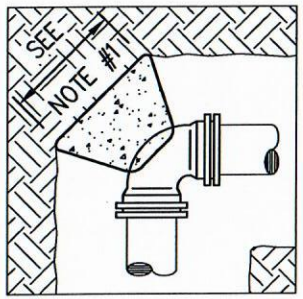
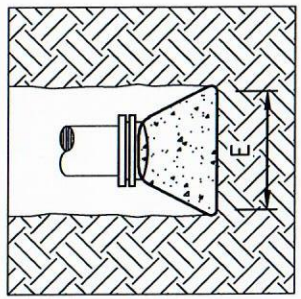
THRUST BLOCKING SCHEDULE

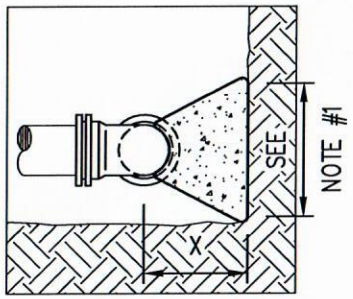
ASSUMPTIONS: LINE PRESSURE – 100 psi, ALLOWABLE BEARING – 4,000 psf, SAFETY FACTOR – 3

			11 1/4° BEND			22 1/2° BEND			45° BEND			90° BEND			TEE & PLUG		
PIPE DIAMETER	PIPE AREA Sq. In.	X	THRUST Lbs.	AREA Sq. Ft.	A	THRUST Lbs.	AREA Sq. Ft.	B	THRUST Lbs.	AREA Sq. Ft.	C	THRUST Lbs.	AREA Sq. Ft.	D	THRUST Lbs.	AREA Sq. Ft.	E
4"–12"	120.8	1.5'	2,367	1.2	1.1'	4,712	2.4	1.5'	9,243	4.6	2.2'	17,078	8.5	2.9'	12,076	6.0	2.5'

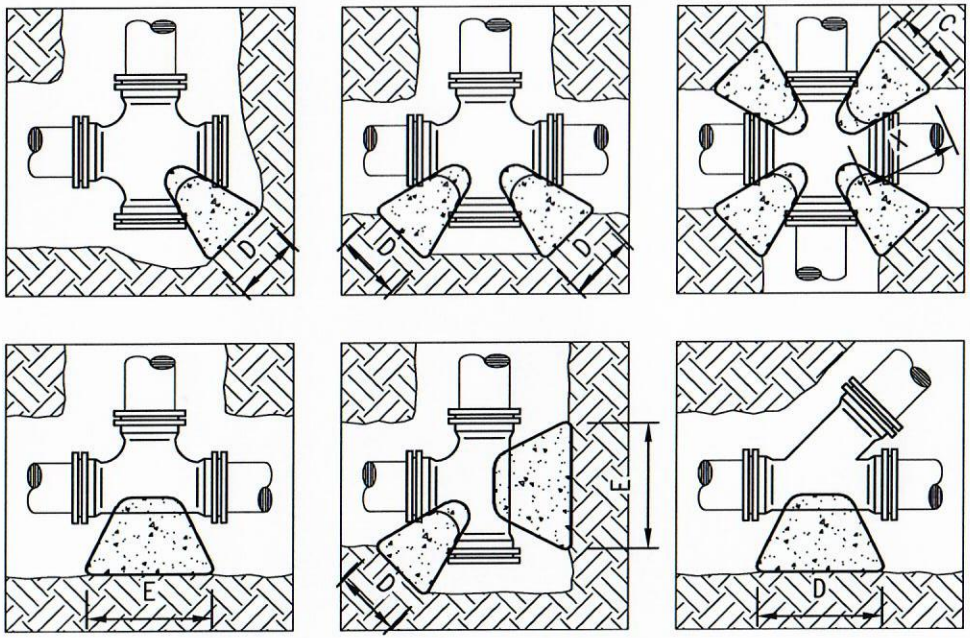


PLAN





SECTION



NOTES:

1. USE A, B, C, D OR E AS APPROPRIATE. REFER TO SCHEDULE.
2. ALL CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED TRENCH WALLS. DISTANCE (X) FROM PIPE FITTING TO TRENCH WALL SHALL BE AS SHOWN IN THE SCHEDULE OR A MIN. OF 12" AT THE THRUST BLOCK.
3. VERTICAL DIMENSION OF BEARING AREA AGAINST TRENCH WALL OF THRUST BLOCK SHALL BE EQUAL TO HORIZONTAL DIMENSION OF A, B, C, D, OR E AS APPROPRIATE. REFER TO SCHEDULE AND SECTION DRAWING.
4. ALL JOINTS SHALL BE TEMPORARILY JACKED WHEN POURING THRUST BLOCKS. ALL JOINTS OF FITTINGS SHALL BE KEPT FREE OF ANY CONCRETE.
5. ALL CONCRETE THRUST BLOCKS SHALL CONSIST OF A MIXTURE OF 1:2:6 OF CEMENT TO WASHED SAND TO GRAVEL AND SHALL BE CURED FOR A MIN. OF 24 HRS.
6. CONCRETE THRUST BLOCKS SHALL APPLY TO ALL PIPE FITTINGS.

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.

CITY OF MANOR, TEXAS

THRUST BLOCKING DETAIL

Scale: NTS

Approved: Trent T. Phelps 6/16/2020 Date

Drawn by: VDI

Detail No. W–11