

THRUST BLOCK SCHEDULE SQUARE FEET OF CONCRETE THRUST BLOCKING BEARING ON UNDISTURBED MATERIAL

REACTION TYPE		PIPE SIZE											
		4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"
PSIG	A	0.89	2.19	3.92	5.57	8.62	10.91	15.41	18.02	24.06	34.64	53.83	77.39
9	B	0.65	1.55	2.76	4.19	6.09	8.37	10.89	13.87	17.01	24.49	38.06	54.72
PRESSURE =	©	0.48	1.19	2.12	3.01	4.66	5.91	8.34	9.71	13.02	18.75	29.13	41.88
	(0.25	0.60	1.08	1.54	2.37	3.01	4.25	4.97	6.64	9.56	14.85	21.35
	(E)	0.13	0.30	0.54	0.77	1.19	1.52	2.12	2.51	3.33	4.79	7.45	10.71
TEST													
OTHER TEST		TEST PRESSURE TO BE 100 PSI MIN. AT HIGH END OF THE TEST											

SECTION. SQUARE FEET OF CONCRETE THRUST BLOCKING FOR OTHER

TEST PRESSURES IS DIRECTLY PROPORTIONAL TO THE ABOVE TABLE, FOR

INSTANCE, AT A 200 PSI TEST PRESSURE, THE REQUIRED THRUST BLOCK

SQUARE FOOTAGE IS DOUBLE WHAT IS INDICATED IN THE ABOVE TABLE.

NOTES:

PRESSURES

REACTIONS

FOR THE

ABOVE

- 1. POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL. NO JOINTS SHALL BE COVERED WITH CONCRETE.
- 2. ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.
- 3. PLACE CONCRETE PATIO BLOCKS IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCK.
- 4. REQUIREMENTS OF THE ABOVE TABLE PRESUME MINIMUM SOIL BEARING OF 1 TON PER SQUARE FOOT, AND MAY BE VARIED BY THE ENGINEER TO MEET OTHER CONDITIONS ENCOUNTERED.
- 5. GRIP-RING RETAINER GLANDS ARE REQUIRED FOR ALL MECHANICAL JOINTS. THESE GLANDS DO NOT REDUCE THE REQUIREMENTS FOR THRUST RESTRAINT.
- 6. ALL FITTINGS SHALL BE WRAPPED IN POLYETHYLENE OR BUILDING PAPER PRIOR TO INSTALLATION OF CONCRETE RESTRAINT.
- 7. THREADED ROD SHALL BE ANSI A242 FY50 PIPE RESTRAINT NUTS TO MATCH AWWA C111. THREADED RODS AND NUTS TO BE FIELD COATED WITH BITUMINOUS PAINT.
- 8. THRUST RESTRAINT IS REQUIRED FOR ALL TEES, BENDS, REDUCERS, CAPS, PLUGS, OR CROSSES,
- 9. INSTALL LIFT HOOKS INTO THRUST BLOCKS AT END CAPS AND PLUGS.
- 10. THE USE OF PRECAST THRUST BLOCKS SHALL BE CONSIDERED ON A CASE—BY—CASE BASIS. REQUIRED THRUST BLOCK SIZE MUST BE APPROVED BY THE SEWER SUPERINTENDENT.

DRAWN BY:	D.K.P	
CHECKED B	Y: R.L	
APPROVED	BY: R.L	
SCALE:	AS SHOWN	l
DATE:	NOV. 2003	3

TOWN OF MILFORD, NEW HAMPSHIRE DESIGN SPECIFICATIONS

STANDARD THRUST BLOCK DETAILS AND NOTES

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REV.	DESCRIPTION	DA	TE
FIGL	JRE: W-	11	В