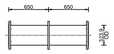
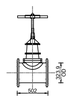
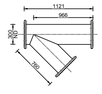
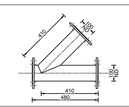
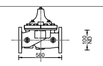
PIPE SCHEDULE

ITEM No.	DIMENSIONS	MATERIAL	DESCRIPTION	QTY	WALL THICKNESS (mm)	PRESSURE RATING (kPa)	FLANGES
1		ASTM 106 GRADE B SEAMLESS	323.9mm 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 BEVELED FOR SITE WELDING, AND LOOSE FLANGE TO SUIT. A 10mm THREADED BOSS TO SUIT BALL VALVES TO BE WELDED 100mm FROM THE PLAIN END. COMPLETE WITH PRESSURE LOGGING POINT. (LENGTH TO BE CONFIRMED ON SITE)	2	8	1 600	
2		ASTM 106 GRADE B SEAMLESS	323.9mm OD EQUAL TEE FLANGED ALL ENDS. FLANGE TO FLANGE – 610mm, CL TO FLANGE – 310mm	3	12		
3		SPHEROIDAL GRAPHITE GRADE 42	300mm Ø ND WEDGE-TYPE GATE VALVE FOR VERTICAL OPERATION, NON-RISING SPINDLE, DOUBLE FLANGED (FLAT FACED FULLY MACHINED) MANUALLY OPERATED WITH MULTI-STAGE OPEN SPUR GEARED DRIVES WITH THE RATIO OF THE GEAR DRIVES BEING 4:1 OR SIMILAR APPROVED	2	8	1 600	
4		ASTM 106 GRADE B SEAMLESS	323.9mm OD 500mm LONG DISTANCE PIECE WITH BOTH ENDS FLANGED	1	8	1 600	
5		ASTM 106 GRADE B SEAMLESS	300mm ND FLANGED Y-STRAINER WITH FLUSHING FACILITY FLANGE TO FLANGE – 1120mm	1	8	1 600	
6		ASTM 106 GRADE B SEAMLESS	323.9mm OD 900mm LONG DISTANCE PIECE WITH BOTH ENDS FLANGED	1	8	1 600	
7			300mm ND BATTERY POWERED MAGFLOW METER COMPLETE WITH AUTOMATIC METER READING	1		1 600	
8		ASTM 106 GRADE B SEAMLESS	323.9mm OD 600mm LONG DISTANCE PIECE WITH BOTH ENDS FLANGED	1	8	1 600	
9			300mm ND PRESSURE REDUCING VALVE	2		1 600	
10		ASTM 106 GRADE B SEAMLESS	323.9mm OD 380mm LONG DISTANCE PIECE WITH BOTH ENDS FLANGED	2	8	1 600	
11		DISMANTLING JOINT "DJ300"	300mm ND DISMANTLING JOINT FLANGED BOTH ENDS. FLANGE TO FLANGE - 485mm	2		1 600	
12		ASTM 106 GRADE B SEAMLESS	165.1mm OD 90˚ MEDIUM RADIUS BEND FLANGED BOTH ENDS	4	8	1 600	

PIPE SCHEDULE

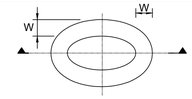
ITEM No.	DIMENSIONS	MATERIAL	DESCRIPTION	QTY	WALL THICKNESS (mm)	PRESSURE RATING (kPa)	FLANGES
13		ASTM 106 GRADE B SEAMLESS	114.9mm OD 615mm LONG DISTANCE PIECE WITH BOTH ENDS FLANGED	2	6	1 600	
14		ASTM 106 GRADE B SEAMLESS	114.9mm OD 600mm DISTANCE PIECE WITH BOTH ENDS FLANGED	4	6	1 600	
15		SPHEROIDAL GRAPHITE GRADE 42	100mm ND RESILIENT SEAL GATE VALVE DOUBLE FLANGED, NON-RISING SPINDLE MANUALLY OPERATED. FOR VERTICAL OPERATION	2		1 600	
16			100mm ND FLANGED Y-STRAINER WITH FLUSHING FACILITY FLANGED BOTH ENDS FLANGE TO FLANGE – 480mm	1	6	1 600	
17		ASTM 106 GRADE B SEAMLESS	114.9mm OD 1300mm LONG DISTANCE PIECE WITH BOTH ENDS FLANGED	1	6	1 600	
18			100mm ND BATTERY POWERED MAGFLOW METER COMPLETE WITH AUTOMATIC METER READING	1		1 600	
19			100mm ND PRESSURE REDUCING VALVE	2		1 600	
20		ASTM 106 GRADE B SEAMLESS	165.1mm OD 1495mm LONG PIPE ONE END FLANGED AND LOOSE FLANGE TO BE FITTED ON SITE. THE PLAIN END TO BE BEVELED FOR SITE WELDING, AND LOOSE FLANGE TO SUIT. (LENGTH TO BE CONFIRMED ON SITE)	1	6	1 600	
21		DISMANTLING JOINT "DJ150"	100mm ND DISMANTLING JOINT FLANGED BOTH ENDS. FLANGE TO FLANGE - 300mm	1		2 500	
22		ASTM 106 GRADE B SEAMLESS	114.9mm OD 100mm LONG STRAIGHT PIECE WITH ONE END FLANGED AND THE OTHER END WELDED ON A 323.9mm OD BLANK FLANGE DRILLED WITH A 114.9mm OD HOLE	1	6	1 600	
23		ASTM 106 GRADE B SEAMLESS	100mm ND DOUBLE ORIFICE AIR RELEASE VALVE WITH ANTI-SHOCK	1		1 600	
24		ASTM 106 GRADE B SEAMLESS	114.9mm OD 480mm LONG STRAIGHT PIECE WITH ONE END FLANGED AND THE OTHER END WELDED TO A 323.9mm OD BLANK FLANGE DRILLED ITH A 114.9mm OD HOLE	2	6	1 600	

NOTES:

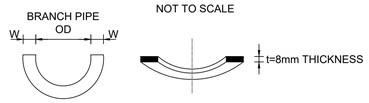
1. DRAWINGS MUST NOT BE SCALED.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE GENERAL NOTES DRAWINGS AND ALL PROJECT SPECIFICATIONS.
3. ACCORDING TO THE COPYRIGHT ACT (ACT No 98 OF 1978) NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM OR BY ANY 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.
11. SW = SITE WELD

ALL PRV SHALL COMPLY WITH FOLLOWING SPECIFICATIONS:

1. DUCTILE IRON BODY AND COVER WITH STAINLESS STEEL TRIM.
2. FUSION BONDED EPOXY COATED INTERNALLY AND EXTERNALLY TO A MINIMUM OF 600 MICRONS.
3. PRESSURE RATING PN 16 RATED.
4. MUST BE FLANGED AND DRILLED TO SANS 1123 TABLE 16/300, INCLUDING CUTTING OF PIPES, COUPLING etc.



PLAN VIEW
COLLAR PLATE
NOT TO SCALE



COLLAR PLATE
NOT TO SCALE

ISSUED FOR TENDER

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DESIGNED	M.MURIGO	AUGUST 2022
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

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

300mm Ø PRESSURE REDUCING VALVE CHAMBER
PIPE SCHEDULE

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:	DESCRIPTION	DATE:
A	ISSUED FOR TENDER PURPOSES ONLY	AUGUST 2022

DRAWING No.JW14090R-AL-DET11-W

JW14090R-AL (PROJECT No.) | DET 11 – A (DRAWING No. – REV.)

A1 (ORIGINAL PAGE SIZE) | SHEET 1 OF 1

FILE No.

PRINT DATE: 18.08.2022