

CLAY COUNTY, IOWA GPS PROJECT

ADJUSTMENT DATE NOVEMBER 18, 1997

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

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(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
0000	8 GJS ECCENTRIC	N 43° 03' 12.67386"	W 94° 59' 06.89000"	373.210	1173626.668	1379006.768	401.840	-1°00'23.8"	0.99996801
0001	13 GJS ECCENTRIC	N 43° 02' 47.48562"	W 95° 08' 31.15707"	397.612	1173084.712	1366224.564	426.151	-1°06'46.3"	0.99996720
0003	13 CLC RESET ECCENTRIC	N 43° 07' 35.96316"	W 94° 52' 33.68658"	390.869	1181598.792	1388035.877	419.653	-0°55'57.3"	0.99997742
0007	GPS 0007	N 43° 02' 19.20897"	W 94° 46' 37.59828"	358.291	1171699.002	1395935.956		-0°51'55.9"	0.99996630
0008	GPS 0008	N 43° 11' 13.91656"	W 94° 45' 26.79836"	354.612	1188173.673	1397783.776		-0°51'08.0"	0.99996645
0013	GPS 0013	N 43° 20' 32.35461"	W 95° 23' 33.15938"	417.581	1206364.849	1366550.129		-1°16'57.5"	1.00001470
0014	GPS 0014	N 43° 19' 39.38577"	W 95° 16' 09.68156"	425.486	1204514.191	1356562.670		-1°11'57.0"	1.00001170
0096	7 GJS RESET ECCENTRIC	N 43° 14' 30.74966"	W 95° 11' 24.09508"	407.991	1194859.719	1362745.139	436.326	-1°08'43.5"	0.99999556
7001	973806 4	N 43° 15' 18.39841"	W 95° 23' 16.55681"	403.996	1196669.933	1346707.643	431.869	-1°16'46.3"	0.99999791
7002	973818 3	N 43° 12' 47.21319"	W 95° 23' 16.98768"	391.154	1192006.710	1346593.735	419.129	-1°16'46.6"	0.99999066
7003	963806 4 / Y 17 ECCENTRIC	N 43° 10' 10.94022"	W 95° 23' 15.89995"	388.503	1187163.822	1346510.603	416.577	-1°16'45.8"	0.99998372
7004	963818 3	N 43° 07' 39.39368"	W 95° 22' 54.49182"	412.266	1182497.581	1346889.947	440.386	-1°16'31.3"	0.99997755
7005	963831 3	N 43° 05' 03.73397"	W 95° 23' 16.64801"	403.537	1177706.458	1346282.014	431.674	-1°16'46.3"	0.99997178
7006	963819 4	N 43° 02' 21.94216"	W 95° 23' 19.00660"	411.395	1172715.640	1346144.378	439.558	-1°16'47.1"	0.99996639
7007	953831 3	N 42° 59' 46.45474"	W 95° 23' 19.00660"	404.195	1167919.402	1346009.972	432.370	-1°16'47.9"	0.99996178
7008	943818 3	N 42° 57' 19.43542"	W 95° 22' 51.29195"	396.714	1163369.849	1346536.646	424.919	-1°16'29.2"	0.99995795
7009	943831 3	N 42° 54' 35.61416"	W 95° 23' 17.26574"	390.821	1158329.138	1345835.185	419.007	-1°16'46.8"	0.99995429
7010	943834 3	N 42° 54' 38.54177"	W 95° 19' 40.78313"	370.633	1158311.541	1350746.276	398.945	-1°14'20.0"	0.99995435
7011	943816 2	N 42° 57' 16.42600"	W 95° 19' 46.82480"	401.395	1163185.256	1350714.705	429.766	-1°14'24.1"	0.99995788
7012	943803 4	N 42° 59' 45.47352"	W 95° 19' 44.10445"	406.832	1167782.112	1350875.843	435.156	-1°14'22.3"	0.99996176
7013	953816 2	N 43° 02' 23.90694"	W 95° 19' 43.94950"	399.882	1172669.844	1350985.109	428.167	-1°14'22.2"	0.99996645
7014	963833 2	N 43° 05' 02.48282"	W 95° 19' 44.54213"	407.981	1177562.398	1351077.561	436.239	-1°14'22.6"	0.99997174
7015	963822 4	N 43° 07' 37.41021"	W 95° 19' 42.02916"	397.221	1182340.937	1351237.777	425.458	-1°14'20.9"	0.99997748
7016	963803 4	N 43° 10' 09.22539"	W 95° 19' 42.86643"	387.690	1187025.159	1351320.183	415.886	-1°14'21.5"	0.99998365
7017	973822 4	N 43° 12' 39.53052"	W 95° 19' 36.08372"	400.690	1191659.139	1351573.569	428.813	-1°14'16.9"	0.99999030
7018	973804 1	N 43° 15' 18.84243"	W 95° 19' 49.75943"	393.611	1196581.056	1351371.393	421.616	-1°14'26.1"	0.99999793
7019	973706 4	N 43° 15' 19.18567"	W 95° 16' 08.92515"	391.042	1196486.605	1356351.677	419.180	-1°11'56.5"	0.99999795
7020	973813 2	N 43° 12' 48.50954"	W 95° 16' 09.90623"	386.214	1191837.193	1356232.236	414.453	-1°11'57.1"	0.99999072
7021	973731 3	N 43° 10' 08.83628"	W 95° 15' 59.95352"	380.719	1186906.098	1356353.870	409.035	-1°11'50.4"	0.99998364
7022	963719 4	N 43° 07' 35.83392"	W 95° 16' 09.06855"	395.617	1182189.892	1356049.225	423.966	-1°11'56.6"	0.99997742

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NUMBER	NAME	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT METERS	NORTHING METERS	EASTING METERS	ELEVATION METERS	CONVERGENCE ANGLE	SCALE FACTOR
7023	953706 4	N 43° 05' 01.19766"	W 95° 16' 09.83025"	397.783	1177419.397	1355932.144	426.151	-1°11'57.1"	0.99997169
7024	953813 2	N 43° 02' 22.18810"	W 95° 16' 11.95278"	401.932	1172514.685	1355781.419	430.322	-1°11'58.5"	0.99996639
7025	953836 2	N 42° 59' 45.80050"	W 95° 16' 24.77353"	398.432	1167696.008	1355390.051	426.832	-1°12'07.2"	0.99996176
7026	943718 3	N 42° 57' 12.86192"	W 95° 16' 03.33766"	405.299	1162967.536	1355776.818	433.710	-1°11'52.7"	0.99995779
7027	943836 2	N 42° 54' 36.45542"	W 95° 16' 11.40375"	394.900	1158146.125	1355492.997	423.310	-1°11'58.1"	0.99995430
7028	943733 2	N 42° 54' 39.84894"	W 95° 12' 46.21896"	355.361	1158154.961	1360148.177	383.861	-1°09'39.1"	0.99995437
7029	943716 2	N 42° 57' 11.92759"	W 95° 12' 39.51799"	392.011	1162843.669	1360395.106	420.510	-1°09'34.6"	0.99995777
7030	953734 3	N 42° 59' 52.23760"	W 95° 12' 38.03556"	388.730	1167788.779	1360528.788	417.225	-1°09'33.6"	0.99996194
7031	953716 2	N 43° 02' 22.90594"	W 95° 12' 40.34737"	399.456	1172438.223	1360570.539	427.934	-1°09'35.1"	0.99996642
7032	963734 3	N 43° 05' 03.13707"	W 95° 12' 37.34217"	385.985	1177380.322	1360738.577	414.453	-1°09'33.1"	0.99997176
7033	963722 4	N 43° 07' 37.54740"	W 95° 12' 37.18179"	375.600	1182144.204	1360838.598	404.055	-1°09'33.0"	0.99997748
7034	963703 1	N 43° 10' 08.70504"	W 95° 11' 58.25152"	377.652	1186790.588	1361789.545	406.090	-1°09'07.3"	0.99998363
7035	973716 2	N 43° 12' 47.67993"	W 95° 12' 36.14487"	390.957	1191712.312	1361065.609	419.310	-1°09'32.3"	0.99999068
7036	973704 1	N 43° 15' 18.88685"	W 95° 12' 35.51009"	396.005	1196377.341	1361164.306	424.263	-1°09'31.9"	0.99999793
7037	973606 4	N 43° 15' 19.34925"	W 95° 08' 56.92195"	407.059	1196293.662	1360994.138	435.421	-1°07'03.7"	0.99999796
7038	973724 1	N 43° 12' 44.57657"	W 95° 09' 03.35153"	390.537	1191521.090	1365855.870	418.994	-1°07'08.1"	0.99999053
7039	963606 4	N 43° 10' 08.21582"	W 95° 08' 49.48103"	374.542	1186690.650	1366074.889	403.075	-1°06'58.7"	0.99998361
7040	963619 4	N 43° 07' 32.09499"	W 95° 08' 55.48000"	372.609	1181876.430	1365845.457	401.177	-1°07'02.7"	0.99997727
7041	953701 1	N 43° 04' 59.70454"	W 95° 09' 14.04028"	385.208	1177182.927	1365334.014	413.754	-1°07'15.3"	0.99997164
7042	953618 3	N 43° 02' 21.80753"	W 95° 08' 54.32464"	398.227	1172302.684	1365684.875	426.780	-1°07'02.0"	0.99996638
7043	943701 1	N 42° 59' 44.51362"	W 95° 09' 10.30692"	385.010	1167456.887	1365228.292	413.571	-1°07'12.8"	0.99996173
7044	943724 1	N 42° 57' 12.07851"	W 95° 09' 14.15168"	379.755	1162755.691	1365049.201	408.322	-1°07'15.4"	0.99995777
7045	943631 3	N 42° 54' 35.86117"	W 95° 08' 52.64514"	399.798	1157926.633	1365442.623	428.375	-1°07'00.8"	0.99995429
7046	943633 2	N 42° 54' 35.67663"	W 95° 05' 34.51470"	395.388	1157834.803	1369935.740	424.010	-1°04'46.5"	0.99995429
7047	943621 1	N 42° 57' 15.84136"	W 95° 05' 46.57005"	369.191	1162781.341	1369755.660	397.809	-1°04'54.7"	0.99995787
7048	943604 1	N 42° 59' 45.04230"	W 95° 05' 09.04194"	396.491	1167394.151	1369393.670	425.099	-1°05'09.9"	0.99996174
7049	953622 4	N 43° 02' 12.78193"	W 95° 05' 33.73832"	391.423	1171937.190	1370219.072	420.035	-1°04'46.0"	0.99996610
7050	953603 4	N 43° 04' 49.87136"	W 95° 05' 32.06434"	381.241	1176783.152	1370248.253	409.858	-1°04'44.9"	0.99997129
7051	963622 4	N 43° 07' 36.05973"	W 95° 05' 32.46903"	383.805	1181910.798	1370435.692	412.436	-1°04'45.2"	0.99997743
7052	963604 1	N 43° 10' 08.41212"	W 95° 05' 32.76186"	372.623	1186611.576	1370517.628	401.219	-1°04'45.3"	0.99998362

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7053	973621 1	N 43° 12' 42.80521"	W 95° 05' 30.48336"	385.198	1191374.290	1370658.793	413.729	-1°04'43.8"	0.99999045
7054	973604 1	N 43° 15' 19.56315"	W 95° 05' 32.62499"	417.119	1196211.920	1370701.577	445.548	-1°04'45.3"	0.99999797
7055	973506 4	N 43° 15' 14.29535"	W 95° 01' 57.85138"	399.146	1195959.843	1375642.272	427.631	-1°02'19.7"	0.99999771
7056	973518 3	N 43° 12' 46.46942"	W 95° 01' 58.28083"	390.972	1191398.834	1375449.875	419.539	-1°02'20.0"	0.99999062
7057	973531 3	N 43° 10' 09.12344"	W 95° 01' 58.68128"	381.339	1186544.142	1375352.793	409.974	-1°02'20.3"	0.99998365
7058	963613 2	N 43° 07' 37.54894"	W 95° 01' 59.80350"	370.392	1181867.920	1375242.619	399.053	-1°02'21.0"	0.99997748
7059	963636 2	N 43° 05' 01.21261"	W 95° 01' 59.50908"	390.152	1177044.198	1375161.783	418.817	-1°02'20.8"	0.99997169
7060	953519 4	N 43° 02' 21.37572"	W 95° 01' 58.50050"	393.089	1172112.274	1375095.160	421.749	-1°02'20.1"	0.99996637
7061	953636 2	N 42° 59' 46.03236"	W 95° 02' 00.46920"	388.393	1167320.273	1374963.659	417.049	-1°02'21.5"	0.99996177
7062	943613 2	N 42° 57' 12.42394"	W 95° 02' 01.99030"	382.242	1162581.673	1374843.212	410.898	-1°02'22.5"	0.99995778
7063	943531 3	N 42° 54' 35.41866"	W 95° 02' 00.58187"	388.023	1157737.122	1374787.254	416.681	-1°02'21.5"	0.99995428
7064	943533 2	N 42° 54' 35.28847"	W 94° 58' 41.45478"	385.922	1157662.657	1379303.131	414.609	-1°00'06.6"	0.99995428
7065	943522 4	N 42° 57' 08.37121"	W 94° 58' 23.37138"	396.061	1162368.509	1379795.553	424.748	-0°59'54.3"	0.99995769
7067	963515 3	N 43° 02' 21.32396"	W 94° 58' 23.44898"	409.711	1172024.136	1379962.071	438.402	-0°59'54.3"	0.99996637
7068	963534 3	N 43° 05' 00.19560"	W 94° 58' 21.11764"	393.256	1176925.009	1380100.223	421.948	-0°59'52.8"	0.99997166
7069	963522 4	N 43° 07' 33.67884"	W 94° 58' 19.89837"	379.729	1181660.130	1380210.273	408.410	-0°59'51.9"	0.99997733
7070	973534 3	N 43° 10' 07.41715"	W 94° 58' 21.58660"	381.049	1186404.329	1380254.760	409.709	-0°59'53.1"	0.99998358
7071	973521 1	N 43° 12' 53.89415"	W 94° 58' 34.98675"	384.386	1191546.261	1380041.841	412.978	-1°00'02.2"	0.99999096
7072	973503 4	N 43° 15' 18.26433"	W 94° 58' 23.54617"	388.293	1195996.372	1380377.662	416.809	-0°59'54.4"	0.99999790
7073	973501 1	N 43° 15' 17.92322"	W 94° 55' 25.13284"	403.897	1195916.900	1384401.239	432.435	-0°57'53.5"	0.99999789
7074	973513 2	N 43° 12' 44.76467"	W 94° 54' 49.58166"	366.547	1191177.604	1385123.992	425.166	-0°57'29.4"	0.99999054
7075	963501 1	N 43° 10' 06.93325"	W 94° 55' 23.13719"	383.684	1186320.367	1384284.701	412.358	-0°57'52.1"	0.99998355
7076	963524 1	N 43° 07' 27.24347"	W 94° 54' 49.64941"	390.614	1181380.454	1384858.604	419.314	-0°57'29.4"	0.99997708
7077	963536 2	N 43° 04' 59.27116"	W 94° 54' 49.42129"	401.876	1176814.750	1384887.402	430.588	-0°57'29.3"	0.99997162
7078	953513 2	N 43° 02' 21.26656"	W 94° 54' 52.82793"	388.289	1171940.942	1384228.770	417.002	-0°57'31.6"	0.99996636
7079	943501 1	N 42° 59' 44.35528"	W 94° 54' 52.33396"	392.494	1167099.452	1384658.936	421.206	-0°57'31.3"	0.99996172
7080	943524 1	N 42° 57' 11.22159"	W 94° 54' 51.72327"	394.207	1162377.562	1384412.407	422.918	-0°57'36.3"	0.99995775
7081	943536 2	N 42° 54' 35.20004"	W 94° 54' 56.83532"	386.525	1157562.727	1384397.233	415.235	-0°57'34.3"	0.99995428
7082	963803 3 / A 18 ECCENTRIC	N 43° 09' 47.14477"	W 95° 19' 38.52693"	386.920	1186341.803	1351403.452	415.141	-1°14'18.5"	0.99998272
7083	953812 4	N 43° 03' 59.56972"	W 95° 17' 06.94643"	401.601	1175545.228	1354600.368	429.962	-1°12'35.8"	0.99996957

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7084	943833 4	N 42° 55' 08.94844"	W 95° 20' 48.93314"	348.632	1159283.177	1349221.359	376.912	-1°15'06.3"	0.99995498
7085	943520 4	N 42° 56' 51.07013"	W 95° 00' 37.43513"	387.896	1161888.347	1376747.691	416.567	-1°01'25.2"	0.99995727
7086	953625 4	N 43° 01' 03.86767"	W 95° 03' 08.52031"	398.171	1169749.839	1373466.604	426.818	-1°03'07.6"	0.99996400
7087	963518 2	N 43° 07' 41.55320"	W 95° 01' 13.71721"	370.241	1181972.624	1376286.360	398.900	-1°01'49.8"	0.99997764
7088	963618 4	N 43° 08' 16.01166"	W 95° 09' 00.47935"	372.060	1183233.606	1365758.927	400.627	-1°07'06.1"	0.99997900
7089	963703 3	N 43° 09' 24.21902"	W 95° 12' 09.72538"	378.604	1185422.814	1361525.365	407.047	-1°09'14.4"	0.99998176
9702	72 T	N 42° 57' 18.99969"	W 95° 08' 35.55031"	388.333	1162952.161	1365928.141	416.910	-1°06'49.2"	0.99995794
9704	74 T	N 42° 56' 17.86870"	W 94° 51' 21.33134"	378.125	1160650.270	1389335.522	406.944	-0°55'08.3"	0.99995650
9705	K 22 RESET	N 42° 51' 05.75070"	W 94° 58' 33.16001"	392.630	1151184.653	1379378.375	421.3	-1°00'01.0"	0.99995051
9706	A 19	N 43° 06' 09.49124"	W 94° 38' 22.46702"	344.210	1178644.348	1407238.041	372.810	-0°46'20.4"	0.99997415
9709	M 19	N 43° 18' 38.10272"	W 94° 47' 33.28322"	359.310	1201922.886	1395137.516	387.789	-0°52'33.7"	1.00000832
9710	WHYNOT	N 43° 15' 56.19508"	W 95° 01' 58.98647"	417.630	1197253.140	1375540.120	446.1	-1°02'20.5"	0.99999981
9711	MILPORT	N 43° 20' 04.68327"	W 95° 09' 09.71280"	409.350	1205103.265	1365977.816	437.5	-1°07'12.4"	1.00001313
9712	LAKE PARK	N 43° 26' 36.32728"	W 95° 22' 06.59870"	439.060	1217551.667	1348747.632	466.5	-1°15'58.9"	1.00003709
9715	G 18	N 43° 08' 40.60620"	W 95° 08' 40.66345"	372.597	1183983.705	1366221.428	401.199	-1°06'52.7"	0.99997998
9716	SPENCER	N 43° 09' 40.82730"	W 95° 08' 45.13746"	378.106	1185843.704	1366156.528	406.656	-1°06'55.7"	0.99998246
9717	DIVIDE	N 42° 50' 32.39408"	W 95° 19' 44.18661"	441.879	1150719.622	1350504.789	470.1	-1°14'22.3"	0.99995000
9718	SCHUCK	N 43° 04' 07.39487"	W 95° 18' 18.28279"	403.033	1175820.916	1352991.893	431.345	-1°13'24.1"	0.99996983
9766	78 T	N 42° 59' 42.04743"	W 94° 58' 22.62374"	407.463	1167109.590	1379895.116	436.202	-0°59'53.8"	0.99996166
9790	59 DWB	N 43° 13' 37.83423"	W 95° 22' 05.78326"	396.898	1193531.792	1348235.058	424.873	-1°15'58.3"	0.99999302
9791	40 DWB	N 43° 05' 19.15447"	W 95° 22' 04.93291"	407.944	1178146.168	1347914.224	436.127	-1°15'57.7"	0.99997233
9792	42 DWB	N 43° 00' 38.55127"	W 95° 23' 20.55126"	405.239	1169527.374	1346010.912	433.444	-1°16'49.0"	0.99996326
9793	57 T	N 42° 54' 36.66573"	W 95° 22' 04.99574"	403.302	1158325.164	1347474.747	431.602	-1°15'57.8"	0.99995431
9794	65 T	N 42° 55' 25.02854"	W 95° 14' 58.77545"	394.652	1159610.348	1357171.030	423.073	-1°11'09.0"	0.99995533
9795	12 GJS	N 43° 02' 22.92390"	W 95° 15' 00.51379"	398.422	1172503.723	1357398.560	426.846	-1°11'10.1"	0.99996642
9797	4 GJS RESET	N 43° 14' 29.68592"	W 95° 07' 44.01207"	405.661	1194729.437	1367708.870	434.076	-1°06'14.3"	0.99999551
9798	ET 15 HK	N 43° 14' 45.43381"	W 95° 00' 09.03584"	394.520	1195025.246	1377980.568	423.039	-1°01'05.9"	0.99999628
9799	ET 16 HK	N 43° 08' 20.83145"	W 95° 00' 42.96295"	388.562	1183172.057	1377003.052	417.196	-1°01'28.9"	0.99997919

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		FEET	FEET	FEET	METERS	METERS	METERS	ANGLE	
0000	8 GJS ECCENTRIC	3850470.213	4524291.370	1318.37	1173625.668	1379006.768	401.840	-1°00'23.8"	0.99996801
0001	13 GJS ECCENTRIC	3848695.426	4482355.091	1398.13	1173084.712	1366224.564	426.151	-1°06'46.3"	0.99996720
0003	13 CLC RESET ECCENTRIC	3876628.705	4553914.374	1376.81	1181598.792	1388035.877	419.653	-0°55'57.3"	0.99997742
0007	GPS 0007	3844149.142	4579833.217		1171699.002	1395935.956		-0°51'55.9"	0.99996630
0008	GPS 0008	3898199.793	4585895.604		1188173.673	1397783.776		-0°51'08.0"	0.99996645
0013	GPS 0013	3957882.009	4417806.550		1206364.849	1346550.129		-1°16'57.5"	1.00001470
0014	GPS 0014	3951810.309	4450459.178		1204514.191	1356502.670		-1°11'57.0"	1.00001170
0096	7 GJS RESET ECCENTRIC	3920135.593	4470939.678	1431.51	1194859.719	1362745.139	436.326	-1°08'43.5"	0.99999556
7001	973806 4	3926074.606	4418323.324	1416.89	1196669.933	1346707.643	431.869	-1°16'46.3"	0.99999791
7002	973818 3	3910772.068	4417949.614	1375.09	1192005.710	1346510.603	419.129	-1°16'46.6"	0.99999066
7003	963806 4 / Y 17 ECCENTRIC	3894952.257	4417676.870	1366.72	1187183.822	1346510.603	416.577	-1°16'45.8"	0.99998372
7004	963818 3	3879577.480	4418921.435	1444.83	1182497.581	1346889.947	440.386	-1°16'31.3"	0.99997755
7005	963831 3	3863858.606	4416926.909	1416.25	1177706.458	1346282.014	431.674	-1°16'46.3"	0.99997178
7006	953819 4	3847484.561	4416475.346	1442.12	1172715.640	1346144.378	439.558	-1°16'47.1"	0.99996639
7007	953831 3	3831748.904	4416034.384	1418.53	1167919.402	1346009.972	432.370	-1°16'47.9"	0.99996178
7008	943818 3	3816822.578	4417762.312	1394.09	1163369.849	1346536.646	424.919	-1°16'29.2"	0.99995795
7009	943831 3	3800284.847	4415460.936	1374.69	1158329.138	1345635.185	419.007	-1°16'46.8"	0.99995429
7010	943834 3	3800227.113	4431573.407	1308.87	1158311.541	1350746.276	398.945	-1°14'20.0"	0.99996435
7011	943816 2	3816216.962	4431469.828	1409.79	1163185.256	1350714.705	429.706	-1°14'24.1"	0.99995788
7012	943803 4	3831298.480	4431998.495	1427.61	1167782.112	1350875.843	435.135	-1°14'22.3"	0.99996176
7013	953816 2	3847334.312	4432356.978	1404.74	1172669.844	1350985.109	428.167	-1°14'22.2"	0.99996645
7014	963833 2	3863385.968	4432660.298	1431.23	1177662.398	1351077.561	436.239	-1°14'22.6"	0.99997174
7015	963822 4	3879063.556	4433185.940	1395.86	1182240.937	1351237.777	425.458	-1°14'20.9"	0.99997748
7016	963803 4	3894431.710	4433456.301	1364.45	1187025.159	1351573.569	415.886	-1°14'21.5"	0.99998365
7017	973822 4	3909635.024	4434287.619	1406.86	1191659.139	1351673.393	421.616	-1°14'16.9"	0.99999030
7018	973804 1	3925783.013	4433624.311	1383.25	1196581.056	1351371.393	419.180	-1°14'26.1"	0.99999793
7019	973706 4	3925469.856	4449963.795	1375.26	1196485.605	1356351.677	414.453	-1°11'56.5"	0.99999795
7020	973813 2	3910219.192	4449571.929	1359.75	1191837.193	1356232.236	409.035	-1°11'57.1"	0.99999072
7021	973731 3	3894041.089	4449970.989	1341.98	1186906.098	1356353.870	423.966	-1°11'56.6"	0.99998364
7022	963719 4	3878568.005	4448971.500	1390.96	1182189.892	1356049.225			0.99997742

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		FEET	FEET	FEET	METERS	METERS	METERS	ANGLE	FACTOR
7023	953706 4	3862916.804	4448587.374	1398.13	1177419.397	1355932.144	426.151	-1°11'57.1"	0.99997169
7024	953813 2	3846825.263	4448092.873	1411.81	1172514.685	1355781.419	430.322	-1°11'58.5"	0.99996639
7025	953836 2	3831015.985	4446808.860	1400.36	1167696.008	1355390.051	426.832	-1°12'07.2"	0.99996176
7026	943718 3	3815502.658	4448077.777	1422.93	1162967.536	1355776.818	433.710	-1°11'52.7"	0.99995779
7027	943836 2	3799684.413	4447146.608	1388.81	1158146.125	1355492.997	423.310	-1°11'58.1"	0.99995430
7028	943733 2	3799713.401	4462419.478	1259.38	1158154.961	1360148.177	383.861	-1°09'39.1"	0.99995437
7029	943716 2	3815096.272	4463229.611	1379.62	1162843.669	1360395.106	420.510	-1°09'34.6"	0.99995777
7030	953734 3	3831320.351	4463668.198	1368.85	1167788.779	1360528.788	417.225	-1°09'33.6"	0.99996194
7031	953716 2	3846574.402	4463805.178	1403.98	1172438.223	1360570.539	427.934	-1°09'35.1"	0.99996642
7032	963734 3	3862788.607	4464356.481	1359.75	1177380.322	1360738.577	414.453	-1°09'33.1"	0.99997176
7033	963722 4	3878418.109	4464684.633	1325.64	1182144.204	1360838.598	404.055	-1°09'33.0"	0.99997748
7034	963703 1	3893662.122	4467804.533	1332.31	1186790.588	1361789.545	406.090	-1°09'07.3"	0.99998363
7035	973716 2	3909809.477	4465396.610	1375.69	1191712.312	1361055.609	419.310	-1°09'32.3"	0.99999068
7036	973704 1	3925114.661	4465753.228	1391.94	1196377.341	1361164.306	424.263	-1°09'31.9"	0.99999793
7037	973606 4	3924840.122	4481927.185	1428.54	1196293.662	1366094.138	435.421	-1°07'03.7"	0.99999796
7038	973724 1	3909182.110	4481145.466	1374.65	1191521.090	1365855.870	418.994	-1°07'08.1"	0.99999053
7039	963606 4	3893334.240	4481864.031	1322.42	1186690.650	1366074.889	403.075	-1°06'58.7"	0.99998361
7040	963619 4	3877539.586	4481111.304	1316.19	1181876.430	1365845.457	401.177	-1°07'02.7"	0.99997727
7041	953701 1	3862140.986	4479433.345	1357.46	1177182.927	1365334.014	413.754	-1°07'15.3"	0.99997164
7042	953618 3	3846129.722	4480584.462	1400.19	1172302.684	1365684.875	426.780	-1°07'02.0"	0.99996638
7043	943701 1	3830231.470	4479086.488	1356.86	1167456.887	1365228.292	413.571	-1°07'12.8"	0.99996173
7044	943724 1	3814807.631	4478498.921	1339.64	1162755.691	1365049.201	408.322	-1°07'15.4"	0.99995777
7045	943631 3	3798964.294	4479789.673	1405.43	1157926.633	1365442.623	428.375	-1°07'00.8"	0.99995429
7046	943633 2	3798663.015	4484530.840	1391.11	1157834.803	1369935.740	424.010	-1°04'46.5"	0.99995429
7047	943621 1	3814891.784	4483940.029	1305.15	1162781.341	1369756.660	397.809	-1°04'54.7"	0.99995787
7048	943604 1	3830025.642	4482555.549	1394.68	1167394.151	1369333.670	425.099	-1°05'09.9"	0.99996174
7049	953622 4	3844930.598	4485460.407	1378.06	1171937.190	1370219.072	420.035	-1°04'46.0"	0.99996610
7050	953603 4	3860829.390	4485884.226	1344.68	1176783.152	1370348.253	409.858	-1°04'44.9"	0.99997129
7051	963622 4	3877652.344	4486171.098	1353.13	1181910.798	1370435.692	412.436	-1°04'45.2"	0.99997743
7052	963604 1	3893074.811	4486439.919	1316.33	1186611.576	1370517.628	401.219	-1°04'45.3"	0.99998362

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7053	973621 1	3908700.482	4496903.057	1357.38	1191374.290	1370658.793	413.729	-1°04'43.8"	0.99999045
7054	973604 1	3924571.940	4497043.424	1461.77	1196211.920	1370701.577	445.548	-1°04'45.3"	0.99999797
7055	973506 4	3923744.919	4512924.939	1402.99	1195959.843	1375542.272	427.631	-1°02'19.7"	0.99999771
7056	973518 3	3908781.009	4512621.798	1376.44	1191398.834	1375449.875	419.539	-1°02'20.0"	0.99999062
7057	973531 3	3892855.573	4512303.290	1345.06	1186544.142	1375352.793	409.974	-1°02'20.3"	0.99998365
7058	963613 2	3877511.667	4511941.826	1309.23	1181867.920	1375242.619	399.053	-1°02'21.0"	0.99997748
7059	963636 2	3861685.840	4511676.615	1374.07	1177044.198	1375161.783	418.817	-1°02'20.8"	0.99997169
7060	953519 4	3845505.017	4511458.038	1383.69	1172112.274	1375095.160	421.749	-1°02'20.1"	0.99996637
7061	953636 2	3829783.261	4511026.604	1368.27	1167320.273	1374963.659	417.049	-1°02'21.5"	0.99996177
7062	943613 2	3814236.706	4510631.437	1348.09	1162581.673	1374843.212	410.898	-1°02'22.5"	0.99995778
7063	943531 3	3798342.540	4510447.848	1367.06	1157737.122	1374787.254	416.681	-1°02'21.5"	0.99995428
7064	943533 2	3798065.425	4525263.690	1360.26	1157652.657	1373303.131	414.609	-1°00'06.6"	0.99995428
7065	943522 4	3813537.351	4526879.245	1393.53	1162368.509	1379795.553	424.748	-0°59'54.3"	0.99995769
7067	953515 3	3845215.854	4527425.560	1438.32	1172024.136	1379962.071	438.402	-0°59'54.3"	0.99996637
7068	963534 3	3861294.799	4527878.814	1384.34	1176925.009	1380100.223	421.948	-0°59'52.8"	0.99997166
7069	963522 4	3876829.943	4528239.872	1339.93	1181660.130	1380210.273	408.410	-0°59'51.9"	0.99997733
7070	973534 3	3892394.870	4528385.825	1344.19	1186404.329	1380254.760	409.709	-0°59'53.1"	0.99998358
7071	973521 1	3909264.692	4527687.273	1354.91	1191546.261	1380041.841	412.978	-1°00'02.2"	0.99999096
7072	973503 4	3923864.764	4528789.047	1367.48	1195996.372	1380377.662	416.809	-0°59'54.4"	0.99999790
7073	973501 1	3923604.028	4541989.733	1418.75	1195916.900	1384401.239	432.435	-0°57'53.5"	0.99999789
7074	973513 2	3908055.189	4544360.962	1394.90	1191177.604	1385123.992	425.166	-0°57'29.4"	0.99999054
7075	963501 1	3892119.405	4541607.389	1352.88	1186320.367	1384284.701	412.358	-0°57'52.1"	0.99998355
7076	963524 1	3875912.374	4543818.352	1375.70	1181380.454	1384958.604	419.314	-0°57'29.4"	0.99997708
7077	963536 2	3860933.058	4543584.752	1412.69	1176614.750	1384887.402	430.588	-0°57'29.3"	0.99997162
7078	953513 2	3844942.906	4543064.308	1366.11	1171940.942	1384728.770	417.002	-0°57'31.6"	0.99996636
7079	943501 1	3829058.784	4542835.192	1381.91	1167099.452	1384658.936	421.206	-0°57'31.3"	0.99996172
7080	943524 1	3813567.053	4542026.371	1387.52	1162377.562	1384412.407	422.918	-0°57'36.3"	0.99995775
7081	943536 2	3797770.381	4541976.589	1362.32	1157562.727	1384397.233	415.235	-0°57'34.3"	0.99995428
7082	963803 3 / A 18 ECCENTRIC	3892189.732	4433729.491	1362.01	1186341.803	1351403.452	415.141	-1°14'18.5"	0.99998272
7083	953812 4	3856767.969	4444218.040	1410.60	1175545.228	1354600.368	429.952	-1°12'35.8"	0.99996957

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7084	943833.4	3803414.891	4426570.409	1236.59	1159283.177	1348221.359	376.912	-1°15'06.3"	0.99995498
7085	943520.4	3811962.017	4516879.715	1366.69	1161888.347	1376747.691	416.567	-1°01'25.2"	0.99995727
7086	953625.4	3837754.264	4506115.015	1400.32	1169749.839	1373466.604	426.818	-1°03'07.6"	0.99996400
7087	963518.2	3877855.183	4515366.167	1308.72	1181972.624	1376286.360	398.900	-1°01'49.8"	0.99997764
7088	963618.4	3881992.257	4480827.413	1314.39	1183233.606	1365758.927	400.627	-1°07'06.1"	0.99997900
7089	963703.3	3889174.682	4466937.802	1335.45	1185422.814	1361525.365	407.047	-1°09'14.4"	0.99998176
9702	72 T	3815452.214	4481382.578	1367.81	1162952.161	1365928.141	416.910	-1°06'49.2"	0.99995794
9704	74 T	3807900.093	4558178.293	1335.12	1160650.270	1389335.522	406.944	-0°55'08.3"	0.99995650
9705	K 22 RESET	3776844.983	4525510.553	1382.1	1151184.653	1379378.375	421.3	-1°00'01.0"	0.99995051
9706	A 19	3866935.665	4616913.472	1223.13	1178644.348	1407238.041	372.810	-0°46'20.4"	0.99997415
9709	M 19	3943308.667	4577213.665	1272.27	1201922.886	1395137.516	387.789	-0°52'33.7"	1.00000832
9710	WHYNOT	3927988.009	4512917.877	1463.6	1197253.140	1375540.120	446.1	-1°02'20.5"	0.99999981
9711	MILPORT	3953742.963	4481545.551	1435.4	1205103.265	1365977.816	437.5	-1°07'12.4"	1.00001313
9712	LAKE PARK	3994584.094	4425016.189	1530.4	1217551.667	1348747.632	466.5	-1°15'58.9"	1.00003709
9715	G 18	3884453.207	4482344.802	1316.27	1183983.705	1366221.428	401.199	-1°06'52.7"	0.99997998
9716	SPENCER	3890555.553	4482131.875	1334.17	1185843.704	1366156.528	406.656	-1°06'55.7"	0.99998246
9717	DIVIDE	3775319.292	4430781.127	1542.4	1150719.622	1350504.789	470.1	-1°14'22.3"	0.99995000
9718	SCHUCK	3657672.455	4438940.904	1415.17	1175820.916	1352991.893	431.345	-1°13'24.1"	0.99996963
9766	78 T	3829092.047	4527205.894	1431.11	1167109.590	1379895.116	436.202	-0°50'53.8"	0.99996166
9790	59 DWB	3915778.889	4423334.520	1393.94	1193531.792	1348235.058	424.873	-1°15'58.3"	0.99999302
9791	40 DWB	3865301.219	4422281.917	1430.86	1178146.168	1341914.224	436.127	-1°15'57.7"	0.99997233
9792	42 DWB	3837024.394	4416037.467	1422.06	1169527.374	1346010.912	433.444	-1°16'49.0"	0.99996326
9793	57 T	3800271.810	4420840.067	1416.01	1158325.164	1347474.747	431.602	-1°15'57.8"	0.99995431
9794	65 T	3804488.285	4452651.953	1388.03	1159610.348	1351771.030	423.073	-1°11'09.0"	0.99995533
9795	12 GJS	3846789.297	4453398.441	1400.41	1172603.723	1357398.560	426.846	-1°11'10.1"	0.99996642
9797	4 GJS RESET	3919708.160	4487224.849	1424.13	1194729.437	1367708.870	434.076	-1°06'14.3"	0.99999551
9798	ET 15 HK	3920678.660	4520924.580	1387.92	1195025.246	1377980.568	423.039	-1°01'05.9"	0.99999628
9799	ET 16 HK	3881790.323	4517717.512	1368.75	1183172.057	1377003.052	417.196	-1°01'28.9"	0.99997919

CLAY COUNTY

HORIZONTAL CONTROL

IOWA HARN, NAD 83 (1996), NORTH ZONE

VERTICAL CONTROL

NORTH AMERICAN VERTICAL DATUM 1988

(NAVD 88)

December 1997

Clay County Engineer's Office
Spencer, Iowa 51301-3806

712 262-2825

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973806 4 GPS No. 7001 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 6 TWP 97 N RGE 38 W USGS QUAD MAP MAY CITY

TO REACH FROM _____

IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 270TH STREET (CLAY - DICKINSON COUNTY LINE)

AND 100TH AVENUE (CLAY - O'BRIEN COUNTY LINE).

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999791

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3926074.606

NORTHING (Y) 1198669.933

EASTING (X) 4418323.324

EASTING (X) 1346707.643

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1416.89

ELEVATION (METERS) 431.869

TIES

No. 1 - 36.8'

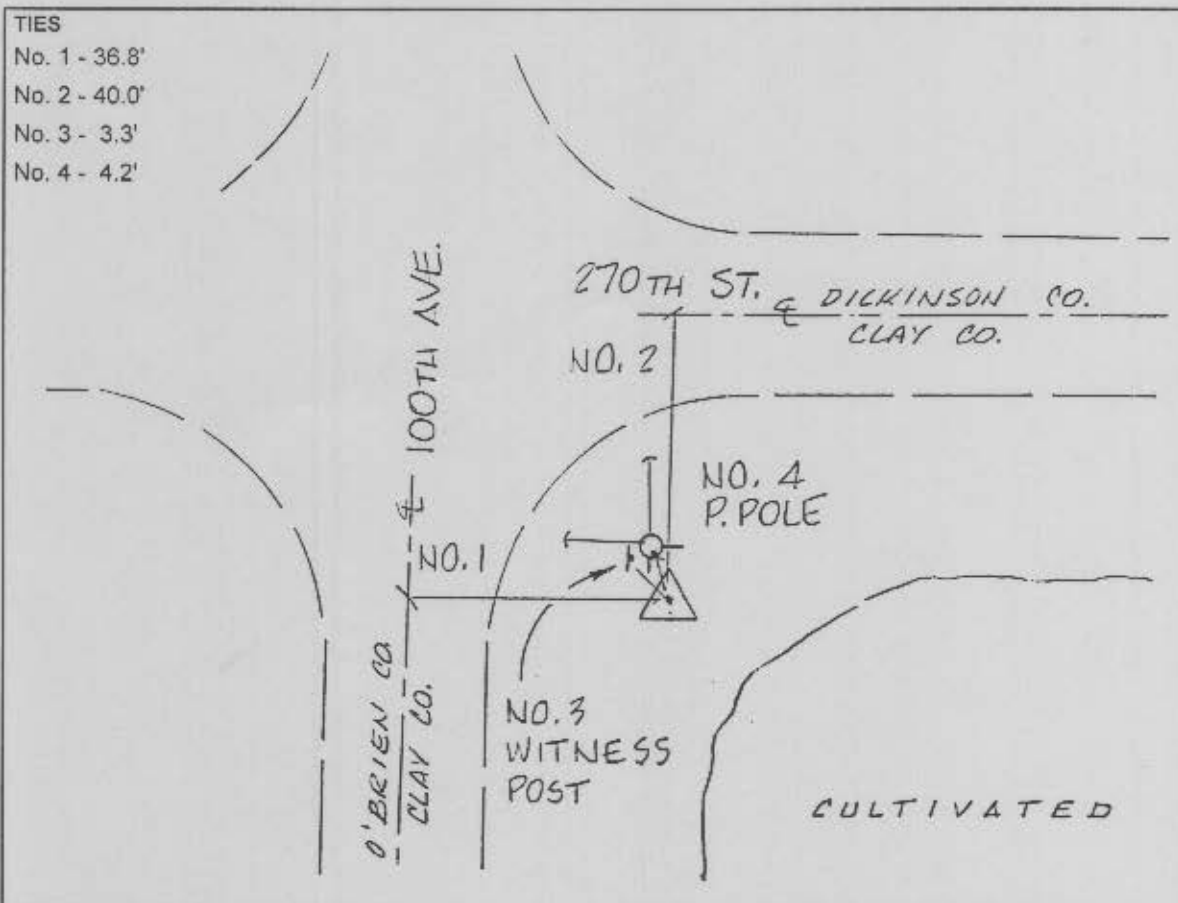
No. 2 - 40.0'

No. 3 - 3.3'

No. 4 - 4.2'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973818 3 GPS No. 7002 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 18 TWP 97 N RGE 38 W USGS QUAD MAP HARTLEY

TO REACH FROM THE INTERSECTION OF 300TH STREET AND 110TH AVENUE; GO WEST 1.0 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999066

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3910772.068

NORTHING (Y) 1192005.710

EASTING (X) 4417949.614

EASTING (X) 1346593.735

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1375.09

ELEVATION (METERS) 419.129

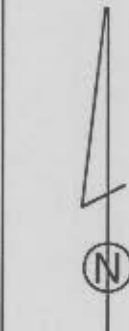
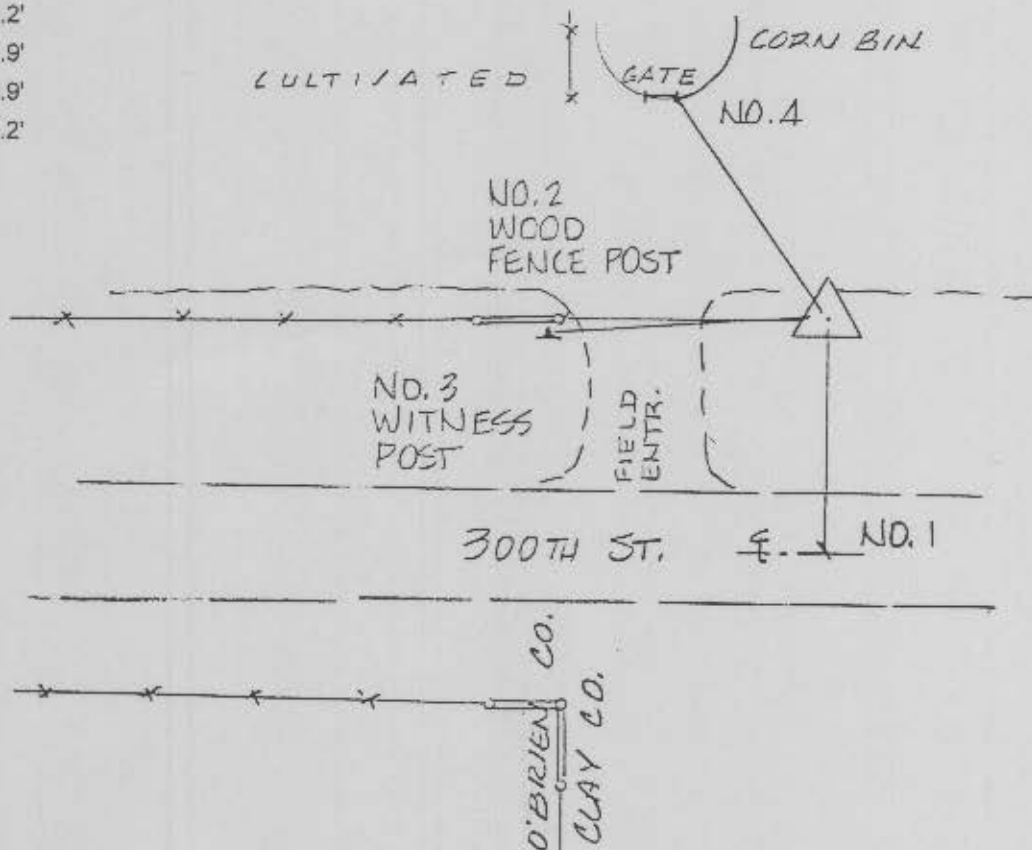
TIES

No. 1 - 43.2'

No. 2 - 32.9'

No. 3 - 33.9'

No. 4 - 55.2'



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963806 4 GPS No. 7003 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 6 TWP 96 N RGE 38 W USGS QUAD MAP HARTLEY

TO REACH FROM _____

IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 330TH STREET AND
100TH AVENUE (CLAY - O'BRIEN COUNTY LINE).

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99998372

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3894952.257

NORTHING (Y) 1187183.822

EASTING (X) 4417676.870

EASTING (X) 1346510.603

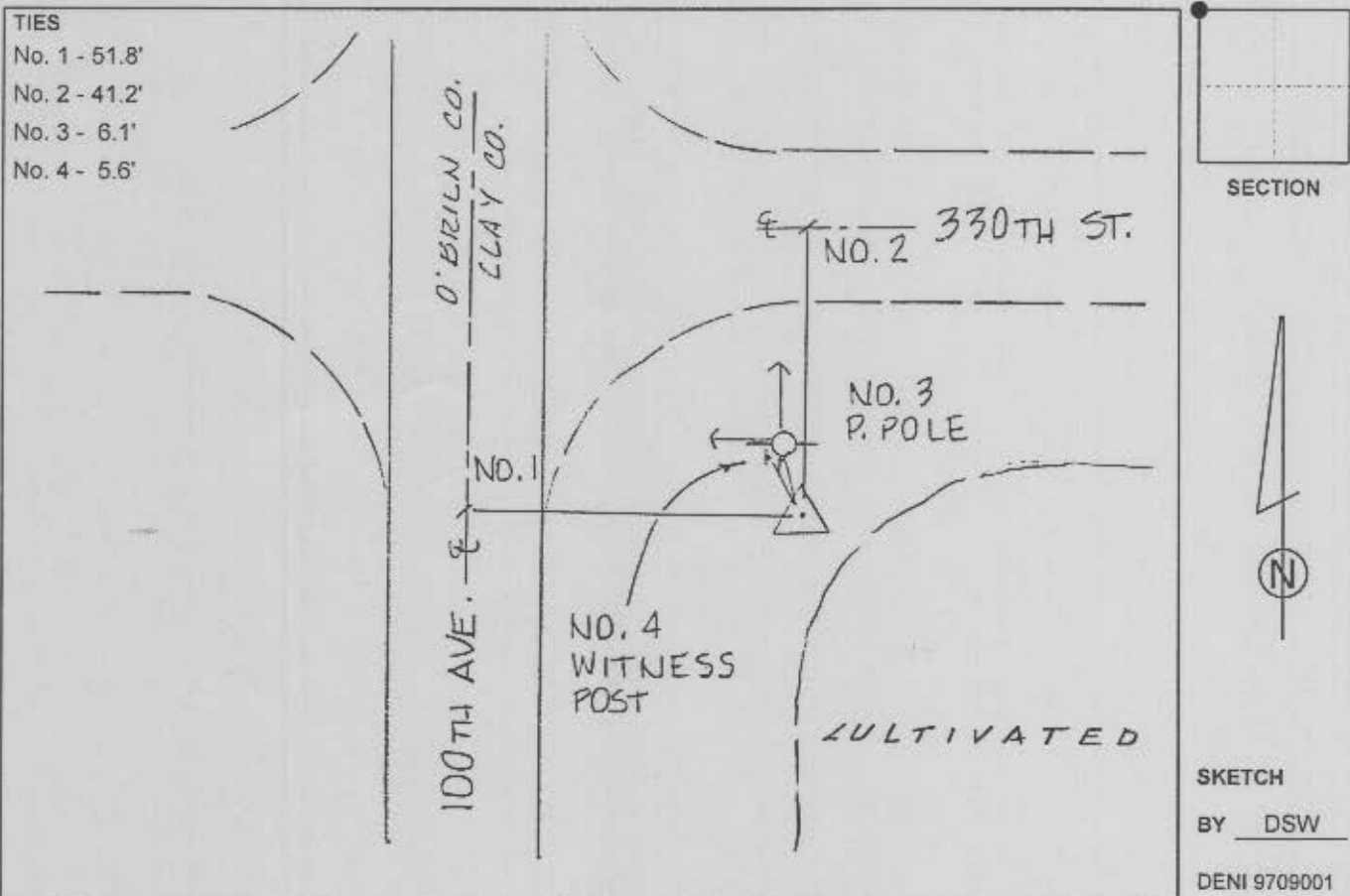
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1366.72

ELEVATION (METERS) 416.577

TIES

- No. 1 - 51.8'
- No. 2 - 41.2'
- No. 3 - 6.1'
- No. 4 - 5.6'



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963818 3 GPS No. 7004 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 18 TWP 96 N RGE 38 W USGS QUAD MAP HARTLEY
TO REACH FROM THE INTERSECTION OF 360TH STREET AND 100TH AVENUE (CLAY - O'BRIEN COUNTY LINE);
GO EAST 0.3 MILE TO MARK, SOUTHWEST OF EVERLY.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997755

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3879577.480

NORTHING (Y) 1182497.581

EASTING (X) 4418921.435

EASTING (X) 1346889.947

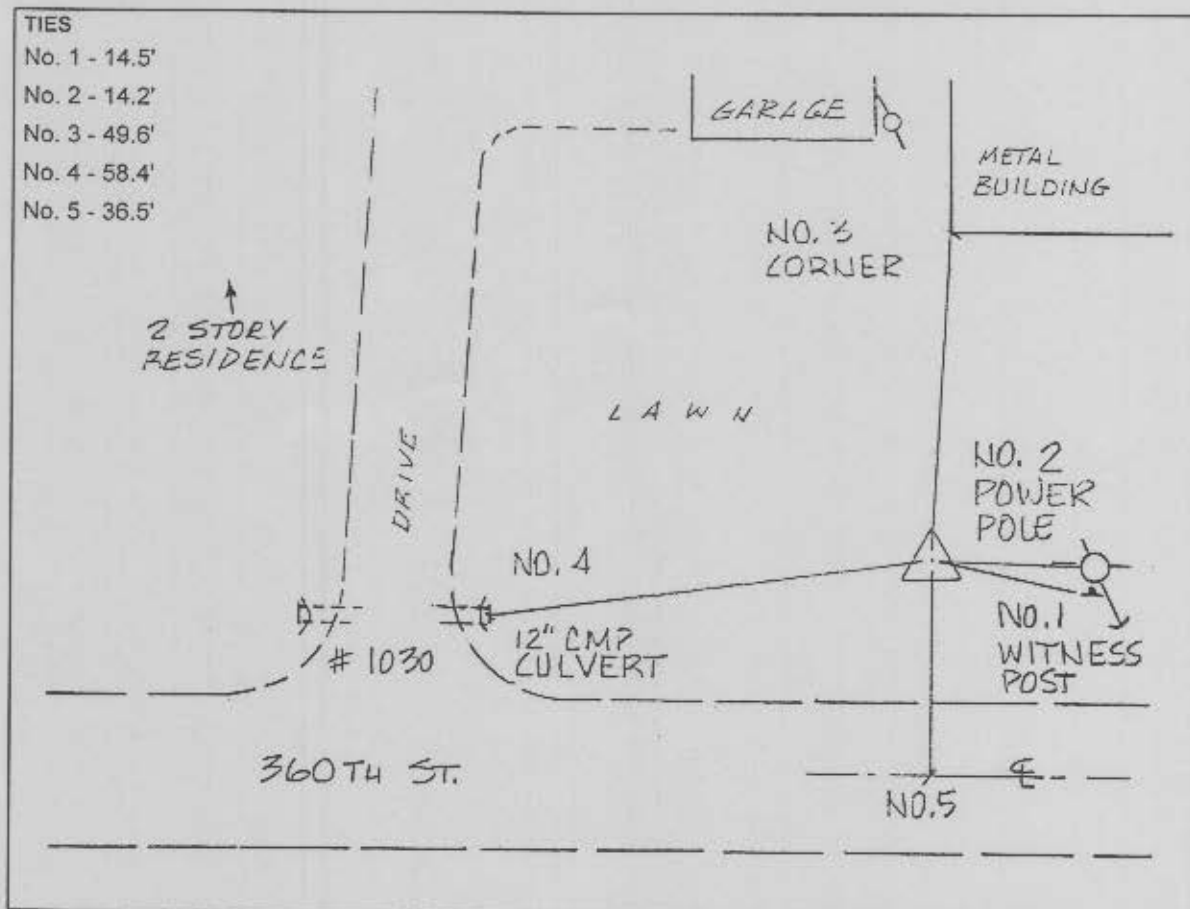
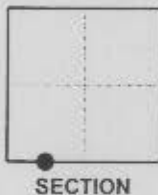
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1444.83

ELEVATION (METERS) 440.386

TIES

- No. 1 - 14.5'
- No. 2 - 14.2'
- No. 3 - 49.6'
- No. 4 - 58.4'
- No. 5 - 36.5'



SKETCH
BY DSW
DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963831 3 GPS No. 7005 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 31 TWP 96 N RGE 38 W USGS QUAD MAP HARTLEY SW

TO REACH FROM _____

IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF 390TH STREET AND

100TH AVENUE (CLAY - O'BRIEN COUNTY LINE).

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997178

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3863858.606

NORTHING (Y) 1177706.458

EASTING (X) 4416926.909

EASTING (X) 1346282.014

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1416.25

ELEVATION (METERS) 431.674

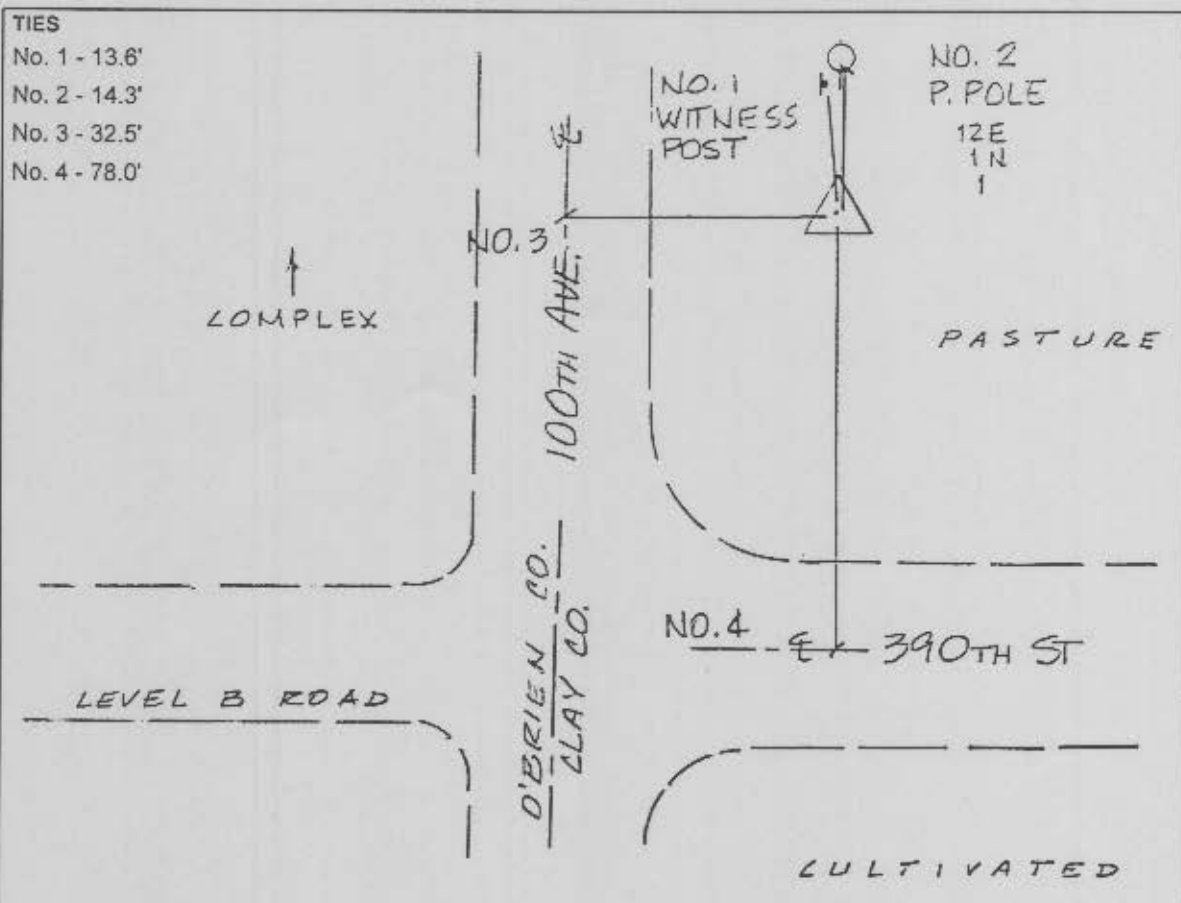
TIES

No. 1 - 13.6'

No. 2 - 14.3'

No. 3 - 32.5'

No. 4 - 78.0'



SECTION

SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953819 4 GPS No. 7006 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 19 TWP 95 N RGE 38 W USGS QUAD MAP HARTLEY SW

TO REACH FROM _____
IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 420TH STREET / COUNTY ROAD B46
AND 100TH AVENUE (CLAY - O'BRIEN COUNTY LINE).

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996639

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3847484.561

NORTHING (Y) 1172715.640

EASTING (X) 4416475.346

EASTING (X) 1346144.378

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1442.12

ELEVATION (METERS) 439.558

TIES

No. 1 - 30.0'

No. 2 - 38.7'

No. 3 - 5.5'

No. 4 - 2.5'

O'BRIEN CO.
CLAY CO.
100TH AVE.

NO. 2

420TH ST.

NO. 1

NO. 3
WOOD FENCE POST

NO. 4
WITNESS POST

CULTIVATED



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953831 3 GPS No. 7007 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 31 TWP 95 N RGE 38 W USGS QUAD MAP SUTHERLAND EAST
TO REACH FROM _____
IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 450TH STREET
AND 100TH AVENUE (CLAY - O'BRIEN COUNTY LINE).

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

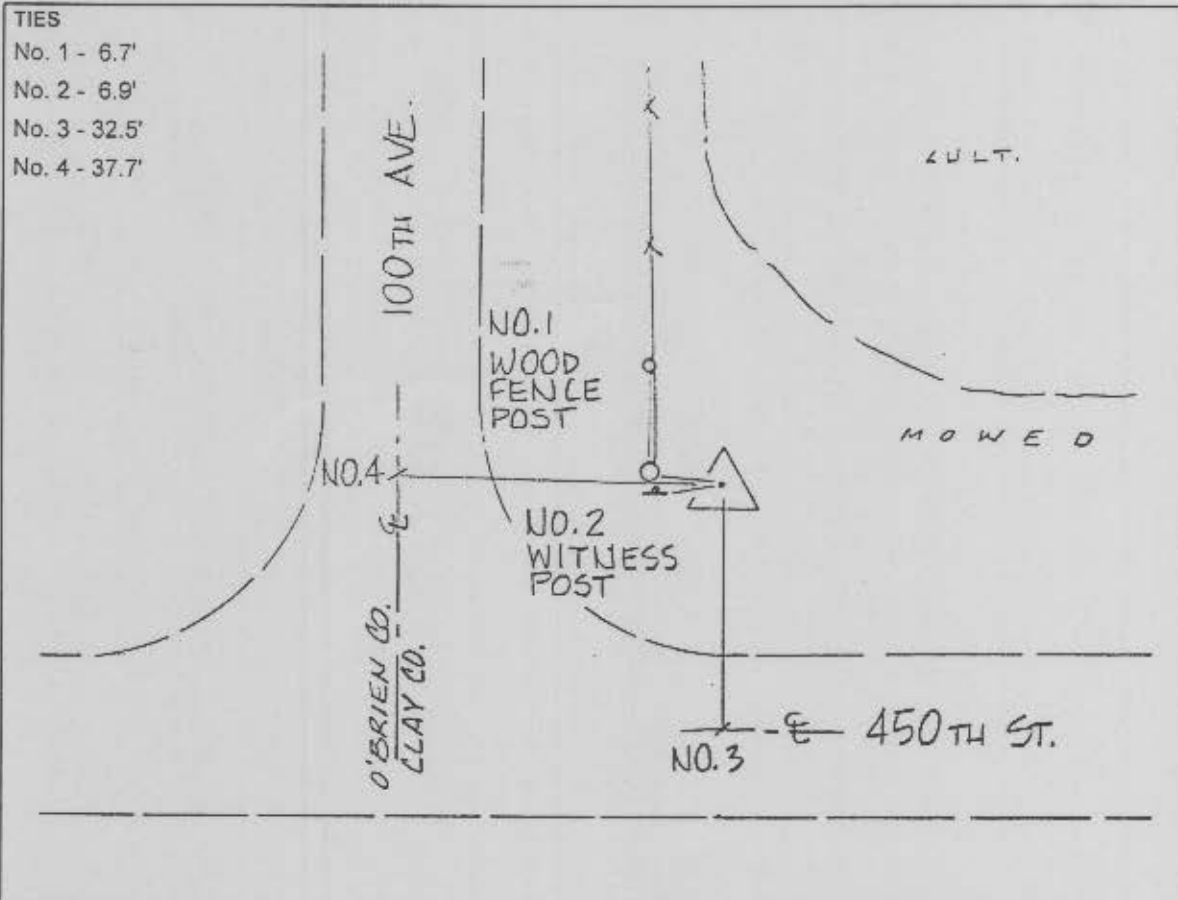
☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE	SCALE FACTOR: <u>0.99996178</u>
COORDINATES (US FEET)	COORDINATES (METERS)
NORTHING (Y) <u>3831748.904</u>	NORTHING (Y) <u>1167919.402</u>
EASTING (X) <u>4416034.384</u>	EASTING (X) <u>1346009.972</u>

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) <u>1418.53</u>	ELEVATION (METERS) <u>432.370</u>
------------------------------------	-----------------------------------



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943818 3 GPS No. 7008 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 18 TWP 94 N RGE 38 W USGS QUAD MAP SUTHERLAND EAST
TO REACH FROM THE INTERSECTION OF 480TH STREET AND 110TH AVENUE; GO WEST 0.5 MILE TO
105TH STREET; THEN NORTH 0.1 MILE TO DRIVE WEST; THEN WEST 900 FEET, MORE OR LESS, TO MARK,
AT BOB ORTHMANN RESIDENCE WITH PERMISSION.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995795

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3816822.578

NORTHING (Y) 1163369.849

EASTING (X) 4417762.312

EASTING (X) 1346536.646

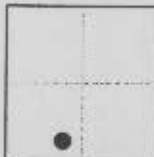
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1394.09

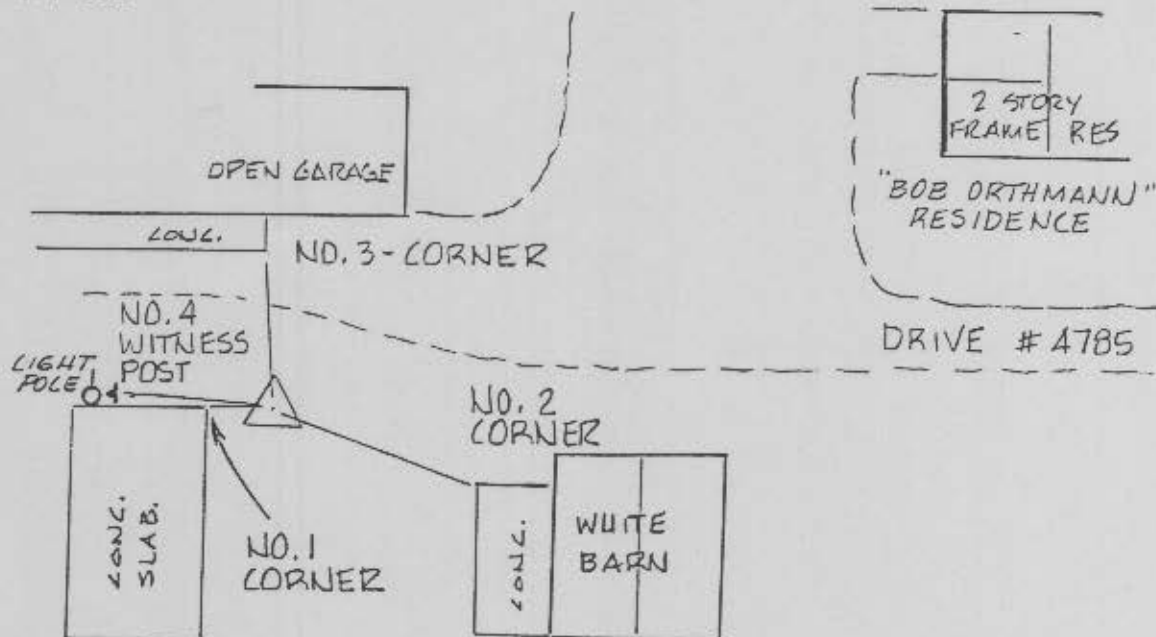
ELEVATION (METERS) 424.919

TIES

- No. 1 - 12.5'
- No. 2 - 41.7'
- No. 3 - 40.4'
- No. 4 - 36.0'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943831 3 GPS No. 7009 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 31 TWP 94 N RGE 38 W USGS QUAD MAP SUTHERLAND EAST

TO REACH FROM _____

NEAR THE SOUTHWEST CORNER OF CLAY COUNTY; NORTHEAST OF THE INTERSECTION OF THE
CENTER LINES OF 510TH STREET AND 100TH AVENUE EXTENDED AND SOUTHWEST OF ROAD.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE SCALE FACTOR: 0.99995429

COORDINATES (US FEET) COORDINATES (METERS)

NORTHING (Y) 3800284.847 NORTHING (Y) 1158329.138

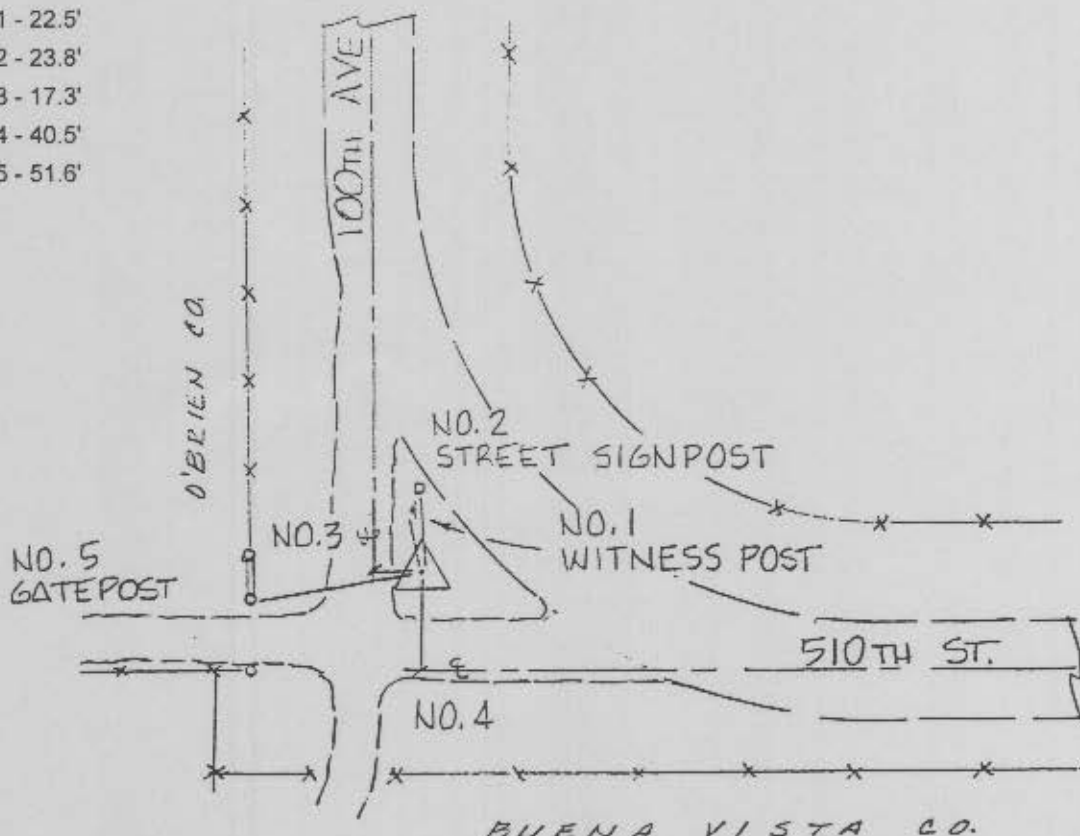
EASTING (X) 4415460.936 EASTING (X) 1345835.185

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1374.69 ELEVATION (METERS) 419.007

TIES

- No. 1 - 22.5'
- No. 2 - 23.8'
- No. 3 - 17.3'
- No. 4 - 40.5'
- No. 5 - 51.6'



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943834 3 GPS No. 7010 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 34 TWP 94 N RGE 38 W USGS QUAD MAP PETERSON
TO REACH FROM 125TH AVENUE BRIDGE OVER LITTLE SIOUX RIVER IN PETERSON; GO SOUTHERLY
AND EASTERLY ON 125TH AVENUE FOR 0.8 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995435

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3800227.113

NORTHING (Y) 1158311.541

EASTING (X) 4431573.407

EASTING (X) 1350746.276

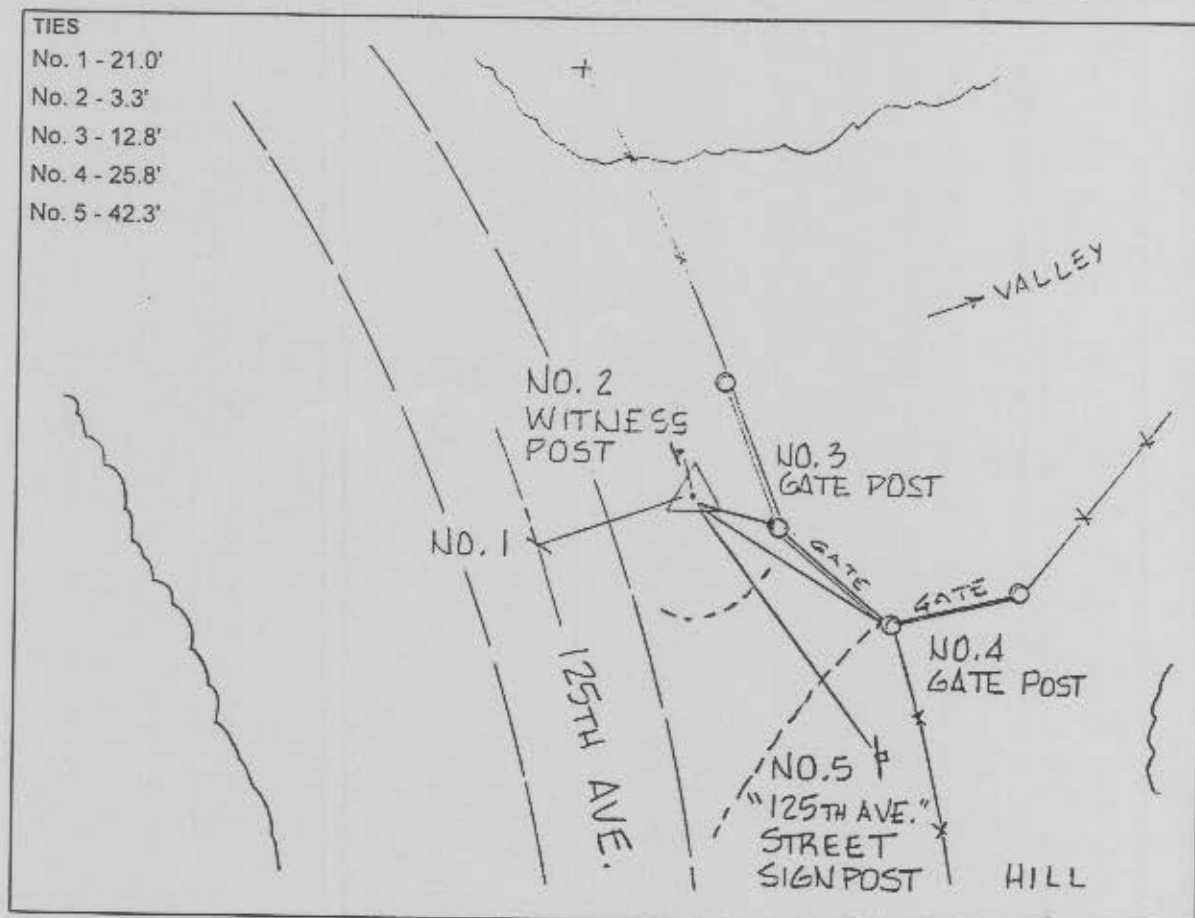
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1308.87

ELEVATION (METERS) 398.945

TIES

- No. 1 - 21.0'
- No. 2 - 3.3'
- No. 3 - 12.8'
- No. 4 - 25.8'
- No. 5 - 42.3'



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943816 2 GPS No. 7011 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 16 TWP 94 N RGE 38 W USGS QUAD MAP PETERSON

TO REACH FROM _____

IN THE EAST QUADRANT OF THE INTERSECTION OF 480TH STREET / COUNTY ROAD B61

AND 130TH AVENUE / COUNTY ROAD M27, NORTH OF PETERSON.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995788

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3816216.962

NORTHING (Y) 1163185.256

EASTING (X) 4431469.828

EASTING (X) 1350714.705

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1409.79

ELEVATION (METERS) 429.706

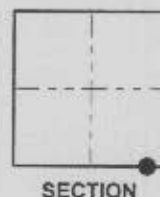
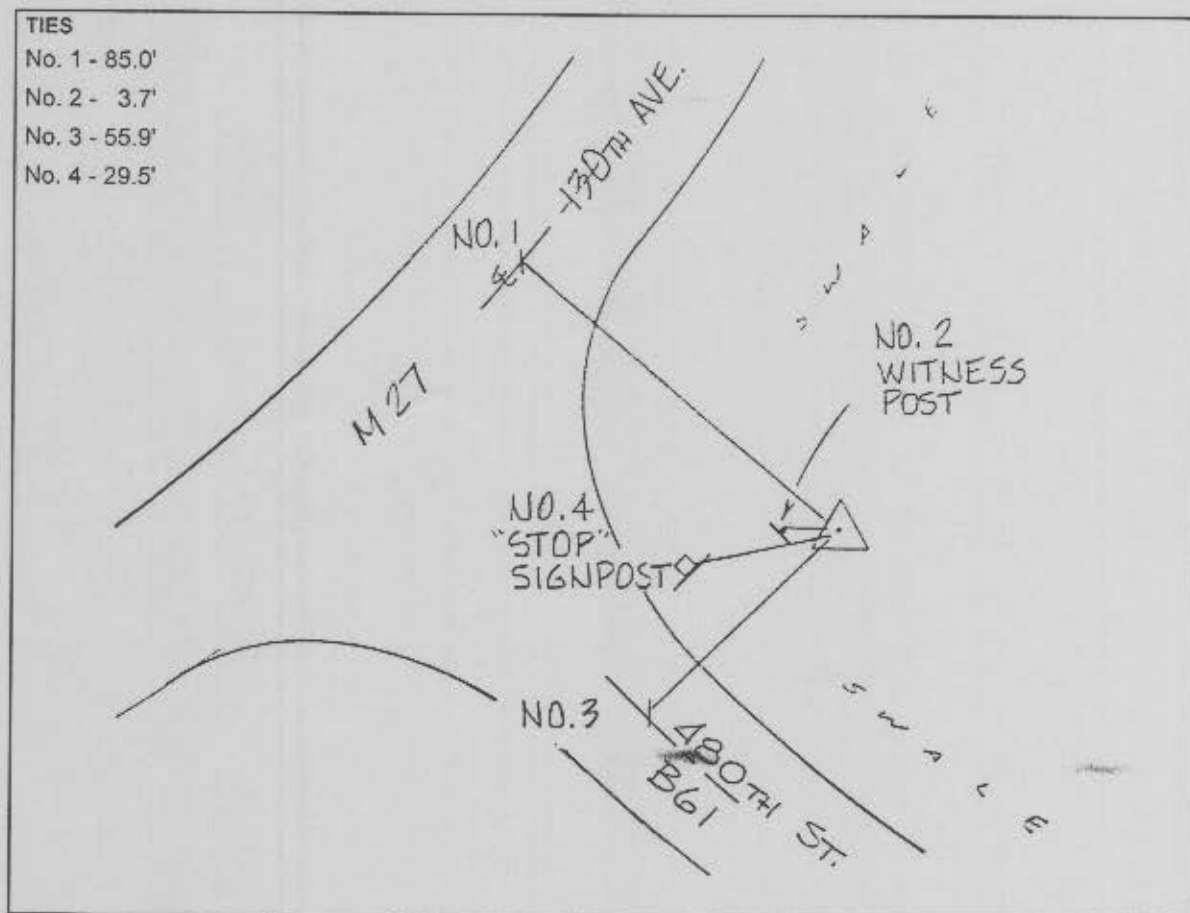
TIES

No. 1 - 85.0'

No. 2 - 3.7'

No. 3 - 55.9'

No. 4 - 29.5'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943803 4 GPS No. 7012 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 3 TWP 94 N RGE 38 W USGS QUAD MAP PETERSON

TO REACH FROM _____

IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 450TH STREET

AND 130TH AVENUE / COUNTY ROAD M27.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996176

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3831298.480

NORTHING (Y) 1167782.112

EASTING (X) 4431998.495

EASTING (X) 1350875.843

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1427.61

ELEVATION (METERS) 435.135

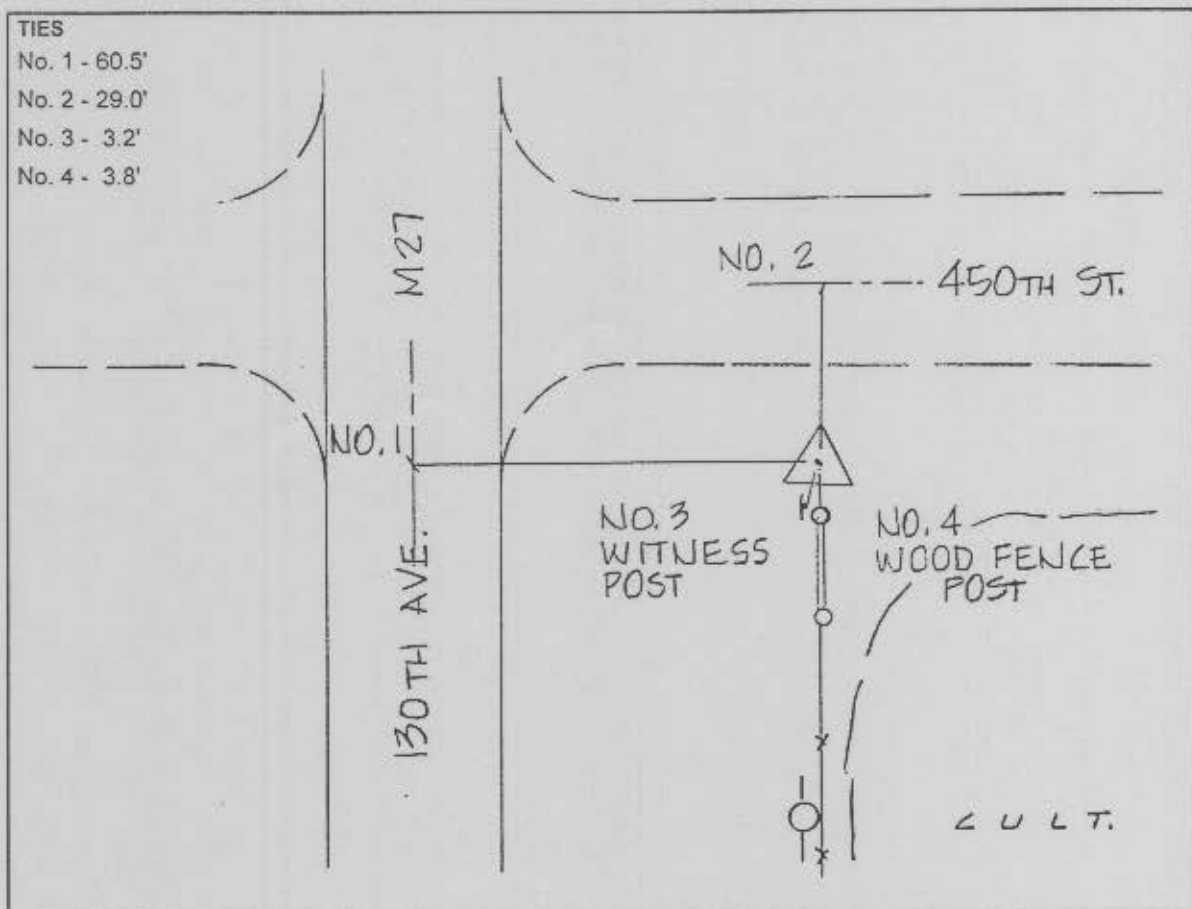
TIES

No. 1 - 60.5'

No. 2 - 29.0'

No. 3 - 3.2'

No. 4 - 3.8'



SECTION

SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953816 2 GPS No. 7013 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 16 TWP 95 N RGE 38 W USGS QUAD MAP ROYAL

TO REACH FROM _____

IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF 420TH STREET

AND 130TH AVENUE / COUNTY ROAD M27, SOUTHWEST OF ROYAL.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996645

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3847334.312

NORTHING (Y) 1172669.844

EASTING (X) 4432356.978

EASTING (X) 1350985.109

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1404.74

ELEVATION (METERS) 428.167

TIES

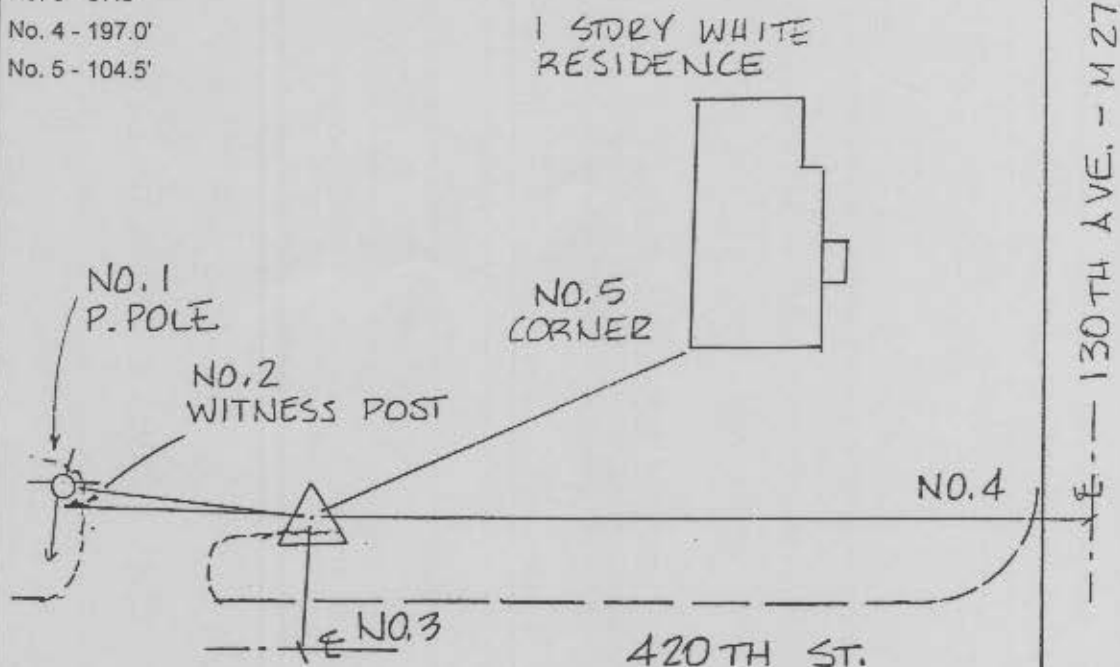
No. 1 - 46.2'

No. 2 - 45.3'

No. 3 - 37.0'

No. 4 - 197.0'

No. 5 - 104.5'



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963833 2 GPS No. 7014 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 33 TWP 96 N RGE 38 W USGS QUAD MAP ROYAL

TO REACH FROM _____

IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF 390TH STREET

AND 130TH AVENUE / COUNTY ROAD M27, NORTHWEST OF ROYAL.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997174

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3863385.968

NORTHING (Y) 1177562.398

EASTING (X) 4432660.298

EASTING (X) 1351077.561

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1431.23

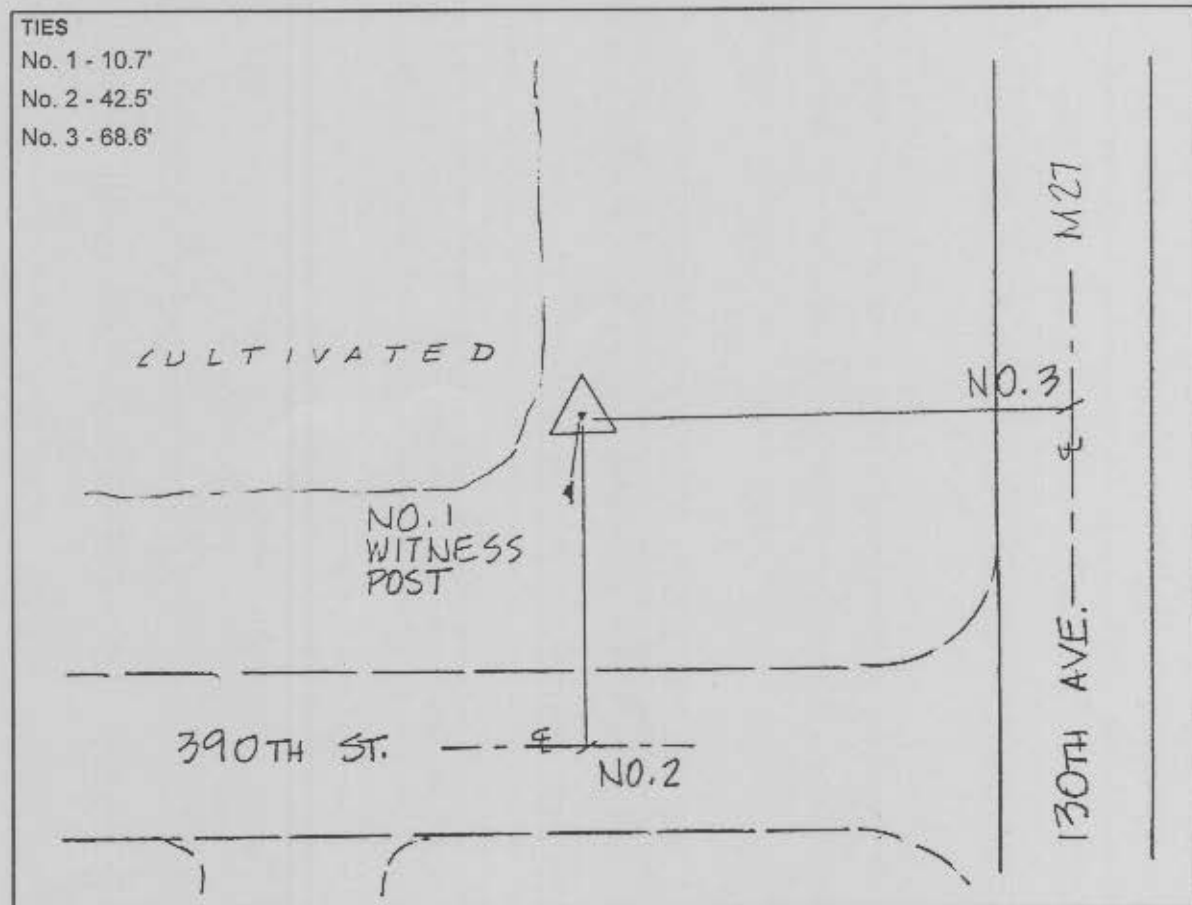
ELEVATION (METERS) 436.239

TIES

No. 1 - 10.7'

No. 2 - 42.5'

No. 3 - 68.6'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963822 4 GPS No. 7015 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 22 TWP 96 N RGE 38 W USGS QUAD MAP EVERLY

TO REACH FROM _____

IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF 360TH STREET

AND 130TH AVENUE / COUNTY ROAD M27, SOUTH OF EVERLY.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997748

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3879063.556

NORTHING (Y) 1182340.937

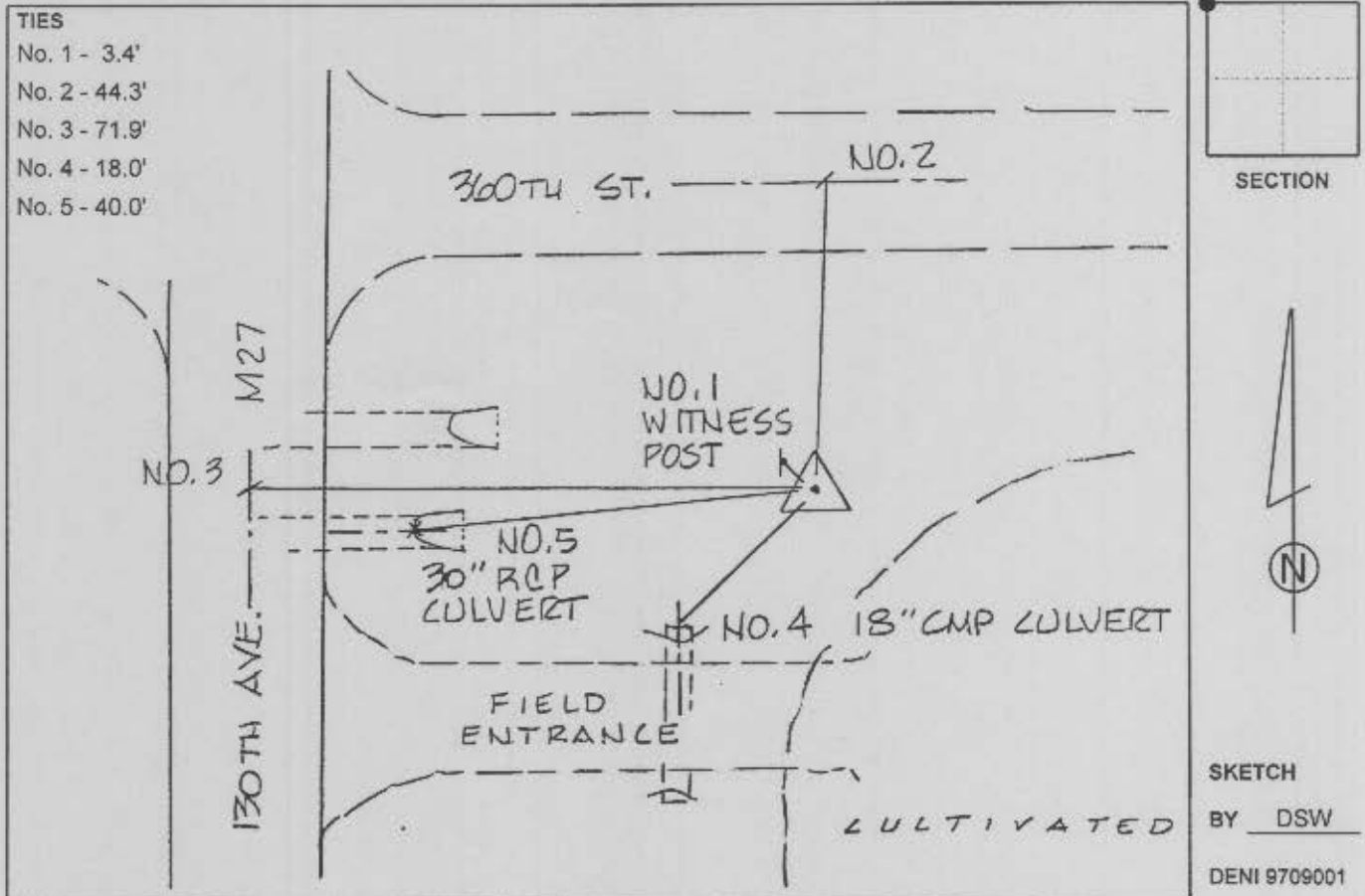
EASTING (X) 4433185.940

EASTING (X) 1351237.777

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1395.86

ELEVATION (METERS) 425.458



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963803 4 GPS No. 7016 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 3 TWP 96 N RGE 38 W USGS QUAD MAP EVERLY

TO REACH FROM _____

IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 330TH STREET

AND 130TH AVENUE / COUNTY ROAD M27, IN EVERLY.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99998365

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3894431.710

NORTHING (Y) 1187025.159

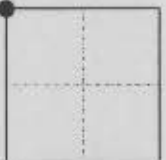
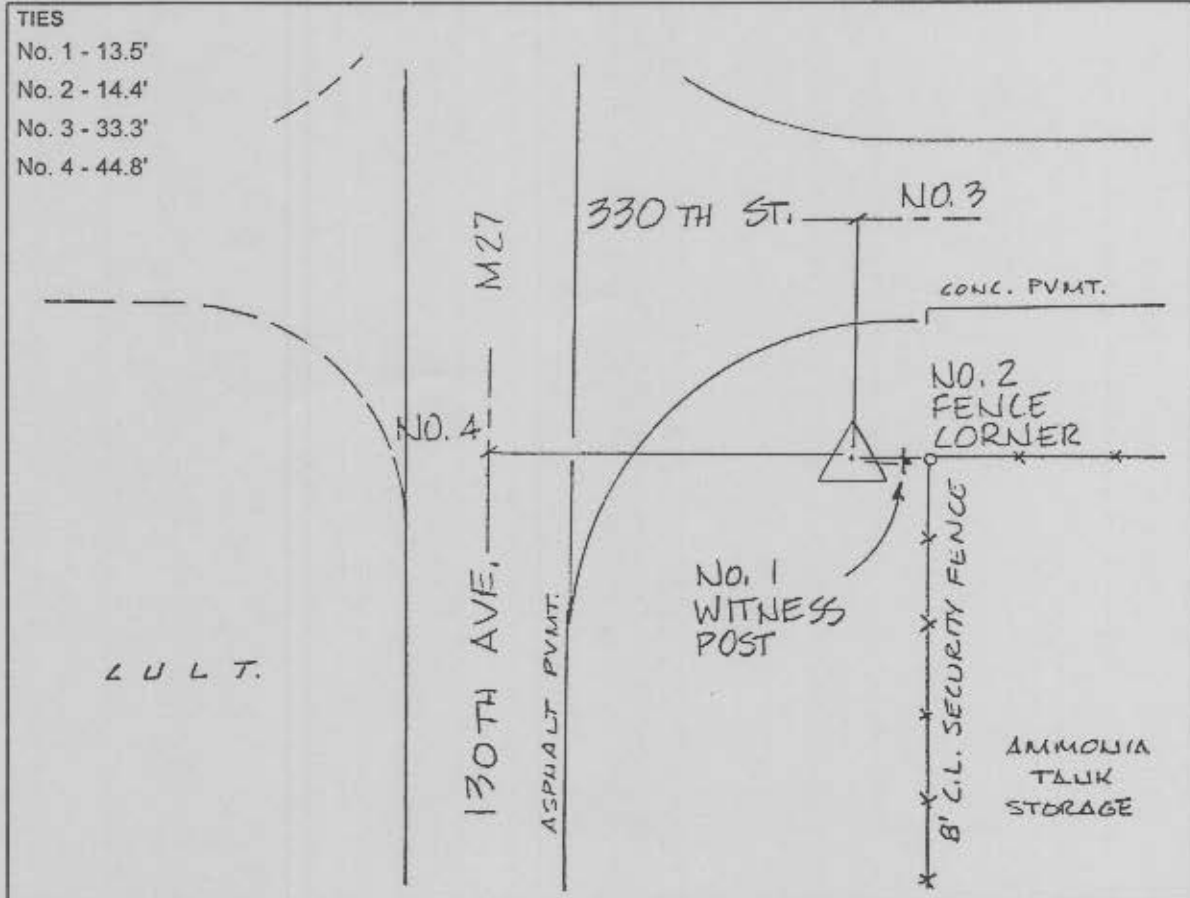
EASTING (X) 4433456.301

EASTING (X) 1351320.183

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1364.45

ELEVATION (METERS) 415.886



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973822 4 GPS No. 7017 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 22 TWP 97 N RGE 38 W USGS QUAD MAP EVERLY

TO REACH FROM _____

IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 300TH STREET AND

130TH AVENUE / COUNTY ROAD M27; ON THE PROPERTY OF K. THIESSEN, WITH PERMISSION.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999030

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3909635.024

NORTHING (Y) 1191659.139

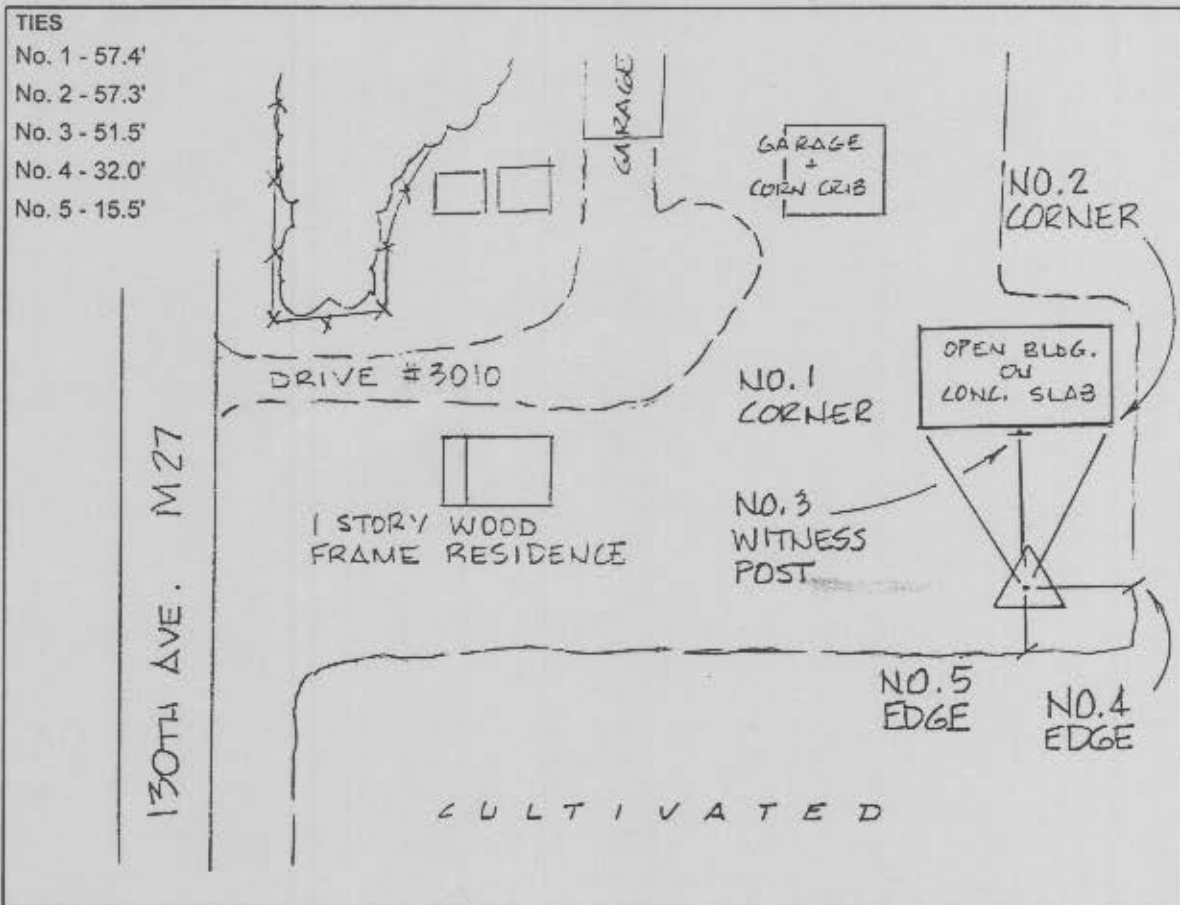
EASTING (X) 4434287.619

EASTING (X) 1351573.569

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1406.86

ELEVATION (METERS) 428.813



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973804 1 GPS No. 7018 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 4 TWP 97 N RGE 38 W USGS QUAD MAP LAKE PARK SE
TO REACH FROM THE INTERSECTION OF 270TH STREET (CLAY - DICKINSON COUNTY LINE) AND
130TH AVENUE / COUNTY ROAD M27; GO WEST 0.1 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

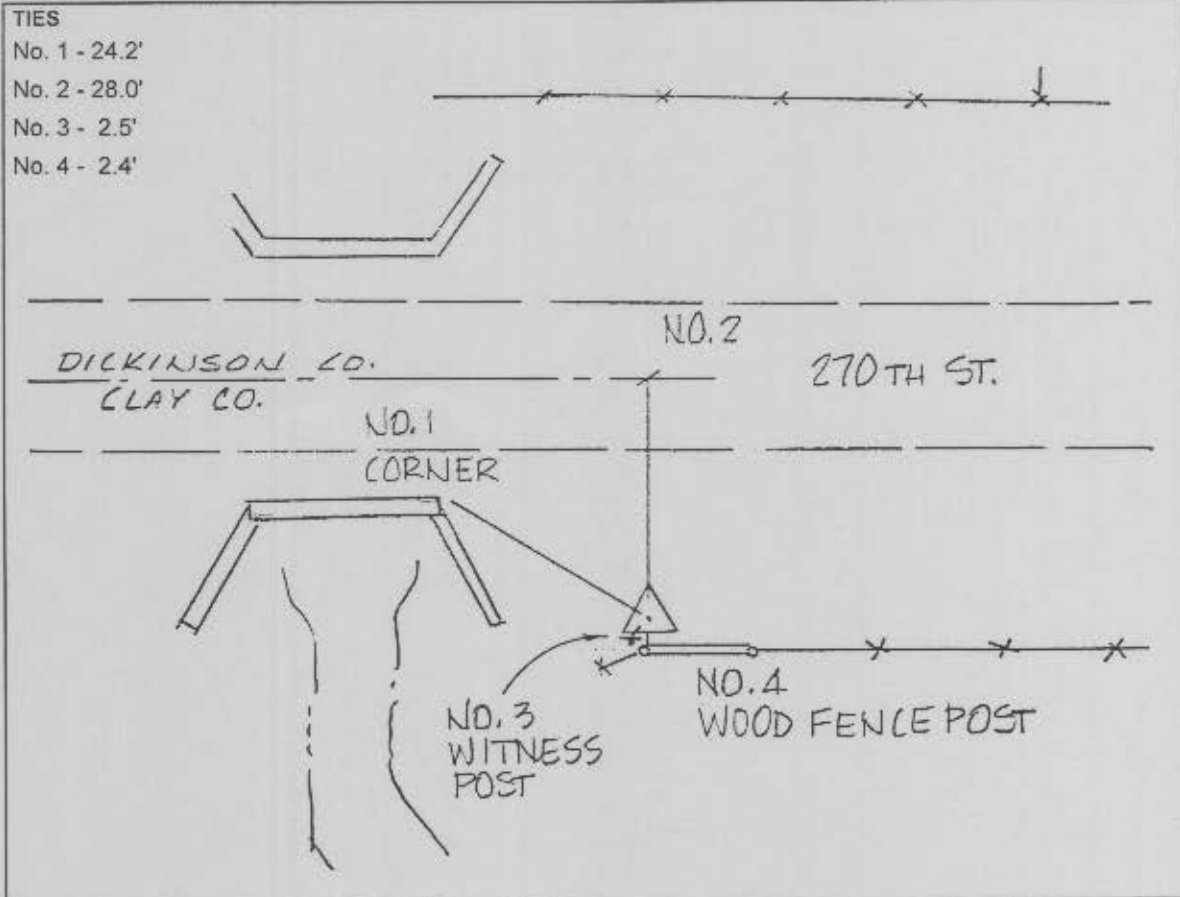
☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE	SCALE FACTOR: <u>0.99999793</u>
COORDINATES (US FEET)	COORDINATES (METERS)
NORTHING (Y) <u>3925783.013</u>	NORTHING (Y) <u>1196581.056</u>
EASTING (X) <u>4433624.311</u>	EASTING (X) <u>1351371.393</u>

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) <u>1383.25</u>	ELEVATION (METERS) <u>421.616</u>
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SKETCH
BY DSW
DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973706 4 GPS No. 7019 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 6 TWP 97 N RGE 37 W USGS QUAD MAP LAKE PARK SE
TO REACH FROM _____
IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 270TH STREET (CLAY - DICKINSON COUNTY LINE)
AND 160TH AVENUE / COUNTY ROAD M36.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

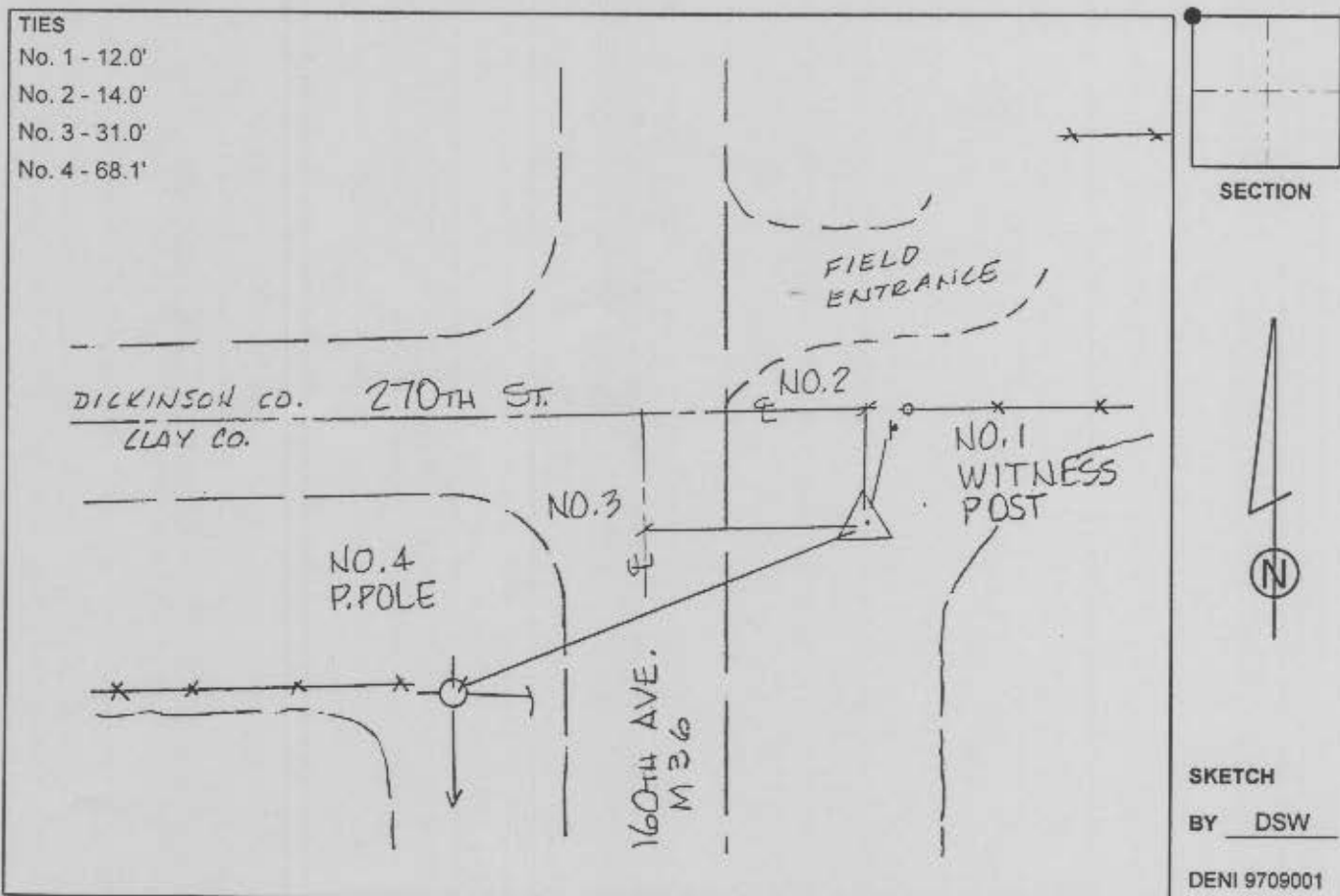
☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE	SCALE FACTOR: <u>0.99999795</u>
COORDINATES (US FEET)	COORDINATES (METERS)
NORTHING (Y) <u>3925469.856</u>	NORTHING (Y) <u>1196485.605</u>
EASTING (X) <u>4449963.795</u>	EASTING (X) <u>1356351.677</u>

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) <u>1375.26</u>	ELEVATION (METERS) <u>419.180</u>
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GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION	973813 2	GPS No.	7020	COUNTY	CLAY	STATE	IOWA
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LOCATED IN SECTION	13	TWP	97 N	RGE	38 W	USGS QUAD MAP	EVERLY
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TO REACH FROM THE INTERSECTION OF 300TH STREET AND 160TH AVENUE / COUNTY ROAD M36;
GO NORTH 300 FEET, MORE OR LESS, TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE SCALE FACTOR: 0.99999072

COORDINATES (US FEET)	COORDINATES (METERS)
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NORTHING (Y)	3910219.192	NORTHING (Y)	1191837.193
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EASTING (X)	4449571.929	EASTING (X)	1356232.236
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VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET)	1359.75	ELEVATION (METERS)	414.453
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TIES

No. 1 - 10.4'

No. 2 - 4,5'

No. 3 - 45.7'

No. 4 - 4.0'

MODIFIED

NO. 1 —
GATE POST

NO. 2
WITNESS POST

NO. 3

NO.4
FENCE

CLAY CO. RURAL WATER SYSTEM

MAIN
BLDG.

DRIVE

160TH AVE. - M36

SECTION

SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973813 2 GPS No. 7020 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 13 TWP 97 N RGE 38 W USGS QUAD MAP EVERLY
TO REACH FROM THE INTERSECTION OF 300TH STREET AND 160TH AVENUE / COUNTY ROAD M36;
GO NORTH 300 FEET, MORE OR LESS, TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999072

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3910219.192

NORTHING (Y) 1191837.193

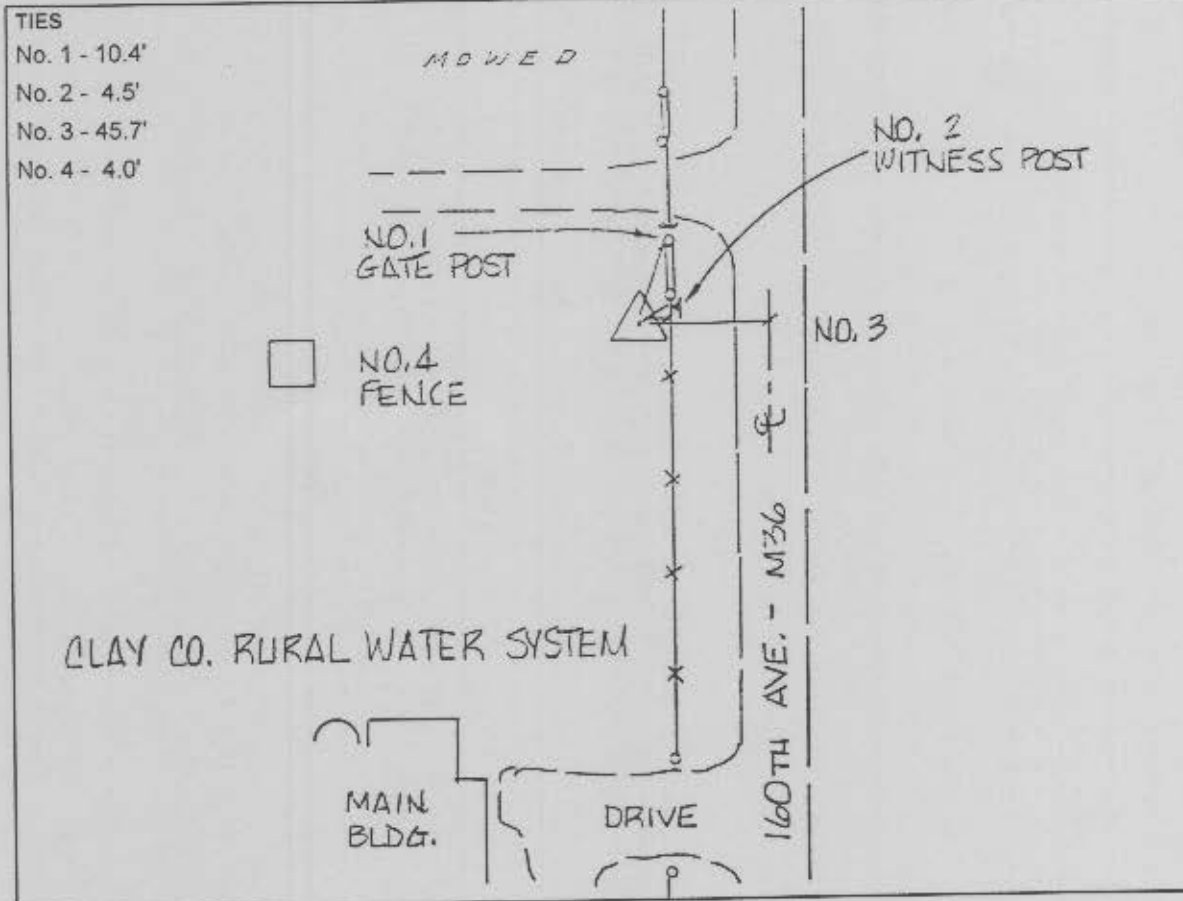
EASTING (X) 4449571.929

EASTING (X) 1356232.236

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1359.75

ELEVATION (METERS) 414.453



SKETCH
BY DSW
DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973731 3 GPS No. 7021 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 31 TWP 97 N RGE 37 W USGS QUAD MAP EVERLY
TO REACH FROM THE INTERSECTION OF 330TH STREET AND 160TH AVENUE / COUNTY ROAD M36;
GO EAST 0.15 MILE TO MARK, EAST OF EVERLY.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99998364

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3894041.089

NORTHING (Y) 1186906.098

EASTING (X) 4449970.989

EASTING (X) 1356353.870

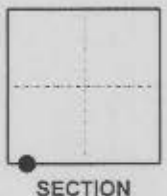
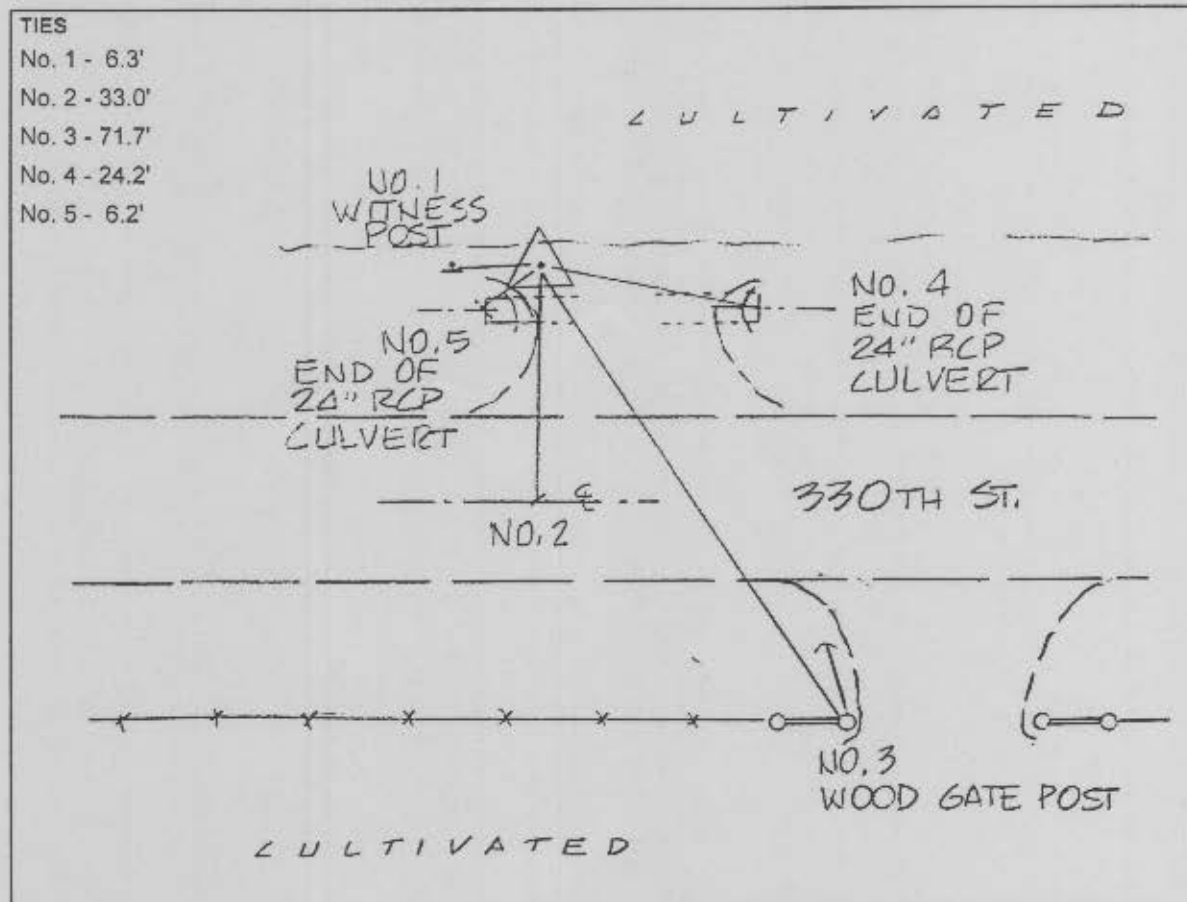
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1341.98

ELEVATION (METERS) 409.035

TIES

- No. 1 - 6.3'
- No. 2 - 33.0'
- No. 3 - 71.7'
- No. 4 - 24.2'
- No. 5 - 6.2'



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963719 4 GPS No. 7022 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 19 TWP 97 N RGE 37 W USGS QUAD MAP EVERLY

TO REACH FROM _____

IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 360TH STREET

AND 160TH AVENUE / COUNTY ROAD M36.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997742

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3878568.005

NORTHING (Y)	1182189.892
--------------	-------------

EASTING (X) 4448971.500

EASTING (X) 1356049.225

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET)	1390.96
---------------------	---------

ELEVATION (METERS)	423.966
--------------------	---------

TIES

No. 1 - 42,3'

No. 2 - 2.2'

No. 3 - 3.1'

No. 4 - 90.0'

No. 5 - 55.5'

NO. 1 — 160TH AVE. - M36

NO. 4

360TH ST.

NO. 5
P. POLE

NO. 2
WOOD FENCE POST

No. 3
WITNESS POST

SECTION

SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953706 4 GPS No. 7023 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 6 TWP 95 N RGE 37 W USGS QUAD MAP ROYAL

TO REACH FROM _____

IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 390TH STREET

AND 160TH AVENUE / COUNTY ROAD M36, NORTHEAST OF ROYAL.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997169

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3862916.804

NORTHING (Y) 1177419.397

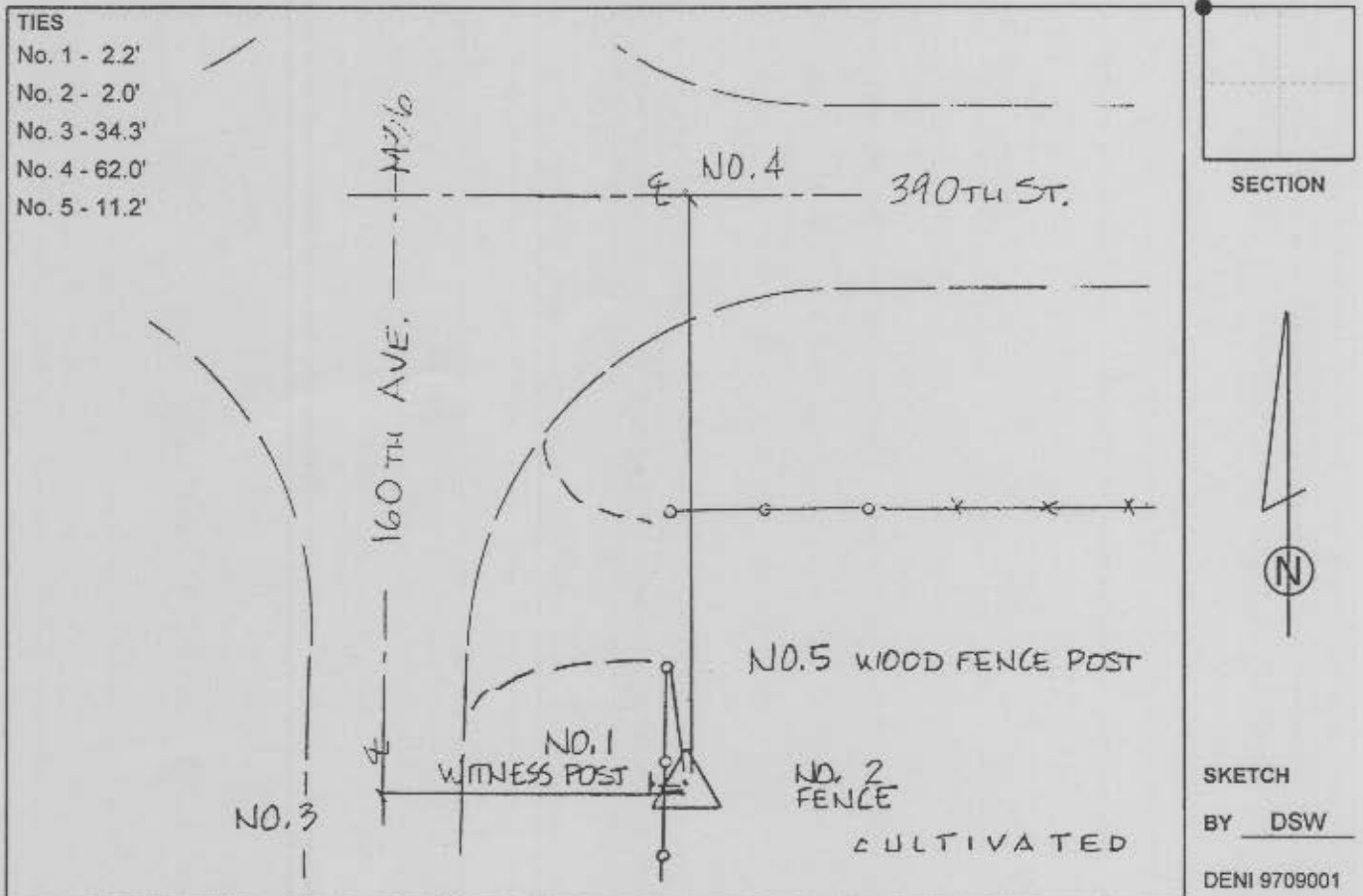
EASTING (X) 4448587.374

EASTING (X) 1355932.144

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1398.13

ELEVATION (METERS) 426.151



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953813 2 GPS No. 7024 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 13 TWP 95 N RGE 38 W USGS QUAD MAP ROYAL

TO REACH FROM _____

IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF 420TH STREET

AND 160TH AVENUE / COUNTY ROAD M36, SOUTHEAST OF ROYAL.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996639

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3846825.263

NORTHING (Y) 1172514.685

EASTING (X) 4448092.873

EASTING (X) 1355781.419

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1411.81

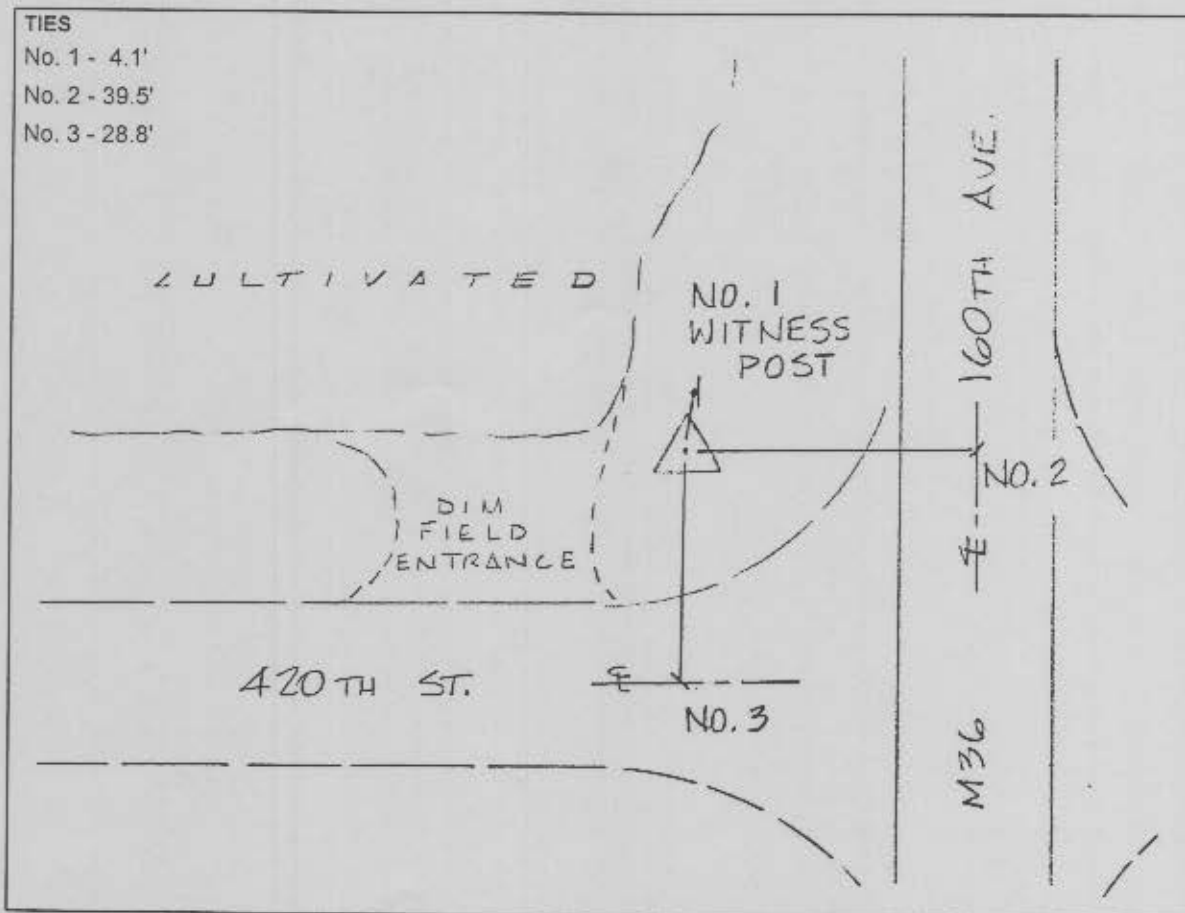
ELEVATION (METERS) 430.322

TIES

No. 1 - 4.1'

No. 2 - 39.5'

No. 3 - 28.8'



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953836 2 GPS No. 7025 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 36 TWP 95 N RGE 38 W USGS QUAD MAP PETERSON
TO REACH FROM THE INTERSECTION OF 450TH STREET AND 160TH AVENUE; GO WEST 0.2 MILE TO
WESTERLY DRIVE FARM COMPLEX AND MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

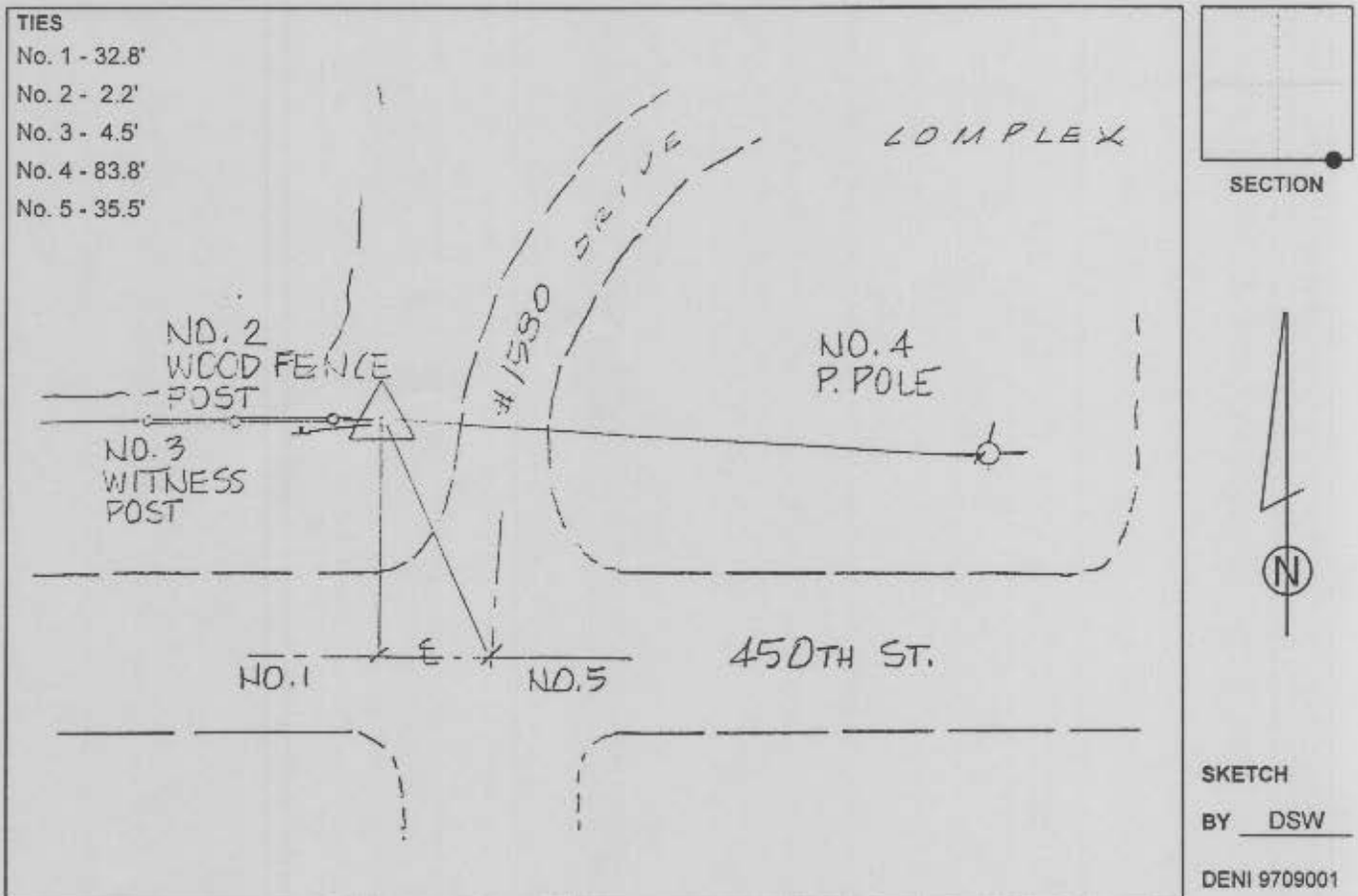
☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE	SCALE FACTOR: <u>0.99996176</u>
COORDINATES (US FEET)	COORDINATES (METERS)
NORTHING (Y) <u>3831015.985</u>	NORTHING (Y) <u>1167696.008</u>
EASTING (X) <u>4446808.860</u>	EASTING (X) <u>1355390.051</u>

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) <u>1400.36</u>	ELEVATION (METERS) <u>426.832</u>
------------------------------------	-----------------------------------



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943718 3 GPS No. 7026 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 18 TWP 94 N RGE 37 W USGS QUAD MAP PETERSON
TO REACH FROM THE INTERSECTION OF 480TH STREET / COUNTY ROAD B61 AND 160TH AVENUE;
GO EAST 0.1 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995779

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3815502.658

NORTHING (Y) 1162967.536

EASTING (X) 4448077.777

EASTING (X) 1355776.818

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1422.93

ELEVATION (METERS) 433.710

TIES

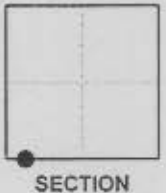
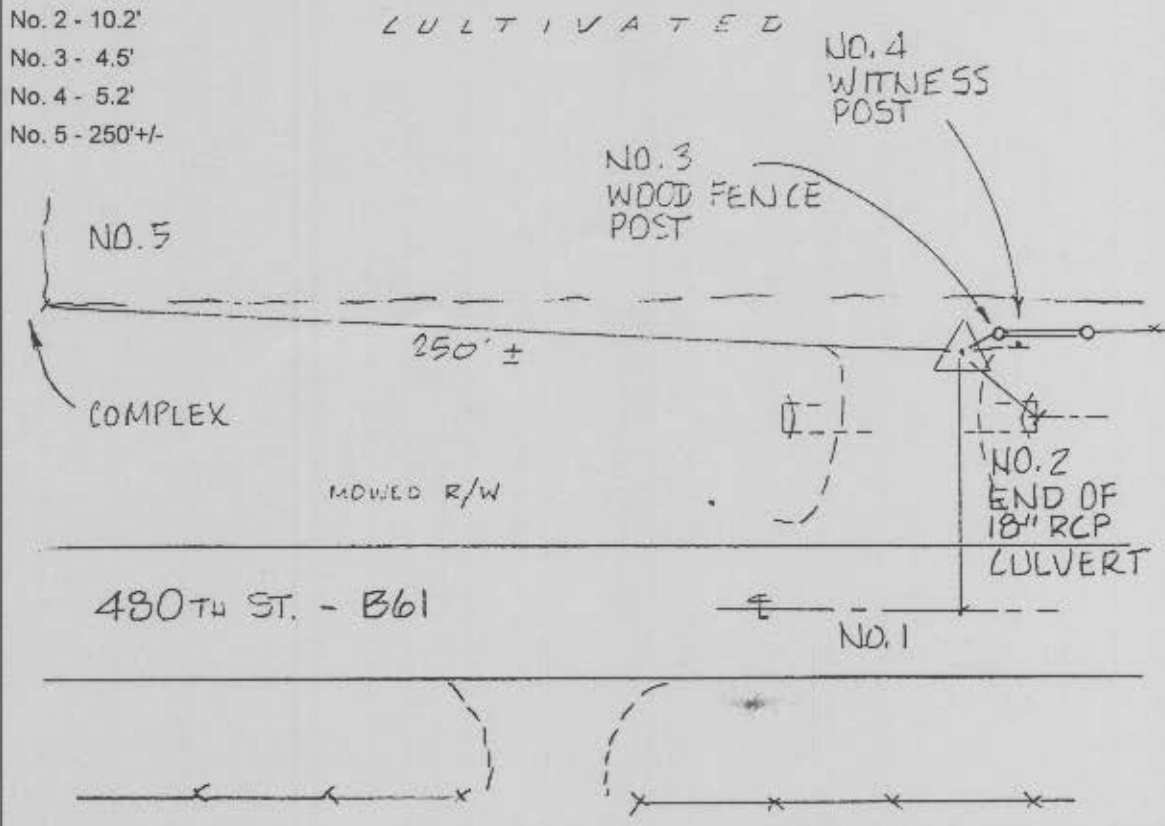
No. 1 - 42.7'

No. 2 - 10.2'

No. 3 - 4.5'

No. 4 - 5.2'

No. 5 - 250' +/-



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943836 2 GPS No. 7027 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 36 TWP 94 N RGE 38 W USGS QUAD MAP PETERSON

TO REACH FROM _____

AT THE DOGLEG OF 510TH STREET (CLAY - BUENA VISTA COUNTY LINE) TO THE EAST

AND 160TH AVENUE TO THE NORTH.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995430

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3799684.413

NORTHING (Y) 1158146.125

EASTING (X) 4447146.608

EASTING (X) 1355492.997

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1388.81

ELEVATION (METERS) 423.310

TIES

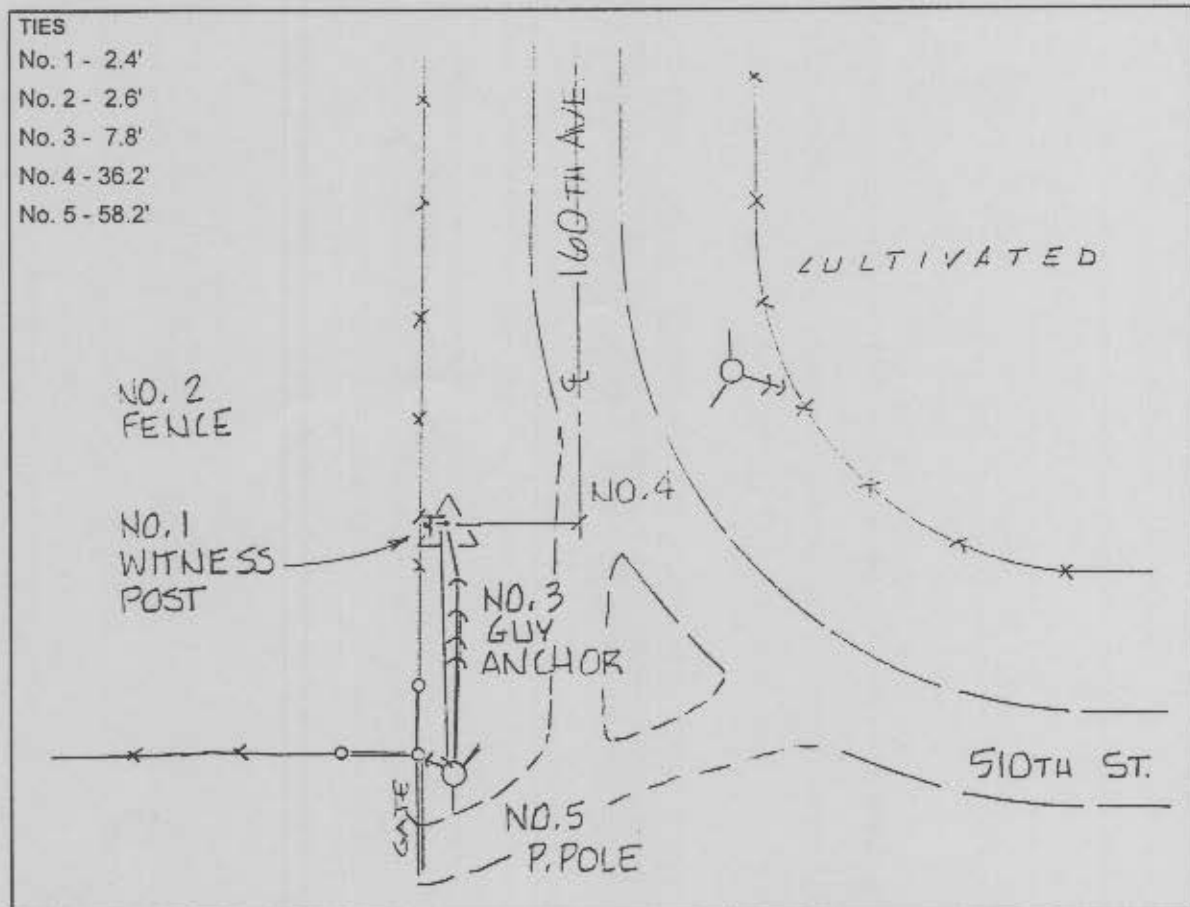
No. 1 - 2.4'

No. 2 - 2.6'

No. 3 - 7.8'

No. 4 - 36.2'

No. 5 - 58.2'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943733 2 GPS No. 7028 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 33 TWP 94 N RGE 37 W USGS QUAD MAP SIOUX RAPIDS

TO REACH FROM THE INTERSECTION OF 500TH STREET / HWY 10 AND 195TH AVENUE;
GO SOUTH 0.7 MILE TO 510TH STREET; THEN SOUTHWESTERLY 0.5 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995437

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3799713.401 NORTHING (Y) 1158154.961

EASTING (X) 4462419.478 EASTING (X) 1360148.177

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1259.38 ELEVATION (METERS) 383.861

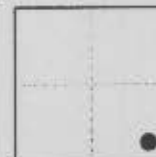
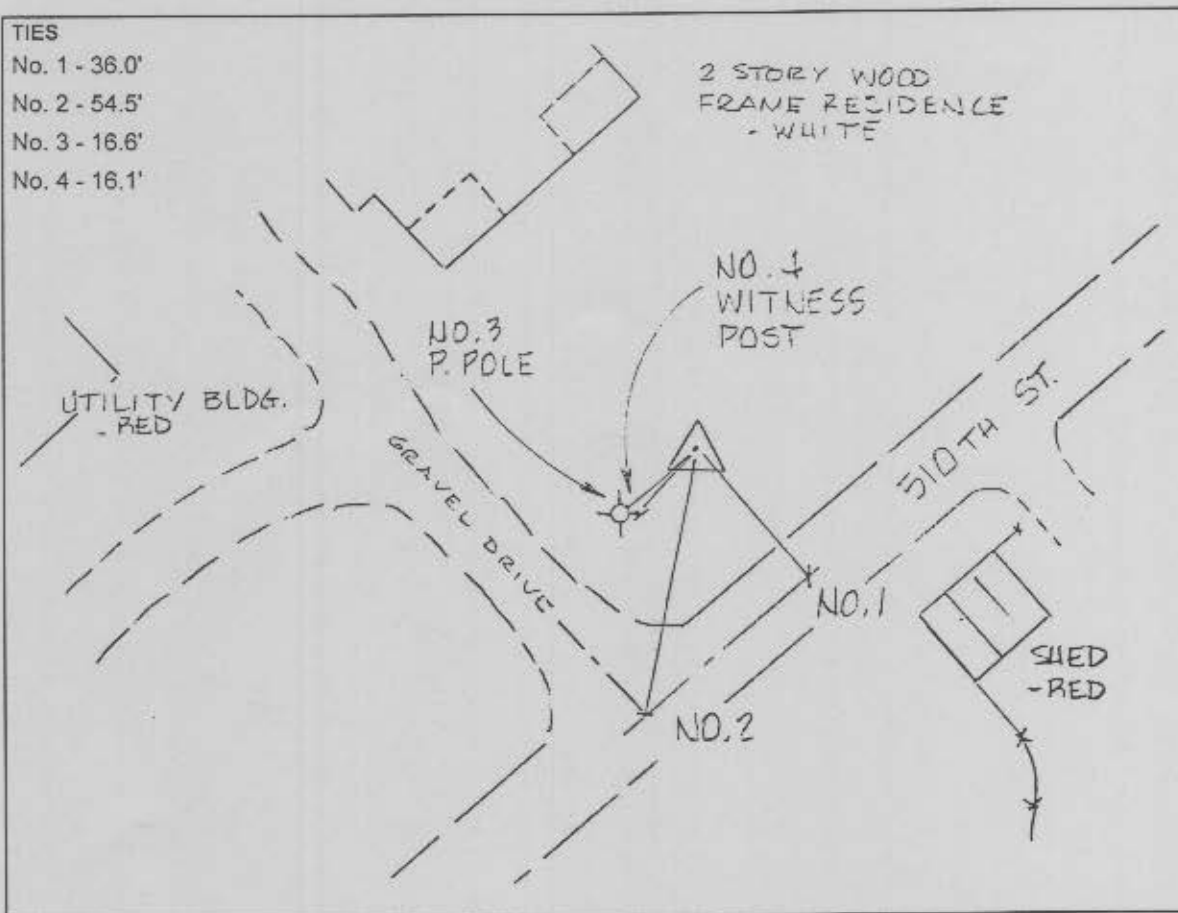
TIES

No. 1 - 36.0'

No. 2 - 54.5'

No. 3 - 16.6'

No. 4 - 16.1'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953734 3 GPS No. 7030 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 34 TWP 95 N RGE 37 W USGS QUAD MAP SIOUX RAPIDS
TO REACH FROM THE INTERSECTION OF 450TH STREET AND 190TH AVENUE; GO NORTH ON
190TH AVENUE FOR 0.15 MILE TO FIELD ENTRANCE TO EAST AND MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE SCALE FACTOR: 0.99996194

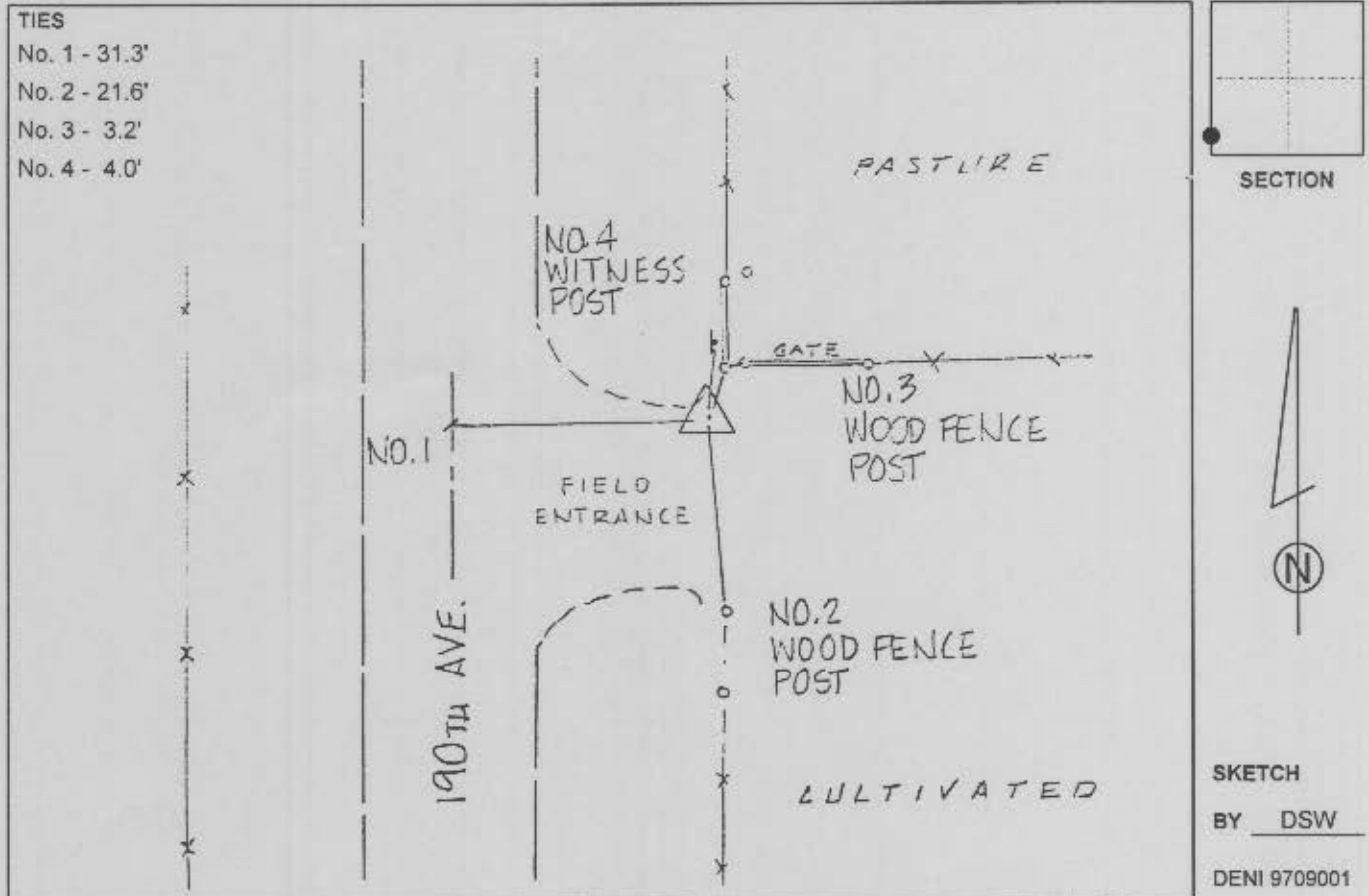
COORDINATES (US FEET) COORDINATES (METERS)

NORTHING (Y) 3831320.351 NORTHING (Y) 1167788.779

EASTING (X) 4463668.198 EASTING (X) 1360528.788

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1368.85 ELEVATION (METERS) 417.225



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943716 2 GPS No. 7029 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 16 TWP 94 N RGE 37 W USGS QUAD MAP SIOUX RAPIDS
TO REACH FROM _____
IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF 480TH STREET
AND 190TH AVENUE.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995777

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3815096.272

NORTHING (Y) 1162843.669

EASTING (X) 4463229.611

EASTING (X) 1360395.106

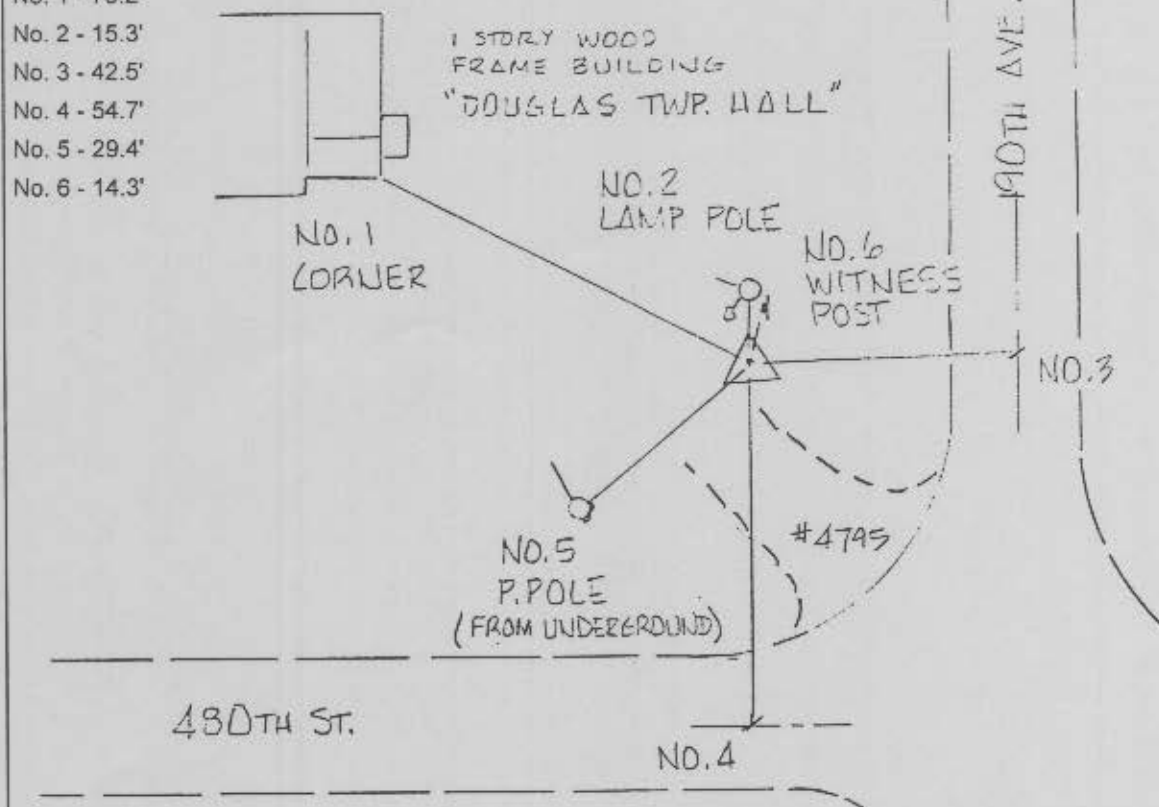
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1379.62

ELEVATION (METERS) 420.510

TIES

- No. 1 - 70.2'
- No. 2 - 15.3'
- No. 3 - 42.5'
- No. 4 - 54.7'
- No. 5 - 29.4'
- No. 6 - 14.3'



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953734 3 GPS No. 7030 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 34 TWP 95 N RGE 37 W USGS QUAD MAP SIoux RAPIDS
TO REACH FROM THE INTERSECTION OF 450TH STREET AND 190TH AVENUE; GO NORTH ON
190TH AVENUE FOR 0.15 MILE TO FIELD ENTRANCE TO EAST AND MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996194

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3831320.351

NORTHING (Y) 1167788.779

EASTING (X) 4463668.198

EASTING (X) 1360528.788

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1368.85

ELEVATION (METERS) 417.225

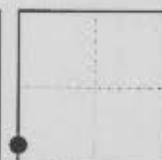
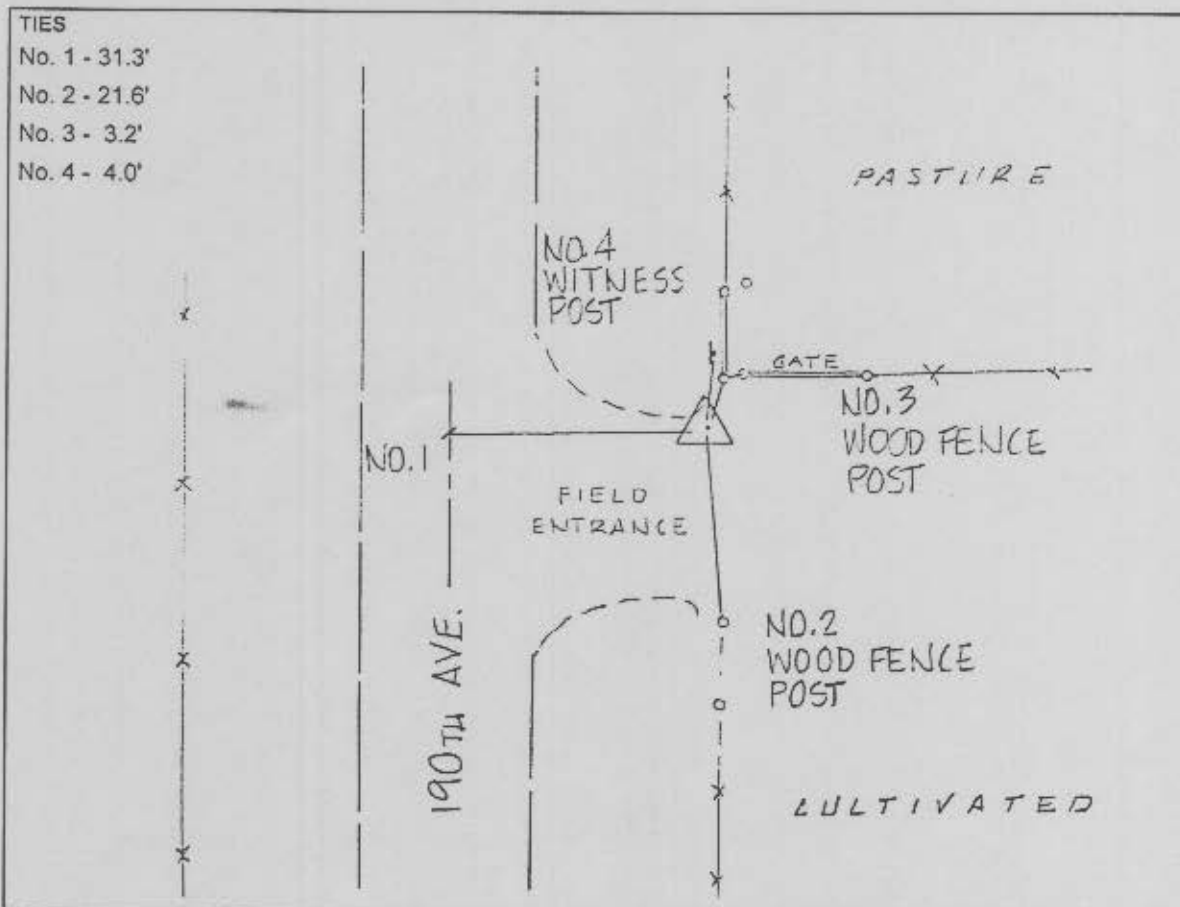
TIES

No. 1 - 31.3'

No. 2 - 21.6'

No. 3 - 3.2'

No. 4 - 4.0'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953716 2 GPS No. 7031 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 16 TWP 95 N RGE 37 W USGS QUAD MAP GREENVILLE

TO REACH FROM _____

IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF 420TH STREET AND 190TH AVENUE.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996642

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3846574.402

NORTHING (Y) 1172438.223

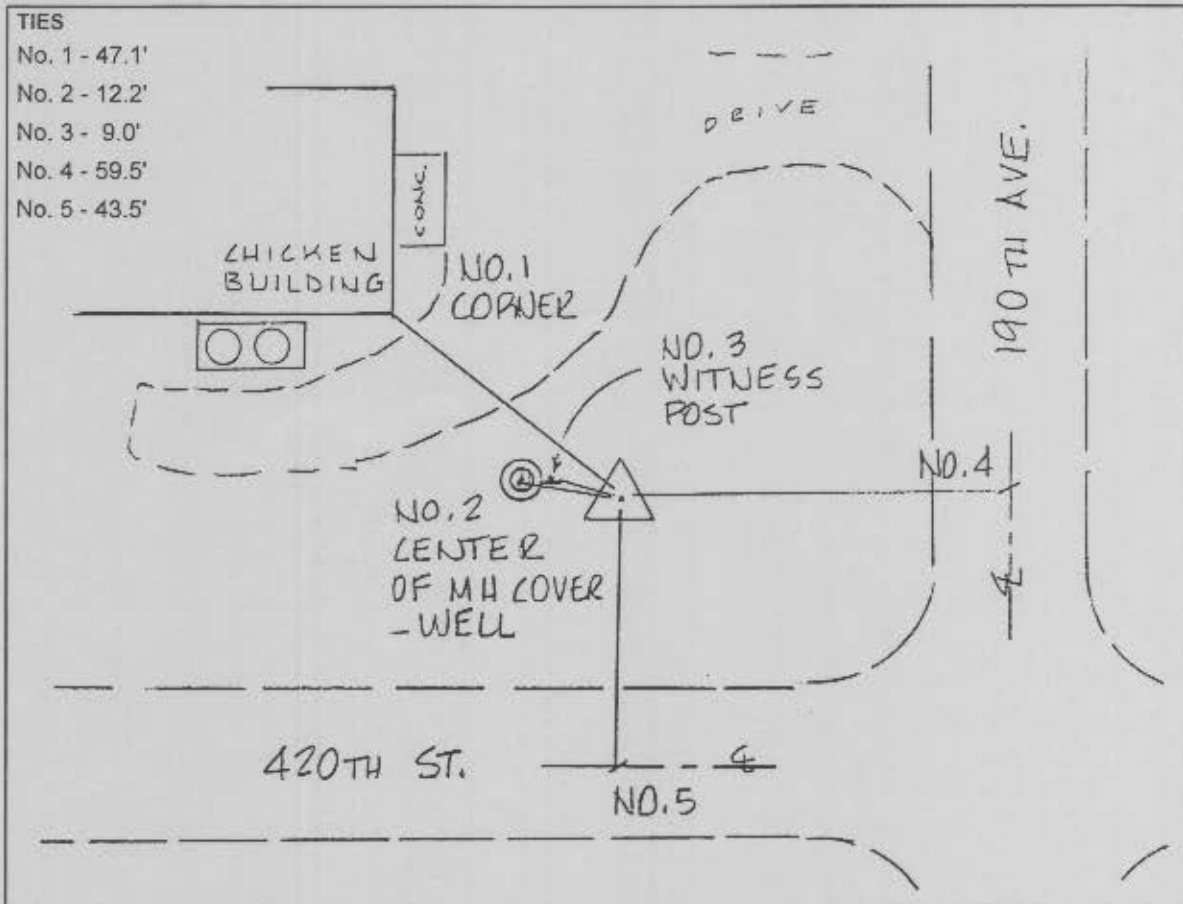
EASTING (X) 4463805.178

EASTING (X) 1360570.539

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1403.98

ELEVATION (METERS) 427.934



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963734 3 GPS No. 7032 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 34 TWP 96 N RGE 37 W USGS QUAD MAP GREENVILLE
TO REACH FROM THE INTERSECTION OF 390TH STREET AND 190TH AVENUE / COUNTY ROAD M38;
GO NORTH 215 FEET, MORE OR LESS, TO DRIVE EAST INTO SUB-STATION AND MARK TO NORTH OF DRIVE.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997176

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3862788.607

NORTHING (Y) 1177380.322

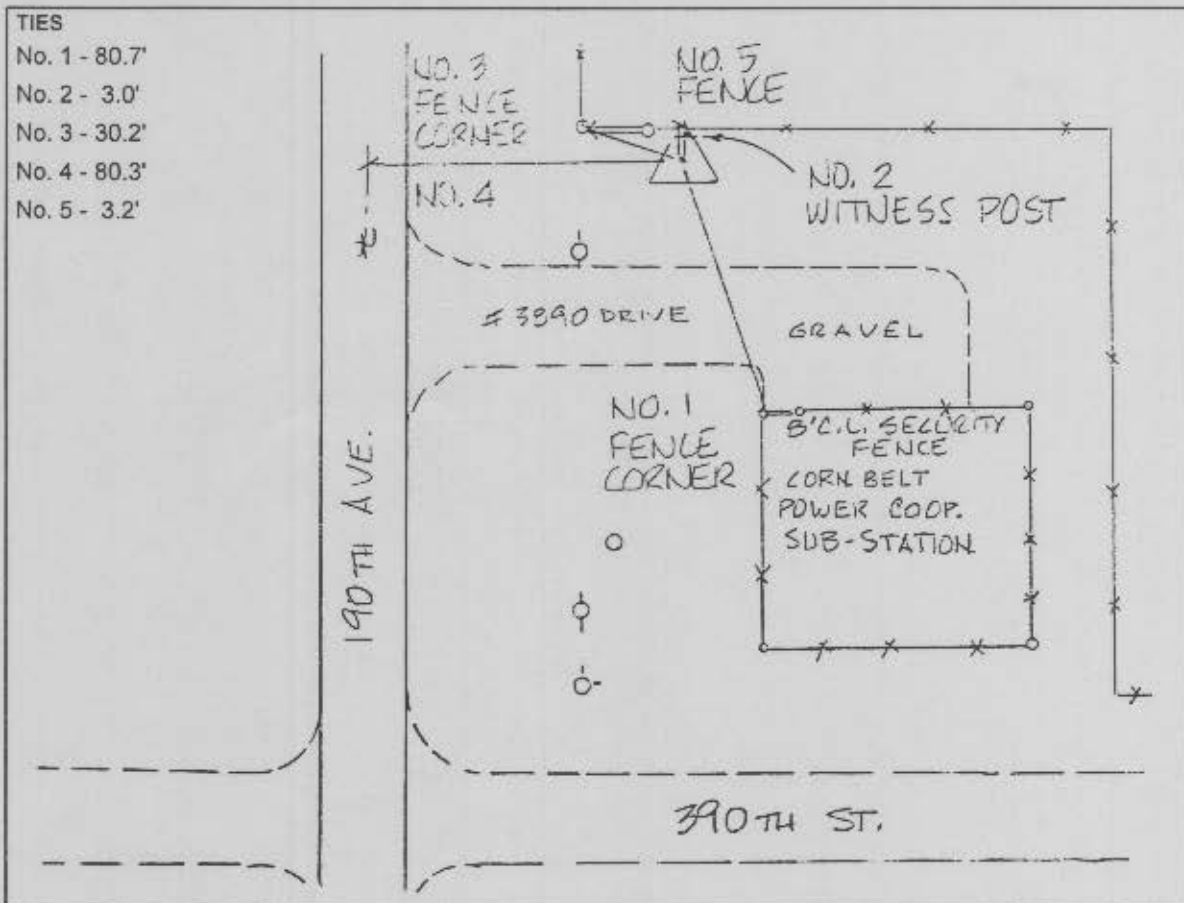
EASTING (X) 4464356.481

EASTING (X) 1360738.577

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1359.75

ELEVATION (METERS) 414.453



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION	963722 4	GPS No.	7033	COUNTY	CLAY	STATE	IOWA
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LOCATED IN SECTION 22 TWP 96 N RGE 37 W USGS QUAD MAP SPENCER

TO REACH FROM _____

AT THE "T" INTERSECTION TO WEST OF 360TH STREET AND 190TH AVENUE / COUNTY ROAD M38

BETWEEN FIELD ENTRANCES TO EAST.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY:

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997748

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y)	3878418.109
--------------	-------------

NORTHING (Y) 1182144.204

EASTING (X) 4464684.633

EASTING (X) 1360838.598

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET)	1325.64
---------------------	---------

ELEVATION (METERS)	404.055
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TIES

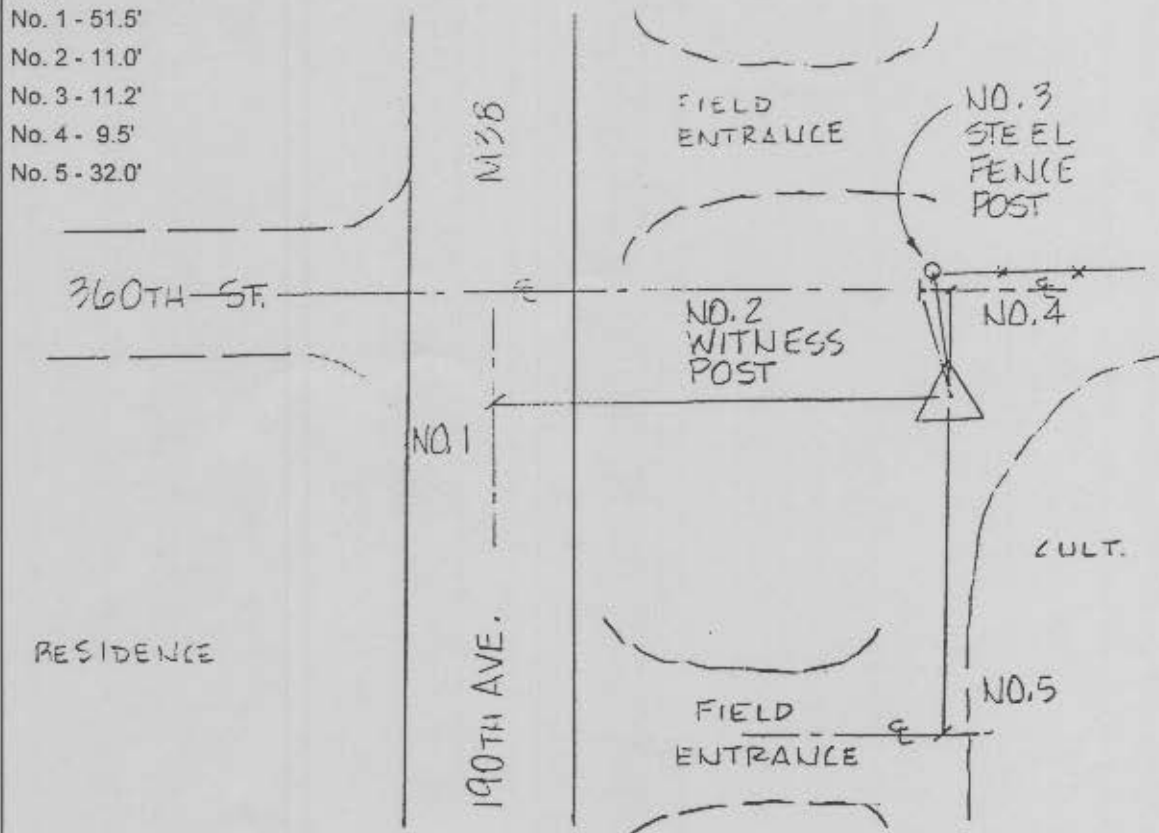
No. 1 - 51.5'

No. 2 - 11.0'

No. 3 - 11.2'

No. 4 - 9.5'

No. 5 - 32.0'



SECTION

SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963703 1 GPS No. 7034 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 3 TWP 96 N RGE 37 W USGS QUAD MAP SPENCER
TO REACH FROM THE INTERSECTION OF 330TH STREET AND 200TH AVENUE / COUNTY ROAD M44;
GO WEST 0.5 MILE TO END OF ROAD AND MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99998363

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3893662.122

NORTHING (Y) 1186790.588

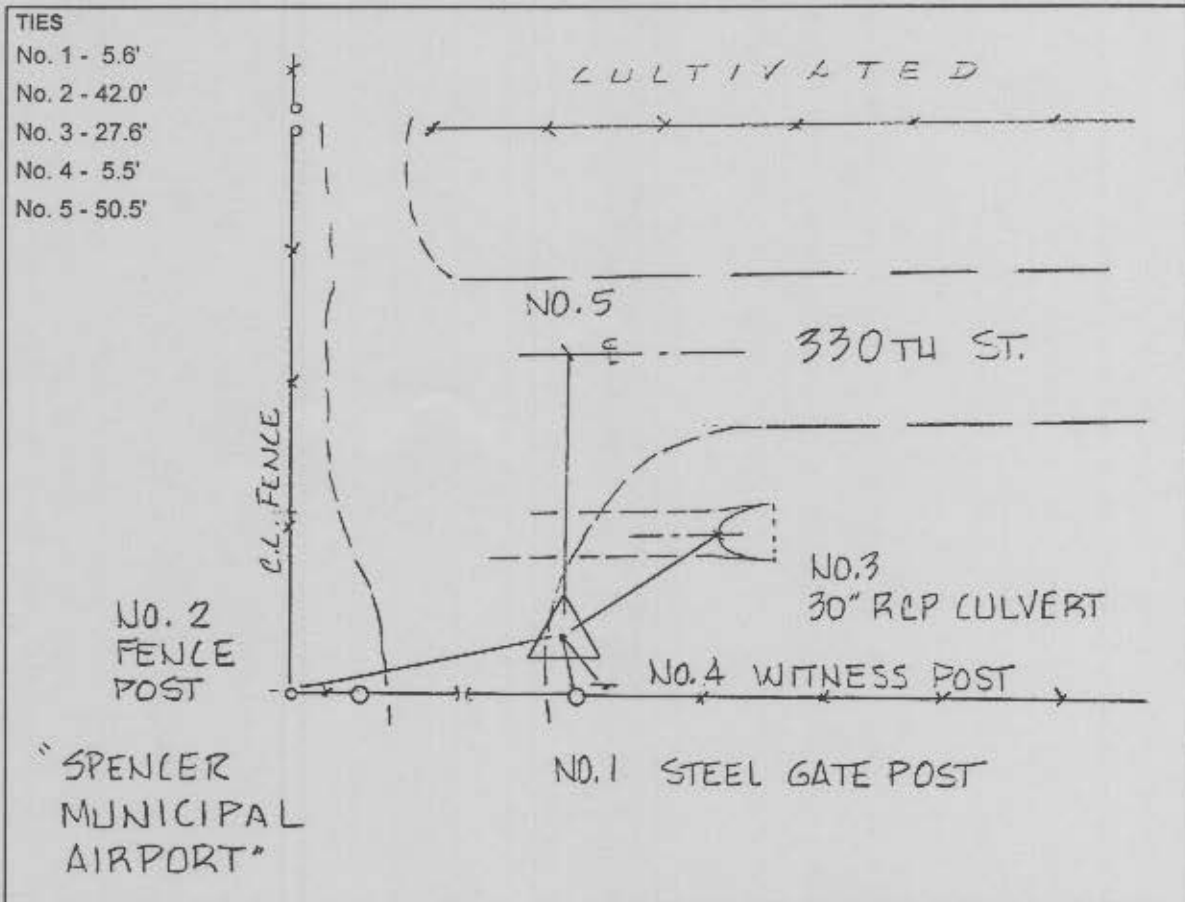
EASTING (X) 4467804.533

EASTING (X) 1361789.545

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1332.31

ELEVATION (METERS) 406.090



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973716 2 GPS No. 7035 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 16 TWP 97 N RGE 37 W USGS QUAD MAP SPENCER

TO REACH FROM _____

IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF 300TH STREET

AND 190TH AVENUE / COUNTY ROAD M38.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999068

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3909809.477

NORTHING (Y) 1191712.312

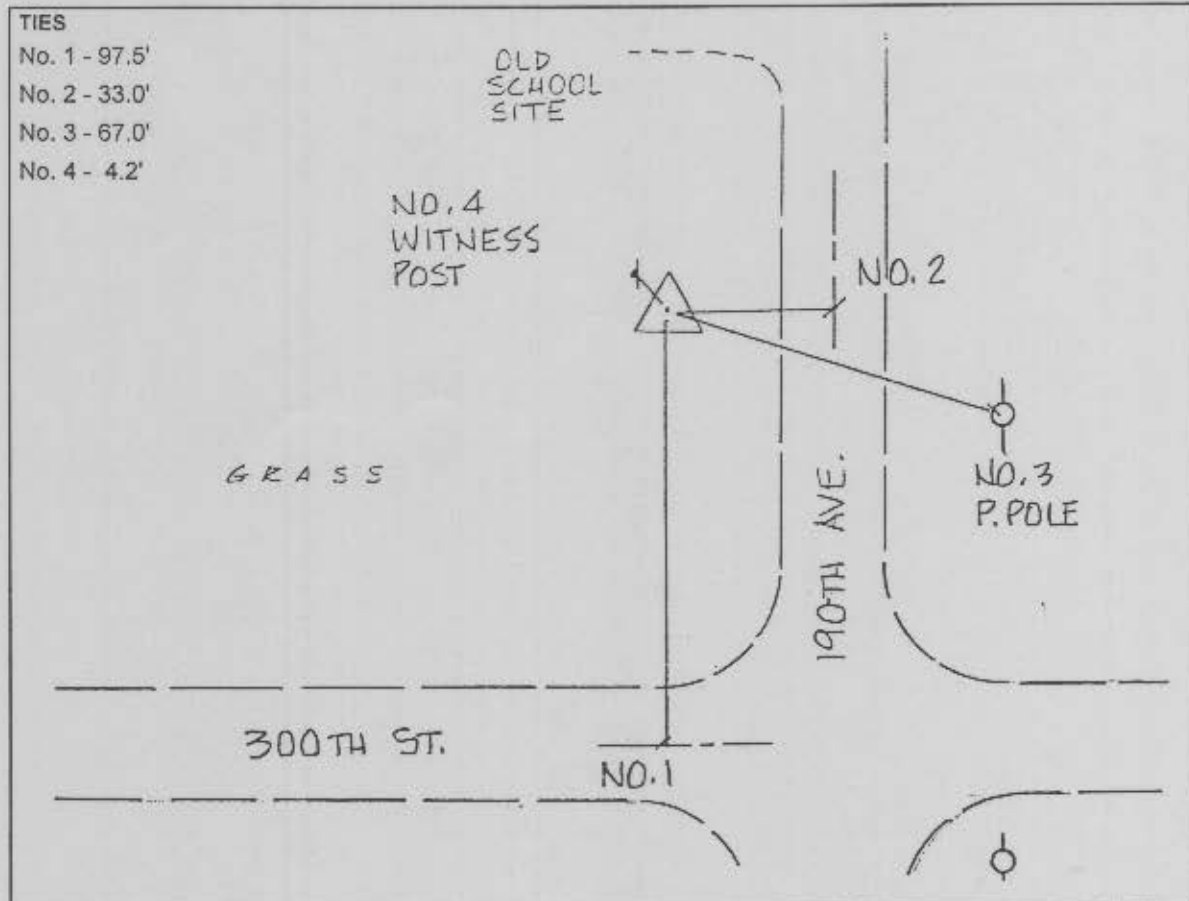
EASTING (X) 4465396.610

EASTING (X) 1361055.609

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1375.69

ELEVATION (METERS) 419.310



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973704 1 GPS No. 7036 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 4 TWP 97 N RGE 37 W USGS QUAD MAP MILFORD

TO REACH FROM _____

AT THE "T" INTERSECTION TO THE EAST OF 270TH STREET (CLAY - DICKINSON COUNTY LINE)

AND 190TH AVENUE / COUNTY ROAD M38.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999793

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3925114.661

NORTHING (Y) 1196377.341

EASTING (X) 4465753.228

EASTING (X) 1361164.306

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1391.94

ELEVATION (METERS) 424.263

TIES

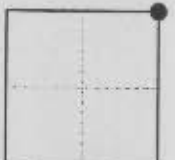
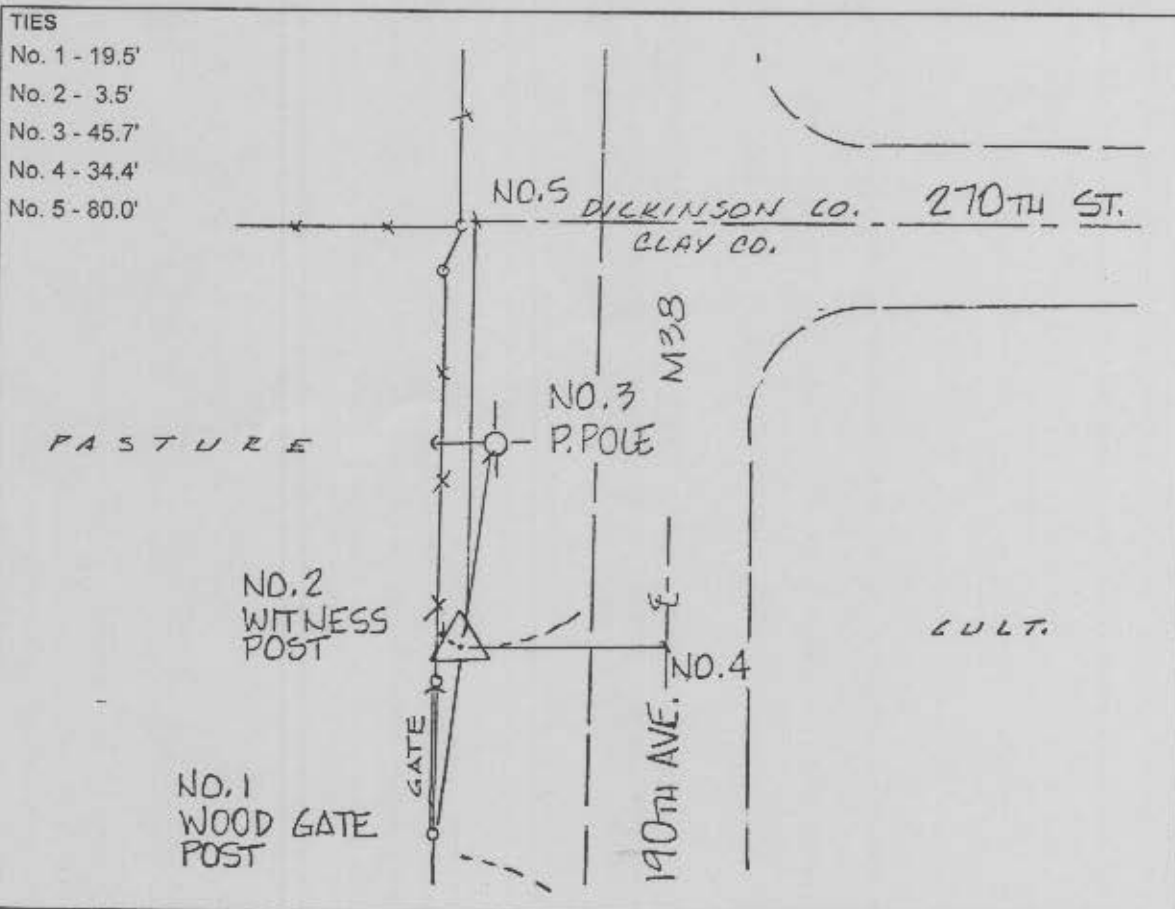
No. 1 - 19.5'

No. 2 - 3.5'

No. 3 - 45.7'

No. 4 - 34.4'

No. 5 - 80.0'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973606 4 GPS No. 7037 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 6 TWP 97 N RGE 36 W USGS QUAD MAP MILFORD
TO REACH FROM THE "T" INTERSECTION OF 270TH STREET (CLAY - DICKINSON COUNTY LINE)
AND 220TH AVENUE / U.S. HIGHWAY 71; GO EAST 0.05 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999796

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3924840.122

NORTHING (Y) 1196293.662

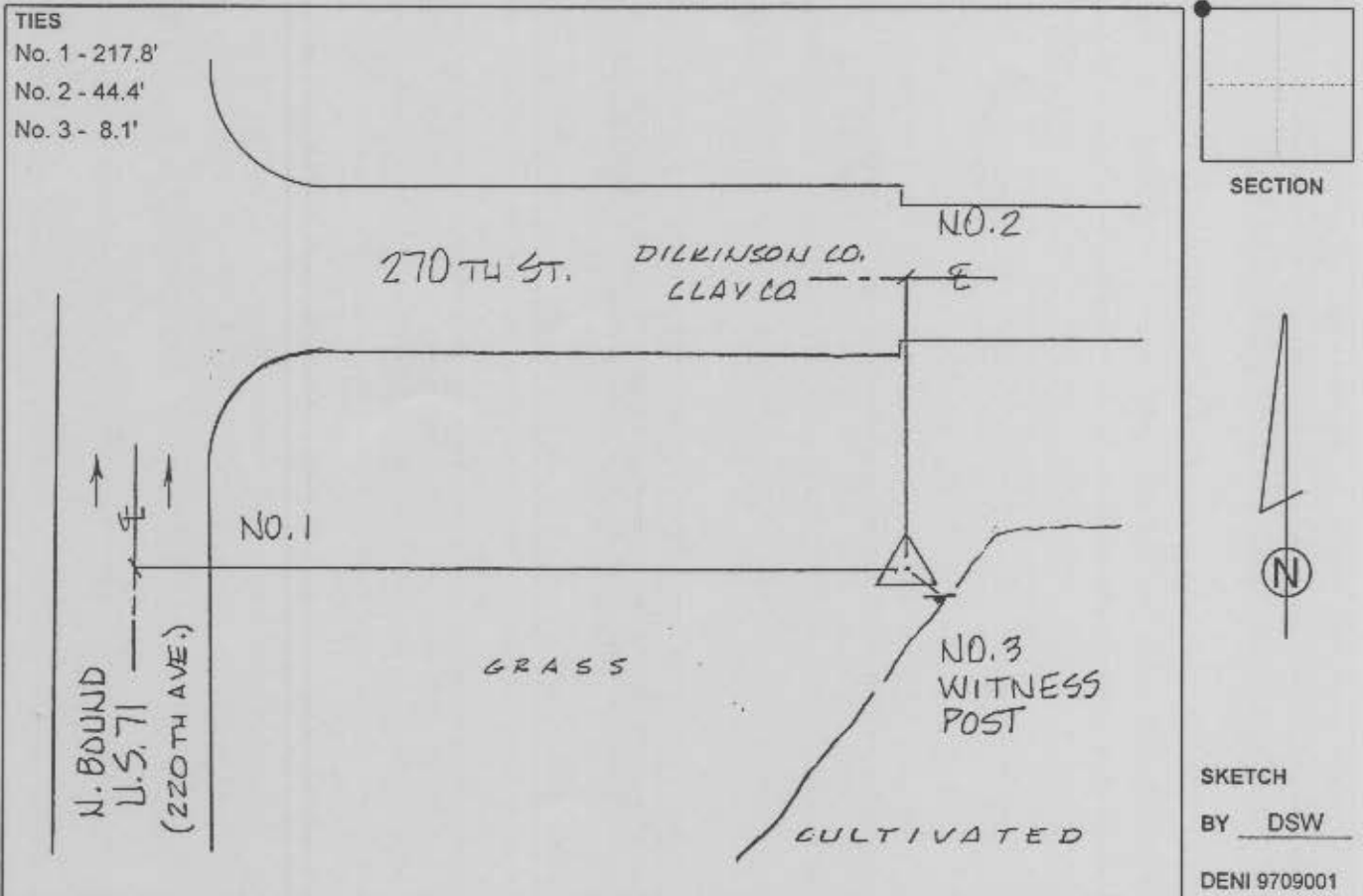
EASTING (X) 4481927.185

EASTING (X) 1366094.138

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1428.54

ELEVATION (METERS) 435.421



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973724 1 GPS No. 7038 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 24 TWP 97 N RGE 37 W USGS QUAD MAP SPENCER

TO REACH FROM _____

IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF 300TH STREET / COUNTY ROAD B17

AND 220TH AVENUE / U.S. HIGHWAY 71.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999053

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3909182.110

NORTHING (Y) 1191521.090

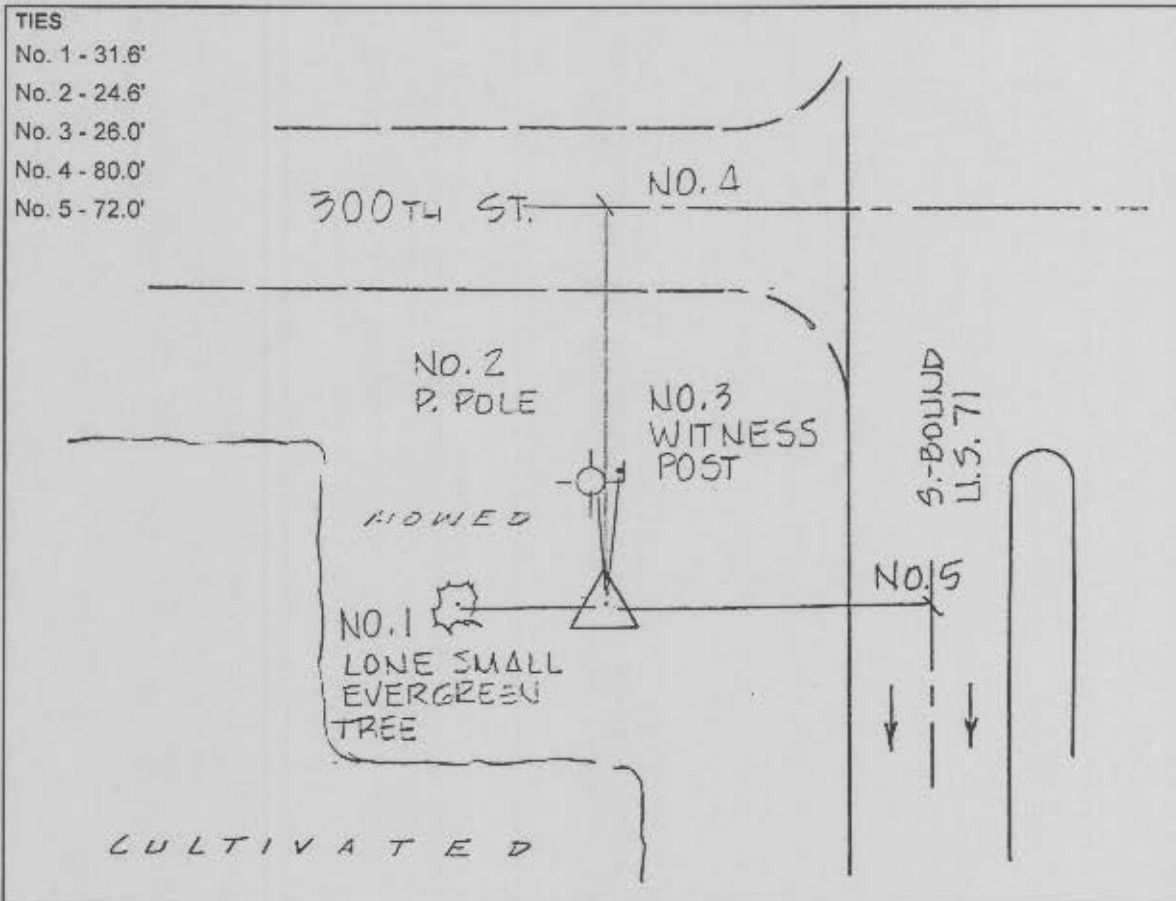
EASTING (X) 4481145.466

EASTING (X) 1365855.870

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1374.65

ELEVATION (METERS) 418.994



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963606 4 GPS No. 7039 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 6 TWP 96 N RGE 36 W USGS QUAD MAP SPENCER

TO REACH FROM _____

IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 330TH STREET / EAST 30TH STREET

AND U.S. HIGHWAY 71.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE SCALE FACTOR: 0.99998361

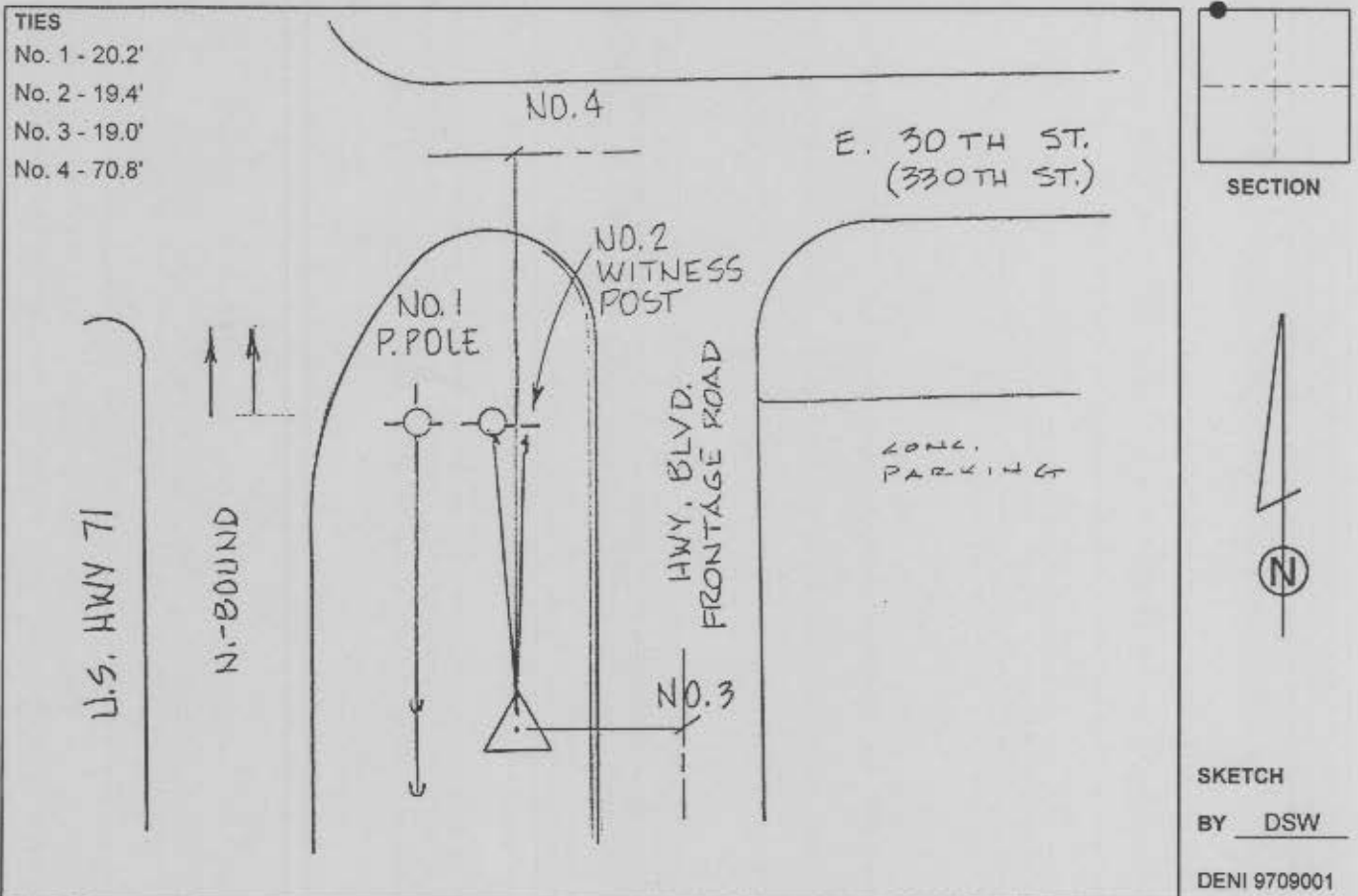
COORDINATES (US FEET) COORDINATES (METERS)

NORTHING (Y) 3893334.240 NORTHING (Y) 1186690.650

EASTING (X) 4481864.031 EASTING (X) 1366074.889

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1322.42 ELEVATION (METERS) 403.075



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953701 1 GPS No. 7041 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 1 TWP 95 N RGE 37 W USGS QUAD MAP GREENVILLE
TO REACH FROM THE INTERSECTION OF 390TH STREET AND U.S. HIGHWAY 71;
GO EAST 0.4 MILE TO EAST EDGE OF FARM COMPLEX AND MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

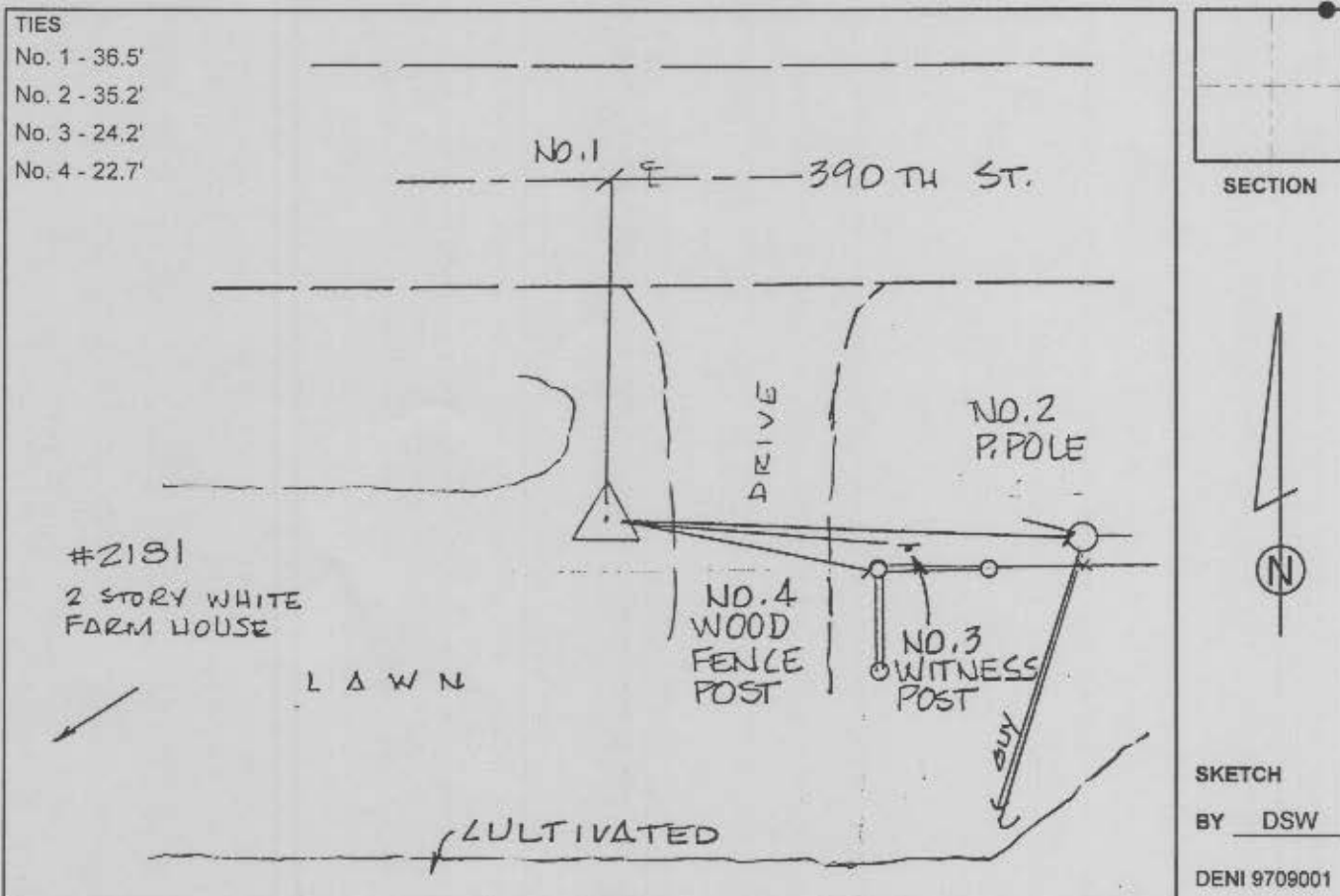
☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE	SCALE FACTOR: <u>0.99997164</u>
COORDINATES (US FEET)	COORDINATES (METERS)
NORTHING (Y) <u>3862140.986</u>	NORTHING (Y) <u>1177182.927</u>
EASTING (X) <u>4479433.345</u>	EASTING (X) <u>1365334.014</u>

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) <u>1357.46</u>	ELEVATION (METERS) <u>413.754</u>
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GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963619 4 GPS No. 7040 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 19 TWP 96 N RGE 36 W USGS QUAD MAP SPENCER

TO REACH FROM THE INTERSECTION OF 360TH STREET / U.S. HIGHWAY 18 TO EAST AND U.S. HIGHWAY 71

TO NORTH AND WEST, 1.5 MILES SOUTH OF DOWNTOWN SPENCER; GO SOUTH 150 FEET

TO 11TH STREET SOUTHWEST PLAZA (FRONTAGE ROAD); THEN WEST 0.25 MILE TO U.S.D.A. BUILDING

THEN SOUTH ALONG WESTERLY BUILDING EDGE TO SOUTHWEST CORNER OF PARKING LOT AND MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE SCALE FACTOR: 0.99997727

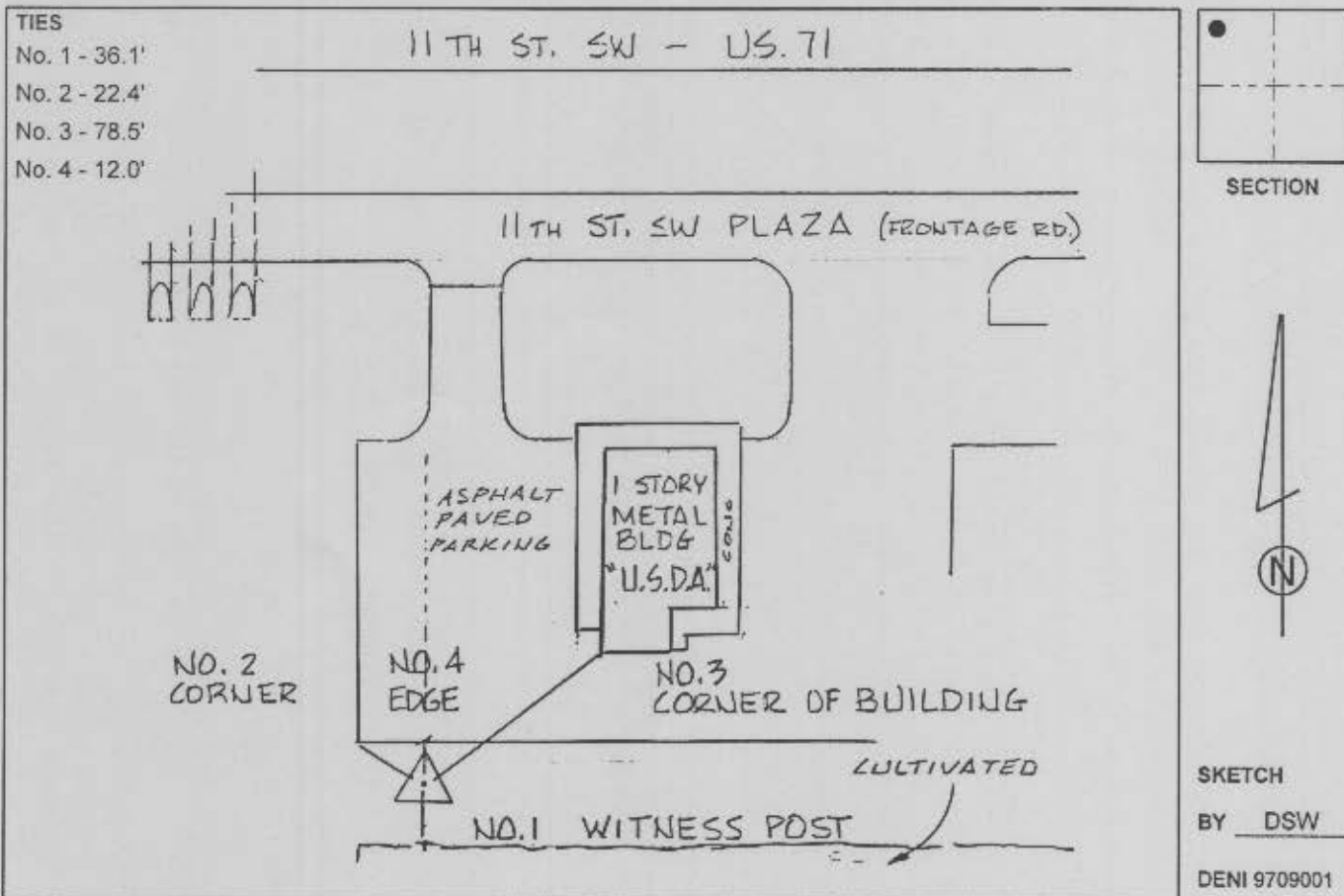
COORDINATES (US FEET) COORDINATES (METERS)

NORTHING (Y) 3877539.586 NORTHING (Y) 1181876.430

EASTING (X) 4481111.304 EASTING (X) 1365845.457

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1316.19 ELEVATION (METERS) 401.177



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953701 1 GPS No. 7041 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 1 TWP 95 N RGE 37 W USGS QUAD MAP GREENVILLE
TO REACH FROM THE INTERSECTION OF 390TH STREET AND U.S. HIGHWAY 71;
GO EAST 0.4 MILE TO EAST EDGE OF FARM COMPLEX AND MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997164

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3862140.986

NORTHING (Y) 1177182.927

EASTING (X) 4479433.345

EASTING (X) 1365334.014

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1357.46

ELEVATION (METERS) 413.754

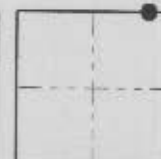
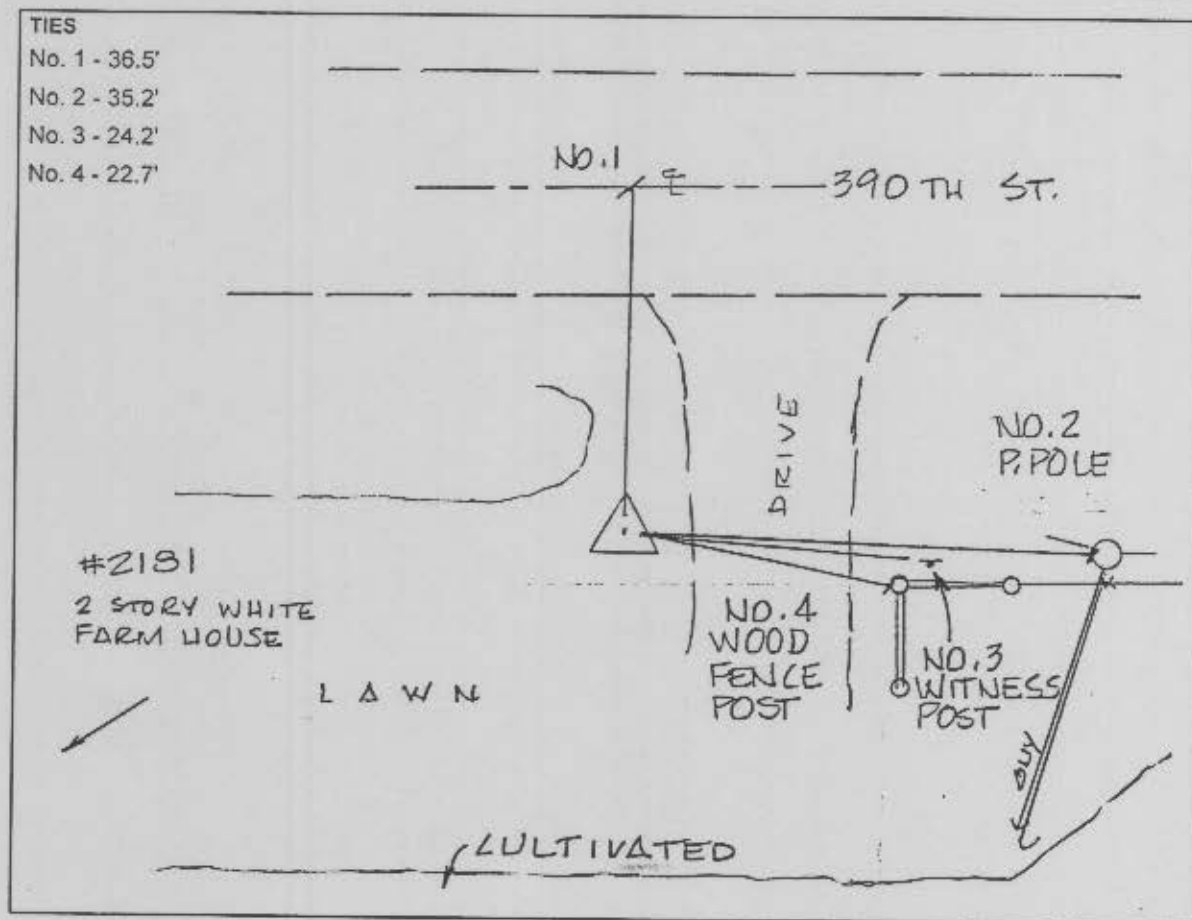
TIES

No. 1 - 36.5'

No. 2 - 35.2'

No. 3 - 24.2'

No. 4 - 22.7'



SECTION

SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953618 3 GPS No. 7042 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 18 TWP 95 N RGE 36 W USGS QUAD MAP GREENVILLE
TO REACH FROM THE INTERSECTION OF 420TH STREET AND U.S. HIGHWAY 71;
GO EAST 0.65 MILE TO MARK, SET BY CORN CRIB.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996638

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3846129.722

NORTHING (Y) 1172302.684

EASTING (X) 4480584.462

EASTING (X) 1365684.875

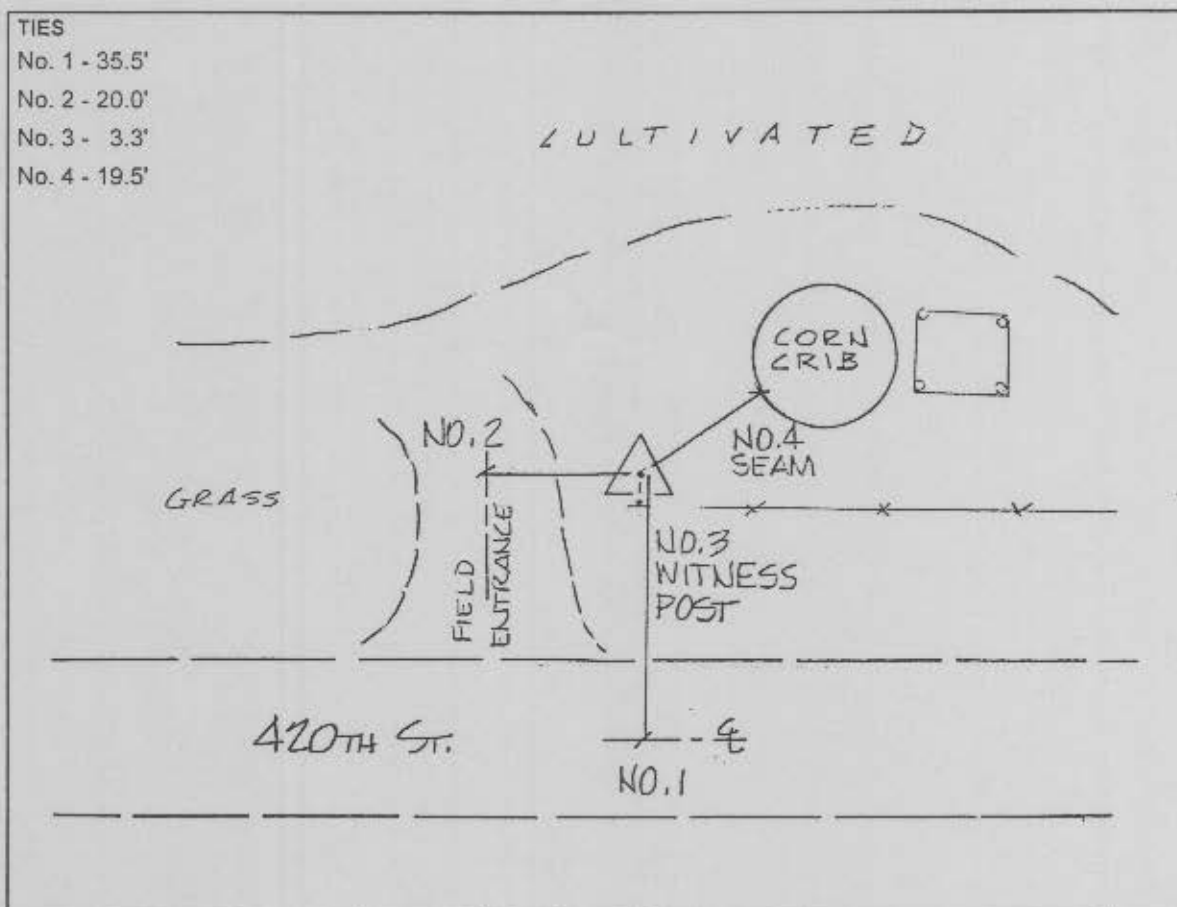
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1400.19

ELEVATION (METERS) 426.780

TIES

- No. 1 - 35.5'
- No. 2 - 20.0'
- No. 3 - 3.3'
- No. 4 - 19.5'



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943701 1 GPS No. 7043 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 1 TWP 94 N RGE 37 W USGS QUAD MAP SIoux RAPIDS
TO REACH FROM THE INTERSECTION OF 450TH STREET AND U.S. HIGHWAY 71;
GO EAST 0.45 MILE TO FIELD ENTRANCES NORTH AND SOUTH AND MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996173

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3830231.470

NORTHING (Y) 1167456.887

EASTING (X) 4479086.488

EASTING (X) 1365228.292

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1356.86

ELEVATION (METERS) 413.571

TIES

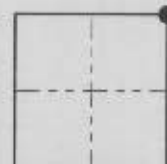
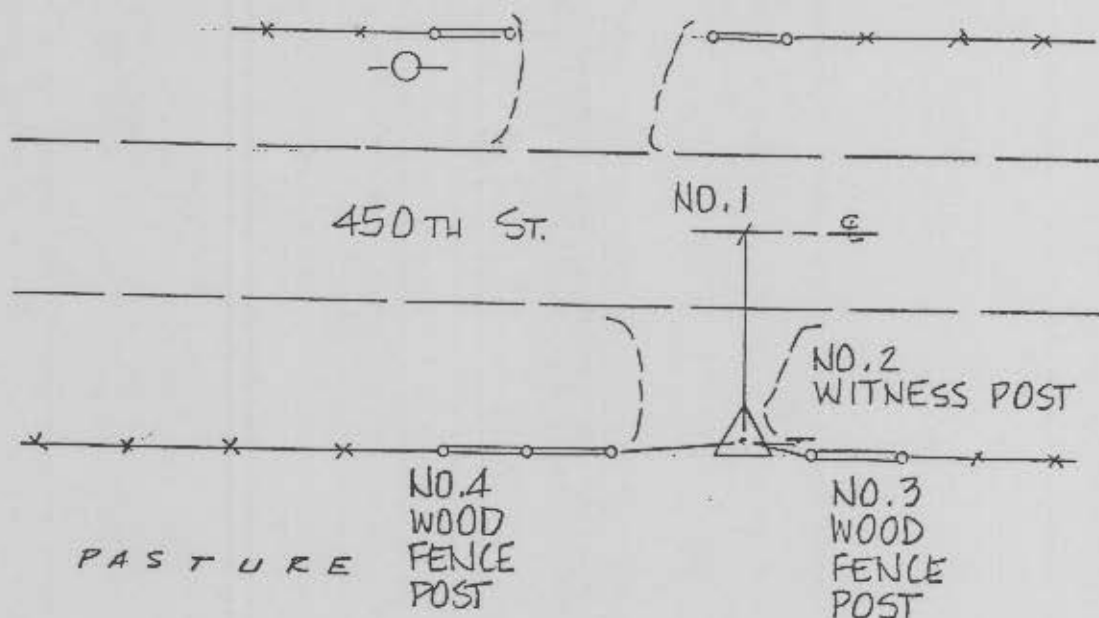
No. 1 - 30.0'

No. 2 - 10.0'

No. 3 - 10.8'

No. 4 - 18.2'

CULTIVATED



SECTION

SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943724 1 GPS No. 7044 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 24 TWP 94 N RGE 37 W USGS QUAD MAP SIOUX RAPIDS
TO REACH FROM THE INTERSECTION OF 480TH STREET / COUNTY ROAD B63 AND
U.S. HIGHWAY 71; GO EASTERLY 0.35 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995777

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3814807.631

NORTHING (Y) 1162755.691

EASTING (X) 4478498.921

EASTING (X) 1365049.201

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1339.64

ELEVATION (METERS) 408.322

TIES

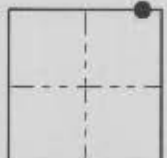
No. 1 - 66.0'

No. 2 - 11.7'

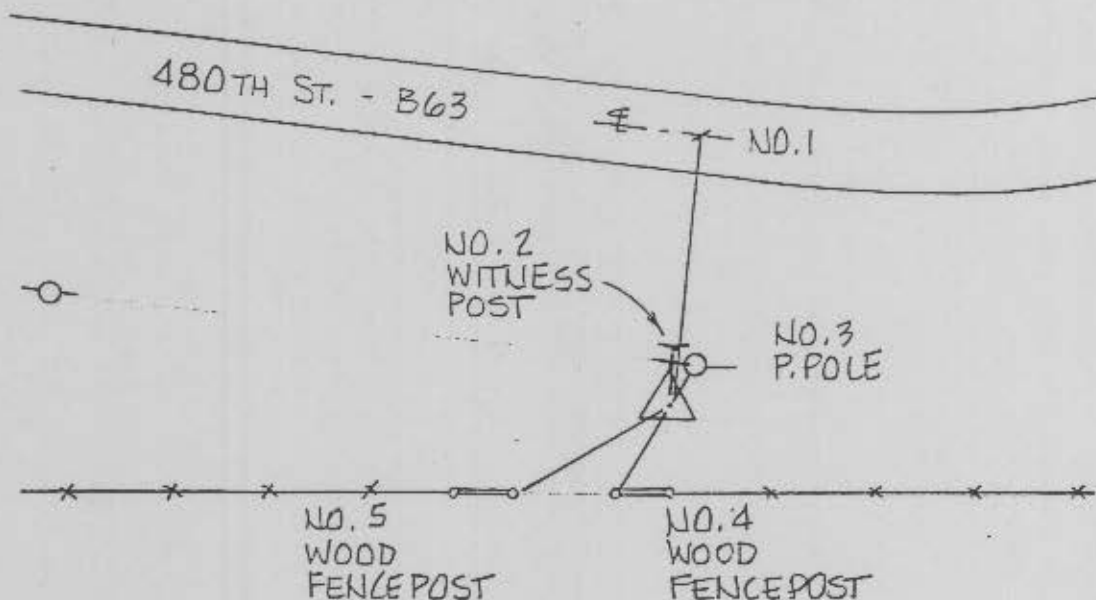
No. 3 - 10.3'

No. 4 - 23.3'

No. 5 - 34.6'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943631 3 GPS No. 7045 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 31 TWP 94 N RGE 36 W USGS QUAD MAP SIoux RAPIDS
TO REACH FROM THE INTERSECTION OF 510TH STREET (CLAY - BUENA VISTA COUNTY LINE) AND
220TH AVENUE; GO EAST 0.3 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995429

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3798964.294

NORTHING (Y) 1157926.633

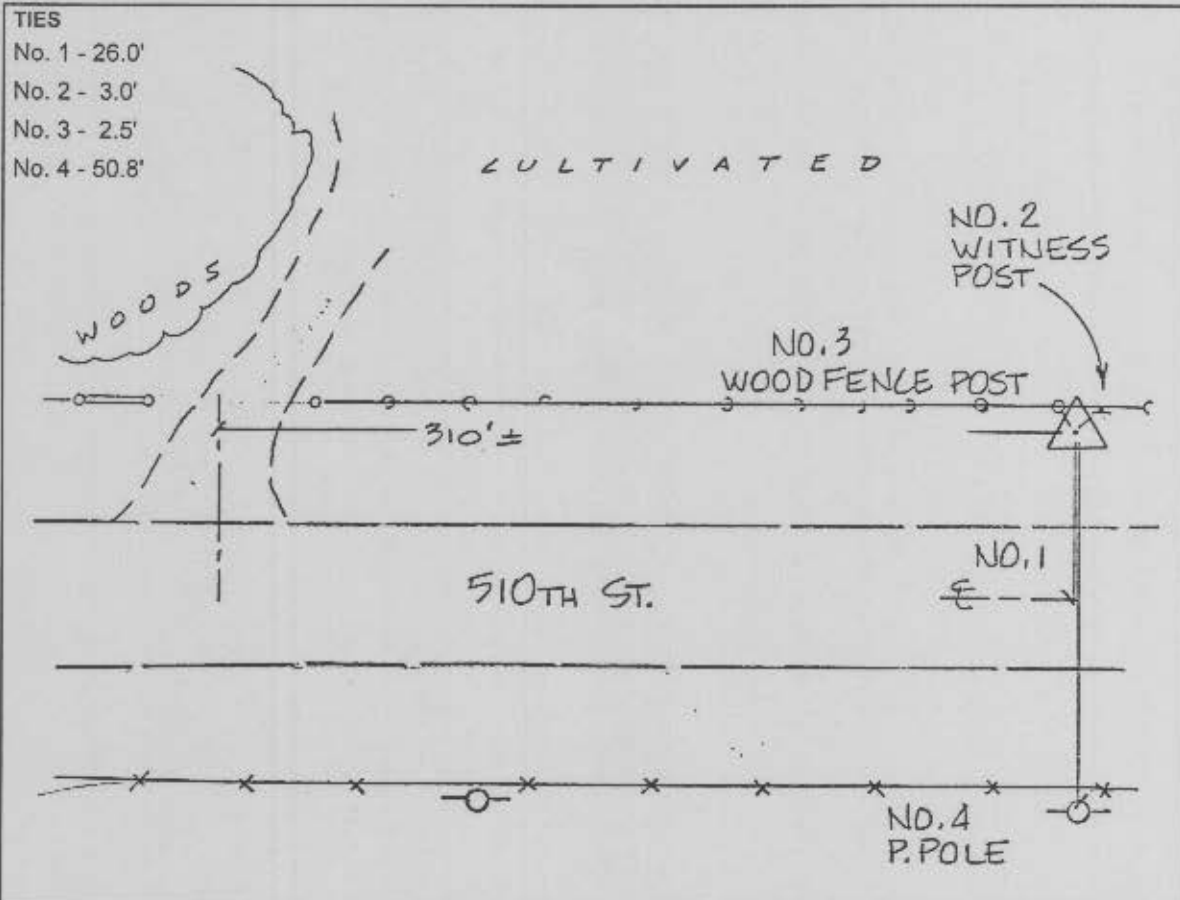
EASTING (X) 4479789.673

EASTING (X) 1365442.623

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1405.43

ELEVATION (METERS) 428.375



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943633 2 GPS No. 7046 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 33 TWP 94 N RGE 36 W USGS QUAD MAP WEBB

TO REACH FROM _____

IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF 510TH STREET

(CLAY - BUENA VISTA COUNTY LINE) AND 250TH AVENUE.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995429

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3798663.015

NORTHING (Y) 1157834.803

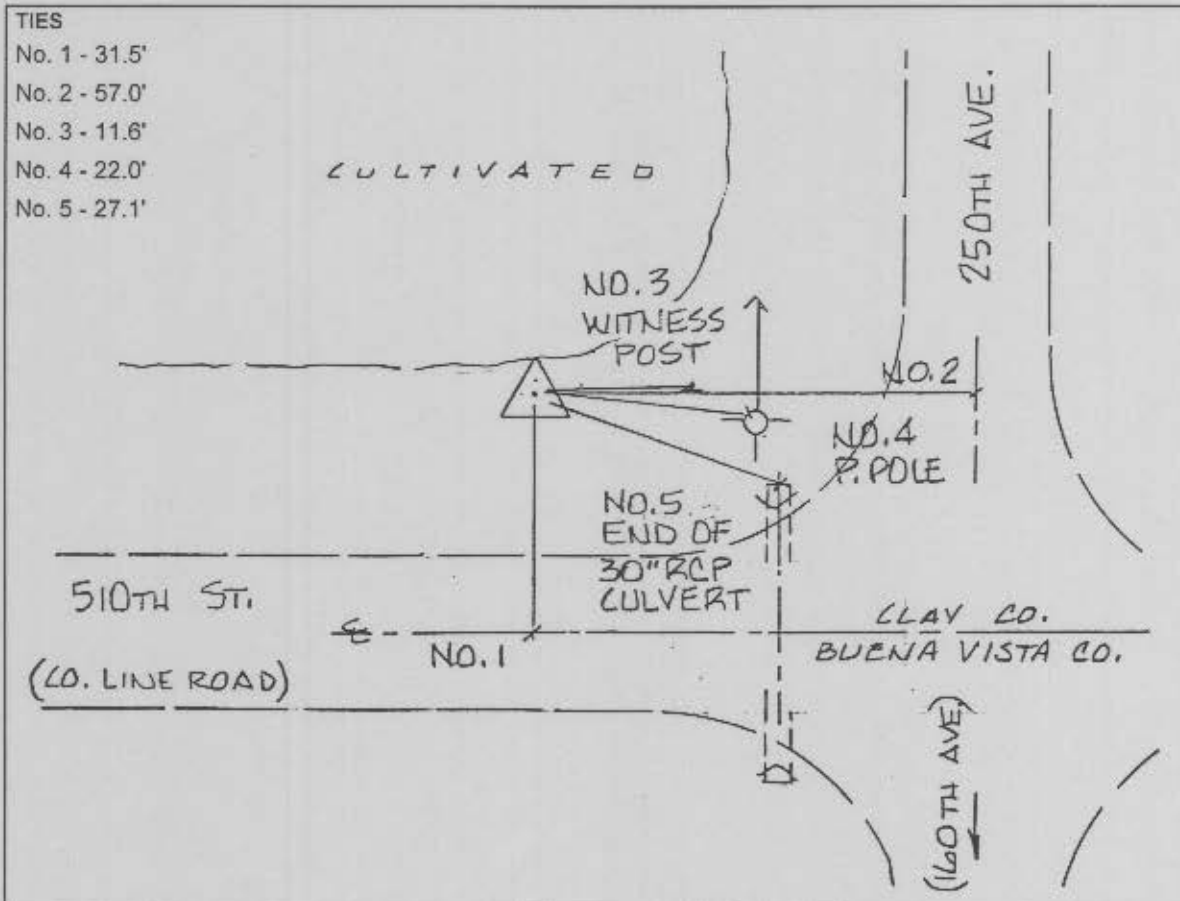
EASTING (X) 4494530.840

EASTING (X) 1369935.740

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1391.11

ELEVATION (METERS) 424.010



SKETCH
BY DSW
DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943621 1 GPS No. 7047 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 21 TWP 94 N RGE 36 W USGS QUAD MAP WEBB
TO REACH FROM THE INTERSECTION OF 480TH STREET / COUNTY ROAD B63 AND 250TH AVENUE;
GO WEST 0.2 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995787

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3814891.784

NORTHING (Y) 1162781.341

EASTING (X) 4493940.029

EASTING (X) 1369755.660

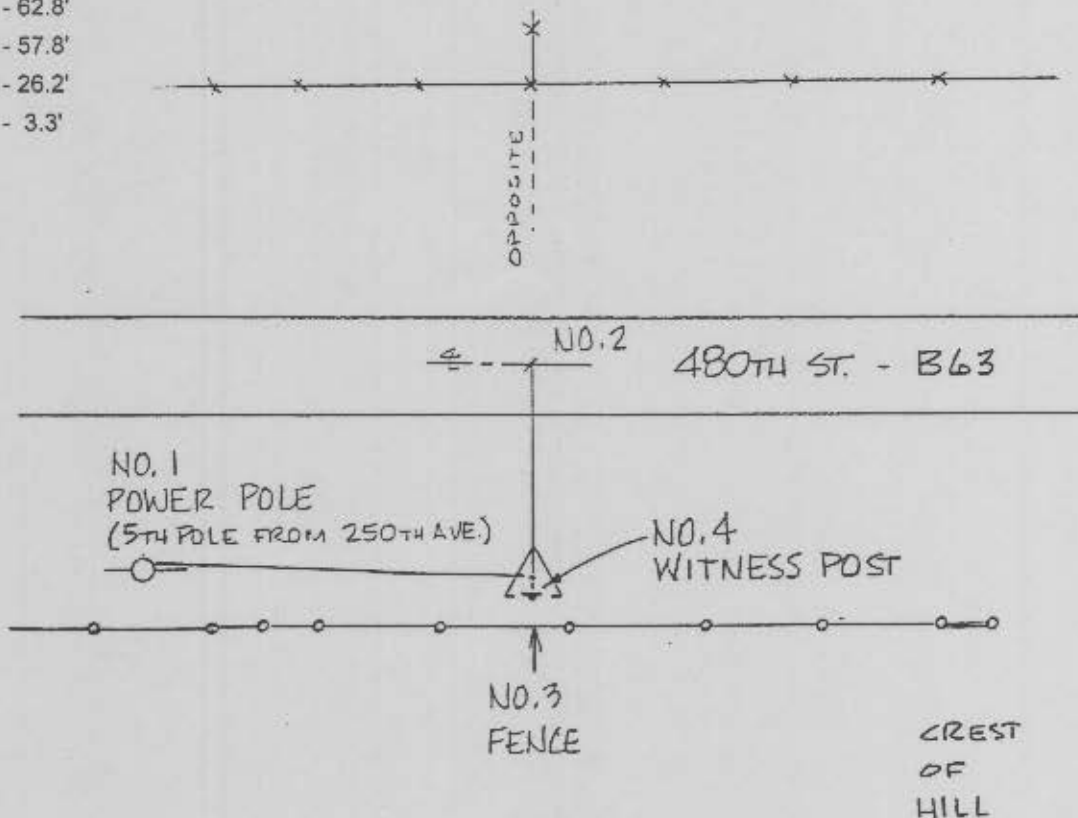
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1305.15

ELEVATION (METERS) 397.809

TIES

No. 1 - 62.8'
No. 2 - 57.8'
No. 3 - 26.2'
No. 4 - 3.3'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943604 1 GPS No. 7048 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 4 TWP 94 N RGE 36 W USGS QUAD MAP WEBB

TO REACH FROM THE INTERSECTION OF 450TH STREET AND 240TH AVENUE; GO EAST 0.5 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996174

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3830025.642

NORTHING (Y) 1167394.151

EASTING (X) 4492555.549

EASTING (X) 1369333.670

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1394.68

ELEVATION (METERS) 425.099

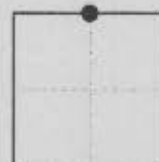
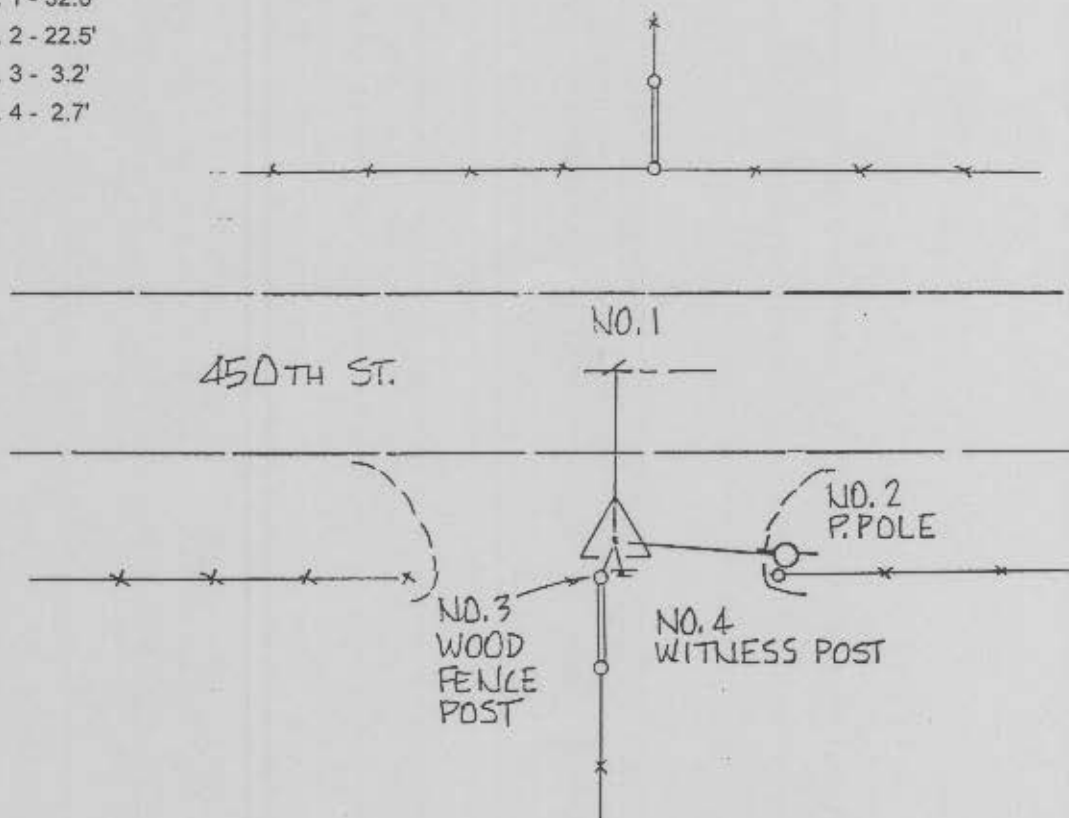
TIES

No. 1 - 32.0'

No. 2 - 22.5'

No. 3 - 3.2'

No. 4 - 2.7'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953622 4 GPS No. 7049 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 22 TWP 95 N RGE 36 W USGS QUAD MAP GILLETT GROVE
TO REACH FROM THE INTERSECTION OF 420TH STREET AND 250TH AVENUE; GO SOUTH 0.2 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996610

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3844930.598

NORTHING (Y) 1171937.190

EASTING (X) 4495460.407

EASTING (X) 1370219.072

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

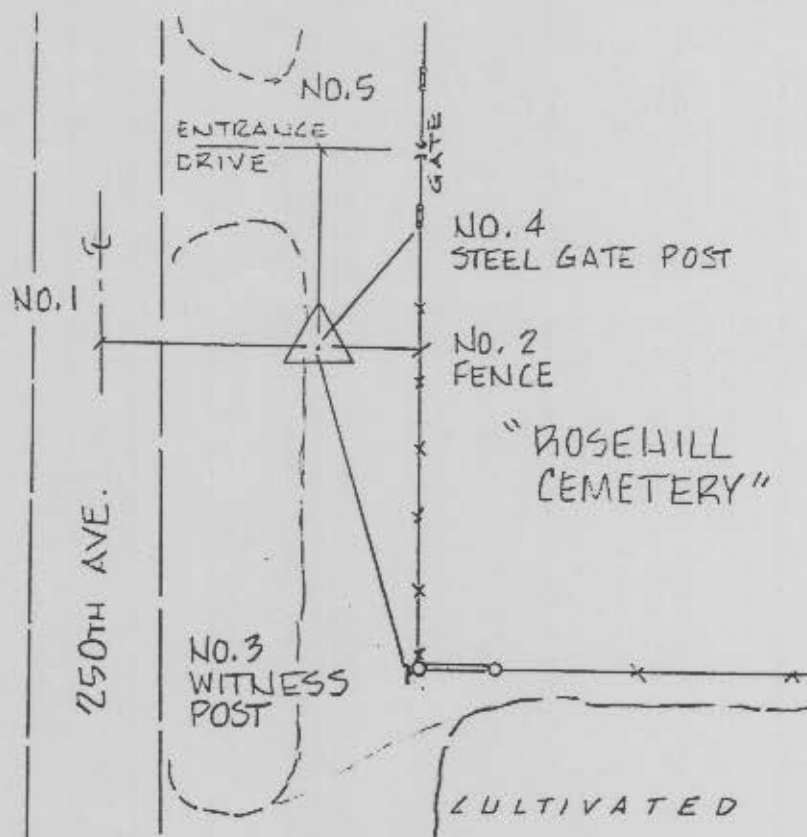
ELEVATION (US FEET) 1378.06

ELEVATION (METERS) 420.035

TIES

No. 1 - 32.0'
No. 2 - 11.6'
No. 3 - 49.7'
No. 4 - 18.6'
No. 5 - 23.0'

RESIDENCE &
COMPLEX



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953603 4 GPS No. 7050 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 3 TWP 95 N RGE 36 W USGS QUAD MAP GILLETT GROVE
TO REACH FROM THE INTERSECTION OF 390TH STREET \ COUNTY ROAD B40 AND 250TH AVENUE;
GO SOUTH 0.2 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997129

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3860829.390

NORTHING (Y) 1176783.152

EASTING (X) 4495884.226

EASTING (X) 1370348.253

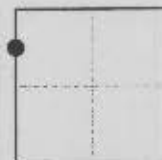
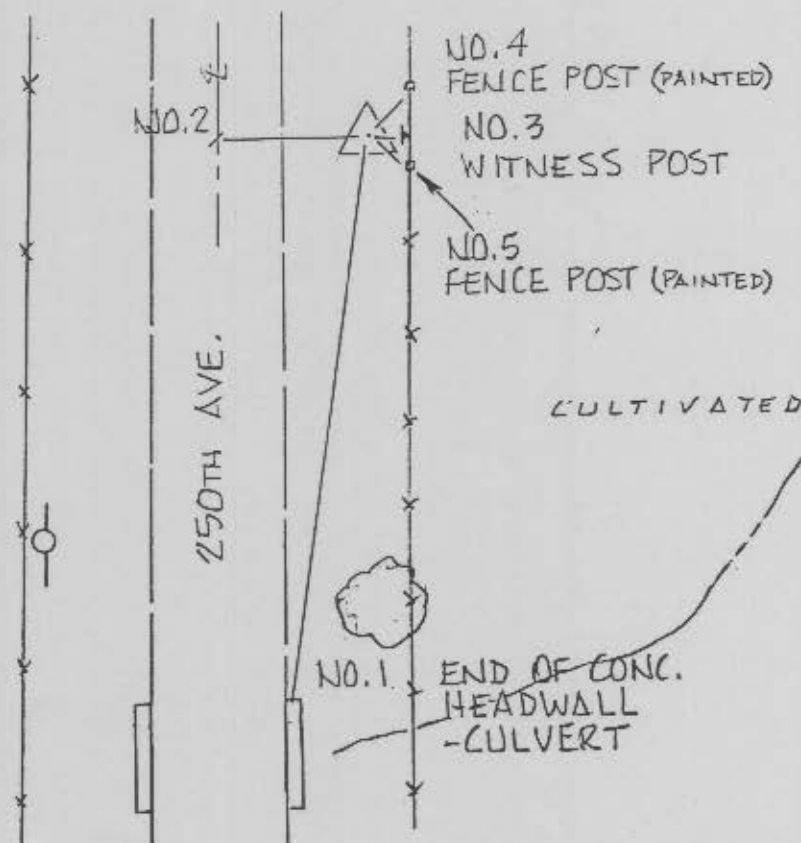
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1344.68

ELEVATION (METERS) 409.858

TIES

- No. 1 - 157.2'
- No. 2 - 31.0'
- No. 3 - 2.5'
- No. 4 - 9.8'
- No. 5 - 8.1'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963622 4 GPS No. 7051 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 22 TWP 96 N RGE 36 W USGS QUAD MAP DICKENS

TO REACH FROM _____

IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 360TH STREET / U.S. HIGHWAY 18
AND 250TH AVENUE.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE SCALE FACTOR: 0.99997743

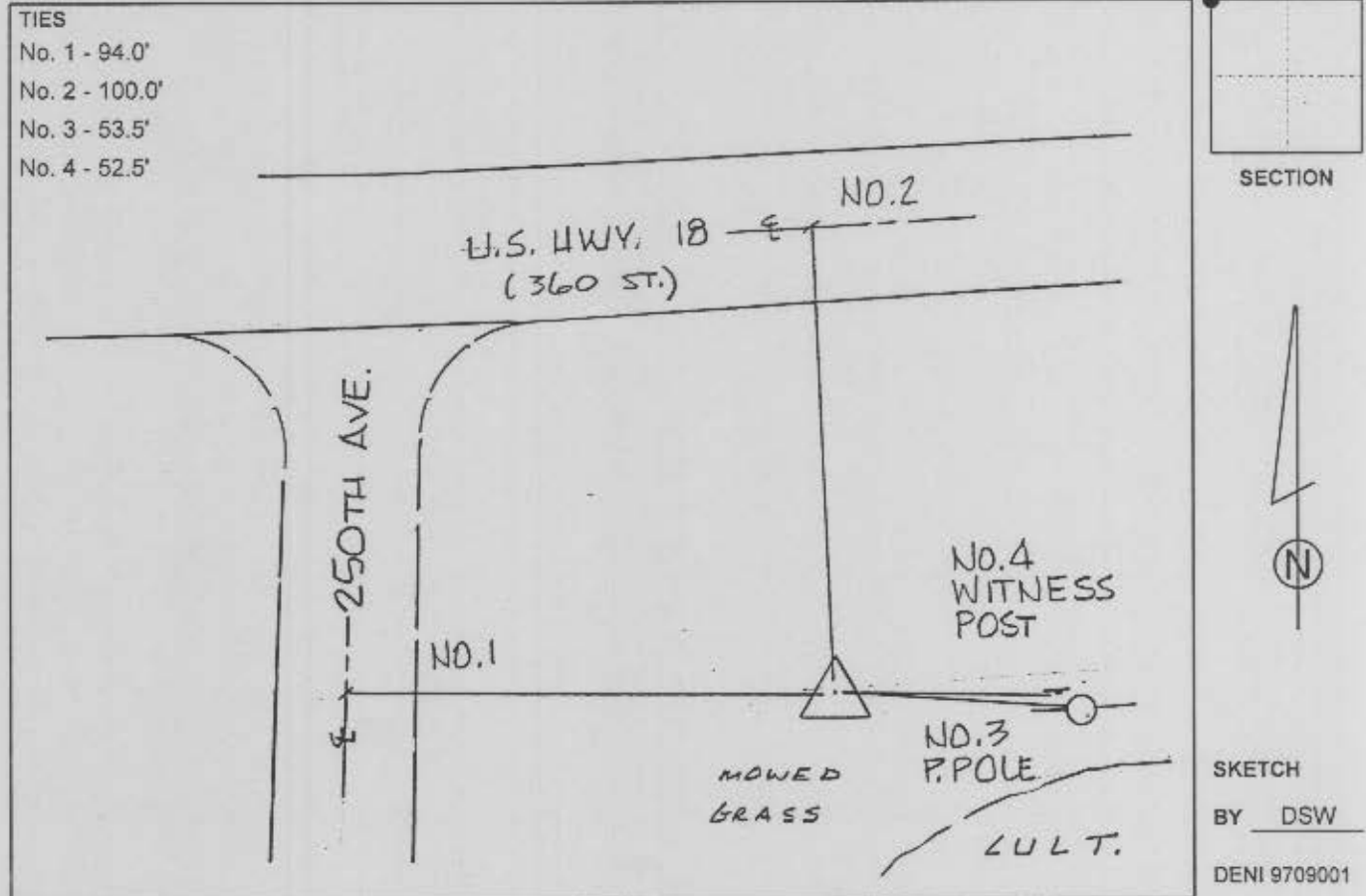
COORDINATES (US FEET) COORDINATES (METERS)

NORTHING (Y) 3877652.344 NORTHING (Y) 1181910.798

EASTING (X) 4496171.098 EASTING (X) 1370435.692

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1353.13 ELEVATION (METERS) 412.436



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963604 1 GPS No. 7052 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 4 TWP 96 N RGE 36 W USGS QUAD MAP DICKENS

TO REACH FROM _____

AT THE "T" INTERSECTION TO NORTH OF 330TH STREET AND 250TH AVENUE.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99998362

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3893074.811

NORTHING (Y) 1186611.576

EASTING (X) 4496439.919

EASTING (X) 1370517.628

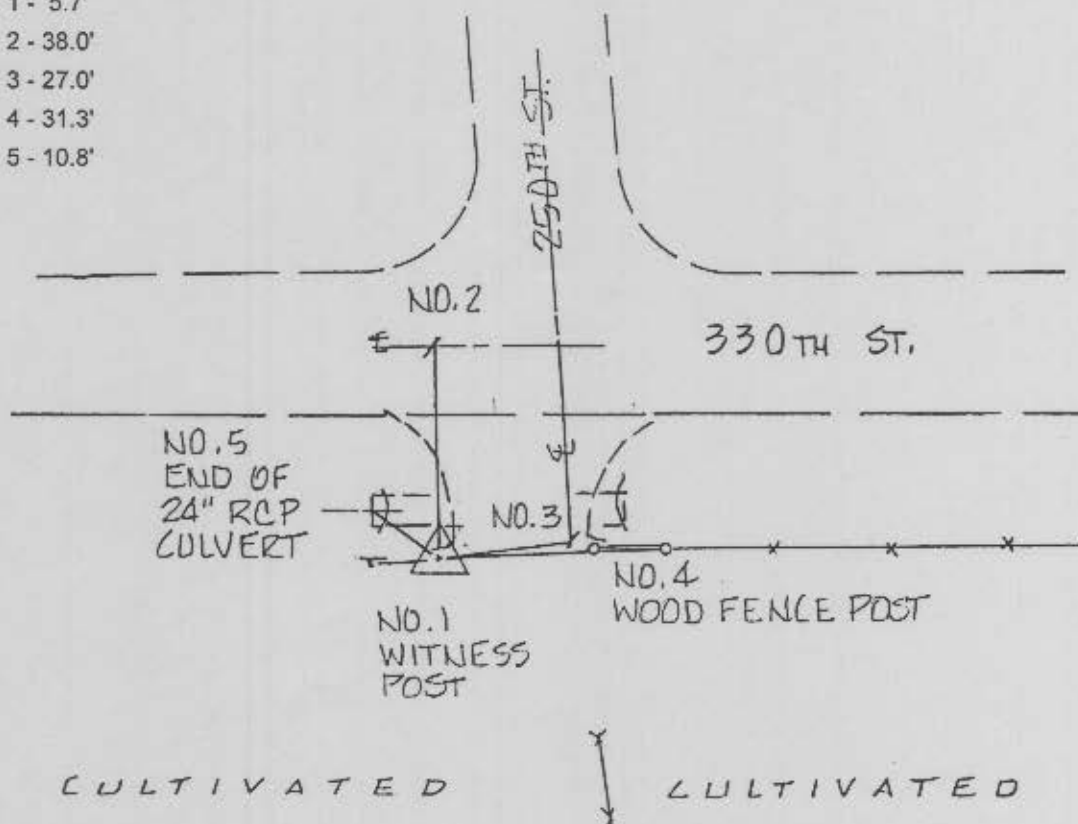
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1316.33

ELEVATION (METERS) 401.219

TIES

- No. 1 - 5.7'
- No. 2 - 38.0'
- No. 3 - 27.0'
- No. 4 - 31.3'
- No. 5 - 10.8'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973621 1 GPS No. 7053 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 21 TWP 97 N RGE 36 W USGS QUAD MAP DICKENS
TO REACH FROM THE INTERSECTION OF 300TH STREET / COUNTY ROAD B17 AND 250TH AVENUE;
GO SOUTH 485 FEET, MORE OR LESS, TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999045

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3908700.482

NORTHING (Y) 1191374.290

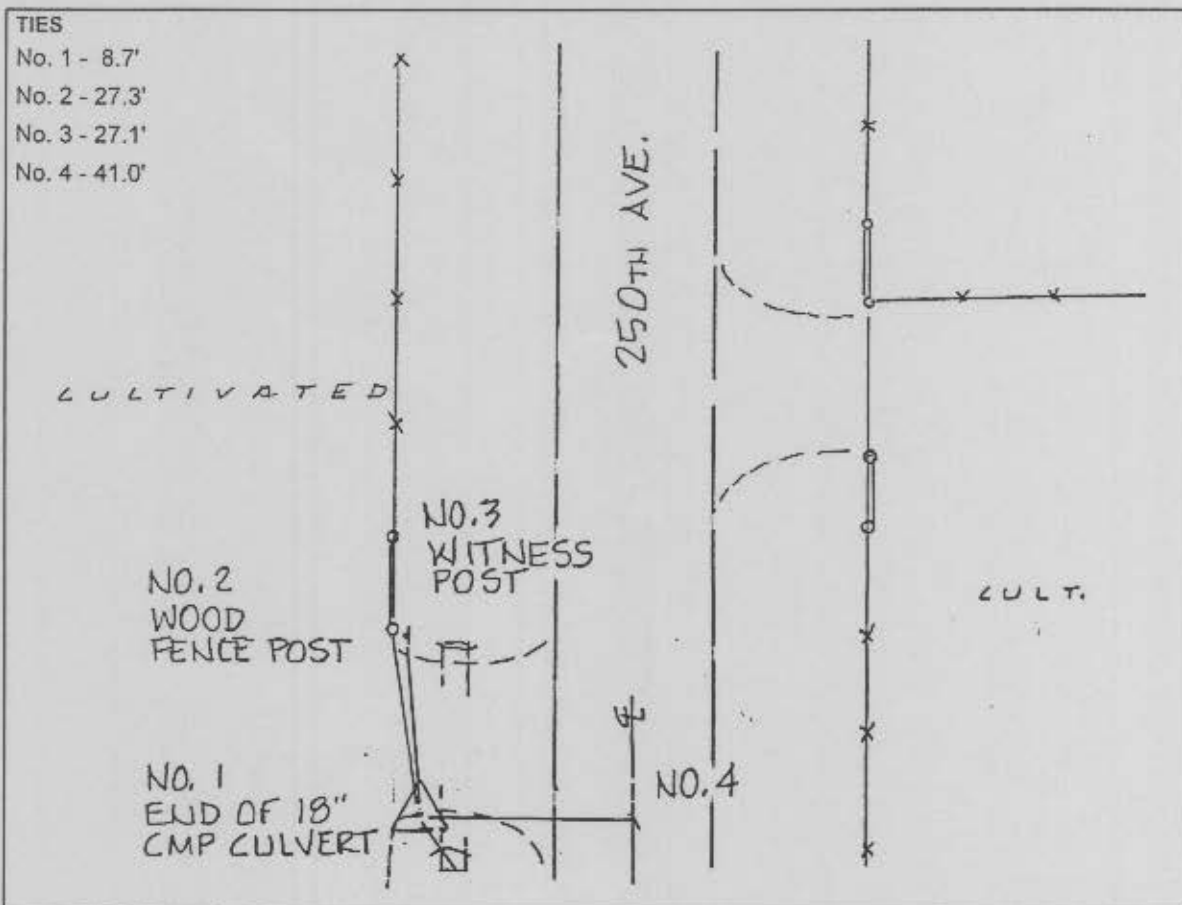
EASTING (X) 4496903.057

EASTING (X) 1370658.793

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1357.38

ELEVATION (METERS) 413.729



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973604 1 GPS No. 7054 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 4 TWP 97 N RGE 36 W USGS QUAD MAP SPIRIT LAKE SE

TO REACH FROM _____

AT THE "T" INTERSECTION TO EAST OF 270TH STREET (CLAY - DICKINSON COUNTY LINE)

AND 250TH AVENUE.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999797

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3924571.940

NORTHING (Y) 1196211.920

EASTING (X) 4497043.424

EASTING (X) 1370701.577

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1461.77

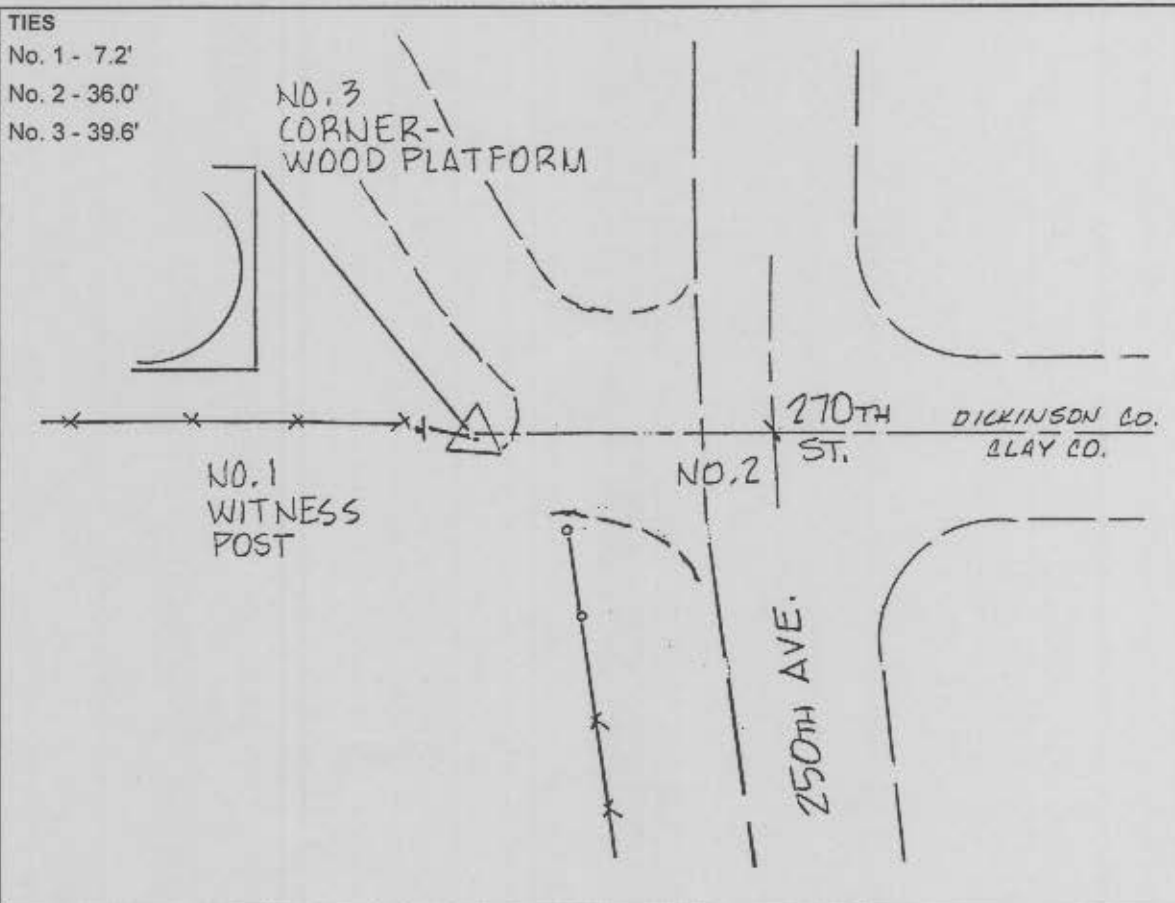
ELEVATION (METERS) 445.548

TIES

No. 1 - 7.2'

No. 2 - 36.0'

No. 3 - 39.6'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973506 4 GPS No. 7055 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 6 TWP 97 N RGE 35 W USGS QUAD MAP SPIRIT LAKE SE
TO REACH FROM THE INTERSECTION OF 270TH STREET (CLAY - DICKINSON COUNTY LINE) AND
270TH AVENUE; GO SOUTH 500 FEET, MORE OR LESS, TO SOUTHWEST CORNER OF FARM CORRAL AREA.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

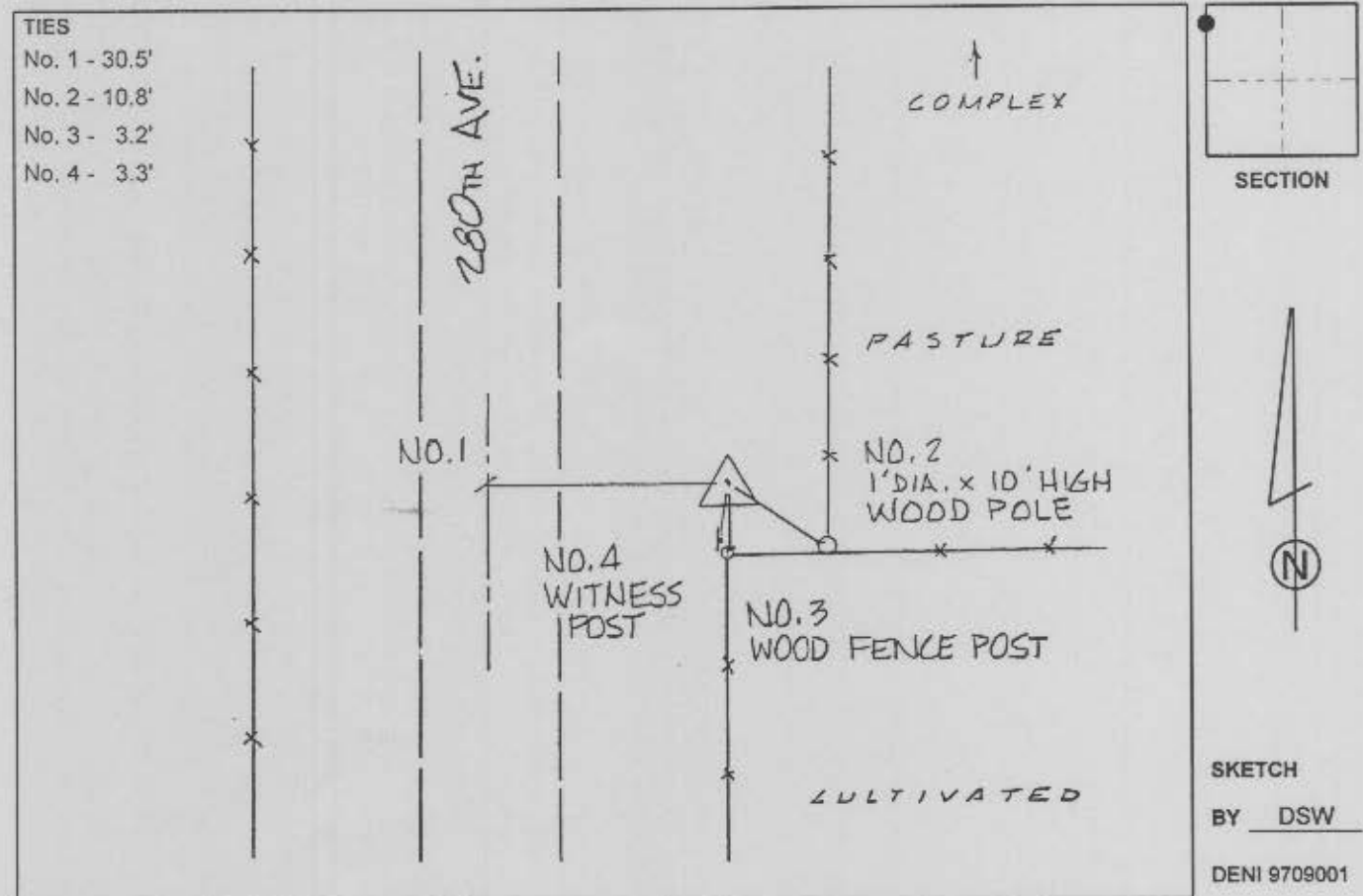
☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE	SCALE FACTOR: <u>0.99999771</u>
COORDINATES (US FEET)	COORDINATES (METERS)
NORTHING (Y) <u>3923744.919</u>	NORTHING (Y) <u>1195959.843</u>
EASTING (X) <u>4512924.939</u>	EASTING (X) <u>1375542.272</u>

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) <u>1402.99</u>	ELEVATION (METERS) <u>427.631</u>
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GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973518 3 GPS No. 7056 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 18 TWP 97 N RGE 35 W USGS QUAD MAP DICKENS

TO REACH FROM _____
IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF 300TH STREET / COUNTY ROAD B17
AND 280TH AVENUE.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1995 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999062

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3908781.009

NORTHING (Y) 1191398.834

EASTING (X) 4512621.798

EASTING (X) 1375449.875

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1376.44

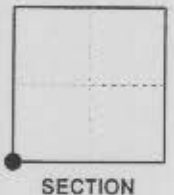
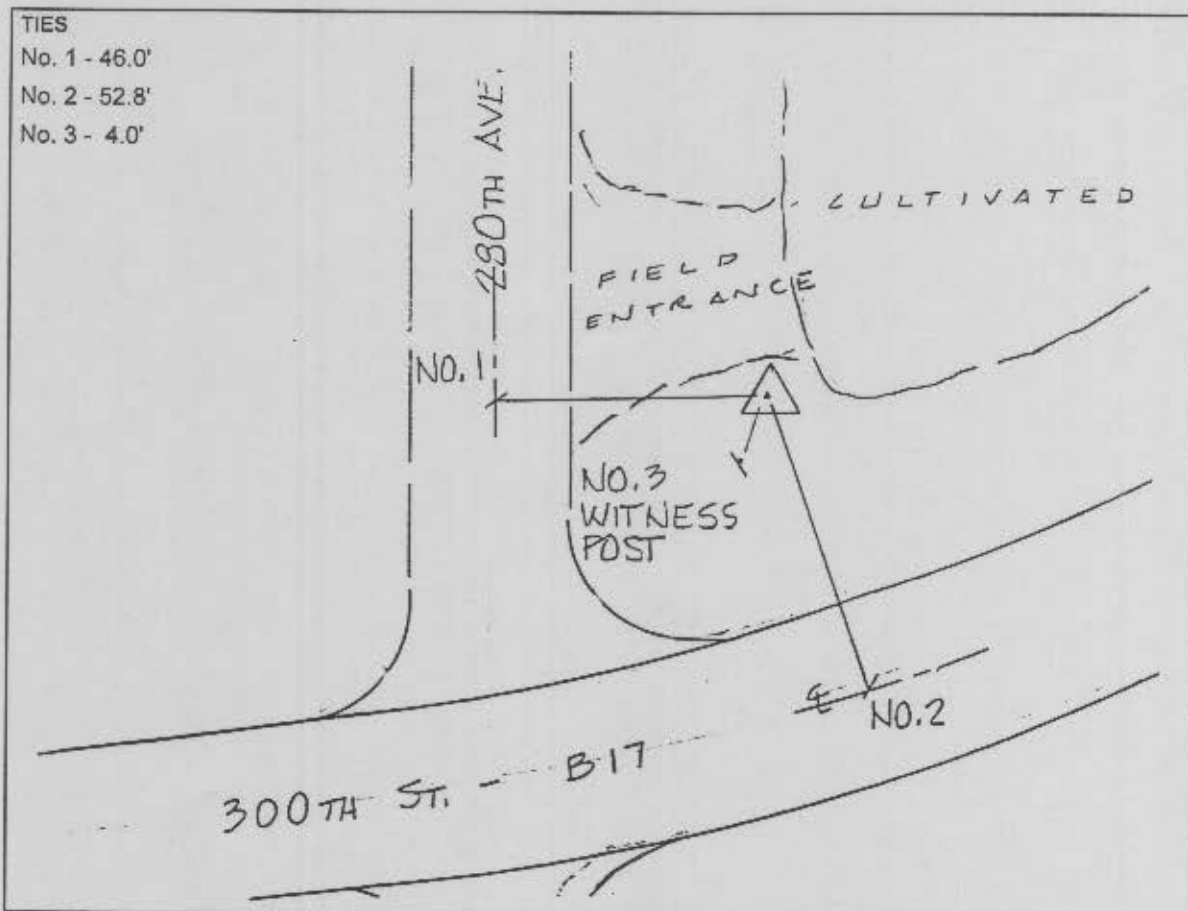
ELEVATION (METERS) 419.539

TIES

No. 1 - 46.0'

No. 2 - 52.8'

No. 3 - 4.0'



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973531 3 GPS No. 7057 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 31 TWP 97 N RGE 35 W USGS QUAD MAP DICKENS

TO REACH FROM _____

AT THE "T" INTERSECTION TO WEST OF 330TH STREET AND

280TH AVENUE IN THE NORTHWEST QUADRANT.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99998365

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3892853.573

NORTHING (Y) 1186544.142

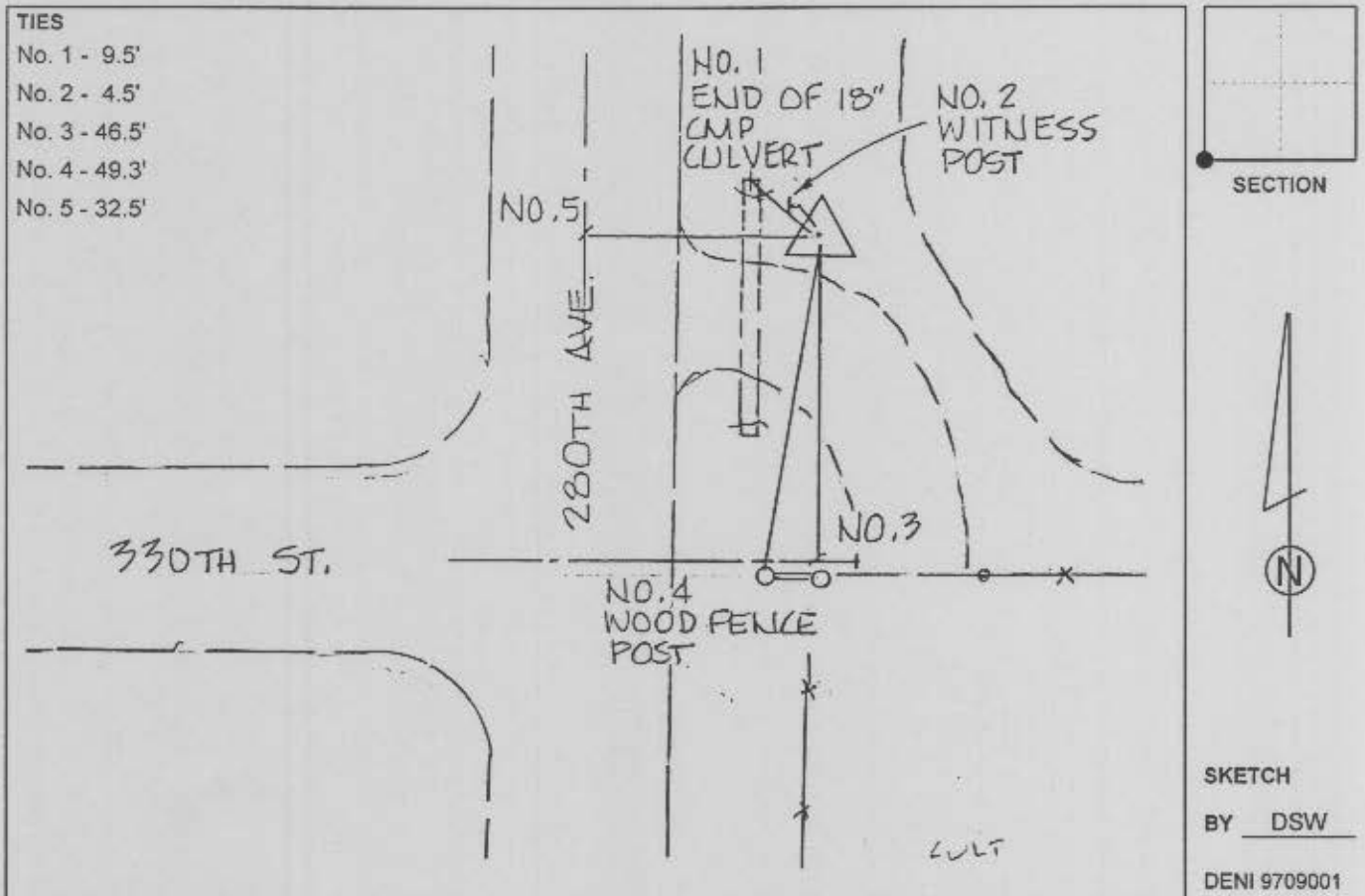
EASTING (X) 4512303.290

EASTING (X) 1375352.793

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1345.06

ELEVATION (METERS) 409.974



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963613 2 GPS No. 7058 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 13 TWP 96 N RGE 36 W USGS QUAD MAP DICKENS
TO REACH FROM _____
IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF 360TH STREET / U.S. HIGHWAY 18
AND 280TH AVENUE / COUNTY ROAD M54.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997748

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3877511.667

NORTHING (Y) 1181867.920

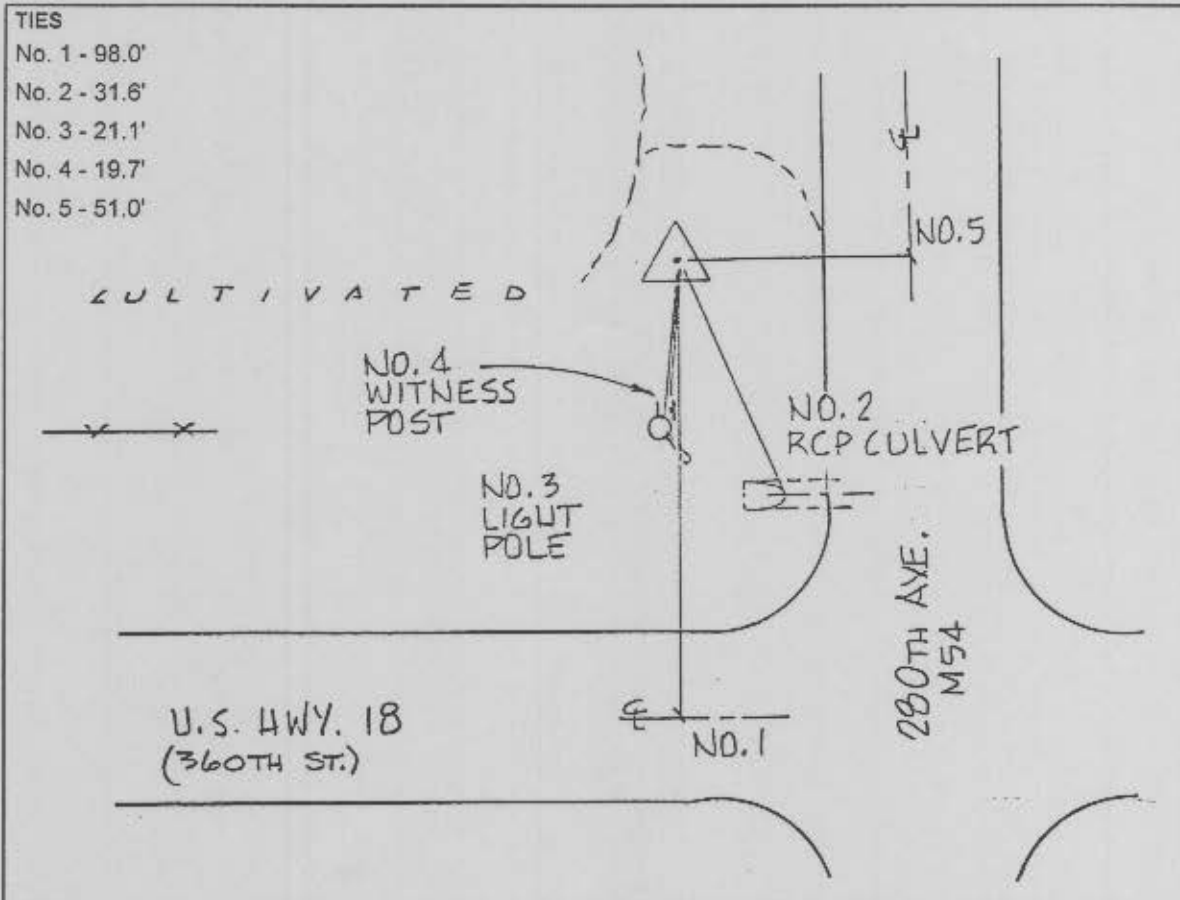
EASTING (X) 4511941.826

EASTING (X) 1375242.619

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1309.23

ELEVATION (METERS) 399.053



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963636 2 GPS No. 7059 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 36 TWP 96 N RGE 36 W USGS QUAD MAP GILLETT GROVE

TO REACH FROM _____

IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF 390TH STREET / COUNTY ROAD B40

AND 280TH AVENUE / COUNTY ROAD M54.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997169

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3861685.840

NORTHING (Y) 1177044.198

EASTING (X) 4511676.615

EASTING (X) 1375161.783

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1374.07

ELEVATION (METERS) 418.817

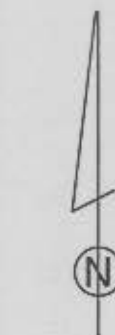
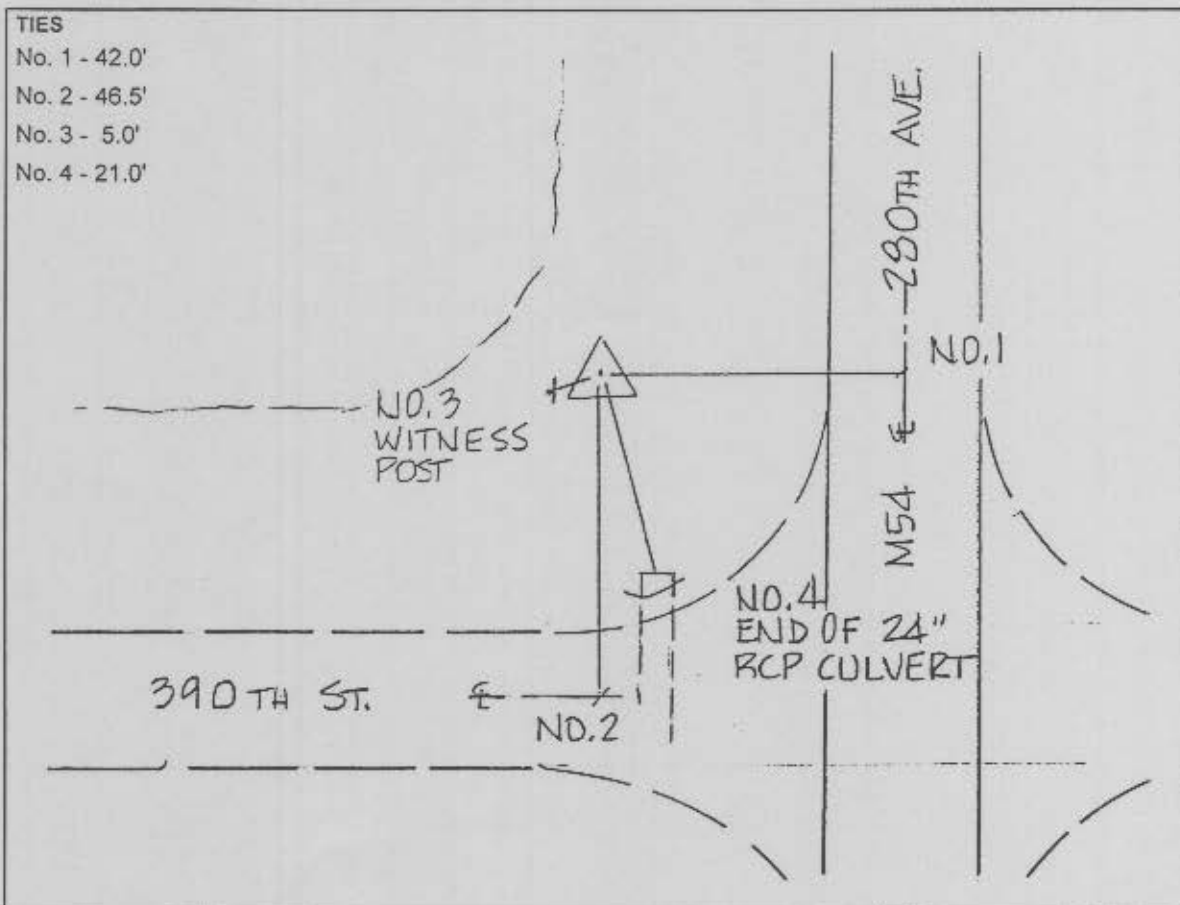
TIES

No. 1 - 42.0'

No. 2 - 46.5'

No. 3 - 5.0'

No. 4 - 21.0'



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953519 4 GPS No. 7060 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 19 TWP 95 N RGE 35 W USGS QUAD MAP GILLETT GROVE

TO REACH FROM _____

AT THE "T" INTERSECTION TO EAST OF 420TH STREET AND

280TH AVENUE / COUNTY ROAD M54, IN THE SOUTHEAST QUADRANT.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996637

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3845505.017

NORTHING (Y) 1172112.274

EASTING (X) 4511458.038

EASTING (X) 1375095.160

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1383.69

ELEVATION (METERS) 421.749

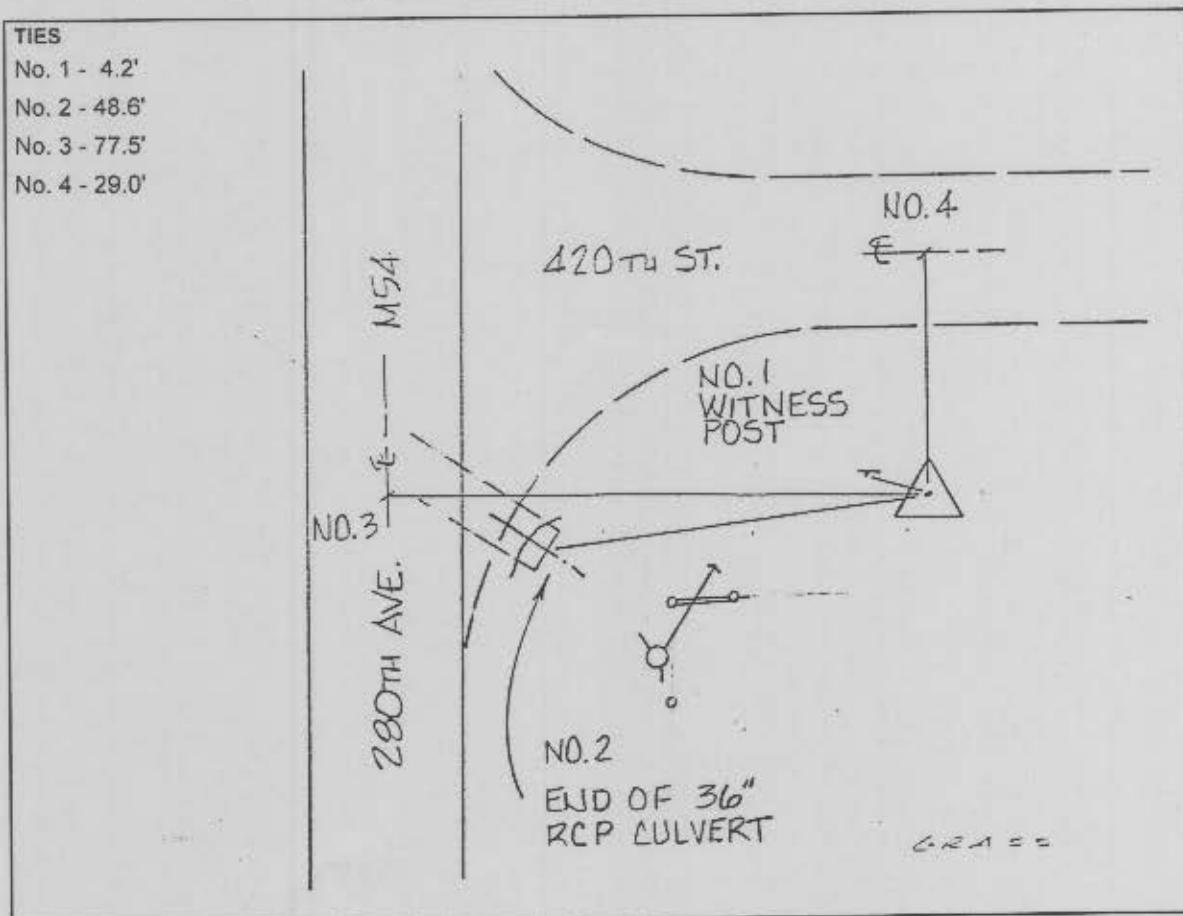
TIES

No. 1 - 4.2'

No. 2 - 48.6'

No. 3 - 77.5'

No. 4 - 29.0'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953636 2 GPS No. 7061 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 36 TWP 95 N RGE 36 W USGS QUAD MAP WEBB

TO REACH FROM _____

IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF 450TH STREET

AND 280TH AVENUE.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996177

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3829783.261

NORTHING (Y) 1167320.273

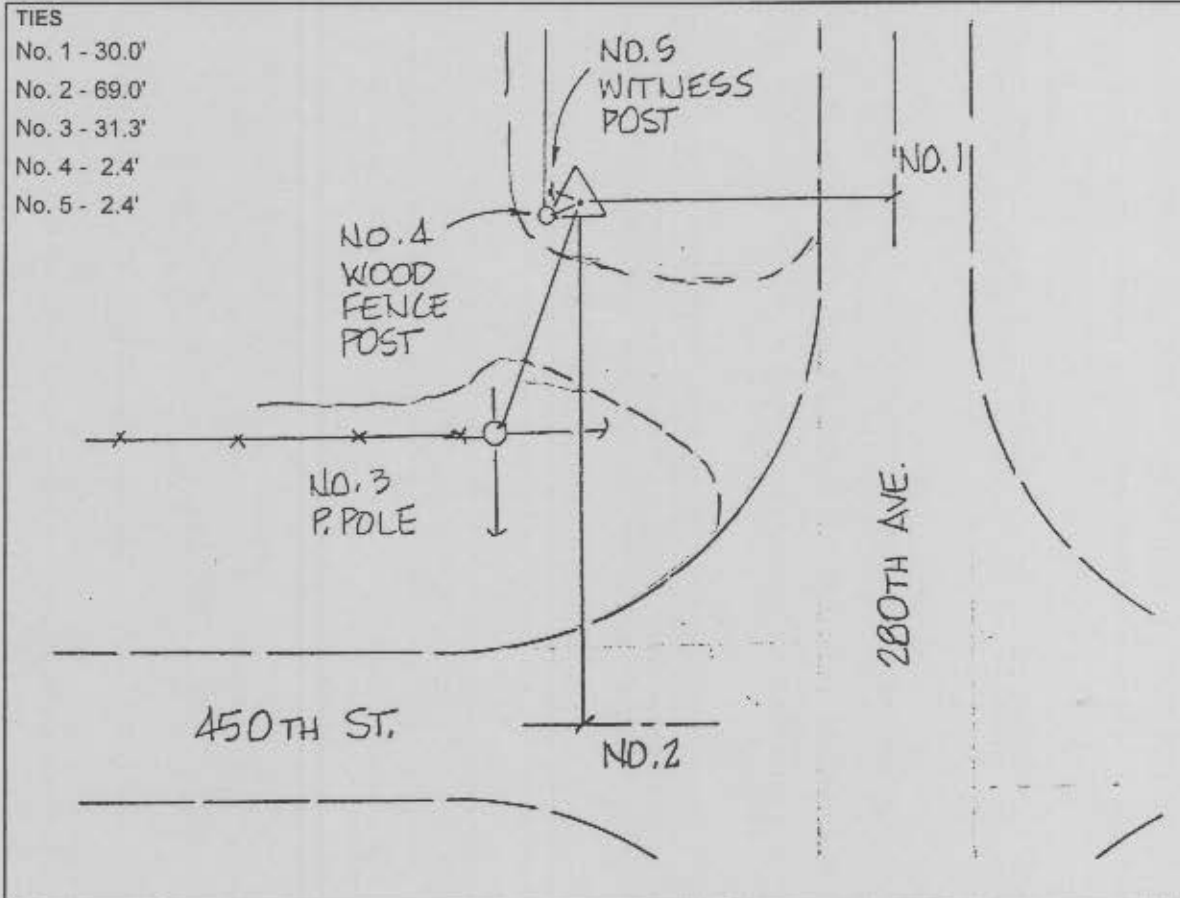
EASTING (X) 4511026.604

EASTING (X) 1374963.659

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1368.27

ELEVATION (METERS) 417.049



SKETCH
BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943613 2 GPS No. 7062 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 13 TWP 94 N RGE 36 W USGS QUAD MAP WEBB

TO REACH FROM _____

IN THE NORTHWEST QUADRANT OF A "T" INTERSECTION TO NORTH OF

480TH STREET / COUNTY ROAD B63 AND 280TH AVENUE.

RAILROAD IS SCHEDULED TO BE ABANDONED.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995778

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3814236.706

NORTHING (Y) 1162581.673

EASTING (X) 4510631.437

EASTING (X) 1374843.212

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1348.09

ELEVATION (METERS) 410.898

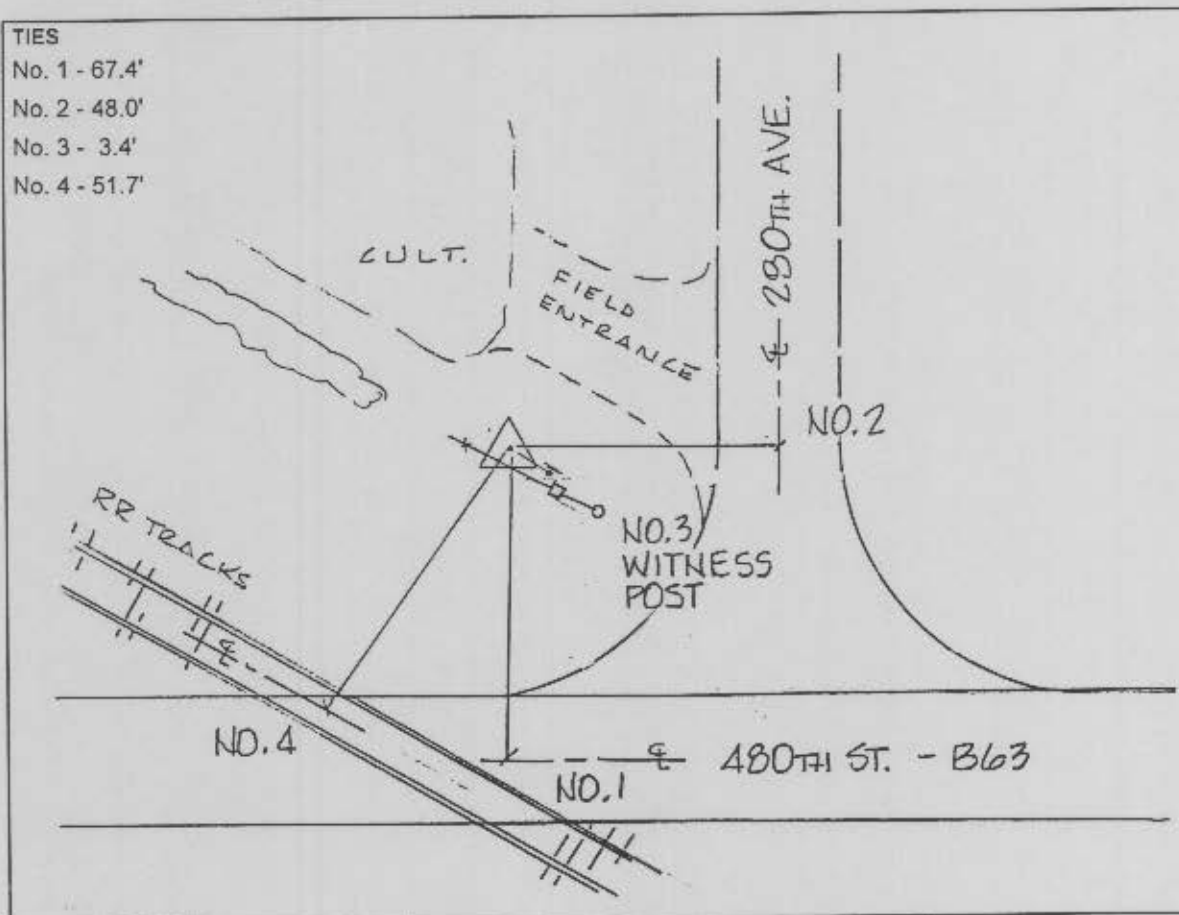
TIES

No. 1 - 67.4'

No. 2 - 48.0'

No. 3 - 3.4'

No. 4 - 51.7'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943531 3 GPS No. 7063 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 31 TWP 94 N RGE 35 W USGS QUAD MAP WEBB

TO REACH FROM _____
IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF 510TH STREET
(CLAY - BUENA VISTA COUNTY LINE) AND 280TH AVENUE.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE SCALE FACTOR: 0.99995428

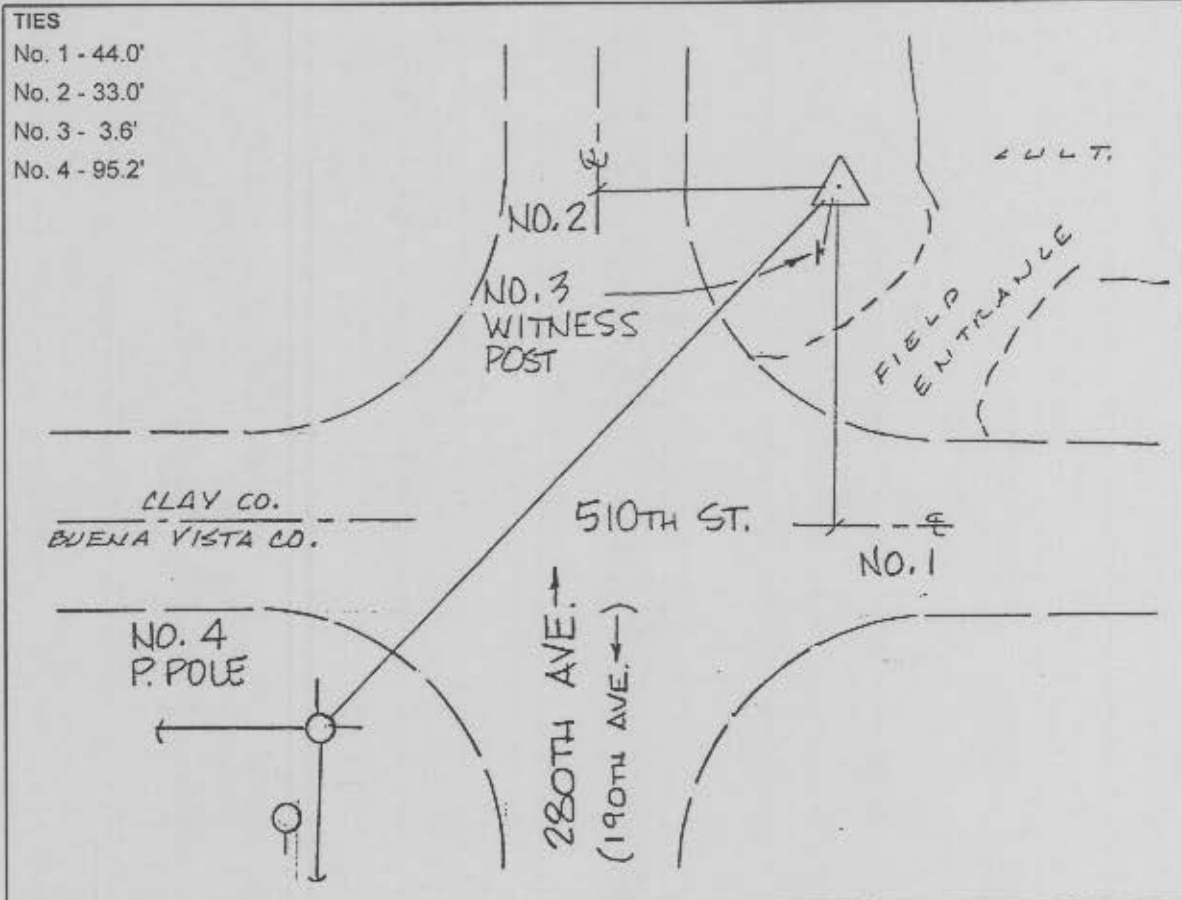
COORDINATES (US FEET) COORDINATES (METERS)

NORTHING (Y) 3798342.540 NORTHING (Y) 1157737.122

EASTING (X) 4510447.848 EASTING (X) 1374787.254

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1367.06 ELEVATION (METERS) 416.681



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943533 2 GPS No. 7064 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 33 TWP 94 N RGE 35 W USGS QUAD MAP RUSH LAKE WEST
TO REACH FROM THE INTERSECTION OF 510TH STREET (CLAY - BUENA VISTA COUNTY LINE)
AND 310TH AVENUE; GO WEST 0.25 MILE TO RAILROAD CROSSING AND MARK, IN THE NORTHWEST
QUADRANT OF STREET AND RAILROAD TRACKS.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995428

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3798065.425

NORTHING (Y) 1157652.657

EASTING (X) 4525263.690

EASTING (X) 1379303.131

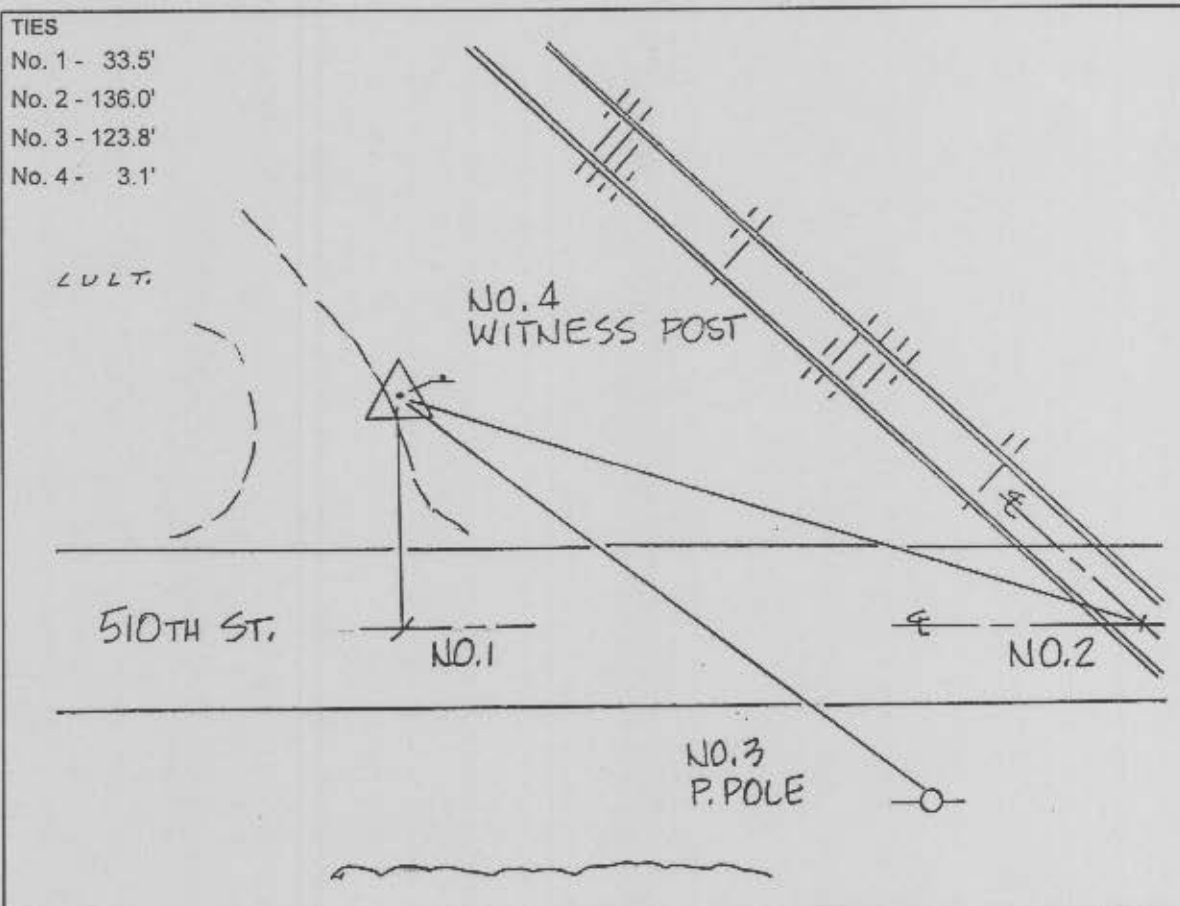
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1360.26

ELEVATION (METERS) 414.609

TIES

- No. 1 - 33.5'
- No. 2 - 136.0'
- No. 3 - 123.8'
- No. 4 - 3.1'



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943522 4 GPS No. 7065 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 22 TWP 94 N RGE 35 W USGS QUAD MAP RUSH LAKE WEST
TO REACH FROM THE INTERSECTION OF 480TH STREET / COUNTY ROAD B63 AND
310TH AVENUE; GO SOUTH 300 FEET, MORE OR LESS, TO FIELD ENTRANCE TO EAST AND MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

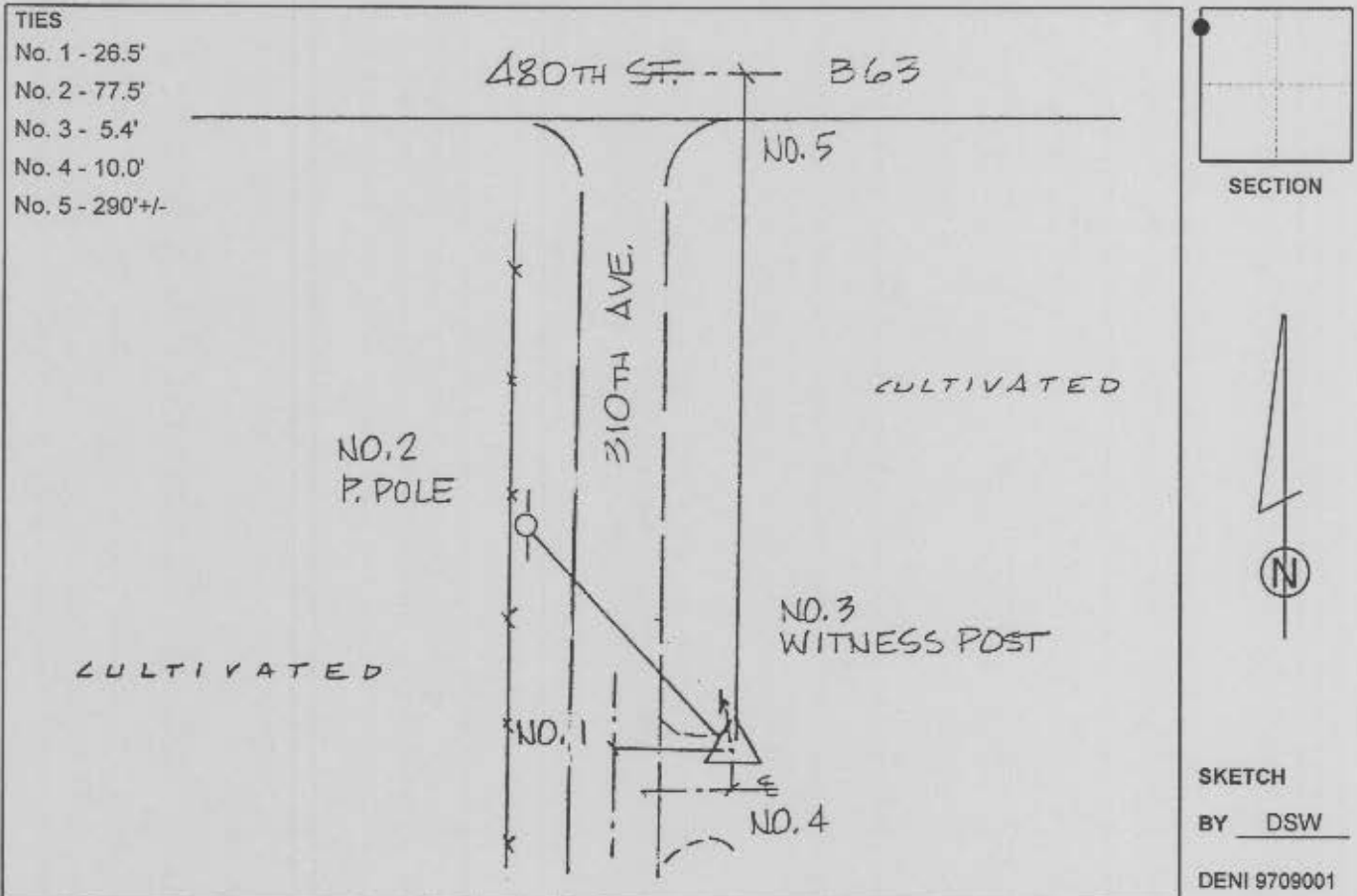
☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE	SCALE FACTOR: <u>0.99995769</u>
COORDINATES (US FEET)	COORDINATES (METERS)
NORTHING (Y) <u>3813537.351</u>	NORTHING (Y) <u>1162368.509</u>
EASTING (X) <u>4526879.245</u>	EASTING (X) <u>1379795.553</u>

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) <u>1393.53</u>	ELEVATION (METERS) <u>424.748</u>
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GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943515 3 GPS No. 7067 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 15 TWP 95 N RGE 35 W USGS QUAD MAP SILVER LAKE

TO REACH FROM _____

IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF 420TH STREET

AND 310TH AVENUE / COUNTY ROAD N14.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996637

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3845215.854

NORTHING (Y) 1172024.136

EASTING (X) 4527425.560

EASTING (X) 1379962.071

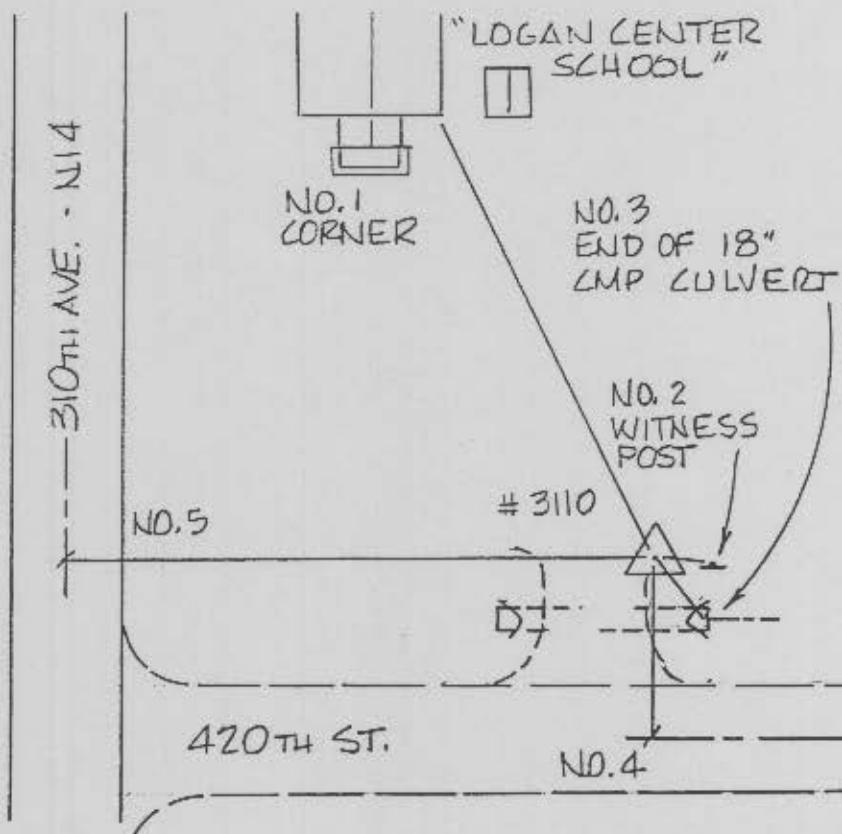
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1438.32

ELEVATION (METERS) 438.402

TIES

- No. 1 - 95.8'
- No. 2 - 8.7'
- No. 3 - 12.4'
- No. 4 - 38.0'
- No. 5 - 112.8'



SKETCH
BY DSW
DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963534 3 GPS No. 7068 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 34 TWP 96 N RGE 35 W USGS QUAD MAP SILVER LAKE

TO REACH FROM _____

IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF 390TH STREET / COUNTY ROAD B40

AND 310TH AVENUE / COUNTY ROAD N14.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997166

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3861294.799

NORTHING (Y) 1176925.009

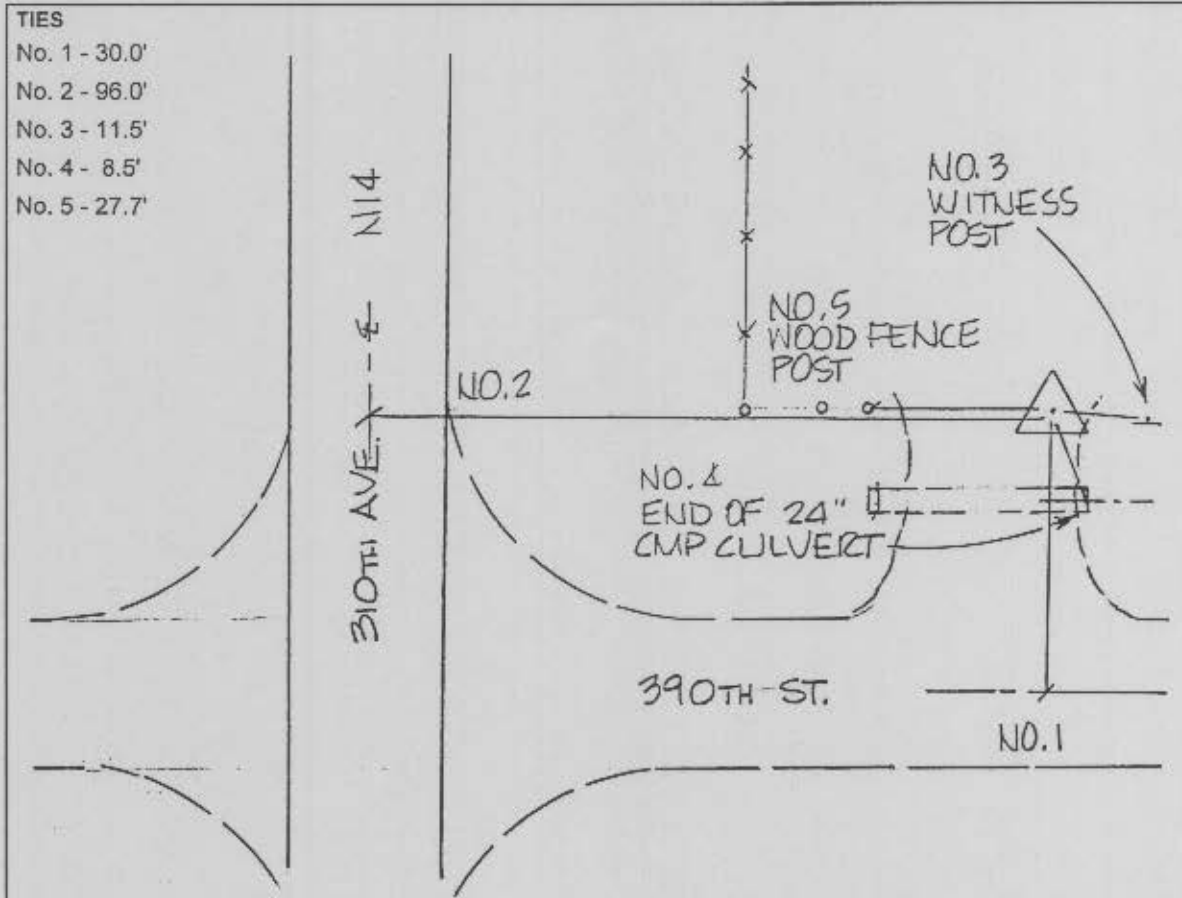
EASTING (X) 4527878.814

EASTING (X) 1380100.223

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1384.34

ELEVATION (METERS) 421.948



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963522 4 GPS No. 7069 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 22 TWP 96 N RGE 35 W USGS QUAD MAP RUTHVEN

TO REACH FROM _____

IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 360TH STREET / U.S. HIGHWAY 18

AND 310TH AVENUE / COUNTY ROAD N14.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997733

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3876829.943

NORTHING (Y) 1181660.130

EASTING (X) 4528239.872

EASTING (X) 1380210.273

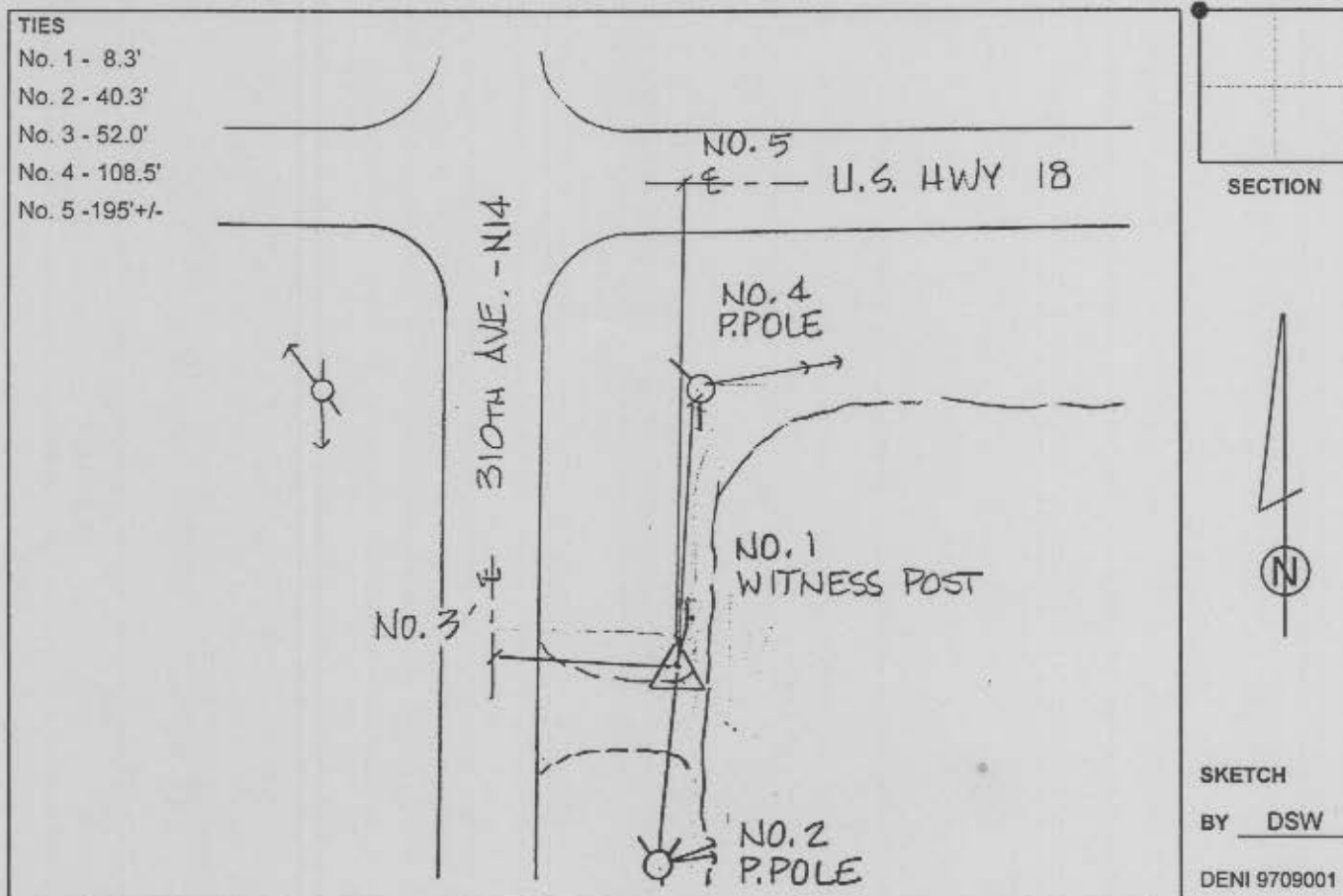
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1339.93

ELEVATION (METERS) 408.410

TIES

- No. 1 - 8.3'
- No. 2 - 40.3'
- No. 3 - 52.0'
- No. 4 - 108.5'
- No. 5 - 195'+/-



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973534 3 GPS No. 7070 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 34 TWP 97 N RGE 35 W USGS QUAD MAP RUTHVEN

TO REACH FROM THE INTERSECTION OF 335TH STREET AND 310TH AVENUE / COUNTY ROAD N14;

GO NORTH 0.5 MILE TO DOUBLE FIELD ENTRANCE TO EAST AND MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE SCALE FACTOR: 0.99998358

COORDINATES (US FEET) COORDINATES (METERS)

NORTHING (Y) 3892394.870 NORTHING (Y) 1186404.329

EASTING (X) 4528385.825 EASTING (X) 1380254.760

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1344.19 ELEVATION (METERS) 409.709

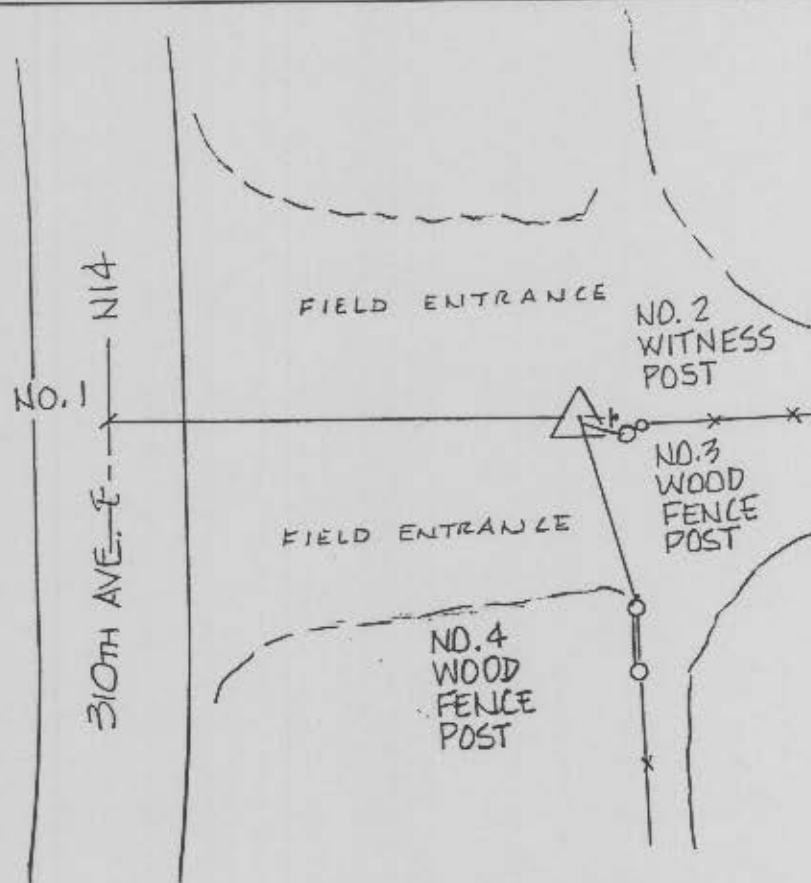
TIES

No. 1 - 76.3'

No. 2 - 2.7'

No. 3 - 3.2'

No. 4 - 23.5'



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973521 1 GPS No. 7071 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 21 TWP 97 N RGE 35 W USGS QUAD MAP RUTHVEN

TO REACH FROM _____

IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF 300TH STREET / COUNTY ROAD B17

AND 310TH AVENUE / COUNTY ROAD N14.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999096

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3909264.692

NORTHING (Y) 1191546.261

EASTING (X) 4527687.273

EASTING (X) 1380041.841

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1354.91

ELEVATION (METERS) 412.978

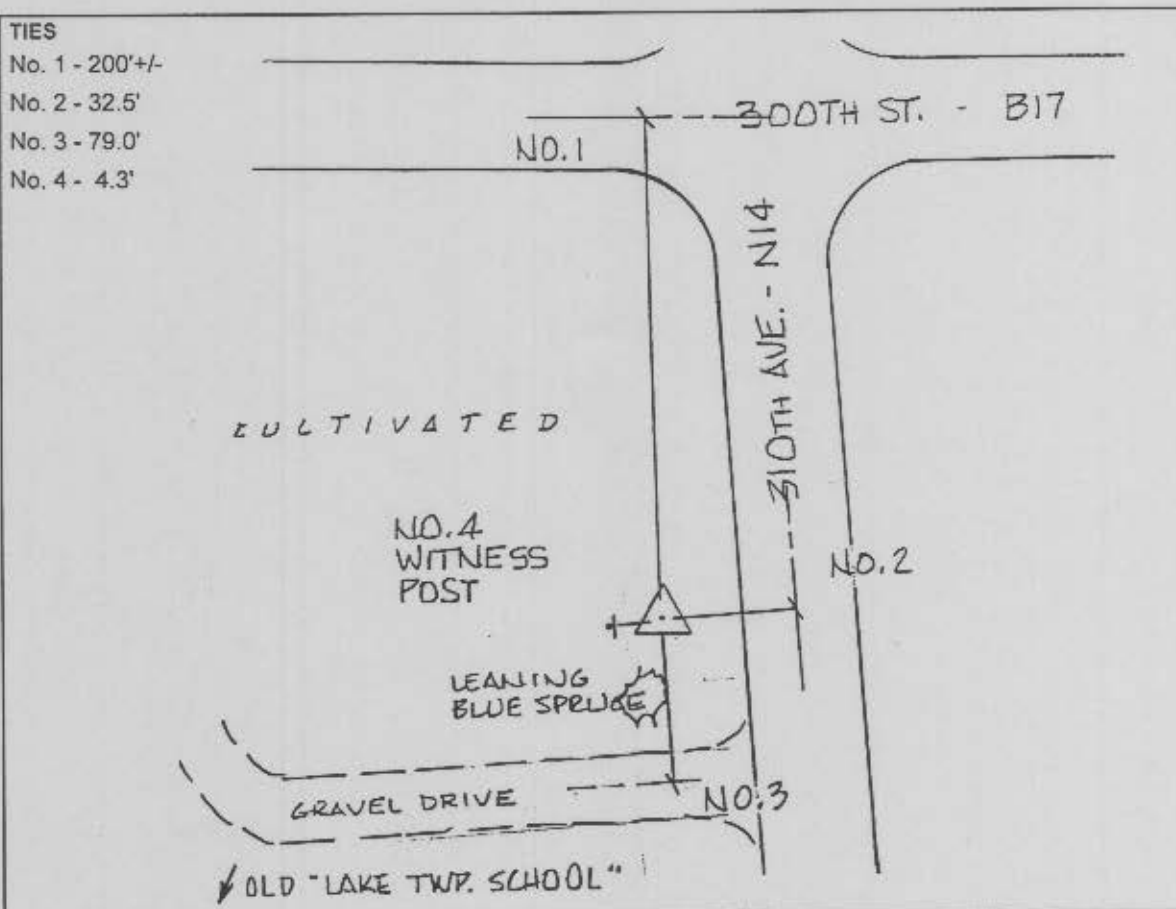
TIES

No. 1 - 200' +/-

No. 2 - 32.5'

No. 3 - 79.0'

No. 4 - 4.3'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973503 4 GPS No. 7072 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 3 TWP 97 N RGE 35 W USGS QUAD MAP TERRIL

TO REACH FROM THE INTERSECTION OF 270TH STREET (CLAY - DICKINSON COUNTY LINE)
AND 310TH STREET / COUNTY ROAD N14; GO EAST 265 FEET, MORE OR LESS, TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE SCALE FACTOR: 0.99999790

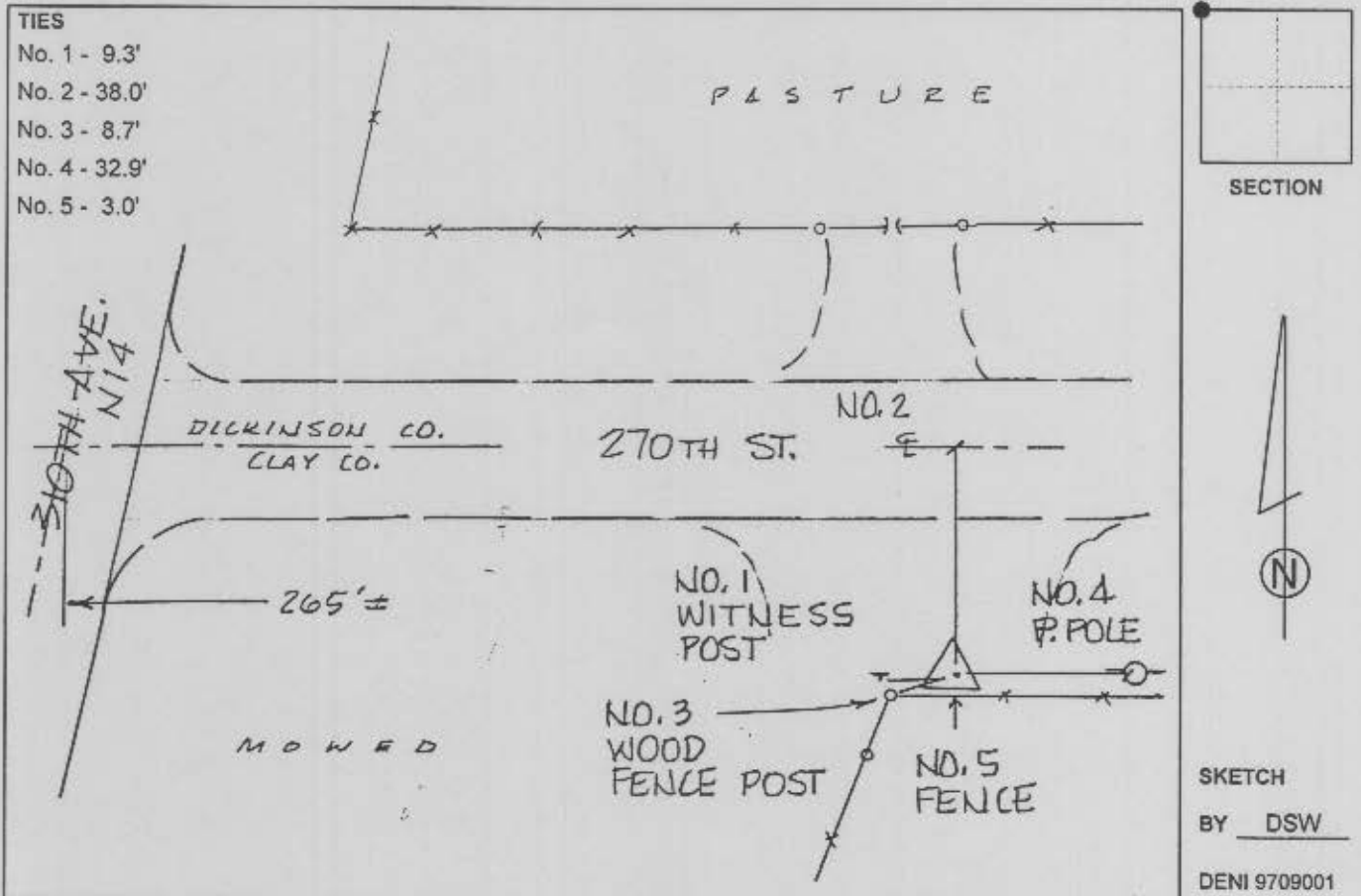
COORDINATES (US FEET) COORDINATES (METERS)

NORTHING (Y) 3923864.764 NORTHING (Y) 1195996.372

EASTING (X) 4528789.047 EASTING (X) 1380377.662

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1367.48 ELEVATION (METERS) 416.809



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973501 1 GPS No. 7073 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 1 TWP 97 N RGE 35 W USGS QUAD MAP TERRIL
TO REACH FROM THE INTERSECTION OF 270TH STREET (CLAY - DICKINSON COUNTY LINE)
AND 340TH STREET (CLAY - PALO ALTO COUNTY LINE); GO WEST 0.5 MILE TO FIELD ENTRANCES
NORTH AND SOUTH TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999789

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3923604.028

NORTHING (Y) 1195916.900

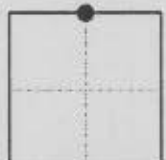
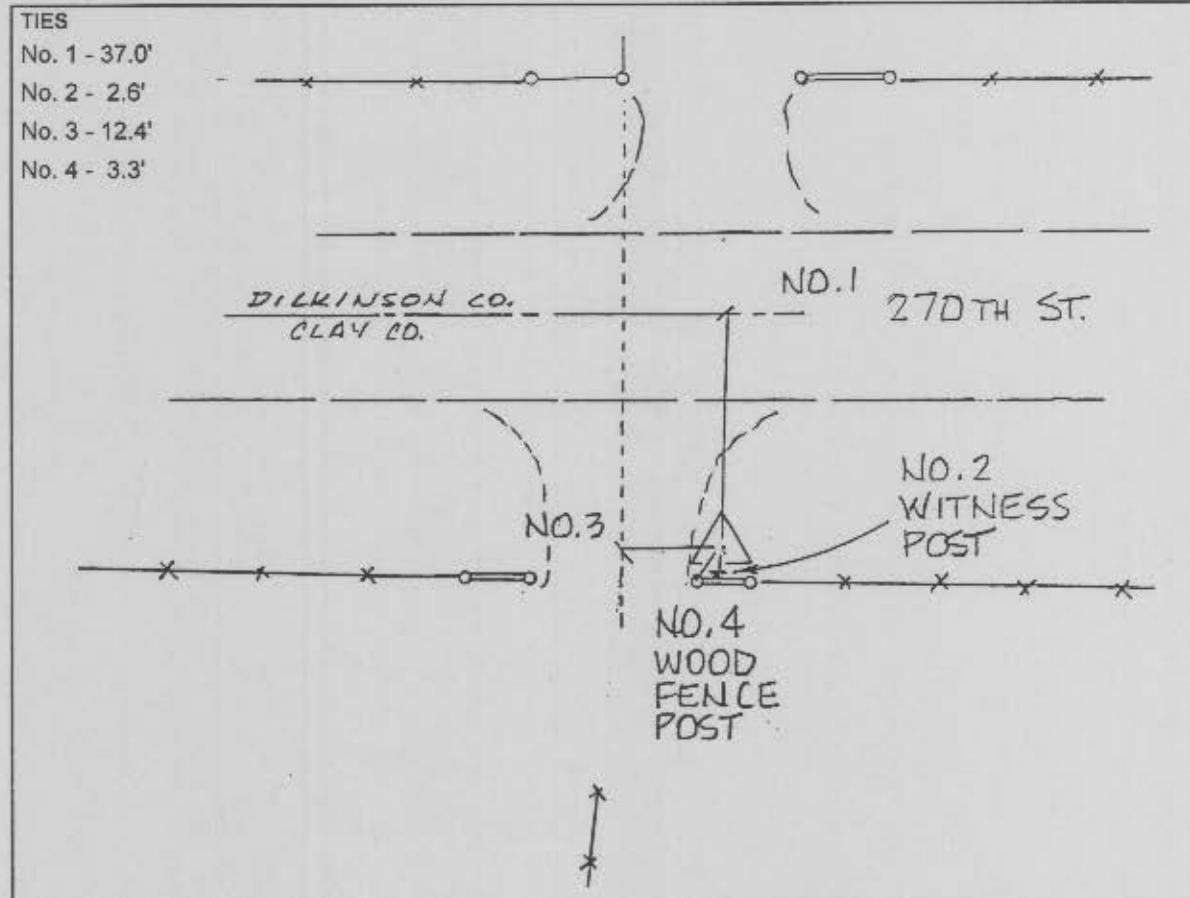
EASTING (X) 4541989.733

EASTING (X) 1384401.239

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1418.75

ELEVATION (METERS) 432.435



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 973513 2 GPS No. 7074 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 13 TWP 97 N RGE 35 W USGS QUAD MAP RUTHVEN

TO REACH FROM _____

IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF 300TH STREET / COUNTY ROAD B17

AND 340TH AVENUE (CLAY - PALO ALTO COUNTY LINE).

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999054

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3908055.189

NORTHING (Y) 1191177.604

EASTING (X) 4544360.962

EASTING (X) 1385123.992

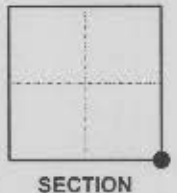
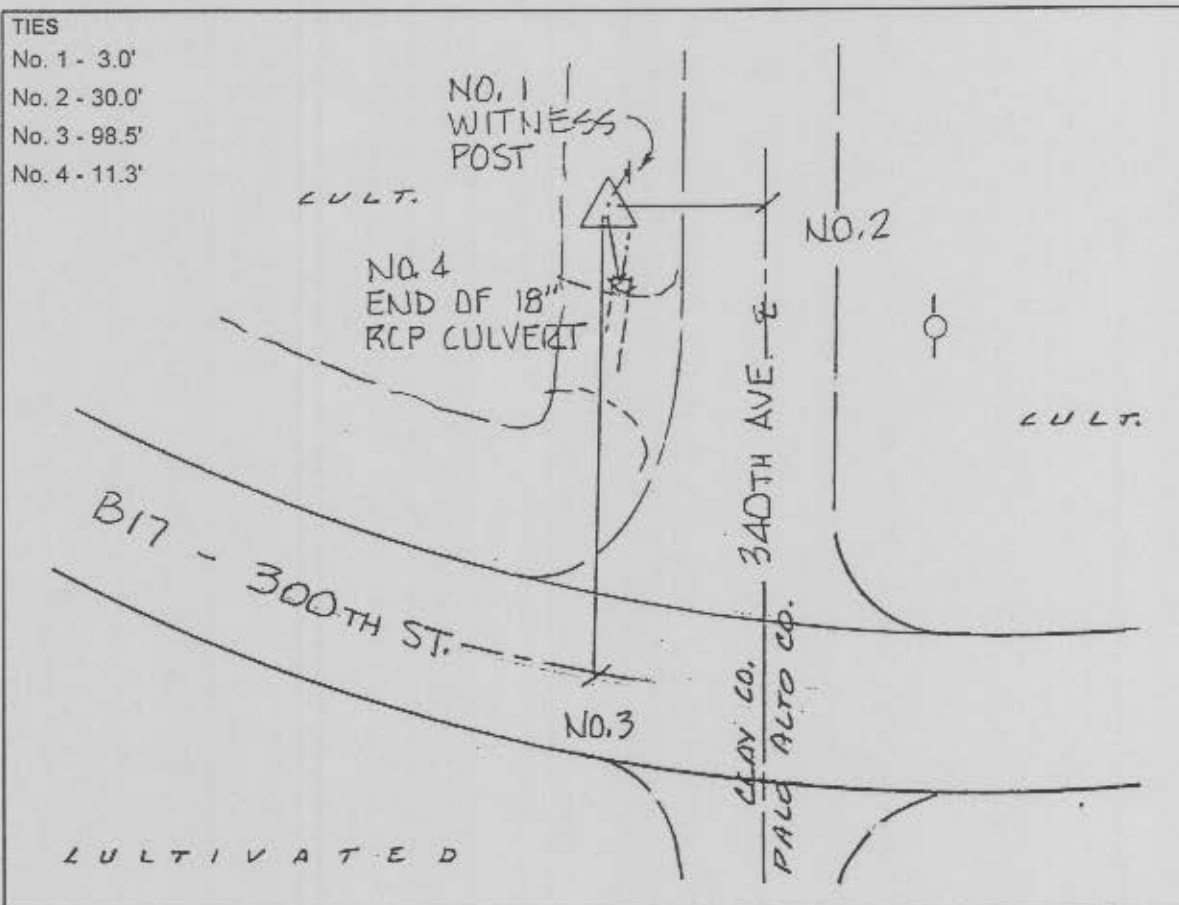
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1394.90

ELEVATION (METERS) 425.166

TIES

- No. 1 - 3.0'
- No. 2 - 30.0'
- No. 3 - 98.5'
- No. 4 - 11.3'



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963501 1 GPS No. 7075 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 1 TWP 96 N RGE 35 W USGS QUAD MAP RUTHVEN
TO REACH FROM _____
IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF 330TH STREET
AND 330TH AVENUE TO NORTH / COUNTY ROAD N18 / 340TH AVENUE TO SOUTH.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99998355

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3892119.405

NORTHING (Y) 1186320.367

EASTING (X) 4541607.389

EASTING (X) 1384284.701

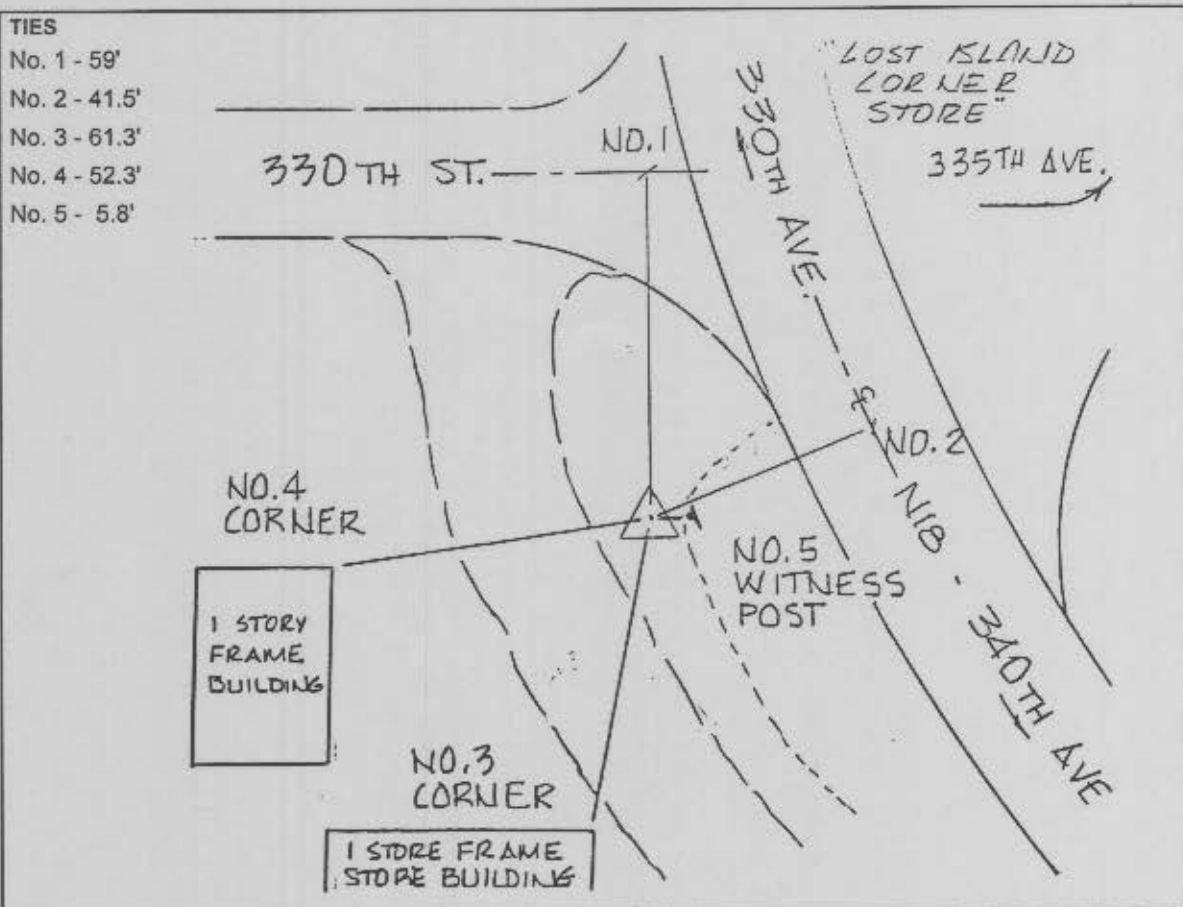
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1352.88

ELEVATION (METERS) 412.358

TIES

- No. 1 - 59'
- No. 2 - 41.5'
- No. 3 - 61.3'
- No. 4 - 52.3'
- No. 5 - 5.8'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963524 1 GPS No. 7076 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 24 TWP 96 N RGE 35 W USGS QUAD MAP SILVER LAKE
TO REACH FROM THE INTERSECTION OF 360TH STREET / U.S. HIGHWAY 18 AND
340TH AVENUE / COUNTY ROAD N18 (CLAY - PALO ALTO COUNTY LINE); GO SOUTH 0.15 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997708

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3875912.374

NORTHING (Y) 1181380.454

EASTING (X) 4543818.352

EASTING (X) 1384958.604

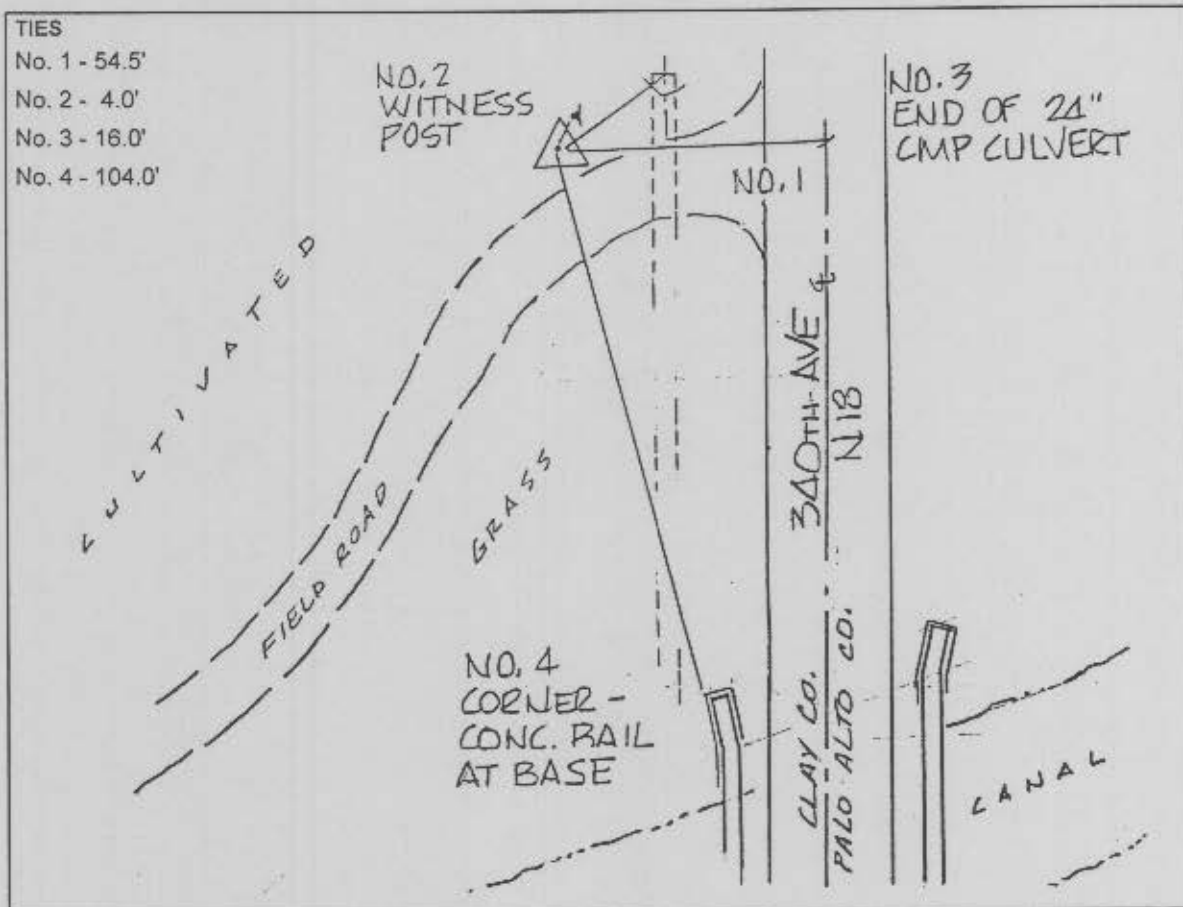
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1375.70

ELEVATION (METERS) 419.314

TIES

No. 1 - 54.5'
No. 2 - 4.0'
No. 3 - 16.0'
No. 4 - 104.0'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963536 2 GPS No. 7077 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 36 TWP 96 N RGE 35 W USGS QUAD MAP SILVER LAKE
TO REACH FROM AT THE "T" INTERSECTION TO EAST OF 390TH STREET / COUNTY ROAD B40
AND 340TH AVENUE / COUNTY ROAD N18 (CLAY - PALO ALTO COUNTY LINE).

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

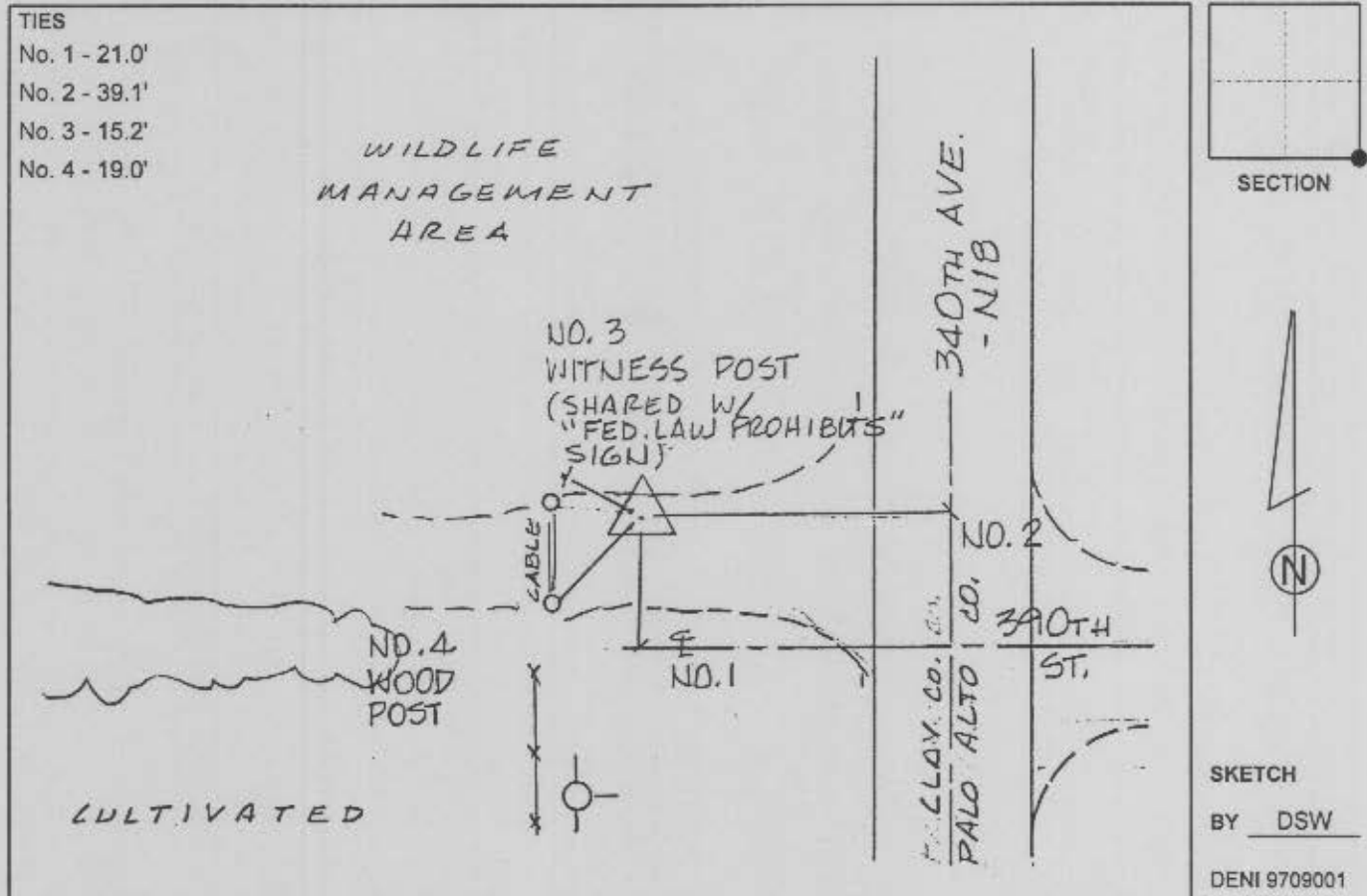
☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE	SCALE FACTOR: <u>0.99997162</u>
COORDINATES (US FEET)	COORDINATES (METERS)
NORTHING (Y) <u>3860933.058</u>	NORTHING (Y) <u>1176814.750</u>
EASTING (X) <u>4543584.752</u>	EASTING (X) <u>1384887.402</u>

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1412.69 ELEVATION (METERS) 430.588



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953513 2 GPS No. 7078 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 13 TWP 95 N RGE 35 W USGS QUAD MAP SILVER LAKE
TO REACH FROM THE INTERSECTION OF 420TH STREET AND 340TH AVENUE / COUNTY ROAD N18
(CLAY - PALO ALTO COUNTY LINE); GO WEST 275 FEET, MORE OR LESS, TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996636

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3844942.906

NORTHING (Y) 1171940.942

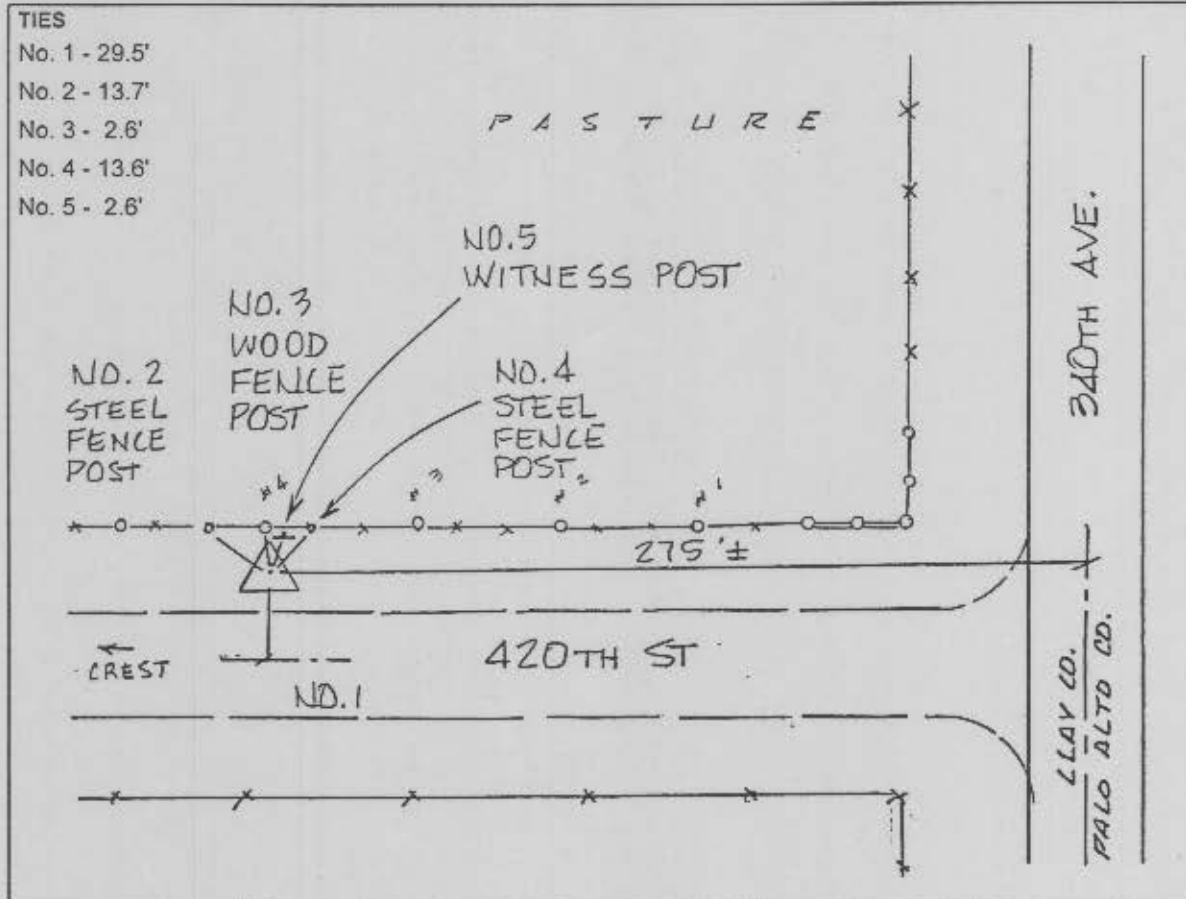
EASTING (X) 4543064.308

EASTING (X) 1384728.770

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1368.11

ELEVATION (METERS) 417.002



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943501 1 GPS No. 7079 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 1 TWP 94 N RGE 35 W USGS QUAD MAP RUSH LAKE WEST

TO REACH FROM _____

IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF 450TH STREET

AND 340TH AVENUE (CLAY - PALO ALTO COUNTY LINE)

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996172

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3829058.784

NORTHING (Y) 1167099.452

EASTING (X) 4542835.192

EASTING (X) 1384658.936

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1381.91

ELEVATION (METERS) 421.206

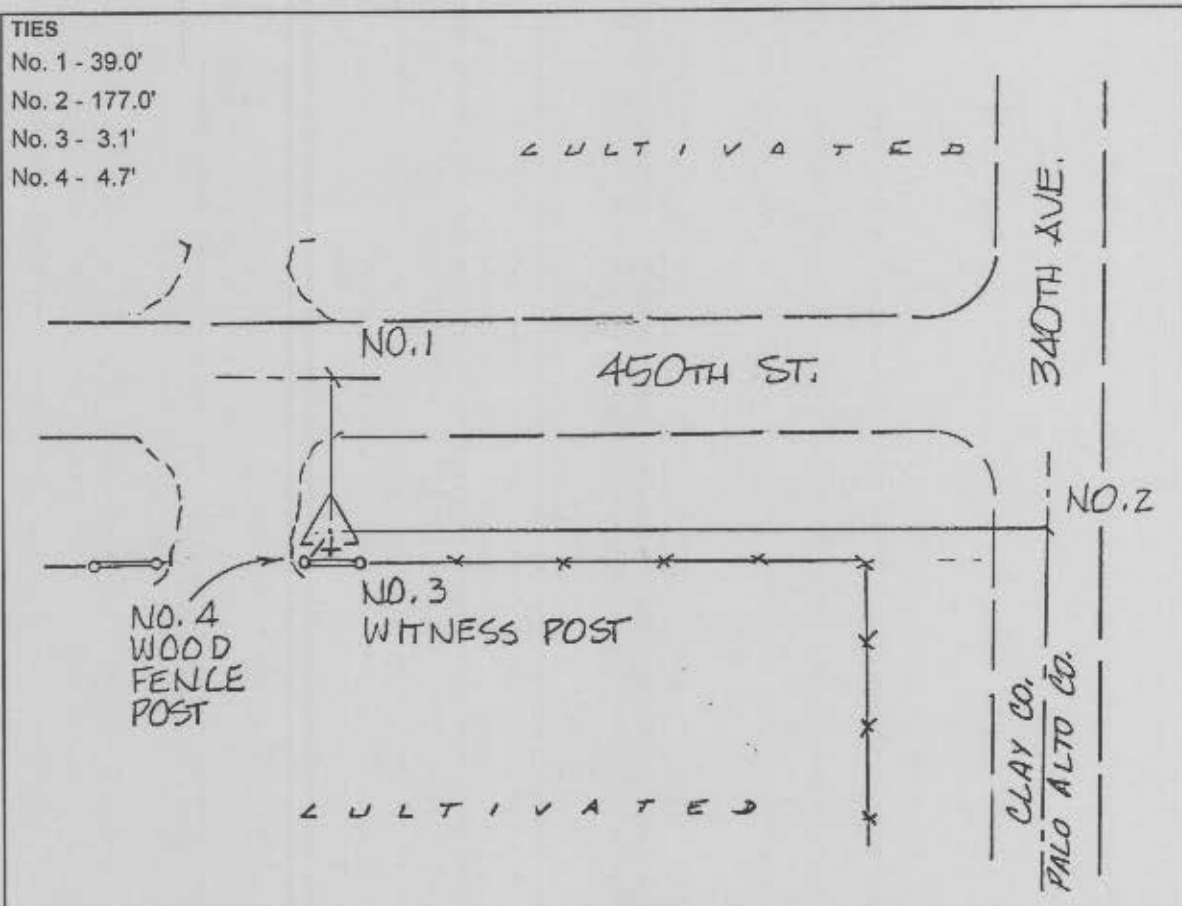
TIES

No. 1 - 39.0'

No. 2 - 177.0'

No. 3 - 3.1'

No. 4 - 4.7'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943524 1 GPS No. 7080 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 24 TWP 94 N RGE 35 W USGS QUAD MAP RUSH LAKE WEST
TO REACH FROM THE INTERSECTION OF 480TH STREET / COUNTY LINE B63 AND
340TH AVENUE (CLAY - PALO ALTO COUNTY LINE); GO WEST 0.15 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995775

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3813567.053

NORTHING (Y) 1162377.562

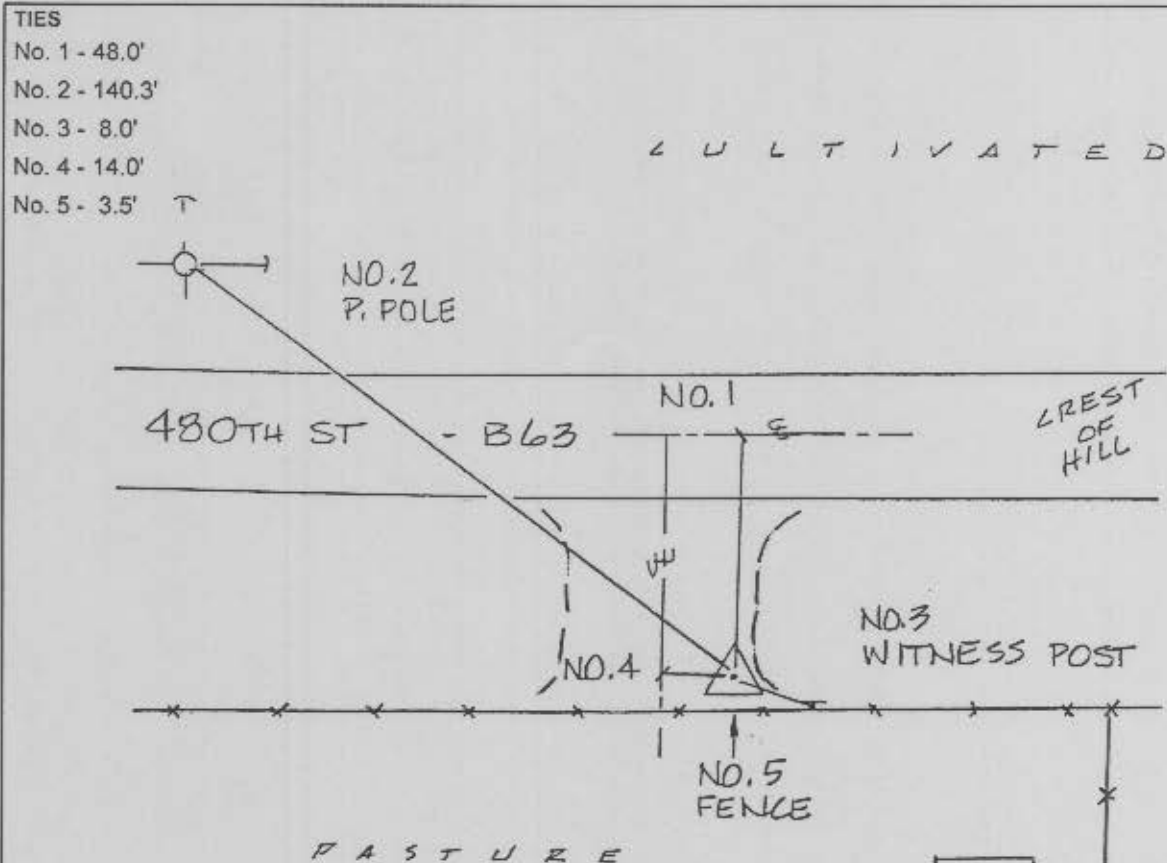
EASTING (X) 4542026.371

EASTING (X) 1384412.407

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1387.52

ELEVATION (METERS) 422.918



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943536 2 GPS No. 7081 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 36 TWP 94 N RGE 35 W USGS QUAD MAP RUSH LAKE WEST
TO REACH FROM THE INTERSECTION OF 510TH STREET (CLAY - BUENA VISTA COUNTY LINE) AND
340TH AVENUE (CLAY - PALO ALTO COUNTY LINE); GO WEST 0.1 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995428

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3797770.381

NORTHING (Y) 1157562.727

EASTING (X) 4541976.589

EASTING (X) 1384397.233

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

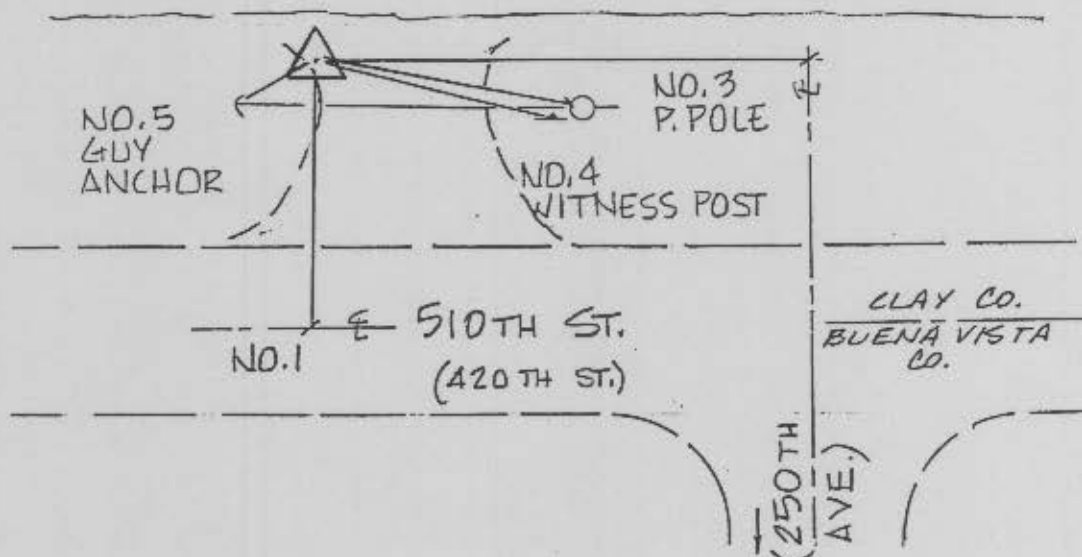
ELEVATION (US FEET) 1362.32

ELEVATION (METERS) 415.235

TIES

- No. 1 - 31.0'
- No. 2 - 47.0'
- No. 3 - 22.1'
- No. 4 - 21.2'
- No. 5 - 24.0'

C U L T I V A T E D



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963803 3 GPS No. 7082 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 3 TWP 96 N RGE 38 W USGS QUAD MAP EVERLY

TO REACH FROM THE INTERSECTION OF 330TH STREET AND 130TH AVENUE / COUNTY ROAD M27;

GO EAST 1 BLOCK / 400 FEET, MORE OR LESS, TO MAIN STREET; THEN SOUTH 0.5 MILE ON MAIN STREET

TO MARK, IN EVERLY, IOWA.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE SCALE FACTOR: 0.99998272

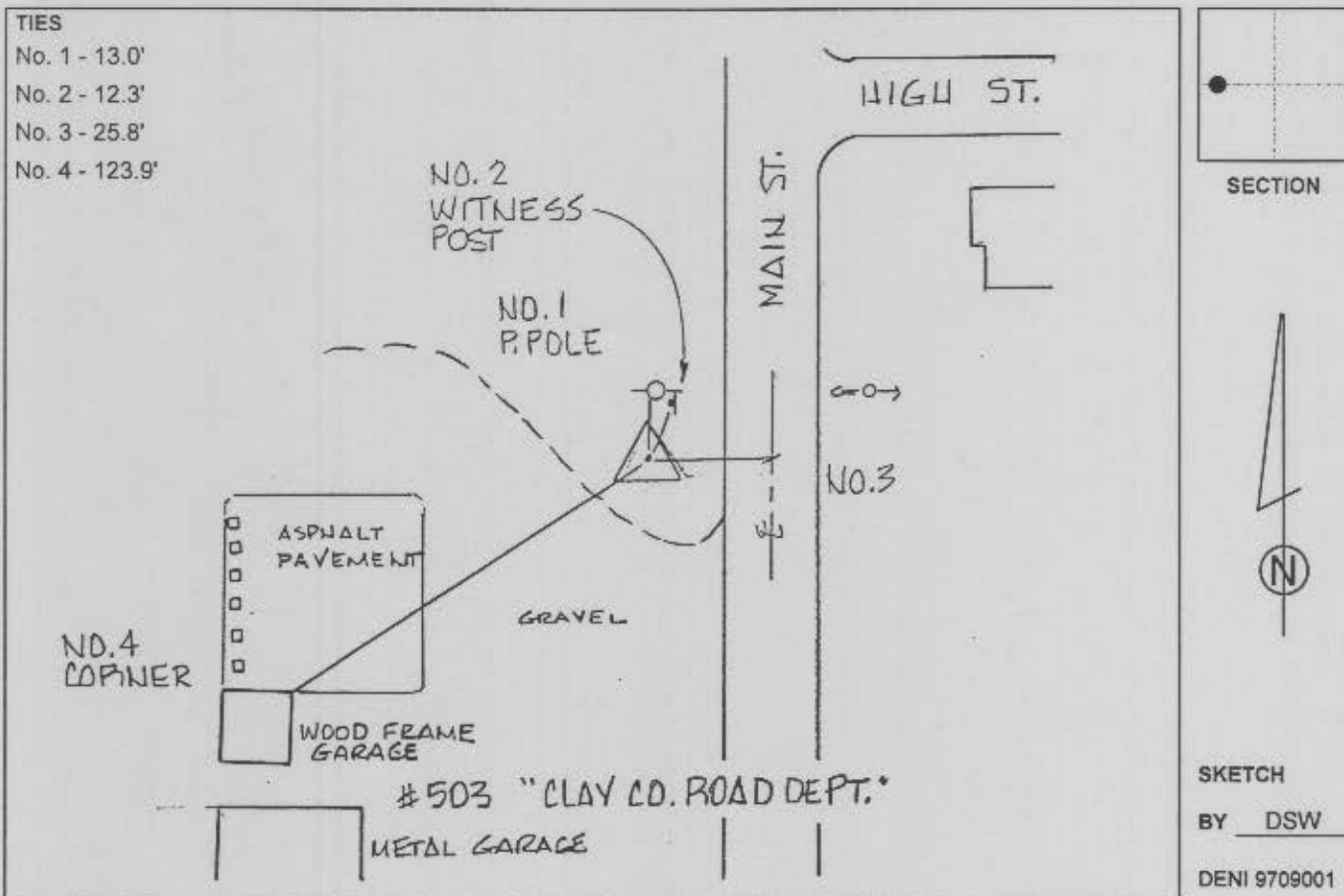
COORDINATES (US FEET) COORDINATES (METERS)

NORTHING (Y) 3892189.732 NORTHING (Y) 1186341.803

EASTING (X) 4433729.491 EASTING (X) 1351403.452

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1362.01 ELEVATION (METERS) 415.141



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953812 4 GPS No. 7083 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 12 TWP 95 N RGE 38 W USGS QUAD MAP ROYAL

TO REACH FROM _____

AT THE CLAY COUNTY ROAD DEPARTMENT IN ROYAL AT THE

INTERSECTION OF MARKET STREET AND FOURTH AVENUE.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996957

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3856767.969

NORTHING (Y) 1175545.228

EASTING (X) 4444218.040

EASTING (X) 1354600.368

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1410.60

ELEVATION (METERS) 429.952

TIES

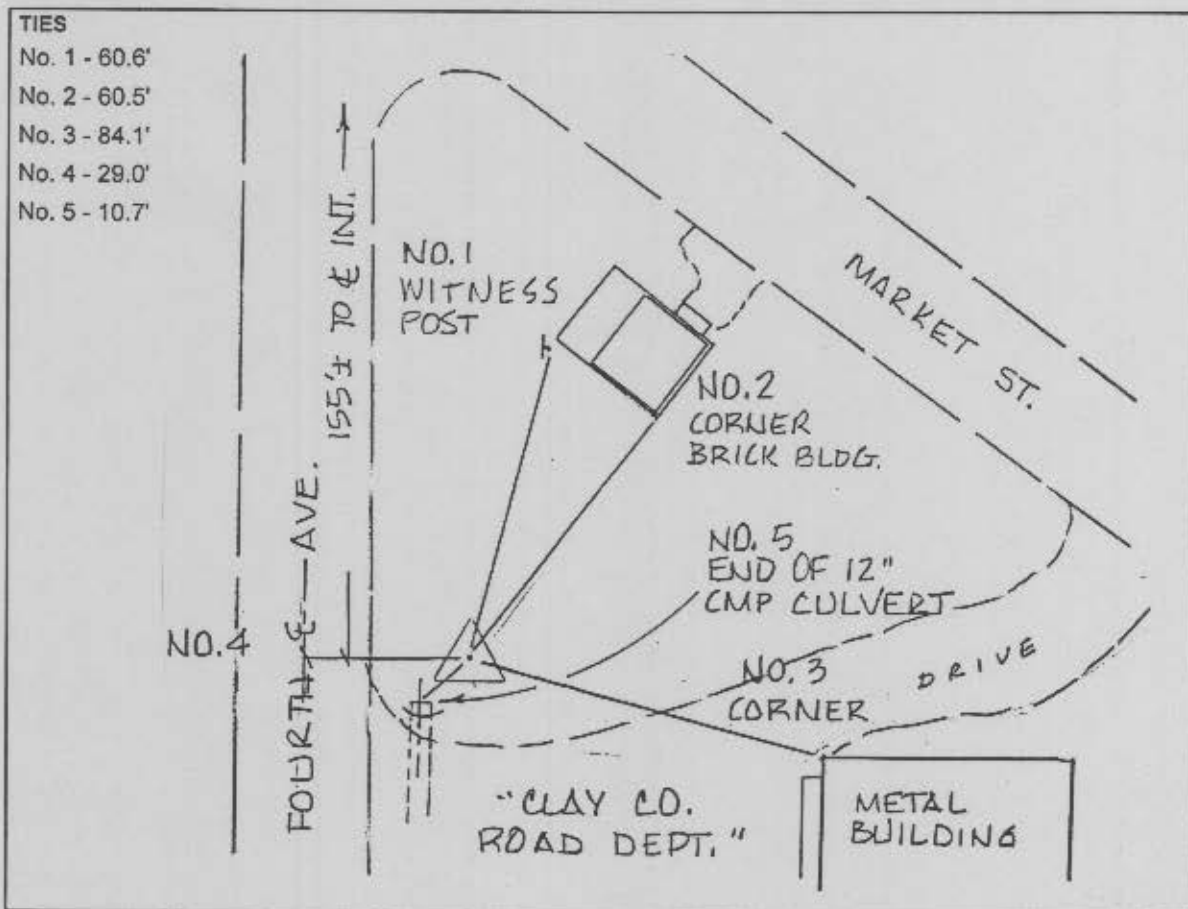
No. 1 - 60.6'

No. 2 - 60.5'

No. 3 - 84.1'

No. 4 - 29.0'

No. 5 - 10.7'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943833 4 GPS No. 7084 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 33 TWP 94 N RGE 38 W USGS QUAD MAP PETERSON
TO REACH FROM THE INTERSECTION OF HWY 10 / FRONT STREET AND 125TH AVENUE / ASH STREET
IN PETERSON, IOWA; GO WESTERLY ON FRONT STREET 0.45 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995498

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3803414.891

NORTHING (Y) 1159283.177

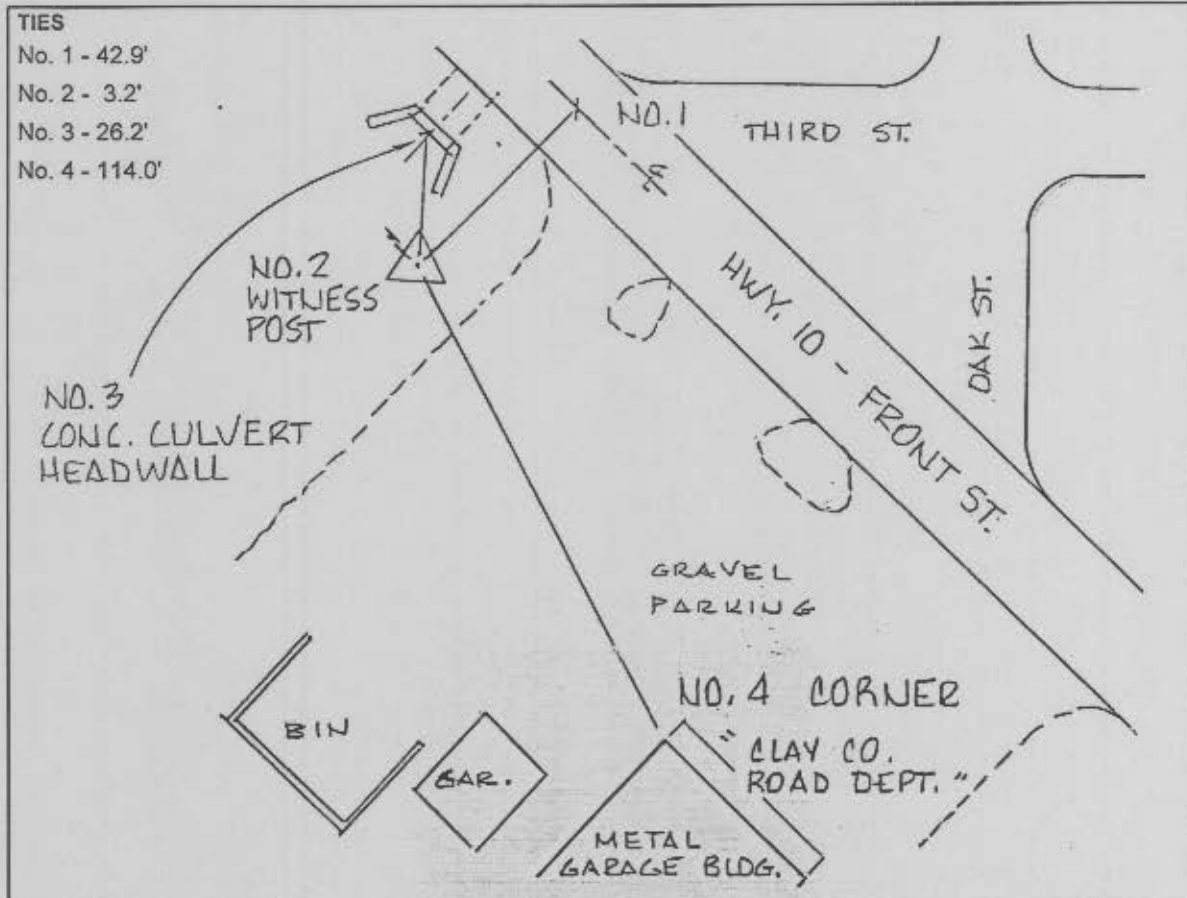
EASTING (X) 4426570.409

EASTING (X) 1349221.359

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1236.59

ELEVATION (METERS) 376.912



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 943520 4 GPS No. 7085 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 20 TWP 94 N RGE 35 W USGS QUAD MAP WEBB
TO REACH FROM _____
AT THE CLAY COUNTY ROAD DEPARTMENT IN WEBB, AT THE INTERSECTION OF
RAILWAY STREET AND FOURTH AVENUE.

NO WITNESS POST SET.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995727

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3811962.017

NORTHING (Y) 1161888.347

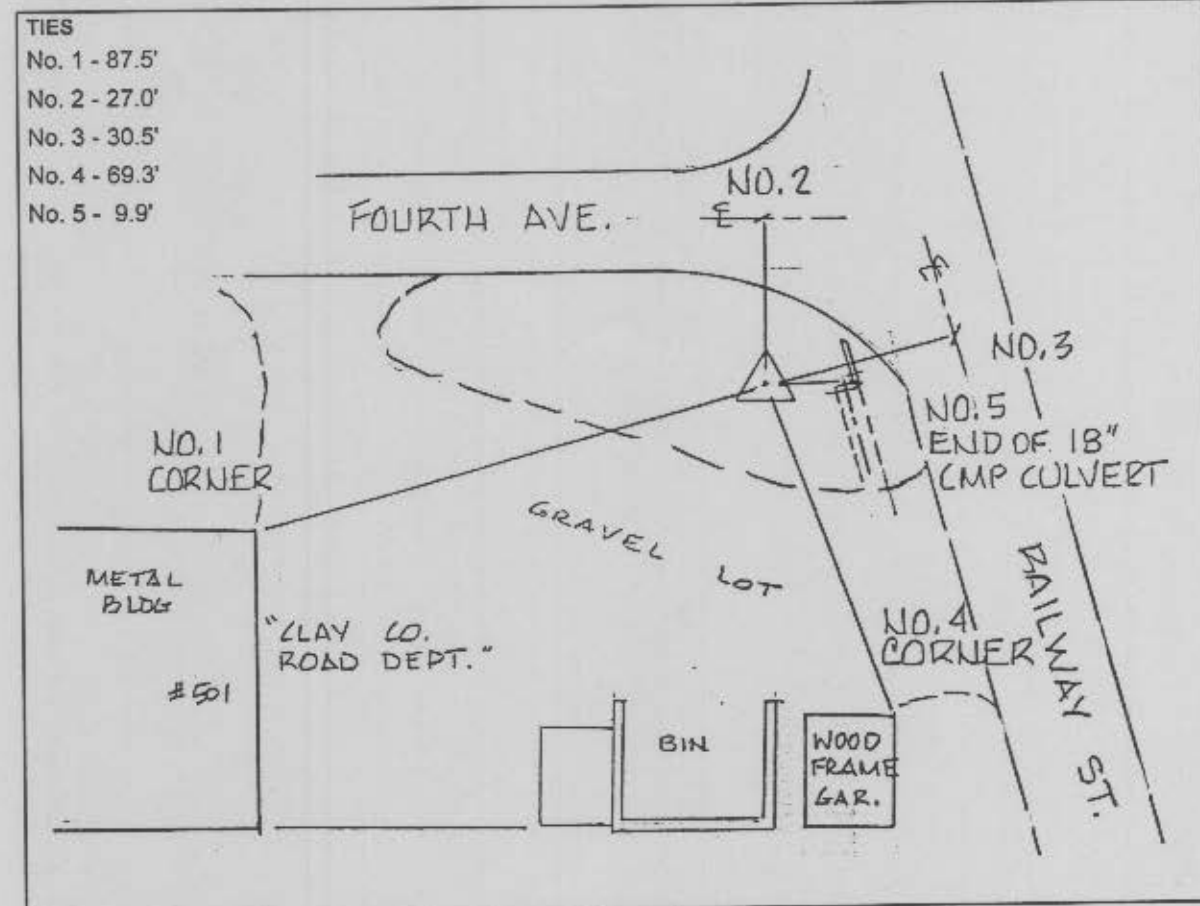
EASTING (X) 4516879.715

EASTING (X) 1376747.691

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1366.69

ELEVATION (METERS) 416.567



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 953625 4 GPS No. 7086 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 25 TWP 95 N RGE 36 W USGS QUAD MAP GILLETT GROVE

TO REACH FROM _____

AT THE CLAY COUNTY ROAD DEPARTMENT AT WEST EDGE OF GILLETT GROVE AT THE
INTERSECTION OF 435TH STREET AND 270TH AVENUE.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996400

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3837754.264

NORTHING (Y) 1169749.839

EASTING (X) 4506115.015

EASTING (X) 1373466.604

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1400.32

ELEVATION (METERS) 426.818

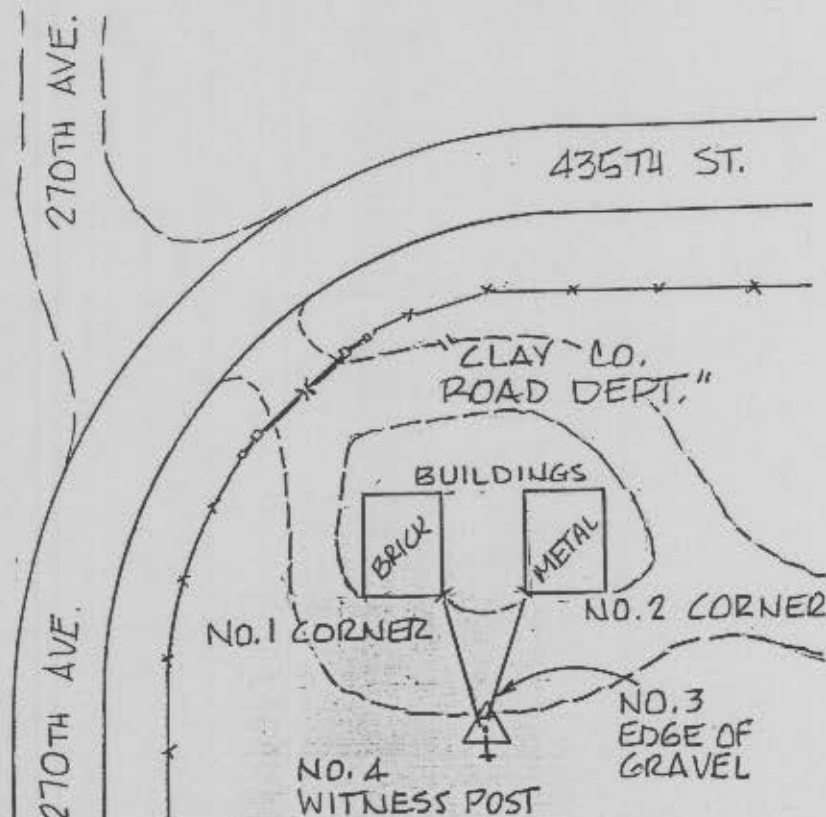
TIES

No. 1 - 70.9'

No. 2 - 69.7'

No. 3 - 6'

No. 4 - 3.5'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963518 2 GPS No. 7087 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 18 TWP 96 N RGE 35 W USGS QUAD MAP DICKENS

TO REACH FROM THE INTERSECTION OF 360TH STREET / U.S. HIGHWAY 18 AND
280TH AVENUE / COUNTY ROAD M54; GO EAST 0.4 MILE TO MAIN STREET; THEN NORTH 400 FEET,
MORE OR LESS, TO SOUTH 1ST STREET; THEN EASTERLY 0.2 MILE TO MARK.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE SCALE FACTOR: 0.99997764

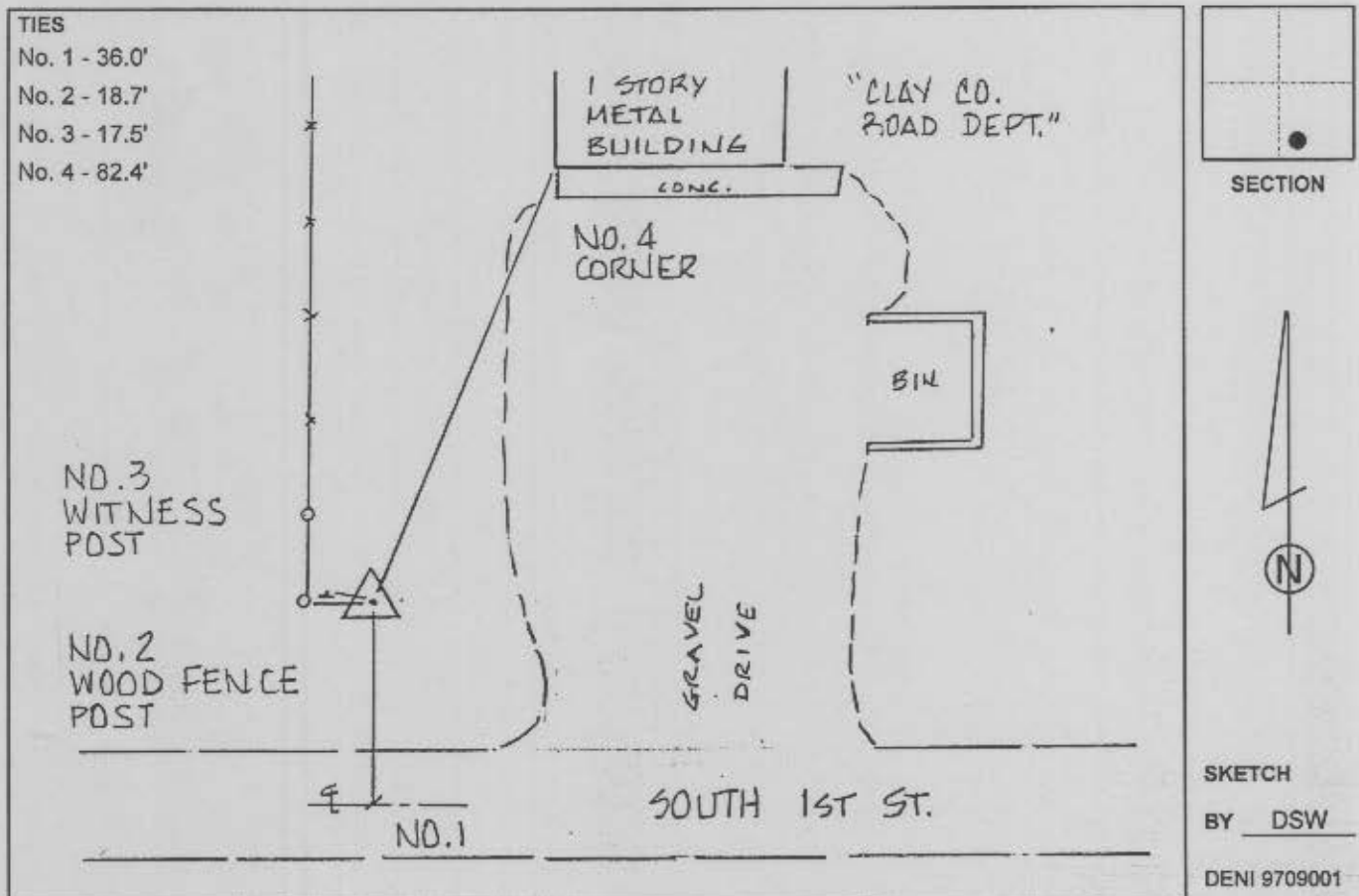
COORDINATES (US FEET) COORDINATES (METERS)

NORTHING (Y) 3877855.183 NORTHING (Y) 1181972.624

EASTING (X) 4515366.167 EASTING (X) 1376286.360

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1308.72 ELEVATION (METERS) 398.900



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963618 4 GPS No. 7088 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 18 TWP 96 N RGE 36 W USGS QUAD MAP SPENCER

TO REACH FROM THE U.S. HIGHWAY 71 / U.S. HIGHWAY 18 - GRAND AVENUE BRIDGE OVER THE
LITTLE SIOUX RIVER; GO NORTH 0.15 MILE TO 1ST STREET; THEN WEST 0.3 MILE TO 4TH AVENUE WEST;
THEN SOUTH TO THE "CLAY COUNTY MAINTENANCE YARD" AND MARK, IN SPENCER.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997900

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3881992.257

NORTHING (Y) 1183233.606

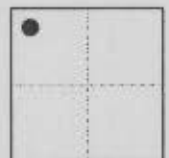
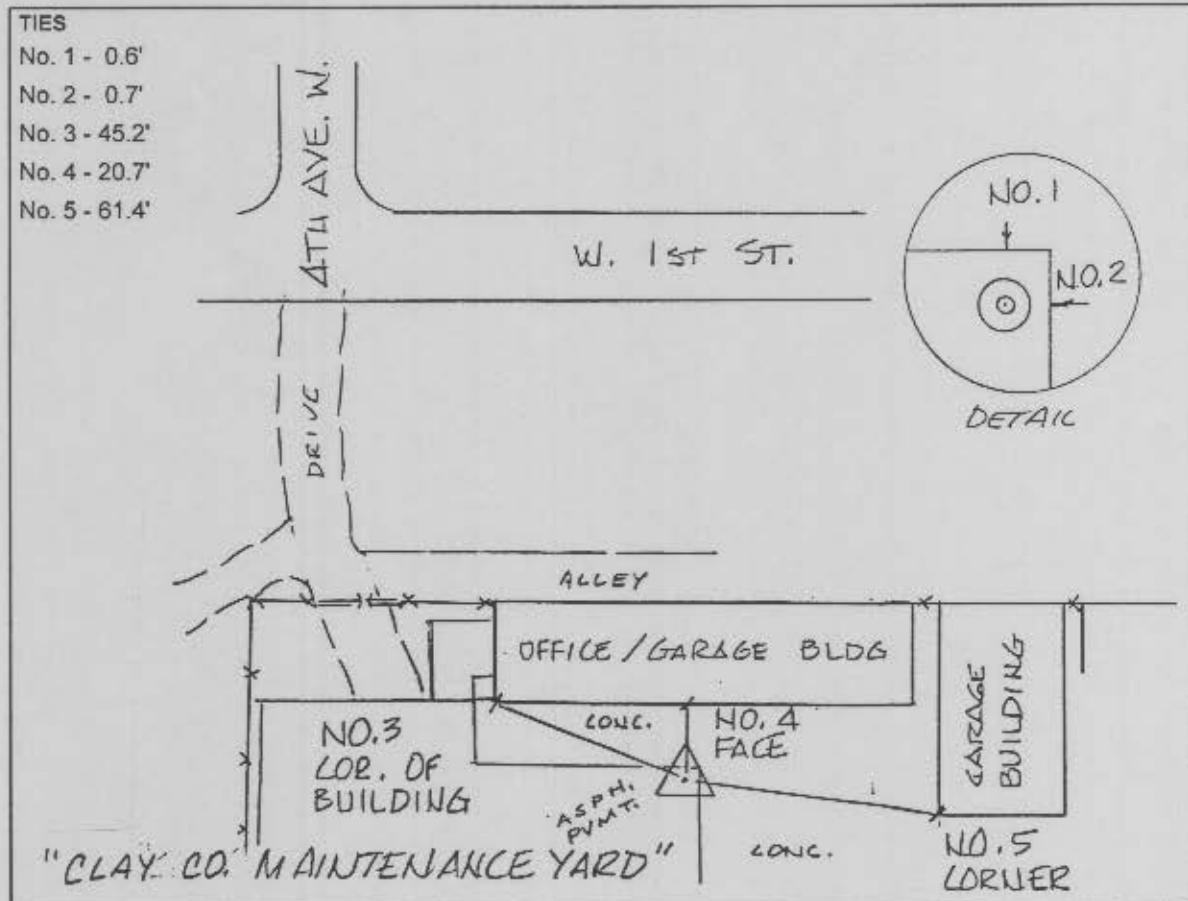
EASTING (X) 4480827.413

EASTING (X) 1365758.927

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1314.39

ELEVATION (METERS) 400.627



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 963703 3 GPS No. 7089 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 3 TWP 96 N RGE 36 W USGS QUAD MAP SPENCER
TO REACH FROM THE INTERSECTION OF 340TH STREET / WEST 18TH STREET AND 190TH AVENUE;
GO EAST 0.4 MILE TO MARK, AT SOUTHERLY BOUNDARY OF SPENCER MUNICIPAL AIRPORT.

MARK 3-1/4" ALUMINUM DISK SET IN POURED-IN-PLACE CONCRETE MONUMENT WITH 10" PVC COLLAR

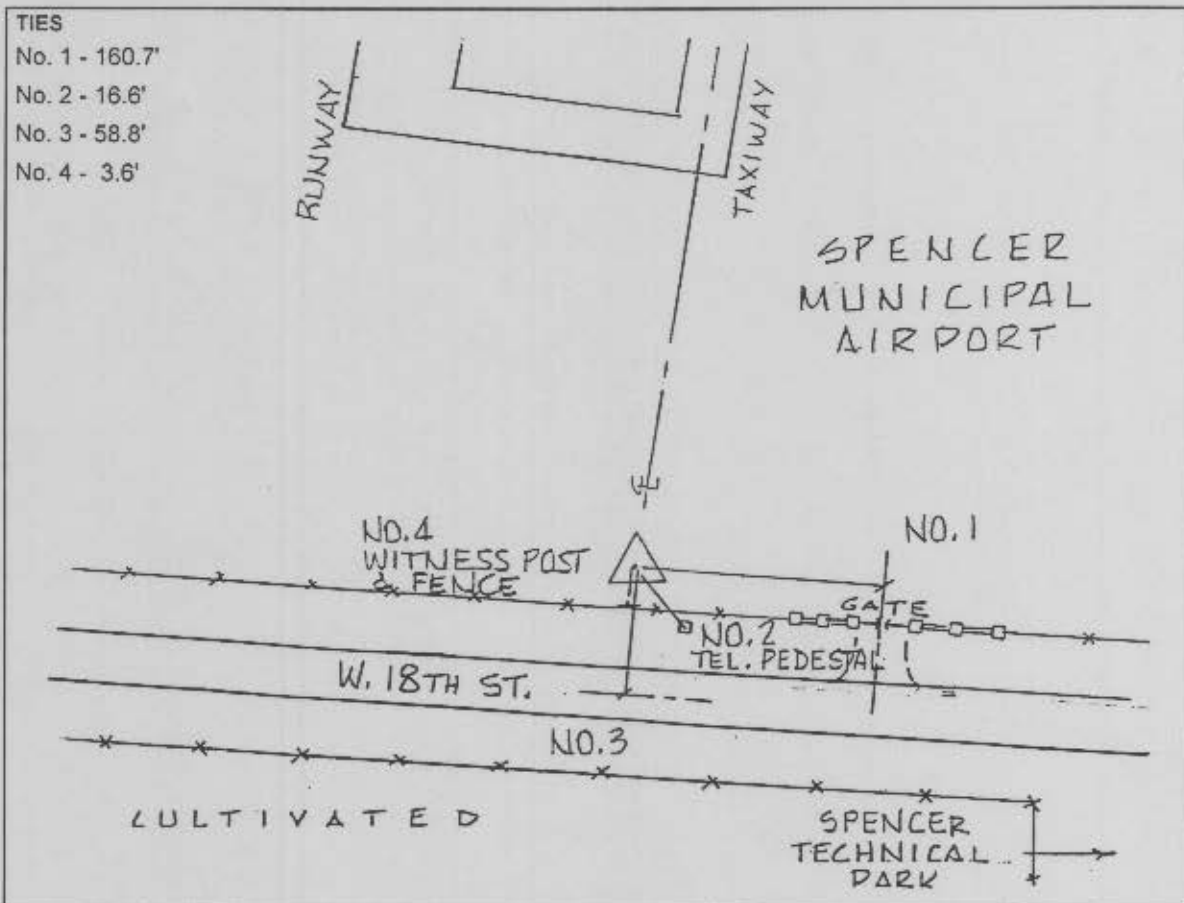
☐ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☒ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE	SCALE FACTOR: <u>0.99998176</u>
COORDINATES (US FEET)	COORDINATES (METERS)
NORTHING (Y) <u>3889174.682</u>	NORTHING (Y) <u>1185422.814</u>
EASTING (X) <u>4466937.802</u>	EASTING (X) <u>1361525.365</u>

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) <u>1335.45</u>	ELEVATION (METERS) <u>407.047</u>
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SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 72 T GPS No. 9702 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 18 TWP 94 N RGE 36 W USGS QUAD MAP SIOUX RAPIDS

TO REACH FROM _____

IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF 480TH STREET / COUNTY ROAD B63

AND 225TH AVENUE.

MARK STANDARD U.S.G.S. DISK ON ROD IN 6" TILE, PROJECTS 0.35' ABV. GRD., ROD PROJECTS 0.9' ABV. GRD.

☒ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☐ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99995794

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3815452.214

NORTHING (Y) 1162952.161

EASTING (X) 4481382.578

EASTING (X) 1365928.141

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1367.81

ELEVATION (METERS) 416.910

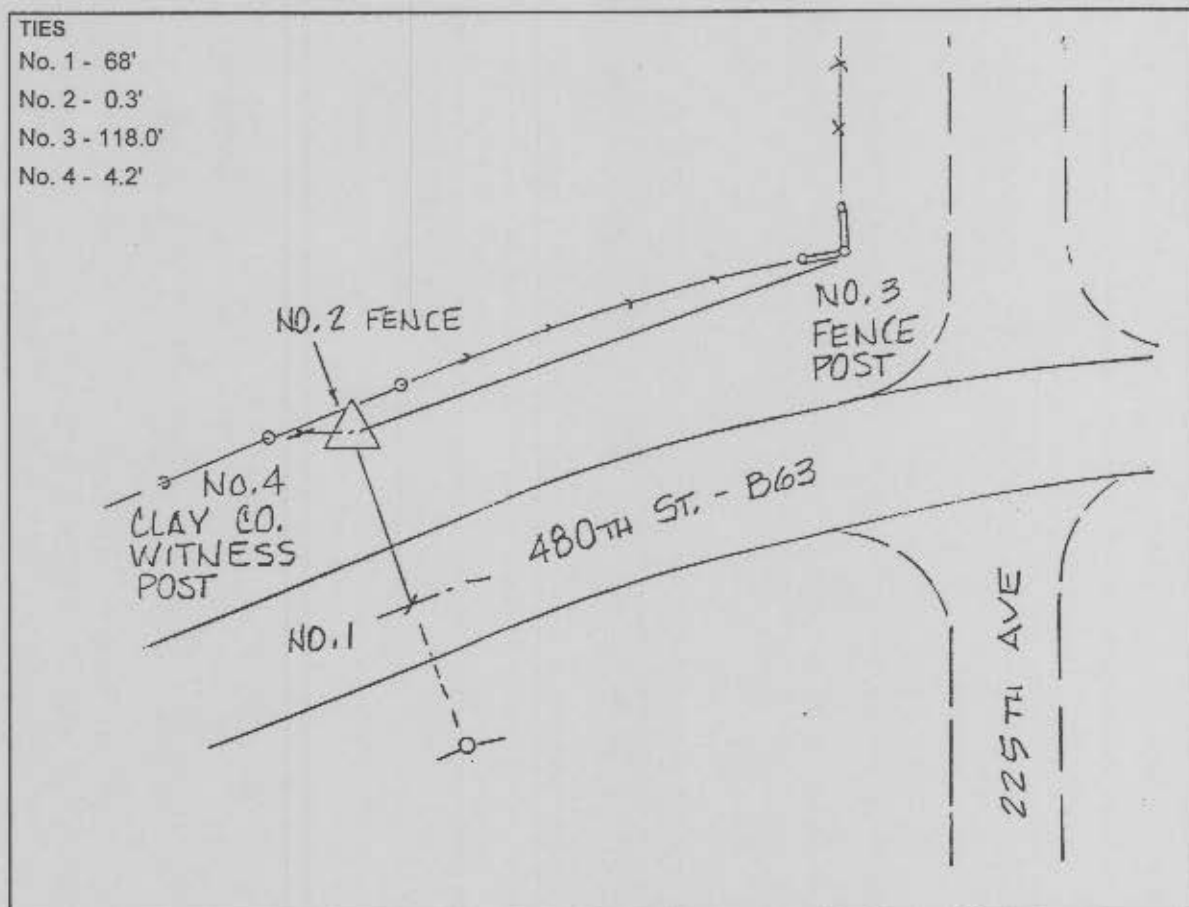
TIES

No. 1 - 68'

No. 2 - 0.3'

No. 3 - 118.0'

No. 4 - 4.2'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION G 18 GPS No. 9715 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 7 TWP 96 N RGE 36 W USGS QUAD MAP SPENCER

TO REACH FROM _____

IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF WEST MILWAUKEE AND U.S. HIGHWAY 71 /

U.S. HIGHWAY 18 / WEST GRAND AVENUE; IN THE CONCRETE PAVED PARKING LOT OF SPENCER MUNICIPAL

UTILITIES BUILDING; IN SPENCER.

MARK STANDARD U.S.C. & G.S. BENCHMARK DISK SET IN CONCRETE, RECESSED 0.1'

☒ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☐ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99997998

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3884453.207

NORTHING (Y) 1183983.705

EASTING (X) 4482344.802

EASTING (X) 1366221.428

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1316.27

ELEVATION (METERS) 401.199

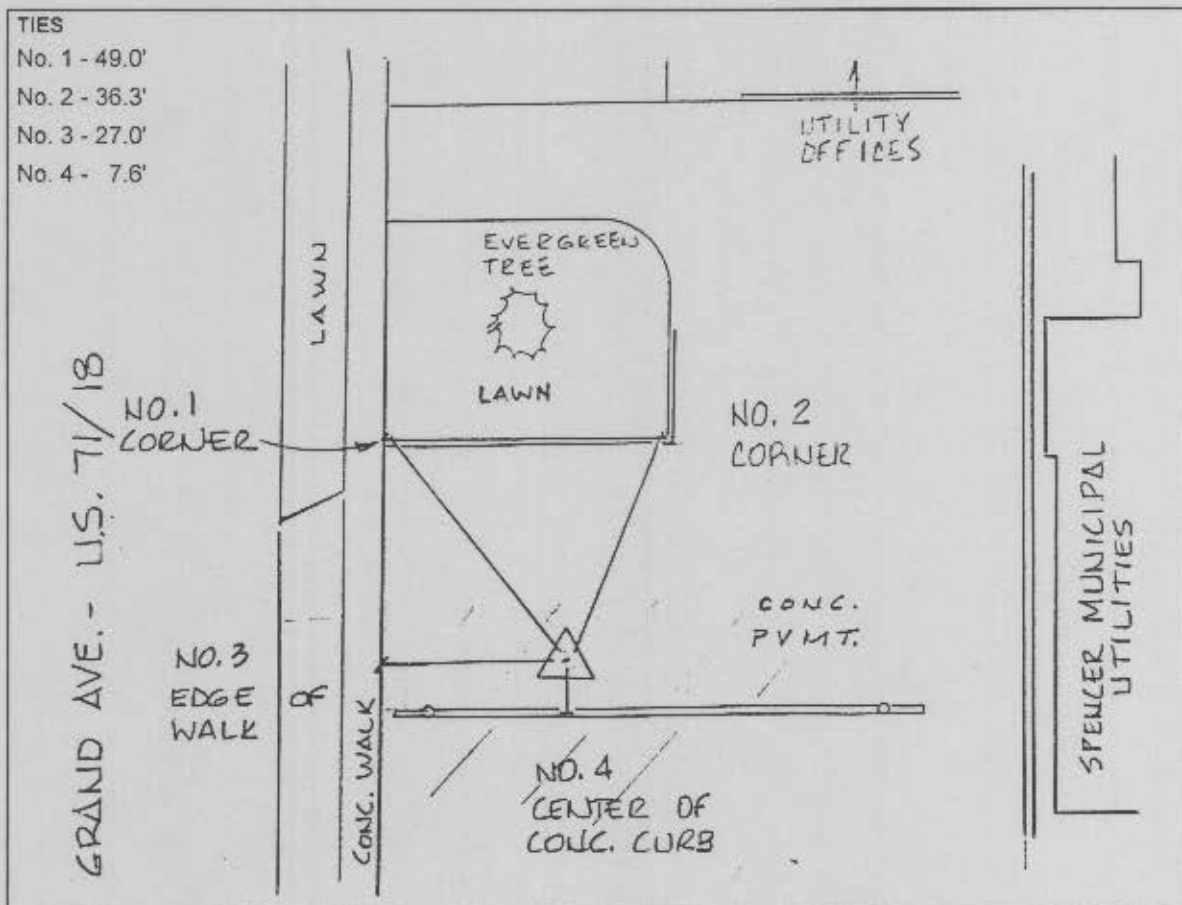
TIES

No. 1 - 49.0'

No. 2 - 36.3'

No. 3 - 27.0'

No. 4 - 7.6'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION SPENCER GPS No. 9716 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 6 TWP 96 N RGE 36 W USGS QUAD MAP SPENCER

TO REACH FROM THE INTERSECTION OF 23RD STREET AND U.S. HIGHWAY 71; GO EASTERLY 0.1 MILE TO THE
MARK BY THE WATER TANK.

MARK STANDARD U.S.C.&G.S. BRONZE DISK SET IN CONCRETE

☒ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☐ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE SCALE FACTOR: 0.99998246

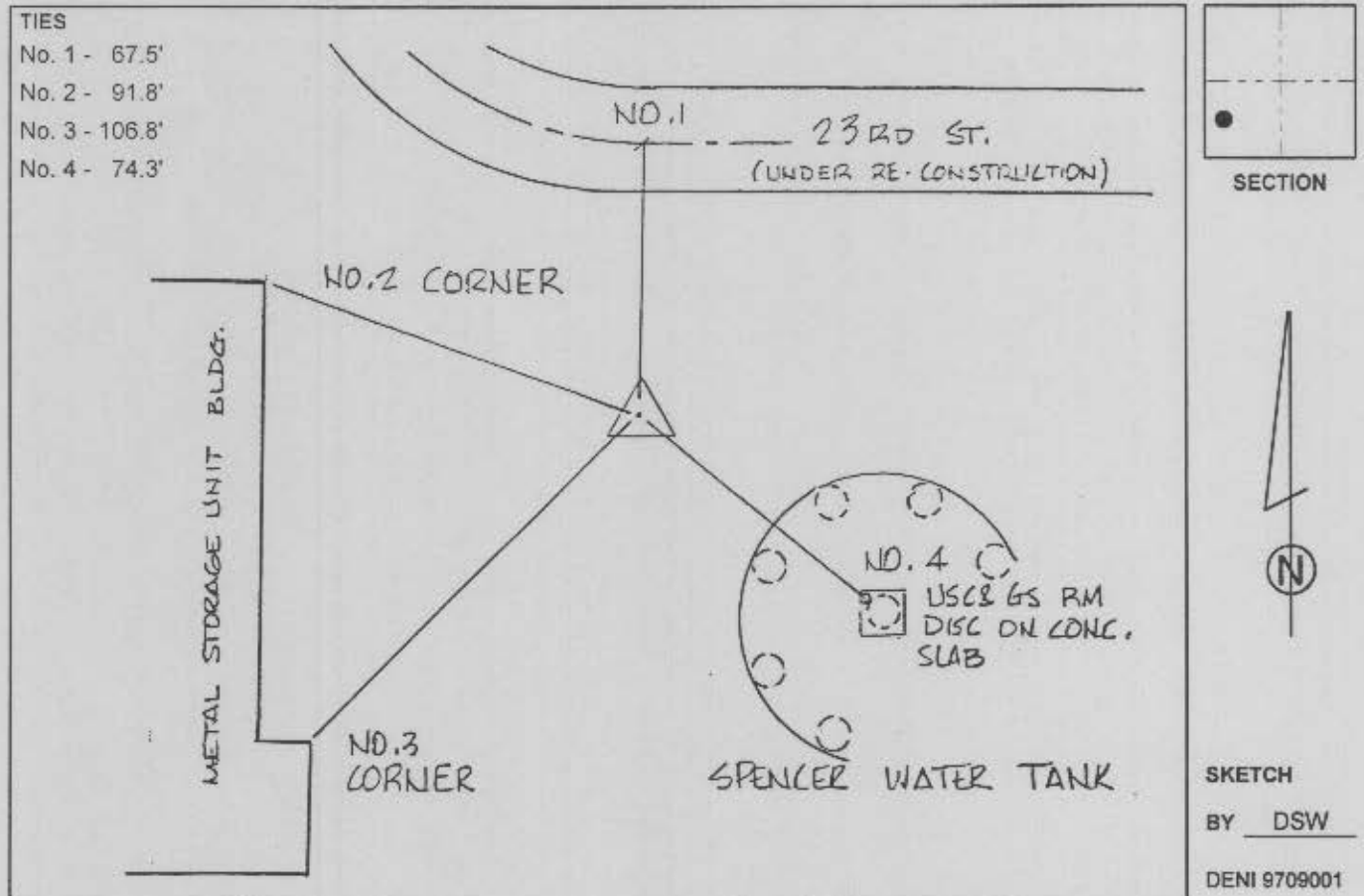
COORDINATES (US FEET) COORDINATES (METERS)

NORTHING (Y) 3890555.553 NORTHING (Y) 1185843.704

EASTING (X) 4482131.875 EASTING (X) 1366156.528

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1334.17 ELEVATION (METERS) 406.656



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION NGS SCHUCK GPS No. 9718 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 2 TWP 95 N RGE 38 W USGS QUAD MAP ROYAL
TO REACH FROM INTERSECTION OF 400TH STREET / B40 AND 140TH AVENUE WESTERLY OF ROYAL; GO EAST
0.2 MILE TO MARK.

MARK STANDARD U.S.C. & G.S. BRONZE DISK IN CONCRETE

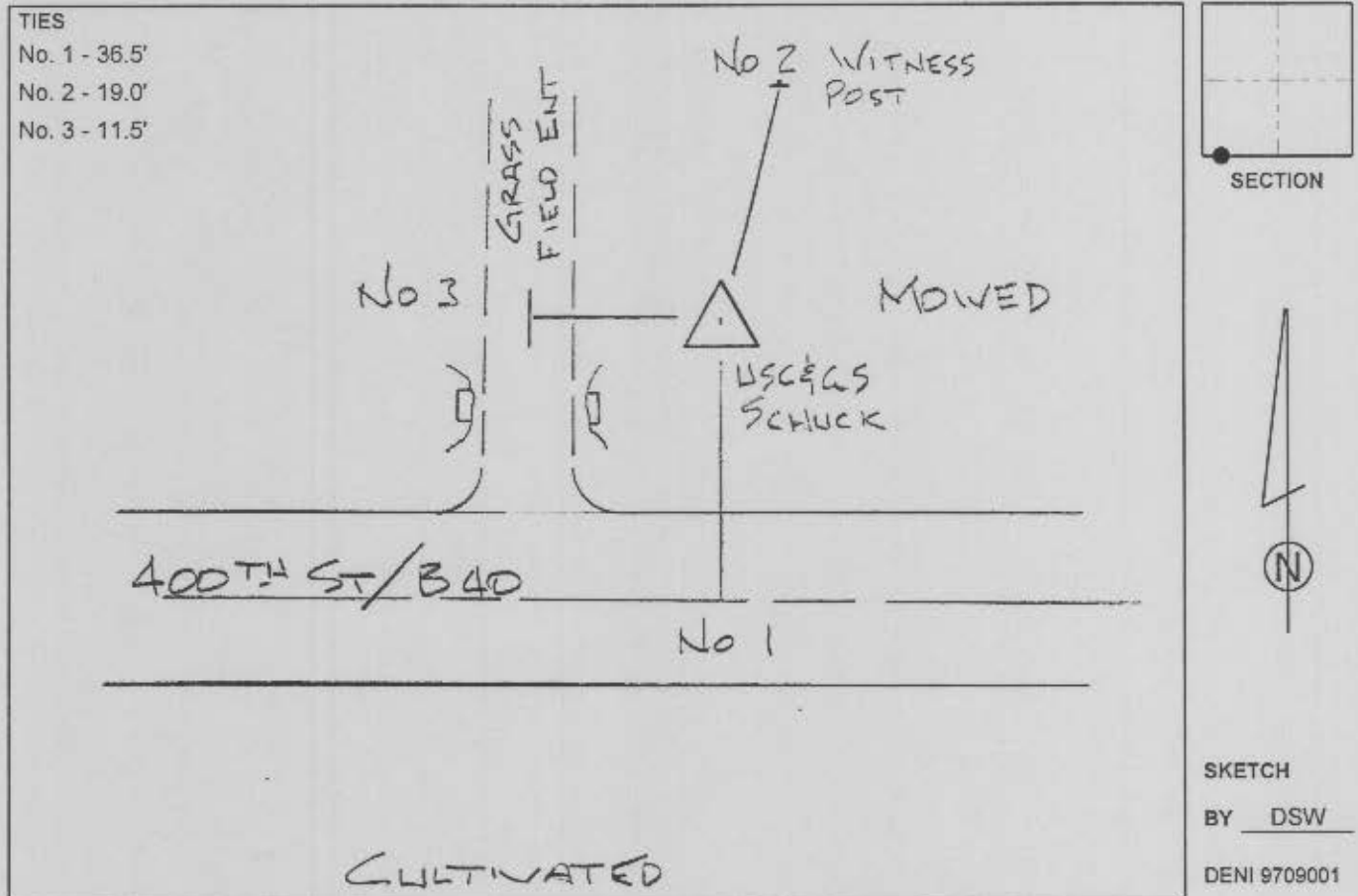
☒ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☐ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE	SCALE FACTOR: <u>0.99996983</u>
COORDINATES (US FEET)	COORDINATES (METERS)
NORTHING (Y) <u>3857672.455</u>	NORTHING (Y) <u>1175820.916</u>
EASTING (X) <u>4438940.904</u>	EASTING (X) <u>1352991.893</u>

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1415.17 ELEVATION (METERS) 431.345



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 78 T GPS No. 9766 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 3 TWP 94 N RGE 35 W USGS QUAD MAP RUSH LAKE WEST
TO REACH FROM _____

IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 450TH STREET AND
310TH AVENUE / COUNTY ROAD N14.

MARK STANDARD U.S.G.S. BRASS DISK ON COPPER COATED STEEL ROD IN 6" CLAY TILE, STAMPED "78 T 1968"

☒ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☐ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996166

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3829092.047

NORTHING (Y) 1167109.590

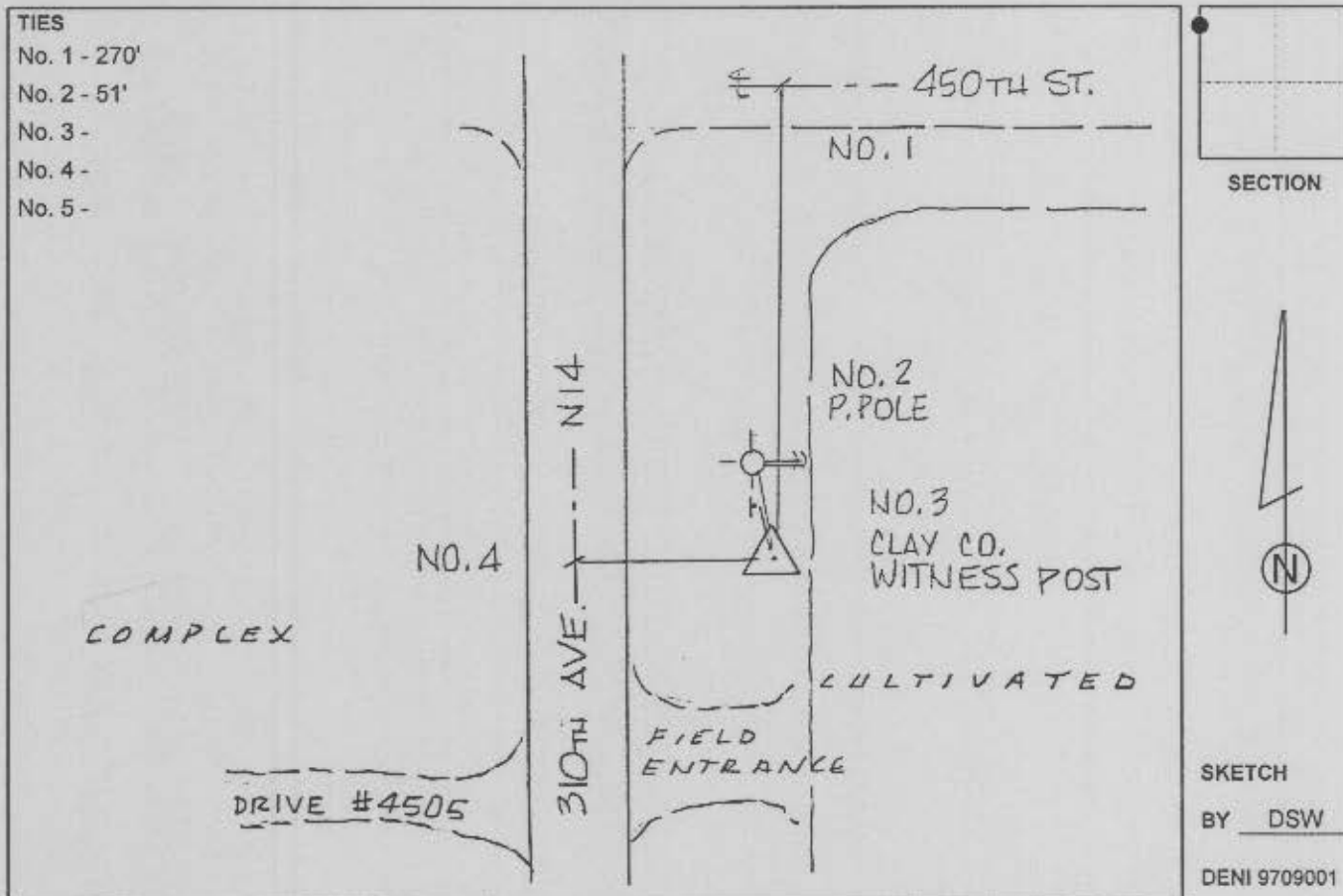
EASTING (X) 4527205.894

EASTING (X) 1379895.116

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1431.11

ELEVATION (METERS) 436.202



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 59 DWB GPS No. 9790 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 18 TWP 97 N RGE 38 W USGS QUAD MAP EVERLY
TO REACH FROM _____
SOUTHWEST OF THE "T" INTERSECTION OF 290TH STREET AND 110TH AVENUE.

MARK STANDARD U.S.G.S. DISK CONCRETE, STAMPED "59 DWB ELEV. 1393 FT. 1967"

☒ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☐ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999302

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3915778.889

NORTHING (Y) 1193531.792

EASTING (X) 4423334.520

EASTING (X) 1348235.058

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1393.94

ELEVATION (METERS) 424.873

TIES

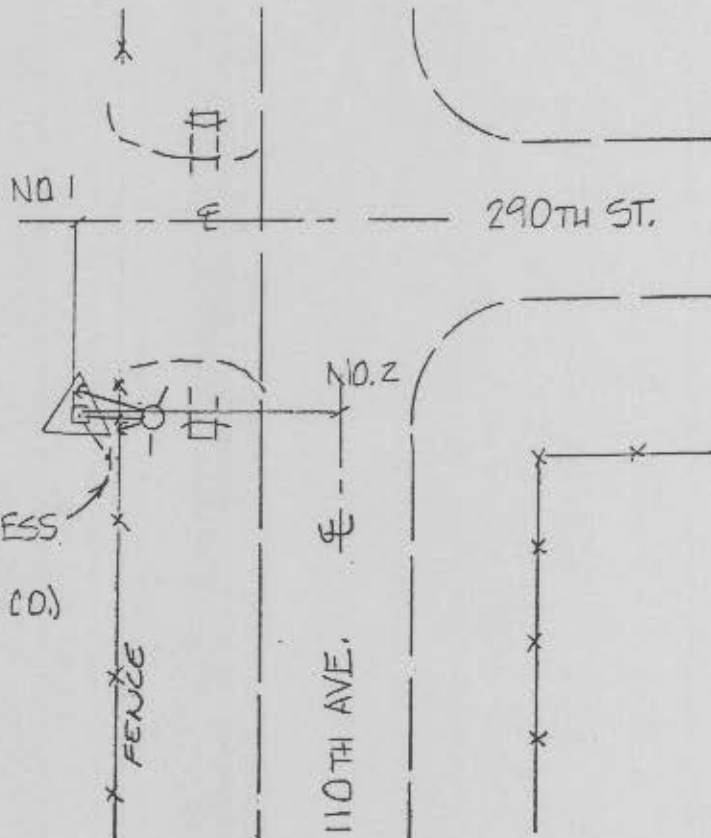
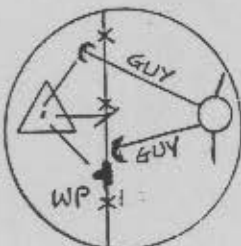
- No. 1 - 35'
- No. 2 - 38'
- No. 3 - 2.1'
- No. 4 - 2.6'
- No. 5 - 2.0'

CULTIVATED

NO.3
POWER POLE
GUY ANCHOR

NO.4
WITNESS
POST
(CLAY CO.)

NO.5
FENCE



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 40 DWB GPS No. 9791 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 32 TWP 96 N RGE 38 W USGS QUAD MAP ROYAL
TO REACH FROM THE INTERSECTION OF 390TH STREET AND 110TH AVENUE; GO NORTH 0.3 MILE TO MARK.

MARK STANDARD U.S.G.S. DISK IN CONCRETE, STAMPED "40 DWB 1967 ELEV. 1430 FT."

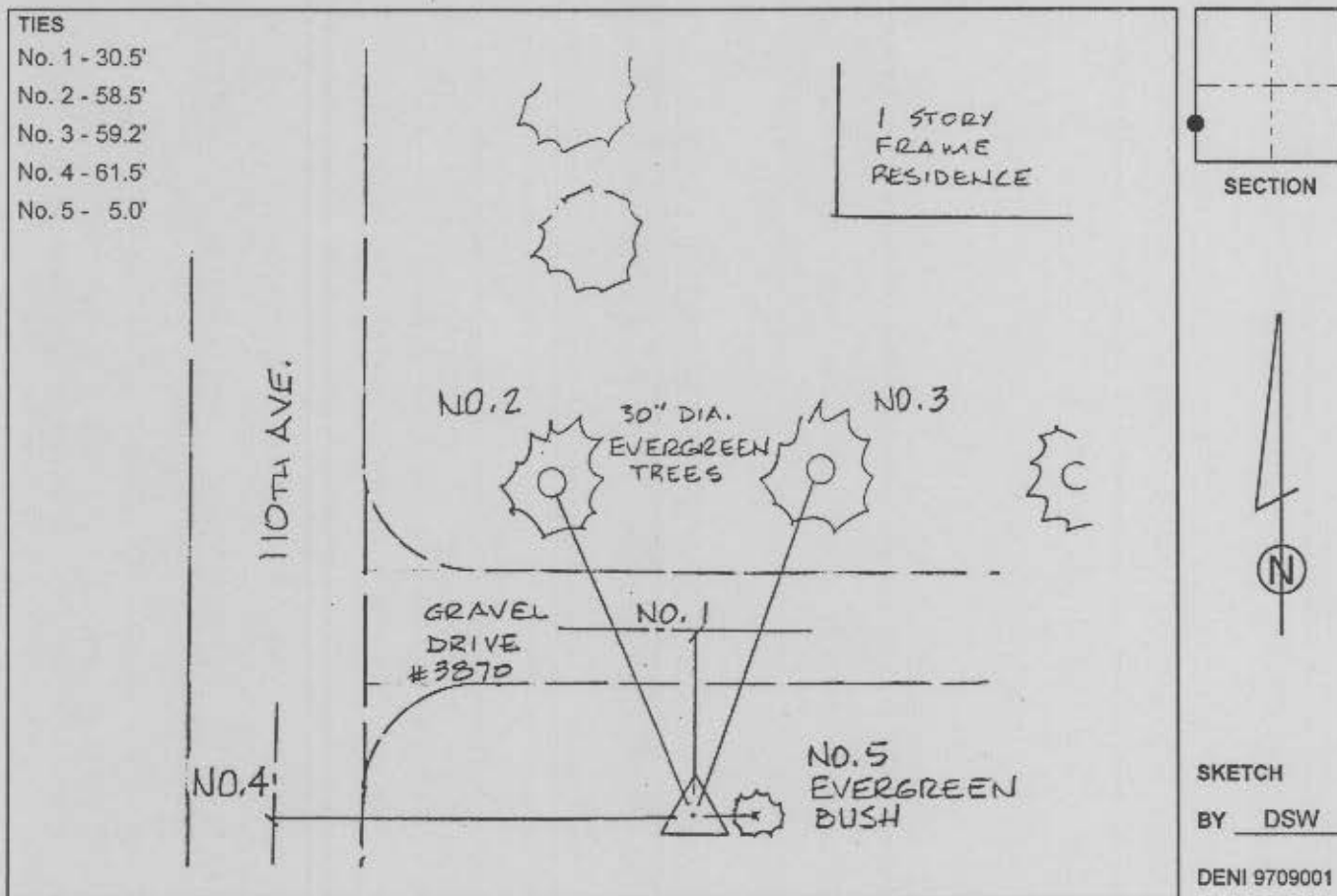
☒ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☐ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE	SCALE FACTOR: <u>0.99997233</u>
COORDINATES (US FEET)	COORDINATES (METERS)
NORTHING (Y) <u>3865301.219</u>	NORTHING (Y) <u>1178146.168</u>
EASTING (X) <u>4422281.917</u>	EASTING (X) <u>1347914.224</u>

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) <u>1430.86</u>	ELEVATION (METERS) <u>436.127</u>
------------------------------------	-----------------------------------



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 65 T GPS No. 9794 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 32 TWP 94 N RGE 37 W USGS QUAD MAP SIOUX RAPIDS

TO REACH FROM _____

IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 500TH STREET / STATE HIGHWAY 10 AND
170TH AVENUE / COUNTY ROAD M36.

MARK STANDARD U.S.G.S. DISK ON TOP OF ROD IN 6" CONCRETE TILE; TILE PROJECTS 0.15' ABOVE GROUND

☒ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☐ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE SCALE FACTOR: 0.99995533

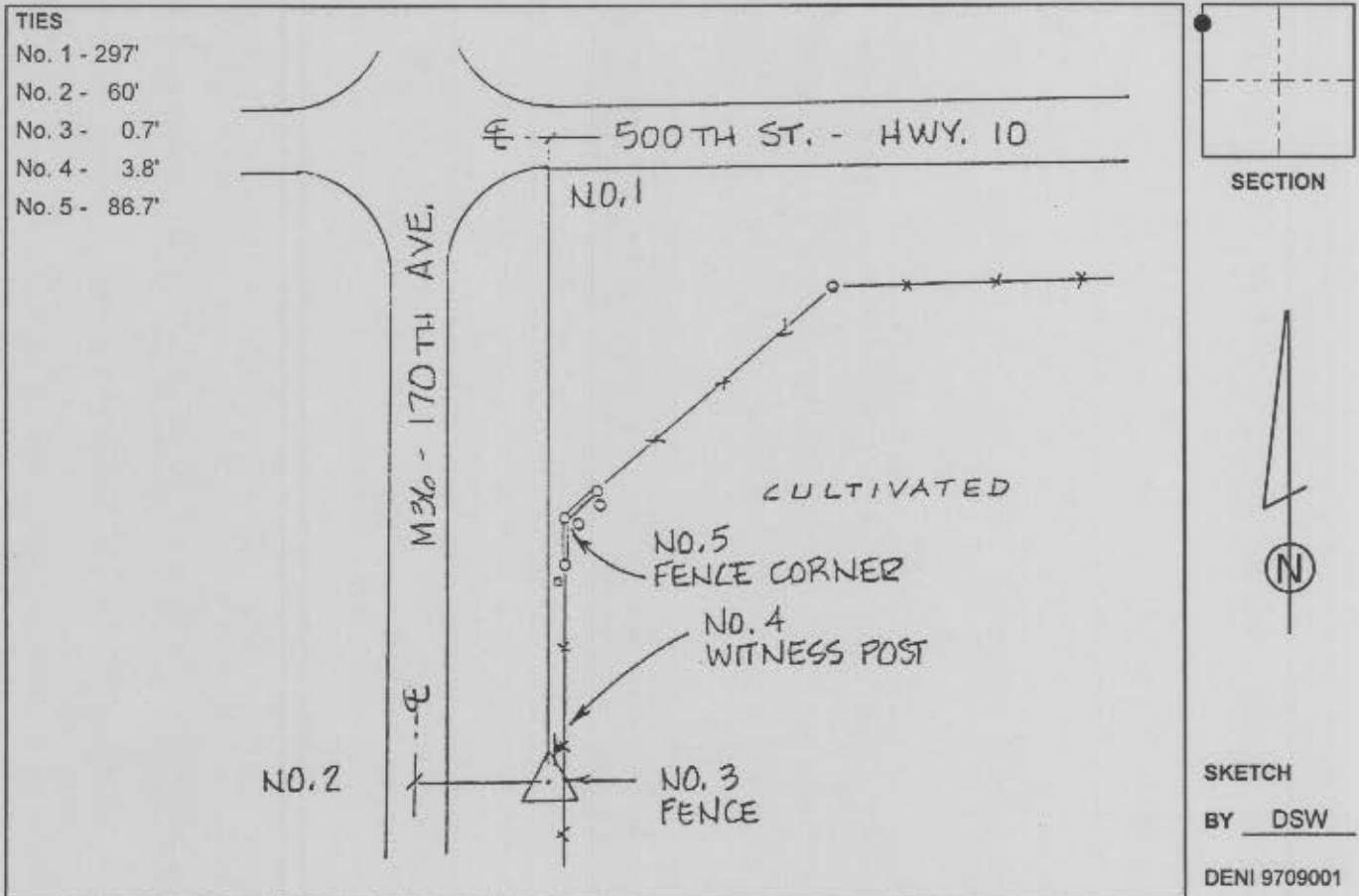
COORDINATES (US FEET) COORDINATES (METERS)

NORTHING (Y) 3804488.285 NORTHING (Y) 1159610.348

EASTING (X) 4452651.953 EASTING (X) 1357171.030

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1388.03 ELEVATION (METERS) 423.073



GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 12 GJS GPS No. 9795 COUNTY CLAY STATE IOWA

LOCATED IN SECTION 20 TWP 95 N RGE 37 W USGS QUAD MAP GREENVILLE

TO REACH FROM _____

IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 420TH STREET AND 170TH AVENUE.

MARK STD. U.S.G.S. DISK ON 18" CONCRETE CULVERT PIPE 10" NORTH OF SOUTH END, 2.7' BELOW ROAD LEVEL

☒ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____

☐ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99996642

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3846789.297

NORTHING (Y) 1172503.723

EASTING (X) 4453398.441

EASTING (X) 1357398.560

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

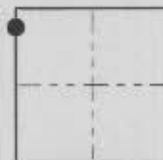
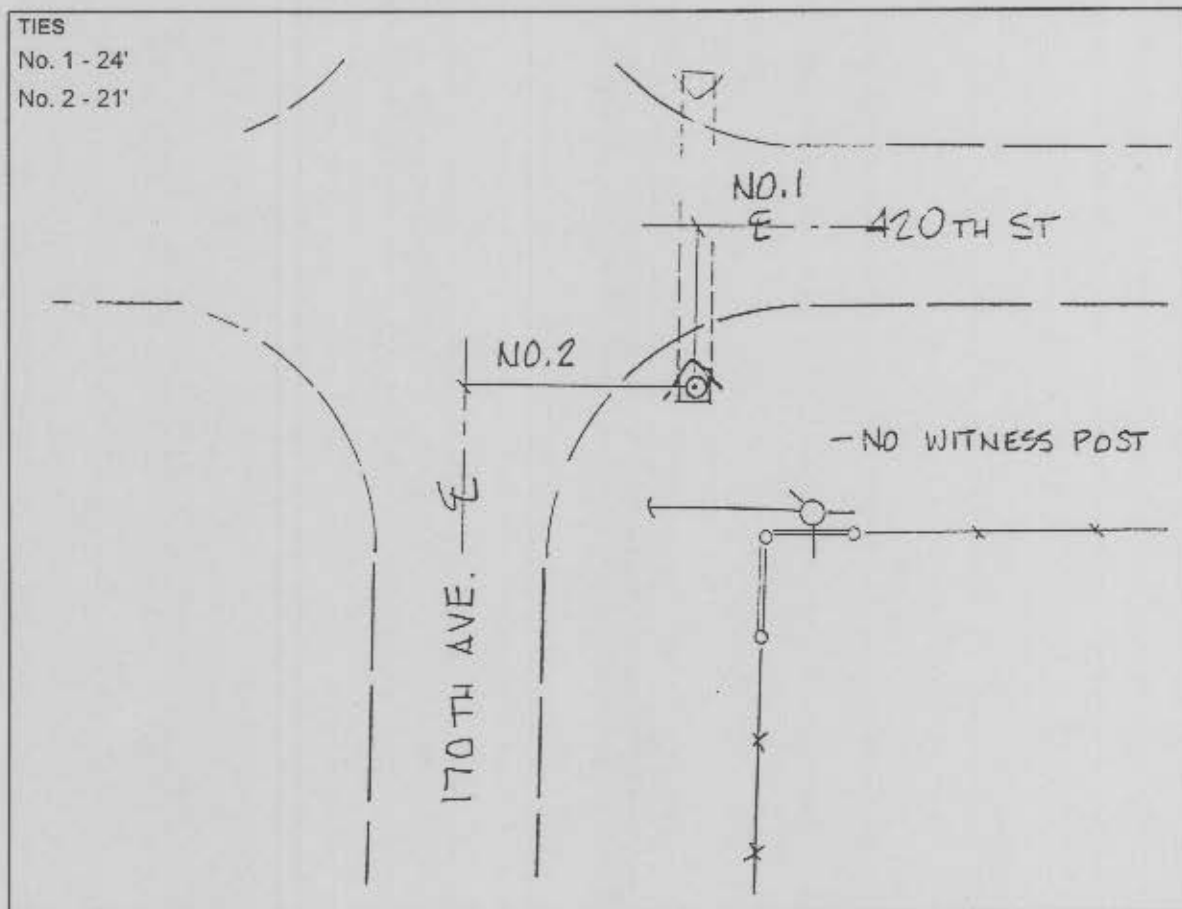
ELEVATION (US FEET) 1400.41

ELEVATION (METERS) 426.846

TIES

No. 1 - 24'

No. 2 - 21'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION 4 GJS RESET GPS No. 9797 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 8 TWP 97 N RGE 36 W USGS QUAD MAP SPENCER
TO REACH FROM THE INTERSECTION OF 280TH STREET / COUNTY ROAD B14 AND 230TH AVENUE; GO EAST
0.15 MILE TO MARK.

MARK STANDARD U.S.G.S. DISK IN CONCRETE, STAMPED "4 GJS 1964 RESET 1967"

☒ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☐ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999551

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3919708.160

NORTHING (Y) 1194729.437

EASTING (X) 4487224.849

EASTING (X) 1367708.870

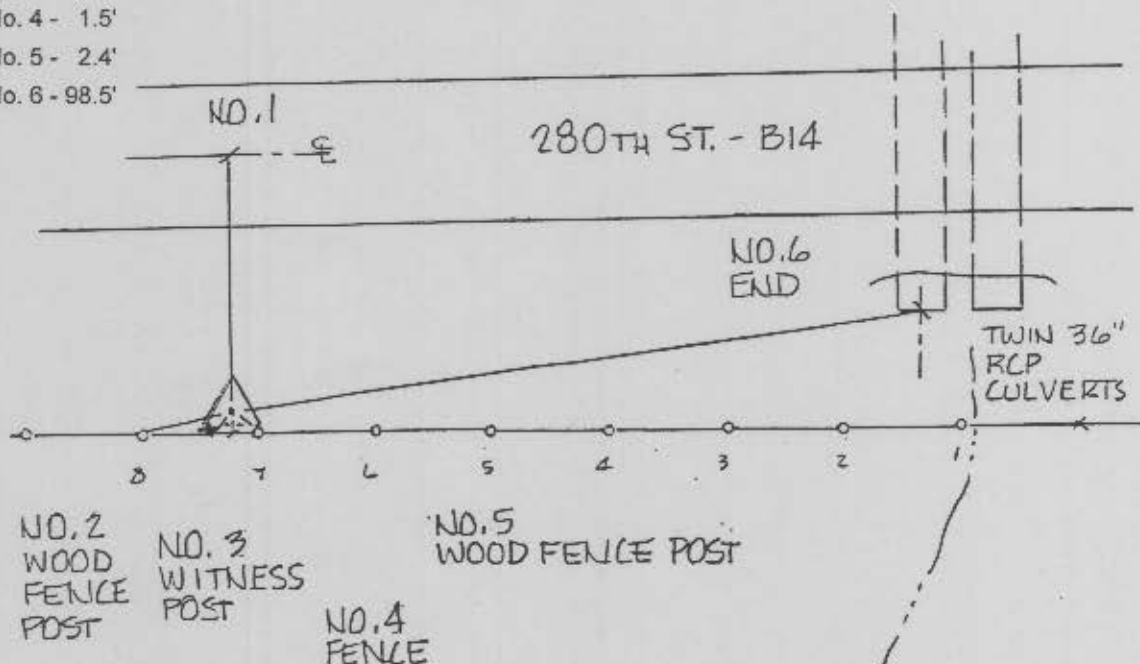
VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1424.13

ELEVATION (METERS) 434.076

TIES

No. 1 - 49.0'
No. 2 - 13.9'
No. 3 - 3.4'
No. 4 - 1.5'
No. 5 - 2.4'
No. 6 - 98.5'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION ET 15 HK GPS No. 9798 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 5 TWP 97 N RGE 35 W USGS QUAD MAP DICKENS
TO REACH FROM THE INTERSECTION OF 280TH STREET / COUNTY ROAD B14 AND 300TH AVENUE; GO WESTERLY
0.4 MILE TO MARK.

MARK STANDARD U.S.G.S. DISK IN CONCRETE, STAMPED "ET 15 HK 1964 ELEV. 1388 FT. ABOVE SEA"

☒ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☐ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

IOWA COORDINATE SYSTEM, NORTH ZONE

SCALE FACTOR: 0.99999628

COORDINATES (US FEET)

COORDINATES (METERS)

NORTHING (Y) 3920678.660

NORTHING (Y) 1195025.246

EASTING (X) 4520924.580

EASTING (X) 1377980.568

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1387.92

ELEVATION (METERS) 423.039

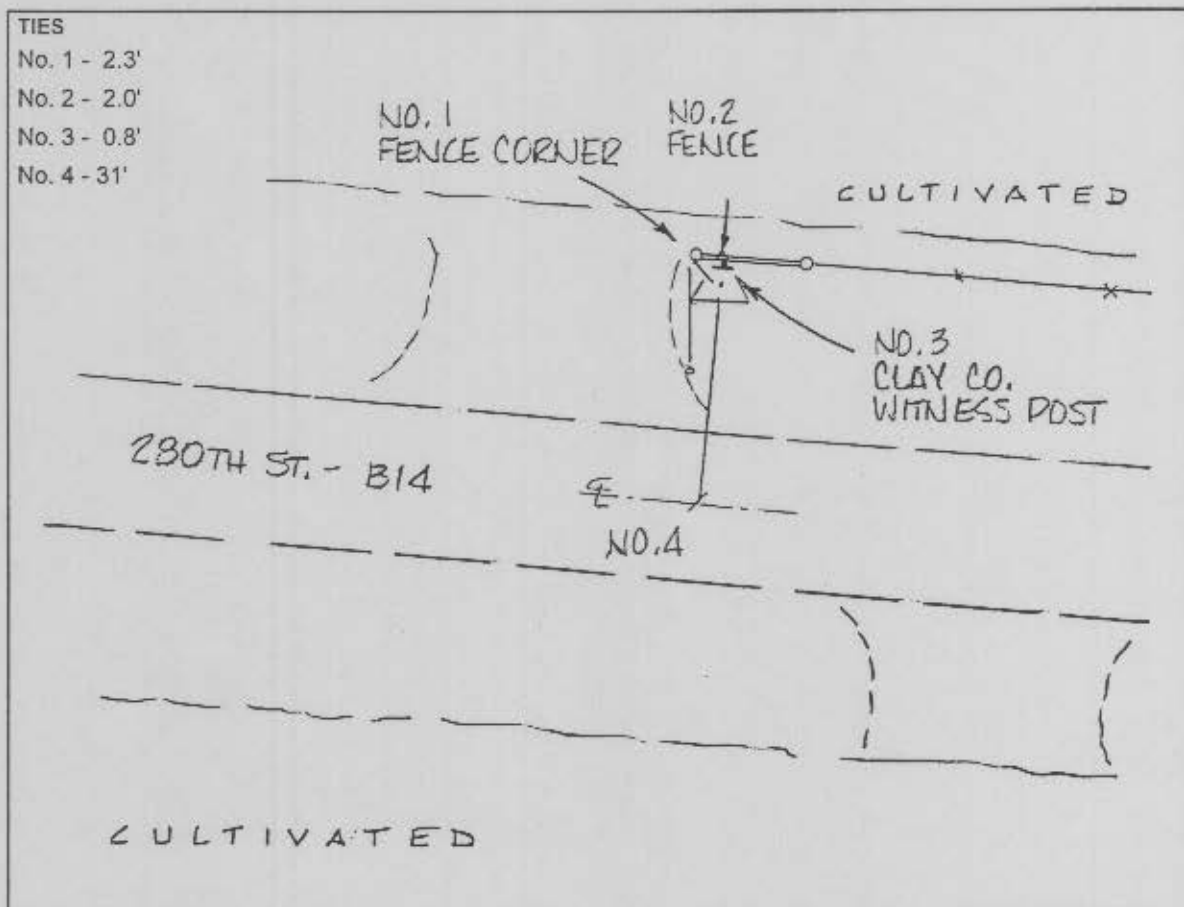
TIES

No. 1 - 2.3'

No. 2 - 2.0'

No. 3 - 0.8'

No. 4 - 31'



SECTION



SKETCH

BY DSW

DENI 9709001

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
CLAY COUNTY, IOWA

DESIGNATION ET 16 HK GPS No. 9799 COUNTY CLAY STATE IOWA
LOCATED IN SECTION 18 TWP 96 N RGE 35 W USGS QUAD MAP DICKENS
TO REACH FROM INTERSECTION OF 350TH STREET AND 290TH AVENUE NORTHEAST OF DICKENS; GO SOUTH
0.15 MILE TO MARK.

MARK STANDARD U.S.G.S. DISK IN CONCRETE, LEANING SLIGHTLY TO NORTH, STAMPED "ET 16 HK 1964"

☒ MARK EXISTING ☐ VALUES AS PUBLISHED BY _____
☐ MARK SET ☒ VALUES ESTABLISHED BY DENI ASSOCIATES, INC. DATE OCTOBER 1997

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

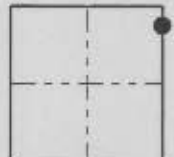
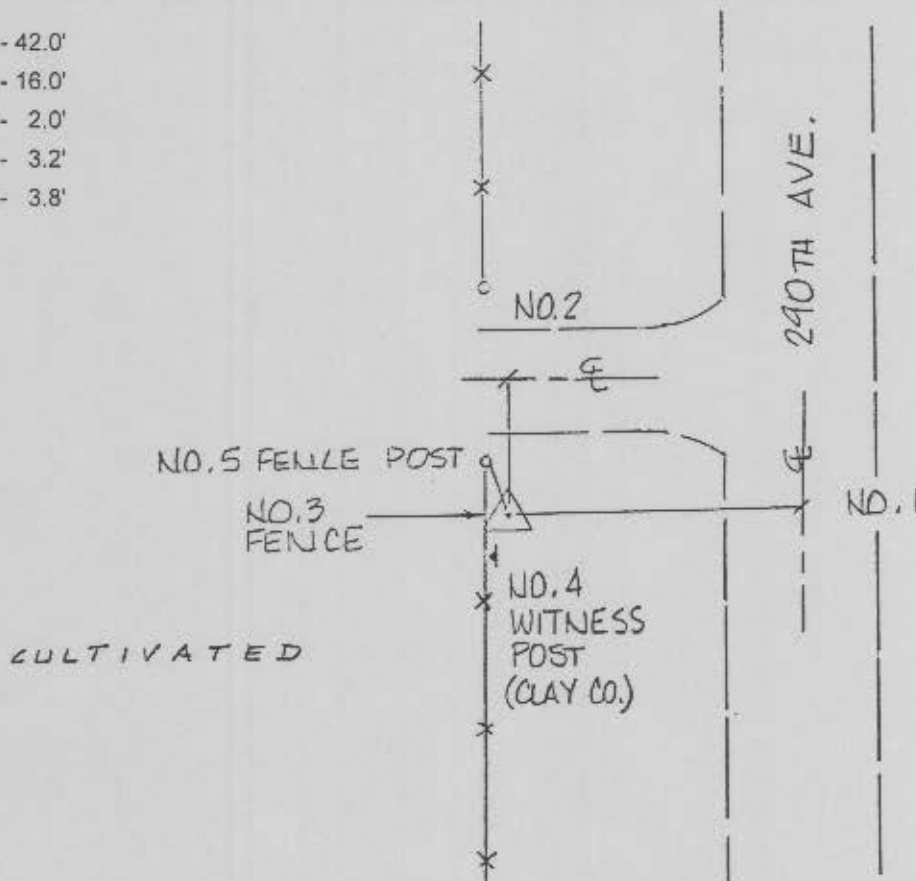
IOWA COORDINATE SYSTEM, NORTH ZONE	SCALE FACTOR: <u>0.99997919</u>
COORDINATES (US FEET)	COORDINATES (METERS)
NORTHING (Y) <u>3881790.323</u>	NORTHING (Y) <u>1183172.057</u>
EASTING (X) <u>4517717.512</u>	EASTING (X) <u>1377003.052</u>

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND / OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) <u>1368.75</u>	ELEVATION (METERS) <u>417.196</u>
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TIES

- No. 1 - 42.0'
- No. 2 - 16.0'
- No. 3 - 2.0'
- No. 4 - 3.2'
- No. 5 - 3.8'



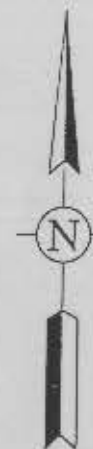
SECTION



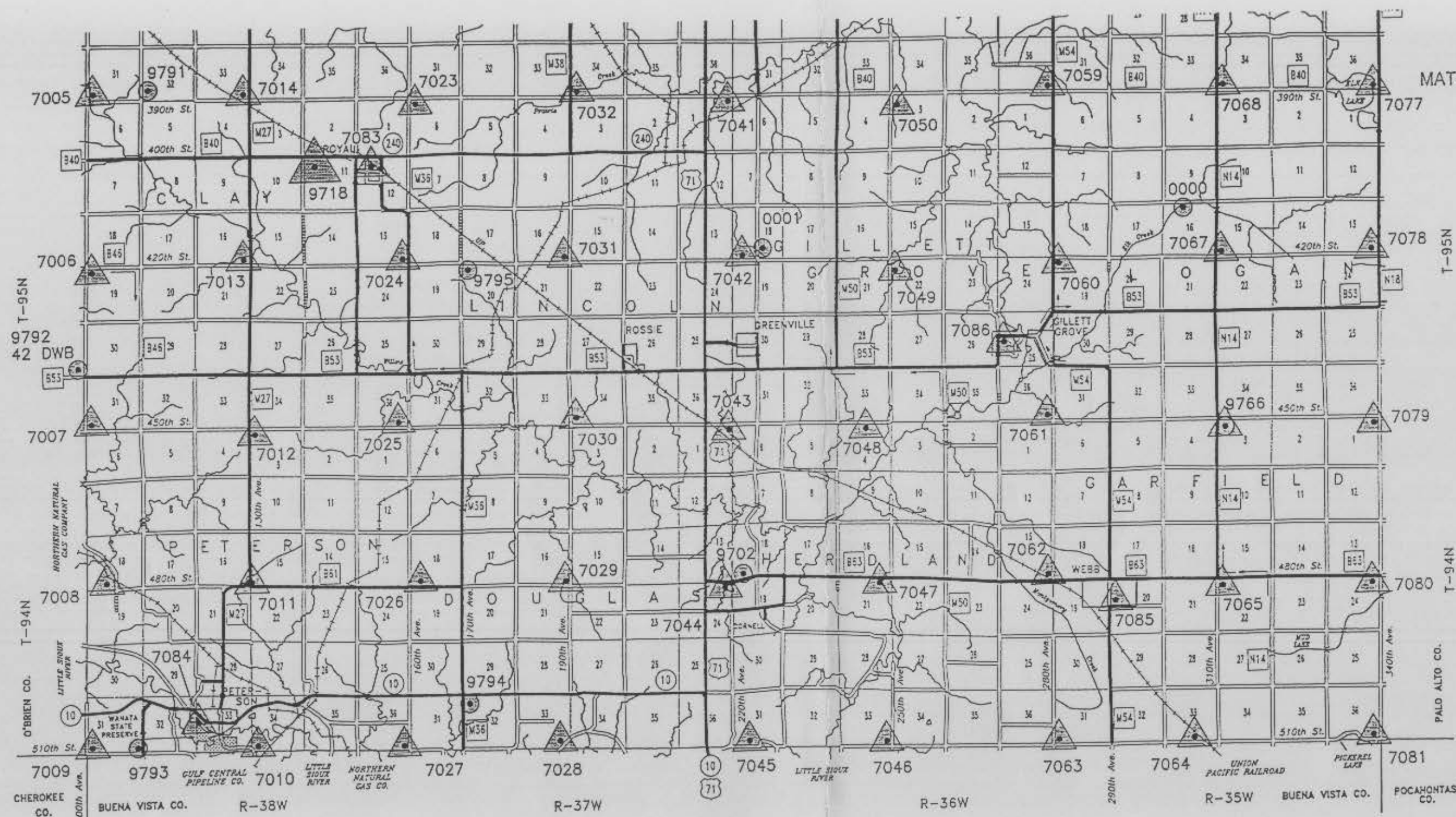
SKETCH

BY DSW

DENI 9709001



CLAY COUNTY, IOWA



PROJECT DIAGRAM

Geodetic Control Stations Location

10560' 0 10560' 21120'
2 MILES 0 2 MILES 4 MILES

SCALE 1" = 2 MILES (10560')

Deni Associates Inc.
6241 ARC WAY
FORT MYERS
FLORIDA 33912

DATE	PROJECT NO.	REVISIONS
OCT. 1997	9709001	GPS SURVEY FIELD OBSERVATIONS

CLAY COUNTY, IOWA