

***Grundy County***  
***Iowa***

NAD 83(NA2011)

**Iowa North Zone (1401)**

**&**

**IaRCS Zone 5**

**Monument Records**

**2018**

---

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

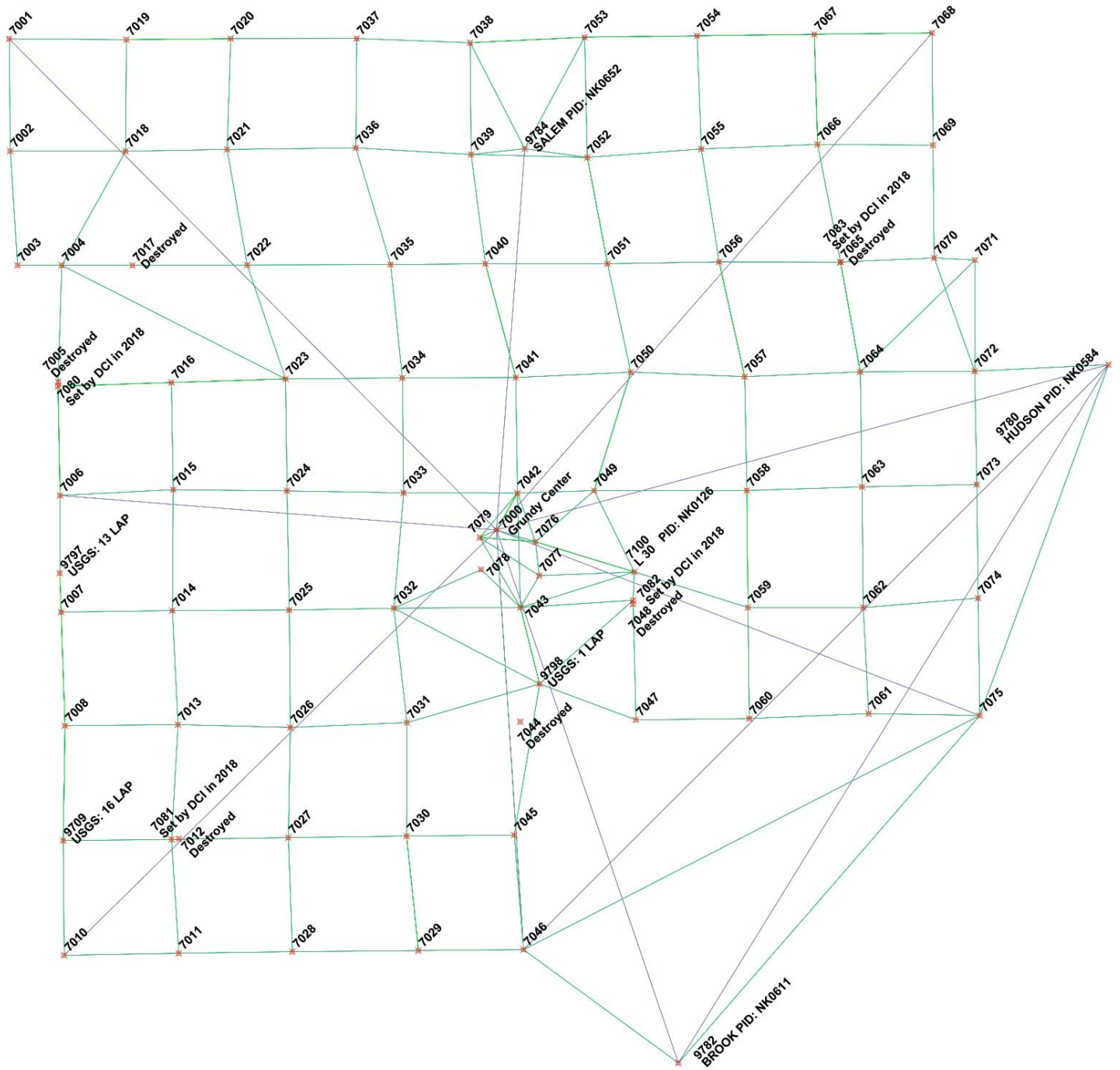
---



---

Cell: (319) 231-7047  
Fax: (319) 266-3398  
E-Mail: dcorbin@cfu.net

---



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



**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7001**

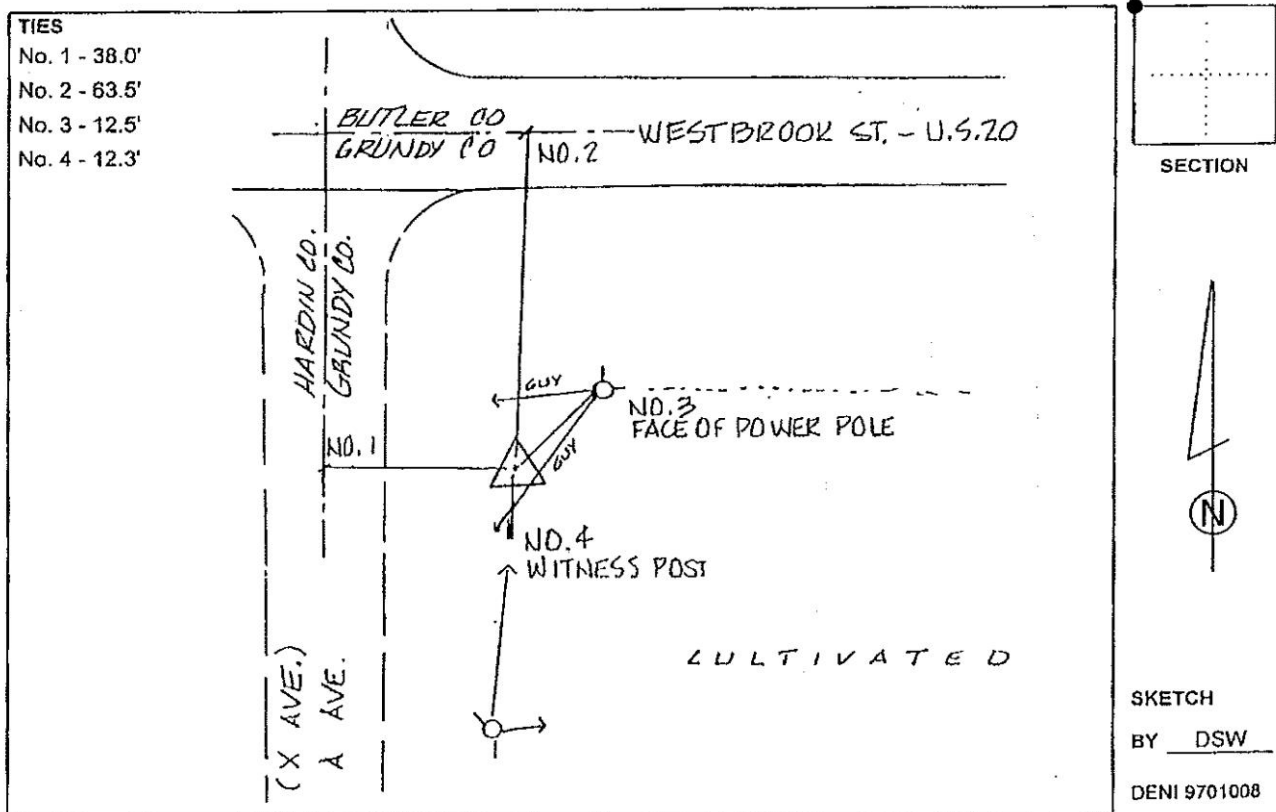
**Designation:** Grundy Co 7001 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°33'23.87533"** Longitude: **W93°01'36.68332"**  
 NAVD 88 Ortho Height: **1068.540sft** Ellip. Ht: **965.533sft** Geoid12B

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

**IaRCS Zone 5** Northing: **8866932.245sft** Easting: **15290681.498sft**  
 Mapping Angle: **-0°31'35"** Combination Scale Factor: **0.9999871682**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7002**

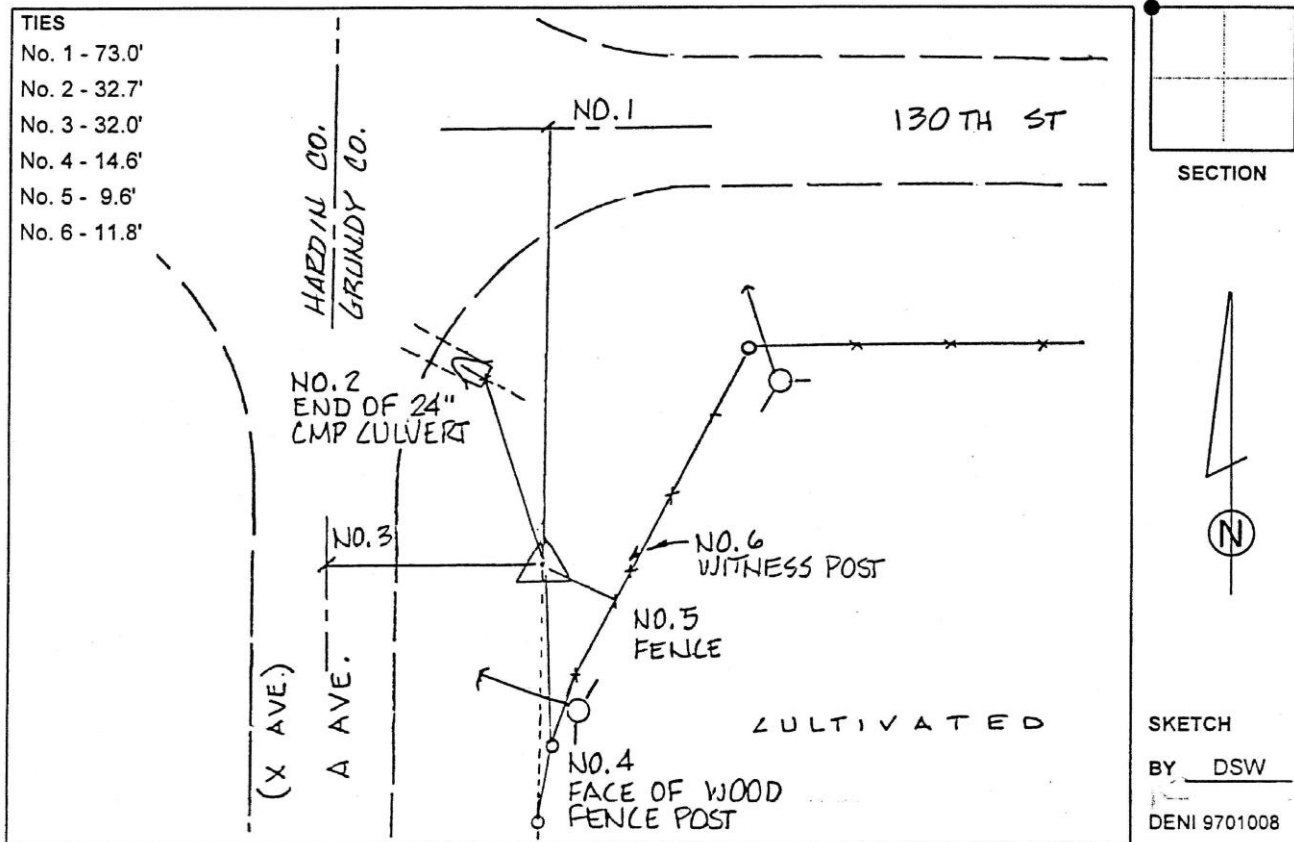
**Designation:** Grundy Co 7002 (Set by Deni Associates in 1997)

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 5** Northing: **8851434.951sft** Easting: **15290602.583sft**  
 Mapping Angle: **-0°31'34"** Combination Scale Factor: **0.9999875990**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7003**

**Designation:** Grundy Co 7003 (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**

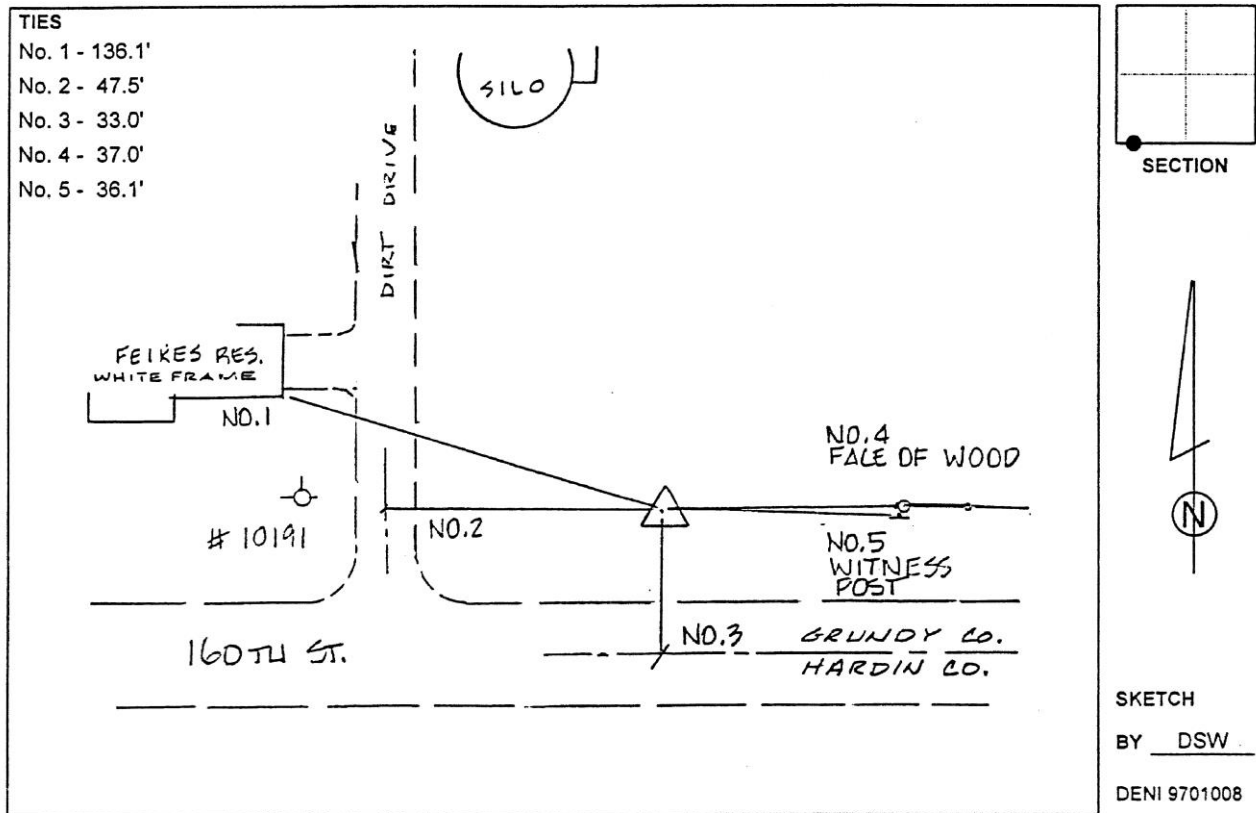
**Iowa North Zone (1401)** Northing: **3634990.227sft** Easting: **5049884.910sft**

Mapping Angle: **0°19'23"** Combination Scale Factor: **0.9999050069**

**IaRCS Zone 5** Northing: **8835655.560sft** Easting: **15291378.897sft**

Mapping Angle: **-0°31'26"** Combination Scale Factor: **0.9999906302**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7004**

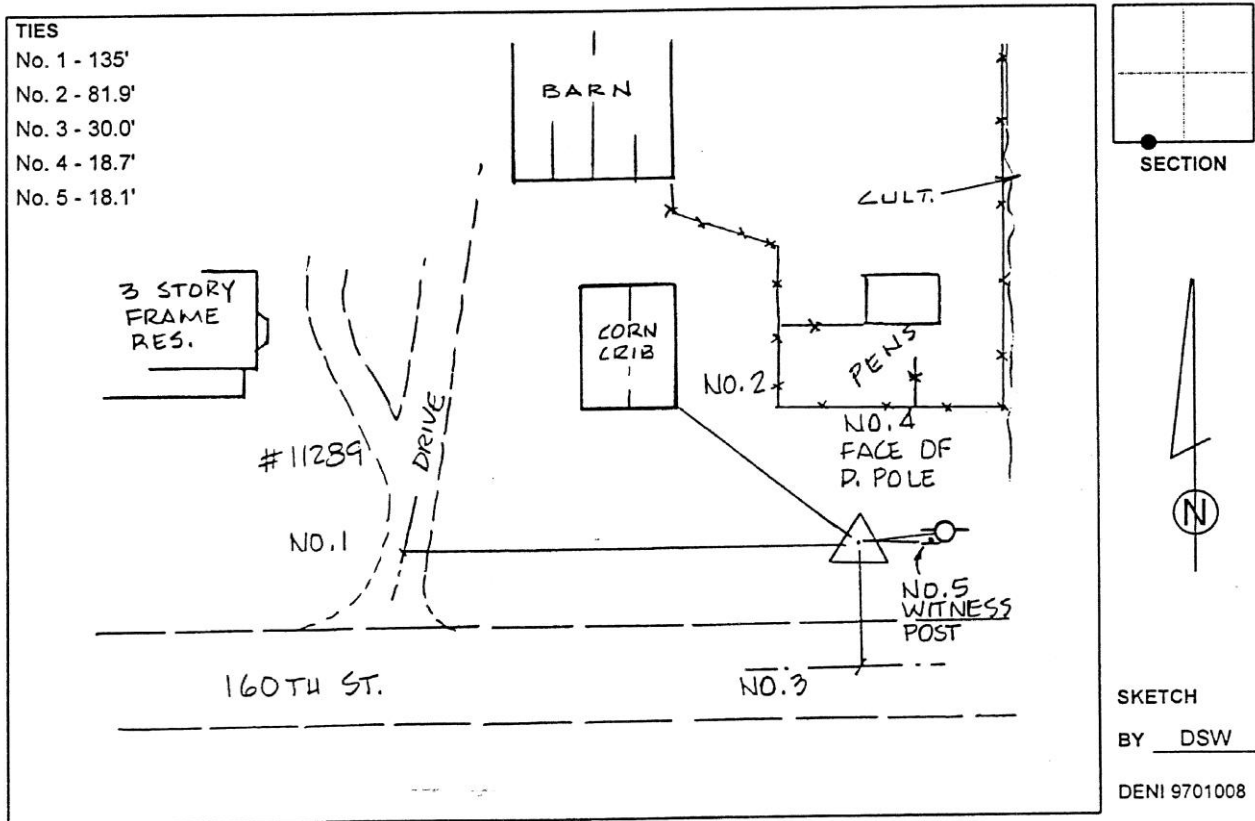
**Designation:** Grundy Co 7004 (Set by Deni Associates in 1997)

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**

**IaRCS Zone 5** Northing: **8835556.120sft** Easting: **15297475.188sft**  
 Mapping Angle: **-0°30'31"** Combination Scale Factor: **0.9999913142**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

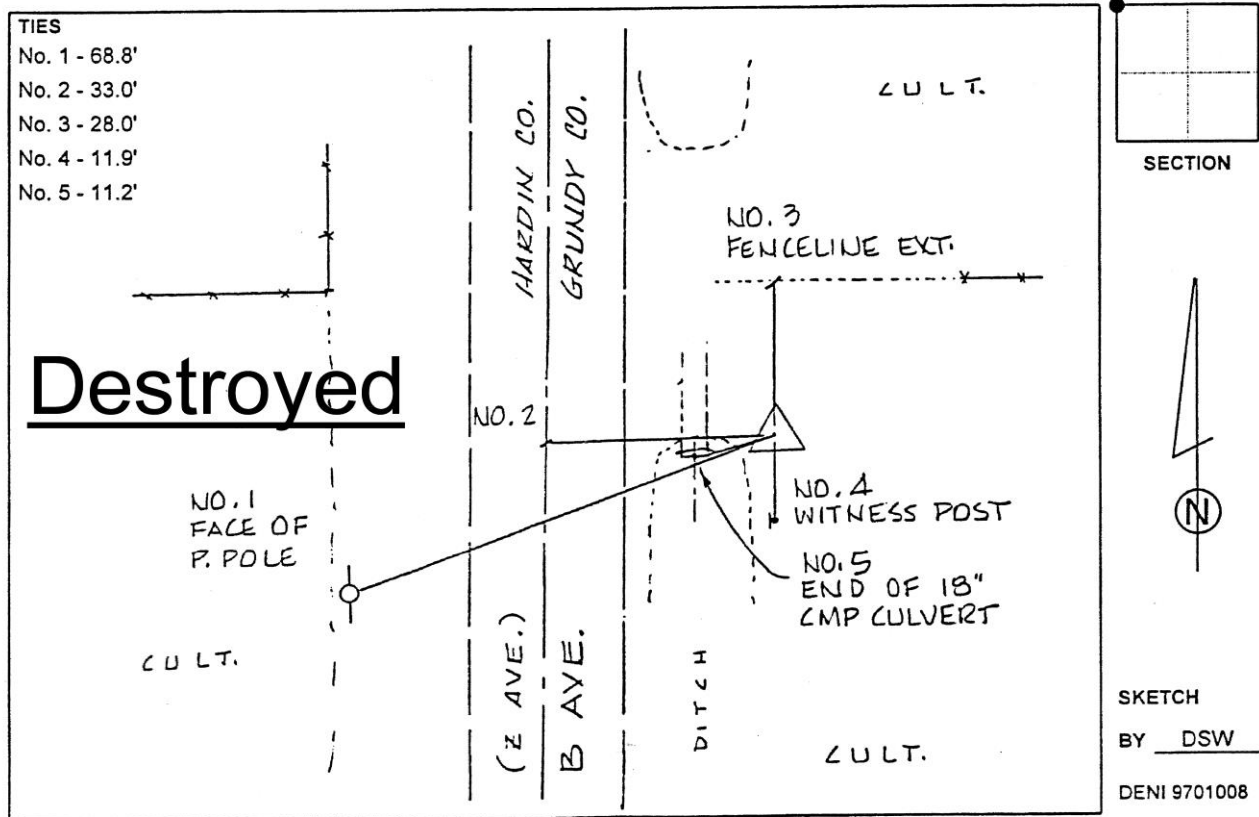
Point Name: **7005 (Destroyed)**

**Designation:** Grundy Co 7005 (Set by Deni Associates in 1997)

NAD 83(1996) Latitude: ~~42-25-35.88009N~~ Longitude: ~~93-00-09.65823W~~  
NAVD 88 Ortho Height: ~~1117.000~~sft Ellip. Ht: ~~1013.387~~sft

**Iowa North Zone (1401)** Northing: ~~3618913.780~~sft Easting: ~~5055516.870~~sft  
Mapping Angle: ~~0-20-13.3~~ 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.



*This document was prepared by Dan Corbin, Inc. on March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7006**

**Designation:** Grundy Co 7006 (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** **Geoid12B**

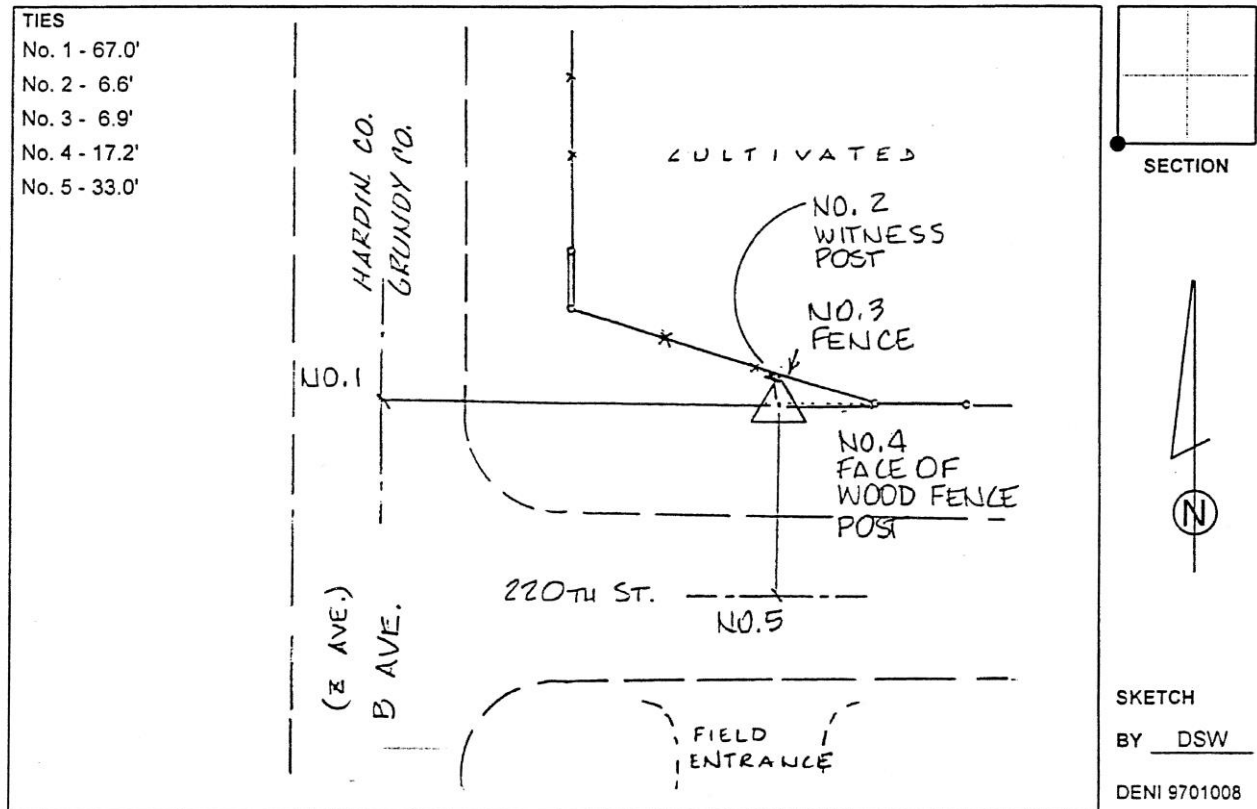
**Iowa North Zone (1401)** Northing: **3603209.331sft** Easting: **5055750.595sft**

Mapping Angle: **0°20'15"** Combination Scale Factor: **0.9999113479**

**IaRCS Zone 5** Northing: **8803788.705sft** Easting: **15296774.599sft**

Mapping Angle: **-0°30'35"** Combination Scale Factor: **0.9999965060**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7007**

**Designation:** Grundy Co 7007 (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**

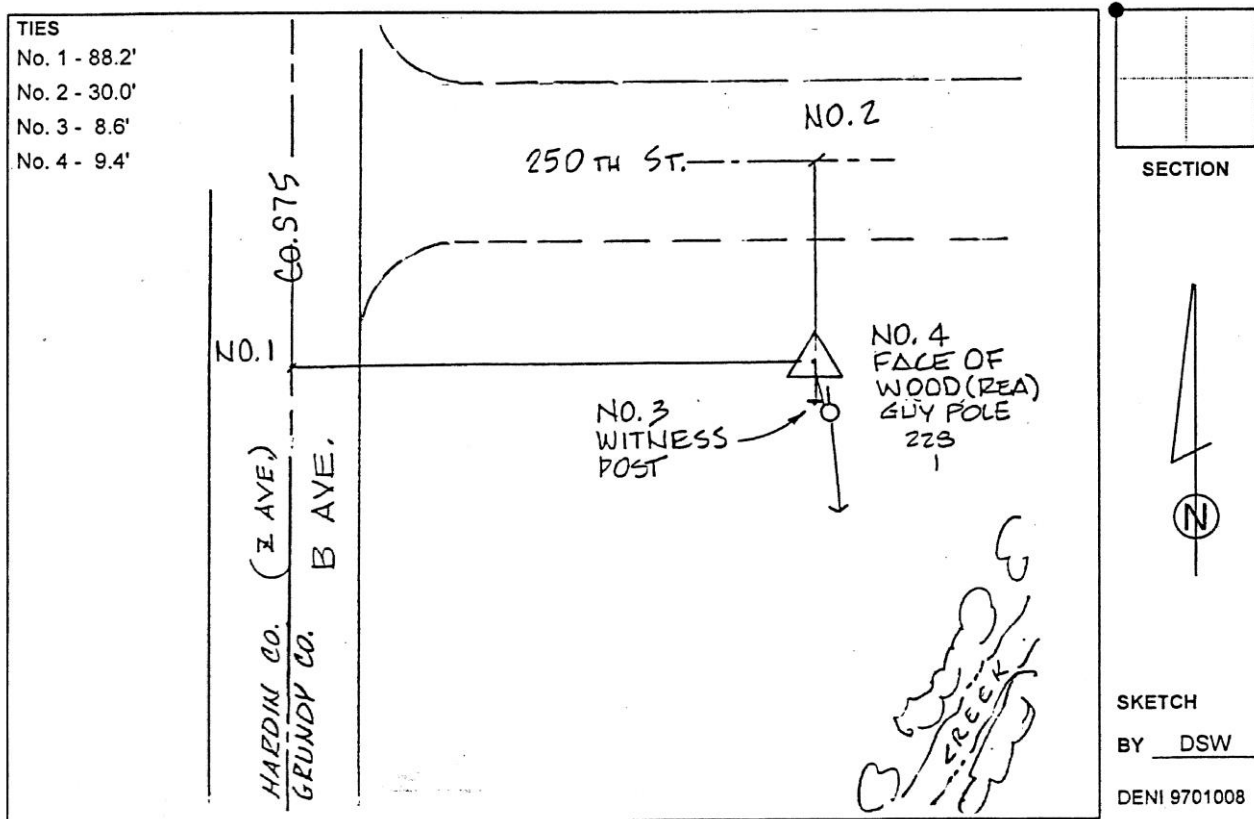
**Iowa North Zone (1401)** Northing: **3587105.109sft** Easting: **5055906.161sft**

Mapping Angle: **0°20'15"** Combination Scale Factor: **0.9999173835**

**IaRCS Zone 5** Northing: **8787682.574sft** Easting: **15296692.079sft**

Mapping Angle: **-0°30'34"** Combination Scale Factor: **1.0000023066**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7008**

**Designation:** Grundy Co 7008 (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** **Geoid12B**

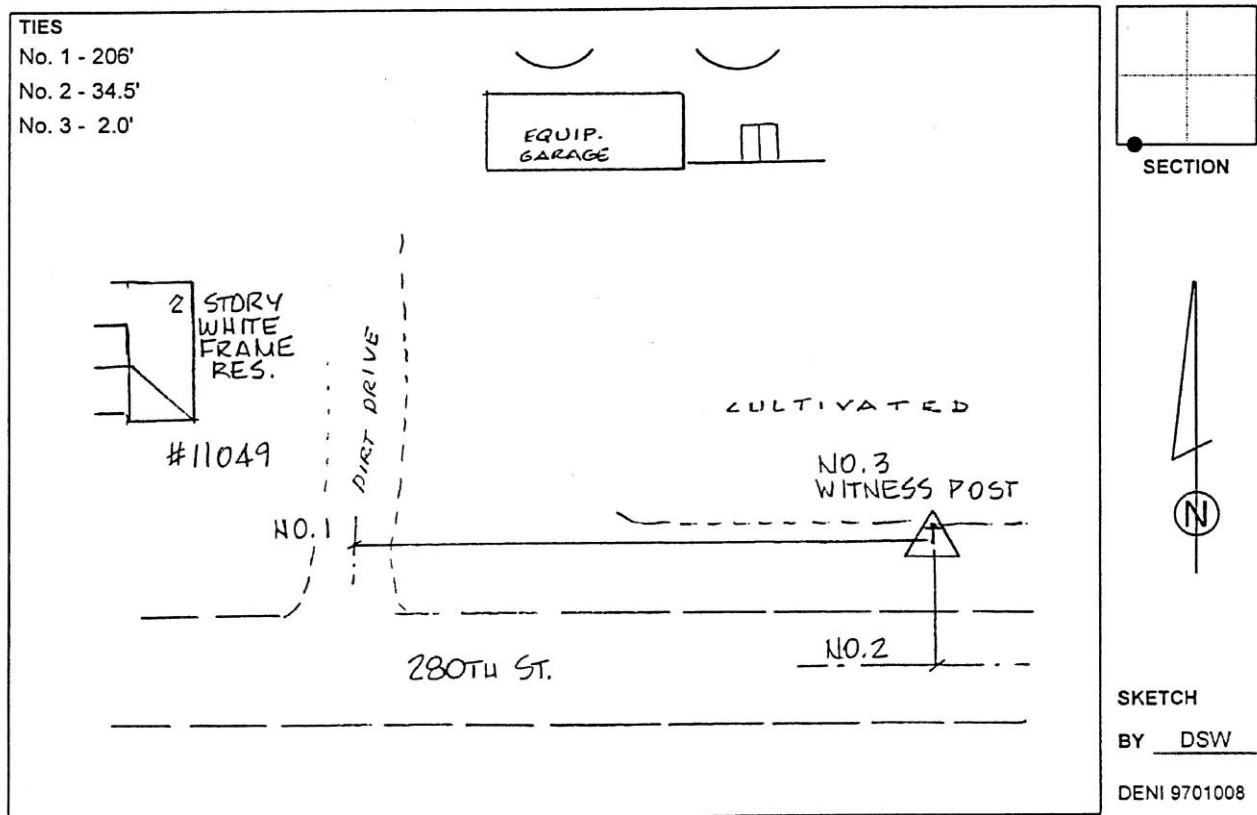
**Iowa North Zone (1401)** Northing: **3571424.313sft** Easting: **5056427.945sft**

Mapping Angle: **0°20'19"** Combination Scale Factor: **0.9999209008**

**IaRCS Zone 5** Northing: **8771994.447sft** Easting: **15296982.028sft**

Mapping Angle: **-0°30'30"** Combination Scale Factor: **1.0000055949**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7010**

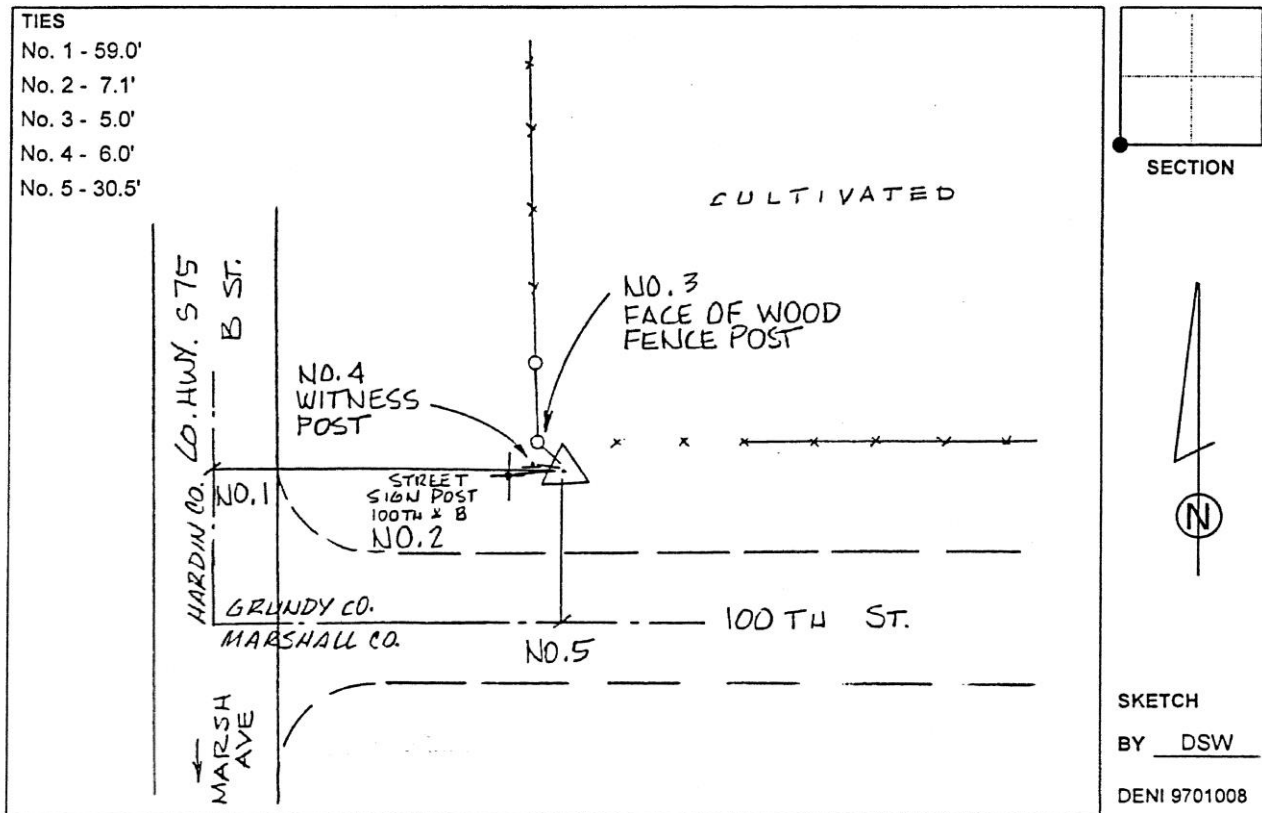
**Designation:** Grundy Co 7010 (Set by Deni Associates in 1997)

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

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

**IaRCS Zone 5** Northing: **8740307.461sft** Easting: **15296402.651sft**  
 Mapping Angle: **-0°30'33"** Combination Scale Factor: **1.0000216204**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7011**

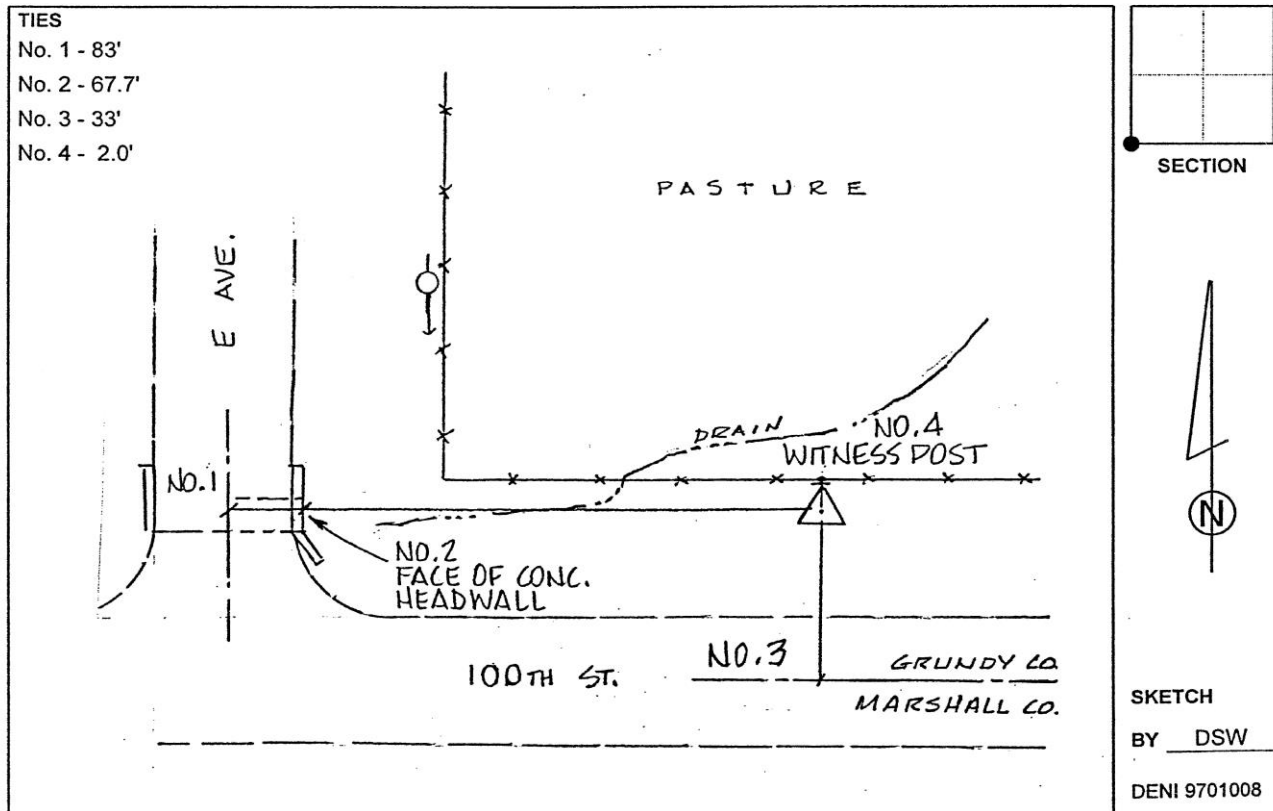
**Designation:** Grundy Co 7011 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°12'35.49159"** Longitude: **W92°56'34.89922"**  
 NAVD 88 Ortho Height: **1020.029sft** Ellip. Ht: **915.932sft** Geoid**12B**

**Iowa North Zone (1401)** Northing: **3540018.877sft** Easting: **5072142.981sft**  
 Mapping Angle: **0°22'39"** Combination Scale Factor: **0.9999333090**

**IaRCS Zone 5** Northing: **8740357.460sft** Easting: **15312232.378sft**  
 Mapping Angle: **-0°28'10"** Combination Scale Factor: **1.0000175442**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

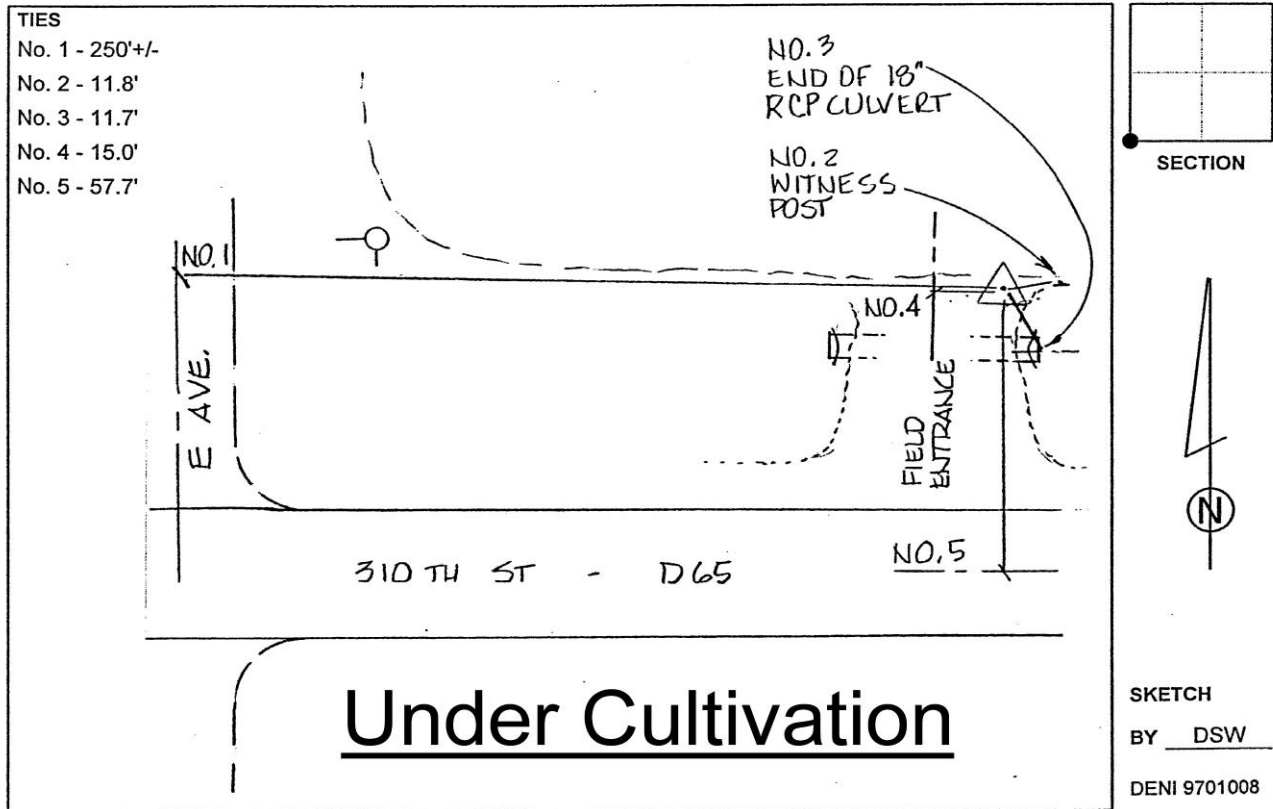
Point Name: **7012 (Destroyed)**

**Designation:** Grundy Co 7012 (Set by Deni Associates in 1997)

NAD 83(1996) Latitude: ~~42 15 11.67394N~~ Longitude: ~~92 56 33.24130W~~  
 NAVD 88 Ortho Height: ~~1042.680~~sft Ellip. Ht: ~~938.702~~sft

**Iowa North Zone (1401)** Northing: ~~3555829.270~~sft Easting: ~~5072163.500~~sft  
 Mapping Angle: ~~0 22 40.0~~ Combination Scale Factor: ~~0.9999713700~~

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7013**

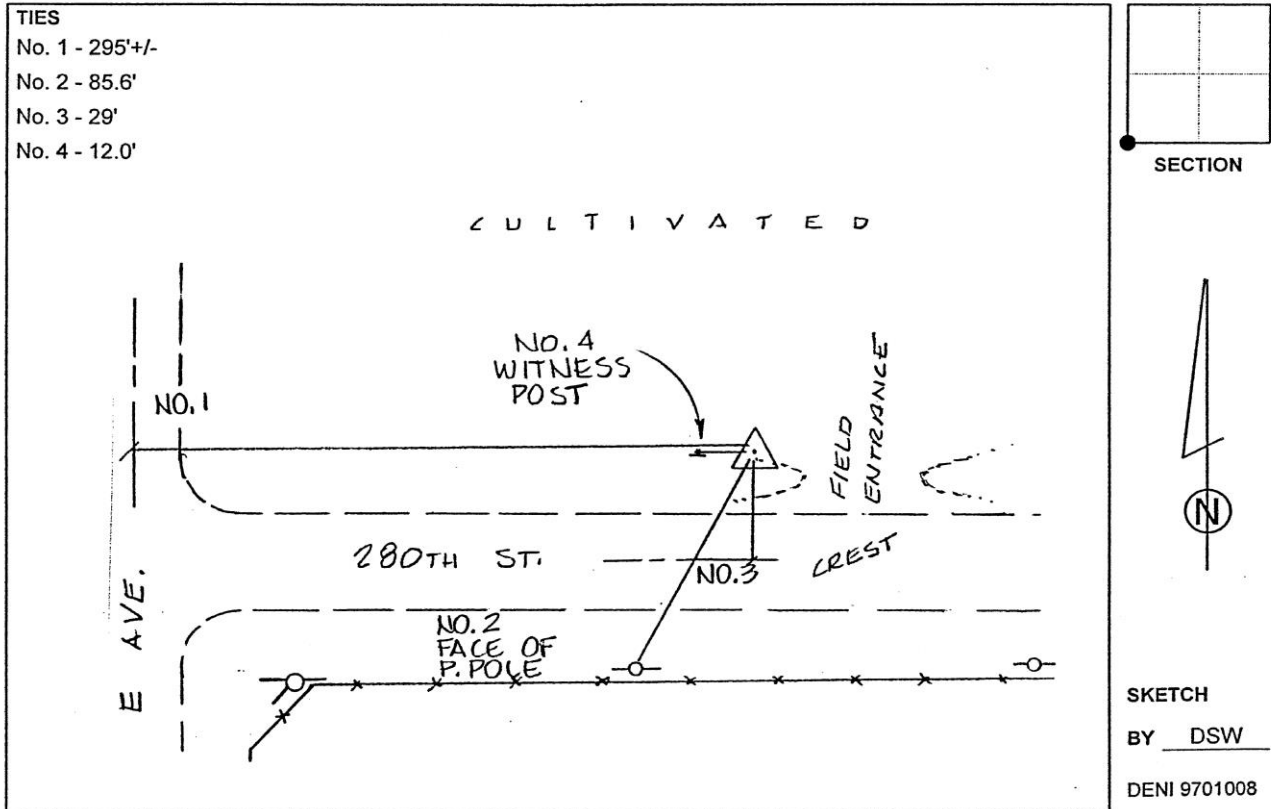
**Designation:** Grundy Co 7013 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°17'47.23604"** Longitude: **W92°56'33.66262"**  
 NAVD 88 Ortho Height: **1060.930sft** Ellip. Ht: **956.680sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3571575.888sft** Easting: **5072028.004sft**  
 Mapping Angle: **0°22'40"** Combination Scale Factor: **0.9999205052**

**IaRCS Zone 5** Northing: **8771915.388sft** Easting: **15312583.944sft**  
 Mapping Angle: **-0°28'10"** Combination Scale Factor: **1.0000052000**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7014**

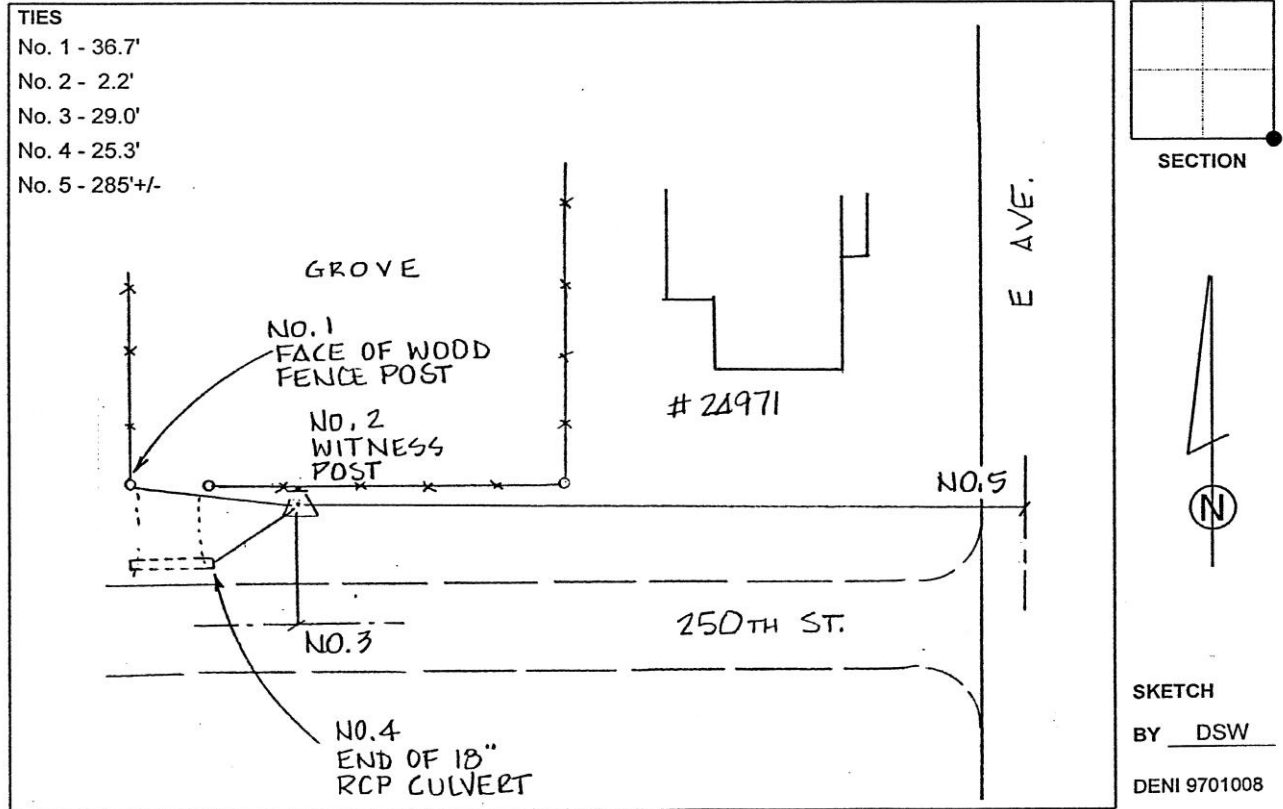
**Designation:** Grundy Co 7014 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°20'22.78854"** Longitude: **W92°56'42.53766"**  
 NAVD 88 Ortho Height: **1120.497sft** Ellip. Ht: **1016.201sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3587317.398sft** Easting: **5071257.701sft**  
 Mapping Angle: **0°22'34"** Combination Scale Factor: **0.9999130892**

**IaRCS Zone 5** Northing: **8787667.901sft** Easting: **15312046.384sft**  
 Mapping Angle: **-0°28'16"** Combination Scale Factor: **0.9999980136**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7015**

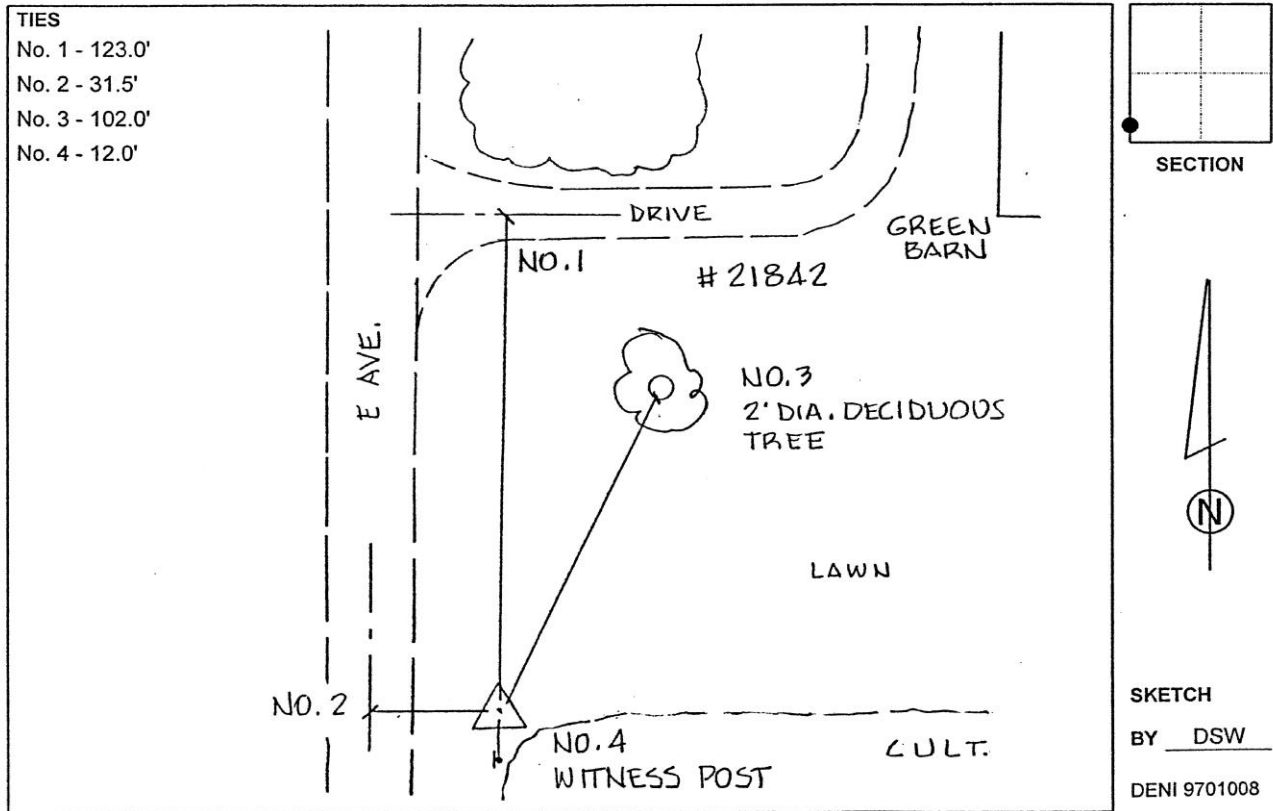
**Designation:** Grundy Co 7015 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°23'07.73417"** Longitude: **W92°56'39.68014"**  
 NAVD 88 Ortho Height: **1079.950sft** Ellip. Ht: **975.592sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3604015.585sft** Easting: **5071362.551sft**  
 Mapping Angle: **0°22'36"** Combination Scale Factor: **0.9999107988**

**IaRCS Zone 5** Northing: **8804364.133sft** Easting: **15312398.099sft**  
 Mapping Angle: **-0°28'14"** Combination Scale Factor: **0.9999959672**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

Point Name: **7016**

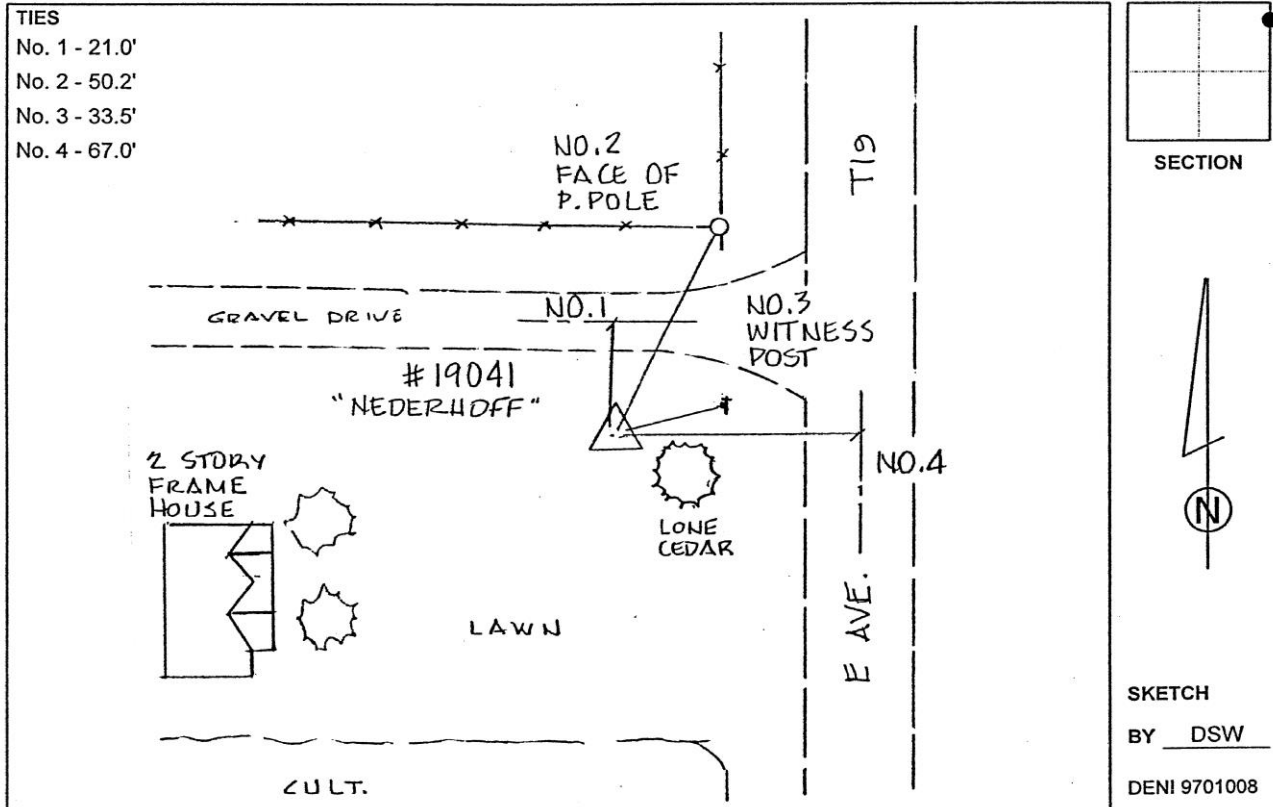
**Designation:** Grundy Co 7016 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°25'33.76830"** Longitude: **W92°56'41.65201"**  
NAVD 88 Ortho Height: **1061.700sft** Ellip. Ht: **957.337sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3618797.113sft** Easting: **5071117.510sft**  
Mapping Angle: **0°22'34"** Combination Scale Factor: **0.9999084545**

**IaRCS Zone 5** Northing: **8819148.929sft** Easting: **15312371.594sft**  
Mapping Angle: **-0°28'15"** Combination Scale Factor: **0.9999938391**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

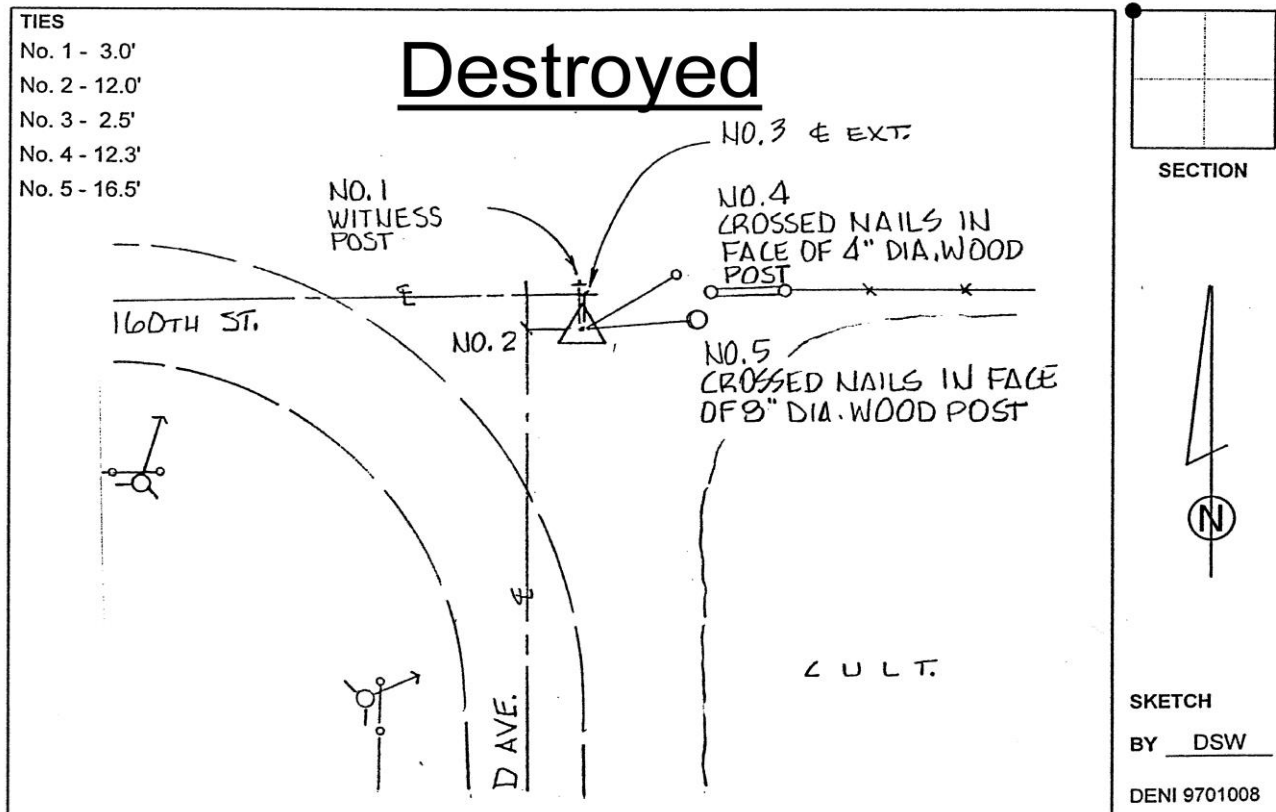
Point Name: **7017 (Destroyed)**

**Designation:** Grundy Co 7017 (Set by Deni Associates in 1997)

NAD 83(1996) Latitude: ~~42 28 13.86638N~~ Longitude: ~~92 57 51.81665W~~  
 NAVD 88 Ortho Height: ~~1062.490~~sft Ellip. Ht: ~~958.577~~sft

**Iowa North Zone (1401)** Northing: ~~3634969.410~~sft Easting: ~~5065752.860~~sft  
 Mapping Angle: ~~0 21 46.8~~ Combination Scale Factor: ~~0.9999512600~~

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7018**

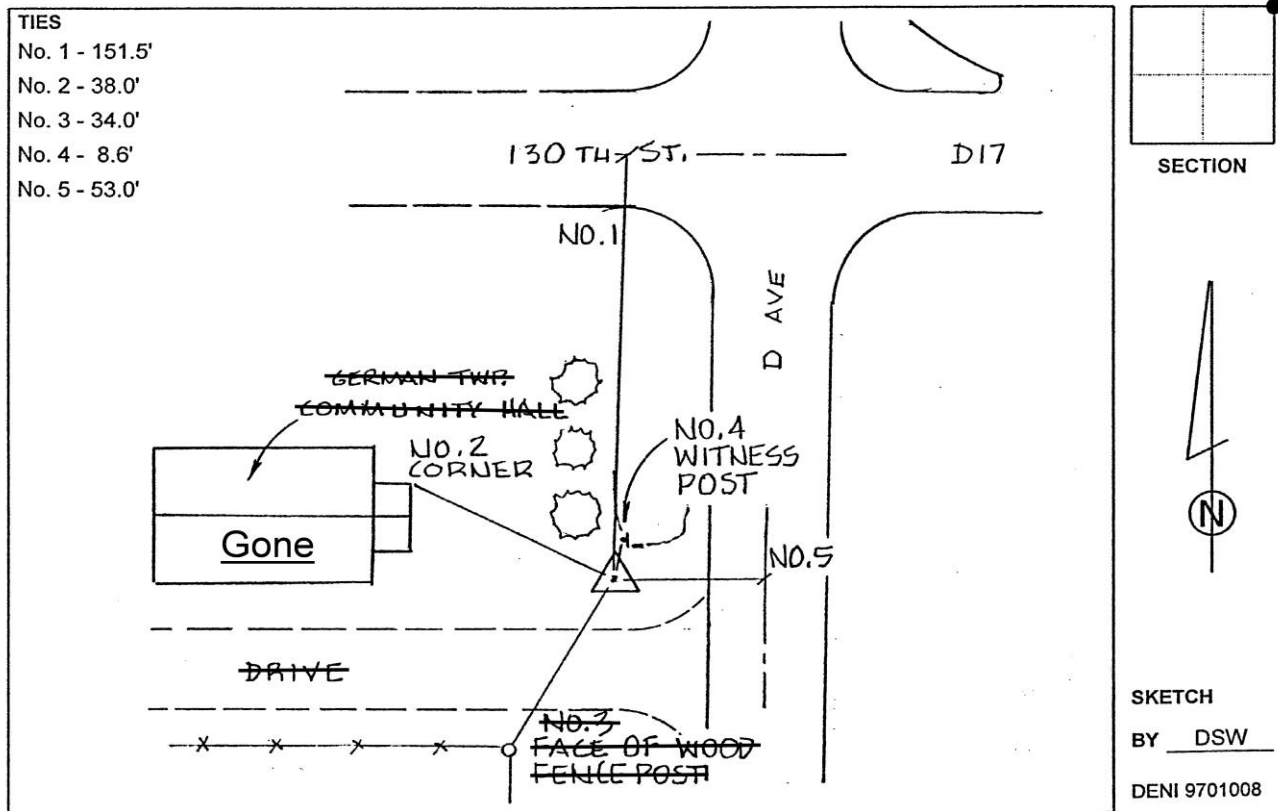
**Designation:** Grundy Co 7018 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°30'49.59493"** Longitude: **W92°58'03.41508"**  
 NAVD 88 Ortho Height: **1078.973sft** Ellip. Ht: **974.988sft** Geoid12B

**Iowa North Zone (1401)** Northing: **3650727.922sft** Easting: **5064784.379sft**  
 Mapping Angle: **0°21'39"** Combination Scale Factor: **0.9999023553**

**IaRCS Zone 5** Northing: **8851172.612sft** Easting: **15306510.679sft**  
 Mapping Angle: **-0°29'10"** Combination Scale Factor: **0.9999882078**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7019**

**Designation:** Grundy Co 7019 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°33'21.76320"** Longitude: **W92°58'00.46162"**

NAVD 88 Ortho Height: **1085.950sft** Ellip. Ht: **982.186sft** Geoid**12B**

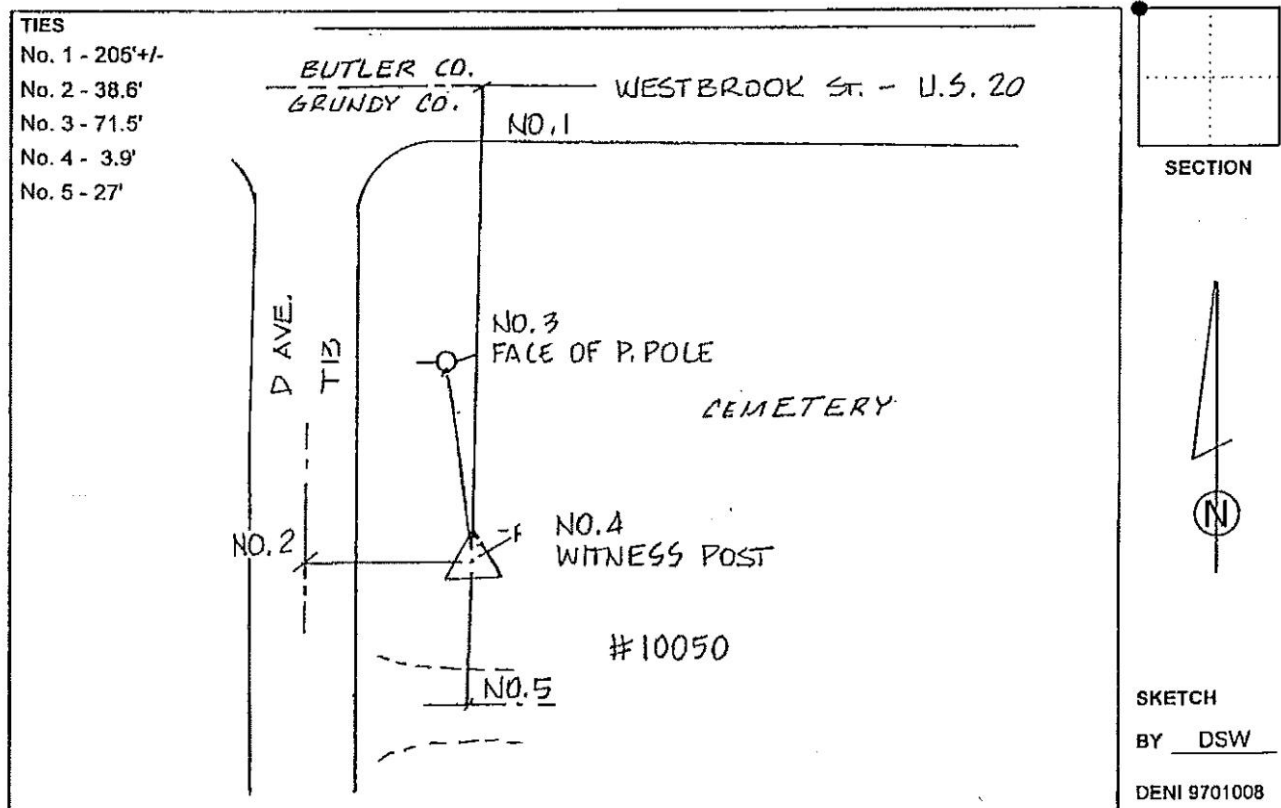
**Iowa North Zone (1401)** Northing: **3666133.008sft** Easting: **5064908.406sft**

Mapping Angle: **0°21'41"** Combination Scale Factor: **0.9999003106**

**IaRCS Zone 5** Northing: **8866575.506sft** Easting: **15306862.452sft**

Mapping Angle: **-0°29'08"** Combination Scale Factor: **0.9999863889**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7020**

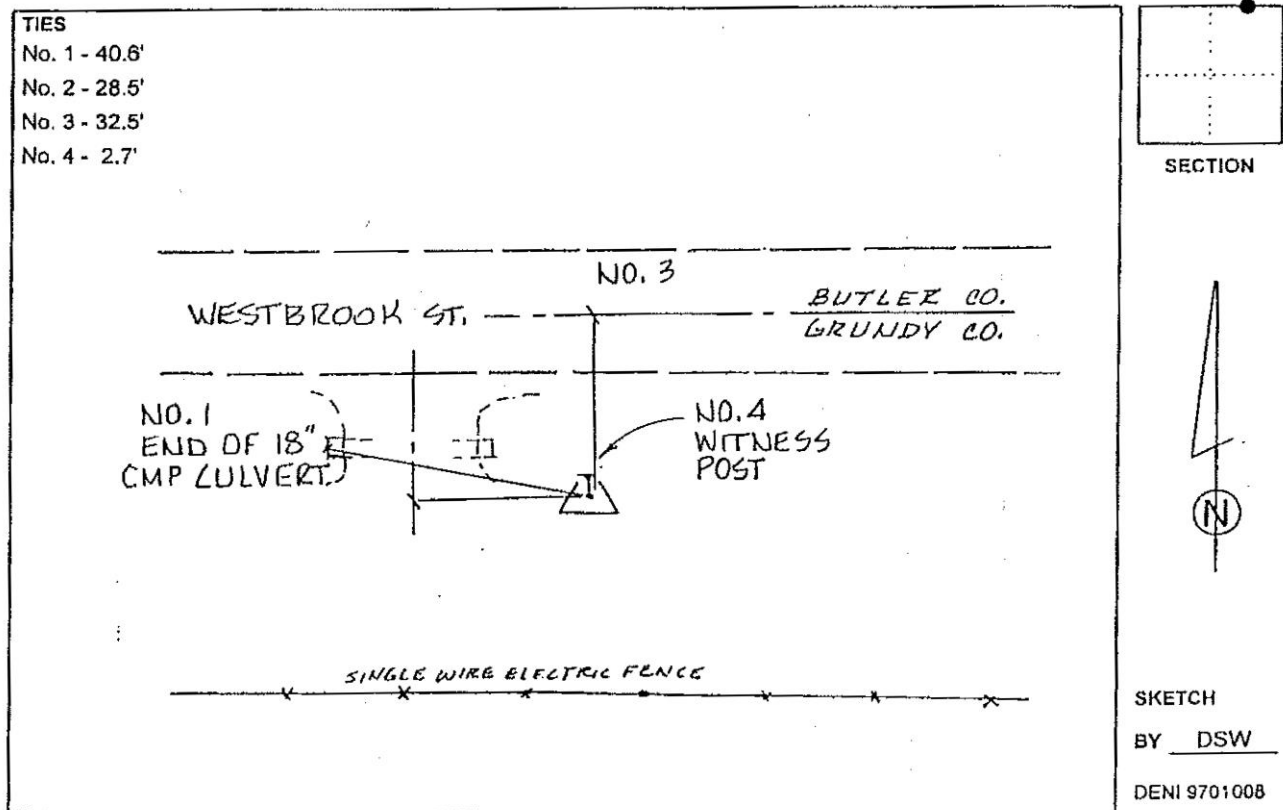
**Designation:** Grundy Co 7020 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°33'22.17091"** Longitude: **W92°54'48.16301"**  
 NAVD 88 Ortho Height: **1016.277sft** Ellip. Ht: **912.058sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3666269.598sft** Easting: **5079299.543sft**  
 Mapping Angle: **0°23'51"** Combination Scale Factor: **0.9999036586**

**IaRCS Zone 5** Northing: **8866499.333sft** Easting: **15321255.274sft**  
 Mapping Angle: **-0°26'58"** Combination Scale Factor: **0.9999897377**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7021**

**Designation:** Grundy Co 7021 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°30'51.09483"** Longitude: **W92°54'56.10819"**

NAVD 88 Ortho Height: **1028.170sft** Ellip. Ht: **923.798sft** Geoid**12B**

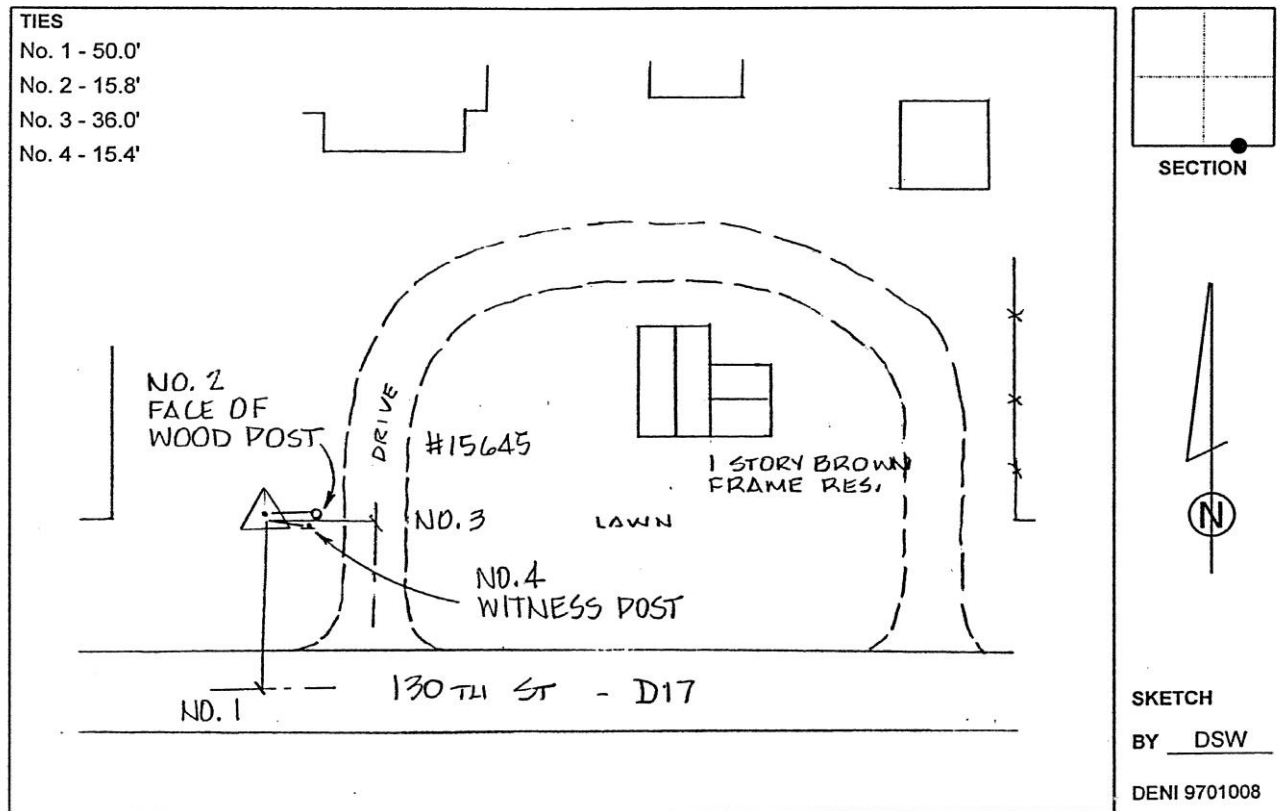
**Iowa North Zone (1401)** Northing: **3650972.408sft** Easting: **5078810.659sft**

Mapping Angle: **0°23'46"** Combination Scale Factor: **0.9999047825**

**IaRCS Zone 5** Northing: **8851209.727sft** Easting: **15320540.245sft**

Mapping Angle: **-0°27'03"** Combination Scale Factor: **0.9999906375**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7022**

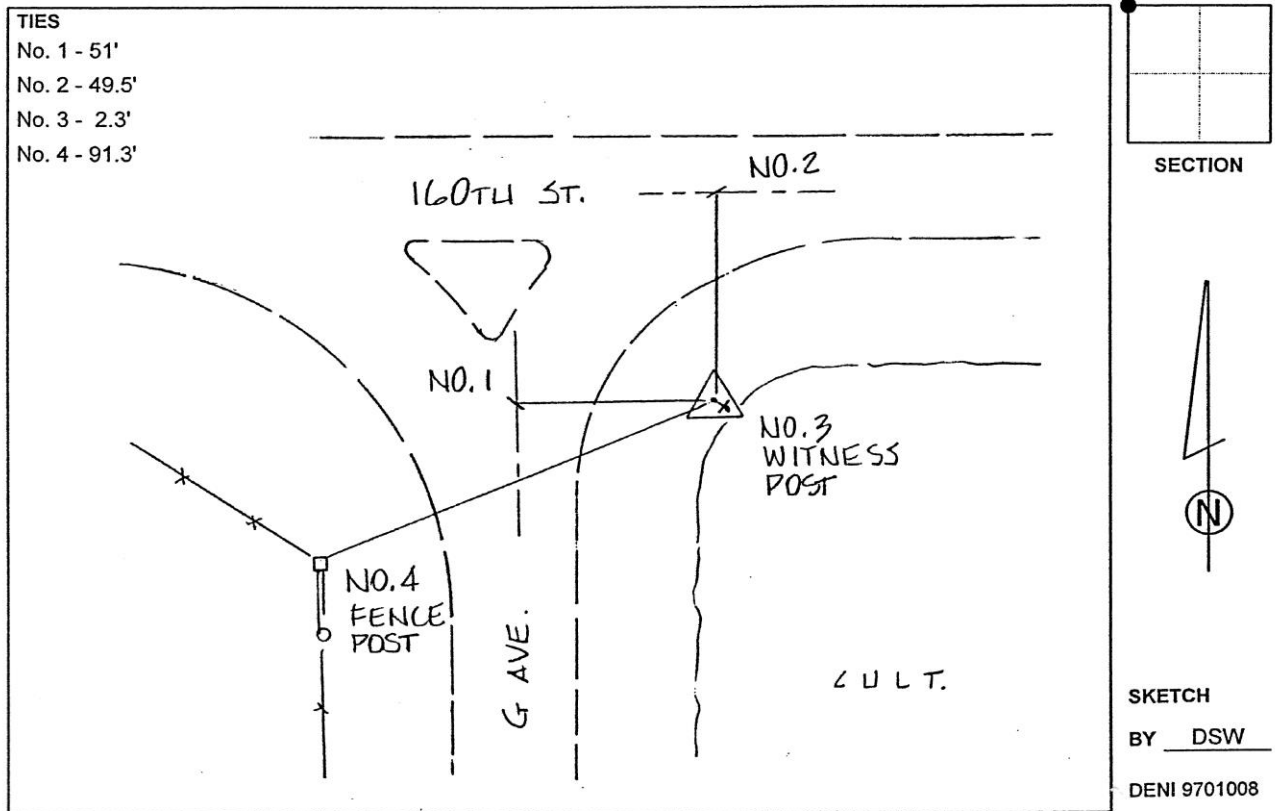
**Designation:** Grundy Co 7022 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°28'13.36791"** Longitude: **W92°54'20.60993"**  
 NAVD 88 Ortho Height: **1052.970sft** Ellip. Ht: **948.441sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3635024.722sft** Easting: **5081581.321sft**  
 Mapping Angle: **0°24'10"** Combination Scale Factor: **0.9999059328**

**IaRCS Zone 5** Northing: **8835221.454sft** Easting: **15323075.068sft**  
 Mapping Angle: **-0°26'39"** Combination Scale Factor: **0.9999915538**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7023**

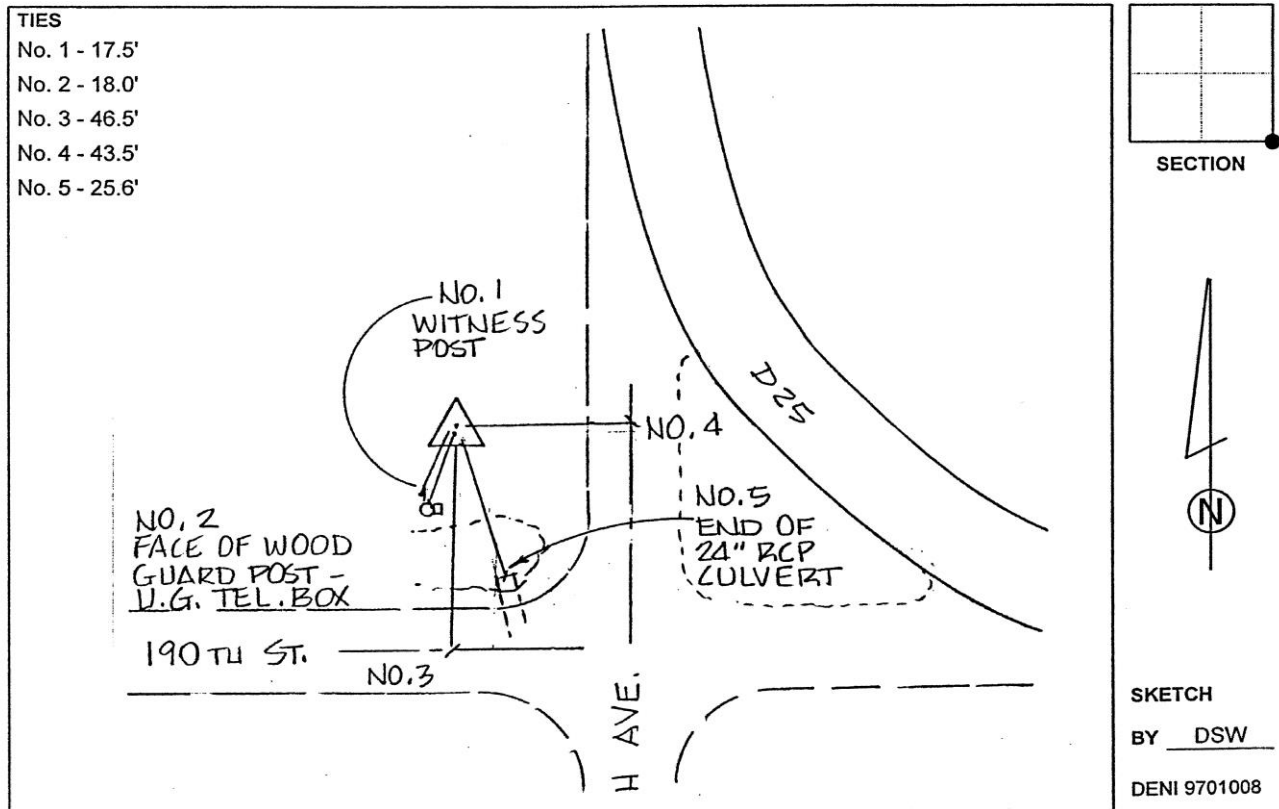
**Designation:** Grundy Co 7023 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°25'37.62424"** Longitude: **W92°53'11.50874"**  
 NAVD 88 Ortho Height: **1071.020sft** Ellip. Ht: **966.392sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3619296.357sft** Easting: **5086874.256sft**  
 Mapping Angle: **0°24'57"** Combination Scale Factor: **0.9999079434**

**IaRCS Zone 5** Northing: **8819415.211sft** Easting: **15328135.345sft**  
 Mapping Angle: **-0°25'53"** Combination Scale Factor: **0.9999933337**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7024**

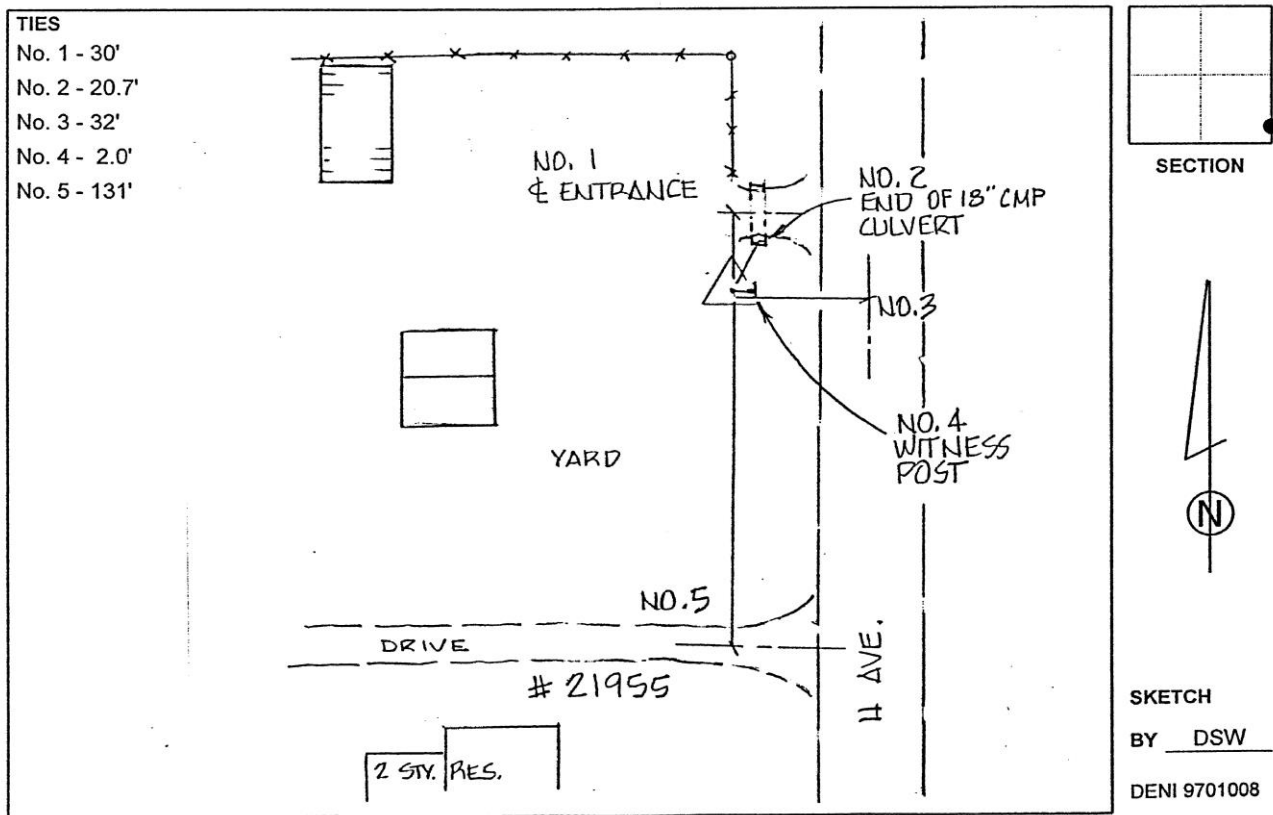
**Designation:** Grundy Co 7024 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°23'04.92611"** Longitude: **W92°53'10.28631"**  
 NAVD 88 Ortho Height: **1093.960sft** Ellip. Ht: **989.344sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3603840.024sft** Easting: **5087078.160sft**  
 Mapping Angle: **0°24'58"** Combination Scale Factor: **0.9999102083**

**IaRCS Zone 5** Northing: **8803956.234sft** Easting: **15328110.733sft**  
 Mapping Angle: **-0°25'52"** Combination Scale Factor: **0.9999953725**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

Point Name: **7025**

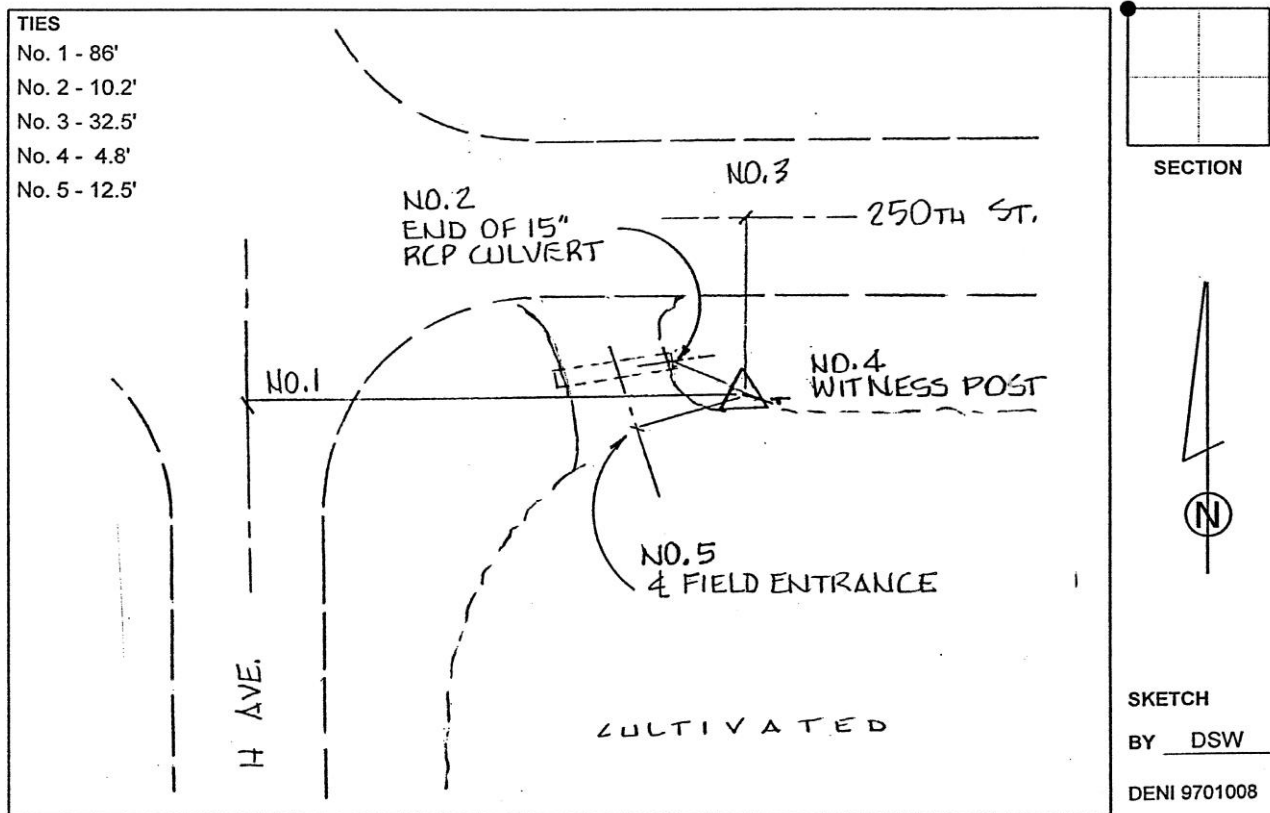
**Designation:** Grundy Co 7025 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°20'22.37222"** Longitude: **W92°53'07.74932"**  
NAVD 88 Ortho Height: **1087.090sft** Ellip. Ht: **982.531sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3587386.815sft** Easting: **5087388.156sft**  
Mapping Angle: **0°24'59"** Combination Scale Factor: **0.9999147100**

**IaRCS Zone 5** Northing: **8787498.841sft** Easting: **15328177.472sft**  
Mapping Angle: **-0°25'50"** Combination Scale Factor: **0.9999996339**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7026**

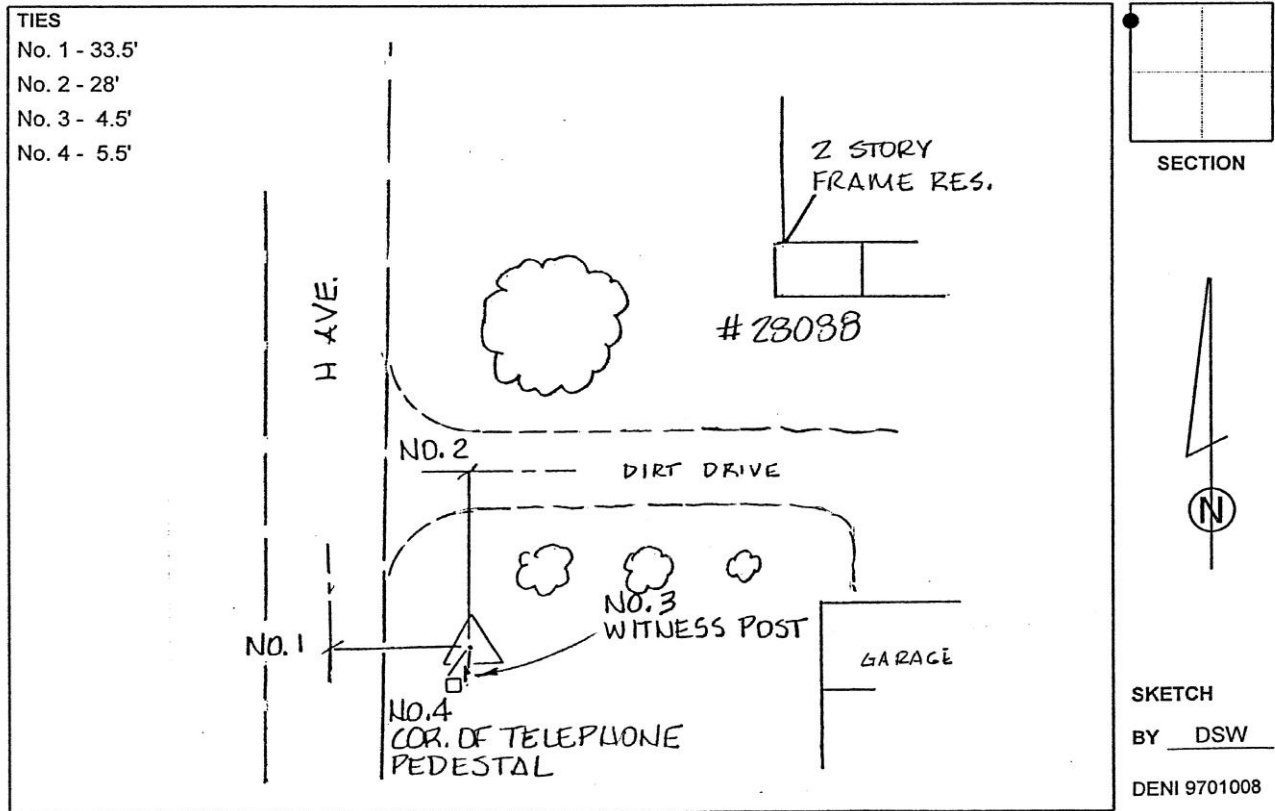
**Designation:** Grundy Co 7026 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°17'42.36261"** Longitude: **W92°53'07.38072"**  
 NAVD 88 Ortho Height: **1092.617sft** Ellip. Ht: **988.122sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3571190.025sft** Easting: **5087533.595sft**  
 Mapping Angle: **0°25'00"** Combination Scale Factor: **0.9999191547**

**IaRCS Zone 5** Northing: **8771300.297sft** Easting: **15328083.449sft**  
 Mapping Angle: **-0°25'50"** Combination Scale Factor: **1.0000038422**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

Point Name: **7027**

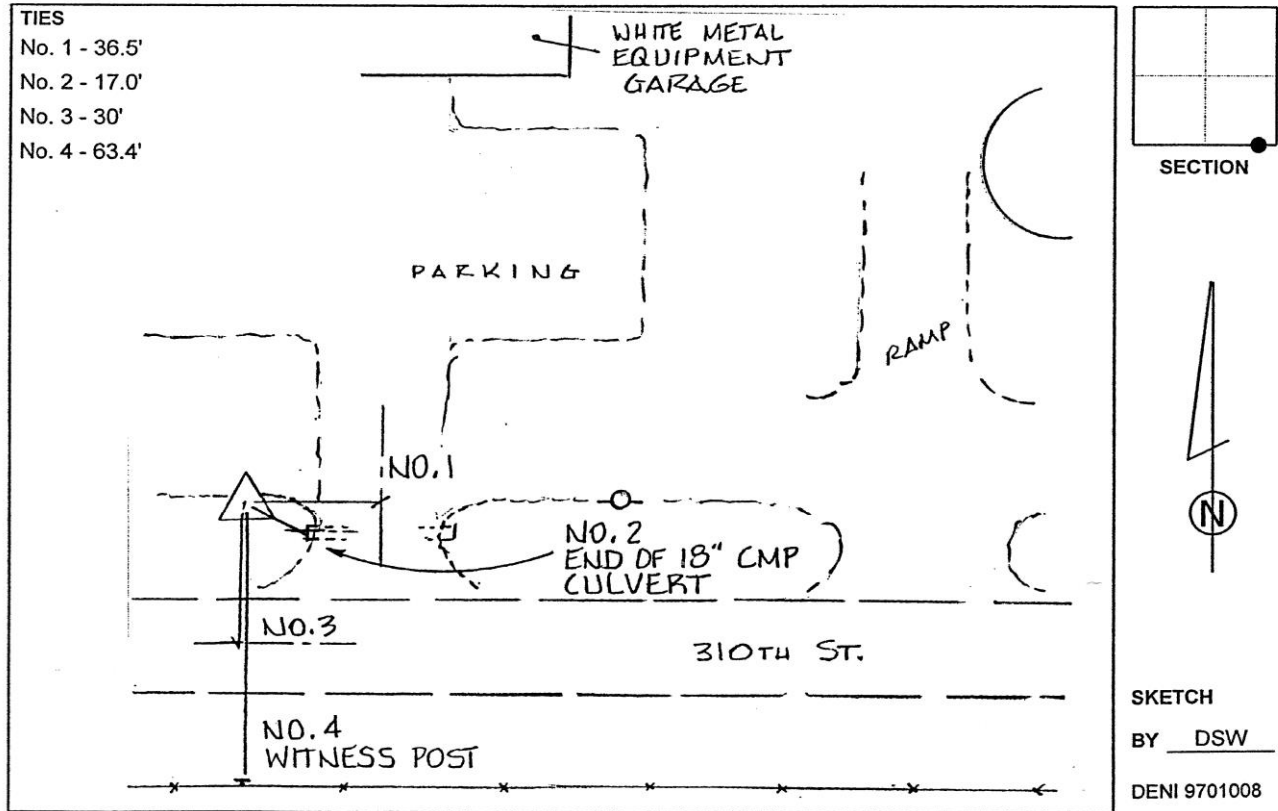
**Designation:** Grundy Co 7027 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°15'12.23179"** Longitude: **W92°53'12.43522"**  
NAVD 88 Ortho Height: **1022.437sft** Ellip. Ht: **917.998sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3555990.297sft** Easting: **5087263.979sft**  
Mapping Angle: **0°24'56"** Combination Scale Factor: **0.9999274694**

**IaRCS Zone 5** Northing: **8756104.931sft** Easting: **15327589.123sft**  
Mapping Angle: **-0°25'53"** Combination Scale Factor: **1.0000119357**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7028**

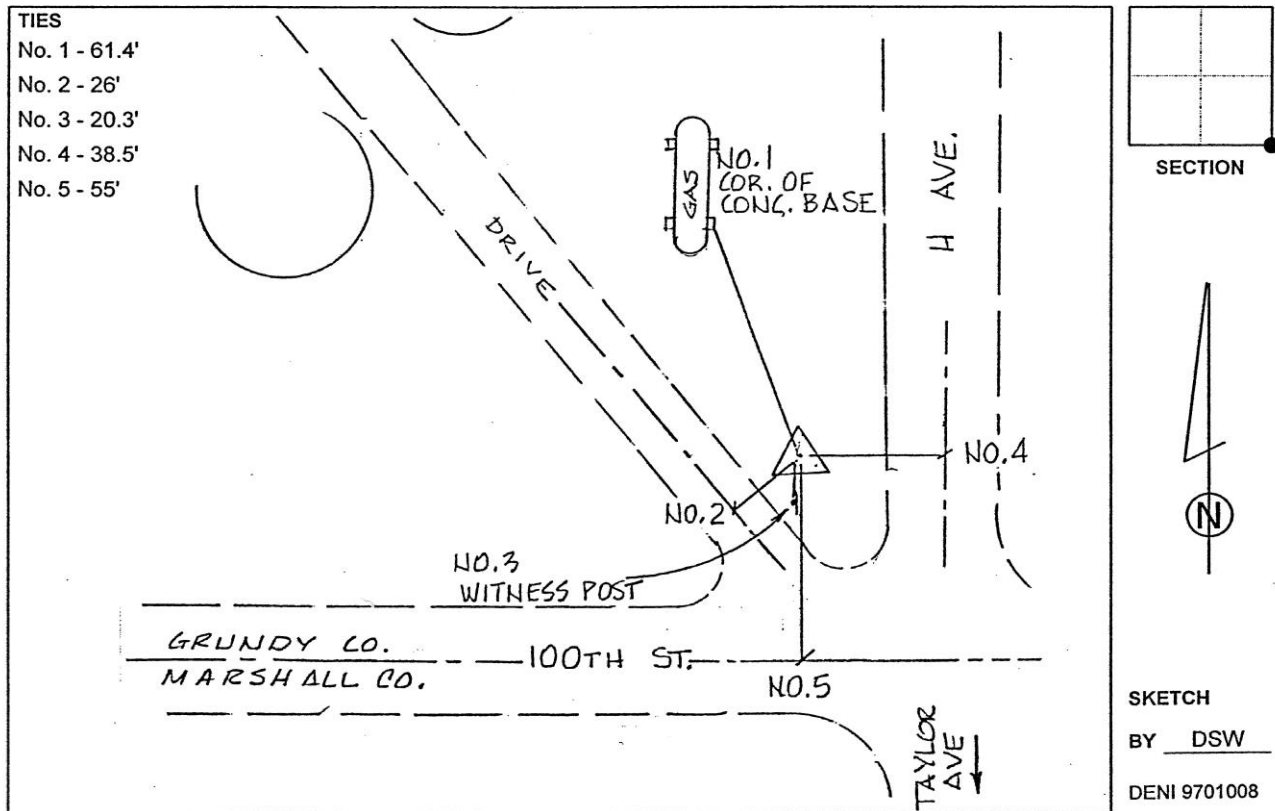
**Designation:** Grundy Co 7028 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°12'36.55161"** Longitude: **W92°53'06.52825"**  
 NAVD 88 Ortho Height: **1054.010sft** Ellip. Ht: **949.659sft** Geoid12B

**Iowa North Zone (1401)** Northing: **3540234.856sft** Easting: **5087822.804sft**  
 Mapping Angle: **0°25'00"** Combination Scale Factor: **0.9999316562**

**IaRCS Zone 5** Northing: **8740341.620sft** Easting: **15327915.001sft**  
 Mapping Angle: **-0°25'49"** Combination Scale Factor: **1.0000158928**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7029**

**Designation:** Grundy Co 7029 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°12'36.77629"** Longitude: **W92°49'15.32130"**

NAVD 88 Ortho Height: **1031.100sft** Ellip. Ht: **926.600sft** Geoid**12B**

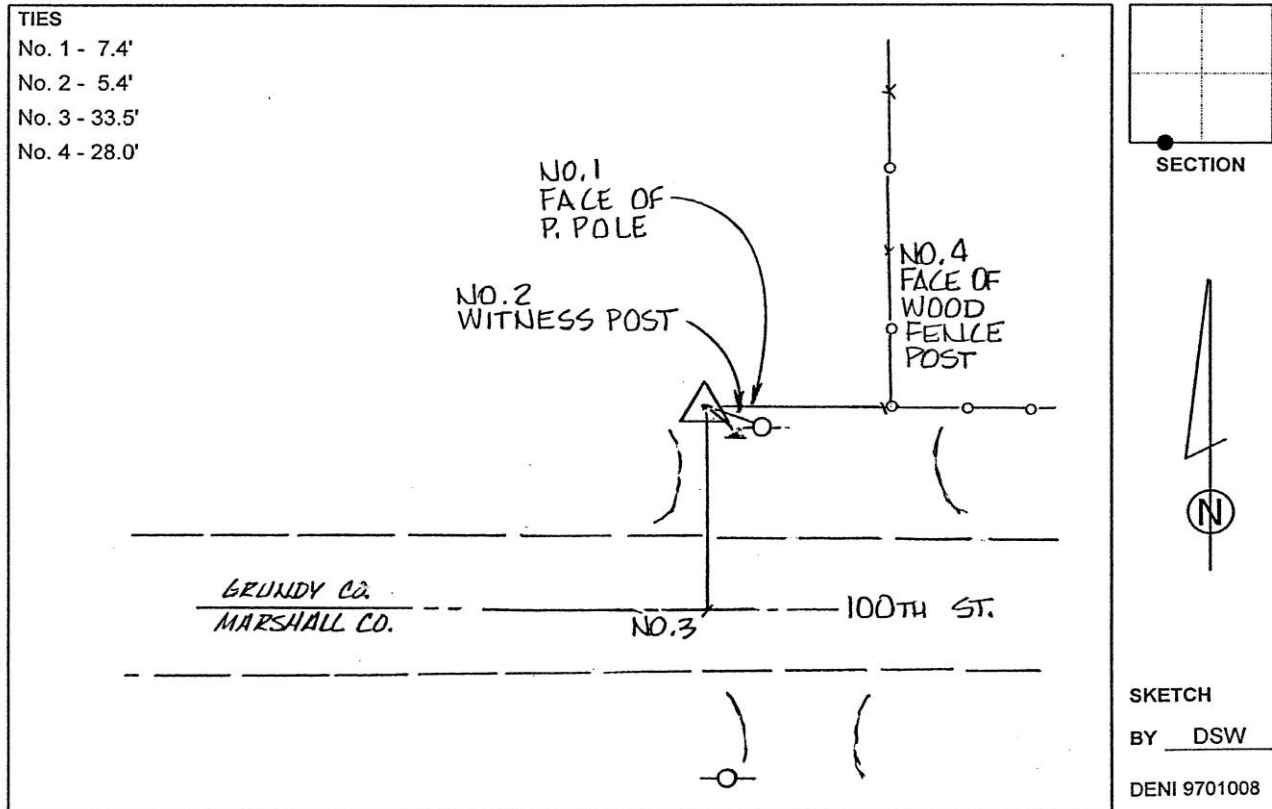
**Iowa North Zone (1401)** Northing: **3540390.753sft** Easting: **5105221.533sft**

Mapping Angle: **0°27'37"** Combination Scale Factor: **0.9999327497**

**IaRCS Zone 5** Northing: **8740240.283sft** Easting: **15345315.599sft**

Mapping Angle: **-0°23'13"** Combination Scale Factor: **1.0000169868**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7030**

**Designation:** Grundy Co 7030 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°15'12.99257"** Longitude: **W92°49'35.45759"**

NAVD 88 Ortho Height: **1060.430sft** Ellip. Ht: **955.854sft** Geoid**12B**

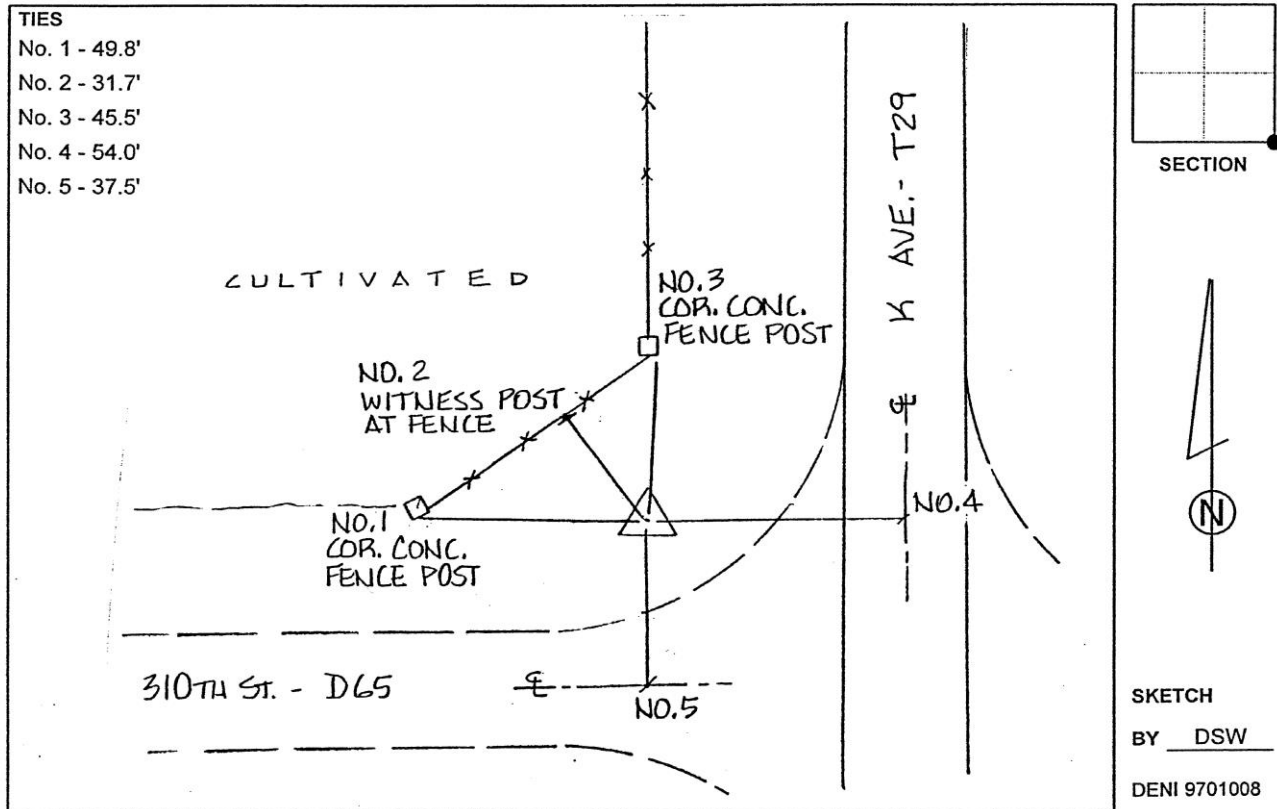
**Iowa North Zone (1401)** Northing: **3556191.482sft** Easting: **5103580.255sft**

Mapping Angle: **0°27'23"** Combination Scale Factor: **0.9999256334**

**IaRCS Zone 5** Northing: **8756064.884sft** Easting: **15343907.969sft**

Mapping Angle: **-0°23'26"** Combination Scale Factor: **1.0000101007**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

Point Name: **7031**

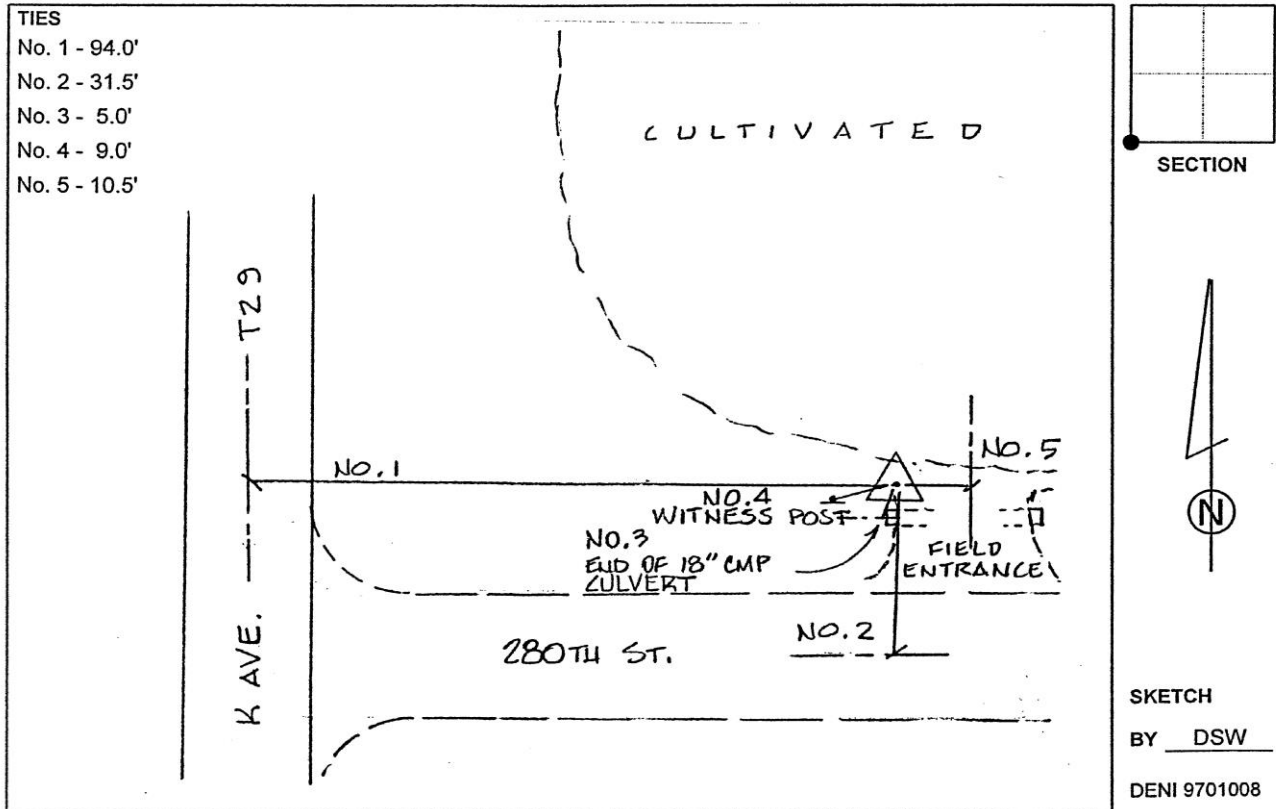
**Designation:** Grundy Co 7031 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°17'47.73330"** Longitude: **W92°49'33.06590"**  
NAVD 88 Ortho Height: **1076.065sft** Ellip. Ht: **971.435sft** Geoid**12B**

**Iowa North Zone (1401)** Northing: **3571856.438sft** Easting: **5103635.201sft**  
Mapping Angle: **0°27'25"** Combination Scale Factor: **0.9999197844**

**IaRCS Zone 5** Northing: **8771728.641sft** Easting: **15344194.512sft**  
Mapping Angle: **-0°23'25"** Combination Scale Factor: **1.0000044799**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7032**

**Designation:** Grundy Co 7032 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°20'23.91369"** Longitude: **W92°49'55.56611"**

NAVD 88 Ortho Height: **1077.460sft** Ellip. Ht: **972.783sft** **Geoid12B**

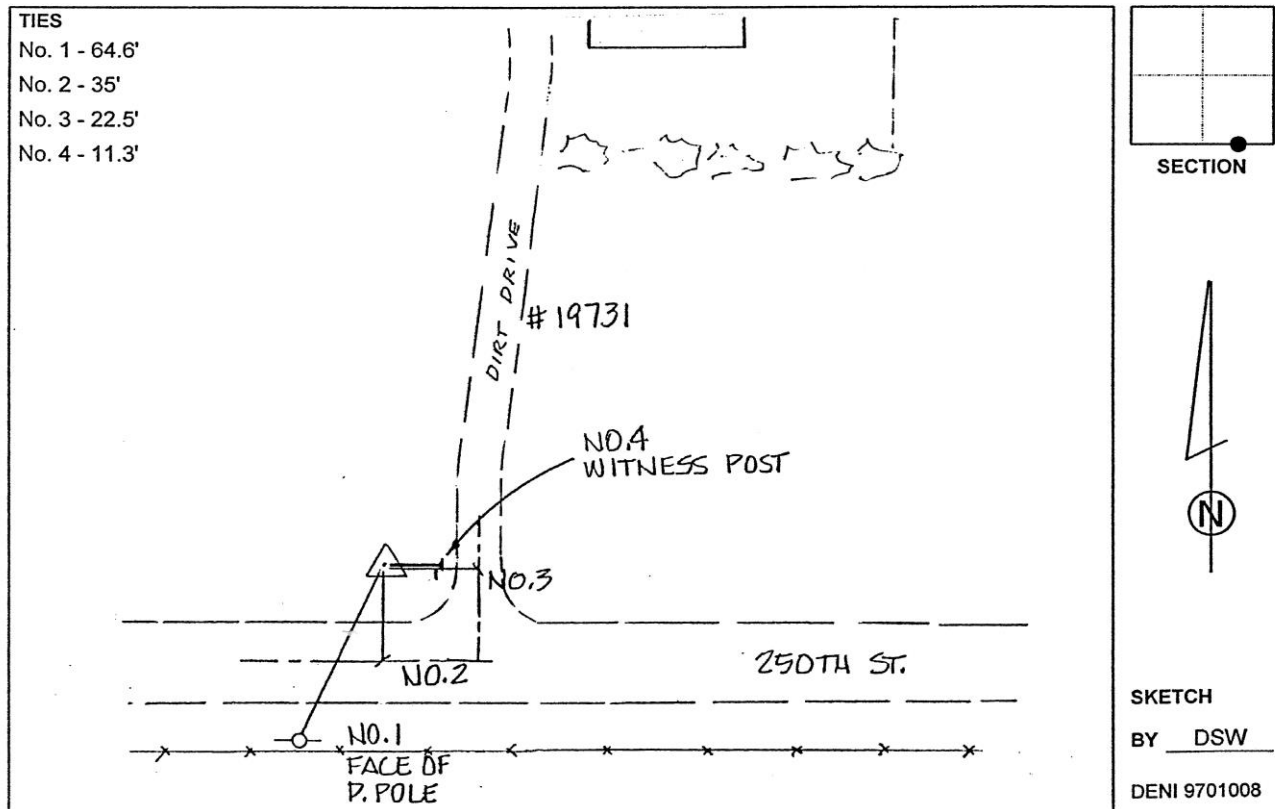
**Iowa North Zone (1401)** Northing: **3587652.319sft** Easting: **5101819.431sft**

Mapping Angle: **0°27'10"** Combination Scale Factor: **0.9999151334**

**IaRCS Zone 5** Northing: **8787550.981sft** Easting: **15342612.321sft**

Mapping Angle: **-0°23'40"** Combination Scale Factor: **1.0000000597**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7033**

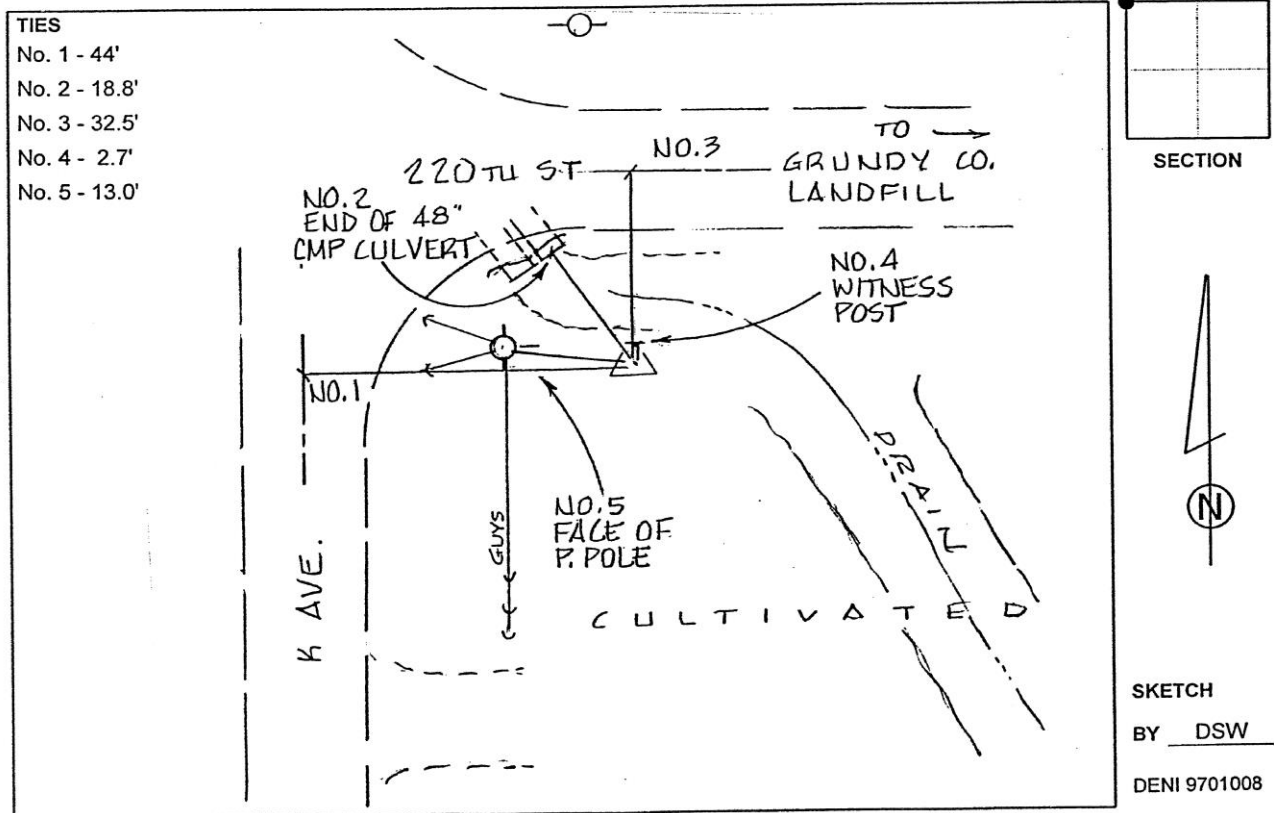
**Designation:** Grundy Co 7033 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°23'01.01428"** Longitude: **W92°49'35.78539"**  
 NAVD 88 Ortho Height: **1026.160sft** Ellip. Ht: **921.433sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3603566.598sft** Easting: **5103178.229sft**  
 Mapping Angle: **0°27'23"** Combination Scale Factor: **0.9999135475**

**IaRCS Zone 5** Northing: **8803444.784sft** Easting: **15344206.371sft**  
 Mapping Angle: **-0°23'26"** Combination Scale Factor: **0.9999987062**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7034**

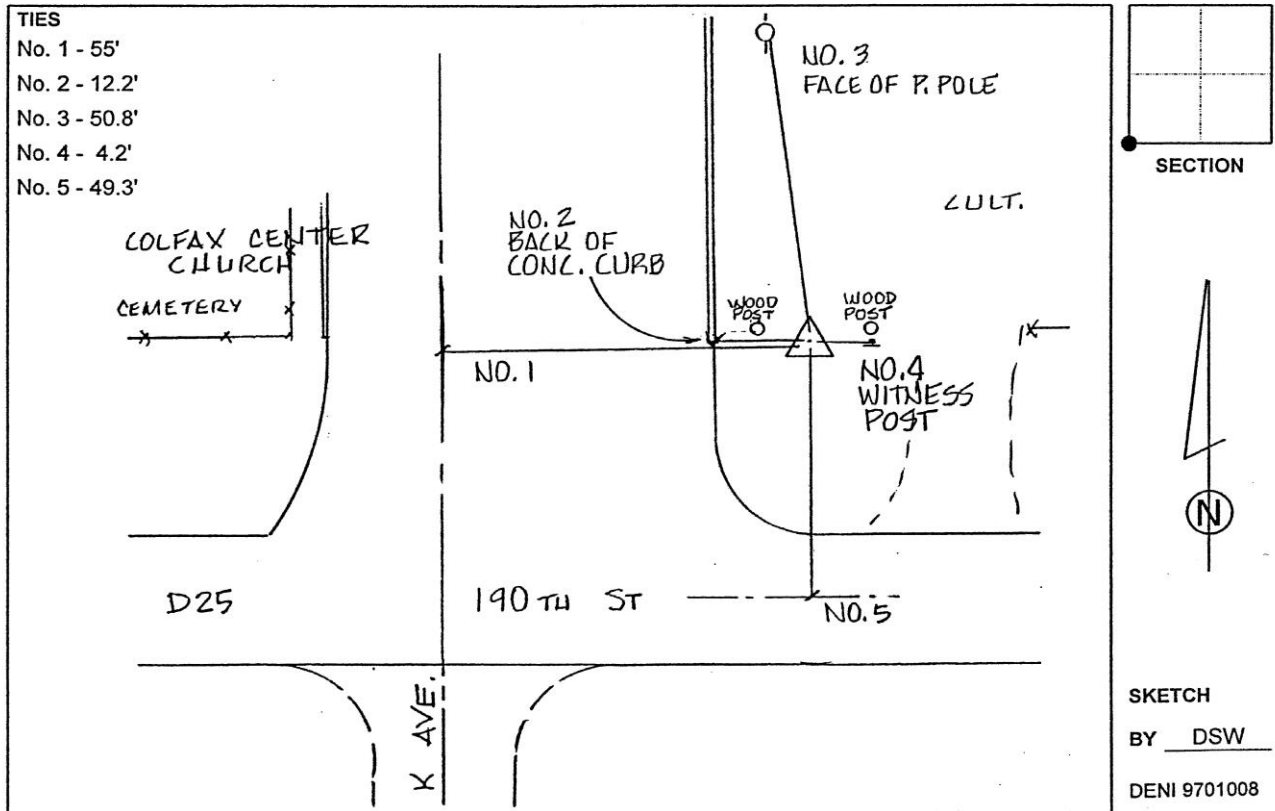
**Designation:** Grundy Co 7034 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°25'37.77899"** Longitude: **W92°49'36.58560"**  
 NAVD 88 Ortho Height: **1083.203sft** Ellip. Ht: **978.486sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3619434.677sft** Easting: **5102991.816sft**  
 Mapping Angle: **0°27'22"** Combination Scale Factor: **0.9999073622**

**IaRCS Zone 5** Northing: **8819315.238sft** Easting: **15344254.565sft**  
 Mapping Angle: **-0°23'27"** Combination Scale Factor: **0.9999927527**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

Point Name: **7035**

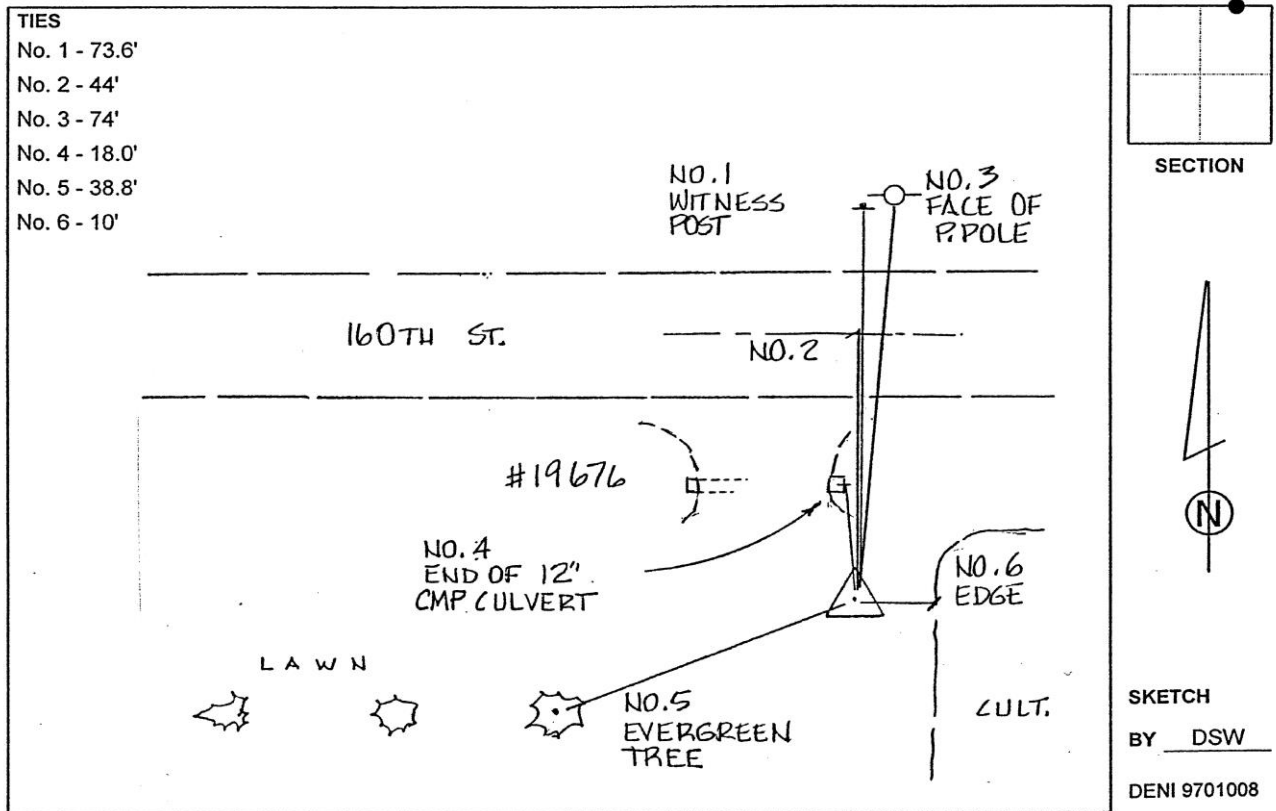
**Designation:** Grundy Co 7035 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°28'12.51098"** Longitude: **W92°49'56.43980"**  
NAVD 88 Ortho Height: **1052.630sft** Ellip. Ht: **947.952sft** Geoid12B

**Iowa North Zone (1401)** Northing: **3635085.740sft** Easting: **5101379.197sft**  
Mapping Angle: **0°27'09"** Combination Scale Factor: **0.9999059704**

**IaRCS Zone 5** Northing: **8834989.771sft** Easting: **15342873.378sft**  
Mapping Angle: **-0°23'40"** Combination Scale Factor: **0.9999915902**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

Point Name: **7036**

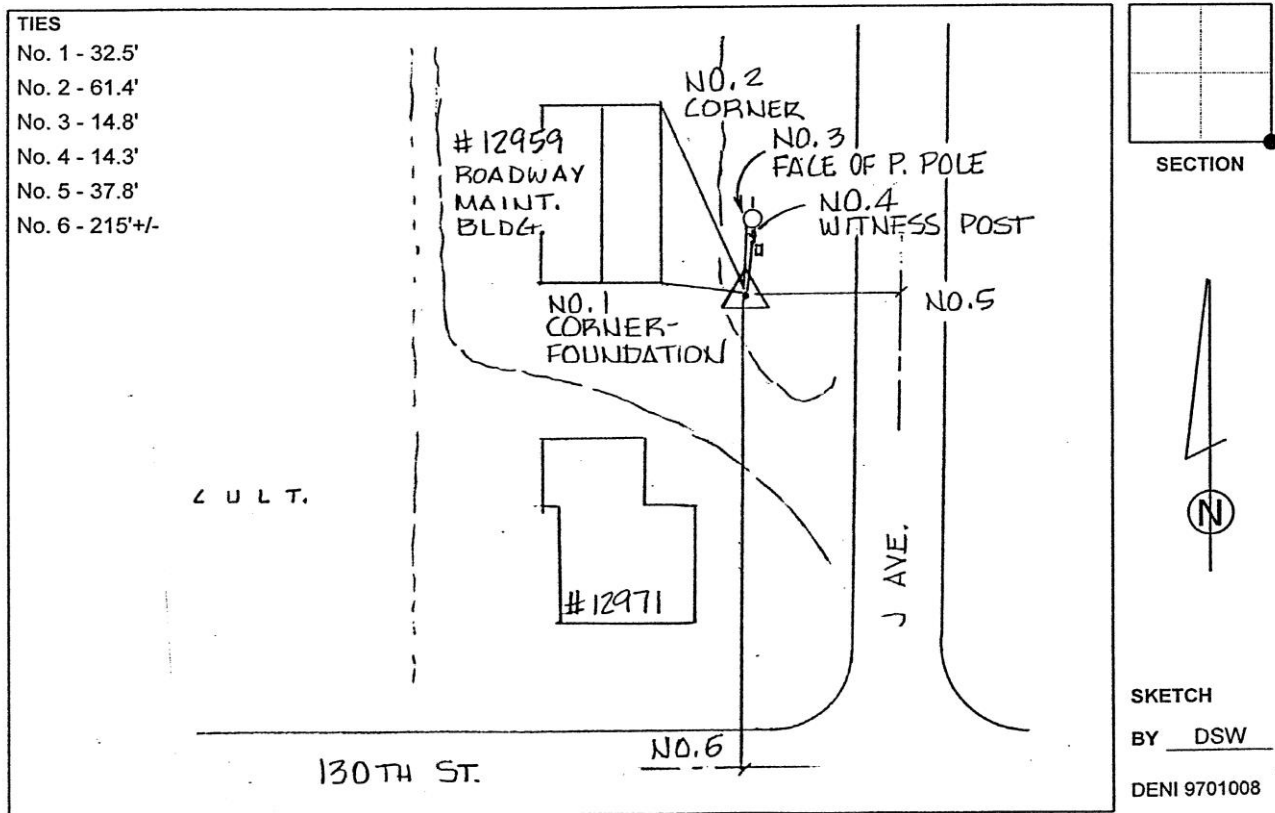
**Designation:** Grundy Co 7036 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°30'51.99381"** Longitude: **W92°50'58.96470"**  
NAVD 88 Ortho Height: **971.390sft** Ellip. Ht: **866.785sft** Geoid**12B**

**Iowa North Zone (1401)** Northing: **3651193.101sft** Easting: **5096569.324sft**  
Mapping Angle: **0°26'27"** Combination Scale Factor: **0.9999074959**

**IaRCS Zone 5** Northing: **8851167.865sft** Easting: **15338301.757sft**  
Mapping Angle: **-0°24'23"** Combination Scale Factor: **0.9999933524**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7037**

**Designation:** Grundy Co 7037 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°33'21.06945"** Longitude: **W92°50'55.72494"**

NAVD 88 Ortho Height: **1026.670sft** Ellip. Ht: **922.164sft** **Geoid12B**

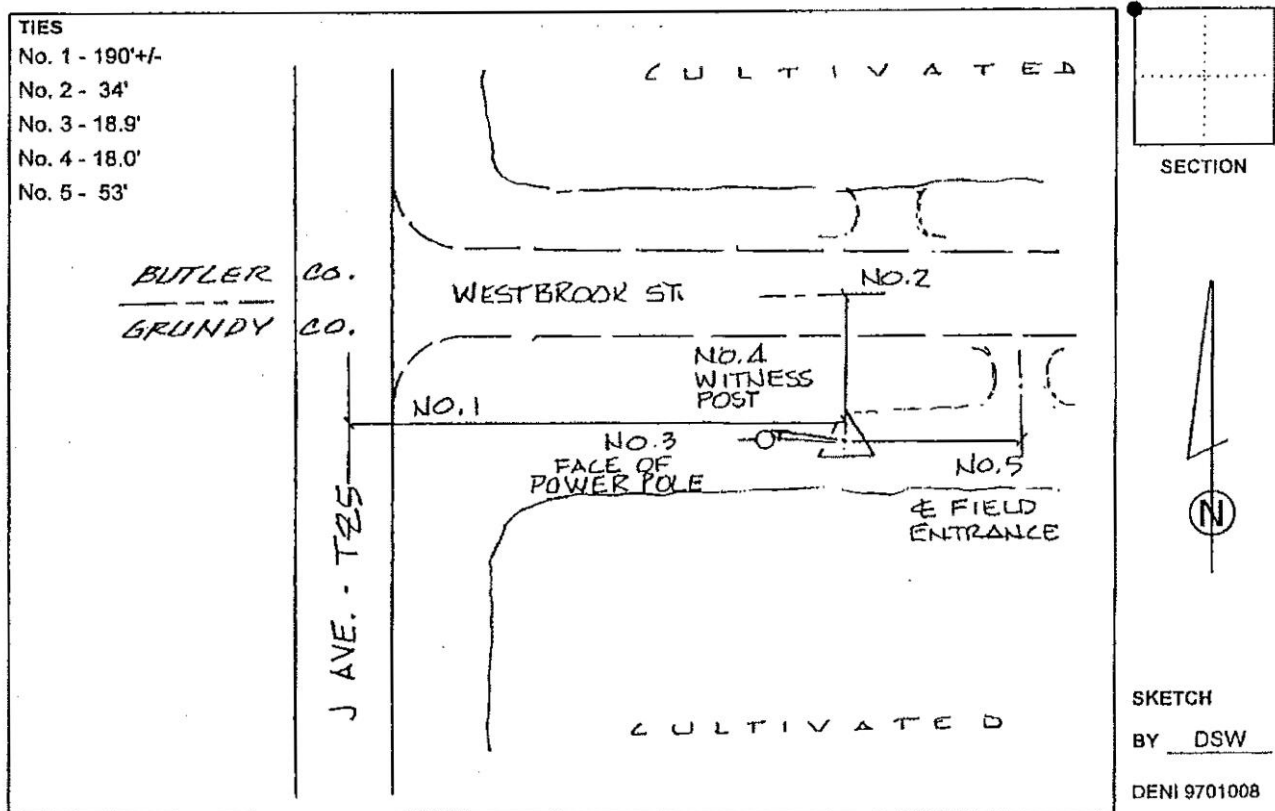
**Iowa North Zone (1401)** Northing: **3666285.452sft** Easting: **5096695.703sft**

Mapping Angle: **0°26'29"** Combination Scale Factor: **0.9999031859**

**IaRCS Zone 5** Northing: **8866257.996sft** Easting: **15338651.265sft**

Mapping Angle: **-0°24'21"** Combination Scale Factor: **0.9999892634**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

Point Name: **7038**

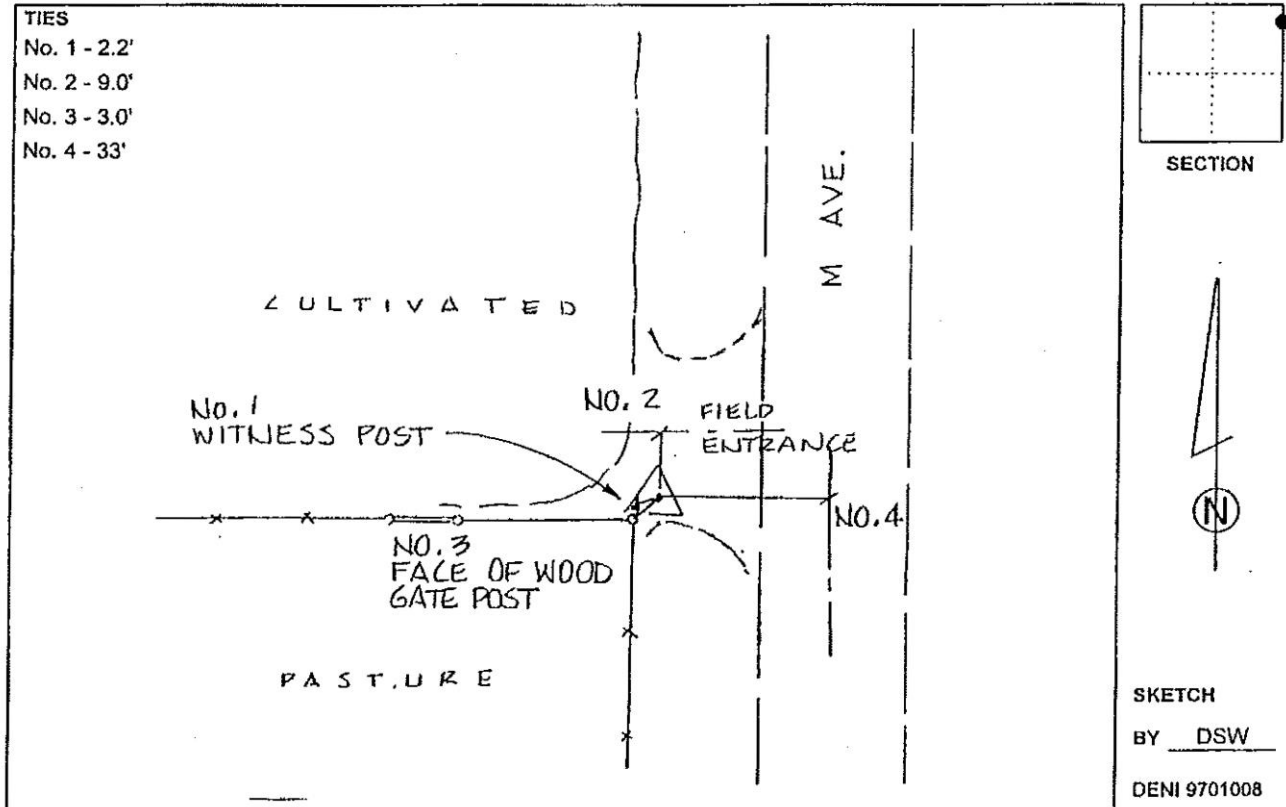
**Designation:** Grundy Co 7038 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°33'14.15117"** Longitude: **W92°47'26.70050"**  
NAVD 88 Ortho Height: **1019.530sft** Ellip. Ht: **914.969sft** Geoid12B

**Iowa North Zone (1401)** Northing: **3665711.007sft** Easting: **5112344.630sft**  
Mapping Angle: **0°28'50"** Combination Scale Factor: **0.9999035955**

**IaRCS Zone 5** Northing: **8865452.201sft** Easting: **15354291.336sft**  
Mapping Angle: **-0°21'59"** Combination Scale Factor: **0.9999896627**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7039**

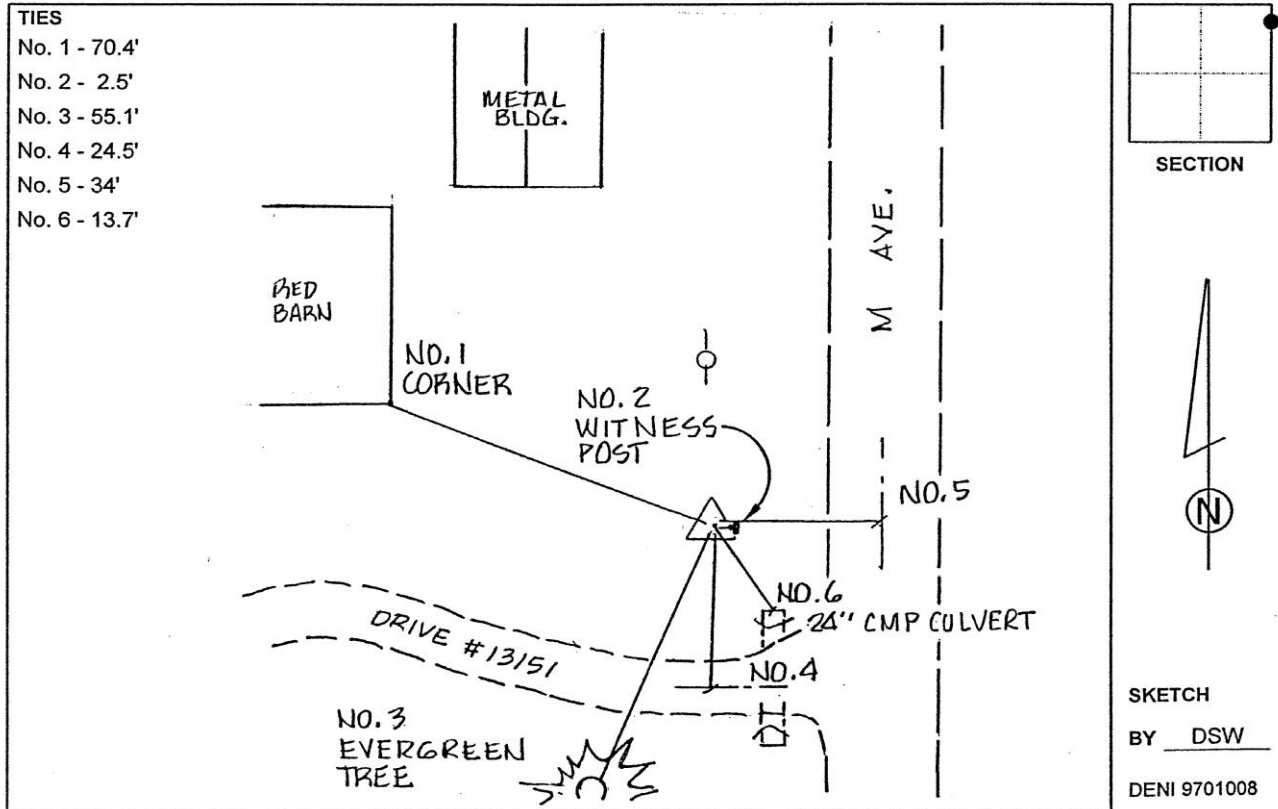
**Designation:** Grundy Co 7039 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°30'41.65676"** Longitude: **W92°47'26.46510"**  
 NAVD 88 Ortho Height: **1032.060sft** Ellip. Ht: **927.461sft** Geoid**12B**

**Iowa North Zone (1401)** Northing: **3650274.689sft** Easting: **5112491.768sft**  
 Mapping Angle: **0°28'51"** Combination Scale Factor: **0.9999047304**

**IaRCS Zone 5** Northing: **8850014.068sft** Easting: **15354210.250sft**  
 Mapping Angle: **-0°21'59"** Combination Scale Factor: **0.9999905713**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7040**

**Designation:** Grundy Co 7040 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°28'12.50390"** Longitude: **W92°47'01.93945"**

NAVD 88 Ortho Height: **1031.890sft** Ellip. Ht: **927.254sft** Geoid**12B**

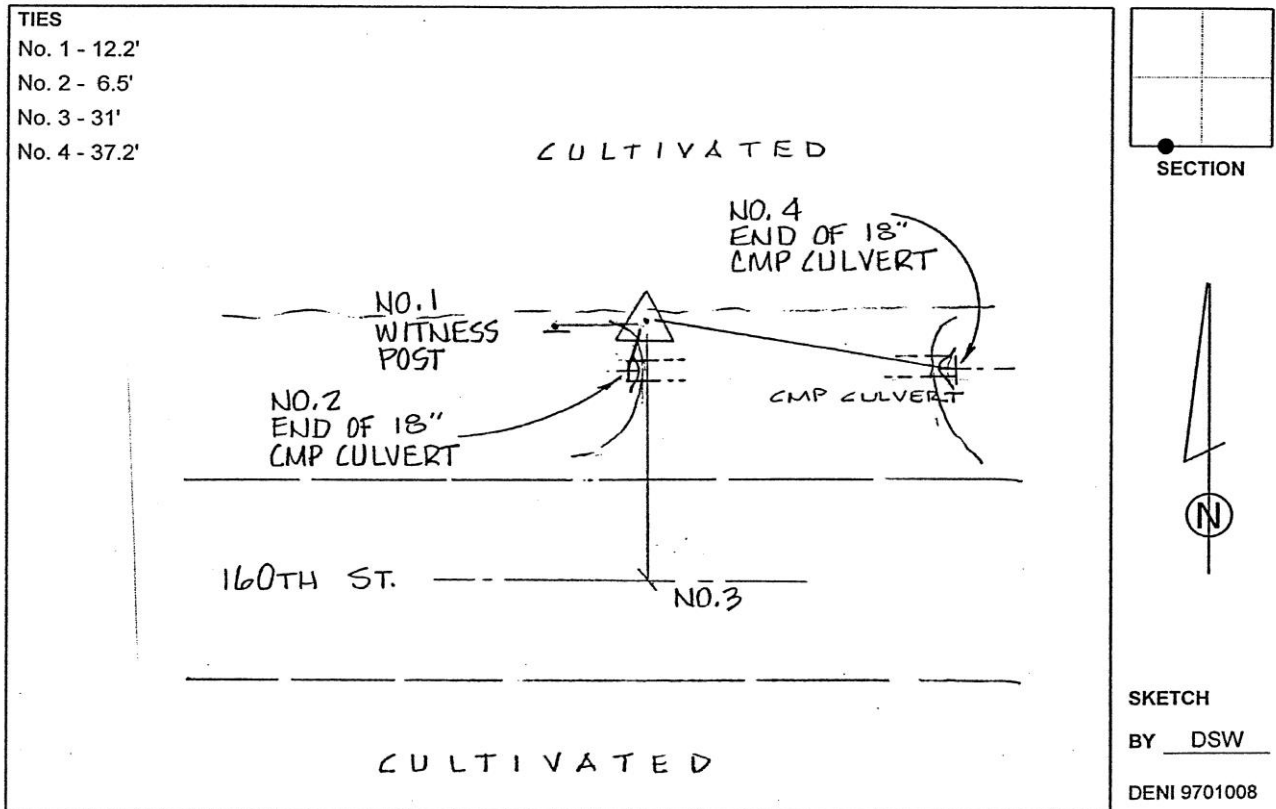
**Iowa North Zone (1401)** Northing: **3635192.053sft** Easting: **5114456.422sft**

Mapping Angle: **0°29'07"** Combination Scale Factor: **0.9999069598**

**IaRCS Zone 5** Northing: **8834902.741sft** Easting: **15355951.865sft**

Mapping Angle: **-0°21'42"** Combination Scale Factor: **0.9999925796**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7041**

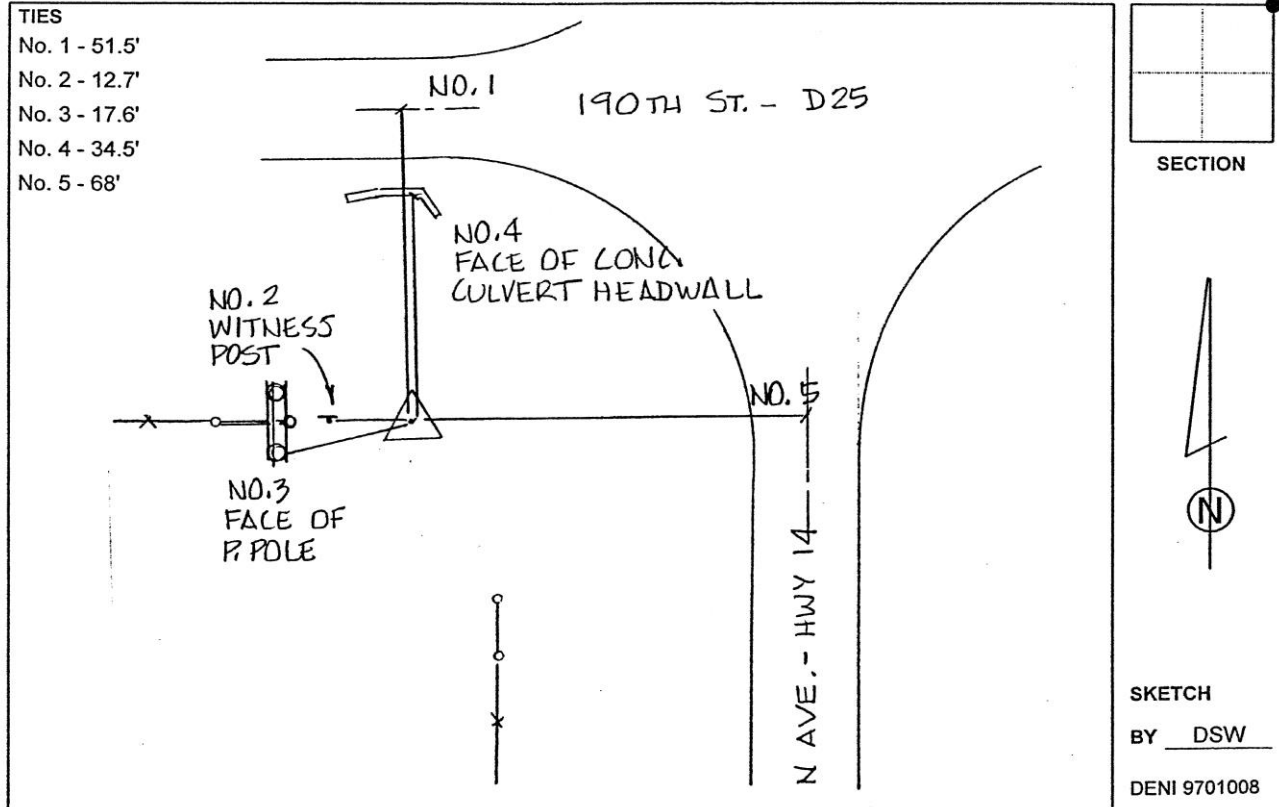
**Designation:** Grundy Co 7041 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°25'37.04962"** Longitude: **W92°46'07.76200"**  
 NAVD 88 Ortho Height: **1032.000sft** Ellip. Ht: **927.342sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3619490.921sft** Easting: **5118652.621sft**  
 Mapping Angle: **0°29'44"** Combination Scale Factor: **0.9999098215**

**IaRCS Zone 5** Northing: **8819139.942sft** Easting: **15359915.827sft**  
 Mapping Angle: **-0°21'05"** Combination Scale Factor: **0.9999952111**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7042**

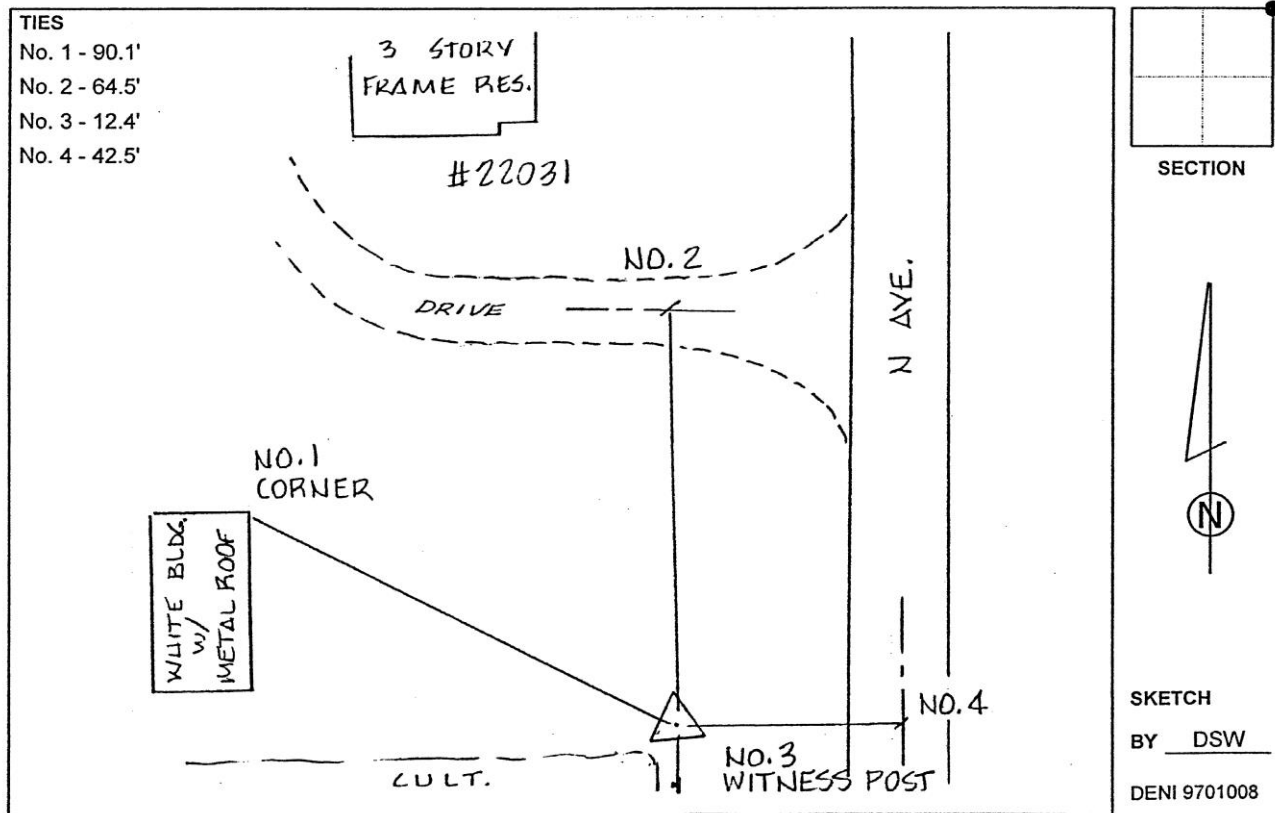
**Designation:** Grundy Co 7042 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°22'59.50009"** Longitude: **W92°46'06.57025"**  
 NAVD 88 Ortho Height: **1040.490sft** Ellip. Ht: **935.794sft** Geoid**12B**

**Iowa North Zone (1401)** Northing: **3603543.785sft** Easting: **5118879.992sft**  
 Mapping Angle: **0°29'45"** Combination Scale Factor: **0.9999128972**

**IaRCS Zone 5** Northing: **8803189.827sft** Easting: **15359907.418sft**  
 Mapping Angle: **-0°21'05"** Combination Scale Factor: **0.9999980536**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7043**

**Designation:** Grundy Co 7043 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°20'23.28200"** Longitude: **W92°46'03.05128"**

NAVD 88 Ortho Height: **1007.830sft** Ellip. Ht: **903.142sft** Geoid**12B**

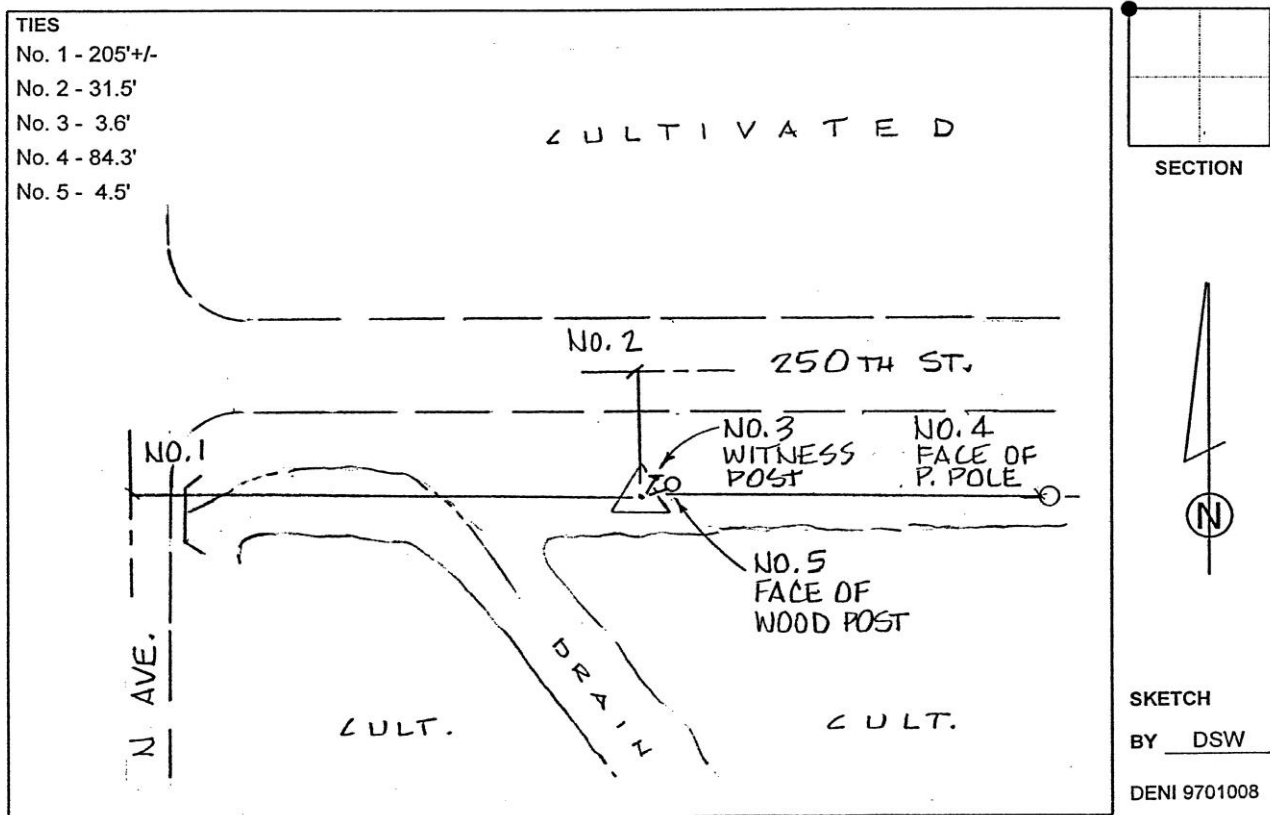
**Iowa North Zone (1401)** Northing: **3587733.002sft** Easting: **5119281.088sft**

Mapping Angle: **0°29'47"** Combination Scale Factor: **0.9999184795**

**IaRCS Zone 5** Northing: **8787373.497sft** Easting: **15360074.746sft**

Mapping Angle: **-0°21'02"** Combination Scale Factor: **1.0000034051**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

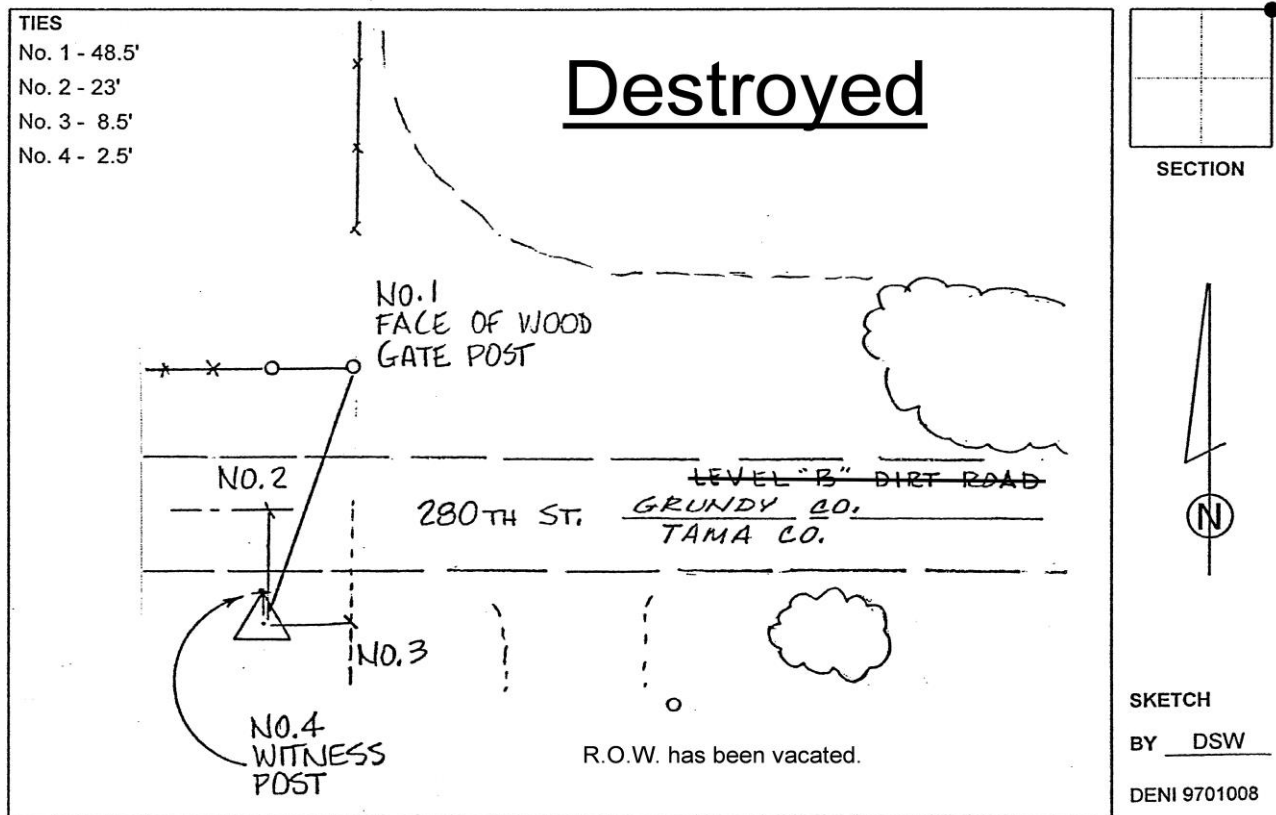
Point Name: **7044 (Destroyed)**

**Designation:** Grundy Co 7044 (Set by Deni Associates in 1997)

NAD 83(1996) Latitude: ~~42 17 47.72045N~~ Longitude: ~~92 46 04.94956W~~  
 NAVD 88 Ortho Height: ~~1054.510~~sft Ellip. Ht: ~~950.018~~sft

**Iowa North Zone (1401)** Northing: ~~3571985.210~~sft Easting: ~~5119274.870~~sft  
 Mapping Angle: ~~0 29 45.8~~ Combination Scale Factor: ~~0.9999662200~~

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7045**

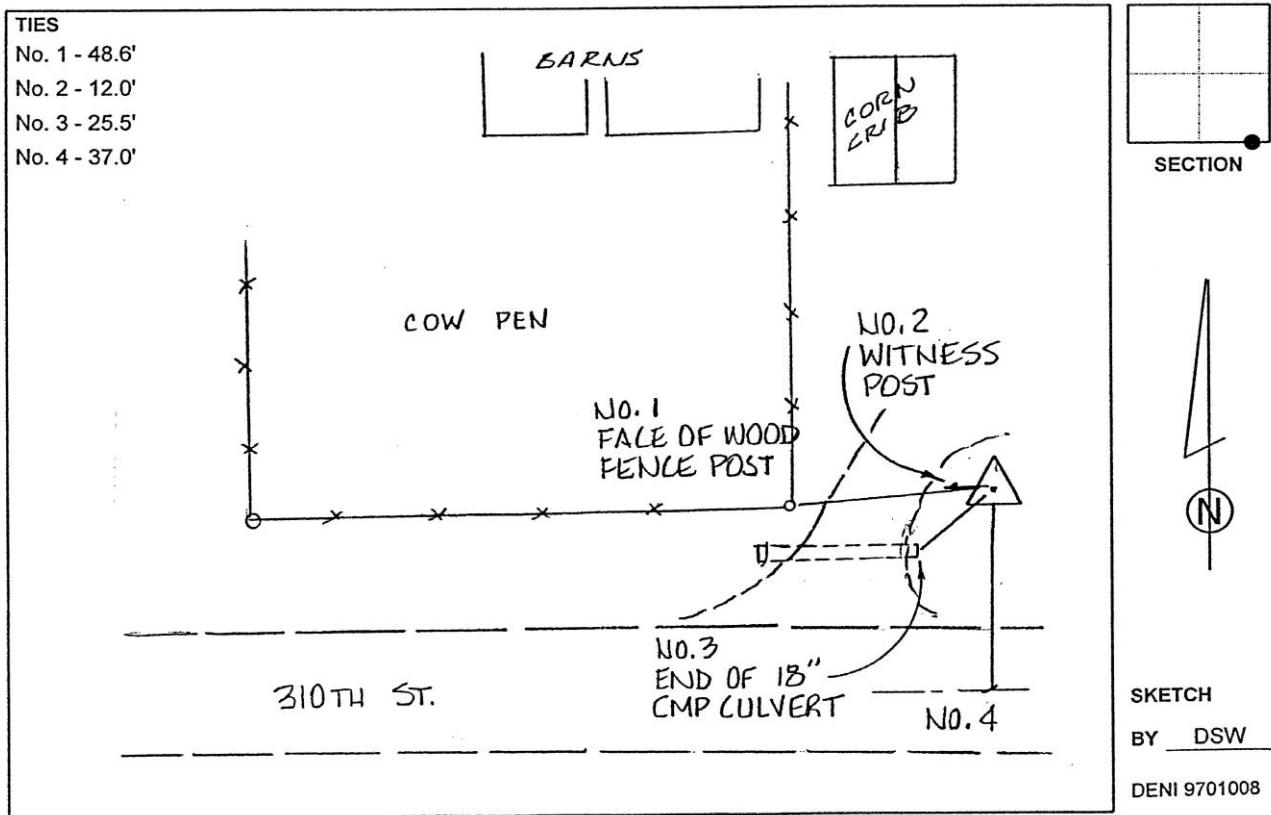
**Designation:** Grundy Co 7045 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°15'13.14555"** Longitude: **W92°46'17.88190"**  
 NAVD 88 Ortho Height: **1059.170sft** Ellip. Ht: **954.573sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3556330.158sft** Easting: **5118437.840sft**  
 Mapping Angle: **0°29'37"** Combination Scale Factor: **0.9999256894**

**IaRCS Zone 5** Northing: **8755983.892sft** Easting: **15358767.235sft**  
 Mapping Angle: **-0°21'12"** Combination Scale Factor: **1.0000101568**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7046**

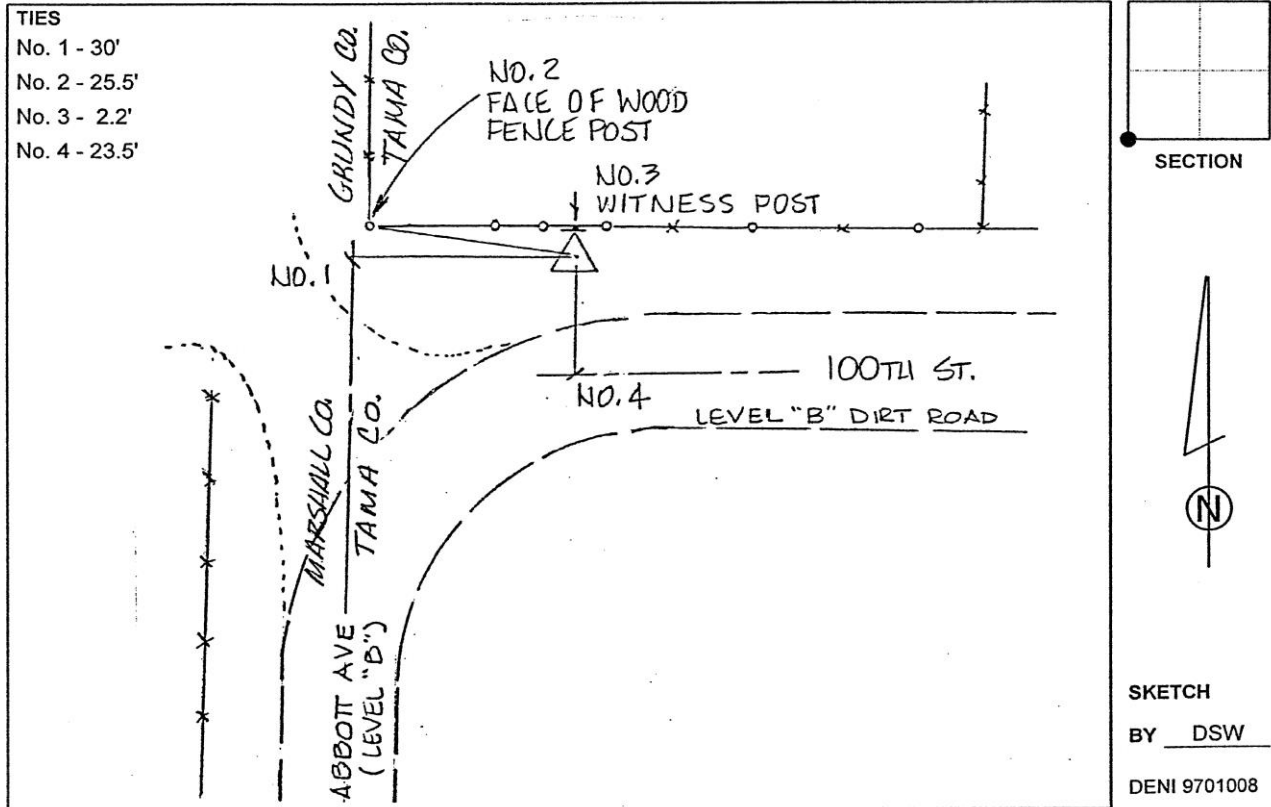
**Designation:** Grundy Co 7046 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°12'36.84354"** Longitude: **W92°46'02.64930"**  
 NAVD 88 Ortho Height: **982.170sft** Ellip. Ht: **877.662sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3540518.619sft** Easting: **5119720.438sft**  
 Mapping Angle: **0°29'47"** Combination Scale Factor: **0.9999350863**

**IaRCS Zone 5** Northing: **8740153.785sft** Easting: **15359816.031sft**  
 Mapping Angle: **-0°21'02"** Combination Scale Factor: **1.0000193237**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7047**

**Designation:** Grundy Co 7047 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°17'48.78301"** Longitude: **W92°42'32.55626"**

NAVD 88 Ortho Height: **989.400sft** Ellip. Ht: **884.834sft** **Geoid12B**

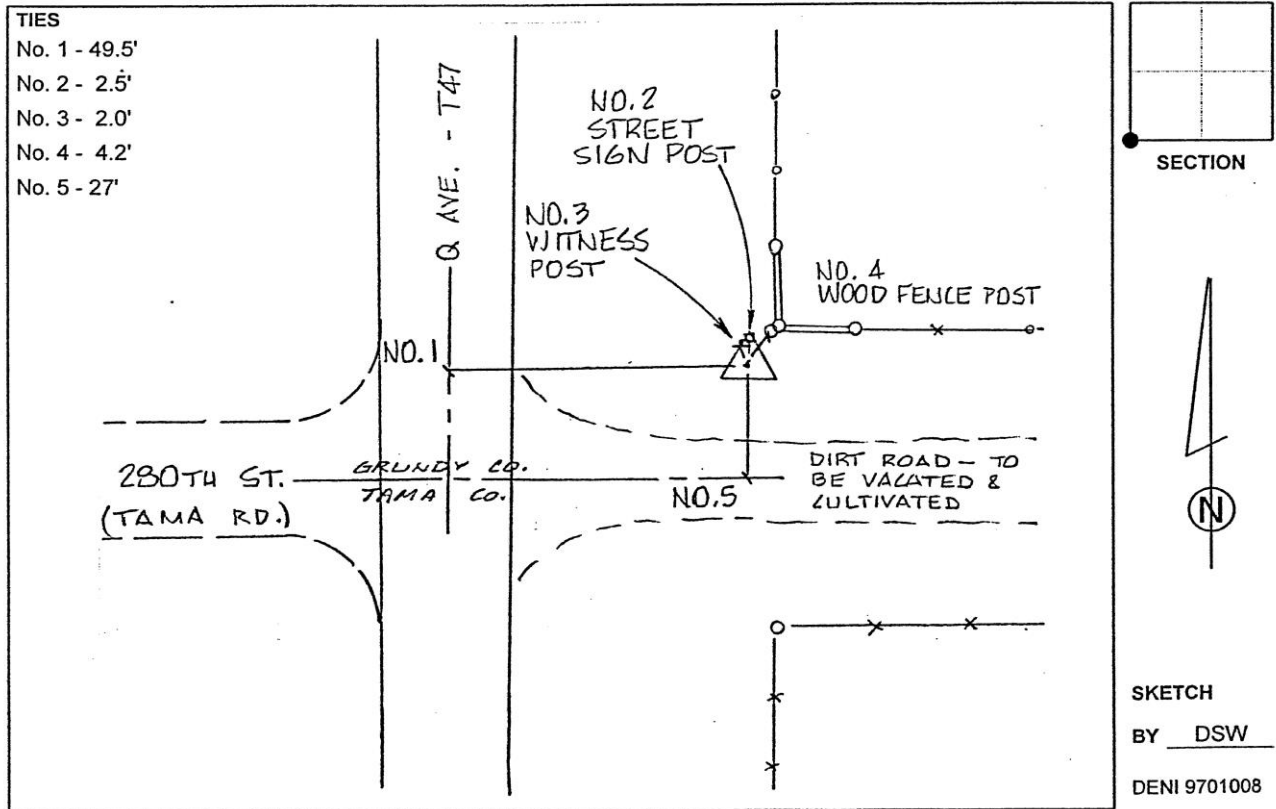
**Iowa North Zone (1401)** Northing: **3572236.528sft** Easting: **5135234.844sft**

Mapping Angle: **0°32'10"** Combination Scale Factor: **0.9999238910**

**IaRCS Zone 5** Northing: **8771641.528sft** Easting: **15375798.997sft**

Mapping Angle: **-0°18'40"** Combination Scale Factor: **1.0000085885**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

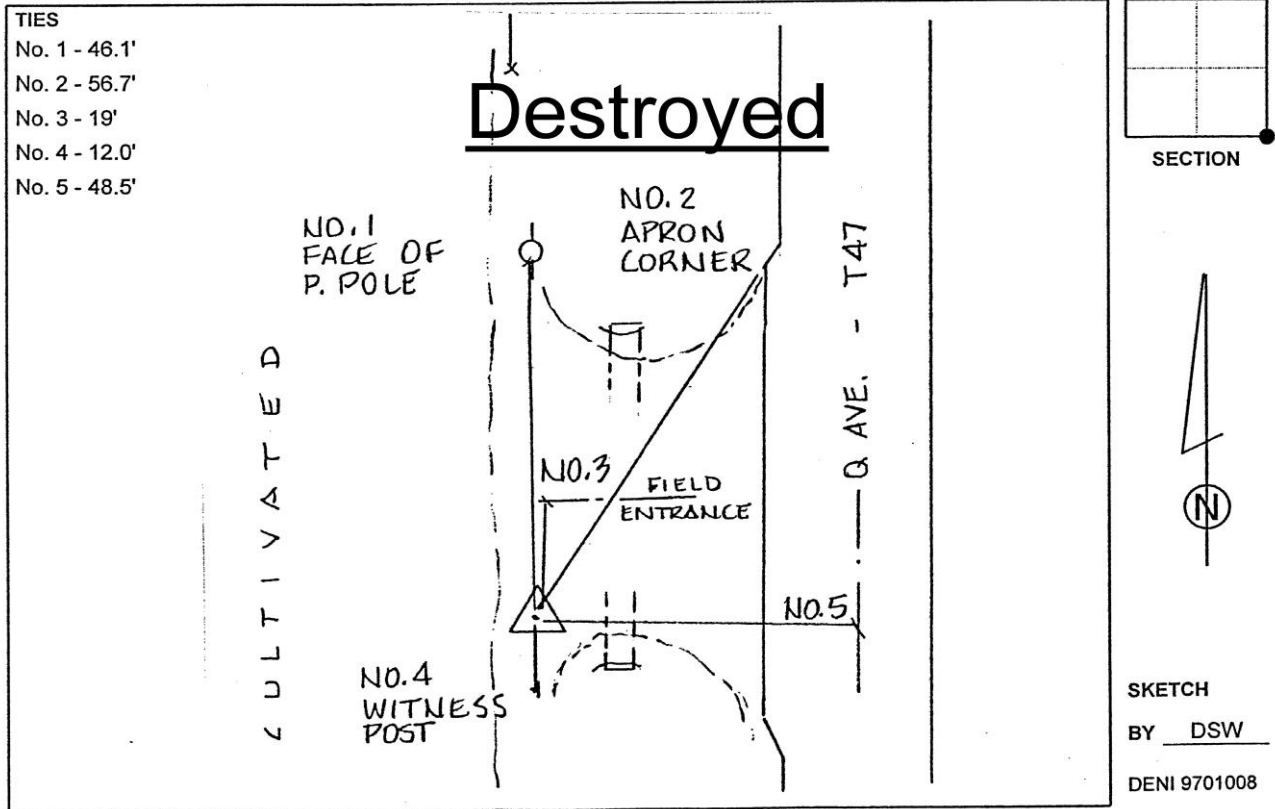
Point Name: **7048 (Destroyed)**

**Designation:** Grundy Co 7048 (Set by Deni Associates in 1997)

NAD 83(1996) Latitude: ~~42 20 26.45910N~~ Longitude: ~~92 42 35.89788W~~  
 NAVD 88 Ortho Height: ~~982.620~~sft Ellip. Ht: ~~878.161~~sft

**Iowa North Zone (1401)** Northing: ~~3588194.690~~sft Easting: ~~5134834.570~~sft  
 Mapping Angle: ~~0 32 07.6~~ Combination Scale Factor: ~~0.9999615600~~

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7049**

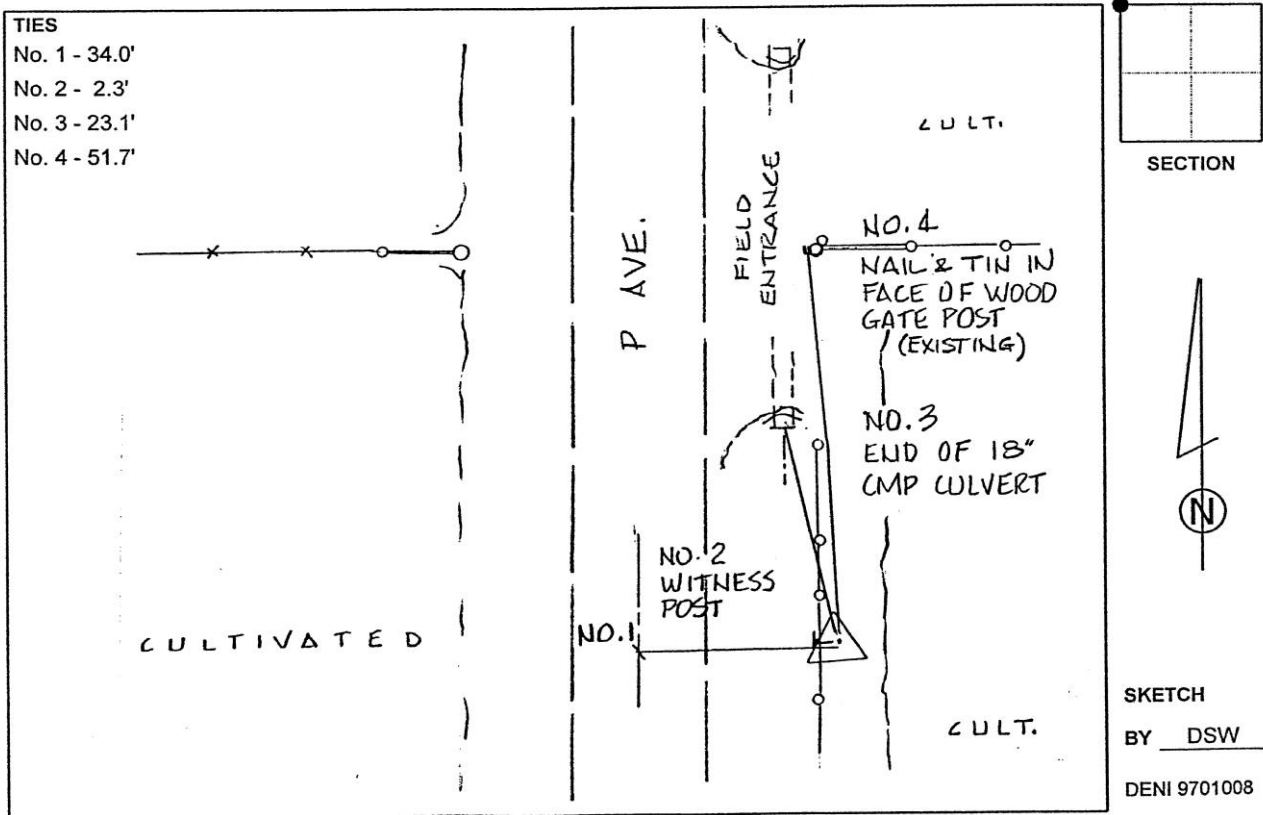
**Designation:** Grundy Co 7049 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°23'01.93511"** Longitude: **W92°43'45.39086"**  
 NAVD 88 Ortho Height: **995.550sft** Ellip. Ht: **890.936sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3603884.404sft** Easting: **5129472.494sft**  
 Mapping Angle: **0°31'20"** Combination Scale Factor: **0.9999149831**

**IaRCS Zone 5** Northing: **8803373.830sft** Easting: **15370504.701sft**  
 Mapping Angle: **-0°19'29"** Combination Scale Factor: **1.0000001433**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7050**

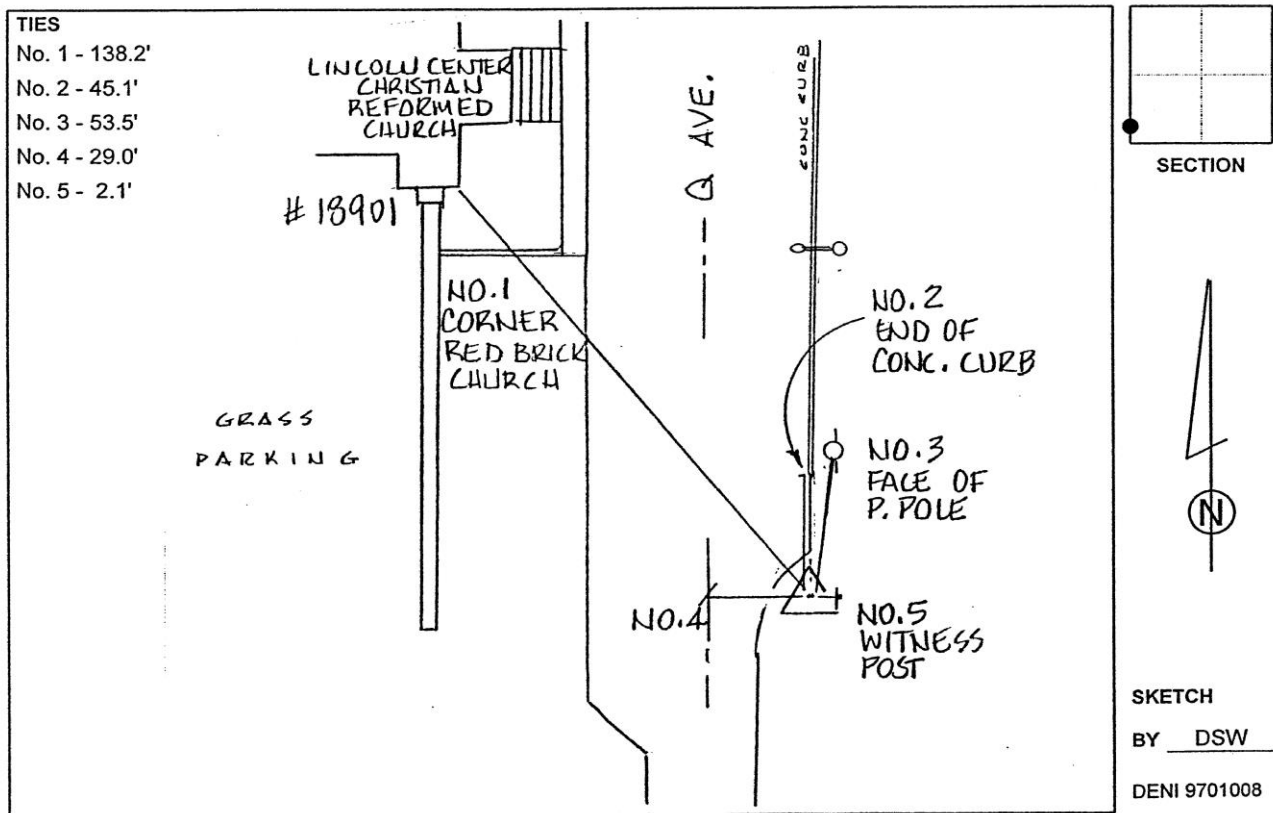
**Designation:** Grundy Co 7050 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°25'42.95145"** Longitude: **W92°42'36.13166"**  
 NAVD 88 Ortho Height: **985.714sft** Ellip. Ht: **881.216sft** Geoid**12B**

**Iowa North Zone (1401)** Northing: **3620231.116sft** Easting: **5134517.644sft**  
 Mapping Angle: **0°32'07"** Combination Scale Factor: **0.9999119071**

**IaRCS Zone 5** Northing: **8819645.557sft** Easting: **15375791.415sft**  
 Mapping Angle: **-0°18'42"** Combination Scale Factor: **0.9999973056**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

Point Name: **7051**

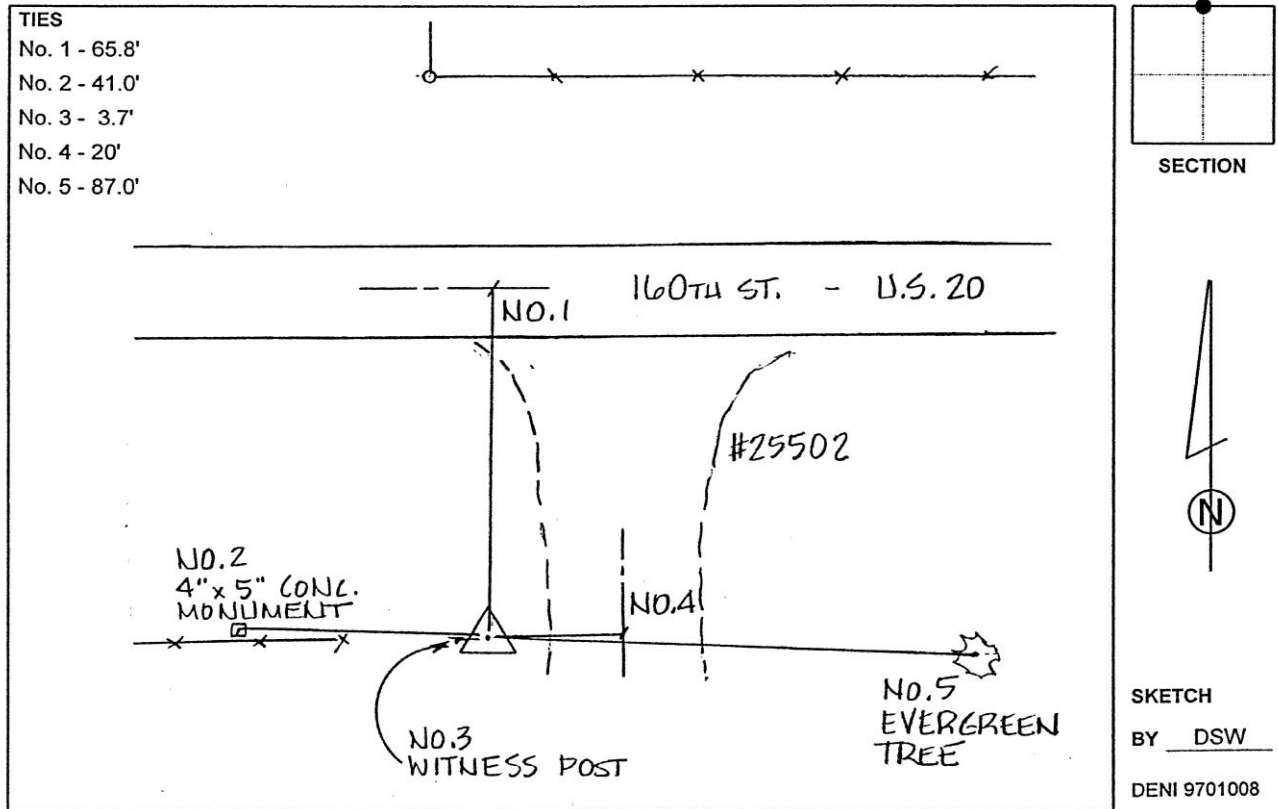
**Designation:** Grundy Co 7051 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°28'11.15218"** Longitude: **W92°43'17.00503"**  
NAVD 88 Ortho Height: **1042.230sft** Ellip. Ht: **937.758sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3635204.252sft** Easting: **5131314.383sft**  
Mapping Angle: **0°31'40"** Combination Scale Factor: **0.9999064802**

**IaRCS Zone 5** Northing: **8834665.697sft** Easting: **15372809.607sft**  
Mapping Angle: **-0°19'10"** Combination Scale Factor: **0.9999920980**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

Point Name: **7052**

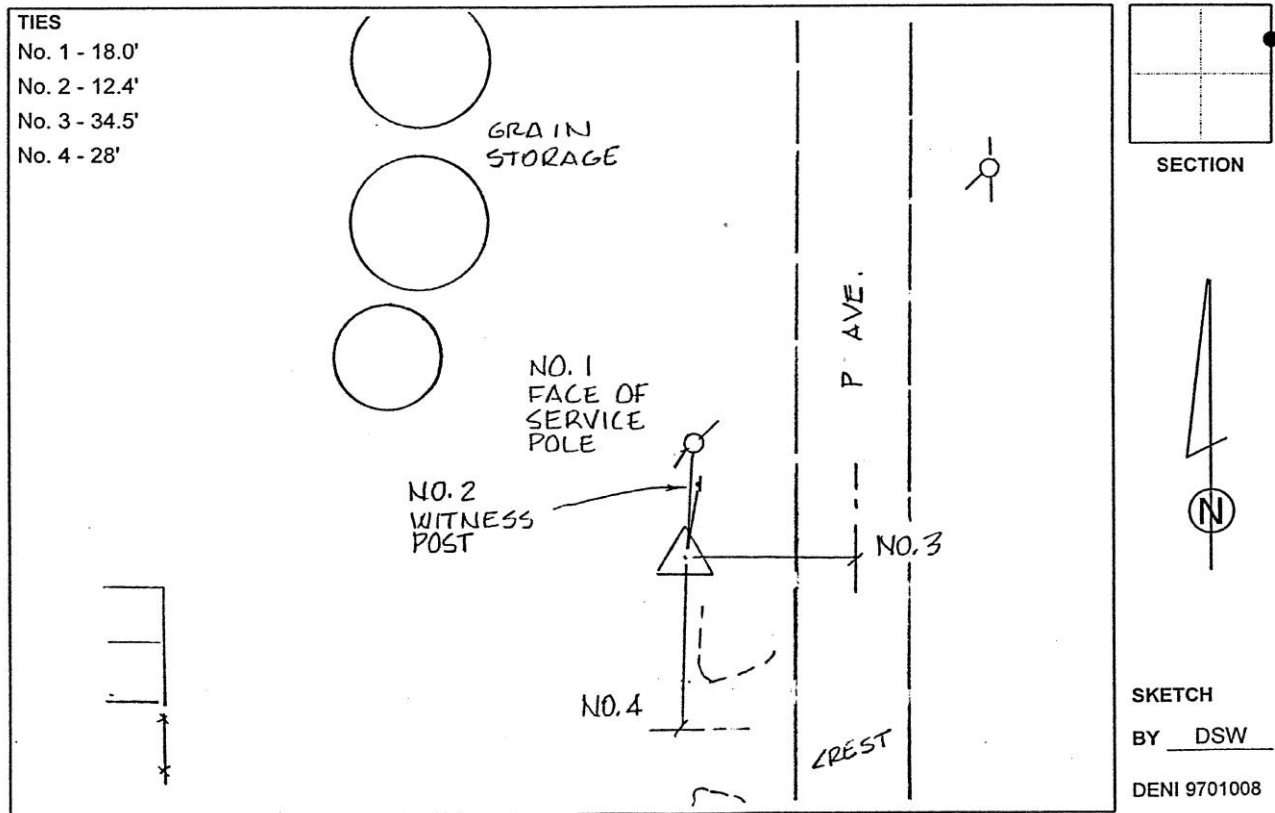
**Designation:** Grundy Co 7052 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°30'36.23658"** Longitude: **W92°43'52.42746"**  
NAVD 88 Ortho Height: **1045.870sft** Ellip. Ht: **941.397sft** Geoid**12B**

**Iowa North Zone (1401)** Northing: **3649866.163sft** Easting: **5128526.244sft**  
Mapping Angle: **0°31'16"** Combination Scale Factor: **0.9999041359**

**IaRCS Zone 5** Northing: **8849368.485sft** Easting: **15370238.309sft**  
Mapping Angle: **-0°19'34"** Combination Scale Factor: **0.9999899687**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7053**

**Designation:** Grundy Co 7053 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°33'20.23216"** Longitude: **W92°43'55.32913"**

NAVD 88 Ortho Height: **957.480sft** Ellip. Ht: **852.997sft** **Geoid12B**

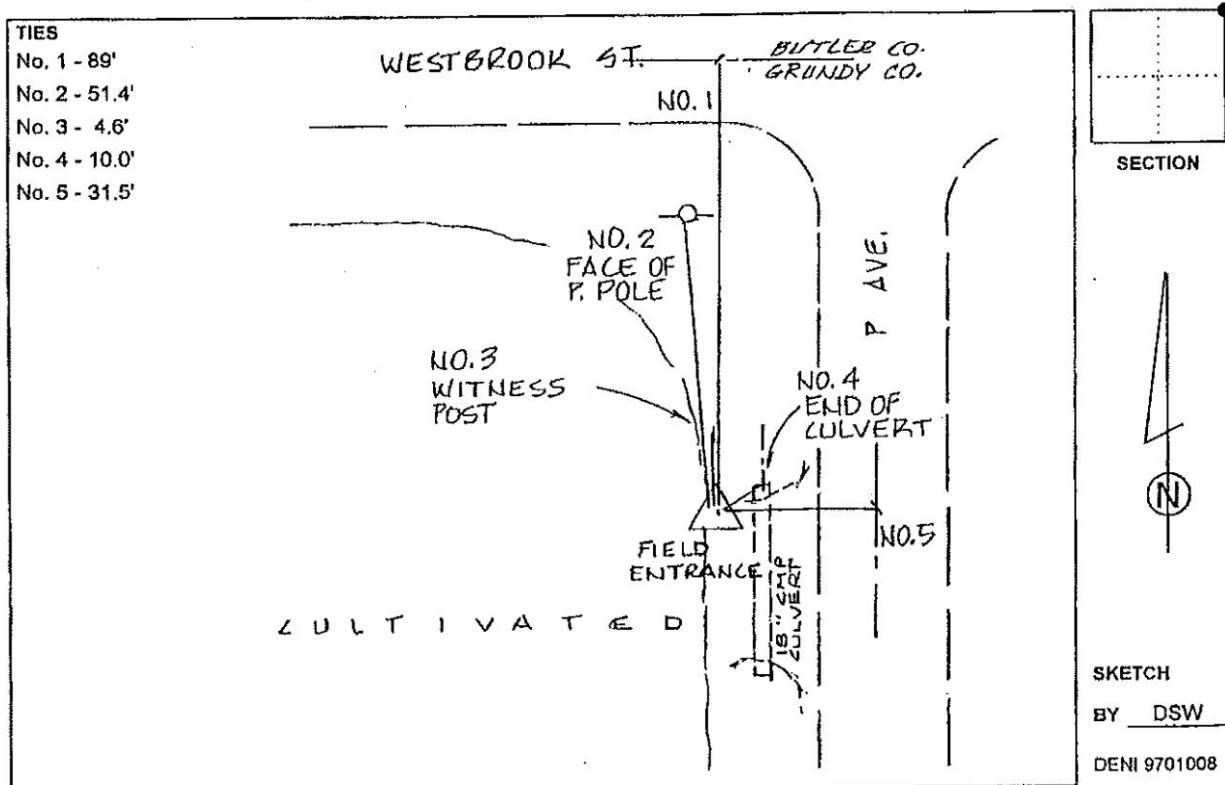
**Iowa North Zone (1401)** Northing: **3666464.776sft** Easting: **5128158.124sft**

Mapping Angle: **0°31'14"** Combination Scale Factor: **0.9999064997**

**laRCS Zone 5** Northing: **8865972.153sft** Easting: **15370115.607sft**

Mapping Angle: **-0°19'36"** Combination Scale Factor: **0.9999925762**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7054**

**Designation:** Grundy Co 7054 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°33'20.67875"** Longitude: **W92°40'28.02602"**

NAVD 88 Ortho Height: **923.982sft** Ellip. Ht: **819.661sft** **Geoid12B**

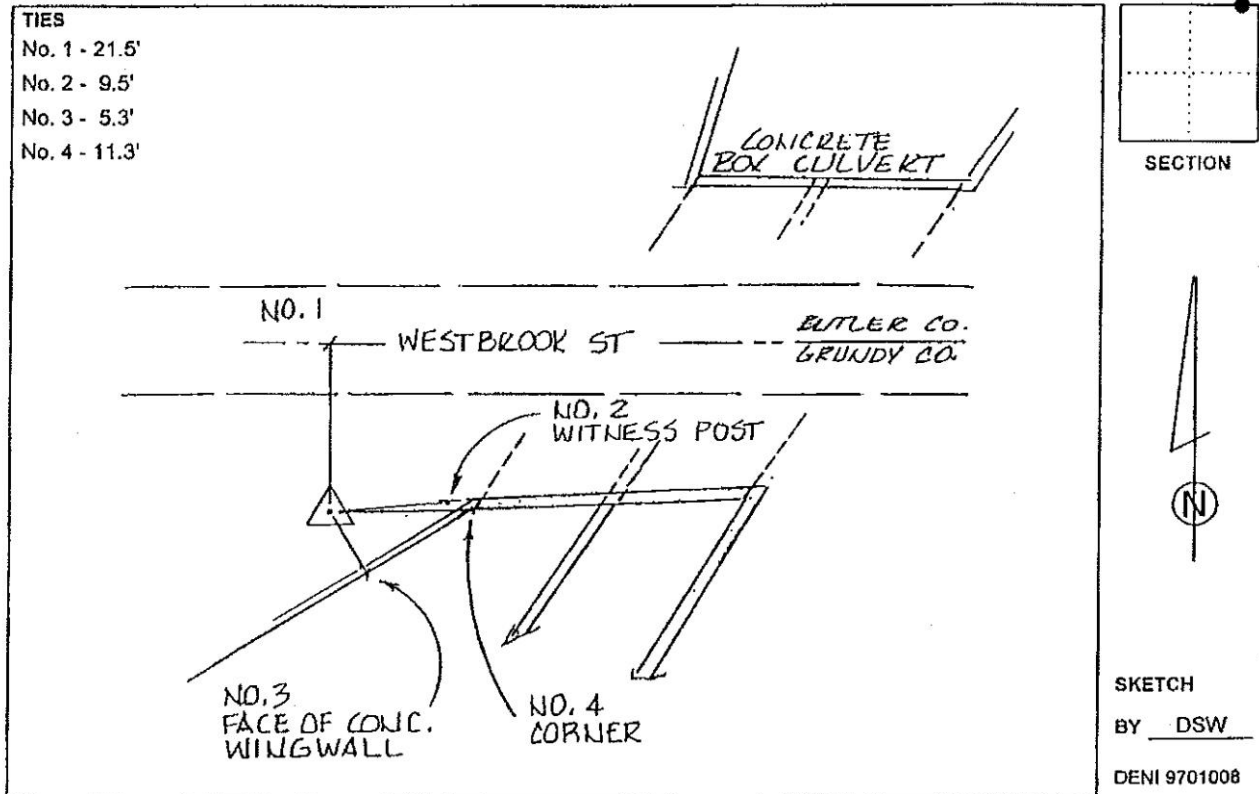
**Iowa North Zone (1401)** Northing: **3666656.202sft** Easting: **5143671.783sft**

Mapping Angle: **0°33'34"** Combination Scale Factor: **0.9999080888**

**IaRCS Zone 5** Northing: **8865934.205sft** Easting: **15385631.736sft**

Mapping Angle: **-0°17'15"** Combination Scale Factor: **0.9999941661**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7055**

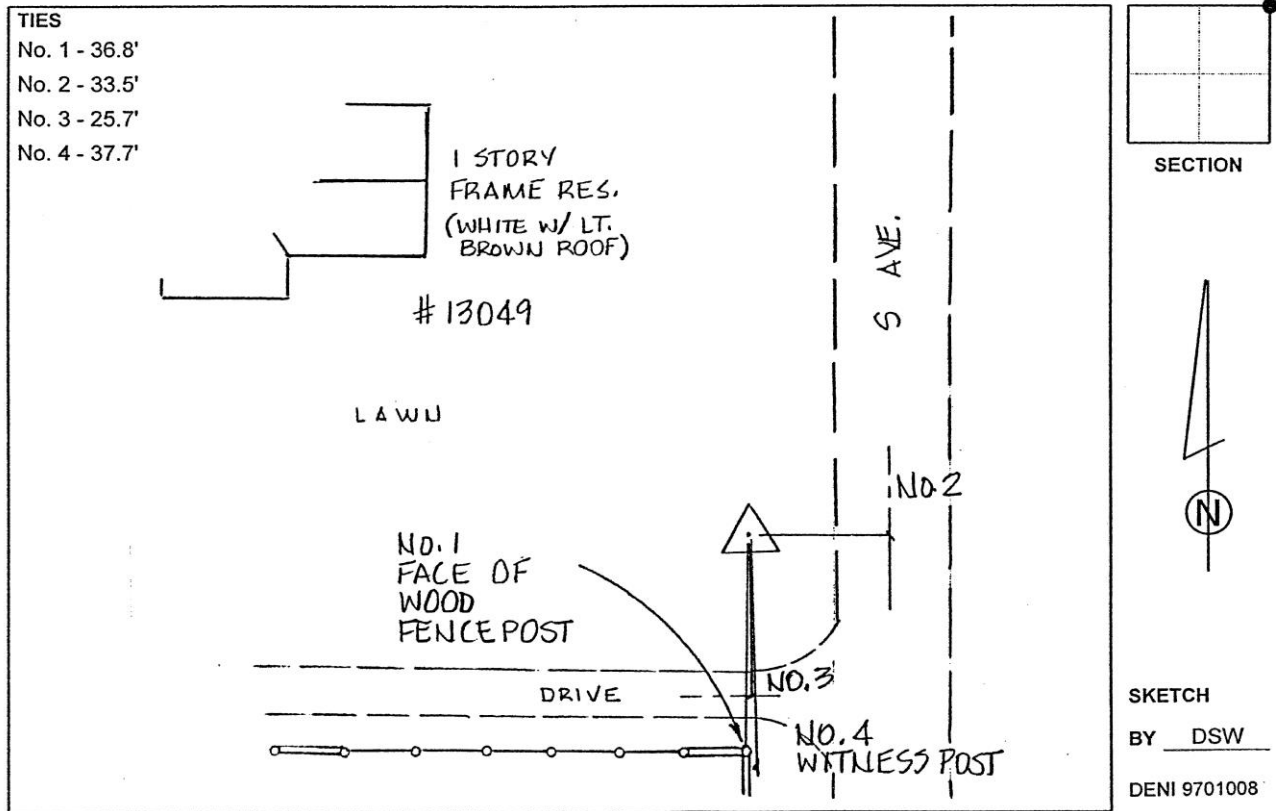
**Designation:** Grundy Co 7055 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°30'46.41516"** Longitude: **W92°40'22.20006"**  
 NAVD 88 Ortho Height: **1021.490sft** Ellip. Ht: **917.201sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3651045.106sft** Easting: **5144260.575sft**  
 Mapping Angle: **0°33'38"** Combination Scale Factor: **0.9999051586**

**IaRCS Zone 5** Northing: **8850314.767sft** Easting: **15385989.702sft**  
 Mapping Angle: **-0°17'11"** Combination Scale Factor: **0.9999910066**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7056**

**Designation:** Grundy Co 7056 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°28'12.15420"** Longitude: **W92°39'51.39452"**

NAVD 88 Ortho Height: **955.290sft** Ellip. Ht: **851.006sft** **Geoid12B**

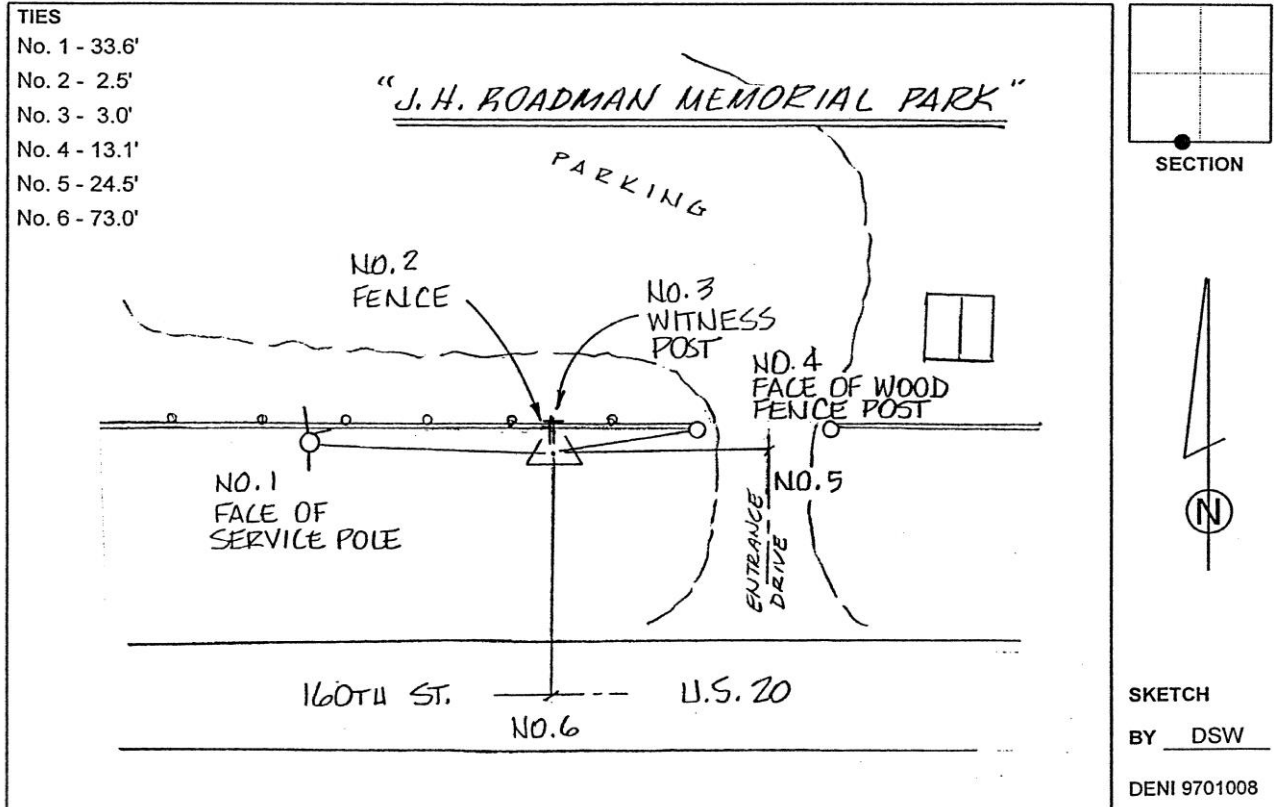
**Iowa North Zone (1401)** Northing: **3635452.803sft** Easting: **5146721.929sft**

Mapping Angle: **0°33'59"** Combination Scale Factor: **0.9999106100**

**IaRCS Zone 5** Northing: **8834686.441sft** Easting: **15388220.464sft**

Mapping Angle: **-0°16'50"** Combination Scale Factor: **0.9999962296**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7057**

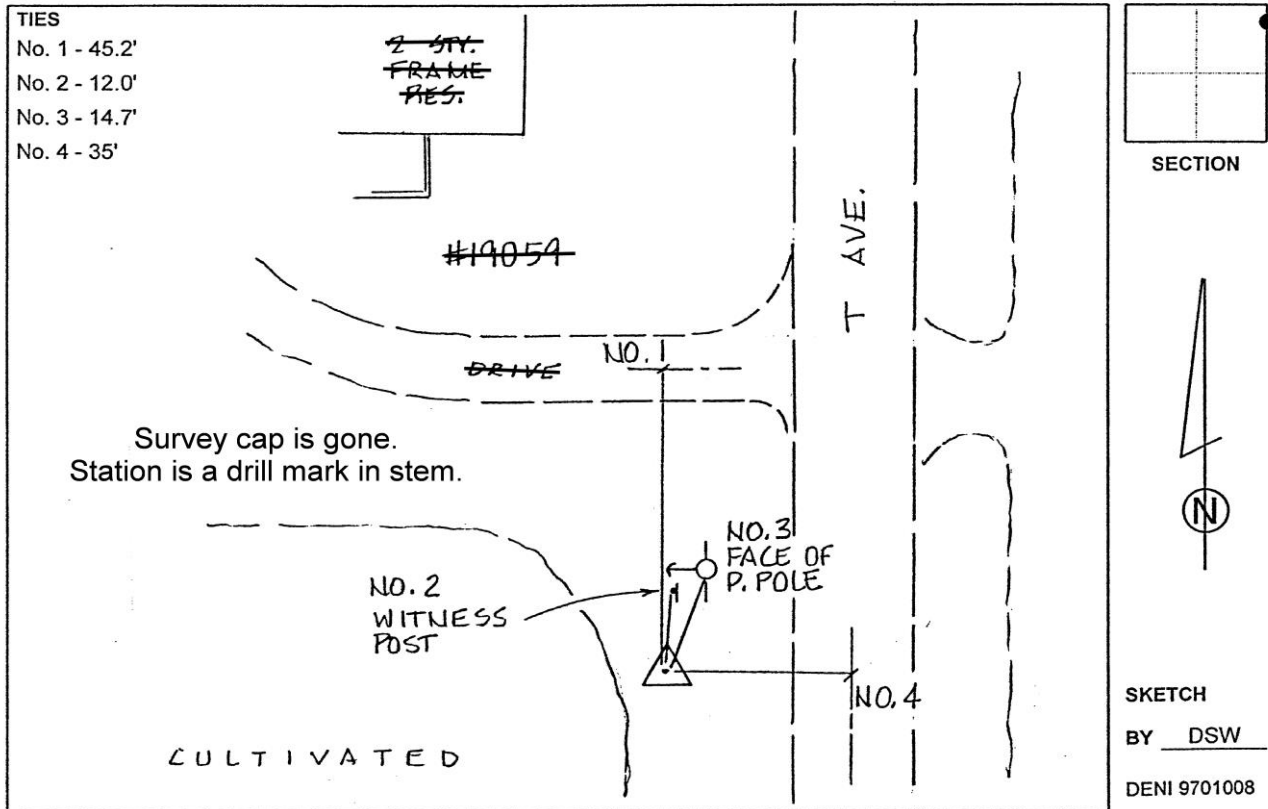
**Designation:** Grundy Co 7057 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°25'35.36938"** Longitude: **W92°39'06.61750"**  
 NAVD 88 Ortho Height: **1002.723sft** Ellip. Ht: **898.429sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3619615.857sft** Easting: **5150236.742sft**  
 Mapping Angle: **0°34'29"** Combination Scale Factor: **0.9999112375**

**IaRCS Zone 5** Northing: **8818797.904sft** Easting: **15391501.040sft**  
 Mapping Angle: **-0°16'20"** Combination Scale Factor: **0.9999966247**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

Point Name: **7058**

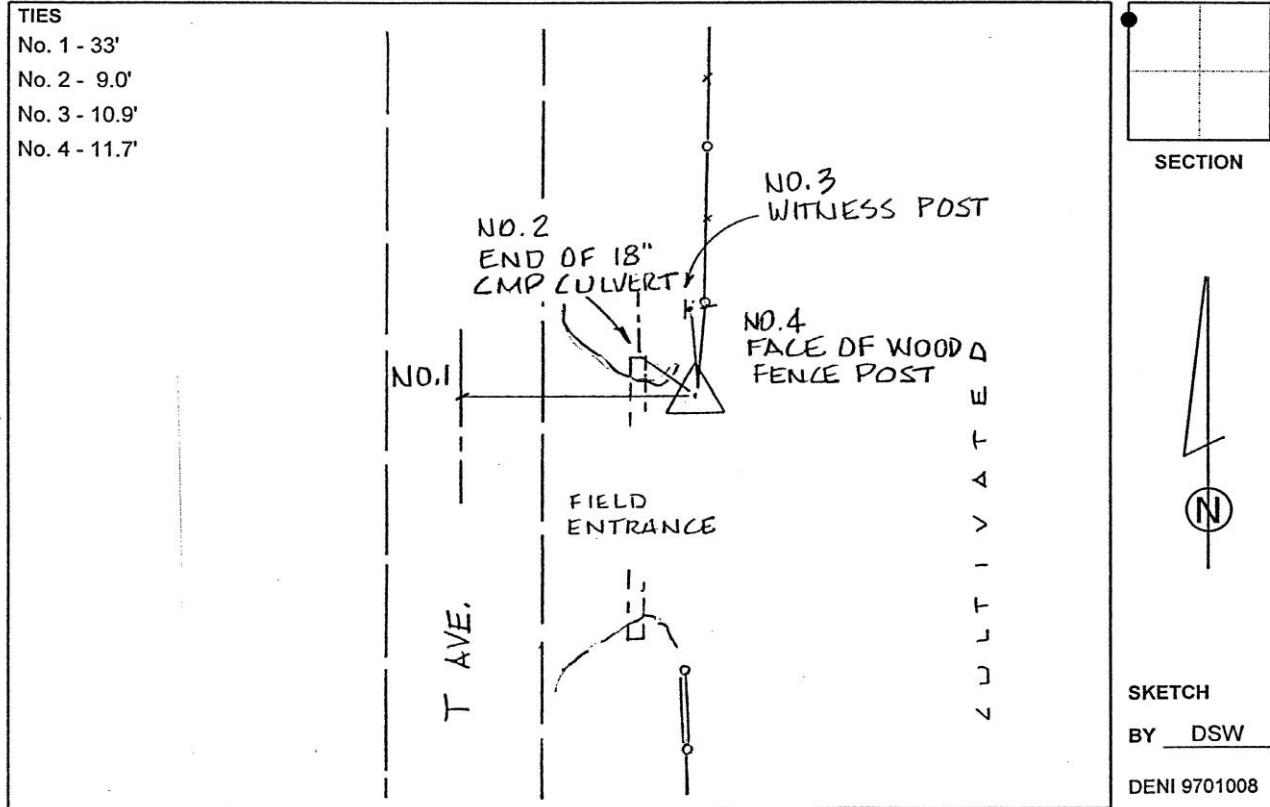
**Designation:** Grundy Co 7058 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°23'00.06873"** Longitude: **W92°39'04.64064"**  
NAVD 88 Ortho Height: **992.990sft** Ellip. Ht: **888.637sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3603897.283sft** Easting: **5150542.813sft**  
Mapping Angle: **0°34'31"** Combination Scale Factor: **0.9999151376**

**IaRCS Zone 5** Northing: **8803075.182sft** Easting: **15391574.702sft**  
Mapping Angle: **-0°16'19"** Combination Scale Factor: **1.0000002950**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7059**

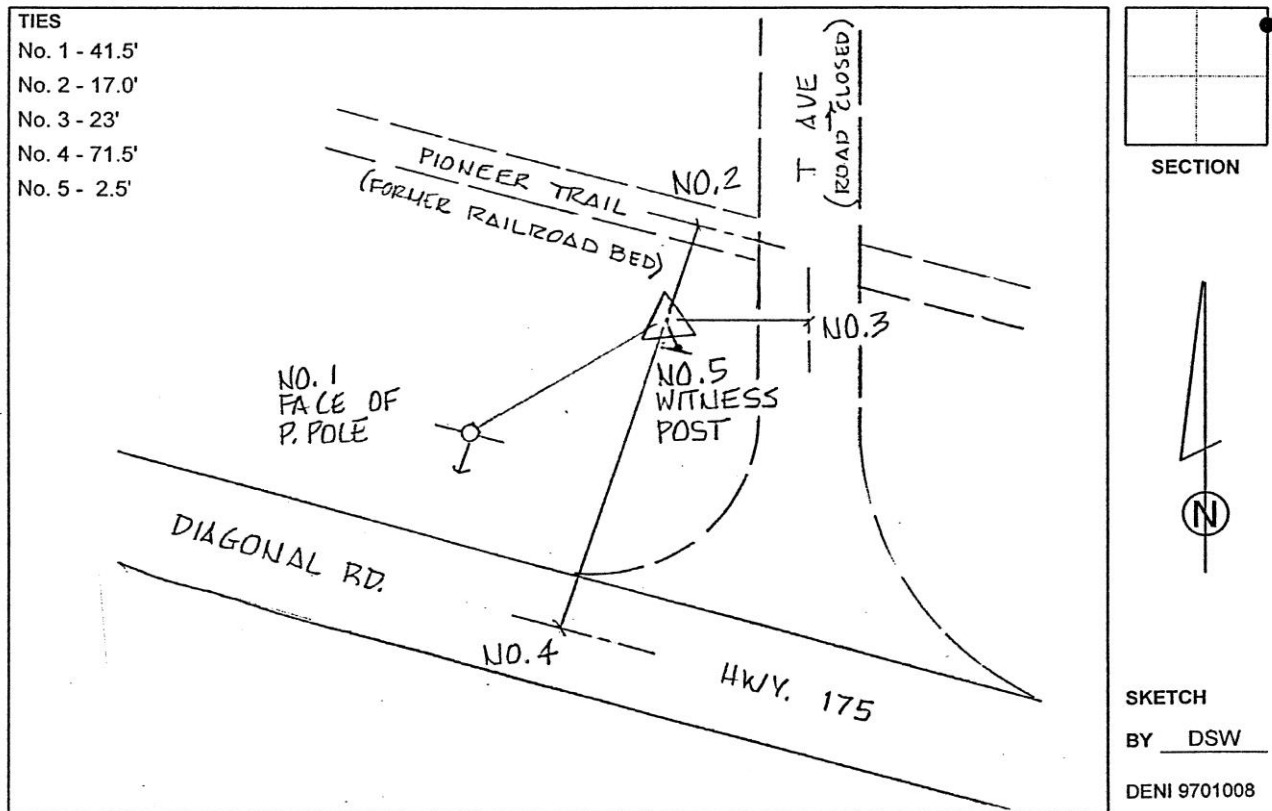
**Designation:** Grundy Co 7059 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°20'20.51922"** Longitude: **W92°39'04.69048"**  
 NAVD 88 Ortho Height: **940.020sft** Ellip. Ht: **835.622sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3587747.163sft** Easting: **5150701.212sft**  
 Mapping Angle: **0°34'31"** Combination Scale Factor: **0.9999217830**

**IaRCS Zone 5** Northing: **8786923.111sft** Easting: **15391494.313sft**  
 Mapping Angle: **-0°16'19"** Combination Scale Factor: **1.0000067048**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7060**

**Designation:** Grundy Co 7060 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°17'49.04454"** Longitude: **W92°39'04.26760"**

NAVD 88 Ortho Height: **973.220sft** Ellip. Ht: **868.835sft** Geoid**12B**

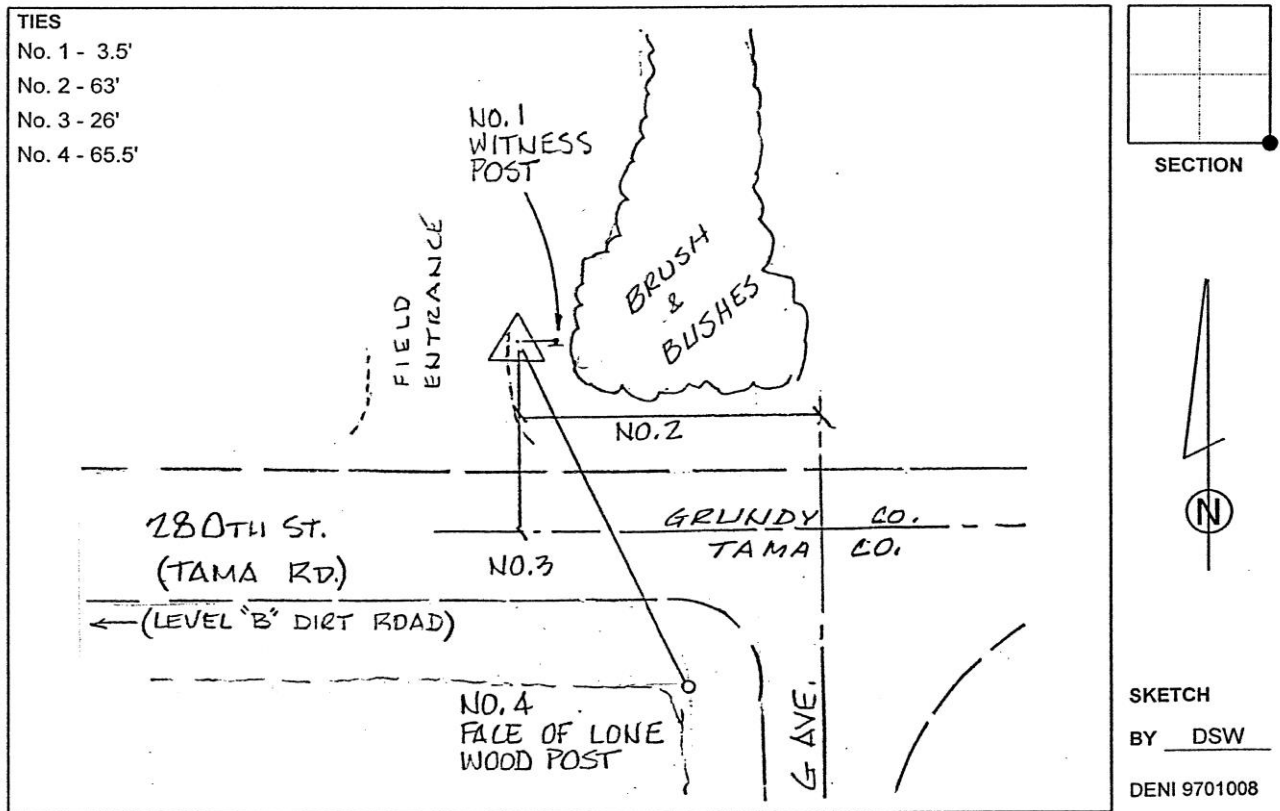
**Iowa North Zone (1401)** Northing: **3572414.807sft** Easting: **5150886.922sft**

Mapping Angle: **0°34'31"** Combination Scale Factor: **0.9999246476**

**IaRCS Zone 5** Northing: **8771588.385sft** Easting: **15391453.326sft**

Mapping Angle: **-0°16'19"** Combination Scale Factor: **1.0000093455**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7061**

**Designation:** Grundy Co 7061 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°17'54.12464"** Longitude: **W92°35'25.06070"**

NAVD 88 Ortho Height: **1013.170sft** Ellip. Ht: **909.086sft** Geoid**12B**

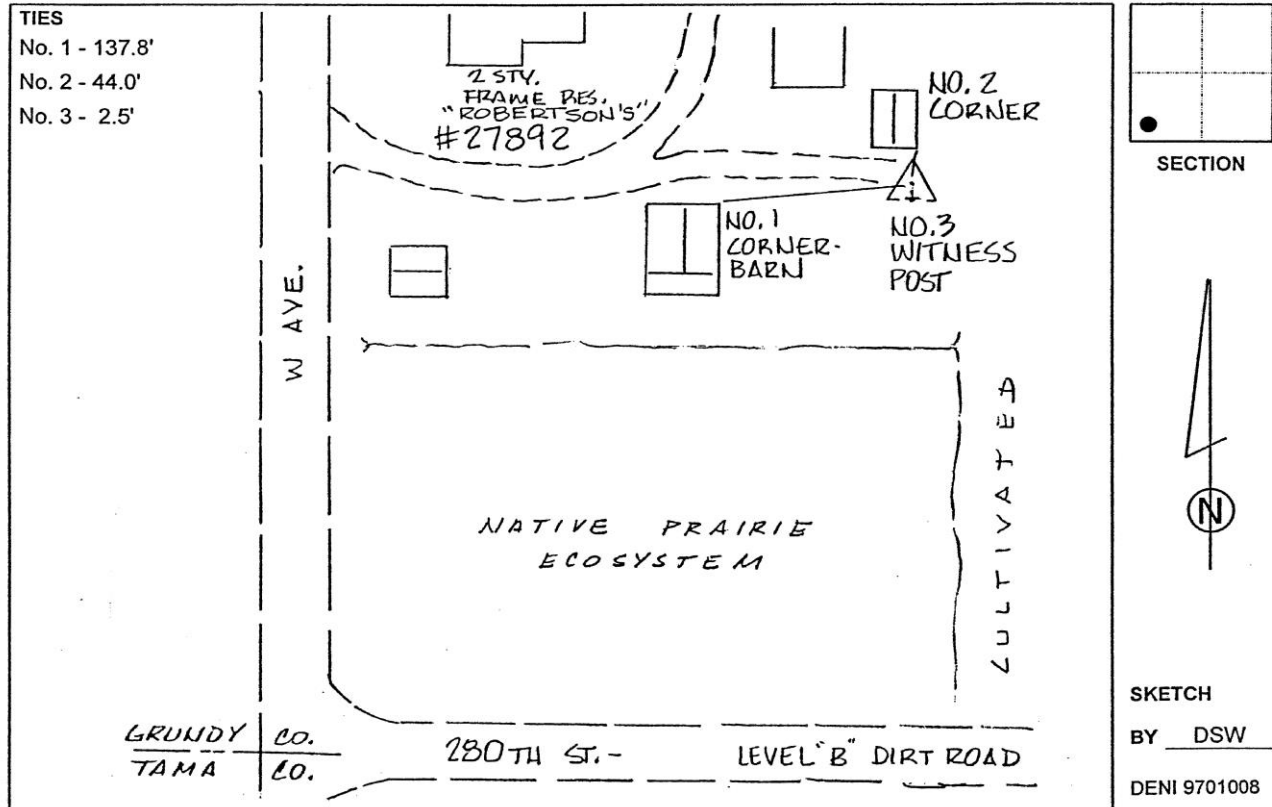
**Iowa North Zone (1401)** Northing: **3573100.357sft** Easting: **5167354.074sft**

Mapping Angle: **0°37'00"** Combination Scale Factor: **0.9999225657**

**IaRCS Zone 5** Northing: **8772030.446sft** Easting: **15407930.209sft**

Mapping Angle: **-0°13'50"** Combination Scale Factor: **1.0000072710**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7062**

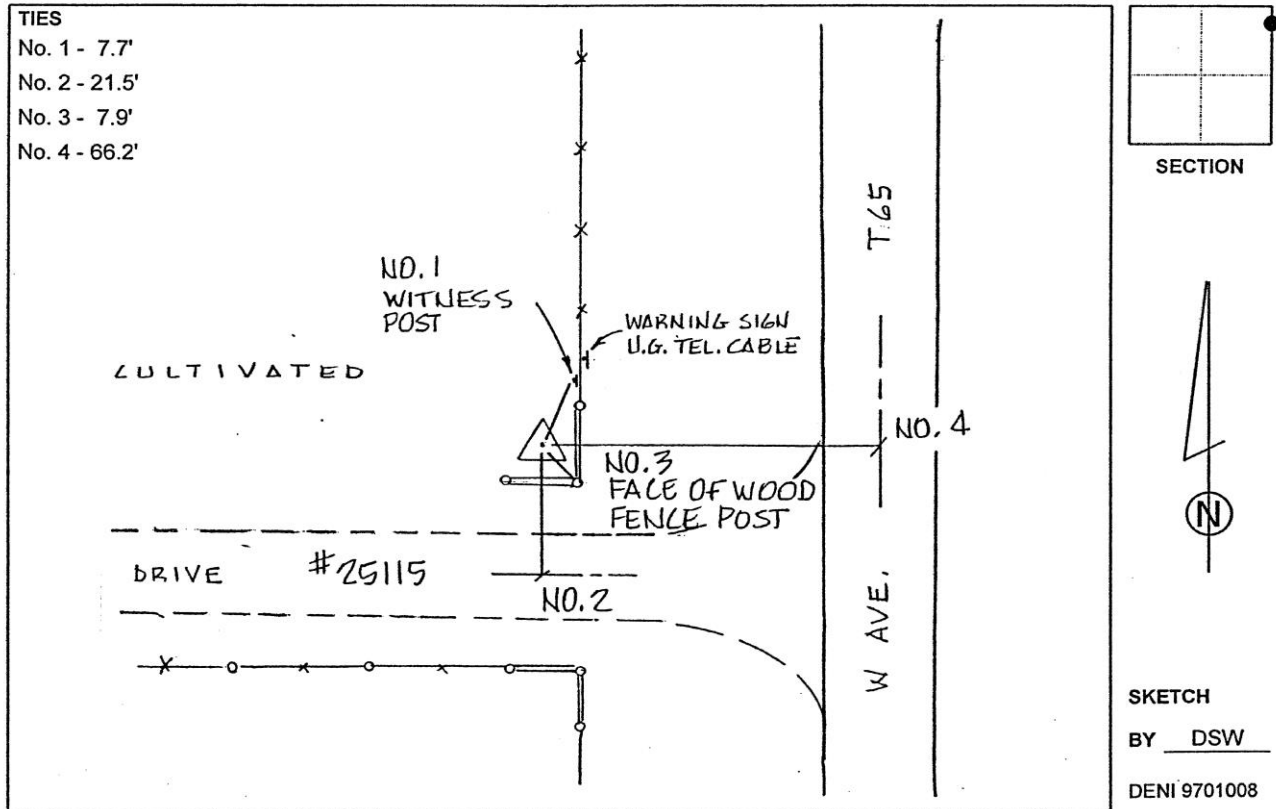
**Designation:** Grundy Co 7062 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°20'18.67944"** Longitude: **W92°35'32.72523"**  
 NAVD 88 Ortho Height: **923.060sft** Ellip. Ht: **818.949sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3587726.286sft** Easting: **5166621.034sft**  
 Mapping Angle: **0°36'54"** Combination Scale Factor: **0.9999226308**

**laRCS Zone 5** Northing: **8786666.855sft** Easting: **15407413.439sft**  
 Mapping Angle: **-0°13'55"** Combination Scale Factor: **1.0000075500**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7063**

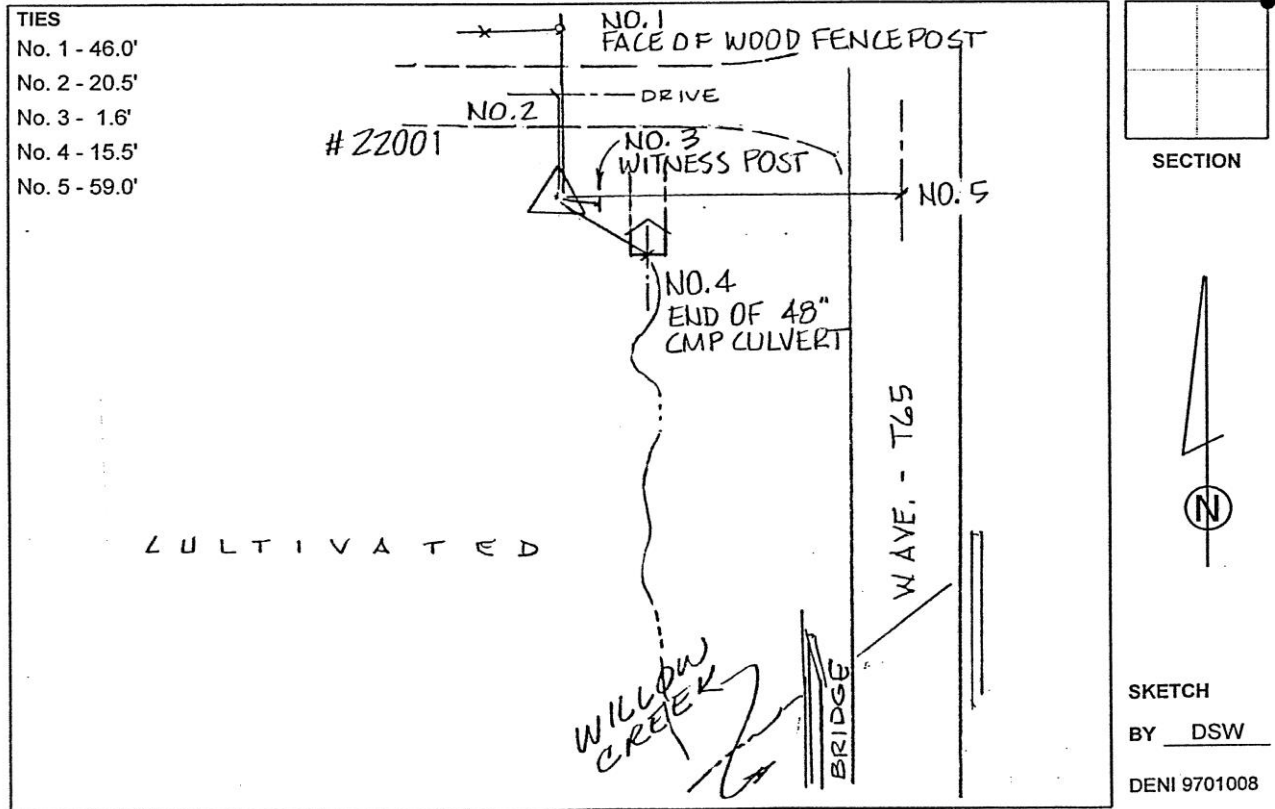
**Designation:** Grundy Co 7063 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°23'03.30103"** Longitude: **W92°35'32.73756"**  
 NAVD 88 Ortho Height: **935.059sft** Ellip. Ht: **830.973sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3604389.651sft** Easting: **5166441.210sft**  
 Mapping Angle: **0°36'54"** Combination Scale Factor: **0.9999178166**

**IaRCS Zone 5** Northing: **8803332.474sft** Easting: **15407479.995sft**  
 Mapping Angle: **-0°13'55"** Combination Scale Factor: **1.0000029791**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

Point Name: **7064**

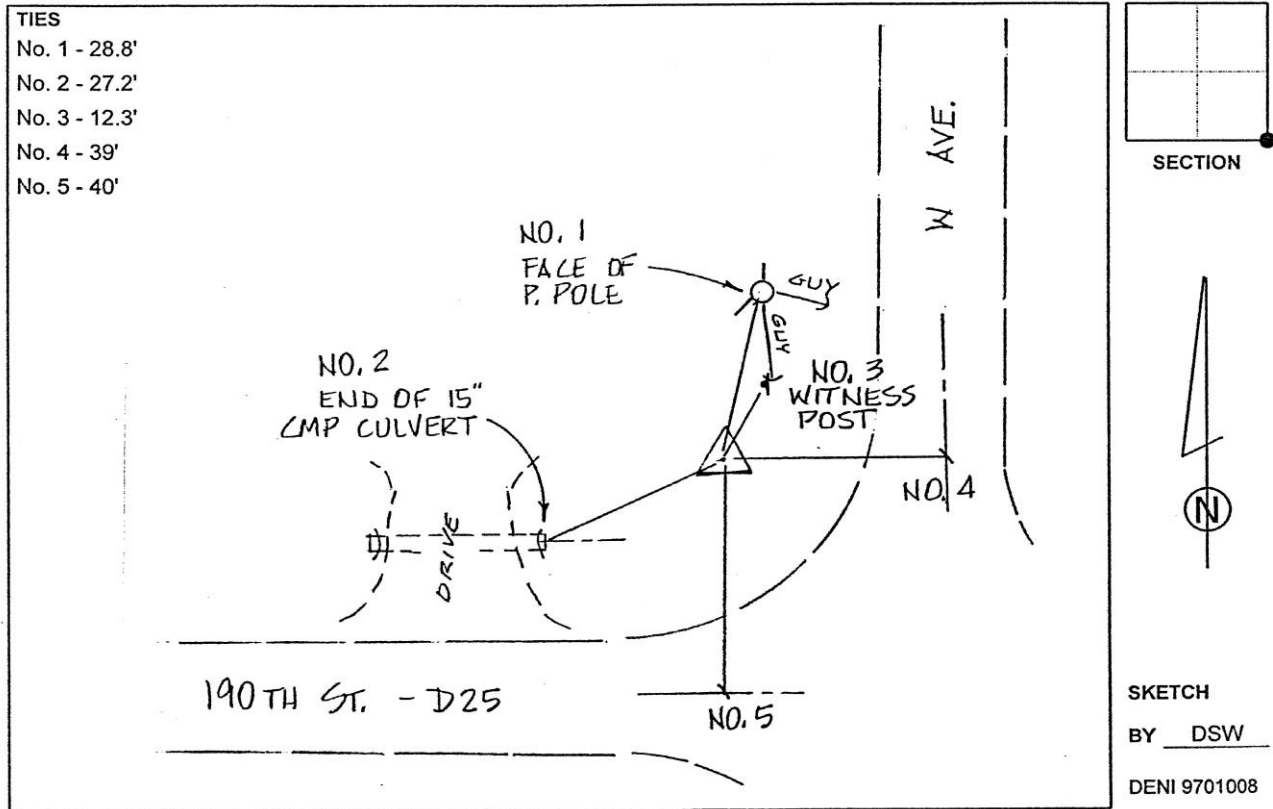
**Designation:** Grundy Co 7064 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°25'40.18769"** Longitude: **W92°35'33.72687"**  
NAVD 88 Ortho Height: **970.650sft** Ellip. Ht: **866.595sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3620269.345sft** Easting: **5166196.529sft**  
Mapping Angle: **0°36'54"** Combination Scale Factor: **0.9999126616**

**IaRCS Zone 5** Northing: **8819215.405sft** Easting: **15407470.108sft**  
Mapping Angle: **-0°13'56"** Combination Scale Factor: **0.9999980561**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

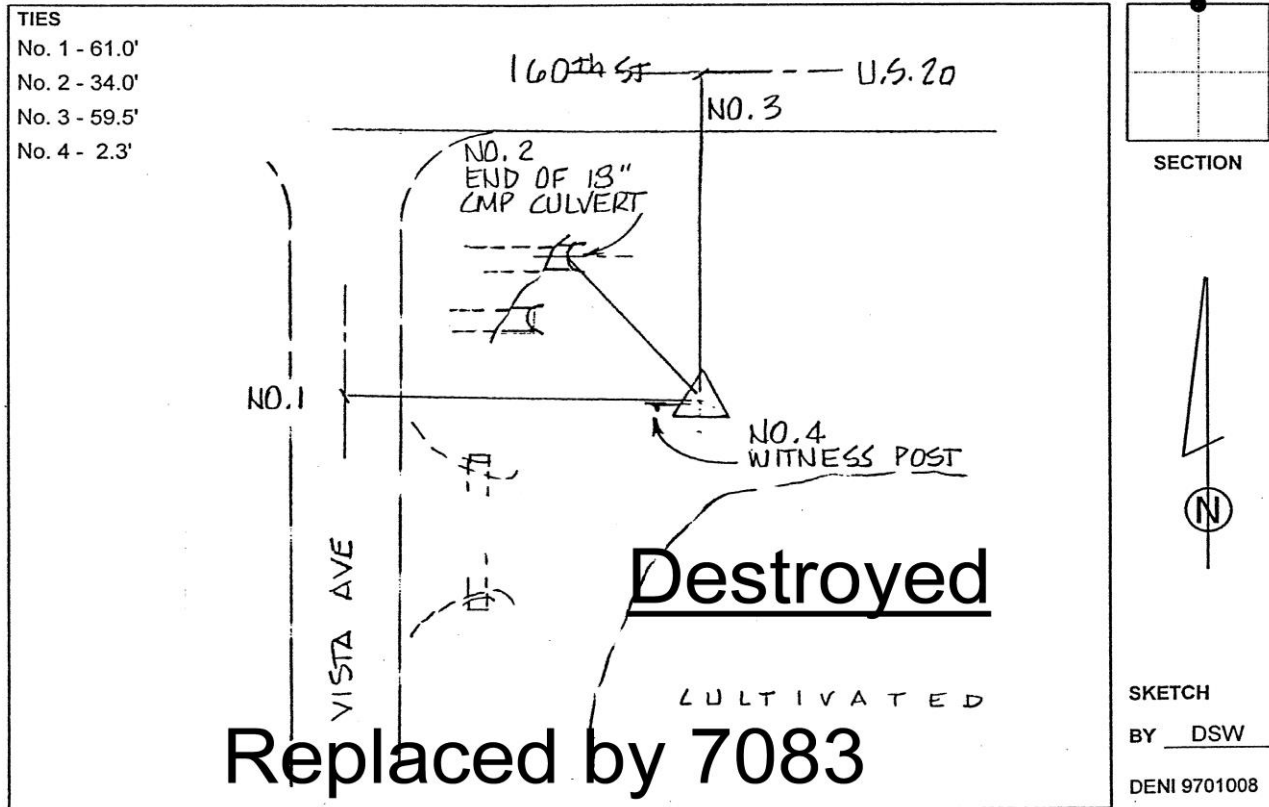
Point Name: **7065 (Destroyed)**

**Designation:** Grundy Co 7065 (Set by Deni Associates in 1997)

NAD 83(1996) Latitude: ~~42 28 10.15645N~~ Longitude: ~~92 36 07.95120W~~  
 NAVD 88 Ortho Height: **971.040sft** Ellip. Ht: **867.068sft**

**Iowa North Zone (1401)** Northing: **3635422.270sft** Easting: **5163468.830sft**  
 Mapping Angle: **0 36 30.5** Combination Scale Factor: **0.9999513200**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

Point Name: **7066**

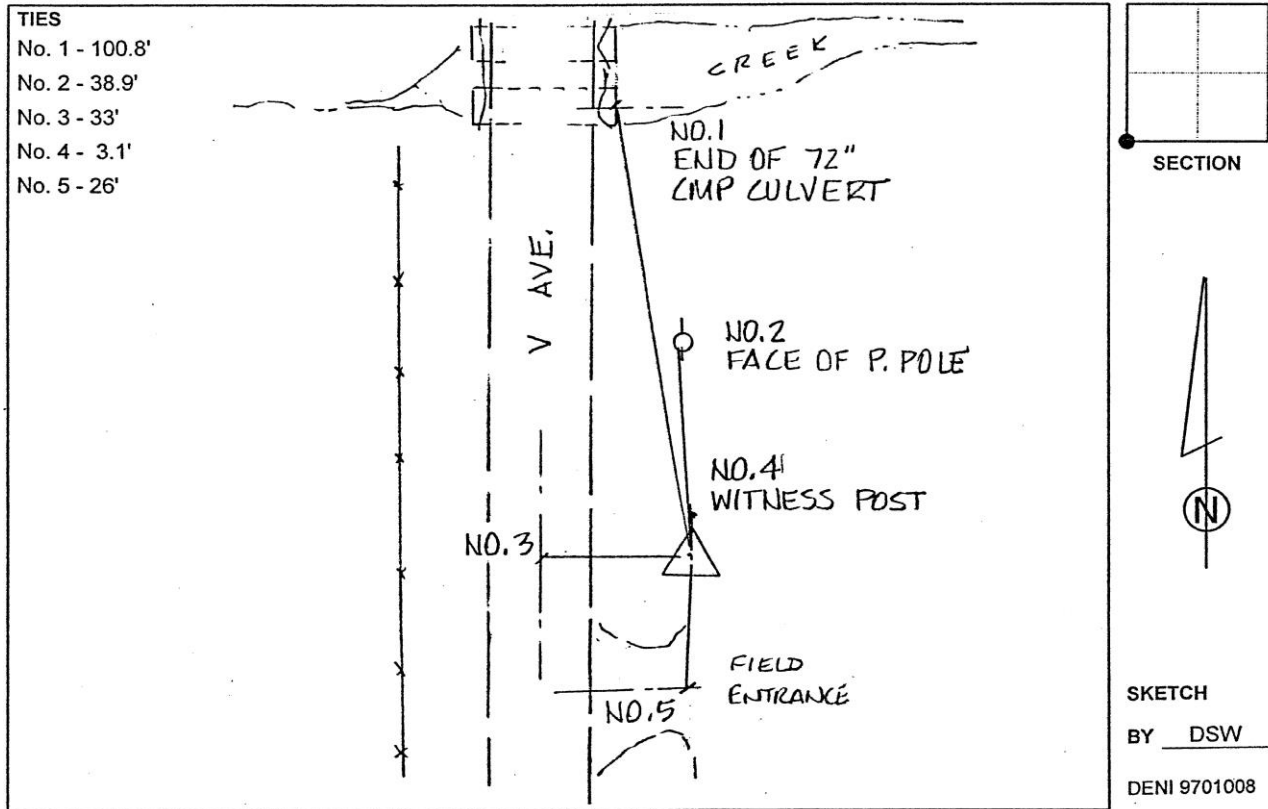
**Designation:** Grundy Co 7066 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°30'50.93602"** Longitude: **W92°36'47.84024"**  
NAVD 88 Ortho Height: **958.370sft** Ellip. Ht: **854.288sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3651665.455sft** Easting: **5160308.838sft**  
Mapping Angle: **0°36'03"** Combination Scale Factor: **0.9999081069**

**IaRCS Zone 5** Northing: **8850697.824sft** Easting: **15402046.762sft**  
Mapping Angle: **-0°14'46"** Combination Scale Factor: **0.9999939619**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7067**

**Designation:** Grundy Co 7067 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°33'21.11185"** Longitude: **W92°36'51.79257"**

NAVD 88 Ortho Height: **904.790sft** Ellip. Ht: **800.681sft** **Geoid12B**

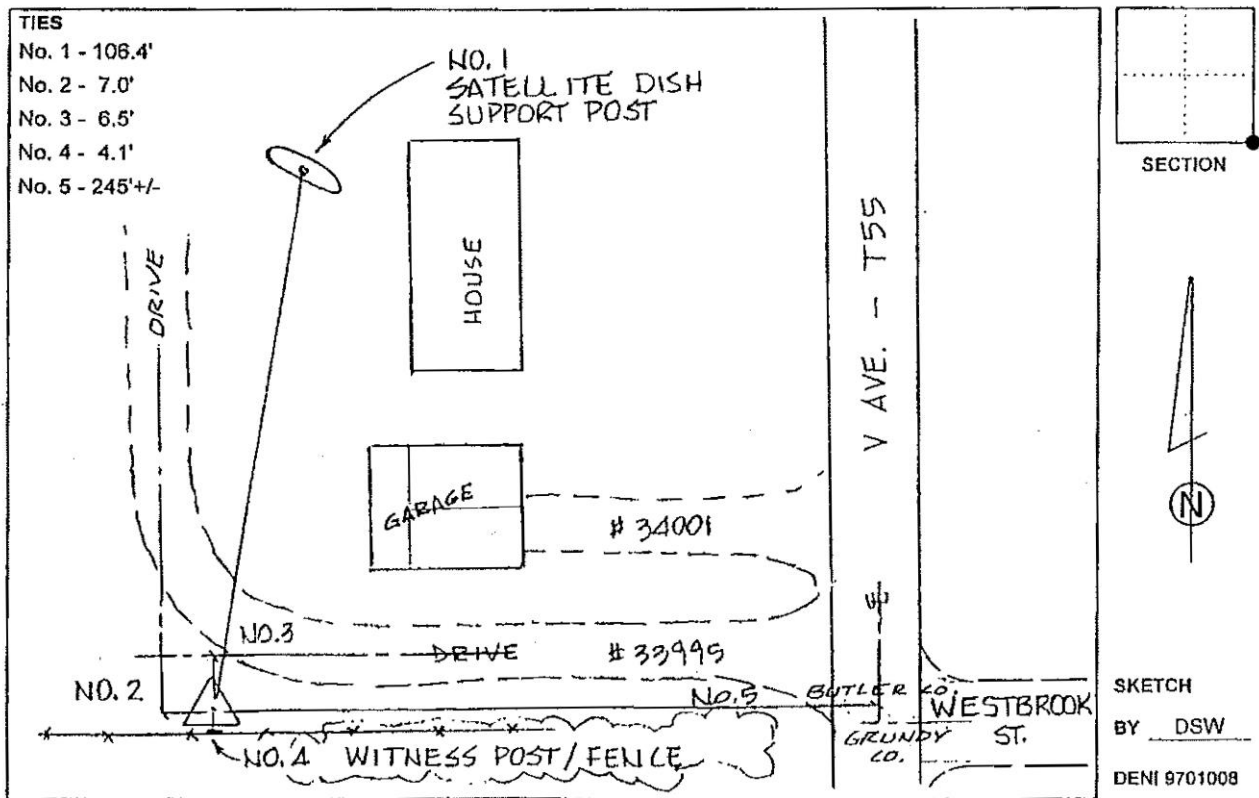
**Iowa North Zone (1401)** Northing: **3666863.823sft** Easting: **5159853.608sft**

Mapping Angle: **0°36'01"** Combination Scale Factor: **0.9999089919**

**IaRCS Zone 5** Northing: **8865902.568sft** Easting: **15401816.256sft**

Mapping Angle: **-0°14'49"** Combination Scale Factor: **0.9999950699**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7068**

**Designation:** Black Hawk Co. GPS Control Pt. 94-083 (Set by ASI in 1994)

NAD 83(NA2011) Latitude: **N42°33'21.30468"** Longitude: **W92°33'14.59110"**

NAVD 88 Ortho Height: **886.870sft** Ellip. Ht: **782.975sft** **Geoid12B**

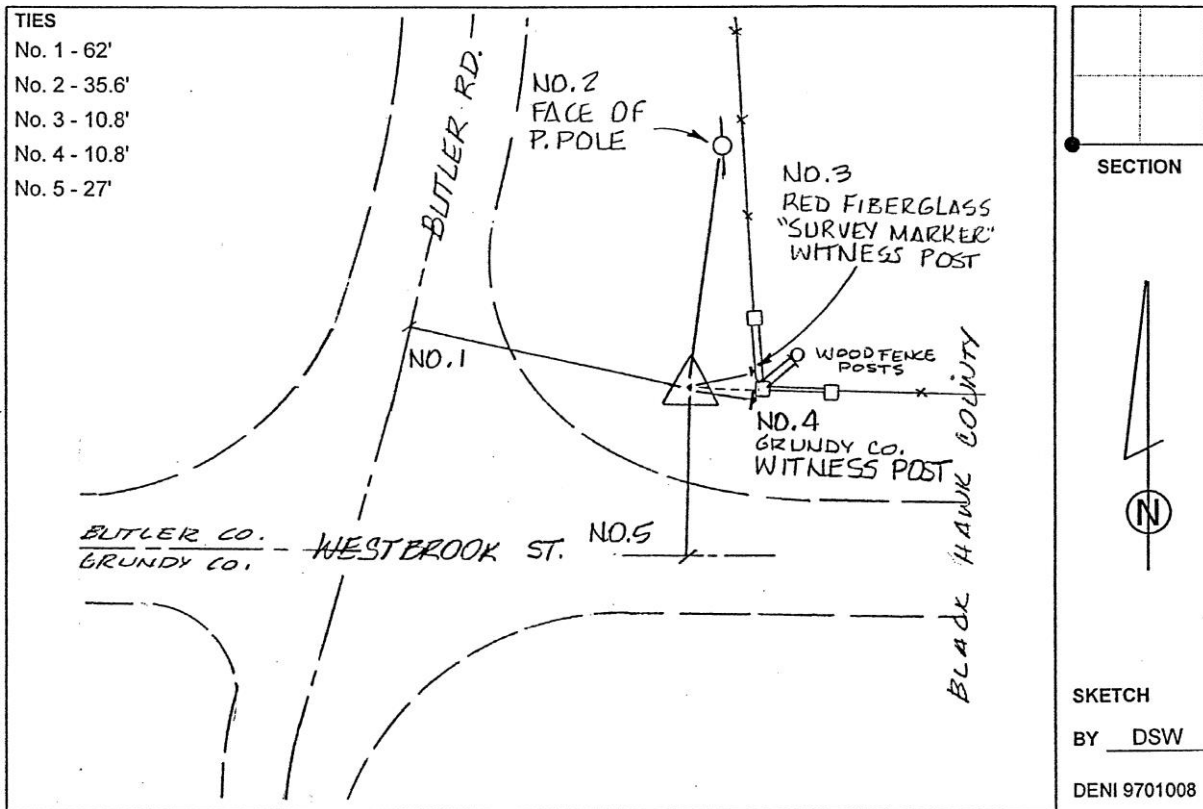
**Iowa North Zone (1401)** Northing: **3667059.428sft** Easting: **5176107.966sft**

Mapping Angle: **0°38'28"** Combination Scale Factor: **0.9999098364**

**IaRCS Zone 5** Northing: **8865857.840sft** Easting: **15418073.129sft**

Mapping Angle: **-0°12'22"** Combination Scale Factor: **0.9999959148**

**Monument Type:** 2-1/2" dia. Black Hawk County aluminum cap on 5/8" aluminum rod in 5" PVC pipe casing with aluminum access cover.



*This document was prepared by Dan Corbin, Inc. on March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7069**

**Designation:** Black Hawk Co. GPS Control Pt. 94-082 (Set by ASI in 1994)

NAD 83(NA2011) Latitude: **N42°30'48.21287"** Longitude: **W92°33'15.14821"**

NAVD 88 Ortho Height: **966.230sft** Ellip. Ht: **862.348sft** **Geoid12B**

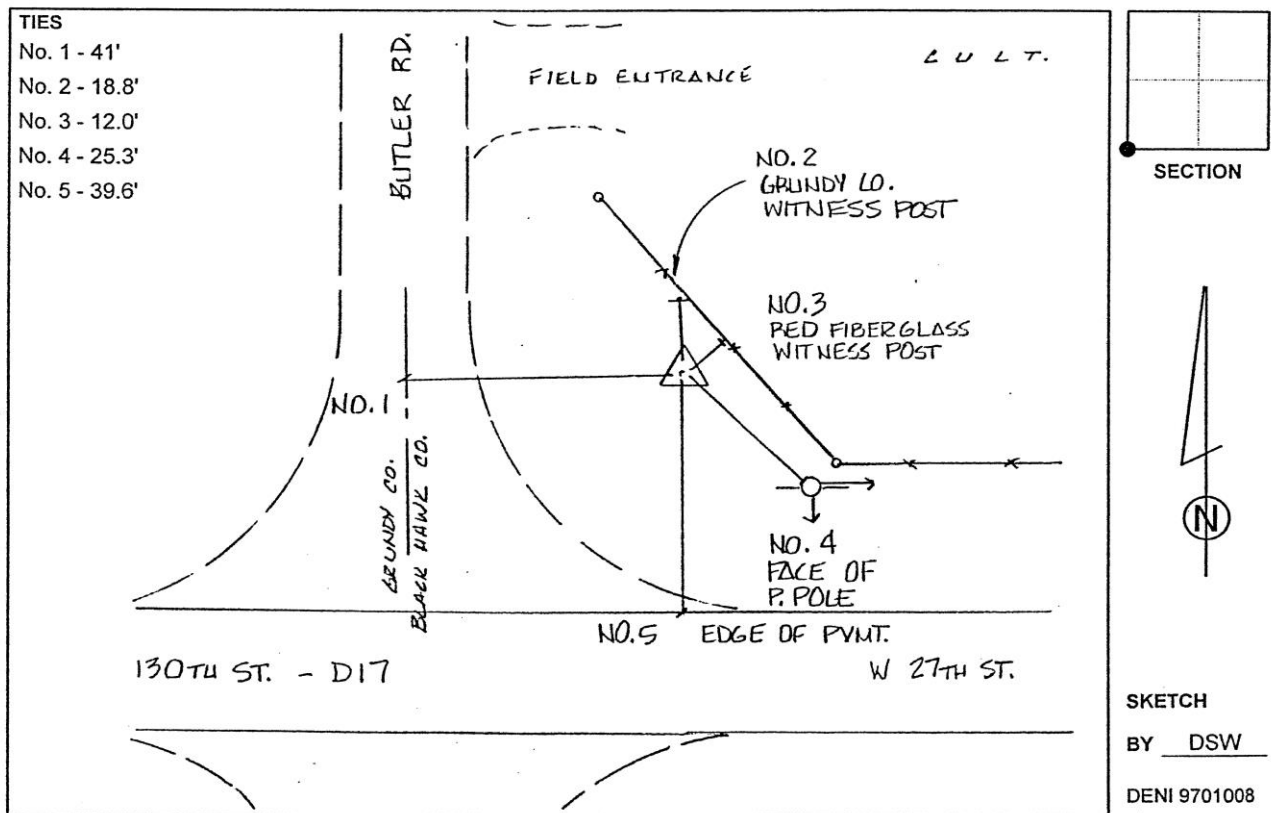
**Iowa North Zone (1401)** Northing: **3651562.444sft** Easting: **5176239.651sft**

Mapping Angle: **0°38'28"** Combination Scale Factor: **0.9999077569**

**IaRCS Zone 5** Northing: **8850359.270sft** Easting: **15417975.678sft**

Mapping Angle: **-0°12'22"** Combination Scale Factor: **0.9999936079**

**Monument Type:** 2-1/2" dia. Black Hawk County aluminum cap on 5/8" aluminum rod in 5" PVC pipe casing with aluminum access cover.



*This document was prepared by Dan Corbin, Inc. on March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7070**

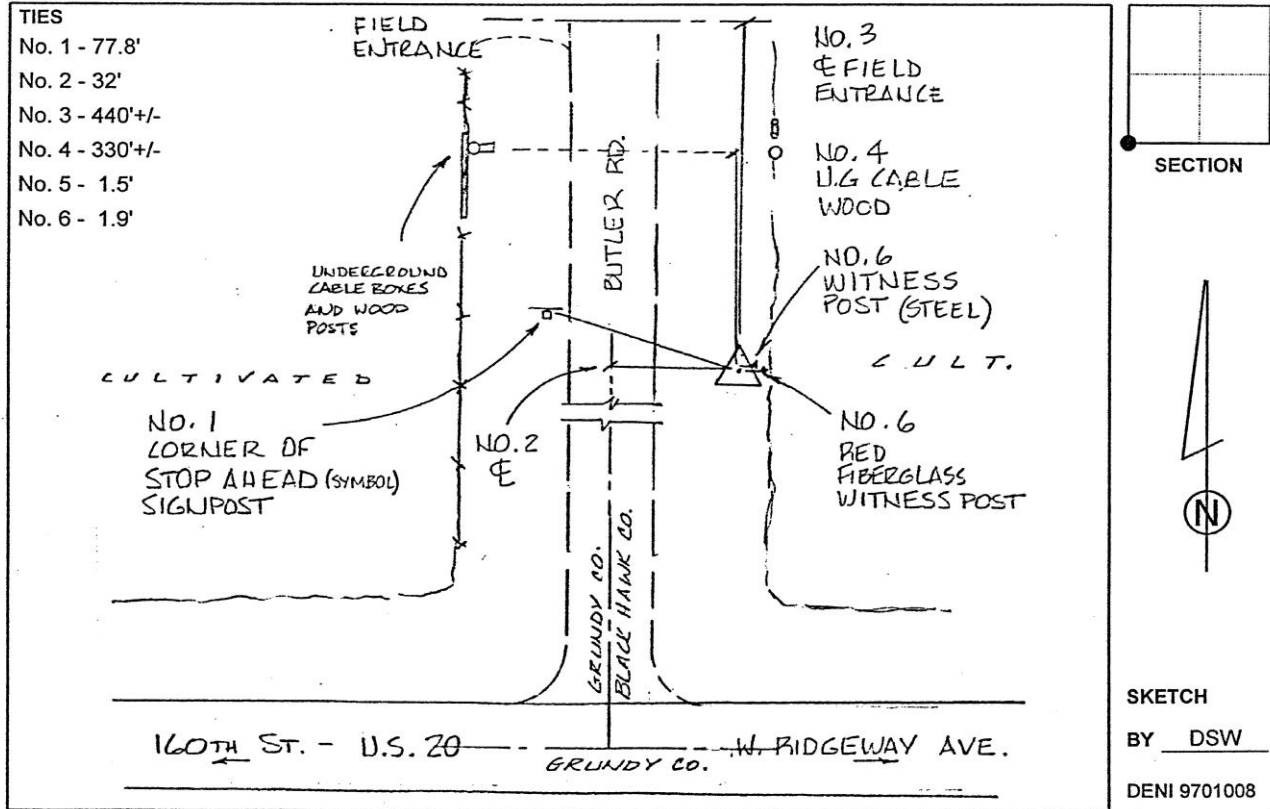
**Designation:** Black Hawk Co. GPS Control Pt. 94-005 (Set by ASI in 1994)

NAD 83(NA2011) Latitude: **N42°28'14.48169"** Longitude: **W92°33'15.25114"**  
 NAVD 88 Ortho Height: **1012.450sft** Ellip. Ht: **908.578sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3636001.205sft** Easting: **5176406.038sft**  
 Mapping Angle: **0°38'28"** Combination Scale Factor: **0.9999078196**

**IaRCS Zone 5** Northing: **8834795.937sft** Easting: **15417911.978sft**  
 Mapping Angle: **-0°12'22"** Combination Scale Factor: **0.9999934424**

**Monument Type:** 2-1/2" dia. Black Hawk County aluminum cap on 5/8" aluminum rod in 5" PVC pipe casing with aluminum access cover.



*This document was prepared by Dan Corbin, Inc. on March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7071**

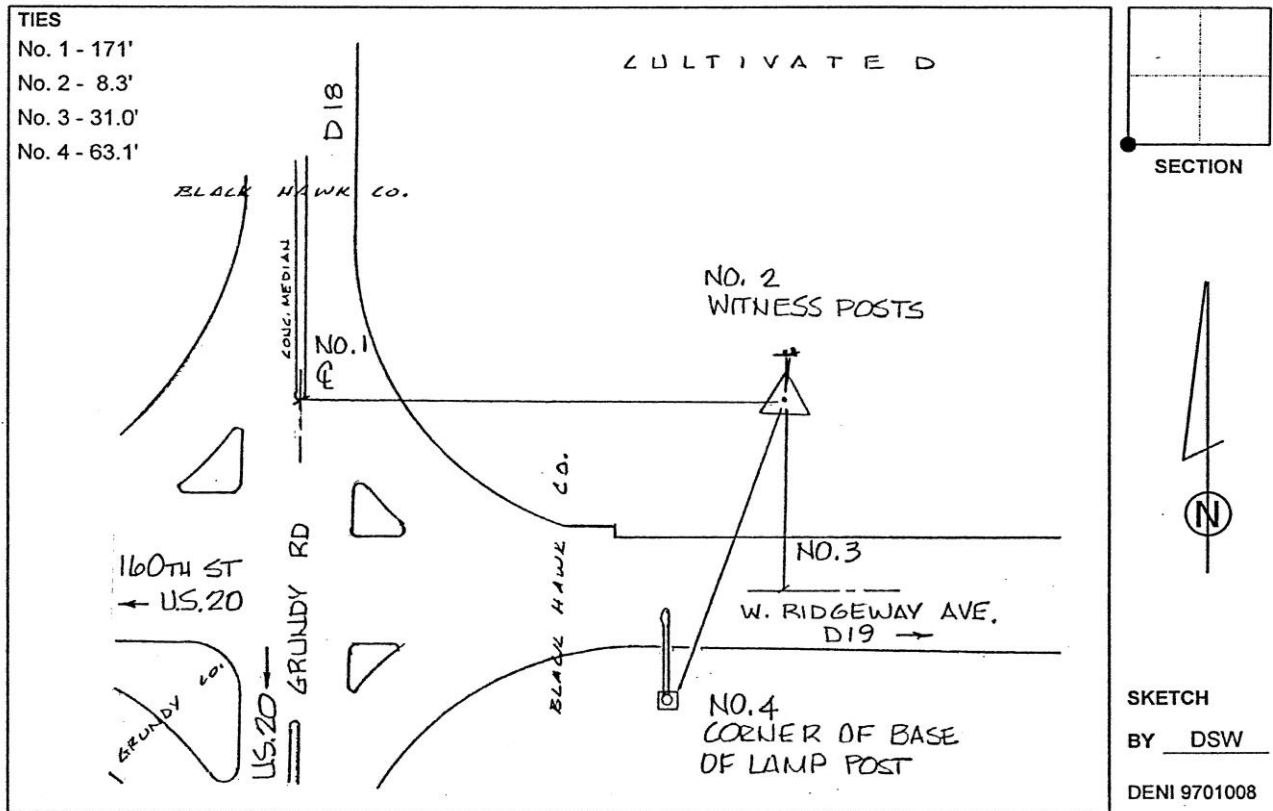
**Designation:** Black Hawk Co. GPS Control Pt. 94-006 (Set by ASI in 1994)

NAD 83(NA2011) Latitude: **N42°28'10.89923"** Longitude: **W92°32'00.12282"**  
 NAVD 88 Ortho Height: **1012.480sft** Ellip. Ht: **908.701sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3635702.261sft** Easting: **5182040.150sft**  
 Mapping Angle: **0°39'18"** Combination Scale Factor: **0.9999078733**

**IaRCS Zone 5** Northing: **8834413.696sft** Easting: **15423541.536sft**  
 Mapping Angle: **-0°11'31"** Combination Scale Factor: **0.9999934908**

**Monument Type:** 2-1/2" dia. Black Hawk County aluminum cap on 5/8" aluminum rod in 5" PVC pipe casing with aluminum access cover.



*This document was prepared by Dan Corbin, Inc. on March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

Point Name: **7072**

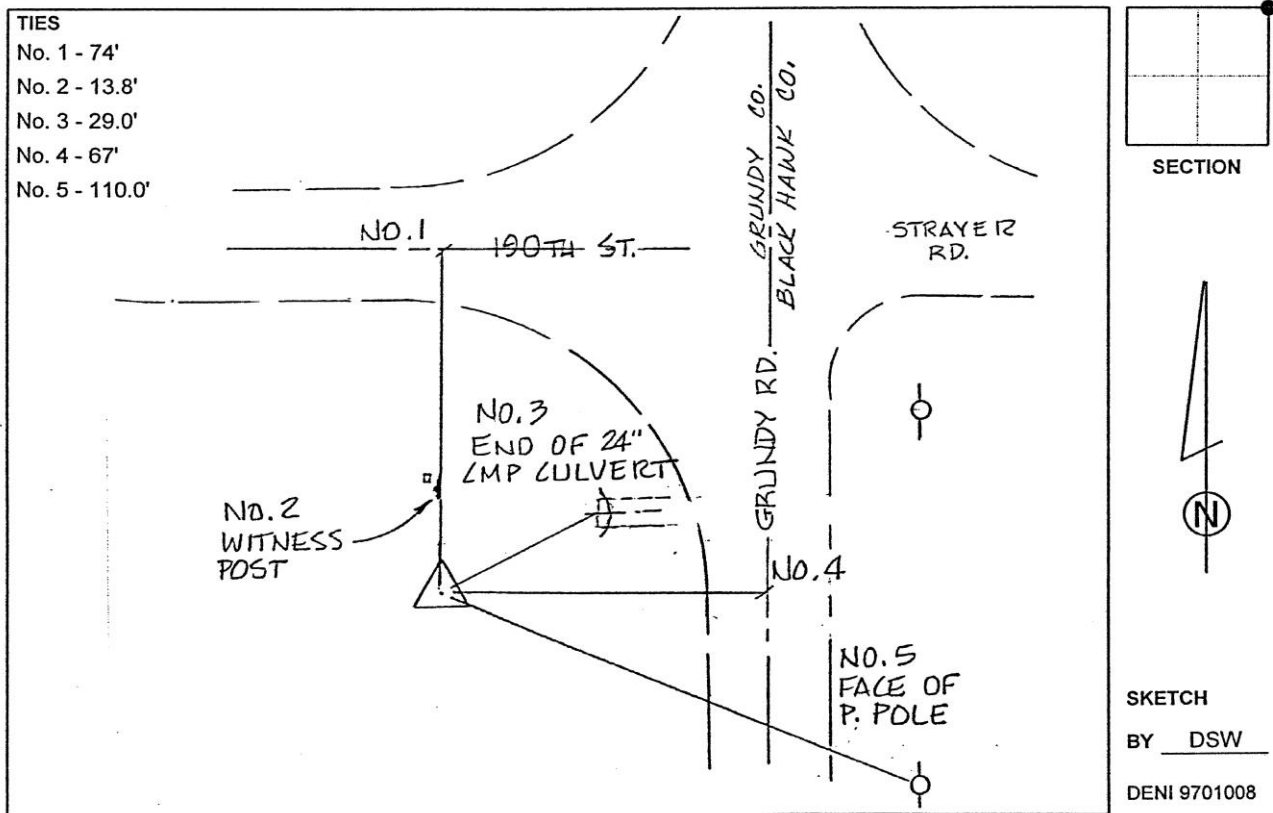
**Designation:** Grundy Co 7072 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°25'39.34750"** Longitude: **W92°32'03.10481"**  
NAVD 88 Ortho Height: **949.650sft** Ellip. Ht: **845.884sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3620359.282sft** Easting: **5181991.944sft**  
Mapping Angle: **0°39'16"** Combination Scale Factor: **0.9999136685**

**IaRCS Zone 5** Northing: **8819071.796sft** Easting: **15423266.476sft**  
Mapping Angle: **-0°11'33"** Combination Scale Factor: **0.9999990618**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7073**

**Designation:** Black Hawk Co. GPS Control Pt. 94-003 (Set by ASI in 1994)

NAD 83(NA2011) Latitude: **N42°23'04.91995"** Longitude: **W92°32'01.46398"**

NAVD 88 Ortho Height: **907.820sft** Ellip. Ht: **804.064sft** **Geoid12B**

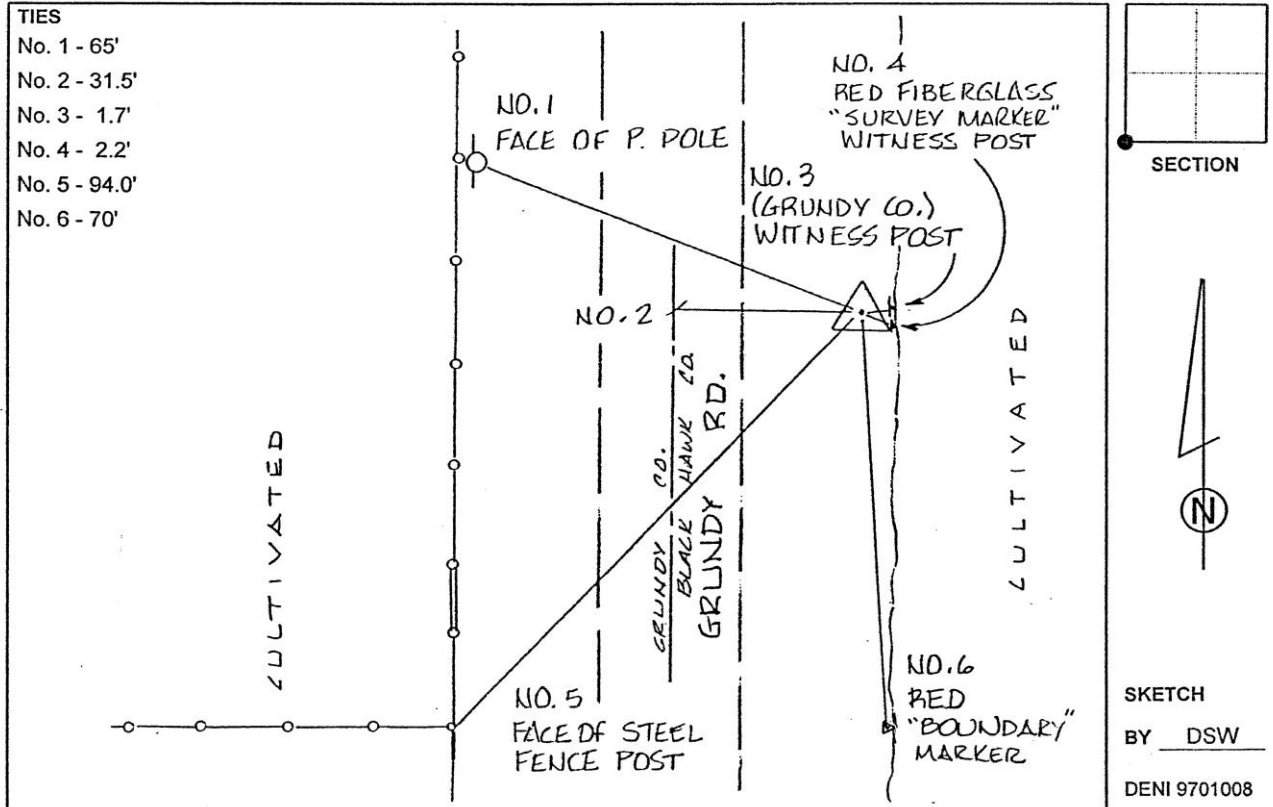
**Iowa North Zone (1401)** Northing: **3604729.236sft** Easting: **5182293.661sft**

Mapping Angle: **0°39'18"** Combination Scale Factor: **0.9999190643**

**laRCS Zone 5** Northing: **8803437.664sft** Easting: **15423337.084sft**

Mapping Angle: **-0°11'32"** Combination Scale Factor: **1.0000042292**

**Monument Type:** 2-1/2" dia. Black Hawk County aluminum cap on 5/8" aluminum rod in 5" PVC pipe casing with aluminum access cover.



*This document was prepared by Dan Corbin, Inc. on March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7074**

**Designation:** Black Hawk Co. GPS Control Pt. 94-002 (Set by ASI in 1994)

NAD 83(NA2011) Latitude: **N42°20'29.98593"** Longitude: **W92°32'01.58251"**

NAVD 88 Ortho Height: **980.044sft** Ellip. Ht: **876.306sft** **Geoid12B**

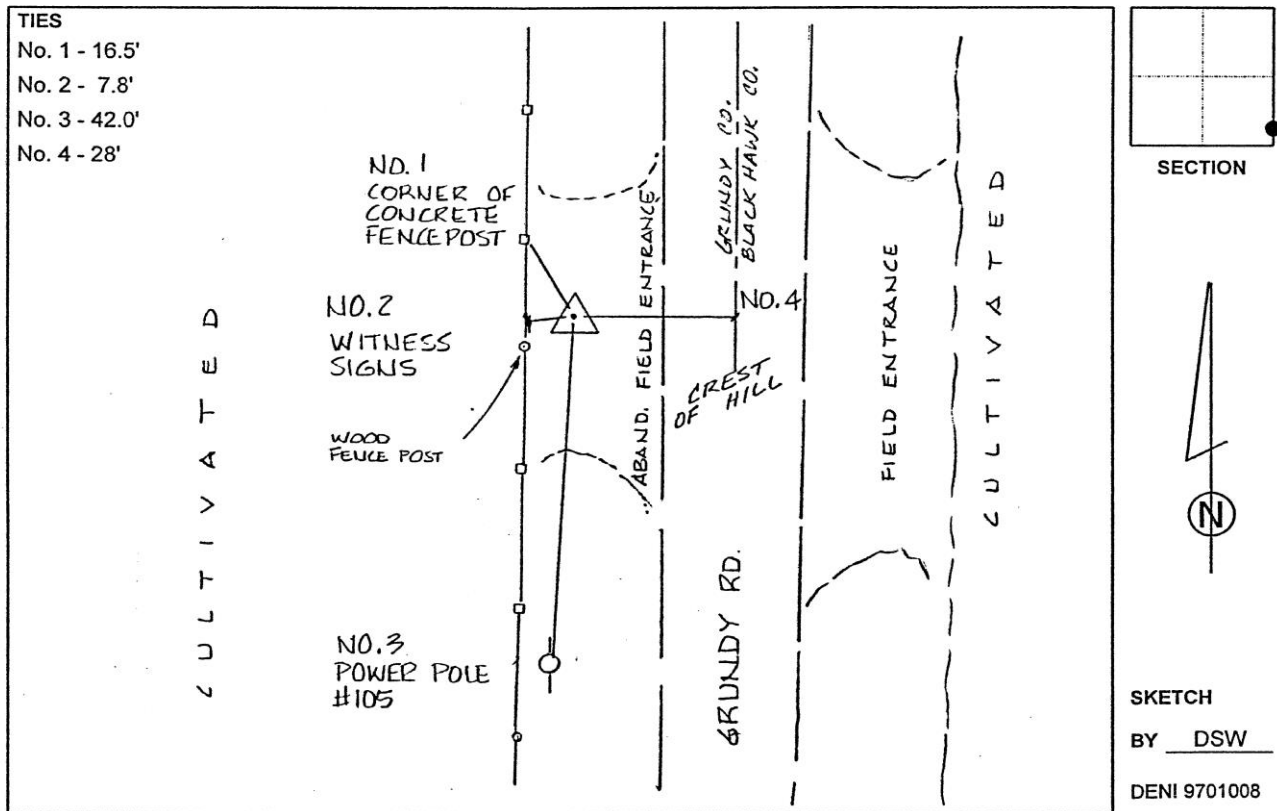
**Iowa North Zone (1401)** Northing: **3589046.476sft** Easting: **5182464.018sft**

Mapping Angle: **0°39'17"** Combination Scale Factor: **0.9999195779**

**IaRCS Zone 5** Northing: **8787752.766sft** Easting: **15423275.556sft**

Mapping Angle: **-0°11'32"** Combination Scale Factor: **1.0000045135**

**Monument Type:** 2-1/2" dia. Black Hawk County aluminum cap on 5/8" aluminum rod in 5" PVC pipe casing with aluminum access cover.



*This document was prepared by Dan Corbin, Inc. on March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7075**

**Designation:** US Coast & Geodetic Survey - Station No. 904, 38

NAD 83(NA2011) Latitude: **N42°17'49.85139"** Longitude: **W92°32'01.00279"**

NAVD 88 Ortho Height: **1015.786sft** Ellip. Ht: **912.055sft** **Geoid12B**

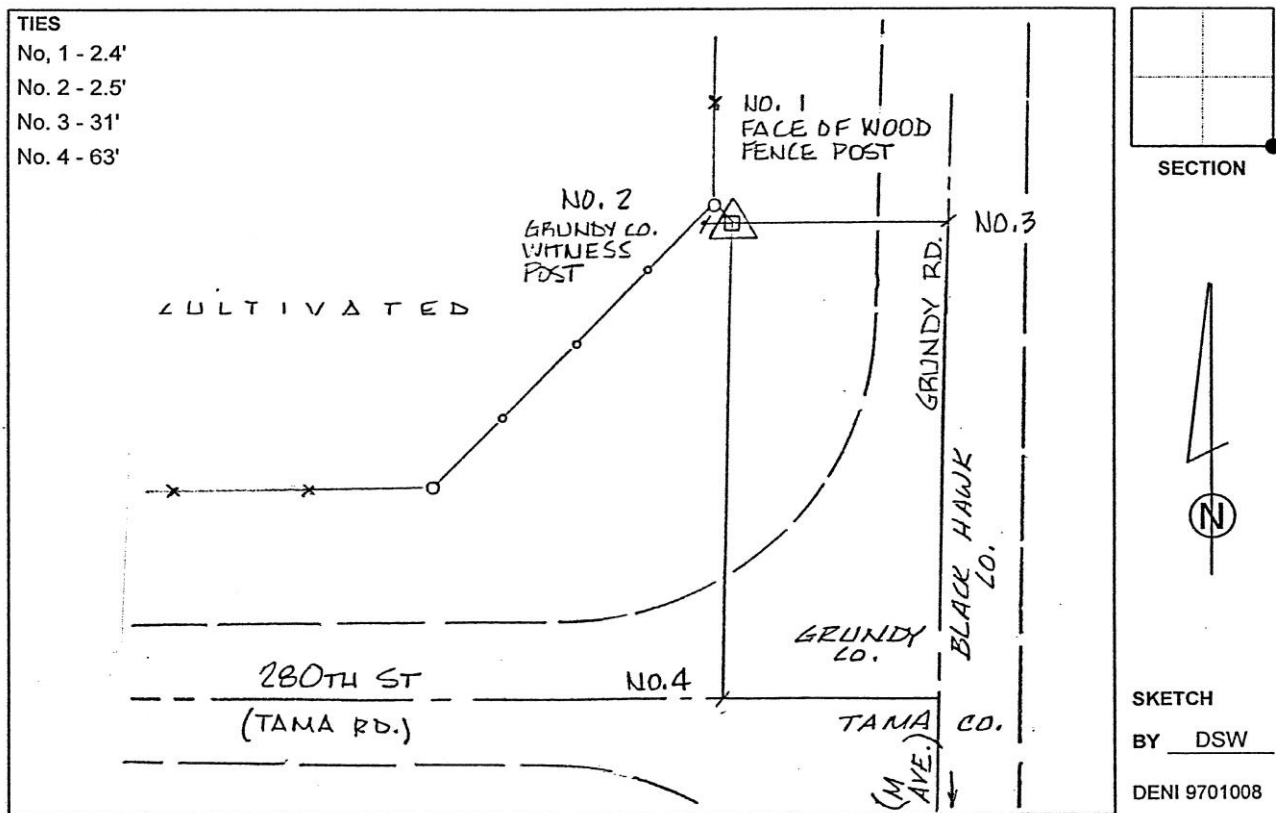
**Iowa North Zone (1401)** Northing: **3572837.966sft** Easting: **5182692.848sft**

Mapping Angle: **0°39'18"** Combination Scale Factor: **0.9999225567**

**IaRCS Zone 5** Northing: **8771541.268sft** Easting: **15423264.726sft**

Mapping Angle: **-0°11'32"** Combination Scale Factor: **1.0000072556**

**Monument Type:** 3" dia. USC & GS State Survey bronze elevation disk in 6" x 6" concrete post projecting 7" above ground.



*This document was prepared by Dan Corbin, Inc. on March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7076**

**Designation:** Grundy Co 7076 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°21'52.87290"** Longitude: **W92°45'34.08600"**

NAVD 88 Ortho Height: **986.690sft** Ellip. Ht: **882.000sft** Geoid**12B**

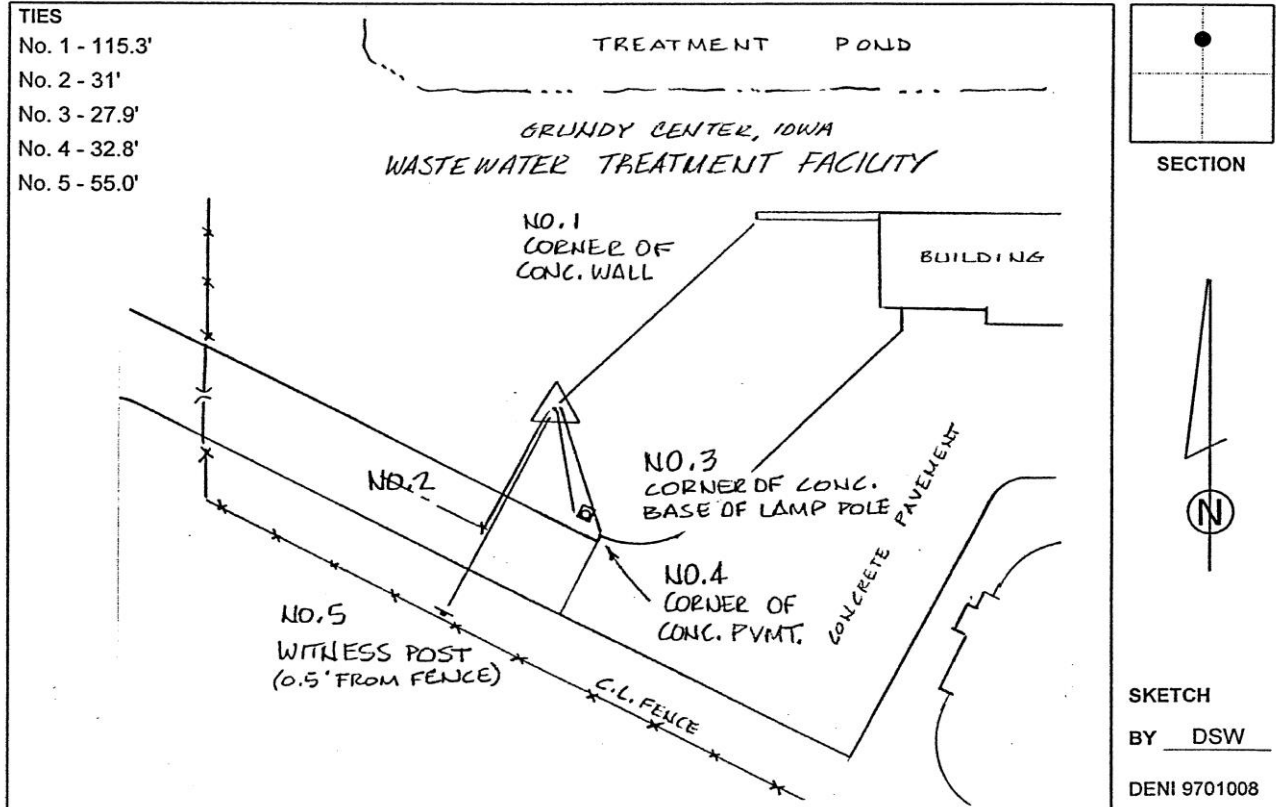
**Iowa North Zone (1401)** Northing: **3596820.716sft** Easting: **5121376.843sft**

Mapping Angle: **0°30'07"** Combination Scale Factor: **0.9999171141**

**IaRCS Zone 5** Northing: **8796430.005sft** Easting: **15362304.809sft**

Mapping Angle: **-0°20'43"** Combination Scale Factor: **1.0000021722**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

Point Name: **7077**

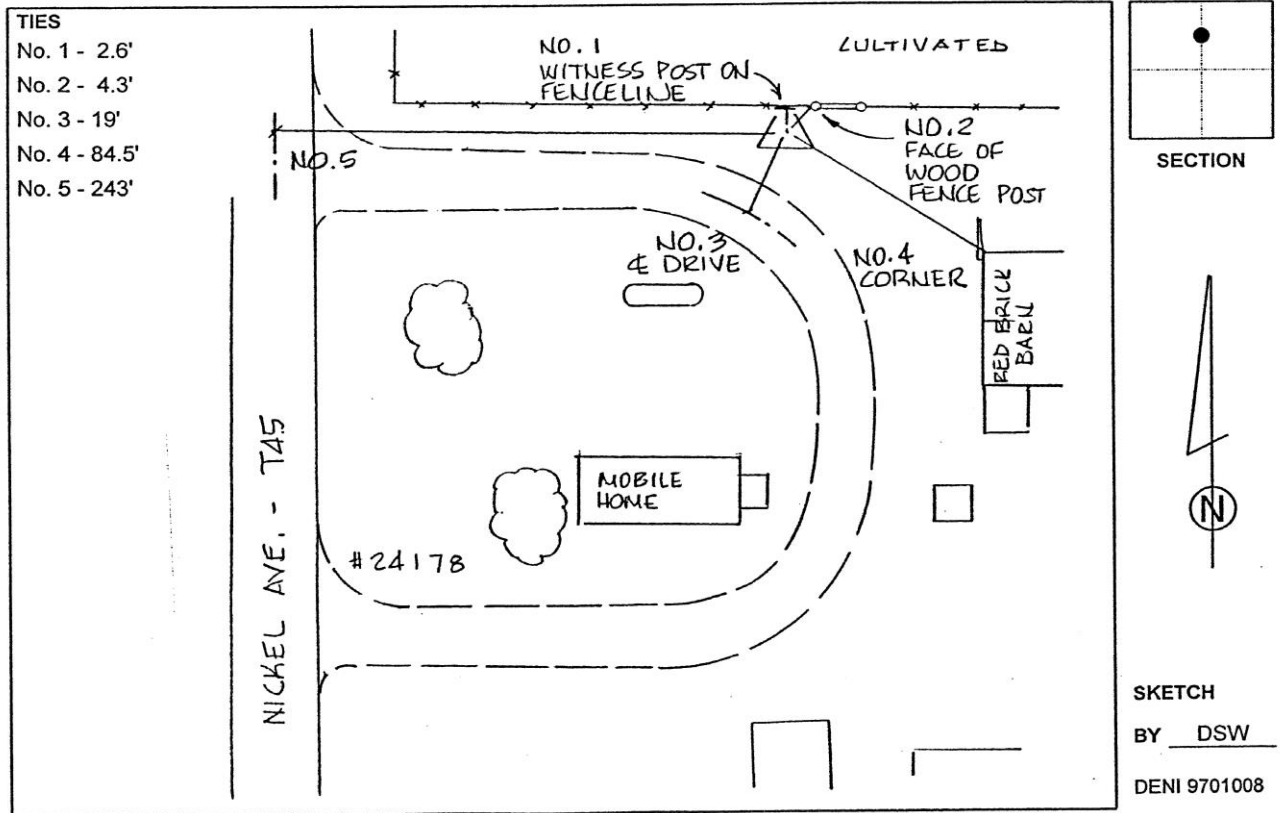
**Designation:** Grundy Co 7077 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°21'06.59643"** Longitude: **W92°45'27.82739"**  
NAVD 88 Ortho Height: **1006.814sft** Ellip. Ht: **902.131sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3592140.538sft** Easting: **5121887.787sft**  
Mapping Angle: **0°30'11"** Combination Scale Factor: **0.9999173558**

**IaRCS Zone 5** Northing: **8791742.387sft** Easting: **15362746.546sft**  
Mapping Angle: **-0°20'38"** Combination Scale Factor: **1.0000023454**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7078**

**Designation:** Grundy Co 7078 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°21'15.58966"** Longitude: **W92°47'14.38684"**

NAVD 88 Ortho Height: **1020.560sft** Ellip. Ht: **915.848sft** Geoid**12B**

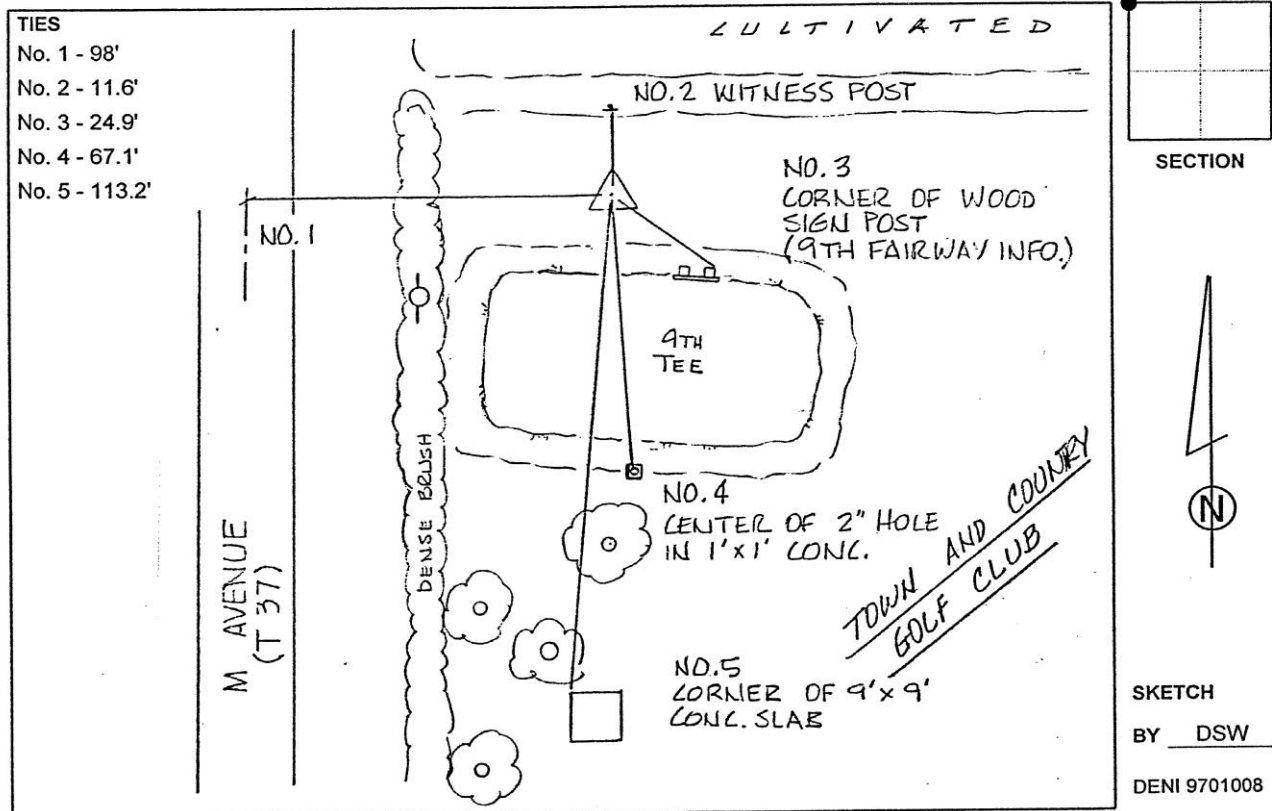
**Iowa North Zone (1401)** Northing: **3592982.024sft** Easting: **5113879.381sft**

Mapping Angle: **0°28'59"** Combination Scale Factor: **0.9999164623**

**laRCS Zone 5** Northing: **8792702.254sft** Easting: **15354750.775sft**

Mapping Angle: **-0°21'51"** Combination Scale Factor: **1.0000014651**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

Point Name: **7079**

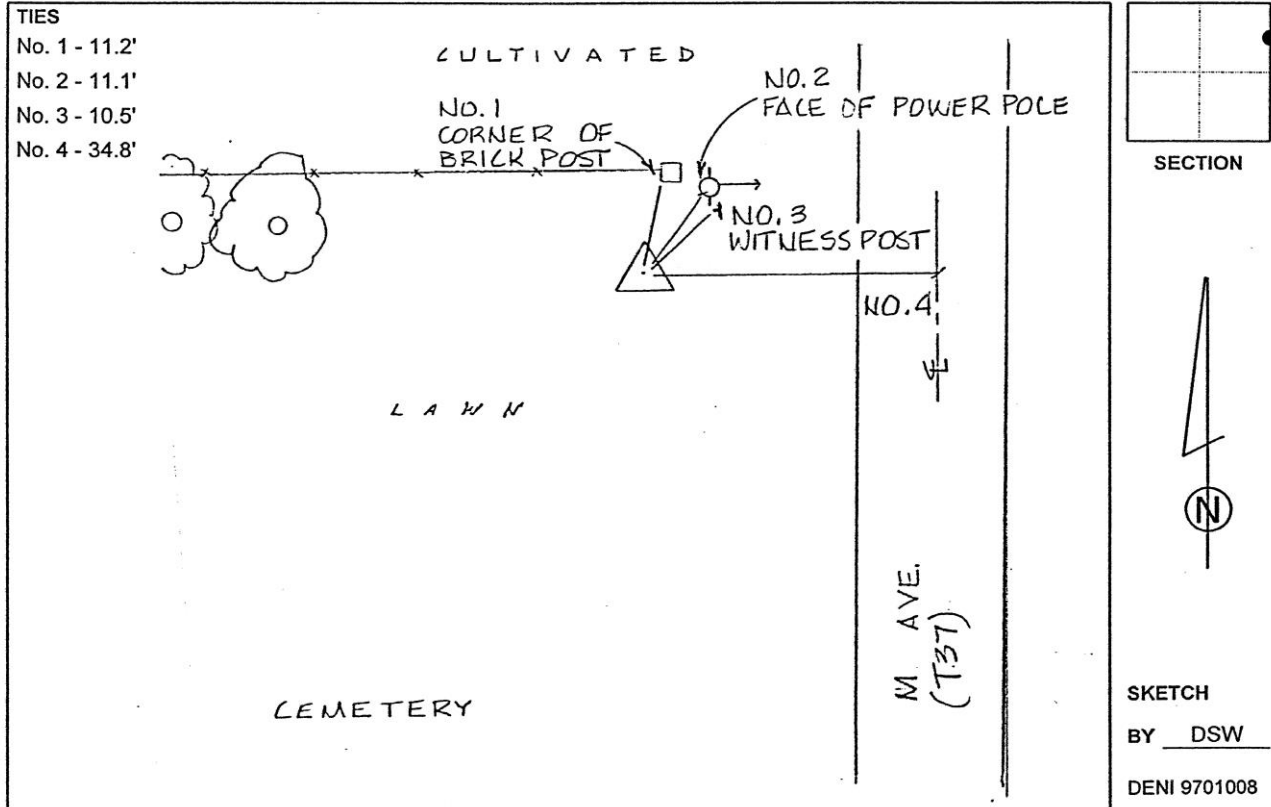
**Designation:** Grundy Co 7079 (Set by Deni Associates in 1997)

NAD 83(NA2011) Latitude: **N42°21'59.19837"** Longitude: **W92°47'16.49857"**  
NAVD 88 Ortho Height: **1019.130sft** Ellip. Ht: **914.414sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3597394.959sft** Easting: **5113683.651sft**  
Mapping Angle: **0°28'57"** Combination Scale Factor: **0.9999154041**

**IaRCS Zone 5** Northing: **8797117.976sft** Easting: **15354620.294sft**  
Mapping Angle: **-0°21'52"** Combination Scale Factor: **1.0000004714**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane North Zone (1401)  
Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
US Survey Feet  
**09/30/18**

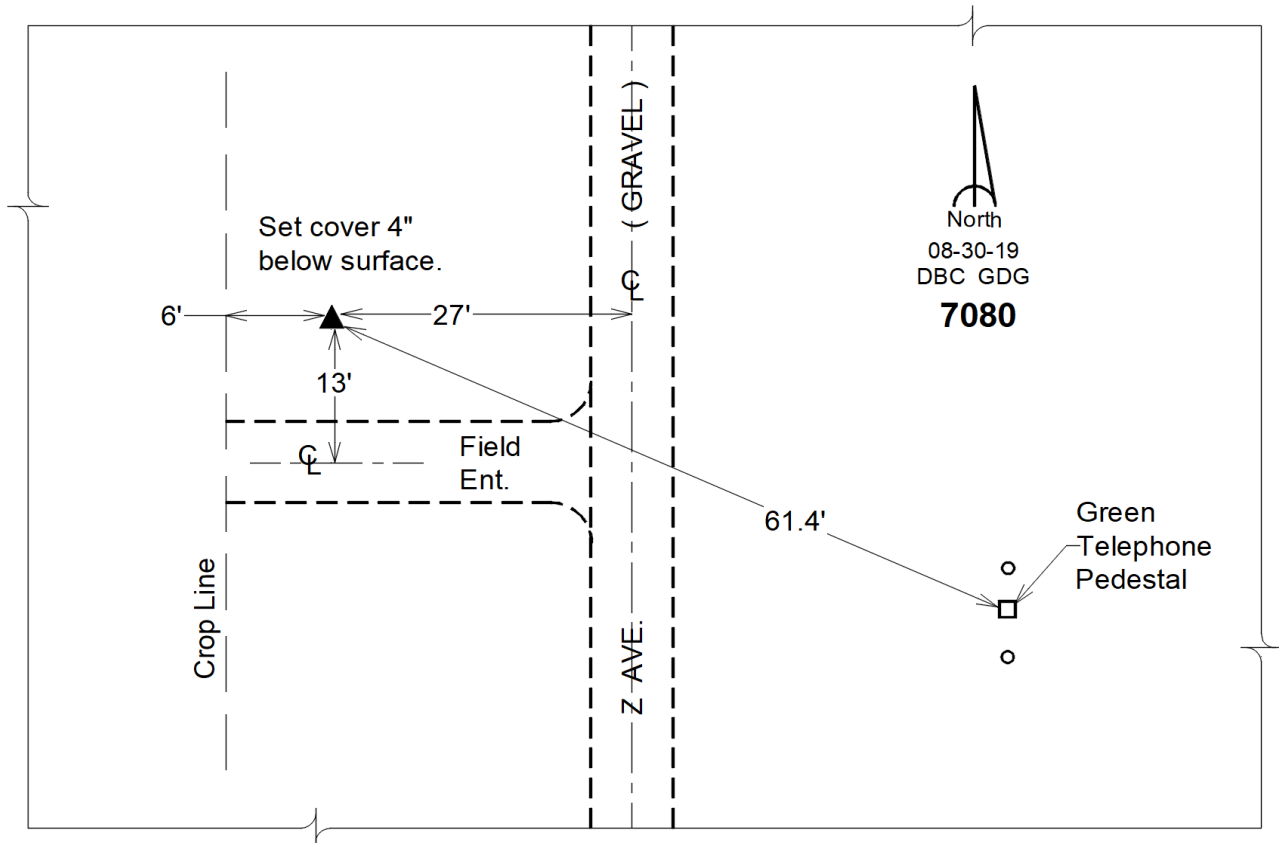
Point Name: **7080**  
**Designation:** Grundy Co 7080 (Set by DCI in 2018)

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 5** Northing: **8818876.656sft** Easting: **15296710.799sft**  
Mapping Angle: **-0°30'36"** Combination Scale Factor: **0.9999906251**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7081**

**Designation:** Grundy Co 7081 (Set by DCI in 2018)

NAD 83(NA2011) Latitude: **N42°15'10.72742"** Longitude: **W92°56'46.93526"**

NAVD 88 Ortho Height: **1040.885sft** Ellip. Ht: **936.720sft** **Geoid12B**

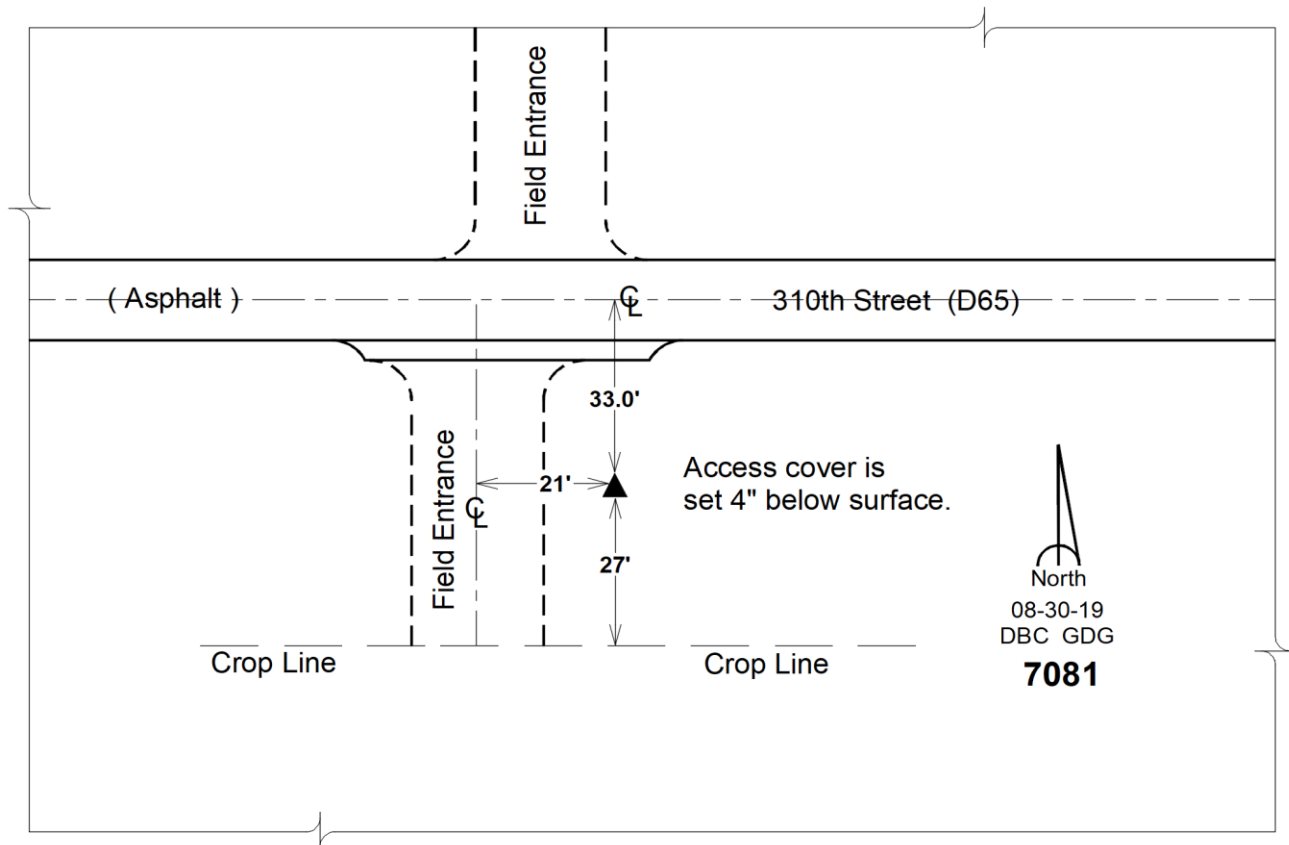
**Iowa North Zone (1401)** Northing: **3555726.695sft** Easting: **5071134.320sft**

Mapping Angle: **0°22'31"** Combination Scale Factor: **0.9999266269**

**IaRCS Zone 5** Northing: **8756079.798sft** Easting: **15311455.967sft**

Mapping Angle: **-0°28'18"** Combination Scale Factor: **1.0000110909**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

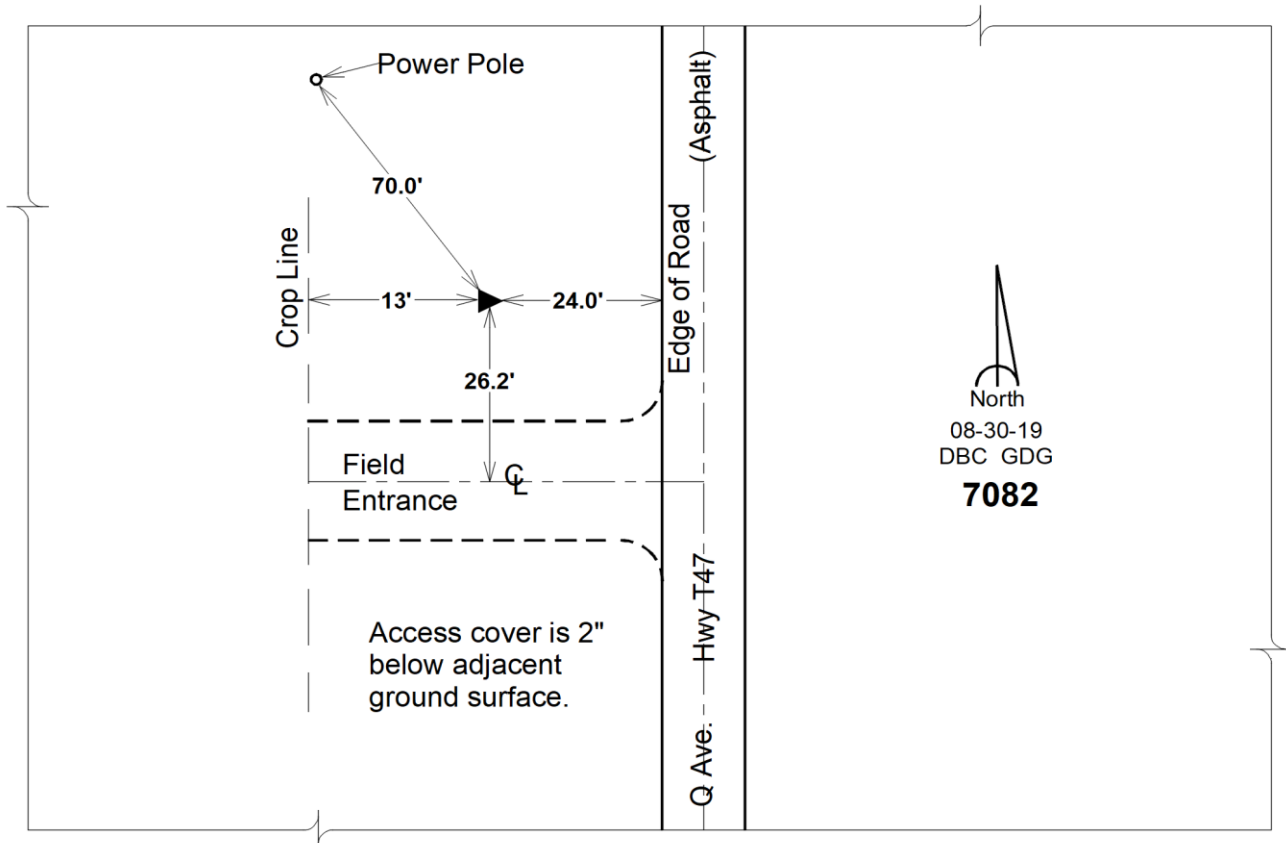
Point Name: **7082**  
**Designation:** Grundy Co 7082 (Set by DCI in 2018)

NAD 83(NA2011) Latitude: **N42°20'31.92325"** Longitude: **W92°42'35.71052"**  
 NAVD 88 Ortho Height: **988.445sft** Ellip. Ht: **883.851sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3588747.918sft** Easting: **5134843.471sft**  
 Mapping Angle: **0°32'08"** Combination Scale Factor: **0.9999191642**

**IaRCS Zone 5** Northing: **8788158.300sft** Easting: **15375651.755sft**  
 Mapping Angle: **-0°18'42"** Combination Scale Factor: **1.0000041027**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

Point Name: **7083**

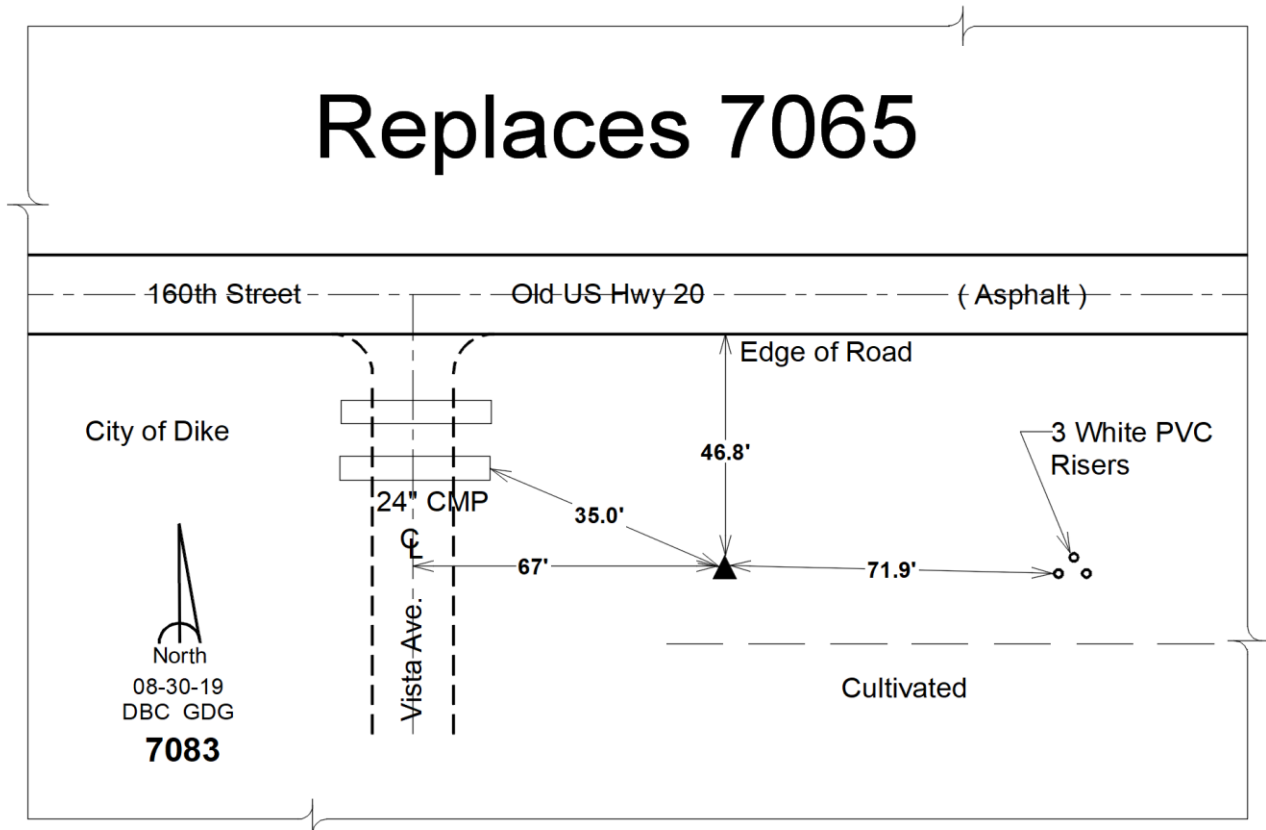
**Designation:** Grundy Co 7083 (Set by DCI in 2018)

NAD 83(NA2011) Latitude: **N42°28'10.15890"** Longitude: **W92°36'07.84562"**  
 NAVD 88 Ortho Height: **970.989sft** Ellip. Ht: **866.935sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3635422.602sft** Easting: **5163476.743sft**  
 Mapping Angle: **0°36'31"** Combination Scale Factor: **0.9999098819**

**IaRCS Zone 5** Northing: **8834408.515sft** Easting: **15404974.435sft**  
 Mapping Angle: **-0°14'19"** Combination Scale Factor: **0.9999954985**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **7100**

**Designation:** NGS: 2nd order Vertical "L 30" PID: NK0126

NAD 83(NA2011) Latitude: **N42°21'10.49444"** Longitude: **W92°42'32.78330"**

NAVD 88 Ortho Height: **968.382sft** Ellip. Ht: **863.791sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3592654.287sft** Easting: **5135026.759sft**

Mapping Angle: **0°32'10"** Combination Scale Factor: **0.9999190850**

**IaRCS Zone 5** Northing: **8792061.865sft** Easting: **15375892.794sft**

Mapping Angle: **-0°18'40"** Combination Scale Factor: **1.0000040805**

**Monument Type:** A standard disk, stamped L 30 1934 and set in the top of a concrete post projecting about 8" above the ground.



*This document was prepared by Dan Corbin, Inc. on March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**  
 Horizontal Datum: **NAD 83(NA2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane North Zone (1401)  
 Iowa Regional Coordinate System, Zone 5, Waterloo LCC  
 US Survey Feet  
**09/30/18**

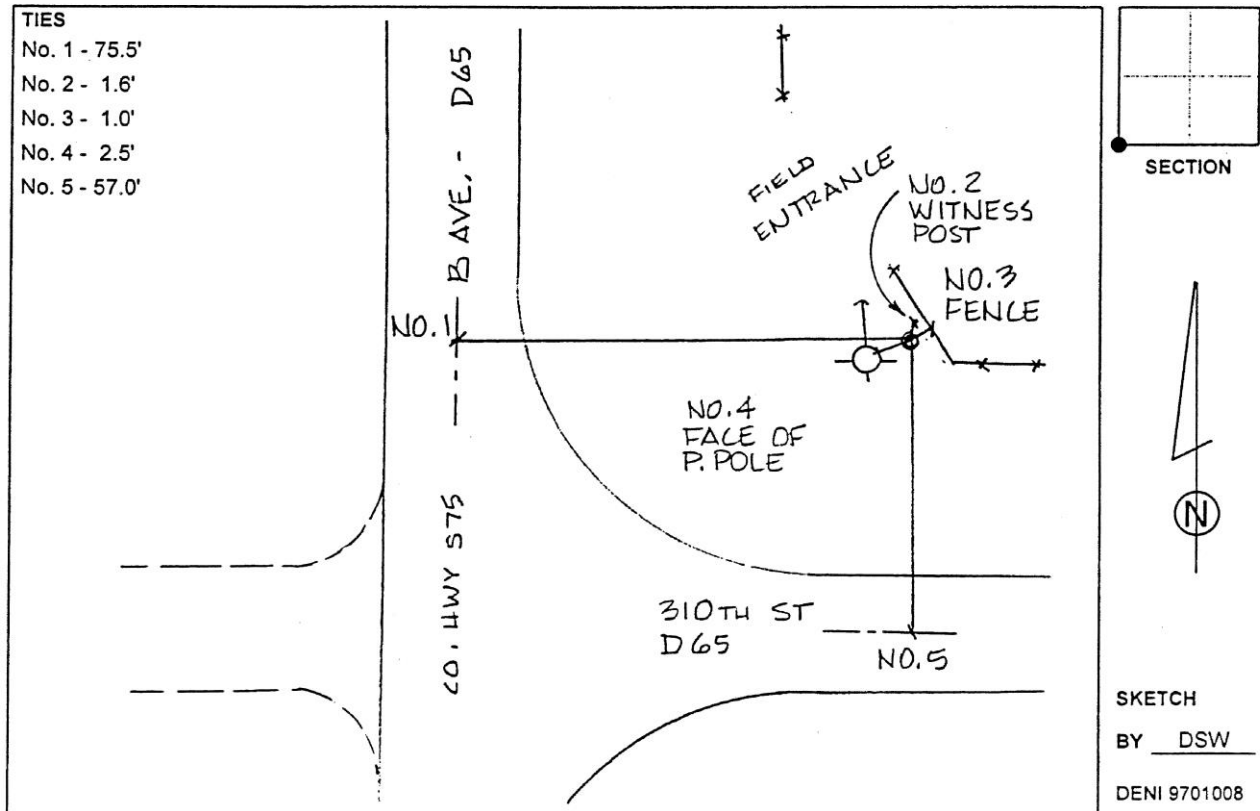
Point Name: **9709**  
 Designation: USGS: 16 LAP

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 5** Northing: **8756151.349sft** Easting: **15296505.529sft**  
 Mapping Angle: **-0°30'33"** Combination Scale Factor: **1.0000114909**

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



*This document was prepared by Dan Corbin, Inc. on March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **9780**

**Designation:** CBN: HUDSON PID: NK0584

NAD 83(NA2011) Latitude: **N42°25'46.22190"** Longitude: **W92°27'56.61685"**

NAVD 88 Ortho Height: **956.760sft** Ellip. Ht: **853.429sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3621273.780sft** Easting: **5200467.350sft**

Mapping Angle: **0°42'04"** Combination Scale Factor: **0.9999131696**

**IaRCS Zone 5** Northing: **8819713.098sft** Easting: **15441754.961sft**

Mapping Angle: **-0°08'46"** Combination Scale Factor: **0.9999985730**

**Monument Type:** Standard USGS disk stamped "ET Hudson 1970" set on top of a 1/2" copper rod and centered in 6" dia. tile.



*This document was prepared by Dan Corbin, Inc. on March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **9782**

**Designation:** CBN: BROOK PID: NK0611

NAD 83(NA2011) Latitude: **N42°10'00.41825"** Longitude: **W92°41'20.72745"**

NAVD 88 Ortho Height: **1040.770sft** Ellip. Ht: **936.496sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3524878.540sft** Easting: **5141087.370sft**

Mapping Angle: **0°32'59"** Combination Scale Factor: **0.9999385680**

**IaRCS Zone 5** Northing: **8724198.192sft** Easting: **15380951.189sft**

Mapping Angle: **-0°17'51"** Combination Scale Factor: **1.0000225746**

**Monument Type:** Standard USGS disk stamped "ET Brook 1970" set on top of a 1/2" copper rod and centered in 6" dia. tile.



*This document was prepared by Dan Corbin, Inc. on March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **9784**

**Designation:** CBN: SALEM PID: NK0652

NAD 83(NA2011) Latitude: **N42°30'48.92022"** Longitude: **W92°45'47.64120"**

NAVD 88 Ortho Height: **1093.960sft** Ellip. Ht: **989.413sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3651073.240sft** Easting: **5119886.390sft**

Mapping Angle: **0°29'58"** Combination Scale Factor: **0.9999016746**

**IaRCS Zone 5** Northing: **8850703.273sft** Easting: **15361616.505sft**

Mapping Angle: **-0°20'52"** Combination Scale Factor: **0.9999875260**

**Monument Type:** Standard USGS disk stamped "ET Salem 1970" set on top of a 1/2" copper rod and centered in 6" dia. tile.



*This document was prepared by Dan Corbin, Inc. on March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

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** Geoid**12B**

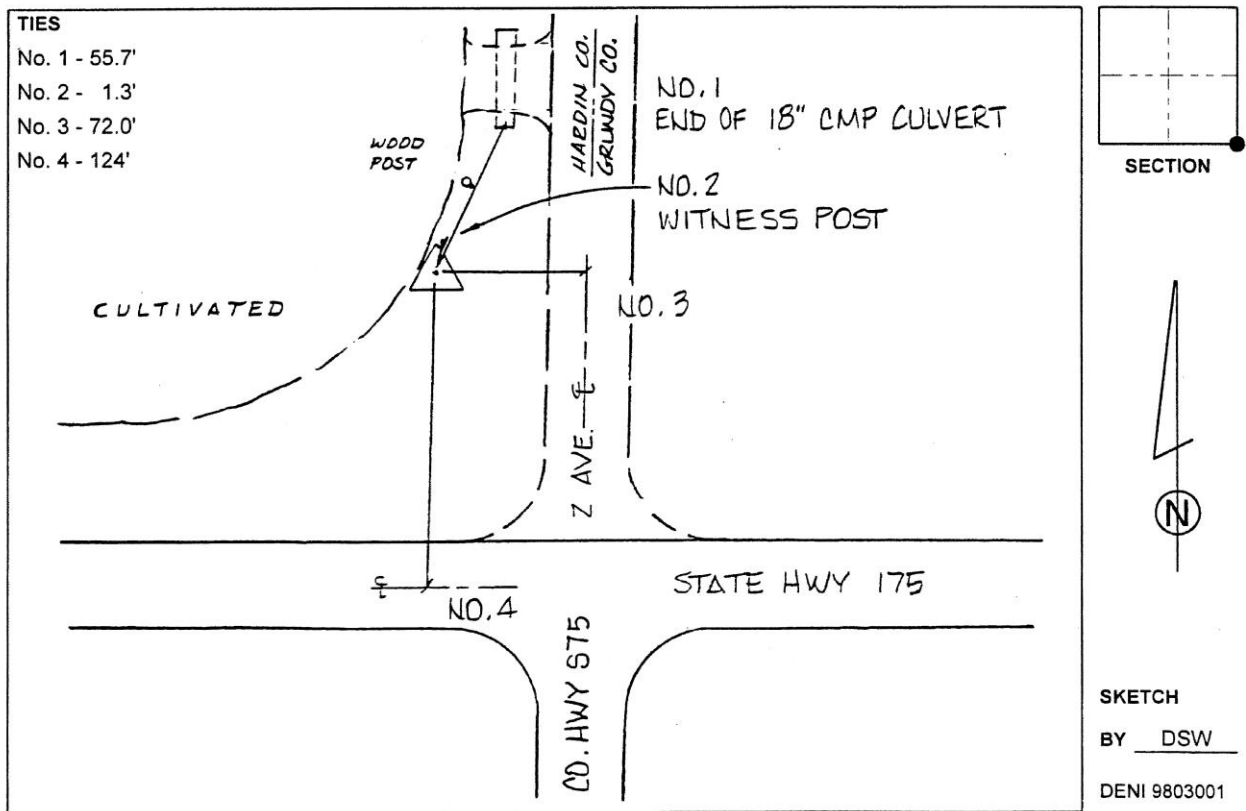
**Iowa North Zone (1401)** Northing: **3592495.100sft** Easting: **5055705.547sft**

Mapping Angle: **0°20'14"** Combination Scale Factor: **0.9999134130**

**IaRCS Zone 5** Northing: **8793075.400sft** Easting: **15296571.155sft**

Mapping Angle: **-0°30'36"** Combination Scale Factor: **0.9999984146**

**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 March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*

**Grundy County, Iowa**

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

Iowa State Plane North Zone (1401)

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

US Survey Feet

**09/30/18**

Point Name: **9798**

**Designation:** USGS: 1 LAP

NAD 83(NA2011) Latitude: **N42°18'38.93637"** Longitude: **W92°45'28.95314"**

NAVD 88 Ortho Height: **1045.210sft** Ellip. Ht: **940.556sft** **Geoid12B**

**Iowa North Zone (1401)** Northing: **3577193.056sft** Easting: **5121934.447sft**

Mapping Angle: **0°30'10"** Combination Scale Factor: **0.9999196941**

**IaRCS Zone 5** Northing: **8776794.580sft** Easting: **15362572.209sft**

Mapping Angle: **-0°20'39"** Combination Scale Factor: **1.0000044654**

**Monument Type:** Standard USGS disk stamped "LAP 1 1974" set on a copper rod in concrete pipe sleeve.



*This document was prepared by Dan Corbin, Inc. on March 11<sup>th</sup>, 2019 for Grundy County, Iowa.*