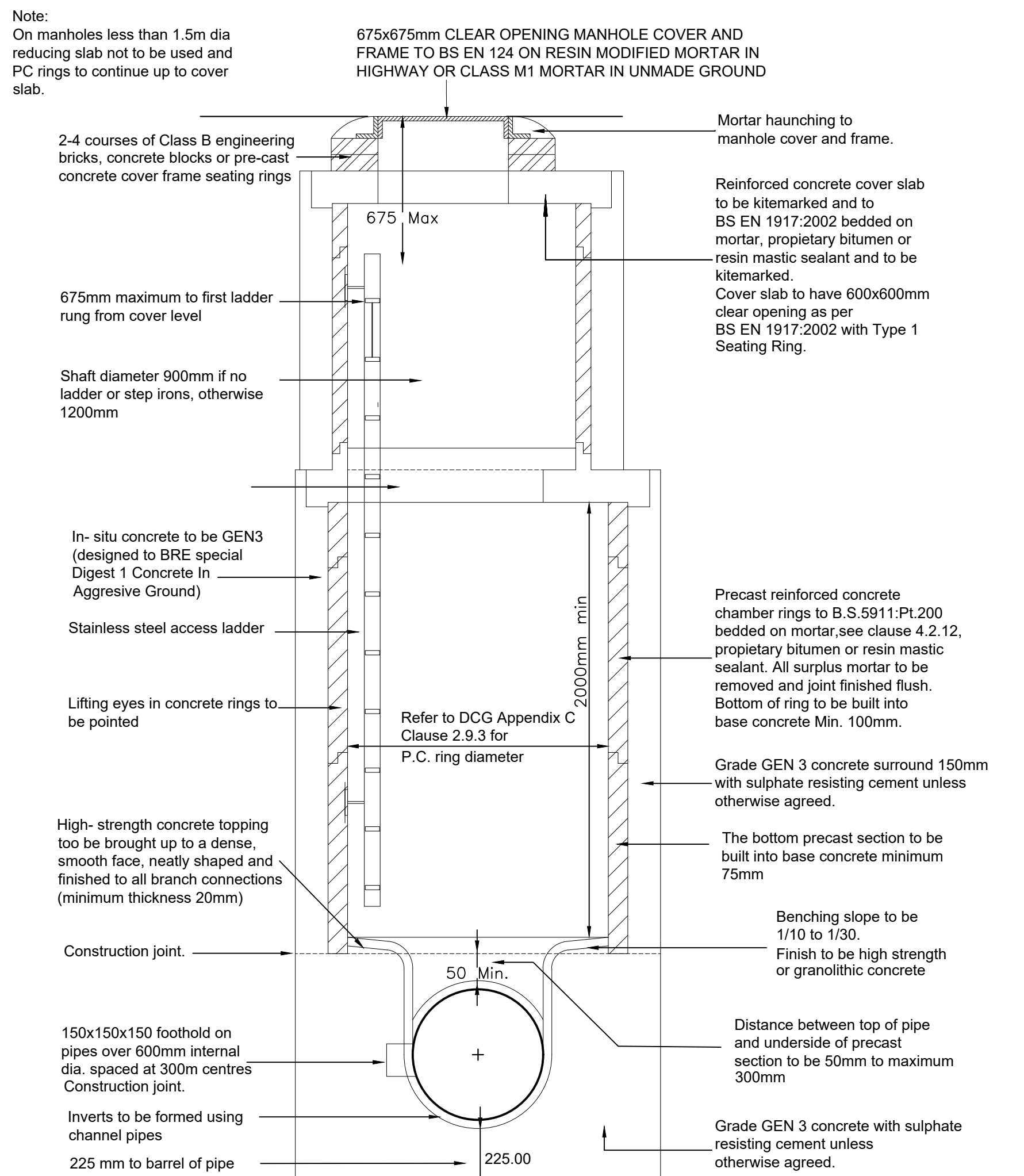


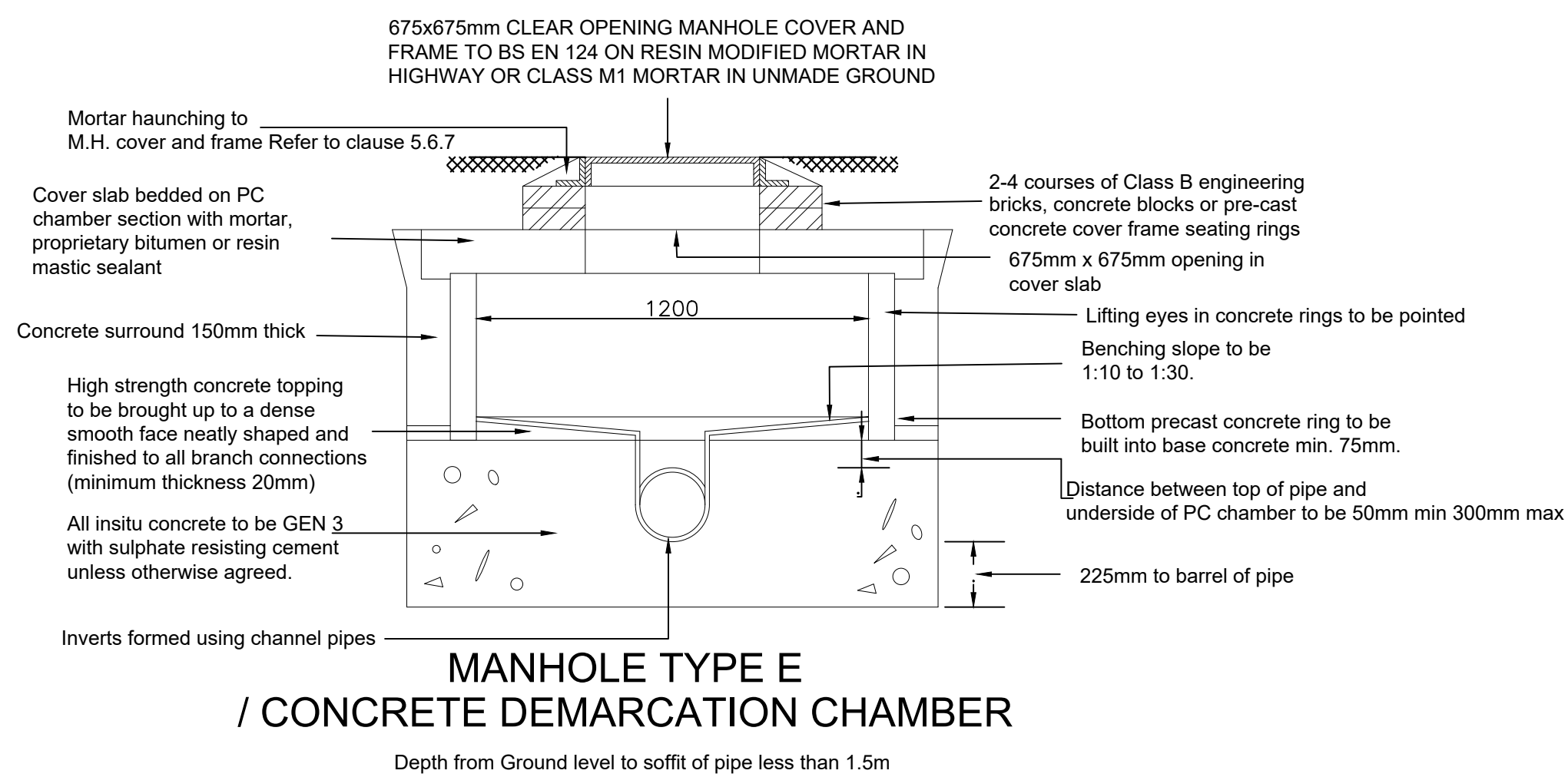
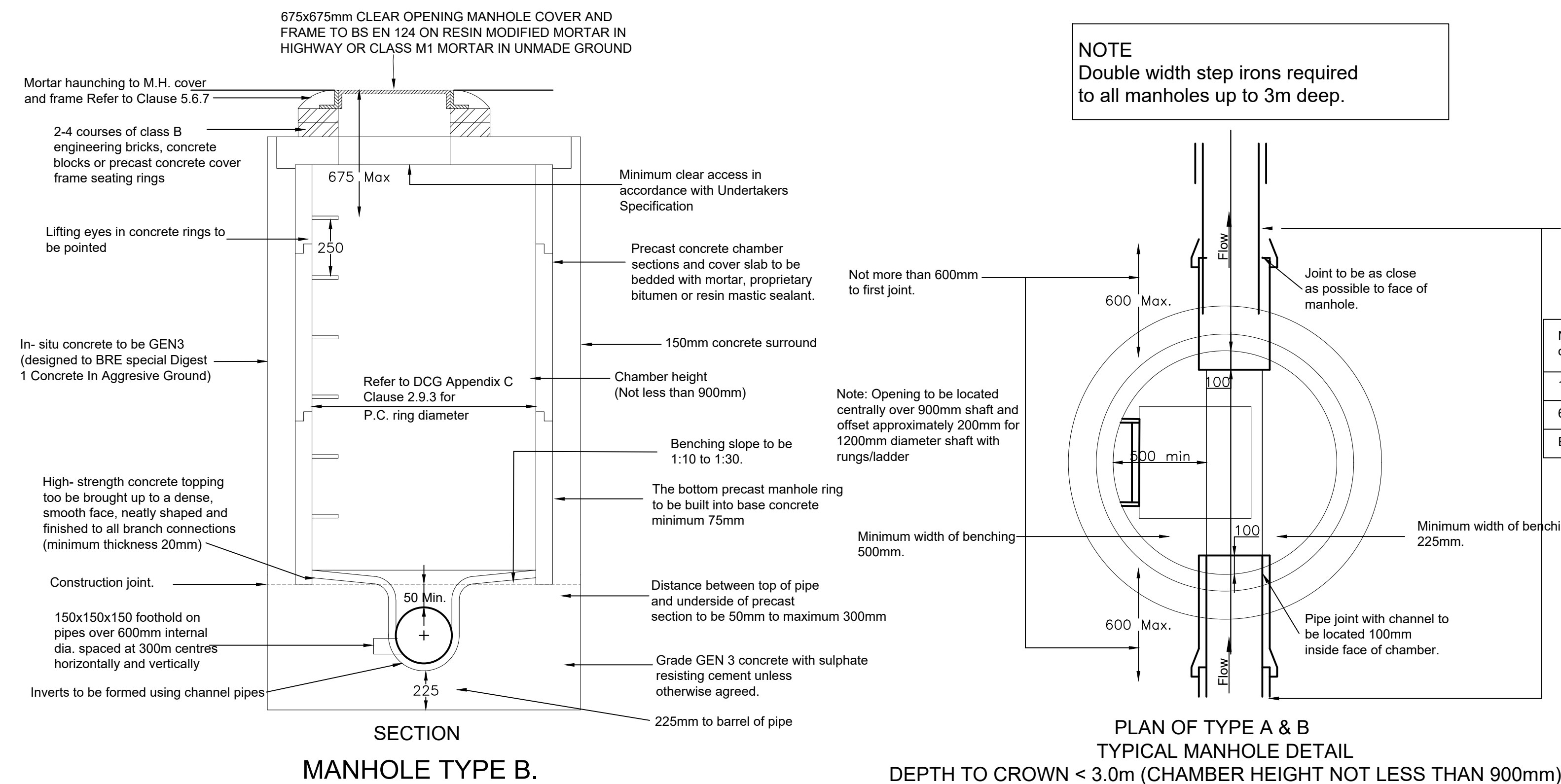
Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing.
Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

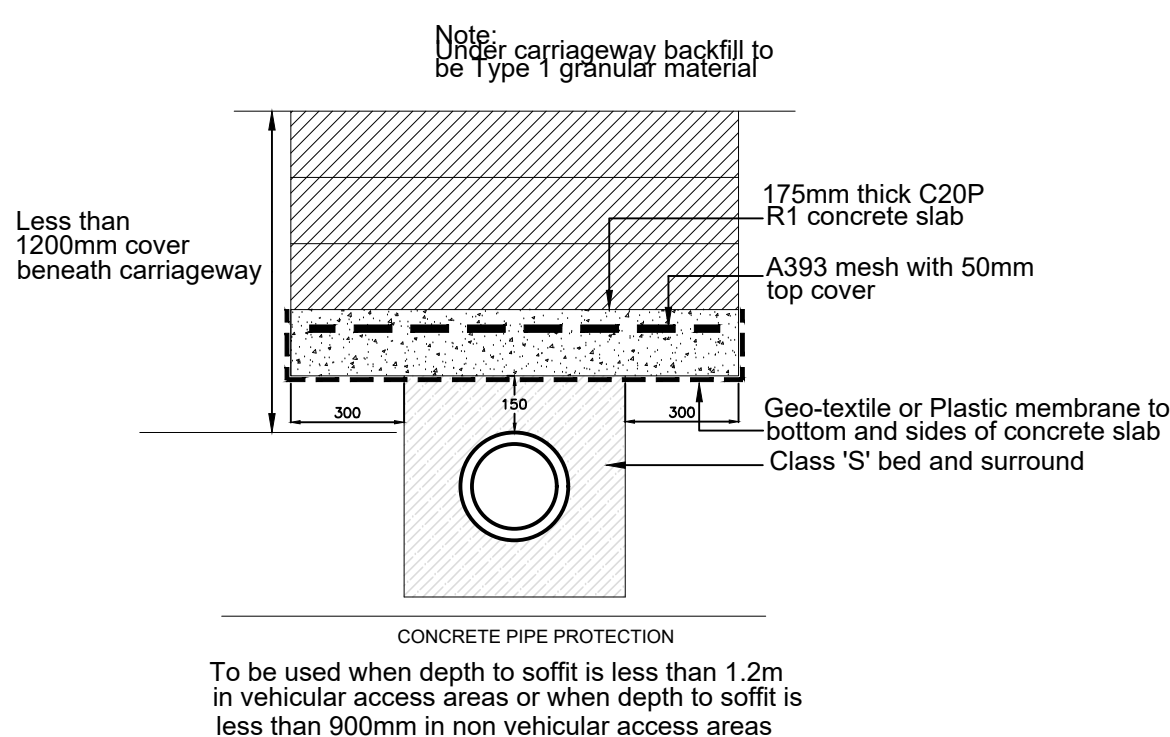
Drawing Subject to change following comments from highways & Staffordshire Moorlands District Council.



SECTION
MANHOLE TYPE A.



Note
All Drainage works and materials to conform with 'DCG Appendix C'.
Chambers
Type C, D, E & F are non preferred chambers. For type 'B' chambers less than 1.2m from top of benching to the underside of the cover slab, shall have the cover fixed in the centre of the slab and the channels intersecting beneath the cover.
Covers
Manhole covers to be class D400 and have 150mm deep frames where located in the highway.
Step Irons
All step irons shall be double rung and complying clause 4.2.31.
Step irons are suitable for type B manholes, type A manholes require ladders.
Brickwork
All brickwork to be constructed using Class B engineering solids.



Location	Minimum Depth (m)
Gardens	0.9
Agricultural/Open spaces	0.9
Highways (no footways)	1.2

Surface	Class (Loading in kN)	Loading
Road	D400	Vehicle Impact
Footway & Driveway	B125	Occasional vehicle loading
Garden	A15	Occasional pedestrian loading

Lateral connection pipes

Diameter (mm)	Gradient	S.W.
100	Foul	
150	Min 1:150	Min 1:150

Vitrified clay pipes to BS EN 295 kitemarked.
Unplasticised PVC pipes to BS 4660:200 & BS EN 1401-1 kitemarked.
Structural Wall Unplasticised PVC pipes to WIS 4-35-01 kitemarked.

Nominal bore of pipe (mm)	Size mm Single sized	Size mm Graded
100-125	10	
150-200	10 or 14	14 to 5
225-300	10, 14 or 20	14 to 5 or 20 to 5
375-500	14 or 20	14 to 5 or 20 to 5
Exceeding 500	14, 20 or 40	14 to 5, 20 to 5 or 40 to 5

All granular material to be single sized or graded in accordance with BS 882: 1983, sintered pulverized-fuel ash to BS 3797: Part 2: 1976 and air-cooled blast furnace slags to BS 1047: 1983 are suitable.

Trench fill under roads to conform with Highways requirements - excavated granular material may be reusable.
Otherwise Type 2 granular fill may be used. Selected material to be lightly compacted by hand.

Single-size granular material.

Class S Bedding Factor 2.5

Scale 1:10

LATERAL DRAIN BEDDING DETAIL

