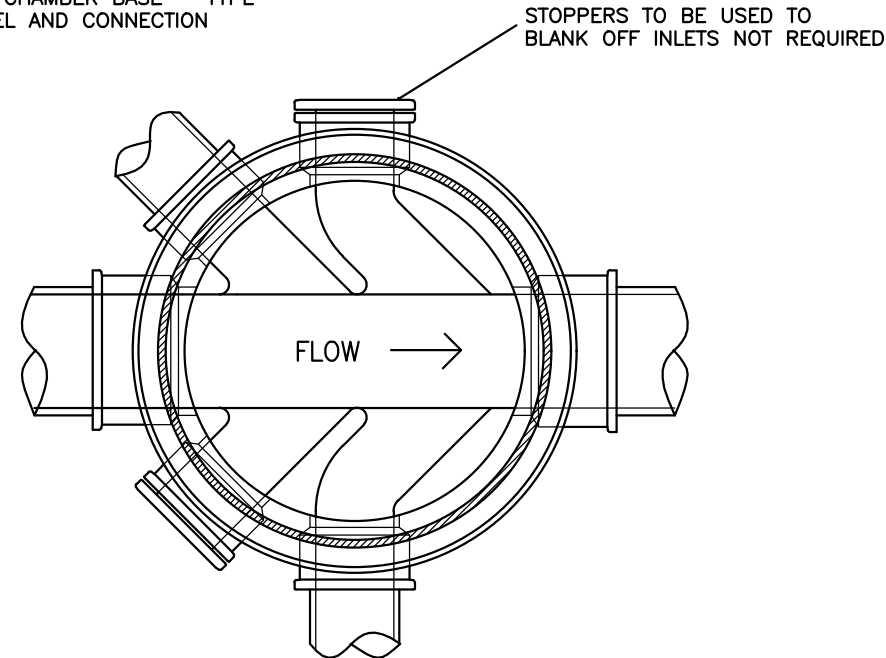




4D.347 GRADE B CAST IRON COVER & FRAME TO BE BEDDED ON 225 THICK x 300 WIDE CONCRETE COLLAR WHERE ACCESSIBLE TO MOTOR VEHICLES

4D.344 GRADE C COVER & FRAME TO BE USED IN ALL OTHER AREAS

600 - 1200 MAXIMUM

FIBRE-BOARD MOVEMENT JOINT

SELECTED AS-DUG BACKFILL MATERIAL

4D.925 #450mm NOM. POLYPROPYLENE INSPECTION CHAMBER UNITS.

100mm TYPE 'A' BEDDING MATERIAL TAKEN UP TO CROWN OF PIPE

STOPPERS TO BE USED TO BLANK OFF INLETS NOT REQUIRED

POLYPROPYLENE PREFORMED BENCHING INSPECTION CHAMBER BASE - TYPE TO SUIT CHANNEL AND CONNECTION SIZES

A cross-sectional diagram of a drainage system. At the top, a horizontal line represents the ground surface. Below it, a U-shaped channel is shown, labeled 'HAURATON RECYFIX 100 CHANNEL'. Inside the channel is a 'SLOTTED DUCTILE IRON GRATING'. Below the grate is a 'PLUS TRAPPED TRASHBOX OUTLET'. The entire assembly is surrounded by a 'MINIMUM 150mm CLASS C20 CONCRETE BED & SURROUND OR AS SPECIFIED BY THE CHANNEL DRAIN SUPPLIER'. The diagram uses various line styles to represent different materials: solid lines for concrete, dashed lines for the channel, and a pattern of small triangles for the grate.

HAURATON RECYFIX 100 CHANNEL
DRAIN TO HAVE LOAD CLASS C
SLOTTED DUCTILE IRON GRATING
PLUS TRAPPED TRASHBOX OUTLET

MINIMUM 150mm CLASS C20
CONCRETE BED & SURROUND OR
AS SPECIFIED BY THE CHANNEL
DRAIN SUPPLIER

HEAVY DUTY GULLY GRATING AND FRAME TO BS497 BEDDED ON 3:1 SAND/CEMENT MORTAR ON AT LEAST 2no COURSES OF ENGINEERING BRICKS SO THAT TOP IS 5mm BELOW THE FINISHED CHANNEL LEVEL OF THE CARRIAGEWAY. GRATING TO BE GRADE B, REF GB235 WITH 650 sqcm MIN AREA OF WATERWAY. STORM BAR GRATINGS ON GRADIENTS IN EXCESS OF 1:50

BEND TO SUIT CONNECTION

OUTGOING CONNECTION PIPE TO SEWER SYSTEM TO BE 150mm u/PVC, BEDDED AND SURROUNDED WITH 150mm THICK GRADE ST4 CONCRETE WHERE COVER IS LESS THAN 1.20M

600.600 GULLY POT HAVING 450mm INTERNAL DIAMETER AND 900mm DEPTH WITH 150mm TRAPPED OUTLET LAID ON AND SURROUNDED WITH 150mm MIN. THICKNESS GRADE ST4 CONCRETE

GRADE B GULLY GRATING AND FRAME TO BS497 BEDDED ON 3:1 SAND/CEMENT MORTAR ON AT LEAST 2 No COURSES OF ENGINEERING BRICKS SO THAT TOP IS 5mm BELOW THE FINISHED SURFACE LEVELS

BEND TO SUIT CONNECTION

OUTGOING CONNECTION PIPE TO SEWER SYSTEM TO BE 100mm uPVC, BEDDED AND SURROUNDED WITH 150mm THICK GRADE ST4 CONCRETE WHERE COVER IS LESS THAN 1.20M IN VEHICLE AREAS

40.800 GULLY POT HAVING 300mm INTERNAL DIAMETER AND 600mm DEPTH WITH TRAPPED OUTLET LAD ON AND SURROUNDED WITH 150mm MIN THICKNESS GRADE ST4 CONCRETE

2-4 COURSES CLASS B ENGINEERING BRICKWORK IN CEMENT/SAND 1:3 MORTAR ENGLISH BOND.

UNDER FIELD/PEDESTRIAN LOADING

UNDER TRAFFIC LOADING

60mm CLEAR OPENING COVER & FRAME

PRECAST CONCRETE HEAVY DUTY COVER SLAB TO B.S.5911 BEDDED WITH MORTAR/MASTIC SEALANT

ROAD SURFACE

SUB-BASE

CAPPING

UP TO 6000 USE RIGIDRAIN ADS

IN-SITU SOIL GRANULAR SURROUND

450 or 600mmØ

150mm THICK C20 CONCRETE SURROUND

BACKFILL MATERIAL

300mm SUMP DEPTH

225

150mm THICK C20 GRANULAR SURROUND

C20 CONCRETE BASE

450mm MIN. 2200mm MAX.

4D.356 RODDING POINT WITH SEALING PLATE AND SAFETY VALVE

CONCRETE SURROUND

PIPE CUT AS REQUIRED

100mm TYPE 'A' MATERIAL BEDDING & SURROUND

4D.563 45' SHORT RADIUS BEND

GRANULAR BEDDING (TYPE A) CAREFULLY COMPACTED

TERRAM 500 MEMBRANE SURROUND

BC

150

150

BC+300 min

Technical drawing of a manhole structure. The drawing shows a cross-section of a manhole with a circular opening. The structure is surrounded by granular bedding (Type A) and a backfill trench. Dimensions are indicated: 100 (height of bedding), BC (width of bedding), and BC+300 min (width of backfill trench). Labels include: GRANULAR BEDDING (TYPE A) CAREFULLY COMPACTED, BACKFILL TRENCH, 100, BC, and BC+300 min.

REMAINDER OF SUITABLE MATERIAL

GRANULAR BEDDING (TYPE A) CAREFULLY COMPACTED

BC

100

BC+300 min

BACKFILL TO REMAINDER OF TRENCH WITH SUITABLE MATERIAL

25/200s CONC. SEPARATED AT WITH AN APPR. COMPRESSIBLE

1500

1500

BC+300 min

Diagram illustrating the installation of a pipe inspection chamber with a bend.

Labels and components shown:

- 87½° BEND
- PIPE COUPLER
- SHALLOW INSPECTION CHAMBER WITH #250 SHAFT
- SEALING COVER & FRAME ASSEMBLY
- 100mm TYPE 'A' BEDDING MATERIAL TAKEN UP TO CROWN OF PIPE
- 600 MAXIMUM (depth dimension)
- Ø250mm (shaft diameter dimension)

NOTE: FOR DIMENSIONS LESS THAN 1000mm FROM TRENCH WALL TO EDGE OF FOUNDATION, CONCRETE FILL TO BE TAKEN UP LEVEL WITH THE UNDERSIDE OF FOUNDATION.

DIMENSIONS OVER 1000mm, CONCRETE FILL TAKEN UP 150mm ABOVE INTERSECTION OF LINE OF INFLUENCE & SIDE OF TRENCH

TRENCH WIDTH TO SUIT DIAMETER OF DRAIN

SEE NOTE

TRENCH BACKFILLED WITH SUITABLE EXCAVATED MATERIAL

20/40 CONCRETE BED TO DRAIN & CONCRETE SIDFILL TO UNDISTURBED TRENCH WALL

LINE OF INFLUENCE

45°

150 SEE NOTE

150

DRAIN

150

6. All drawings specifications and recommendations made by gta are subject to Local Authority and other relevant Statutory Authorities approval. Any works or services made abortive due to the client proceeding prior to these approvals is considered wholly at the Clients risk. gta hold no responsibility for resulting abortive works or costs.

COLLEGE DISTRICT COUNCIL 01652100