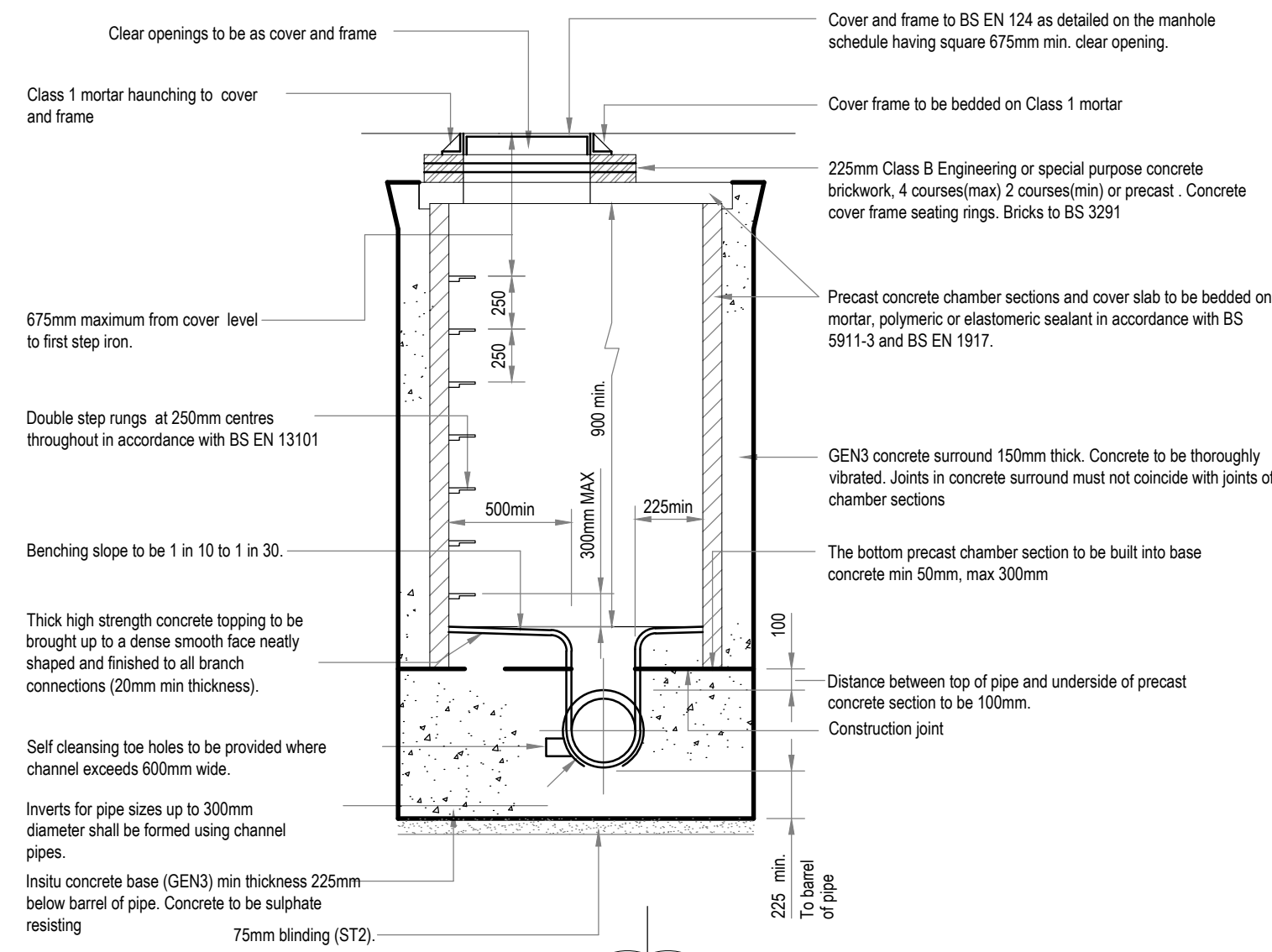
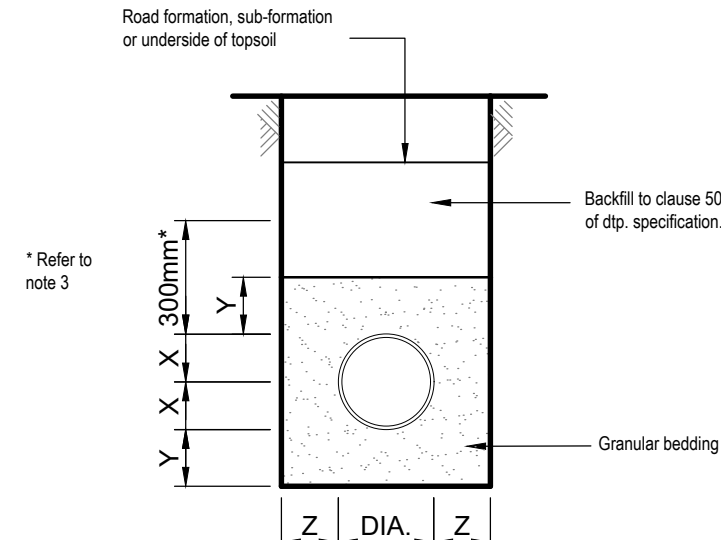




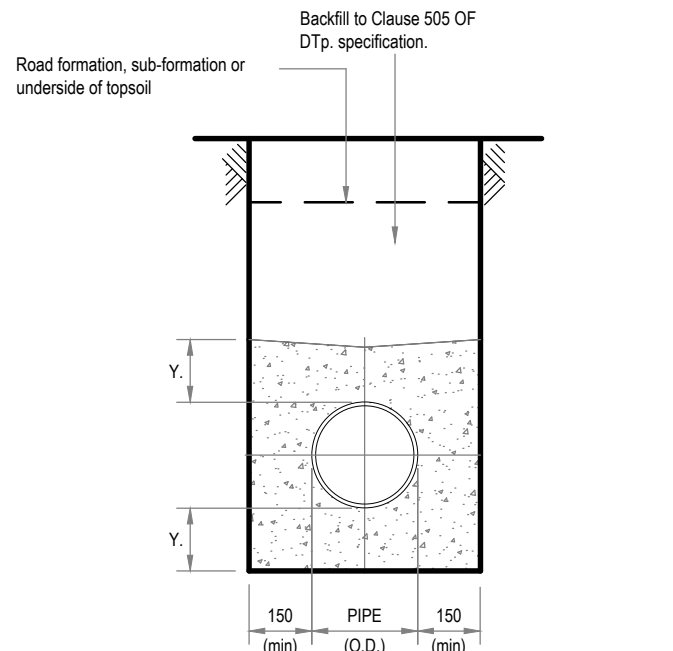
MANHOLE - TYPE 2
DEPTH TO SOFFIT = 3.0m MAXIMUM



CLASS S BEDDING
GRANULAR BED AND SURROUND
(Bedding factor = 2.2)

X = Half of outside diameter of pipe
Y = Refer to pipe bedding dimension table
Z = Minimum 150mm

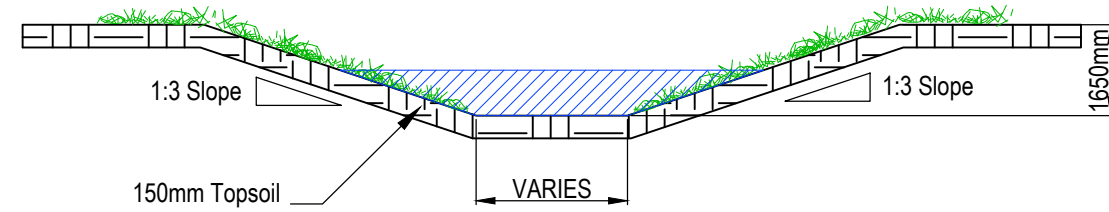
- NOTES:
- Bedding to be used where depth of cover to pipe is minimum:
 - 1.2m under trafficked areas (adoptable roads),
 - 0.9m under agricultural land, public open space, domestic driveways, parking areas and narrow streets without footways with limited access for vehicles with a gross vehicle weight in excess of 7.5 tonnes.
 - 0.6m under soft landscaping.
 - Refer to tables for dimensions and bedding details
 - Bedding beneath and at the sides of the pipe to be well compacted
 - The first 300mm of fill above the crown of the pipe is to be lightly tamped by hand. Mechanical compaction may be used only above this level.
 - Geotextiles may be used where directed or approved by the engineer to contain bedding material in certain soils e.g. running sand
 - In very wet conditions, where directed or approved by the engineer a temporary land drain may be laid within the granular bed.



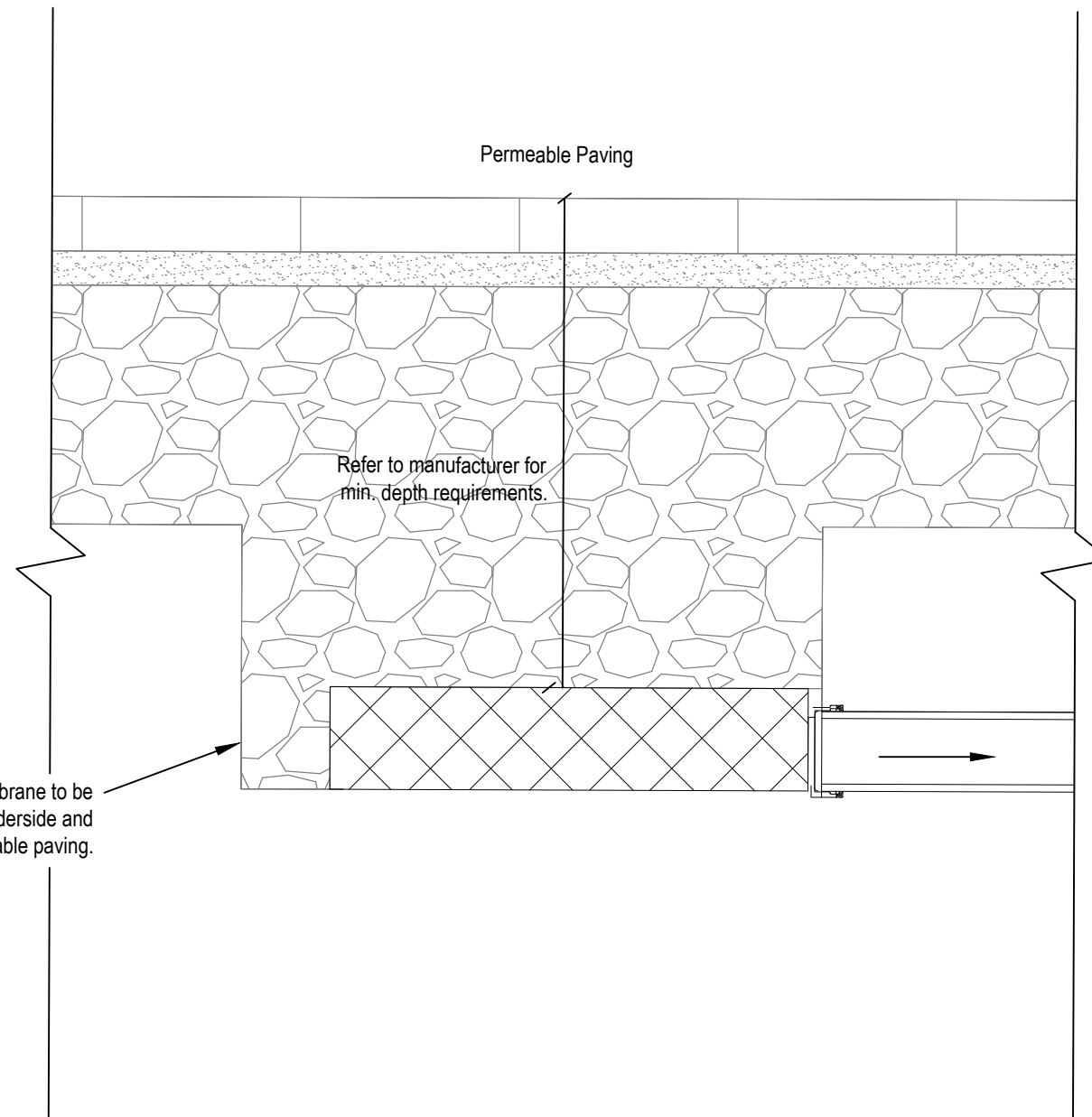
CLASS Z BEDDING
PLAIN CONCRETE BED AND SURROUND

- NOTES:
- Bedding to be used where Class S surround is not suitable.
 - Bedding beneath and at sides of the pipe to be well compacted.
 - Geotextiles may be used where directed or approved by the engineer to contain bedding material in certain soils e.g. running sand.
 - In very wet conditions, where directed or approved by the engineer a temporary land drain may be laid within the granular bed.
 - Where pipes with flexible joints are used, the concrete protection is to be interrupted over its full cross-section at intervals not exceeding 5 metres (or as directed by the engineer) by a shaped former of bitumen impregnated compressible filler. these interruptions shall coincide with pipe joints. see dimensions for pipe bedding table for thickness of compressible filler.
 - Concrete to be Class 2; sulphate resisting ST4 concrete
 - Where flexible pipes are used. care must be taken to prevent the pipes from floating.

BEDDING AND SURROUND DETAILS



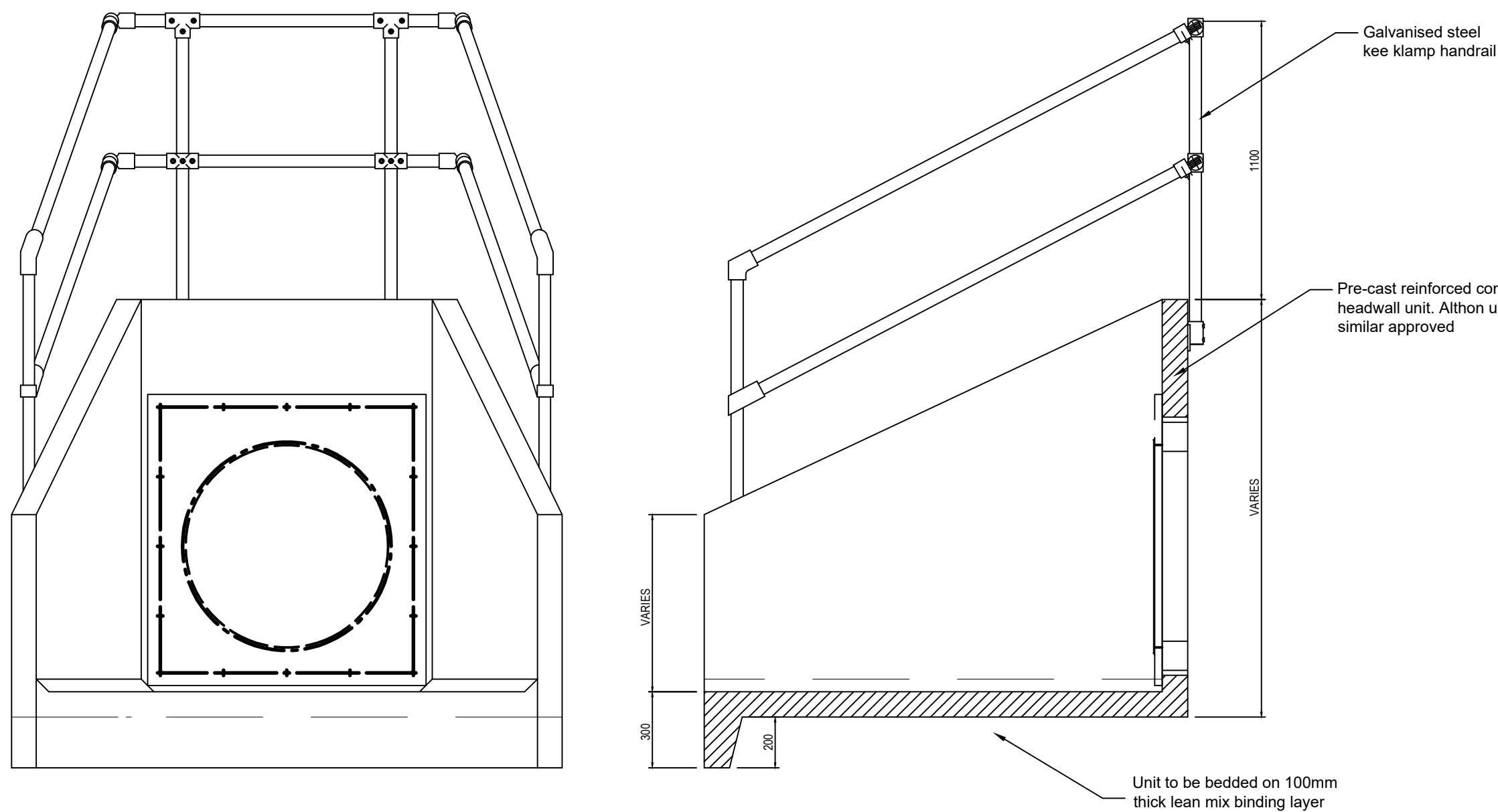
DETENTION BASIN DETAIL



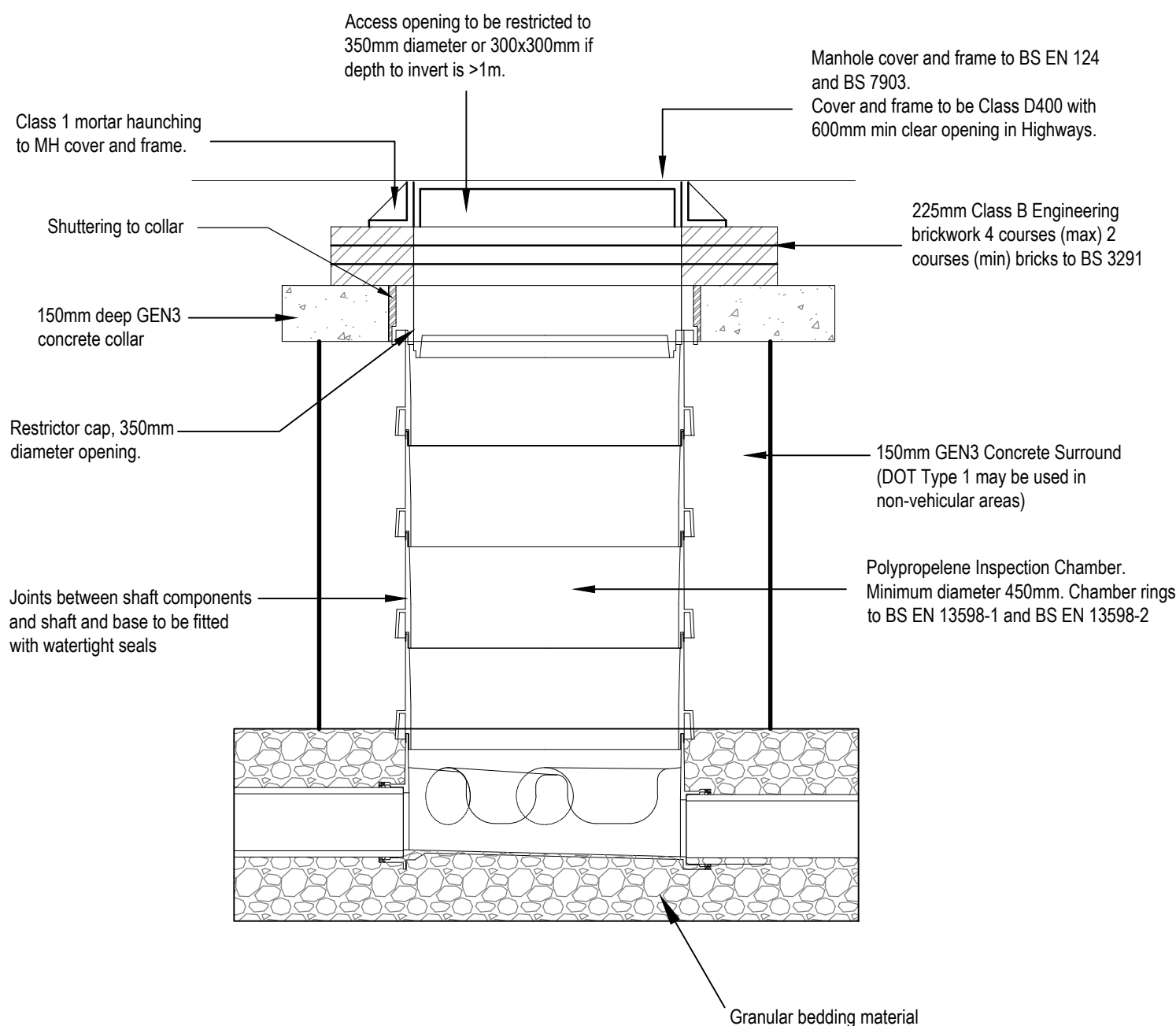
LINED PERMEABLE PAVING DETAIL
NOT TO SCALE

- GENERAL NOTES:
- Outgoing pipes greater than 600mm diameter are to be fitted with safety chains
 - Sulphate resisting portland cement shall be used for all concretes and mortars having equivalent compressive strength of 20N/mm² or greater (including precast concrete products)
 - Refer to manhole schedules for details of covers, pipe sizes, invert levels, manhole diameter etc.

Pipe dia	Effective length
150 - 600	0.60
675 - 750	1.00
825 & over	1.25



INDICATIVE OUTFALL HEADWALL



MANHOLE TYPE 3 (non-entry)
MAX DEPTH TO SOFFIT 3.0m

P1	23.11.23	Preliminary Issue	AK	KG
Rev	Date	Description	By	Apvd

PROJECT:
CHALCROFT BUSINESS PARK
UNIT 10

TITLE:
DRAINAGE DETAILS - SHEET 1

CLIENT:
FIPWEL

SCALE@A1:
NTS

PROJECT REF:
23245

DRAWING No:
JUBB_XX_XX_DR_C_0550

REV:
P1

Revision Referencing
P = Preliminary A = Approval T = Tender C = Construction

Jubb