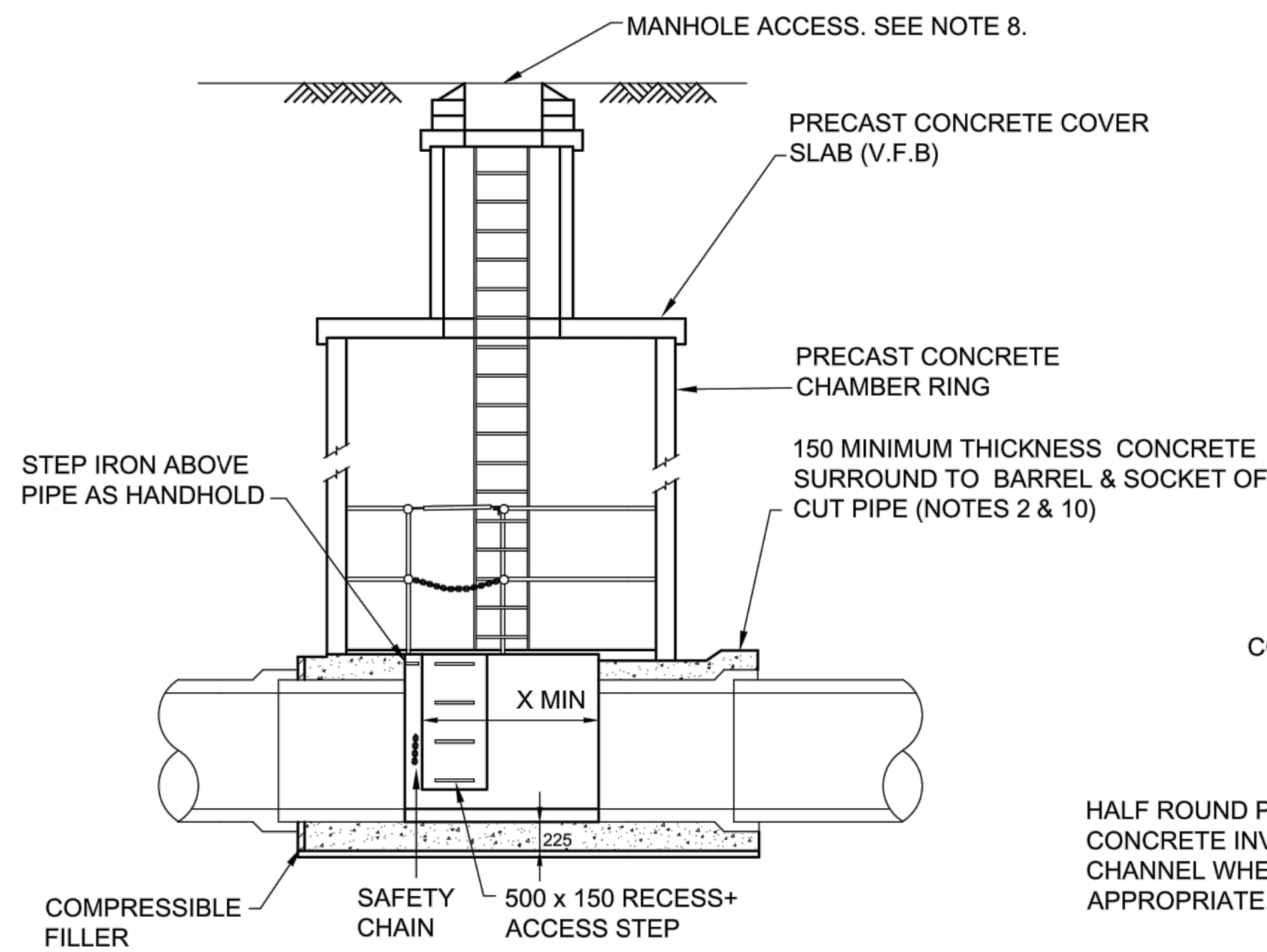
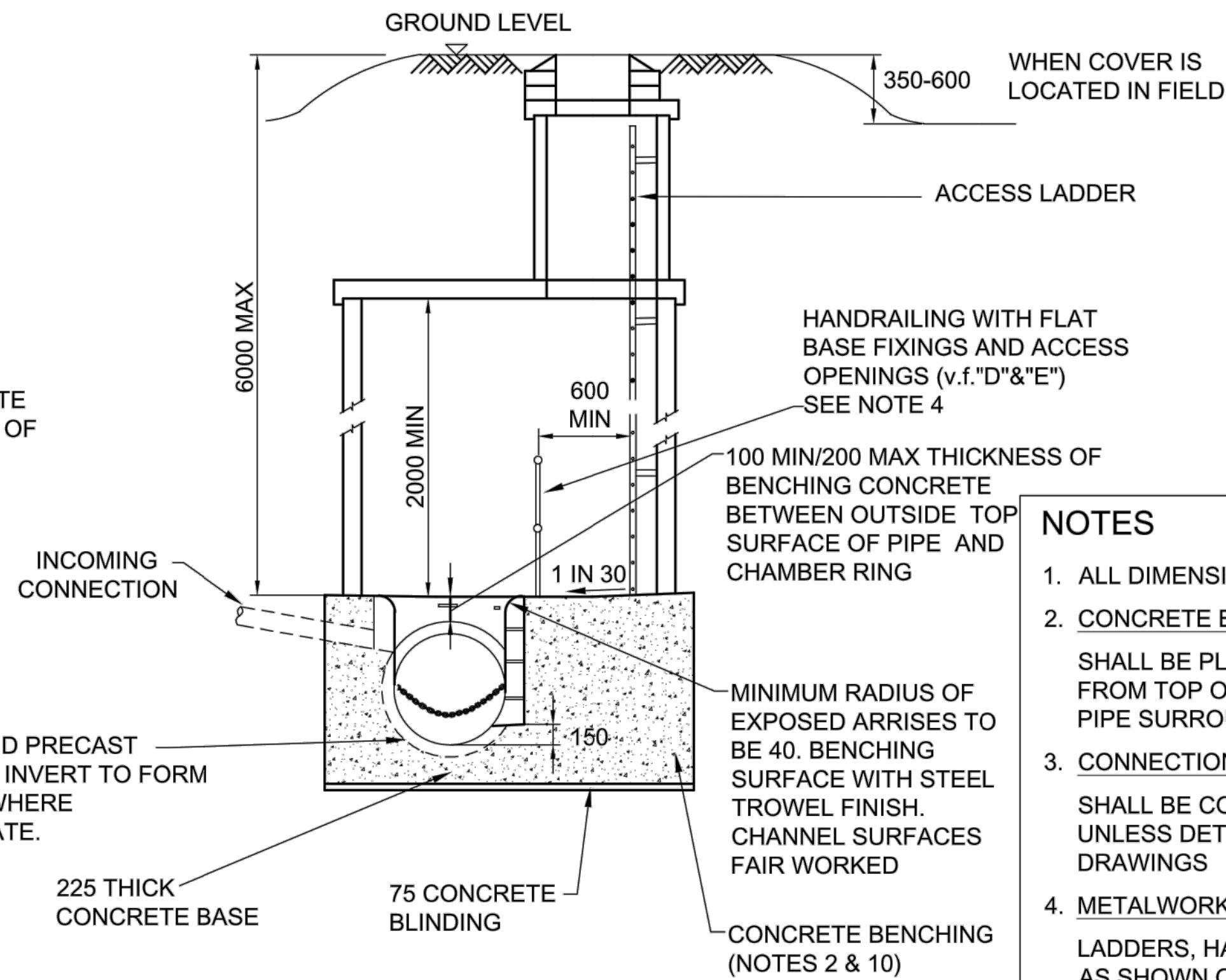
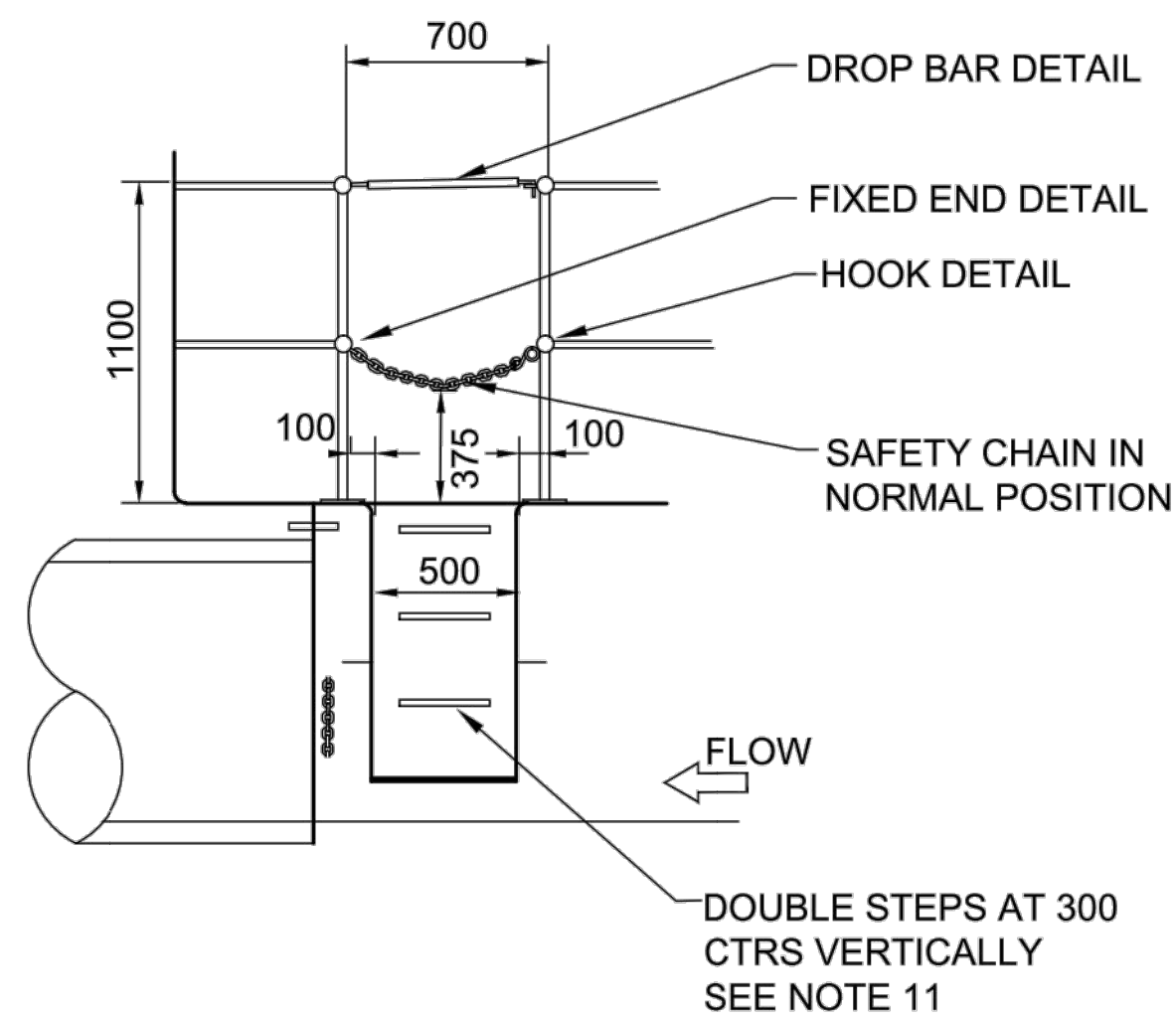




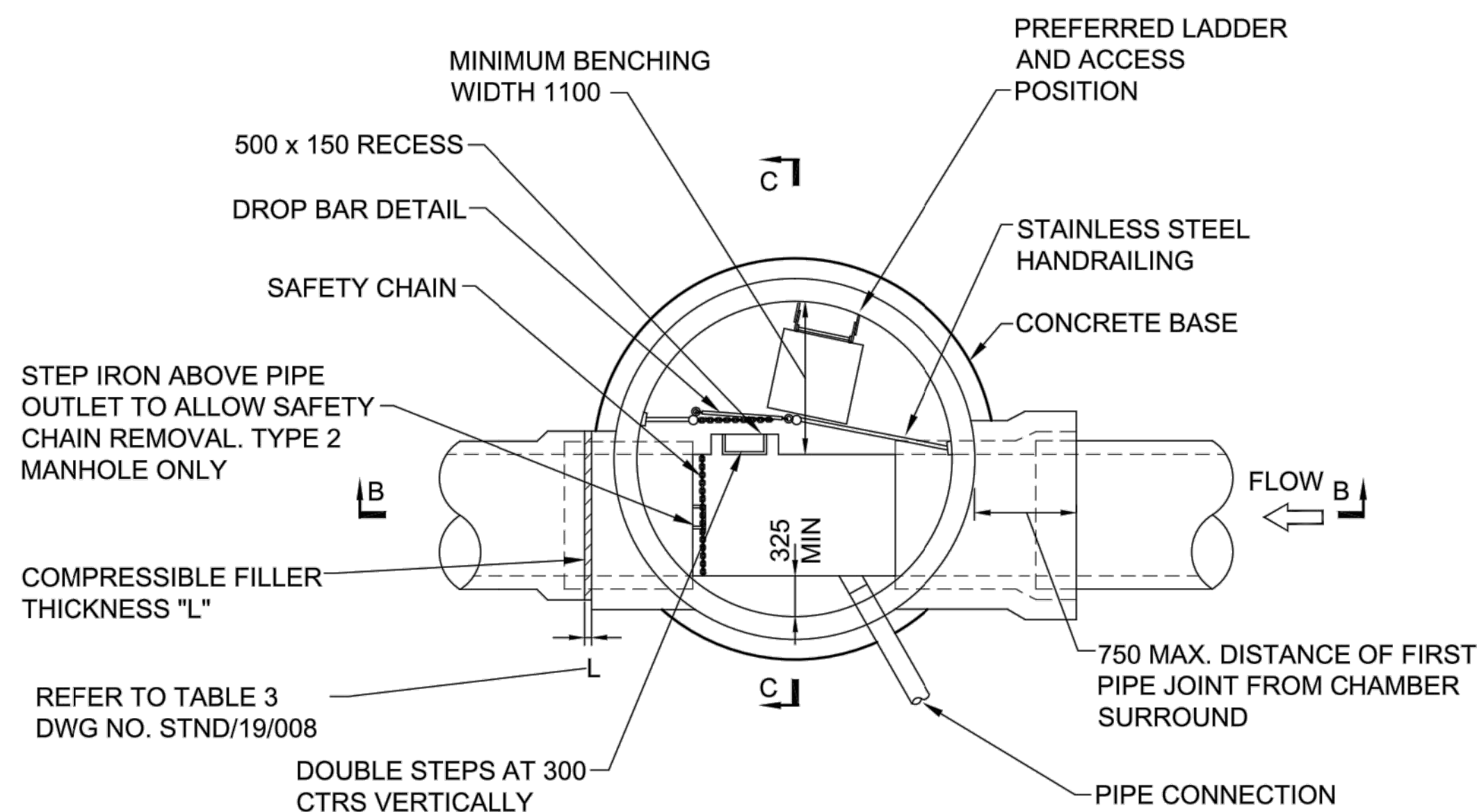
SECTION B-B



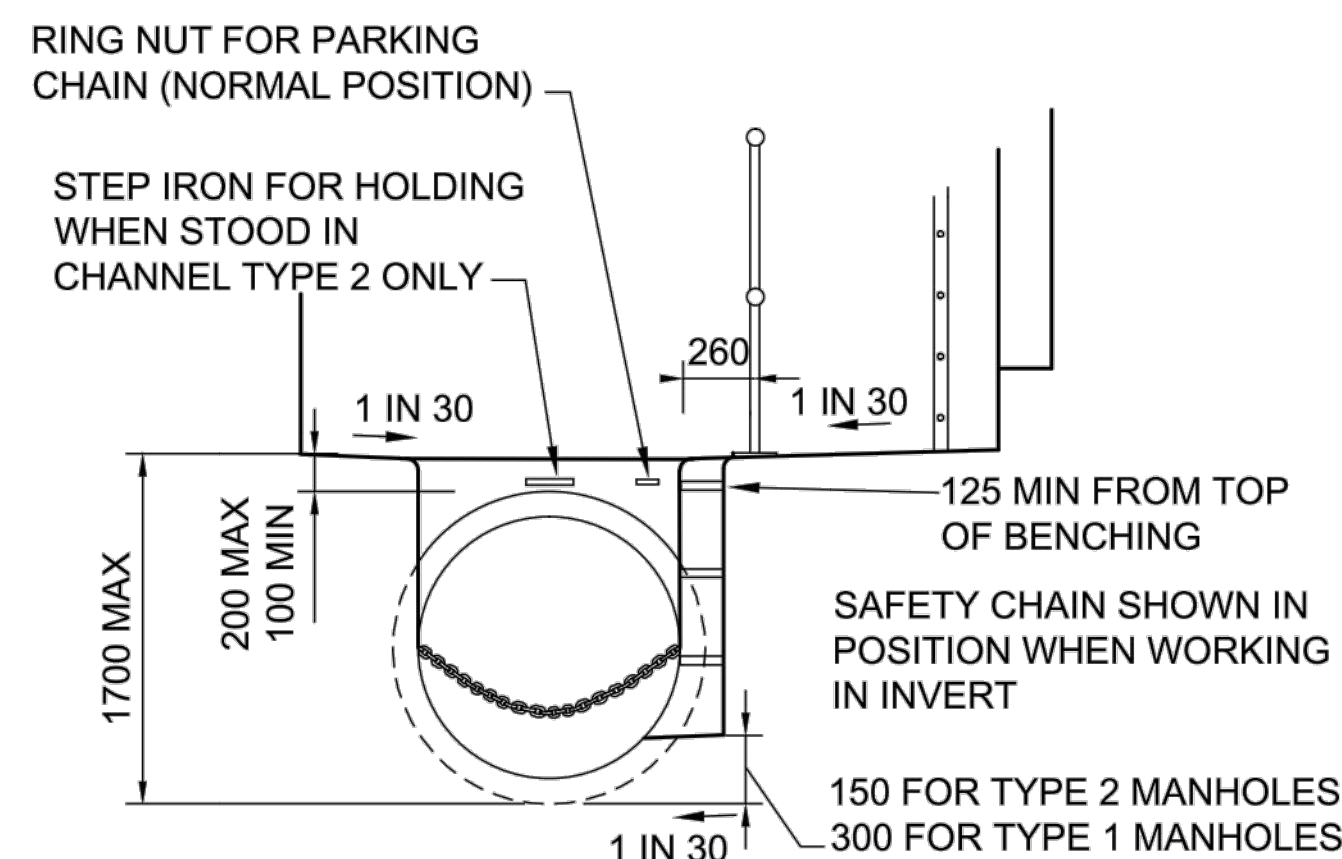
SECTION C-C



FRONT ELEVATION



MANHOLE TYPE 2
PIPES 600 - 1500 DIAMETER
(DEPTH TO BENCHING NOT EXCEEDING 6000)



SIDE ELEVATION
(LOOKING DOWNSTREAM)

NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES
- CONCRETE BENCHING AND PIPE SURROUND**
SHALL BE PLACED IN SINGLE CONTINUOUS OPERATION FROM TOP OF BASE SLAB TO TOP OF BENCHING AND PIPE SURROUND
- CONNECTION INTO MANHOLES**
SHALL BE CONSTRUCTED WITH THE SOFFITS LEVEL UNLESS DETAILED DIFFERENTLY ON CONTRACT DRAWINGS
- METALWORK**
LADDERS, HANDRAILING AND SAFETY CHAIN SHALL BE AS SHOWN ON DEVELOPER SERVICES DETAIL 9 (STND/19/009)
- CONCRETE SURROUND TO MANHOLES**
A CONCRETE SURROUND IS NOT NORMALLY REQUIRED TO MANHOLES UNLESS INSTALLED IN AREAS OF UNSTABLE GROUND, UNDER CONDITIONS OF FLOTATION OR WHERE SUBJECTED TO EXCEPTIONAL OR ECCENTRIC LOADS. IN WHICH CASES A 150 SURROUND OF AT LEAST 20 N/mm CONCRETE SHALL BE PROVIDED. ANY JOINTS SHOULD BE STAGGERED WITH PRECAST CONCRETE JOINTS
- MINIMUM LENGTH OF CHANNEL (X Min)**

CHAMBER DIA	"X" MIN
1050	800
1200	950
1350	1000
1500	1050
1800	1150
2100	1300
2400	1450
2700	1550
3000	1700

- CUT ENDS OF REINFORCED CONCRETE PIPES**
SHALL BE TREATED WITH EPOXY RESIN PAINT/MORTAR
- MANHOLE ACCESSES FOR MANHOLE ACCESS**
OPTIONS AND DETAILS SEE DEVELOPER SERVICES DETAIL 10 (STND/19/010). DOUBLE STEPS SHALL BE PLASTIC ENCAPSULATED CARBON STEEL. DOUBLE STEPS SHALL NOT BE USED WHERE COVER-TO-SOFFIT DIMENSION IS >3.0m
- COVER AND FRAME**
150 DEEP COVERS ARE TO BE USED IN CATEGORY 1, 2, 3 ROADS. 100 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
- CONCRETE**
ALL IN-SITU CONCRETE TO BE DC - 3 OR FND3
- VARIABLE FEATURES (V.F.)**
WHERE V.F. APPEARS IN ANNOTATION REFER TO VARIABLE FEATURES AS SHOWN ON DEVELOPER SERVICES DETAIL 10 (STND/19/010)

CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing.
Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

Rev.	Date	Amendment	Drawn	Chkd.	Appd.
P1	12.07.21	First Issue	JA	MS	

RSK

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Client	Kellen Homes
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Project Title	Don Street Middleton
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Drawing Title	Drainage Construction details Sheet 2 of 10
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Drawn JA	Date JULY '21	Checked MS	Date JULY '21	Approved Date
Scale NTS	Orig Size A1	Dimensions	Project No. 882333	Drawing File
Drawing No. 40-15-02	Rev. P1			