

Hardin County
Iowa

NAD 83(NA2011)

Iowa North Zone (1401)

&

IaRCS Zone 4

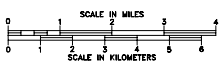
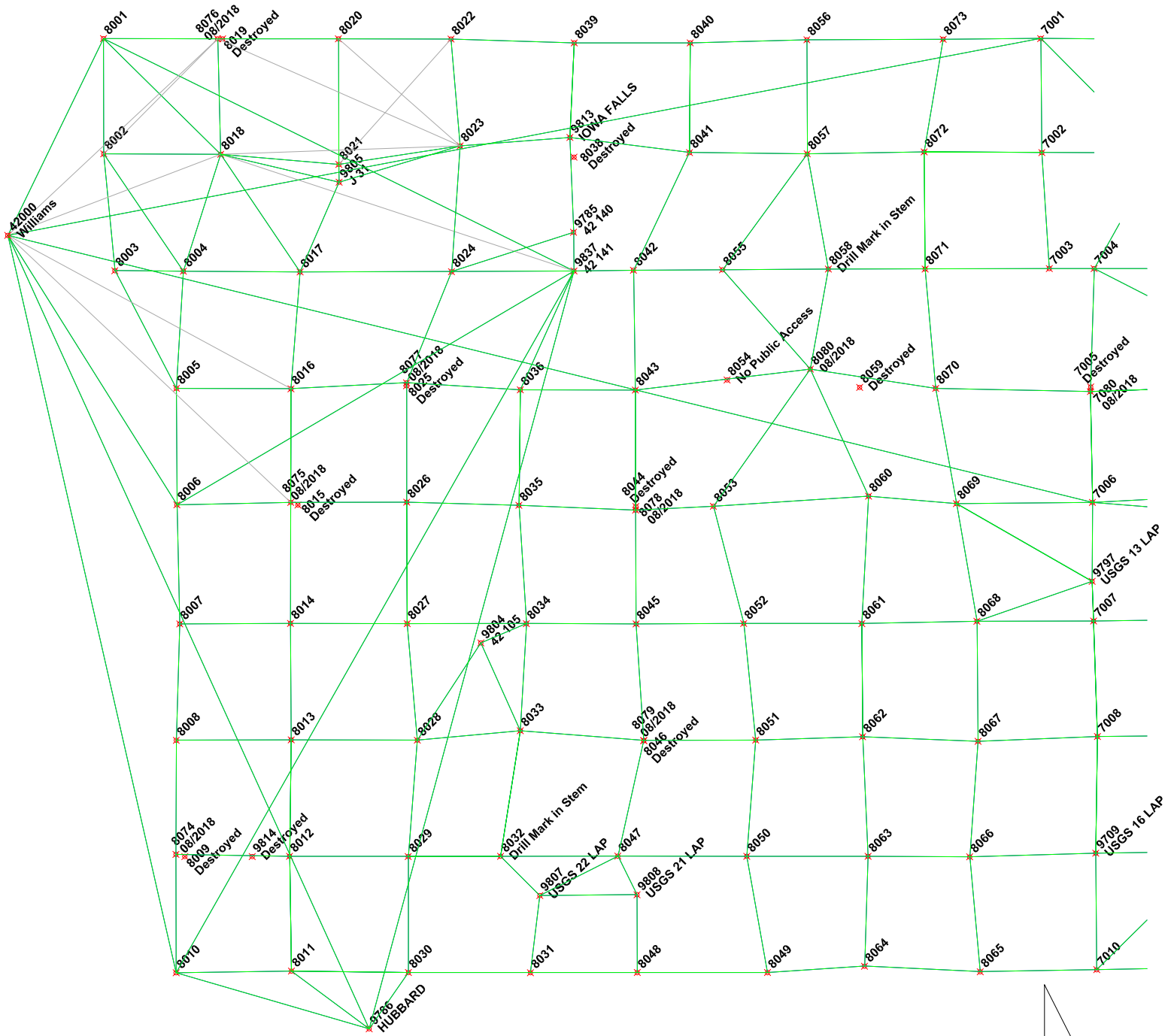
Monument Records

2018

Dan Corbin, Inc.
28 River Ridge Lane
Cedar Falls, IA 50613



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Fax: (319) 266-3398
E-Mail: dcorbin@cfu.net



2018 Hardin County, IA NA2011 Network
 Prepared by: Dan Corbin, Inc.



Hardin County, Iowa

Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
Iowa State Plane North Zone (1401)
Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
US Survey Feet
9/30/18

Point Name: **7001**

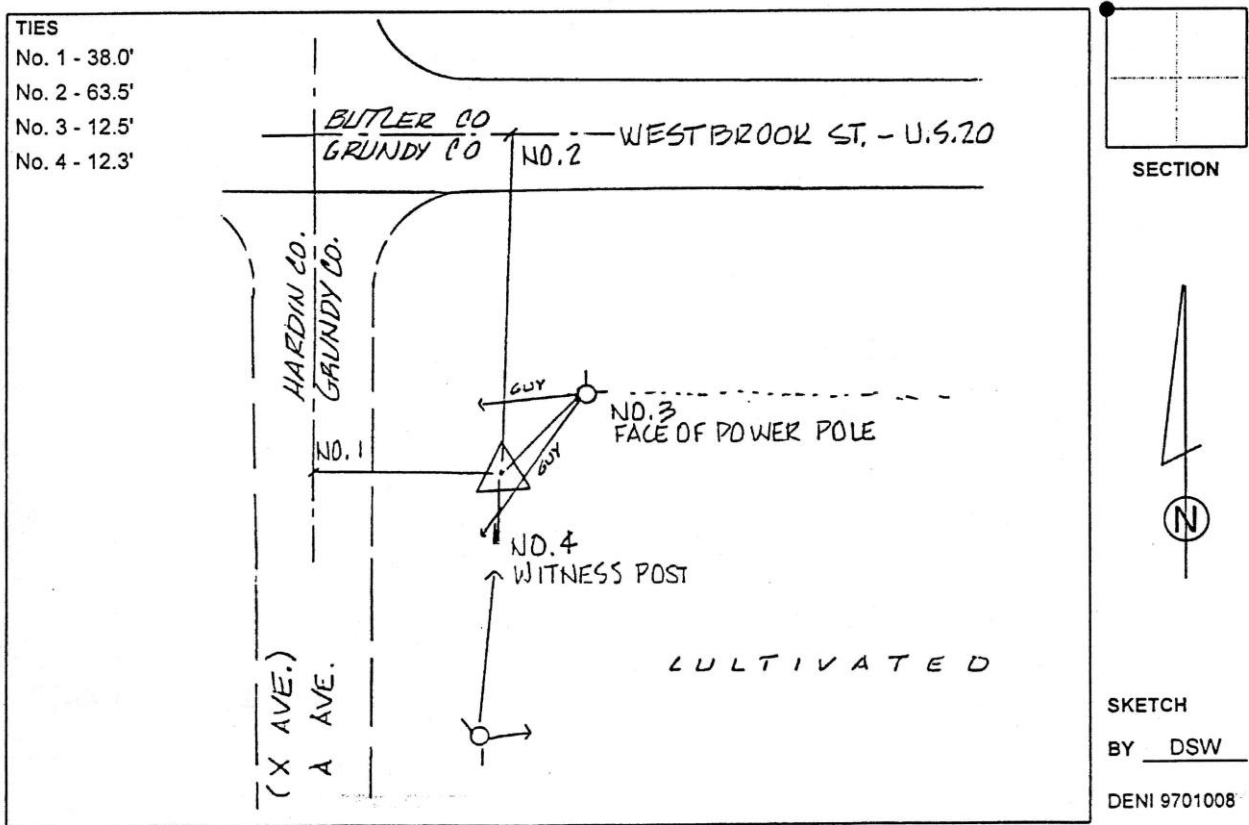
Designation: 891806 4 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°33'23.87533"** Longitude: **W93°01'36.68332"**
NAVD 88 Ortho Height: **1068.540sft** Ellip. Ht: **965.533sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3666250.502sft** Easting: **5048725.340sft**
Mapping Angle: **0°19'14"** Combination Scale Factor: **0.9999010868**

IaRCS Zone 4 Northing: **8613678.738sft** Easting: **14986718.171sft**
Mapping Angle: **1°13'16"** Combination Scale Factor: **0.9999989278**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
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Point Name: **7002**

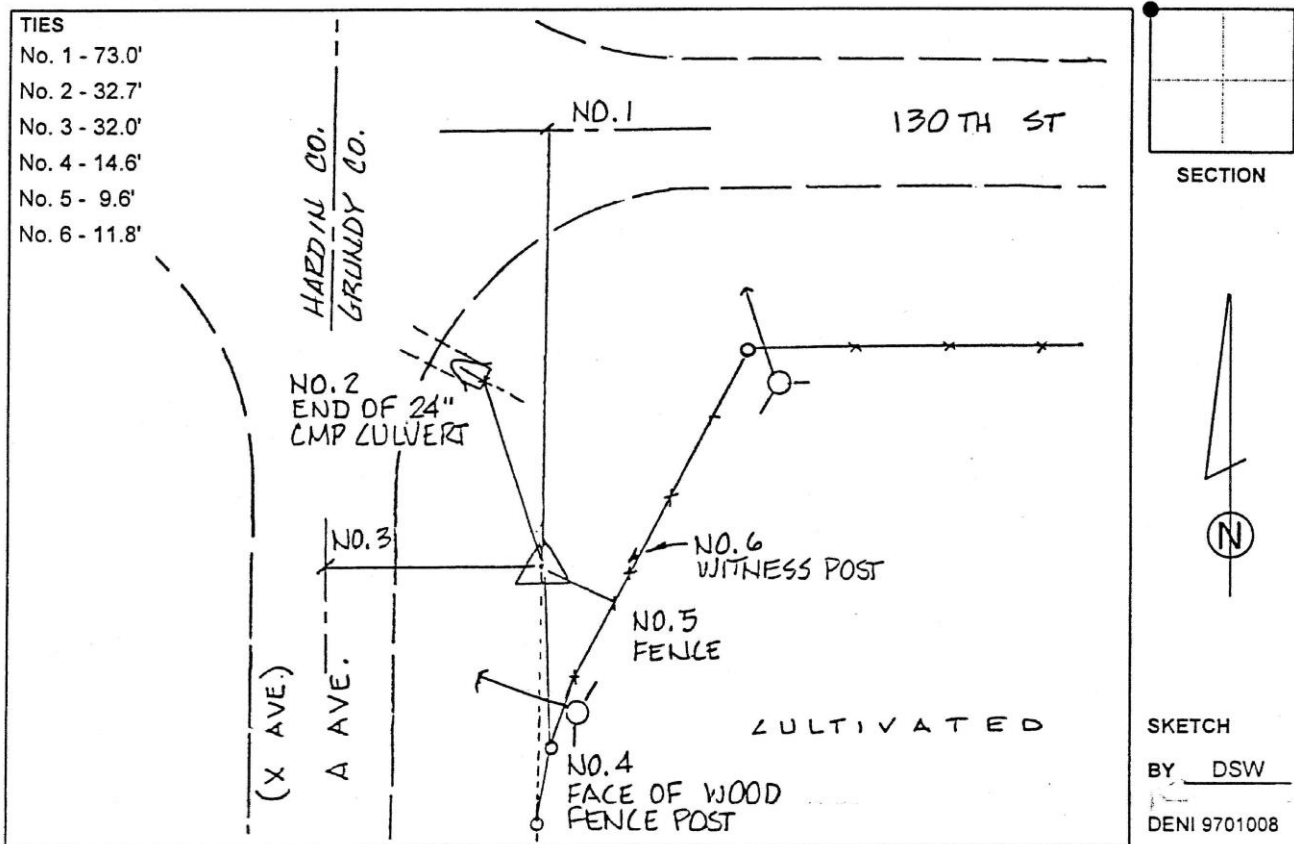
Designation: 891819 4 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°30'50.79792"** Longitude: **W93°01'35.83617"**
 NAVD 88 Ortho Height: **1090.740sft** Ellip. Ht: **987.435sft** Geoid12B

Iowa North Zone (1401) Northing: **3650755.067sft** Easting: **5048875.510sft**
 Mapping Angle: **0°19'15"** Combination Scale Factor: **0.9999017448**

IaRCS Zone 4 Northing: **8598186.075sft** Easting: **14987111.898sft**
 Mapping Angle: **1°13'17"** Combination Scale Factor: **0.9999978543**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **7003**

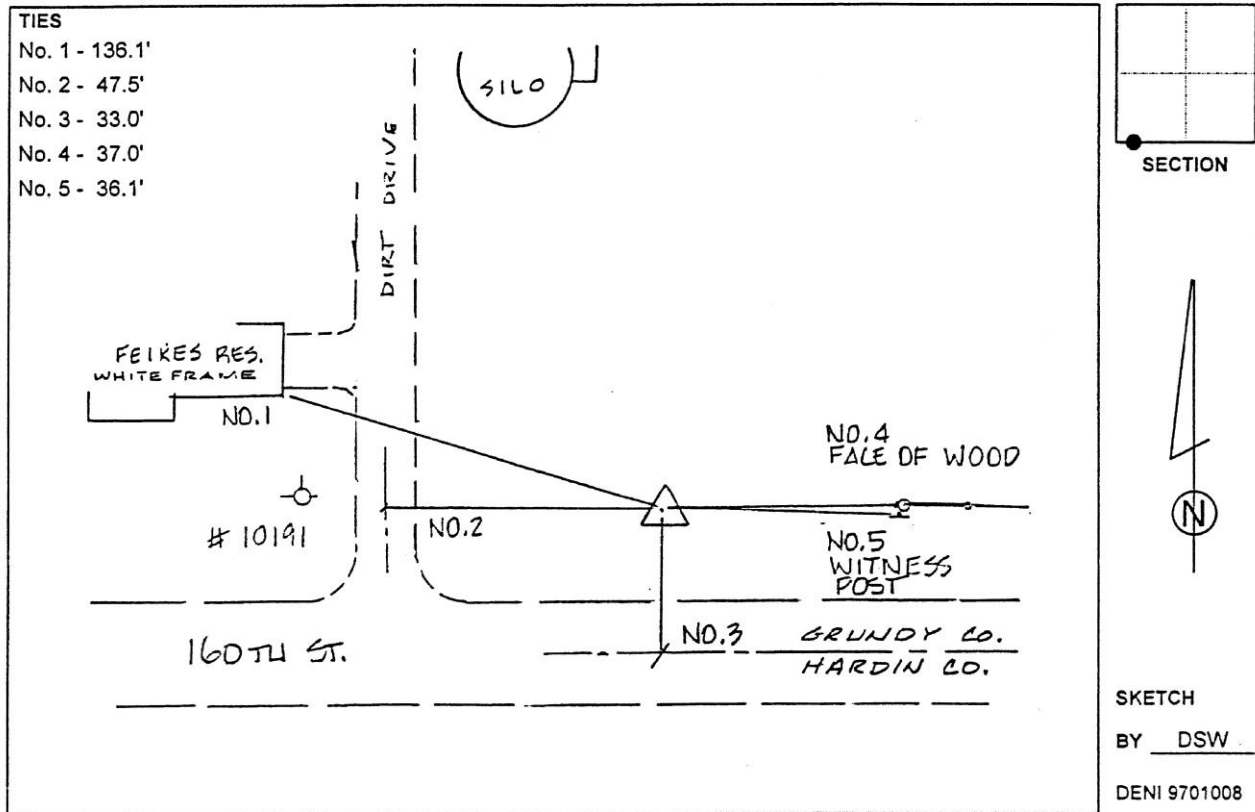
Designation: 891831 3 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°28'15.01066"** Longitude: **W93°01'23.54531"**
 NAVD 88 Ortho Height: **1070.810sft** Ellip. Ht: **967.244sft** Geoid12B

Iowa North Zone (1401) Northing: **3634990.227sft** Easting: **5049884.910sft**
 Mapping Angle: **0°19'23"** Combination Scale Factor: **0.9999050069**

IaRCS Zone 4 Northing: **8582437.547sft** Easting: **14988369.066sft**
 Mapping Angle: **1°13'25"** Combination Scale Factor: **0.9999993556**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **7004**

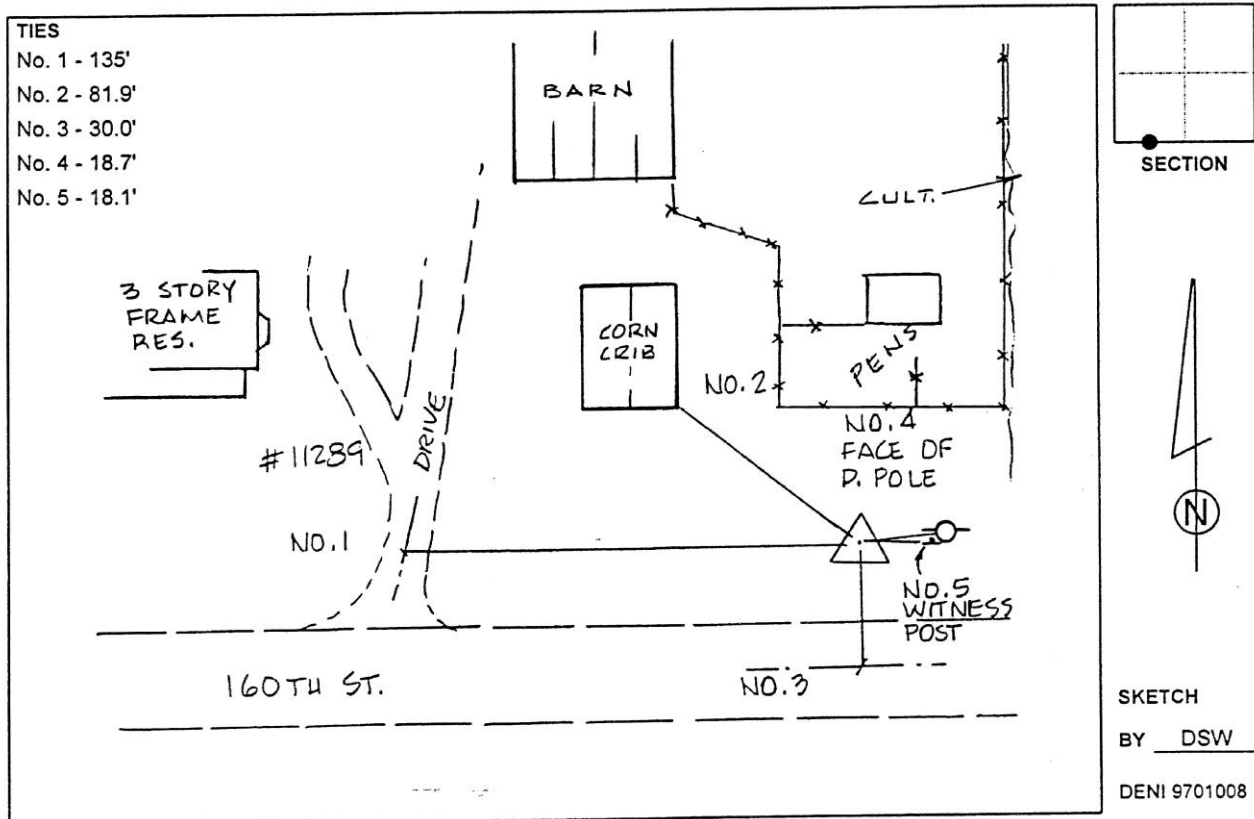
Designation: 891832 3 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°28'14.57098"** Longitude: **W93°00'02.19757"**
 NAVD 88 Ortho Height: **1056.898sft** Ellip. Ht: **953.073sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3634980.918sft** Easting: **5055981.483sft**
 Mapping Angle: **0°20'18"** Combination Scale Factor: **0.9999056915**

laRCS Zone 4 Northing: **8582524.063sft** Easting: **14994465.607sft**
 Mapping Angle: **1°14'20"** Combination Scale Factor: **1.0000000353**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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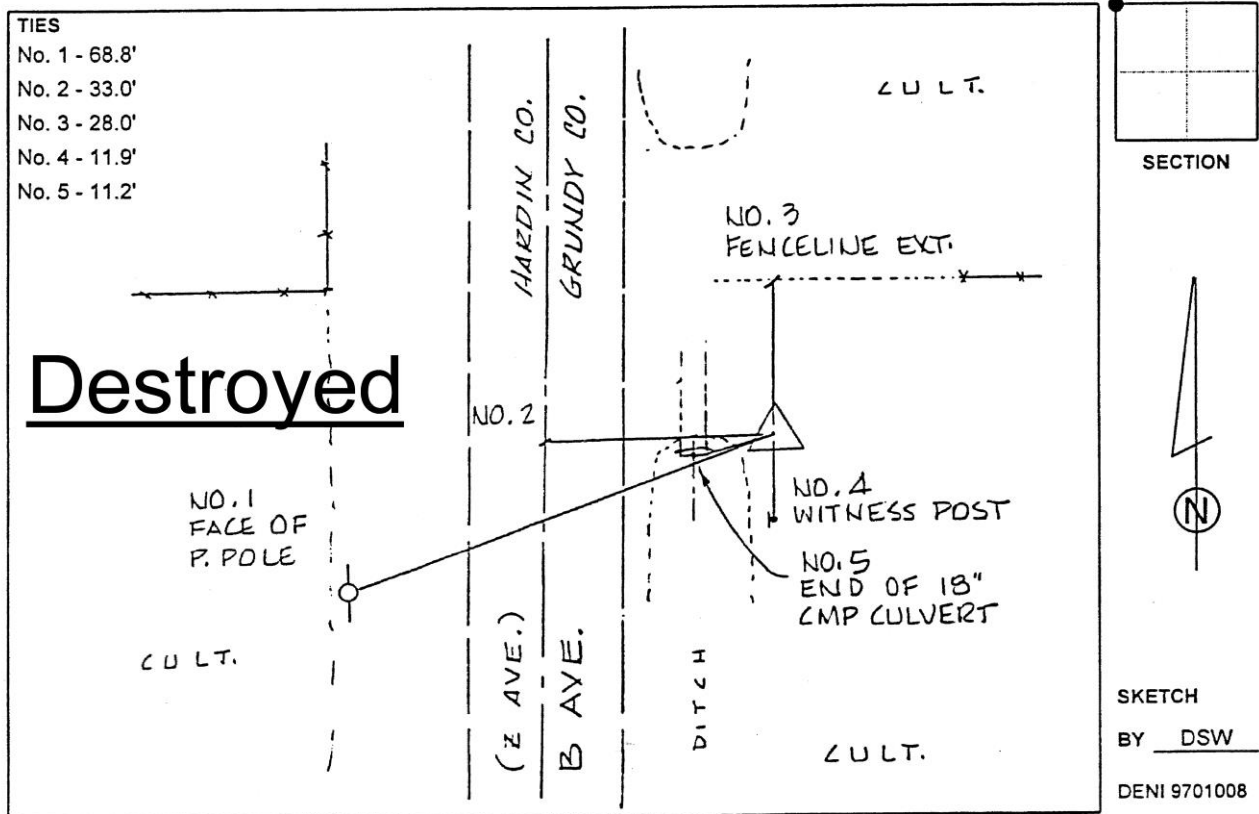
Point Name: **7005 (Destroyed)**

Designation: 881819 4 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: ~~N 42 25 35.88009~~ Longitude: ~~W 93 00 09.65823~~
 NAVD 88 Ortho Height: ~~1117.000~~sft Ellip. Ht: ~~1013.384~~sft

Iowa North Zone (1401) Northing: ~~3618913.780~~sft Easting: ~~5055516.870~~sft
 Mapping Angle: ~~0 20 13.39~~ Combination Scale Factor: ~~0.9999541700~~

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **7006**

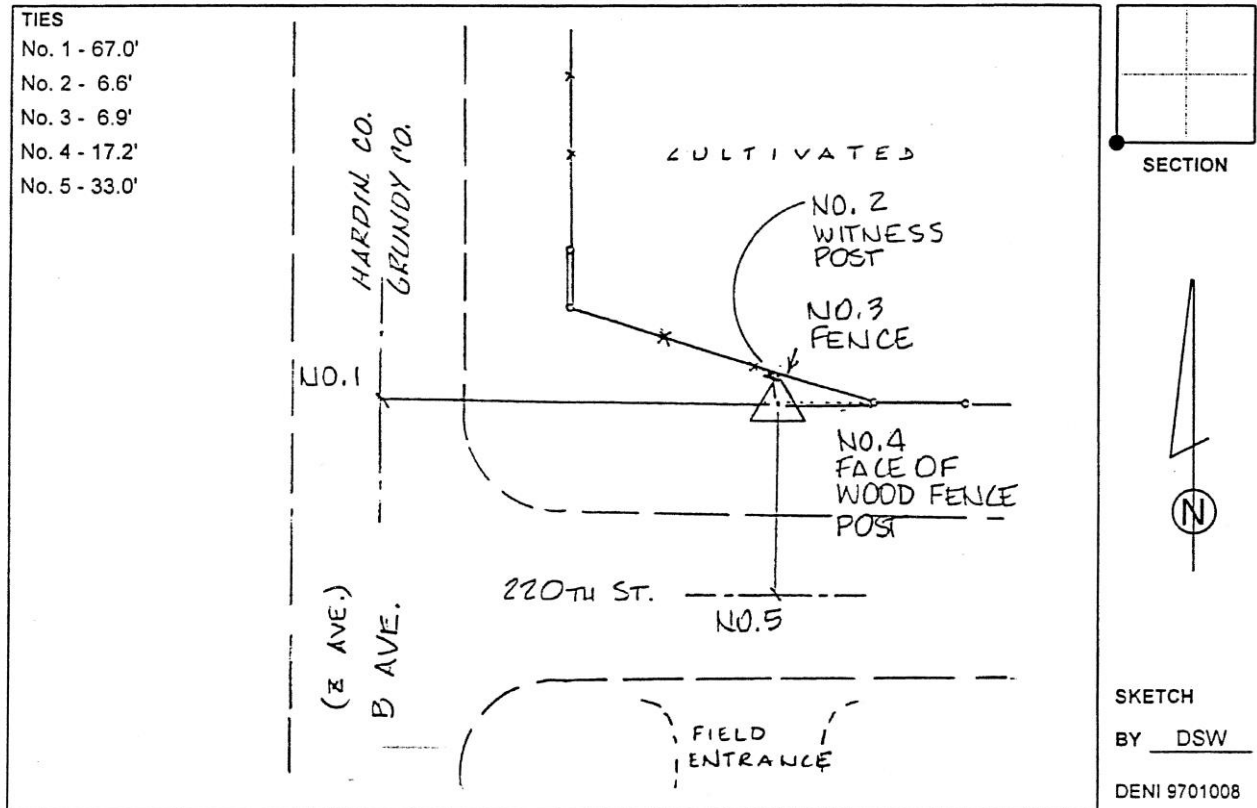
Designation: 881831 3 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°23'00.73055"** Longitude: **W93°00'07.77493"**
 NAVD 88 Ortho Height: **1071.521sft** Ellip. Ht: **967.593sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3603209.331sft** Easting: **5055750.595sft**
 Mapping Angle: **0°20'15"** Combination Scale Factor: **0.9999113479**

IaRCS Zone 4 Northing: **8550749.829sft** Easting: **14994734.095sft**
 Mapping Angle: **1°14'16"** Combination Scale Factor: **1.0000021484**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **7007**

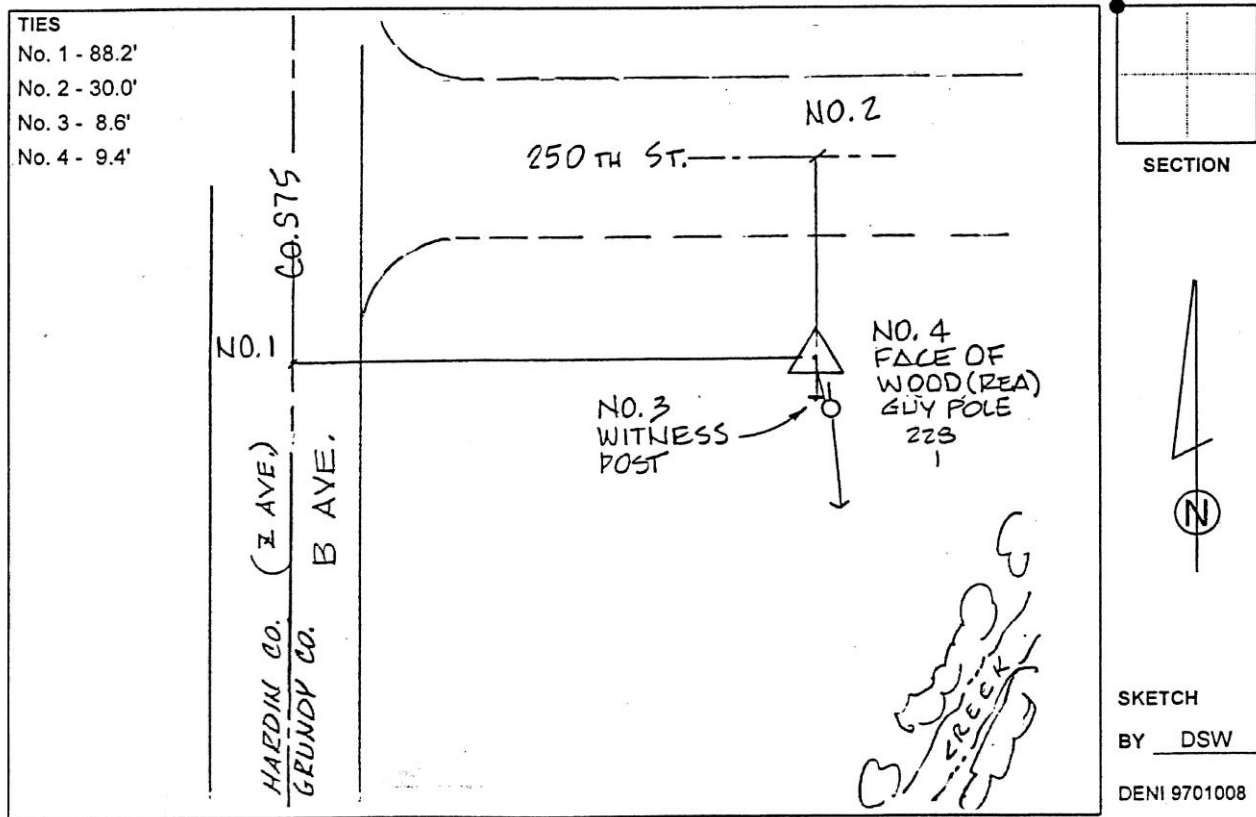
Designation: 871819 4 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°20'21.63585"** Longitude: **W93°00'06.96630"**
 NAVD 88 Ortho Height: **1030.926sft** Ellip. Ht: **927.021sft** Geoid12B

Iowa North Zone (1401) Northing: **3587105.109sft** Easting: **5055906.161sft**
 Mapping Angle: **0°20'15"** Combination Scale Factor: **0.9999173835**

laRCS Zone 4 Northing: **8534648.594sft** Easting: **14995142.773sft**
 Mapping Angle: **1°14'17"** Combination Scale Factor: **1.0000063900**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **7008**

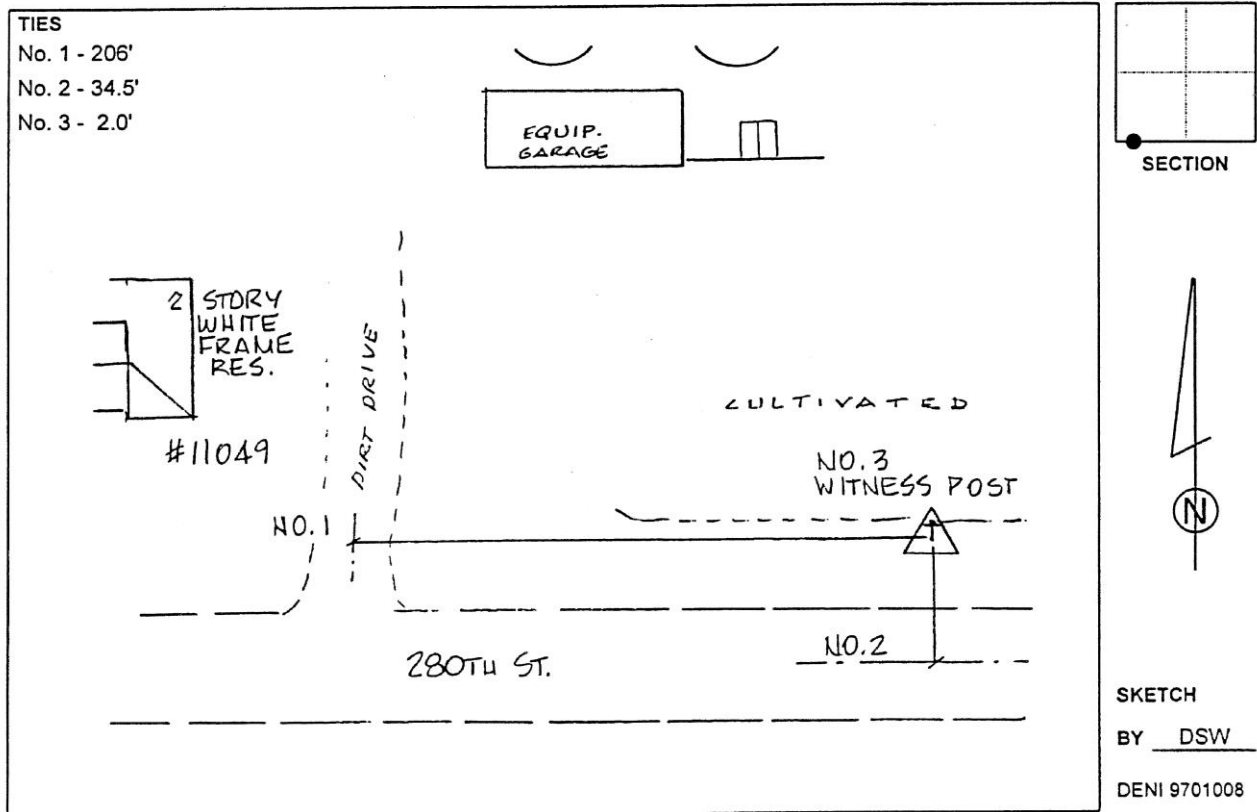
Designation: 871831 3 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°17'46.70209"** Longitude: **W93°00'01.25263"**
 NAVD 88 Ortho Height: **1052.620sft** Ellip. Ht: **948.752sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3571424.313sft** Easting: **5056427.945sft**
 Mapping Angle: **0°20'19"** Combination Scale Factor: **0.9999209008**

IaRCS Zone 4 Northing: **8518976.553sft** Easting: **14995911.000sft**
 Mapping Angle: **1°14'21"** Combination Scale Factor: **1.0000081610**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **7010**

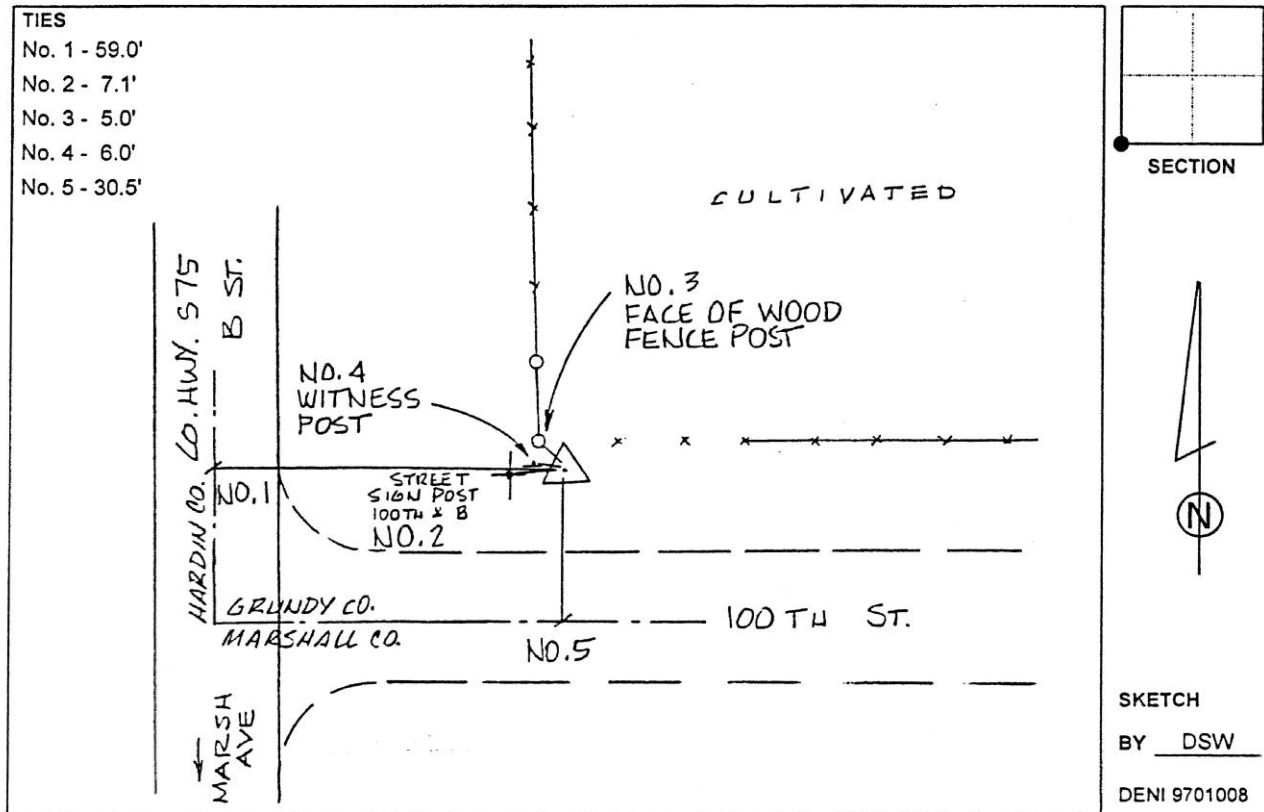
Designation: 861831 3 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°12'33.66231"** Longitude: **W93°00'05.21486"**
 NAVD 88 Ortho Height: **935.820sft** Ellip. Ht: **832.076sft** Geoid12B

Iowa North Zone (1401) Northing: **3539734.901sft** Easting: **5056317.056sft**
 Mapping Angle: **0°20'16"** Combination Scale Factor: **0.9999373876**

IaRCS Zone 4 Northing: **8487286.603sft** Easting: **14996298.188sft**
 Mapping Angle: **1°14'18"** Combination Scale Factor: **1.0000211242**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **7080**

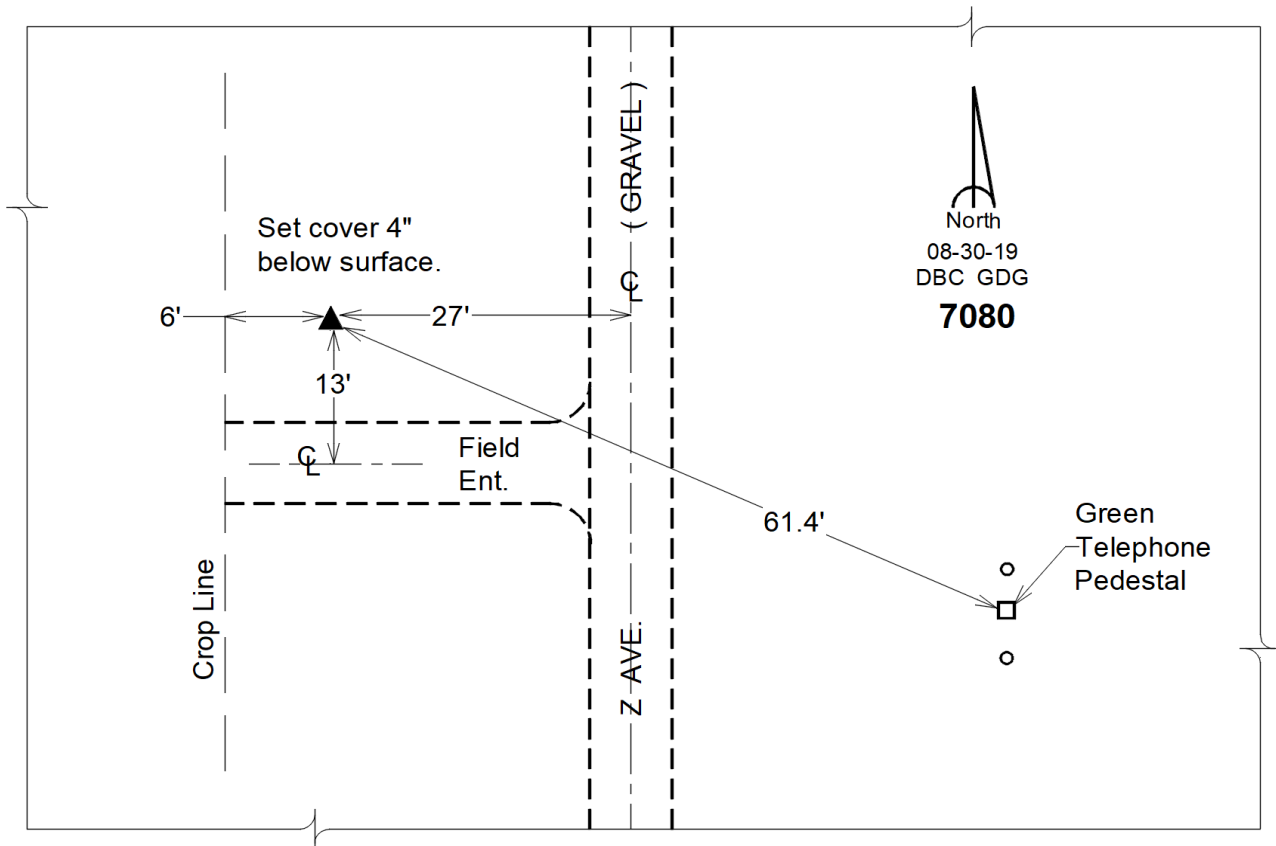
Designation: Grundy County 7080 (Set by DCI in 2018)

NAD 83(NA2011) Latitude: **N42°25'29.75477"** Longitude: **W93°00'10.41468"**
 NAVD 88 Ortho Height: **1130.056sft** Ellip. Ht: **1026.160sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3618293.403sft** Easting: **5055463.787sft**
 Mapping Angle: **0°20'13"** Combination Scale Factor: **0.9999052467**

IaRCS Zone 4 Northing: **8565828.913sft** Easting: **14994210.213sft**
 Mapping Angle: **1°14'15"** Combination Scale Factor: **0.9999977288**

Monument Type: Berntsen "Top Security" aluminum rod monument with a 2-1/2" dia. survey cap and permanent magnet encased in a white PVC pipe with a NGS style aluminum access cover.



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9/30/18

Point Name: **8001**

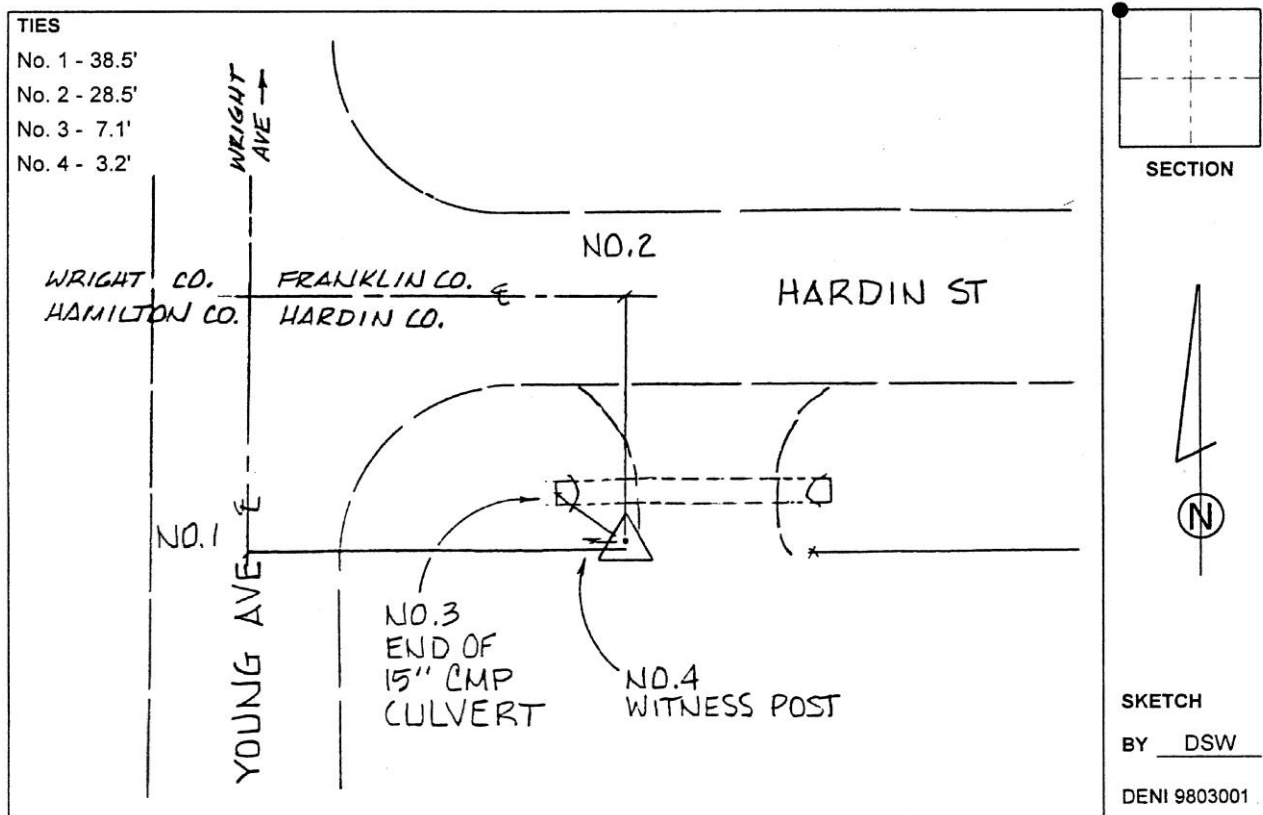
Designation: 892206 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°33'27.24315"** Longitude: **W93°29'57.73277"**
 NAVD 88 Ortho Height: **1152.600sft** Ellip. Ht: **1062.246sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3666234.703sft** Easting: **4921419.677sft**
 Mapping Angle: **0°00'02"** Combination Scale Factor: **0.9998964330**

IaRCS Zone 4 Northing: **8611661.002sft** Easting: **14859416.036sft**
 Mapping Angle: **0°54'06"** Combination Scale Factor: **0.9999943116**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8002**

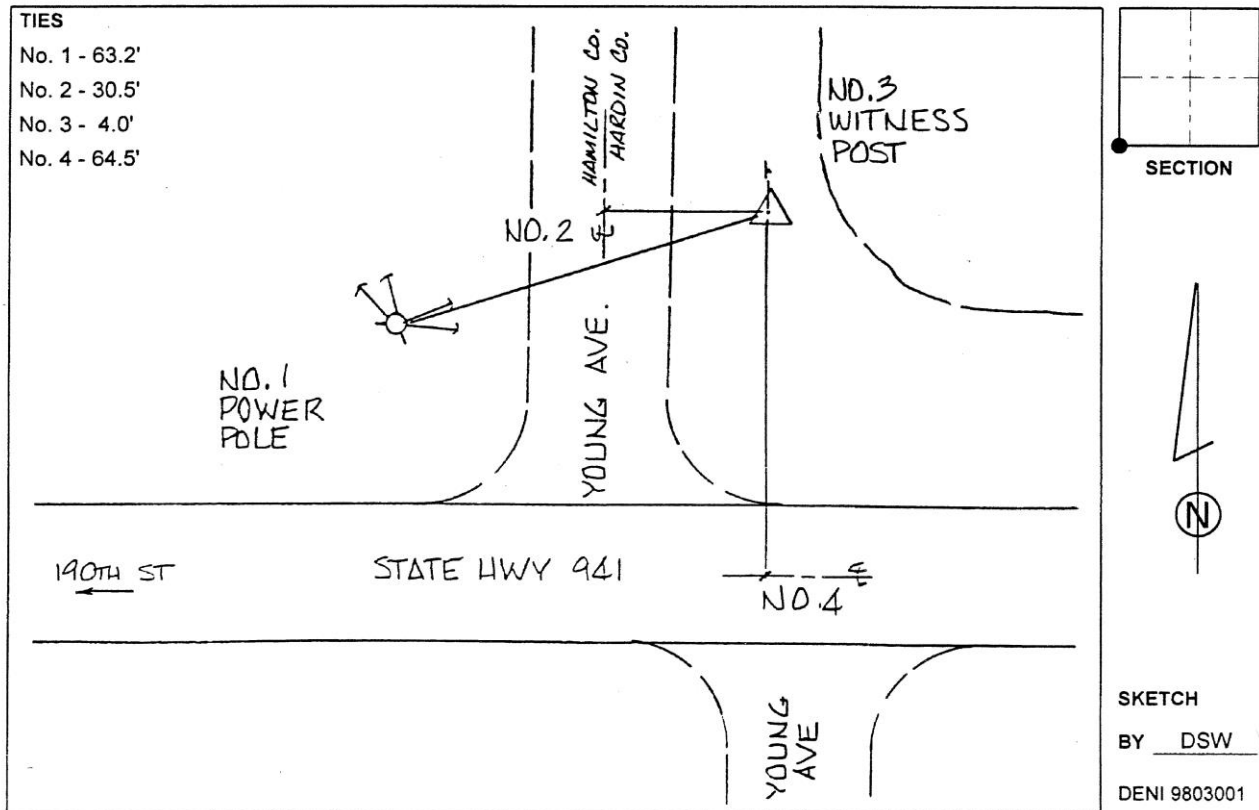
Designation: 892218 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°30'52.48793"** Longitude: **W93°29'57.26195"**
 NAVD 88 Ortho Height: **1147.670sft** Ellip. Ht: **1056.932sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3650568.825sft** Easting: **4921455.053sft**
 Mapping Angle: **0°00'02"** Combination Scale Factor: **0.9998984014**

IaRCS Zone 4 Northing: **8595996.100sft** Easting: **14859697.875sft**
 Mapping Angle: **0°54'07"** Combination Scale Factor: **0.9999945296**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8003**

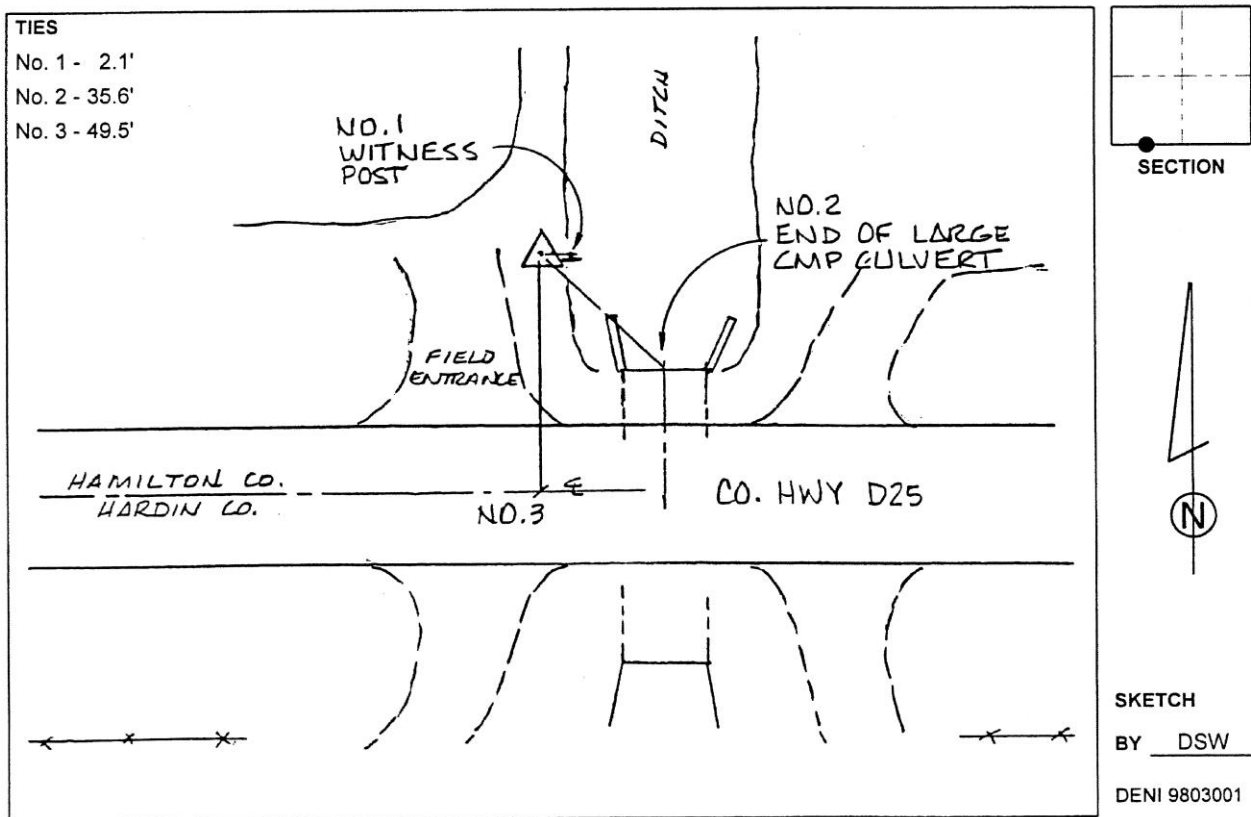
Designation: 892231 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°28'15.81126"** Longitude: **W93°29'36.97747"**
 NAVD 88 Ortho Height: **1150.250sft** Ellip. Ht: **1058.891sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3634708.591sft** Easting: **4922975.363sft**
 Mapping Angle: **0°00'16"** Combination Scale Factor: **0.9999006133**

IaRCS Zone 4 Northing: **8580160.236sft** Easting: **14861467.661sft**
 Mapping Angle: **0°54'20"** Combination Scale Factor: **0.9999949707**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8004**

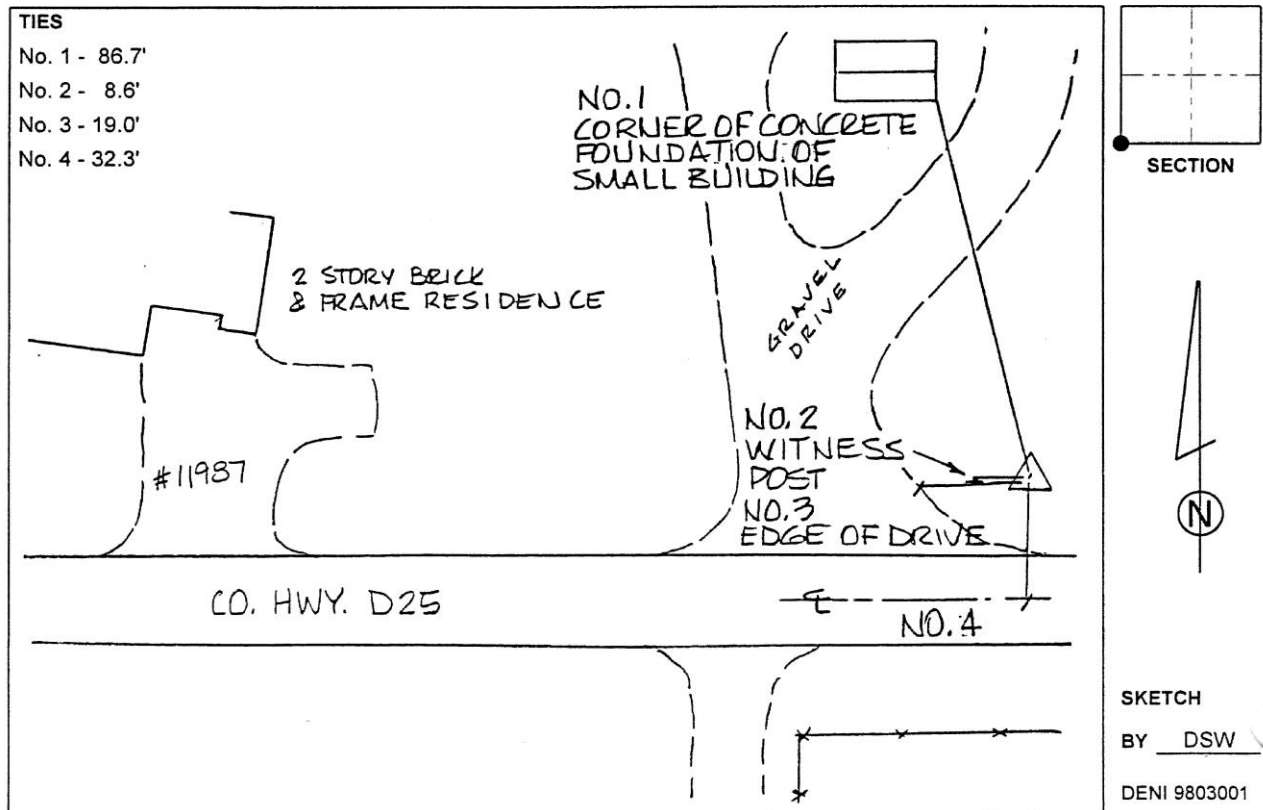
Designation: 892233 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°28'15.11820"** Longitude: **W93°27'32.97007"**
 NAVD 88 Ortho Height: **1143.210sft** Ellip. Ht: **1050.937sft** Geoid12B

Iowa North Zone (1401) Northing: **3634641.029sft** Easting: **4932268.801sft**
 Mapping Angle: **0°01'40"** Combination Scale Factor: **0.9999010049**

IaRCS Zone 4 Northing: **8580238.879sft** Easting: **14870761.889sft**
 Mapping Angle: **0°55'44"** Combination Scale Factor: **0.9999953545**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8005**

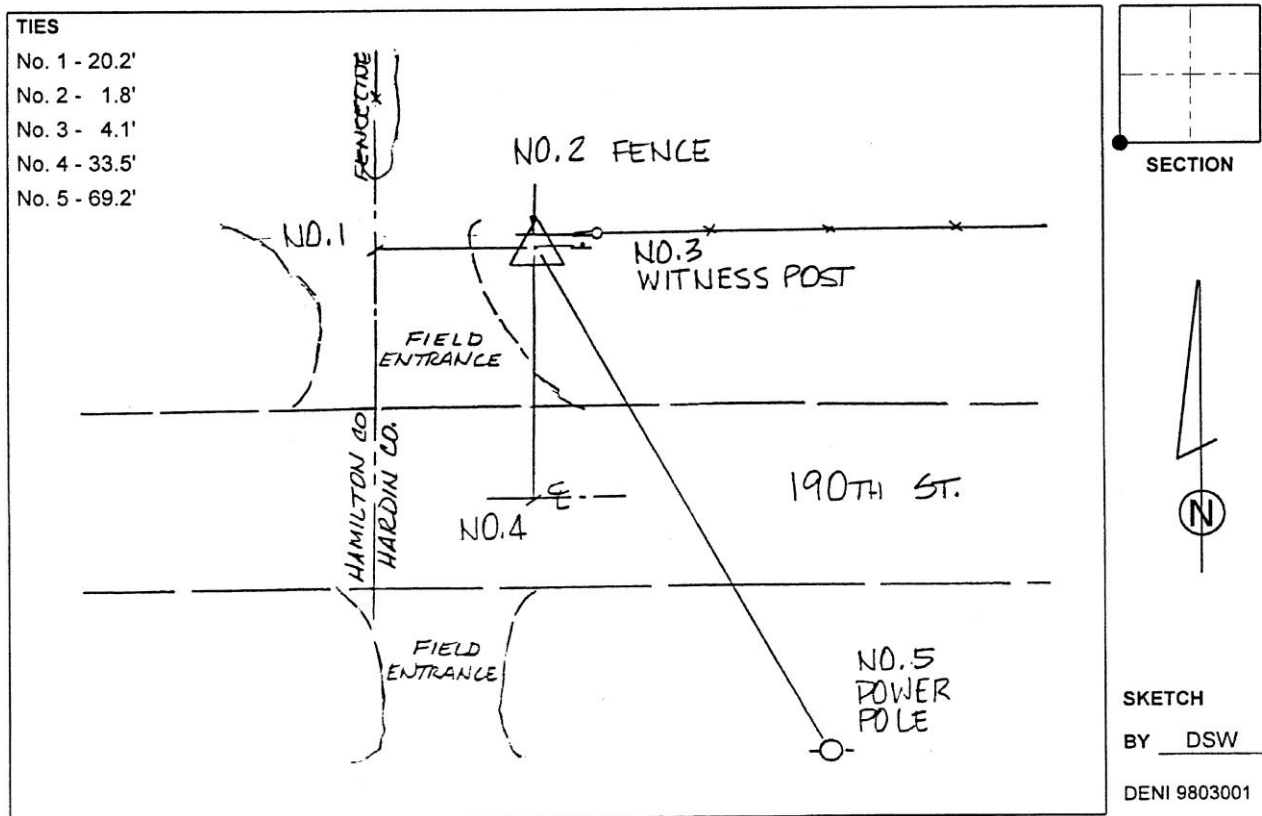
Designation: 882218 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°25'37.70787"** Longitude: **W93°27'45.65139"**
 NAVD 88 Ortho Height: **1161.460sft** Ellip. Ht: **1068.735sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3618706.106sft** Easting: **4931325.464sft**
 Mapping Angle: **0°01'31"** Combination Scale Factor: **0.9999030501**

IaRCS Zone 4 Northing: **8564289.597sft** Easting: **14870069.259sft**
 Mapping Angle: **0°55'36"** Combination Scale Factor: **0.9999956218**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8006**

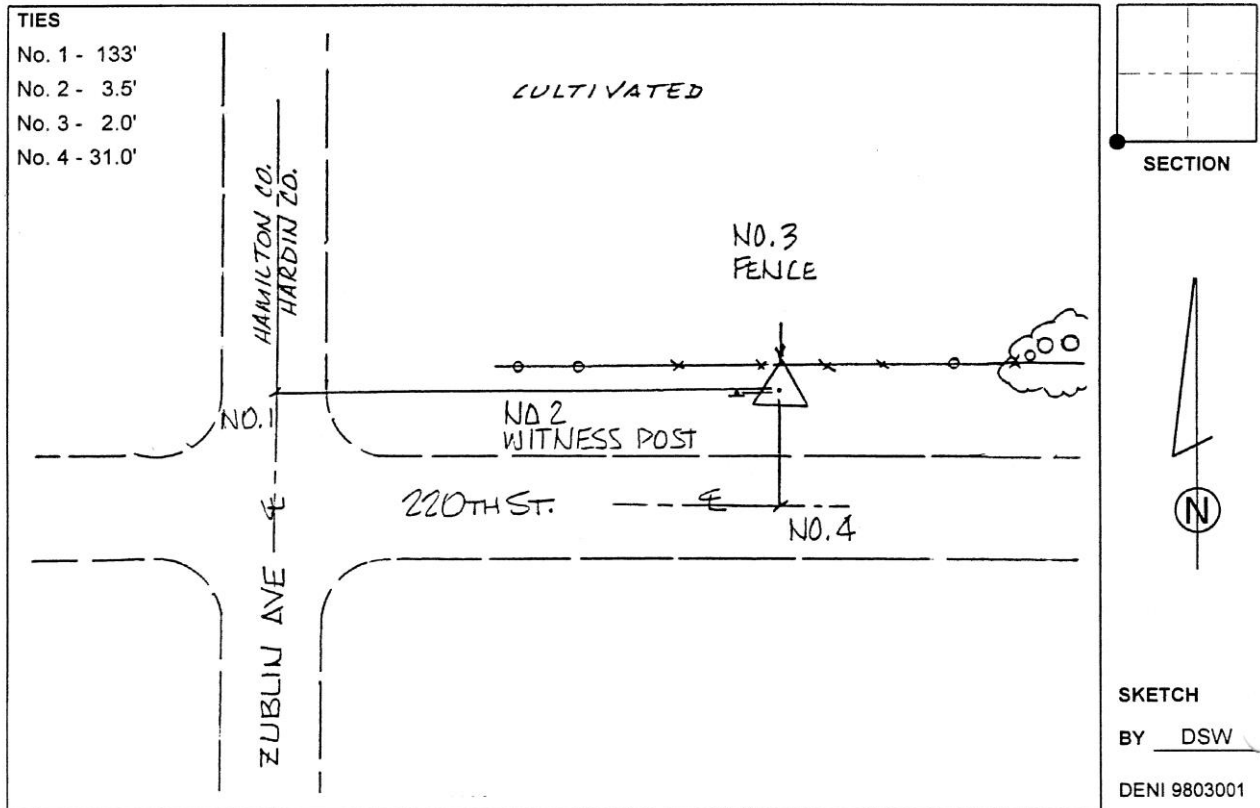
Designation: 882231 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°23'01.50103"** Longitude: **W93°27'44.66027"**
NAVD 88 Ortho Height: **1156.500sft** Ellip. Ht: **1063.274sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3602893.552sft** Easting: **4931406.825sft**
Mapping Angle: **0°01'32"** Combination Scale Factor: **0.9999067563**

IaRCS Zone 4 Northing: **8548478.831sft** Easting: **14870399.370sft**
Mapping Angle: **0°55'36"** Combination Scale Factor: **0.9999975651**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8007**

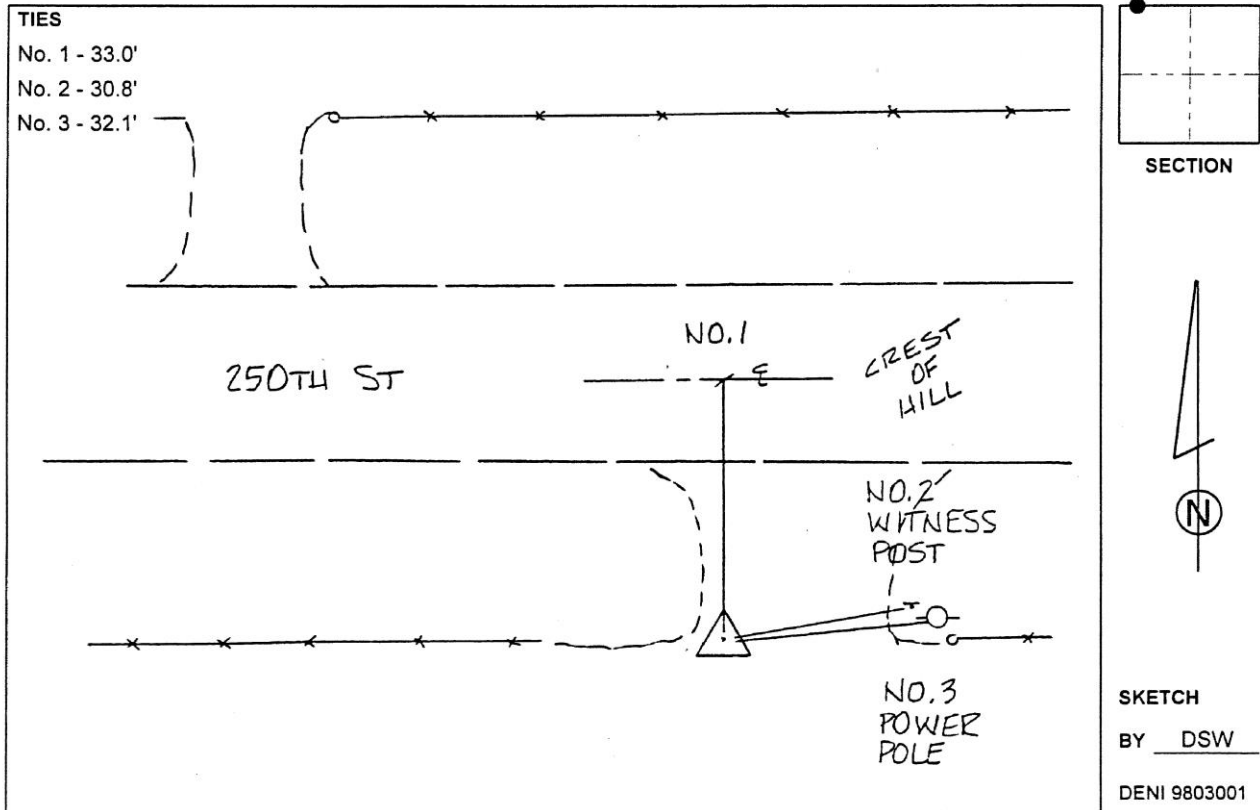
Designation: 872219 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°20'21.78770"** Longitude: **W93°27'39.75911"**
 NAVD 88 Ortho Height: **1203.370sft** Ellip. Ht: **1109.643sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3586726.239sft** Easting: **4931782.092sft**
 Mapping Angle: **0°01'35"** Combination Scale Factor: **0.9999086506**

IaRCS Zone 4 Northing: **8532317.968sft** Easting: **14871028.956sft**
 Mapping Angle: **0°55'40"** Combination Scale Factor: **0.9999976579**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8008**

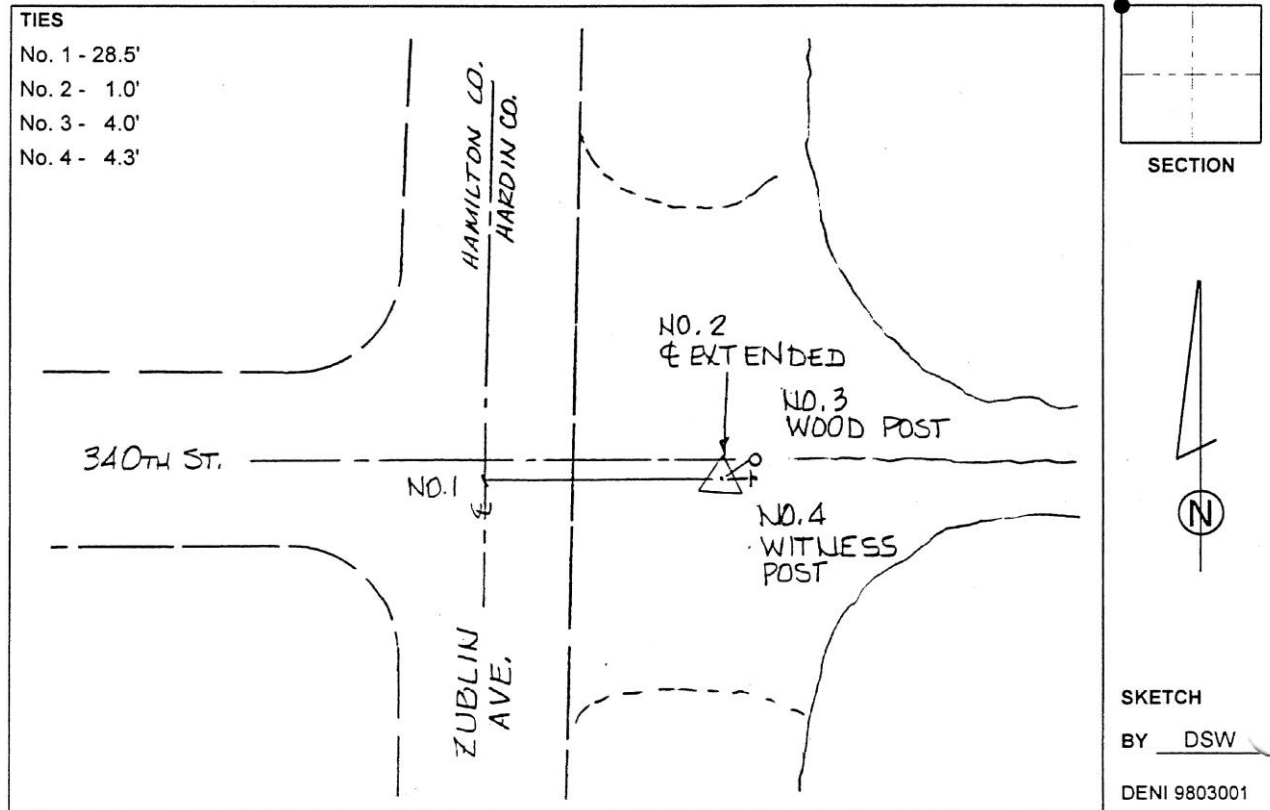
Designation: 862206 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°17'45.53569"** Longitude: **W93°27'46.06417"**
 NAVD 88 Ortho Height: **1221.920sft** Ellip. Ht: **1127.751sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3570908.983sft** Easting: **4931315.543sft**
 Mapping Angle: **0°01'31"** Combination Scale Factor: **0.9999123815**

IaRCS Zone 4 Northing: **8516493.935sft** Easting: **14870811.249sft**
 Mapping Angle: **0°55'35"** Combination Scale Factor: **0.9999996279**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
 US Survey Feet

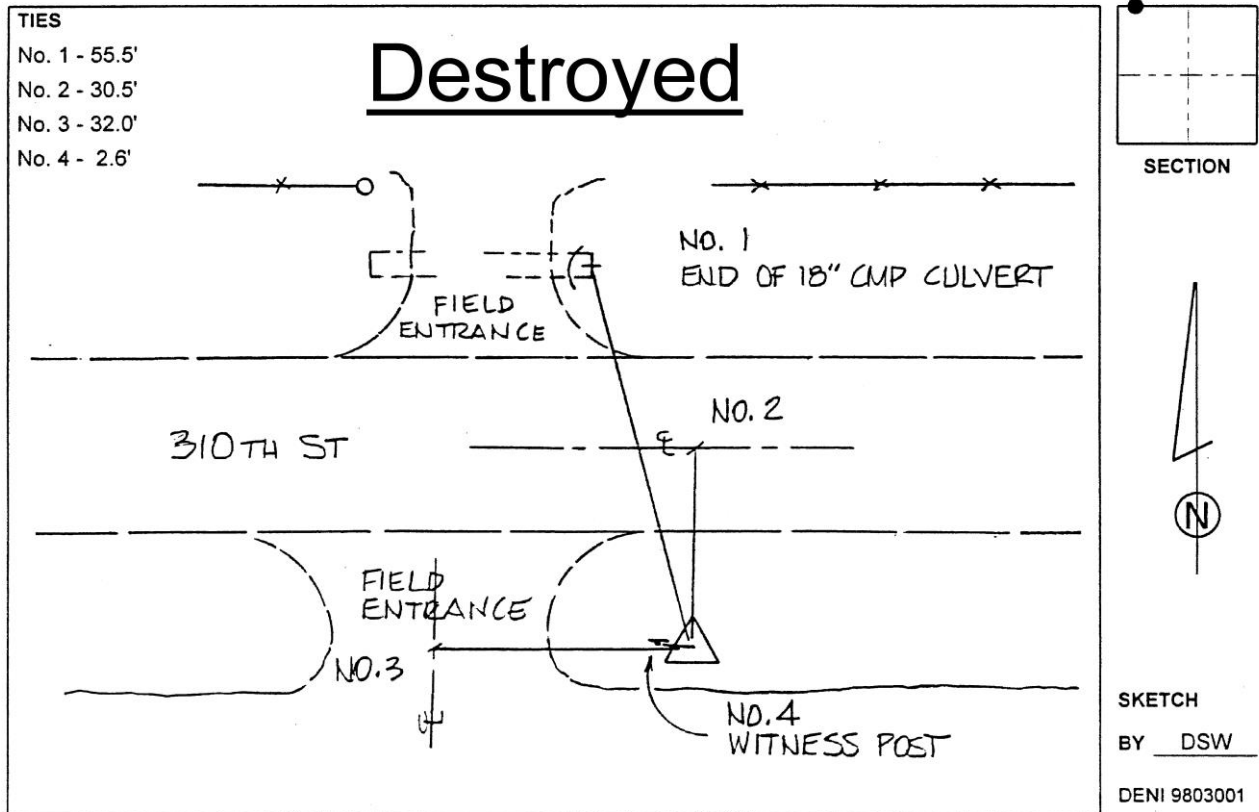
Point Name: **8009 (Destroyed)**

Designation: 862219 4 (Set by Deni Associates in 1998)

NAD 83(1996) Latitude: ~~N 42 15 09.60488~~ Longitude: ~~W 93 27 30.88160~~
 NAVD 88 Ortho Height: ~~1165.210~~sft Ellip. Ht: ~~1070.503~~sft

Iowa North Zone (1401) Northing: ~~3555125.030~~sft Easting: ~~4932464.280~~sft
 Mapping Angle: ~~0 01 41.06~~ Combination Scale Factor: ~~0.9999714400~~

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
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Point Name: **8010**

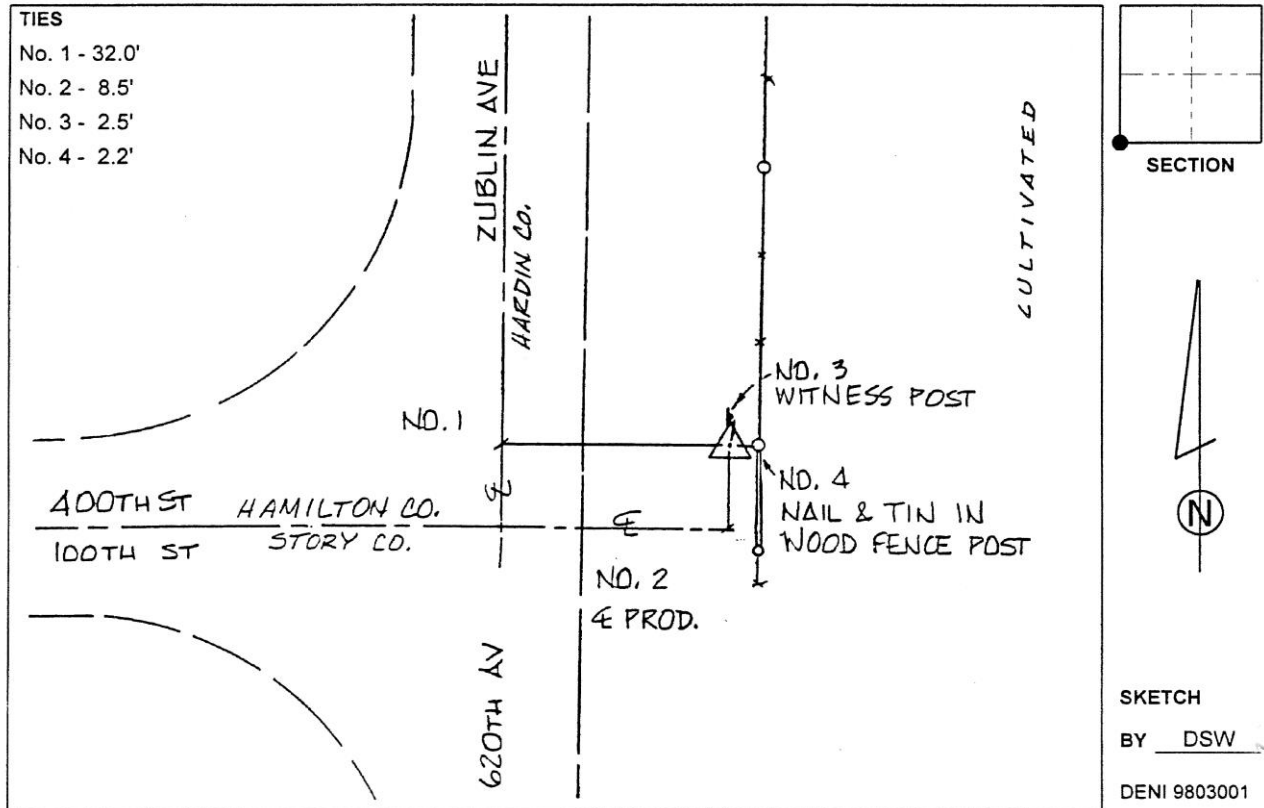
Designation: 862231 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°12'33.52002"** Longitude: **W93°27'46.60346"**
 NAVD 88 Ortho Height: **1115.000sft** Ellip. Ht: **1019.579sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3539324.430sft** Easting: **4931288.858sft**
 Mapping Angle: **0°01'30"** Combination Scale Factor: **0.9999284307**

IaRCS Zone 4 Northing: **8484910.171sft** Easting: **14871281.431sft**
 Mapping Angle: **0°55'35"** Combination Scale Factor: **1.0000121650**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8011**

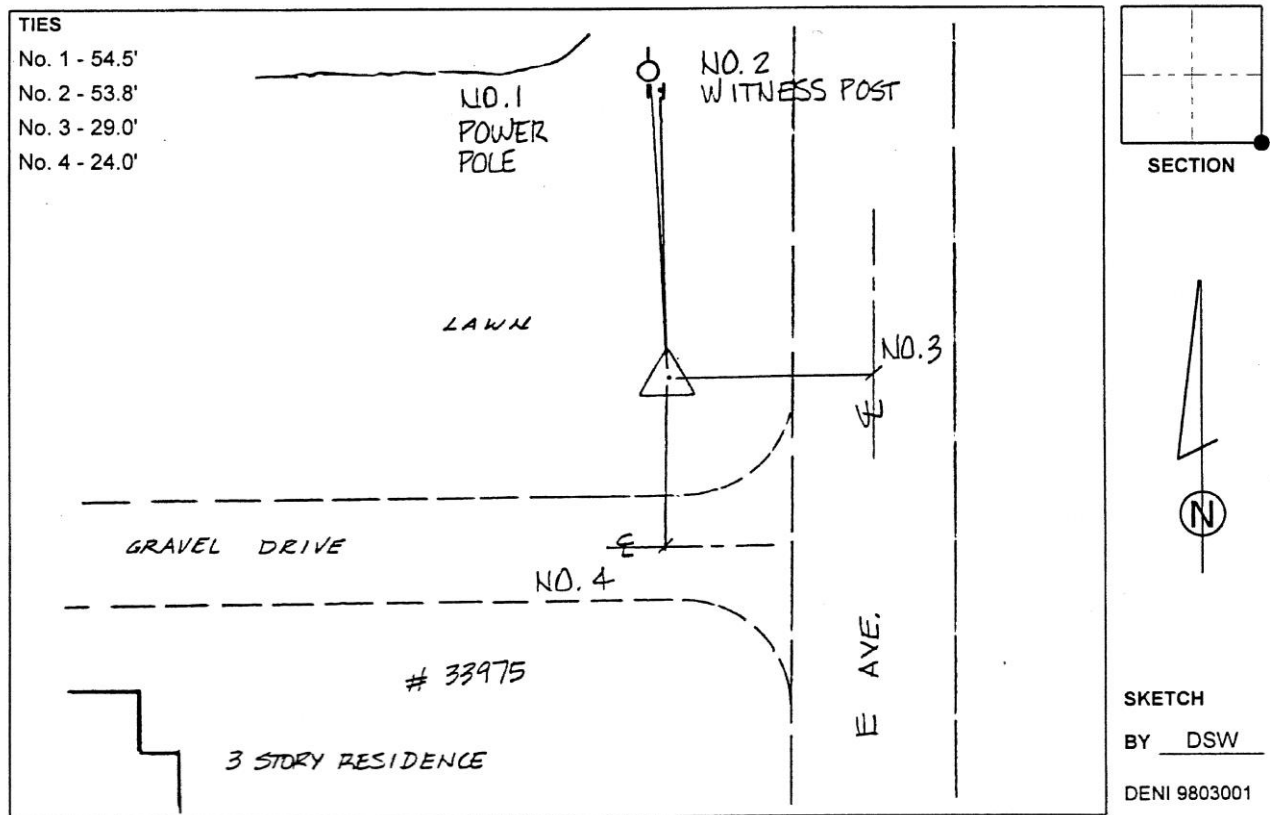
Designation: 862233 2 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°12'35.57085"** Longitude: **W93°24'18.56690"**
NAVD 88 Ortho Height: **1153.580sft** Ellip. Ht: **1056.746sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3539544.244sft** Easting: **4946944.570sft**
Mapping Angle: **0°03'51"** Combination Scale Factor: **0.9999265752**

IaRCS Zone 4 Northing: **8485376.245sft** Easting: **14886933.059sft**
Mapping Angle: **0°57'56"** Combination Scale Factor: **1.0000103324**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8012**

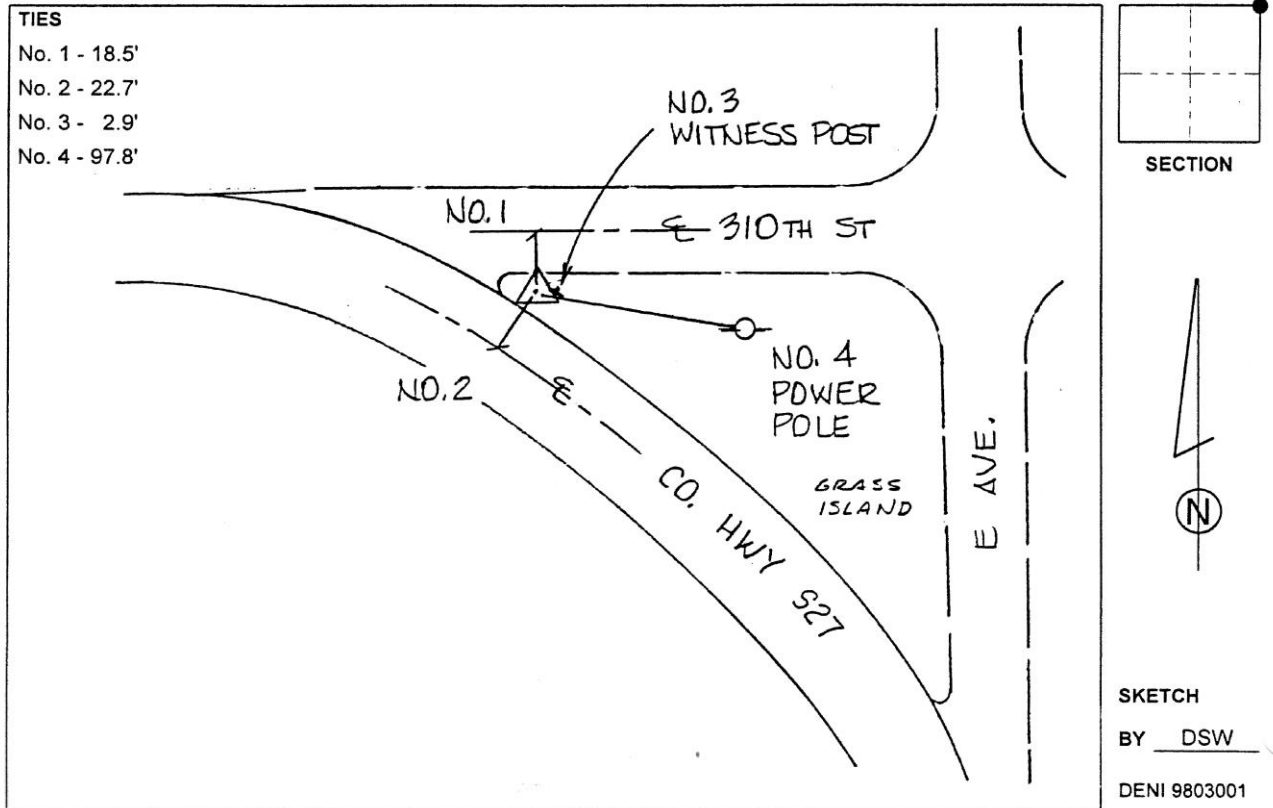
Designation: 862221 1 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°15'09.73069"** Longitude: **W93°24'21.55781"**
 NAVD 88 Ortho Height: **1202.250sft** Ellip. Ht: **1106.018sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3555149.167sft** Easting: **4946702.135sft**
 Mapping Angle: **0°03'49"** Combination Scale Factor: **0.9999185695**

IaRCS Zone 4 Northing: **8500976.745sft** Easting: **14886445.175sft**
 Mapping Angle: **0°57'54"** Combination Scale Factor: **1.0000040614**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8013**

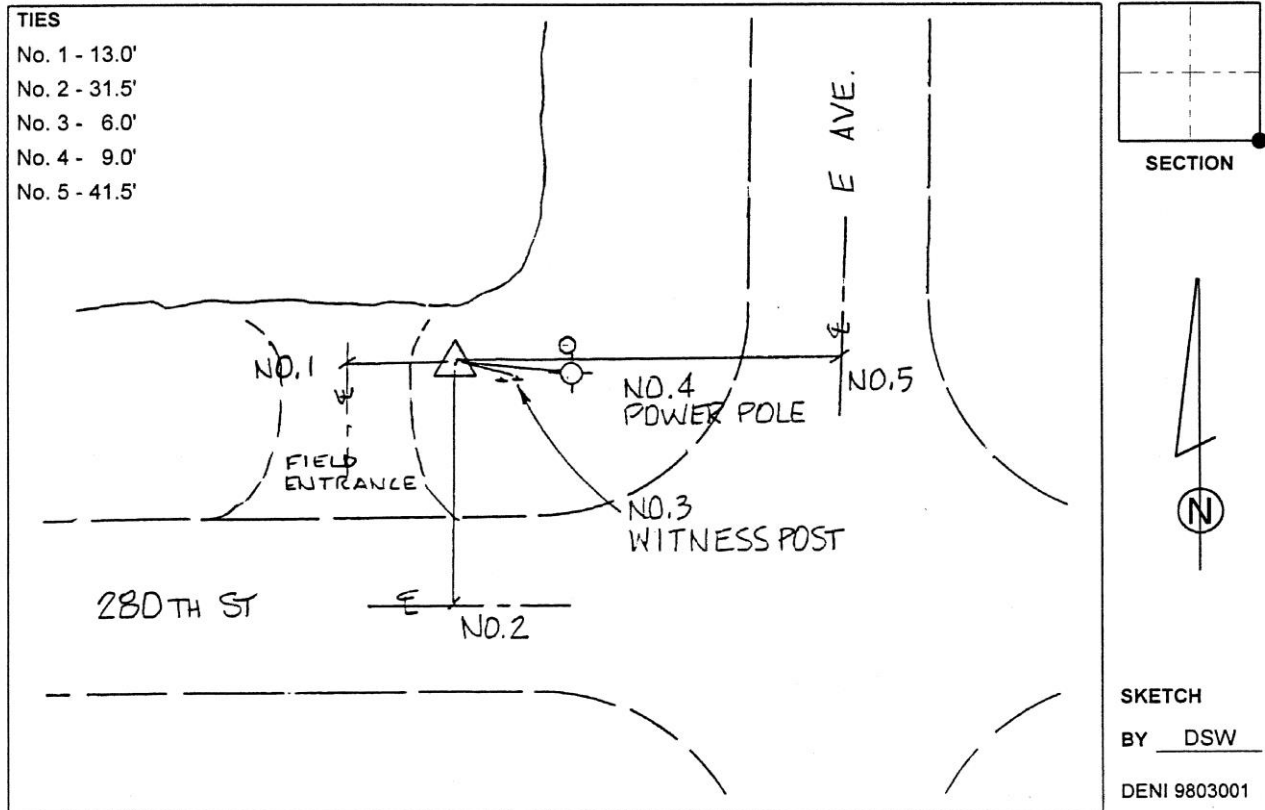
Designation: 872233 2 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°17'45.93159"** Longitude: **W93°24'18.49567"**
 NAVD 88 Ortho Height: **1189.250sft** Ellip. Ht: **1093.493sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3570961.242sft** Easting: **4946914.677sft**
 Mapping Angle: **0°03'51"** Combination Scale Factor: **0.9999140066**

IaRCS Zone 4 Northing: **8516791.573sft** Easting: **14886408.993sft**
 Mapping Angle: **0°57'56"** Combination Scale Factor: **1.0000012575**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8014**

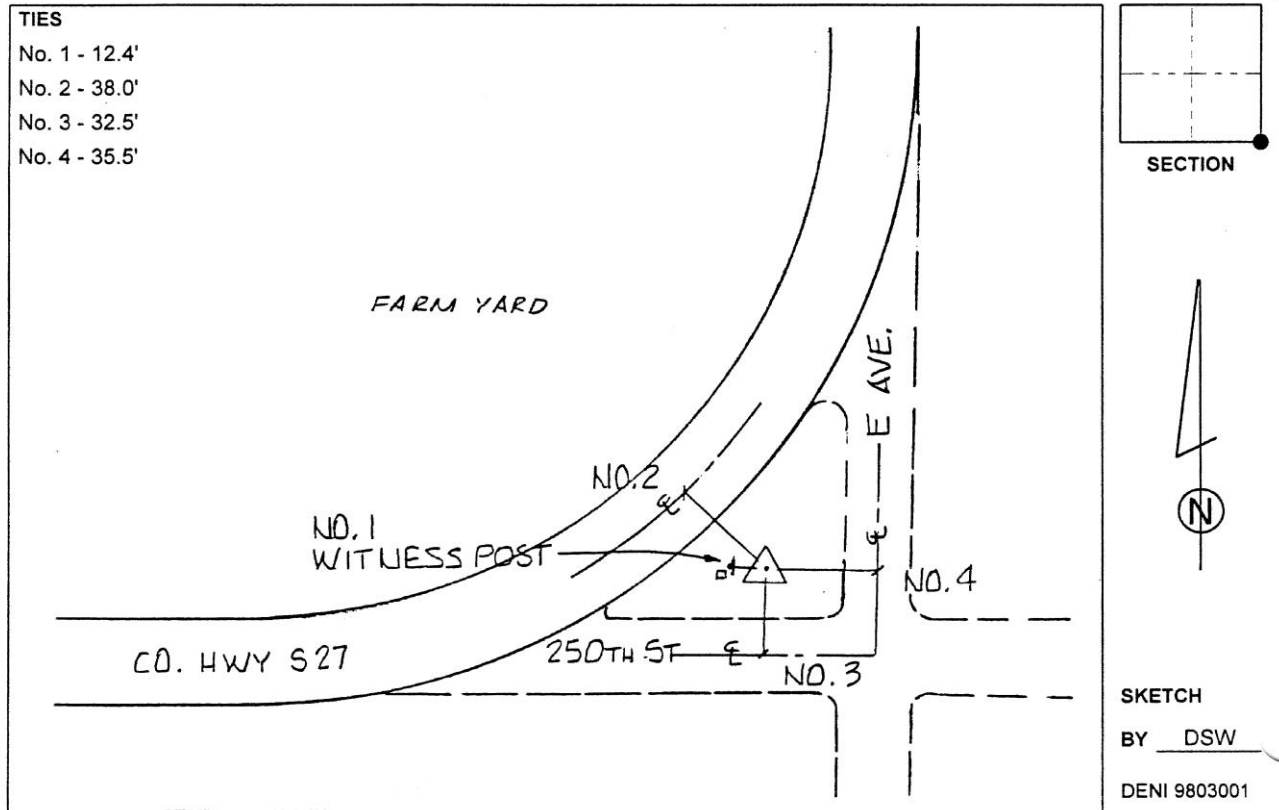
Designation: 872216 2 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°20'22.15306"** Longitude: **W93°24'19.39824"**
 NAVD 88 Ortho Height: **1151.590sft** Ellip. Ht: **1056.274sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3586775.111sft** Easting: **4946829.149sft**
 Mapping Angle: **0°03'51"** Combination Scale Factor: **0.9999111913**

IaRCS Zone 4 Northing: **8532603.534sft** Easting: **14886074.722sft**
 Mapping Angle: **0°57'55"** Combination Scale Factor: **1.0000002030**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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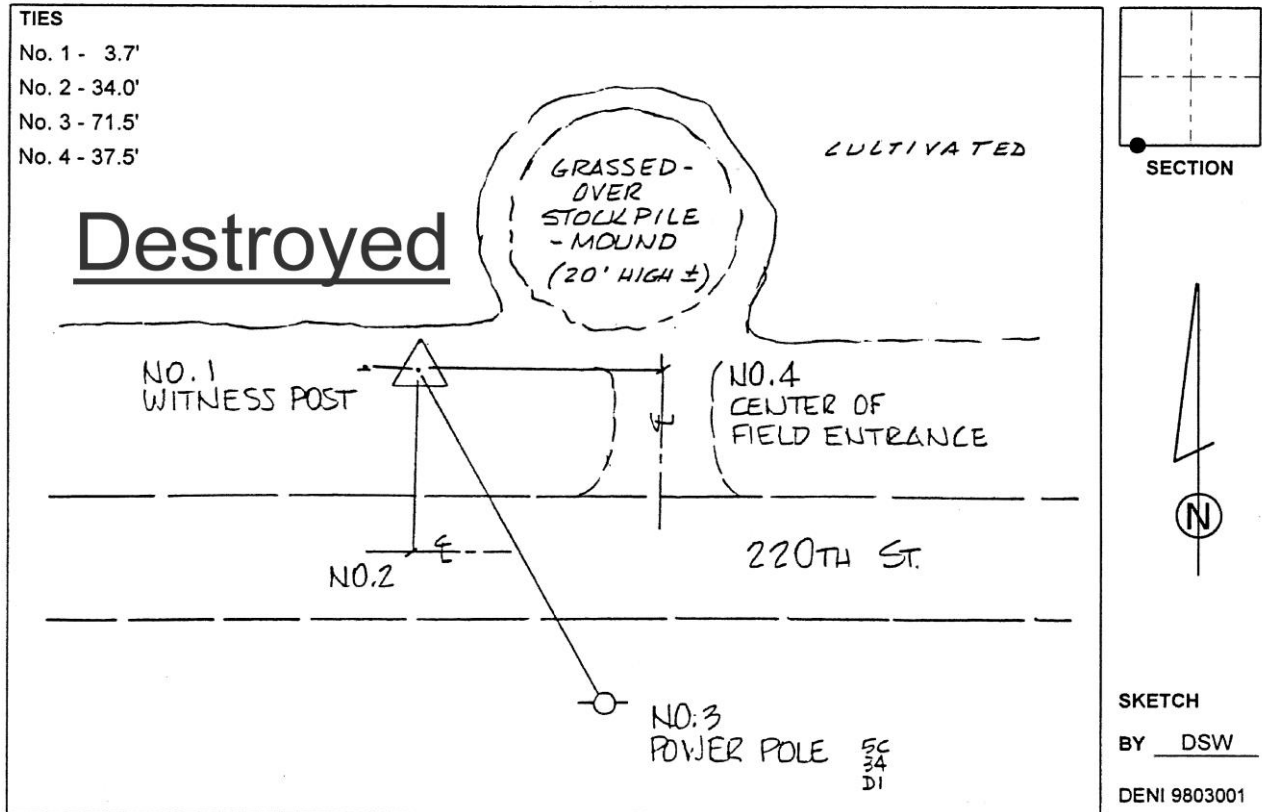
Point Name: **8015 (Destroyed)**

Designation: 882234 3 (Set by Deni Associates in 1998)

NAD 83(1996) Latitude: ~~N 42 23 01.21705~~ Longitude: ~~W 93 24 05.63115~~
 NAVD 88 Ortho Height: ~~1135.050~~sft Ellip. Ht: ~~1040.286~~sft

Iowa North Zone (1401) Northing: ~~3602878.030~~sft Easting: ~~4947844.310~~sft
 Mapping Angle: ~~0 04 0.17~~ Combination Scale Factor: ~~0.99995759~~

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8016**

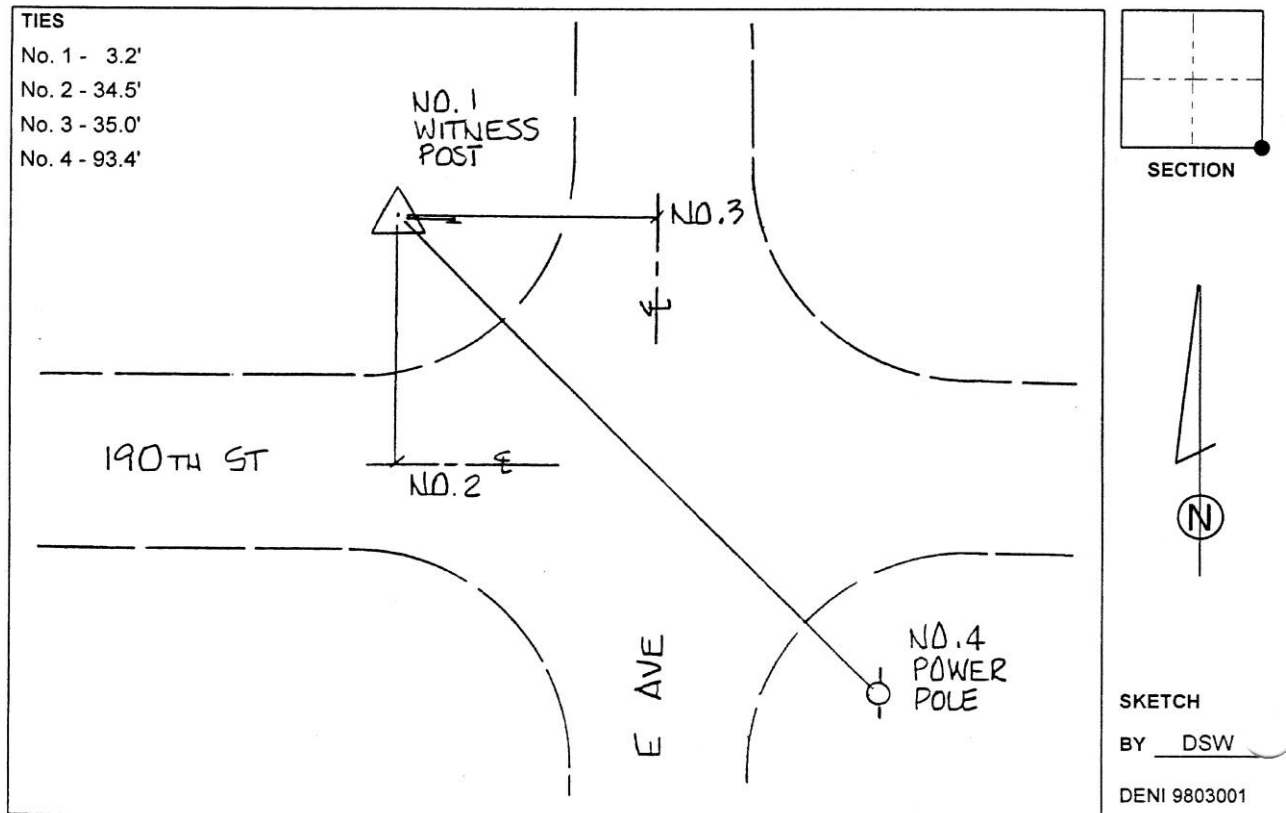
Designation: 882216 2 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°25'37.12357"** Longitude: **W93°24'18.11527"**
 NAVD 88 Ortho Height: **1169.720sft** Ellip. Ht: **1075.297sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3618659.135sft** Easting: **4946889.683sft**
 Mapping Angle: **0°03'52"** Combination Scale Factor: **0.9999027483**

IaRCS Zone 4 Northing: **8564487.461sft** Easting: **14885633.731sft**
 Mapping Angle: **0°57'56"** Combination Scale Factor: **0.9999953134**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8017**

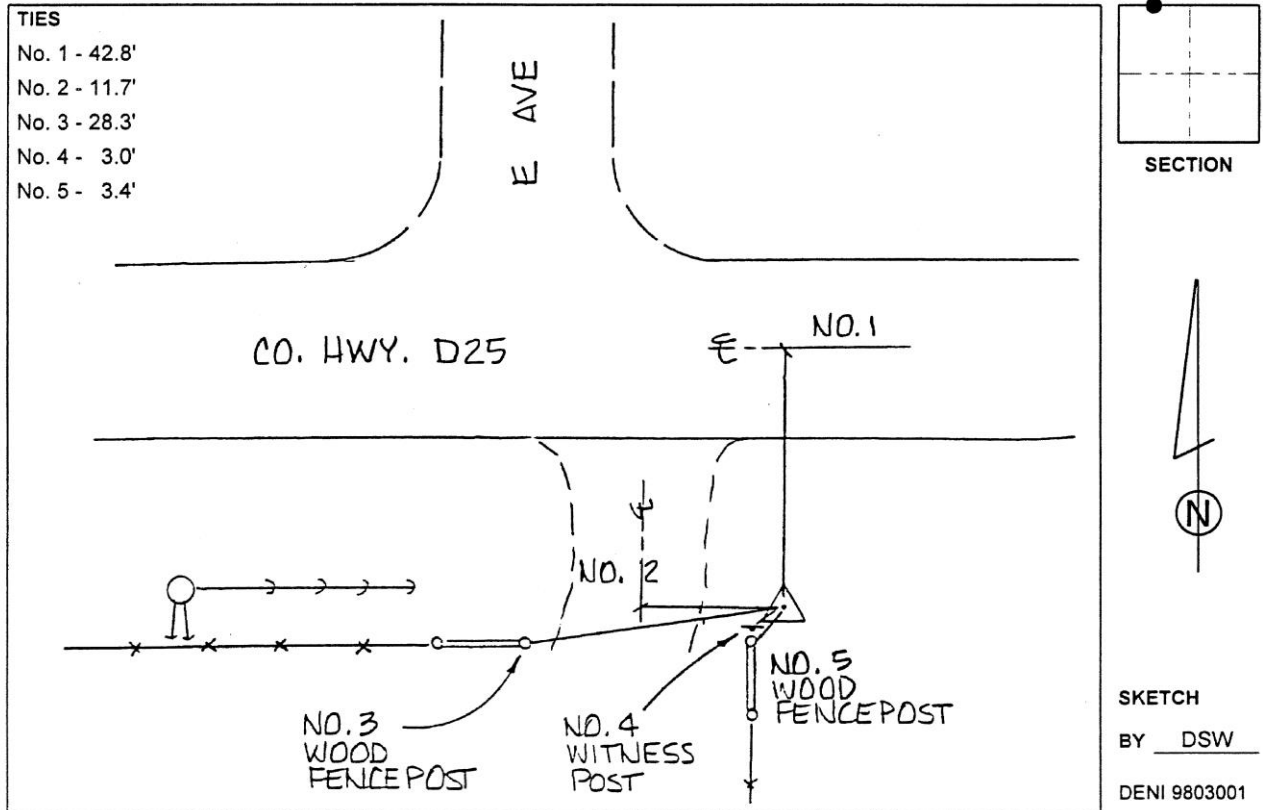
Designation: 882203 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°28'13.79083"** Longitude: **W93°24'01.48072"**
 NAVD 88 Ortho Height: **1155.580sft** Ellip. Ht: **1061.557sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3634519.825sft** Easting: **4948118.509sft**
 Mapping Angle: **0°04'03"** Combination Scale Factor: **0.9999005193**

IaRCS Zone 4 Northing: **8580367.000sft** Easting: **14886613.039sft**
 Mapping Angle: **0°58'07"** Combination Scale Factor: **0.9999948539**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8018**

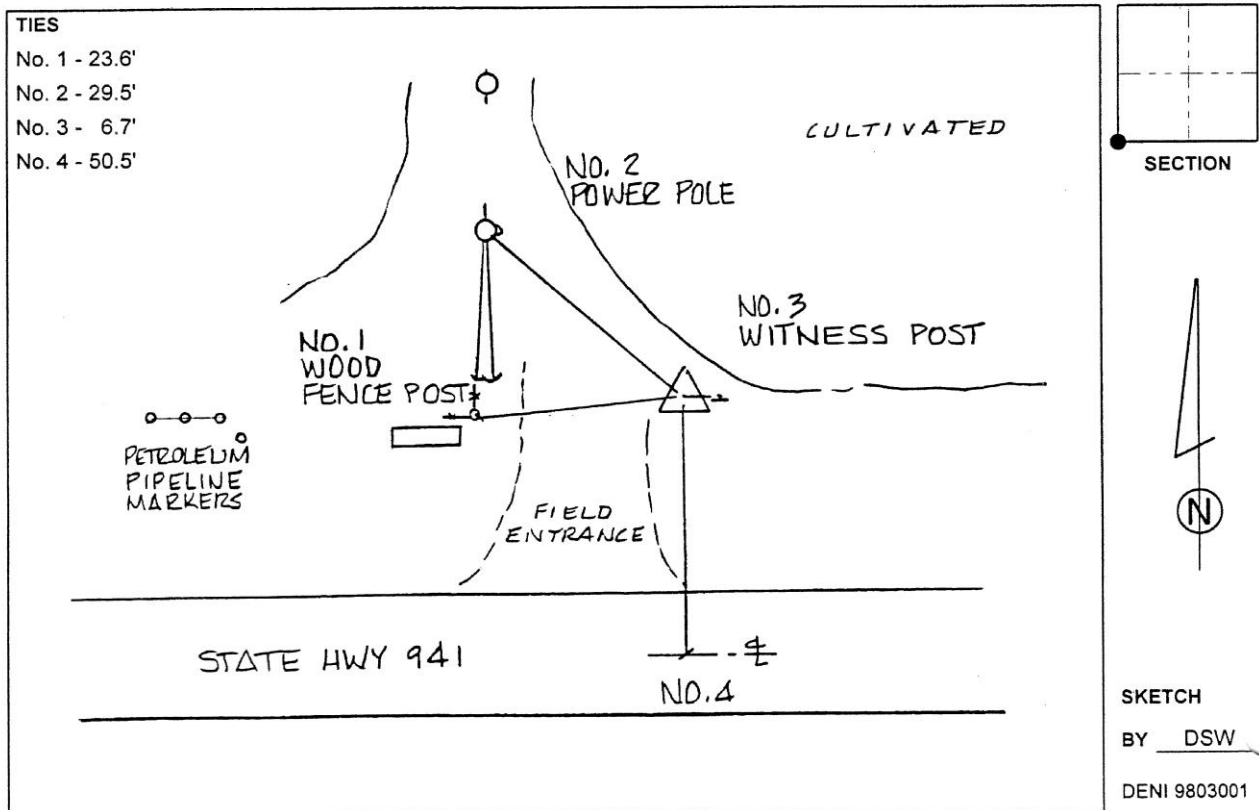
Designation: 892215 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°30'51.92063"** Longitude: **W93°26'25.06901"**
 NAVD 88 Ortho Height: **1154.670sft** Ellip. Ht: **1062.436sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3650517.080sft** Easting: **4937346.270sft**
 Mapping Angle: **0°02'26"** Combination Scale Factor: **0.9998981456**

IaRCS Zone 4 Northing: **8596194.351sft** Easting: **14875589.468sft**
 Mapping Angle: **0°56'30"** Combination Scale Factor: **0.9999942674**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
Iowa State Plane North Zone (1401)
Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
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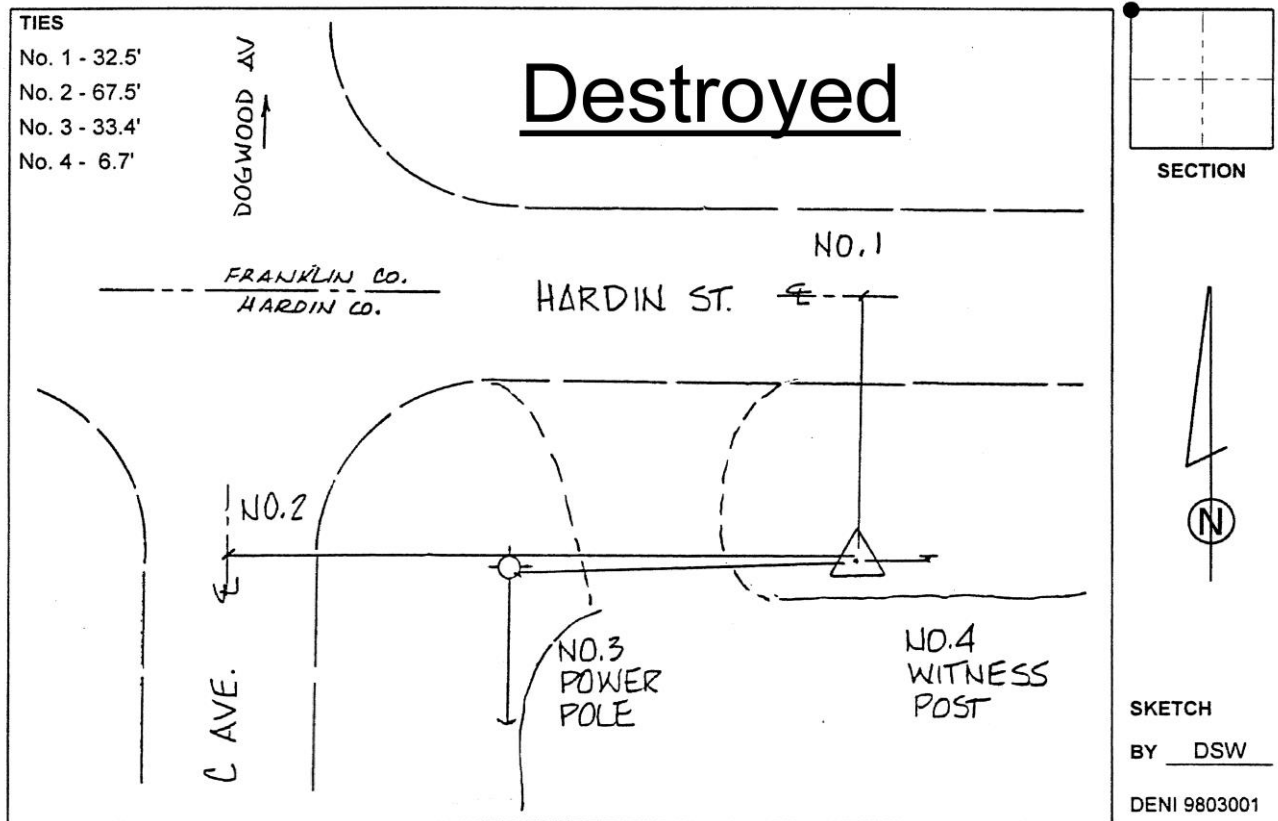
Point Name: **8019 (Destroyed)**

Designation: 892203 4 (Set by Deni Associates in 1998)

NAD 83(1996) Latitude: ~~N 42 33 26.83294~~ Longitude: ~~W 93 26 21.53825~~
NAVD 88 Ortho Height: ~~1147.330~~sft Ellip. Ht: ~~1055.805~~sft

Iowa North Zone (1401) Northing: ~~3666199.040~~sft Easting: ~~4937599.430~~sft
Mapping Angle: ~~0 02 28.06~~ Combination Scale Factor: ~~0.9999472100~~

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8020**

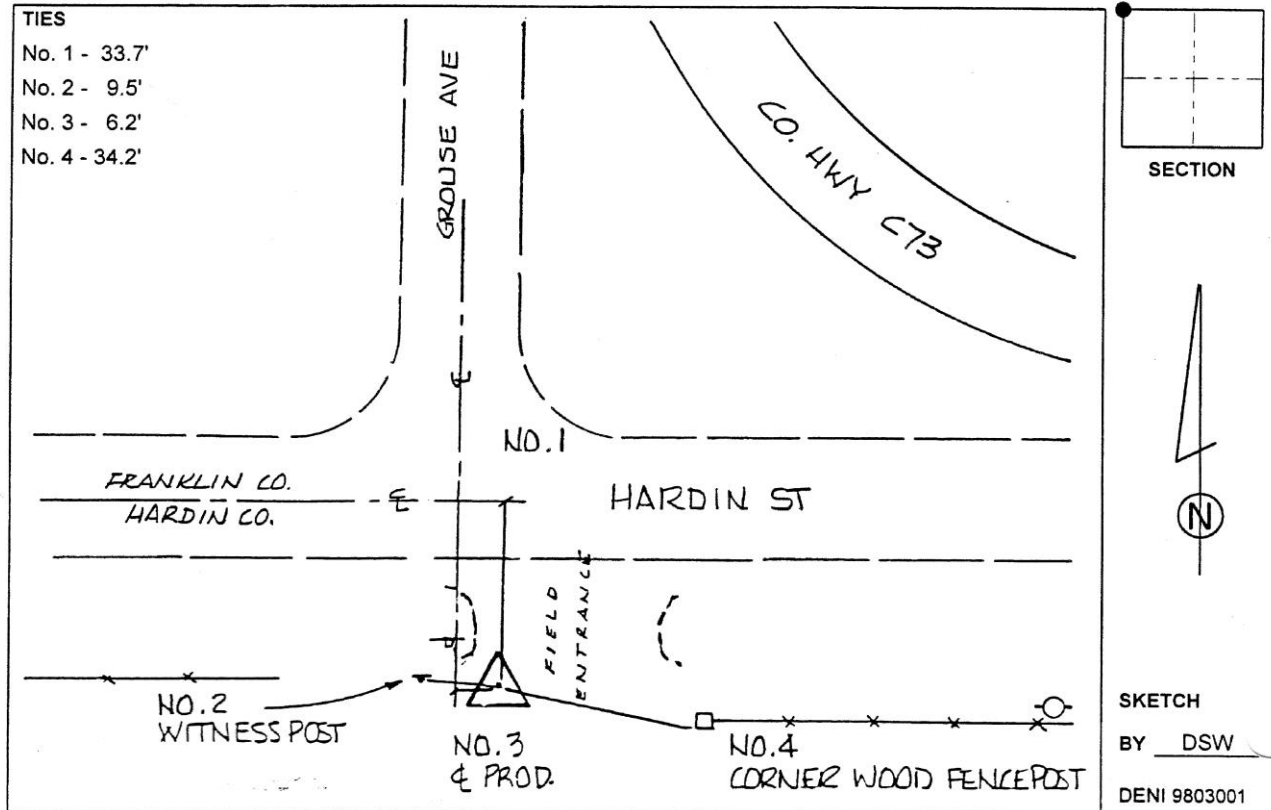
Designation: 892106 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°33'26.80334"** Longitude: **W93°22'51.17234"**
 NAVD 88 Ortho Height: **1130.178sft** Ellip. Ht: **1036.770sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3666212.790sft** Easting: **4953342.980sft**
 Mapping Angle: **0°04'51"** Combination Scale Factor: **0.9998976547**

IaRCS Zone 4 Northing: **8612141.268sft** Easting: **14891338.859sft**
 Mapping Angle: **0°58'55"** Combination Scale Factor: **0.999995285**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8021**

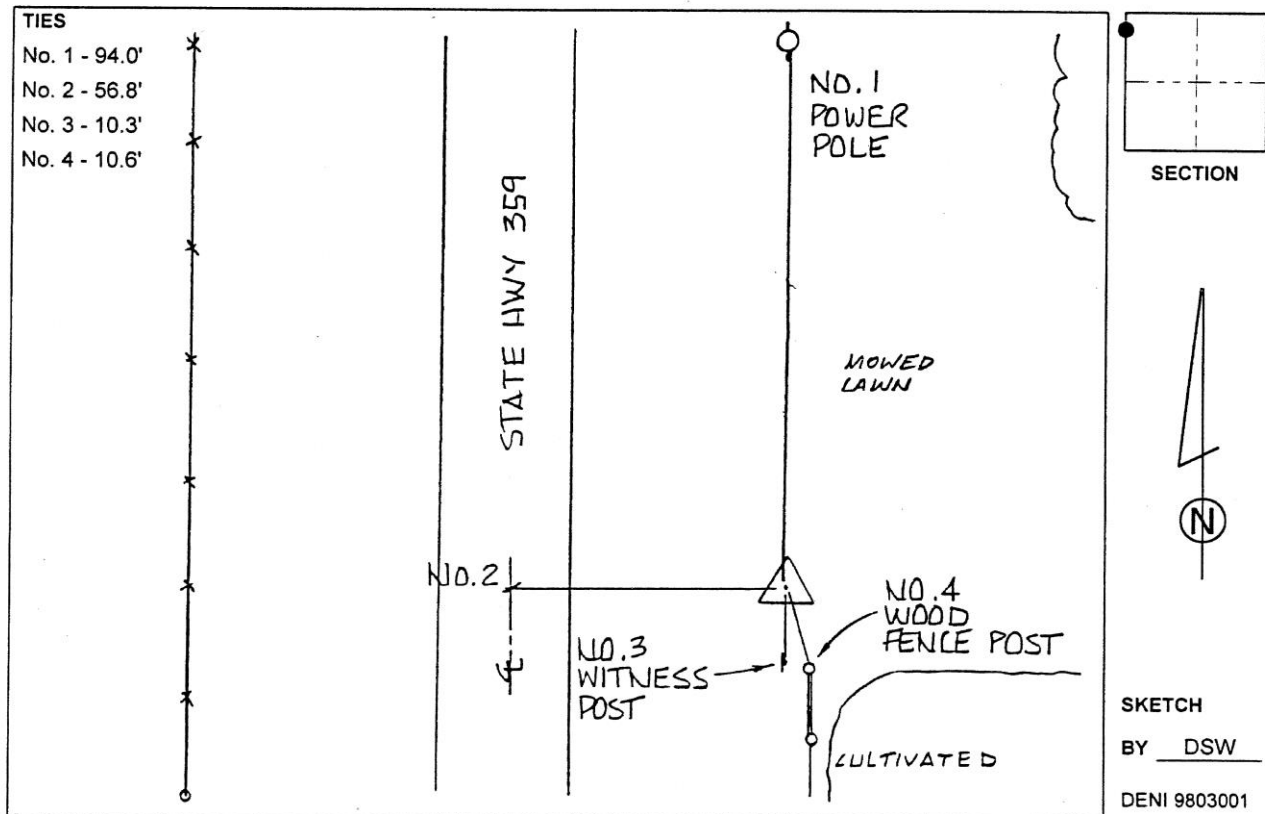
Designation: 892119 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°30'38.16275"** Longitude: **W93°22'50.76784"**
 NAVD 88 Ortho Height: **1162.769sft** Ellip. Ht: **1068.681sft** Geoid12B

Iowa North Zone (1401) Northing: **3649141.359sft** Easting: **4953397.329sft**
 Mapping Angle: **0°04'51"** Combination Scale Factor: **0.9998980268**

IaRCS Zone 4 Northing: **8595071.149sft** Easting: **14891661.722sft**
 Mapping Angle: **0°58'55"** Combination Scale Factor: **0.9999939931**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8022**

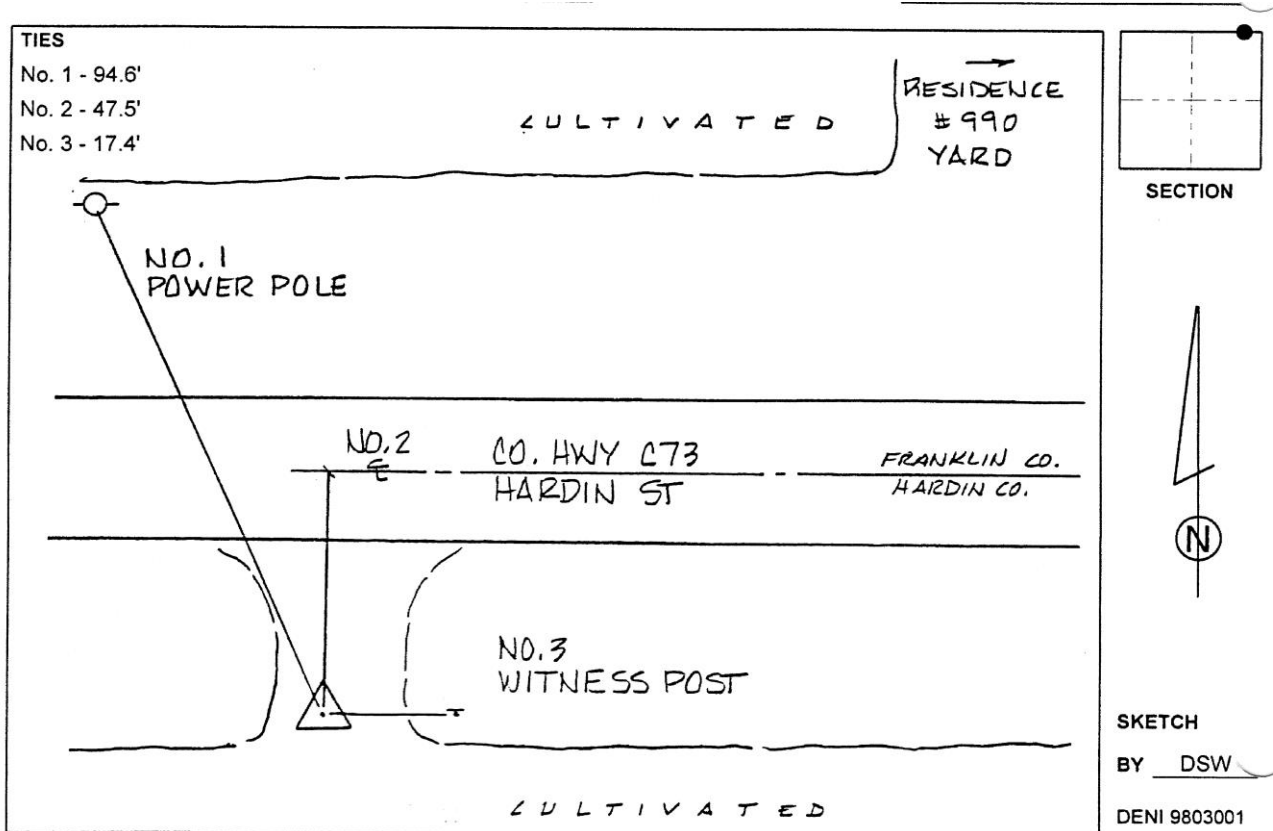
Designation: 892104 1 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°33'26.02220"** Longitude: **W93°19'26.91236"**
 NAVD 88 Ortho Height: **1166.069sft** Ellip. Ht: **1070.819sft** Geoid12B

Iowa North Zone (1401) Northing: **3666160.384sft** Easting: **4968629.713sft**
 Mapping Angle: **0°07'09"** Combination Scale Factor: **0.9998960346**

IaRCS Zone 4 Northing: **8612329.295sft** Easting: **14906626.022sft**
 Mapping Angle: **1°01'13"** Combination Scale Factor: **0.9999938994**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8023**

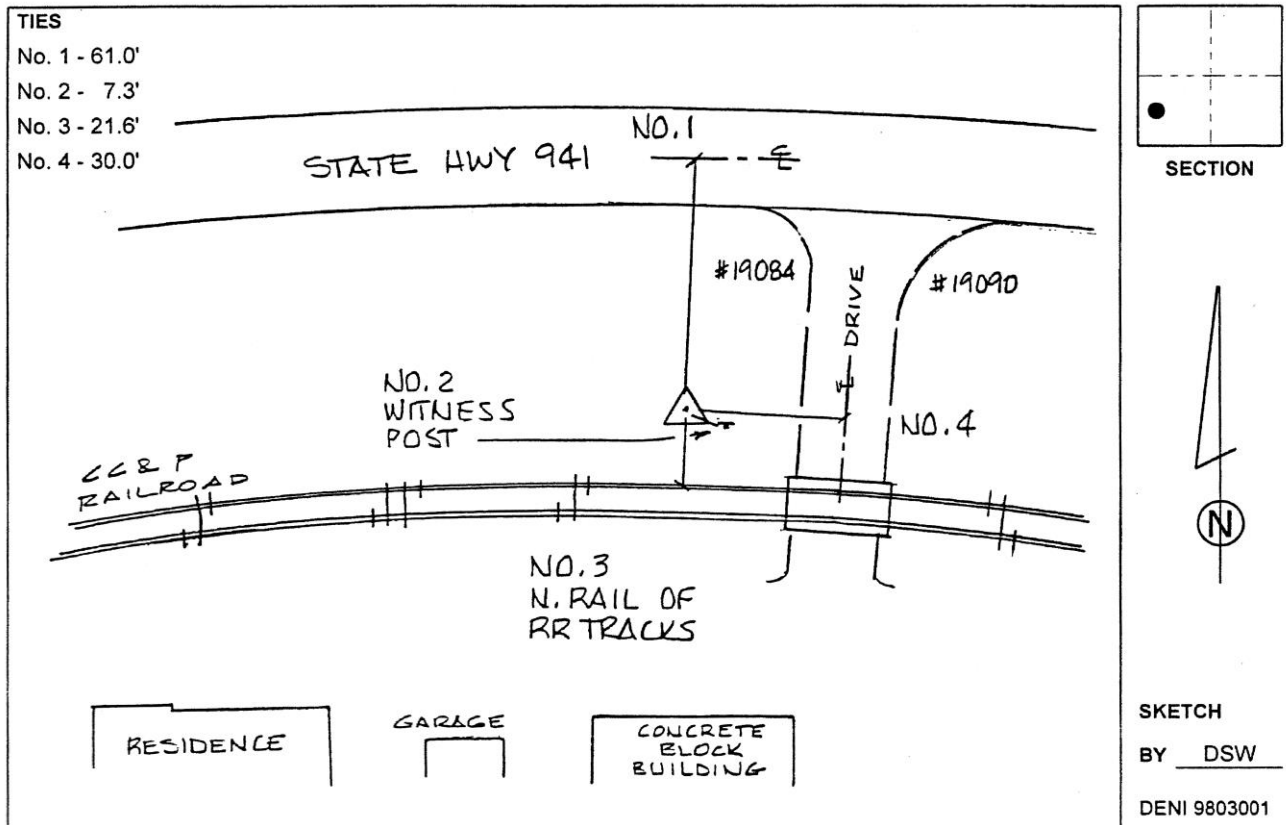
Designation: 892115 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°31'02.63193"** Longitude: **W93°19'10.76799"**
 NAVD 88 Ortho Height: **1101.560sft** Ellip. Ht: **1005.560sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3651647.557sft** Easting: **4969868.906sft**
 Mapping Angle: **0°07'20"** Combination Scale Factor: **0.9999007272**

IaRCS Zone 4 Northing: **8597836.343sft** Easting: **14908093.428sft**
 Mapping Angle: **1°01'24"** Combination Scale Factor: **0.9999969704**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8024**

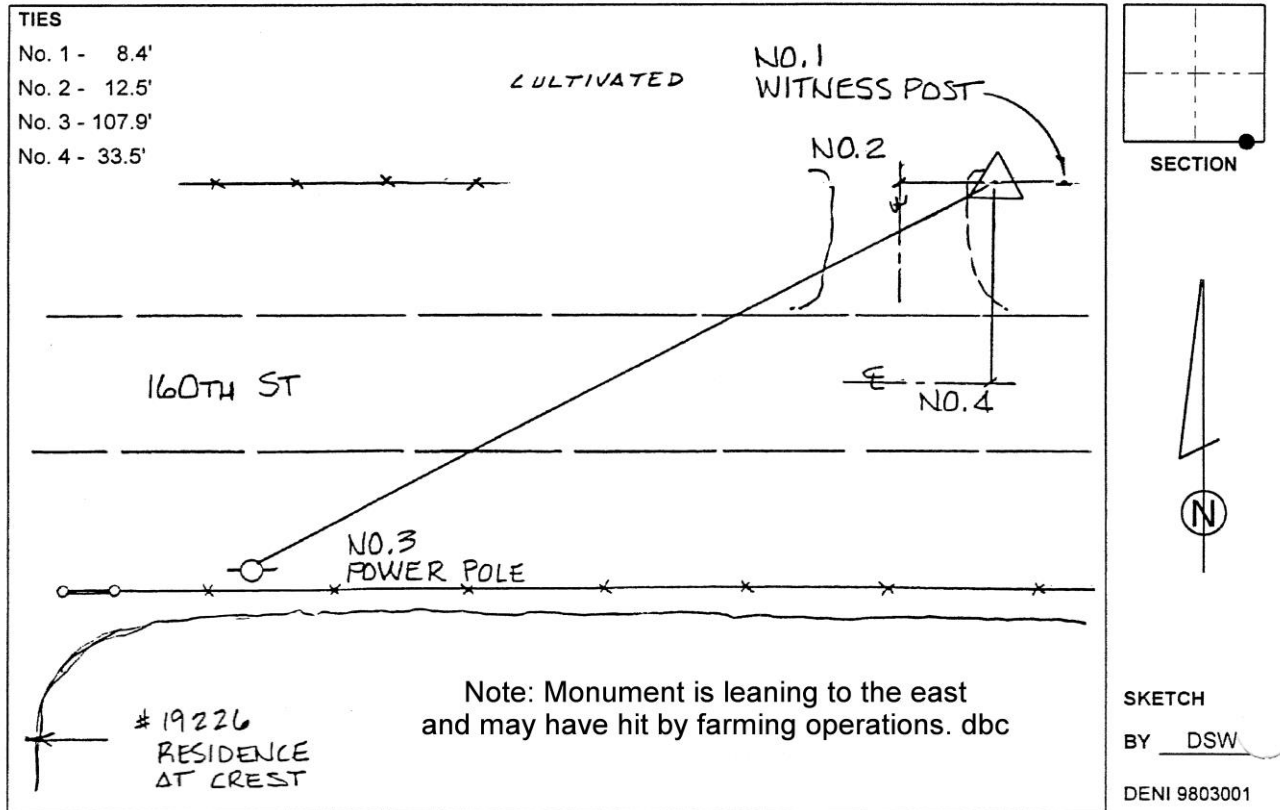
Designation: 892133 2 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°28'14.02229"** Longitude: **W93°19'26.73681"**
 NAVD 88 Ortho Height: **1181.728sft** Ellip. Ht: **1085.286sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3634576.804sft** Easting: **4968708.569sft**
 Mapping Angle: **0°07'09"** Combination Scale Factor: **0.9998993813**

IaRCS Zone 4 Northing: **8580747.826sft** Easting: **14907201.599sft**
 Mapping Angle: **1°01'13"** Combination Scale Factor: **0.9999937184**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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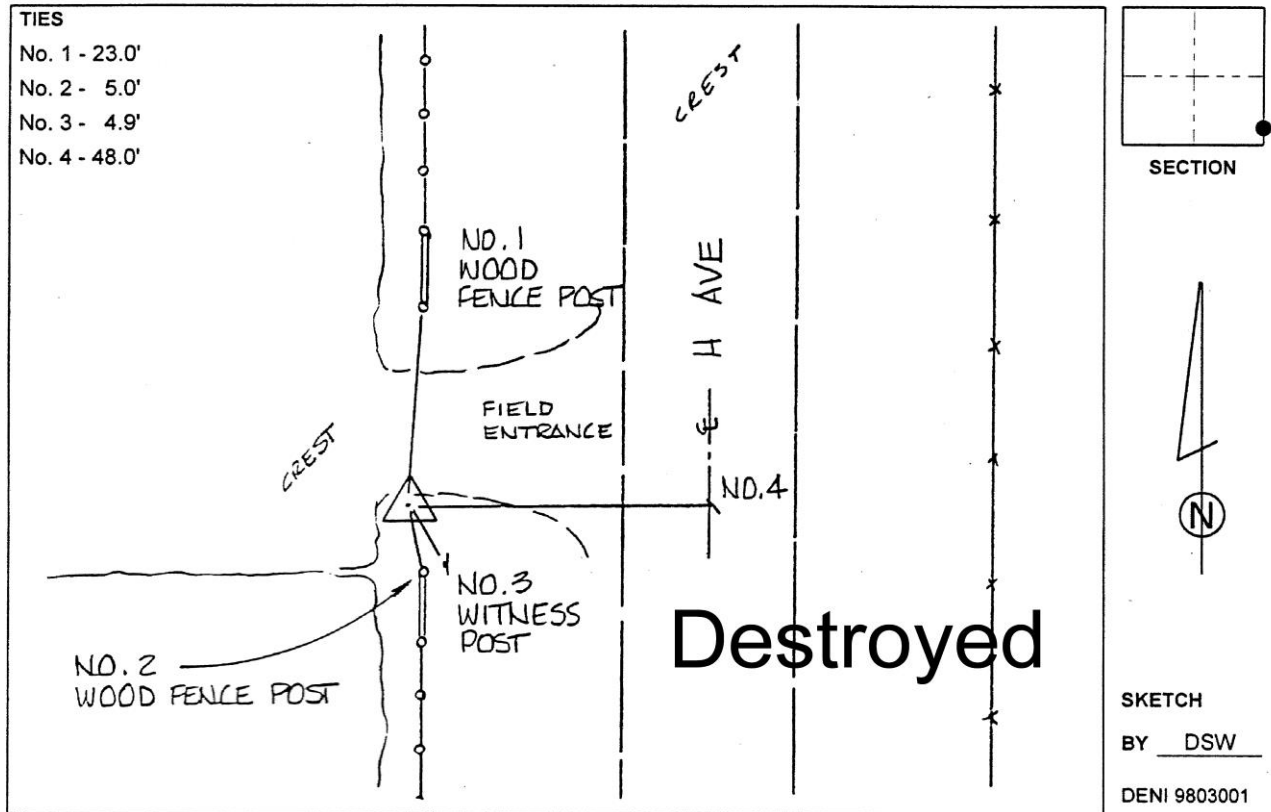
Point Name: **8025 (Destroyed)**

Designation: 882213 2 (Set by Deni Associates in 1998)

NAD 83(1996) Latitude: ~~N 42 25 40.83320~~ Longitude: ~~W 93 20 48.69996~~
 NAVD 88 Ortho Height: ~~1137.950~~sft Ellip. Ht: ~~1041.960~~sft

Iowa North Zone (1401) Northing: ~~3619057.700~~sft Easting: ~~4962594.110~~sft
 Mapping Angle: ~~0 06 13.64~~ Combination Scale Factor: ~~0.9999540700~~

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
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Point Name: **8026**

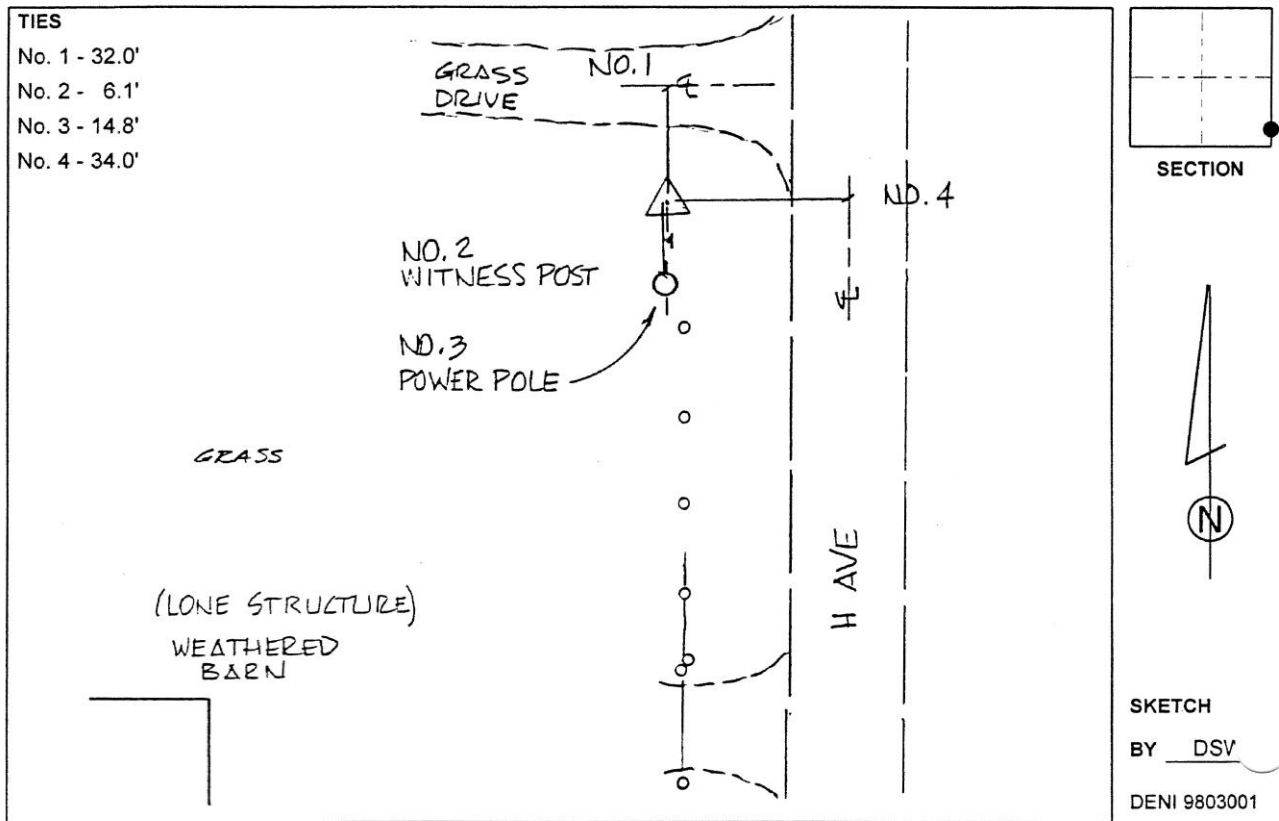
Designation: 882236 2 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°23'04.58374"** Longitude: **W93°20'48.96711"**
 NAVD 88 Ortho Height: **1176.370sft** Ellip. Ht: **1079.757sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3603240.788sft** Easting: **4962602.716sft**
 Mapping Angle: **0°06'13"** Combination Scale Factor: **0.9999058950**

IaRCS Zone 4 Northing: **8549316.754sft** Easting: **14901588.773sft**
 Mapping Angle: **1°00'17"** Combination Scale Factor: **0.9999967385**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8027**

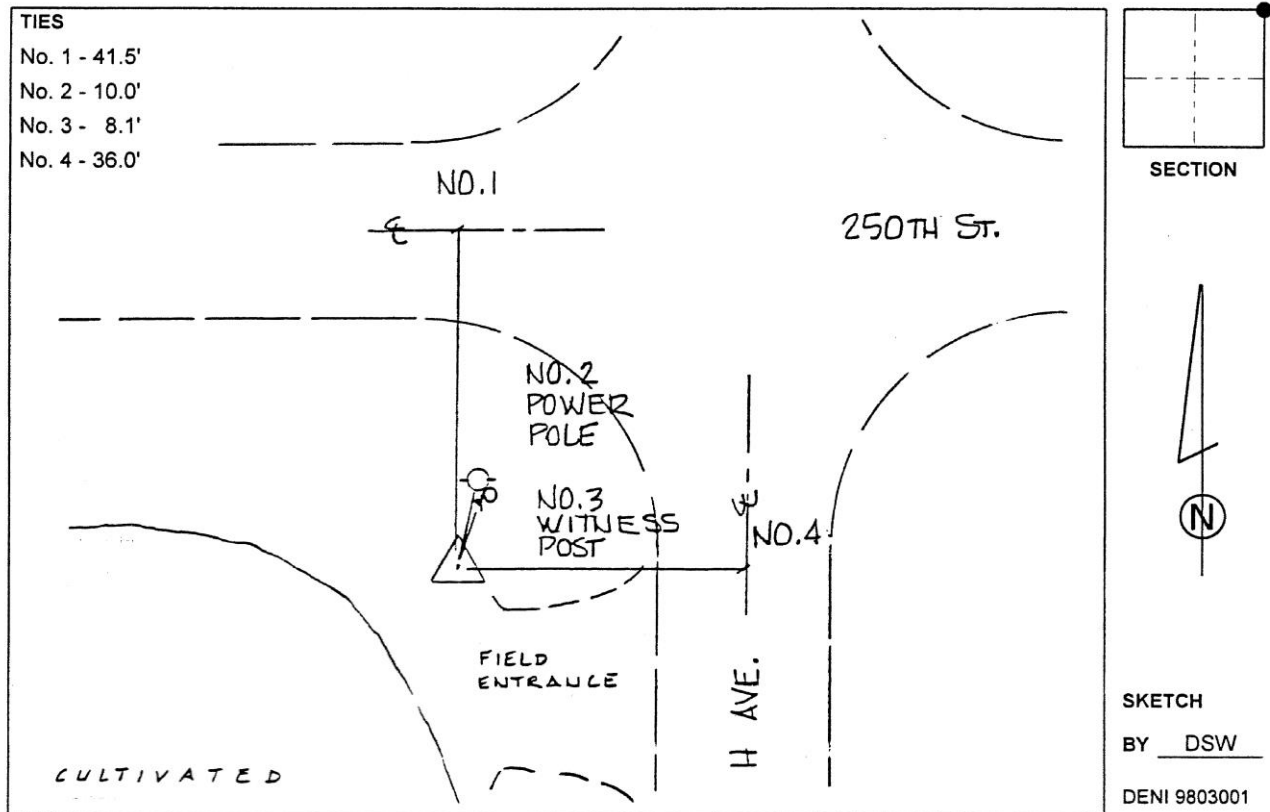
Designation: 872224 1 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°20'21.53690"** Longitude: **W93°20'48.52461"**
 NAVD 88 Ortho Height: **1122.690sft** Ellip. Ht: **1025.646sft** Geoid12B

Iowa North Zone (1401) Northing: **3586735.948sft** Easting: **4962665.831sft**
 Mapping Angle: **0°06'14"** Combination Scale Factor: **0.9999126723**

IaRCS Zone 4 Northing: **8532813.463sft** Easting: **14901911.471sft**
 Mapping Angle: **1°00'18"** Combination Scale Factor: **1.0000016772**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
 US Survey Feet
9/30/18

Point Name: **8028**

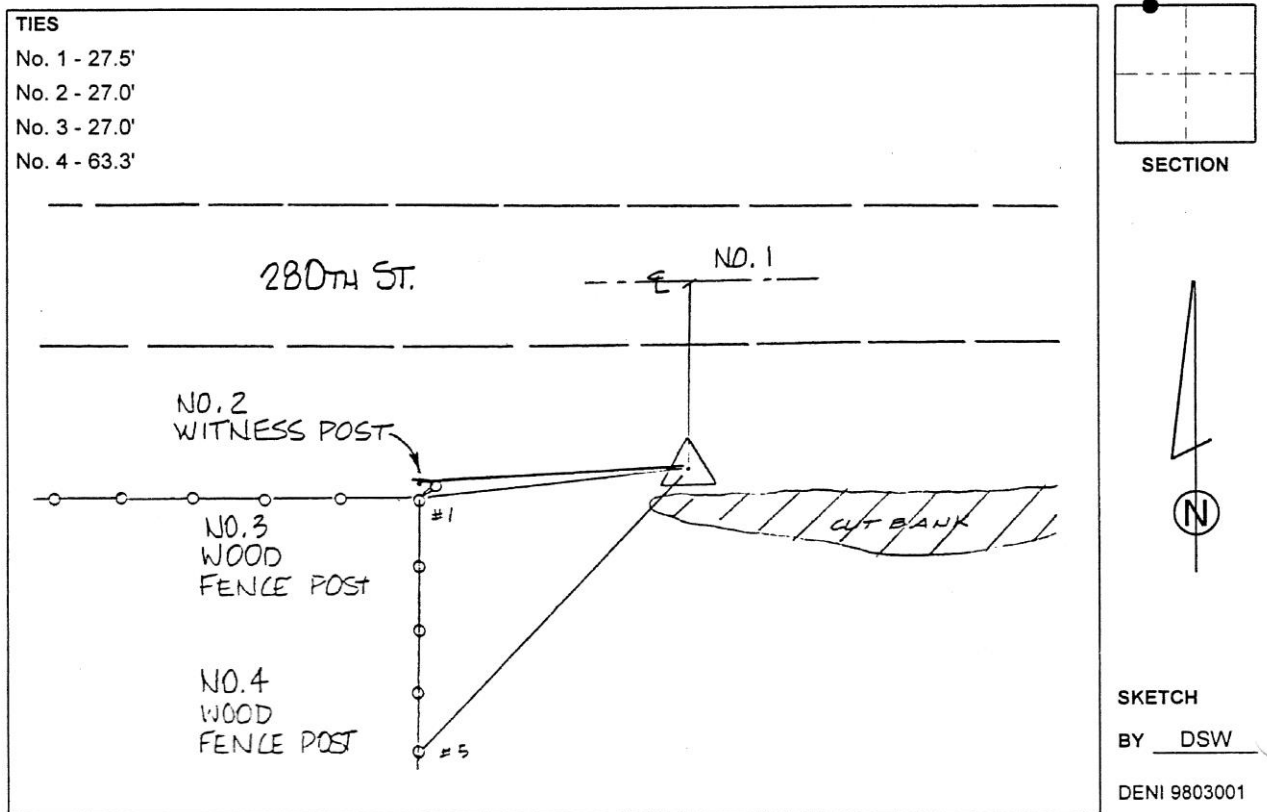
Designation: 862106 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°17'45.21928"** Longitude: **W93°20'30.56476"**
 NAVD 88 Ortho Height: **1087.480sft** Ellip. Ht: **989.880sft** Geoid12B

Iowa North Zone (1401) Northing: **3570914.773sft** Easting: **4964044.222sft**
 Mapping Angle: **0°06'26"** Combination Scale Factor: **0.9999189813**

IaRCS Zone 4 Northing: **8517014.530sft** Easting: **14903538.644sft**
 Mapping Angle: **1°00'30"** Combination Scale Factor: **1.0000062247**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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 Iowa State Plane North Zone (1401)
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9/30/18

Point Name: **8029**

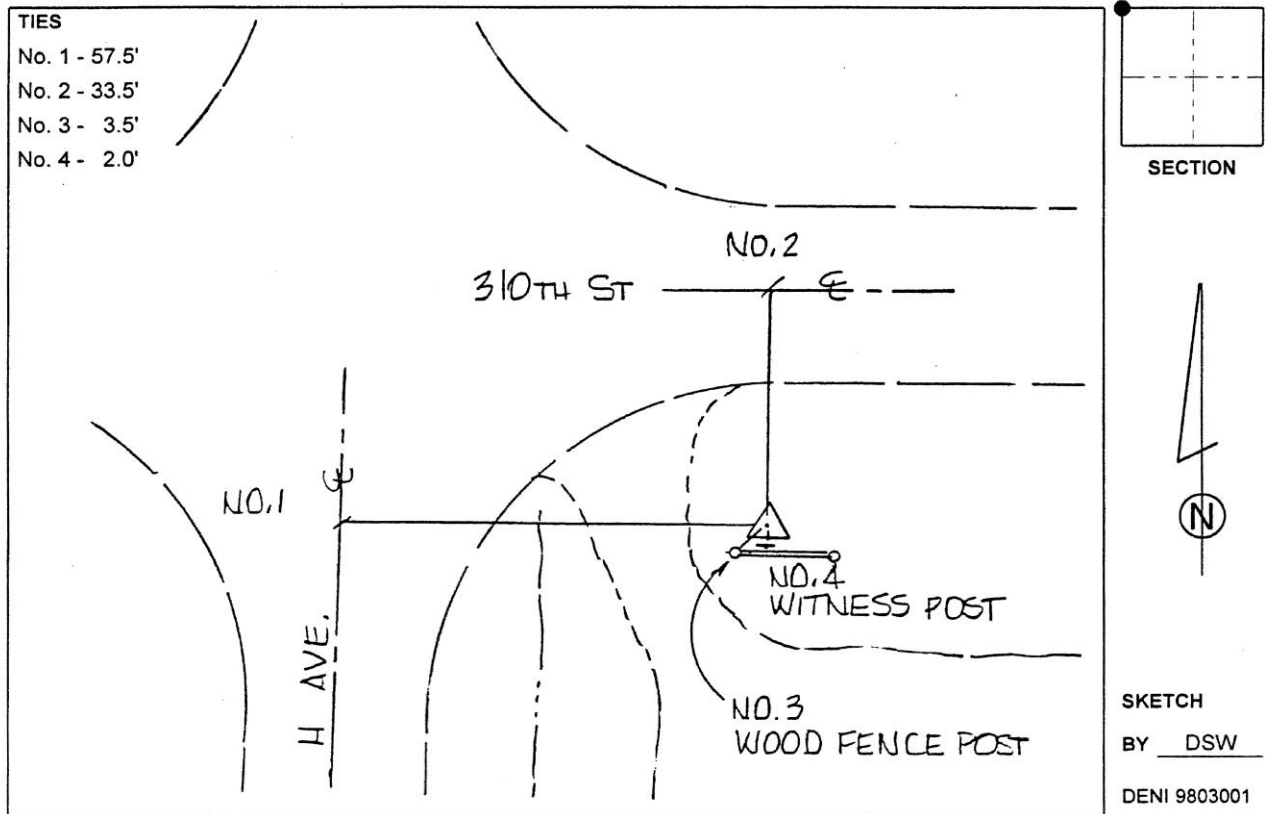
Designation: 862119 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°15'09.02987"** Longitude: **W93°20'47.18167"**
 NAVD 88 Ortho Height: **1103.103sft** Ellip. Ht: **1005.224sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3555101.831sft** Easting: **4962824.148sft**
 Mapping Angle: **0°06'15"** Combination Scale Factor: **0.9999234117**

IaRCS Zone 4 Northing: **8501182.988sft** Easting: **14902567.317sft**
 Mapping Angle: **1°00'19"** Combination Scale Factor: **1.0000088961**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8030**

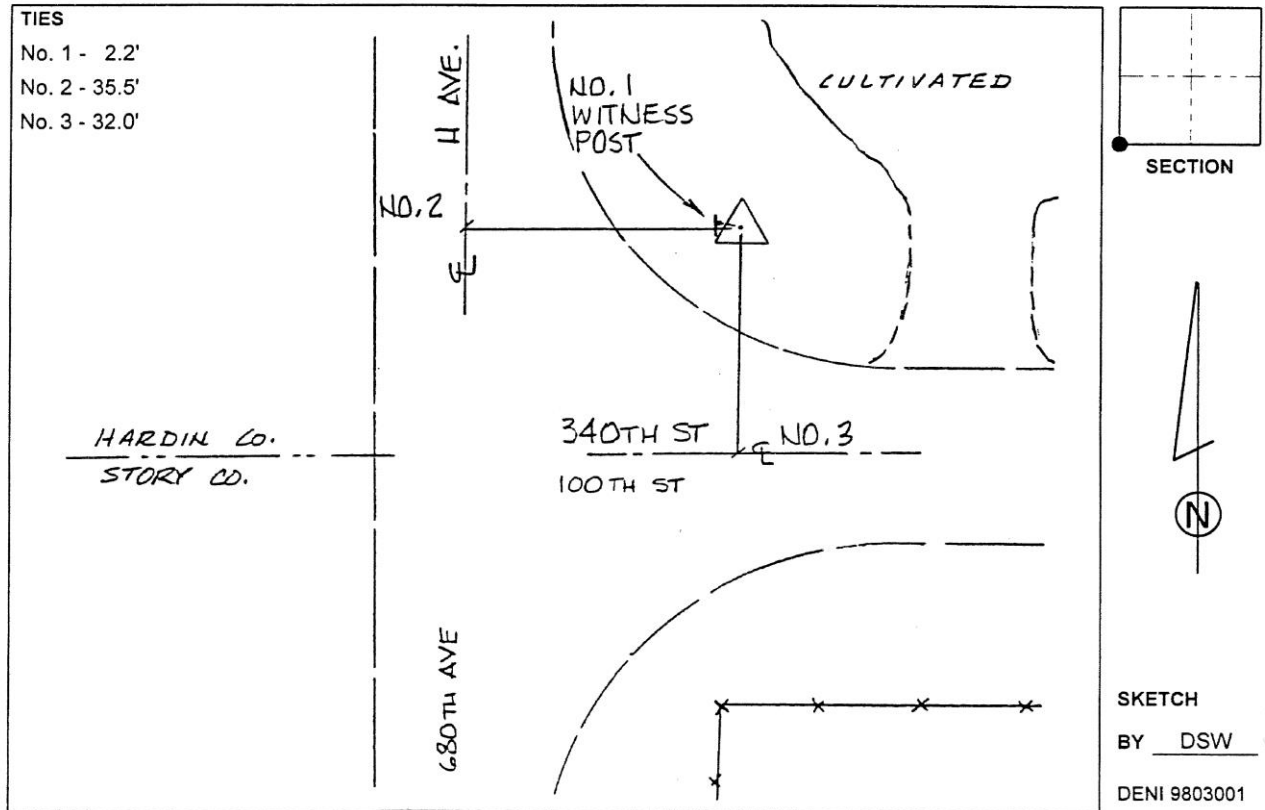
Designation: 862131 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°12'33.53024"** Longitude: **W93°20'47.39166"**
 NAVD 88 Ortho Height: **1147.720sft** Ellip. Ht: **1049.410sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3539361.021sft** Easting: **4962836.937sft**
 Mapping Angle: **0°06'15"** Combination Scale Factor: **0.9999270044**

IaRCS Zone 4 Northing: **8485442.994sft** Easting: **14902827.673sft**
 Mapping Angle: **1°00'18"** Combination Scale Factor: **1.0000107387**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8031**

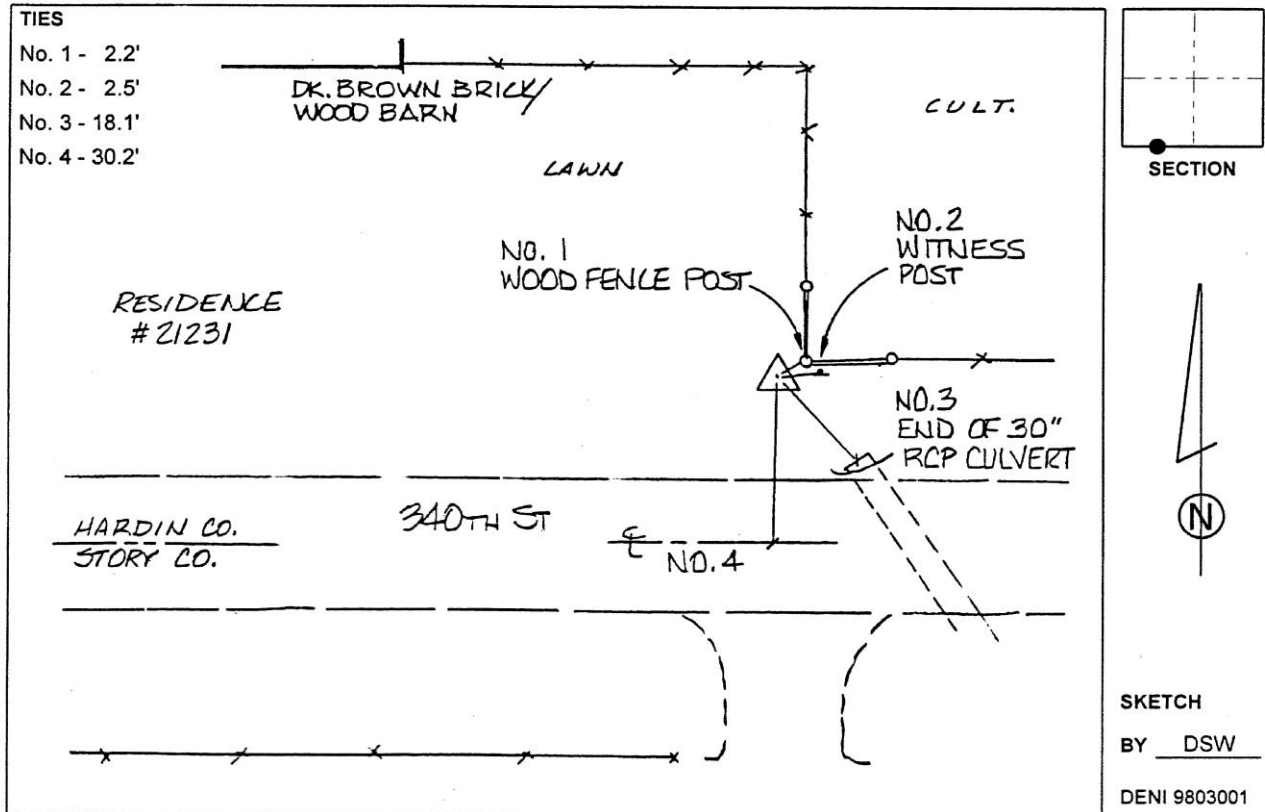
Designation: 862134 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°12'32.96733"** Longitude: **W93°17'07.02783"**
 NAVD 88 Ortho Height: **1080.810sft** Ellip. Ht: **981.078sft** Geoid12B

Iowa North Zone (1401) Northing: **3539340.155sft** Easting: **4979420.690sft**
 Mapping Angle: **0°08'44"** Combination Scale Factor: **0.9999302922**

IaRCS Zone 4 Northing: **8485682.938sft** Easting: **14919411.091sft**
 Mapping Angle: **1°02'47"** Combination Scale Factor: **1.0000140204**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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 Iowa State Plane North Zone (1401)
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9/30/18

Point Name: **8032**

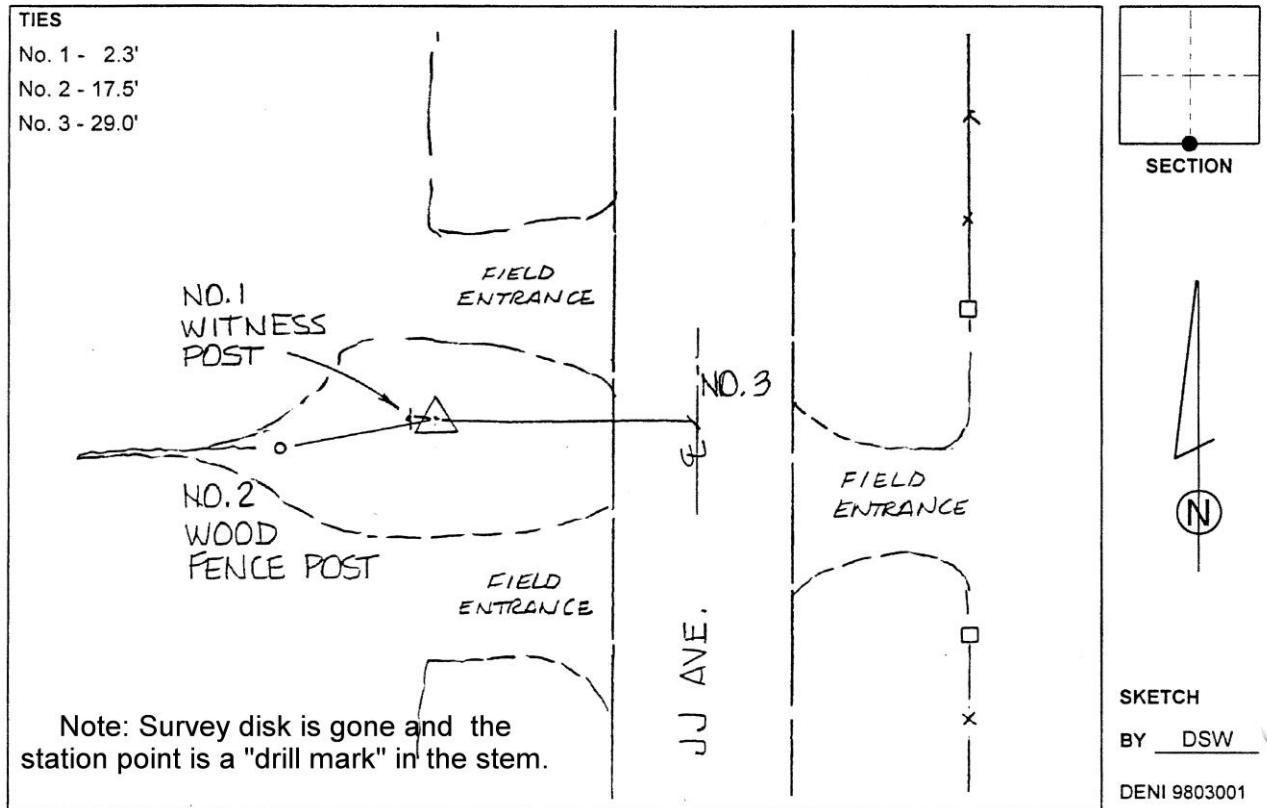
Designation: 862116 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°15'09.15592"** Longitude: **W93°18'00.64150"**
 NAVD 88 Ortho Height: **1068.252sft** Ellip. Ht: **969.163sft** Geoid12B

Iowa North Zone (1401) Northing: **3555140.767sft** Easting: **4975348.583sft**
 Mapping Angle: **0°08'08"** Combination Scale Factor: **0.9999251309**

IaRCS Zone 4 Northing: **8501418.896sft** Easting: **14915090.662sft**
 Mapping Angle: **1°02'11"** Combination Scale Factor: **1.0000106169**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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9/30/18

Point Name: **8033**

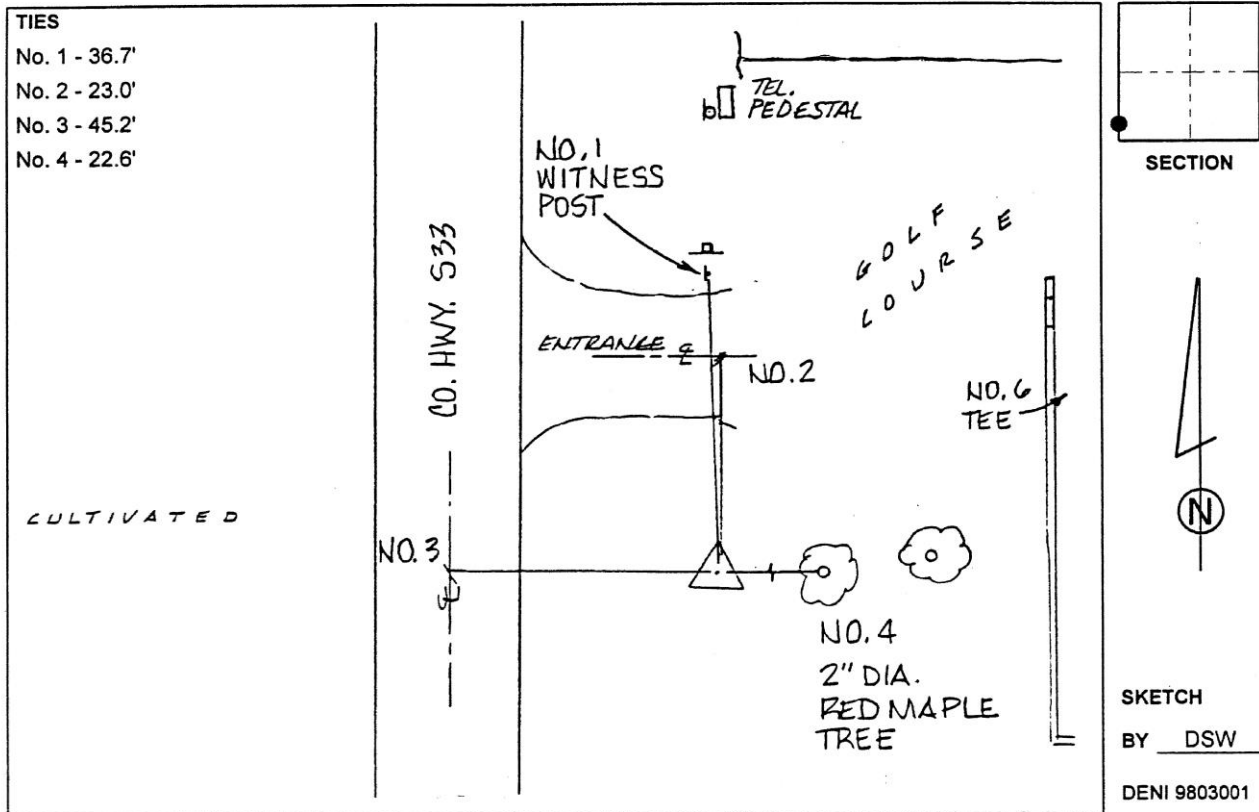
Designation: 872134 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°17'57.71123"** Longitude: **W93°17'24.35610"**
 NAVD 88 Ortho Height: **1110.191sft** Ellip. Ht: **1011.205sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3572209.765sft** Easting: **4978035.018sft**
 Mapping Angle: **0°08'32"** Combination Scale Factor: **0.9999175735**

IaRCS Zone 4 Northing: **8518529.505sft** Easting: **14917508.566sft**
 Mapping Angle: **1°02'36"** Combination Scale Factor: **1.0000049575**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
 US Survey Feet
9/30/18

Point Name: **8034**

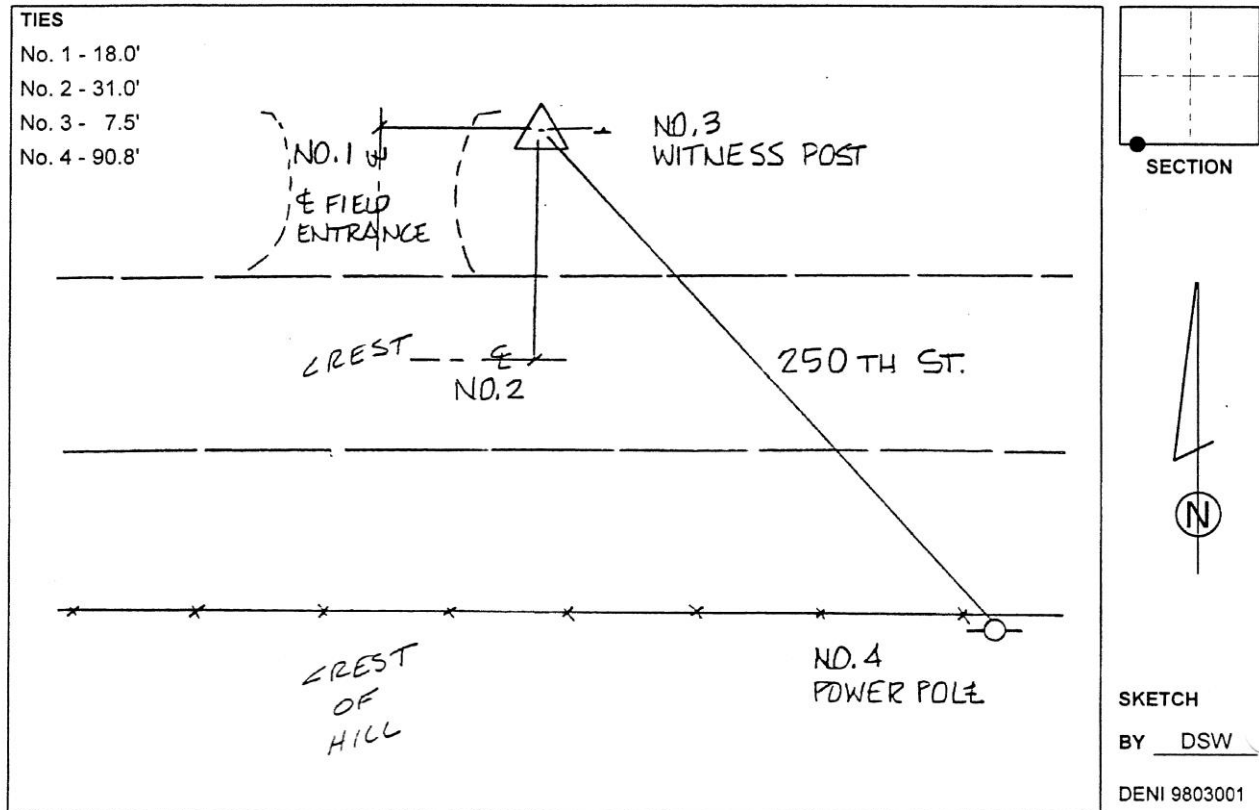
Designation: 872115 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°20'21.42564"** Longitude: **W93°17'12.78484"**
 NAVD 88 Ortho Height: **1128.270sft** Ellip. Ht: **1029.519sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3586759.787sft** Easting: **4978867.898sft**
 Mapping Angle: **0°08'40"** Combination Scale Factor: **0.9999124902**

IaRCS Zone 4 Northing: **8533092.110sft** Easting: **14918112.602sft**
 Mapping Angle: **1°02'44"** Combination Scale Factor: **1.0000014938**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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9/30/18

Point Name: **8035**

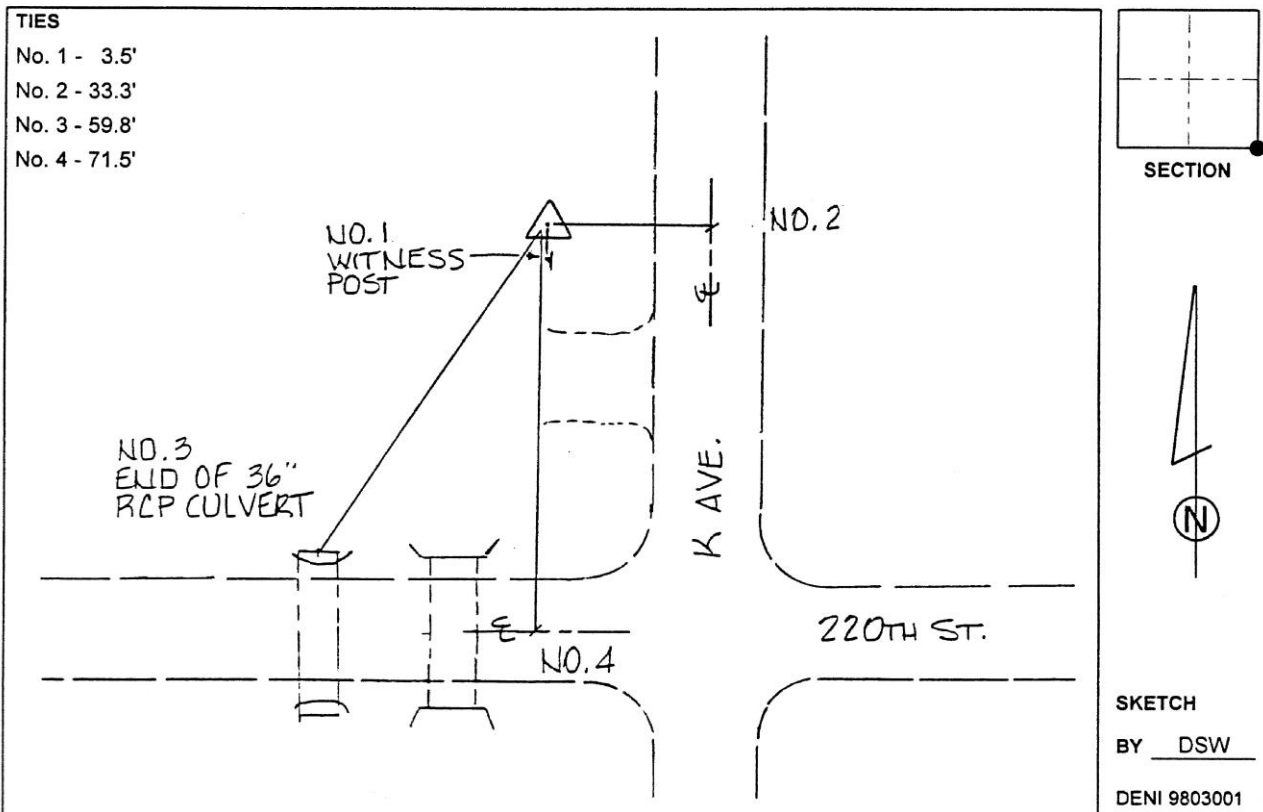
Designation: 882133 2 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°23'00.05912"** Longitude: **W93°17'25.77804"**
 NAVD 88 Ortho Height: **1117.530sft** Ellip. Ht: **1019.251sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3602815.469sft** Easting: **4977852.314sft**
 Mapping Angle: **0°08'31"** Combination Scale Factor: **0.9999088949**

IaRCS Zone 4 Northing: **8549131.279sft** Easting: **14916844.559sft**
 Mapping Angle: **1°02'35"** Combination Scale Factor: **0.9999996876**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
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Point Name: **8036**

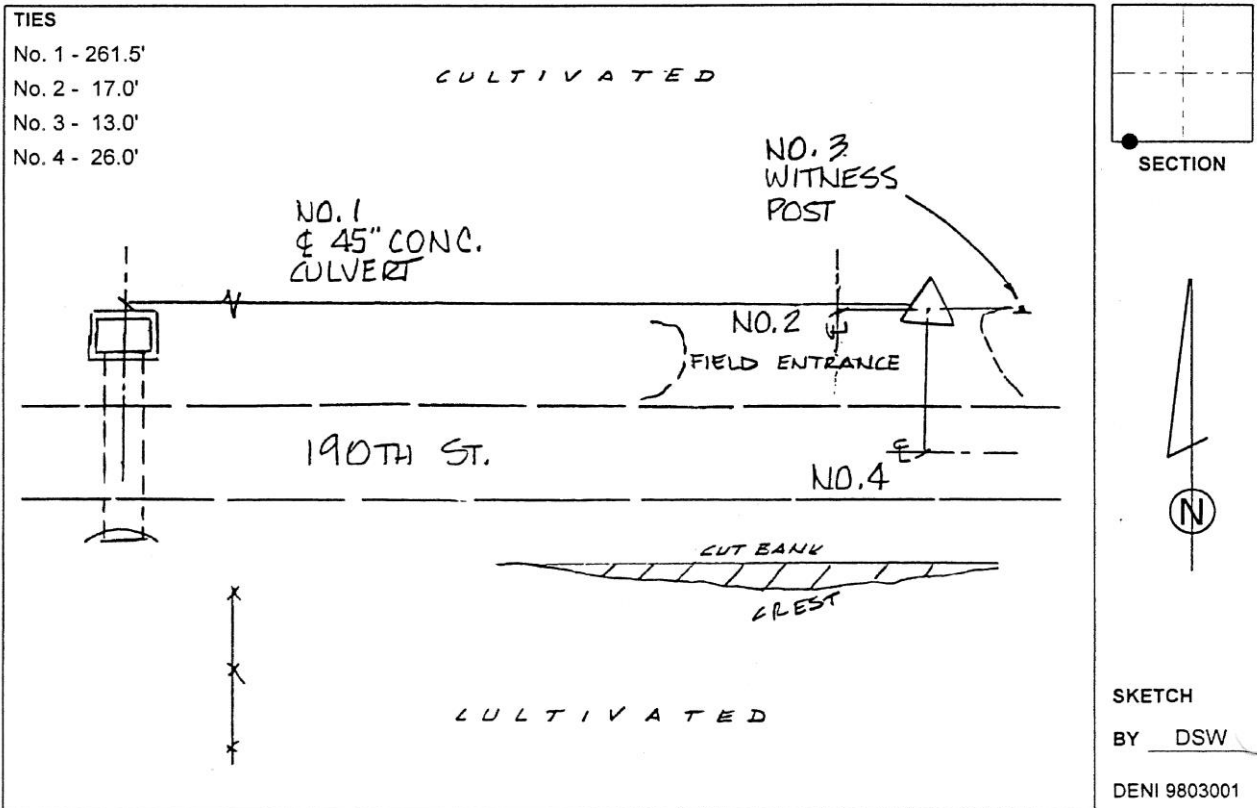
Designation: 882115 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°25'35.20379"** Longitude: **W93°17'22.79034"**
 NAVD 88 Ortho Height: **1125.027sft** Ellip. Ht: **1027.087sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3618521.041sft** Easting: **4978037.458sft**
 Mapping Angle: **0°08'33"** Combination Scale Factor: **0.9999050915**

IaRCS Zone 4 Northing: **8564839.261sft** Easting: **14916782.709sft**
 Mapping Angle: **1°02'37"** Combination Scale Factor: **0.9999976351**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
Iowa State Plane North Zone (1401)
Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
US Survey Feet

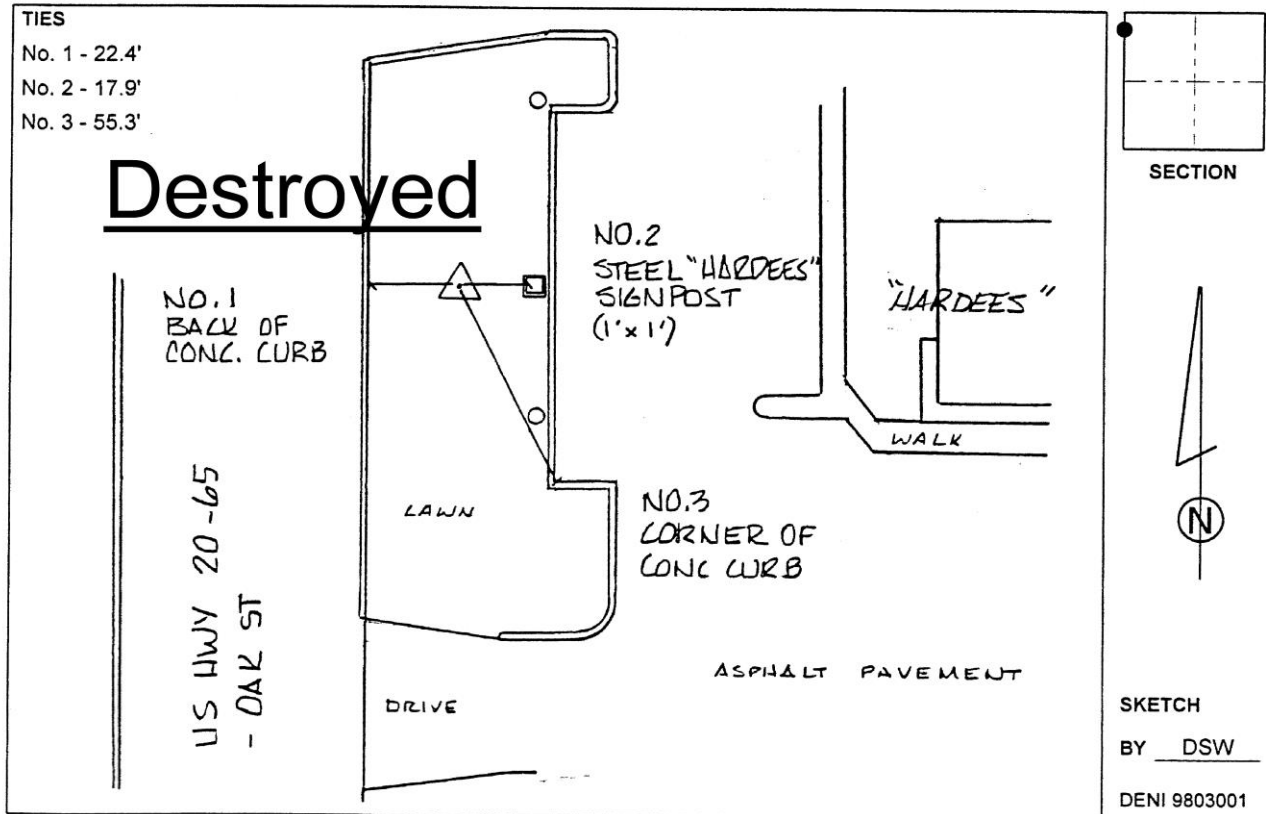
Point Name: **8038 (Destroyed)**

Designation: 892019 4 (Set by Deni Associates in 1998)

NAD 83(1996) Latitude: ~~N 42 30 47.14708~~ Longitude: ~~W 93 15 44.16849~~
NAVD 88 Ortho Height: ~~1098.850~~sft Ellip. Ht: ~~1001.211~~sft

Iowa North Zone (1401) Northing: ~~3650118.290~~sft Easting: ~~4985344.850~~sft
Mapping Angle: ~~0 09 40.04~~ Combination Scale Factor: ~~0.9999489900~~

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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 Iowa State Plane North Zone (1401)
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 US Survey Feet
9/30/18

Point Name: **8039**

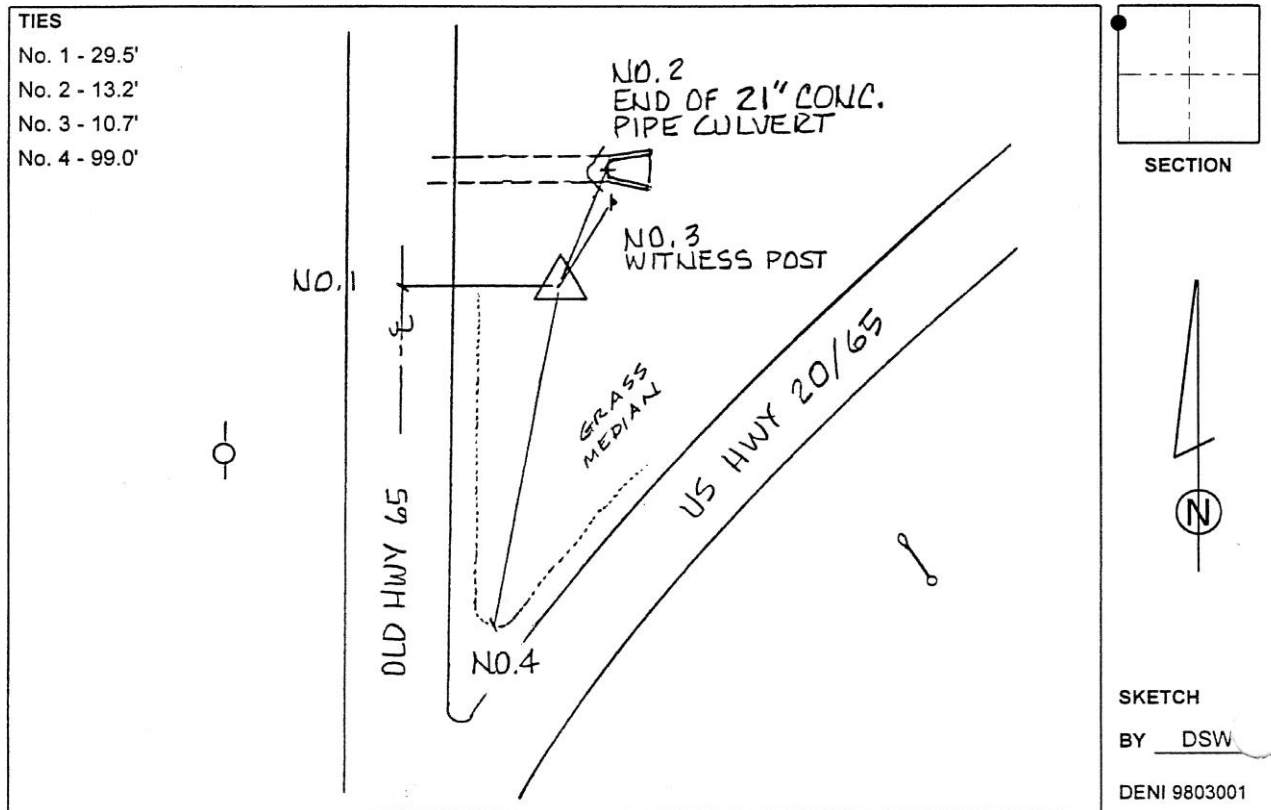
Designation: 892006 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°33'20.43905"** Longitude: **W93°15'43.32061"**
 NAVD 88 Ortho Height: **1153.660sft** Ellip. Ht: **1056.310sft** Geoid12B

Iowa North Zone (1401) Northing: **3665636.158sft** Easting: **4985364.672sft**
 Mapping Angle: **0°09'41"** Combination Scale Factor: **0.9998967803**

IaRCS Zone 4 Northing: **8612068.262sft** Easting: **14923368.793sft**
 Mapping Angle: **1°03'44"** Combination Scale Factor: **0.9999945820**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
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9/30/18

Point Name: **8040**

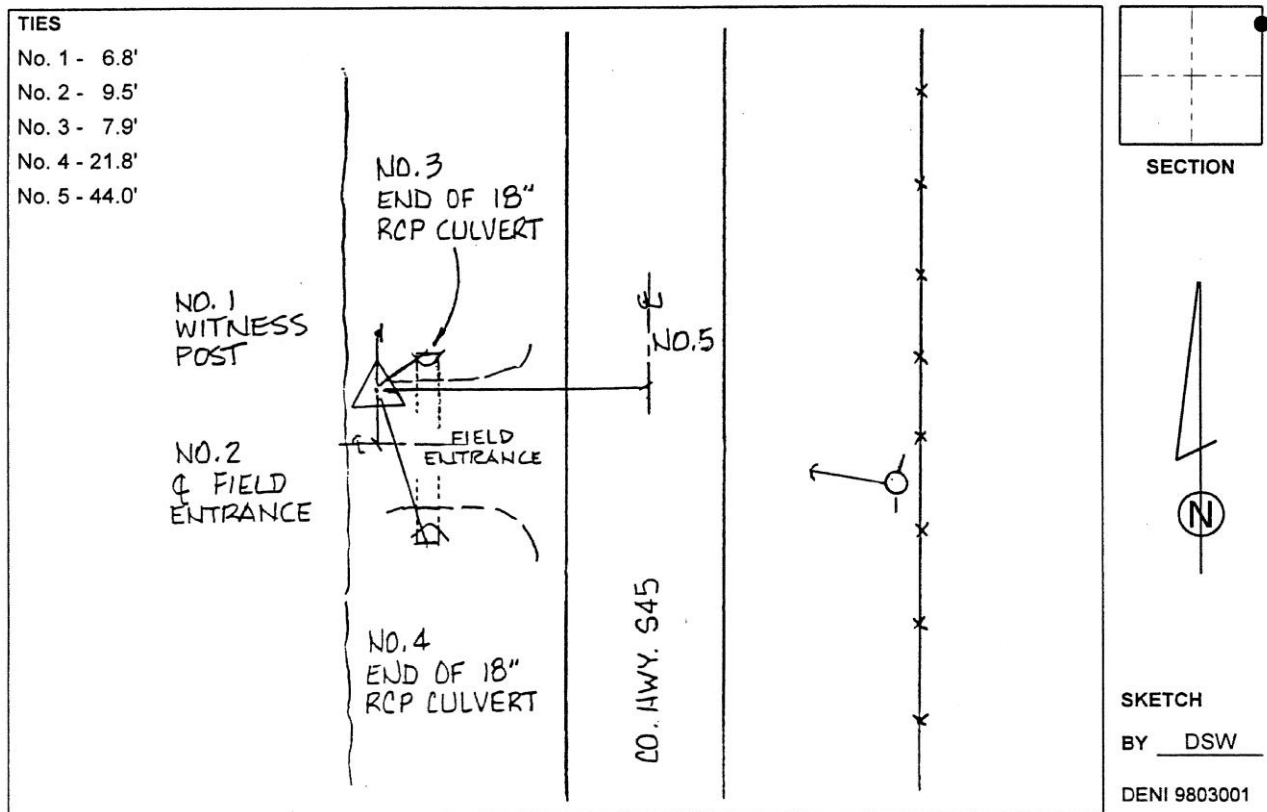
Designation: 892004 1 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°33'19.96039"** Longitude: **W93°12'12.95894"**
 NAVD 88 Ortho Height: **1155.680sft** Ellip. Ht: **1056.508sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3665637.461sft** Easting: **5001108.444sft**
 Mapping Angle: **0°12'03"** Combination Scale Factor: **0.9998967754**

IaRCS Zone 4 Northing: **8612317.128sft** Easting: **14939112.138sft**
 Mapping Angle: **1°06'06"** Combination Scale Factor: **0.9999945717**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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 Iowa State Plane North Zone (1401)
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 US Survey Feet
9/30/18

Point Name: **8041**

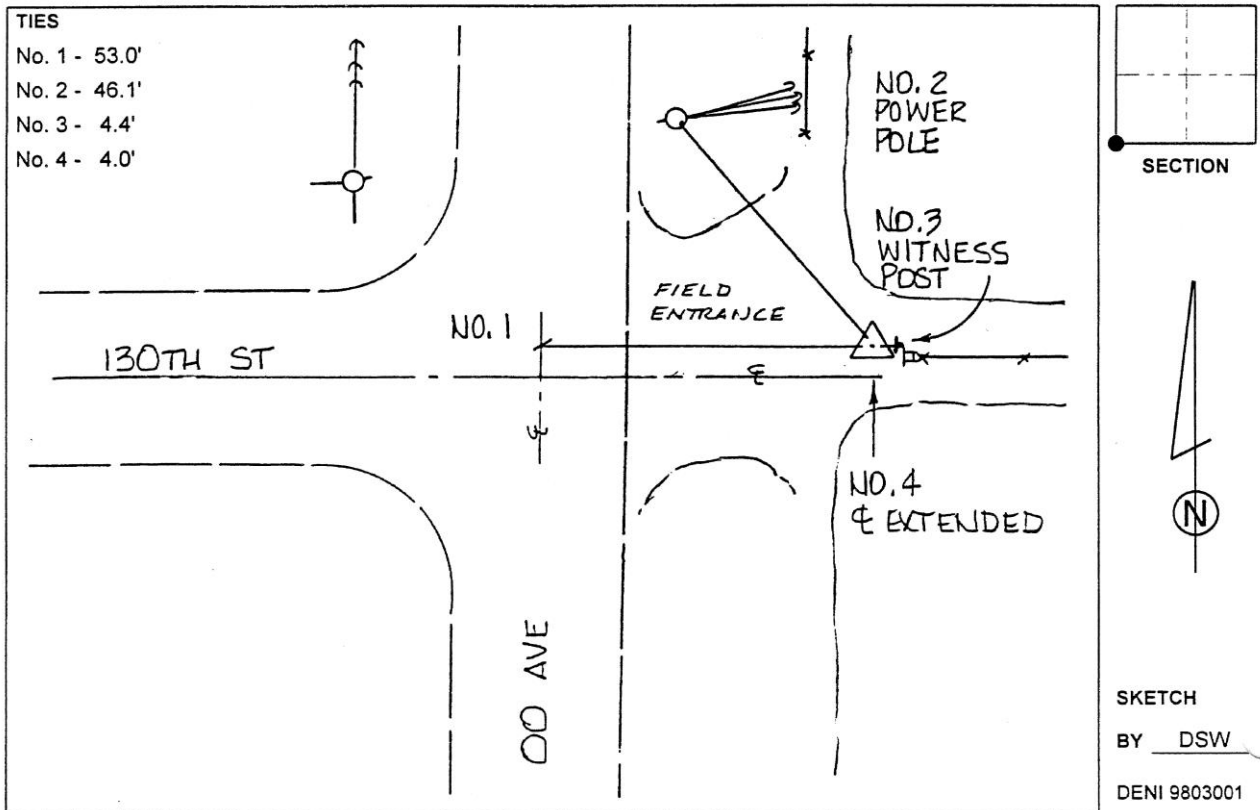
Designation: 892015 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°30'52.95173"** Longitude: **W93°12'14.93320"**
 NAVD 88 Ortho Height: **1115.480sft** Ellip. Ht: **1015.836sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3650755.343sft** Easting: **5001012.769sft**
 Mapping Angle: **0°12'02"** Combination Scale Factor: **0.9999003596**

IaRCS Zone 4 Northing: **8597433.902sft** Easting: **14939250.466sft**
 Mapping Angle: **1°06'05"** Combination Scale Factor: **0.9999964933**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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9/30/18

Point Name: **8042**

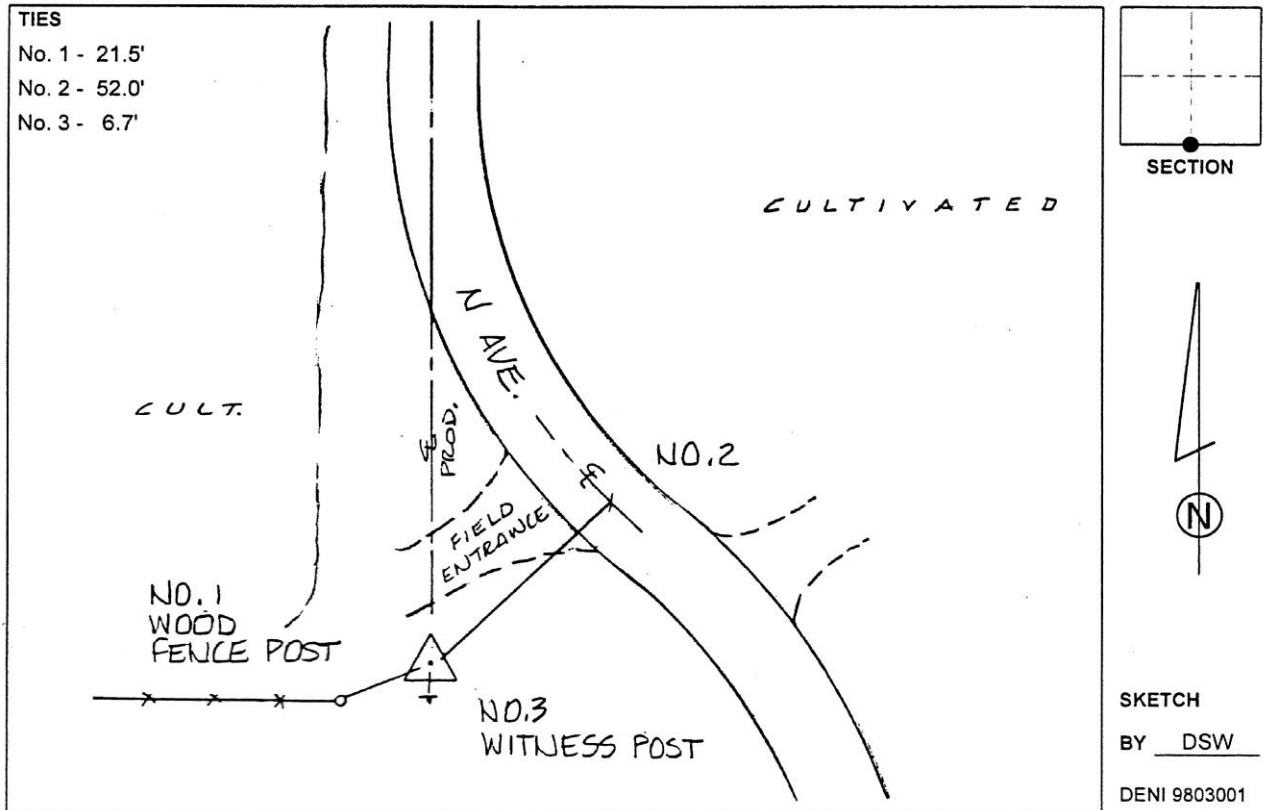
Designation: 892132 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°28'15.23642"** Longitude: **W93°13'57.09581"**
 NAVD 88 Ortho Height: **1108.896sft** Ellip. Ht: **1009.641sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3634764.493sft** Easting: **4993412.359sft**
 Mapping Angle: **0°10'53"** Combination Scale Factor: **0.9999029767**

IaRCS Zone 4 Northing: **8581323.997sft** Easting: **14931901.713sft**
 Mapping Angle: **1°04'56"** Combination Scale Factor: **0.9999973279**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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 US Survey Feet
9/30/18

Point Name: **8043**

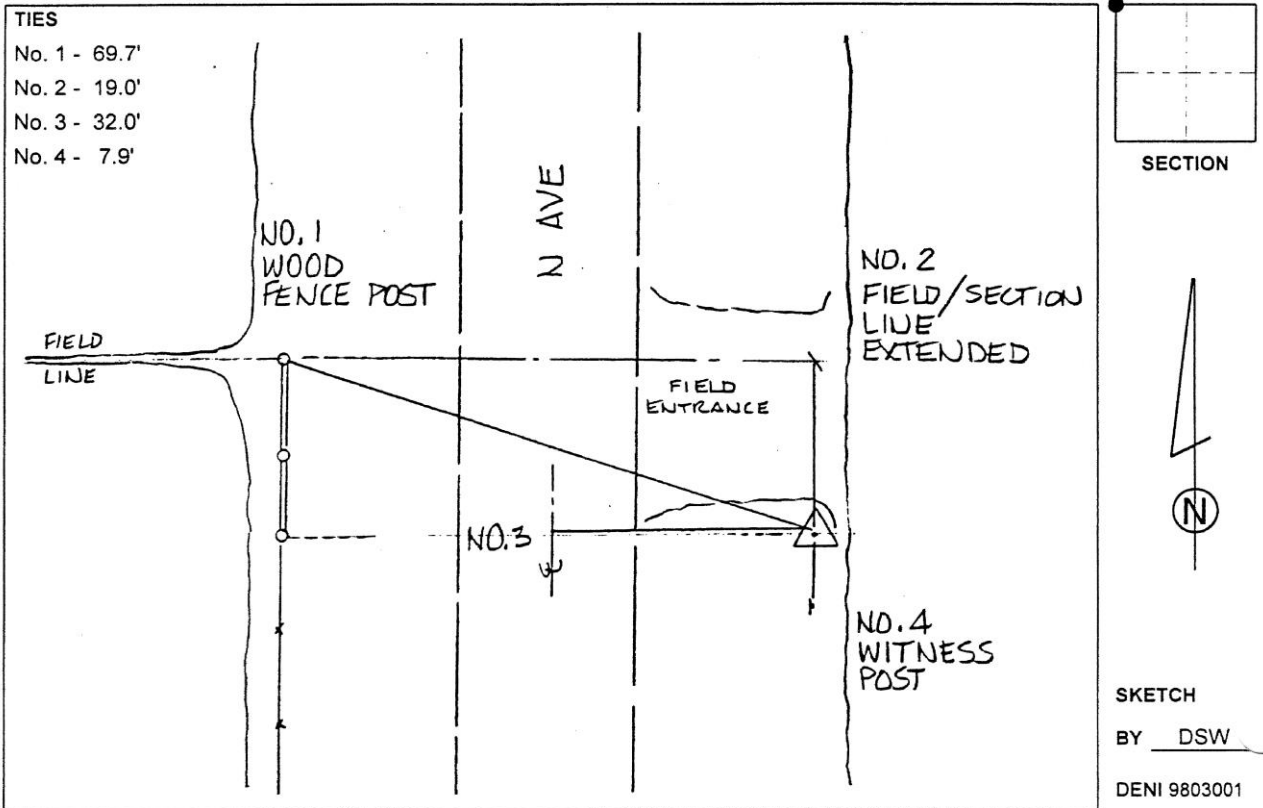
Designation: 882019 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°25'34.35159"** Longitude: **W93°13'54.51182"**
 NAVD 88 Ortho Height: **1142.591sft** Ellip. Ht: **1042.994sft** Geoid12B

Iowa North Zone (1401) Northing: **3618478.983sft** Easting: **4993657.675sft**
 Mapping Angle: **0°10'54"** Combination Scale Factor: **0.9999043485**

IaRCS Zone 4 Northing: **8565042.835sft** Easting: **14932403.102sft**
 Mapping Angle: **1°04'58"** Combination Scale Factor: **0.9999968824**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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 US Survey Feet

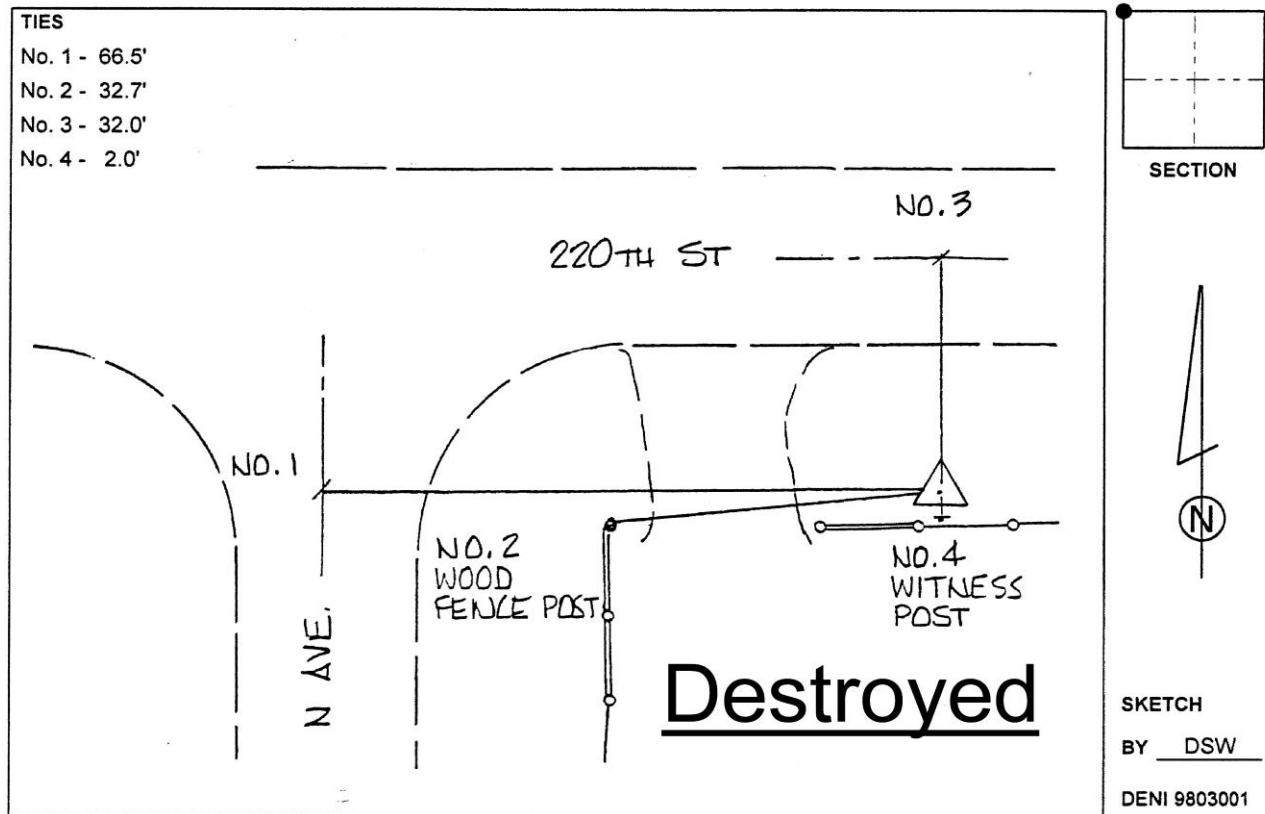
Point Name: **8044 (Destroyed)**

Designation: 872006 4 (Set by Deni Associates in 1998)

NAD 83(1996) Latitude: ~~N 42 22 58.25818~~ Longitude: ~~W 93 13 54.09618~~
 NAVD 88 Ortho Height: ~~1115.790~~sft Ellip. Ht: ~~1016.107~~sft

Iowa North Zone (1401) Northing: ~~3602678.060~~sft Easting: ~~4993739.000~~sft
 Mapping Angle: ~~0 10 54.64~~ Combination Scale Factor: ~~0.9999576600~~

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
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9/30/18

Point Name: **8045**

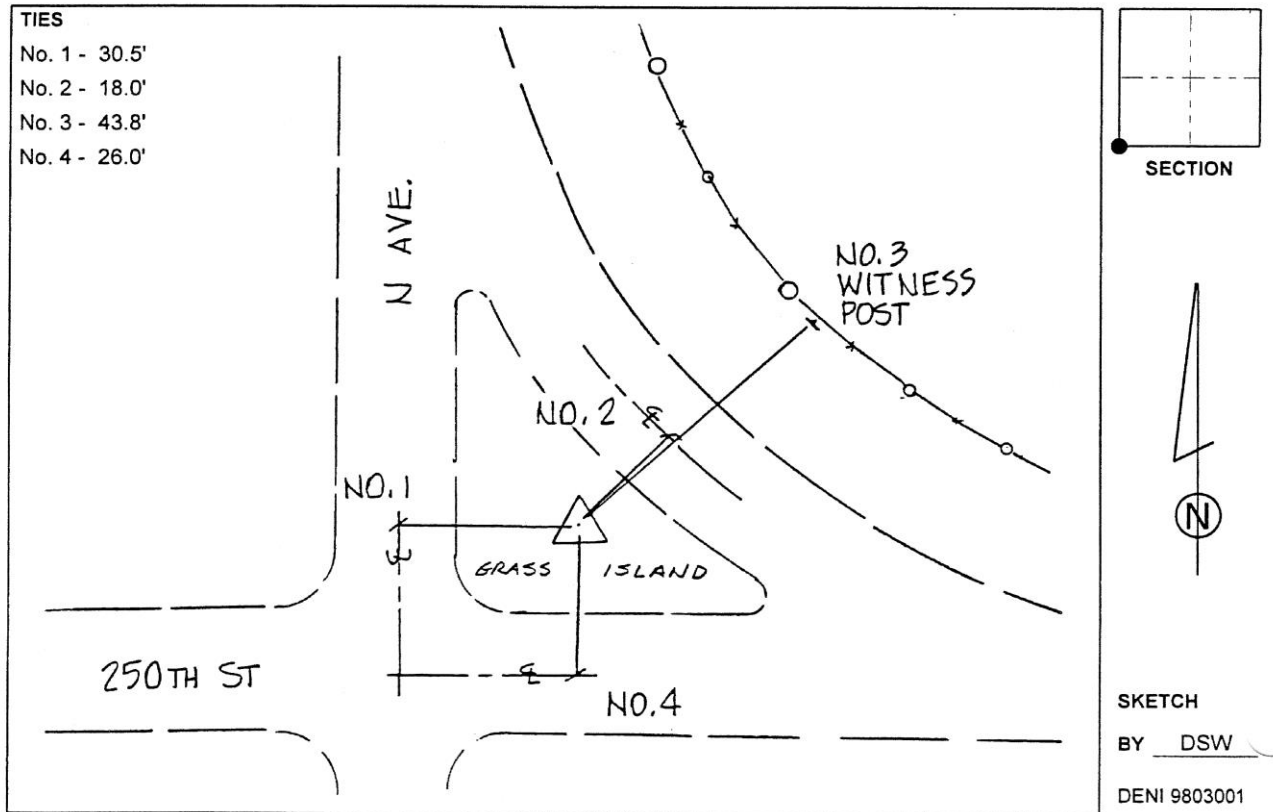
Designation: 872018 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°20'20.58703"** Longitude: **W93°13'54.44499"**
 NAVD 88 Ortho Height: **1082.730sft** Ellip. Ht: **982.541sft** Geoid12B

Iowa North Zone (1401) Northing: **3586717.300sft** Easting: **4993763.455sft**
 Mapping Angle: **0°10'54"** Combination Scale Factor: **0.9999147588**

IaRCS Zone 4 Northing: **8533283.859sft** Easting: **14933008.311sft**
 Mapping Angle: **1°04'58"** Combination Scale Factor: **1.0000037532**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
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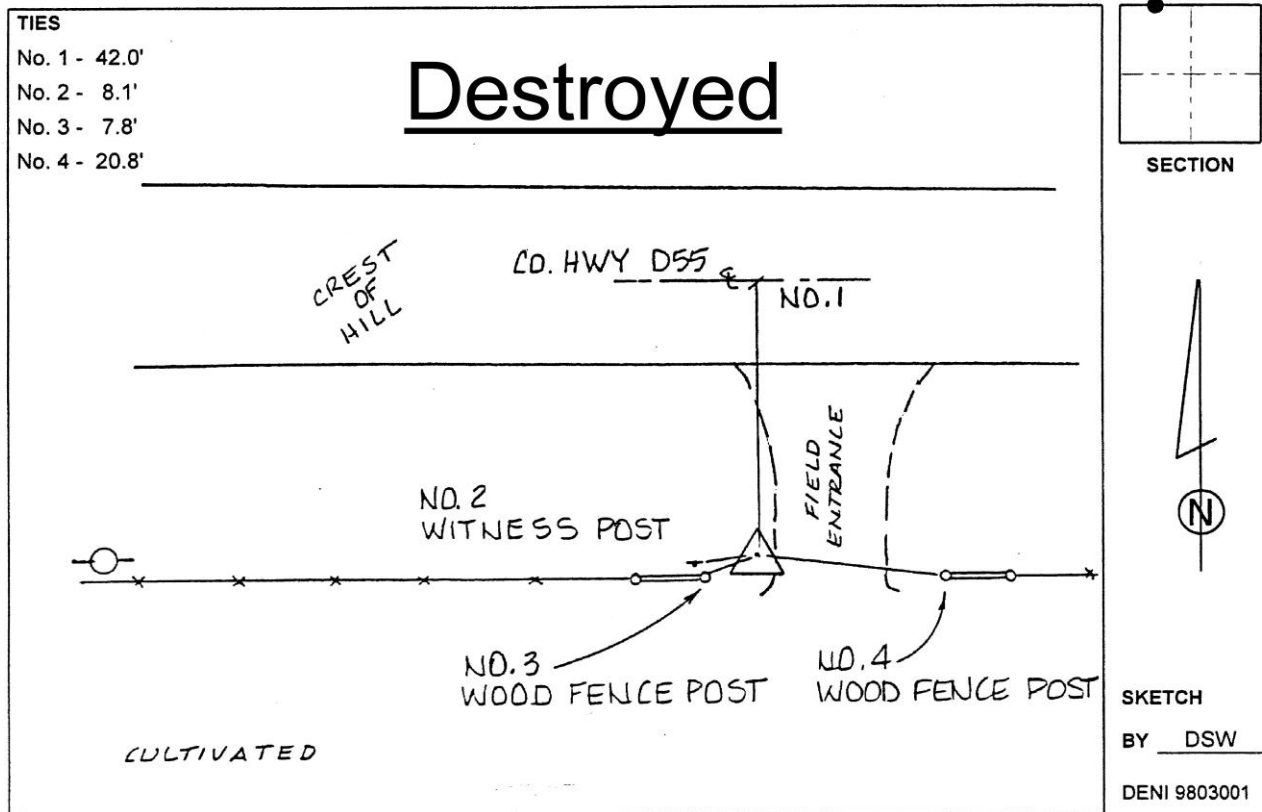
Point Name: **8046 (Destroyed)**

Designation: 862006 4 (Set by Deni Associates in 1998)

NAD 83(1996) Latitude: ~~N 42 17 44.06621~~ Longitude: ~~W 93 13 41.10548~~
 NAVD 88 Ortho Height: ~~1120.500~~sft Ellip. Ht: ~~1020.306~~sft

Iowa North Zone (1401) Northing: ~~3570876.330~~sft Easting: ~~4994816.220~~sft
 Mapping Angle: ~~0 11 03.44~~ Combination Scale Factor: ~~0.9999663300~~

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
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 Iowa State Plane North Zone (1401)
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Point Name: **8047**

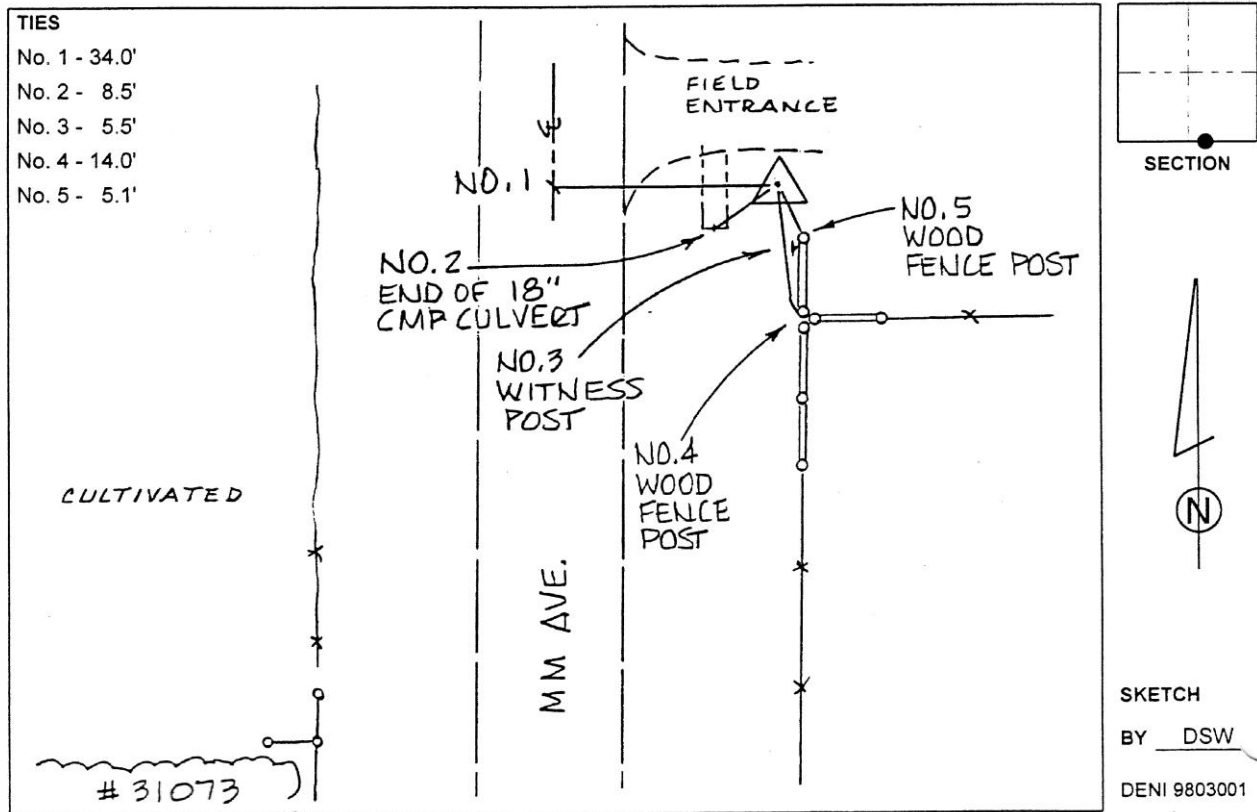
Designation: 862113 2 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°15'08.96581"** Longitude: **W93°14'28.62383"**
 NAVD 88 Ortho Height: **1150.970sft** Ellip. Ht: **1050.536sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3555164.764sft** Easting: **4991293.159sft**
 Mapping Angle: **0°10'31"** Combination Scale Factor: **0.9999212481**

IaRCS Zone 4 Northing: **8501693.628sft** Easting: **14931034.252sft**
 Mapping Angle: **1°04'35"** Combination Scale Factor: **1.0000067315**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



This document was prepared by Dan Corbin, Inc. on February 18th, 2019 for Hardin County, Iowa.

Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
 US Survey Feet
9/30/18

Point Name: **8048**

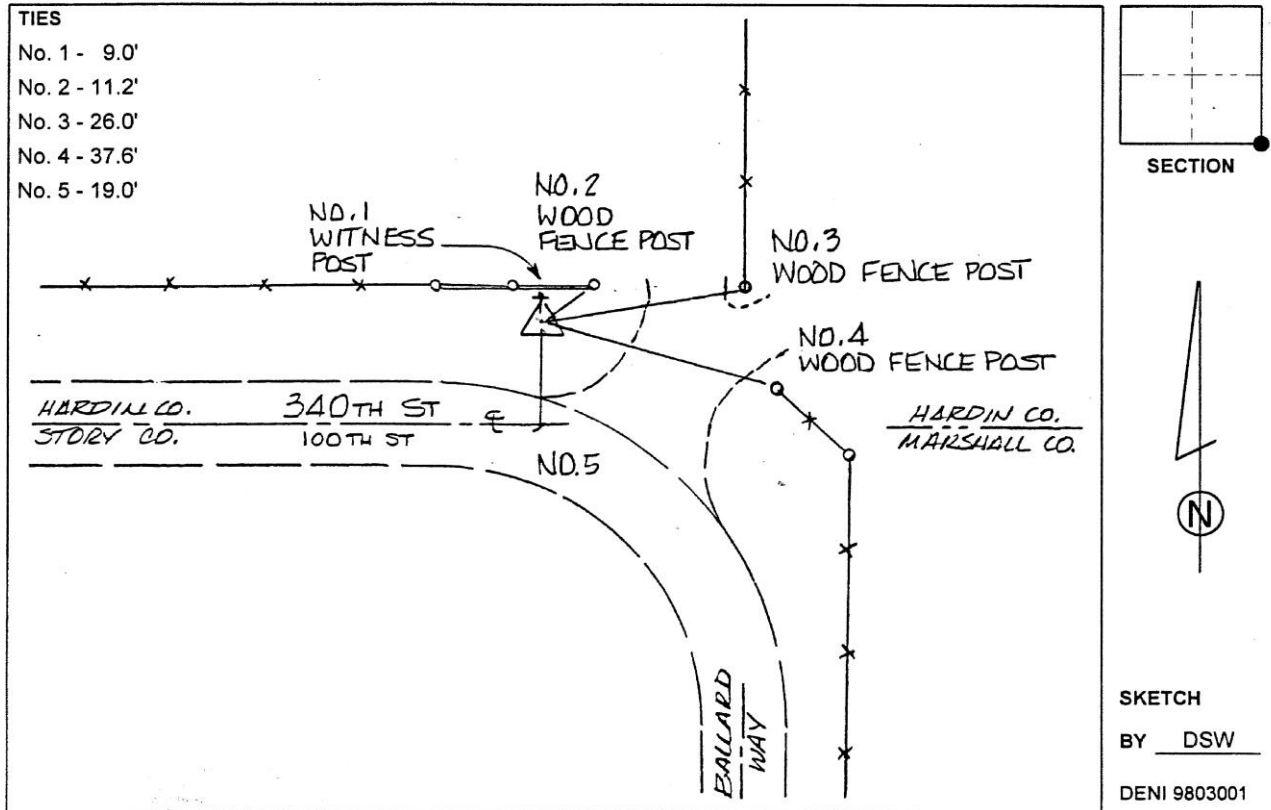
Designation: 862136 2 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°12'32.62100"** Longitude: **W93°13'54.31452"**
 NAVD 88 Ortho Height: **1104.060sft** Ellip. Ht: **1003.258sft** Geoid12B

Iowa North Zone (1401) Northing: **3539346.523sft** Easting: **4993923.564sft**
 Mapping Angle: **0°10'54"** Combination Scale Factor: **0.9999292454**

IaRCS Zone 4 Northing: **8485917.365sft** Easting: **14933913.287sft**
 Mapping Angle: **1°04'58"** Combination Scale Factor: **1.0000129696**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
 US Survey Feet
9/30/18

Point Name: **8049**

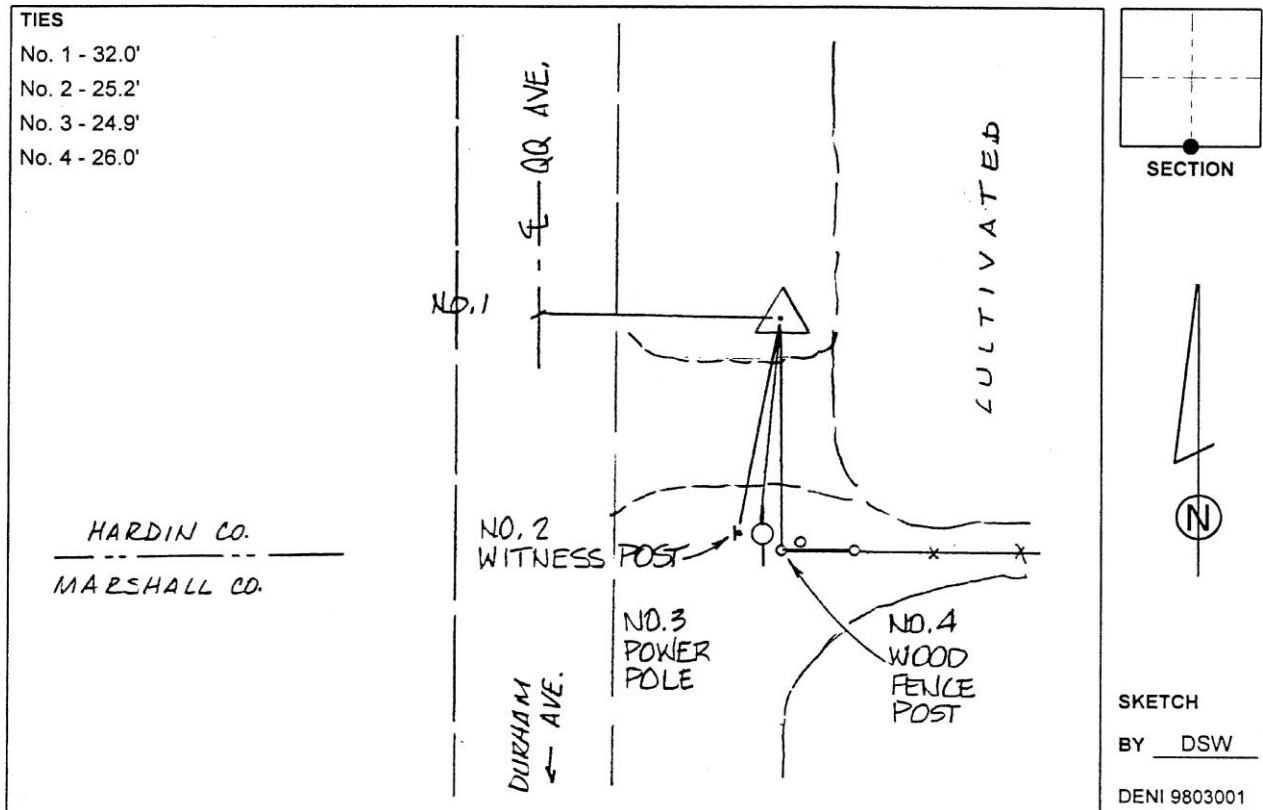
Designation: 862034 2 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°12'31.98021"** Longitude: **W93°09'59.20524"**
 NAVD 88 Ortho Height: **1026.439sft** Ellip. Ht: **924.517sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3539344.635sft** Easting: **5011617.106sft**
 Mapping Angle: **0°13'34"** Combination Scale Factor: **0.9999330338**

IaRCS Zone 4 Northing: **8486193.677sft** Easting: **14951606.153sft**
 Mapping Angle: **1°07'37"** Combination Scale Factor: **1.0000167512**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
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Point Name: **8050**

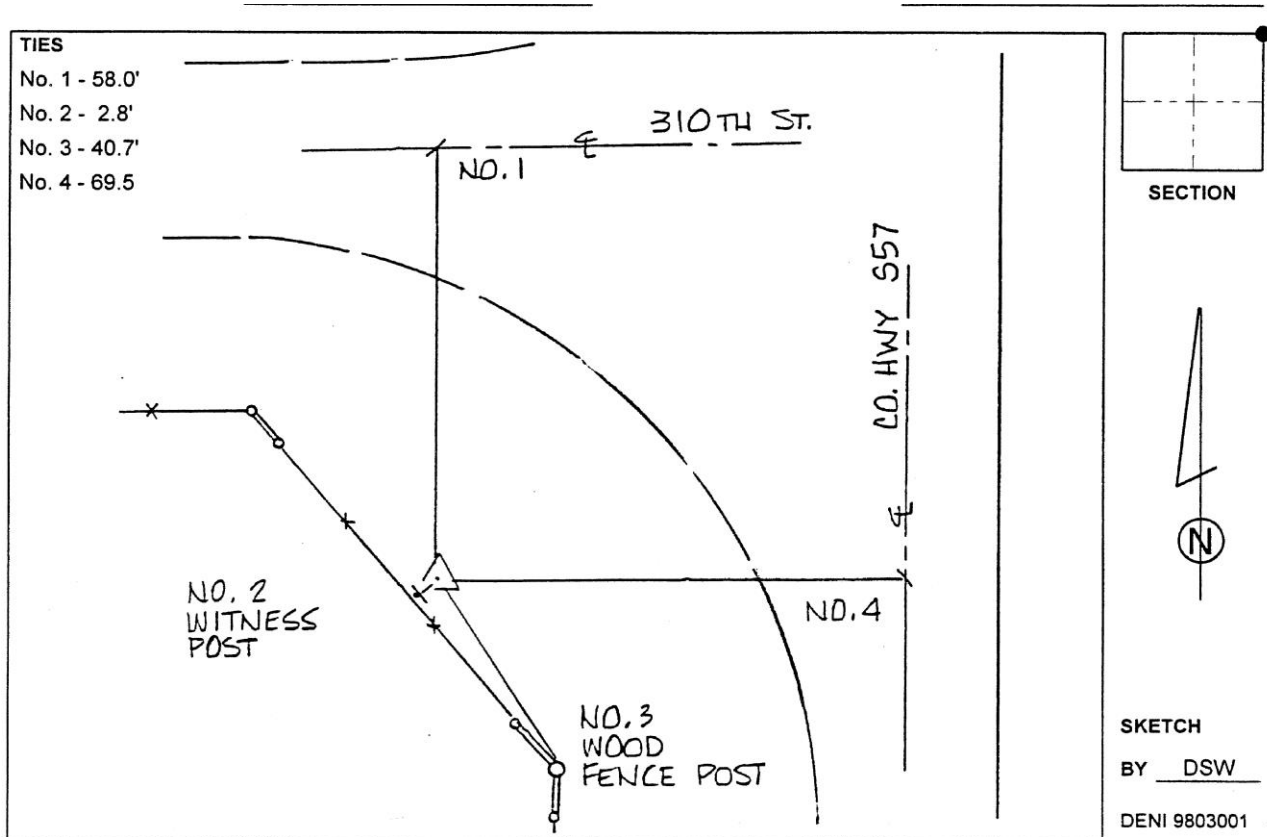
Designation: 862021 1 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°15'08.17844"** Longitude: **W93°10'36.00041"**
 NAVD 88 Ortho Height: **1046.280sft** Ellip. Ht: **944.604sft** Geoid12B

Iowa North Zone (1401) Northing: **3555145.285sft** Easting: **5008787.586sft**
 Mapping Angle: **0°13'09"** Combination Scale Factor: **0.9999263389**

IaRCS Zone 4 Northing: **8501949.225sft** Easting: **14948528.318sft**
 Mapping Angle: **1°07'12"** Combination Scale Factor: **1.0000118139**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
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Point Name: **8051**

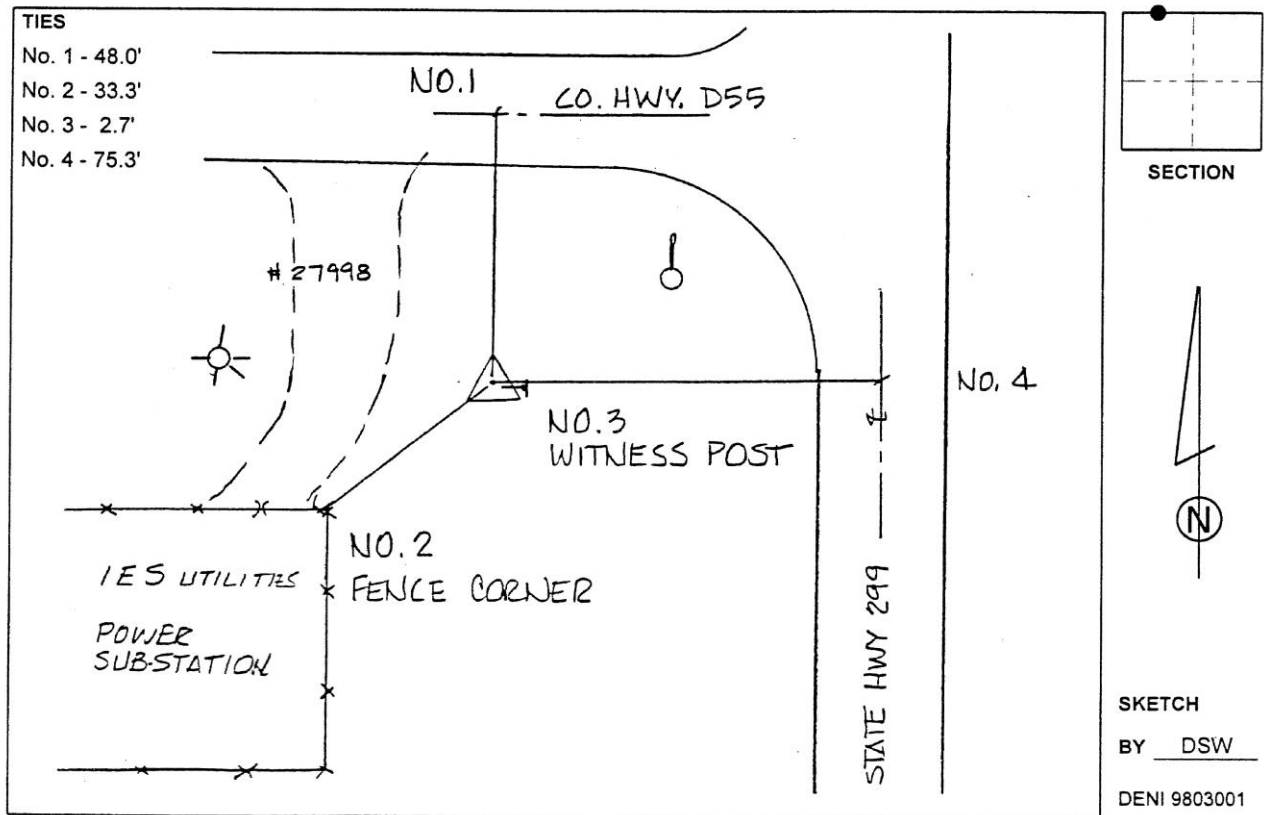
Designation: 862003 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°17'44.04344"** Longitude: **W93°10'18.90953"**
 NAVD 88 Ortho Height: **1090.600sft** Ellip. Ht: **988.938sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3570927.945sft** Easting: **5010011.654sft**
 Mapping Angle: **0°13'20"** Combination Scale Factor: **0.9999190631**

IaRCS Zone 4 Northing: **8517750.542sft** Easting: **14949504.196sft**
 Mapping Angle: **1°07'23"** Combination Scale Factor: **1.0000062932**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
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Point Name: **8052**

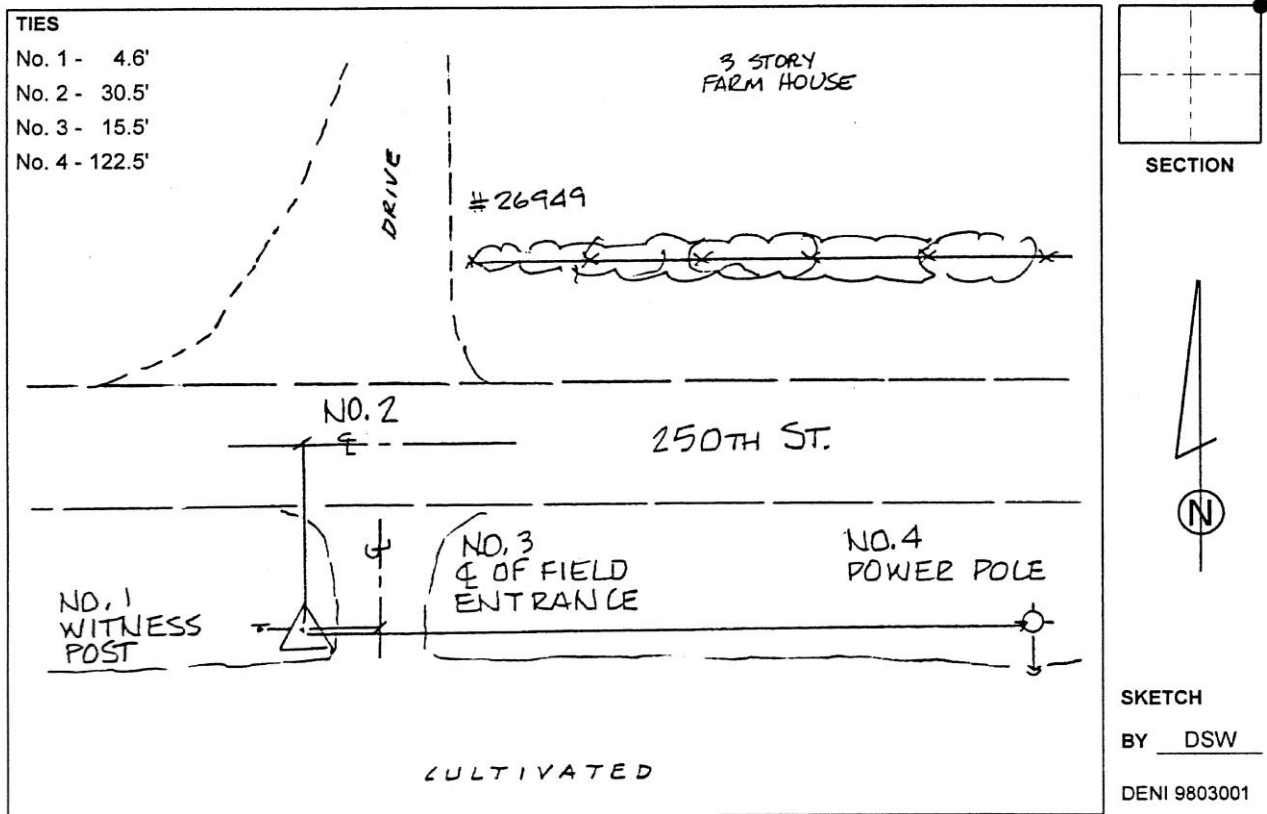
Designation: 872021 1 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°20'20.57120"** Longitude: **W93°10'39.68030"**
 NAVD 88 Ortho Height: **1058.600sft** Ellip. Ht: **957.176sft** Geoid12B

Iowa North Zone (1401) Northing: **3586766.784sft** Easting: **5008390.280sft**
 Mapping Angle: **0°13'06"** Combination Scale Factor: **0.9999159716**

IaRCS Zone 4 Northing: **8533563.328sft** Easting: **14947633.852sft**
 Mapping Angle: **1°07'09"** Combination Scale Factor: **1.0000049659**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
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Point Name: **8053**

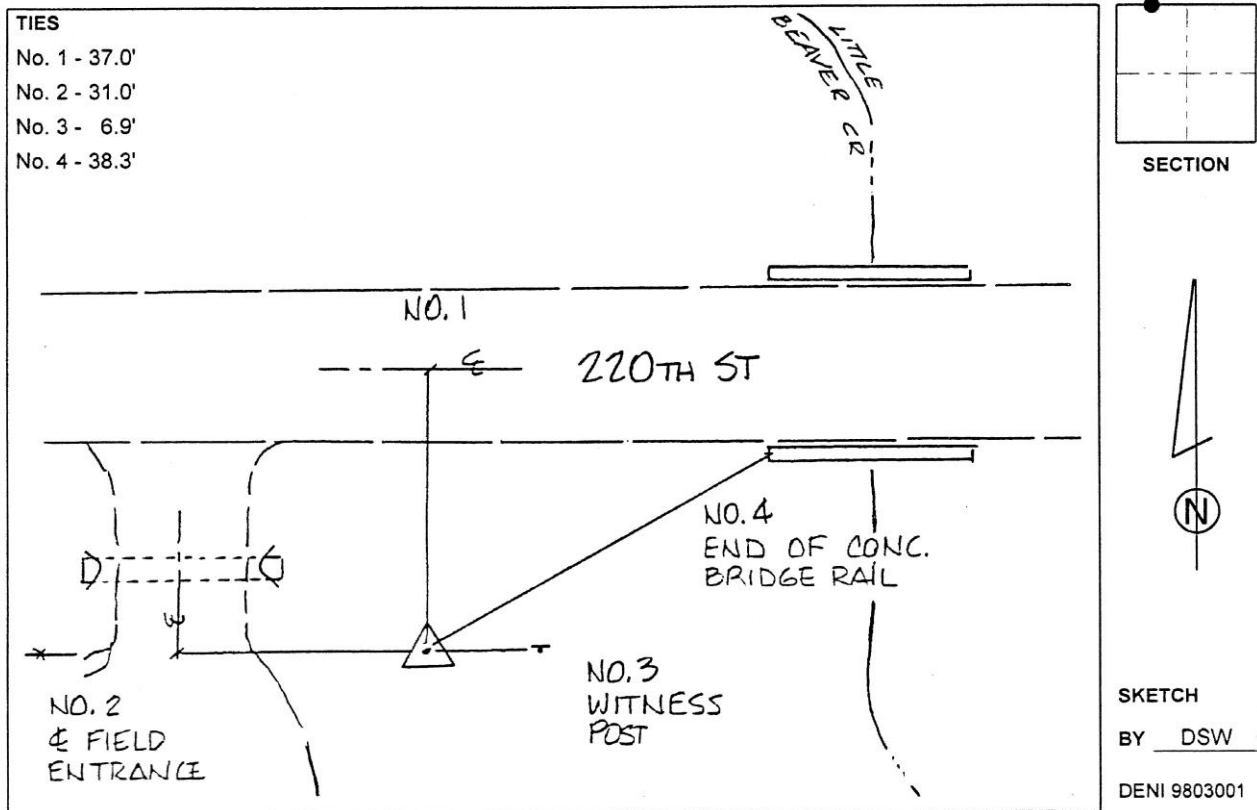
Designation: 872004 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°22'58.15215"** Longitude: **W93°11'33.85749"**
 NAVD 88 Ortho Height: **1064.070sft** Ellip. Ht: **963.202sft** Geoid12B

Iowa North Zone (1401) Northing: **3602703.151sft** Easting: **5004263.602sft**
 Mapping Angle: **0°12'30"** Combination Scale Factor: **0.9999116195**

IaRCS Zone 4 Northing: **8549434.274sft** Easting: **14943256.746sft**
 Mapping Angle: **1°06'33"** Combination Scale Factor: **1.0000023909**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
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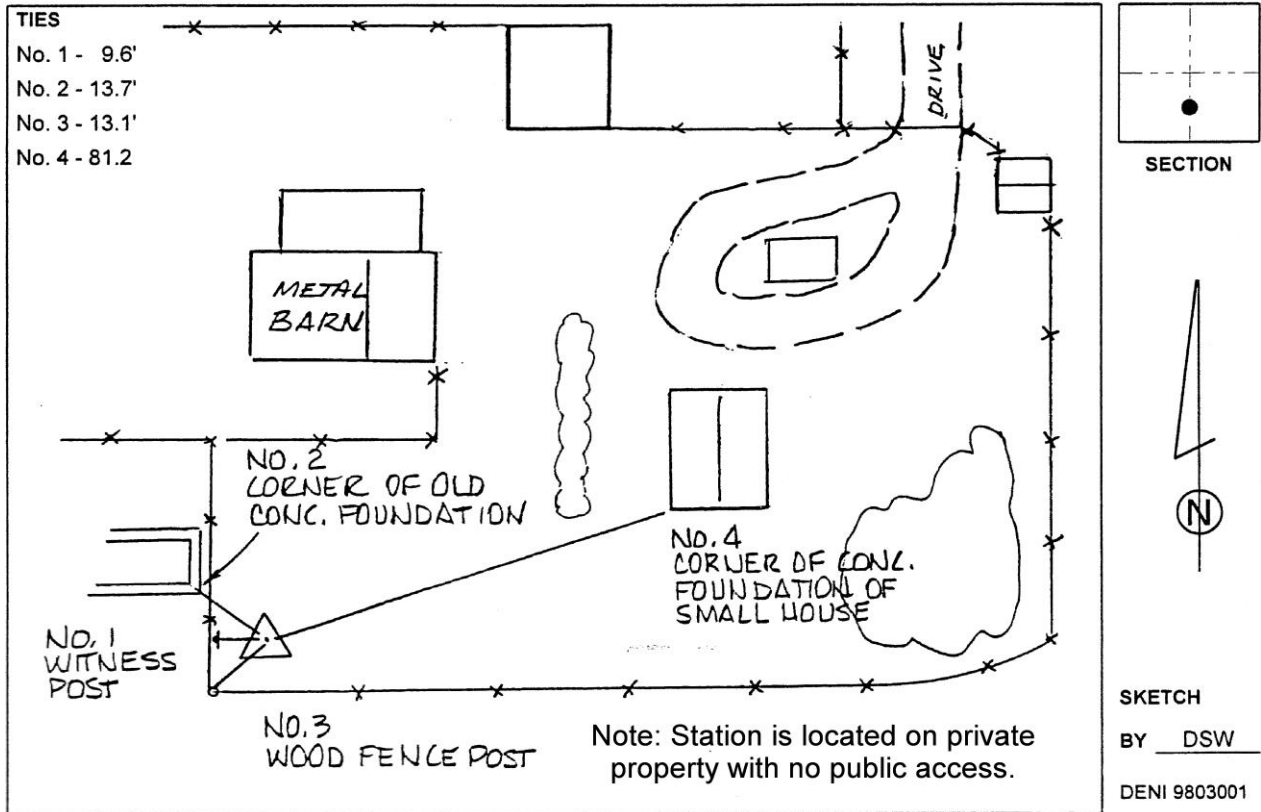
Point Name: **8054 (no access)**

Designation: 882016 2 (Set by Deni Associates in 1998)

NAD 83(1996) Latitude: ~~N 42 25 47.62528~~ Longitude: ~~W 93 11 08.13959~~
 NAVD 88 Ortho Height: ~~1102.260~~sft Ellip. Ht: ~~1001.638~~sft

Iowa North Zone (1401) Northing: ~~3619865.650~~sft Easting: ~~5006129.860~~sft
 Mapping Angle: ~~0 12 47.11~~ Combination Scale Factor: ~~0.9999539300~~

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
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Point Name: **8055**

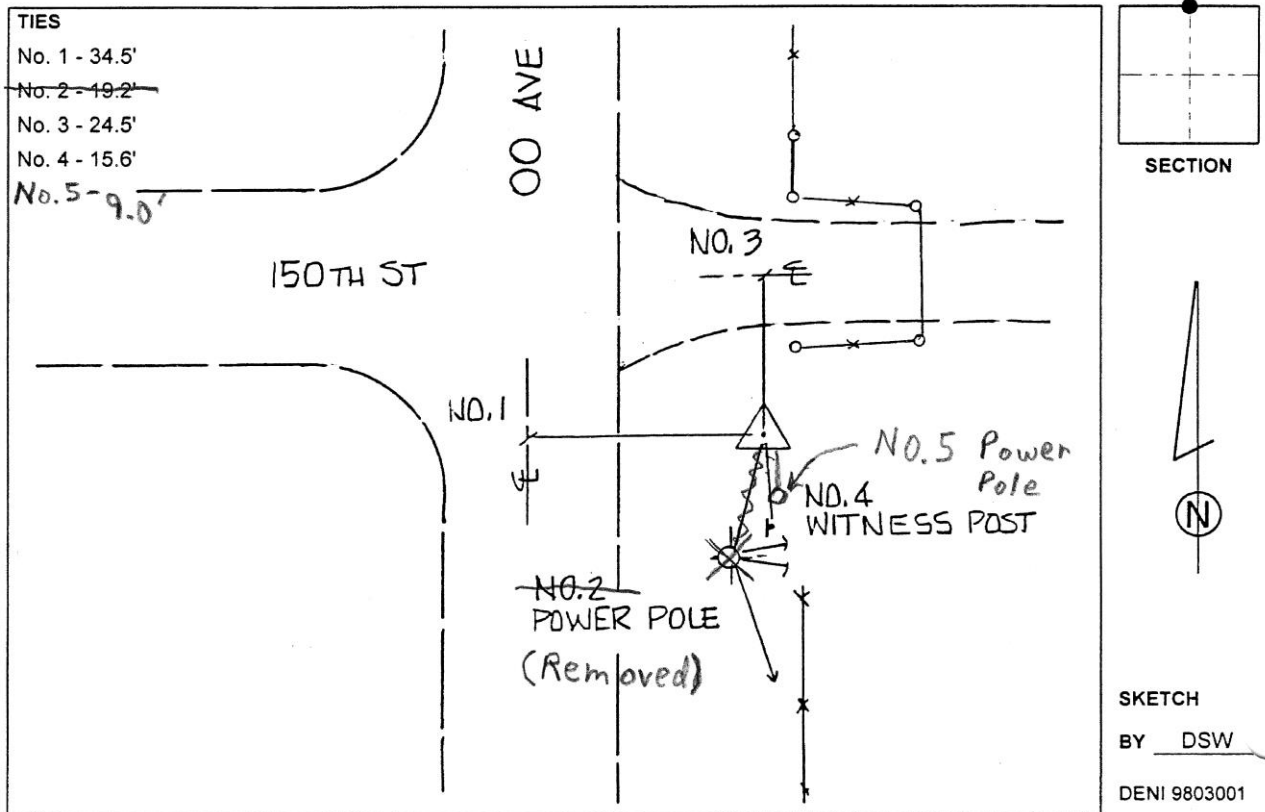
Designation: 882004 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°28'15.43068"** Longitude: **W93°11'15.63982"**
 NAVD 88 Ortho Height: **1039.590sft** Ellip. Ht: **939.108sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3634825.650sft** Easting: **5005512.136sft**
 Mapping Angle: **0°12'42"** Combination Scale Factor: **0.9999063447**

IaRCS Zone 4 Northing: **8581575.406sft** Easting: **14944000.174sft**
 Mapping Angle: **1°06'45"** Combination Scale Factor: **1.0000006983**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
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 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
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Point Name: **8056**

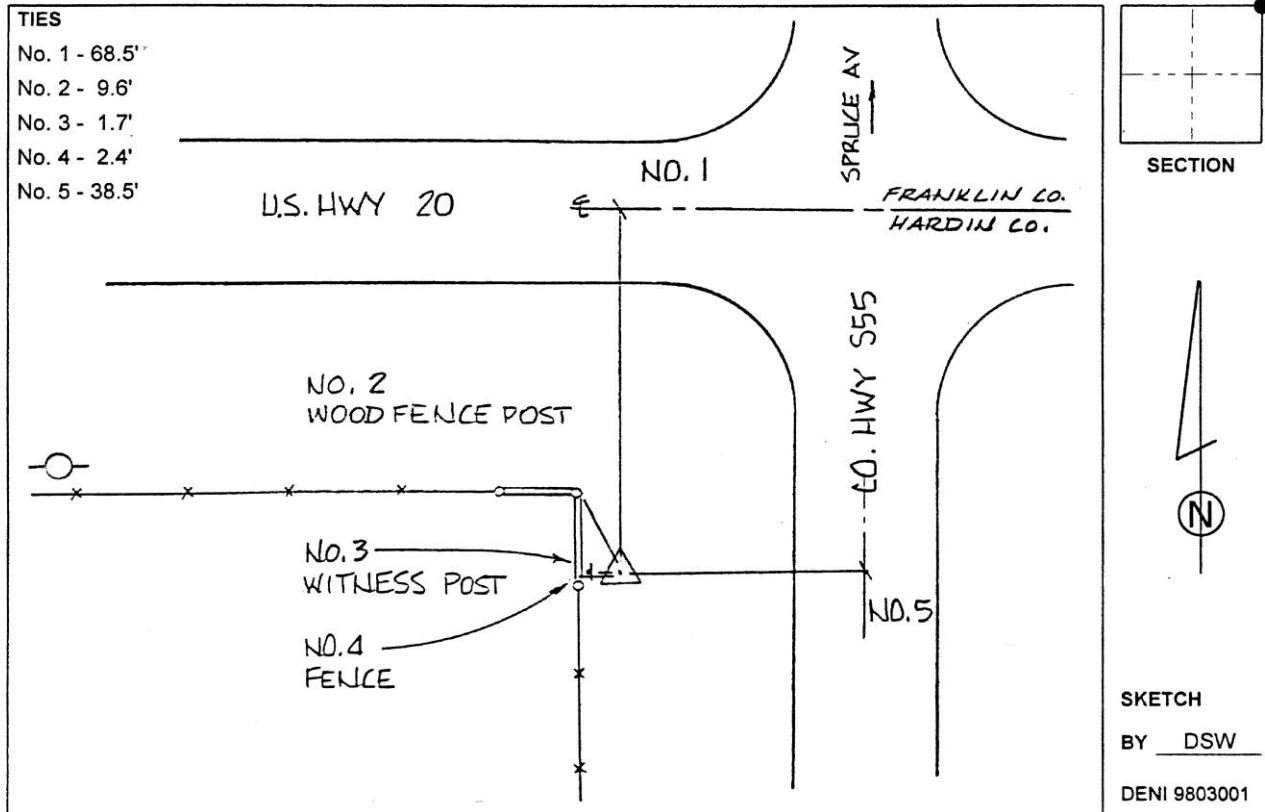
Designation: 892001 1 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°33'23.56340"** Longitude: **W93°08'41.18165"**
 NAVD 88 Ortho Height: **1145.800sft** Ellip. Ht: **1045.066sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3666063.276sft** Easting: **5016956.455sft**
 Mapping Angle: **0°14'27"** Combination Scale Factor: **0.9998972884**

IaRCS Zone 4 Northing: **8612992.107sft** Easting: **14954953.046sft**
 Mapping Angle: **1°08'29"** Combination Scale Factor: **0.9999951255**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
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 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
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Point Name: **8057**

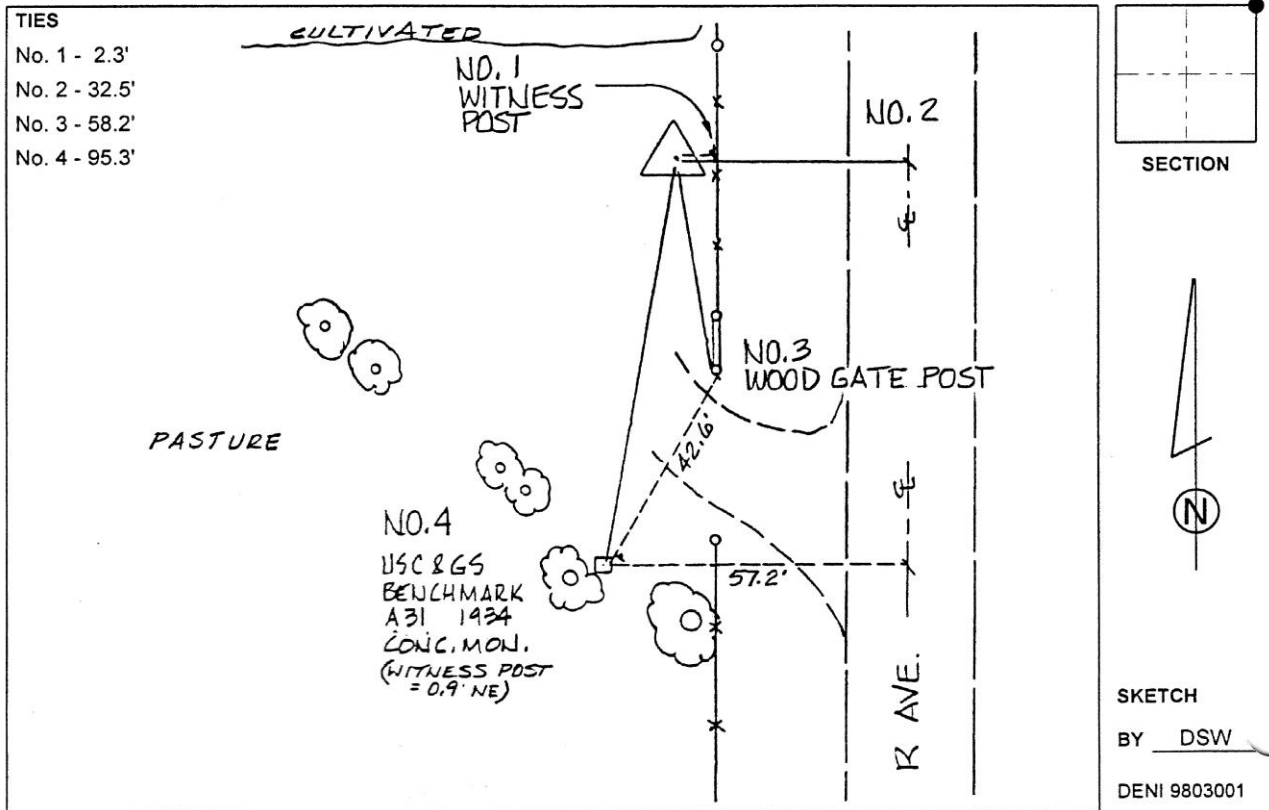
Designation: 892024 1 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°30'50.48053"** Longitude: **W93°08'41.27834"**
 NAVD 88 Ortho Height: **1140.070sft** Ellip. Ht: **1038.916sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3650566.798sft** Easting: **5017014.329sft**
 Mapping Angle: **0°14'27"** Combination Scale Factor: **0.9998992884**

IaRCS Zone 4 Northing: **8597496.951sft** Easting: **14955254.552sft**
 Mapping Angle: **1°08'29"** Combination Scale Factor: **0.9999953940**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
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Point Name: **8058**

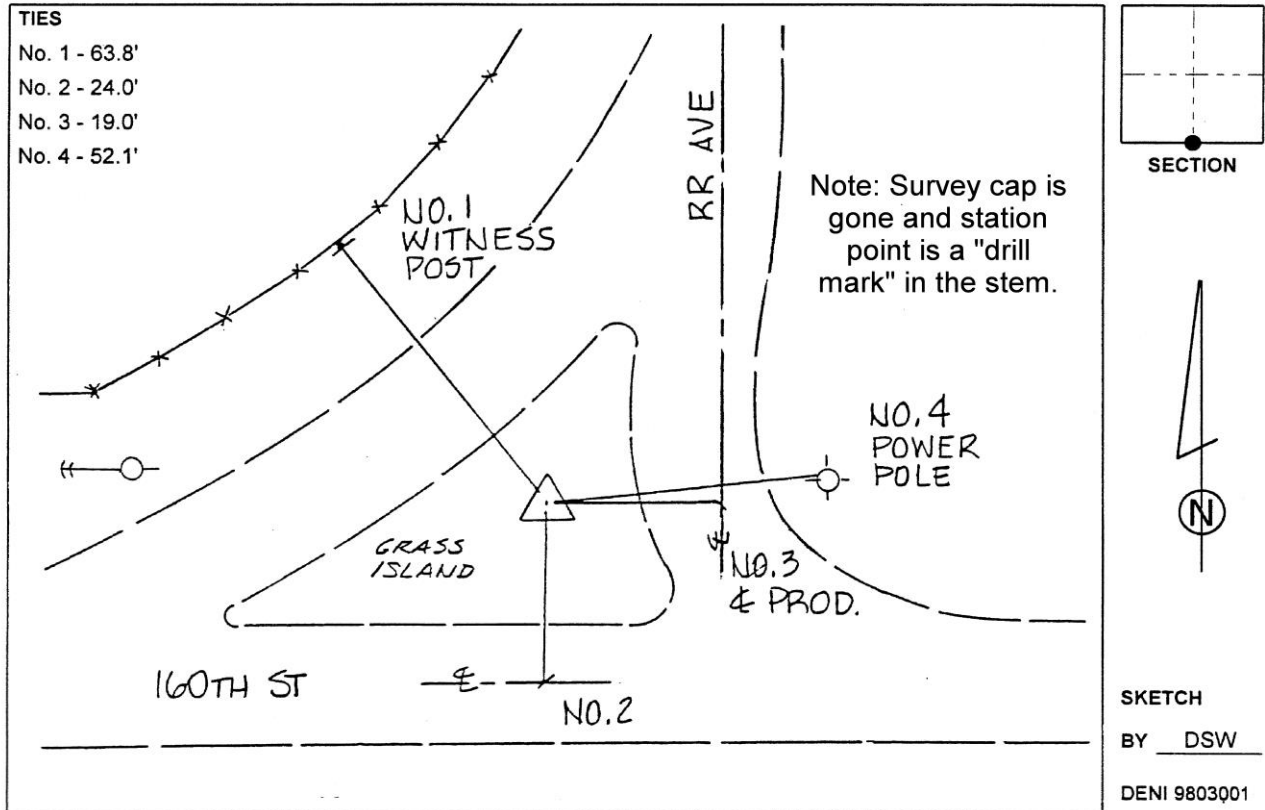
Designation: 891931 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°28'15.92112"** Longitude: **W93°08'03.84398"**
 NAVD 88 Ortho Height: **1078.069sft** Ellip. Ht: **976.345sft** Geoid12B

Iowa North Zone (1401) Northing: **3634932.927sft** Easting: **5019885.460sft**
 Mapping Angle: **0°14'52"** Combination Scale Factor: **0.9999045568**

IaRCS Zone 4 Northing: **8581908.662sft** Easting: **14958371.391sft**
 Mapping Angle: **1°08'55"** Combination Scale Factor: **0.9999989158**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
 US Survey Feet

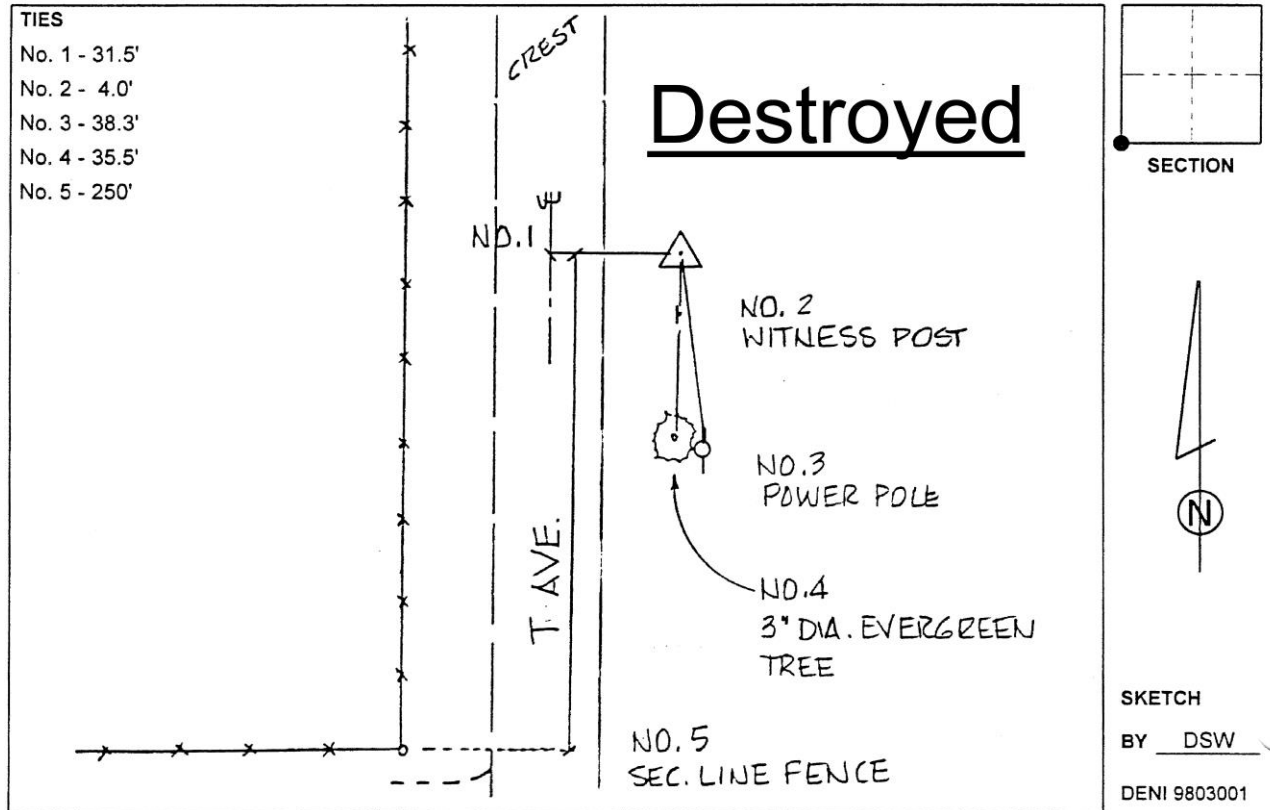
Point Name: **8059 (Destroyed)**

Designation: 881918 3 (Set by Deni Associates in 1998)

NAD 83(1996) Latitude: ~~N 42 25 36.91043~~ Longitude: ~~W 93 07 08.21167~~
 NAVD 88 Ortho Height: ~~1092.690~~sft Ellip. Ht: ~~990.615~~sft

Iowa North Zone (1401) Northing: ~~3618855.010~~sft Easting: ~~5024127.190~~sft
 Mapping Angle: ~~0 15 29.72~~ Combination Scale Factor: ~~0.9999541500~~

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
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Point Name: **8060**

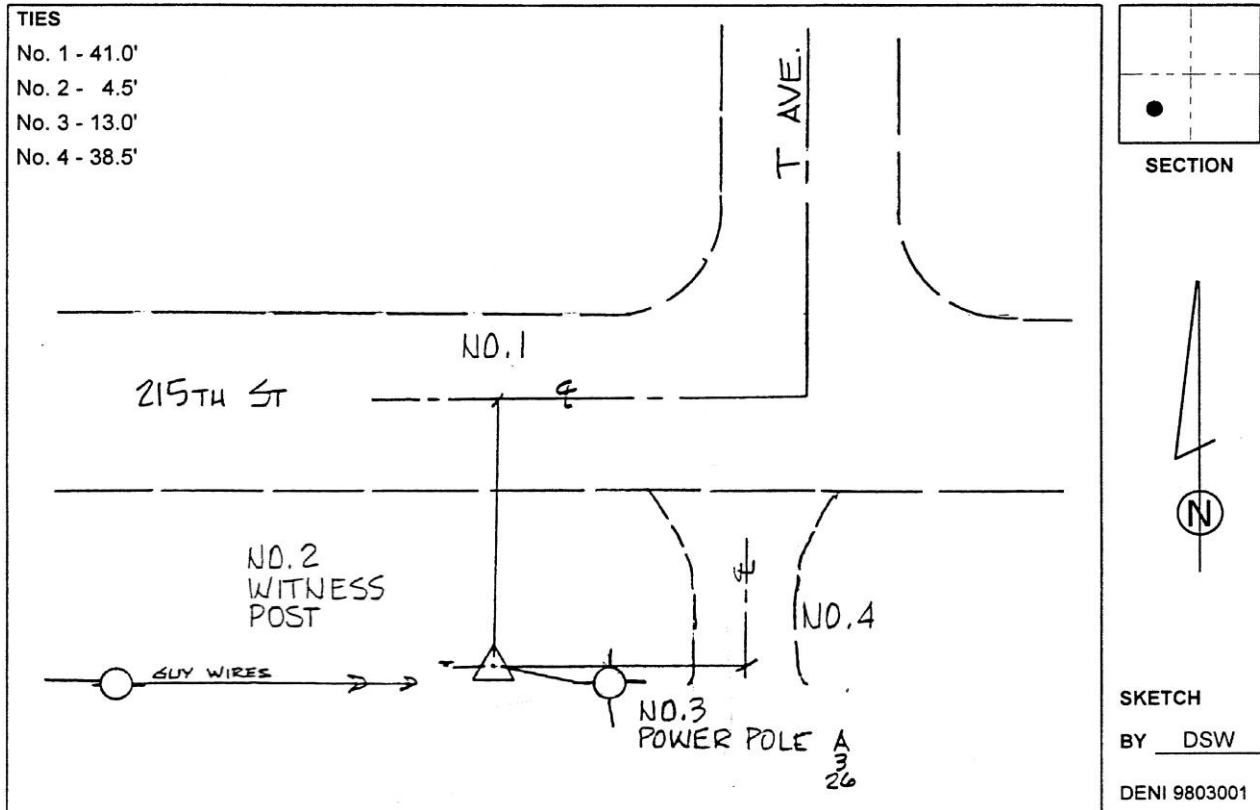
Designation: 881931 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°23'10.89195"** Longitude: **W93°06'53.02153"**
 NAVD 88 Ortho Height: **1041.222sft** Ellip. Ht: **938.746sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3604079.093sft** Easting: **5025333.725sft**
 Mapping Angle: **0°15'40"** Combination Scale Factor: **0.9999124851**

IaRCS Zone 4 Northing: **8551141.436sft** Easting: **14964304.546sft**
 Mapping Angle: **1°09'43"** Combination Scale Factor: **1.0000034004**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
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Point Name: **8061**

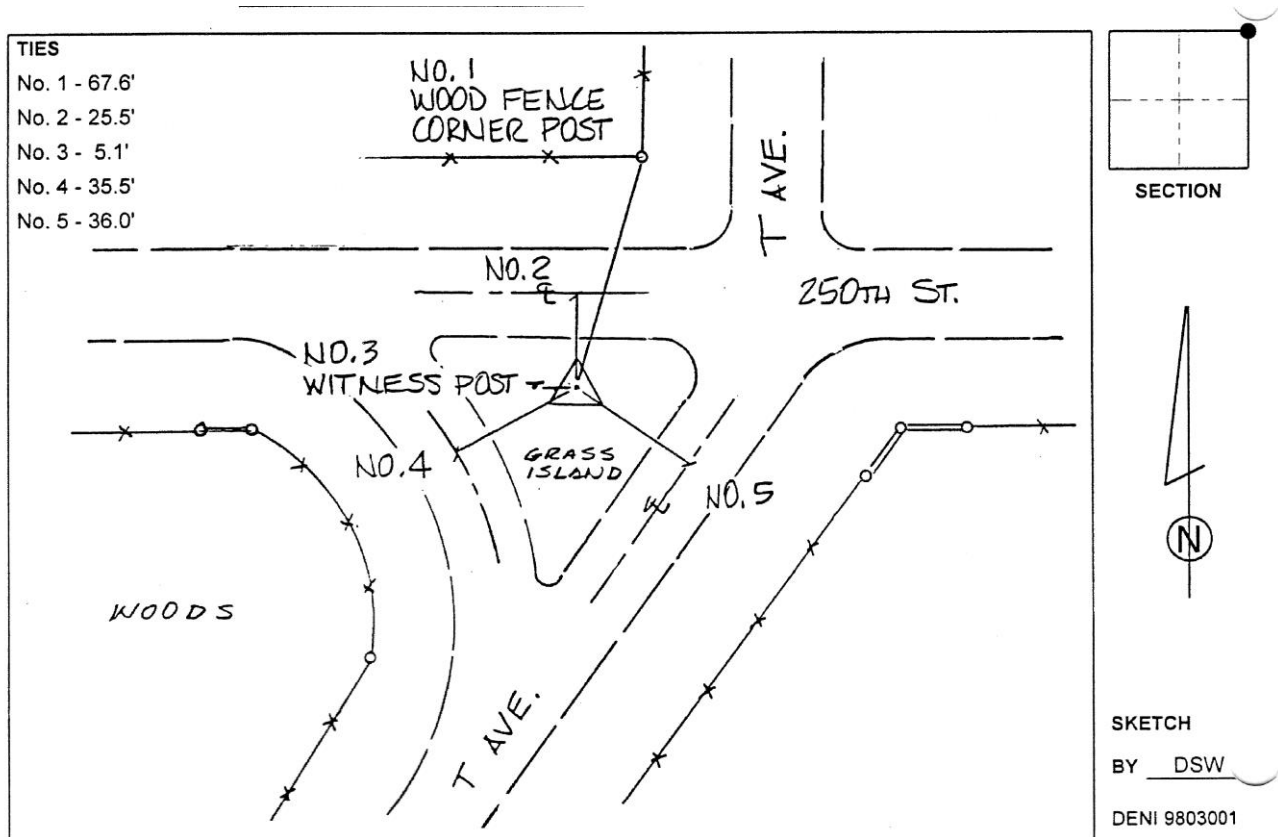
Designation: 872024 1 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°20'19.89126"** Longitude: **W93°07'06.27245"**
 NAVD 88 Ortho Height: **983.170sft** Ellip. Ht: **880.642sft** Geoid12B

Iowa North Zone (1401) Northing: **3586764.679sft** Easting: **5024417.470sft**
 Mapping Angle: **0°15'31"** Combination Scale Factor: **0.9999196485**

IaRCS Zone 4 Northing: **8533813.199sft** Easting: **14963660.520sft**
 Mapping Angle: **1°09'34"** Combination Scale Factor: **1.0000086355**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
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Point Name: **8062**

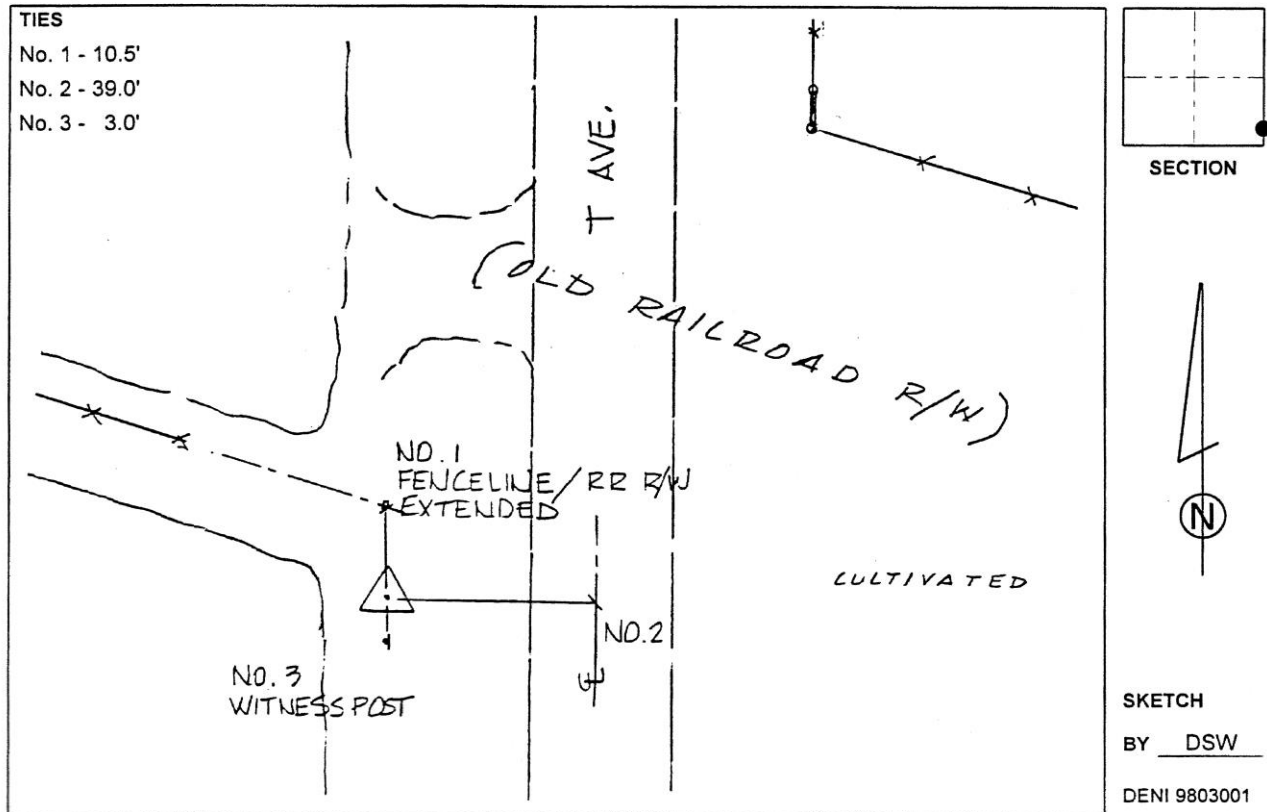
Designation: 872036 2 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°17'47.88780"** Longitude: **W93°07'05.58851"**
 NAVD 88 Ortho Height: **976.240sft** Ellip. Ht: **873.669sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3571378.093sft** Easting: **5024538.321sft**
 Mapping Angle: **0°15'32"** Combination Scale Factor: **0.9999244526**

IaRCS Zone 4 Northing: **8518429.058sft** Easting: **14964023.259sft**
 Mapping Angle: **1°09'34"** Combination Scale Factor: **1.0000117265**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
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Point Name: **8063**

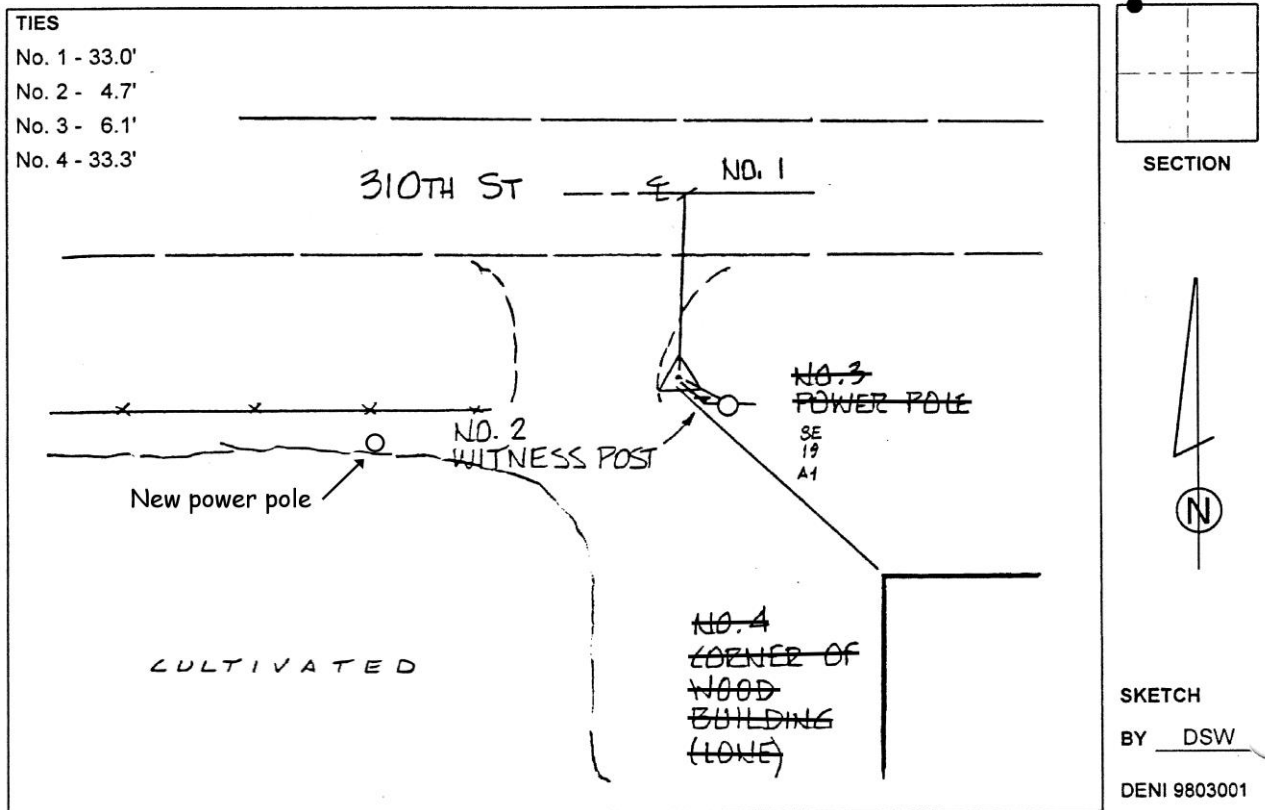
Designation: 861919 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°15'07.45545"** Longitude: **W93°06'56.80679"**
 NAVD 88 Ortho Height: **1055.920sft** Ellip. Ht: **953.314sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3555141.083sft** Easting: **5025272.081sft**
 Mapping Angle: **0°15'37"** Combination Scale Factor: **0.9999259478**

IaRCS Zone 4 Northing: **8502204.188sft** Easting: **14965012.251sft**
 Mapping Angle: **1°09'40"** Combination Scale Factor: **1.0000114147**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
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 Iowa State Plane North Zone (1401)
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Point Name: **8064**

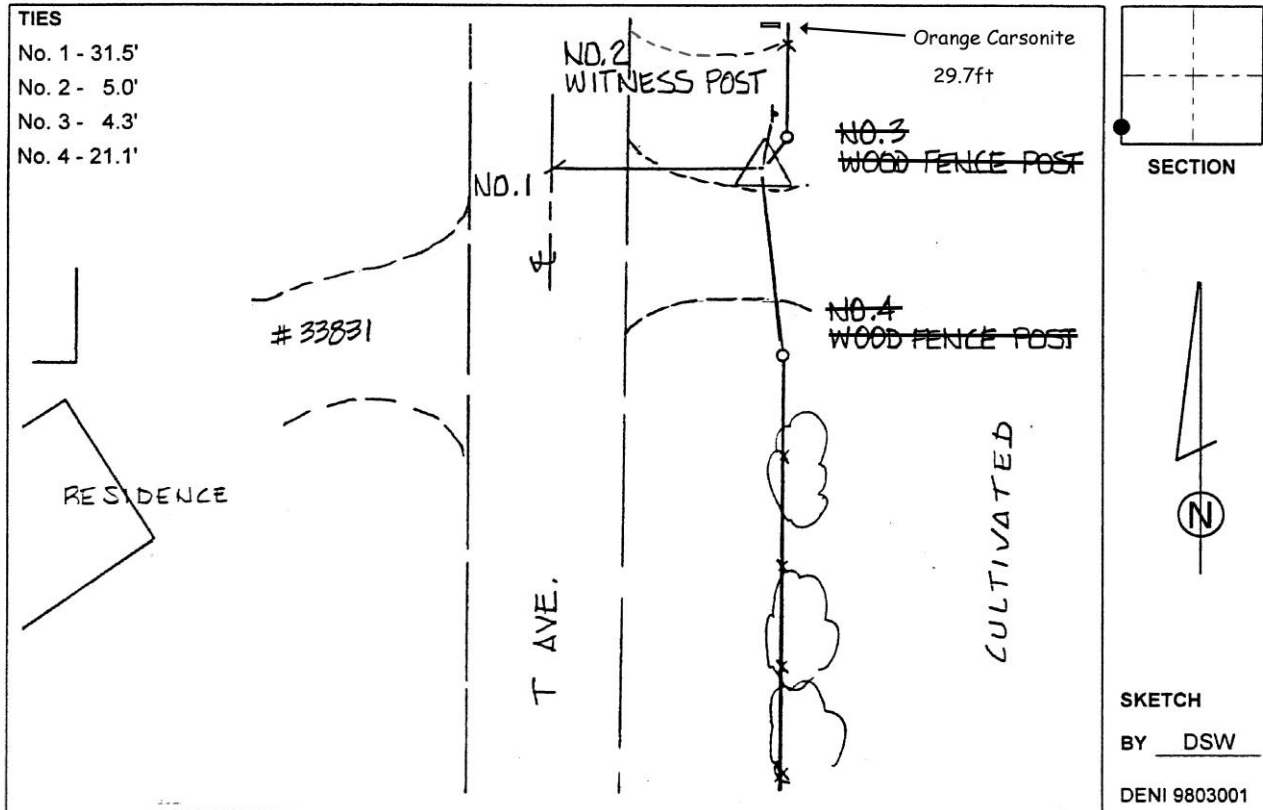
Designation: 861931 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°12'40.05950"** Longitude: **W93°07'04.09053"**
 NAVD 88 Ortho Height: **1004.670sft** Ellip. Ht: **902.065sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3540218.258sft** Easting: **5024791.771sft**
 Mapping Angle: **0°15'33"** Combination Scale Factor: **0.9999337965**

IaRCS Zone 4 Northing: **8487274.392sft** Easting: **14964766.559sft**
 Mapping Angle: **1°09'35"** Combination Scale Factor: **1.0000176048**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
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 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
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Point Name: **8065**

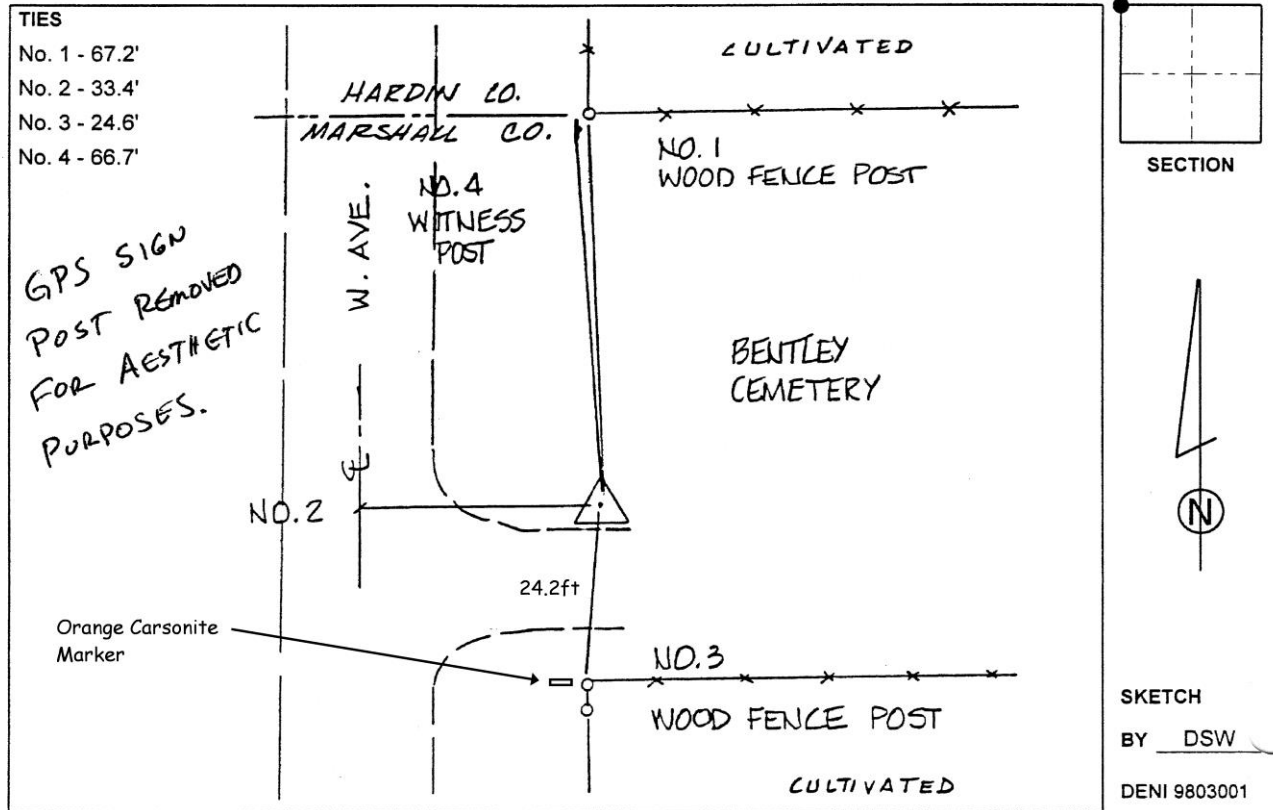
Designation: 851903 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°12'31.89234"** Longitude: **W93°03'35.38660"**
 NAVD 88 Ortho Height: **997.750sft** Ellip. Ht: **894.503sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3539467.920sft** Easting: **5040501.609sft**
 Mapping Angle: **0°17'54"** Combination Scale Factor: **0.9999344719**

IaRCS Zone 4 Northing: **8486771.042sft** Easting: **14980487.567sft**
 Mapping Angle: **1°11'56"** Combination Scale Factor: **1.0000181883**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
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Point Name: **8066**

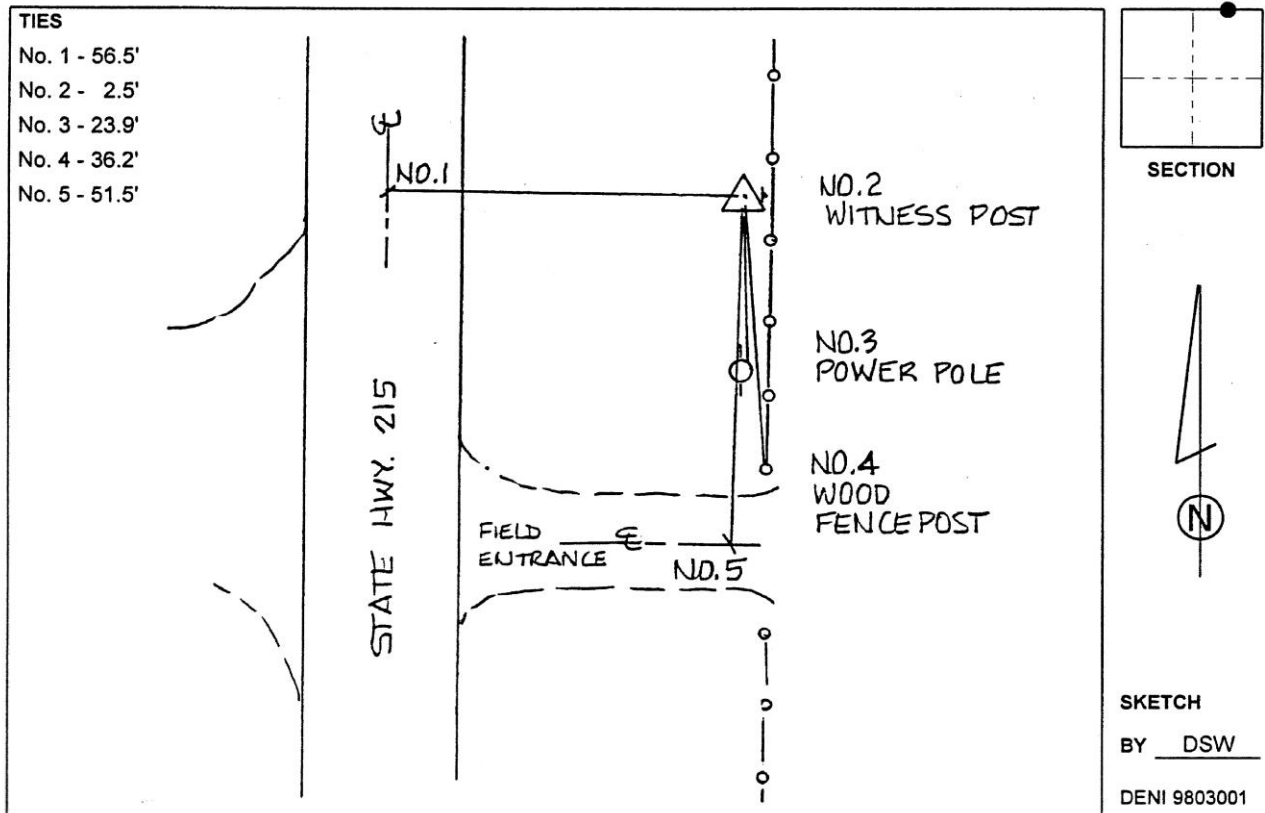
Designation: 861921 1 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°15'06.03000"** Longitude: **W93°03'53.18088"**
 NAVD 88 Ortho Height: **943.420sft** Ellip. Ht: **840.190sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3555063.719sft** Easting: **5039082.168sft**
 Mapping Angle: **0°17'42"** Combination Scale Factor: **0.9999314048**

IaRCS Zone 4 Northing: **8502343.921sft** Easting: **14978823.028sft**
 Mapping Angle: **1°11'44"** Combination Scale Factor: **1.0000168561**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



Hardin County, Iowa
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 Iowa State Plane North Zone (1401)
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9/30/18

Point Name: **8067**

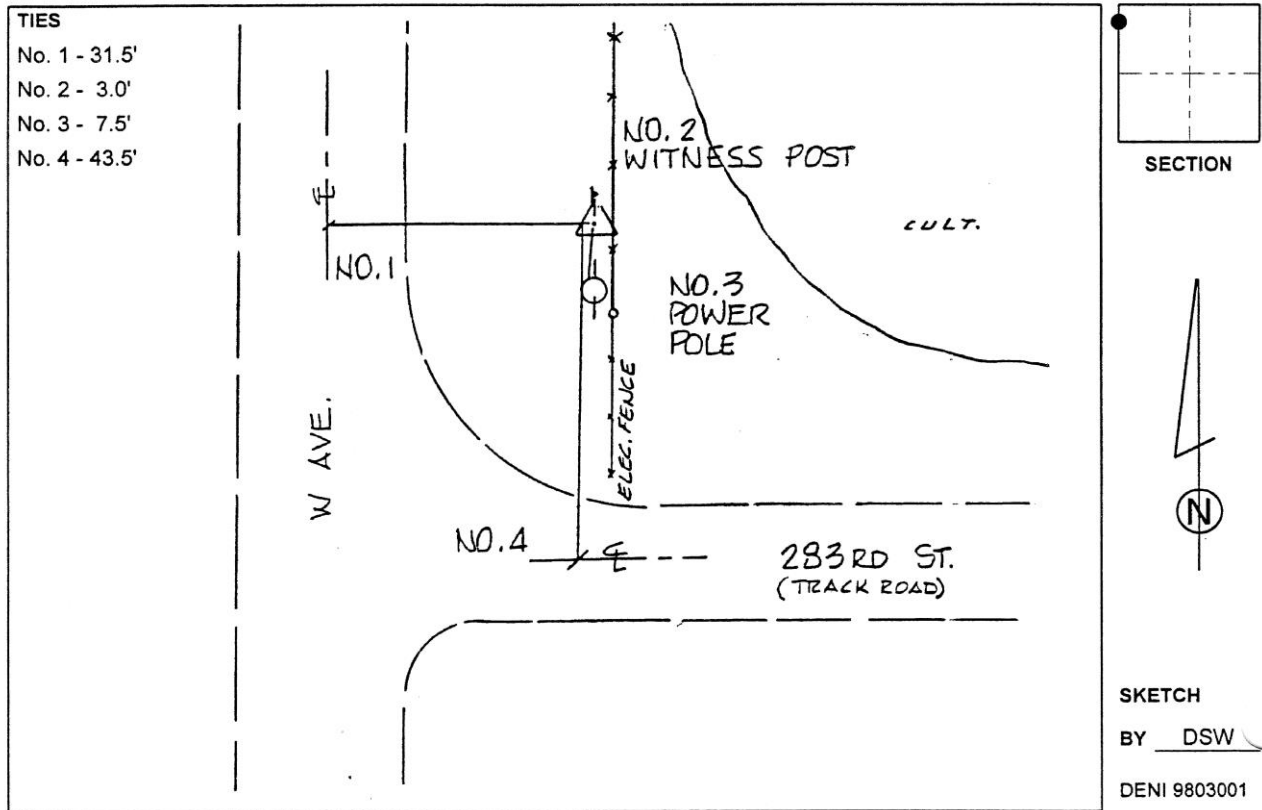
Designation: 861903 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°17'41.00594"** Longitude: **W93°03'37.01454"**
 NAVD 88 Ortho Height: **952.830sft** Ellip. Ht: **849.513sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3570757.626sft** Easting: **5040216.344sft**
 Mapping Angle: **0°17'53"** Combination Scale Factor: **0.9999258224**

IaRCS Zone 4 Northing: **8518055.073sft** Easting: **14979710.466sft**
 Mapping Angle: **1°11'55"** Combination Scale Factor: **1.0000130189**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



This document was prepared by Dan Corbin, Inc. on February 18th, 2019 for Hardin County, Iowa.

Hardin County, Iowa
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Point Name: **8068**

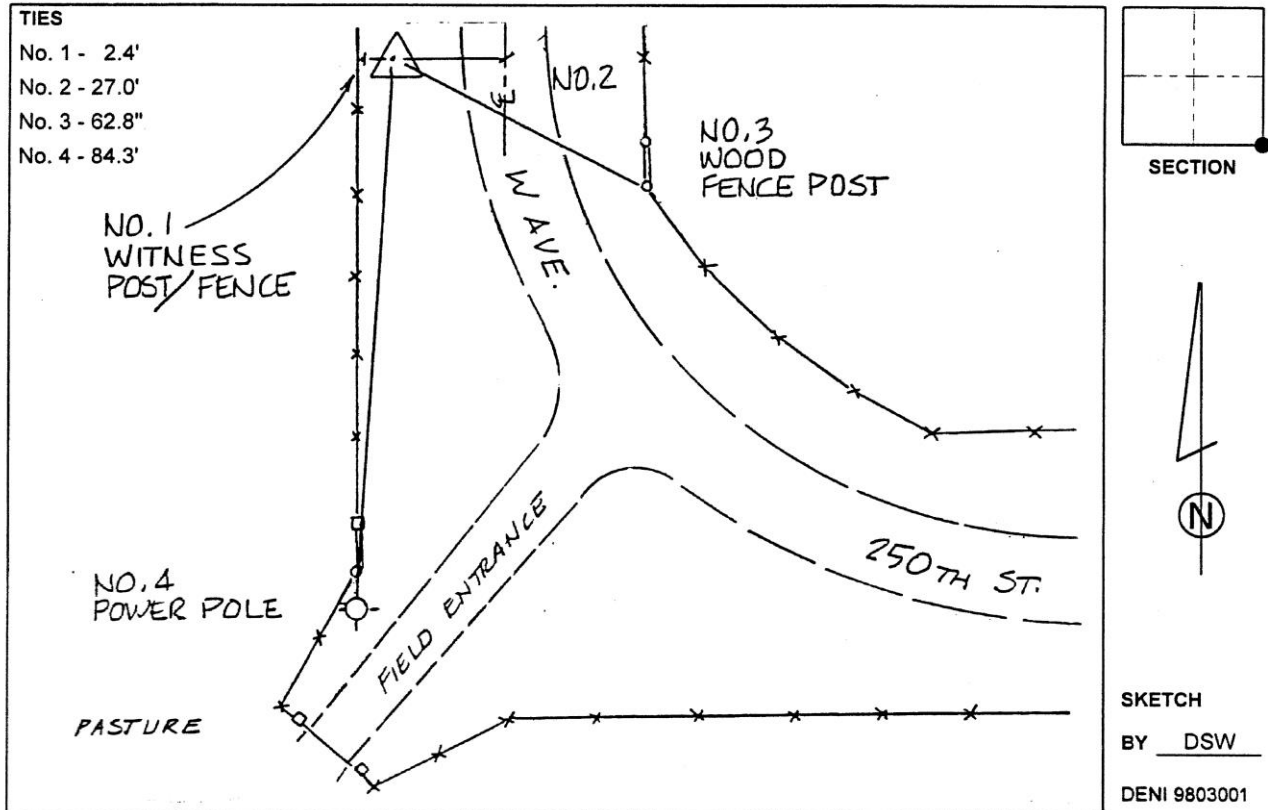
Designation: 871916 2 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°20'22.30543"** Longitude: **W93°03'37.95950"**
 NAVD 88 Ortho Height: **995.310sft** Ellip. Ht: **891.980sft** Geoid**12B**

Iowa North Zone (1401) Northing: **3587085.026sft** Easting: **5040060.451sft**
 Mapping Angle: **0°17'52"** Combination Scale Factor: **0.9999190399**

laRCS Zone 4 Northing: **8534379.444sft** Easting: **14979297.925sft**
 Mapping Angle: **1°11'54"** Combination Scale Factor: **1.0000080541**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
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Point Name: **8069**

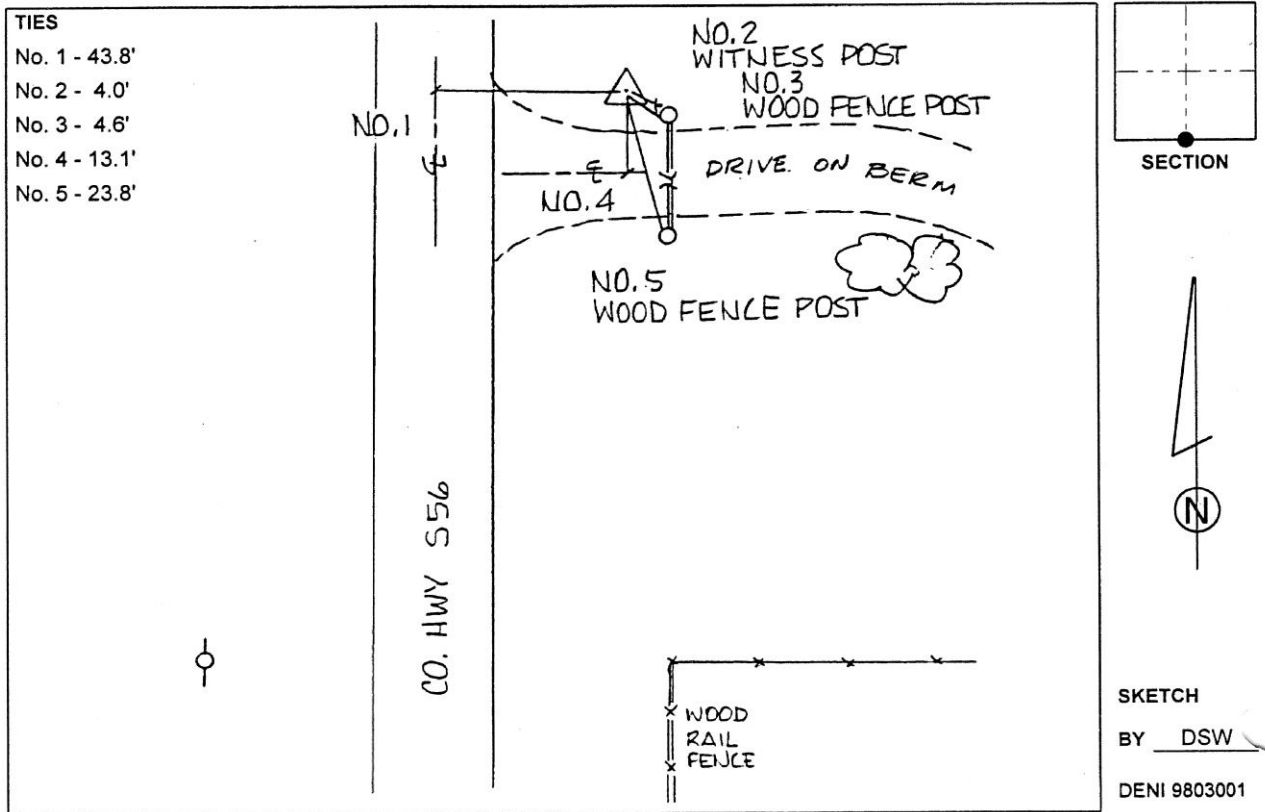
Designation: 881933 2 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°23'00.31075"** Longitude: **W93°04'13.83096"**
 NAVD 88 Ortho Height: **1058.390sft** Ellip. Ht: **955.223sft** Geoid12B

Iowa North Zone (1401) Northing: **3603065.558sft** Easting: **5037285.287sft**
 Mapping Angle: **0°17'28"** Combination Scale Factor: **0.9999119492**

IaRCS Zone 4 Northing: **8550315.814sft** Easting: **14976271.651sft**
 Mapping Angle: **1°11'30"** Combination Scale Factor: **1.0000027450**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
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Point Name: **8070**

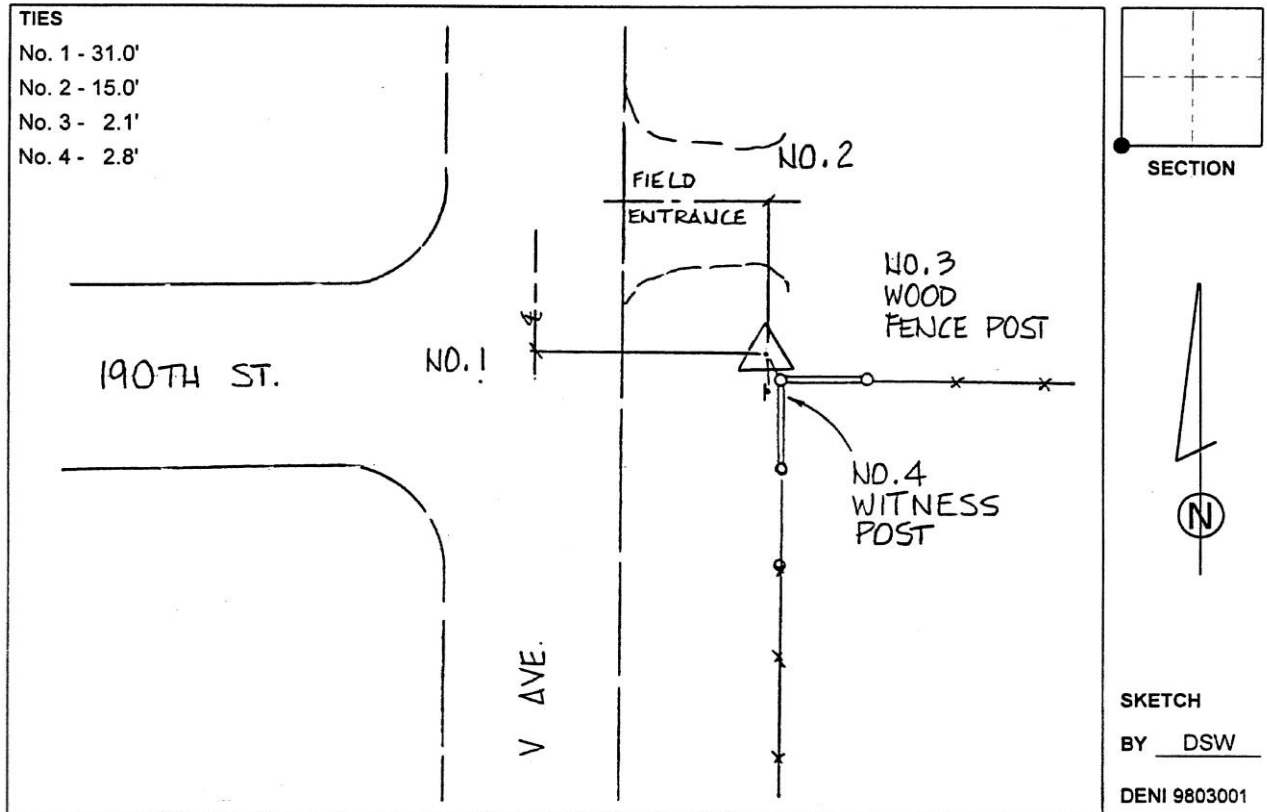
Designation: 881916 3 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°25'35.05679"** Longitude: **W93°04'50.56623"**
 NAVD 88 Ortho Height: **1112.480sft** Ellip. Ht: **1009.564sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3618716.237sft** Easting: **5034450.747sft**
 Mapping Angle: **0°17'03"** Combination Scale Factor: **0.9999059320**

IaRCS Zone 4 Northing: **8565921.436sft** Easting: **14973191.178sft**
 Mapping Angle: **1°11'05"** Combination Scale Factor: **0.9999984741**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8071**

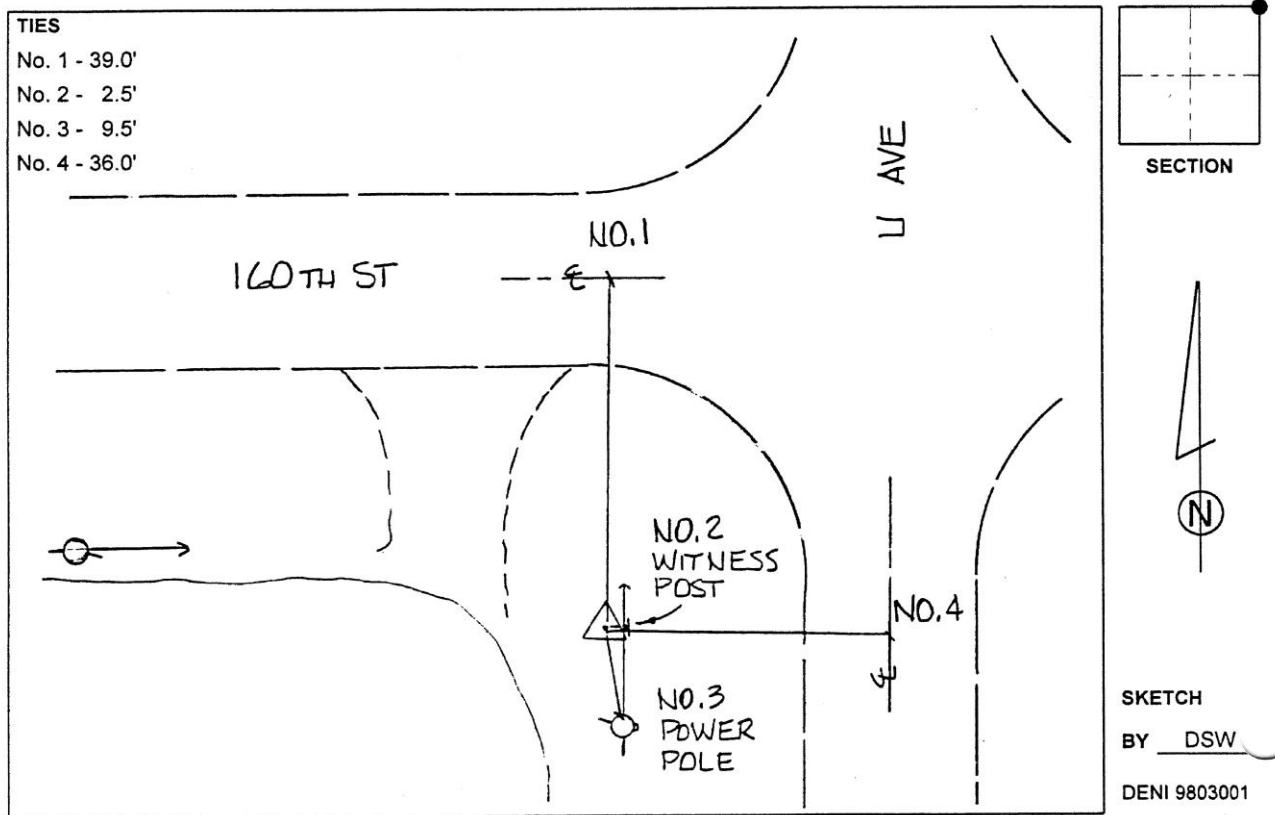
Designation: 881905 1 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°28'15.36334"** Longitude: **W93°05'08.68033"**
 NAVD 88 Ortho Height: **1152.680sft** Ellip. Ht: **1050.041sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3634937.012sft** Easting: **5033012.764sft**
 Mapping Angle: **0°16'51"** Combination Scale Factor: **0.9999010437**

IaRCS Zone 4 Northing: **8582119.118sft** Easting: **14971498.248sft**
 Mapping Angle: **1°10'53"** Combination Scale Factor: **0.9999953961**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Point Name: **8072**

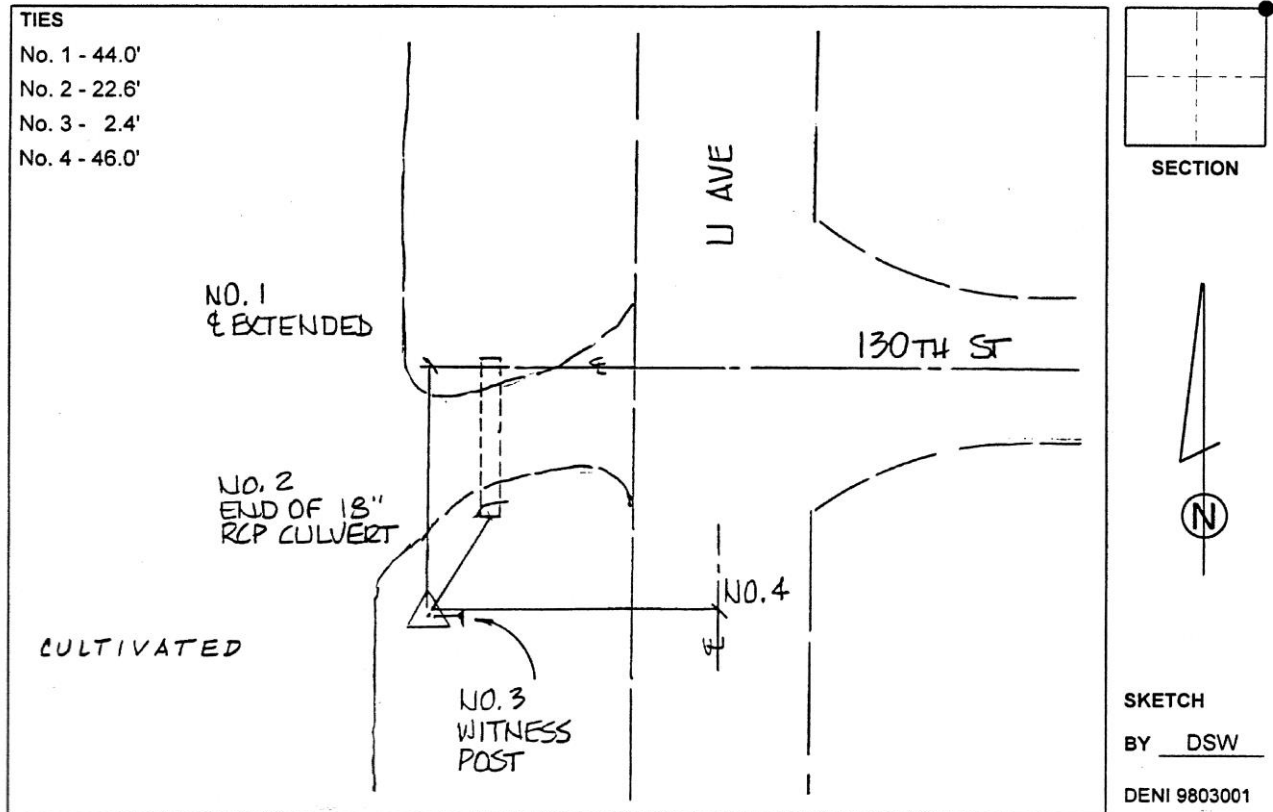
Designation: 891921 1 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°30'52.49518"** Longitude: **W93°05'09.42684"**
NAVD 88 Ortho Height: **1197.960sft** Ellip. Ht: **1095.610sft** Geoid12B

Iowa North Zone (1401) Northing: **3650842.922sft** Easting: **5032878.915sft**
Mapping Angle: **0°16'50"** Combination Scale Factor: **0.9998965526**

IaRCS Zone 4 Northing: **8598022.474sft** Easting: **14971114.361sft**
Mapping Angle: **1°10'53"** Combination Scale Factor: **0.9999926808**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
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9/30/18

Point Name: **8073**

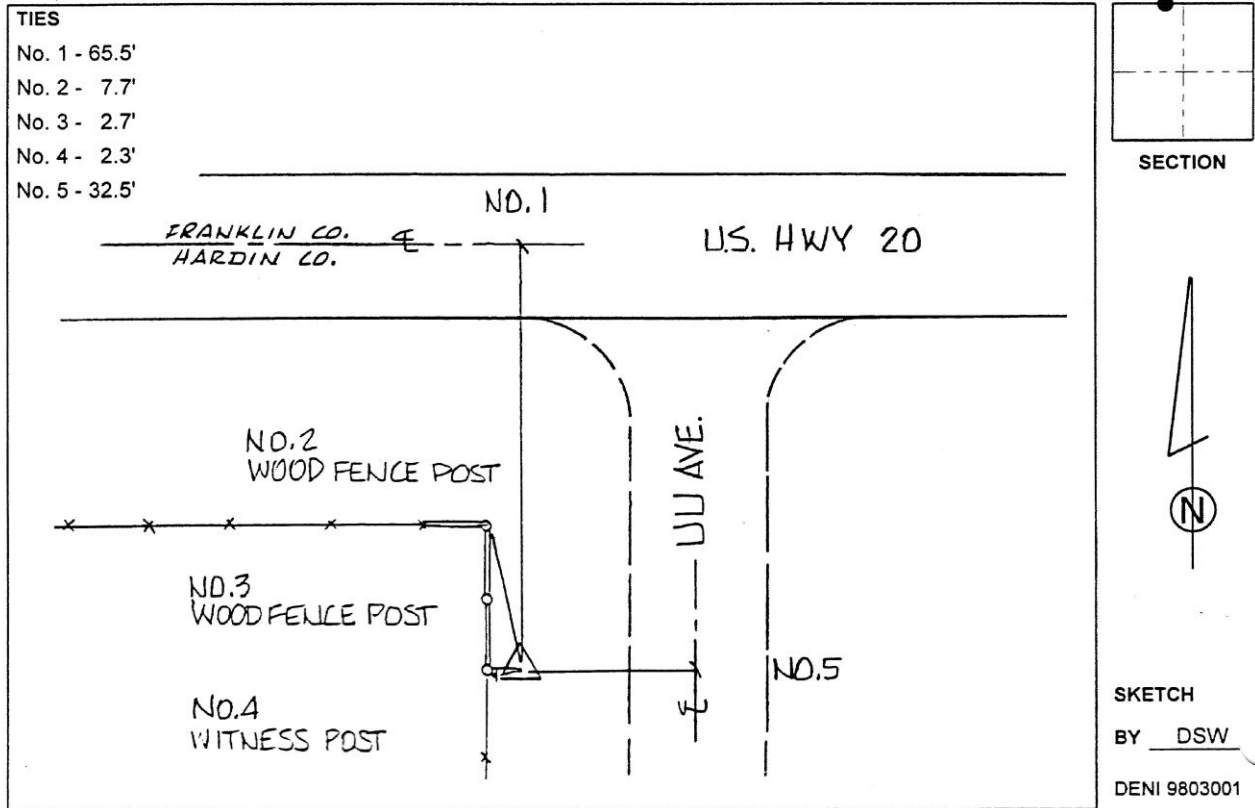
Designation: 891903 4 (Set by Deni Associates in 1998)

NAD 83(NA2011) Latitude: **N42°33'23.45799"** Longitude: **W93°04'33.82863"**
 NAVD 88 Ortho Height: **1121.920sft** Ellip. Ht: **1019.724sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3666137.914sft** Easting: **5035468.206sft**
 Mapping Angle: **0°17'14"** Combination Scale Factor: **0.9998985006**

IaRCS Zone 4 Northing: **8613357.763sft** Easting: **14973463.147sft**
 Mapping Angle: **1°11'17"** Combination Scale Factor: **0.9999963366**

Monument Type: 3-1/4" aluminum disk set in the top of a 12" dia. poured-in-place concrete monument.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
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Point Name: **8074**

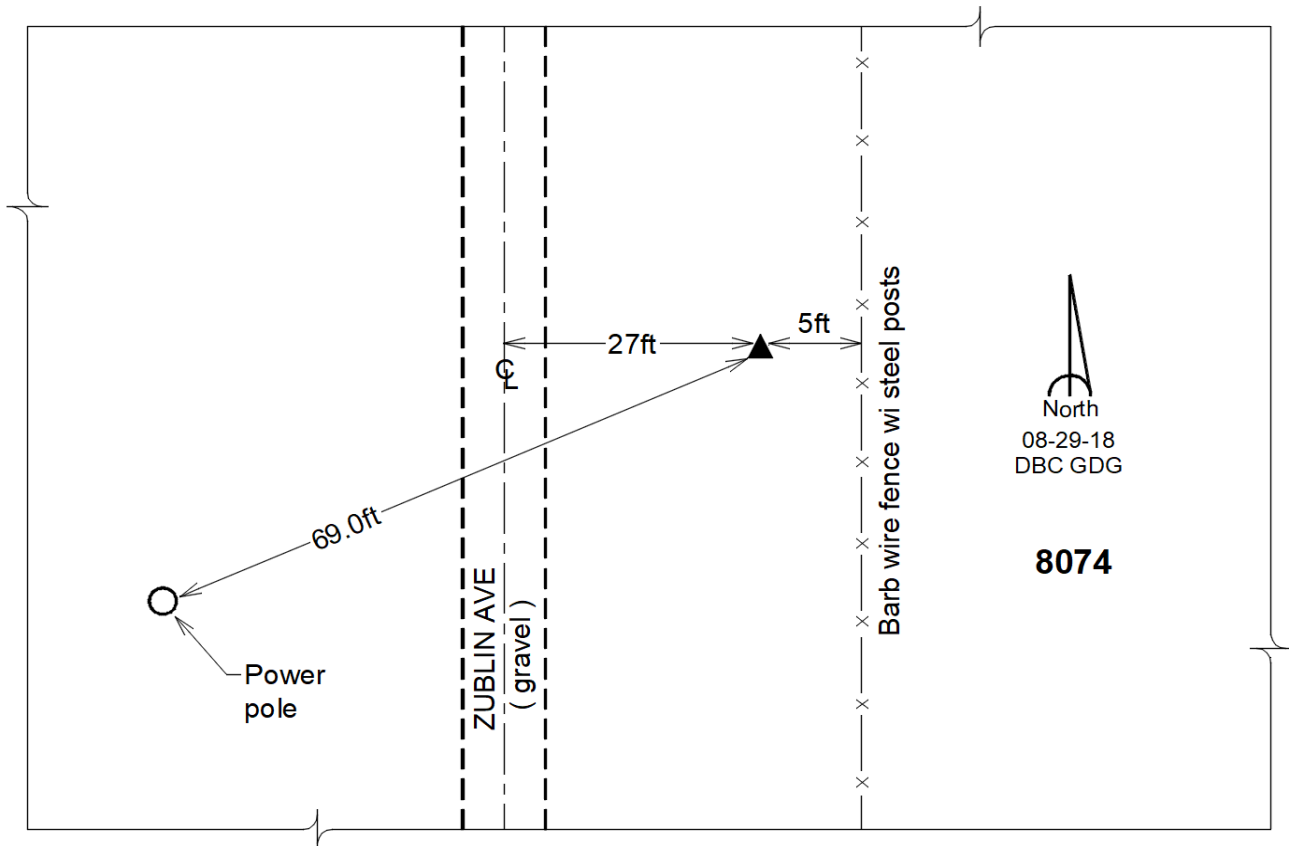
Designation: Hardin County 8074 (Set by DCI in 2018)

NAD 83(NA2011) Latitude: **N42°15'12.26715"** Longitude: **W93°27'46.76724"**
 NAVD 88 Ortho Height: **1186.806sft** Ellip. Ht: **1092.072sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3555393.967sft** Easting: **4931269.497sft**
 Mapping Angle: **0°01'30"** Combination Scale Factor: **0.9999191478**

IaRCS Zone 4 Northing: **8500978.774sft** Easting: **14871009.277sft**
 Mapping Angle: **0°55'35"** Combination Scale Factor: **1.0000046682**

Monument Type: Berntsen "Top Security" aluminum rod monument with a 2-1/2" dia. survey cap and permanent magnet encased in a white PVC pipe with a NGS style aluminum access cover.



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Hardin County, Iowa
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Iowa State Plane North Zone (1401)
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Point Name: **8075**

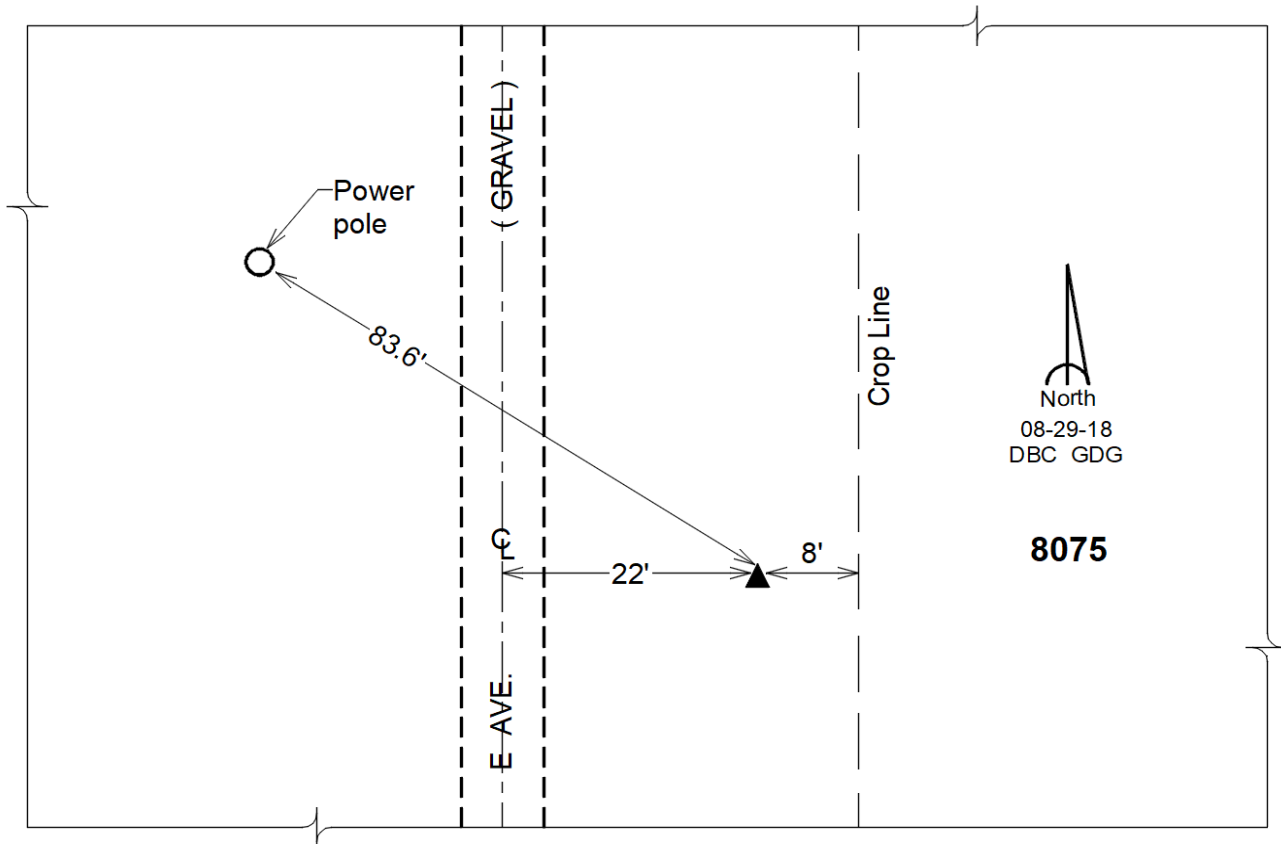
Designation: Hardin County 8075 (Set by DCI in 2018)

NAD 83(NA2011) Latitude: **N42°23'04.58734"** Longitude: **W93°24'18.74836"**
NAVD 88 Ortho Height: **1143.408sft** Ellip. Ht: **1048.527sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3603218.074sft** Easting: **4946859.517sft**
Mapping Angle: **0°03'51"** Combination Scale Factor: **0.9999073876**

IaRCS Zone 4 Northing: **8549046.420sft** Easting: **14885846.449sft**
Mapping Angle: **0°57'56"** Combination Scale Factor: **0.9999982313**

Monument Type: Berntsen "Top Security" aluminum rod monument with a 2-1/2" dia. survey cap and permanent magnet encased in a white PVC pipe with a NGS style aluminum access cover.



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Hardin County, Iowa
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Iowa State Plane North Zone (1401)
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Point Name: **8076**

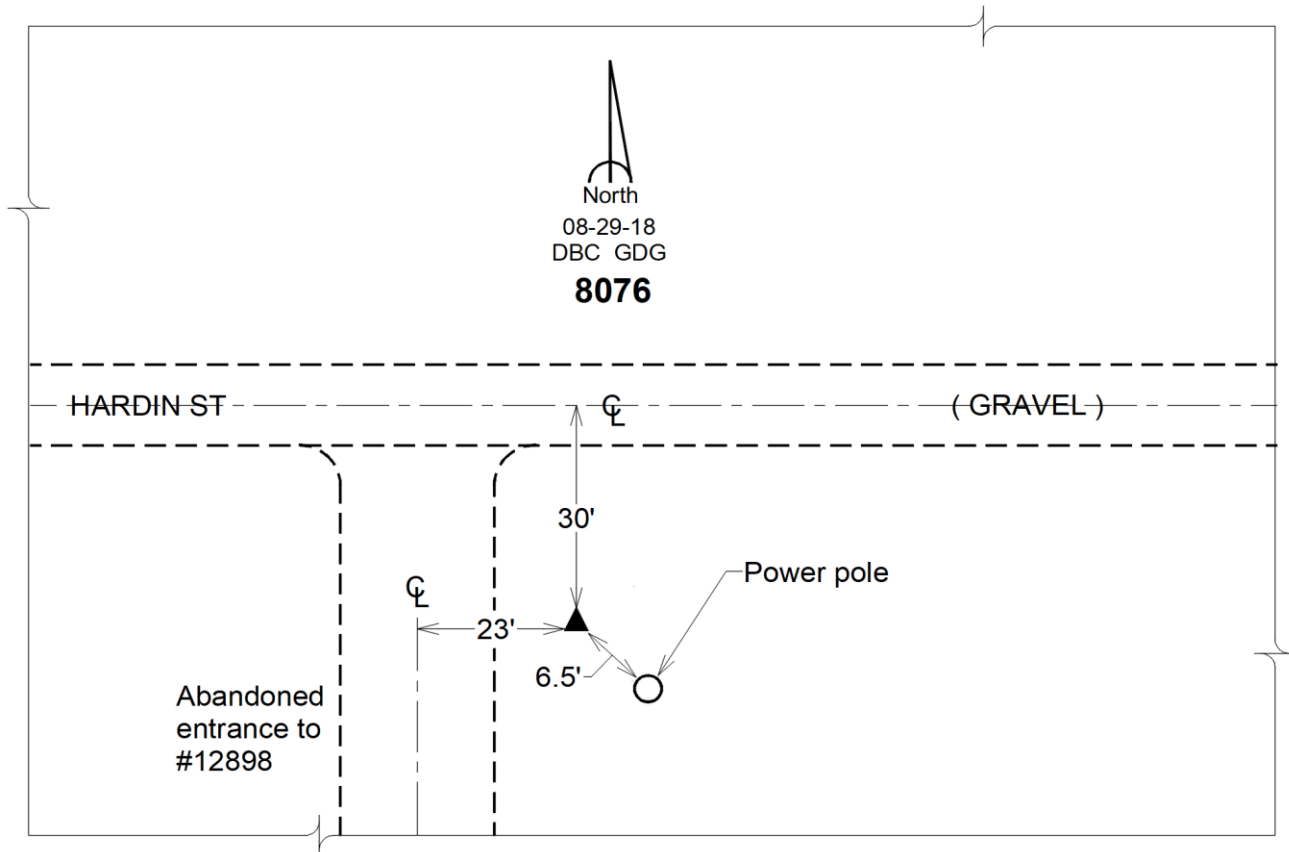
Designation: Hardin County 8076 (Set by DCI in 2018)

NAD 83(NA2011) Latitude: **N42°33'26.87147"** Longitude: **W93°26'30.43947"**
NAVD 88 Ortho Height: **1152.832sft** Ellip. Ht: **1061.166sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3666202.477sft** Easting: **4936933.273sft**
Mapping Angle: **0°02'22"** Combination Scale Factor: **0.9998964881**

IaRCS Zone 4 Northing: **8611872.832sft** Easting: **14874929.738sft**
Mapping Angle: **0°56'27"** Combination Scale Factor: **0.9999943625**

Monument Type: Berntsen "Top Security" aluminum rod monument with a 2-1/2" dia. survey cap and permanent magnet encased in a white PVC pipe with a NGS style aluminum access cover.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
 US Survey Feet
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Point Name: **8077**

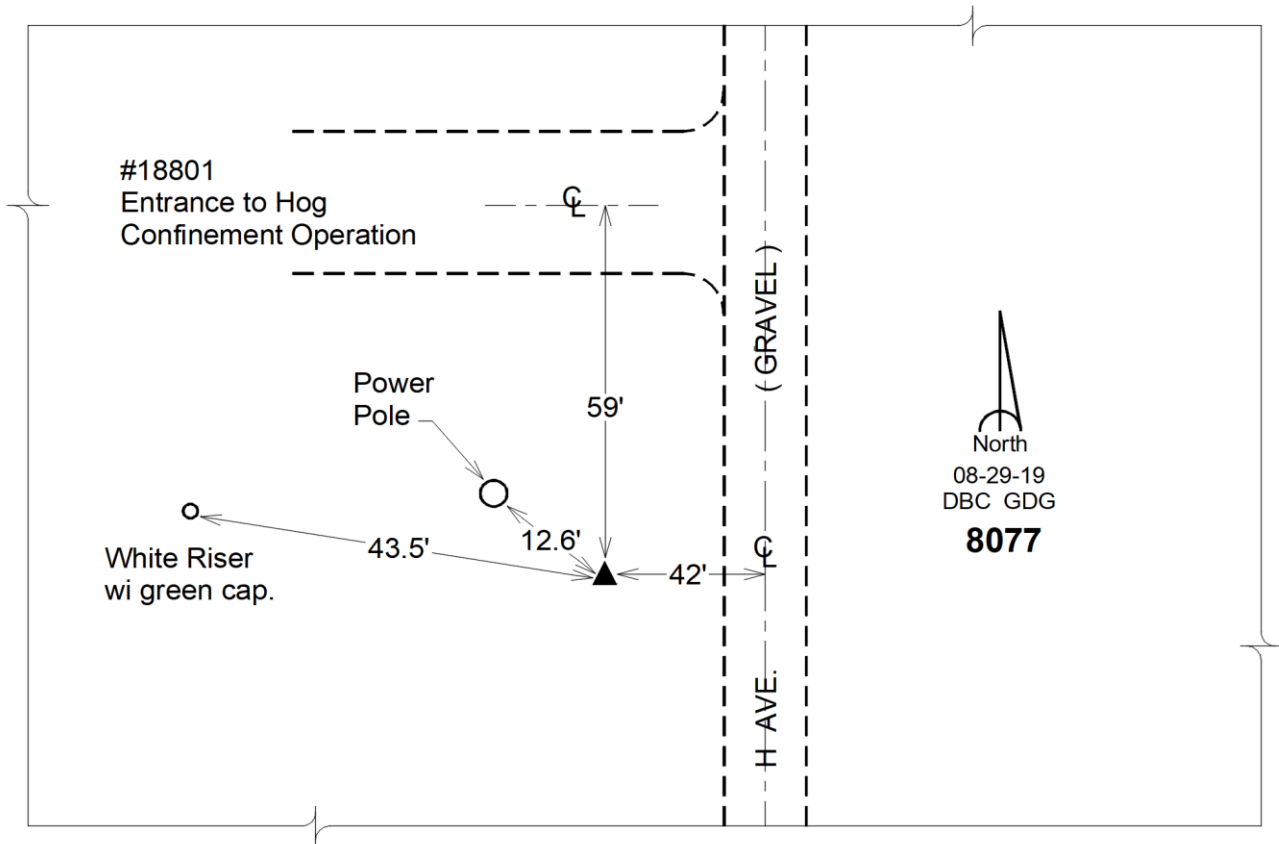
Designation: Hardin County 8077 (Set by DCI in 2018)

NAD 83(NA2011) Latitude: **N42°25'44.97006"** Longitude: **W93°20'48.66223"**
 NAVD 88 Ortho Height: **1135.835sft** Ellip. Ht: **1039.650sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3619476.475sft** Easting: **4962596.183sft**
 Mapping Angle: **0°06'14"** Combination Scale Factor: **0.9999042940**

IaRCS Zone 4 Northing: **8565551.819sft** Easting: **14901326.888sft**
 Mapping Angle: **1°00'18"** Combination Scale Factor: **0.9999969478**

Monument Type: Berntsen "Top Security" aluminum rod monument with a 2-1/2" dia. survey cap and permanent magnet encased in a white PVC pipe with a NGS style aluminum access cover.



This document was prepared by Dan Corbin, Inc. on February 18th, 2019 for Hardin County, Iowa.

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 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
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Point Name: **8078**

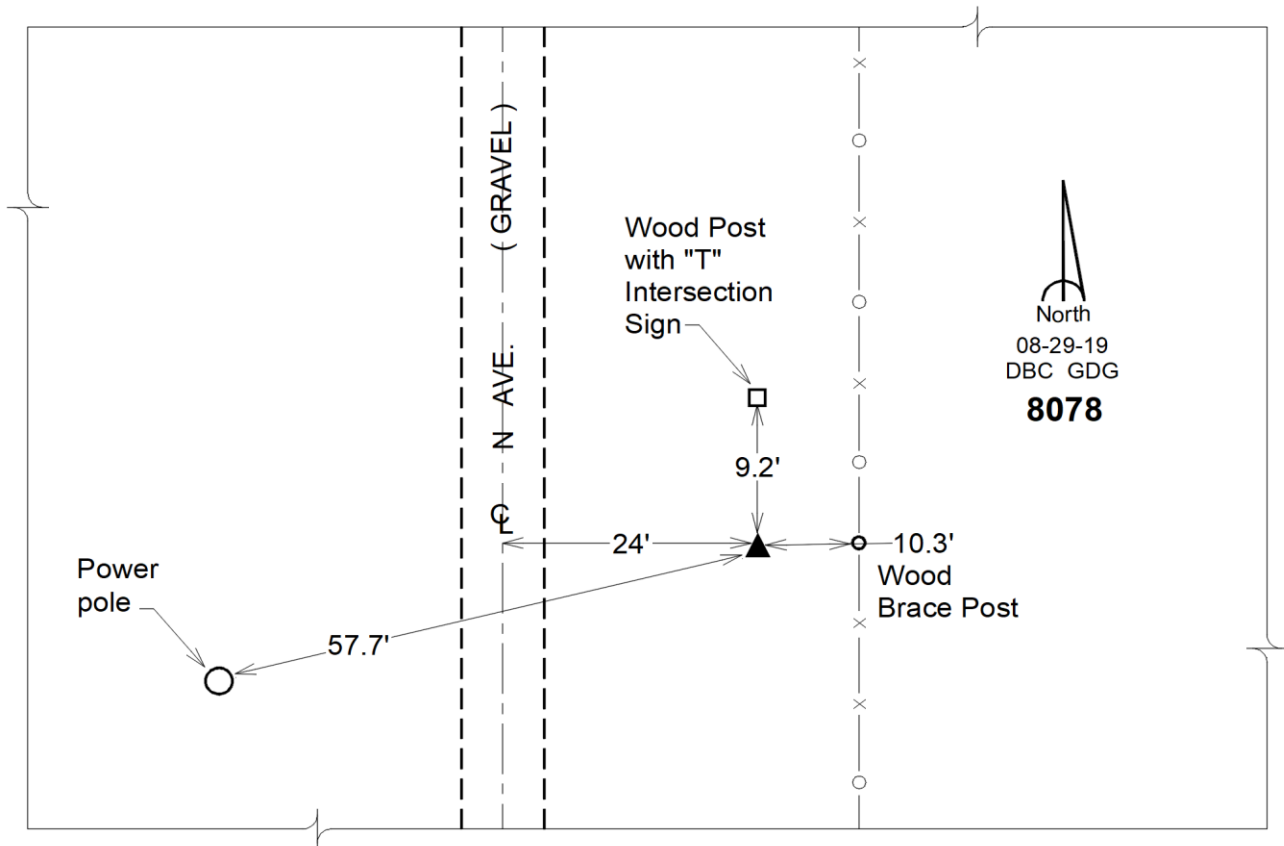
Designation: Hardin County 8078 (Set by DCI in 2018)

NAD 83(NA2011) Latitude: **N42°22'53.17701"** Longitude: **W93°13'54.65461"**
 NAVD 88 Ortho Height: **1128.073sft** Ellip. Ht: **1028.170sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3602163.569sft** Easting: **4993698.718sft**
 Mapping Angle: **0°10'54"** Combination Scale Factor: **0.9999086337**

IaRCS Zone 4 Northing: **8548728.589sft** Easting: **14932700.693sft**
 Mapping Angle: **1°04'57"** Combination Scale Factor: **0.9999993487**

Monument Type: Berntsen "Top Security" aluminum rod monument with a 2-1/2" dia. survey cap and permanent magnet encased in a white PVC pipe with a NGS style aluminum access cover.



This document was prepared by Dan Corbin, Inc. on February 18th, 2019 for Hardin County, Iowa.

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 Iowa State Plane North Zone (1401)
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Point Name: **8079**

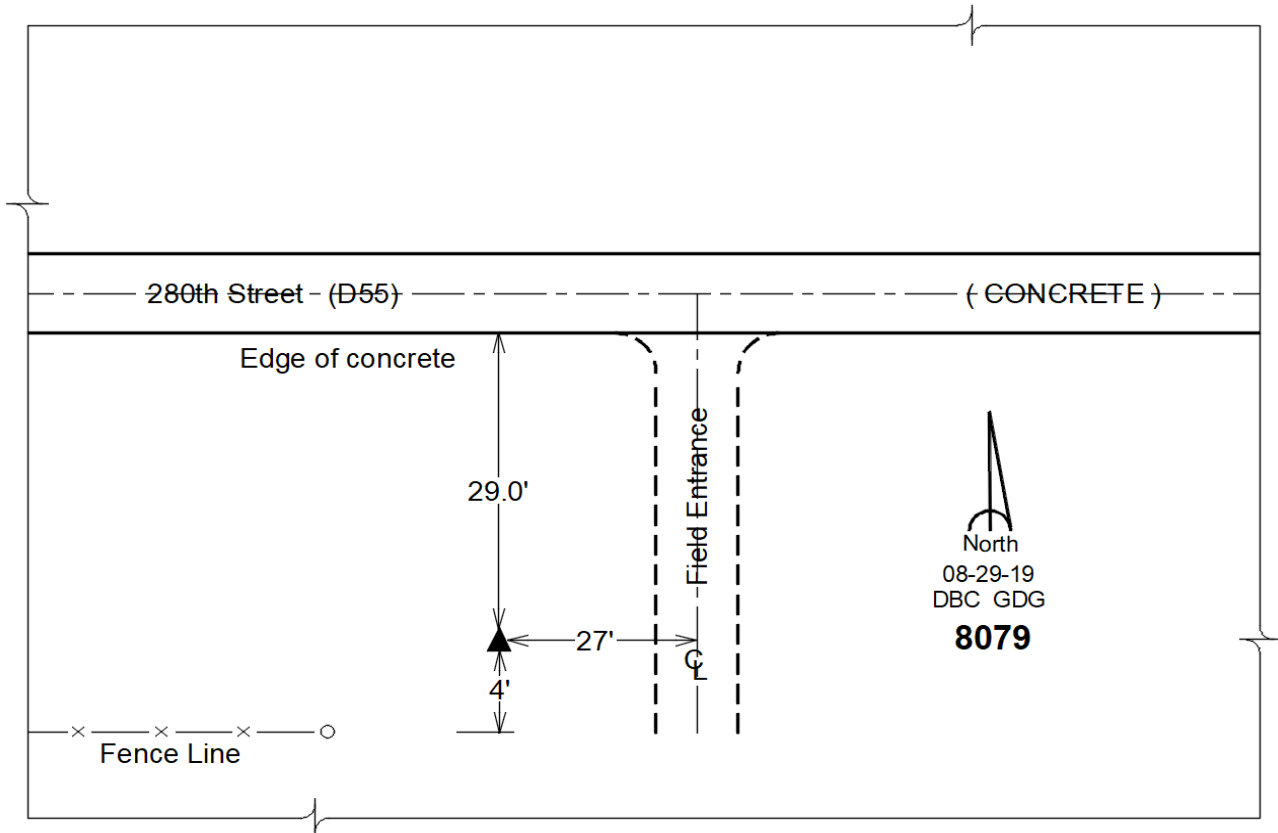
Designation: Hardin County 8079 (Set by DCI in 2018)

NAD 83(NA2011) Latitude: **N42°17'44.08131"** Longitude: **W93°13'41.12992"**
 NAVD 88 Ortho Height: **1120.222sft** Ellip. Ht: **1019.705sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3570877.849sft** Easting: **4994814.374sft**
 Mapping Angle: **0°11'03"** Combination Scale Factor: **0.9999175913**

IaRCS Zone 4 Northing: **8517461.496sft** Easting: **14934308.257sft**
 Mapping Angle: **1°05'07"** Combination Scale Factor: **1.0000048217**

Monument Type: Berntsen "Top Security" aluminum rod monument with a 2-1/2" dia. survey cap and permanent magnet encased in a white PVC pipe with a NGS style aluminum access cover.



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Iowa State Plane North Zone (1401)
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Point Name: **8080**

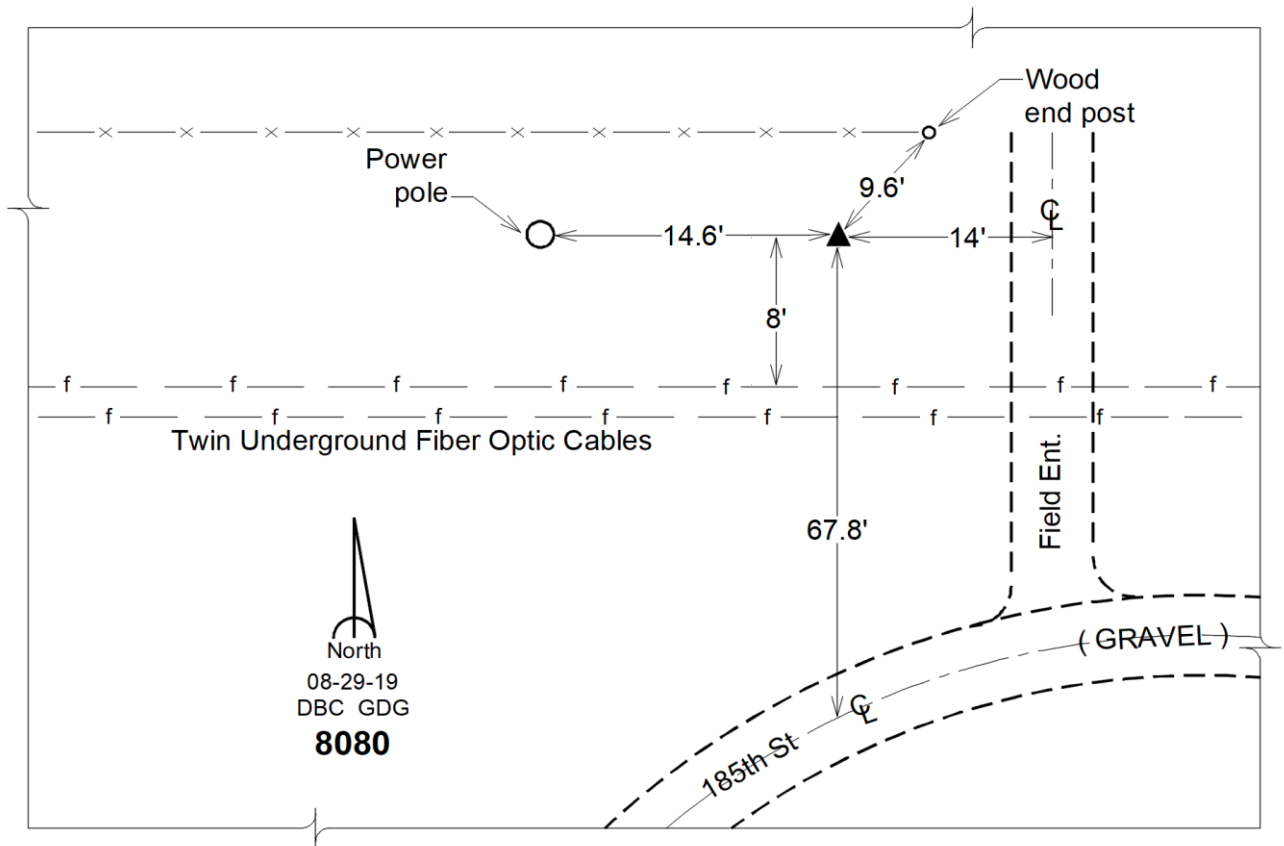
Designation: Hardin County 8080 (Set by DCI in 2018)

NAD 83(NA2011) Latitude: **N42°26'01.64278"** Longitude: **W93°08'37.42080"**
NAVD 88 Ortho Height: **1117.722sft** Ellip. Ht: **1015.993sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3621329.442sft** Easting: **5017426.442sft**
Mapping Angle: **0°14'29"** Combination Scale Factor: **0.9999050934**

IaRCS Zone 4 Northing: **8568266.925sft** Easting: **14956126.317sft**
Mapping Angle: **1°08'32"** Combination Scale Factor: **0.9999979356**

Monument Type: Berntsen "Top Security" aluminum rod monument with a 2-1/2" dia. survey cap and permanent magnet encased in a white PVC pipe with a NGS style aluminum access cover.



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Hardin County, Iowa
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
Iowa State Plane North Zone (1401)
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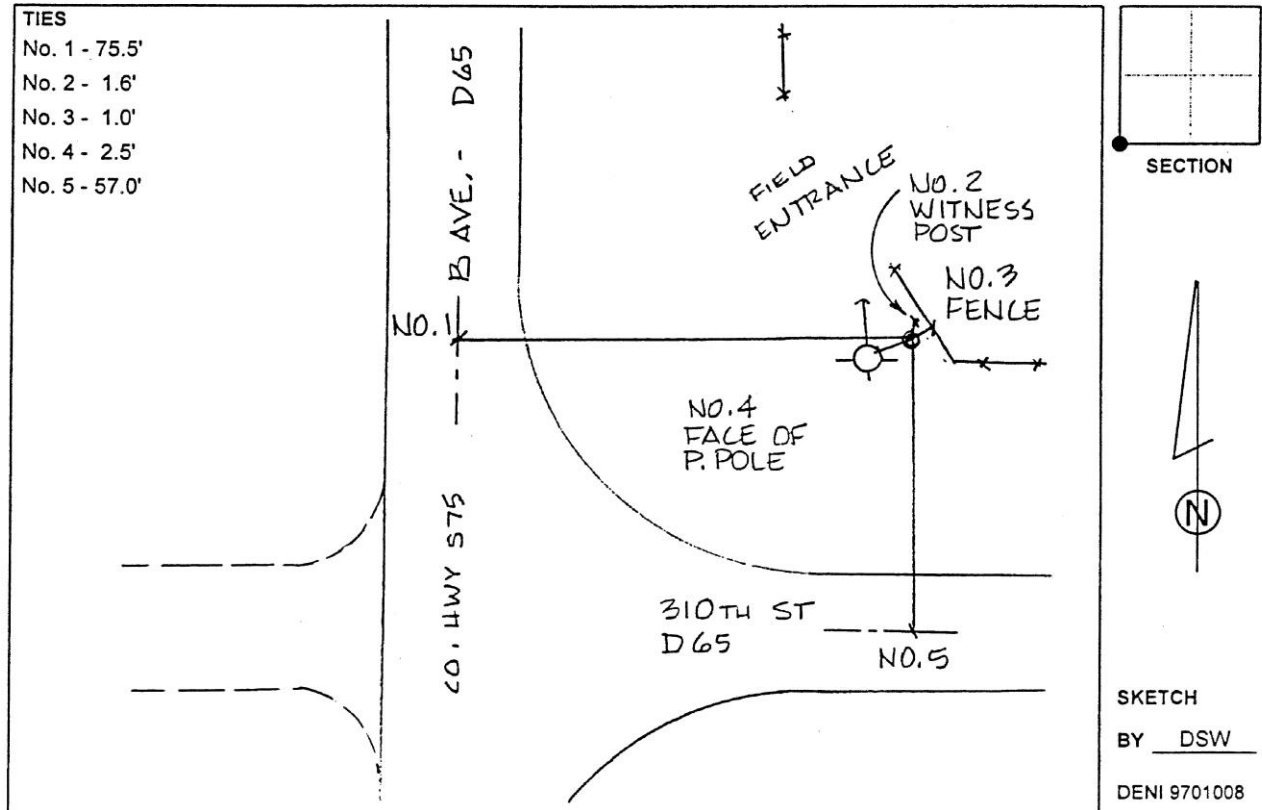
Point Name: **9709**
Designation: USGS: 16 LAP

NAD 83(NA2011) Latitude: **N42°15'10.16990"** Longitude: **W93°00'05.71892"**
NAVD 88 Ortho Height: **1032.540sft** Ellip. Ht: **928.740sft** Geoid12B

Iowa North Zone (1401) Northing: **3555577.243sft** Easting: **5056185.720sft**
Mapping Angle: **0°20'16"** Combination Scale Factor: **0.9999270277**

IaRCS Zone 4 Northing: **8503126.265sft** Easting: **14995917.858sft**
Mapping Angle: **1°14'18"** Combination Scale Factor: **1.0000125252**

Monument Type: Standard USGS disk on copper rod in concrete pipe sleeve, Sleeve projects 3" above ground.



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 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
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Point Name: **9785**

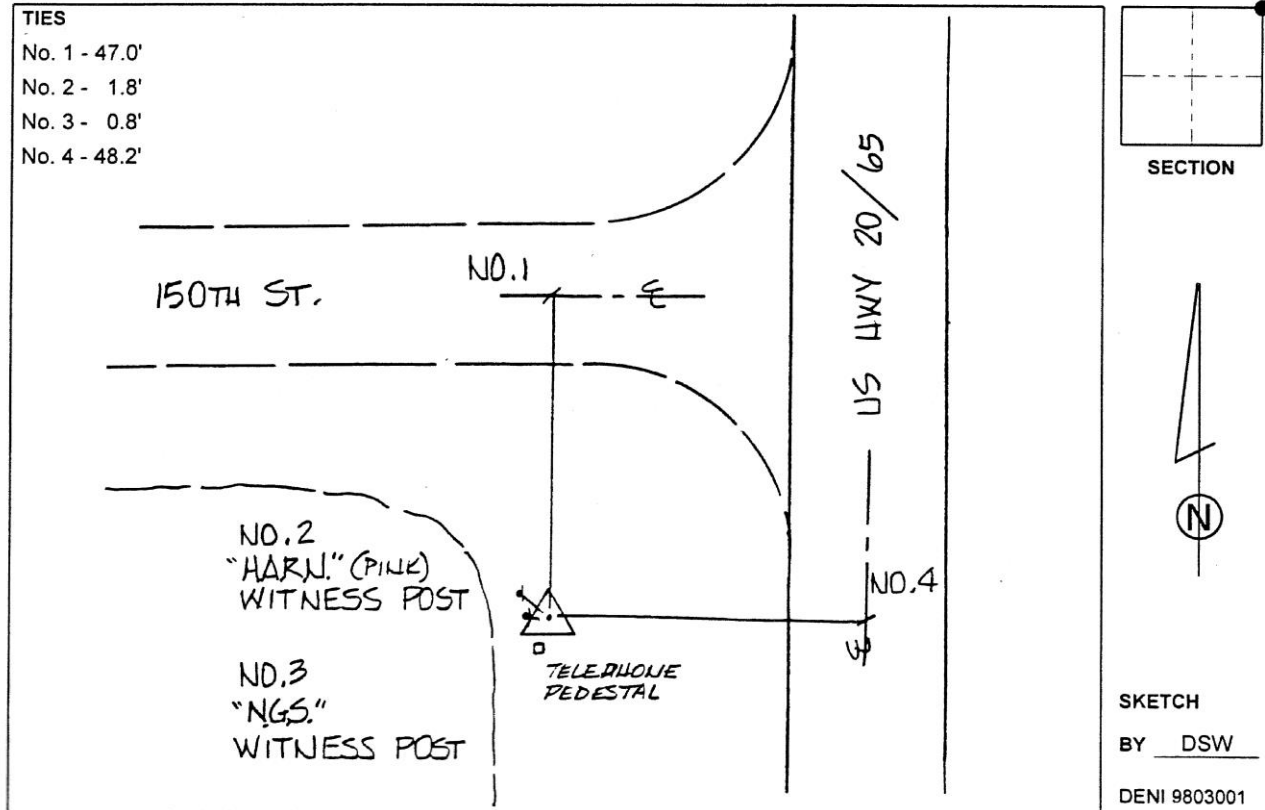
Designation: NGS: 1st order Vert. "42 140" PID: NK0284 & IaHARN

NAD 83(NA2011) Latitude: **N42°29'06.37123"** Longitude: **W93°15'45.48261"**
 NAVD 88 Ortho Height: **1127.830sft** Ellip. Ht: **1029.601sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3639916.560sft** Easting: **4985275.080sft**
 Mapping Angle: **0°09'39"** Combination Scale Factor: **0.9999012065**

IaRCS Zone 4 Northing: **8586347.957sft** Easting: **14923683.654sft**
 Mapping Angle: **1°03'43"** Combination Scale Factor: **0.9999961354**

Monument Type: A state survey standard disk, stamped 42-140 and set in the top of a concrete post.



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Iowa State Plane North Zone (1401)
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Point Name: **9786**

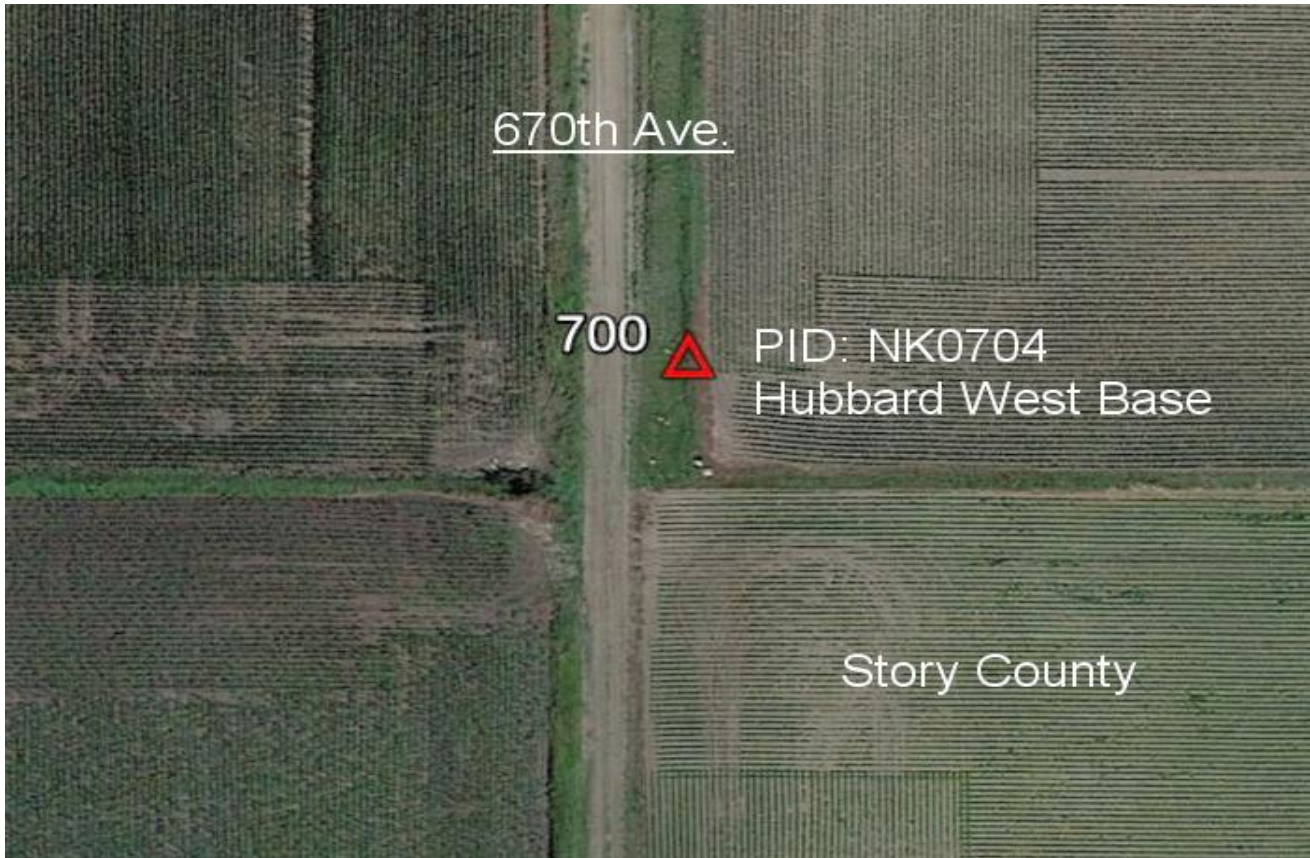
Designation: CBN: "Hubbard West Base" PID: NK0704

NAD 83(NA2011) Latitude: **N42°11'17.95884"** Longitude: **W93°21'58.33310"**
NAVD 88 Ortho Height: **1149.260sft** Ellip. Ht: **1051.182sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3531702.080sft** Easting: **4957510.300sft**
Mapping Angle: **0°05'26"** Combination Scale Factor: **0.9999298952**

IaRCS Zone 4 Northing: **8477700.585sft** Easting: **14897621.711sft**
Mapping Angle: **0°59'31"** Combination Scale Factor: **1.0000127794**

Monument Type: The station is a standard CGS horizontal station mark disk. Surface, underground and reference marks are standard bronze disks set in concrete.



This document was prepared by Dan Corbin, Inc. on February 18th, 2019 for Hardin County, Iowa.

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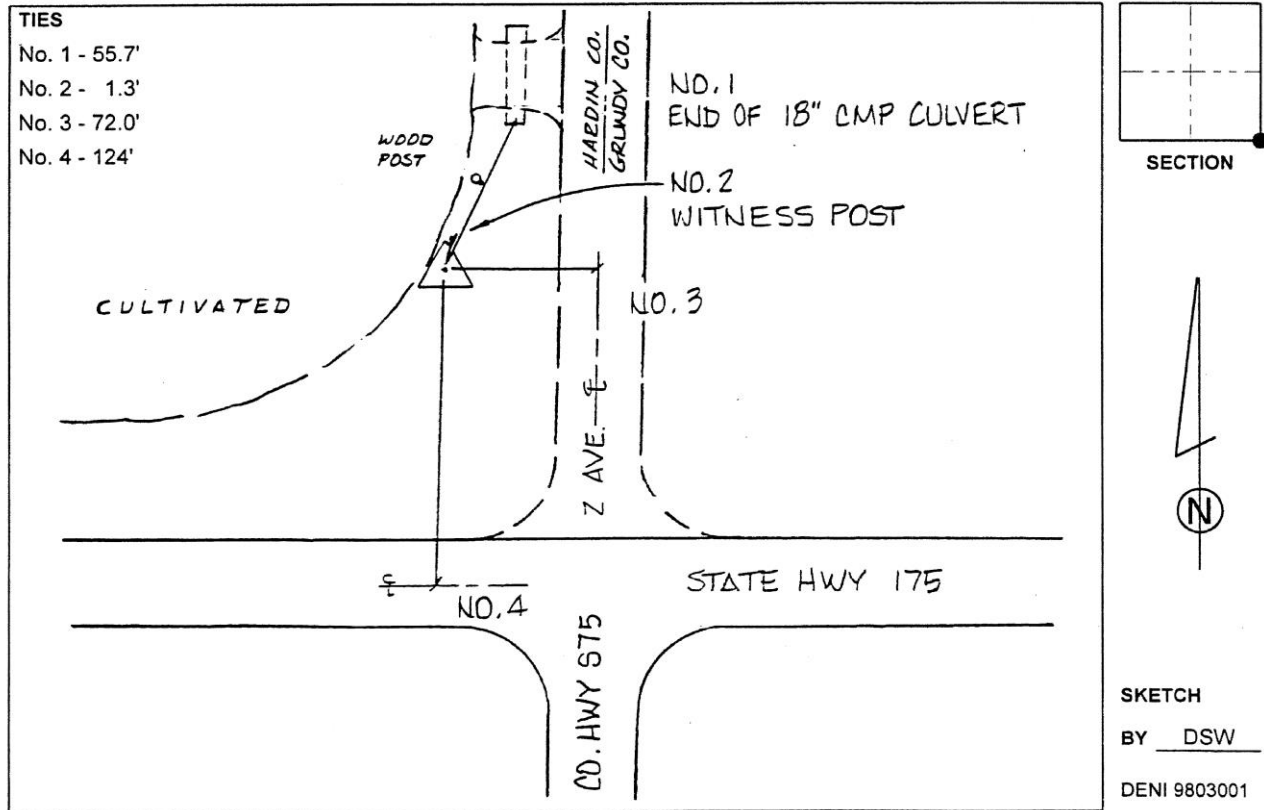
Point Name: **9797**
 Designation: USGS: 13 LAP

NAD 83(NA2011) Latitude: **N42°21'14.89264"** Longitude: **W93°00'09.21524"**
 NAVD 88 Ortho Height: **1083.940sft** Ellip. Ht: **980.028sft** Geoid12B

Iowa North Zone (1401) Northing: **3592495.100sft** Easting: **5055705.547sft**
 Mapping Angle: **0°20'14"** Combination Scale Factor: **0.9999134130**

IaRCS Zone 4 Northing: **8540035.247sft** Easting: **14994857.449sft**
 Mapping Angle: **1°14'15"** Combination Scale Factor: **1.0000030197**

Monument Type: Standard USGS disk on rod in 6" diameter concrete tile, flush, stamped "13 LAP 1974".



This document was prepared by Dan Corbin, Inc. on February 18th, 2019 for Hardin County, Iowa.

Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
 US Survey Feet
9/30/18

Point Name: **9804**

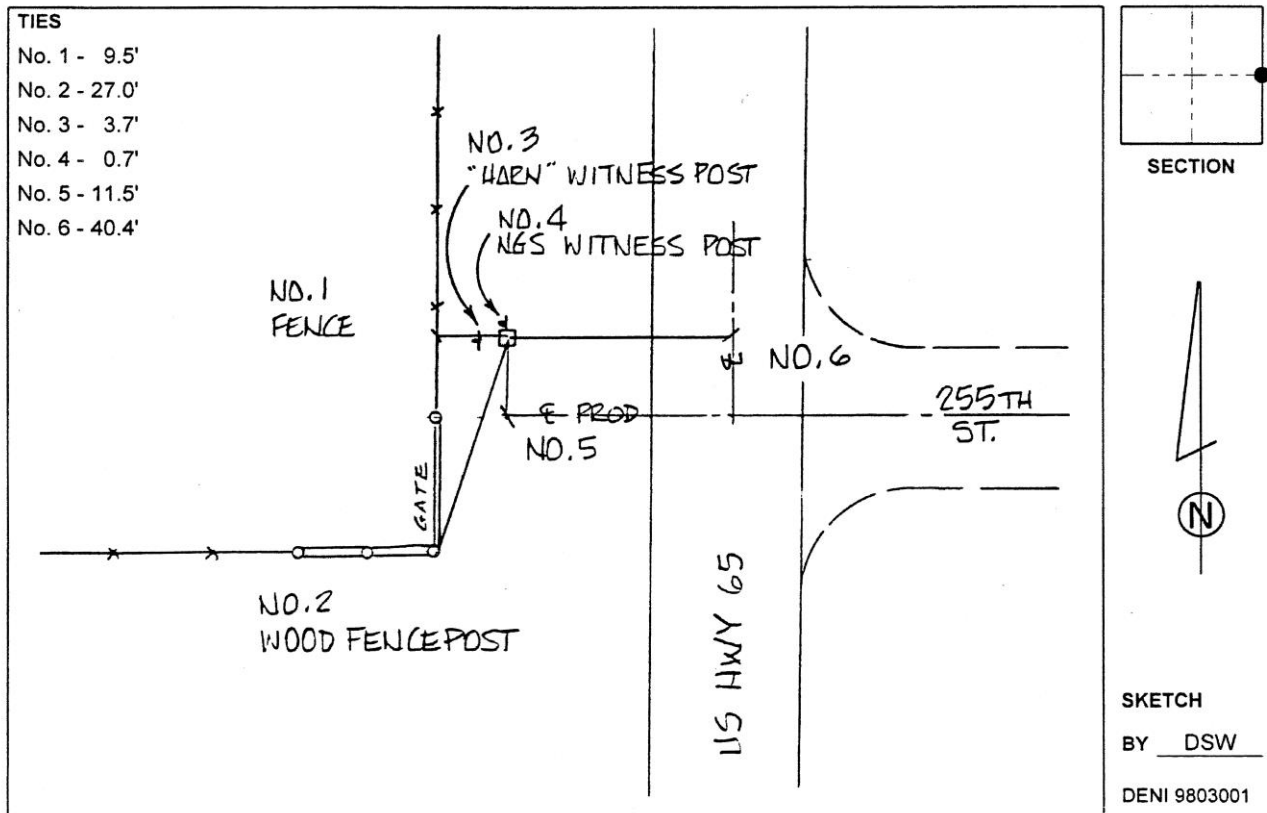
Designation: CBN: 1st order Vert. "42 105" PID: NK0300

NAD 83(NA2011) Latitude: **N42°19'55.66104"** Longitude: **W93°18'35.33267"**
 NAVD 88 Ortho Height: **1112.320sft** Ellip. Ht: **1014.143sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3584136.910sft** Easting: **4972674.430sft**
 Mapping Angle: **0°07'44"** Combination Scale Factor: **0.9999139441**

IaRCS Zone 4 Northing: **8530371.923sft** Easting: **14911960.598sft**
 Mapping Angle: **1°01'48"** Combination Scale Factor: **1.0000026574**

Monument Type: A state survey standard disk, stamped 42-105 and set in the top of a concrete post.



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
 US Survey Feet
9/30/18

Point Name: **9805**

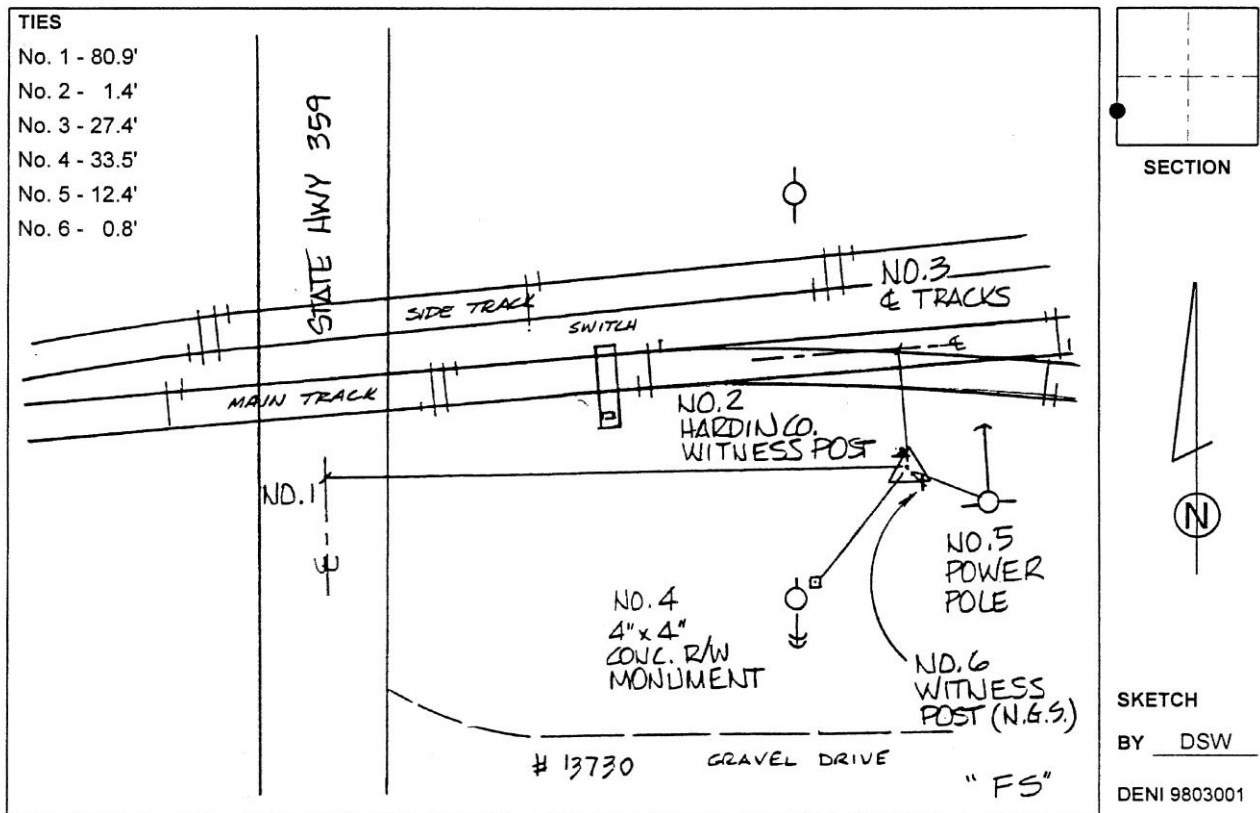
Designation: NGS: 2nd order Vert. "J 31" PID: NK0268

NAD 83(NA2011) Latitude: **N42°30'14.32360"** Longitude: **W93°22'50.37892"**
 NAVD 88 Ortho Height: **1168.680sft** Ellip. Ht: **1074.493sft** Geoid12B

Iowa North Zone (1401) Northing: **3646728.173sft** Easting: **4953429.864sft**
 Mapping Angle: **0°04'51"** Combination Scale Factor: **0.9998980708**

IaRCS Zone 4 Northing: **8592658.542sft** Easting: **14891732.213sft**
 Mapping Angle: **0°58'55"** Combination Scale Factor: **0.9999937675**

Monument Type: A standard disk stamped J-31 1934 set on top of a concrete post.



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Hardin County, Iowa
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 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
 US Survey Feet
9/30/18

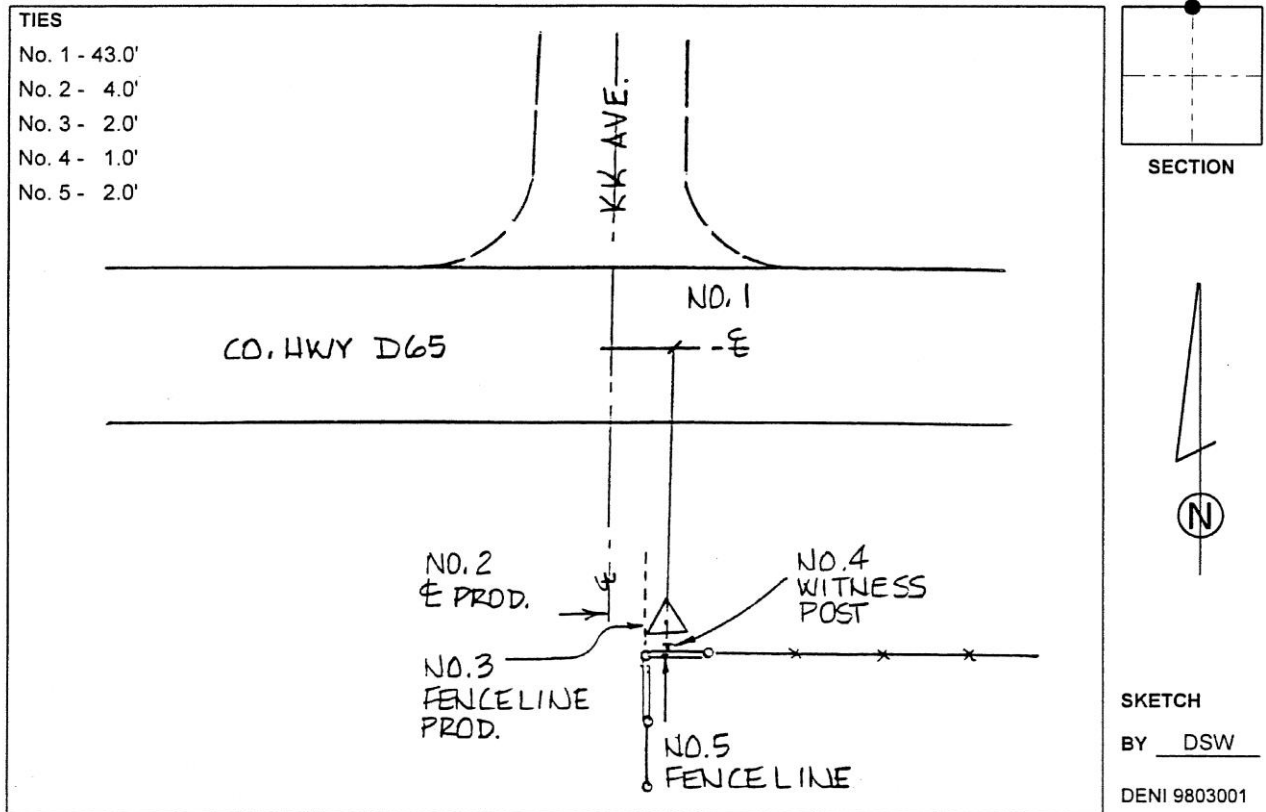
Point Name: **9807**
 Designation: USGS: 22 LAP

NAD 83(NA2011) Latitude: **N42°14'16.49087"** Longitude: **W93°16'49.83569"**
 NAVD 88 Ortho Height: **1059.610sft** Ellip. Ht: **959.952sft** Geoid12B

Iowa North Zone (1401) Northing: **3549822.847sft** Easting: **4980687.288sft**
 Mapping Angle: **0°08'56"** Combination Scale Factor: **0.9999274402**

IaRCS Zone 4 Northing: **8496185.137sft** Easting: **14920512.791sft**
 Mapping Angle: **1°02'59"** Combination Scale Factor: **1.0000123333**

Monument Type: Standard USGS disk on rod in 6" diameter concrete tile, stamped "22 LAP 1974".



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Hardin County, Iowa
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**
 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
 US Survey Feet
9/30/18

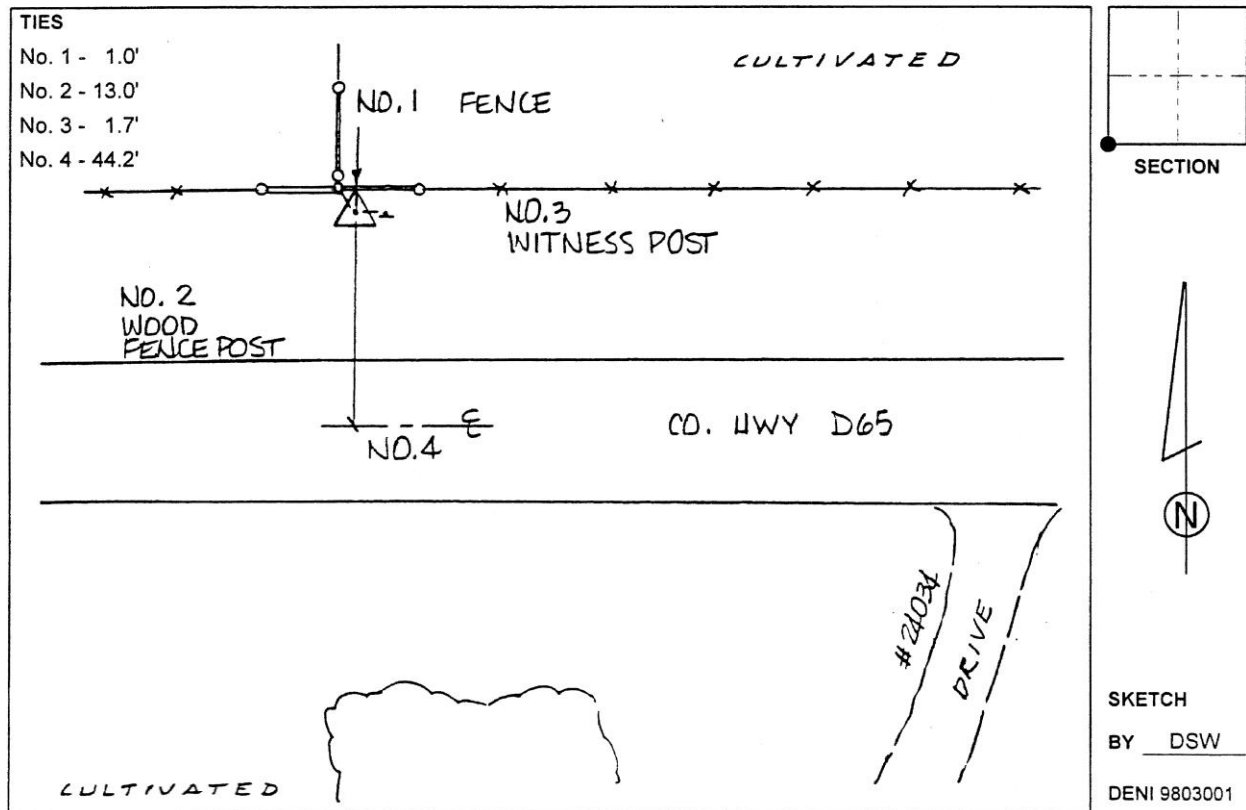
Point Name: **9808**
 Designation: USGS: 21 LAP

NAD 83(NA2011) Latitude: **N42°14'17.16577"** Longitude: **W93°13'54.17085"**
 NAVD 88 Ortho Height: **1136.590sft** Ellip. Ht: **1035.902sft** Geoid12B

Iowa North Zone (1401) Northing: **3549929.285sft** Easting: **4993900.791sft**
 Mapping Angle: **0°10'55"** Combination Scale Factor: **0.9999237856**

IaRCS Zone 4 Northing: **8496499.353sft** Easting: **14933724.109sft**
 Mapping Angle: **1°04'58"** Combination Scale Factor: **1.0000086860**

Monument Type: Standard USGS disk on rod in 6" diameter concrete tile, stamped "21 LAP 1974".



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Hardin County, Iowa
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 Iowa State Plane North Zone (1401)
 Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC
 US Survey Feet
9/30/18

Point Name: **9813**

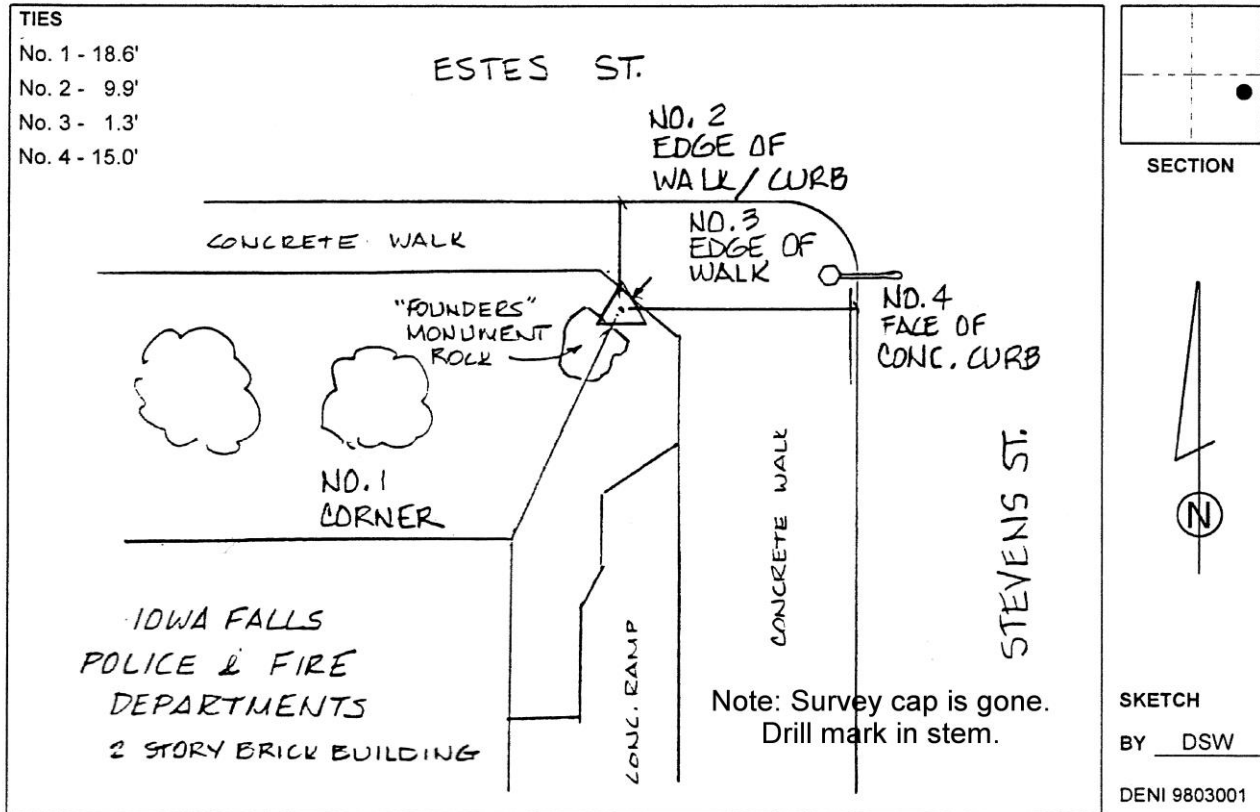
Designation: NGS: 1st order Vert. "Iowa Falls" PID: NK0257

NAD 83(NA2011) Latitude: **N42°31'13.62740"** Longitude: **W93°15'51.58988"**
 NAVD 88 Ortho Height: **1113.114sft** Ellip. Ht: **1015.338sft** **Geoid12B**

Iowa North Zone (1401) Northing: **3652797.322sft** Easting: **4984781.580sft**
 Mapping Angle: **0°09'35"** Combination Scale Factor: **0.9999001222**

IaRCS Zone 4 Northing: **8599220.597sft** Easting: **14922987.613sft**
 Mapping Angle: **1°03'38"** Combination Scale Factor: **0.9999964896**

Monument Type: A standard disk stamped "Iowa Falls 1934" and set in the top of a concrete post projecting 1" above ground.



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Hardin County, Iowa

Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC

US Survey Feet

Point Name: **9814 (Destroyed)**

Designation: USGS 27 LAP

NAD 83(1996) Latitude: ~~N 42 15 09.39264~~

Longitude: ~~W 93 25 28.95722~~

NAVD 88 Ortho Height: ~~1207.57~~sft

Ellip. Ht: ~~1111.94~~sft

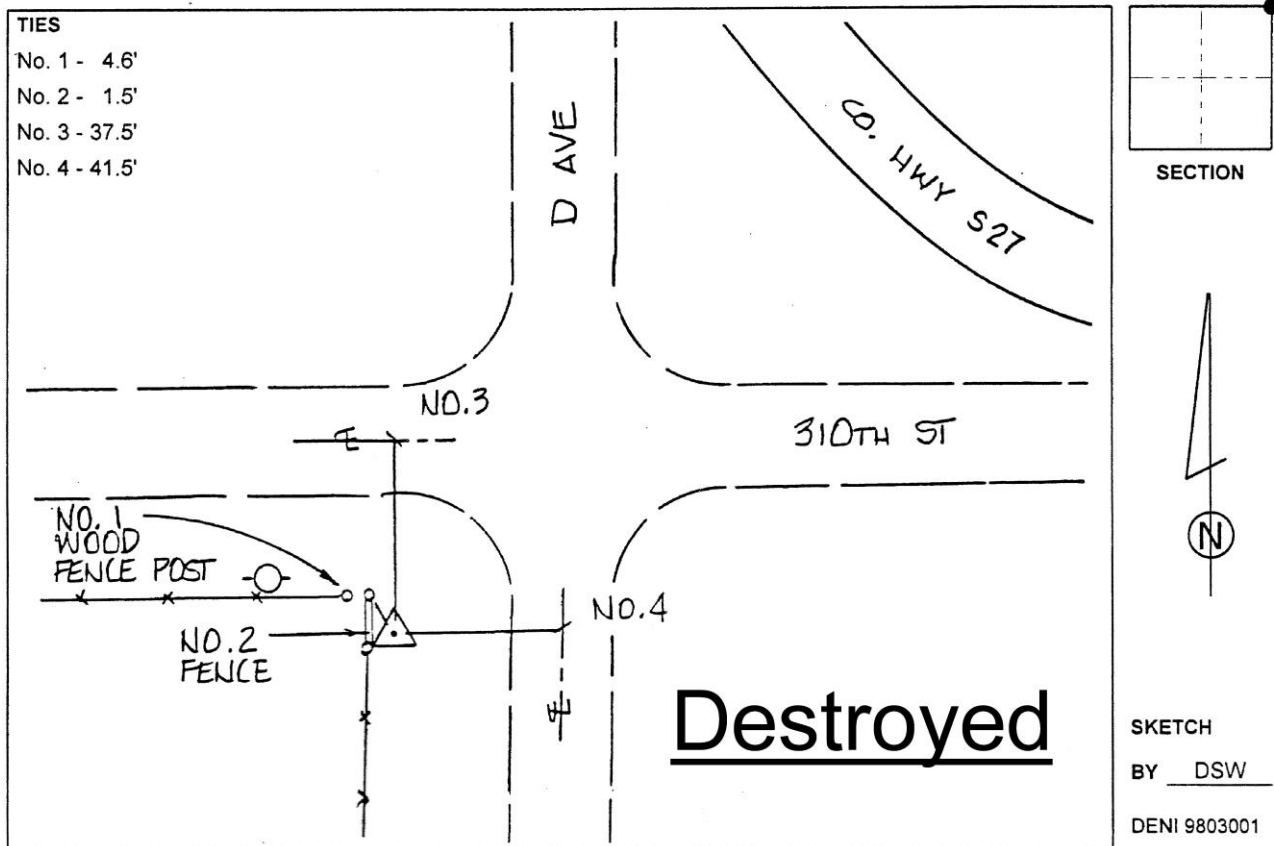
Iowa North Zone (1401) Northing: ~~3555109.87~~sft

Easting: ~~4941633.48~~sft

Mapping Angle: ~~0 03 03.70~~

Combination Scale Factor: ~~0.99997145~~

Monument Type: Standard USGS disk on rod in 6" diameter concrete tile well, stamped "27 CDL 1974"



This document was prepared by Dan Corbin, Inc. on February 18th, 2019 for Hardin County, Iowa.

Hardin County, Iowa

Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 4, Sioux City-Iowa Falls LCC

US Survey Feet

9/30/18

Point Name: **9837**

Designation: CBN: 1st order Vert. "42 141" PID: NK0285

NAD 83(NA2011) Latitude: **N42°28'14.50830"** Longitude: **W93°15'45.11354"**

NAVD 88 Ortho Height: **1134.520sft** Ellip. Ht: **1036.152sft** **Geoid12B**

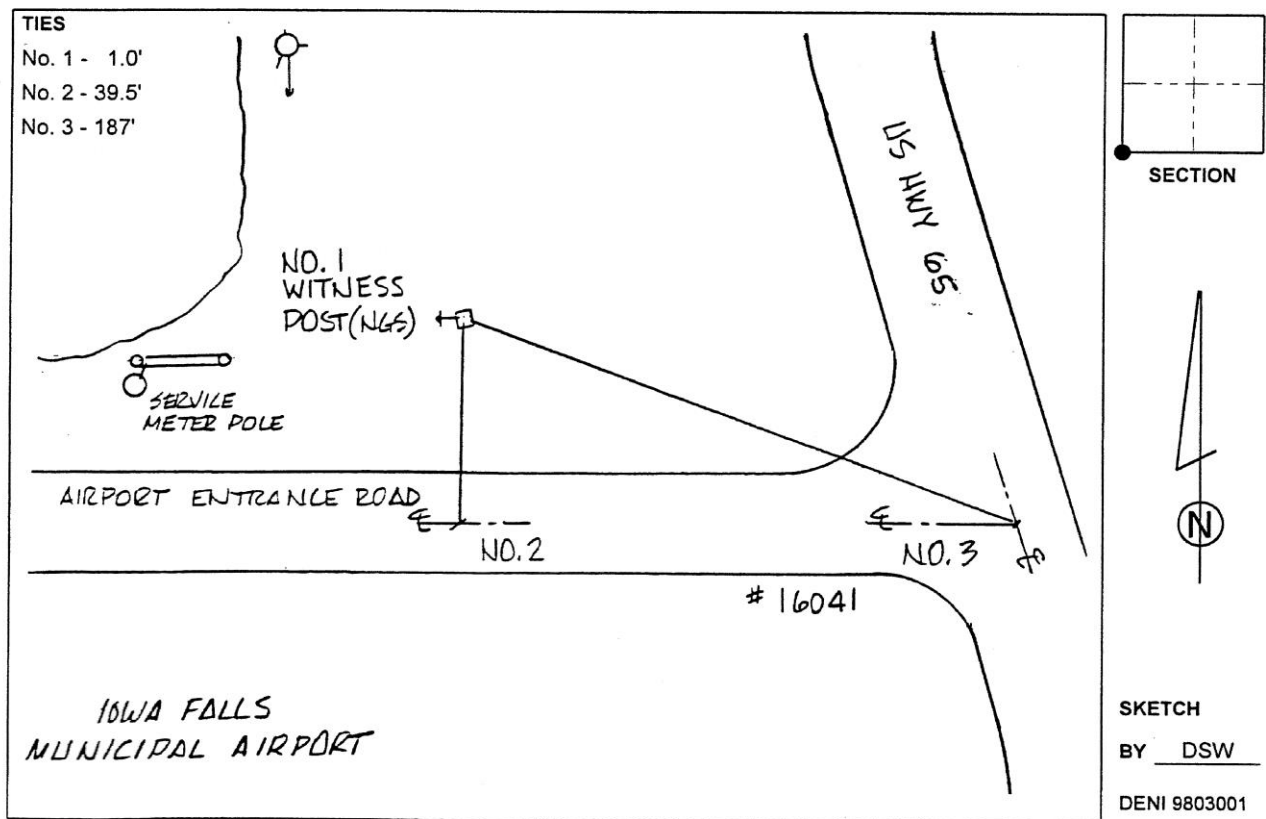
Iowa North Zone (1401) Northing: **3634666.610sft** Easting: **4985317.480sft**

Mapping Angle: **0°09'39"** Combination Scale Factor: **0.9999017217**

IaRCS Zone 4 Northing: **8581098.826sft** Easting: **14923808.610sft**

Mapping Angle: **1°03'43"** Combination Scale Factor: **0.9999960645**

Monument Type: A standard disk stamped "I.G.S. 42-141" and set in the top of a concrete post projecting 1.3ft above ground.



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