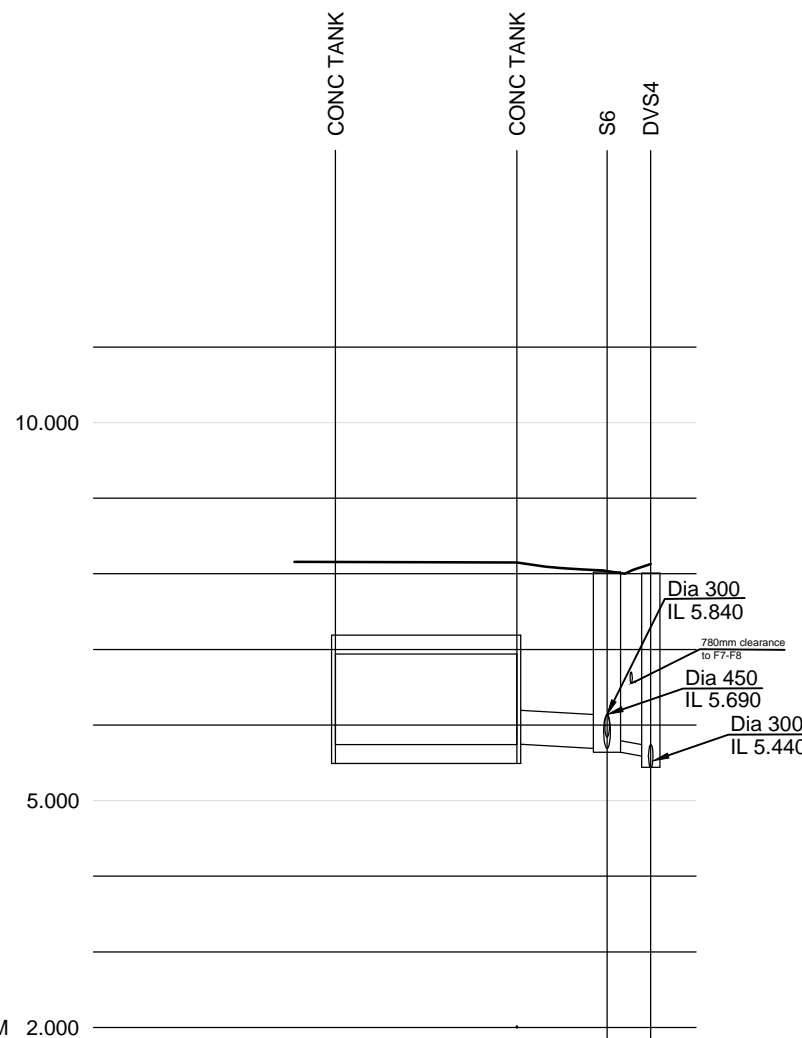


DATUM 6.000		S1	S2
CHAINAGE		0.000	10.419
ROAD LEVEL		9.479	9.674
STORMWATER COVER LEVEL		9.489	9.731
STORMWATER INVERT		7.600	7.200
STORMWATER DETAILS		Pipe 1.000 300 Circular CONC 1 in 26 45KN/m S BED	
STORMWATER LENGTHS		10.420	

LONG SECTION S1 - S2

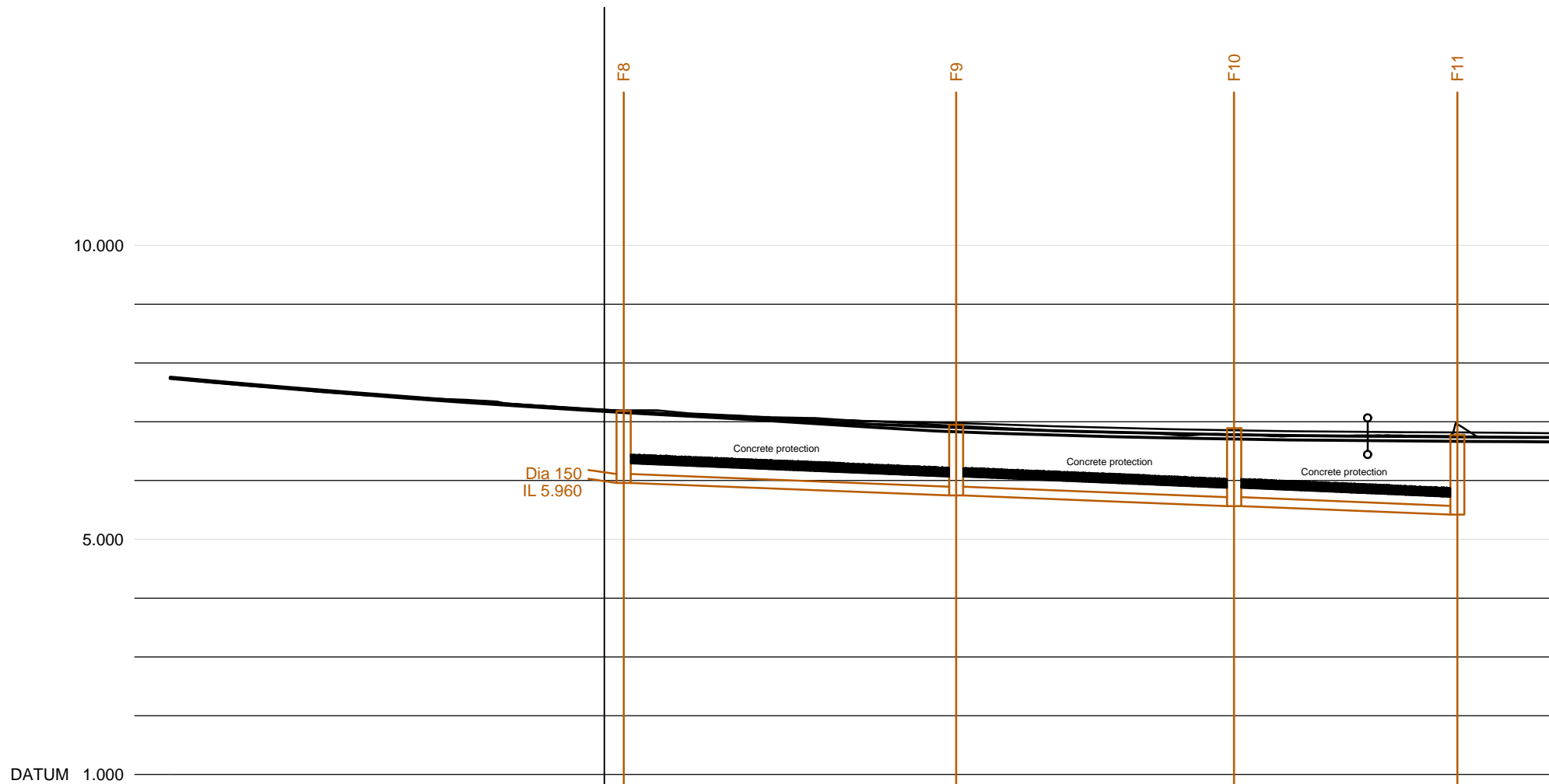
CHAINAGE	2.765	0.001	5.128	6.213	10.000	20.000	21.114	28.280
EXISTING GROUND LEVEL	8.156	8.051		7.728		7.454		7.223
ALIGNMENT LEVEL	8.355			8.053		7.751		7.501
VERTICAL ALIGNMENT	G=-3.018% 1:-33.1							
HORIZONTAL ALIGNMENT								
LEFT HAND CHANNEL	8.131	8.099	7.984	7.833	7.682	7.531	7.432	
RIGHT HAND CHANNEL		8.099	7.984	7.833	7.682	7.531	7.432	
STORMWATER COVER LEVEL	8.410				7.683			
STORMWATER INVERT	5.985				6.180			
STORMWATER DETAILS	Pipe 2.000 Dia 375 Circular CONC 1 in 116 45KN/m S BED							
STORMWATER LENGTHS	25.013							

ROAD 2



GROUND LEVEL			8.216	
STORMWATER COVER LEVEL		8.150	8.150	8.023
STORMWATER INVERT		5.765	5.740	5.690
STORMWATER DETAILS		CONC. TANK 1 in 200	4.000 Dia 450 CONC 1 in 119 54KN/m S BED	Pipe 1.006 Dia 150 Circular Clay 1 in 59 40KN/m S BED
STORMWATER LENGTHS		12.000	5.957	2.890

CONCRETE TANK TO DIVERTED SEWER MANHOLE DVS4



BUTT

CHAINAGE	0.000	5.000	10.000	15.000	17.166	20.000	25.000	30.000	35.000	36.914	38.580	40.000	45.000	50.000	54.570	55.000	60.000	65.000	66.824	70.000	75.000	80.000	80.121	85.000	90.000	90.448	95.000	100.000	101.815	110.000	109.428	117.294	
EXISTING GROUND LEVEL	7.746		7.565		7.421			7.293			7.195			7.086			7.005			6.900			6.819			6.787			6.767		6.891		6.732
FOULWATER COVER LEVEL										7.182										6.948						6.890					6.773		
FOULWATER INVERT										5.960										5.745	5.745					5.567	5.567			5.420			
FOULWATER DETAILS														Pipe 1.007 Dia 150 Circular CLAY 1 in 132 40KN/m S BED										Pipe 1.008 Dia 150 Circular CLAY 1 in 134 40KN/m S BED				Pipe 1.009 Dia 150 Circular CLAY 1 in 131 40KN/m S BED					
FOULWATER LENGTHS														28.453											23.940			19.272					

OFF-SITE FOUL SEWER ALONG BUTT LANE

DO NOT SCALE - IF IN DOUBT ASK

Notes:

Adoptable Drainage Notes

- All adoptable sewer works and materials to be in accordance with "Sewers for Adoption" 6th Edition, the Relevant British/European and Yorkshire Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
- Manhole covers shall/must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
- Cover slabs must carry the BSI Kitemark or will be rejected by Yorkshire Water Inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame a load bearing slab shall be fitted above the cover slab to bring the size down to 600mm X 600mm for the Yorkshire Water specified cover size. Please refer to Concrete pipe Systems Association (CPSA), 'Technical Bulletin' issued Autumn 2004 for Kitemarked cover slab opening sizes.
- Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
- The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
- The chamber size of manholes with more than one connection in them may need to be increased on increment to accommodate connections and bends.
- Manhole schedule setting out depicts notional pipe intersection points. Manhole chambers are to be positioned in a manner to provide minimum benching/landing requirements.
- Sewers must have 5 metres clearance from trees and hedges (also refer to Figure 2.3 on p33 of SFA 6th edition for restrictions on tree planting adjacent to sewers).
- The minimum crushing strength for clay pipes should be as follows: 100mm dia. 40KN/m, 150mm dia. 40KN/m, 225mm dia. 45KN/m and 300mm dia. 72KN/m. The minimum crushing strength for concrete pipes should be - (Class 120 to EN 1916/BS5911-1 2002). Plastic pipes should conform to WIS 4-35-01 and BS EN13476.
- Bedding and backfill material is to conform to the requirements of Water Industry Specification 4-08-02 (Table A2)
- Where depth of cover to top of sewer is less than 1.2m in highways, and less than 0.9m in non-vehicular areas, then concrete concrete slab protection shall be used.
- Location and level of existing sewers and services, including connection points, that are to remain on line of proposed sewers are to be trial holed and recorded prior to commencement of drainage works and the proposed sewer long-section verified.
- Yorkshire Water policy is not to accept Type 'C' brick manholes and 1050mm dia manhole rings. Instead it is preferred that a type 'B1/C' manhole with 1200mm dia or 1500mm dia ring is used, with the opening sited over the channel where depth to pipe soffit is < 1.5m
- No land drainage, watercourses or drainage from retaining walls should be connected to the adopted sewer either directly or indirectly.
- Sulphate resisting cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
- Adoptable sewer pipes are to be laid on maximum 3 metre lengths unless there is a specific operational need to lay longer lengths.
- Sewers to be laid in Class "S" bedding (150mm granular bed & surround). Where depth of cover to top of the sewer is less than 1.2m in highways & verges (or less than 900mm in none vehicular access areas) then a concrete slab should be provided above granular bed & surround.
- Yorkshire Water is not obliged to accept filter/land drainage run-off into the public sewer network or adoptable drainage system (directly or indirectly). An alternative method of disposal of the land drainage run-off will therefore be required & you will have to liaise with the local Authority Land Drainage Section with regard to the disposal of the filter drain/land drainage run-off.
- Adoptable plastic sewer pipes to be BSI Kitemarked (certified to WIS 4-35-01 and BS/EN13476). Adoptable plastic sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and Yorkshire Water would prefer clayware channel in manholes. We have found plastic channels are difficult to set in concrete because they float and a satisfactory finish cannot be obtained on the benching.
- Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitably sized to accommodate standard lifting keys. Screw down covers are not acceptable.
- The clearance on the crossover points (min 300mm) between the surface water, foul sewers, rising main and other services should be sufficient clearance to provide 150mm granular bed and surround around both pipes.
- New connections to the public sewer should be connected soffit-soffit unless stated otherwise.

P1	Preliminary Issue	28.08.19
Rev.	Content	Date

Client	Midland Construction Ltd		
Project	Butt Lane Snaith		
Title	Long Sections Sh2		
Drawn	Date	Drg. No.	Rev.
HM	08.19	7849/024	P1
Scale	Checked		
1:250	JL		