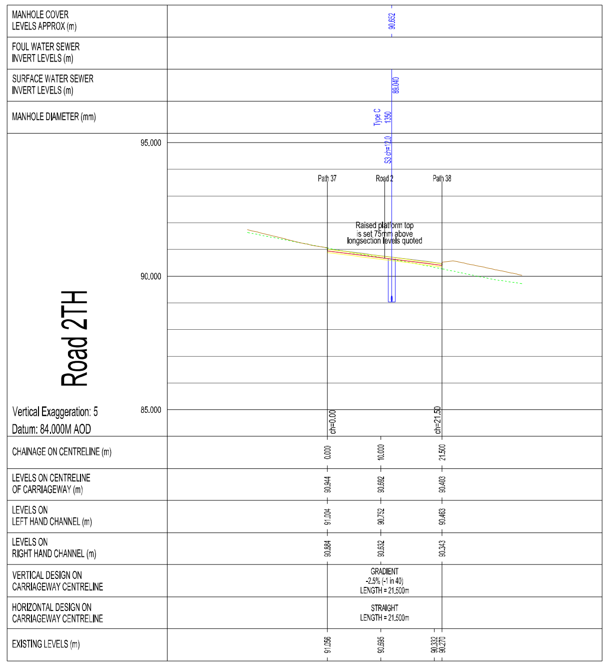
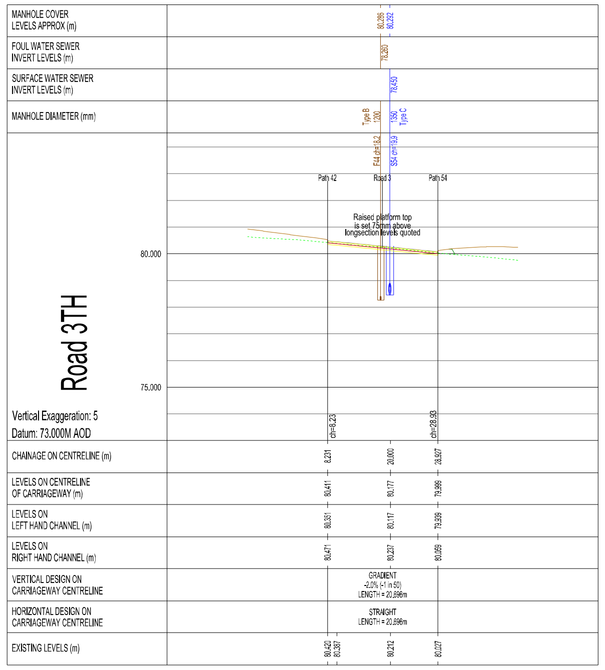
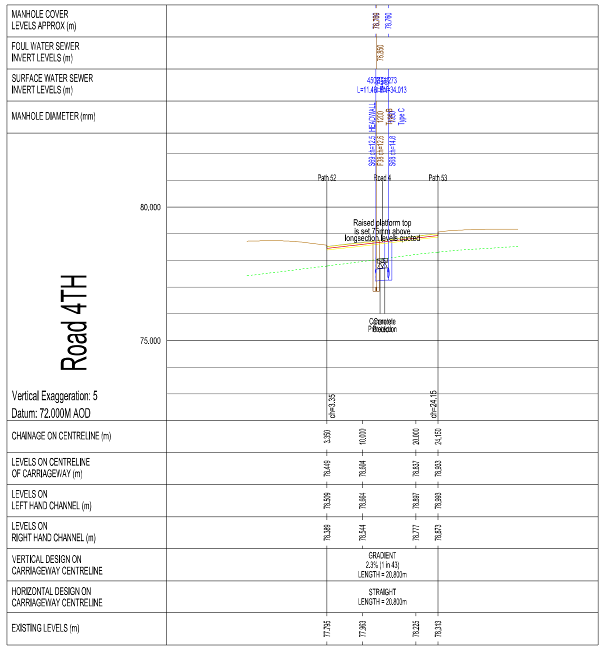
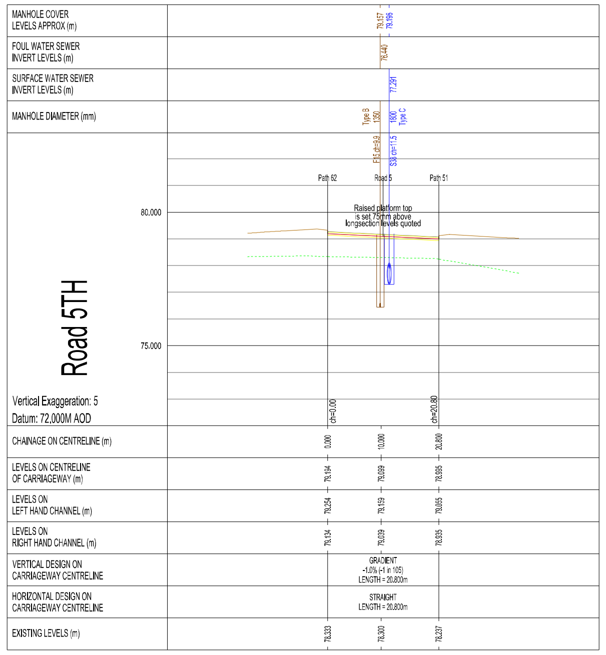
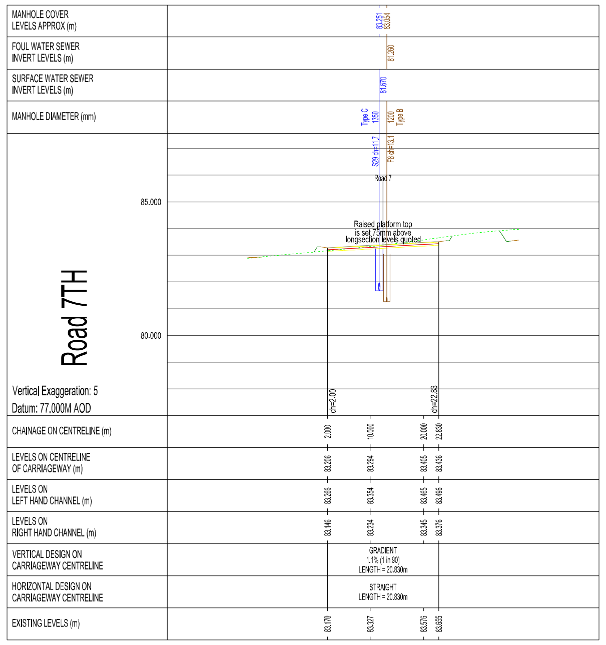
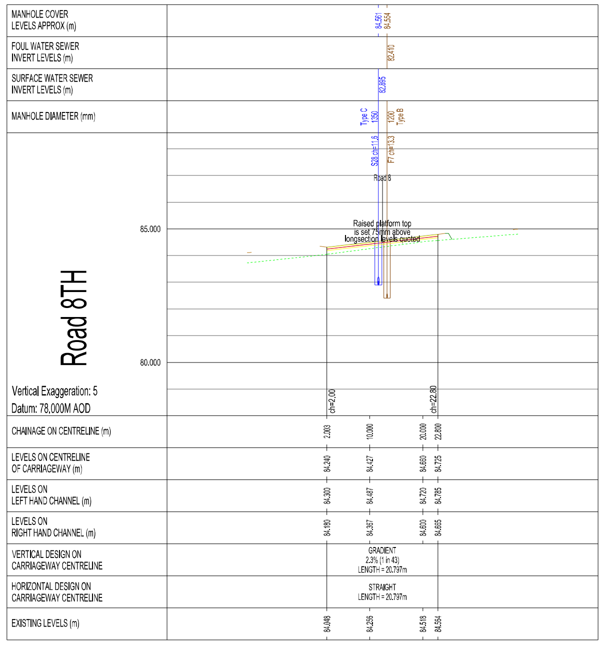

Road 2TH
Vertical Exaggeration: 5
Datum: 84.000M AOD
MANHOLE COVER LEVELS APPROX (m): 90.652
FOUL WATER SEWER INVERT LEVELS (m)
SURFACE WATER SEWER INVERT LEVELS (m): 89.040
MANHOLE DIAMETER (mm): Type C 1350
S3 ch=12.0
95.000
90.000
85.000
Path 37
Road 2
Path 38
Raised platform top is set 75mm above longsection levels quoted
ch=0.00
ch=21.50
CHAINAGE ON CENTRELINE (m): 0.000, 10.000, 21.500
LEVELS ON CENTRELINE OF CARRIAGEWAY (m): 90.944, 90.692, 90.403
LEVELS ON LEFT HAND CHANNEL (m): 91.004, 90.752, 90.463
LEVELS ON RIGHT HAND CHANNEL (m): 90.884, 90.632, 90.343
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE: GRADIENT -2.5% (-1 in 40) LENGTH = 21.500m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE: STRAIGHT LENGTH = 21.500m
EXISTING LEVELS (m): 91.056, 90.695, 90.332, 90.270

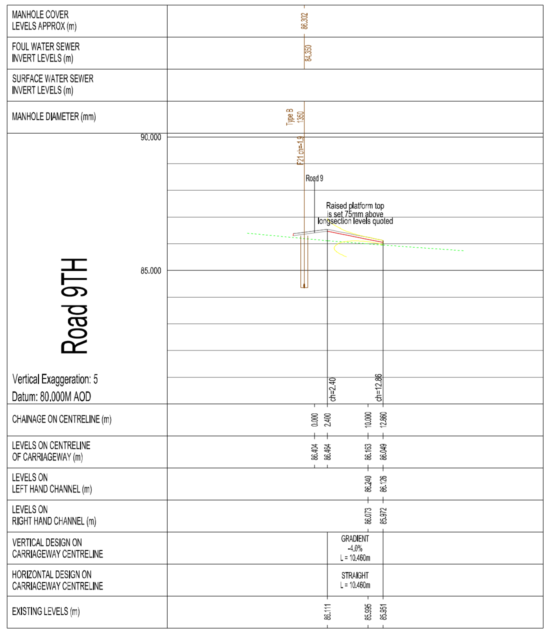

Road 3TH
Vertical Exaggeration: 5
Datum: 73.000M AOD
MANHOLE COVER LEVELS APPROX (m): 80.286, 80.292
FOUL WATER SEWER INVERT LEVELS (m): 78.260
SURFACE WATER SEWER INVERT LEVELS (m): 78.450
MANHOLE DIAMETER (mm): Type B 1200, 1350 Type C
F44 ch=18.2
S54 ch=19.9
80.000
75.000
Path 42
Road 3
Path 54
Raised platform top is set 75mm above longsection levels quoted
ch=8.23
ch=28.93
CHAINAGE ON CENTRELINE (m): 8.231, 20.000, 28.927
LEVELS ON CENTRELINE OF CARRIAGEWAY (m): 80.411, 80.177, 79.999
LEVELS ON LEFT HAND CHANNEL (m): 80.351, 80.117, 79.939
LEVELS ON RIGHT HAND CHANNEL (m): 80.471, 80.237, 80.059
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE: GRADIENT -2.0% (-1 in 50) LENGTH = 20.696m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE: STRAIGHT LENGTH = 20.696m
EXISTING LEVELS (m): 80.420, 80.387, 80.212, 80.027

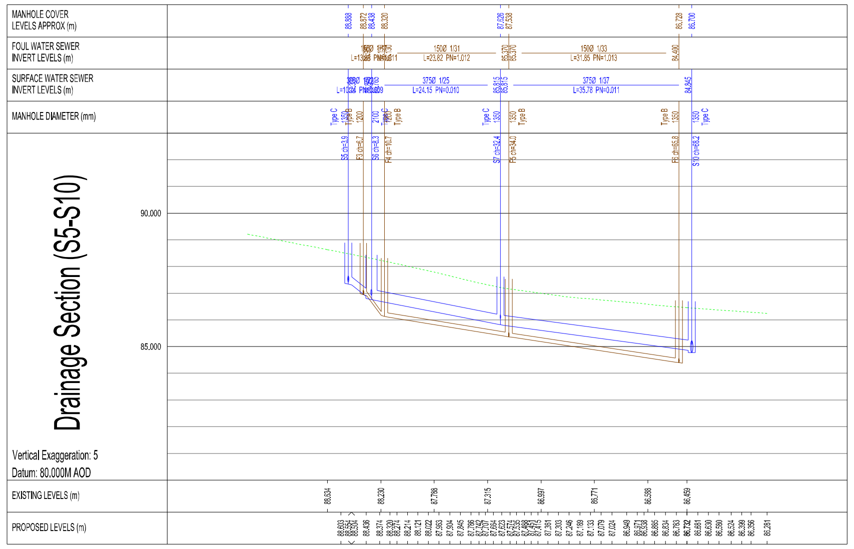

Road 4TH
Vertical Exaggeration: 5
Datum: 72.000M AOD
MANHOLE COVER LEVELS APPROX (m): 78.760, 78.760
FOUL WATER SEWER INVERT LEVELS (m): 76.850
SURFACE WATER SEWER INVERT LEVELS (m): L=11.46 PN=34.013
MANHOLE DIAMETER (mm): HEADWALL, 1200, Type B, 1350, Type C
S69 ch=12.5
F38 ch=12.6
S68 ch=14.8
80.000
75.000
Path 52
Road 4
Path 53
Raised platform top is set 75mm above longsection levels quoted
Concrete Protection
ch=3.35
ch=24.15
CHAINAGE ON CENTRELINE (m): 3.350, 10.000, 20.000, 24.150
LEVELS ON CENTRELINE OF CARRIAGEWAY (m): 78.449, 78.604, 78.837, 78.933
LEVELS ON LEFT HAND CHANNEL (m): 78.509, 78.664, 78.897, 78.993
LEVELS ON RIGHT HAND CHANNEL (m): 78.389, 78.544, 78.777, 78.873
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE: GRADIENT 2.3% (1 in 43) LENGTH = 20.800m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE: STRAIGHT LENGTH = 20.800m
EXISTING LEVELS (m): 77.795, 77.963, 78.225, 78.313


Road 5TH
Vertical Exaggeration: 5
Datum: 72.000M AOD
MANHOLE COVER LEVELS APPROX (m): 79.157, 79.196
FOUL WATER SEWER INVERT LEVELS (m): 76.440
SURFACE WATER SEWER INVERT LEVELS (m): 77.291
MANHOLE DIAMETER (mm): Type B 1350, 1800 Type C
F15 ch=9.9
S38 ch=11.5
80.000
75.000
Path 62
Road 5
Path 51
Raised platform top is set 75mm above longsection levels quoted
ch=0.00
ch=20.80
CHAINAGE ON CENTRELINE (m): 0.000, 10.000, 20.800
LEVELS ON CENTRELINE OF CARRIAGEWAY (m): 79.194, 79.099, 78.995
LEVELS ON LEFT HAND CHANNEL (m): 79.254, 79.159, 79.055
LEVELS ON RIGHT HAND CHANNEL (m): 79.134, 79.039, 78.935
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE: GRADIENT -1.0% (-1 in 105) LENGTH = 20.800m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE: STRAIGHT LENGTH = 20.800m
EXISTING LEVELS (m): 78.333, 78.300, 78.237


Road 7TH
Vertical Exaggeration: 5
Datum: 77.000M AOD
MANHOLE COVER LEVELS APPROX (m): 83.251, 83.054
FOUL WATER SEWER INVERT LEVELS (m): 81.260
SURFACE WATER SEWER INVERT LEVELS (m): 81.670
MANHOLE DIAMETER (mm): Type C 1350, 1200 Type B
S29 ch=11.7
F8 ch=13.1
85.000
80.000
Road 7
Raised platform top is set 75mm above longsection levels quoted
ch=2.00
ch=22.83
CHAINAGE ON CENTRELINE (m): 2.000, 10.000, 20.000, 22.830
LEVELS ON CENTRELINE OF CARRIAGEWAY (m): 83.206, 83.294, 83.405, 83.436
LEVELS ON LEFT HAND CHANNEL (m): 83.266, 83.354, 83.465, 83.496
LEVELS ON RIGHT HAND CHANNEL (m): 83.146, 83.234, 83.345, 83.376
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE: GRADIENT 1.1% (1 in 90) LENGTH = 20.830m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE: STRAIGHT LENGTH = 20.830m
EXISTING LEVELS (m): 83.170, 83.327, 83.576, 83.655


Road 8TH
Vertical Exaggeration: 5
Datum: 78.000M AOD
MANHOLE COVER LEVELS APPROX (m): 84.561, 84.554
FOUL WATER SEWER INVERT LEVELS (m): 82.410
SURFACE WATER SEWER INVERT LEVELS (m): 82.885
MANHOLE DIAMETER (mm): Type C 1350, 1200 Type B
S28 ch=11.6
F7 ch=13.3
85.000
80.000
Road 8
Raised platform top is set 75mm above longsection levels quoted
ch=2.00
ch=22.80
CHAINAGE ON CENTRELINE (m): 2.003, 10.000, 20.000, 22.800
LEVELS ON CENTRELINE OF CARRIAGEWAY (m): 84.240, 84.427, 84.660, 84.725
LEVELS ON LEFT HAND CHANNEL (m): 84.300, 84.487, 84.720, 84.785
LEVELS ON RIGHT HAND CHANNEL (m): 84.180, 84.367, 84.600, 84.665
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE: GRADIENT 2.3% (1 in 43) LENGTH = 20.797m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE: STRAIGHT LENGTH = 20.797m
EXISTING LEVELS (m): 84.048, 84.256, 84.518, 84.564


Road 9TH
Vertical Exaggeration: 5
Datum: 80.000M AOD
MANHOLE COVER LEVELS APPROX (m): 86.302
FOUL WATER SEWER INVERT LEVELS (m): 84.350
SURFACE WATER SEWER INVERT LEVELS (m)
MANHOLE DIAMETER (mm): Type B 1350
F21 ch=1.9
90.000
85.000
Road 9
Raised platform top is set 75mm above longsection levels quoted
ch=2.40
ch=12.86
CHAINAGE ON CENTRELINE (m): 0.000, 2.400, 10.000, 12.860
LEVELS ON CENTRELINE OF CARRIAGEWAY (m): 86.404, 86.464, 86.163, 86.049
LEVELS ON LEFT HAND CHANNEL (m): 86.240, 86.126
LEVELS ON RIGHT HAND CHANNEL (m): 86.073, 85.972
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE: GRADIENT -4.0% L = 10.460m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE: STRAIGHT L = 10.460m
EXISTING LEVELS (m): 86.111, 85.995, 85.951


Drainage Section (S5-S10)
Vertical Exaggeration: 5
Datum: 80.000M AOD
MANHOLE COVER LEVELS APPROX (m): 88.888, 88.872, 88.438, 88.320, 87.626, 87.538, 86.728, 86.700
FOUL WATER SEWER INVERT LEVELS (m): 150Ø 1/31 L=23.82 PN=1.012; 85.370, 85.370; 150Ø 1/33 L=31.85 PN=1.013; 84.400
SURFACE WATER SEWER INVERT LEVELS (m): 375Ø 1/25 L=24.15 PN=0.010; 85.815, 85.815; 375Ø 1/37 L=35.78 PN=0.011; 84.845
MANHOLE DIAMETER (mm): Type C 1350, Type B 1200, 2100 Type C, 1200 Type B, Type C 1350, 1350 Type B, Type B 1350, 1350 Type C
S5 ch=3.9
F3 ch=6.7
S6 ch=8.3
F4 ch=10.7
S7 ch=32.4
F5 ch=34.0
F6 ch=65.8
S10 ch=68.2
90.000
85.000
EXISTING LEVELS (m): 88.634, 88.230, 87.788, 87.315, 86.997, 86.771, 86.588, 86.459
PROPOSED LEVELS (m): 88.603, 88.554, 88.504, 88.436, 88.374, 88.320, 88.274, 88.214, 88.121, 88.022, 87.963, 87.904, 87.845, 87.786, 87.742, 87.707, 87.664, 87.623, 87.574, 87.535, 87.488, 87.451, 87.415, 87.361, 87.303, 87.246, 87.189, 87.133, 87.079, 87.024, 86.949, 86.971, 86.938, 86.885, 86.834, 86.783, 86.732, 86.681, 86.630, 86.580, 86.524, 86.399, 86.356, 86.281

GENERAL NOTES:

1. DO NOT SCALE THIS DRAWING. FOR DISCREPANCIES OR OMISSIONS CONTACT THE ENGINEER PRIOR TO WORK COMMENCING.

2. MATERIALS AND WORKMANSHIP ARE TO COMPLY IN ALL RESPECTS WITH CURRENT PROJECT SPECIFICATIONS, CURRENT CODES OF PRACTICE, AND BUILDING REGULATIONS.

3. THE COPYRIGHT OF THIS DRAWING IS VESTED IN THE ENGINEER AND MUST NOT BE COPIED OR REPRODUCED WITHOUT WRITTEN CONSENT.

4. THE CONTRACTOR IS TO CHECK AND VERIFY ALL BUILDING AND SITE DIMENSIONS, LEVELS AND SEWER INVERT LEVELS AT CONNECTION POINTS BEFORE WORK COMMENCES.

5. THIS DRAWING IS TO READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS AND DRAWINGS ISSUED BY THE ENGINEER, ARCHITECT AND OTHER DESIGN DISCIPLINES.

DRAWING NOTES

1. This drawing is to be read in conjunction with relevant architectural and engineering drawings.

2. Roads footpaths and parking bays which form part of the highway to be adopted under Section 38 of the Highways Act 1980 shall comply with the relevant council highway specification.

3. Sewers to be adopted under Section 104 of the Water Industries Act 1991 shall comply with the Design and Construction Guidance (DCG) for foul and surface water sewers offered for adoption under the Code for adoption agreements for water and sewerage companies operating wholly or mainly in England ("the Code").

4. All existing drainage invert levels, diameters and locations are to be checked by the Contractor prior to the commencement of any proposed drainage work. Any difference between actual and drawn details is to reported immediately.

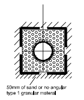
5. Positions of existing services/stautory undertakers apparatus adjacent to or crossing proposed sewers is to be checked by the Contractor prior to starting work.

6. A screen is to be fitted over outgoing pipe to the last new Surface and Foul manholes before entering the existing sewers in accordance with "Sewers for adoption" The screen shall only be removed once the site construction works have been completed.

7. Concrete surround only required on adoptable manholes where there is unstable ground and high water table. Final decision on surround requirements to be made between Drainage Authority and Developer.

8. Concrete cover to be used above pipes where cover depth is less than 1.2m.

**Pollution protection when Foul laid above Storm**
**Impermeable Geotextile membrane to be wrapped around foul sewer where foul sewer is above storm to be laid as per manufactures recommendations.**



| Rev | Description | Date | By | Chkd |
|---|---|---|---|---|
| D | Amended following engineering changes | 15.07.25 | JA | RAA |
| C | Amended to latest layout | 23.05.25 | RA | |
| B | Amended to latest road layout | 16.04.25 | JA | RAA |
| A | Amended to suit latest layout | 27.02.25 | JA | RAA |

Bellway

Drg Status: Preliminary

Client Name: BELLWAY EAST MIDLANDS

Project Name: RATBY

Drawing Title: ROAD & SEWER SECTIONS

| Scale: | Size: | First Issue Date: | Initial: | Chkd: |
|---|---|---|---|---|
| 1:500 | A0 | December 2024 | RAA | JA |

| Project No: | Drawing No: | Rev: |
|---|---|---|
| RED165 | 122 | D |

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