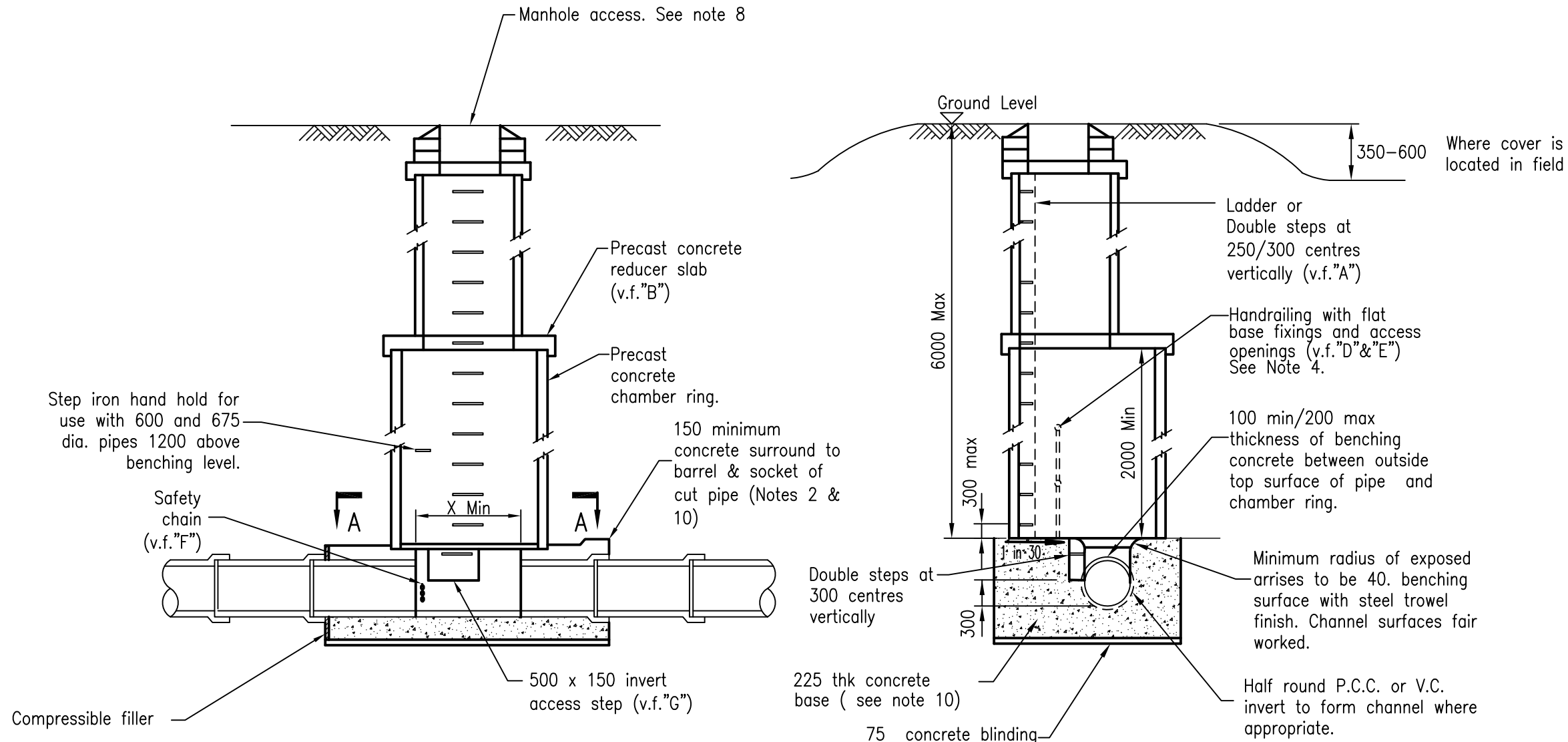
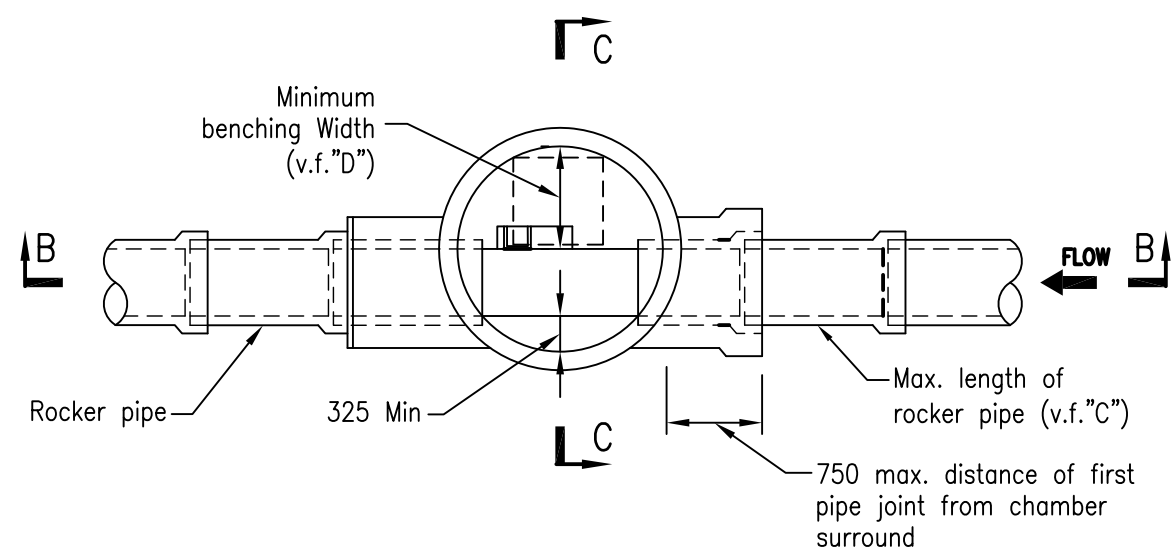




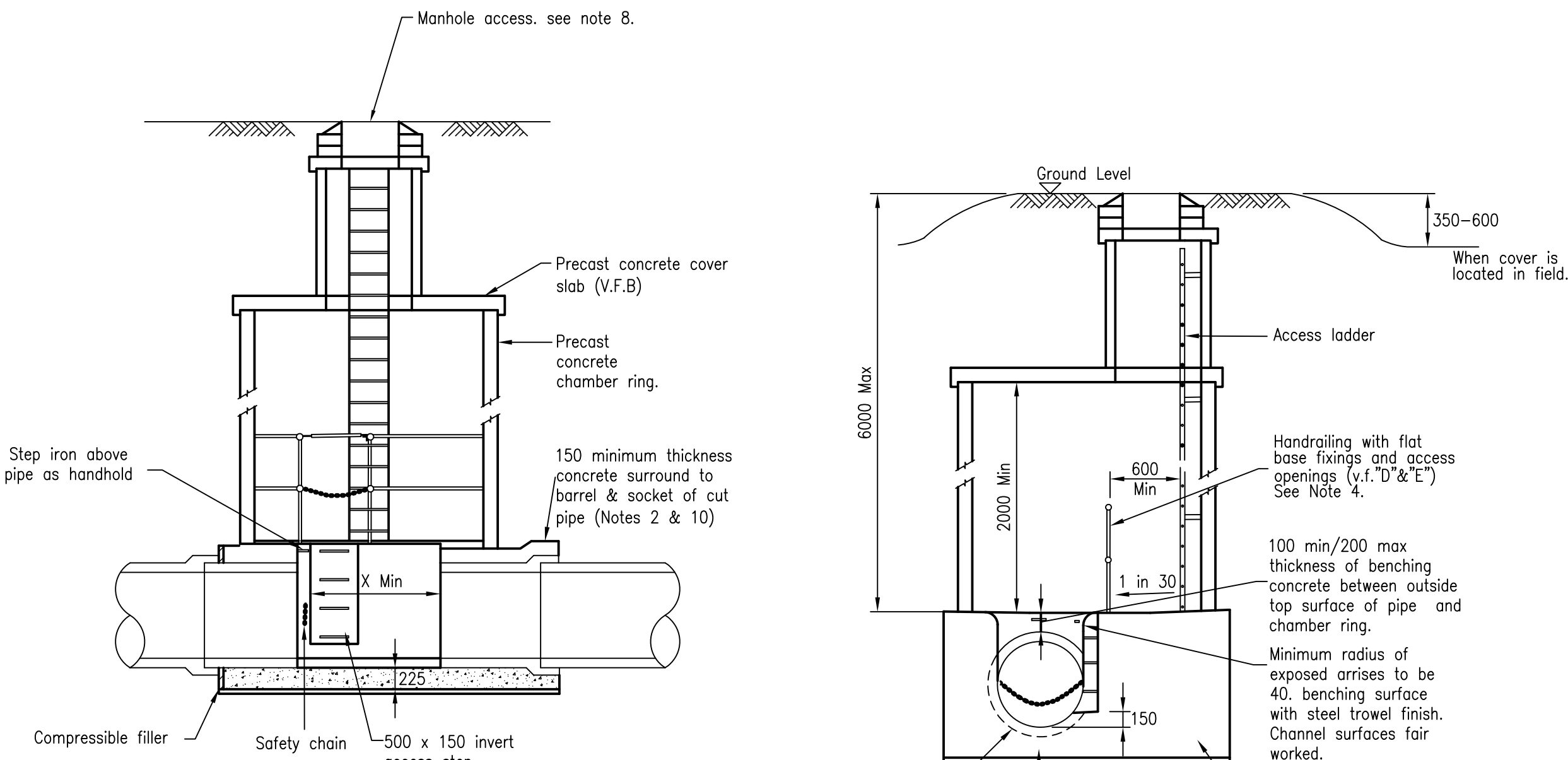
SECTION B-B

SECTION C-C



SECTION A-A

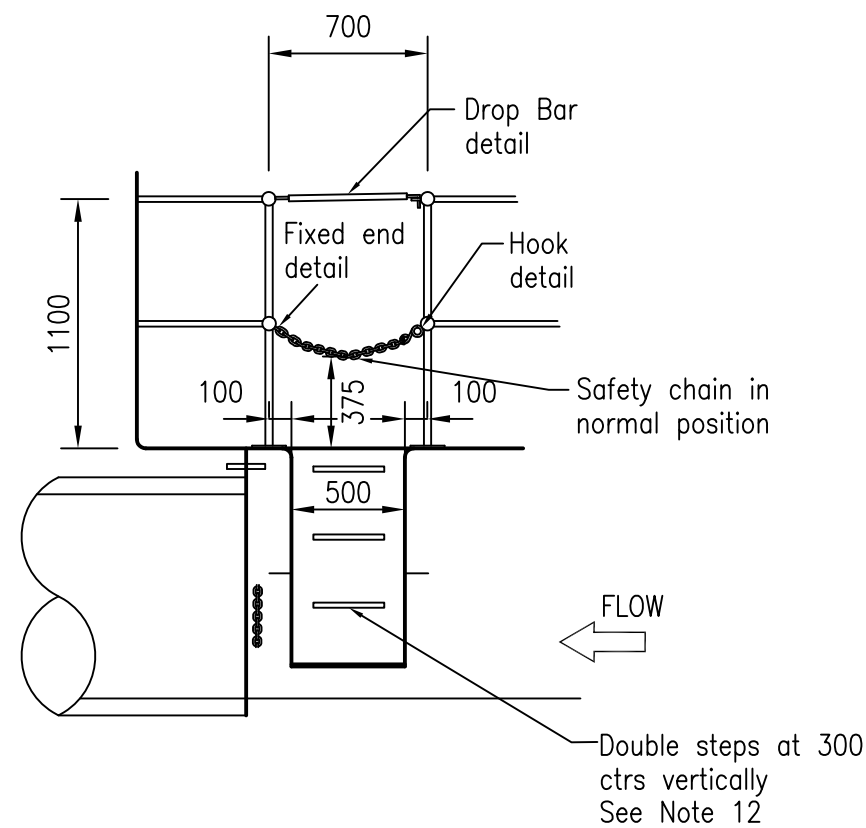
MANHOLE TYPE 1 - PIPES NOT EXCEEDING 825mm DIAMETER (DEPTH TO BENCHING NOT EXCEEDING 6000)



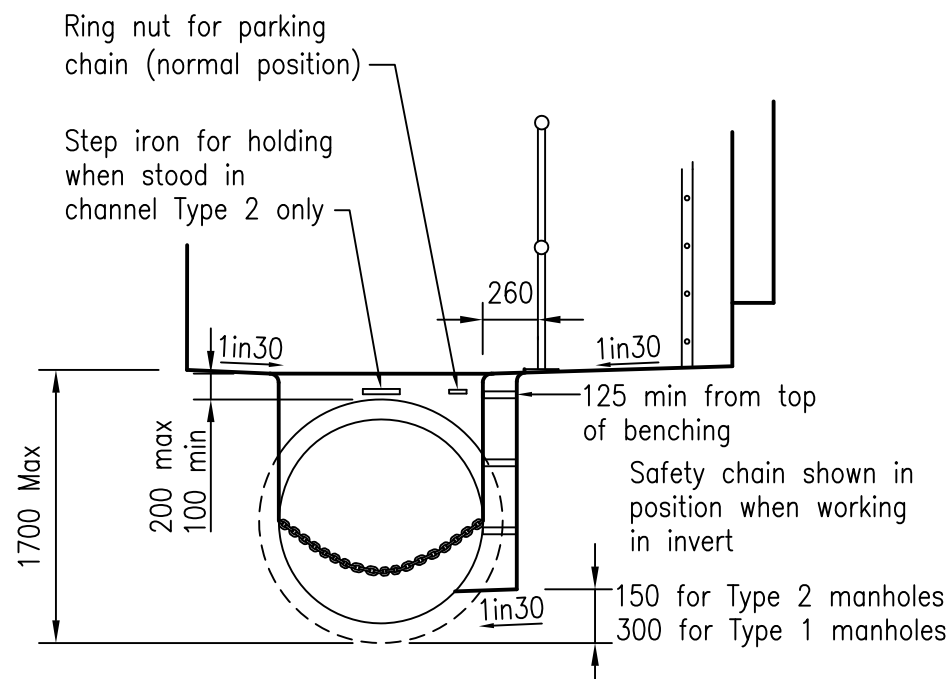
SECTION B-B

SECTION C-C

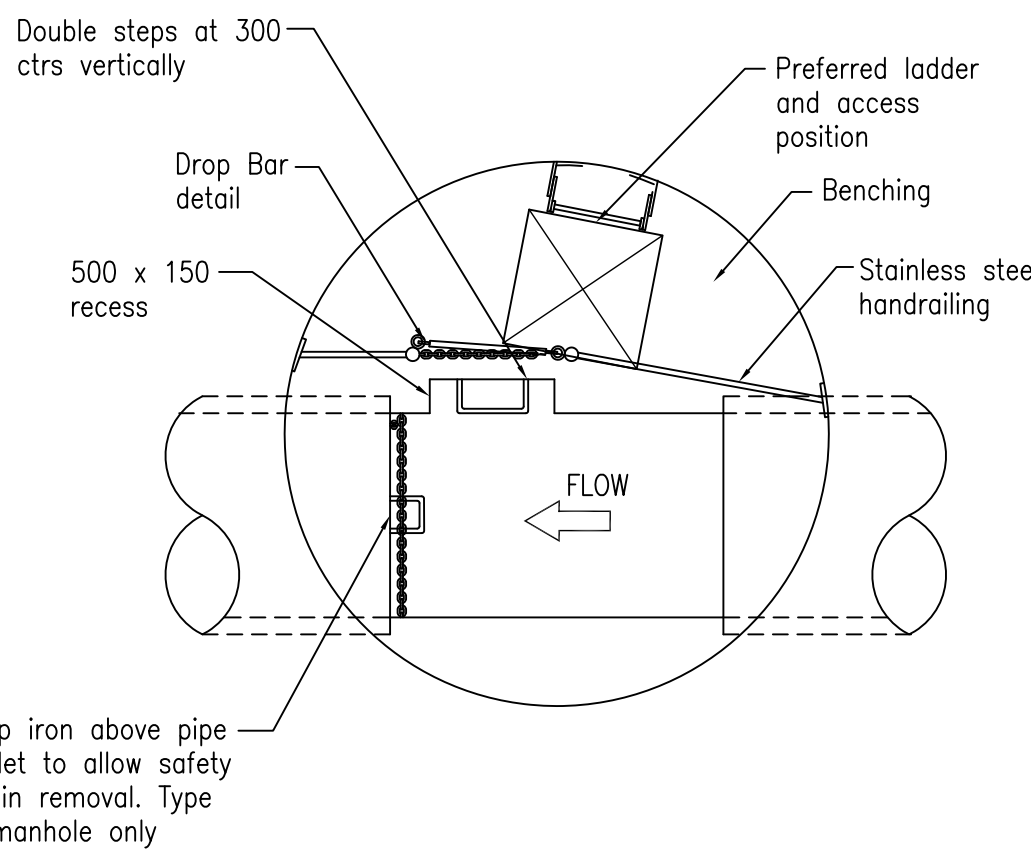
MANHOLE TYPE 2 PIPES 900 - 1500 DIAMETER (DEPTH TO BENCHING NOT EXCEEDING 6000)



FRONT ELEVATION



SIDE ELEVATION (Looking downstream)



PLAN

INVERT ACCESS DETAILS FOR TYPE 2 MANHOLES AND TYPE 1 WHERE THE SEWER IS 600mm DIAMETER OR GREATER

NOTES

1. All dimensions are in millimetres.

2. CONCRETE BENCHING AND PIPE SURROUND

Shall be placed in single continuous operation from top of base slab to top of benching and pipe surround.

3. CONNECTION INTO MANHOLES

Shall be constructed with the soffits at the level unless detailed differently on contract drawings.

4. METALWORK

Ladders, handrailing and safety drain shall be as shown on UU Standard Detail STND/01/002

5. CONCRETE SURROUND TO MANHOLES

A concrete surround is not normally required to manholes unless installed in areas of unstable ground, under conditions of floatation or where subjected to exceptional or eccentric loads. In which cases a 150mm surround of at least 20 N/mm concrete shall be provided. Any joints should be staggered with precast concrete joints.

6. MINIMUM LENGTH OF CHANNEL (X Min)

CHAMBER DIA	"X" Min
1200	950
1500	1050
1800	1150
2100	1300
2400	1450
2700	1550
3000	1700

7. CUT ENDS OF REINFORCED CONCRETE PIPES

Shall be treated with epoxy resin point/mortar.

8. MANHOLE ACCESSES

For manhole access options and details see UU Standard Detail STND/01/013 Double steps shall be plastic encapsulated carbon steel. Double steps shall not be used where cover-to-soffit dimension is >3.0m

9. COVER AND FRAME

150mm deep covers are to be used in Category 1, 2, 3 Roads. 100mm deep covers are to be used in Category 4 Roads. Double triangular covers are to be used in carriageway. Road category to be designated by the Highway Authority. Frame to be set as per specification.

10. CONCRETE

All in-situ concrete to be DC - 3 OR FND3

11. VARIABLE FEATURES (V.F.)

Where v.f. appears in annotation refer to variable features as shown on UU Standard Detail STND/01/013.

D	FOR INFORMATION	PJG	FE	SD	03.07.09
C	FOR INFORMATION	JL	DHA	MJR	18.02.03
B	FOR INFORMATION	JL	DHA	MJR	30.05.02
A	APPROVED	PH	DHA	MJR	15.03.01
REV	DESCRIPTION	DRW	CHKD	APPD	DATE



PROJECT No.	DRAWING STATUS
PROJECT	STANDARD DETAIL

TITLE	NETWORKS TYPE 1 MANHOLE & TYPE 2 MANHOLE
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DRAWN	DATE	DESIGN ENG	DATE	VERIF'N ENG	DATE
MJC	29-08-08				
DRG No.	STND_01_001	SCALE		SHEET	OF
VER No.	D				
A1-STD					