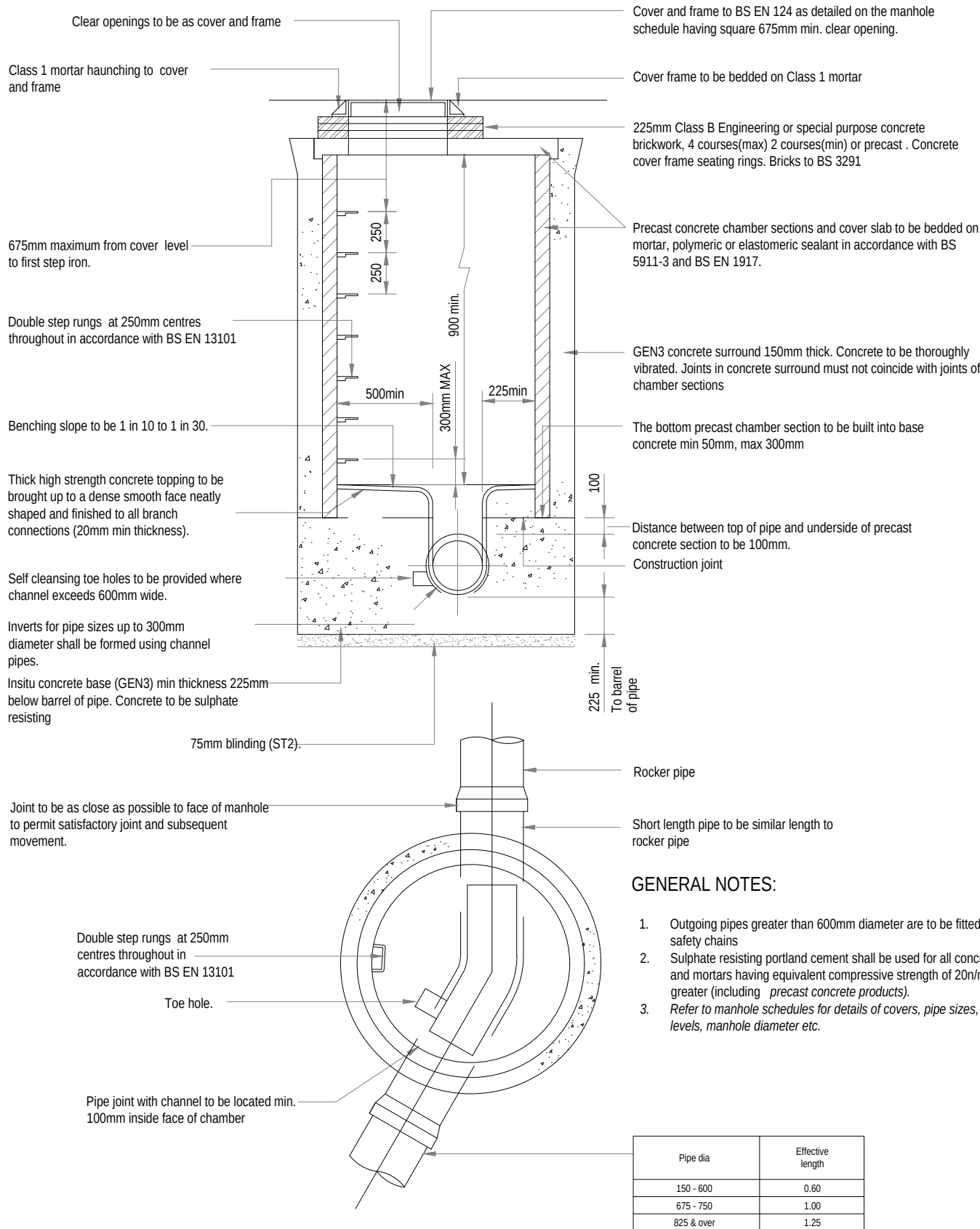
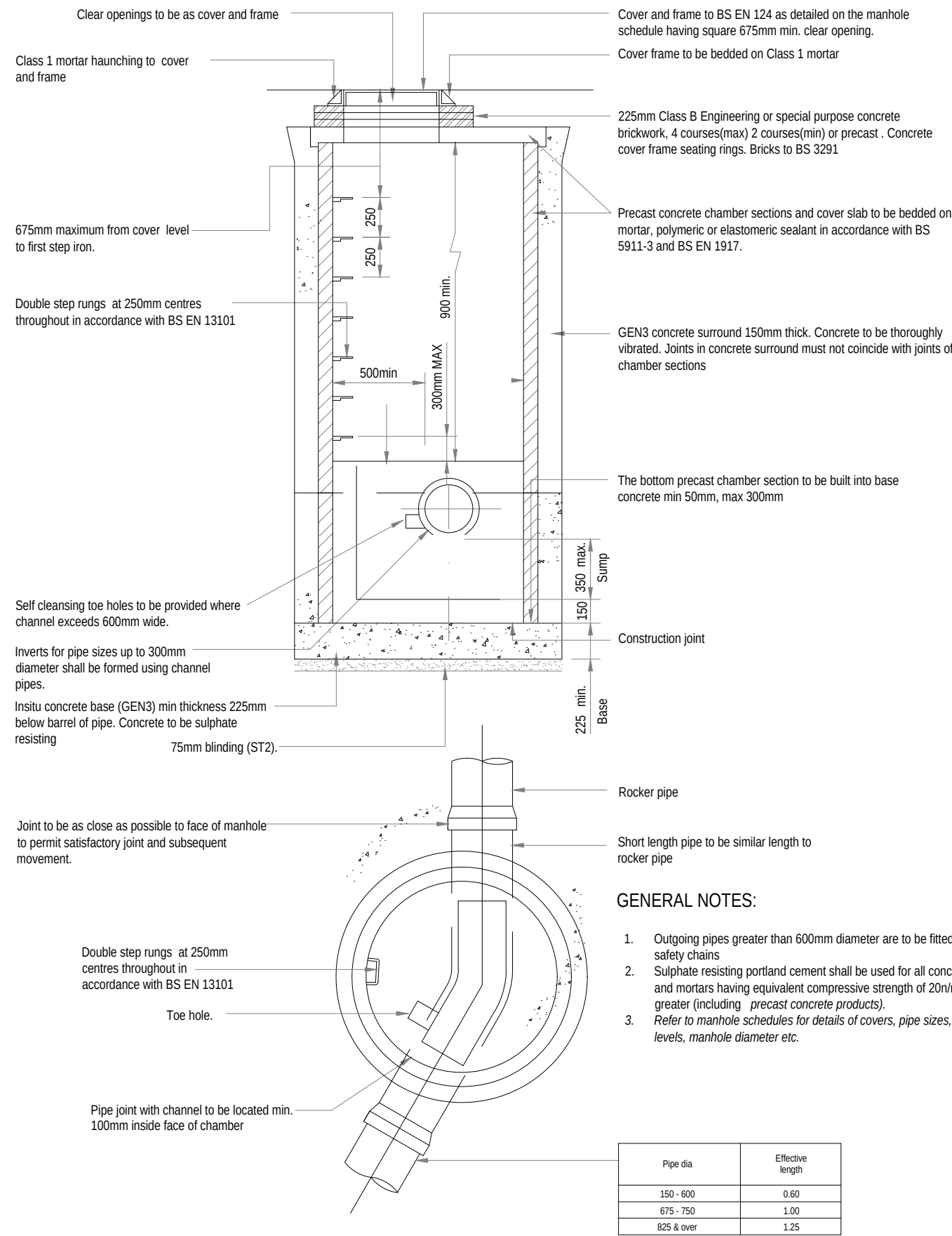
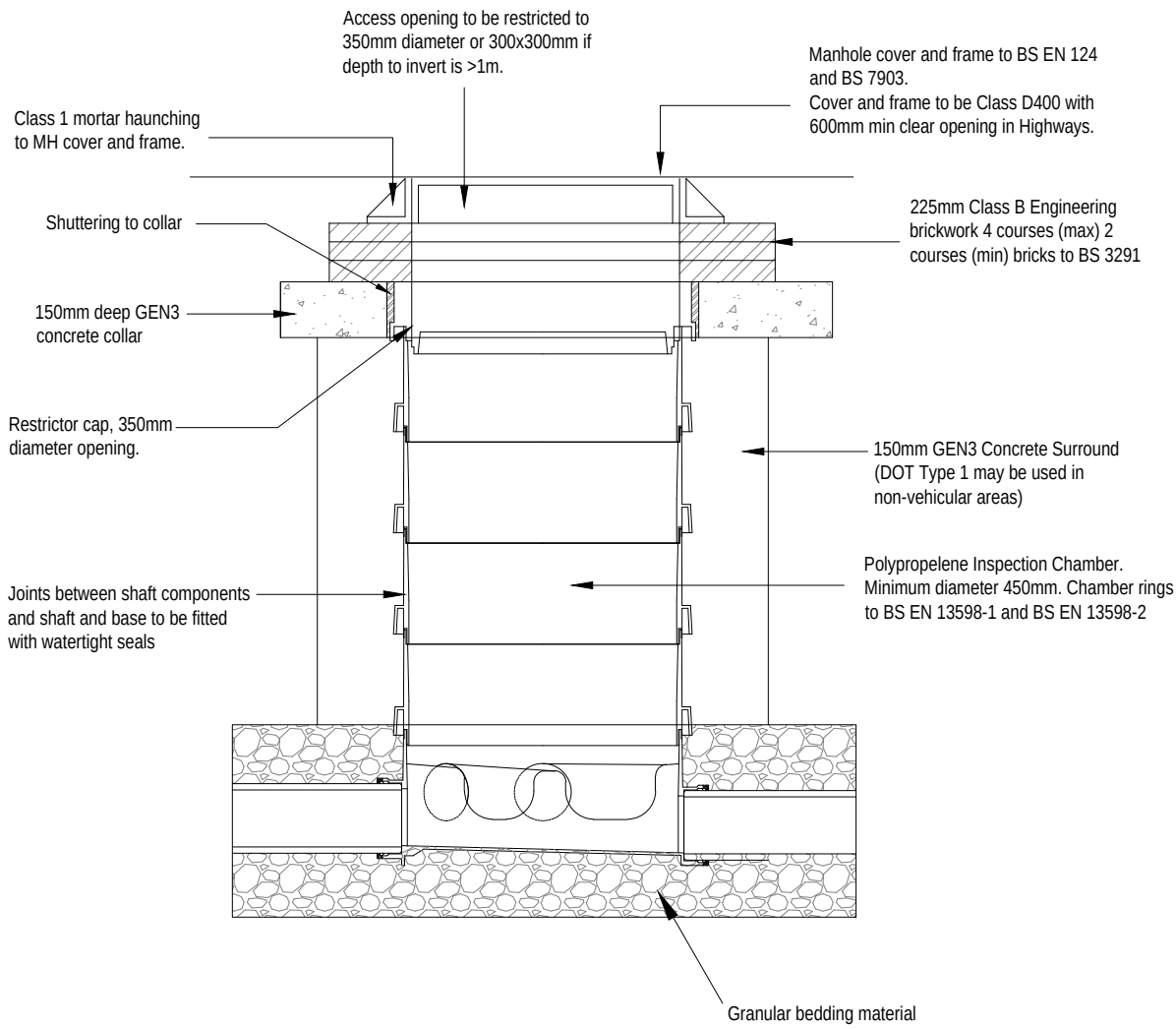




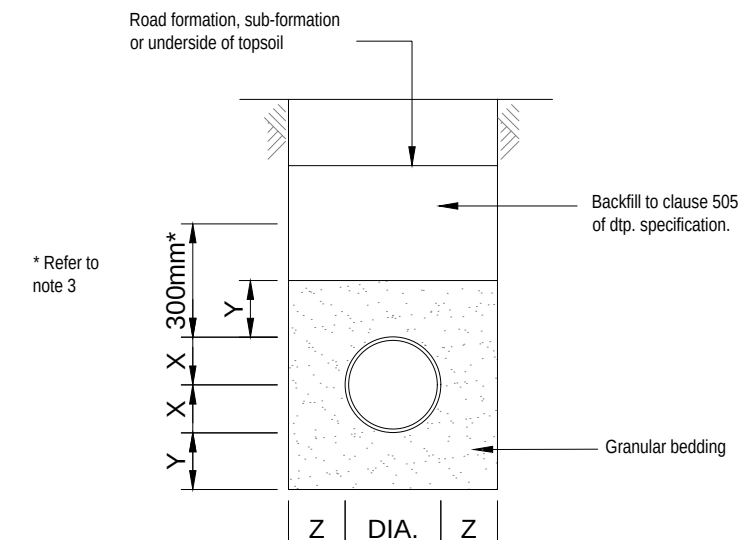
MANHOLE - TYPE B
DEPTH TO SOFFIT = 1.5-3.0m



MANHOLE - CATCHPIT TYPE B
DEPTH TO SOFFIT = 3.0m MAXIMUM



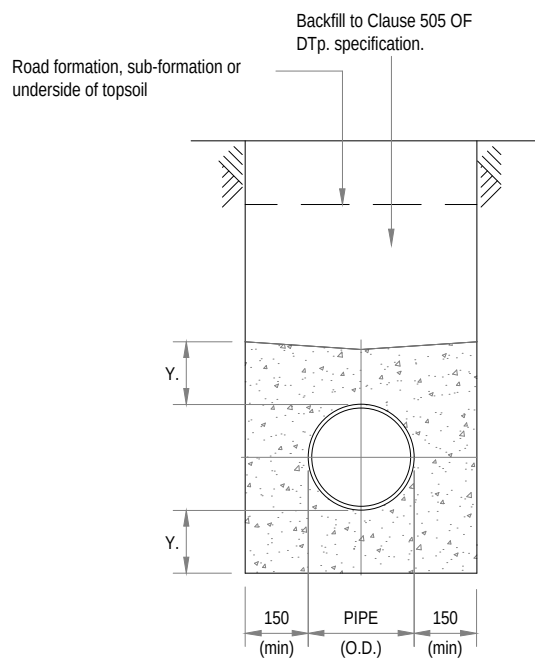
MANHOLE TYPE D (non-entry)
MAX DEPTH TO SOFFIT 2.0m



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

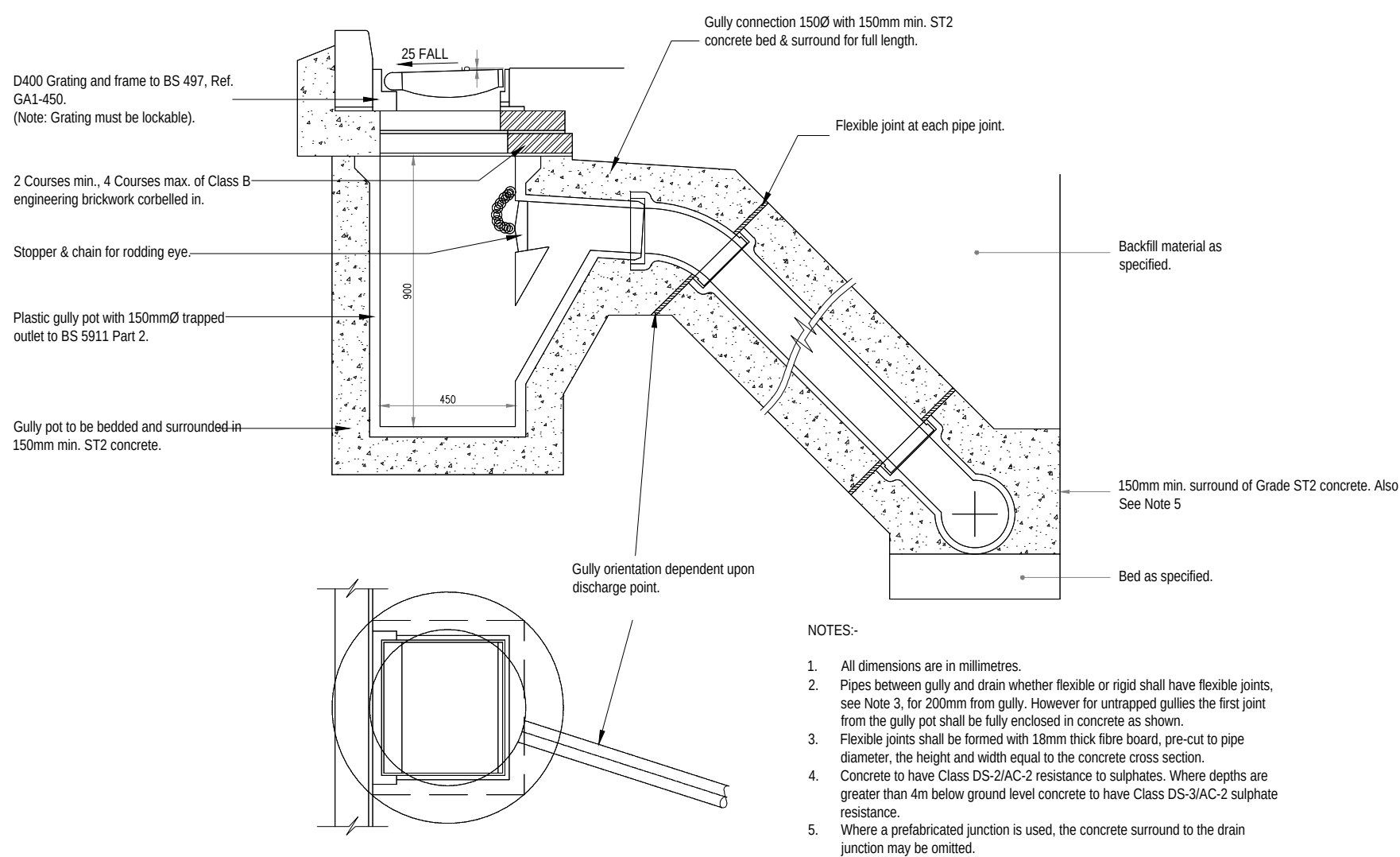
X = Half of outside diameter of pipe
Y = Refer to pipe bedding dimension table
Z = Minimum 150mm

- NOTES:
- Refer to tables for dimensions and bedding details
 - Bedding beneath and at the sides of the pipe is 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:
- Refer to tables for dimension and bedding materials.
 - 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.



GULLY DETAIL

Pipe diameter	Y Minimum		Maximum trench width.	L
	Y1 min.	Y2 min.		
100	150	200	700	18
150	150	200	750	18
200	150	200	800	18
225	150	200	825	18
250	150	200	850	18
300	150	200	925	18
350	150	200	1000	18
375	150	200	1025	18
400	150	200	1090	18
450	150	200	1175	36
500	150	200	1240	36
525	150	250	1270	36
600	150	250	1370	36
675	150	250	1420	36
700	225	300	1460	36
750	225	300	1500	36
800	225	300	1560	36
825	225	300	1585	36
900	225	300	1675	36
975	225	300	1805	36
1050	225	300	1865	36
1125	225	350	1950	36
1200	375	350	2035	36
1350	375	400	2220	54
1500	375	450	2340	54
1650	375	500	2510	54
1800	375	500	2690	54

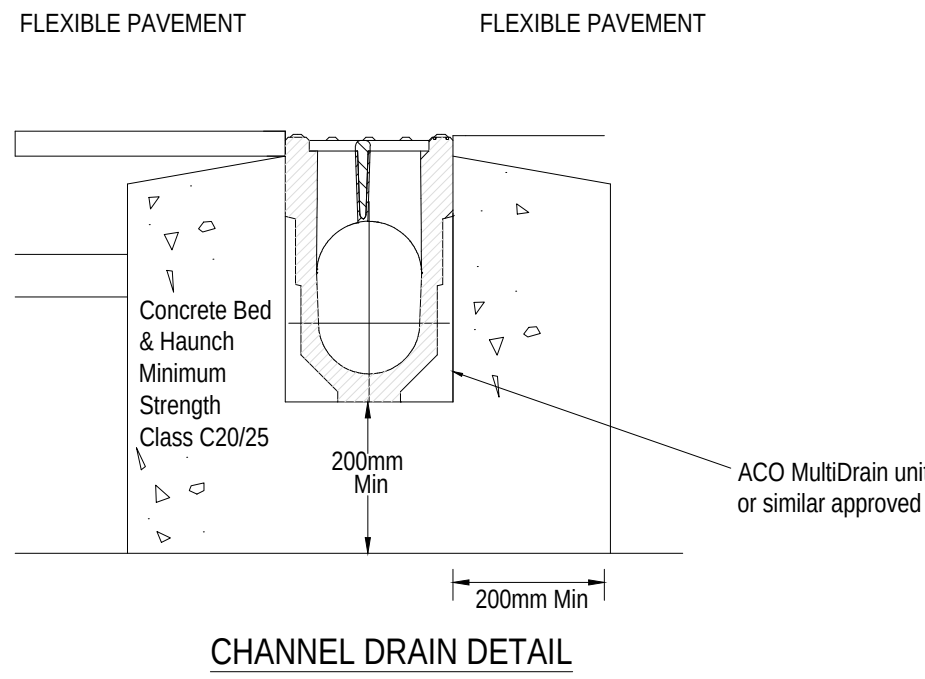
- NOTES:
- All dimensions are in millimetres.
 - Dimension Y1 shall be used unless Y2 is specified or is directed by the engineer.
 - Dimension Y2 shall be used in place of Y1 where the excavation is in rock or in mixed soils containing rock beds, boulders, large flints or other irregular hard spots.
 - Dimension Y2 shall be increased by 40mm for each additional 1.0m of cover in excess of 5.0m.
 - Dimension L is the width of compressible filler required at joints in concrete

PIPE BEDDING DIMENSIONS

Pipe diameter	Class of bedding	Imported granular material (note 1)
100	S B	10mm nominal size
Over 100 to 150	S B	10 or 14mm nom. single size or 14 to 5mm graded
Over 150 to 500	S B	10,14,20mm nom. single size or 14 to 5mm graded or 20 to 5mm graded
Over 500 (Note 2)	S B	10,14,20mm nom. single size crushed rock or 14 to 5mm graded or 20 to 5mm graded or 40 to 5mm graded

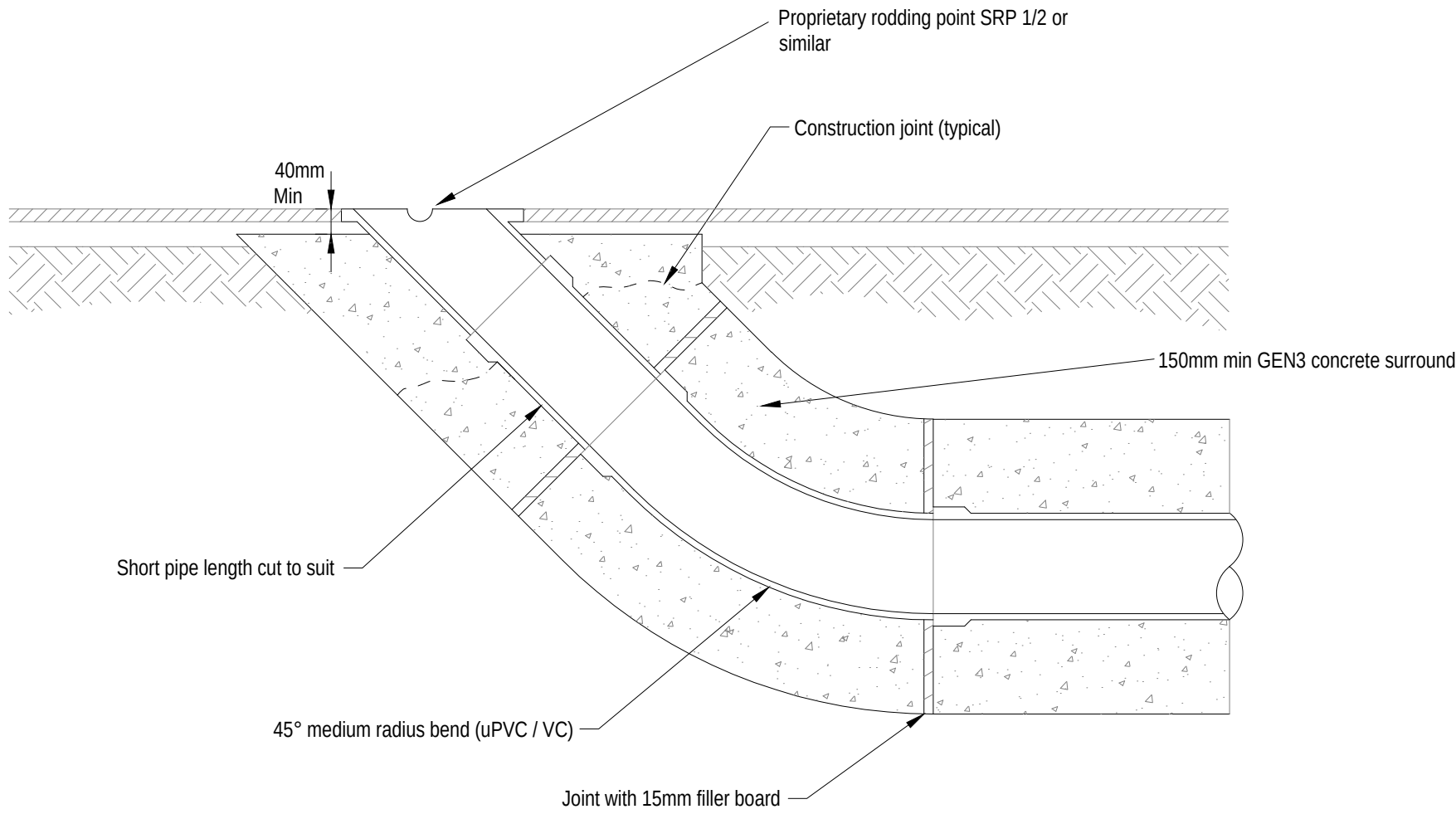
- NOTES:
- Imported granular materials to include aggregates to BS 882, air-cooled blast furnace slag to BS 1047 & sintered pulverized fuel ash to BS.3797.
 - Angular materials should be chosen to ensure sufficient support is provided to heavier pipes.
 - Class S bedding shall be used with flexible pipes.

GRANULAR BEDDING AND SIDEFILL MATERIALS



CHANNEL DRAIN DETAIL

- Note
- See manufacturers installation instructions for details of mastic jointing material etc.
 - See DWG 500 for details of channel drain positions.



RODDING EYE NOT TO SCALE

T3	06.05.24	Changed to sheet 1	MB	MB
T2	17.01.24	Rodding eye added	MB	MB
T1	17.11.23	Tender issue	MB	MB

Rev Date Description By Apvd

PROJECT:
NIGHTINGALE AVE, EASTLEIGH

TITLE:
DRAINAGE DETAILS
SHEET 1

CLIENT:
DOSWELL PROJECTS

SCALE@A1:
NTS

PROJECT REF:
23270

DRAWING No:
550

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

REV:
T3

Jubb