PIPE RESTRAINING LENGTHS
EBBA IRON SALES, INC.
MEGA LUG

PIPE SIZE	FITTING	SOIL TYPE	BEDDING	TEST PRES	DOB	SF	RESTRAINED LENGTH
8" DIP							
	11¼ BEND	CL	SOIL	150 PSI	3.5FT	2:1	3 FEET
	22½ BEND	CL	SOIL	150 PSI	3.5FT	2:1	6 FEET
	45 HORIZ BEND	CL	SOIL	150 PSI	3.5FT	2:1	12 FEET
	45 VERT BEND	CL	SOIL	150 PSI	3.5FT	2:1	24 UPPER/12 LOWER
	90 BEND	CL	SOIL	150 PSI	3.5FT	2:1	30 FEET
	CAP	CL	SOIL	150 PSI	3.5FT	2:1	41 FEET
	TEE	NO JOINT WITHIN 5 FT OF TEE EA SIDE ON MAIN					
	8 X 6	CL	SOIL	150 PSI	3.5FT	2:1	13 FEET
10" DIP							
	11¼ BEND	CL	SOIL	150 PSI	3.5FT	2:1	3 FEET
	22½ BEND	CL	SOIL	150 PSI	3.5FT	2:1	7 FEET
	45 HORIZ BEND	CL	SOIL	150 PSI	3.5FT	2:1	14 FEET
	45 VERT BEND	CL	SOIL	150 PSI	3.5FT	2:1	27 UPPER/12 LOWER
	90 BEND	CL	SOIL	150 PSI	3.5FT	2:1	33 FEET
	CAP	CL	SOIL	150 PSI	3.5FT	2:1	46 FEET
	TEE	NO JOINT WITHIN 5 FT OF TEE EA SIDE ON MAIN					
	10 X 8	CL	SOIL	150 PSI	3.5FT	2:1	21 FEET BRANCH SIDE
	10 X 6	CL	SOIL	150 PSI	3.5FT	2:1	7 FEET BRANCH SIDE
12" DIP							
	11¼ BEND	CL	SOIL	150 PSI	3.5FT	2:1	4 FEET
	22½ BEND	CL	SOIL	150 PSI	3.5FT	2:1	8 FEET
	45 HORIZ BEND	CL	SOIL	150 PSI	3.5FT	2:1	16 FEET
	45 VERT BEND	CL	SOIL	150 PSI	3.5FT	2:1	35 UPPER/19 LOWER
	90 BEND	CL	SOIL	150 PSI	3.5FT	2:1	39 FEET
	CAP	CL	SOIL	150 PSI	3.5FT	2:1	58 FEET
	TEE	NO JOINT WITHIN 5 FT OF TEE EA SIDE ON MAIN					
	12 X 8	CL	SOIL	150 PSI	3.5FT	2:1	21 FEET BRANCH SIDE
	12 X 6	CL	SOIL	150 PSI	3.5FT	2:1	5 FEET BRANCH SIDE

DOB= DEPTH OF BURY (DEEPER IS MORE CONSERVATIVE)
SF= SAFETY FACTOR
BEDDING= LOOSE SOIL BEDDING (4" MAX) WITH SOIL BACKFILL
SOIL TYPE = CL IS CLAY LOAM, GC IS CLAYEY GRAVELS, SHALES. THESE ARE TYPICAL MIDDLETOWN SOILS.
FIELD LOK GASKETS ARE PERMITTED FOR USE IN THE RETRAINED ZONE. APPLY RED FIELD LOK TAPE TO THE JOINT.

TOWN OF MIDDLETOWN

APPROVED: 02/11/02
DATE

STANDARD DETAIL

PIPE RESTRAINING CHART FOR DIP

REVISIONS:

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