TYPICAL DETAILS OF PRECAST CONCRETE MANHOLES TO BS 5911

DEEP MANHOLE (D)
For depths see Table 2 (Drg No SD/5/22A)

Maximum 4 courses, minimum 2 courses Class B engineering bricks. Mortar and bedding material as stated on Drg No SD/5/18

Cover slab, reducing slab and sections bedded and jointed in Class 1 mortar to Clause 2404

Galvanised ladder (BS 4211) minimum distance from wall 150mm. Maximum 875mm from cover level to first ladder rung (see Notes 13 & 17)

At least 2 stays to be provided for ladder. Maximum spacing of stays 3m.

35mm Grano concrete benching to be brought up to a dense smooth face neatly shaped and finished to all branch connections. Bench slope to be no flatter than 1 in 30.

Distance between top of pipe and underside of PC Ring to be 50mm

Toe Hole (see Drg No SD/5/22A)
Base slab in GEN3 (16/20) concrete

150mm surround in GEN3 (16/20) concrete

Reducing slab

SHAFT MANHOLE (M)
For depths see Table 2 (Drg No SD/5/22A)

Galvanised step irons to BS 1247 staggered at 300 9c

35mm Grano concrete as deep manhole

Base slab in concrete
Class C20P

SECTION C–C

Precast Ring to be built into base concrete by 75mm min

2.0m min

50 min 225 min

SECTIONAL PLAN FOR (D) & (M) MANHOLES

Pipe joint with channel to be located 100mm minimum inside face of chamber

150

The width of the beching below the ladder/step irons should be 500mm minimum. To achieve this on pipes it will be necessary to offset the centre line of the pipe from the centre line of the manhole

Inverts formed using channel pipes

Position of step irons or ladder

Safety chain (see Note 18 and Drg No SD/5/22A)

Pipe joint with channel to be located 100mm minimum inside face of chamber

Rocker pipe (see Note 16)

Short length of pipe to be similar length to rocker pipe, joint to be as close as practicable to face of manhole to permit joint movement

Safety chain (see Note 18)

Inverts formed using channel pipes

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