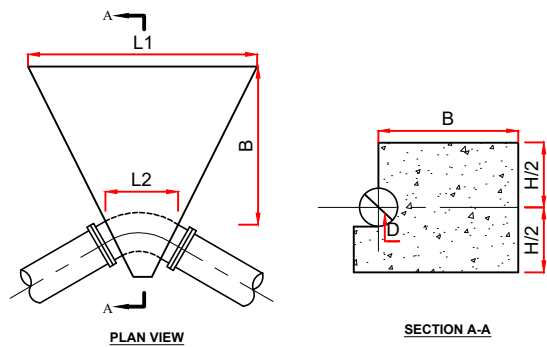
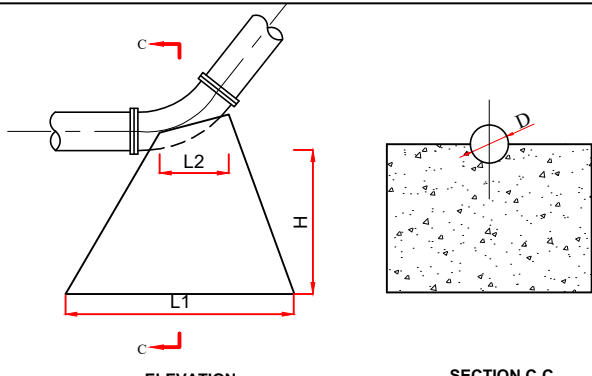


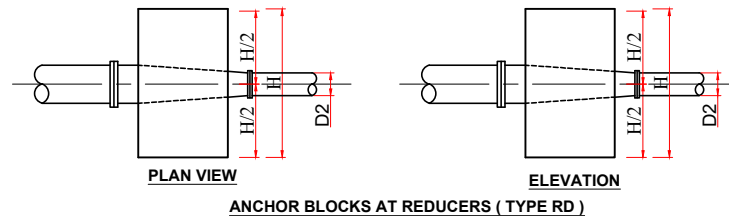
NOTES



HORIZONTAL ANCHOR BLOCKS AT BENDS (TYPE HB)



VERTICAL ANCHOR BLOCK AT DEPRESSIONS (TYPE DV)

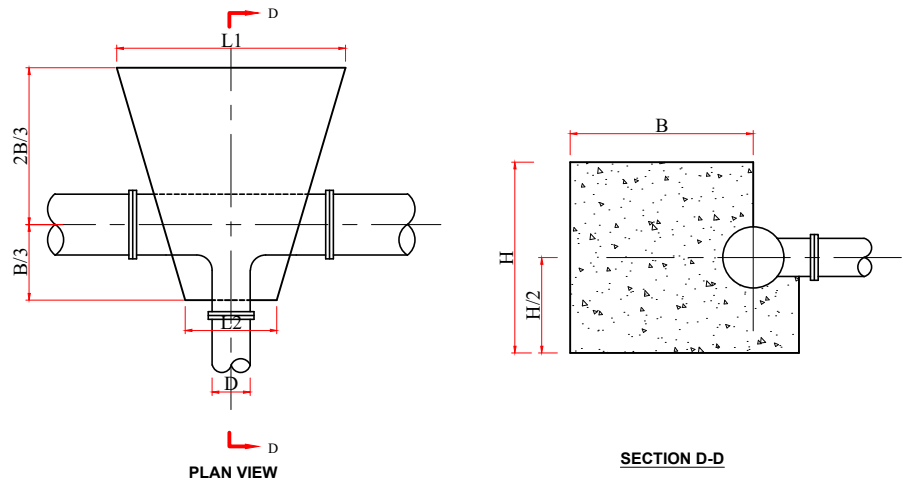


ANCHOR BLOCKS AT REDUCERS (TYPE RD)

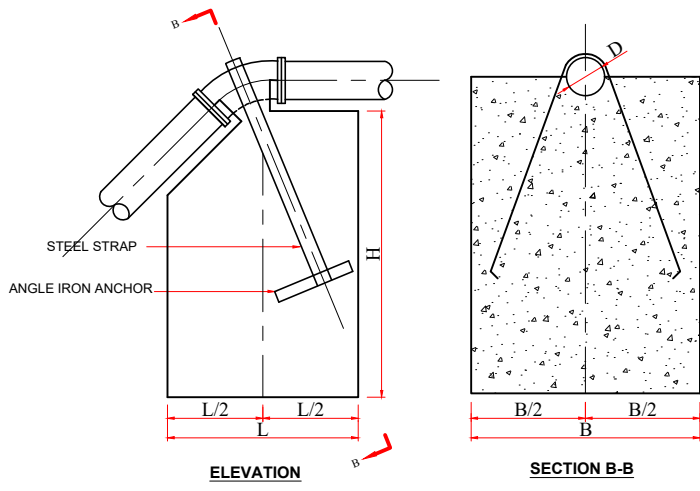
HORIZONTAL BENDS (TYPE HB)																	
Normal Diameter	Test Pressure	90° Bend				45° Bend				22 ¹ / ₂ ° Bend				11 ¹ / ₄ ° Bend			
OD (mm)	m	L1 m	L2 m	B m	H m	L1 m	L2 m	B m	H m	L1 m	L2 m	B m	H m	L1 m	L2 m	B m	H m
40 - 80	250	1.00	0.24	0.35	0.50	0.60	0.24	0.30	0.40	0.50	0.24	0.20	0.20	0.40	0.24	0.20	0.20
	225	0.60	0.24	0.30	0.40	0.50	0.24	0.25	0.30	0.40	0.24	0.20	0.20	0.30	0.24	0.20	0.20
	180	0.60	0.24	0.25	0.30	0.50	0.24	0.23	0.25	0.40	0.24	0.20	0.20	0.30	0.24	0.20	0.20
	135	0.60	0.24	0.25	0.30	0.50	0.24	0.20	0.20	0.40	0.24	0.20	0.20	0.30	0.24	0.20	0.20
	90	0.60	0.24	0.20	0.20	0.50	0.24	0.20	0.20	0.40	0.24	0.20	0.20	0.30	0.24	0.20	0.20
80 - 100	250	1.00	0.30	0.35	0.50	0.80	0.30	0.80	0.80	0.80	0.30	0.60	0.60	0.60	0.30	0.60	0.60
	225	0.90	0.30	0.30	0.40	0.60	0.30	0.80	0.80	0.80	0.30	0.60	0.60	0.60	0.30	0.60	0.60
	180	0.60	0.30	0.25	0.30	0.60	0.30	0.80	0.80	0.80	0.30	0.60	0.60	0.60	0.30	0.60	0.60
	135	0.60	0.30	0.25	0.30	0.60	0.30	0.80	0.80	0.80	0.30	0.60	0.60	0.60	0.30	0.60	0.60
	90	0.60	0.30	0.20	0.20	0.60	0.30	0.80	0.80	0.80	0.30	0.60	0.60	0.60	0.30	0.60	0.60
100 - 150	250	0.20	0.45	0.80	0.80	0.80	0.45	0.80	0.80	0.80	0.45	0.70	0.70	0.60	0.45	0.60	0.60
	225	1.20	0.45	0.80	0.80	0.80	0.45	0.80	0.80	0.80	0.45	0.70	0.70	0.60	0.45	0.60	0.60
	180	1.00	0.45	0.80	0.80	0.80	0.45	0.80	0.80	0.80	0.45	0.70	0.70	0.60	0.45	0.60	0.60
	135	1.00	0.45	0.60	0.60	0.80	0.45	0.80	0.80	0.60	0.45	0.70	0.70	0.60	0.45	0.60	0.60
	90	1.00	0.45	0.60	0.60	0.60	0.45	0.80	0.80	0.60	0.45	0.70	0.70	0.60	0.45	0.60	0.60

VERTICAL BENDS - DEPRESSIONS (TYPE DV)														
Normal Diameter	Test Pressure	45° Bend				22 ¹ / ₂ ° Bend				11 ¹ / ₄ ° Bend				
OD (mm)	m	L1 m	L2 m	B m	H m	L1 m	L2 m	B m	H m	L1 m	L2 m	B m	H m	
40 - 80	250	0.40	0.16	0.30	0.50	0.40	0.16	0.30	0.50	0.40	0.16	0.20	0.50	
	225	0.40	0.16	0.27	0.50	0.40	0.16	0.30	0.50	0.40	0.16	0.20	0.50	
	180	0.40	0.16	0.30	0.50	0.40	0.16	0.30	0.50	0.40	0.16	0.20	0.50	
	135	0.40	0.16	0.30	0.50	0.40	0.16	0.30	0.50	0.40	0.16	0.20	0.50	
	90	0.40	0.16	0.30	0.50	0.40	0.16	0.30	0.50	0.40	0.16	0.20	0.50	
80 - 100	250	0.40	0.20	0.30	0.50	0.40	0.20	0.30	0.50	0.40	0.20	0.20	0.50	
	225	0.40	0.20	0.30	0.50	0.40	0.20	0.30	0.50	0.40	0.20	0.20	0.50	
	180	0.40	0.20	0.30	0.50	0.40	0.20	0.30	0.50	0.40	0.20	0.20	0.50	
	135	0.40	0.20	0.30	0.50	0.40	0.20	0.30	0.50	0.40	0.20	0.20	0.50	
	90	0.40	0.20	0.30	0.50	0.40	0.20	0.30	0.50	0.40	0.20	0.20	0.50	
100 - 150	250	0.80	0.30	0.40	0.55	0.70	0.30	0.30	0.55	0.50	0.30	0.30	0.55	
	225	0.70	0.30	0.40	0.55	0.60	0.30	0.30	0.55	0.50	0.30	0.30	0.55	
	180	0.70	0.30	0.40	0.55	0.50	0.30	0.30	0.55	0.50	0.30	0.30	0.55	
	135	0.70	0.30	0.30	0.55	0.50	0.30	0.30	0.55	0.40	0.30	0.30	0.55	
	90	0.60	0.30	0.30	0.55	0.40	0.30	0.30	0.55	0.40	0.30	0.30	0.55	

REDUCERS (TYPE RD)					
Normal Diameter	Test Pressure				
OD (mm)	m	L m	B m	H m	
100/80	250	0.35	0.50	0.55	
	225	0.35	0.50	0.50	
	180	0.35	0.50	0.45	
	135	0.35	0.50	0.40	
	90	0.35	0.50	0.40	



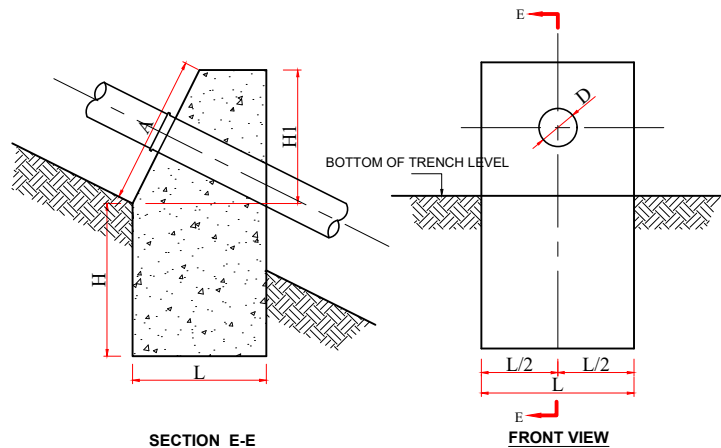
ANCHOR BLOCKS AT TEES, WYES AND BLANK FLANGES (TYPE TY)



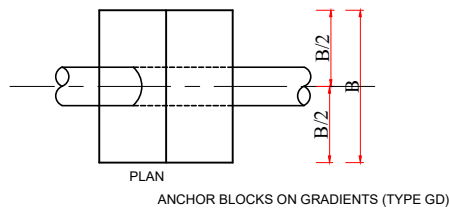
VERTICAL ANCHOR BLOCKS AT CRESTS (TYPE CV)

VERTICAL BENDS (TYPE CV)											
Normal Diameter	Test Pressure	45° Bend			22 1/2° Bend			11 1/4° Bend			
OD (mm)	m	L m	B m	H m	L m	B m	H m	L m	B m	H m	
40 - 80	250	1.40	0.70	0.80	1.20	0.70	0.80	1.20	0.70	0.80	
	225	1.20	0.70	0.80	1.20	0.70	0.80	1.20	0.70	0.80	
	180	1.20	0.70	0.80	1.20	0.70	0.80	1.20	0.70	0.80	
	135	1.20	0.70	0.80	1.20	0.70	0.80	1.20	0.70	0.80	
	90	1.20	0.70	0.80	1.20	0.70	0.80	1.20	0.70	0.80	
80 - 100	250	1.40	0.70	0.80	1.20	0.70	0.80	1.20	0.70	0.80	
	225	1.20	0.70	0.80	1.20	0.70	0.80	1.20	0.70	0.80	
	180	1.20	0.70	0.80	1.20	0.70	0.80	1.20	0.70	0.80	
	135	1.20	0.70	0.80	1.20	0.70	0.80	1.20	0.70	0.80	
	90	1.20	0.70	0.80	1.20	0.70	0.80	1.20	0.70	0.80	
100 - 150	250	1.70	1.10	0.80	1.30	0.90	0.80	1.00	0.70	0.60	
	225	1.50	1.10	0.80	1.20	0.80	0.70	1.00	0.70	0.60	
	180	1.50	1.10	0.70	1.10	0.80	0.70	1.00	0.70	0.60	
	135	1.40	0.90	0.70	1.00	0.70	0.60	1.00	0.70	0.60	
	90	1.20	0.80	0.60	0.90	0.70	0.50	1.00	0.70	0.60	

TEES (TYPE TY)											
Normal Diameter	Test Pressure					Normal Diameter	Test Pressure				
OD (mm)	m	L1 m	L2 m	B m	H m	OD (mm)	m	L1 m	L2 m	B m	H m
50 or less	250	0.40	0.20	0.40	0.30	50 - 80	250	0.50	0.25	0.50	0.40
	225	0.40	0.20	0.40	0.30		225	0.50	0.25	0.50	0.40
	180	0.40	0.20	0.40	0.30		180	0.50	0.25	0.50	0.40
	135	0.40	0.20	0.40	0.30		135	0.50	0.25	0.50	0.40
	90	0.40	0.20	0.40	0.30		90	0.50	0.25	0.50	0.40
80 - 100	250	0.60	0.30	0.60	0.50	100 - 150	250	0.70	0.40	0.60	0.50
	225	0.60	0.30	0.60	0.50		225	0.70	0.40	0.60	0.50
	180	0.60	0.30	0.60	0.50		180	0.70	0.40	0.60	0.50
	135	0.60	0.30	0.60	0.50		135	0.70	0.40	0.60	0.50
	90	0.60	0.30	0.60	0.50		90	0.70	0.40	0.60	0.50

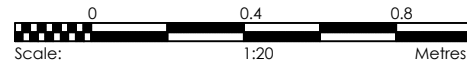


NOTE
1. ANCHOR BLOCK TO BE POSITIONED BEHIND COLLAR AS SHOWN



NOTES:

- Anchor blocks to be constructed from unreinforced concrete Class C15.
- Concrete to be cast against undisturbed ground, where disturbed the soil around anchor blocks is to be removed and filled with concrete before the main support pressure test.
- 11 1/4° bends to be used for bends >6° but less than 11 1/4°.
- Where accurate soil information is available anchor blocks may be individually designed.
- Shuttered surfaces to be class F1. Concrete to be cast against undisturbed soils so polythene shall be used to prevent ingress of foreign matter into the concrete.
- Anchor blocks shall be cast to leave all pipe joints free.
- Although flanged joints are shown, this drawing applies equally to spigot and socket jointed pipes.



CLEINT;



THE REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT
Directorate of Water Development

PROJECT

**KAWUMU PRESIDENTIAL MODEL
IRRIGATION SYSTEM AND
FACILITIES**

DRAWING TITLE

ANCHOR BLOCKS

SURVEYED BY

SCALE

1:20

DRAWN BY

N.D

DATE

MAY 2021

CHECKED BY

DRAWING NO.

APPROVED BY

SD 109