



PVC LINE

PIPE DIA.	BEND ANGLE					
	11 1/4°		22 1/2°		45°	
	L _u	L _l	L _u	L _l	L _u	L _l
4	4	1	8	2	17	3
6	6	1	11	2	23	4
8	8	2	15	3	30	6
10	9	2	18	4	36	7
12	11	2	21	4	43	8
16	10	3	21	5	42	10
20	13	3	25	6	51	12
24	15	4	29	7	60	15

PVC DESIGN:
 SOIL TYPE: SM
 TRENCH TYPE: 3
 COVER: 3' ≤ 12" DIA.
 4' > 12" DIA.
 TEST PRESSURE: 150 PSI

POLYETHYLENE WRAPPED DUCTILE IRON LINE

PIPE DIA.	BEND ANGLE					
	11 1/4°		22 1/2°		45°	
	L _u	L _l	L _u	L _l	L _u	L _l
4	6	1	12	2	24	4
6	9	2	17	3	34	5
8	11	2	22	3	45	7
10	13	2	26	4	53	8
12	15	3	30	5	63	9
16	19	3	39	6	80	12
20	23	4	47	7	97	15
24	27	4	55	8	113	17

PE WRAPPED DIP:
 SOIL TYPE: SM
 TRENCH TYPE: 3
 COVER: 3'
 TEST PRESSURE: 150 PSI

NOTES:

1. LENGTH OF RESTRAINT SHOWN IS IN FEET. PIPE DIA. IS IN INCHES
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
3. INFORMATION IN THE TABLES ABOVE ARE BASED ON THE DESIGN INFORMATION SHOWN. THE ENGINEER SHALL PROVIDE AMENDED RESTRAINT LENGTHS IF SITE CONDITIONS DIFFER

VERTICAL BEND RESTRAINT

STANDARD
 CONSTRUCTION
 DETAILS



CITY OF
savannah
 WATER RESOURCES AND PUBLIC WORKS BUREAU
 Planning & Engineering

SCALE: N.T.S.
 DATED: JAN 2017
 PLATE NUMBER:
 W29