

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

K E Y

- Gully
- Adoptable Storm Demarcation Chamber
- Adoptable Foul Demarcation Chamber
- Adoptable Storm Water Lateral Drain
- Adoptable Foul Water Lateral Drain

- Yorkshire Water General Notes**
1. All adoptable sewer works and material to be in accordance with 'Codes for Adoption', the relevant British/European and Yorkshire Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
 2. Manhole covers shall 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. Cover slabs must carry the BS 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 loading bearing slab should be fitted above the cover slab to bring the size down to 600x600mm for the Yorkshire Water specified cover size. Please refer to the Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued autumn 2004 for Kitemarked cover slab opening sizes. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
 5. Sewers must have 5 metres 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).
 6. 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 provided above the granular bed and surround.
 7. Adoptable plastic sewer pipes to be BS1 Kitemarked (Certified to WS 4-35-01 and BS/EN13476). Adoptable sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer.
 8. Plastic channel sections in manholes are not acceptable and clayware is preferable. Plastic channels are difficult to set in concrete and a satisfactory finish cannot be obtained on the benching.
 9. The chamber size of manholes with more than one connection in them may need to be increased to accommodate the connections and bends.
 10. Yorkshire Water policy is not to accept Type 'C' brick manhole and 1050mm dia manhole rings. Instead it is preferred that you use a type 'B' manhole with 1200mm dia or 1500mm dia. rings, with the opening sized over the channel where depth of cover to pipe soffit is 1-1.5m.
 11. Surface water and foul rising mains to be provided with marker tape above the rising mains.
 12. If plastic pipes are to be used then the following should apply-
 - a. All adoptable sewers to be BS1 Kitemark (certified to WS 4-35-01).
 - b. Bedding and backfill material to conform to the requirements of Water Industry Specification 4-08-02 (Table A2)
 13. 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.
 14. Where plastic pipes are installed into the ground prior to getting full technical approval, the developer must provide a CIV survey of the prospectively adoptable sewers and a deformation test (Light-Line test) of the plastic pipes.
 15. Demarcation chambers to be a min. 450mmØ chamber for 100mmØ foul & 150mmØ surface water pipes up to 1.2m deep. For depths greater than 1.2m, restricted access water pipes to 350mm is required for safety reasons.
 16. Maximum depth of demarcation chamber to be 2m, where depth exceeds 2m, manhole to be constructed as type B manhole.
 17. 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.
 18. Yorkshire Water is not obliged to accept filter drain/land drainage runoff into the public sewer network or adoptable drainage system (directly or indirectly). 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 is required.
 19. Sulphate resisting cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
 20. Strength of vitrified clay pipes (if used) to be 40KN/m for 100Ø, 40KN/m for 150Ø, 45KN/m for 225Ø and 72KN/m for 300Ø. All concrete pipes to be Class 120 concrete to EN 1916/BS 5911-1:2002.
 21. All levels of existing drainage to be confirmed prior to work commencing on site.
 22. The contractor must allow for any fee's required for road and sewer opening permits, sewer connections and make the appropriate applications.
 23. There should be enough clearance to accommodate the bedding for both pipes, approx 300mm: if crossover is near rocker then the clearance needed may be increased.

A	MI	21.02.23	Amended to suit 900mm dia. pipe option		MI
/	MI	01.02.23	Issued for approval		RSJ
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TITLE
SECTION 104 AMENDMENTS

PROJECT
HEATHFIELD LANE BIRKENSHAW

CLIENT
SLJ WAKEFIELD LTD

DRAWING STATUS
PRELIMINARY

Scale	Date	Drawn	MI
1:200 @ A1	NOV 22	Chk.	RSJ
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