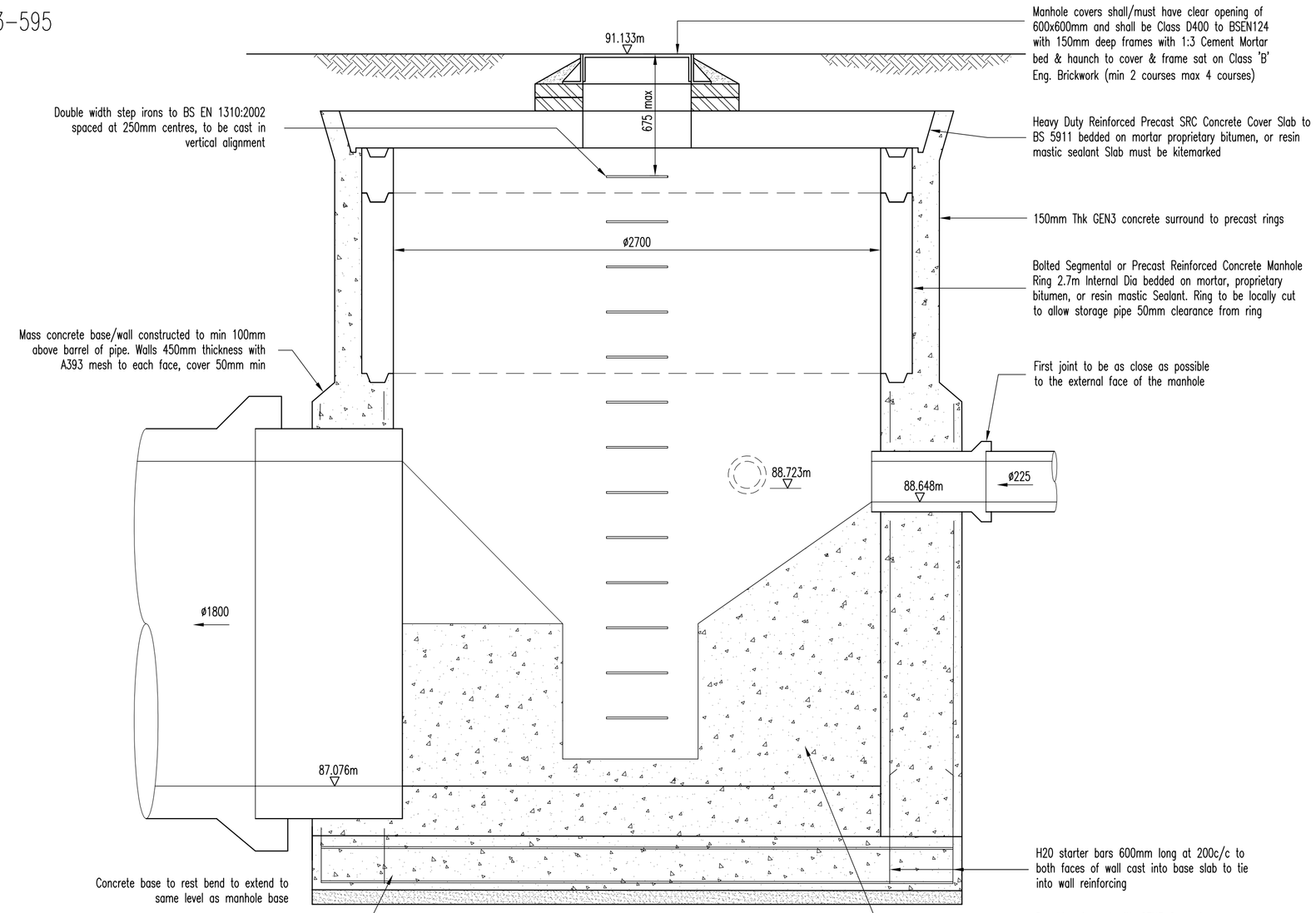
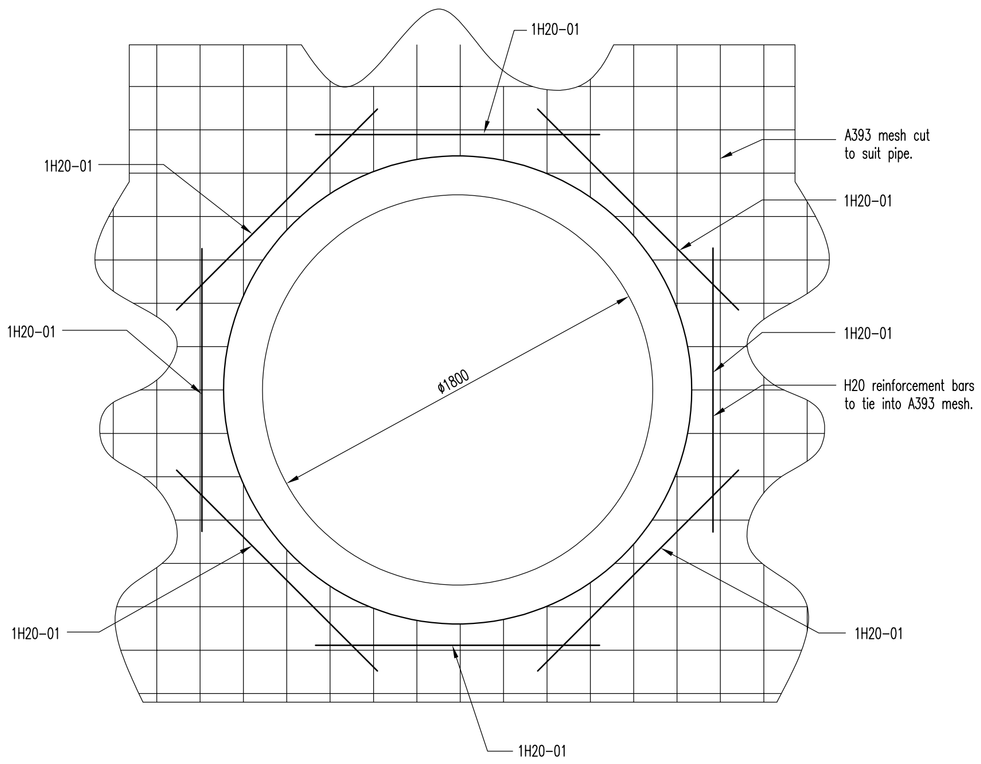
H-3-263-595



SECTION A-A THROUGH MANHOLE S3
(1:20)

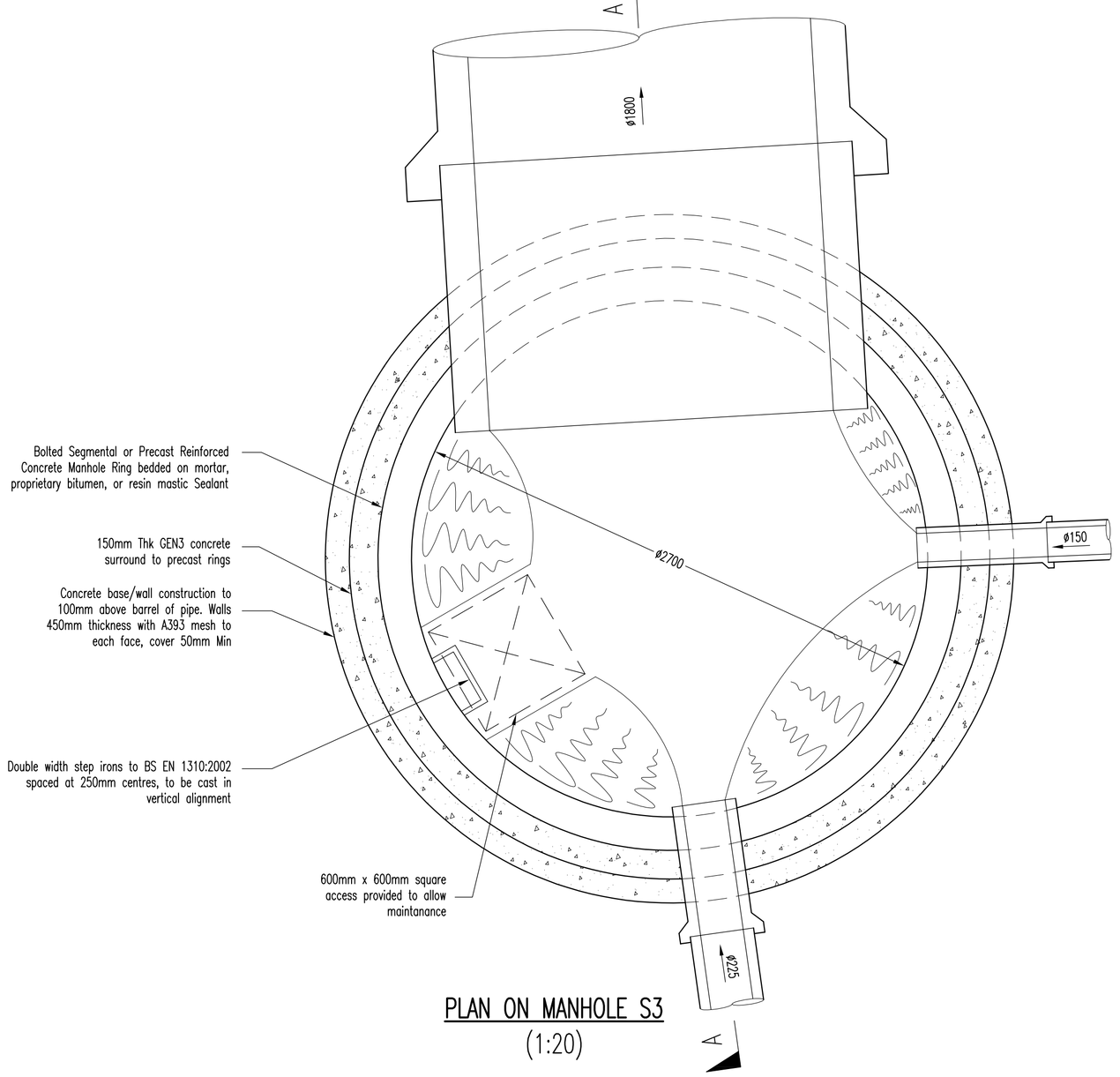


SECTION THROUGH REINFORCEMENT TO PIPES
(1:20)

PIPE SIZE	BAR SIZE
1050 - 1200mm	H12
1350 - 1500mm	H16
> 1500mm	H20

For Typical Section Through Reinforcement to Pipes see above.

REINFORCEMENT TO PIPES



PLAN ON MANHOLE S3
(1:20)

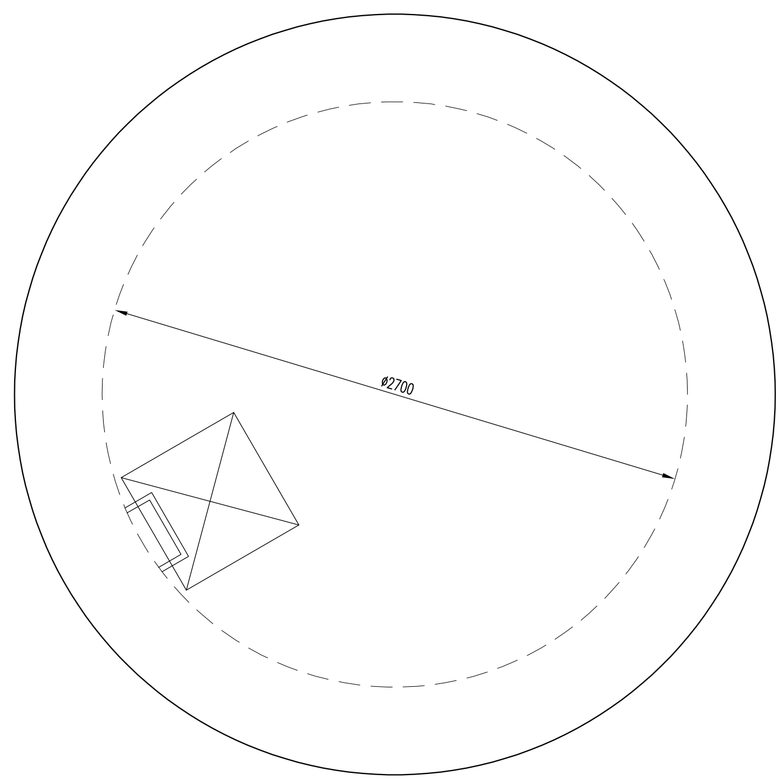
Section A-A is an idealised section and is shown for clarity, any surface box and access should be positioned as per the plan drawing

The benching to manholes shall be boxed out and benched in accordance with standard details and the following conditions:

1. Where access into manholes is restricted and the required headroom cannot be achieved.
2. Where the pipe internal diameters are 1050ø or greater.
3. The width of the boxed out benching shall be 750mm.
4. All access ladders or step irons must continue in accordance with the standard manhole details.

All boxing out of the benching within the manholes shall be approved by Yorkshire Water before work commences

All custom built ironwork to be hot-dipped galvanised prior to final fixing



COVER SLAB PLAN
(1:20)

SUBJECT TO THE APPROVAL OF ALL RELEVANT AUTHORITIES

N O T E S

Yorkshire Water General Notes

1. All adoptable sewer works and material to be in accordance with "Sewers for Adoption 6th Edition The relevant British/European and Yorkshire Water's Standard/Addendum and Kitemarked".
2. Manhole covers shall/must have a clear opening of 600mm and shall be Class D400 BS EN 124 with 150mm deep frames in highway.
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 BSI Kitemark or will be rejected by 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.
5. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
6. Sewers must have 5 metres clearance from trees and hedges, (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 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".
8. Adoptable sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer.
9. 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.
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 manholes. Instead Type "B" manholes with 1200mm dia or 1500mm dia. rings, with the opening sited over the channel where depth of cover to pipe soffit is 1-1.5m shall be used.
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 BSI Kitemark (certified to WIS 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 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.
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 adoptable sewers and a deformation test (Light-Line test) of the plastic pipes.
16. 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 opening to 350mm is 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. Yorkshire Water is not obliged to accept filter drain/land drainage runoff into the public sewer network or adoptable drainage system (directly or in-directly). An alternative method of disposal of the land drainage runoff will therefore be required and liason with the Land Drainage Authority with regard to the disposal of the filter drain/land drainage runoff is required.
19. Sulphate resistant cement (C20-DC2) and precast concrete products must be used or a laboratory report provided 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 (54KN/m) to BS EN 1916.
21. The contractor must allow for any fee's required for road and sewer opening permits, sewer connections and make the appropriate applications.

Rev	By	Date	Revision	Chk
/	FTH	01.09.16	Issued for approval	WMW

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TITLE
OVERSIZE MANHOLE S3 & DETAILS

PROJECT
ARDSLEY HOUSE HOTEL, BARNSLEY

CLIENT
ARNCLIFFE HOMES

Scale	Date	Drawn
As shown @ A1	AUG 16	FTH
		Chk. WMW

Drg. No. 956/27/07.03 Rev /