



CHART OF MINIMUM DIMENSIONS

PIPE SIZE D	90° BEND		45° BEND		22½° BEND		1¼° BEND		TEES		PLUGS	
	A	B	A	B	A	B	A	B	A	B	C	E
4"	15"	15"	12"	12"	12"	12"	12"	12"	12"	12"	10"	12"
6"	20"	20"	16"	16"	12"	12"	12"	12"	18"	18"	12"	18"
8"	30"	30"	20"	20"	15"	15"	12"	12"	24"	24"	12"	24"
12"	40"	40"	32"	32"	20"	20"	16"	16"	36"	36"	16"	36"
16"	64"	50"	42"	42"	30"	30"	20"	20"	48"	48"	20"	48"

- NOTES:
1. DIMENSIONS ARE BASED ON 200 PSI STATIC PRESSURE PLUS AWWA WATER HAMMER (FS=1.5).
 2. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.
 3. ALL CONCRETE SHALL BE 3,000 PSI @ 28 DAYS, READY-MIX ASTM C-94.
 4. DIMENSIONS ARE BASED ON 4,000 PSF SOIL BEARING. IF SOIL OF LESSER BEARING CAPACITY IS ENCOUNTERED, OBTAIN MODIFIED DIMENSIONS FROM THE ENGINEER.

**CITY OF
EMERSON**

WATER & SEWER DEPARTMENT

**THRUST
BLOCKING**

CONSTRUCTION STANDARD

DATE: 8/15/2008

REVISION DATE

REVISION DATE

REVISION DATE

REVISION DATE

STANDARD
DETAIL
NO.

5.04