

Retyped by Lisa Fischbach 1/29/07
 Prepared by Ayres Associates 11/15/98
 VERNON HILLS, O;
 1998 GPS PROJECT

STATION	LATITUDE	N	LONGITUDE	W	HEIGHT	G.H. 1996	ELLIP	NORTH	EAST COOR.	NORTH	EAST COOR.	MSL
					NAVD 88			COOR. NAD 83 (86)		COOR. NAD 83(86)		
					METERS	METERS	METERS	METERS	METERS	FEET	FEET	FEET
MAIN CONTROL STATIONS												
101	42 16 09.84709	N	87 58 26.06114	W	217.923	-33.933	183.990	622088.486	329652.180	2040968.639	1081533.860	714.97
102	42 14 26.35932	N	87 58 30.07164	W	217.849	-33.875	183.974	618895.050	329573.702	2030491.508	1081276.387	714.73
103	42 12 44.26434	N	87 57 55.81815	W	208.932	-33.827	175.105	615748.337	330372.611	2020167.667	1083897.474	685.47
104	42 13 09.74480	N	87 59 38.28504	W	214.801	-33.824	180.977	616524.769	328019.208	2022715.011	1076176.351	704.73
105	42 12 39.91584	N	87 56 12.26552	W	201.291	-33.842	167.449	615624.813	332748.414	2019762.405	1091692.088	660.40
515	42 13 16.97932	N	87 49 13.15474	W	208.826	-33.929	174.897	616819.647	342354.838	2023682.456	1123209.164	685.12
564	42 14 25.39464	N	87 54 13.52795	W	209.822	-33.912	175.910	618892.472	335455.543	2030483.050	1100573.727	688.39
567	42 08 23.12072	N	87 55 52.85935	W	197.903	-33.716	164.187	607703.756	333230.863	1993774.737	1093274.923	649.29
569	42 13 36.99554	N	87 58 46.08593	W	225.028	-33.846	191.182	617370.435	329212.871	2025489.500	1080092.561	738.28
1038	42 16 36.96962	N	88 02 43.79326	W	264.166	-33.916	230.250	622902.897	323743.102	2043640.586	1062147.160	866.68
1292	42 19 32.29211	N	87 57 27.14892	W	202.015	-34.069	167.946	628340.670	330974.656	2061481.013	1085872.684	662.78
PHOTO CONTROL STATIONS												
3	42 16 10.75654	N	87 57 47.49083	W	217.786	-33.939	183.847	622120.332	330535.945	2041073.120	1084433.346	714.52
4	42 16 10.77391	N	87 57 16.66944	W	218.529	-33.943	184.586	622123.972	331242.250	2041085.063	1086750.615	716.96
5	42 15 45.55486	N	87 56 45.81803	W	203.226	-33.934	169.292	621349.032	331952.783	2038542.614	1089081.755	666.75
6	42 15 46.73778	N	87 57 17.95027	W	214.073	-33.929	180.144	621382.221	331216.192	2038651.501	1086665.123	702.34
7	42 15 43.13450	N	87 58 32.81436	W	219.148	-33.916	185.232	621263.633	329500.881	2038262.434	1081037.474	718.99
8	42 15 18.74832	N	87 59 01.05828	W	222.755	-33.899	188.856	620508.526	238856.649	2035785.054	1078923.856	730.83
9	42 15 12.90025	N	87 57 40.35712	W	212.258	-33.907	178.351	620335.923	330707.219	2035218.772	1084995.268	696.38
10	42 14 17.37951	N	87 56 40.56461	W	204.282	-33.919	170.363	620480.247	332077.151	2035692.275	1089489.786	670.22
12	42 14 56.58709	N	87 56 34.75722	W	204.875	-33.907	170.968	619838.377	332006.892	2033586.406	1089259.278	672.16
13	42 14 50.88424	N	87 58 04.09542	W	212.213	-33.892	178.321	619654.279	330166.004	2032982.412	1083219.631	696.24
14	42 15 01.95553	N	87 59 02.48055	W	220.757	-33.889	186.868	619990.262	328826.173	2034084.716	1078823.869	724.27
15	42 14 26.63917	N	87 59 02.15396	W	220.368	-33.846	186.498	618900.631	328838.127	2030509.818	1078863.088	722.99
17	42 14 24.88899	N	87 57 15.14434	W	207.757	-33.885	173.872	618857.116	331291.736	2030367.053	1086912.970	681.62
19	42 14 25.37247	N	87 55 54.79188	W	203.389	-33.898	169.491	618880.470	333133.892	2030443.673	1092956.777	667.29
20	42 14 00.17626	N	87 56 45.38791	W	204.931	-33.877	171.054	618097.691	331977.422	2027875.506	1089162.592	672.34
21	42 13 57.35535	N	87 57 57.58172	W	210.198	-33.864	176.334	618003.326	330322.444	2027565.910	1083732.885	689.62
22	42 14 02.63493	N	87 59 07.89098	W	223.504	-33.856	189.648	618159.460	328709.618	2028078.160	1078441.472	733.28
23	42 13 34.43713	N	87 59 38.08013	W	220.555	-33.836	186.719	617286.649	328020.874	2025214.612	1076181.817	723.60
24	42 13 35.02038	N	87 58 28.50966	W	220.414	-33.847	186.567	617311.177	329616.180	2025295.084	1081415.750	723.14
25	42 13 35.15323	N	87 57 18.77331	W	210.944	-33.858	177.086	617322.187	331215.343	2025331.206	1086662.338	692.07
26	42 13 34.73220	N	87 56 06.45818	W	197.428	-33.870	163.558	617316.747	332873.720	2025313.359	1092103.196	647.73
27	42 13 01.55000	N	87 56 51.39796	W	211.421	-33.846	177.575	616288.199	331847.800	2021938.864	1088737.324	693.64
28	42 13 08.41718	N	87 57 30.95615	W	213.432	-33.842	179.590	616496.035	330939.594	2022620.739	1085757.651	700.23
29	42 13 10.59373	N	87 58 29.00296	W	215.692	-33.834	181.858	616557.465	329608.038	2022822.281	1081389.038	707.65

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STATION	LATITUDE		LONGITUDE		HEIGHT NAVD 88	G.H. 1996	ELLIP	NORTH COOR. NAD 83 (86)	EAST COOR. NAD 83(86)	NORTH COOR. NAD 83(86)	EAST COOR. NAD 83(86)	MSL NAVD 88		
30	42 13 11.13419	N	87 59 04.94811	W	224.433	-33.829	190.604	616570.722	328783.594	2022865.775	1078684.175	736.33		
32	42 12 44.66077	N	87 58 26.23899	W	214.112	-33.821	180.291	615757.593	329674.799	2020198.034	1081608.070	702.47		
35	42 12 15.91881	N	87 57 51.94625	W	210.312	-33.812	176.500	614874.144	330465.204	2017299.585	1084210.257	690.00		
36	42 12 15.72673	N	87 57 18.51655	W	211.107	-33.818	177.289	614871.577	331232.100	2017291.163	1086717.315	692.61		
37	42 12 15.93957	N	87 56 48.92697	W	205.071	-33.824	171.247	614881.186	331910.849	2017322.689	1088944.177	672.80		
38	42 11 50.08414	N	87 56 06.13957	W	200.967	-33.819	167.148	614087.956	332896.107	2014720.234	1092176.644	659.34		
39	42 11 53.33053	N	87 55 28.00018	W	197.692	-33.827	163.865	614192.260	333770.634	2015062.438	1095045.825	648.59		
40	42 12 15.19214	N	87 55 49.63944	W	201.247	-33.834	167.413	614864.418	333271.000	2017267.676	1093406.608	660.26		
41	42 14 24.03410	N	87 59 40.35944	W	223.813	-33.863	189.950	618816.717	327962.524	2030234.510	1075990.381	734.29		
42	42 14 01.25508	N	88 00 15.95756	W	224.749	-33.846	190.903	618110.691	327149.082	2027918.157	1073321.613	737.36		
43	42 13 11.17494	N	88 00 14 75163	W	224.523	-33.818	190.705	616565.615	327182.700	2022849.020	1073431.908	736.62		
					CONTROL STATIONS									
201	42 16 14.68274	N	87 59 06.79046	W	221.744	-33.931	187.813	622233.811	328718.207	2041445.426	1078469.651	727.51		
202	42 13 36.42228	N	88 00 14.84765	W	222.526	-33.832	188.694	617344.593	327177.490	2025404.717	1073414.815	730.07		
203	42 14 02.47773	N	87 59 38.48770	W	220.887	-33.852	187.035	618151.782	328008.084	2028052.969	1076139.855	724.69		
204	42 15 45.36451	N	87 58 58.20556	W	221.433	-33.914	187.519	621330.021	328918.659	2038480.242	1079127.300	726.48		
205	42 13 36.10455	N	87 59 05.90506	W	228.083	-33.842	197.241	617341.072	328758.499	2025393.165	1078601.842	748.30		
206	42 15 17.77062	N	87 58 32.62594	W	220.886	-33.902	186.984	620481.065	329508.484	2035694.959	1081062.418	724.69		
207	42 14 48.64653	N	87 58 29.89291	W	220.523	-33.887	186.636	619582.724	329574.908	2302747.652	1081280.344	723.50		
208	42 14 00.20881	N	87 58 27.37457	W	219.826	-33.861	185.965	618088.456	329638.936	2027845.207	1081490.409	721.21		
209	42 15 42.67100	N	87 58 06.28664	W	214.375	-33.92	180.455	621251.910	330108.929	2038223.973	1083032.378	703.33		
210	42 14 26.33138	N	87 57 59.80477	W	213.236	-33.879	179.357	618897.140	330267.624	2030498.365	1083553.030	699.59		
211	42 13 35.57973	N	87 57 50.10087	W	209.103	-33.853	175.277	617332.197	330496.888	2025364.048	1084305.207	686.12		
212	42 13 09.05996	N	87 57 54.62374	W	211.238	-33.839	177.399	616513.503	330396.704	2022678.049	1083976.520	693.04		
213	42 15 12.01208	N	87 57 13.51238	W	210.523	-33.910	176.613	620311.234	331322.676	2035137.771	1087014.479	690.69		
214	42 14 54.94305	N	87 57 29.77237	W	211.673	-33.899	177.774	619782.929	330952.281	2033404.491	1085799.275	694.46		
215	42 14 01.19529	N	87 57 16.73048	W	208.769	-33.872	174.897	618125.903	331258.619	2027968.065	1086804.319	684.94		
216	42 14 43.08795	N	87 57 17.61208	W	211.945	-33.832	178.113	615715.875	331249.102	2020061.165	1086773.095	695.36		
217	42 16 08.92344	N	87 56 39.28595	W	200.862	-33.948	166.914	622070.738	332099.197	2040910.411	1089562.115	658.99		
218	42 14 25.34847	N	87 56 39.10283	W	205.160	-33.891	171.269	618875.017	332117.988	2030425.783	1089623.766	673.10		
219	42 13 42.14691	N	87 56 49.51026	W	205.675	-33.867	171.808	617540.980	331885.420	2026049.030	1088860.749	674.79		
220	42 12 41.11401	N	87 56 38.05373	W	206.723	-33.839	172.884	615659.056	332156.732	2019874.751	1089750.878	678.22		
221	42 13 58.12815	N	87 56 17.94691	W	198.804	-33.880	164.924	618037.386	332606.917	2027677.655	1091227.860	652.24		
222	42 13 04.83349	N	87 56 13.34644	W	199.966	-33.854	166.112	616393.511	332720.048	2022284.375	1091599.024	659.06		
223	42 12 12.98161	N	87 56 14.68160	W	203.639	-33.829	169.810	614793.524	332696.853	2017035.085	1091522.925	668.11		
235	42 12 14.85312	N	87 57 48.46903	W	210.285	-33.813	176.472	614847.609	330545.113	2017192.843	1084463.425	689.91		