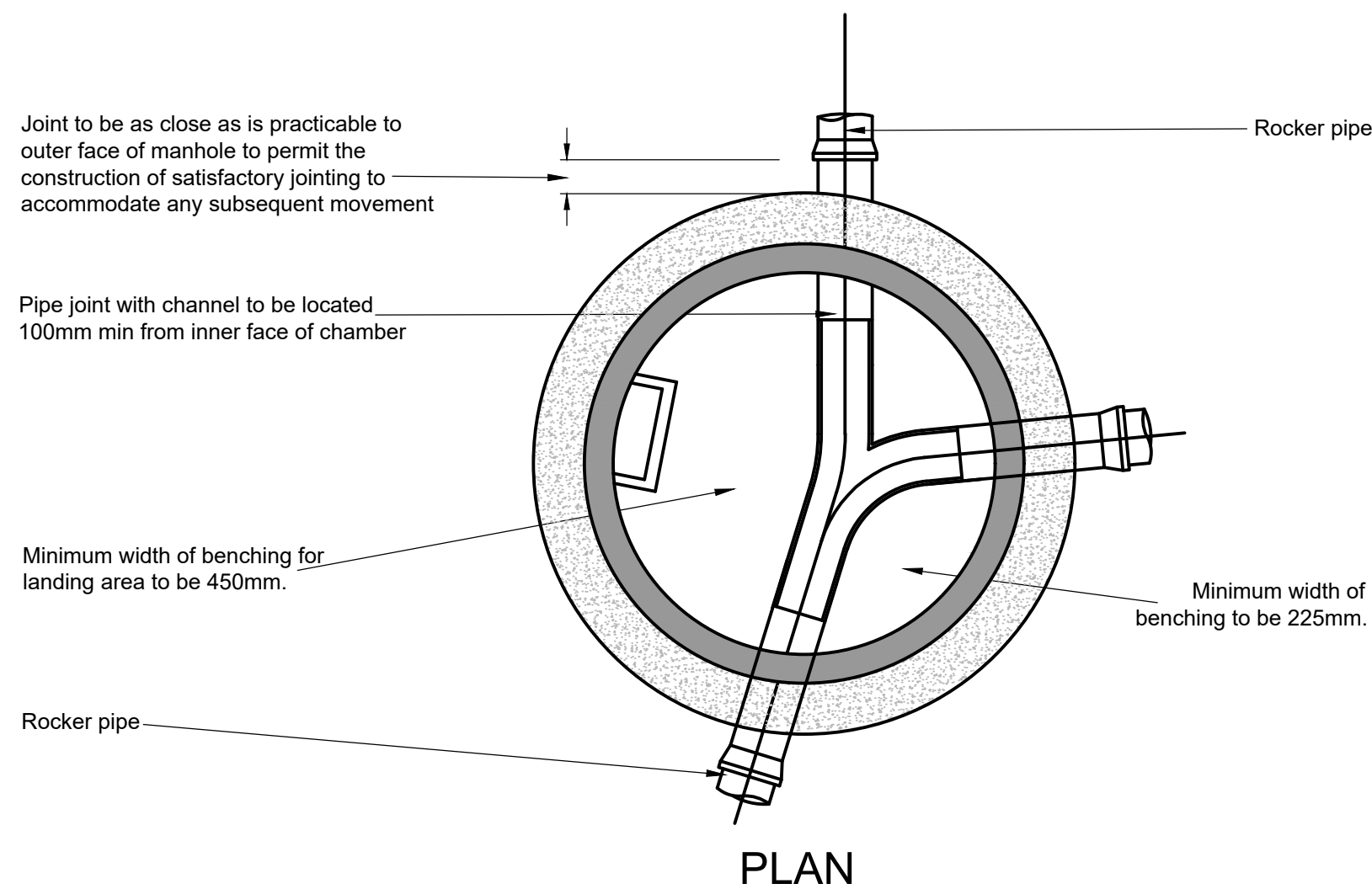
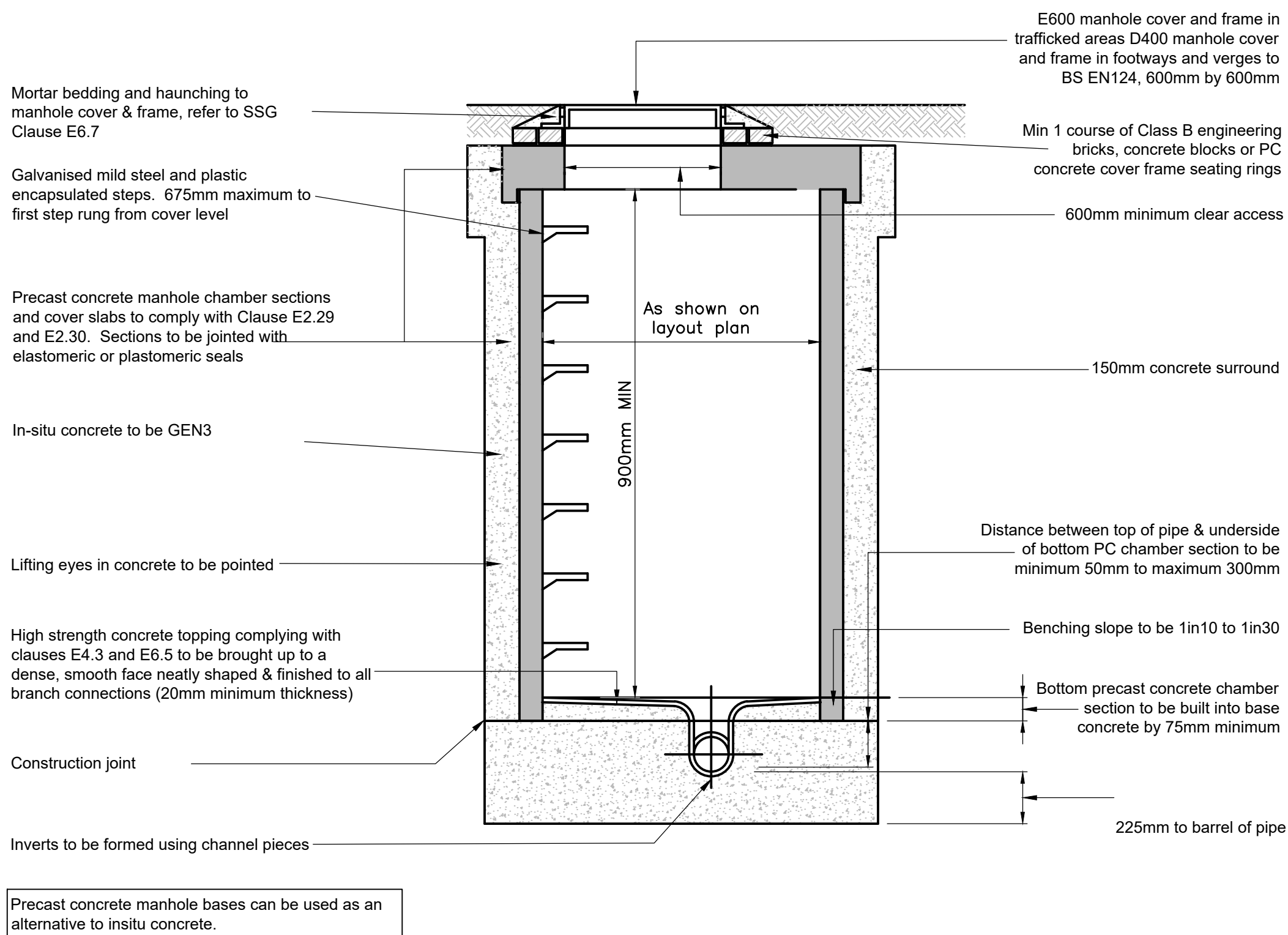
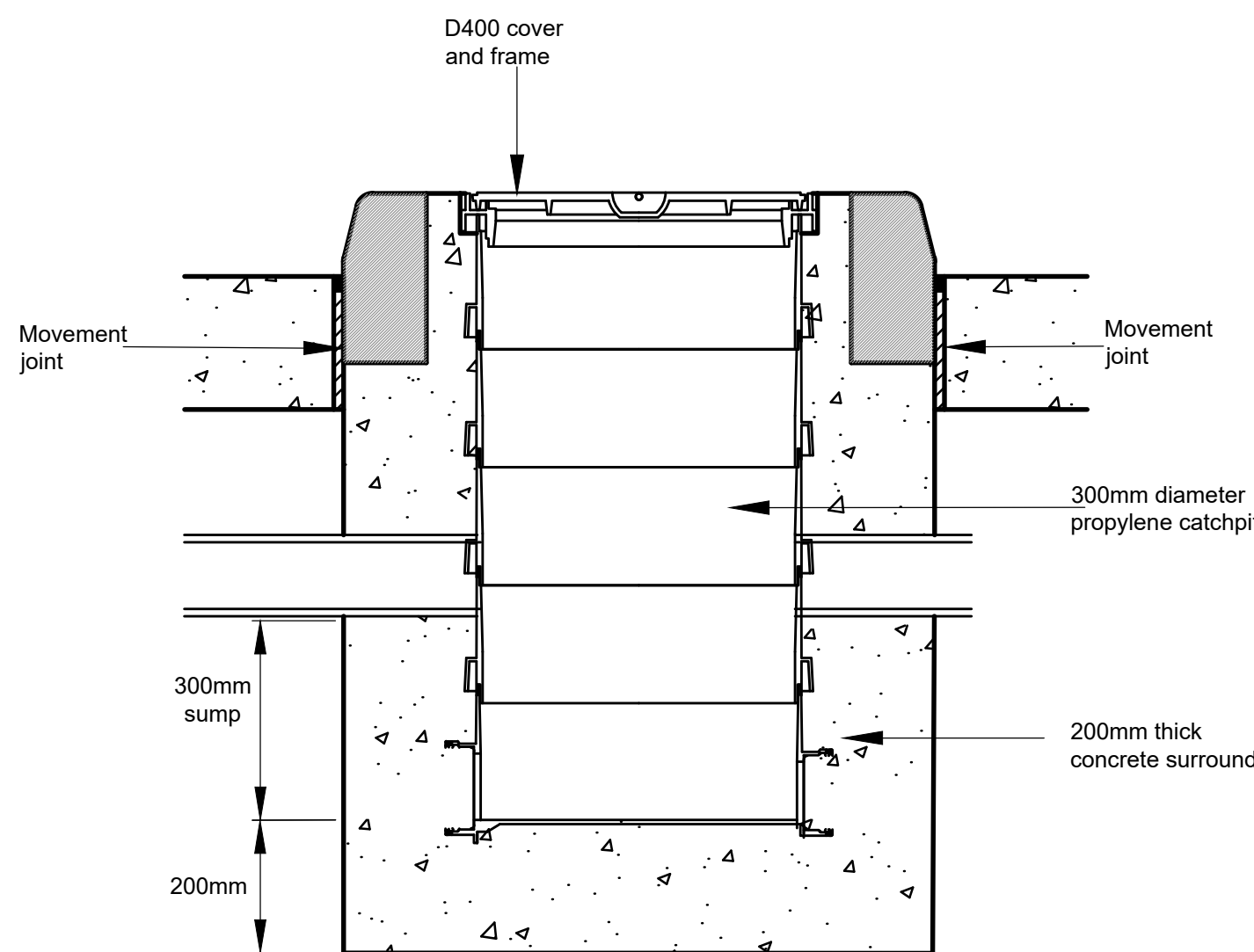
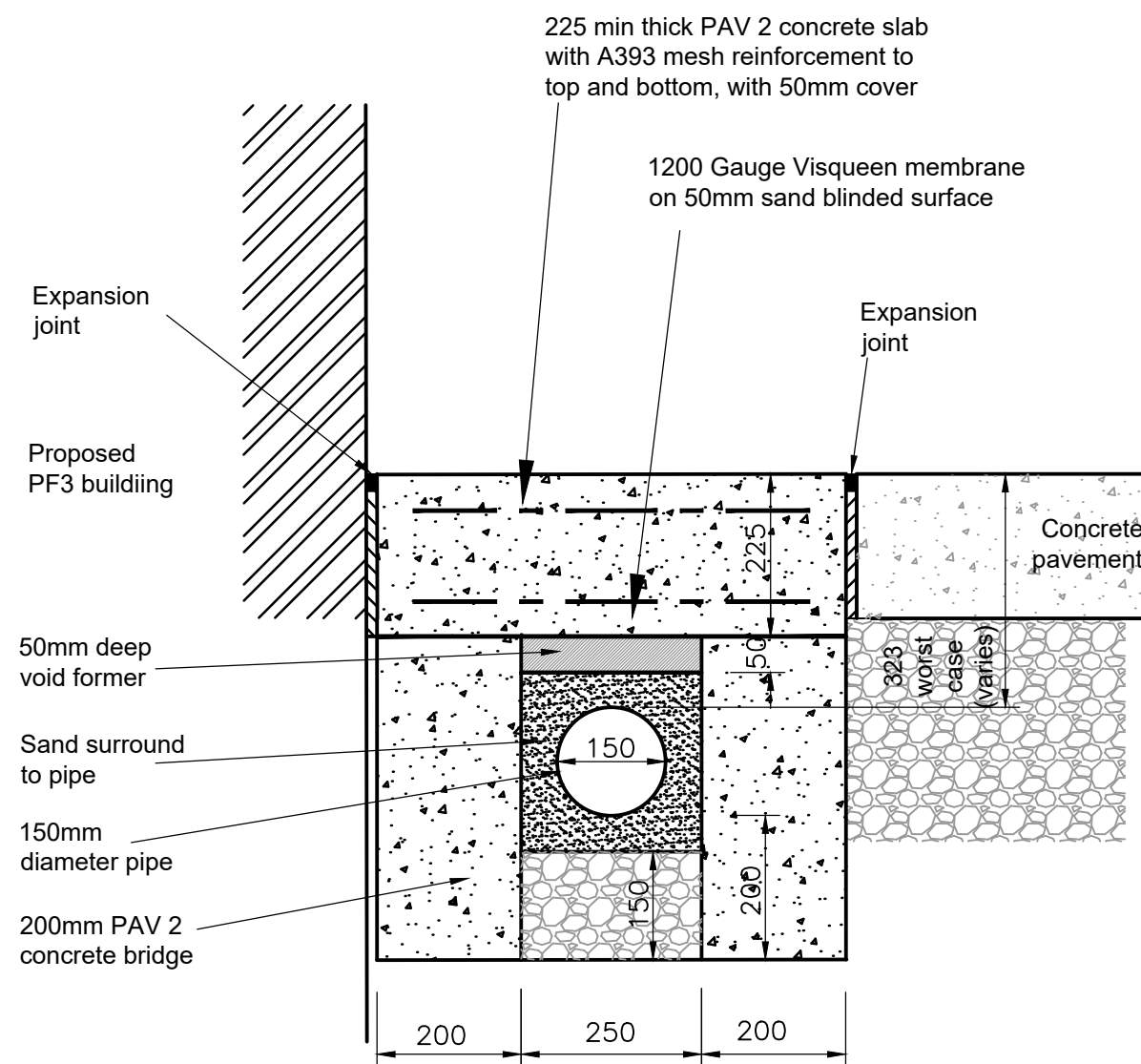




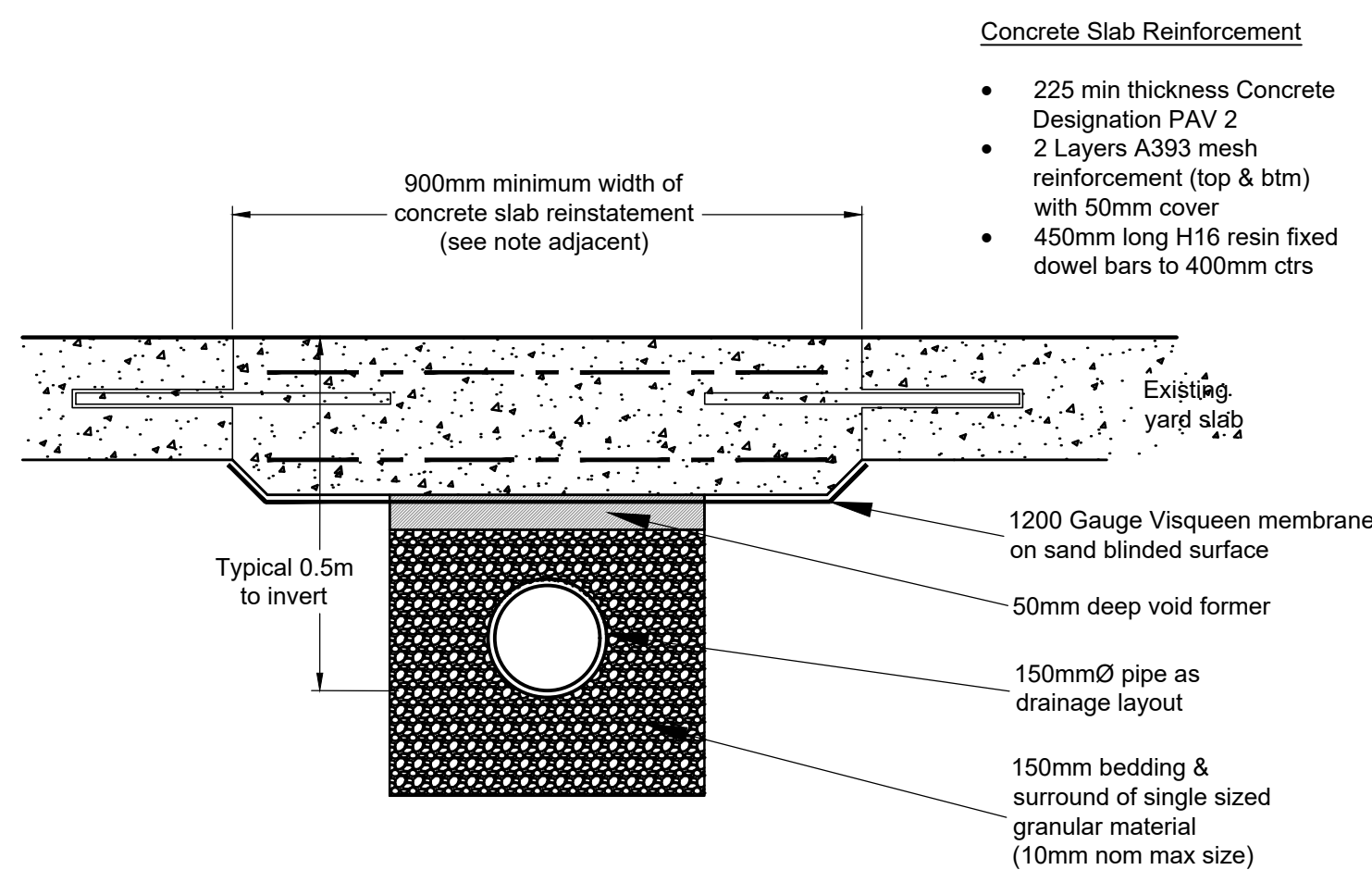
Manhole Type B
depth from cover to soffit of pipe 1.5m < 3m
Scale 1:20



Polypropylene Inspection Catchpit Detail



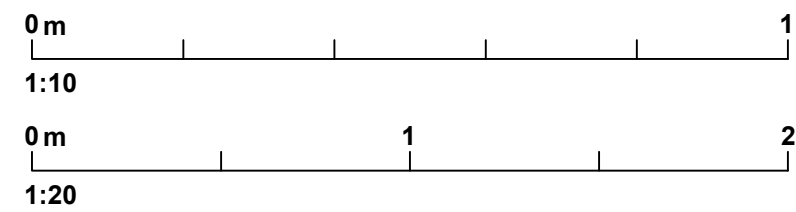
Pipe Trench Detail
Typical Cross Section
Scale 1:10



Pipe Bedding (for flexible pipes)
Beneath trafficked zone (existing conc. paving)

Drainage Notes :

1. All drainage works to be undertaken in accordance with Sewerage Sector Guidance.
2. Highway construction materials and workmanship shall be in accordance with the Specification for Highway Works.
3. The Principle Contractor shall be responsible for checking the existing line, invert level and pipe diameter of the existing connection points for the drainage system, prior to undertaking installation of any new drainage works. Any deviation to the levels and positions indicated on the drawing should be brought to the immediate attention of the Engineer.
4. Pipes 300mm diameter or over to be high strength Class M concrete. Pipes up to and including 225mm dia to be clay ware to BSEN295 Class 160. Pipe material to be resistant to chemical and temperature content of discharge, to be confirmed prior to final confirmation of pipe material.
5. All pipes shall have BSI Kitemarked.
6. All pipe runs to be laid with flexible joints.
7. Connections to be made by purpose made junctions as far as practicable, or using pipe bends to be turned in direction of flow.
8. Bedding and surround to be Class S for drainage >1.2m cover to soffit under trafficked areas and for drainage >0.9m cover to soffit under landscaping area.
9. All precast concrete products shall be manufactured from concrete with a Design Chemical Class DC-1.
10. All pipes entering and exiting manholes are to be connected with pipe soffits level unless noted otherwise.
11. Pre-formed channels are to be used in manholes where applicable.
12. First flexible joint in pipes adjacent to a manhole shall be a maximum of 600mm from inside face of manhole, connecting to a rocker pipe.
13. The length of the rocker pipe to be 600mm for pipes between 150mm and 600mm diameter.
14. Manhole covers and frames to be in accordance with Sewer Sector Guidance. Frames to be 150mm deep. Frame strengths to be E600 in trafficked areas and D400 in footway and verge areas.
15. Granolithic concrete benching to be steel trowelled to a dense smooth face neatly shaped and finished to all branch connections.
16. The first manhole upstream from the connection to the connection to the existing drainage should be fitted with a screen in order to prevent debris entering the existing sewer/drain. The screen should not be removed until immediately prior to the occupation of the premises to be served by the sewer.
17. All drainage works within the zone of influence of trees are to be constructed in accordance with the NHBC standards and tree preservation officers requirements.
18. All drains to be tested prior to backfilling, and upon completion of surfacing. All drains to be inspected by CCTV immediately prior to practical completion.



General Notes:

1. The drawings, design and all information contained therein are the sole copyright of Norder Design Associates (NDA) and reproduction in any form is forbidden unless permission is obtained in writing.
2. This drawing is to be read in conjunction with all other relevant Architects, Engineers and specialists drawings, details and specifications.
3. Conflicting information shown on the NDA drawings or discrepancies between the information given by NDA and that provided by others must be referred to NDA before work proceeds.
4. Dimensions marked 'dimension to be site checked' are subject to confirmation by site measurement before construction proceeds.
5. Subcontractor surveys, such as for the purposes of steelwork installation, take precedence over 'site dimensions' indicated on this drawing. All surveys should ensure an accurate fit of components.
6. Temporary works associated with the construction of the project shall be the responsibility of the Principal Contractor.
7. Where any temporary works or scaffolding are required the Principal Contractor shall appoint a competent and suitably experienced Temporary Works Coordinator (TWC). Refer to BS 5975 for guidance on temporary works and the role of a TWC.
8. Calculations and drawings of all Contractor designed structural items associated with NDA's design responsibilities shall be submitted to the Engineer for comment at least 10 days prior to manufacture. Any comments made by NDA do not absolve the Contractor of his design responsibilities.

P4	24/03/22	Scale bars added.	AS	ML
P3	22/03/22	Channel detail replaced with pipe	AF	ML
P2	15/03/22	Birco detail amended	AF	ML
P1	11/03/22	For approval	AF	ML
REV	DATE	AMENDMENT	DRW	CHK
CLIENT				

CRODA

PROJECT

PF3 Building
Barnfield Road, Leek

DRAWING TITLE

Drainage Details



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E-mail: enquiries@norder.co.uk

SCALE	SHEET SIZE	NDA REF
As shown	A1	8655

SUITABILITY

S2 - Suitable for Information

DRAWING NO.	REV
8655-NDA-XX-XX-DR-C-1251	P4