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



OFFSITE DRAINAGE
(SCALE 1:1000)

FOR OFFSITE DRAINAGE SEE INSERT ABOVE

NOTES

1. 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)
   - C - Class 120 concrete to BS 5911-1:2002/EN 1916.
2. All pipes should always connect soffit to soffit unless noted otherwise.
3. 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.
4. Sewers to be laid in Class "S" bedding (150mm granular bed and surround). Where depth of cover to soffit is less than 1.2m in highways and verges (or less than 900mm in none vehicular access areas) then a reinforced 150mm concrete slab should be provided above granular bed and surround. Bedding and backfill material to conform to WIS 4-08-02 (Table 2) for PVC pipes.
5. 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 closed keyways and are to be bedded on steel shims with 1:3 mortar haunching.
6. 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.
7. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
8. Sewers must have 5m clearance from trees and hedges (refer to Figure 2.3 page 33 in "Sewers For Adoption"6th Edition for restrictions on tree planting adjacent to sewers).
9. 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.
10. Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
11. All insitu concrete to be designated mix FND2 to BS 8500-1 unless agreed otherwise.
12. 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.
13. 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.
14. Cover levels are indicative only. Covers to be set to suit camber/gradient of existing and proposed roads.
15. Cover slabs must carry the BSI Kitemark or will be rejected by the Yorkshire Water Inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a load bearing slab should be fitted above the cover slab to bring the size down to 600x600, refer to CPSA Technical Bulletin issued autumn 2004 for Kitemarked cover slab opening sizes.
16. All surface water lateral sewers and drains to be 150Ø unless noted otherwise. All foul lateral sewers and drains to be 100Ø unless noted otherwise.
17. Yorkshire water policy is not to accept Type "C" brick manholes and 1050mmØ manhole rings. Instead use Type "B" manhole with 1200mmØ or 1500mmØ rings, with the opening sited over the channel where depth of cover to pipe soffit is 1-1.5m.
18. Manhole covers must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.

REV	DESCRIPTION	SIG	CHK	DATE
A	First Issue.			

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YORKSHIRE WEST

LAND OFF CARRS LANE, CUDWORTH,
BARNSLEY, SOUTH YORKSHIRE

DRAINAGE PROPOSALS

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SCALE WHEN PLOTTED AT A1	DRAWING STATUS
1:1000	INFORMATION

DRAWN	CHECKED	DATE	DRAWING NUMBER	REV
RJ	CH	27.04.17	39094/1000	A