

MONROE COUNTY

HORIZONTAL CONTROL

IOWA HARN, NAD 83 (1996), SOUTH ZONE

VERTICAL CONTROL

NORTH AMERICAN VERTICAL DATUM 1988

(NAVD 88)

December 1997

**Monroe County Engineer's Office
Albia, Iowa 52531**

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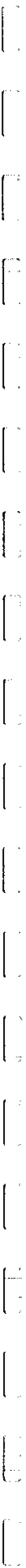
MONROE COUNTY, IOWA GPS PROJECT

ADJUSTMENT DATE SEPTEMBER 9, 1997

HORIZONTAL DATUM: IOWA HARN, NAD 83(1996), IOWA SOUTH ZONE
 VERTICAL DATUM: NAVD 88 (GPS DERIVED, GEOID96, ELEVATIONS)

The horizontal position of the following stations is hereby
 published prior to NGS's readjustment of the remaining
 (first-, second-, and third-order) NSRS stations in the region.

NUMBER	NAME	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT METERS	NORTHING METERS	EASTING METERS	ELEVATION METERS	CONVERGENCE ANGLE	SCALE FACTOR
6001	731906 4	N 41° 09' 38.48528"	W 93° 05' 56.79640"	231.324	128970.361	533645.048	263.2	+ 0° 15' 50.64"	0.99994861
6002	731907 3	N 41° 08' 00.84691"	W 93° 05' 55.80082"	230.751	125958.599	533682.148	262.6	+ 0° 15' 51.29"	0.99994905
6003	731930 4	N 41° 06' 07.57172"	W 93° 05' 53.09489"	269.371	122464.685	533761.402	301.2	+ 0° 15' 53.07"	0.99994984
6004	721906 4	N 41° 04' 27.44352"	W 93° 05' 54.15842"	266.672	119375.923	533750.848	298.5	+ 0° 15' 52.37"	0.99995079
6005	721918 4	N 41° 02' 40.13533"	W 93° 05' 54.57006"	252.902	116065.765	533756.518	284.7	+ 0° 15' 52.10"	0.99995207
6006	721930 4	N 41° 00' 52.37716"	W 93° 05' 53.98805"	273.394	112741.846	533785.459	305.2	+ 0° 15' 52.49"	0.99995363
6007	711906 4	N 40° 59' 11.08579"	W 93° 05' 53.67685"	267.573	109617.387	533807.162	299.4	+ 0° 15' 52.69"	0.99995534
6008	711918 4	N 40° 57' 23.20801"	W 93° 05' 52.89719"	277.812	106289.822	533840.764	309.6	+ 0° 15' 53.20"	0.99995742
6009	711919 3	N 40° 55' 38.92048"	W 93° 05' 51.67860"	279.363	103073.060	533884.140	311.1	+ 0° 15' 54.01"	0.99995969
6010	712036 2	N 40° 53' 59.70221"	W 93° 05' 52.75290"	267.793	100012.426	533873.151	299.6	+ 0° 15' 53.30"	0.99996209
6011	711922 4	N 40° 56' 22.99286"	W 93° 01' 53.58609"	274.424	104460.409	539447.051	306.3	+ 0° 18' 30.84"	0.99995870
6012	721916 2	N 41° 01' 48.39782"	W 93° 02' 51.73128"	271.550	114490.794	538034.790	303.4	+ 0° 17' 52.54"	0.99995279
6013	731916 2	N 41° 07' 07.60042"	W 93° 02' 29.87007"	257.668	124339.835	538493.555	289.6	+ 0° 18' 06.94"	0.99994939
6014	731806 4	N 41° 09' 25.65017"	W 92° 59' 03.81337"	220.178	128625.158	543275.066	252.2	+ 0° 20' 22.67"	0.99994866
6015	731913 1	N 41° 07' 55.26739"	W 92° 59' 12.75926"	224.208	125835.890	543082.951	256.2	+ 0° 20' 16.77"	0.99994908
6016	731830 1	N 41° 06' 06.39999"	W 92° 58' 23.70993"	201.601	122484.516	544247.245	233.6	+ 0° 20' 49.08"	0.99994985
6017	731936 2	N 41° 04' 32.56446"	W 92° 59' 14.36511"	248.175	119582.935	543082.352	280.1	+ 0° 20' 15.72"	0.99995074
6018	721912 3	N 41° 02' 40.21009"	W 92° 59' 49.37273"	257.338	116112.413	542285.224	289.3	+ 0° 19' 52.66"	0.99995207
6019	721924 2	N 41° 00' 55.82123"	W 92° 59' 11.18132"	266.884	112897.596	543196.144	298.8	+ 0° 20' 17.81"	0.99995357
6020	721831 2	N 40° 59' 14.68408"	W 92° 58' 25.07282"	265.784	109784.324	544292.298	297.7	+ 0° 20' 48.19"	0.99995527
6021	711912 3	N 40° 57' 23.20694"	W 92° 59' 44.97527"	269.039	106334.604	542444.599	300.9	+ 0° 19' 55.55"	0.99995742
6022	711830 4	N 40° 55' 32.97763"	W 92° 59' 00.12761"	270.403	102940.606	549513.551	302.3	+ 0° 20' 25.10"	0.99995983
6023	711831 3	N 40° 54' 07.20139"	W 92° 58' 59.51957"	272.409	100294.829	543543.497	304.3	+ 0° 20' 25.50"	0.99996190
6024	711816 3	N 40° 56' 40.88348"	W 92° 56' 07.99188"	262.596	105060.260	547527.190	294.5	+ 0° 22' 18.48"	0.99995831
6025	721822 4	N 41° 01' 44.48389"	W 92° 55' 03.84739"	257.643	114435.060	548964.771	289.6	+ 0° 23' 00.73"	0.99995284
6026	731815 4	N 41° 07' 35.43868"	W 92° 55' 27.82020"	251.407	125257.071	548333.150	283.5	+ 0° 22' 44.94"	0.99994920
6027	731706 4	N 41° 09' 39.49709"	W 92° 52' 10.61016"	246.628	129115.750	552905.221	278.7	+ 0° 24' 54.84"	0.99994861
6028	731717 4	N 41° 07' 49.31033"	W 92° 51' 01.19448"	246.457	125728.765	554548.833	278.6	+ 0° 25' 40.57"	0.99994912
6029	731824 3	N 41° 06' 18.30177"	W 92° 52' 45.04723"	256.843	122903.771	552146.715	288.9	+ 0° 24' 32.16"	0.99994976
6030	721706 4	N 41° 04' 28.11669"	W 92° 51' 35.73206"	256.371	119516.678	553788.984	288.5	+ 0° 25' 17.82"	0.99995079
6031	721707 2	N 41° 02' 42.31764"	W 92° 51' 05.00222"	250.732	116258.339	554519.009	282.8	+ 0° 25' 37.73"	0.99995204
6032	721730 4	N 41° 00' 55.73120"	W 92° 51' 36.59278"	251.685	112965.237	553817.084	283.7	+ 0° 25' 17.25"	0.99995358
6033	721731 3	N 40° 59' 16.86969"	W 92° 51' 49.23237"	265.716	109913.580	553544.085	297.8	+ 0° 25' 08.93"	0.99995523
6034	711718 1	N 40° 57' 23.39543"	W 92° 51' 11.01105"	269.189	106419.948	554463.482	301.2	+ 0° 25' 34.10"	0.99995742
6035	711730 4	N 40° 55' 37.18568"	W 92° 51' 50.52448"	268.512	103136.999	553563.429	300.5	+ 0° 25' 08.08"	0.99995973
6036	711836 2	N 40° 54' 02.71522"	W 92° 52' 07.10938"	271.330	100220.153	553196.575	303.4	+ 0° 24' 57.15"	0.99996201



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6037	711721 1	N 40° 56' 32.26883"	W 92° 49' 16.41550"	266.360	104863.329	557155.556	298.5	+ 0° 26' 49.59"	0.99995850
6038	721721 1	N 41° 01' 47.11508"	W 92° 48' 48.08217"	260.863	114580.245	557741.595	293.0	+ 0° 27' 08.25"	0.99995280
6039	731721 1	N 41° 06' 41.31404"	W 92° 48' 44.21341"	252.107	123655.883	557760.212	284.3	+ 0° 27' 10.80"	0.99994958
6040	731701 1	N 41° 09' 40.54348"	W 92° 45' 17.29047"	227.061	129224.217	562540.255	259.3	+ 0° 29' 27.10"	0.99994860
6041	731713 4	N 41° 07' 57.59103"	W 92° 46' 25.13486"	232.944	126035.122	560985.199	265.2	+ 0° 28' 42.41"	0.99994907
6042	731723 2	N 41° 06' 14.89289"	W 92° 46' 26.25040"	242.804	122867.046	560985.625	275.0	+ 0° 28' 41.68"	0.99994978
6043	731736 3	N 41° 04' 29.67104"	W 92° 46' 01.17226"	239.054	119626.264	561598.102	271.3	+ 0° 28' 58.19"	0.99995077
6044	721712 2	N 41° 02' 46.84234"	W 92° 45' 34.65925"	250.228	116459.650	562243.979	282.4	+ 0° 29' 15.66"	0.99995199
6045	721619 3	N 41° 00' 58.48470"	W 92° 45' 07.53227"	222.933	113122.683	562906.202	255.1	+ 0° 29' 33.53"	0.99995353
6046	711606 4	N 40° 59' 12.24616"	W 92° 45' 01.89647"	257.984	109846.807	563066.109	290.2	+ 0° 29' 37.24"	0.99995532
6047	711712 3	N 40° 57' 26.44681"	W 92° 46' 06.34664"	260.842	106570.525	561587.119	293.0	+ 0° 28' 54.79"	0.99995735
6048	711724 2	N 40° 55' 39.90099"	W 92° 45' 23.22243"	242.286	103292.607	562623.634	274.5	+ 0° 29' 23.19"	0.99995967
6049	701701 1	N 40° 53' 54.85624"	W 92° 45' 37.79661"	231.343	100049.540	562310.225	263.5	+ 0° 29' 13.59"	0.99996221
6050	711616 2	N 40° 56' 32.03343"	W 92° 42' 05.50225"	257.519	104941.655	567234.442	289.8	+ 0° 31' 33.43"	0.99995850
6051	721615 3	N 41° 02' 02.38874"	W 92° 41' 14.90168"	229.587	115142.596	568322.765	261.9	+ 0° 32' 06.76"	0.99995259
6052	731621 1	N 41° 06' 48.25512"	W 92° 41' 50.94106"	223.484	123952.580	567399.645	255.8	+ 0° 31' 43.02"	0.99994953
6053	93-07	N 41° 09' 45.53260"	W 92° 38' 23.08135"	171.348	129467.225	572194.825	203.7	+ 0° 33' 59.94"	0.99994859
6054	731612 2	N 41° 08' 03.62821"	W 92° 38' 25.08396"	178.417	126323.418	572179.011	210.8	+ 0° 33' 58.62"	0.99994904
6055	731625 1	N 41° 06' 13.84079"	W 92° 38' 37.93755"	221.293	122933.971	571912.584	253.6	+ 0° 33' 50.15"	0.99994979
6056	93-05	N 41° 04' 30.35349"	W 92° 38' 23.05543"	211.496	119745.254	572291.383	243.8	+ 0° 33' 59.96"	0.99995076
6057	721612 2	N 41° 02' 50.12841"	W 92° 38' 23.99945"	221.069	116653.469	572299.915	253.4	+ 0° 33' 59.33"	0.99995194
6058	721625 1	N 41° 00' 57.03042"	W 92° 38' 24.38547"	192.543	113164.876	572325.388	224.9	+ 0° 33' 59.08"	0.99995356
6059	93-03	N 40° 59' 15.68401"	W 92° 38' 03.86594"	235.994	110043.562	572835.897	268.3	+ 0° 34' 12.60"	0.99995525
6060	711613 1	N 40° 57' 24.62308"	W 92° 38' 22.14975"	246.051	106613.614	572442.440	278.4	+ 0° 34' 00.55"	0.99995739
6061	711625 1	N 40° 55' 39.79033"	W 92° 38' 21.76840"	233.246	103380.114	572483.352	265.6	+ 0° 34' 00.80"	0.99995967
6062	93-01	N 40° 53' 55.64907"	W 92° 38' 20.06191"	250.490	100168.259	572555.075	282.8	+ 0° 34' 01.93"	0.99996219
9663	X 7	N 40° 37' 46.25556"	W 92° 55' 06.25763"	282.520	70070.430	549205.108	314.572	+ 0° 22' 59.15"	0.99999775
9664	PARKER	N 40° 58' 18.35162"	W 92° 30' 49.36569"	226.960	108383.263	583011.463	259.462	+ 0° 38' 58.80"	0.99995632
9665	MONROE	N 41° 06' 32.71632"	W 92° 38' 57.96473"	227.936	123511.618	571439.619	260.3	+ 0° 33' 36.96"	0.99994964
9666	LOVILIA	N 41° 08' 14.50185"	W 92° 54' 24.87084"	253.660	126471.905	549793.192	285.7	+ 0° 23' 26.41"	0.99994898
9667	ALBIA	N 41° 00' 26.55277"	W 92° 48' 28.68802"	262.804	112098.811	558214.384	294.9	+ 0° 27' 21.03"	0.99995404
9668	GEORGETOWN	N 41° 00' 47.43872"	W 92° 57' 19.73800"	266.850	112654.863	545801.513	298.8	+ 0° 21' 31.22"	0.99995371
9669	LUCAS	N 41° 06' 00.29466"	W 93° 10' 19.24641"	270.162	122214.152	527552.027	298.8	+ 0° 12' 57.76"	0.99994991
9670	CHARIPORT AZ MIK	N 41° 01' 12.50902"	W 93° 21' 50.60171"	286.9	113293.780	511433.650	318.8	+ 0° 05' 22.36"	0.99995332
9671	F 111	N 40° 58' 27.10977"	W 93° 03' 14.09663"	233.944	108279.063	537544.205	265.772	+ 0° 17' 37.81"	0.99995615
9672	5 KEE	N 41° 03' 53.37154"	W 92° 59' 27.16074"	258.126	118372.211	542790.746	290.075	+ 0° 20' 07.29"	0.99995117

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6001	731906 4	423130.26	1750800.46	863	128970.361	533645.048	263.2	+ 0° 15' 50.64"	0.99994861
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6003	731930 4	401786.22	1751182.20	988	122464.685	533761.402	301.2	+ 0° 15' 53.07"	0.99994984
6004	721906 4	391652.51	1751147.57	979	119375.923	533750.848	298.5	+ 0° 15' 52.37"	0.99995079
6005	721918 4	380792.43	1751166.18	934	116065.765	533756.518	284.7	+ 0° 15' 52.10"	0.99995207
6006	721930 4	369887.21	1751261.13	1001	112741.846	533785.459	305.2	+ 0° 15' 52.49"	0.99995363
6007	711906 4	359636.38	1751332.33	982	109617.387	533807.162	299.4	+ 0° 15' 52.69"	0.99995534
6008	711918 4	348719.19	1751442.57	1016	106289.822	533840.764	309.6	+ 0° 15' 53.20"	0.99995742
6009	711919 3	338165.53	1751584.88	1021	103073.060	533884.140	311.1	+ 0° 15' 54.01"	0.99995969
6010	712036 2	328124.10	1751548.83	983	100012.426	533873.151	299.6	+ 0° 15' 53.30"	0.99996209
6011	711922 4	342717.19	1769835.87	1005	104460.409	539447.051	306.3	+ 0° 18' 30.84"	0.99995870
6012	721916 2	375625.21	1765202.48	995	114490.794	538034.790	303.4	+ 0° 17' 52.54"	0.99995279
6013	731916 2	407938.27	1766707.61	950	124339.835	538493.555	289.6	+ 0° 18' 06.94"	0.99994939
6014	731806 4	421997.71	1782394.94	827	128625.158	543275.066	252.2	+ 0° 20' 22.67"	0.99994866
6015	731913 1	412846.58	1781764.65	840	125835.890	543082.951	256.2	+ 0° 20' 16.77"	0.99994908
6016	731830 1	401851.28	1785584.50	766	122484.516	544247.245	233.6	+ 0° 20' 49.08"	0.99994985
6017	731936 2	392331.68	1781762.68	919	119582.935	543082.352	280.1	+ 0° 20' 15.72"	0.99995074
6018	721912 3	380945.47	1779147.44	949	116112.413	542285.224	289.3	+ 0° 19' 52.66"	0.99995207
6019	721924 2	370398.20	1782136.02	980	112897.596	543196.144	298.8	+ 0° 20' 17.81"	0.99995357
6020	721831 2	360184.07	1785732.31	977	109784.324	544292.298	297.7	+ 0° 20' 48.19"	0.99995527
6021	711912 3	348866.12	1779670.32	987	106334.604	542444.599	300.9	+ 0° 19' 55.55"	0.99995742
6022	711830 4	337730.97	1783177.38	992	102940.606	543513.551	302.3	+ 0° 20' 25.10"	0.99995983
6023	711831 3	329050.62	1783275.62	998	100284.829	543543.497	304.3	+ 0° 20' 25.50"	0.99996190
6024	711816 3	344685.20	1796345.46	966	105060.260	547527.190	294.5	+ 0° 22' 18.48"	0.99995831
6025	721822 4	375442.36	1801061.92	950	114435.060	548964.771	289.6	+ 0° 23' 00.73"	0.99995284
6026	731815 4	410947.57	1798989.68	930	125257.071	548333.150	283.5	+ 0° 22' 44.94"	0.99994920
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6028	731717 4	412495.12	1819382.30	914	125728.765	554548.833	278.6	+ 0° 25' 40.57"	0.99994912
6029	731824 3	403226.79	1811501.35	948	122903.771	552146.715	288.9	+ 0° 24' 32.16"	0.99994976
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6034	711718 1	349146.11	1819102.27	988	106419.948	554463.482	301.2	+ 0° 25' 34.10"	0.99995742
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6036	711836 2	328805.62	1814945.77	995	100220.153	553196.575	303.4	+ 0° 24' 57.15"	0.99996201

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 published prior to NGS's readjustment of the remaining
 (first-, second-, and third-order) NSRS stations in the region.

NUMBER	NAME	NORTHING FEET	EASTING FEET	ELEVATION FEET	NORTHING METERS	EASTING METERS	ELEVATION METERS	CONVERGENCE ANGLE	SCALE FACTOR
6037	711721 1	344039.10	1827934.52	979	104863.329	557155.556	298.5	+ 0° 26' 49.59"	0.99995850
6038	721721 1	375918.69	1829857.22	961	114580.245	557741.595	293.0	+ 0° 27' 08.25"	0.99995280
6039	731721 1	405694.34	1829918.30	933	123655.883	557760.212	284.3	+ 0° 27' 10.80"	0.99994958
6040	731701 1	423963.12	1845600.82	851	129224.217	562540.255	259.3	+ 0° 29' 27.10"	0.99994860
6041	731713 4	413500.23	1840498.94	870	126035.122	560985.199	265.2	+ 0° 28' 42.41"	0.99994907
6042	731723 2	403106.30	1840500.34	902	122867.046	560985.625	275.0	+ 0° 28' 41.68"	0.99994978
6043	731736 3	392473.83	1842509.77	890	119626.264	561598.102	271.3	+ 0° 28' 58.19"	0.99995077
6044	721712 2	382084.70	1844628.79	927	116459.650	562243.979	282.4	+ 0° 29' 15.66"	0.99995199
6045	721619 3	371136.67	1846801.43	837	113122.683	562906.202	255.1	+ 0° 29' 33.53"	0.99995353
6046	711606 4	360389.07	1847326.06	952	109846.807	563086.109	290.2	+ 0° 29' 37.24"	0.99995532
6047	711712 3	349640.13	1842473.74	961	106570.525	561587.119	293.0	+ 0° 28' 54.79"	0.99995735
6048	711724 2	338885.83	1845874.37	901	103292.607	562623.634	274.5	+ 0° 29' 23.19"	0.99995967
6049	701701 1	328245.87	1844846.13	865	100049.540	562310.225	263.5	+ 0° 29' 13.59"	0.99996221
6050	711616 2	344296.08	1861001.67	951	104941.655	567234.442	289.8	+ 0° 31' 33.43"	0.99995850
6051	721615 3	377763.67	1864572.27	859	115142.596	568322.765	261.9	+ 0° 32' 06.76"	0.99995259
6052	731621 1	406667.76	1861543.67	839	123952.580	567399.645	255.8	+ 0° 31' 43.02"	0.99994953
6053	93-07	424760.39	1872725.20	668	129467.225	572194.625	203.7	+ 0° 33' 59.94"	0.99994859
6054	731612 2	414446.08	1877223.97	692	126323.418	572179.011	210.8	+ 0° 33' 58.62"	0.99994904
6055	731625 1	403325.87	1876349.87	832	122933.971	571912.584	253.6	+ 0° 33' 50.15"	0.99994979
6056	93-05	392864.22	1877592.65	800	119745.254	572291.383	243.8	+ 0° 33' 59.96"	0.99995194
6057	721612 2	382720.59	1877620.64	831	116653.469	572299.915	253.4	+ 0° 33' 59.33"	0.99995194
6058	721625 1	371275.10	1877704.21	738	113164.876	572325.388	224.9	+ 0° 33' 59.08"	0.99995356
6059	93-03	361034.59	1879379.10	880	110043.562	572835.897	268.3	+ 0° 34' 00.55"	0.99995525
6060	711613 1	349781.50	1878086.24	913	106613.614	572442.440	278.4	+ 0° 34' 00.80"	0.99995739
6061	711625 1	339172.93	1878222.46	871	103380.114	572483.352	265.6	+ 0° 34' 01.93"	0.99995967
6062	93-01	328635.36	1878457.78	928	100166.259	572555.075	282.8	+ 0° 34' 01.93"	0.99996219
9663	X 7	229889.40	1801850.42	1032.06	70070.430	549205.108	314.572	+ 0° 22' 59.15"	0.99999775
9664	PARKER	355587.42	1912763.44	851.25	108383.263	583011.463	259.462	+ 0° 38' 58.80"	0.99995632
9665	MONROE	405221.03	1874798.15	854	123511.618	571439.619	260.3	+ 0° 33' 36.96"	0.99994964
9666	LOVILIA	414933.24	1803779.83	937	126471.905	549793.192	285.7	+ 0° 23' 26.41"	0.99994898
9667	ALBIA	367777.52	1831408.36	968	112098.811	558214.384	294.9	+ 0° 27' 21.03"	0.99995404
9668	GEORGETOWN	369601.83	1790683.80	980	112654.863	545801.513	298.8	+ 0° 21' 31.22"	0.99995371
9669	LUCAS	400964.27	1730810.28		122214.152	527552.027		+ 0° 12' 57.76"	0.99994991
9670	CHARIPOINT AZ MIK	371698.01	1677928.57	1046	113293.780	511433.650	318.8	+ 0° 05' 22.36"	0.99995332
9671	F 111	355245.56	1763592.94	871.95	108279.063	537544.205	265.772	+ 0° 17' 37.81"	0.99995615
9672	5 KEE	388359.50	1780805.97	951.69	118372.211	542790.746	290.075	+ 0° 20' 07.29"	0.99995117

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