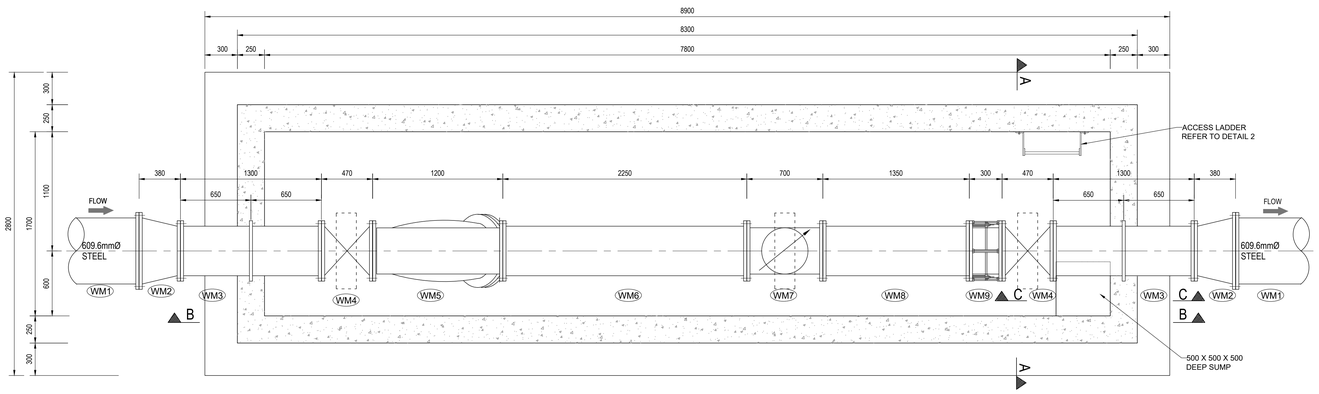
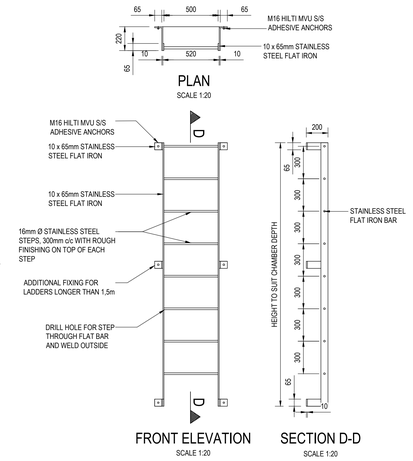


PLAN VIEW: CHAMBER DETAIL AND PIPE WORK

SCALE 1:20



PLAN

SCALE 1:20

FRONT ELEVATION

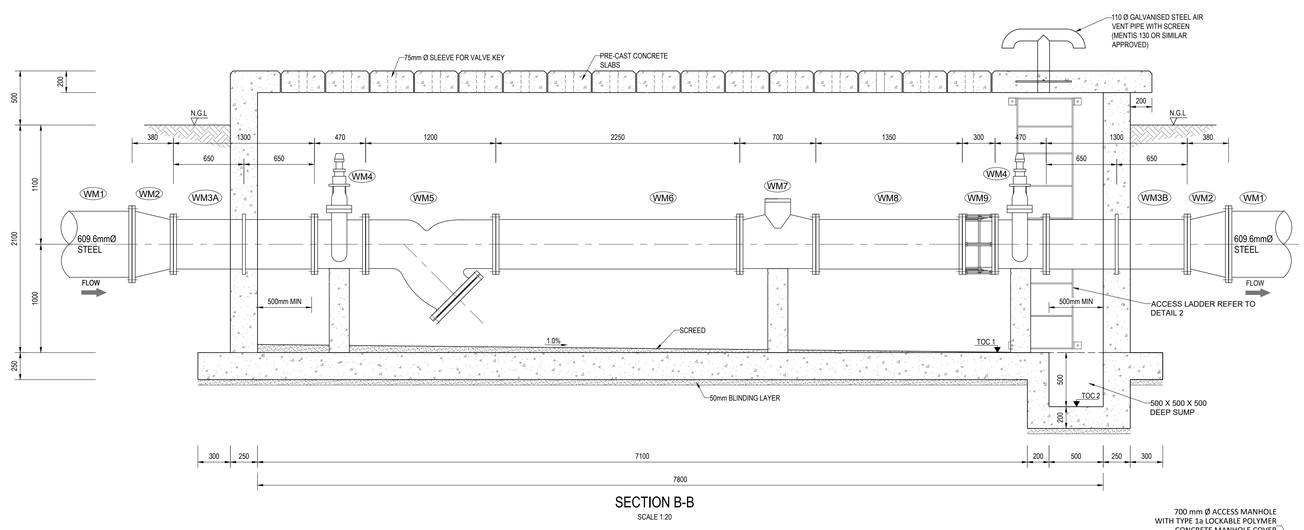
SCALE 1:20

SECTION D-D

SCALE 1:20

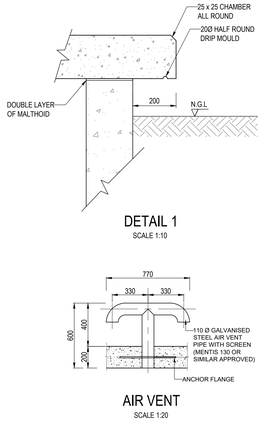
DETAIL 2: STAINLESS STEEL ACCESS LADDER

SCALE 1:20



SECTION B-B

SCALE 1:20

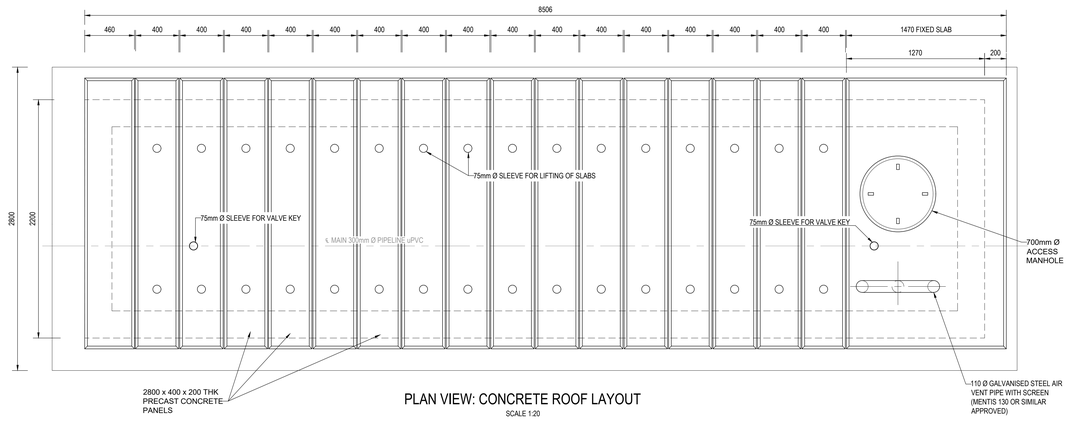


DETAIL 1

SCALE 1:10

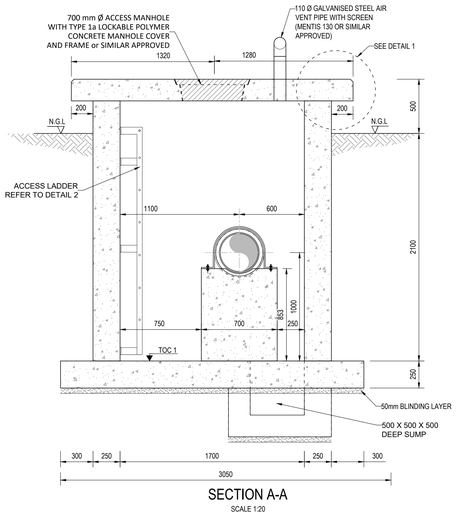
AIR VENT

SCALE 1:20



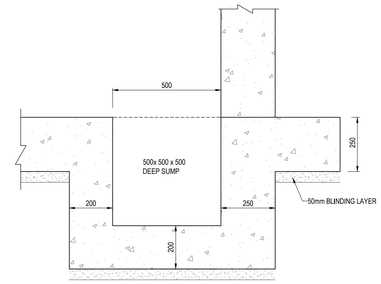
PLAN VIEW: CONCRETE ROOF LAYOUT

SCALE 1:20



SECTION A-A

SCALE 1:20



SECTION C-C : DRAINAGE SUMP

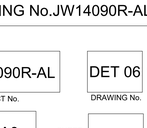
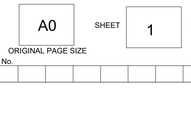
SCALE 1:10

NOTES:

1. DRAWINGS MUST NOT BE SCALED.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE GENERAL NOTES DRAWINGS AND ALL PROJECT SPECIFICATIONS.
3. 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.
4. ALL FITTINGS TO BE LINED WITH 600 MICRONS OF FUSION BONDED EPOXY INTERNALLY & EXTERNALLY UNLESS OTHERWISE STATED
5. ALL FLANGES TO TABLE 1600/3 OF SANS 1123.
6. FITTINGS ARE SUBJECT TO CHANGE UPON CONFIRMATION OF EXISTING PIPE MATERIALS.
7. CONTRACTOR TO CONFIRM LOCATION OF ALL SERVICES AND DIMENSIONS OF FITTINGS BEFORE COMMENCEMENT OF MANUFACTURE. FINALS LEVELS TO BE CONFIRMED ON SITE BEFORE CONSTRUCTION.
8. ALL BURIED FLANGED CONNECTIONS SHALL BE WRAPPED WITH PETROLATUM MASTIC AND PVC WRAPPING.
9. CONTRACTOR TO PROVIDE TECHNICAL DETAILS OF TYPE 1A LOCKABLE POLYMER CONCRETE MANHOLE COVER AND FRAME FROM SUPPLIER FOR APPROVAL FROM THE ENGINEER BEFORE ORDERING.
10. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

ISSUED FOR TENDER

FITTING SCHEDULE

Item No.	MATERIAL (kPa)	Description	QTY	WALL THICKNESS	PRESSURE RATING)	DIMENSIONS (mm)
WM2	ASTM 106 GRADE B SEAMLESS	609.6 mm OD TO 457.2 mm OD REDUCER WITH BOTH ENDS FLANGED LARGER FLANGE TO MATCH EXISTING FLANGE TO BE CONFIRMED ON SITE FLANGE TO FLANGE – 380 mm	2	8.38	1 600	
WM3	ASTM 106 GRADE B SEAMLESS	457.2 mm OD 1300mm LONG PIPE WITH ANCHOR FLANGE TO MATCH OD OF PIPE. ONE END FLANGED AND LOOSE FLANGE TO BE FITTED ON SITE. THE PLAIN END TO BE BEVELLED FOR SITE WELDING AND LOOSE FLANGE TO SUIT	2	8.38	1 600	
WM4	ASTM 106 GRADE B SEAMLESS	450 mm Ø ND DOUBLE FLANGED (FLAT FACED FULLY MACHINED) WEDGE-TYPE GATE VALVE FOR VERTICAL OPERATION, NON-RISING SPINDLE, ANTI-CLOCKWISE CLOSING WITH VALVE CAP TOP MANUALLY OPERATED WITH MULTI-STAGE OPEN SPUR GEARED DRIVES WITH THE RATIO OF THE GEAR DRIVES BEING 4:1 OR SIMILAR APPROVED, FLANGE TO FLANGE - 470mm	1	8.38	1 600	
WM5	ASTM 106 GRADE B SEAMLESS	450 mm ND FLANGED Y-STRAINER WITH FLUSHING PORT - FLANGE TO FLANGE 1200 mm	1	8.38	1 600	
WM6	ASTM 106 GRADE B SEAMLESS	457.2 mm OD 2250 mm LONG PIPE FLANGED BOTH ENDS	1	8.38	1 600	
WM7	ASTM 106 GRADE B SEAMLESS	450 mm ND BATTERY POWERED MAGFLOW METER COMPLETE WITH AUTOMATIC METER READING, FLANGE TO FLANGE - 700 mm	1	8.38	1 600	
WM8	ASTM 106 GRADE B SEAMLESS	457.2 mm OD 1350 mm LONG PIPE FLANGED BOTH ENDS	1	8.38	1 600	
WM9	ASTM 106 GRADE B SEAMLESS	450 mm ND KLAMFLEX DISMANTLING JOINT FLANGED BOTH ENDS, OR SIMILAR APPROVED. FLANGE TO FLANGE 300mm	1	8.38	1 600	

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DRAWN	E.DIPPENAAR	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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Joburg

REPLACEMENT OF JOHANNESBURG WATER
600mm Ø STEEL PIPELINE FROM LINBRO PARK RESERVOIR
TO BHEKILANGA PRV STATION IN ALEXANDRA

450mm BULK WATER METER CHAMBER

SURVEY INFORMATION		APPROVAL BY JW DEPOT		
PROJECT SURVEYOR:		CHECKED		
		APPROVED BY:		
DATE:			SIGNATURE	DATE
CCTV INFORMATION		APPROVAL BY JW PLANNING		
CCTV COMPANY:		CHECKED		
		APPROVED BY:		
DATE:			SIGNATURE	DATE

SCALE: AS SHOWN

REV:	AMENDMENTS	DATE:
A	ISSUED FOR TENDER PURPOSES ONLY	AUGUST 2022

DRAWING No.JW14090R-AL-DET06-W

JW14090R-AL — PROJECT No.
DET 06 — DRAWING No.
A — REV.
A0 — ORIGINAL PAGE SIZE
SHEET 1 OF 1
FILE No.

PRINT DATE: 18.08.2022