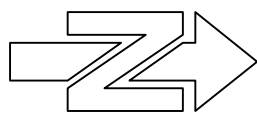


Existing manhole will need to be inspected with a VM Inspector to check that it can accommodate the new connection and to check if any remedial works are required. It may be necessary to reconstruct the manhole at the developer's expense.



INFORMATION WITHIN THIS DRAWING IS NOT NECESSARILY PROPORTION TO SCALE. ALWAYS USE FIGURED DIMENSIONS AND CO-ORDINATES - IF IN DOUBT, ASK.

NOTES

- All pipes shall be either:
A - Vitrified clay to BS EN 205 with a minimum crushing strength as below:-
225 kN - 45 kN/m
300 kN - 72 kN/m
B - PVC certified to MS 4-5S-01 & 5S as per 15470
C - Class 120 concrete to BS 5911-1:2002 EN 1916.
- All pipes should always connect uphill to downhill unless noted otherwise.
- All sewers to have BS1 Mitermark status (certified to MS 4-5S-01 & 5S EN 15470). Minimum pipe length to be 3m. Plastic channel sections in manholes are not acceptable. Clay channel sections shall be used.
- Sewers to be laid in class 3 bedding (150mm granular bed and surround). Where depth of cover to surface is 150mm concrete also should be provided above granular bed and surround. Bedding and backfill material to conform to MS 4-08-02 Table 2 for PVC pipes.
- Manhole covers shall have a clear opening of 600 and shall be class D400 to BS EN 124 with 150 deep frames in highways. Covers to have sloped flanges and are to be bedded or sealed with 1:3 mortar haunching.
- Pipes entering manholes and road gullies shall have a flexible joint within 600 of the inside the manhole or gully fitting with a short section pipe.
- The acceptable sewers should be a minimum of 1m and manholes 0.5m from left faces and service margins. Sewers must have 5m clearance from faces and buildings (refer to Figure 2.3 page 33 in 'Sewers For Adoption' BS Edition for restrictions on tree planting adjacent to sewers).
- All tree roots and paved areas shall be backfilled with Type 1 DDT granular sub-base material or other granular material approved by the highway authority.
- Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
- All falls concrete to be stippled (in accordance with BS 5500-1) unless agreed otherwise.
- 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.
- The chamber size of manholes with more than one connection in them may need to be increased by an increment to accommodate the connections and bends.
- Cover levels are indicative only. Covers to be set to suit camber/gradients of existing and proposed roads.
- Cover slabs must carry the BS1 Mitermark or will be rejected by the Yorkshire Water Inspector. Where the clear opening of the Mitermarked product is different to that of the cover and frame, a lead casting slab should be fitted above the cover slabs to bring the size down to 600x600, refer to CPSE1 Technical Bulletin issued autumn 2004 for illuminated cover slab opening sizes.
- All surface water lateral sewers and drains to be 1500 unless noted otherwise. All foul lateral sewers and drains to be 1000 unless noted otherwise.
- Yorkshire Water policy is not to accept Type 'C' PVC manholes and 1050mm manhole rings. Instead use Type 'B' manhole with 1200mm or 1500mm rings, with the opening clear over the chamber where depth of cover or pipe shall be 1 - 1.5m.
- Manhole covers must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
- All adoptable sewer works and materials to be in accordance with Sewers for Adoption 6th Edition, the relevant British/European and Yorkshire Water standards/requirements/standards to the Mechanical and Electrical specification and Alternatives.

OFF SITE SEWER



Height

273.7m

- Proposed gully
- Proposed highway drain
- Proposed foul water sewer
- Proposed foul water lateral
- Proposed foul water lateral connection
- Proposed sewer easement
- Proposed indicative service margin

DRAWN

CHECKED

RH

DATE

11.04.17

CH

DRAWING NUMBER

40600/013

C

REV

1:300

PRELIMINARY

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DRAINAGE LAYOUT

CROSS LANE:
SCHOLES, HOLMFIRTH

MILLER HOMES

REV	DESCRIPTION	SIG	CHK	DATE
C	Highway soakways repositioned to suit planning department comments.	RJ	CH	26.06.17
B	Revised to suit latest site layout. Finished floor levels to Pits 38 and 39 garage amended.	RJ	CH	07.06.17
A	First Issue.			