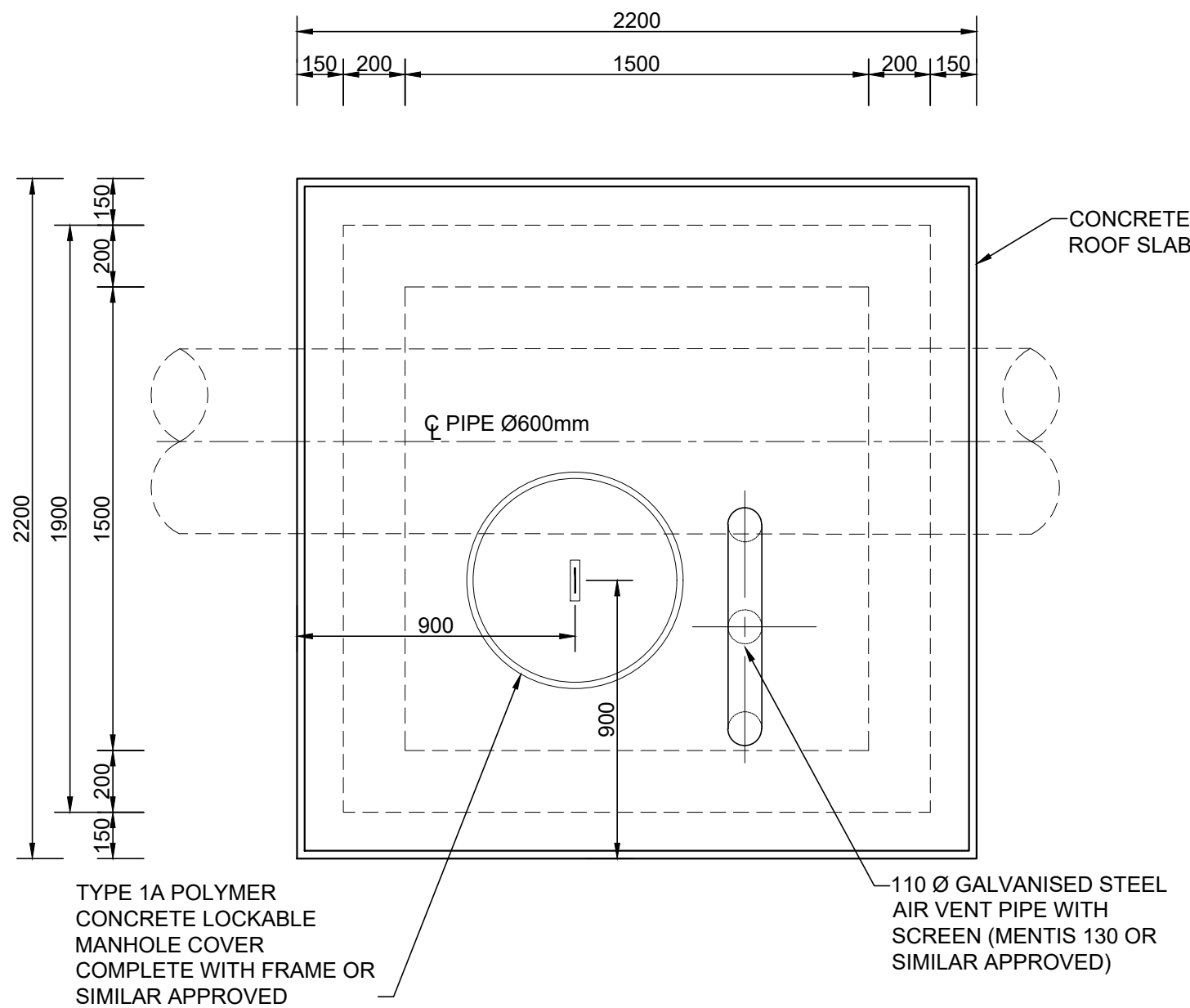


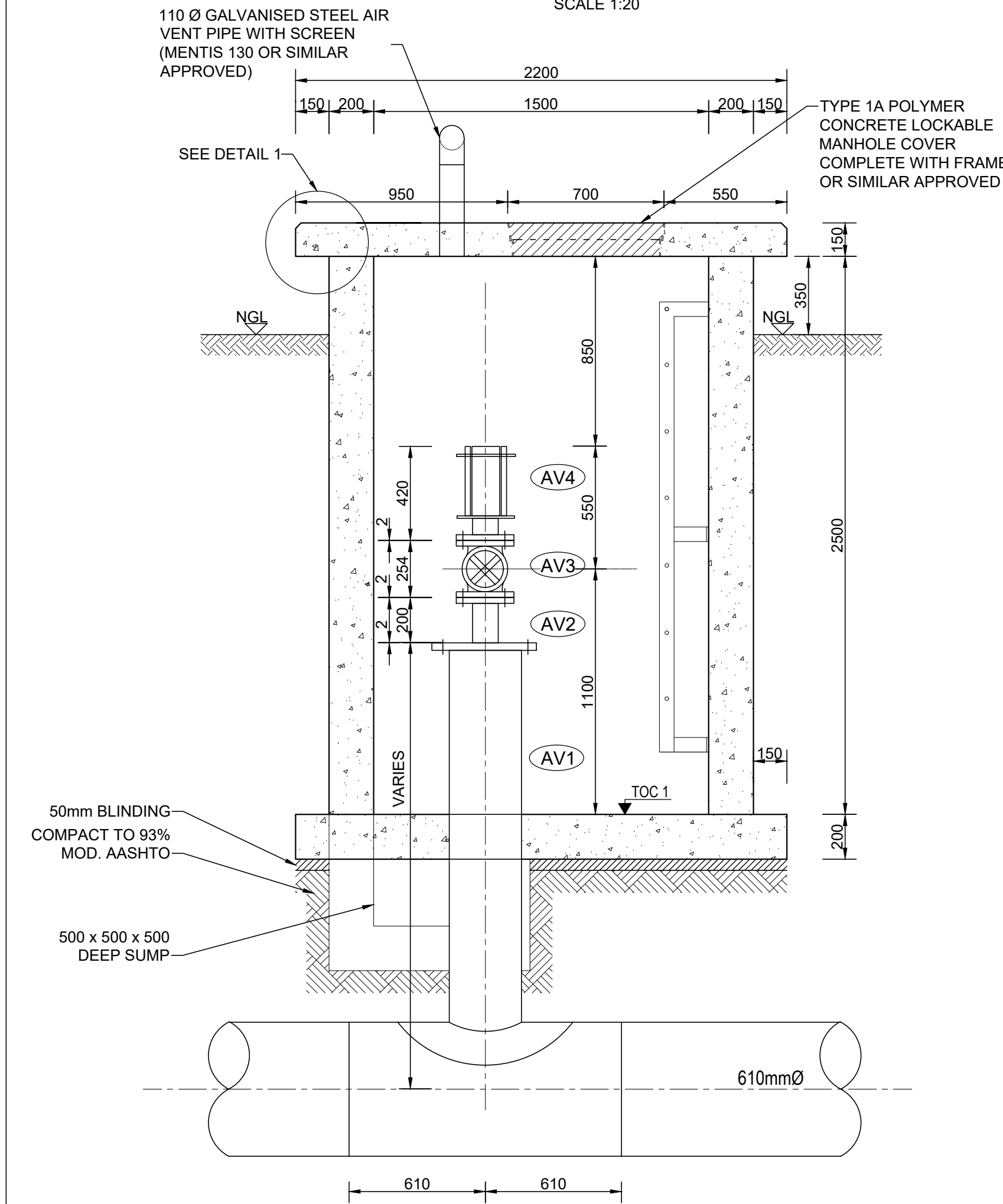
PLAN VIEW

SCALE 1:20



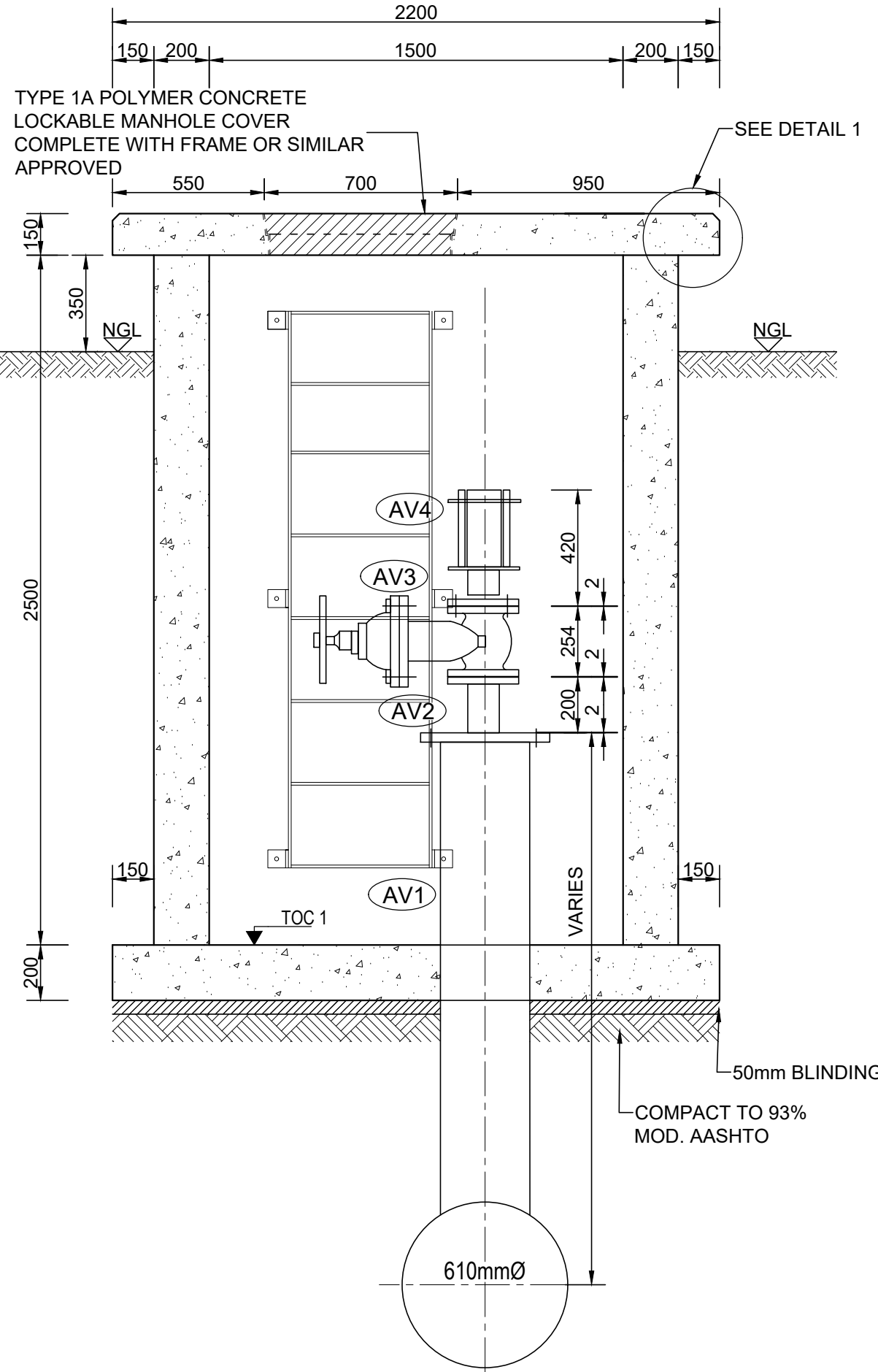
ROOF SLAB PLAN

SCALE 1:20



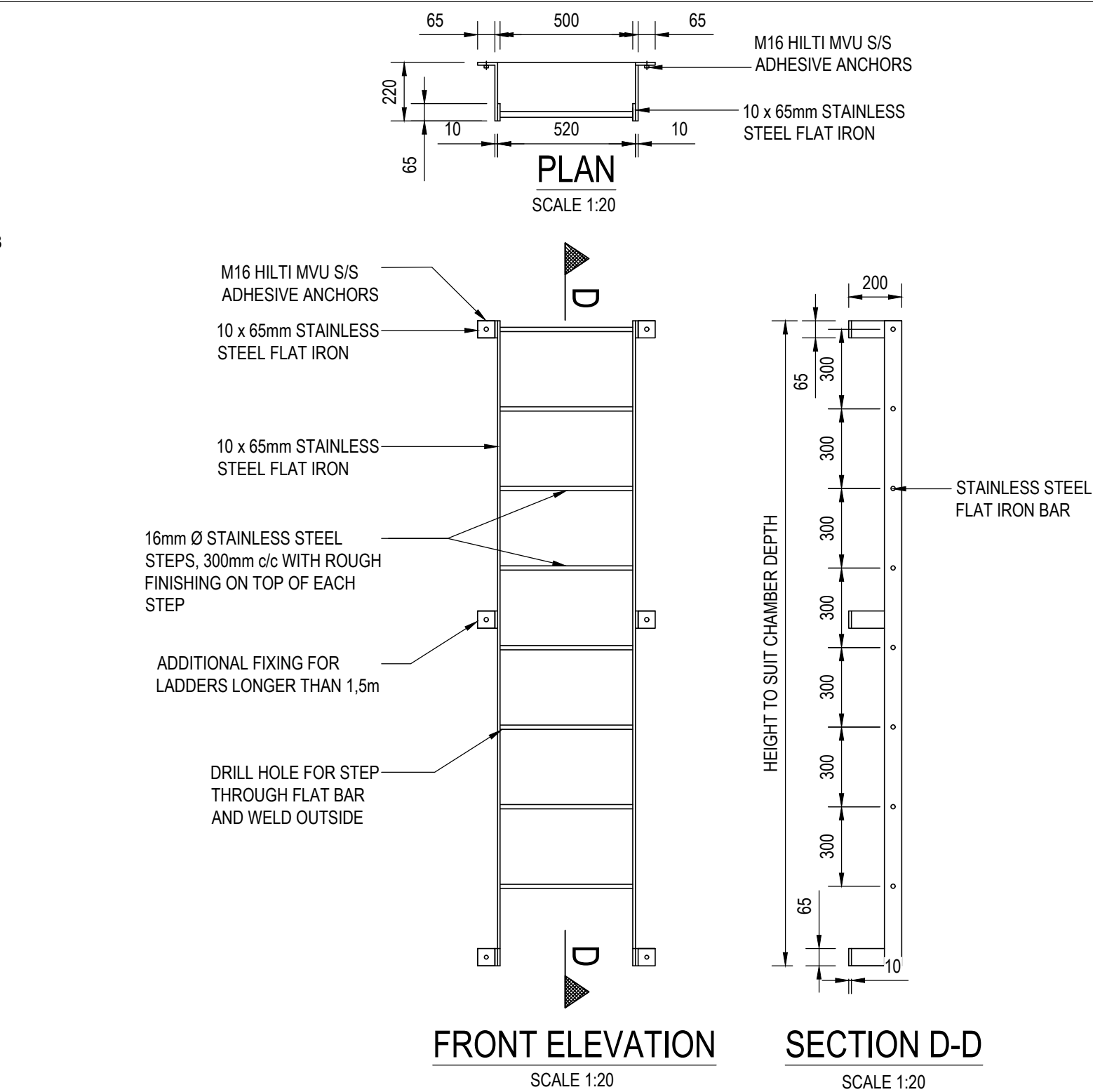
SECTION B-B

SCALE 1:20



SECTION A-A

SCALE 1:20



FRONT ELEVATION

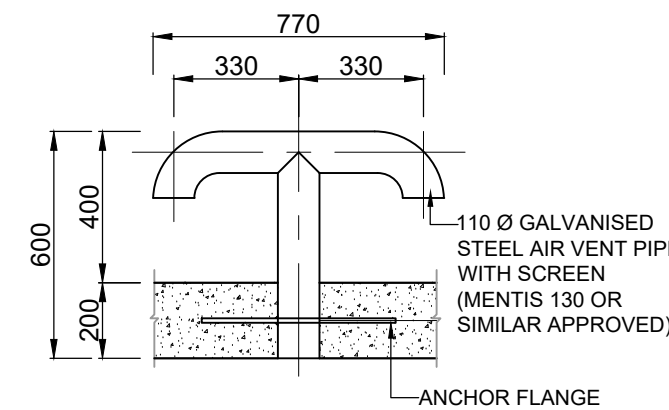
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SECTION D-D

SCALE 1:20

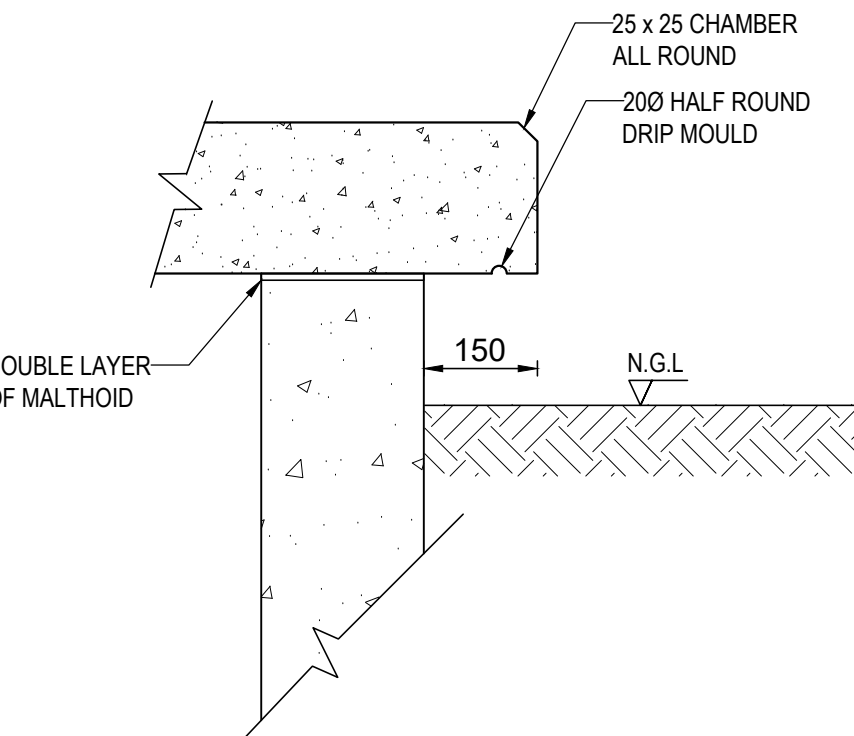
DETAIL 2: STAINLESS STEEL ACCESS LADDER

SCALE 1:20



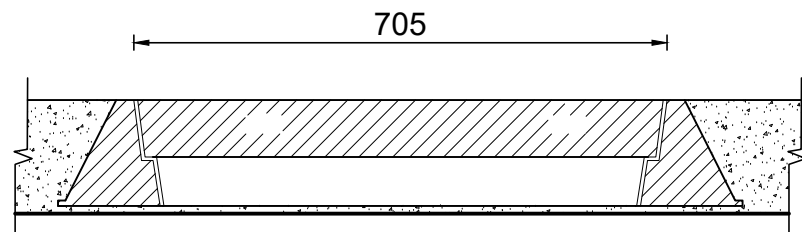
AIR VENT

SCALE 1:20



DETAIL 1

SCALE 1:10

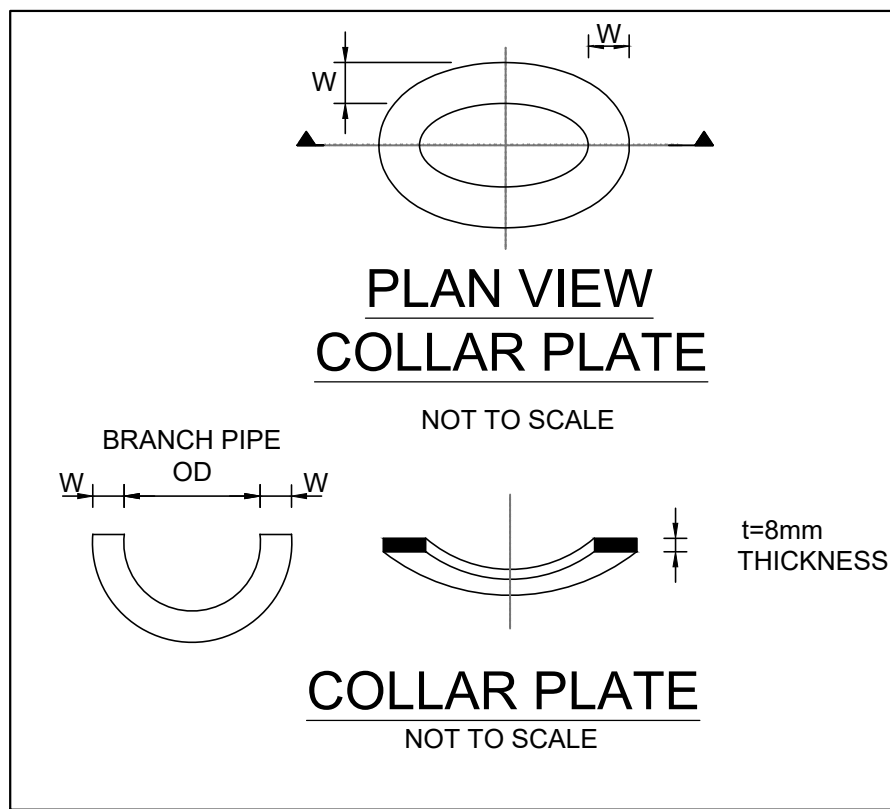


CONCRETE COVER
700mm ACCESS MANHOLE
DETAIL 2 - MANHOLE COVER

SCALE 1:10

NOTES:

- DRAWINGS MUST NOT BE SCALED.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH THE GENERAL NOTES DRAWINGS AND ALL PROJECT SPECIFICATIONS.
- ACCORDING TO THE COPYRIGHT ACT (ACT No 98 of 1978) NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WHATSOEVER INCLUDING MECHANICAL, ELECTRONIC, PHOTOCOPYING, MICROFILMING OR ANY OTHER SYSTEM OF INFORMATION STORAGE WITHOUT WRITTEN PERMISSION OF JOHANNESBURG WATER.
- ALL FITTINGS TO BE LINED WITH 600 MICRONS OF SOLVENT FREE FUSION BONDED EPOXY INTERNALLY & EXTERNALLY UNLESS OTHERWISE STATED.
- ALL FLANGES TO TABLE 1600/3 OF SANS 1123, UNLESS OTHERWISE STATED.
- FITTINGS ARE SUBJECT TO CHANGE UPON CONFIRMATION OF EXISTING PIPE MATERIALS.
- CONTRACTOR TO CONFIRM LOCATION OF ALL SERVICES AND DIMENSIONS OF FITTINGS BEFORE COMMENCEMENT OF MANUFACTURE. FINALS LEVELS TO BE CONFIRMED ON SITE BEFORE CONSTRUCTION.
- ALL BURIED FLANGED CONNECTIONS SHALL BE WRAPPED WITH PETROLATUM MASTIC AND PVC WRAPPING.
- CONTRACTOR TO PROVIDE TECHNICAL DETAILS OF TYPE 1A LOCKABLE POLYMER CONCRETE MANHOLE COVER AND FRAME FROM SUPPLIER FOR APPROVAL FROM THE ENGINEER BEFORE ORDERING.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED



STEEL PIPE FITTINGS AND ITEM LIST					
ITEM NO.	DIMENSIONS	MATERIAL	DESCRIPTION	QUANTITY	WALL THICKNESS (mm)
AV1		API 5L GRADE X42 STEEL	UNEQUAL TEE WITH 610mm OD PLAIN ENDED (PE) MAIN BARREL BEVELLED FOR SITE WELDING AND 323.9mm OD FLANGED CENTRAL BRANCH. PE - PE - 1220 mm LONG W = 162.5 mm	1	8mm
AV2		API 5L GRADE X42 STEEL	114.9mm OD 200mm LONG STRAIGHT PIPE WITH ONE END FLANGED TO A 114.9mm OD FLANGE AND THE OTHER WELDED ON A 300mm BLANK FLANGE DRILLED WITH A 114.9mm OD HOLE TO SANS 1123 TABLE 1600/3	1	8mm
AV3			100 mm ND RESILIENT SEAL GATE VALVE NON RISING SPINDLE MANUALLY AND HORIZONTALLY OPERATED, FLANGED BOTH ENDS F - F - 254mm	1	
AV4			100mm ND DOUBLE ACTING ORIFICE AIR RELEASE VALVE WITH ANTI-SHOCK DEVICE	1	

ISSUED FOR TENDER

LIDWALA CONSULTING ENGINEERS (SA) (PTY) LTD
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Fax: 021 717 753 5468
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DESIGNED:	M. MURIGO	AUGUST 2022
DRAWN:	E. DIPPENHAAR	AUGUST 2022
CHECKED:	M. MURIGO	AUGUST 2022
APPROVED BY:	SIGNATURE T. KLEYNHANS	DATE AUGUST 2022
ECSA REG. No.	20110139	
CHECKED BY:		
	SIGNATURE	DATE



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REPLACEMENT OF JOHANNESBURG WATER
600mm Ø STEEL PIPELINE FROM LIMBRO PARK RESERVOIR
TO BHEKILANGA PRV STATION IN ALEXANDRA
TYPICAL AIR VALVE CHAMBER

SURVEY INFORMATION		APPROVAL BY JW DEPOT		SCALE	AMENDMENTS		DRAWING No. JW14090R-AL-DET04-W	
PROJECT SURVEYOR:		CHECKED			REV:	DESCRIPTION	DATE:	
		APPROVED BY:			A	ISSUED FOR TENDER PURPOSES ONLY	AUGUST 2022	
DATE:		SIGNATURE	DATE					
CCTV INFORMATION		APPROVAL BY JW PLANNING						
CCTV COMPANY:		CHECKED						
		APPROVED BY:						
DATE:		SIGNATURE	DATE					

JW14090R-AL	DET 04	A
PROJECT No.	DRAWING No.	REV.
A1	1	1
ORIGINAL PAGE SIZE		
FILE No.		