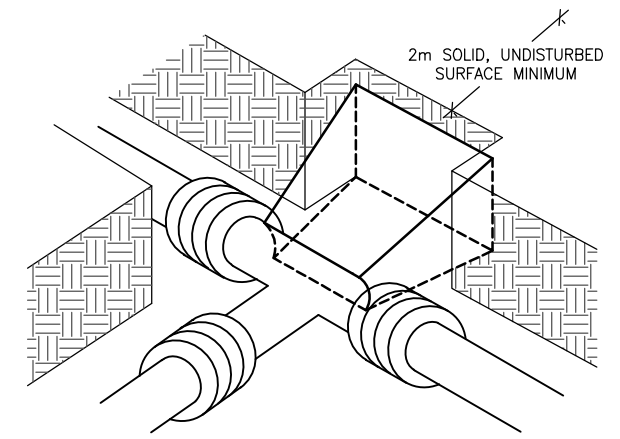


MINIMUM BEARING AREAS AT DEAD END:
 - 100Ø MAIN = 0.2m²
 - 150Ø MAIN = 0.4m²
 - 200Ø MAIN = 0.6m²

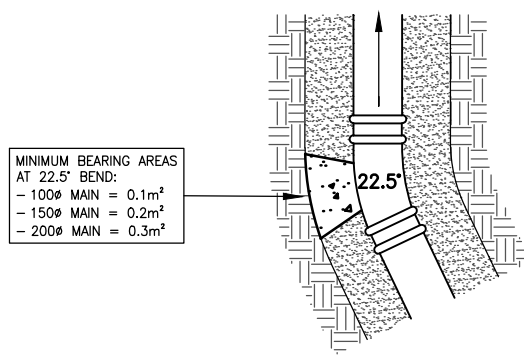
MINIMUM BEARING AREAS AT TEE:
 - 100Ø MAIN = 0.2m²
 - 150Ø MAIN = 0.4m²
 - 200Ø MAIN = 0.6m²



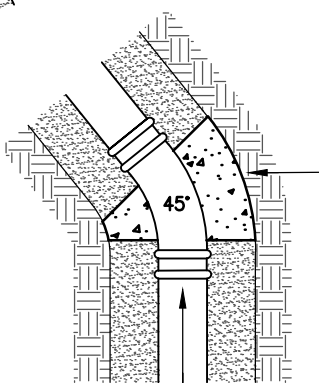
THRUST BLOCK BEHIND TEE ISOMETRIC VIEW
 NOT TO SCALE

NOTES:

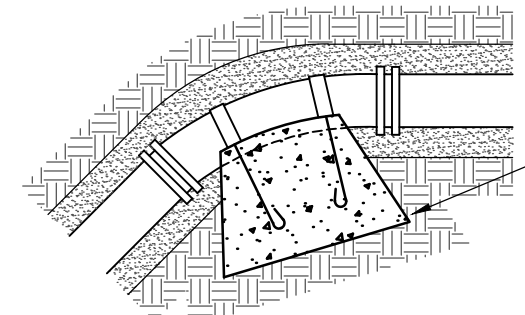
1. ALL CONCRETE TO BE MINIMUM 25MPa.
2. MINIMUM BEARING AREAS SHOWN REFER TO UNDISTURBED SOLID NATURAL GROUND. THE SOLID NATURAL GROUND MUST CONTINUE FOR A MINIMUM OF 2m FROM THE SUPPORT FACE OF THE THRUST BLOCK.
3. THRUST BLOCKS & ANCHORAGES FOR MAINS LARGER THAN 200Ø OR FOR UNSTABLE GROUND CONDITIONS, CUSTOM THRUST BLOCK DETAILS TO BE DESIGNED BY CERTIFIED ENGINEER.
4. DESIGN PRESSURE FOR THRUST BLOCKS MINIMUM 1.2MPa.



MINIMUM BEARING AREAS AT 22.5° BEND:
 - 100Ø MAIN = 0.1m²
 - 150Ø MAIN = 0.2m²
 - 200Ø MAIN = 0.3m²



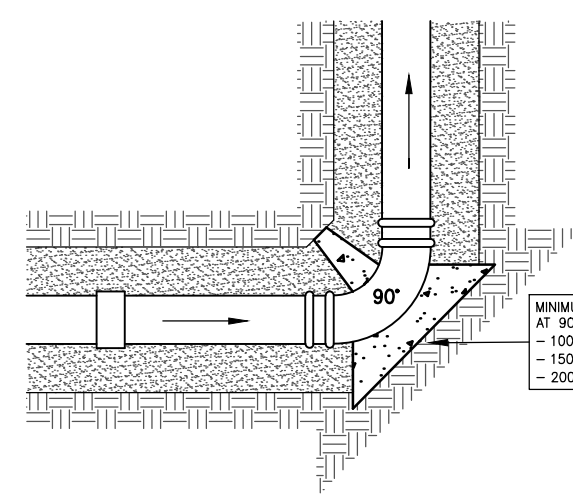
MINIMUM BEARING AREAS AT 45° BEND:
 - 100Ø MAIN = 0.15m²
 - 150Ø MAIN = 0.35m²
 - 200Ø MAIN = 0.5m²



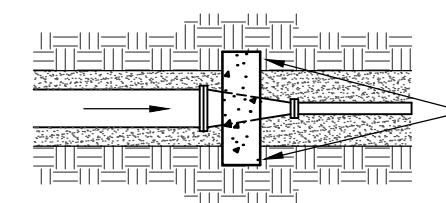
MASS OF ANCHOR TO BE 1.25 x THRUST DEVELOPED AT BEND AT 1.2MPa PRESSURE HEAD. MINIMUM CONCRETE VOLUME:

- 100Ø:
 - 11.25° = 0.3m³
 - 22.5° = 0.4m³
 - 45° = 0.7m³
- 150Ø:
 - 11.25° = 0.7m³
 - 22.5° = 0.7m³
 - 45° = 0.9m³
- 200Ø:
 - 11.25° = 0.7m³
 - 22.5° = 1.2m³
 - 45° = 0.2.3m³

ANCHORAGE OF VERTICAL BENDS
 NOT TO SCALE



MINIMUM BEARING AREAS AT 90° BEND:
 - 100Ø MAIN = 0.25m²
 - 150Ø MAIN = 0.50m²
 - 200Ø MAIN = 0.80m²



MINIMUM BEARING AREAS:
 - 150Ø TO 100Ø MAIN = 0.15m²
 - 200Ø TO 100Ø MAIN = 0.30m²
 - 250Ø TO 100Ø MAIN = 0.65m²
 - 250Ø TO 150Ø MAIN = 0.50m²
 - 250Ø TO 200Ø MAIN = 0.30m²

ANCHORAGE OF PIPE TAPERS
 NOT TO SCALE

TYPICAL THRUST BLOCK LOCATIONS
 NOT TO SCALE

CONSULTANT	REV	DESCRIPTION	INITIALS	DATE	SCALES (A1) 1:10 0 0.1 0.2 0.3 0.4 0.5 Metres 1:20 0 0.2 0.4 0.6 0.8 1.0 1:50 0 0.5 1.0 1.5 2.0 2.5 1:100 0 1 2 3 4 5 1:200 0 2 4 6 8 10 Metres 1:500 0 5 10 15 20 25 1:750 0 7.5 15 22.5 30 37.5 1:1000 0 10 20 30 40 50	SURVEYED	CHECKED	PROJECT BRC STANDARD WATER THRUST BLOCK & ANCHORAGE DETAILS DESCRIPTION DETAILS & NOTES DWG No. EN7905 SHEET No. 01 REV. C	
	A	ISSUED FOR APPROVAL	BH	08-07-98		DRAWN	MC		TECHNICAL SERVICES MANAGER
	B	DETAIL, NOTE & DRAFTING UPDATES	MC	21-09-23		DESIGN	-		DIRECTOR ENGINEERING SERVICES
CHECKED	APPROVED	C	DESIGN PRESSURE NOTE ADDED	MC	18-07-24	DATE	18-07-24	DATUM	AHD

