

N O T E S

Yorkshire Water General Note:

1. 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.
2. Manhole covers shall must have a opening of 600mm and shall be ass D400 to BS EN 124 with 150mm deep frames in highways.
3. Flat ground manholes shall be designed to allow for future 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 ear 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.
5. The minimum cover/sewer depth to be a minimum of 1m and manholes 0.5m from kerb footings and service margins.
6. Sewers must have 5 metre 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).
7. Sewers to be laid in ass "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 non vehicular access areas) then a concrete slab should be provided above the granular bed and surround.
8. 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 lengths.
9. Plastic sewer connections in manholes are not acceptable and UPVC/are is preferable. Plastic channels are difficult to test in concrete and a satisfactory result cannot be obtained on the benching.
10. 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.
11. Yorkshire Water policy is not to accept type "C" brick manhole and 1000mm dia manhole rings. Instead it is preferred that you use a type "B" manhole with 1200mm dia and 1500mm dia. rings, with the opening sealed above the chamber with a depth of 100mm to pipe.
12. Surface water and foul rising mains to be provided with marker tape above the rising mains.
13. If plastic pipes are to be used then the following should apply:-
 - a. All adoptable sewers to be BS1 Kitemarked (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)
14. Where plastic pipes are proposed adoptable sewers, structural calculations for the proposed sewer should be investigated and provided to prove that the ground condition is suitable for the plastic pipes are to be produced.
15. Where plastic pipes are installed into the ground prior to getting full technical approval, the developer must provide a CCTV survey of the prospectively adopted sewers and a deformation test (Light-Line test) of the plastic pipes.
16. Demarcation chambers to be a min. 450mm chamber for 100mm foul & 150mm surface water pipes up to 1.2m depth. For depths greater than 1.2m, rectangular manholes are preferred to the circular ones required for safety reasons.
17. Maximum depth of demarcation chamber to be 2m, where depth exceeds 2m, manhole to be constructed as type B manhole.
18. Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitably sizes to accommodate standard lifting keys. Screw down covers are not acceptable.
19. Yorkshire Water is not obliged to accept tri drain/drain/drain network or the public sewer network or adoptable drainage system (directly or in-directly). In the absence of a method of disposal of the land drainage network it therefore is required that you have to liaise with the Land Drainage Authority/Land Drainage Section with regard to the disposal of the tri drain/land drainage network is required.
20. Sulphate resisting cement (C20-D20) and precast concrete products must be used or a laboratory report proving that such precautions are not necessary.
21. The minimum crushing strength for UPVC pipes should be as follows : 100mm dia. 40kN/m, 150mm dia. 40kN/m, 225mm dia. 45kN/m and 300mm dia. 72kN/m. The minimum crushing strength for concrete pipes should be - in line to EN 1916/BS3911 - 2002, Plastic pipes should conform to WS 4-35-01 and BS EN13476.
22. All levels of existing drainage to be confirmed prior to work commencing on site.
23. The contractor must allow for any fee's required for road and sewer opening permits, sewer connections and make the appropriate applications.
24. Bedding and backfill material to conform to the requirement of Water industry Specification 4-08-02 (Table A2).

REFER TO 0425/87/03.01 & 03.02
CROSSOVER LOCATIONS

SUBJECT TO THE
APPROVAL OF
ALL RELEVANT

D	RJ	07.02.23	S62-S64 Manholes amended	RJ	MI
C	JMG	09.11.22	Drainage updated to avoid services & new outfall levels		MI
B	JMG	08.07.22	Updated for IWNL submission		MI
A	JMG	27.06.22	Revised to Millers Layout & new road design		MI
/	DJG	27.05.22	Issued for approval	MI	MI
Rev	By	Date	Revision	Chk	Apvd



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LONGITUDINAL SECTIONS
SHEET 5 OF 5

PROJECT

GYPSY LANE,
WOMBWELL

CLIENT

MLER HOMES
(YORKSHIRE) LTD

DRAWING STATUS

PRELIMINARY

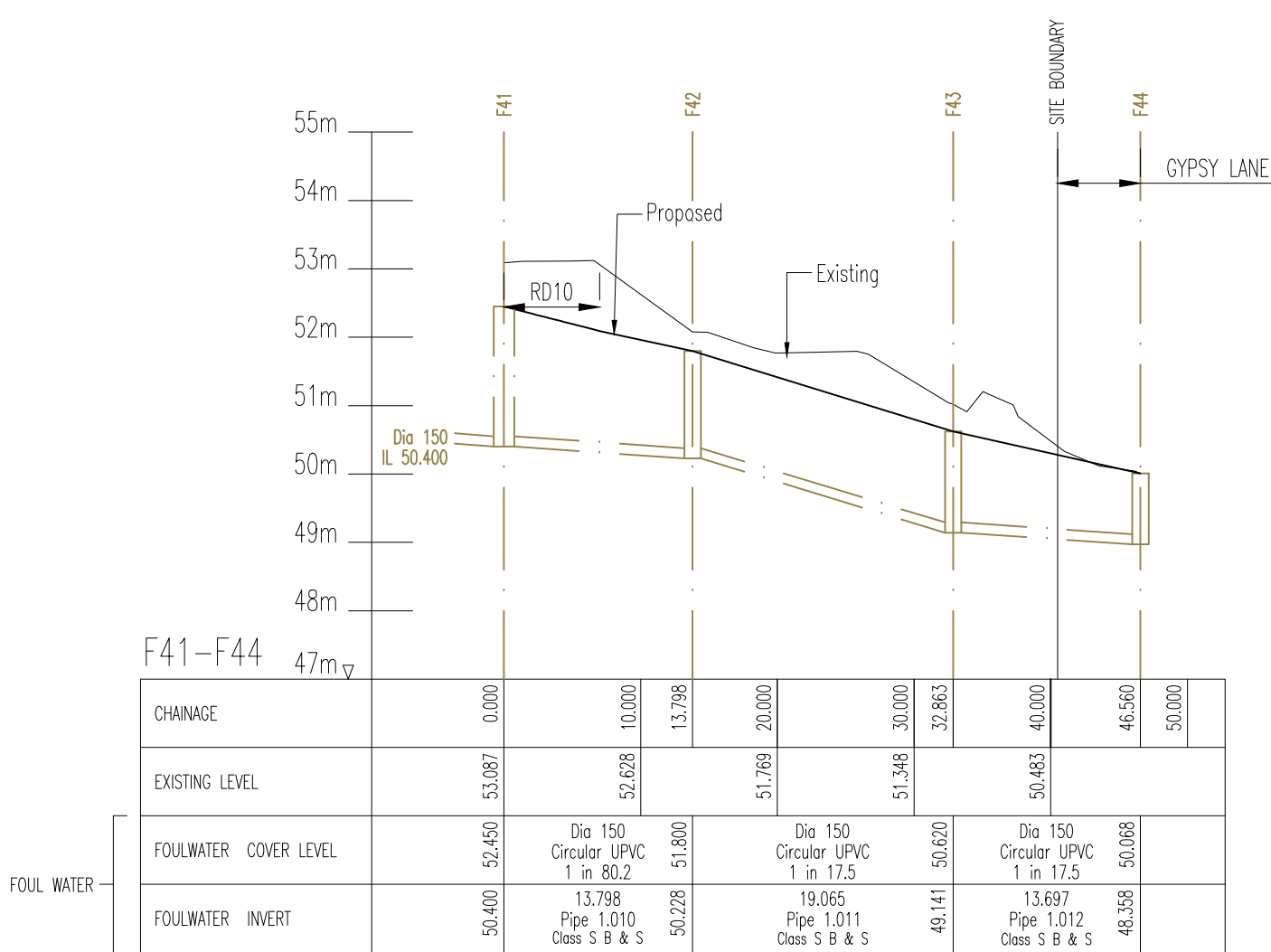
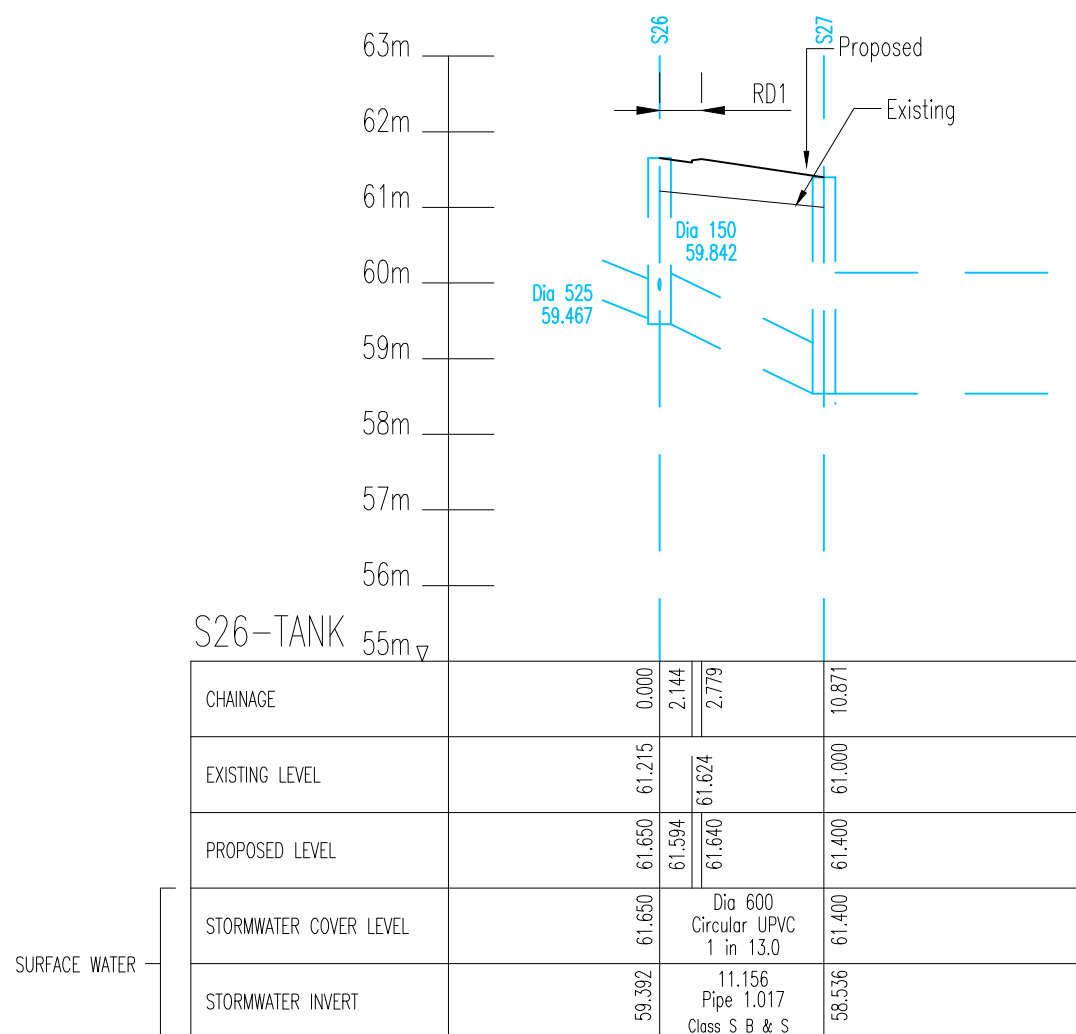
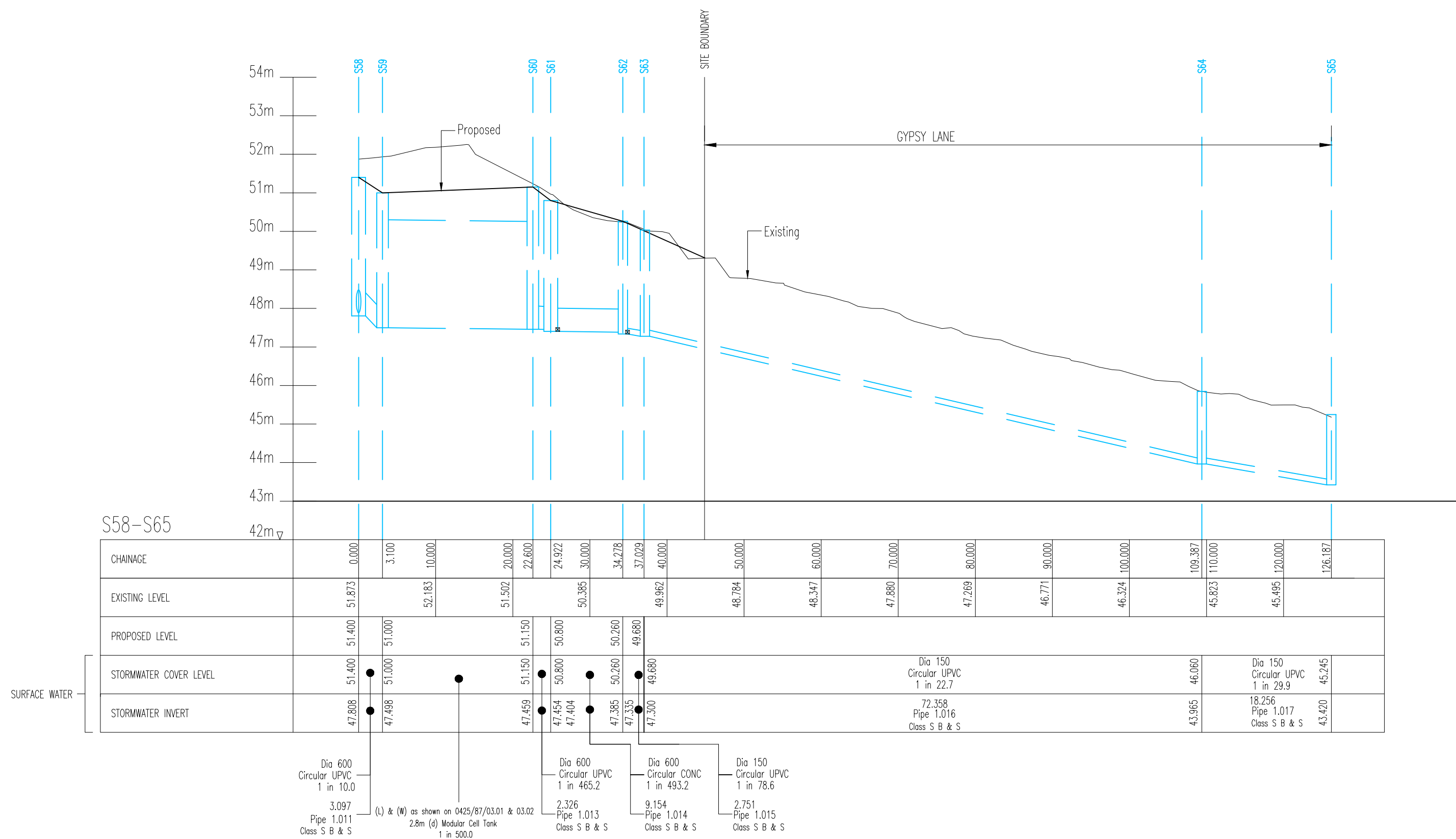
Scale

Scale

.0001

Drg. No. 0425/87/06.05

Rev



NOT

There should be enough clearance to accommodate the bedding for both pipes, approx 300mm. If crossover is near the rocker then the clearance needed may be increased.