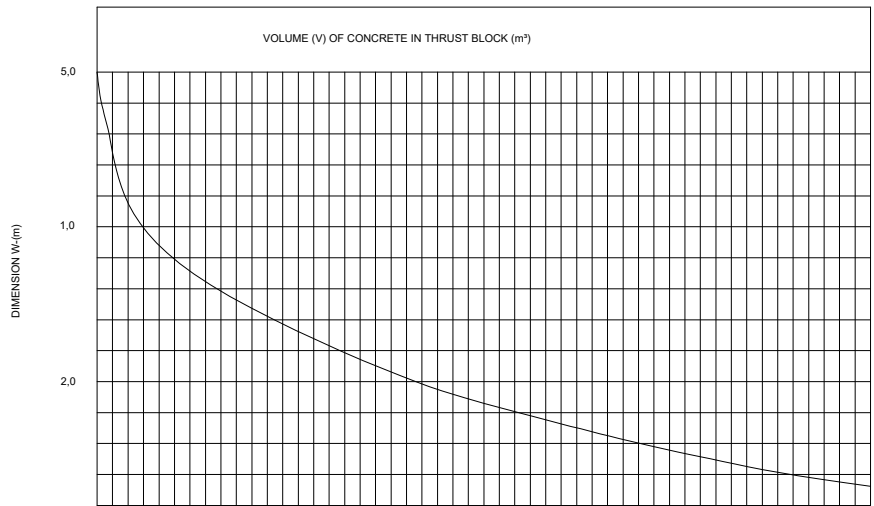
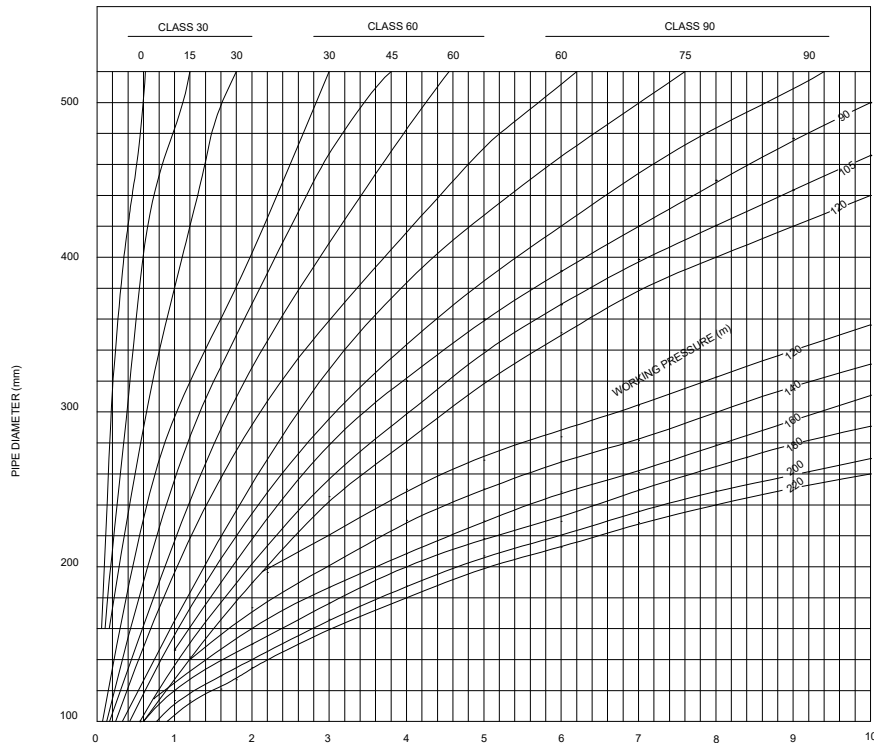
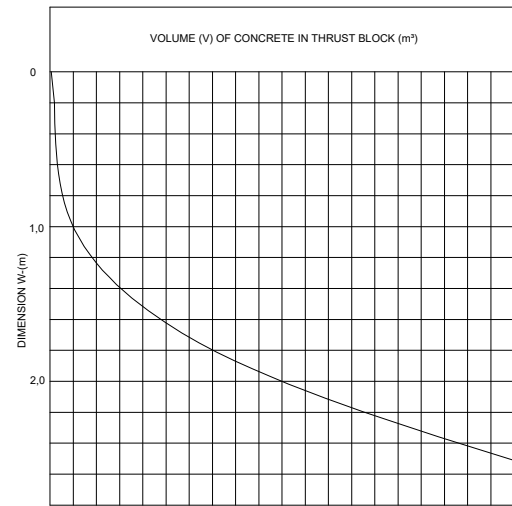
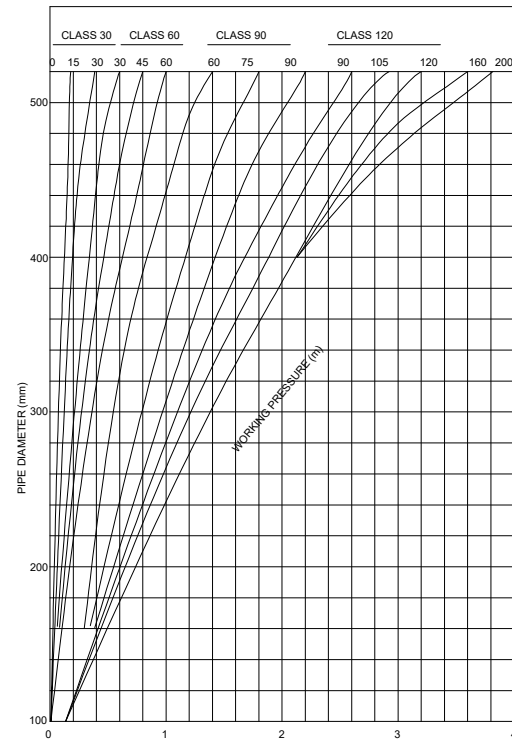


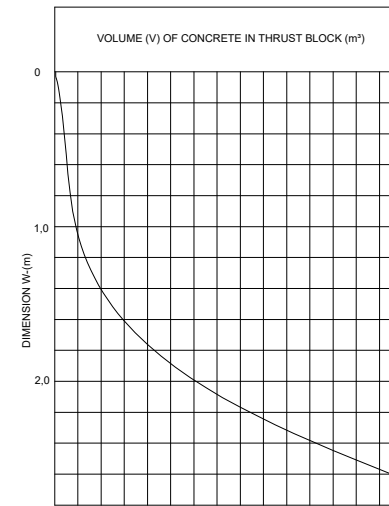
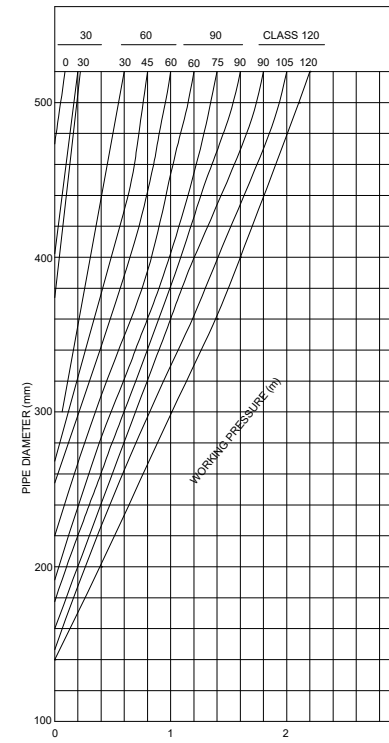
90° BEND AND END CAP



45° BEND AND T-PIECE



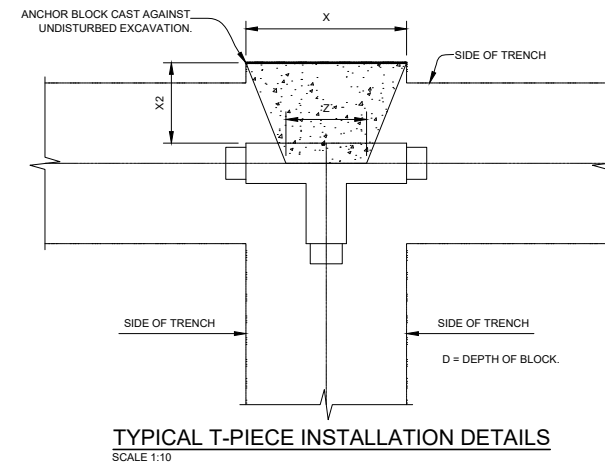
22.5° BEND



GRAPHICAL DIMENSION CALCULATION SHEET:  
THRUST BLOCK DIMENSIONS  
N.T.S.

**DIMENSIONS OF ANCHOR BLOCK FOR T-PIECE**

PIPE DIAMETER	X	D	Z
300	1950	1200	550
225	1475	900	425
200	1300	800	350
150	1000	600	275
100	650	400	200
75	600	300	150
50	325	200	100



TYPICAL T-PIECE INSTALLATION DETAILS  
SCALE 1:10

TYPICAL DESCRIPTION

- 90° BEND & END CAP  
75MM DIA: 'W' = 0.5m MINIMUM  
110MM DIA: 'W' = 0.6m MINIMUM  
160MM DIA: 'W' = 0.75m MINIMUM  
200MM DIA: 'W' = 0.8m MINIMUM  
250MM DIA: 'W' = 0.85m MINIMUM
- 45° BEND & T-PIECE  
75MM DIA: 'W' = 0.5m MINIMUM  
110MM DIA: 'W' = 0.6m MINIMUM  
160MM DIA: 'W' = 0.75m MINIMUM  
200MM DIA: 'W' = 0.8m MINIMUM  
250MM DIA: 'W' = 0.85m MINIMUM
- 22.5° & 11° BENDS  
75MM DIA: 'W' = 0.5m MINIMUM  
110MM DIA: 'W' = 0.6m MINIMUM  
160MM DIA: 'W' = 0.75m MINIMUM  
200MM DIA: 'W' = 0.8m MINIMUM  
250MM DIA: 'W' = 0.85m MINIMUM

FOR TENDER PURPOSES

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RA	REVISED PROJECT DESCRIPTION	2022/06/09	P.M
Rev	Description	Date	By

SERVICE

**WATER**

DESIGNED	J. LUCKHOFF
DRAWN	M. DAVEL
CAD FILE NAME	N3110RWW11002RB-003RA.dwg
CHECKED	W.J. STRYDOM (jnr)
APPROVED	W.J. STRYDOM (jnr)

**ENDECON**  
UBUNTU (PTY) LTD  
ENGINEERING CONSULTANTS  
P.O. BOX 10345  
MBOMBELA  
1200  
Tel: (013) 755 1190  
Fax: (013) 755 4904

CLIENT

**Nkangala District Municipality**

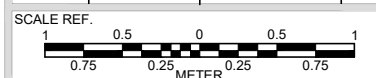
PROJECT

**LOSKOP REGIONAL BULK WATER SUPPLY SCHEME: WORK PACKAGE 2**

TITLE

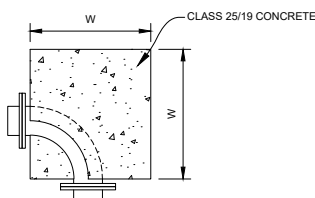
**RAW WATER GRAVITY MAIN ALONG CANAL ROUTE : GENERAL DETAILS: SHEET 2 OF 2**

DATE	DECEMBER 2021
SCALE   AS SHOWN	PAPER SIZE   A1

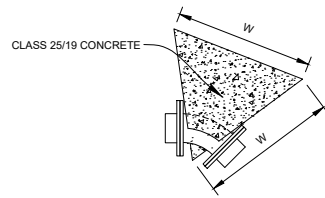


CONSULTANT DWG. NO.  
**N/3110/RW/W/11/003/RA**  
CLIENT DWG. NO.

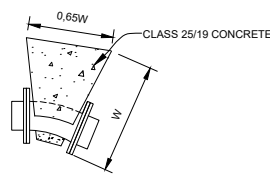
PLAN: 90° BEND AND END CAP  
N.T.S.



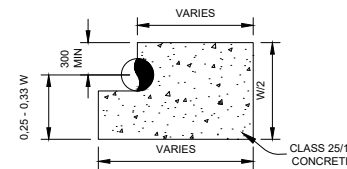
PLAN: 45° BEND AND EQUAL TEE-PIECE  
N.T.S.



PLAN: 22.5° BEND  
N.T.S.



TYPICAL SECTION THROUGH THRUST BLOCK  
N.T.S.



TYPICAL DETAILS OF THRUST BLOCKS