



CONC.	45°		30°		22° 30°		15°	
	I	J	I	J	I	J	I	J
150	150	150			150	150		
200	250	150			150	150		
250	300	200			200	200		
300	300	300			200	200		

BENDS								
CONC.	12° 30°		11° 15°		10°		7° 30° & 5°	
	I	J	I	J	I	J	I	J
150			100	100				
200			150	130				
250			150	150				
300			150	150				

NOTE

1. BLOCKING IS NOT PERMITTED ON NEW INSTALLATIONS.
2. PIPE GREATER THAN 300mm REQUIRES MECHANICAL RESTRAINTS WITH SHOP DRAWING SUBMISSION.
3. ASSUME BEARING AT 190kPa (CLEAN DRY SAND, FAIRLY DRY ETC.).
4. FOR POOR CONDITIONS (SOFT CLAY) LARGER BLOCKING MAY BE REQUIRED.
5. ALL CONCRETE TO BE 15MPa.
6. BASED ON WATER TEST PRESSURE OF 1000 kPa.
7. ALL DIMENSIONS ARE IN MILLIMETRES.



**PUBLIC WORKS
STANDARD DRAWING**

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APPROVED BY

A.P.

STD. DWG. NUMBER

1-5-5

DRAWN BY

AINLEY GROUP

SCALE

N.T.S.

**HORIZONTAL BLOCKING
5 DEGREE TO 45 DEGREE BENDS
FOR CONNECTION TO EXISTING WATERMAIN ONLY**