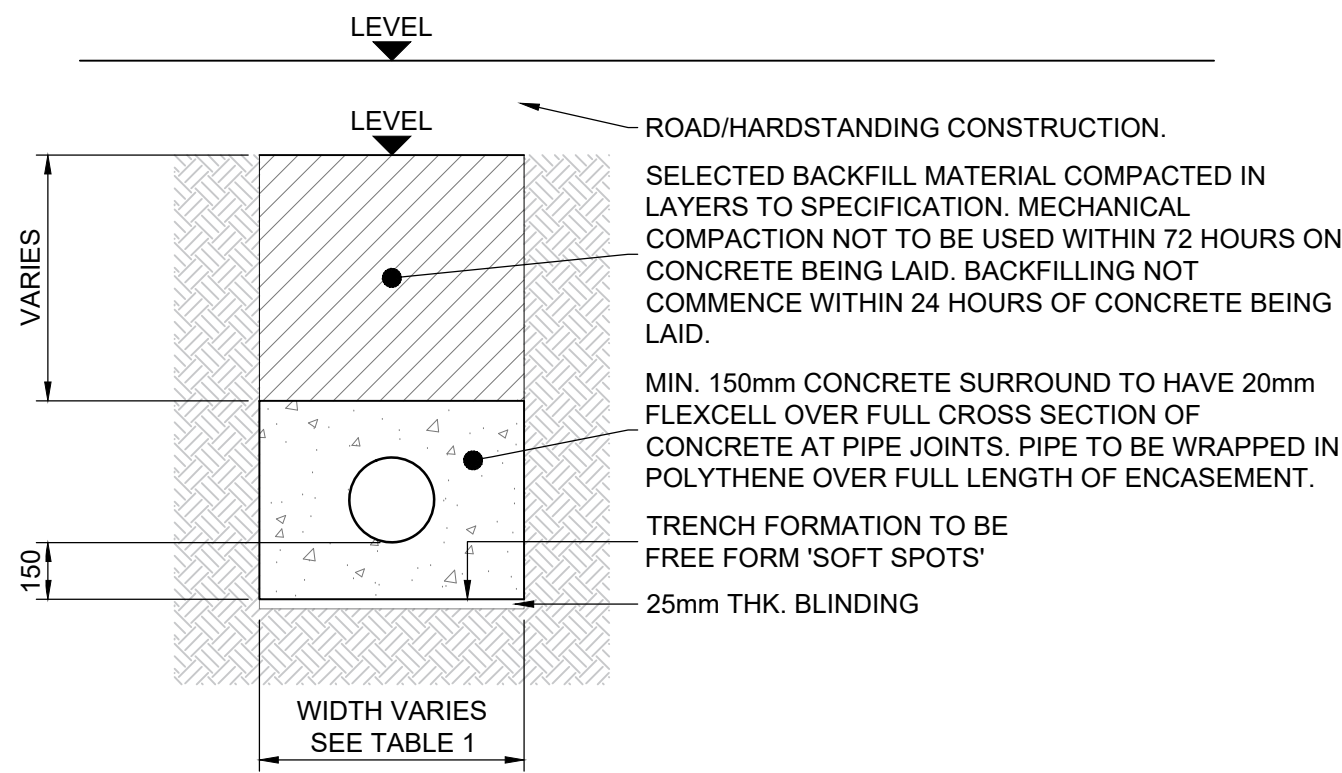
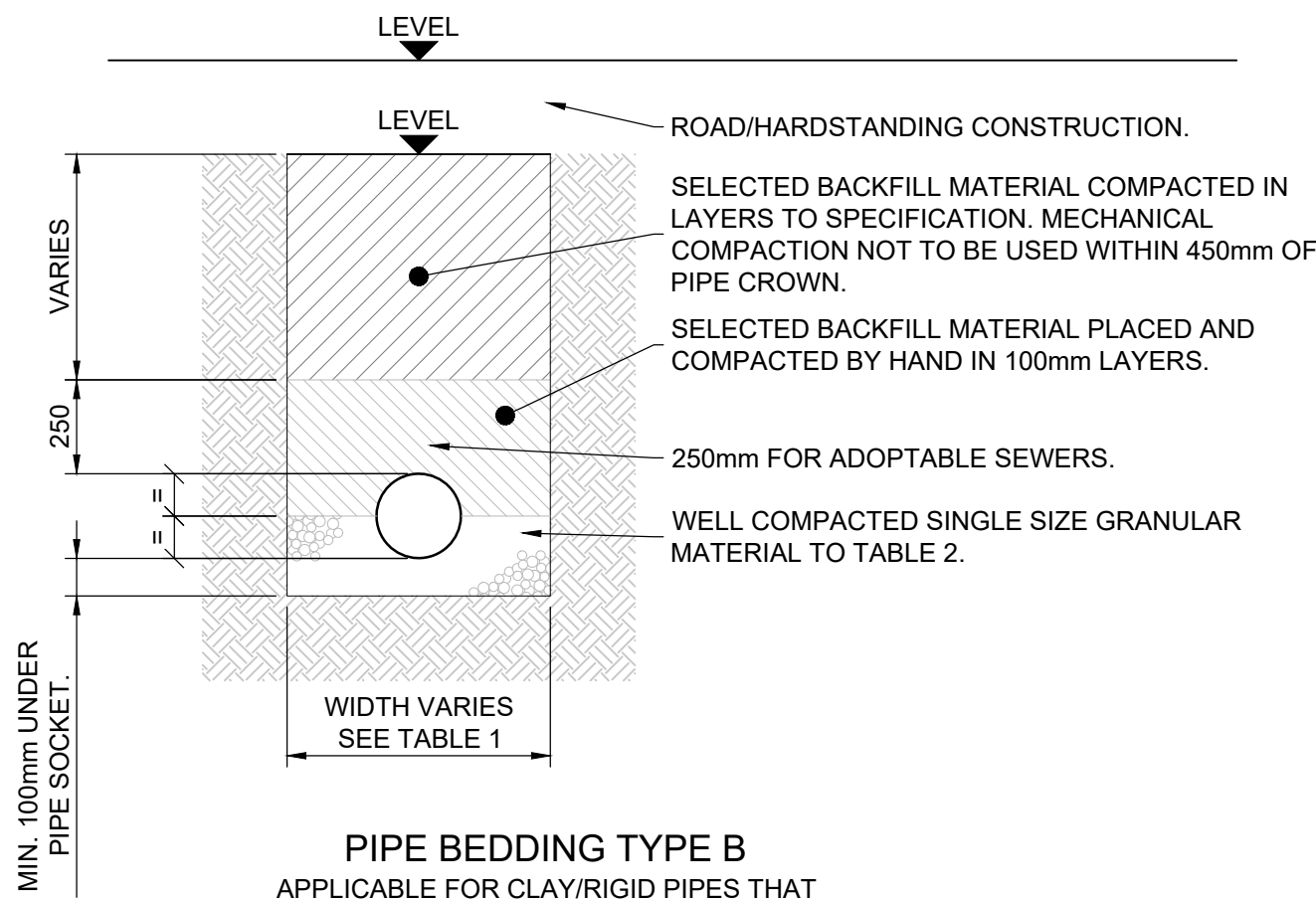
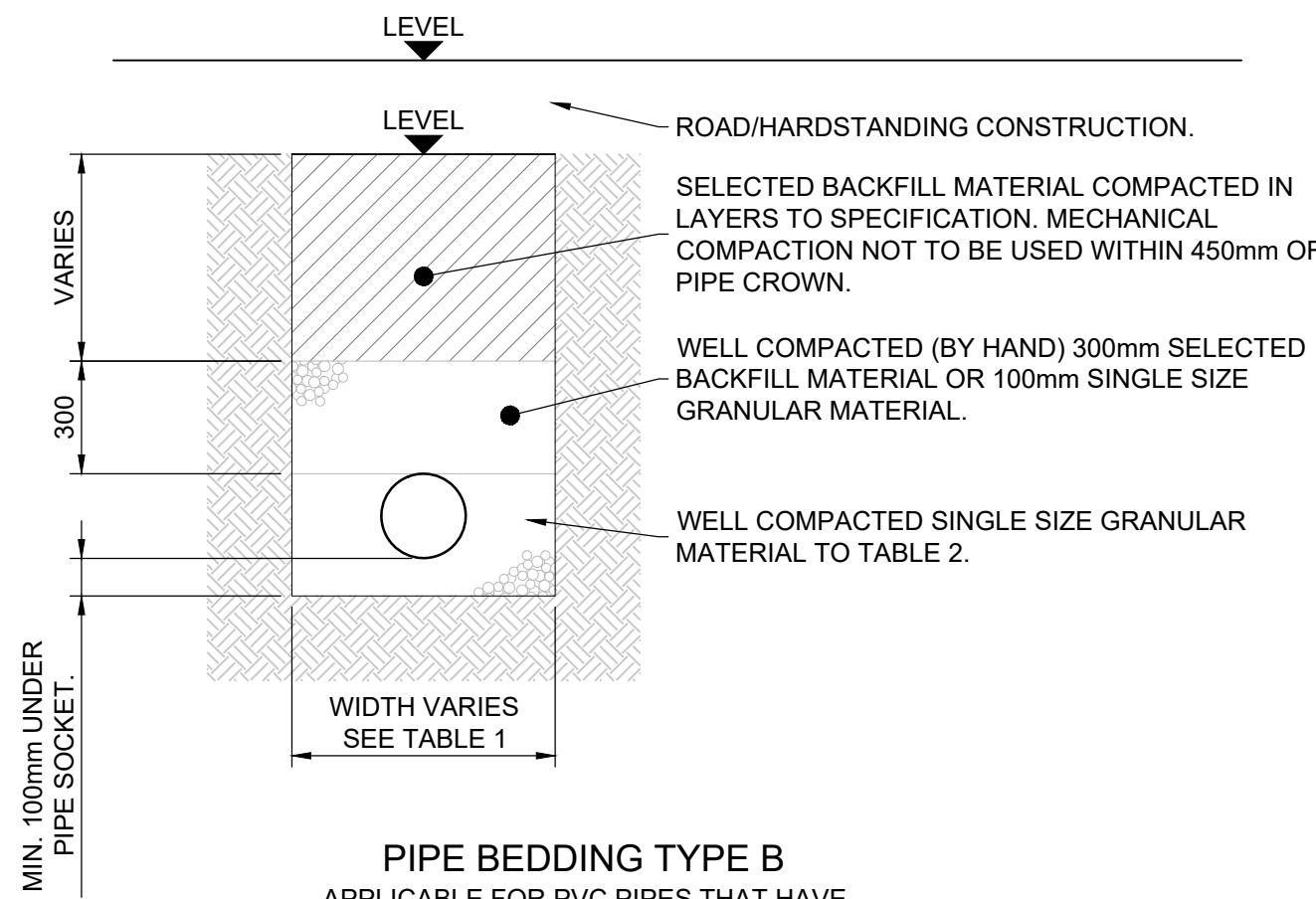




PIPE BEDDING TYPE Z
APPLICABLE UNDER PAVED AREAS WITH DRAINS HAVING LESS THAN 1200mm COVER

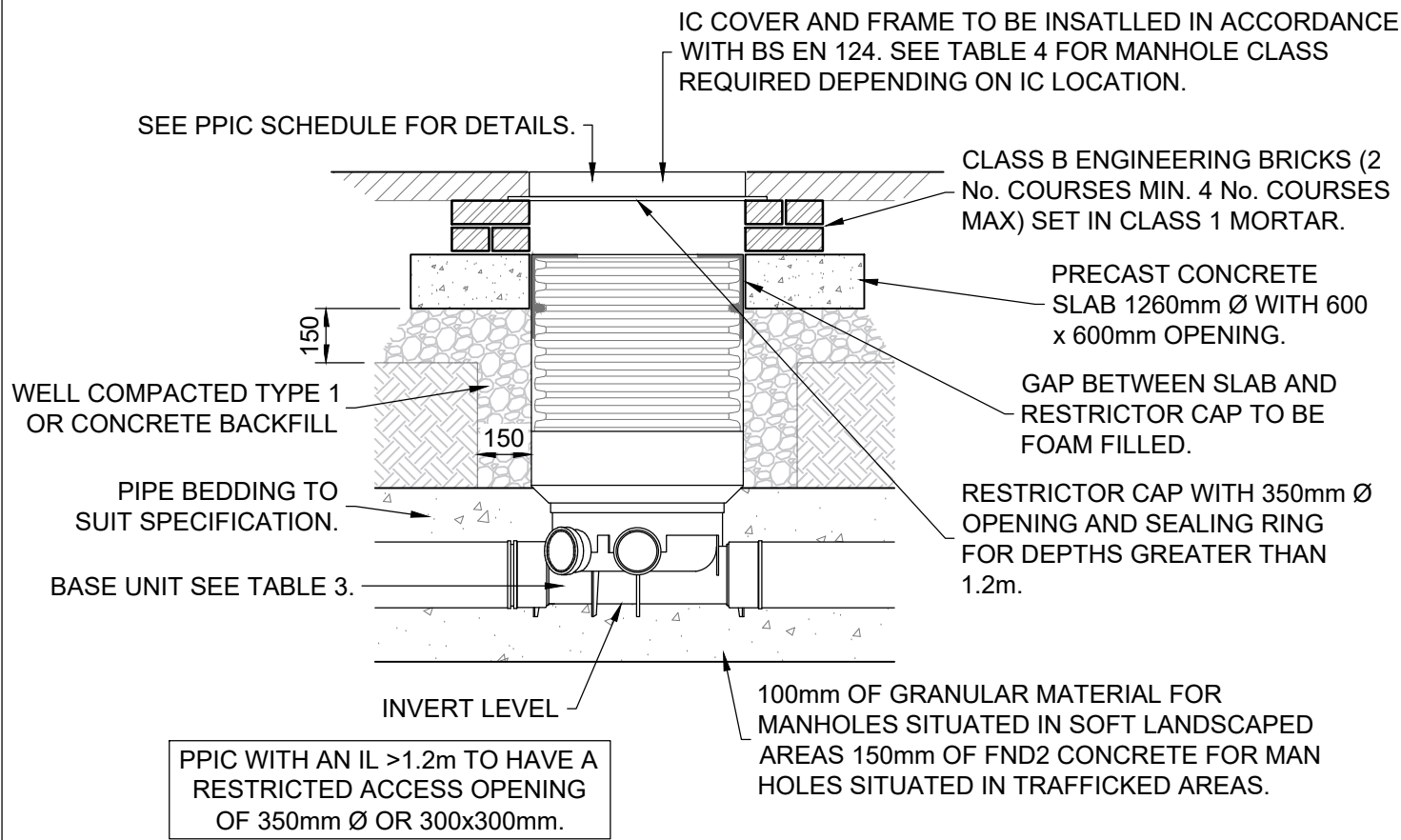


PIPE BEDDING TYPE B
APPLICABLE FOR CLAY/RIGID PIPES THAT HAVE MORE THAN 1200mm COVER

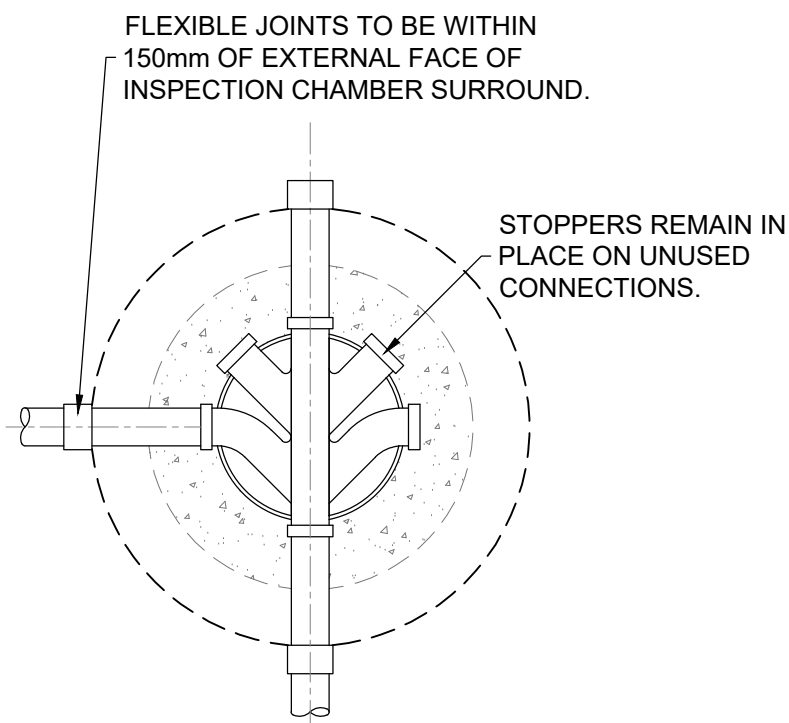


PIPE BEDDING TYPE B
APPLICABLE FOR PVC PIPES THAT HAVE MORE THAN 1200mm COVER

PIPE BEDDING DETAILS
SCALE 1:20



POLYPROPYLENE INSPECTION CHAMBER DETAIL
SCALE 1:20



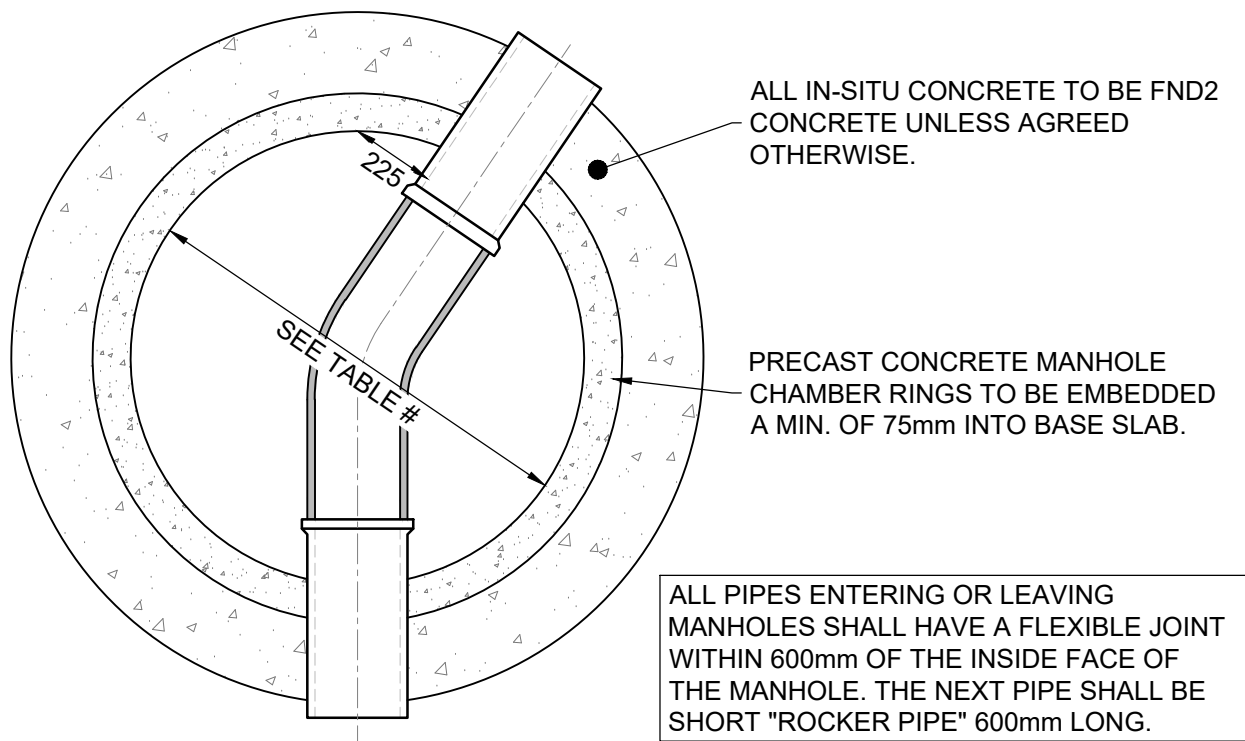
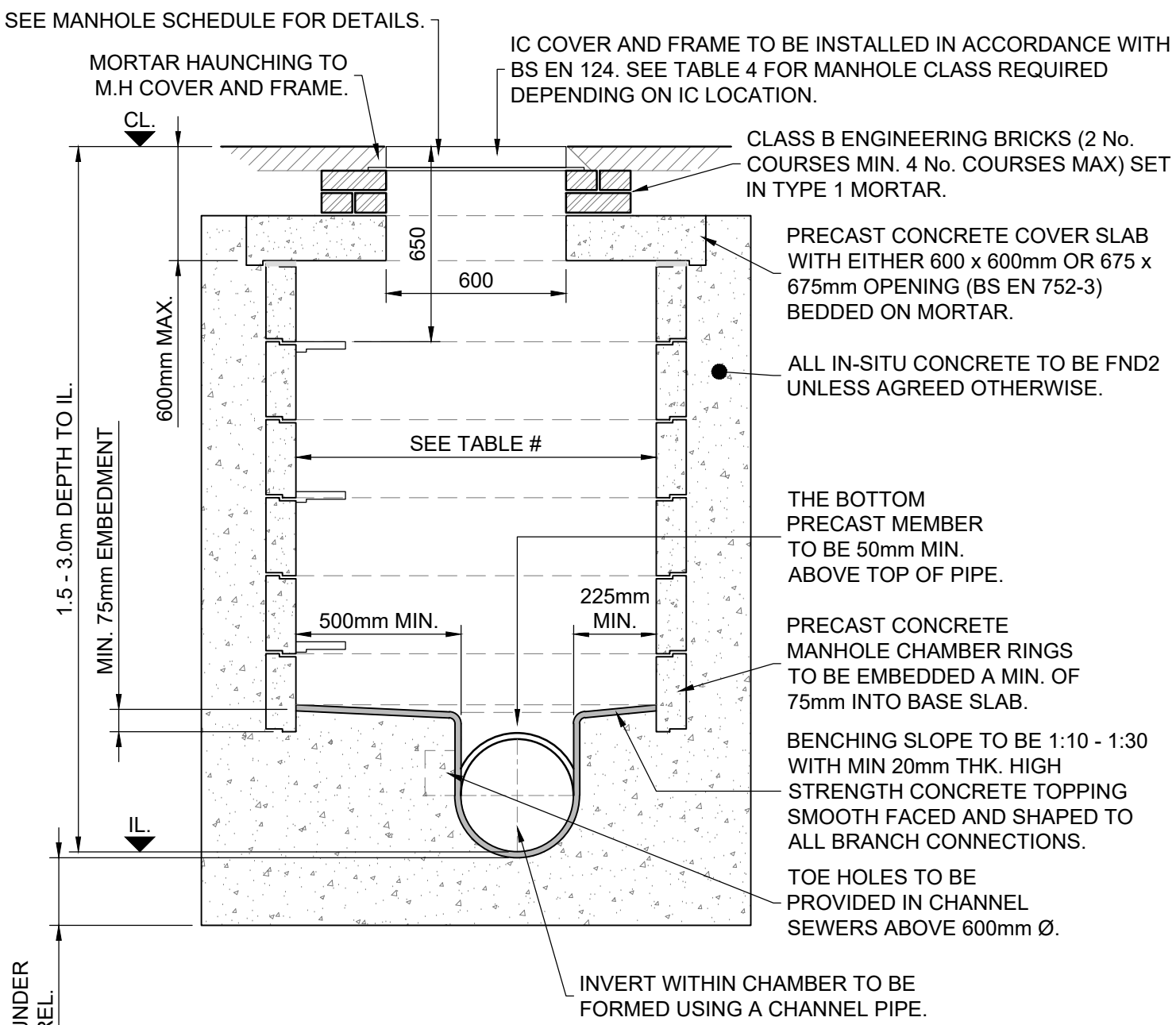
POLYPROPYLENE INSPECTION CHAMBER PLAN
SCALE 1:20

TABLE: ROCKER PIPES

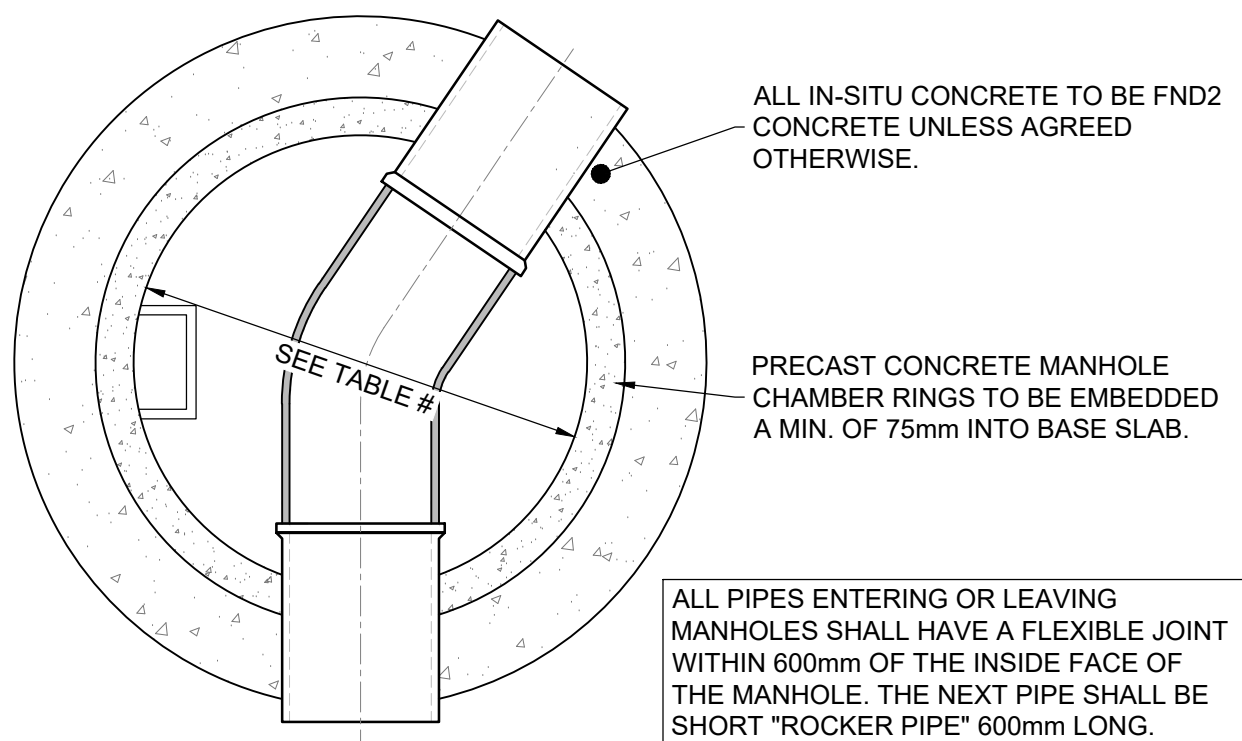
SEWER Ø	EFFECTIVE LENGTH
150 - 600mm	600mm
675 - 750mm	1000mm
825mm <	1250mm

DIMENSIONS TABLE

Type	Size of Largest Pipe (DN)	Circular Diameter	Min clear opening Rectangular 1	Circular Diameter
<1.5m to soffit	150	1050 1	750 x 675 2	na 3
	225	1200	1200 x 675 2	
	300	1200		
	>300	Larger of 1800 or (DN+450)		
>1.5m to soffit	225	1200	600 x 600	600
	300	1200		
	375-450	1200		
	>450	Larger of 1800 or (DN+775)		



MANHOLE TYPE A
DEPTH TO INVERT LEVEL 1.0 - 1.5m
SCALE 1:20



MANHOLE TYPE B
DEPTH TO INVERT LEVEL 1.5 - 3m
SCALE 1:20

NOTES

- DO NOT SCALE OFF THIS DRAWING.
- SHOULD THERE BE ANY CONFLICT BETWEEN THE DETAILS INDICATED ON THIS DRAWING AND THOSE INDICATED ON OTHER DRAWINGS THE ENGINEER SHOULD BE INFORMED PRIOR TO CONSTRUCTION ON SITE.
- ALL DRAWINGS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXECUTE THE WORKS AT ALL TIMES IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE HEALTH AND SAFETY AT WORK ACT 1974 AND CDM REGULATIONS 2015.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
- ALL DRAINAGE IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE BUILDING REGULATIONS.
- DRAINAGE ON SITE IS CONSIDERED AS PRIVATE, AND IS NOT SUBJECT TO BEING ADOPTED.
- ALL MANHOLE COVER LEVELS ARE APPROXIMATE.
- ALL RAINWATER DOWNPIPES TO BE FITTED WITH A RODDING FACILITY LOCATED ABOVE GROUND LEVEL.
- SURFACE WATER DRAINAGE HAS BEEN DESIGNED TO SATISFY THE FOLLOWING CRITERIA:
 - NO SURCHARGE DURING A 1 IN 2 YEAR STORM + 10% URBAN CREEP
 - NO SITE FLOODING DURING A 1 IN 30 YEAR STORM + 10% URBAN CREEP
 - NO OFF-SITE OR BUILDING FLOODING DURING A 1 IN 100 YEAR STORM + 10% URBAN CREEP + 30% CCALL OF THE ABOVE HAVE BEEN CHECKED UNDER THE FOLLOWING STORM DURATIONS:
15 MINUTES, 30 MINUTES, 60 MINUTES, 120 MINUTES, 240 MINUTES, 360 MINUTES, 480 MINUTES, 960 MINUTE AND 1440 MINUTES.

SAFETY, HEALTH AND ENVIRONMENTAL

IN ADDITION TO THE HAZARDS OR RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, THE FOLLOWING SIGNIFICANT RESIDUAL RISKS SHOULD BE NOTED.

CONSTRUCTION:

CONSTRUCTION:

MAINTENANCE, CLEANING AND OPERATION :

DECOMMISSIONING OR DEMOLITION :

PRELIMINARY

TABLE 1: TRENCH WIDTHS	
Ø OF DRAIN	WIDTH OF TRENCH
100mm	450mm
150mm	600mm
225mm	700mm
300mm	750mm
375mm	1050mm
375mm	1050mm
525mm	1200mm
600mm	1350mm
675mm	1450mm
750mm	1500mm
825mm	1600mm
900mm	1900mm
975mm	2000mm
1050mm	2300mm
1200mm	2300mm
> 1200mm	Ø +1100mm

TABLE 2: NOMINAL MAXIMUN AGGREGATE SIZE (mm) BS 882 GRADING		
Ø OF DRAIN	AGGREGATE	BEDDING CLASS B/O
100mm	SINGLE SIZED GRADED	10
		-
150mm	SINGLE SIZED GRADED	10 TO 14
		14 TO 5
225mm	SINGLE SIZED GRADED	10, 14 OR 20
		14 TO 5 OR 20 TO 5
300mm	SINGLE SIZED GRADED	10, 14 OR 20
		14 TO 5 OR 20 TO 5

TABLE 3: PPIC BASE UNIT TYPES		
BASE UNIT TYPE	PIPE SIZE	NUMBER OF CONNECTIONS
SP IC1/1	100mm Ø	6
SP IC1/2	100mm Ø	6
SP IC2/1	150mm Ø	4

TABLE 4: BS EN 124 MANHOLE CLASSES		
GROUP	MINIMUM CLASS	DESCRIPTION
1	A15	FOR USE IN AREAS WHERE ONLY PEDESTRIANS HAVE ACCESS.
2	B125	FOR USE IN CAR PARKS AND PEDESTRIAN AREAS WHERE ONLY OCCASIONAL VEHICULAR ACCESS IS LIKELY.
3	C250	FOR USE IN CAR PARKS, FORECOURTS, INDUSTRIAL SITES AND AREAS WITH SLOW MOVING TRAFFIC ALSO IN HIGHWAY LOCATIONS UP TO 500mm FROM THE KERB AND UP TO 200mm INTO THE VERGE, EXCLUDING MOTORWAYS.
4	D400	FOR USE IN AREAS WHERE CARS AND LORRIES HAVE ACCESS, INCLUDING CARRIAGEWAYS, HARD SHOULDERS AND EDESTRIAN AREAS.
5	E600	FOR USE IN AREAS WHERE HIGH WHEEL LOADS ARE IMPOSED SUCH AS LOADING AREAS, DOCKS OR AIRCRAFT PAVEMENTS
6	F900	FOR USE IN AREAS WHERE PARTICULARLY HIGH WHEEL LOADS ARE IMPOSED SUCH AS AIRCRAFT PAVEMENTS.

-	FIRST ISSUE	TS	TF	TF	27/11/20
REV	DESCRIPTION	BY	CHK	APP	DATE
REVISION TABLE					
HBPW CONSULTING ENGINEERS		43 BRIDGEGATE RETFORD NOTTINGHAMSHIRE DN22 7UX TEL. (01777) 869896 www.hbpw.co.uk			

MCS PROJECTS

HBPW PROJECT NUMBER:
SL05821

PROJECT:

SAVILLE LANE

THURLSTONE, S36 9RE

DRAWING:

DRAINAGE DETAILS SHEET 1

PROJECT ENGINEER: T.STEVENS		DRAWN: T.STEVENS	
CHECKED: T.FLINT		APPROVED: T.FLINT	
DATE: 27.11.2020	SCALE: AS SHOWN	SUITABILITY: A1	REVISION: S0
DOCUMENT REFERENCE NUMBER: SL05821.501			

