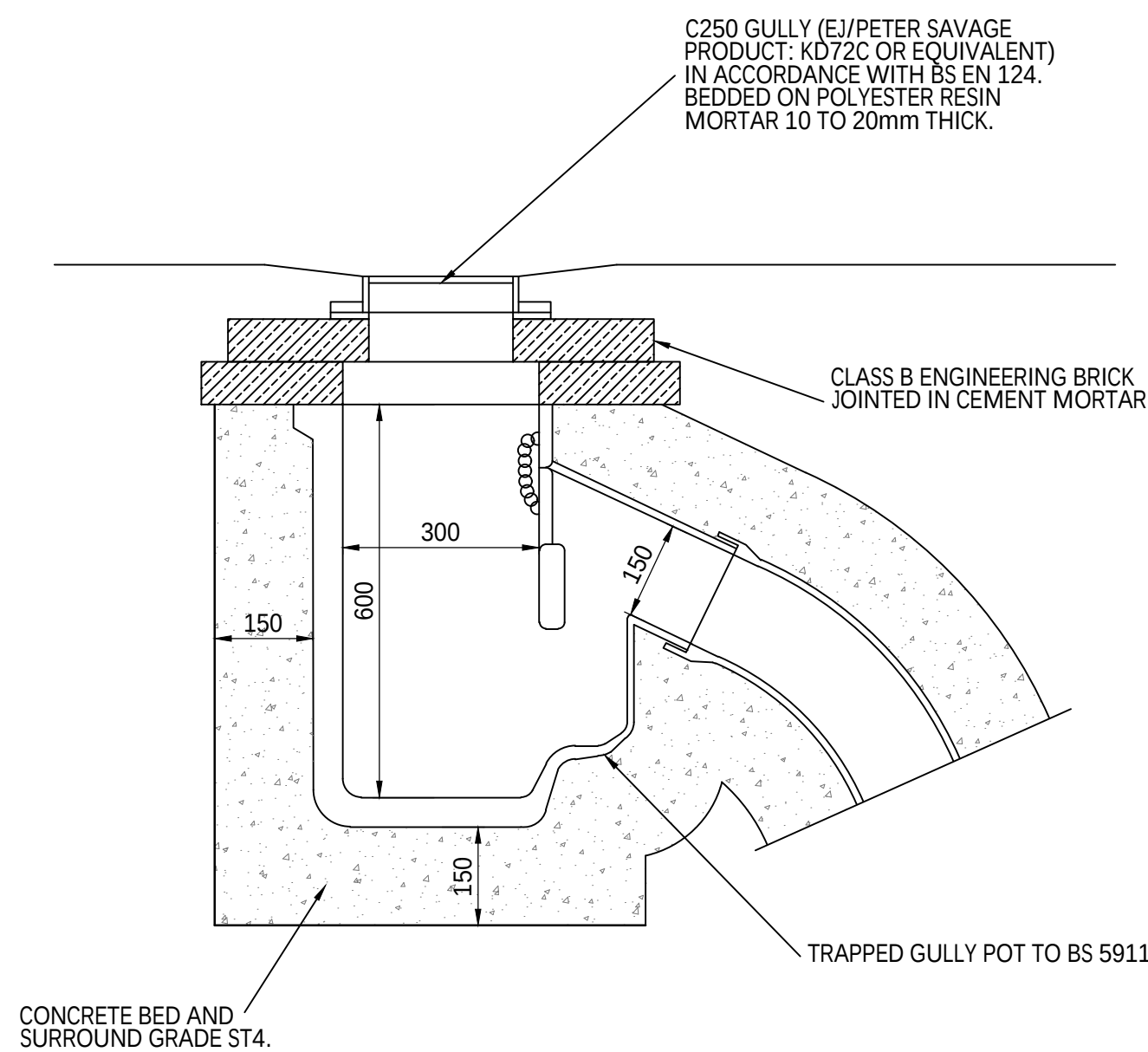


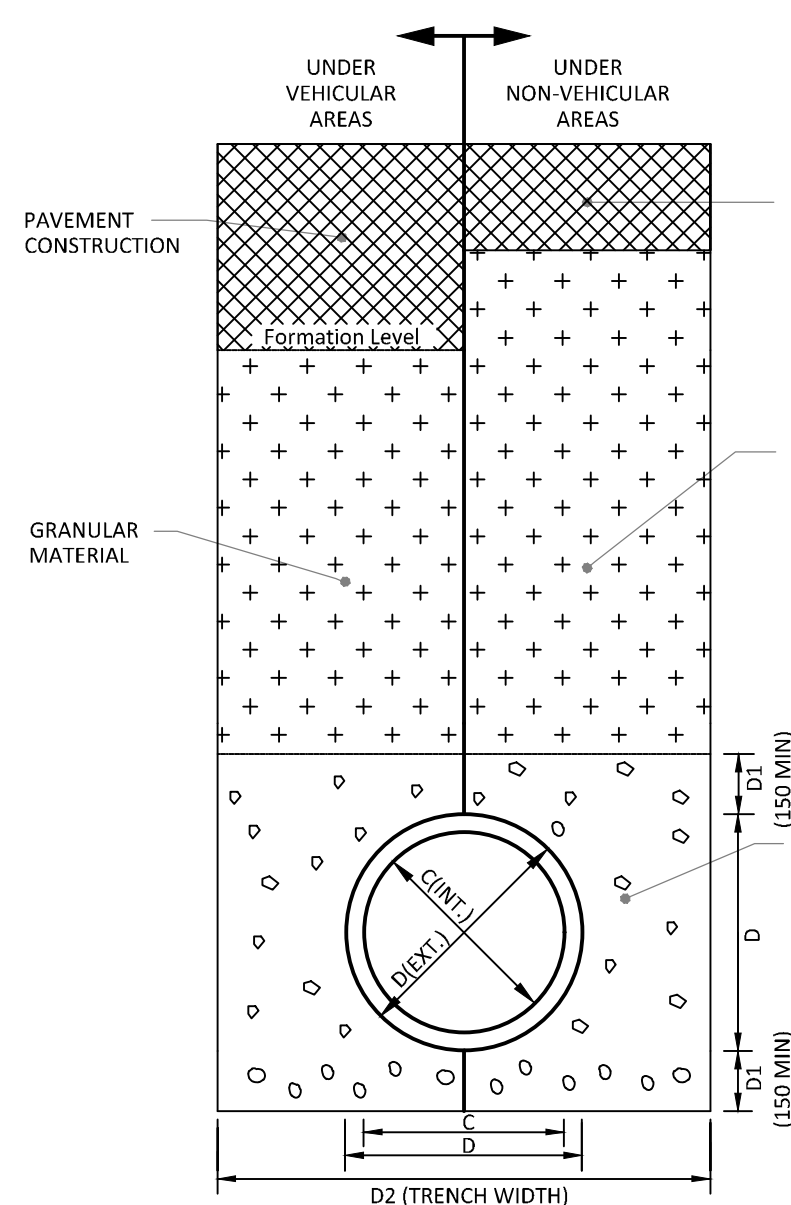


	GULLY FRAME		
SIZE OF GULLY (mm)	MIN.WIDTH	MIN.AREA OF WATERWAY	MIN.DEPTH OF FRAME
450x900 DEEP	450mm	900cm ²	75mm

NOTES

1. GULLY, GRATING AND FRAME TO COMPLY WITH BS EN 124
2. BACKFILL TO GULLY CONNECTIONS BELOW FORMATION IN CARRIAGEWAYS SHALL BE TYPE 1 SUB-BASE MATERIAL. WHERE MECHANICAL COMPACTION IS IMPRACTICAL THE BACKFILLING SHALL BE GRADE C10P/20 CONCRETE.
3. GULLY GRATING AND FRAME TO BE HINGED TYPE.

TYPICAL ROAD GULLY DETAIL

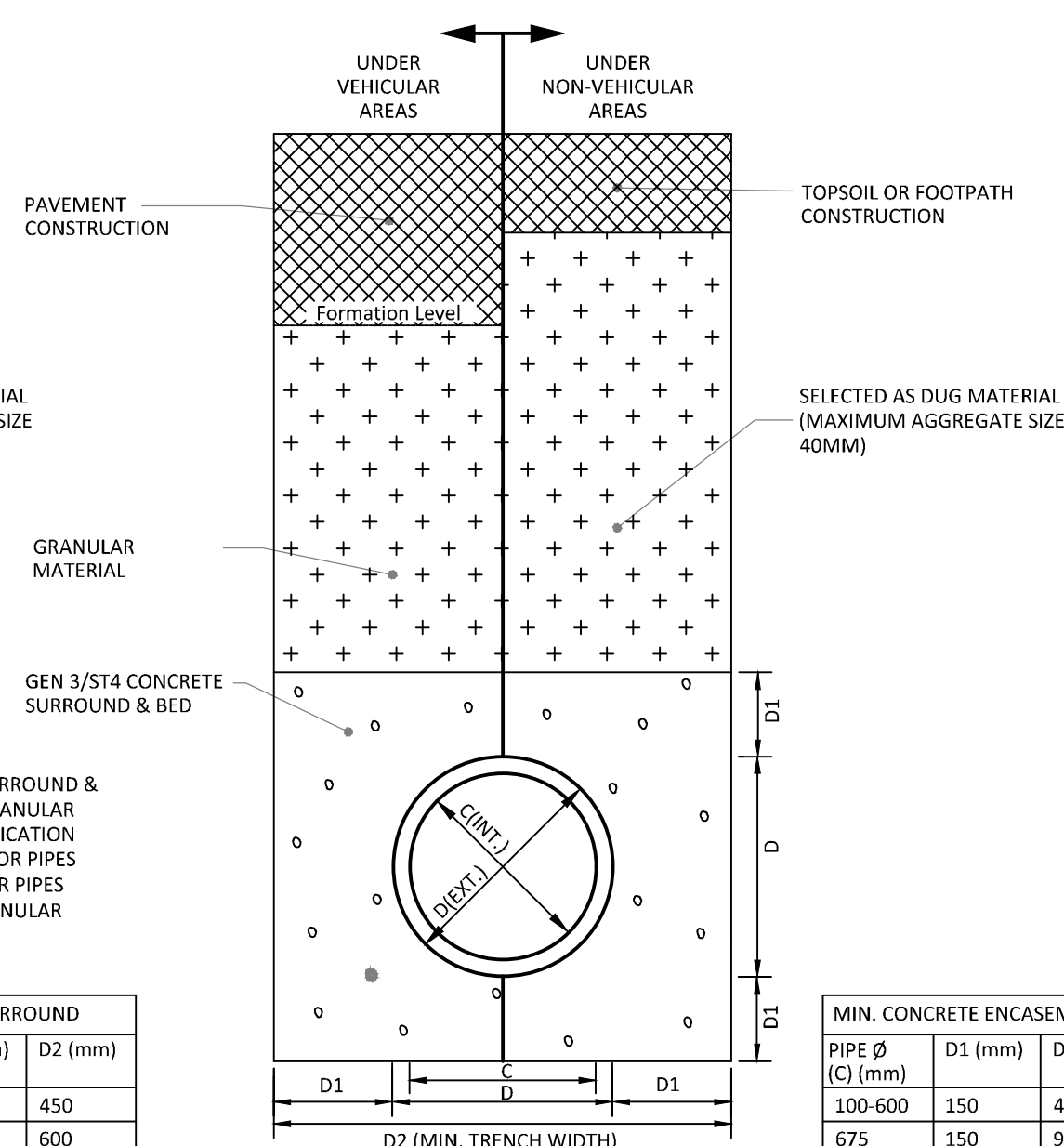


TO BE USED UNDER:

1. VEHICULAR AREAS WHERE COVER TO PIPE SOFFIT IS GREATER THAN 900mm.
2. ALL NON-VEHICULAR AREAS WHERE COVER TO PIPE SOFFIT IS GREATER THAN 350mm.

NOTE:
ALL PIPEWORK SHALL HAVE FLEXIBLE COUPLINGS

**CLASS S PIPE BEDDING & SURROUND
(TO BE USED FOR PLASTIC, VITRIFIED
CLAY & CONCRETE PIPEWORK)**



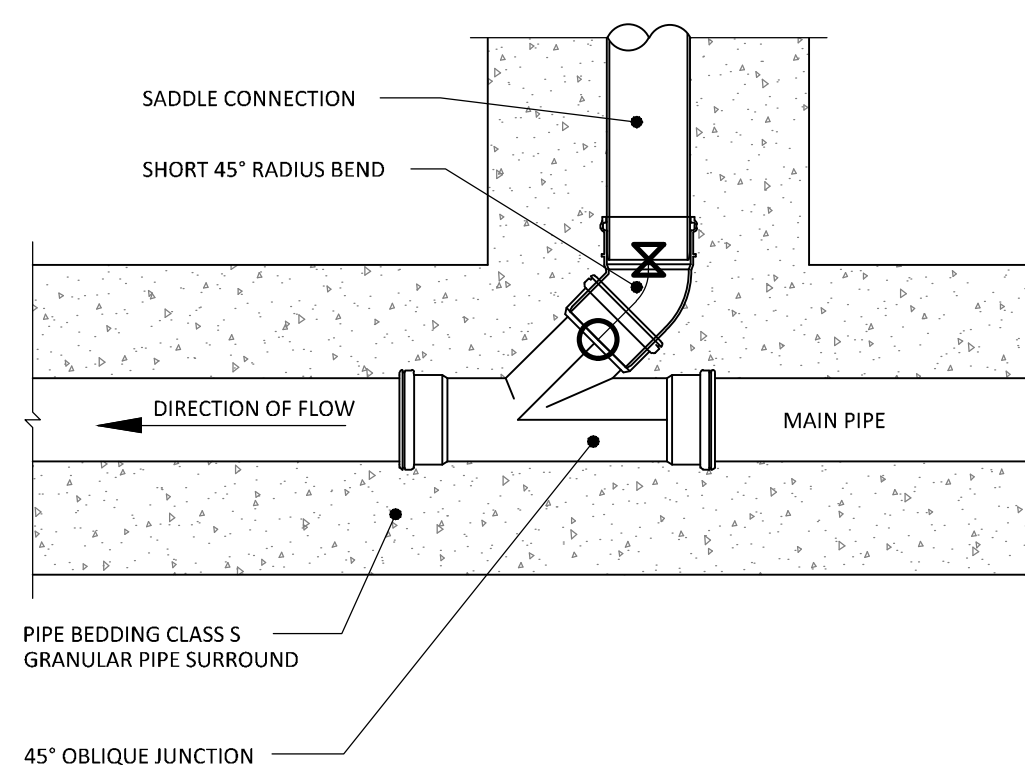
TO BE USED UNDER:

1. VEHICULAR AREAS WHERE COVER TO PIPE SOFFIT IS EQUAL TO OR LESS THAN 900mm.
2. ALL NON-VEHICULAR AREAS WHERE COVER TO PIPE SOFFIT IS EQUAL TO OR LESS THAN 350mm.

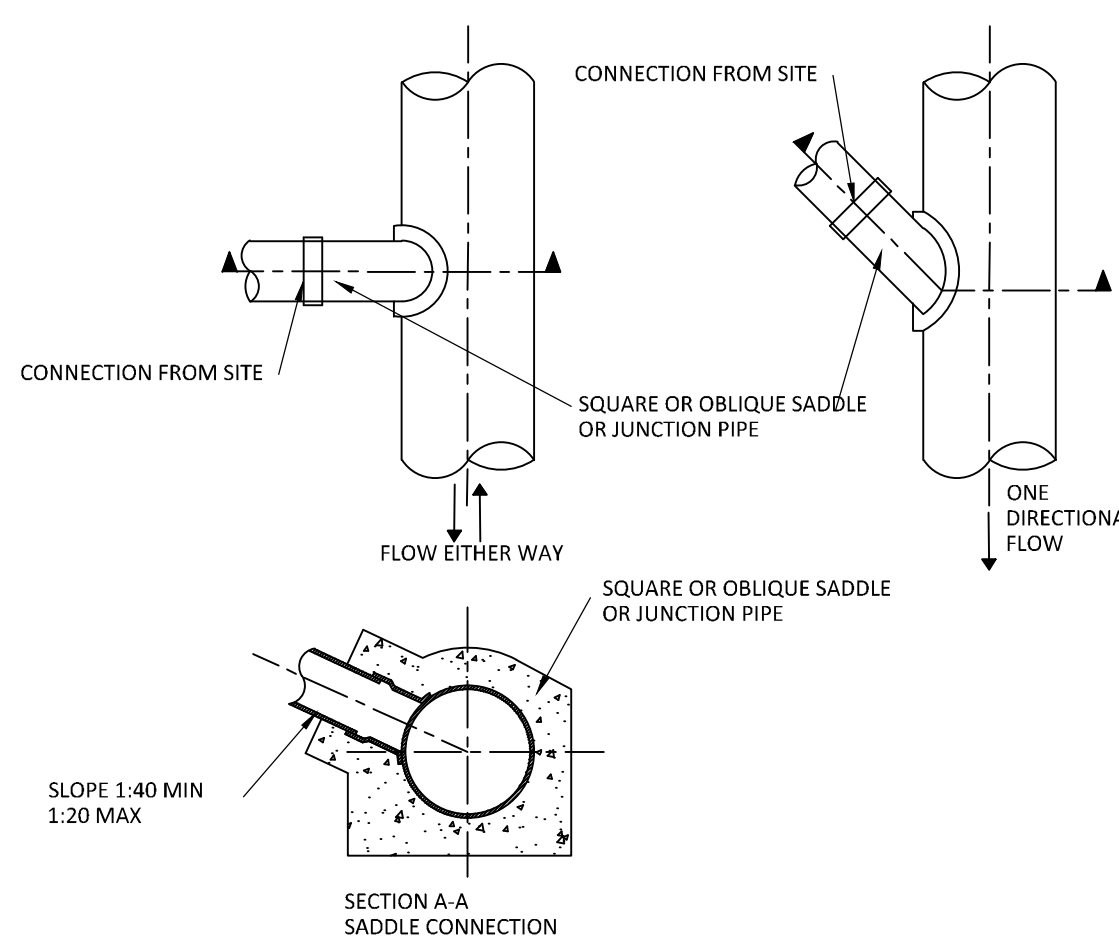
NOTE:
ALL PIPEWORK WITH CLASS Z (GEN 3/ST4) CONCRETE
SURROUND SHALL HAVE FLEXIBLE COUPLINGS WITH
FLEXI-BOARDS ON ALL JOINTS (REFER TO DETAIL D8)

**CLASS Z PIPE BEDDING & SURROUND
(TO BE USED FOR PLASTIC, VITRIFIED
CLAY & CONCRETE PIPEWORK)**

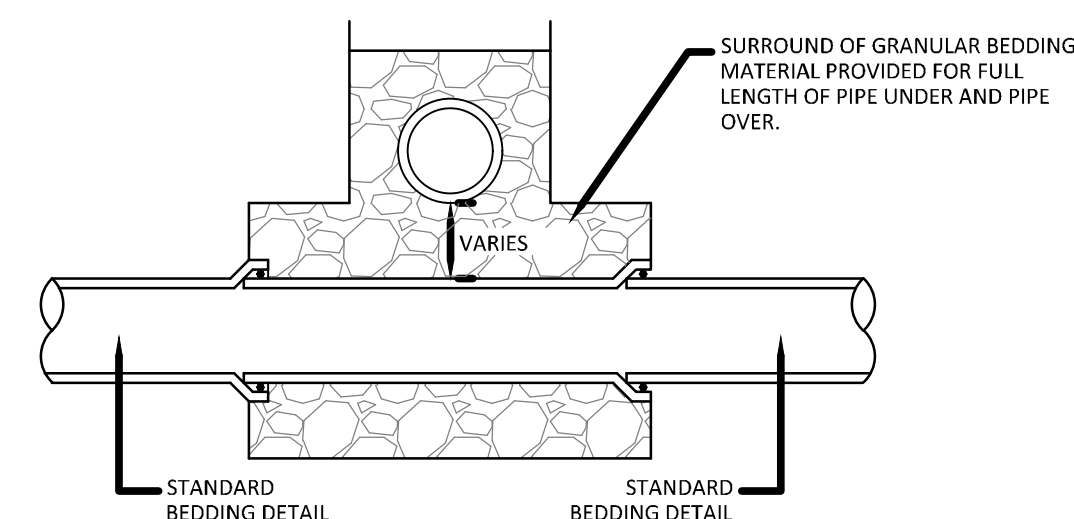
MIN. CONCRETE ENCASEMENT		
PIPE Ø (C) (mm)	D1 (mm)	D2 (mm)
100-600	150	400 - 900
675	150	975
750	150	1100
825	150	1125
900	150	1200
975	150	1275
1050	150	1350
1200	170	1540
1350	180	1710
1500	200	1900
1650	220	2090



TYPICAL 45° PIPE JUNCTION CONNECTION DETAIL

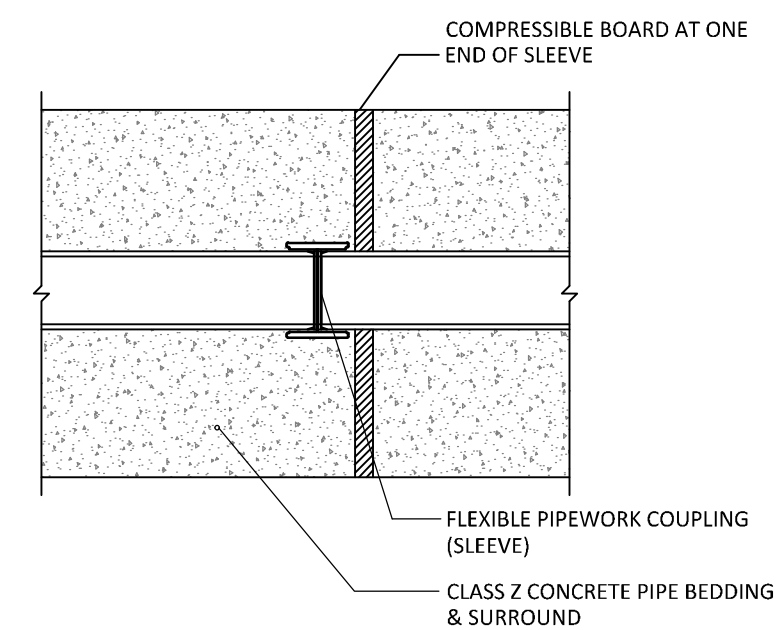


TYPICAL SADDLE CONNECTION DETAIL

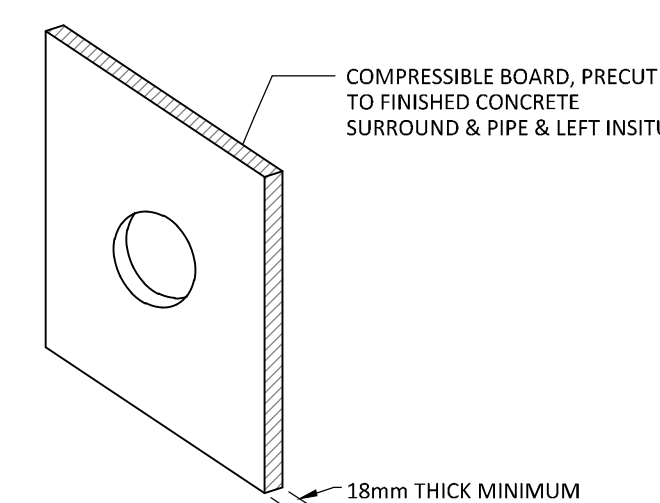


PIPE CROSSINGS OVER

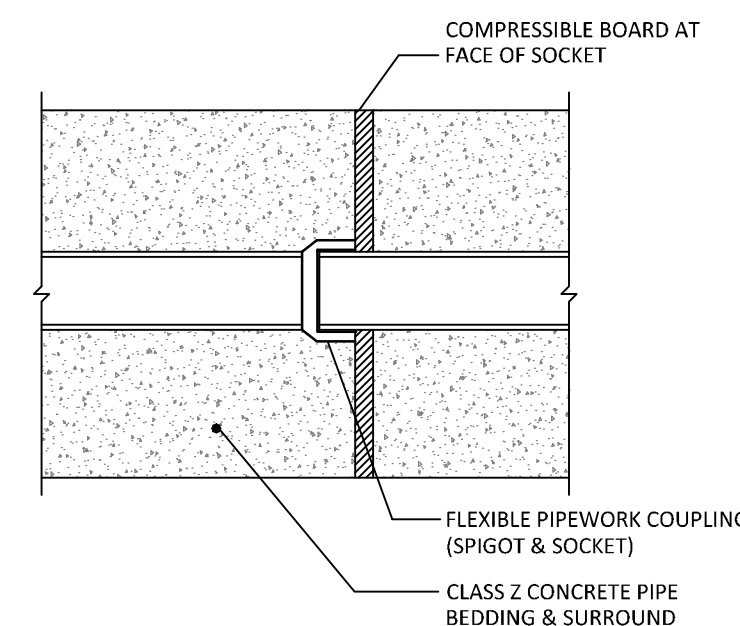
STANDARD MIX	GRADE OF CONCRETE	APPLICATIONS
ST1	C7.5	FILLINGS, BLINDINGS, SOFT SPOTS AND DRAINAGE SUMPS
ST4	C20	ALL OTHER APPLICATIONS



FLEXIBLE JOINT DETAIL FOR CONCRETE ENCASED SLEEVE JOINTED PIPES



FLEXIBLE JOINT DETAIL FOR CONCRETE ENCASED SPIGOT & SOCKET JOINTED PIPES



FLEXIBLE JOINT DETAIL FOR CONCRETE ENCASED PIPES (TO B.S. 1142)

STANDARD NOTES

1. This drawing is to be read in conjunction with all relevant architect's and engineer's drawings and the specification.
2. This drawing should not be scaled.
3. All dimensions are in metres and levels are in metres above ordnance datum unless noted otherwise. All dimensions are to be verified by the contractor on site.
4. All discrepancies should be reported to the C.A. prior to the commencement of the works.

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SUBJECT TO MANCHESTER
CITY COUNCIL HIGHWAYS
TECHNICAL APPROVAL

							Project							 Civic Engineers																			
							COLLYHURST SOUTH MANCHESTER							Title				MANCHESTER LONDON LEEDS GLASGOW				Carter's Warehouse, 77 Dale Street, Manchester, M1 2HG; Tel: 0161 228 6767 Reeds Wharf, 33 Mill Street, London SE1 2AF; Tel: 020 7253 2877 Tower Works, Unit D2/D3, Coker Road, Leeds, LS15 5QD; Tel: 0112 2025 130 Greatham Chambers, 49 West Nile St, Glasgow, G1 2PT; Tel: 0141 270 1028 www.civicingineers.com				Status				APPROVAL			
							Project Number		Scale @ A1		Date Created		Drawn		Checked		Suitability		Drawing Number						Revision								
30.07.21	P1	ISSUED FOR APPROVAL				ZG	CK	1226-05		1:200		30.07.21		ZG		CK		-		1226-05-CIV-XX-XX-DR-HI-0310						P1							
	Date	Rev	Description			Drawn	Chk																										