HYDRAULIC DATA

PROJECT: Twin Chimneys - Village D — **SHEET** 1 **OF** 2

LINE Upper Station	LINE Lower Station	Length	Size	Upper Invert Line	Lower Invert Line	F.L. Grade	Upper Gr. Elev.	Lower Gr. Elev.	Depth @ Manhole Upper End	Upper Hy. Elev.	Lower Hy. Elev.	Hy. Grade	Frict. Head	Velocity ft/sec	$\frac{V^2}{2g}$ feet	$\frac{V^2}{2g}$ ft./sec	Turn Loss	Shaft Grade	Inlet Grade	Area Acres	P.I.	Quantity Cu.ft./sec	Rainfall T.Q.	Rainfall Duration in Hours
											FULL 569.00													
C1002	C1001	110'	15"	560.0	559.70	8.0	568.30	567.80	8.30	567.69	569.00 FULL	0.24	1.62	0.02	—	—	1.27	2.0	0.32	2.4	1.25	1.25	9.14
P1002	P1001	95'	15"	559.30	559.30	8.0	568.18	567.78	8.77	567.55	567.45 FULL	0.20	2.89	0.09	.07	100' .06	Low	4.0	0.70	2.4	1.68	2.93	9.14
C1001	A1 2000	123'	12"	558.70	542.98	10.5	567.78	—	8.60	548.46	548.30 FULL	1.48	9.78	0.88	.27	100' .08	Low	4.0	0.41	2.4	0.98	3.91	11.64
											SEE PROF.	SEE PROF.	HGL CONTINUATION											
A1000	A2000	140'	12"	551.00	537.63	8.4	564.5	555.8	6.80	548.98	FULL 549.40	0.34	2.23	0.08	—	—	2.5	8.0	0.73	2.4	1.75	1.75	5.52
A1000	A0 1	35'	12"	547.04	545.02	7.5	555.0	549.13	6.66	546.71	FULL 547.05	0.09	6.55	0.62	.65	100' .44	3.0	12.0	1.09	2.4	1.77	4.99	9.76
											SEE PROF.	COLLECTOR	LOOP ROAD CONTINUATION											
C1007	C1006	110'	12"	558.91	547.64	8.7	564.03	556.83	5.14	548.85	FULL 554.91 FULL 548.49	0.18	1.83	0.05	—	—	Low	4.0	0.60	2.4	1.44	1.44	8.51
A1010	A1009	185'	12"	554.00	551.10	5.0	559.5	540.3	4.50	551.61	FULL 553.00 FULL 552.10	1.29	4.71	0.78	—	—	3.6	12.0	1.4	2.4	3.36	3.36	5.04
C1009	C1008	60'	12"	551.0	546.00	8.5	560.8	550.38	8.20	549.11	547.65	0.09	1.36	5.82	0.72	.44	100' .32	3.5	12.0	0.76	2.4	1.83	2.88	10.89
											SEE PROF.	SEE PROF.	FOR CONTINUATION											
A1011	A1003	90'	12"	551.10	551.10	10.0	560.38	551.8	4.65	552.20	FULL 556.10 FULL 552.10	0.10	1.26	0.04	—	100' —	Low	4.0	0.44	2.4	1.18	1.18	11.27
A1004	A1003	170'	18"	548.00	548.15	5.0	559.5	549.4	5.00	545.53	FULL 548.50 FULL 544.75	0.78	2.18	0.18	—	—	3.6	12.0	0.92	2.4	3.26	3.26	7.77
A1003	P1002	120'	15"	548.76	559.95	8.0	559.5	560.6	4.75	546.60	FULL 549.75	0.23	3.27	0.17	.04	100' .11	3.5	12.0	0.73	2.4	1.75	4.01	9.14
P1002	P1001	150'	12"	559.95	547.95	8.0	564.18	—	5.17	558.94	FULL 558.95	6.99	9.79	1.49	1.07	200' .86	Low	4.0	1.53	2.4	3.68	7.67	10.08

Pickett, Ray & Silver, inc.

Computed By Mason Grant Date 8-7-88 Checked By Date Revised 9-7-88

HYDRAULIC DATA

PROJECT: Twin Chimneys Village D — **SHEET** 2 **OF** 2

LINE Upper Station	LINE Lower Station	Length	Size	Upper Invert Line	Lower Invert Line	F.L. Grade	Upper Gr. Elev.	Lower Gr. Elev.	Depth @ Manhole Upper End	Upper Hy. Elev.	Lower Hy. Elev.	Hy. Grade	Frict. Head	Velocity ft/sec	$\frac{V^2}{2g}$ feet	$\frac{V^2}{2g}$ ft./sec	Turn Loss	Shaft Grade	Inlet Grade	Area Acres	P.I.	Quantity Cu.ft./sec	Rainfall T.Q.	Rainfall Duration in Hours
A1011	A1012	95'	12"	548.00	547.15	1.0	559.7	558.0	3.70	548.26	FULL 548.50 FULL 548.15	0.11	1.63	0.04	—	—	3.5	12.0	0.53	2.4	1.27	1.27	3.56
A1012	C1013	30'	12"	547.15	546.85	1.0	558.0	558.03	4.86	548.09	FULL 548.04	0.04	1.62	0.04	—	200' —	—	—	—	—	—	1.27	3.56
C1013	C1014	24'	15"	546.85	546.51	1.0	558.23	558.03	4.18	547.38	FULL 547.51	0.07	2.40	0.09	.05	200' .03	Low	4.0	0.70	2.4	1.68	2.95	6.46
C1013	A1013	130'	15"	546.51	538.91	1.0	558.23	558.03	4.71	546.24	FULL 547.71 FULL 547.01	0.58	3.52	0.19	.10	—	Low	4.0	0.67	2.4	1.37	4.32	15.82
A1013	A1014	115'	18"	538.71	536.66	1.3	558.2	548.03	4.09	538.76	FULL 538.14	0.82	5.03	0.39	—	200' .02	3.5	12.0	1.90	2.4	3.96	8.28	14.09
C1014	C1015	24'	18"	536.03	536.03	1.3	548.38	548.38	5.44	537.87	FULL 537.58 FULL 536.77	0.34	3.48	0.55	.16	—	Low	4.0	0.67	2.4	1.61	10.49	14.09
C1015	P1014	29'	18"	536.03	535.68	1.1	548.38	548.28	6.05	535.25	FULL 535.77	0.28	3.52	0.66	.11	200' .06	Low	4.0	0.43	2.4	1.08	11.57	14.09
P1014	A1013	103'	12"	535.68	534.98	5.3	548.8	538.91	11.63	532.71	531.45 FULL	1.26	6.93	1.66	—	200' .26	—	—	—	—	—	11.83	14.41
A1013	C1 2000	35'	18"	547.95	547.06	5.34	558.9	558.68	7.45	551.13	550.84	0.69	7.76	1.92	.26	—	3.5	12.0	0.87	2.4	2.09	13.61	24.37
											SEE PROF.	COLLECTOR	LOOP ROAD CONTINUATION											
C1 2000	A1 2001	188'	12"	544.00	539.65	8.4	577.00	568.0	7.50	544.80	FULL 544.65	0.23	1.32	0.06	—	—	Low	4.0	0.68	2.4	1.51	1.51	6.57
A1 2001	A1 2002	95'	12"	539.65	536.32	8.4	568.0	561.9	4.35	538.99	FULL 537.45	0.04	1.17	5.04	.39	200' .33	2.5	8.0	1.02	2.4	2.45	3.96	6.57
A1 2002	C1 2003	75'	12"	536.32	528.87	9.4	561.2	552.73	4.38	535.96	534.15	0.24	1.91	7.05	.77	200' .38	2.5	8.0	0.66	2.4	1.58	5.54	6.57
											SEE PROF.	COLLECTOR	LOOP ROAD											
C1 2003	C1 2004	31'	15"	525.00	524.66	1.0	550.82	550.82	4.07	526.93	FULL 526.26 FULL 526.11	0.01	1.84	0.01	—	—	Low	4.0	0.33	2.4	1.08	1.08	6.46
C1 2003	C1 2004	130'	15"	524.66	524.26	1.0	550.82	549.10	4.61	524.01	524.01	0.06	1.17	0.02	.01	100' .01	Low	4.0	0.17	2.4	0.41	1.49	6.46
C1 2003	A1 2004	130'	12"	524.36	523.0	5.0	549.10	537.5	4.54	524.41	FULL 524.36	0.65	3.85	1.17	.15	100' .09	Low	4.0	0.49	2.4	1.18	2.67	7.97
A1 2004	DCI 2005	60'	12"	523.36	522.36	5.0	537.5	529.78	4.14	524.29	FULL 524.01	0.68	4.23	1.36	.19	100' .25	3.5	12.0	0.49	2.4	1.18	3.85	7.97
											SEE PROF.	COLLECTOR	LOOP ROAD											

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