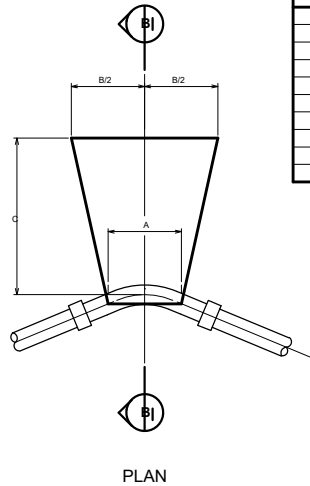
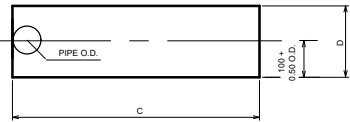


DIMENSIONS FOR PIPE BENDS					
PIPE DIA.	DEFLECTION ANGLE	OPERATING PRESSURE			
		0.4 - 0.9 MPa			
		A	B	C	D
50	11.25°	75	200	65	200
	22.5°	75	200	65	200
	45°	75	200	65	200
	90°	75	300	115	300
63	11.25°	95	250	80	250
	22.5°	95	250	80	250
	45°	95	250	80	250
	90°	95	300	105	400
75	11.25°	115	250	70	300
	22.5°	115	250	70	300
	45°	115	250	70	300
	90°	115	400	145	400
90	11.25°	135	300	85	350
	22.5°	135	300	85	350
	45°	135	300	85	350
	90°	135	500	185	500
110	11.25°	165	400	120	450
	22.5°	165	400	120	450
	45°	165	400	120	450
	90°	165	700	270	600
125	11.25°	190	500	160	500
	22.5°	190	500	160	500
	45°	190	500	160	500
	90°	190	850	330	650
140	11.25°	100	550	225	550
	22.5°	100	550	225	550
	45°	100	550	225	550
	90°	210	1000	395	700
160	11.25°	100	700	300	600
	22.5°	100	700	300	600
	45°	100	700	300	600
	90°	240	1300	530	700
200	11.25°	100	1000	450	700
	22.5°	100	1000	450	700
	45°	100	1000	450	700
	90°	375	2400	1015	800

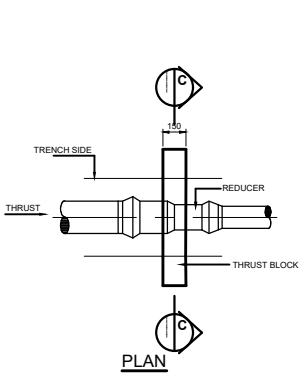


PLAN

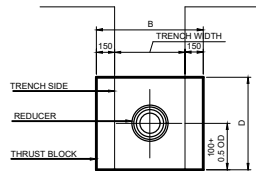


SECTION B

THRUST BLOCK DETAILS
N.T.S



PLAN

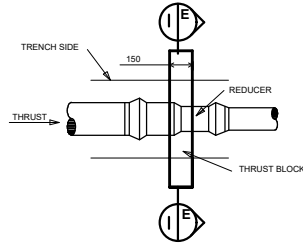


SECTION C-C

DIMENSIONS FOR REDUCERS		
PIPE DIA.	OPERATING PRESSURE	
	0.4-0.9 MPa	
	B	D
50	350	350
63	500	450
75	650	500
110	1200	600

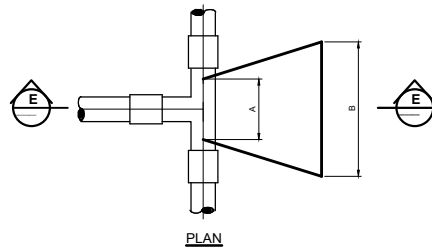
THRUST BLOCK DETAILS FOR REDUCERS
NOT TO SCALE

DIMENSIONS FOR REDUCERS		
PIPE DIA.	OPERATING PRESSURE	
	0.4-0.9 MPa	
	B	D
50	350	350
63	500	450
75	650	500
90	850	600
110	1200	600
125	1450	600
140	1700	700
160	2100	700
200	2800	700
250	3700	800



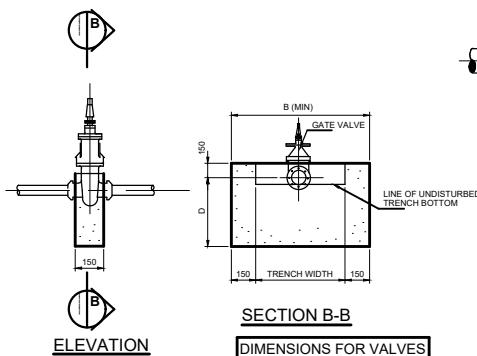
SECTION E

THRUST BLOCK DETAILS FOR REDUCERS
NOT TO SCALE



PLAN

THRUST BLOCK DETAILS AT TEE JUNCTIONS
NOT TO SCALE

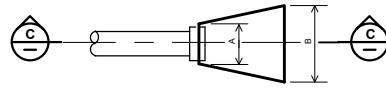


ELEVATION

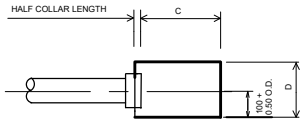
SECTION B-B

DIMENSIONS FOR VALVES		
PIPE DIA.	OPERATING PRESSURE	
	0.4-0.9 MPa	
	B	D
50	350	350
63	500	450
75	650	500
110	1200	600

ANCHOR BLOCK DETAILS FOR VALVES
N.T.S



PLAN

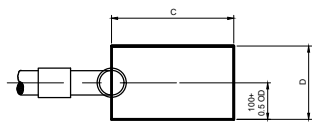


SECTION C

THRUST BLOCKS AT END CAPS
N.T.S

DIMENSIONS FOR TEES AND END CAPS				
PIPE DIA.	OPERATING PRESSURE			
	0.4 - 0.9 MPa			
	A	B	C	D
50	75	350	140	350
63	95	500	205	450
75	115	650	270	500
90	135	850	360	600
110	165	1200	520	600
125	190	1450	630	600
140	210	1700	745	700
160	240	2100	930	700
200	300	2800	1250	700
250	375	3700	1665	800

DIMENSIONS FOR TEES AND END CAPS				
PIPE DIA.	OPERATING PRESSURE			
	0.4 - 0.9 MPa			
	A	B	C	D
50	75	350	140	350
63	95	500	205	450
75	115	650	270	500
110	165	1200	520	600



SECTION D-D

FOR TENDER			
CONTRACT No.	DESCRIPTION	CERTIFIED BY	DATE
CERTIFIED CONSTRUCTION DRAWING FOR CONTRACTOR :			
		ENGINEER	DATE

VERSION/AMENDMENTS			
No.	DATE	DESCRIPTION	AUTHORISED BY

CONSULTING ENGINEERS: MAHLANGU – BEHR & ASSOCIATES INFRASTRUCTURE CONSULTANTS 27 Adrin Street Reyno Manor Tel. 083 344 4448 Reyno Ridge Fax. 086 547 9210 WITBANK, 1035 Email. Mbainfraconsult@gmail.com
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PROJECT TITLE: PROJECT JSM W-20/20-21/W19 REPLACEMENT OF ASBESTOS PIPE AND RETICULATION AT MAKOMETSANE DRAWING TITLE: CONCRETE THRUST BLOCK CONFIGURATION
--

CLIENT: Dr JS MOROKA LOCAL MUNICIPALITY  Private Bag X 4012 SIYABUSWA 0472 TEL: (013) 973 1390 FAX: (013) 973 2463

0 50 100 100mm ON ORIGINAL DRAWING ORIGINAL DRAWING SCALE: N.T.S ORIGINAL DRAWING SHEET SIZE: A1 APPROVED: CLIENT OR ASSIGNEE: _____ DATE: _____ CLIENT DRAWING No.: _____ CLIENT REF No.: _____
--

SURVEYED: - DESIGNED: N.B DRAWN: S.C CHECKED: S.C CO-ORDINATE SYSTEM: - DATE: _____ APPROVED ON BEHALF OF ENG CONSULTING: ENGINEER: _____ DATE: _____ DRAWING No.: MBA-000/000 VERSION: R0.1
