

TYPICAL SHALLOW INSPECTION CHAMBER DETAIL FOR USE IN DRIVEWAYS/CAR PARKING AREAS (NOT SUBJECT TO HEAVY VEHICLE LOADING) SCALE 1:25

MINIMUM DIMENSIONS FOR ACCESS FITTINGS AND INSPECTION CHAMBERS					
TYPE OF ACCESS	DEPTH TO INVERT	MINIMUM INTERNAL DIMENSIONS (1)		MINIMUM CLEAR OPENING SIZE (1)	
	FROM COVER LEVEL (m)	LENGTH x WIDTH (mm x mm)	CIRCULAR (mm)	LENGTH x WIDTH (mm x mm)	CIRCULAR (mm)
RODDING EYE	-	AS DRAIN BUT MINIMUM 100mm.	-	-	SAME SIZE AS PIPEWORK
ACCESS FITTING SMALL 150mm DIA. SMALL 150x100mm LARGE 225x100mm	0.6m OR LESS EXCEPT WHERE SITUATED IN A CHAMBER	150 × 100 225 × 100	150 225	150 x 100 (1) 225 x 100 (1)	SAME SIZE AS ACCESS FITTING
INSPECTION CHAMBER					
SHALLOW	0.6m OR LESS	225 x 100	190 (2)		190 (1)
MEDIUM	1.2m OR LESS	450 x 450	450	MIN 430 x 430	430
DEEP	GREATER THAN 1.2m	450 x 450	450	MAX 300 x 300 (3)	ACCESS RESTRICTE TO MAX 350 (3)

TIES:

THE CLEAR OPENING MAY BE REDUCED BY 20mm IN ORDER TO PROVIDE PROPER SUPPORT FOR THE COVER AND FRAME.

DRAINS UPTO 150mm DIAMETER. A LARGER CLEAR OPENING COVER MAY BE USED IN CONJUNCTION WITH A RESTRICTED ACCESS. THE SIZE IS RESTRICTED FOR HEALTH SKETLY RESONANT TO DETER ENTRY.

MINIMUM DIMENSIONS FOR MANHOLES					
		MINIMUM INTERNAL DIMENSIONS (1)		MINIMUM CLEAR OPENING SIZE (1)	
TYPE OF ACCESS	SIZE OF LARGEST PIPE (DN)	RECTANGULAR LENGTH x WIDTH (mm x mm)	CIRCULAR DIAMETER (mm)	RECTANGULAR LENGTH x WIDTH (mm x mm)	CIRCULAR DIAMETER (mm)
MANHOLE LESS THAN 1.5m DEEP TO SOFFIT	LESS THAN OR EQUAL TO 150	750 x 675 (7)	1000 (7)	750 x 675 (2)	N/A (3)
	225	1200 x 675	1200	1200 x 675 (2)	
	300	1200 x 750	1200		
	GREATER THAN 300	1800 x (DN+450)	THE LARGER OF 1800 or (DN+450)		
MANHOLE GREATER THAN 1.5m DEEP TO SOFFIT	LESS THAN OR EQUAL TO 225	1200 x 1000	1200	600 × 600	600
	300	1200 x 1075	1200		
	375-450	1350 x 1225	1200		
	GREATER THAN 450	1800 x (DN+775)	THE LARGER OF 1800 or (DN+775)		
MANHOLE SHAFT (4) GREATER THAN 3.0m DEEP TO SOFFIT OF PIPE	STEPS (5)	1050 x 800	1050	600 × 600	600
	LADDER (5)	1200 x 800	1200		
	WINCH (6)	900 x 800	900		

NOTES:

(1) LARGER SIZES MAY BE REQUIRED FOR MANHOLES ON BENDS OR WHERE THERE ARE JUNCTIONS.

(2) MAY BE REDUCED TO 600x600mm WHERE REQUIRED BY HIGHWAY LOADING CONSIDERATIONS, SUBJECT TO A SAFE SYSTEM OF WORK BEING SPECIFED.

(3) NOT APPLICABLE DUE TO WORKING SPACE NEEDED.

(4) MINIMUM HEIGHT OF CHAMBER IN SHAFTED MANHOLE 2m FROM BENCHING TO UNDERSIDE OF REDUCING SLAB.

(5) MINIMUM LEIGHT OF CHAMBER IN SHAFTED MANHOLE 2m FROM BENCHING TO UNDERSIDE OF REDUCING SLAB.

(6) MINICH ONLY — NO STEPS OR LADDERS, PERMANENT OR REMOVABLE.

(7) THE MINIMUM SIZE OF ANY MANHOLE SERVING A SEWER (i.e. ANY DRAIN SERVING MORE THAN ONE PROPERTY) SHOULD BE 1200x750mm RECTANGULAR OR 1200mm DIAMETER.

COVER GRADE TO BS EN: 124

D400

C250*

B125

A15

TABLE SHOWING PRIVATE MANHOLE/INSPECTION

CHAMBER COVER GRADES AND AREAS OF USE

* D400 MAY BE USED IN LIEU OF C250 IF PREFERRED

FOR USE IN INDUSTRIAL ROADS AND PARKING AREAS ACCESSIBLE TO ALL TYPES OF ROAD VEHICLES INCLUDING

FOR USE IN PRIVATE ROADS OR PARKING AREAS eg. CAR PARKS AND MINOR PRIVATE ROADS ACCESSIBLE TO REFUS VEHICLES, FIRE APPLIANCES ETC WITH POSSIBLE

FOR USE IN FOOTWAYS, PEDESTRIAN AREAS, DRIVEWAYS AND CAR PARKS ACCESSIBLE BY LIGHT VEHICLES ONLY.

NOTES:

2) ALL COMPONENTS AND MATERIALS ARE TO BE MANUFACTURED AND SUPPLIED IN ACCORDANCE WITH THE RELEVANT BRITISH STANDARDS, AND LAID AND BACKFILLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND THE RELEVANT BRITISH STANDARDS.

3) THE CONTRACTOR SHALL, BEFORE COMMENCING THE WORKS, VERIFY ALL SITE AND SETTING OUT DIMENSIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUE AND PROPER SETTING OUT OF THE WORKS AND FOR THE CORRECTNESS OF THE POSITION, LEVELS, DIMENSIONS, AND ALIGNMENT OF ALL PARTS OF THE WORKS.

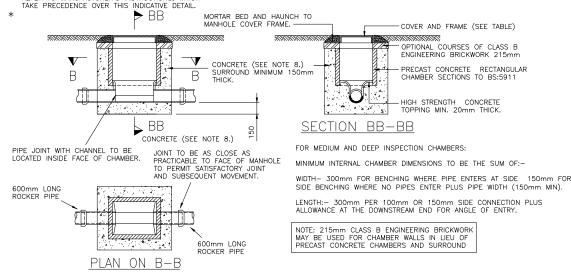
4) SMALL LIGHTWEIGHT ACCESS COVERS SHOULD BE SECURED (FOR EXAMPLE WITH SCREWS) TO DETER UNAUTHORISED ACCESS.

6) MANHOLES DEEPER THAN 1M TO HAVE GALVANISED STEEL STEP IRONS OR FIXED LADDERS

7) ALL ABOVE GROUND DRAINAGE TO INCORPORATE RODDING ACCESS FACILITIES.

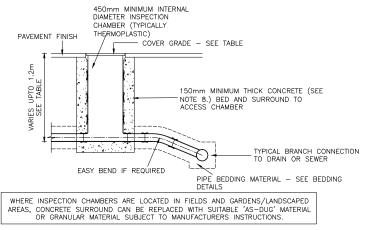
8) INSITU CONCRETE FOR USE IN GENERAL DRAINAGE WORKS SHALL BE IN ACCORDANCE WITH BS:8500, AND IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SITE INVESTIGATION REPORT, AND IN ACCORDANCE WITH BRE DIGEST 1 "CONCRETE IN AGGRESSIVE GROUND" TO MEET ANY EXPECTED SULPHATE COMDITIONS.

9) MANHOLE COVERS WITHIN BLOCK PAVED AREAS SHALL BE RECESSED WITH INFILL TO MATCH ADJACENT SURFACING.

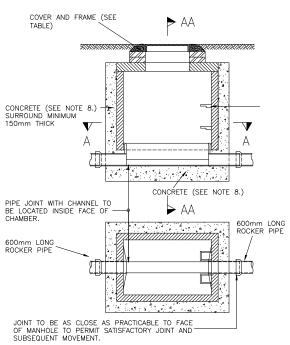


REFER TO MANUFACTURER'S INSTRUCTIONS. WHICH

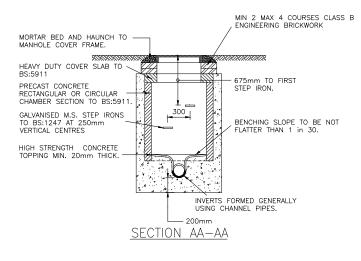
TYPICAL CONCRETE INSPECTION CHAMBER DETAIL (REFER TO TABLE FOR CHAMBER DIMENSIONS)



TYPICAL MEDIUM DEPTH INSPECTION CHAMBER DETAIL FOR USE IN DRIVEWAYS/CAR PARKING AREAS (NOT SUBJECT TO HEAVY VEHICLE LOADING) SCALE 1:25



PLAN ON A-A



NOTE: 215mm CLASS B ENGINEERING BRICKWORK MAY BE USED FOR CHAMBER WALLS IN LIEU OF PRECAST CONCRETE CHAMBERS AND SURROUND

TYPICAL CONCRETE MANHOLE DETAIL (REFER TO TABLE FOR CHAMBER DIMENSIONS) SCALE 1:25

REV	DATE	DESCRIPTION	DRAWN	CHKI

REVISIONS

wing is to be read in conjunction with all other Engineer's drawings and all roject information. Any discrepancy between the Engineer's drawings and



WALTER GIDNEY PAVILION SOHAM, CAMBRIDGESHIRE PHASE II WORKS

PRIVATE DRAINAGE CONSTRUCTION DETAILS SHEET 1 OF 3

SOHAM TOWN COUNCIL

Scale	Drawn	Date
AS SHOWN @ A1	NTU	MARCH 2020
Job Manager	Checked	Approved
R. MORRIS	SJH	RNL



43661/C/11

INFORMATION ☐ COSTING