## RESTRAINED JOINT LENGTHS DETAIL

	Restrained Joint Distance on Both Sides of Fitting (ft.) for Various Pressure Pipe Diameter Sizes			
DUCTILE IRON BEND FITTING	6"	8″	10″	12"
11.25 DEGREE BEND (HORIZONTAL)	6	8	9	11
22.50 DEGREE BEND (HORIZONTAL)	12	15	18	21
45 DEGREE BEND (HORIZONTAL)	24	31	37	43
45 DEGREE BEND (VERTICAL UP BEND)	15	19	23	27
45 DEGREE BEND (VERTICAL DOWN BEND)	43	56	67	79
90 DEGREE BEND (HORIZONTAL)	57	74	88	103

DUCTILE IRON FITTING	RESTRAINED JOINT DISTANCE (FT.)	MEASURED ALONG
6"x6" tee	97	branch
6"x8" tee	95	branch
6"x10" tee	92	branch
6"x12" tee	90	branch
8"x8" tee or wye	129	branch
8"x10" tee	127	branch
8"x12" tee	125	branch
10"x10" tee	155	branch
10"x12" tee	154	branch
12"x12" tee	184	branch
6"x8" reducer	57	larger pipe
6"x10" reducer	100	larger pipe
6"x12" reducer	139	larger pipe
8"x10" reducer	55	larger pipe
8"x12" reducer	101	larger pipe
10"x12" reducer	56	larger pipe

## **NOTES:**

1. This contractor shall use the two tables above to determine the restrained joint lengths for all proposed pressure piping.

PROJECT REFERENCE NO. SHEET NO.

R-5020B

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## UTILITY CONSTRUCTION

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