

Water Improvements (Non-Participating)	Quantity	UM
Measured Quantity Bid Items (635803)		
Pipe, WL 2"	94	If
Pipe, WL 8"	11,054	If
Pipe, WL 12"	2,917	If
Pipe, WL 8" DICL	1,580	If
Pipe, WL 12" DICL	171	If
Pipe, WL 20" DICL	40	If
Pipe, DICL RJ 8"	125	If
Pipe, DICL RJ 12"	59	If
Valve Assembly, Gate 8"	62	ea
Valve Assembly, Butterfly 12"	9	ea
Valve Assembly, Special Anchored 8"	1	ea
Valve Assembly, Anchored 8"	6	ea
Service Outlet Assembly, 2"	11	ea
Valve Assembly, Blowoff 2"	21	ea
Fire Hydrant Assembly	24	ea
Fire Hydrant Removal	23	ea
Service Line, Long 1"	75	ea
Service Line, Long 2"	1	ea
Service Line, Short 1"	55	ea
Pipe, Cut and Cap 8" Existing	56	ea
Pipe, Cut and Cap 12" Existing	3	ea
Temporary Asphalt Pvmf (6")(WL Patch)	1,960	sf
Concrete Encasement 8", Reinforced	40	if
Pipe Abandoned In Place	15,123	if

Sanitary Sewer Improvements	Quantity	UM
Lump Sum Bid Items (624100)		
Pipe, SS 8"	2268	If
Pipe, SS 10"	2205	If
Pipe, SS 12"	750	If
Pipe, SS 15"	88	If
Service Connection Replaced	13	ea
MH, Standard SS (4')	28	ea
MH, Standard SS (5')	1	ea
MH, Outside Drop SS (4')	3	ea
MH, Outside Drop SS (5')	1	ea
MH, Standard SS (4') (Lined)	1	ea
MH, Standard SS (5') (Lined)	1	ea
MH, Connect to Existing	1	ea
MH, Adjusted w/New Ring & Cover	1	ea
MH Abandoned	13	ea
MH Removed	21	ea
Concrete Encasement	40	if
Pipe Abandoned In Place	3168	if
Pipe Removed (0" - 12")	2337	if
Pipe Removed (15" - 30")	90	if
Pipe, Plug 8" Existing	27	ea
Fill, Flowable	1918	if
Fill, Sand (Flushed & Vibrated)	3393	if
Temporary Asphalt Pvmf (6")(SS Patch)	537	sf

2" Service Outlet Assembly					
Line #	Station	Top of Pipe	Northing	Easting	Description
WL 43	0+31.96	1357.25	93987.96	61374.48	2" Service Outlet Assembly (fc. E)
WL 24	0+10.34	1362.35	93997.03	60285.85	2" Service Outlet Assembly (E)
WL 36	0+03.64	1383.00	94046.51	64256.98	2" Service Outlet Assembly (fc. E)
WL 26	0+04.47	1372.13	94003.61	61004.11	2" Service Outlet Assembly (fc. E)
WL 38	0+06.55	1390.5	94067.56	64921.68	2" Service Outlet Assembly (fc. E)
WL 34	0+87.55	1386.53	94173.6	63455.83	2" Service Outlet Assembly (fc. E)
WL 4	2+06.22	1299.75	94021.7	55581.7	2" Service Outlet Assembly (fc. E)
WL 2	2+08.78	1299.32	94015.49	54842.09	2" Service Outlet Assembly (fc. E)
WL 32	0+69.07	1392.84	94143.02	62884.34	2" Service Outlet Assembly (fc. W)
WL 22	0+90.44	1342.88	94101.89	59604.53	2" Service Outlet Assembly (fc. W)
WL 19	2+11.99	1329.76	94067.51	58945.07	2" Service Outlet Assembly (fc. W)
Total	11 Each				

2" Blowoff Assembly					
Line #	Station	Top of Pipe	Northing	Easting	Description
WL 29	0+77.31	1375.60	94138.37	62274.54	2" Blowoff Assembly
WL 39	1+15.65	1358.90	94145.41	61362.87	2" Blowoff Assembly
WL 28	4+57.58	1352.26	94359.21	61763.04	2" Blowoff Assembly (E)
WL 32	0+69.07	1393.09	94143.02	62884.34	2" Blowoff Assembly (N)
WL 34	0+87.55	1386.78	94173.6	63455.83	2" Blowoff Assembly (N)
WL 14	1+08.41	1307.49	94073.21	57940.91	2" Blowoff Assembly (N)
WL 27	1+39.93	1373.00	94160.71	61051.05	2" Blowoff Assembly (N)
WL 24	1+51.05	1365.70	94137.73	60283.69	2" Blowoff Assembly (N)
WL 23	3+38.44	1353.55	94211.89	59919.42	2" Blowoff Assembly (N)
WL 36	0+03.64	1383.25	94046.51	64256.98	2" Blowoff Assembly (S)
WL 37	0+03.99	1386.10	94059.75	64637.26	2" Blowoff Assembly (S)
WL 12	0+04.19	1303.91	93860.61	57281.2	2" Blowoff Assembly (S)
WL 26	0+04.47	1372.38	94003.61	61004.11	2" Blowoff Assembly (S)
WL 23	0+05.00	1357.30	93878.49	59924.33	2" Blowoff Assembly (S)
WL 38	0+06.55	1390.75	94067.56	64921.68	2" Blowoff Assembly (S)
WL 24	0+10.34	1362.63	93997.03	60285.85	2" Blowoff Assembly (S)
WL 10	0+10.36	1300.00	93866.67	56666.41	2" Blowoff Assembly (S)
WL 16	0+11.01	1314.05	93925.11	58275.06	2" Blowoff Assembly (S)
WL 25	0+12.33	1368.50	93935.68	60644.73	2" Blowoff Assembly (S)
WL 43	0+31.96	1357.50	93987.96	61374.48	2" Blowoff Assembly (S)
WL 4	2+06.22	1300.00	94021.7	55581.7	2" Blowoff Ass'y (N)
Total	21 Each				

Water Valve Box to be Adjusted						
Line #	Station	Top of Pipe	Northing	Easting	Description	Top Box Elev.
WL1	1+83.85	1296.52	93882.91	54844.09	8" MJ Gate Valve (N)	1302.57
WL1	26+27.80	1300.32	93952.29	57279.96	8" MJ Gate Valve (N)	1306.46
WL1	26+27.80	1300.32	93952.29	57279.96	8" MJ Gate Valve (E)	1306.45
WL1	26+27.80	1300.32	93952.29	57279.96	8" MJ Gate Valve (S)	1306.44
WL1	29+63.34	1304.45	93960.35	57615.4	8" MJ Gate Valve (N)	1308.03
WL1	29+63.34	1304.45	93960.35	57615.4	8" MJ Gate Valve (S)	1307.89
WL1	32+90.40	1307.13	93964.81	57942.39	8" MJ Gate Valve (N)	1310.93
WL1	32+90.40	1307.13	93964.81	57942.39	8" MJ Gate Valve (E)	1310.9
WL1	33+46.16	1308.03	93954.21	57988.28	8" MJ Gate Valve (S)	1311.5
WL1	49+55.98	1341.16	93997.91	59597.02	8" MJ Gate Valve (S)	1344.59
WL1	49+78.39	1342.07	94011.46	59605.89	8" MJ Gate Valve (N)	1345.38
WL1	52+94.84	1351.68	94017.82	59922.28	8" MJ Gate Valve (E)	1357.85
WL1	52+94.84	1351.85	94017.82	59922.28	12" MJ Butterfly Valve (N)	1357.79
WL1	52+94.84	1351.85	94017.82	59922.28	12" MJ Butterfly Valve (S)	1357.77
WL1	73+43.95	1361.61	94034.51	61945.21	8" Anchored Gate Valve (S)	1366.55
WL1	73+49.79	1361.61	94034.63	61951.04	8" Anchored Gate Valve (S)	1366.3
WL1	96+59.66	1376.31	94102.97	64256.04	8" MJ Gate Valve (N)	1384.68
WL1	96+59.66	1376.31	94102.97	64256.04	8" MJ Gate Valve (S)	1384.53
WL1	100+40.09	1381.79	94111.02	64636.38	12" MJ Butterfly Valve (E)	1388.26
WL1	100+40.09	1381.62	94111.02	64636.38	8" MJ Gate Valve (N)	1388.3
WL1	100+40.09	1381.62	94111.02	64636.38	8" MJ Gate Valve (S)	1388.15
WL1	103+24.65	1386.77	94117.04	64920.88	8" MJ Gate Valve (S)	1393.12
Total	22 Each					

Fire Hydrants Assembly	
Line #	Station
1	9+05.38
1	13+58.95
1	20+37.36
1	40+31.84
1	68+34.23
1	73+24.84
2	1+99.69
3	0+65.06
3	1+73.21
12	0+43.89
13	0+21.34
13	1+98.88
Total	12 Each

Fire Hydrants Assembly	
Line #	Station
14	0+78.48
19	1+81.82
22	0+87.44
23	0+87.44
25	1+75.65
31	0+79.11
33	0+66.11
34	0+54.26
35	0+80.09
36	1+30.74
37	0+33.27
42	0+03.50
Total	12 Each

8" MJ Gate Valve						
Station	Top of Pipe	Northing	Easting	Description	Top of Valve Box Elev.	
WL 1	0+00.00	1292.02	93884.76	54660.25	8" MJ Gate Valve (N)	1302.46
WL 1	0+00.00	1292.02	93884.76	54660.25	8" MJ Gate Valve (E)	1302.43
WL 1	1+83.85	1296.52	93882.91	54844.09	8" MJ Gate Valve (N)	1302.57
WL 1	1+83.85	1296.52	93882.91	54844.09	8" MJ Gate Valves (S)	1302.48
WL 1	5+58.58	1298.86	93869.78	55214.57	8" MJ Gate Valve (N)	1302.46
WL 1	5+58.58	1298.86	93869.78	55214.57	8" MJ Gate Valve (E)	1302.38
WL 1	5+58.58	1298.86	93869.78	55214.57	8" MJ Gate Valve (S)	1302.65
WL 1	9+28.49	1298.61	93877.83	55584.4	8" MJ Gate Valve (N)	1302.54
WL 1	9+28.49	1298.61	93877.83	55584.4	8" MJ Gate Valve (S)	1302.64
WL 1	12+98.09	1299.56	93885.86	55953.91	8" MJ Gate Valve (N)	1302.64
WL 1	12+98.09	1299.56	93885.86	55953.91	8" MJ Gate Valve (E)	1302.69
WL 1	13+39.24	1299.56	93886.76	55995.05	8" MJ Gate Valve (S)	1302.43
WL 1	16+32.27	1299.61	93893.13	56288.01	8" MJ Gate Valve (N)	1303.07
WL 1	16+32.27	1299.61	93893.13	56288.01	8" MJ Gate Valve (S)	1303.47
WL 1	19+60.53	1299.71	93906.4	56615.93	8" MJ Gate Valve (N)	1303.40
WL 1	19+60.53	1299.71	93906.4	56615.93	8" MJ Gate Valve (E)	1303.48
WL 1	20+10.59	1299.84	93909.65	56665.88	8" MJ Gate Valve (S)	1303.87
WL 1	22+92.88	1300.17	93927.94	56947.58	8" MJ Gate Valve (N)	1304.52
WL 1	22+92.88	1300.17	93927.94	56947.58	8" MJ Gate Valve (S)	1305.03
WL 1	26+27.80	1300.32	93952.29	57279.96	8" MJ Gate Valve (N)	1306.46
WL 1	26+27.80	1300.32	93952.29	57279.96	8" MJ Gate Valve (E)	1306.45
WL 1	26+27.80	1300.32	93952.29	57279.96	8" MJ Gate Valve (S)	1306.44
WL 1	29+63.34	1304.45	93960.35	57615.4	8" MJ Gate Valve (N)	1308.03
WL 1	29+63.34	1304.45	93960.35	57615.4	8" MJ Gate Valve (S)	1307.89
WL 1	32+90.40	1307.13	93964.81	57942.39	8" MJ Gate Valve (N)	1310.93
WL 1	32+90.40	1307.13	93964.81	57942.39	8" MJ Gate Valve (E)	1310.90
WL 1	33+46.16	1308.03	93954.21	57988.28	8" MJ Gate Valve (S)	1311.50
WL 1	36+32.65	1312.08	93951.19	58274.74	8" MJ Gate Valve (N)	1307.12
WL 1	36+32.65	1312.08	93951.19	58274.74	8" MJ Gate Valve (S)	1307.28
WL 1	39+61.56	1320.9	93959.1	58603.56	8" MJ Gate Valve (N)	1325.81
WL 1	39+61.56	1320.9	93959.1	58603.56	8" MJ Gate Valve (E)	1326.32
WL 1	40+05.88	1323.28	93960.16	58647.87	8" MJ Gate Valve (S)	1327.40
WL 1	42+95.45	1328.81	93967.12	58937.36	8" MJ Gate Valve (N)	1332.29
WL 1	42+95.45	1328.81	93967.12	58937.36	8" MJ Gate Valve (S)	1332.41
WL 1	46+22.57	1334.34	93976.1	59264.33	8" MJ Gate Valve (N)	1337.76
WL 1	46+22.57	1334.34	93976.1	59264.33	8" MJ Gate Valve (E)	1337.79
WL 1	46+22.57	1334.34	93976.1	59264.33	8" MJ Gate Valve (S)	1338.02
WL 1	49+55.98	1341.16	93997.91	59597.02	8" MJ Gate Valve (S)	1344.59
WL 1	49+78.39	1342.07	94011.46	59605.89	8" MJ Gate Valve (N)	1345.38
WL 1	52+94.84	1351.68	94017.82	59922.28	8" MJ Gate Valve (E)	1357.85
WL 1	56+63.65	1362.63	94002.03	60285.78	8" MJ Gate Valve (N)	1367.34
WL 1	56+63.65	1362.63	94002.03	60285.78	8" MJ Gate Valve (E)	1367.20
WL 1	60+21.70	1370.33	94003.52	60643.7	8" MJ Gate Valve (N)	1374.11
WL 1	60+21.70	1				