Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit			Code	Inverts	Diams		Manhole	Cover
S1	58.946	GULLY	1	DS5	55.365	150	1200	C	D400
	1.211		2	DS6	55.365	150			
E. 435904.147		0	0	3.000	55.290	225			
N. 403697.472									
S2	58.440	2 1 3 0	1	DS1	57.085	150	1200	C	D400
	1.205		2	1.000	57.010	225			
E. 435908.412			3	DS2	57.085	150			
N. 403687.454			0	1.001	57.010	225			
S3	57.322	GULLY 1 2 0	1	DS3	55.620	150	1200	B	D400
	1.552		2	1.001	55.545	225			
E. 435908.329			0	1.002	55.470	300			
N. 403663.488									
S4	57.003	2 1 0	1	2.000	55.060	225	1500	B	D400
	1.718		2	1.002	54.985	300			
E. 435929.701			0	1.003	54.985	300			
N. 403661.312									
S5	54.071	1 0	1	1.003	52.105	300	1350	B	D400
	1.669		0	1.004	52.030	375			
E. 435926.289									
N. 403628.044									
S6	53.664	2 GULLY GULLY 1 0	1	1.004	51.930	375	2400	B	D400
	1.362		2	DS4	52.155	150			
E. 435922.976			0	1.005	50.805	1500			
N. 403604.478									

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit			Code	Inverts	Diams		Manhole	Cover
S7	56.842	GULLY 1 2 0	1	DS5	55.365	150	1200	C	D400
	1.327		2	DS6	55.365	150			
E. 435835.710			0	3.000	55.290	225			
N. 403666.848									
S8	56.200	1 2 0	1	3.000	54.750	225	1200	C	D400
	1.225		2	DS7	54.825	150			
E. 435841.690			0	3.001	54.750	225			
N. 403652.120									
S9	55.631	1 2 0	1	3.001	54.450	225	1200	C	D400
	0.956		2	DS8	54.525	150			
E. 435841.388			0	3.002	54.375	300			
N. 403638.941									
S10	54.534	1 2 3 0	1	4.001	50.880	1500	3000	B	D400
	2.154		2	DS9	52.230	150			
E. 435840.781			3	3.002	52.080	300			
N. 403612.533			0	3.003	50.880	1500			
S11 FLOW CONTROL	53.952	2 1 3 0	1	1.005	50.700	1500	3000	A	D400
	3.002		2	DS10	52.050	150			
E. 435893.113			3	3.003	50.700	1500			
N. 403607.206			0	1.006	50.650	300			
S12	54.180	1	1	1.006	50.575	300	1200	A	D400
	3.305								
E. 435891.644									
N. 403594.691									

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit			Code	Inverts	Diams		Manhole	Cover
S10A	54.662	1 0	1	TANK 4.000	51.845	300	3000	B	D400
	2.472								
E. 435830.546			0	4.001	50.915	1500			
N. 403613.576									
S4A	56.637	GULLY 2 GULLY 1 0	1	DS11	55.230	150	1200	C	D400
	1.257		2	DS12	55.230	150			
E. 435945.485			0	2.000	55.155	225			
N. 403659.704									

Note
Position and depth of existing surface water sewer to be confirmed. Outfall chamber / connection to be amended to suit.

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit			Code	Inverts	Diams		Manhole	Cover
F1	58.572	1 2 0	1	DF1	56.600	150	1200	B	D400
	1.822		2	DF2	56.600	150			
E. 435909.723			0	1.000	56.600	150			
N. 403690.519									
F2	57.359	1 2 0	1	DF3	54.920	150	1200	B	D400
	2.289		2	1.000	54.920	150			
E. 435911.059			0	1.001	54.920	150			
N. 403666.017									
F3	56.639	1 2 0	1	DF5	54.600	150	1200	B	D400
	1.889		2	DF6	54.600	150			
E. 435947.281			0	2.000	54.600	150			
N. 403661.122									
F4	57.008	1 2 0	1	1.001	54.400	150	1200	B	D400
	2.458		2	2.000	54.400	150			
E. 435931.358			0	1.002	54.400	150			
N. 403662.744									
F5	54.083	1 2 0	1	1.002	52.665	150	1200	C	D400
	1.268		2	DF7	52.665	150			
E. 435927.291			0	1.003	52.665	150			
N. 403629.537									
F6	55.503	1 0	1	DF8	53.520	150	1200	B	D400
	1.833								
E. 435839.737			0	3.000	53.520	150			
N. 403635.398									

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit			Code	Inverts	Diams		Manhole	Cover
F7	54.650	1 2 0	1	DF9	53.270	150	1200	C	D400
	1.230		2	3.000	53.270	150			
E. 435839.542			0	3.001	53.270	150			
N. 403615.662									
F8	53.991	1 2 0	1	3.001	52.570	150	1200	C	D400
	1.271		2	DF10	52.570	150			
E. 435894.663			0	3.002	52.570	150			
N. 403609.312									
F9	53.632	2 1 3 0	1	1.003	51.370	150	1200	B	D400
	2.112		2	3.002	51.370	150			
E. 435925.562			3	DF11	51.370	150			
N. 403605.752			0	1.004	51.370	150			
FOutfall	53.965	1	1	1.004	51.245	150	1200	B	D400
	2.570								
E. 435924.389									
N. 403593.597									

Note
Position and depth of existing combined sewer to be confirmed. Outfall chamber to be amended to suit.

1. To be read in conjunction with Eastwood and Partners drawings prefixed 48404.
2. All pipes shall be either:
   A - 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
   B - PVC (certified to WIS 4-35-01 & BS/EN 13476)
   C - Class 120 concrete to BS 5911-1:2002/EN 1916.
3. All pipes should always connect soffit to soffit unless noted otherwise.
4. All sewers to have BSI kitemark status (certified to WIS 4-35-01 & BS EN 13476). Maximum pipe length to be 3m. Plastic channel sections in manholes are not acceptable, Clay channel sections shall be used.
5. 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 none vehicular access areas) then a concrete slab should be provide above granular bed and surround.
6. Manhole covers shall/must have a clear opening of 600 and shall be class D400 to BS EN 124 with 150 deep frames in highways.
7. 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.
8. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
9. Sewers must have 5m clearance from trees and hedges
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. Fill ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
12. All insitu concrete to be designated mix FND2 to BS 8500-1 unless agreed otherwise.
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 & Partners.
14. The chamber size of manholes with more than one connection in them may need to be increased 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. 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 loading bearing slab should 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.
17. All foul lateral sewers and drains to be 150Ø unless noted otherwise.
18. 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.
19. 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.
20. 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.
21. All adoptable sewer works and material to be in accordance with "Code for Adoption". The Relevant British/European and Yorkshire Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
22. 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.
23. Sulphate resistant cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
24. Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
25. 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 that plastic channels are difficult to set in concrete because they float and a satisfactory finish cannot be obtained on the benching.
26. The clearance of the crossover points (min 300mm) between the surface water, foul sewers, rising main and other services should be sufficient clearance to provide 150mm surround of a certain mm that exceeds this (200mm).
27. All adoptable laterals to be 150Ø and VC unless stated otherwise

REV	DESCRIPTION	SIG	CHK	DATE
P01	First issue.	DAB	CH	30.08.2024

HOOBER HOMES

WEST STREET, WOSBROUGH, BARNSLEY

PRELIMINARY LEVELS LAYOUT

Eastwood
CONSULTING ENGINEERS
St Andrew's House
23 Kingfield Road
Sheffield, S11 9AS
T: 0114 255 4554
E: mail@eastwoodce.com
eastwoodce.com

ECE PROJECT No	SCALE AT A1	STATUS	SUITABLE FOR
48404	NTS	S0	Initial

DRAWING NUMBER: 48404 - ECE - XX - XX - DR - C - 0046 (Project - Originator - Zone - Level - Type - Role - Number) REV: P01