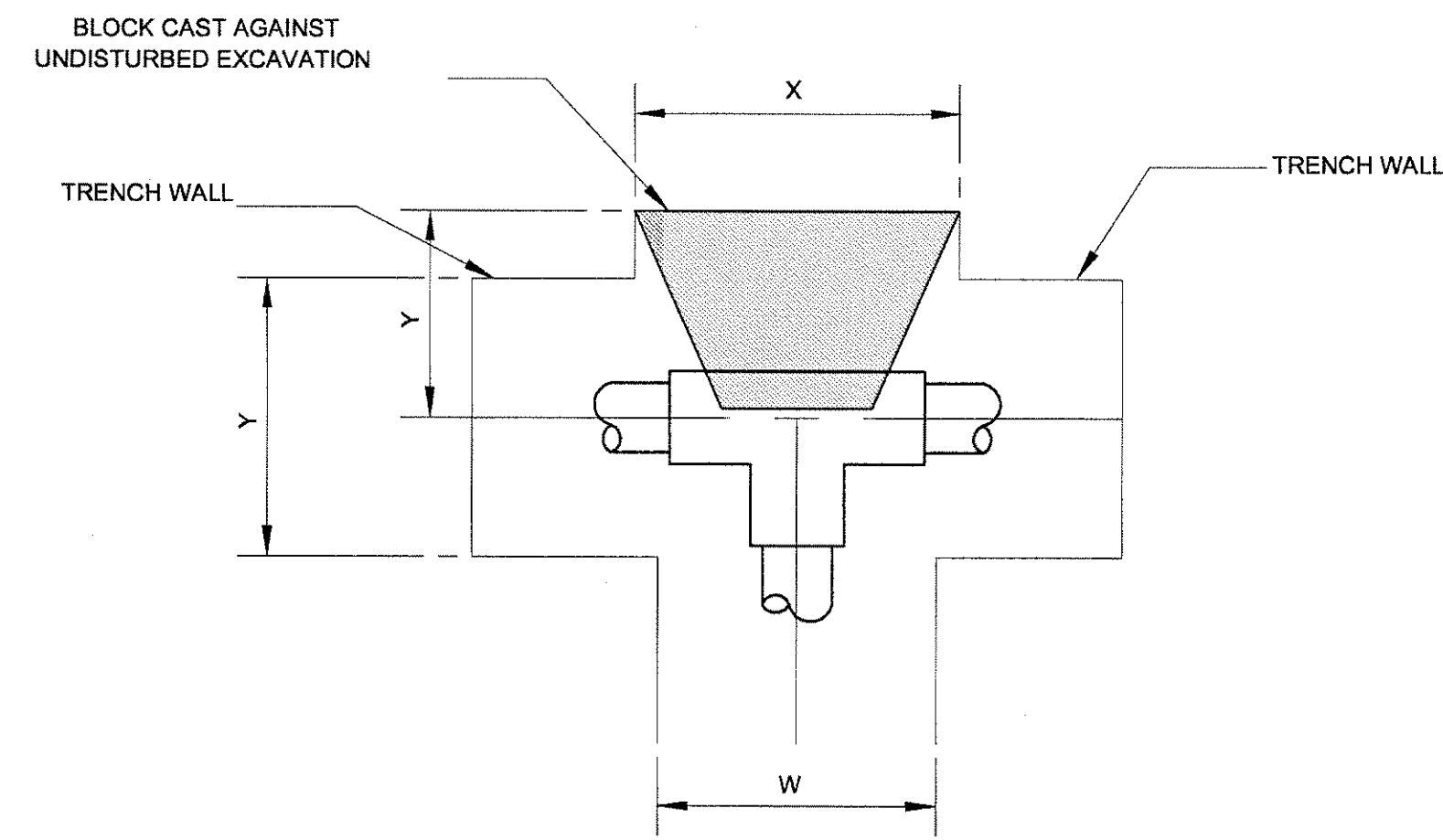


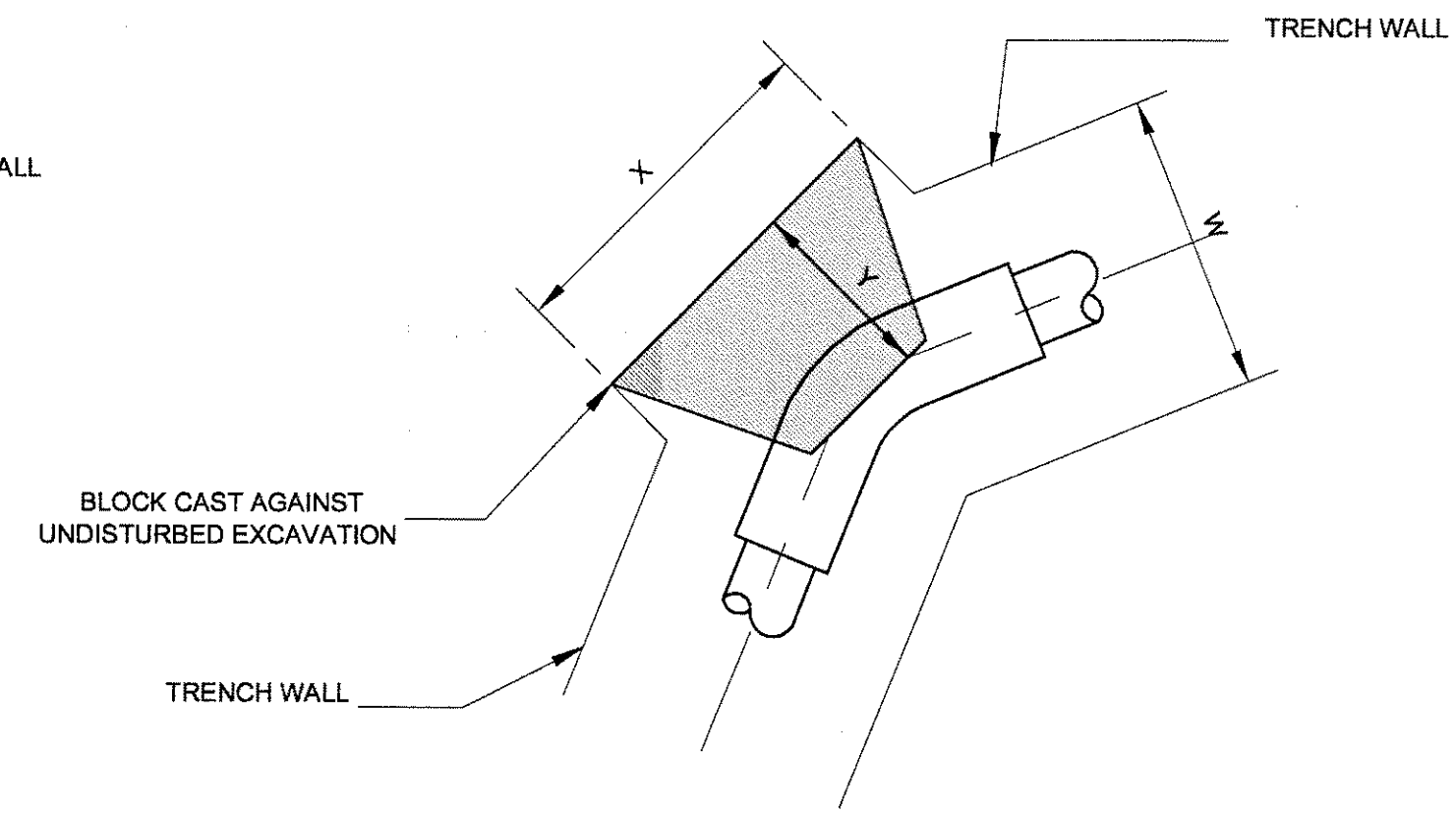
THRUST BLOCK FOR 45° BEND

NOMINAL DIAMETER ø (mm)	DIMENSIONS				
	D (mm)	Z (mm)	X (mm)	Y (mm)	VOL. (m³)
300	1 400	700	2 000	1 000	1,400
250	1 300	650	1 600	800	0,800
200	1 200	600	1 200	600	0,430
150	1 000	500	1 000	500	0,250
100	1 000	500	350	250	0,043
75	800	400	350	200	0,028



THRUST BLOCK FOR TEE

NOMINAL DIAMETER ø (mm)	DIMENSIONS				
	D (mm)	Z (mm)	X (mm)	Y (mm)	VOL. (m³)
300	1 400	700	2 700	1 300	2,550
250	1 300	650	2 150	1 100	1,500
200	1 200	600	1 600	800	0,770
150	1 000	500	1 300	650	0,420
100	1 000	500	500	300	0,075
75	800	400	450	300	0,054

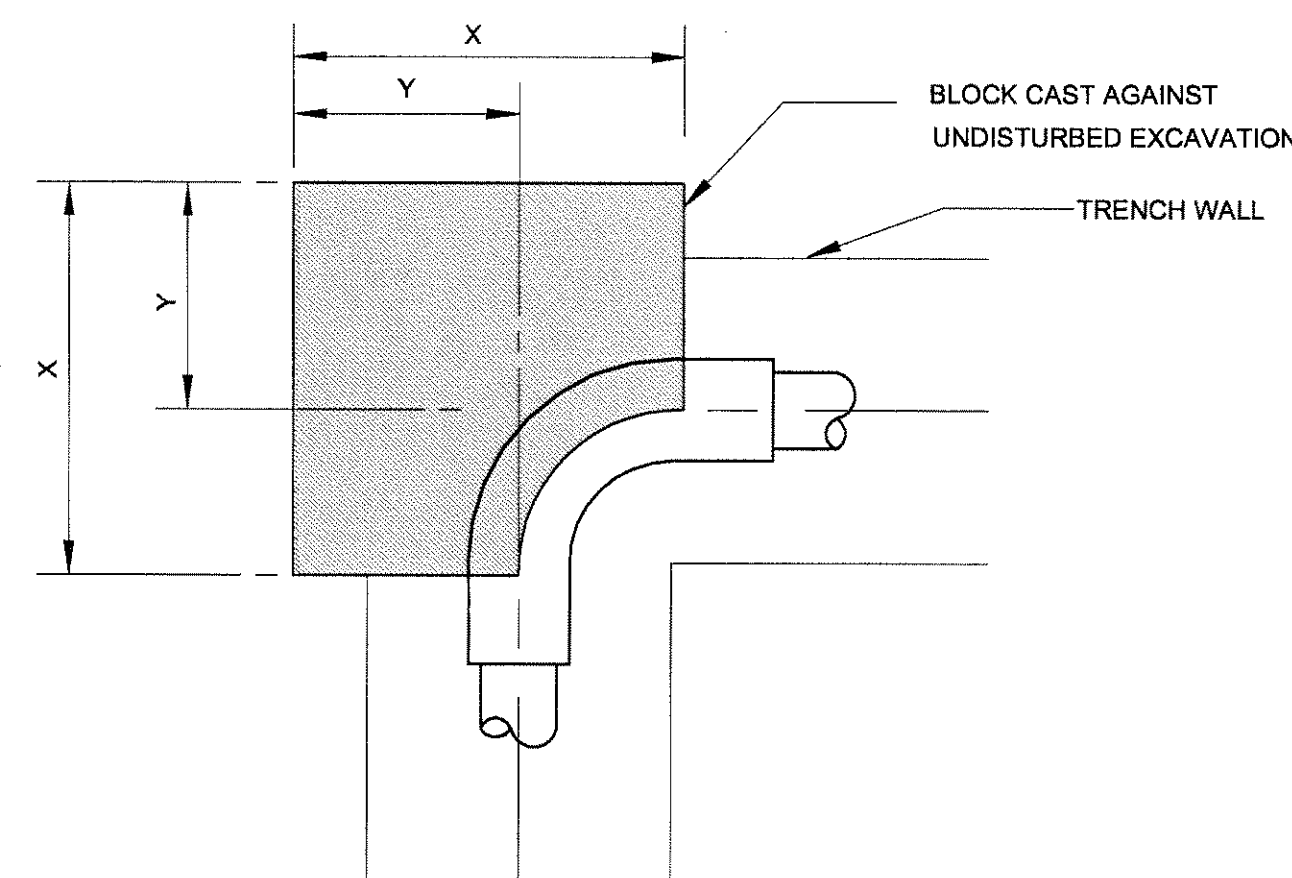


THRUST BLOCK FOR 22 1/2° BEND

NOMINAL DIAMETER ø (mm)	DIMENSIONS				
	D (mm)	Z (mm)	X (mm)	Y (mm)	VOL. (m³)
300	1 400	700	1 000	500	0,350
250	1 300	650	760	400	0,200
200	1 200	600	600	400	0,150
150	1 000	500	500	300	0,075
100	1 000	400	300	200	0,024
75	800	300	300	200	0,018

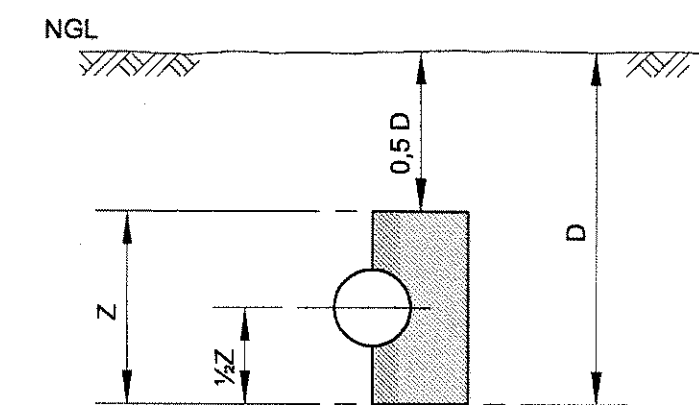
TYPICAL THRUST BLOCK DETAILS

N.T.S.



THRUST BLOCK FOR 90° BEND

NOMINAL DIAMETER ø (mm)	DIMENSIONS				
	D (mm)	Z (mm)	X (mm)	Y (mm)	VOL. (m³)
300	1 400	700	2 700	1 400	5,00
250	1 300	650	2 150	1 100	3,00
200	1 200	600	1 600	800	1,54
150	1 000	500	1 300	700	0,80
100	1 000	500	500	300	0,12
75	800	400	450	300	0,08



SECTION

NOTES :

- THIS TABLE WAS CALCULATED FOR THRUST BLOCKS IN SANDY SOILS.
- USE 15 MPa CONCRETE.
- HALF THE DEPTH OF THE THRUST BLOCK NEEDS TO BE BELOW THE PIPE AXIS.
- KEEP THE CONCRETE AWAY FROM THE COUPLINGS & THE PIPE JOINTS.
- THRUST BLOCKS FOR PIPE ø LARGER THAN 300mm & HIGHER TEST PRESSURES THAN 18 BAR NEEDS TO BE DESIGNED BY THE ENGINEER.
- THRUST BLOCKS AT PADDLE FLANGES NEEDS TO BE REINFORCED & DESIGNED BY THE ENGINEER.
- IN CASES OF SOFT CLAY & SILTY SANDS, THE ANCOR BLOKS NEED TO BE DESIGNED BY THE ENGINEER.

CONSULTING ENGINEERS
CAPEX DESIGN SECTION
SWISS HOUSE
7TH FLOOR

DESIGNED	N/A
DRAWN	B.M.KHUMALO	JANUARY 2013
CHECKED	F.CHAKANA	JANUARY 2013
F.CHAKANA	SIGNATURE	DATE
ECSA REG. No.	20110025	
CHECKED	F.CHAKANA	JANUARY 2013
APPROVED BY:	T.WANAKWANI	5/3/2013
	SIGNATURE	DATE
ECSA REG. No.	950458	

17 HARRISON STREET
MARSHALLTOWN
2107

TEL: (011) 688-1542
FAX: (011) 688-6604

STANDARD DETAIL
TYPICAL THRUST BLOCK DETAILS

SCALE	REV:	AMENDMENTS	APPROVED DATE:	DRAWING No.JW100-DET05-W01
				ISSUED FOR INFORMATION
				PROJECT No. [] DRAWING No. [] REV. []
				A3 SHEET 5 OF 12
				ORIGINAL PAGE SIZE
				FILE No.