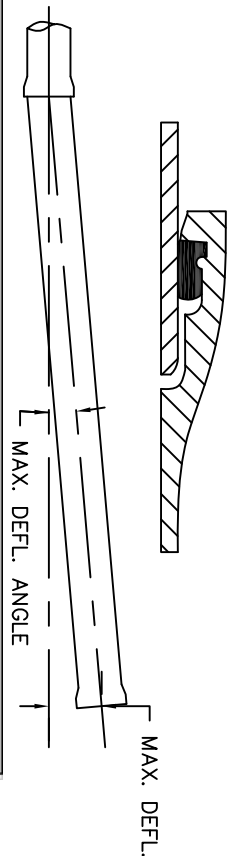
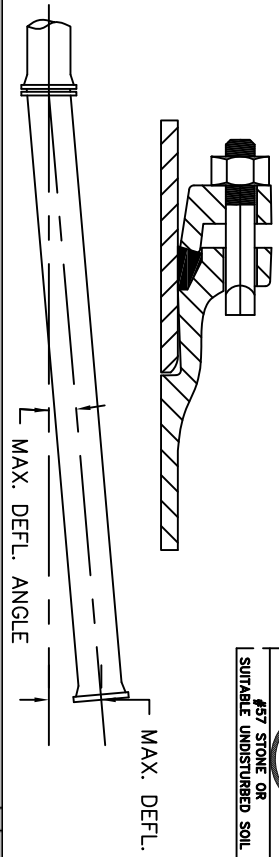
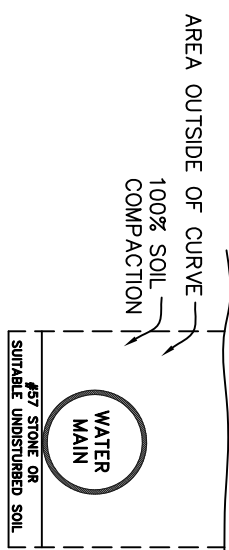


WATER MAIN INSTALLATION TRENCH



Size in.	Deflection Angle deg.-min.	Max Defl. in.	18 ft.		20 ft.		Deflection Angle deg.-min.	Max Defl. in.	Approx. Radius ft.	Max. Defl. in.	Approx. Radius ft.	Deflection Angle deg.-min.	Max Defl. in.	Approx. Radius ft.	
			Approx. Radius ft.	Max. Defl. in.	Approx. Radius ft.	Max. Defl. in.									
3	8-18	31	125	35	140	5	19	205	21	230	5	19	205	21	230
4	8-18	31	125	35	140	5	19	205	21	230	5	19	205	21	230
6	7-07	27	145	30	160	5	19	205	21	230	5	19	205	21	230
8	5-21	20	195	22	220	5	19	205	21	230	5	19	205	21	230
10	5-21	20	195	22	220	5	19	205	21	230	5	19	205	21	230
12	5-21	20	195	22	220	5	19	205	21	230	5	19	205	21	230
14*	3-35	13.5	285	15	320	3	11	340	12	380	3	11	340	12	380
16*	3-35	13.5	285	15	320	3	11	340	12	380	3	11	340	12	380
18*	3-00	11	340	12	380	3	11	340	12	380	3	11	340	12	380
20*	3-00	11	340	12	380	3	11	340	12	380	3	11	340	12	380
24*	2-23	9	450	10	500	3	11	340	12	380	3	11	340	12	380
30*	2-23	9	450	10	500	3	11	340	12	380	3	11	340	12	380
36*	2-05	8	500	9	550	3	11	340	12	380	3	11	340	12	380
42*	2-00	7.5	510	8	570	2	7.5	510	8	570	2	7.5	510	8	570
48*	2-00	7.5	510	8	570	2	7.5	510	8	570	2	7.5	510	8	570

\* FOR 14" AND LARGER PUSH ON JOINTS, MAX DEFLECTION ANGLE MAY BE LARGER THAN SHOWN ABOVE. CONSULT THE MANUFACTURER

CITY OF HIGH POINT  
NORTH CAROLINA  
ENGINEERING SERVICES DEPARTMENT  
APPROVED FEBRUARY 4, 2007  
DIRECTOR

ISSUED 02-01-07	REVISIONS

STANDARD DRAWING FOR  
MAXIMUM JOINT DEFLECTION  
FOR DUCTILE IRON WATER LINE

DEFLECT.DWG  
231.00  
SHEET 1 OF 1