

N O T E S

1. This drawing is to be read in conjunction with all relevant ARP and Architects drawings and project specifications.
2. Survey related to topographical survey supplied by Minerva Works Developments Ltd.
3. Co-ordinates to be checked prior to works commencing. Any discrepancies to be brought to the immediate attention of ARP.

Yorkshire Water General Notes

1. All adoptable sewer works and material to be in accordance with Sewerage Sector Guidance Design and Construction Guidance [Code for Adoption]. The Relevant British/European and Yorkshire Water's Standards/Requirements/Local Practice for the Adoption of Small Submersible Foul and Surface Water Pumping Stations and Kitemarked.
2. 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.
3. Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
4. Yorkshire Water is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or in-directly). An alternative method of disposal of the land drainage run-off will therefore be required and 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.
5. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
6. Sewers must have 5 metres clearance from trees and hedges or the width of the canopy at mature height.
7. Sewers to be laid in Class "S" Bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in non-vehicular access areas) then a concrete slab should be provided above granular bed and surround.
8. There must be enough clearance at crossovers to accommodate bedding to both pipes, approx. 300mm : if crossover is near the rocker then the clearance needed may be increased.
9. Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
10. 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.
11. 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.
12. Yorkshire Water policy is that Type "C" brick manholes and 1050mm dia. manhole rings are not preferred. Instead it is preferred that you use a type "B" manhole with 1200mm dia or 1500mm dia rings, with the opening sited over the channel where depth of cover to pipe soffit is 1 - 1.5m.
13. 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.

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Code	Inverts	Diams		Manhole	Cover
S1	62.550		1 Lateral	61.025	150	1200	C	D400
E. 957.403	2 Lateral		61.025	150				
N. 3376.802	1.375		0 1.000	60.950	225			
S2	63.530		1 1.000	60.885	225	1800	B	D400
E. 990.021	2 Lateral		60.760	150				
N. 3345.994	3 Lateral		60.760	150				
	4 Lateral		60.760	150				
	2.620		0 1.001	60.535	375			
S3	64.350		1 1.001	60.311	375	1800	A	D400
E. 1015.577	2 Lateral		60.536	150				
N. 3315.829	3.664		0 1.002	60.311	375			
S4	63.550		1 1.002	60.191	375	1500	B	D400
E. 1001.556	2 Lateral		60.416	150				
N. 3304.003	2.984		0 1.003	60.191	375			
S5	62.850		1 Lateral	61.275	150	1500	C	D400
E. 964.817	2 Lateral		61.275	150				
N. 3299.980	1.425		0 2.000	61.200	225			
S6	62.490		1 2.000	61.016	225	1800	B	D400
E. 985.291	2 Lateral		60.016	150				
N. 3283.632	2.099		0 5.005	60.016	375			
S7	62.050		1 1.004	59.500	375	1800	B	D400
E. 966.512	2 Lateral		59.725	150				
N. 3260.214	2.175		0 1.005	59.500	375			

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Code	Inverts	Diams		Manhole	Cover
F22	64.500		1 Lateral	63.150	150	1200	C	D400
E. 1018.686	2 Lateral		63.150	150				
N. 3314.853	1.200		0 1.000	63.150	150			
F23	63.400		1 1.000	62.050	150	1500	C	D400
E. 986.133	2 Lateral		62.050	150				
N. 3353.449	3 Lateral		62.050	150				
	4 Lateral		62.050	150				
	1.200		0 1.001	62.050	150			
F24	62.630		1 1.001	60.473	150	1200	B	D400
E. 958.461	2 Lateral		60.473	150				
N. 3379.585	2.007		0 1.002	60.473	150			
F25	62.400		1 1.002	60.380	150	1200	B	D400
E. 951.419	2 Lateral		60.380	150				
N. 3382.163	1.870		0 Existing	60.305	225			
F26	62.860		1 Lateral	61.510	150	1200	C	D400
E. 966.963	2 Lateral		61.510	150				
N. 3300.449	1.200		0 2.000	61.510	150			
F27	62.470		1 2.000	61.120	150	1500	C	D400
E. 988.504	2 Lateral		61.120	150				
N. 3283.250	1.200		0 2.001	61.120	150			
F28	62.040		1 2.001	60.690	150	1200	C	D400
E. 971.550	2 Lateral		60.473	150				
N. 3262.015	1.200		0 2.002	60.690	150			
F29	61.700		1 2.002	60.255	150	1200	C	D400
E. 961.936	2 Lateral		60.255	150				
N. 3252.182	1.295		0 Existing	60.180	225			

Rev	By	Date	Revision	Issued for approval	MI	MI
					Chk	Apvd

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TITLE	
PARCEL 4 MANHOLE SCHEDULES	
PROJECT	
CROSSLEY LANE, HUDDERSFIELD	
CLIENT	
MINERVA WORKS DEVELOPMENTS LTD	
DRAWING STATUS	
PRELIMINARY	
Scale	Date
N/A @ A1	SEP 24
Drawn	Chk.
DJG	MI
Drg. No.	Rev
0906/03/11.05	/

SUBJECT TO THE APPROVAL OF ALL RELEVANT AUTHORITIES