

NOTE : ONLY TYPE G1 GULLY TO BE USED IN CARRIAGEWAYS

1. All dimensions in millimetres.
2. Gully connections beneath any area subject to vehicle loading to have concrete bed and surround continuous to junction with connecting pipework.
3. For Type G1 and G2 gullies the minimum depth from top of the grate to the gully outlet to be 450mm.
4. Type G1 & G2 gully pots in pre cast concrete shall be to BS 5911
5. For connections to pipe diameter less than 300mm dia then a preformed junction must be used connected to main pipe using 'band-seal' connectors
6. Type G1 and G2 gully pots in PVC-U or HDPE shall have a current BBA Roads and Bridges certificate, or equivalent
7. All engineering bricks are to be solid.



KERB TYPE	FIG NO. K1 (B.S. 7263)	SIZE(mm)	DESCRIPTION	REF
A	(c)	150 x 305	HALF-BATTERED 1	HB 1
B	(c)	150 x 305	BULL-NOSED	BN 1
C	(d)	125 x 255	HALF-BATTERED 2	HB 2
D	(e)	125 x 255	BULL-NOSED	BN 2
E	(f)	125 x 255	45° SPLAY	
F	(h)	125 x 150	HALF-BATTERED 3	HB 3
G	(h)	125 x 150	BULL-NOSED	BN 3
H	(i)	125 x 150	45° SPLAY	
Z	-	380 x 415	HGV KERB	

KERB TYPE	FIG No. K1 (B.S. 7263)	SIZE(mm)	DESCRIPTION	REF
A	(a)	50 x 150	HALF-ROUNDED	EHR
B	(b)	50 x 150	SQUARE	ESQ
C	(c)	50 x 150	BULL-NOSED	EBN

CHANNEL- TABLE 3				
KERB TYPE	FIG NO. K1 (B.S. 7263)	SIZE(mm)	DESCRIPTION	REF
A	(f)	255 x 125	SQUARE	
B	(g)	150 x 125	SQUARE	
C	-	150 x 150	SQUARE	
D	-	305 x 150	BULL-NOSED	
E	-	255 x 125	BULL-NOSED	
F	(h)	255 x 125	DISHED (205x25 DISH)	

TRANSITIONS AND DROPPED TABLE 4				
KEFB TYPE	FIG NO. K1 (B.S. 7263)	SIZE(mm)	DESCRIPTION	REMARKS
I		125 x 255 TO 125 x 180	HALF-BATTERED TO 45° SPLAY	—
J		125 x 180 TO 125 x 255	45° SPLAY TO HALF-BATTERED	DR
K		125 x 255 TO 125 x 150	HALF-BATTERED TO BULLNOSE	TL
L		125 x 150 TO 125 x 255	BULLNOSE TO HALF-BATTERED	—
M		125 x 255 TO 125 x 180	45° SPLAY TO BULLNOSE	—
N		125 x 180 TO 125 x 255	BULLNOSE TO 45° SPLAY	—
T1		125 x 255 TO	HALF-BATTERED TO BULLNOSE	—
T2		125 x 255 TO	BULLNOSE TO HALF BATTERED	—

KERB TYPE	FIG NO. K1 (B.S. 7263)	SIZE(mm)	DESCRIPTION	REF
A		305 x 255	BULL-NORSED	QBN1
B		305 x 255	HALL-BATTERED	QBN1
C		305 x 255	SPRAY	QBN1
D		455 x 255	SPRAY	QBN2
E		455 x 255	HALL-BATTERED	QBN2
F		455 x 255	SPRAY	QBN2
-		ANGLE INTERNAL, 125 x 255	BULL-NORSED	BN IA
-		ANGLE INTERNAL, 125 x 255	BULL-NORSED	BN IA
-		ANGLE INTERNAL, 125 x 255	HALL-BATTERED	BN IA
-		ANGLE EXTERNAL, 125 x 255	SPRAY	BN IA
-		ANGLE EXTERNAL, 125 x 255	HALL-BATTERED	BN IA
-		ANGLE EXTERNAL, 125 x 255	HALL-BATTERED	BN IA

- 2 ALL DIMENSIONS ARE IN MILLIMETERS.
- 3 DIMENSION "A" VARIES ACCORDING TO DEPTH OF SURFACING AND ROAD BASE AND IS TO BE DETERMINED UPON AND SPECIFIED. IF SUB-BASE IS LESS THAN 160 BELOW KERB THEN KERB BASE IS TO BE SET INTO SUB-BASE SUFFICIENTLY TO ALLOW "A" TO BE A MINIMUM OF 150.
- 4 WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH CLAUSE 1101.
- 5 DIMENSION "B", THE WIDTH OF CHANNEL BASE, IS TO BE THE SAME AS THE WIDTH OF CHANNEL USED.
- 6 ADDITIONAL BED AND HAUNCH (CONCRETE GRADE ST4) IS TO BE PROVIDED WHERE CHANNEL ADJOINS VERGE.
- 7 JOINT BETWEEN KERB AND EXISTING CARRIAGEWAY TO BE FILLED WITH APPROVED SEALANT
- 8 ALL KERBS IN TABLES 1 AND 3 ARE TO BE TRANSPORTED AND POSITIONED BY MECHANICAL MEANS



TYPE B

DO NOT SCALE

TYPE S

NORMAL LIFT WEIGHT (LBS)	OVERHEAD PRESS (LBS)	BENCH PRESS		SQUAT (LBS)	DEADLIFT (LBS)	TOTAL (LBS)	COMPOUND LIFT (LBS)
		1RM	5RM				
150	100	200	100	100	750	18	
225	100	200	100	100	825	18	
300	100	200	100	100	925	18	
375	100	200	100	100	1050	18	
450	100	200	100	100	1150	36	
525	150	250	140	150	1320	36	
600	150	250	200	150	1350	36	
675	150	250	200	225	1450	36	
750	225	300	225	225	1500	36	
825	225	300	225	225	1600	36	
900	225	300	225	225	1600	36	
975	225	300	200	300	2000	36	
1050	225	300	200	300	2100	36	
1125	225	300	200	300	2200	36	
1200	250	350	200	300	2350	54	
1350	375	450	200	375	2500	54	
1500	375	450	200	375	2700	54	
1650	375	450	200	450	2800	54	
1800	375	500	200	450	3100	54	
1950	400	500	200	500	3200	54	
2100	400	500	200	500	3400	54	
2400	450	675	400	600	3700	54	



TYPE Z



TYPE T

NOTE: Bc = OUTSIDE DIAMETER OF PIPE, Bd = WIDTH OF TRENCH @ 300 ABOVE CROWN OF PIPE

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RIGID & FLEXIBLE JOINTS

PIPE BEDDING DETAILS

NOTES

1. ALL DIMENSIONS IN MILLIMETERS

2. THIS DRAWING HAS BEEN COMPILED WITH REFERENCE TO TYPICAL PRACTICES OF EXTERNAL LOADS ON PIPELINES. THE 1986 & 1993 STANDARD DESIGN OF BURIED PIPELINES UNDER VARIOUS CONDITIONS OF LOADING. (BS 5400 PART 108)

3. MAX. PERMITTED TRENCH WIDTH EQUALS AVERAGE TRENCH WIDTH. TRENCH WIDTH (BW) SHOULD BE LESS THAN MAX PERMITTED TRENCH WIDTH WITH A LEVEL 3000 ABOVE THE CROWN OF THE PIPE

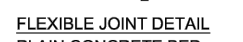
4. IF A SHAFT IS USED ON ALL OCCASIONS EXCEPT WHERE IT IS SPECIFIED OR DIRECTED BY THE ENGINEER

5. DIMENSION Y SHALL BE INCREASED BY 40mm FOR EACH ADDITIONAL IN COVER IN EXCESS OF 900

6. DIMENSION Z SHALL BE USED WHERE EXCAVATION IS IN EXCESS OF 1000mm TO 1500mm FOR HOLES, BIGGER, LARGE PIPES, LINES, STONES OR OTHER IRREGULAR LARGE SPOTS

7. LIMESTONE PIPE BEDDING WILL NOT BE PERMITTED IN ACID SOILS WITH WATER CONDITIONS. REFER TO CONTRACT SPECIFICATIONS FOR SPECIFIC DETAILS

8. RIGID PIPE MATERIALS ARE DEFINED AS CLAYWARE, CONCRETE AND REINFORCED CONCRETE



DO NOT SCALE

FLEXIBLE CONSTRUCTION JOINTS DETAIL

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. ALL CLAUSES ARE FROM THE SPECIFICATION OF HIGHWAY WORKS VOLUME 1
3. EACH LAYER TO BE COMPACTED IN LAYERS NOT EXCEEDING 100mm.
4. SURFACE COURSE LONGITUDINAL JOINT TO COINCIDE WITH LANE MARKINGS (WHERE APPLICABLE).

 North Point	Project Pilch Lane, Liverpool	Ironsides Farrar Engineers & Consultants	
	Client Breck Homes	Planners Civil Engineers Architects Graphic Design	
Quality Ass. UKAS 9001 Quality Assurance (ISO 9001:2015) SGS Certificate GB02/54539	Title: S278 Typical Highway Details Sheet 2		
Original Size	Copyright/Technology/Equipment Ordnance Survey © © Crown Copyright. All rights reserved. Licence No. AL100017966.	Drawn BK Date 23/12/2025	Checked By RDE Scale As Shown
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