

N O T E S

ATTENTION IS DRAWN TO THE REQUIREMENTS OF THE CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS 2015 AND THE DUTIES AND RESPONSIBILITIES CONTAINED THEREIN.

ALL DESIGNS ARE SUBJECT TO THE APPROVAL OF ALL RELEVANT AUTHORITIES.

1. No services are to be sited directly over, or within 1m of, an adoption sewer or manhole.
2. Private drainage connections to adoptable sewers to be via 45° junction.
3. Off site manholes already built must have invert levels checked prior to connection to the off site drainage.
4. Any connections to existing sewers/manholes are to be supervised by Yorkshire Water.
5. All connections to proposed public sewers to be minimum 150mm.
6. Any sand drain or water course on site to be diverted as not to pass under proposed buildings. Diversion to be approved and inspected on site by the local Authority.

7. All adoptable sewer works and materials to be in accordance with Sewerage Sector Guidance (SSG), the relevant British/European and the adopting Water Authority standards/requirements/standards to the Mechanical and Electrical Specification and Kitemarked.
8. 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.
9. Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
10. Cover sills must carry the BS Kitemark or may be rejected by Yorkshire Water Inspector. Where the clear opening of the Kitemarked cover is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the slab down to 600/600mm for Yorkshire Water specified cover size. Please refer to the Concrete Pipe Systems Association (CPSA) Technical Bulletin issued Autumn 2004 for Kitemarked cover opening sizes.
11. The adoptable sewers should be a minimum of 1m and manholes 1.5m from kerb faces and service margins.
12. Sewers must be 5m minimum clearance from trees and hedges. (please also refer to Figure 2.3 on page 33 in "Sewers for Adoption" 6th Edition for restrictions on tree planting adjacent to sewers).
13. Sewers to be laid in Class "D" 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 800mm in non vehicular access areas) then a concrete slab should be provided above the granular bed and surround.
14. Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
15. Adoptable plastic sewer pipes to be BS Kitemarked (certified to MS 4-35-01 and BS EN 13476). Adoptable sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to be longer.
16. Plastic channel sections in manholes are not acceptable and covers is preferable. Plastic channels are difficult to set in concrete and a satisfactory finish cannot be obtained on the bedding.
17. The chamber size of manholes with more than one connection in them may need to be increased or increased in increments to accommodate the connections and bends.
18. Yorkshire Water's policy is not generally to accept Type "C" back manhole and 100mm dia manhole rings. Instead it is preferred that you use a type "D" manhole with 100mm dia or 150mm dia rings, with the opening sited over the channel where depth of cover to pipe soft is 1-1.5m.
19. If plastic pipes are to be used then the following should apply:
 - a. All adoptable covers to be BS Kitemark (certified to MS 4-35-01).
 - b. Bedding and backfill material to conform to the requirements of Water Industry Specification 4-08-02 (Table A2).
20. Where plastic pipes are proposed for adoptable sewers, structural calculations for the plastic pipes and a site investigation report to prove that the ground condition is suitable for the plastic pipes are to be produced.
21. Where plastic pipes are retained into the ground prior to getting full technical approval, the developer must provide a CCTV survey of the prospectively adoptable sewers and a deformation test (light-line level) of the plastic pipes.
22. Demarcation chambers to be a min. 450mm chamber for 100mm foul & 150mm surface water pipes up to 1.2m deep. For depths greater than 1.2m, restricted access opening to 300mm is required for safety reasons.
23. Maximum depth of demarcation chamber to be 3m, where depth exceeds 3m, manhole to be constructed as type B manhole.
24. Where a BS125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitable to accommodate standard lifting keys. Screw down covers are not acceptable.
25. Yorkshire Water is not obliged to accept filter drains/land drainage runoff into the public sewer network or adoptable drainage system (directly or in-direct). An alternative method of disposal of the land drainage runoff will therefore be required and you will have to liaise with the Land Drainage Authority/Land Drainage Section with regard to the disposal of the filter drain/land drainage runoff if required.
26. Supralite resisting cement (C20-D2) and precast concrete products must be used or a laboratory report proving that such products are not necessary.
27. Strength of vitrified clay pipes (if used) to be 40kN/m for 1000, 40kN/m for 1500, 45kN/m for 2250 and 70kN/m for 3000. All concrete pipes to be Class 120 concrete to EN 12618:2011-12002.
28. All levels of existing drainage to be confirmed prior to work commencing on site.
29. The contractor must allow for any level required for road and sewer opening permits, sewer connections and make the appropriate applications.
30. There should be enough clearance to accommodate the bedding for both pipes, approx 100mm if crossover is near kerb then the clearance needed may be increased.

FLOW CONTROL DATA S23

MANUFACTURER	HYDRO INTERNATIONAL
TELEPHONE	01275 878371
TYPE	HYDRO-BRAKE OPTIMUM
FLOW/HEAD	9.1 l/s @ 1.900m
HYDRO REF	SH-0126-9100-1900-9100

To be installed in accordance with manufacturers specifications and recommendations before the manhole cover slab is installed.

Drainage Design Criteria
Design parameters are based on the latest information available and may be subject to change of detailed design / planning approval stage.

Climate Change Allowance (%)	40%
Urban Creep (%)	10%
CV Values (Summer/Winter)	0.75/0.84

1. Updated basin size to suit new layout. Imp. areas. M
2. Updated to suit planning layout 1187-FA-3-0310. M
3. Minor updates. M
4. Update for approval. M
5. Revision. C/A

CONTOUR IN THIS AREA FROM LIDAR DATA AND TOPOGRAPHICAL SURVEY REQUIRED TO CONFIRM LEVELS AND DESIGN.

Yorkshire Water / undertaker will require future access to the attenuation basin and flow control manhole.

Adoptable headwall pipe (subject to basin) refer to headwall/basin detail drawing.

Level access track set at 119.200m AOD. Basin approx 1.30 metres in depth with allowance for 300mm freeboard.

Attenuation basin to be suitably fixed with CCL, refer to basin details drawing.

PROPOSED SURFACE WATER ATTENUATION BASIN (1 in 100 Year + 30% Storm Event). Where Required - 200mm (detached headwall) Max Water Depth - 0.84m. 1 in 3 rain storm - 300mm headwall (above normal max water depth of 1m). Fixing and site required to basin - to prohibit specification.

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