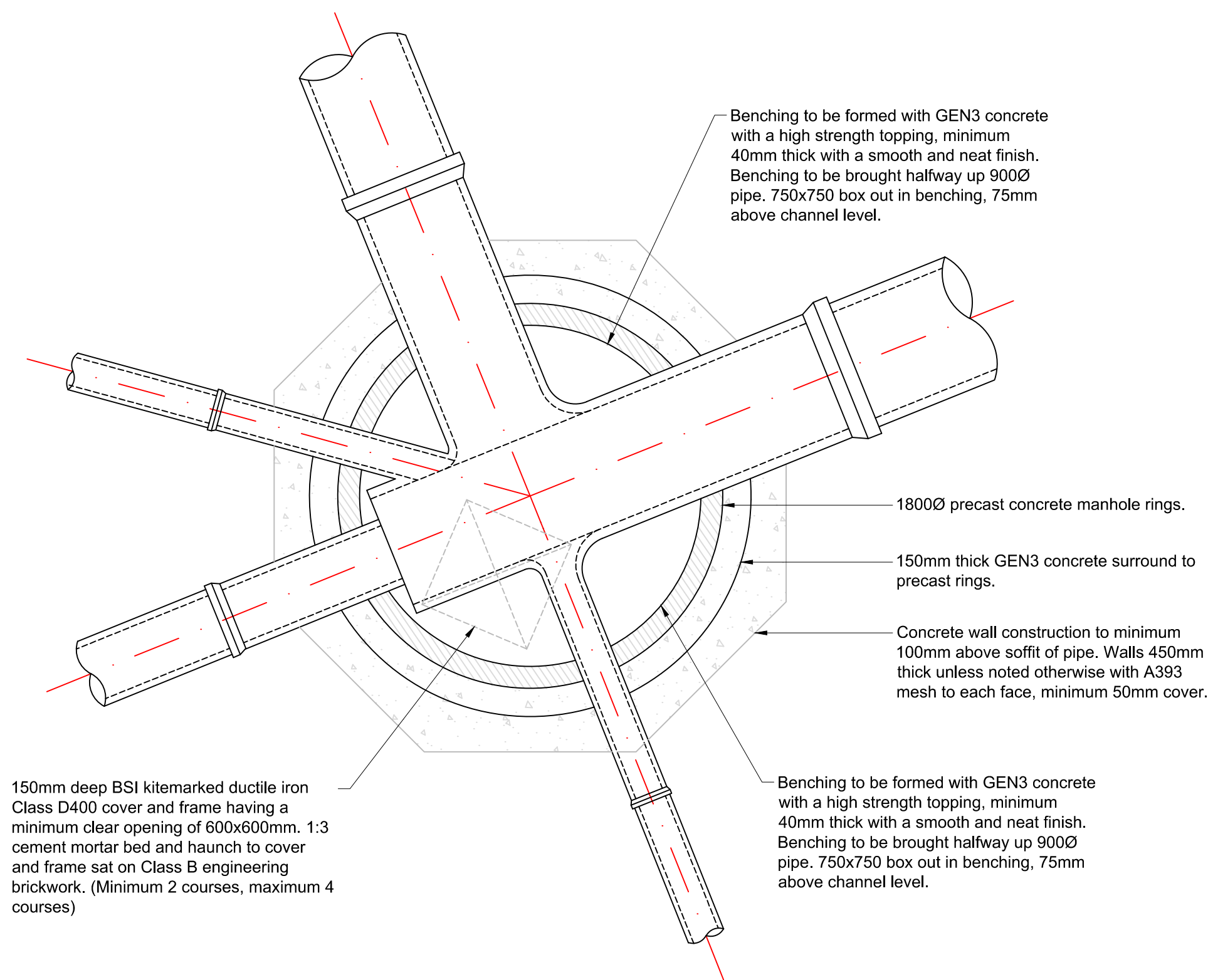
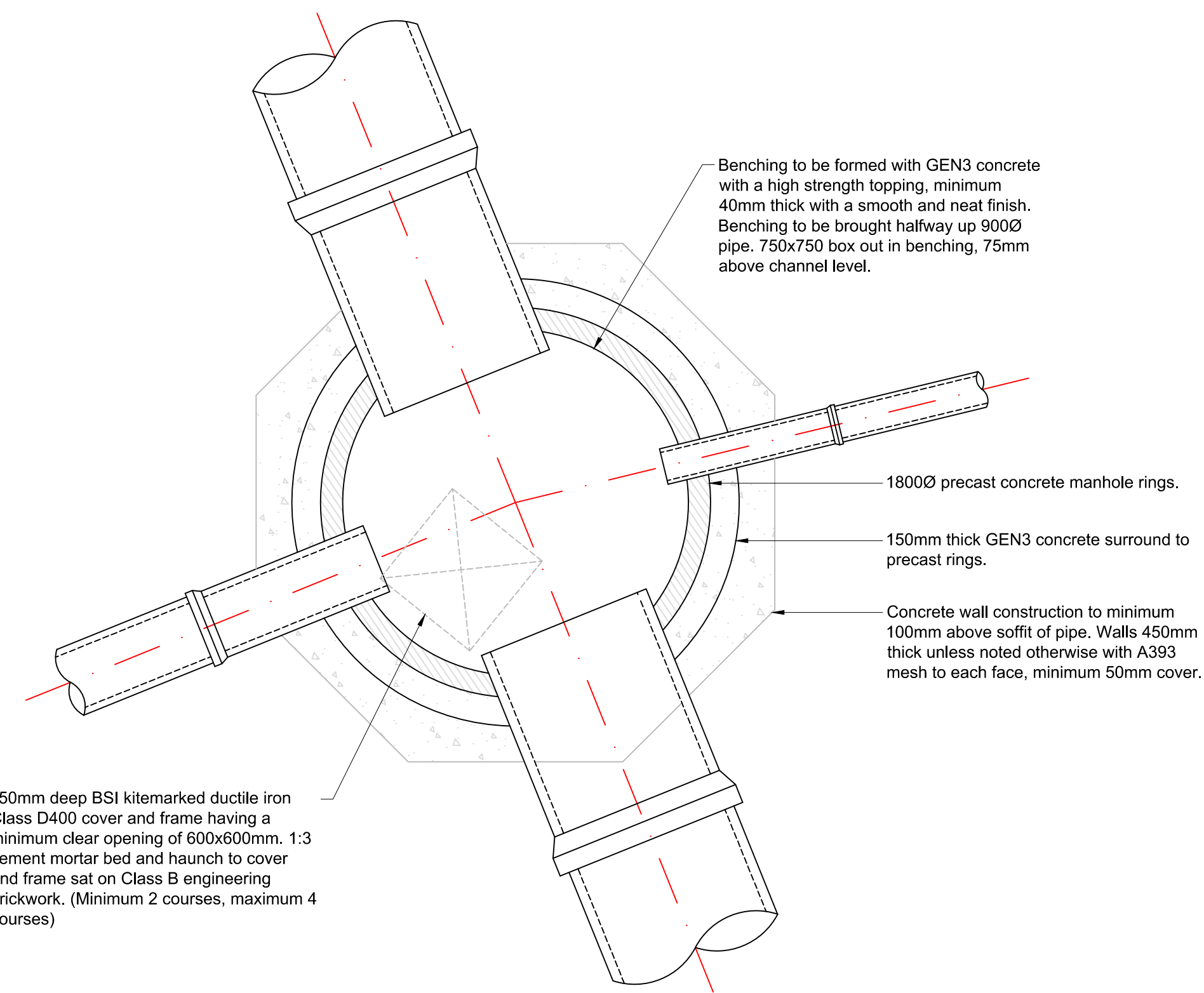




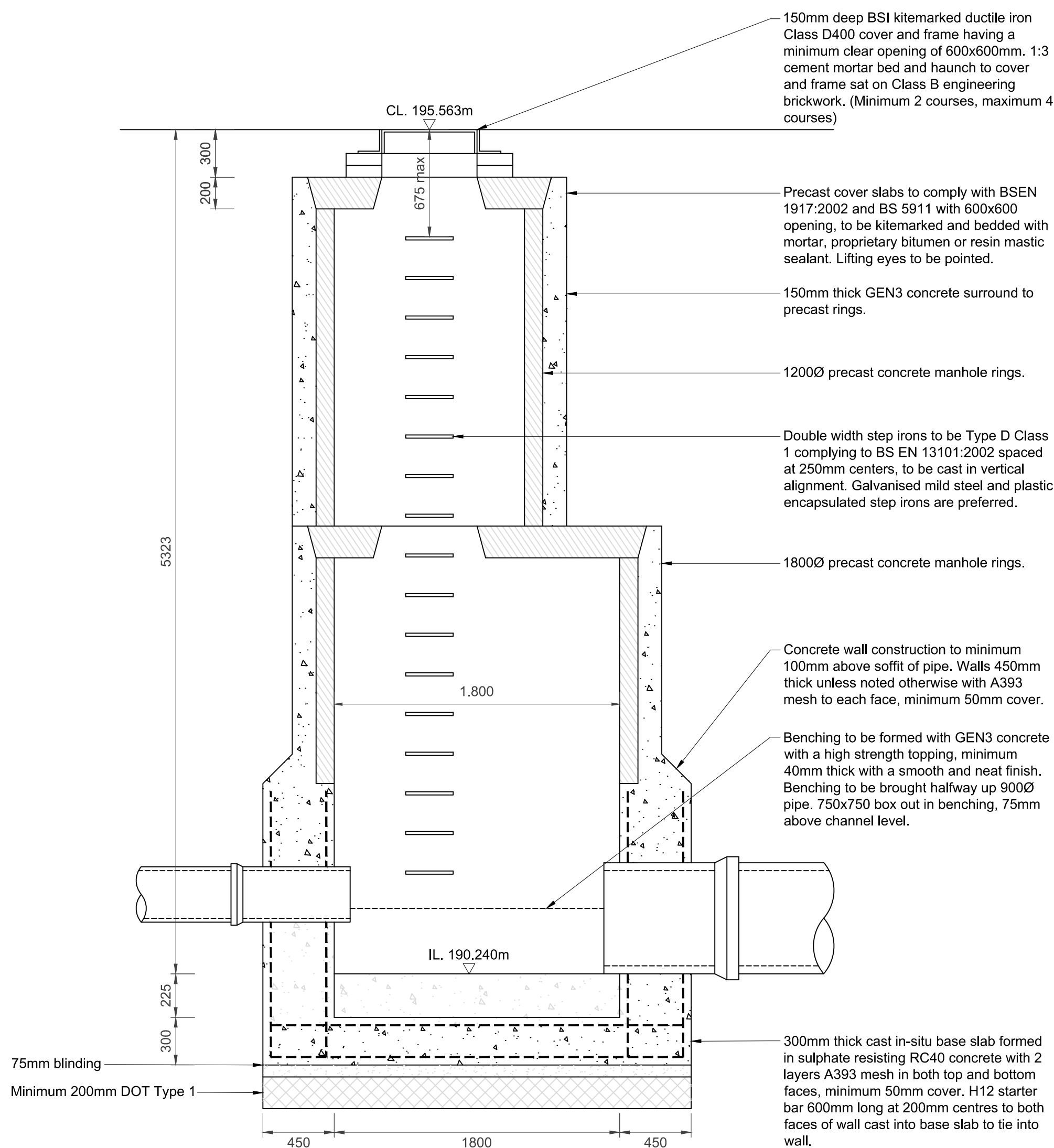
Manhole SW16 - Plan

(Scale 1:25)

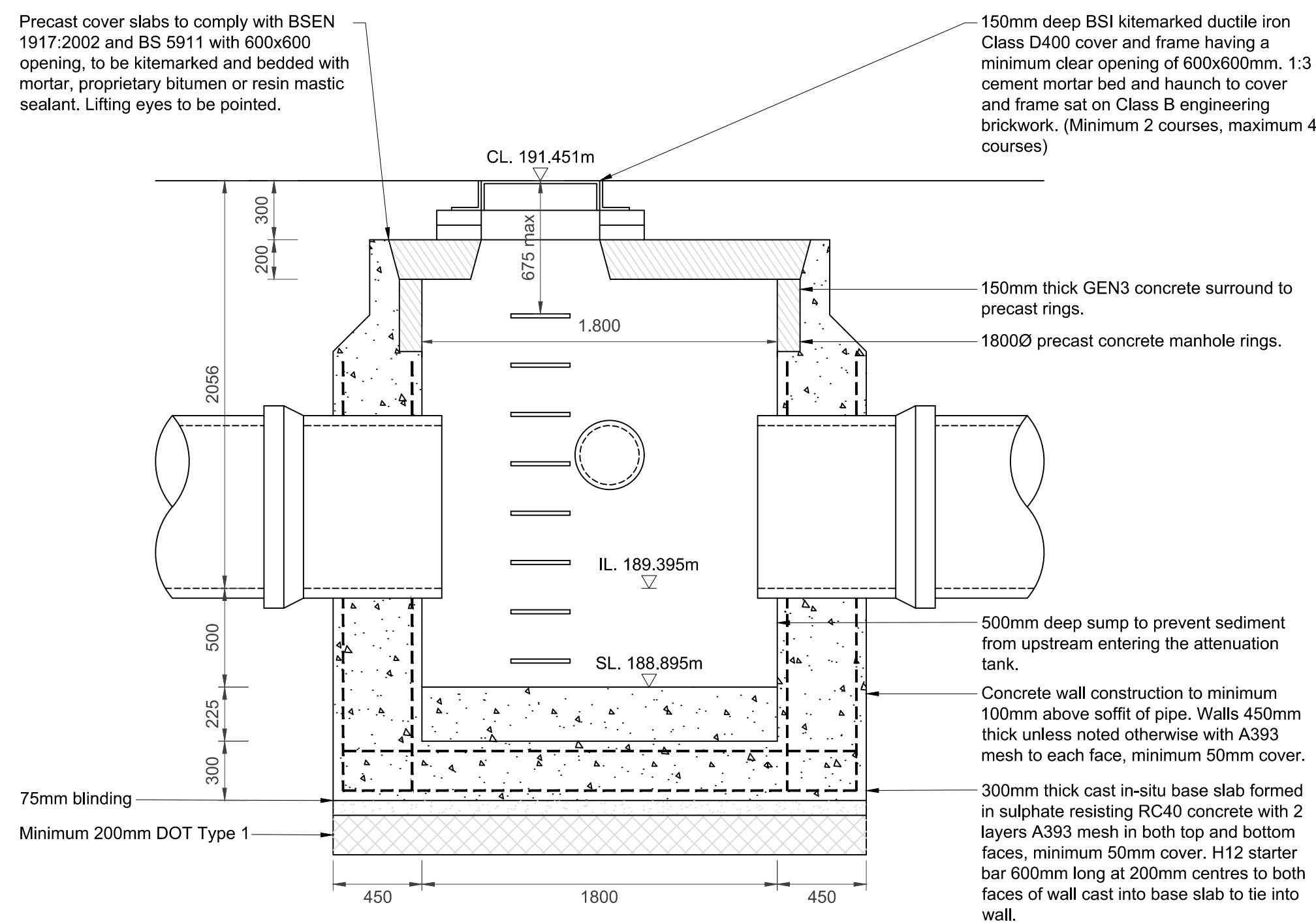


Manhole SW21 - Plan

(Scale 1:25)



Manhole SW16 - Section
(Scale 1:25)



Manhole SW21 - Section
(Scale 1:25)

- ### **General Notes**
1. Do not scale this drawing.
 2. All dimensions are in millimeters unless stated otherwise.
 3. This drawing is to be read in conjunction with all other relevant drawings & specifications.
 4. All proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.
 5. No works shall commence on site until approval has been obtained from all relevant Agencies / Authorities.
 6. All dimensions referred to in this drawing must be verified.

Yorkshire Water Notes

1. All adoptable sewer works and material to be in accordance with "Design and Construction Guidance (DCG)/Code for Adoption". The Relevant British/European and Yorkshire Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and must be Kitemarked.
2. Manhole covers shall/must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames.
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. Yorkshire Water is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or indirectly). An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section regarding the disposal of the filter drain/land drainage run-off.
5. The adoptable sewers should be a minimum of 1m and maximum 1.5m from kerb faces and service margins.
6. Sewers must have 5 metres clearance from trees and hedges or the width of the canopy at mature height (also refer Design and Construction Guidance 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 nonvehicular access areas) then a concrete slab should be provided above granular bed and surround.
8. Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08/02 (Table A1).
9. Yorkshire Water policy is that brick manholes and 1050mm dia. manhole rings are not preferred. Instead, it is preferred that you use a type "B" manhole with 1200mm dia. 1350mm dia. or 1500mm dia rings, with the opening sited over the channel where depth of cover to pipe soffit is 1 - 1.5m.
10. Adoptable plastic sewer pipes to be BSI Kitemarked (certified to WIS 4-35-01 and BS EN13476). Adoptable plastic sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and Yorkshire Water would require clay pipe channel in manholes.
11. The minimum crushing strength for clay 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 - (Class 120 to EN 1916/BS5911-1 2002). Plastic pipes should conform to WIS 4-35-01 and BS EN13476.
12. Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes supplied with a standard lifting keys. Screw down covers are not acceptable.
13. There must be enough clearance at crossovers to accommodate bedding to both pipes, approx. 300mm; if crossover is near the roker then the clearance needed may need to be increased".

P4	Gully connection to manhole SW21 removed	SG	25.09.20
P3	Drawing revised inline with Yorkshire Water comments	SG	21.09.20
P2	Manhole SW21 detail amended to show catchpit manhole	SG	28.07.20
P1	First Issue	SG	22.07.20
rev	description	drawn	date
Preliminary			



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projec

Land off Roslyn Avenue, Netherton, Huddersfield

drawing title:
Section 104 Construction Details
Sheet 4

Drawing Number:		Drawn by:	Checked by:
EE100008-228		SG	SG
Project ref:	scale:	date:	original paper size:
EE100008	1:25	22.07.2026	A1

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