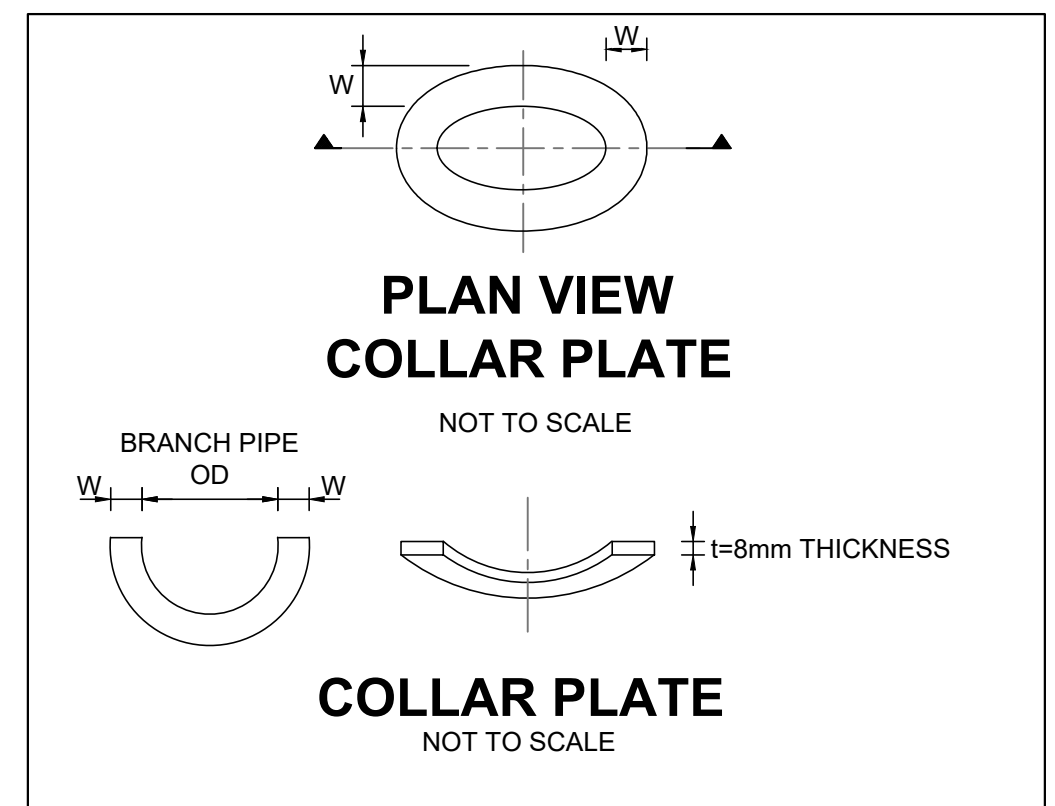


- NOTES:**
- DRAWINGS MUST NOT BE SCALED.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH THE GENERAL NOTES DRAWINGS AND ALL PROJECT SPECIFICATIONS.
 - ACCORDING TO THE COPYRIGHT ACT (ACT No 98 OF 1978) NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM 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 FUSION BONDED EPOXY INTERNALLY & EXTERNALLY UNLESS OTHERWISE STATED.
 - ALL FLANGES TO TABLE 1600/3 OF SANS 1123.
 - 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.
 - SW = SITE WELD



ISOLATION VALVE CHAMBER						
STEEL PIPE FITTINGS AND ITEM LIST						
ITEM NR.	DIMENSIONS	MATERIAL	DESCRIPTION	QTY	WALL THICKNESS (mm)	PRESSURE RATING (kPa)
IV1		ASTM 106 GRADE B SEAMLESS	457.2mm OD 1330mm LONG PIPE WITH CENTRAL 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. (LENGTH TO BE CONFIRMED ON SITE)	2	8	1600
IV2		ASTM 106 GRADE B SEAMLESS	457.2mm OD UNEQUAL TEE. 457.2mm OD FLANGED MAIN BARREL WITH A CENTRAL 168.3mm OD FLANGED BRANCH WITH COLLAR PLATE (SEE DETAIL 1 FOR COLLAR PLATE). FLANGE TO FLANGE - 920mm, 1/2 TO FLANGE - 480mm W = 85 mm	2	8	1600
IV3		SPHEROIDAL GRAPHITE GRADE 42	450mm OD ND WEDGE-TYPE GATE VALVE FOR VERTICAL OPERATION, NON-RISING SPINDLE, WITH CAP TOP. DOUBLE FLANGED (FLAT FACED FULLY MACHINED) MANUALLY OPERATED WITH MULLI STAGE OPEN SPUR GEARED DRIVES WITH THE RATIO OF THE GEAR DRIVES BEING 4:1 OR SIMILAR APPROVED. FLANGE TO FLANGE - 470mm	1		1600
IV4		ASTM 106 GRADE B SEAMLESS	168.3mm OD 300mm LONG STRAIGHT PIPE BOTH ENDS FLANGED	2	8	1600
IV5		ASTM 106 GRADE B SEAMLESS	168.3mm 90° LONG RADIUS BEND. BOTH ENDS FLANGED 1/2 TO FLANGE - 450mm	4	8	1600
IV6		ASTM 106 GRADE B SEAMLESS	168.3mm OD 300mm 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 (LENGTH TO BE CONFIRMED ON SITE)	1	8	1600
IV7		SPHEROIDAL GRAPHITE GRADE 42	150mm ND RESILIENT SEAL GATE VALVE DOUBLE FLANGED NON-RISING SPINDLE, WITH CAP TOP. MANUALLY AND HORIZONTALLY OPERATED. FLANGE TO FLANGE 280mm	1	8	1600
IV8		ASTM 106 GRADE B SEAMLESS	610mm OD TO 457.2mm OD REDUCER WITH BOTH ENDS FLANGED, FLANGE TO FLANGE - 380mm	2	8	1600
IV9		ASTM 106 GRADE B SEAMLESS	450 mm ND KLAMFLEX DISMANTLING JOINT FLANGED BOTH ENDS, OR SIMILAR APPROVED. FLANGE TO FLANGE 300mm	1		1600
IV10		ASTM 106 GRADE B SEAMLESS	150mm ND KLAMFLEX DISMANTLING JOINT FLANGED BOTH ENDS, OR SIMILAR APPROVED. FLANGE TO FLANGE 205mm	1		1600

ISSUED FOR TENDER

CONSULTING ENGINEERS LIDWALA CONSULTING ENGINEERS (SA) (PTY) LTD Tel: 0861 1234567 (0861 543 3212) Fax: 021 11 700 5486 Postal Suite # 128 Private Bag 201 BRYANSTON, 2021 Corner Main Office Park, Block B, 1st Floor, Unit 1 2 Pines Road Bryanston, 2191 Email: info@lidwala.com Web: www.lidwala.com Offices: Botswana, Mozambique, Namibia, South Africa, Tanzania, Zambia, Zimbabwe		DESIGNED: M. MURIGO AUGUST 2022 DRAWN: G. MALINOWSKI AUGUST 2022 CHECKED: M. MURIGO AUGUST 2022 APPROVED BY: T. KLEYNHANS DATE: AUGUST 2022 ECSA REG. No: 20110139 CHECKED BY:	 Lidwala	 Johannesburg Water	17 HARRISON STREET MARSHALLTOWN 2107 TEL: (011) 688-1400 FAX: (011) 688-1529	 Joburg	REPLACEMENT OF JOHANNESBURG WATER 600mm DIA STEEL PIPELINE FROM LINBRO PARK RESERVOIR TO BHEKILANGA PRV STATION TO ALEXANDRA ISOLATING VALVE CHAMBER FOR 600mm ND PIPELINE	SURVEY INFORMATION PROJECT SURVEYOR: DATE: CCTV INFORMATION CCTV COMPANY: DATE:	INFORMATION BY JW DEPOT CHECKED: APPROVED BY: SIGNATURE DATE:	SCALE AS SHOWN	CONSULTANT DETAIL REV: A DESCRIPTION: ISSUED FOR TENDER PURPOSES ONLY DATE: AUGUST 2022	AMENDMENTS	DRAWING No. JW14090R-AL-DET03-W JW14090R-AL DET 03 A A0 SHEET 1 OF 1 ORIGINAL PAGE SIZE FILE No.
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