

Fremont County  
Iowa

**National Adjustment 2011  
(NA2011)**

Monument  
Records

**2015**

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

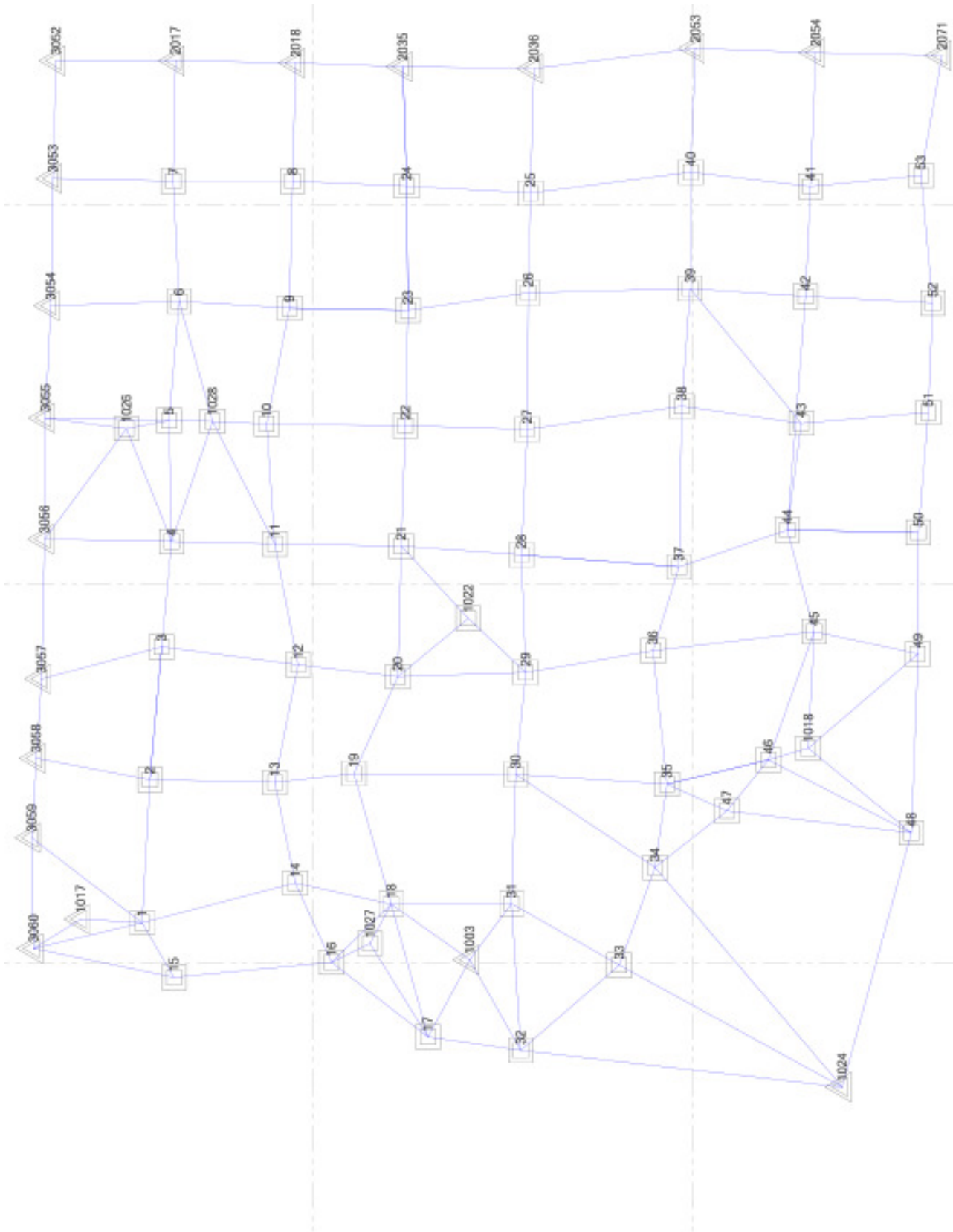
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Cell: (319) 231-7047  
Fax: (319) 266-3398  
E-Mail: dcorbin@cfu.net

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**NA2011 Adjustment, Network Vectors - Fremont County, IA**

20000 ft

**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**

Iowa State Plane South Zone (1402)

Iowa Regional Coordinate System Zone 6 Council Bluffs

US Survey Feet

**2015**

Point Name: **1**

**Designation:** 2010-001 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°51'46.24336"** Longitude: **W95°47'46.87563"**

NAVD 88 Ortho Height: **938.906sft** Ellip. Ht: **845.566sft** **Geoid12A**

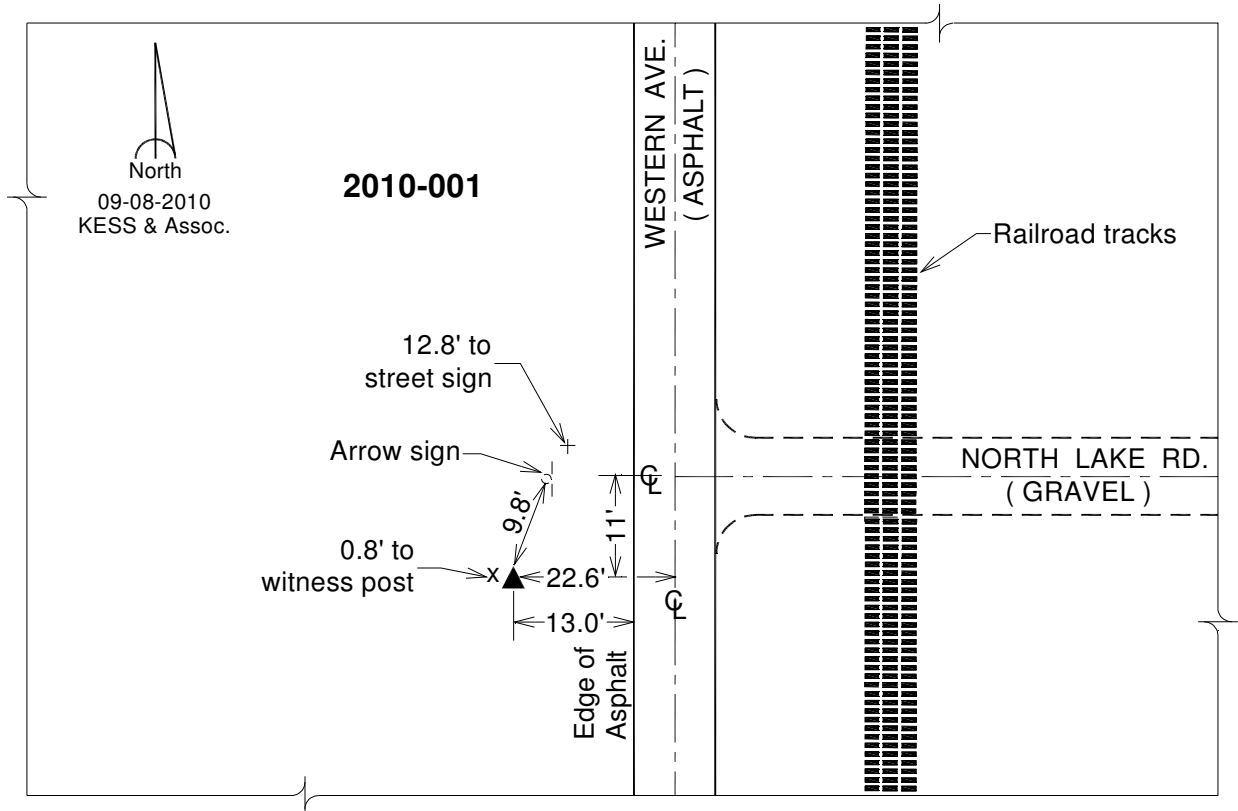
Iowa South Zone (1402) Northing: **322744.586sft** Easting: **1005329.324sft**

Mapping Angle: **-1°30'45"** Combination Scale Factor: **0.999925329**

IaRCS Zone 6 Northing: **6823287.588sft** Easting: **16482567.398sft**

Mapping Angle: **-0°02'28"** Combination Scale Factor: **0.999998997**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**

Iowa State Plane South Zone (1402)

Iowa Regional Coordinate System Zone 6 Council Bluffs

US Survey Feet

**2015**

Point Name: **2**

**Designation:** 2010-002 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°51'40.89379"** Longitude: **W95°43'40.42825"**

NAVD 88 Ortho Height: **1161.721sft** Ellip. Ht: **1067.322sft** **Geoid12A**

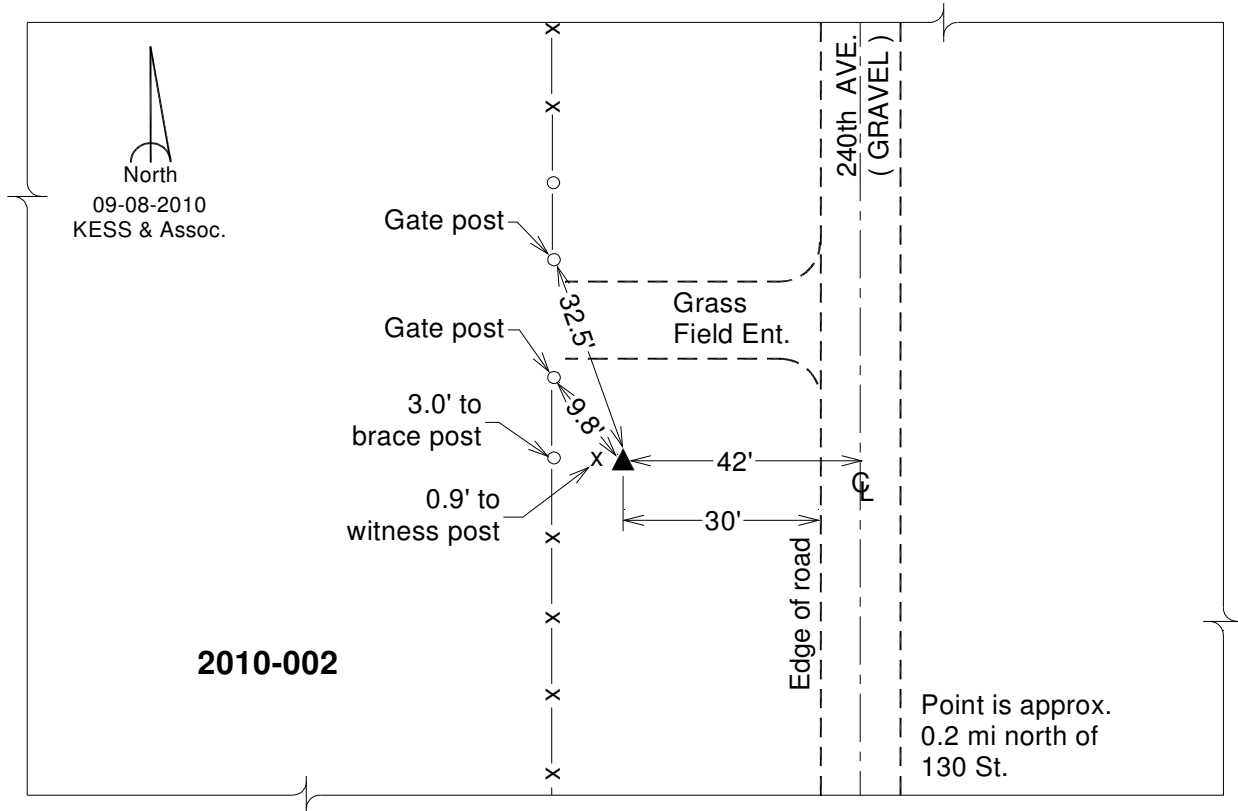
Iowa South Zone (1402) Northing: **321710.996sft** Easting: **1024244.116sft**

Mapping Angle: **-1°28'03"** Combination Scale Factor: **0.999914901**

IaRCS Zone 6 Northing: **6822739.934sft** Easting: **16501503.882sft**

Mapping Angle: **0°00'13"** Combination Scale Factor: **0.999988071**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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 US Survey Feet  
**2015**

Point Name: **3**

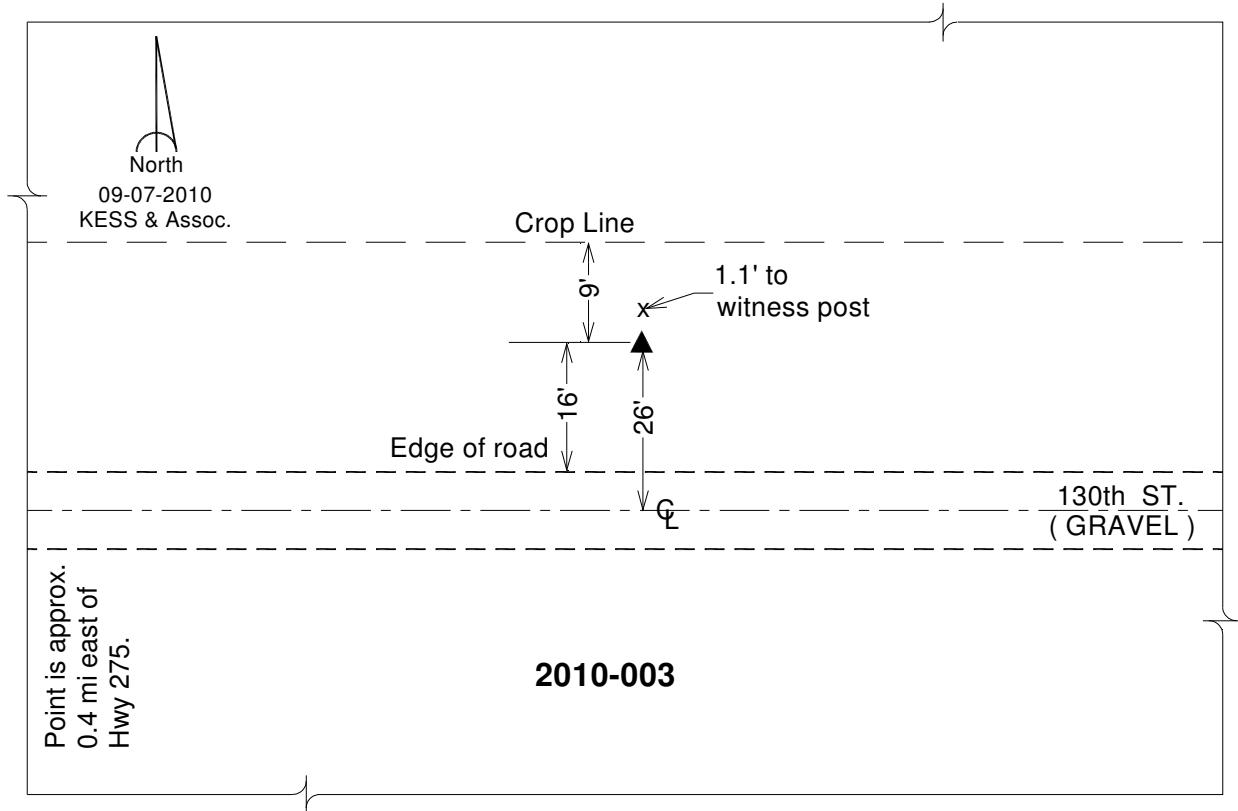
**Designation:** 2010-003 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°51'30.17494"** Longitude: **W95°39'51.62337"**  
 NAVD 88 Ortho Height: **1169.920sft** Ellip. Ht: **1074.501sft** **Geoid12A**

Iowa South Zone (1402) Northing: **320182.754sft** Easting: **1041791.471sft**  
 Mapping Angle: **-1°25'32"** Combination Scale Factor: **0.999914866**

IaRCS Zone 6 Northing: **6821662.554sft** Easting: **16519085.970sft**  
 Mapping Angle: **0°02'42"** Combination Scale Factor: **0.999988142**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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Iowa State Plane South Zone (1402)  
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US Survey Feet  
**2015**

Point Name: **4**

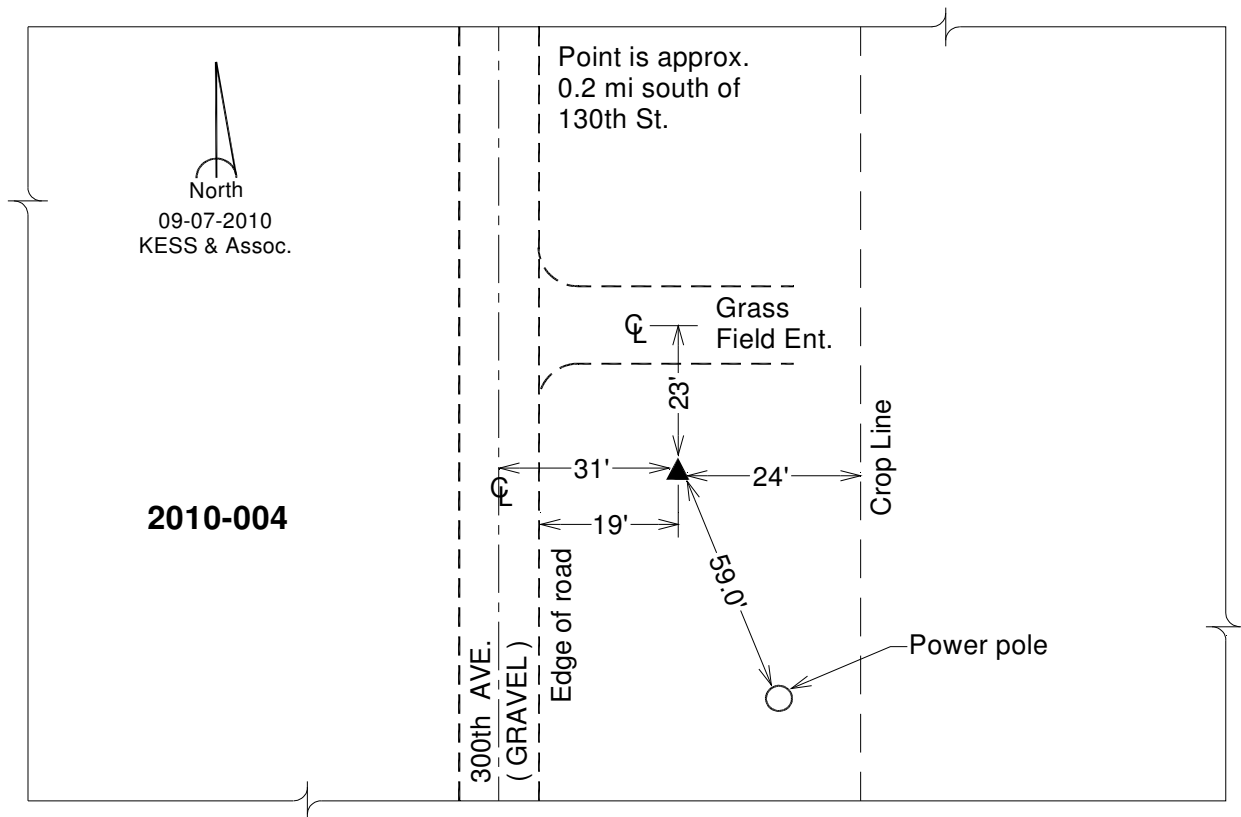
**Designation:** 2010-004 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°51'20.41943"** Longitude: **W95°36'50.09444"**  
NAVD 88 Ortho Height: **1099.910sft** Ellip. Ht: **1003.666sft** **Geoid12A**

Iowa South Zone (1402) Northing: **318852.781sft** Easting: **1055711.448sft**  
Mapping Angle: **-1°23'33"** Combination Scale Factor: **0.999918527**

IaRCS Zone 6 Northing: **6820690.207sft** Easting: **16533036.521sft**  
Mapping Angle: **0°04'41"** Combination Scale Factor: **0.999992353**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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US Survey Feet  
**2015**

Point Name: **5**

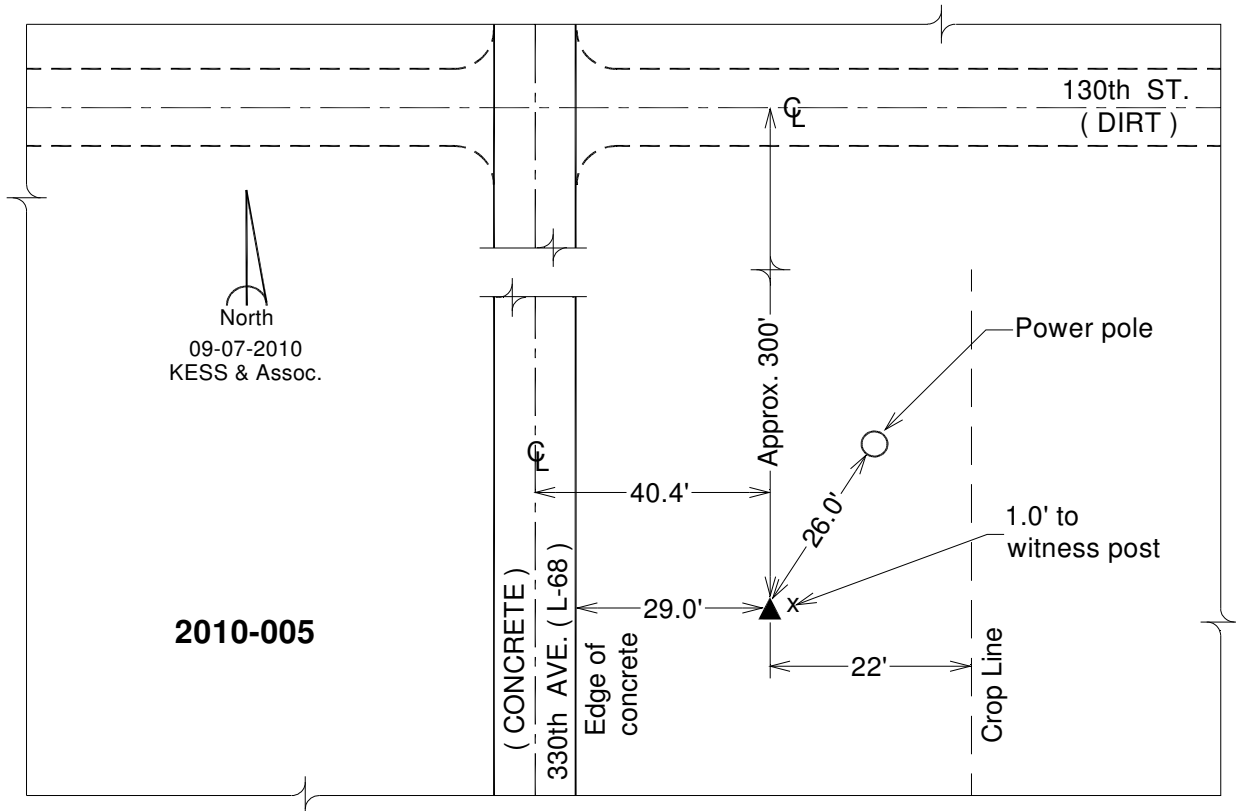
**Designation:** 2010-005 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°51'27.28517"** Longitude: **W95°33'22.03050"**  
NAVD 88 Ortho Height: **997.251sft** Ellip. Ht: **900.253sft** **Geoid12A**

Iowa South Zone (1402) Northing: **319164.219sft** Easting: **1071710.996sft**  
Mapping Angle: **-1°21'16"** Combination Scale Factor: **0.999923263**

IaRCS Zone 6 Northing: **6821412.161sft** Easting: **16549024.002sft**  
Mapping Angle: **0°06'57"** Combination Scale Factor: **0.999998787**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**2015**

Point Name: **6**

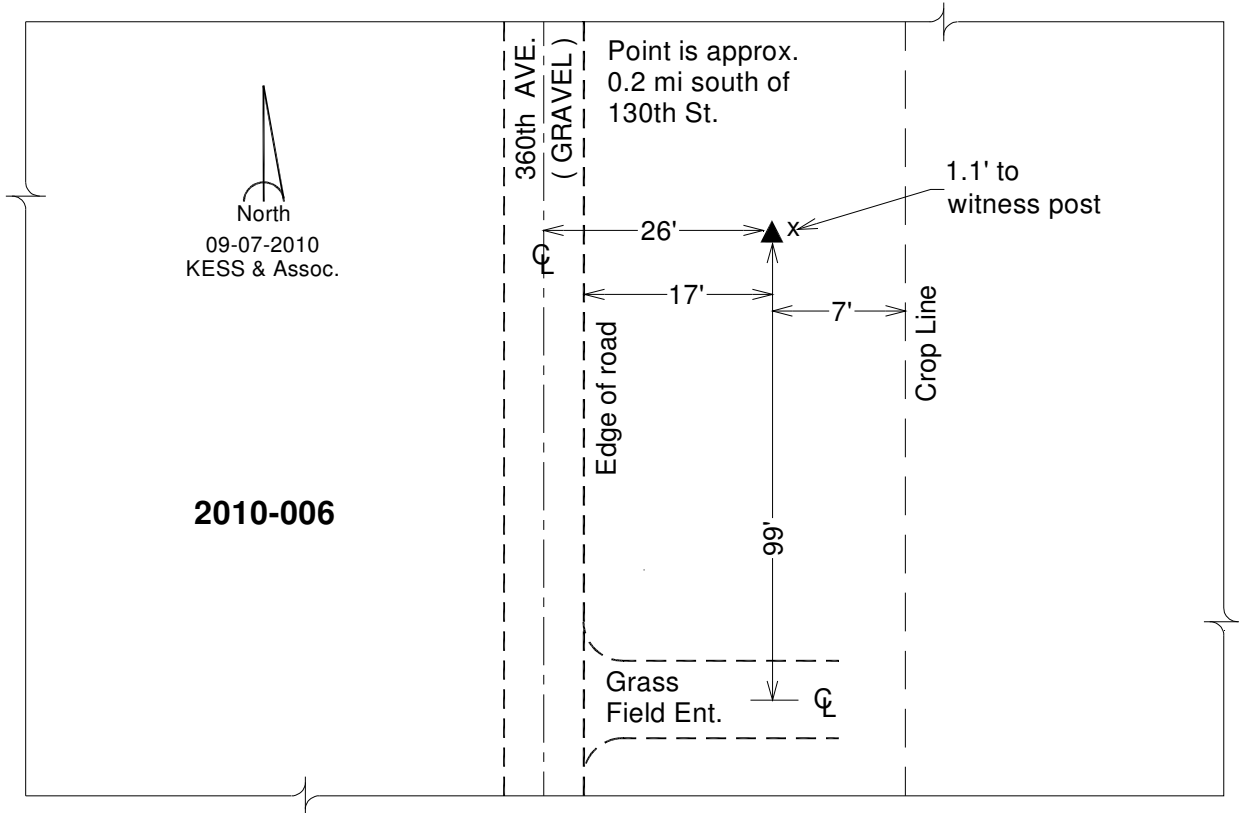
**Designation:** 2010-006 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°51'18.08723"** Longitude: **W95°29'56.66667"**  
 NAVD 88 Ortho Height: **1089.742sft** Ellip. Ht: **992.033sft** **Geoid12A**

Iowa South Zone (1402) Northing: **317865.815sft** Easting: **1087465.103sft**  
 Mapping Angle: **-1°19'00"** Combination Scale Factor: **0.999919150**

IaRCS Zone 6 Northing: **6820518.310sft** Easting: **16564807.441sft**  
 Mapping Angle: **0°09'12"** Combination Scale Factor: **0.999996461**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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US Survey Feet  
**2015**

Point Name: **7**

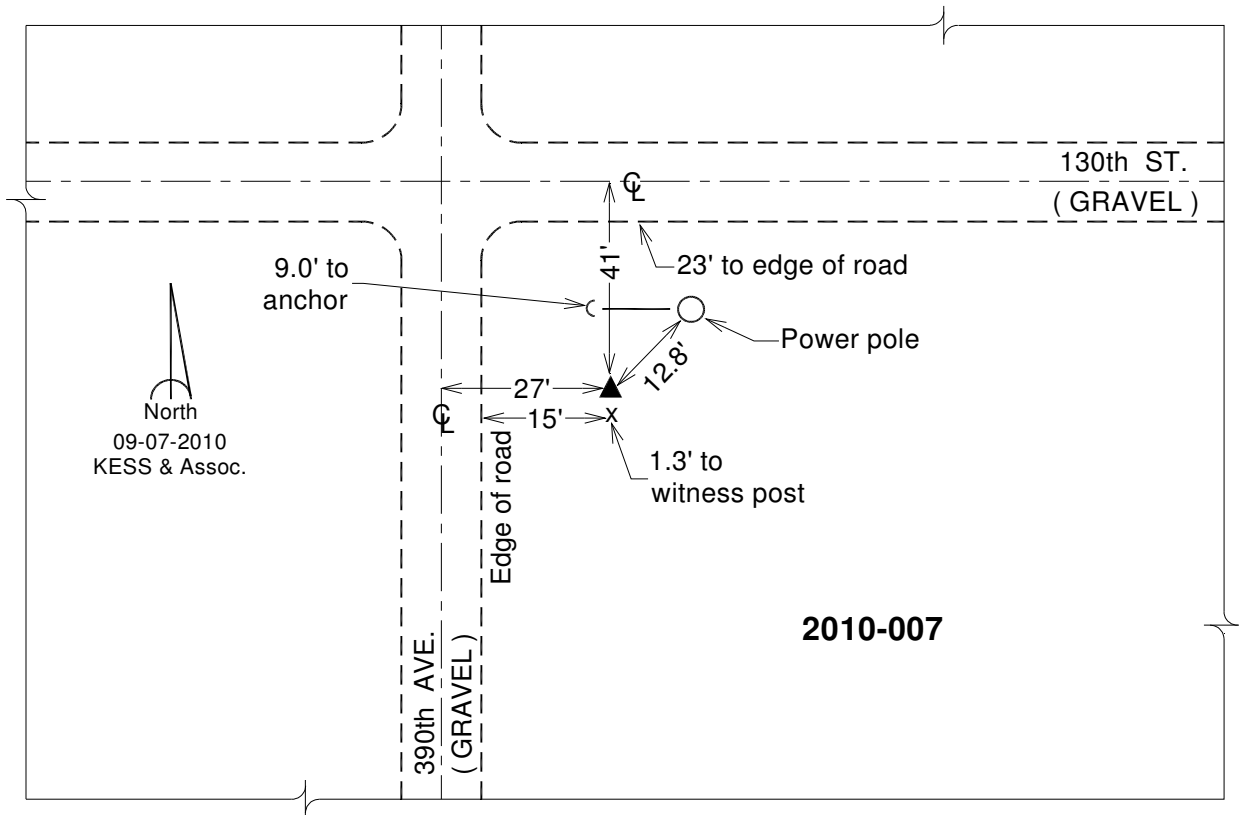
**Designation:** 2010-007 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°51'29.16012"** Longitude: **W95°26'29.83881"**  
NAVD 88 Ortho Height: **1105.940sft** Ellip. Ht: **1007.657sft** **Geoid12A**

Iowa South Zone (1402) Northing: **318626.160sft** Easting: **1103378.930sft**  
Mapping Angle: **-1°16'44"** Combination Scale Factor: **0.999918084**

IaRCS Zone 6 Northing: **6821686.716sft** Easting: **16580697.778sft**  
Mapping Angle: **0°11'27"** Combination Scale Factor: **0.999998358**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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US Survey Feet  
**2015**

Point Name: **8**

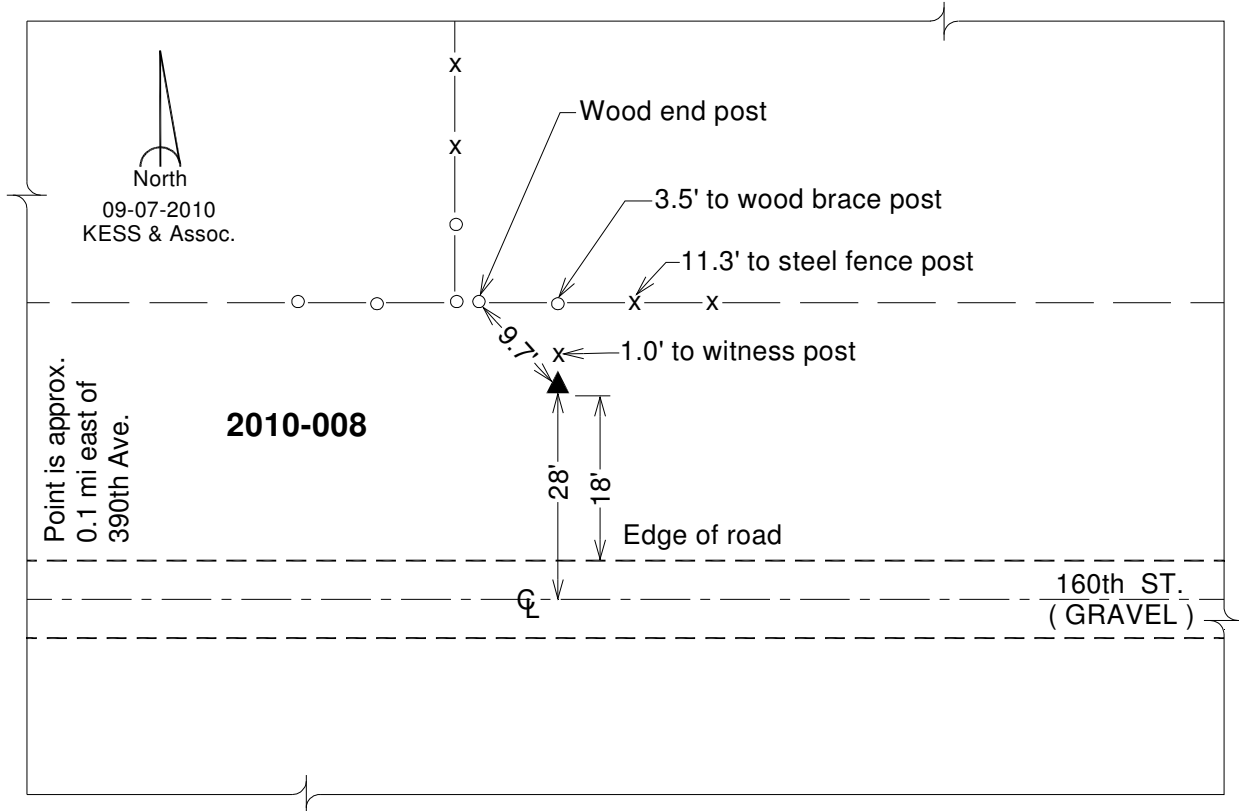
**Designation:** 2010-008 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°48'53.69051"** Longitude: **W95°26'25.33279"**  
NAVD 88 Ortho Height: **999.065sft** Ellip. Ht: **900.105sft** **Geoid12A**

Iowa South Zone (1402) Northing: **302888.500sft** Easting: **1103374.122sft**  
Mapping Angle: **-1°16'41"** Combination Scale Factor: **0.999927977**

IaRCS Zone 6 Northing: **6805952.884sft** Easting: **16581096.647sft**  
Mapping Angle: **0°11'29"** Combination Scale Factor: **1.000003564**

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US Survey Feet

**2015**

Point Name: **9**

**Designation:** 2010-009 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°48'53.79963"** Longitude: **W95°30'03.71259"**

NAVD 88 Ortho Height: **1088.791sft** Ellip. Ht: **990.431sft** **Geoid12A**

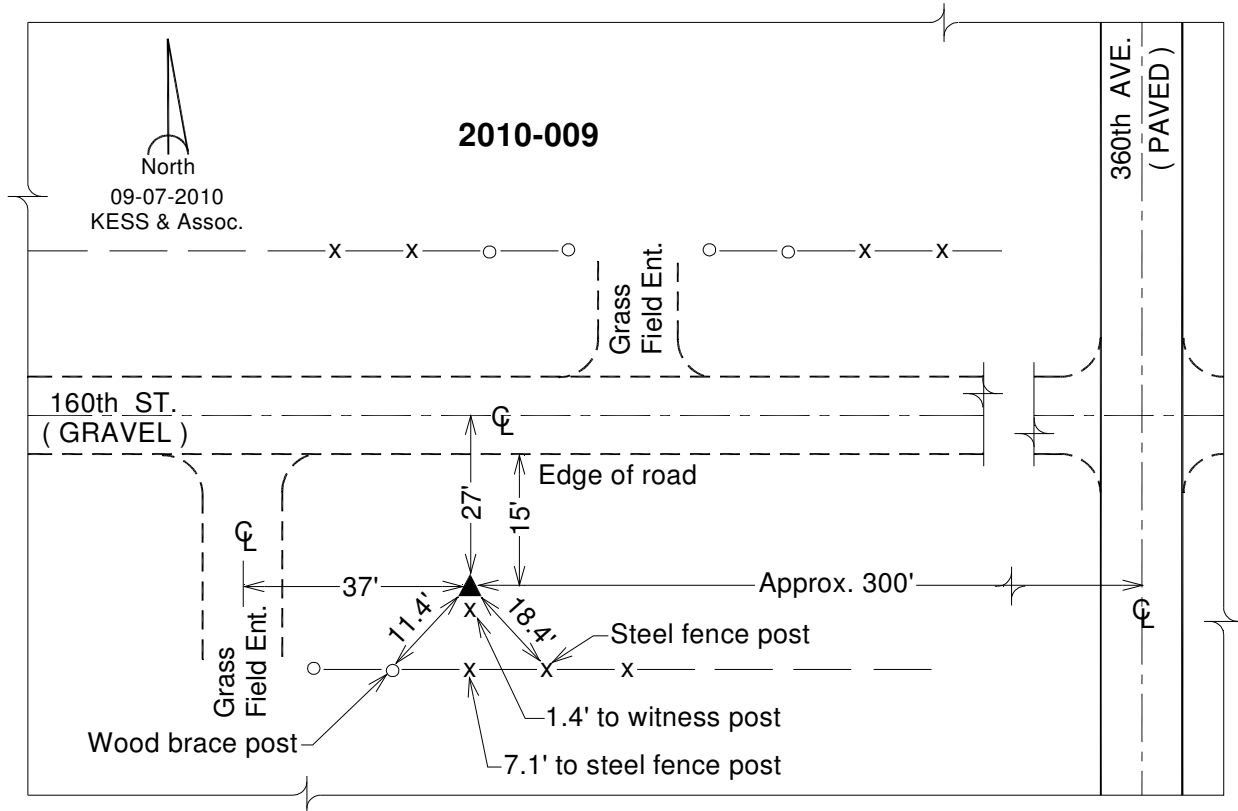
Iowa South Zone (1402) Northing: **303279.922sft** Easting: **1086587.937sft**

Mapping Angle: **-1°19'05"** Combination Scale Factor: **0.999923664**

IaRCS Zone 6 Northing: **6805913.618sft** Easting: **16564304.699sft**

Mapping Angle: **0°09'07"** Combination Scale Factor: **0.999996463**

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**2015**

Point Name: **10**

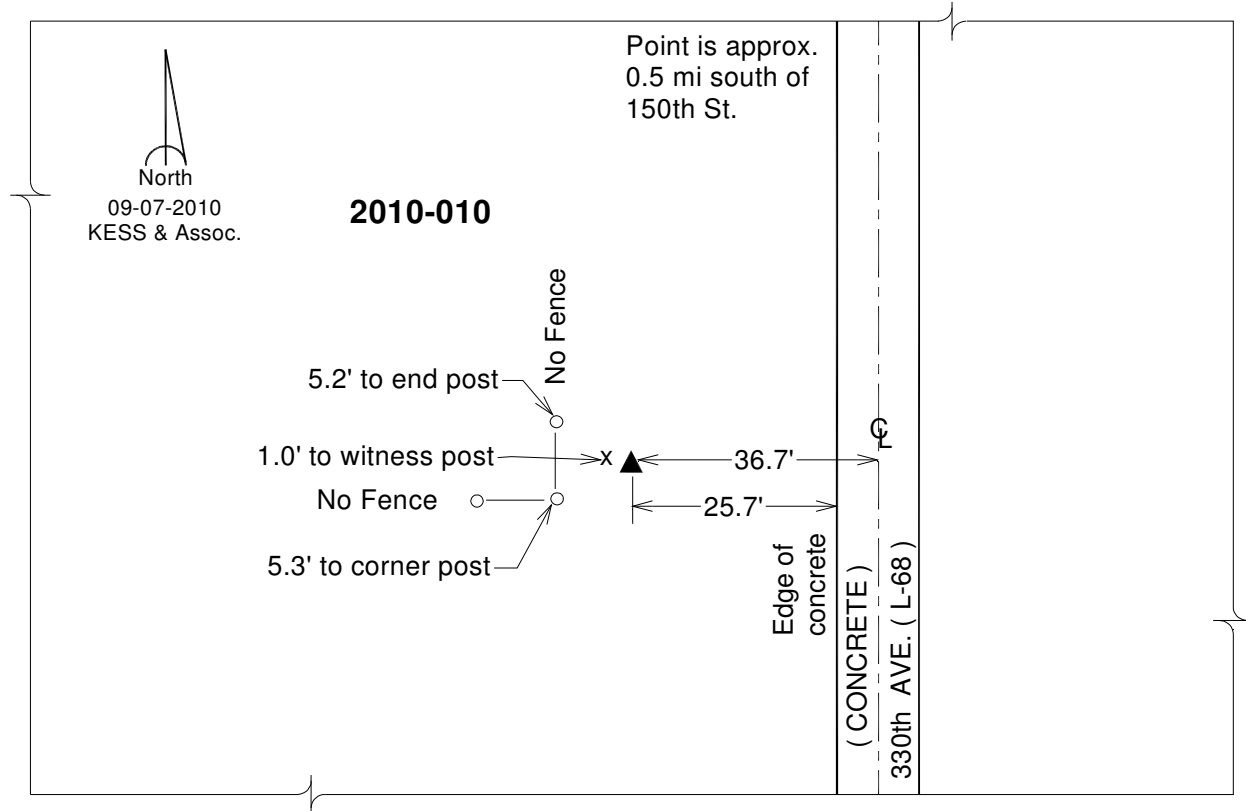
**Designation:** 2010-010 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°49'20.20409"** Longitude: **W95°33'23.49038"**  
NAVD 88 Ortho Height: **1054.841sft** Ellip. Ht: **957.188sft** **Geoid12A**

Iowa South Zone (1402) Northing: **306309.592sft** Easting: **1071294.813sft**  
Mapping Angle: **-1°21'17"** Combination Scale Factor: **0.999924402**

IaRCS Zone 6 Northing: **6808550.140sft** Easting: **16548937.774sft**  
Mapping Angle: **0°06'56"** Combination Scale Factor: **0.999996061**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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Iowa State Plane South Zone (1402)  
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US Survey Feet  
**2015**

Point Name: **11**

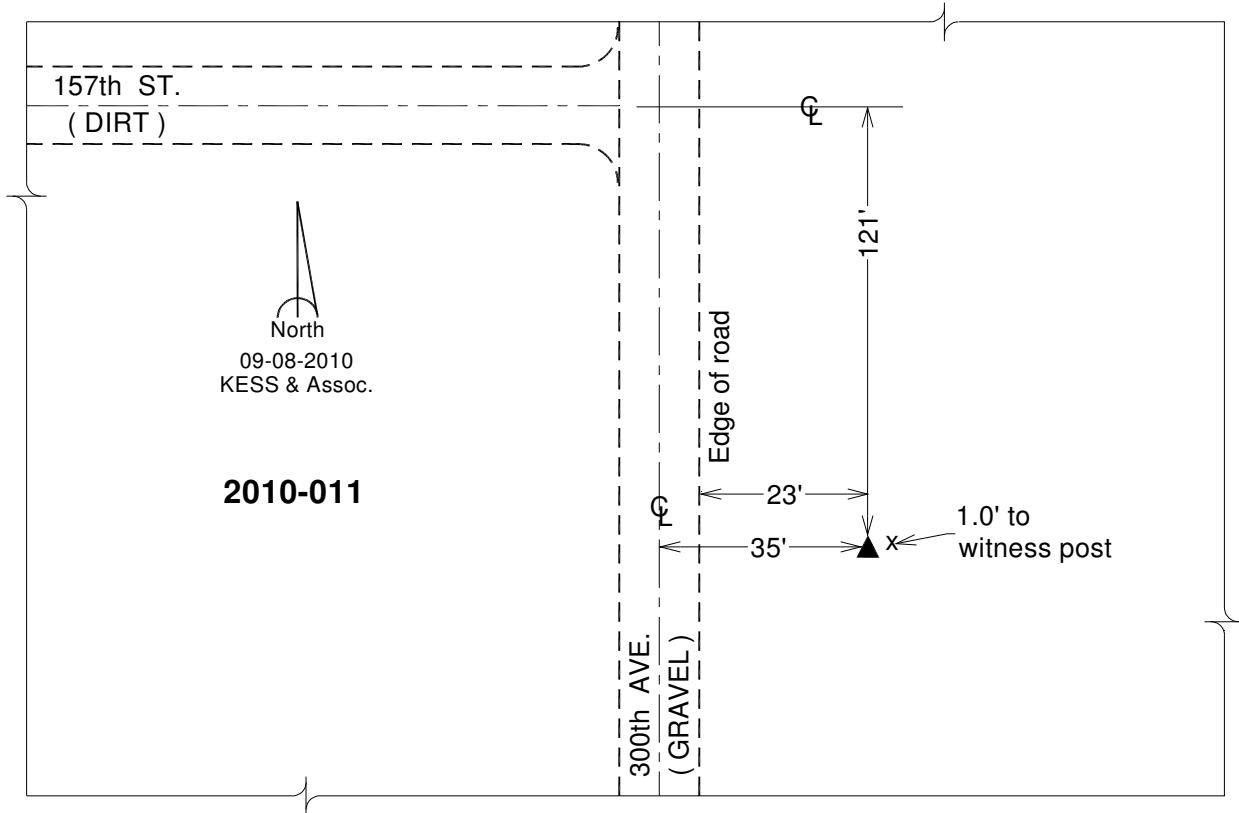
**Designation:** 2010-011 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°49'05.74148"** Longitude: **W95°36'49.29352"**  
NAVD 88 Ortho Height: **1004.930sft** Ellip. Ht: **907.922sft** **Geoid12A**

Iowa South Zone (1402) Northing: **305225.619sft** Easting: **1055441.802sft**  
Mapping Angle: **-1°23'32"** Combination Scale Factor: **0.999927215**

IaRCS Zone 6 Northing: **6807059.635sft** Easting: **16533116.680sft**  
Mapping Angle: **0°04'42"** Combination Scale Factor: **0.999996928**

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**2015**

Point Name: **12**

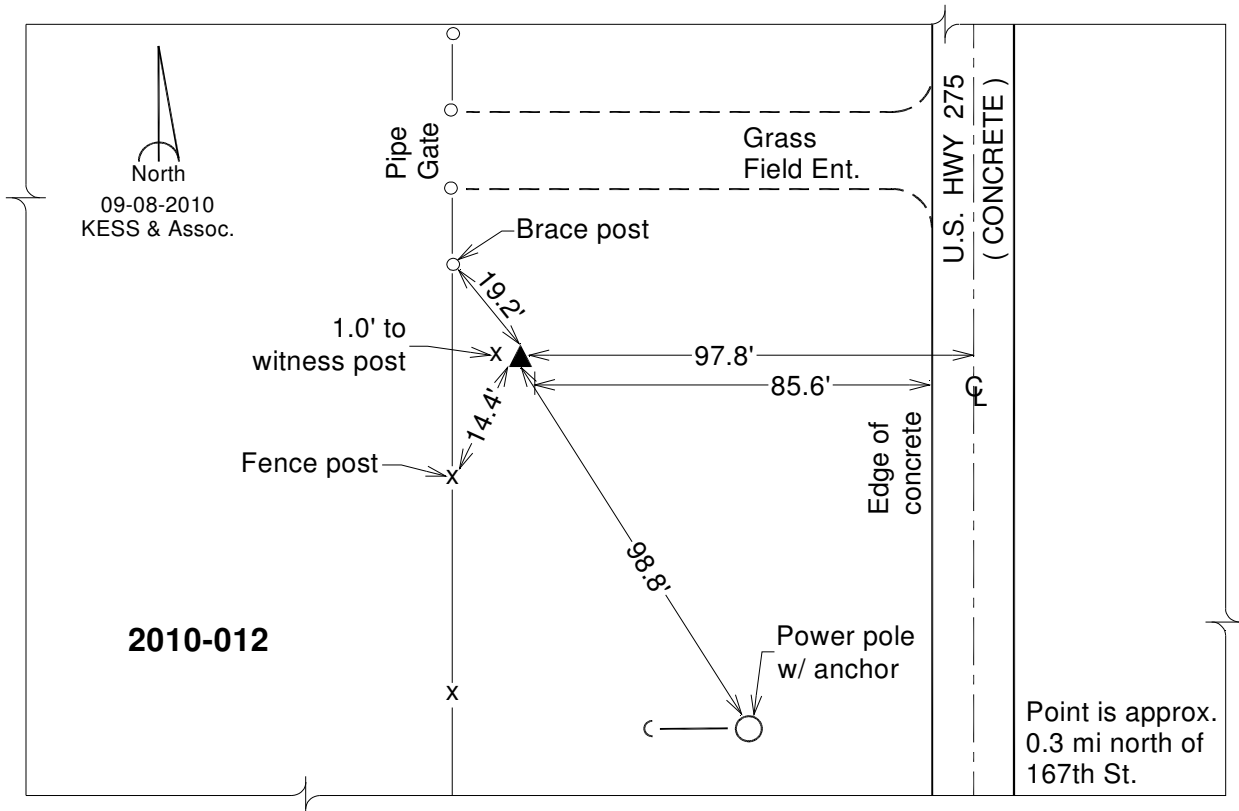
**Designation:** 2010-012 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°48'31.43082"** Longitude: **W95°40'16.24975"**  
NAVD 88 Ortho Height: **1157.862sft** Ellip. Ht: **1061.466sft** **Geoid12A**

Iowa South Zone (1402) Northing: **302146.267sft** Easting: **1039448.356sft**  
Mapping Angle: **-1°25'49"** Combination Scale Factor: **0.999921006**

IaRCS Zone 6 Northing: **6803570.591sft** Easting: **16517206.440sft**  
Mapping Angle: **0°02'26"** Combination Scale Factor: **0.999988686**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**2015**

Point Name: **13**

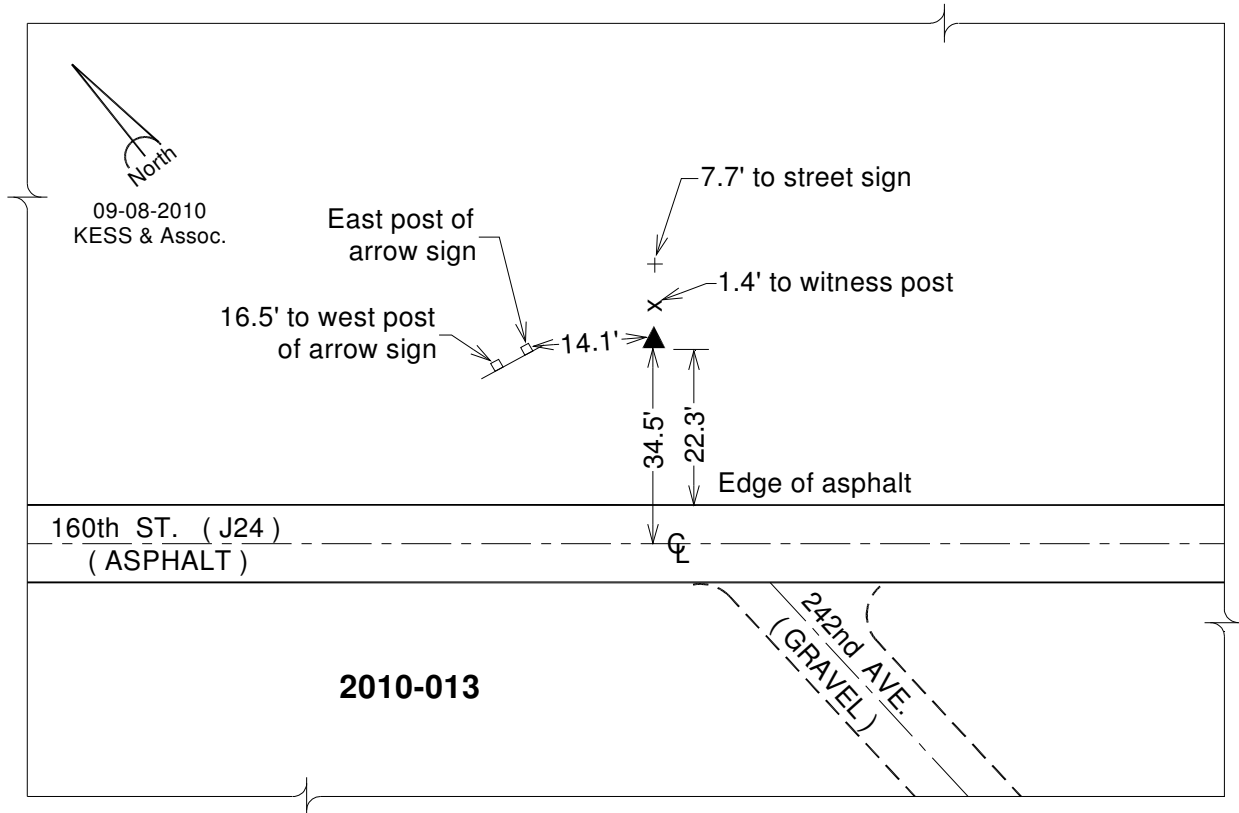
**Designation:** 2010-013 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°48'58.04923"** Longitude: **W95°43'39.49112"**  
NAVD 88 Ortho Height: **1035.466sft** Ellip. Ht: **939.974sft** **Geoid12A**

Iowa South Zone (1402) Northing: **305234.344sft** Easting: **1023894.084sft**  
Mapping Angle: **-1°28'02"** Combination Scale Factor: **0.999925934**

IaRCS Zone 6 Northing: **6806258.561sft** Easting: **16501576.962sft**  
Mapping Angle: **0°00'13"** Combination Scale Factor: **0.999994148**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**2015**

Point Name: **14**

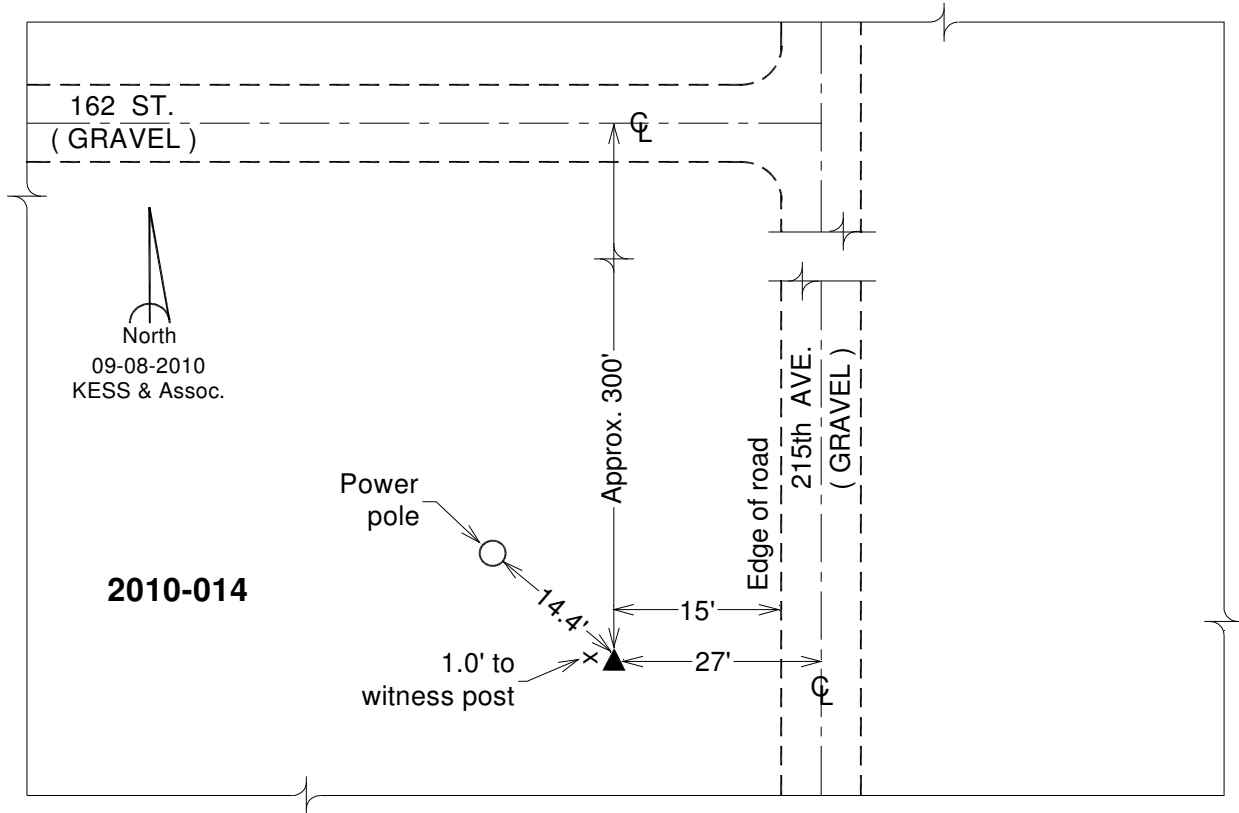
**Designation:** 2010-014 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°48'27.59429"** Longitude: **W95°46'31.41696"**  
NAVD 88 Ortho Height: **940.267sft** Ellip. Ht: **845.252sft** **Geoid12A**

Iowa South Zone (1402) Northing: **302495.423sft** Easting: **1010599.133sft**  
Mapping Angle: **-1°29'56"** Combination Scale Factor: **0.999931449**

laRCS Zone 6 Northing: **6803178.995sft** Easting: **16488355.818sft**  
Mapping Angle: **-0°01'39"** Combination Scale Factor: **0.999998820**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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Point Name: **15**

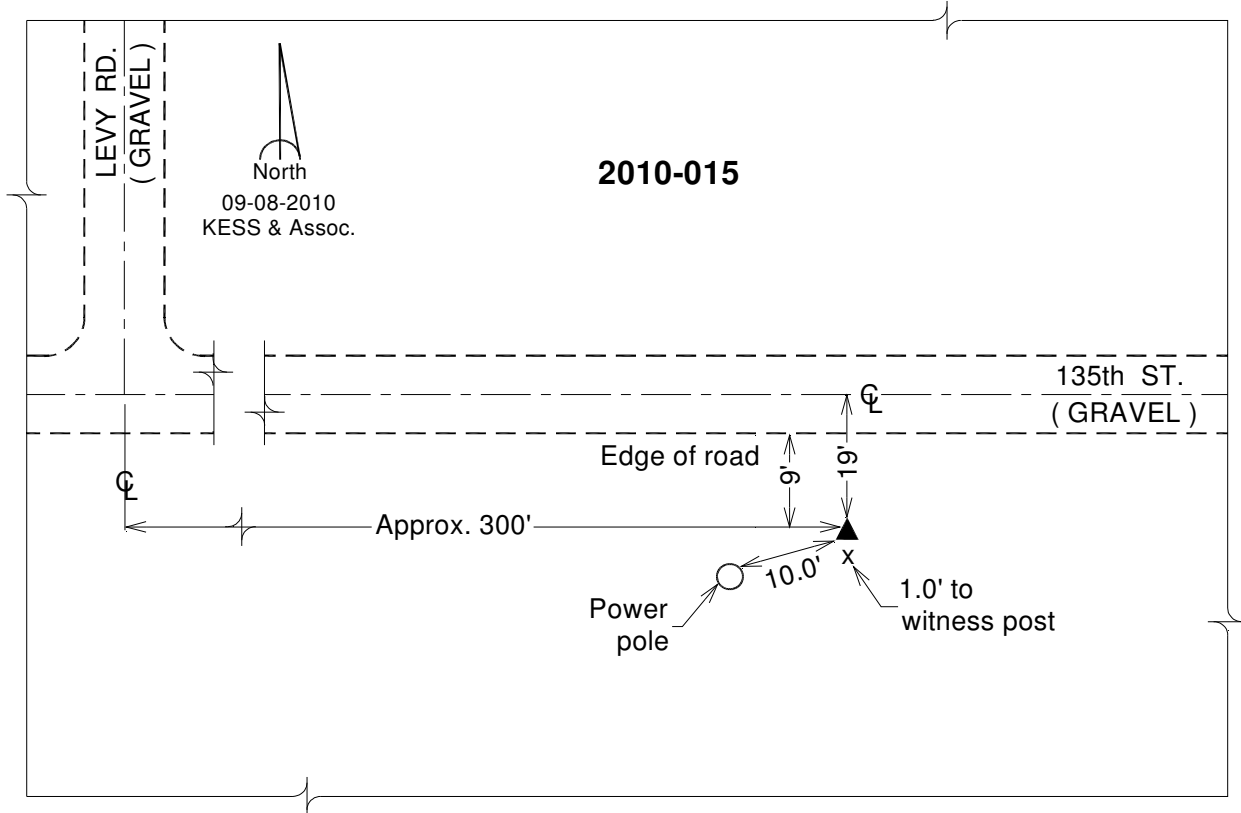
**Designation:** 2010-015 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°51'02.78676"** Longitude: **W95°49'19.21937"**  
NAVD 88 Ortho Height: **938.414sft** Ellip. Ht: **845.187sft** **Geoid12A**

Iowa South Zone (1402) Northing: **318536.580sft** Easting: **998119.476sft**  
Mapping Angle: **-1°31'46"** Combination Scale Factor: **0.999926604**

IaRCS Zone 6 Northing: **6818895.508sft** Easting: **16475467.464sft**  
Mapping Angle: **-0°03'29"** Combination Scale Factor: **0.999999356**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**2015**

Point Name: **16**

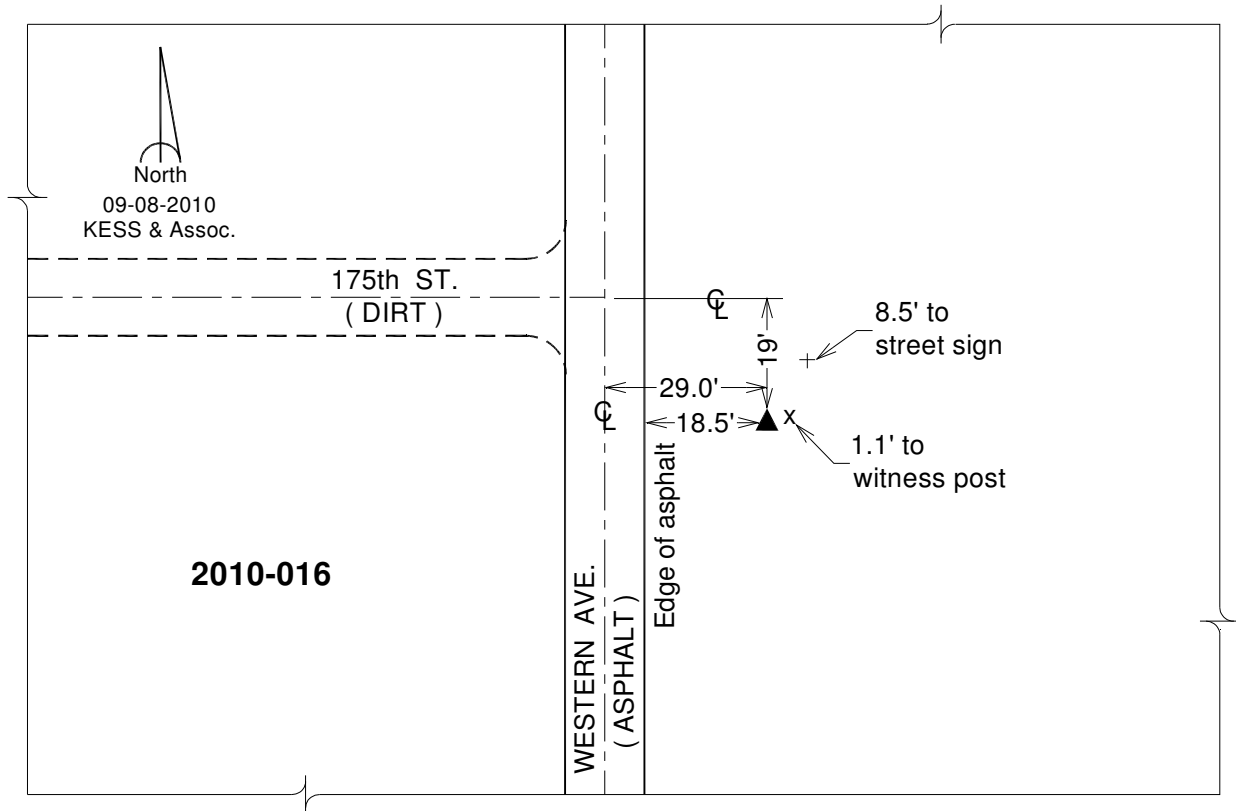
**Designation:** 2010-016 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°47'37.84990"** Longitude: **W95°48'46.26482"**  
NAVD 88 Ortho Height: **934.083sft** Ellip. Ht: **839.340sft** **Geoid12A**

Iowa South Zone (1402) Northing: **297736.429sft** Easting: **1000099.600sft**  
Mapping Angle: **-1°31'25"** Combination Scale Factor: **0.999933404**

IaRCS Zone 6 Northing: **6798151.625sft** Easting: **16477981.258sft**  
Mapping Angle: **-0°03'07"** Combination Scale Factor: **0.999999501**

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**2015**

Point Name: **17**

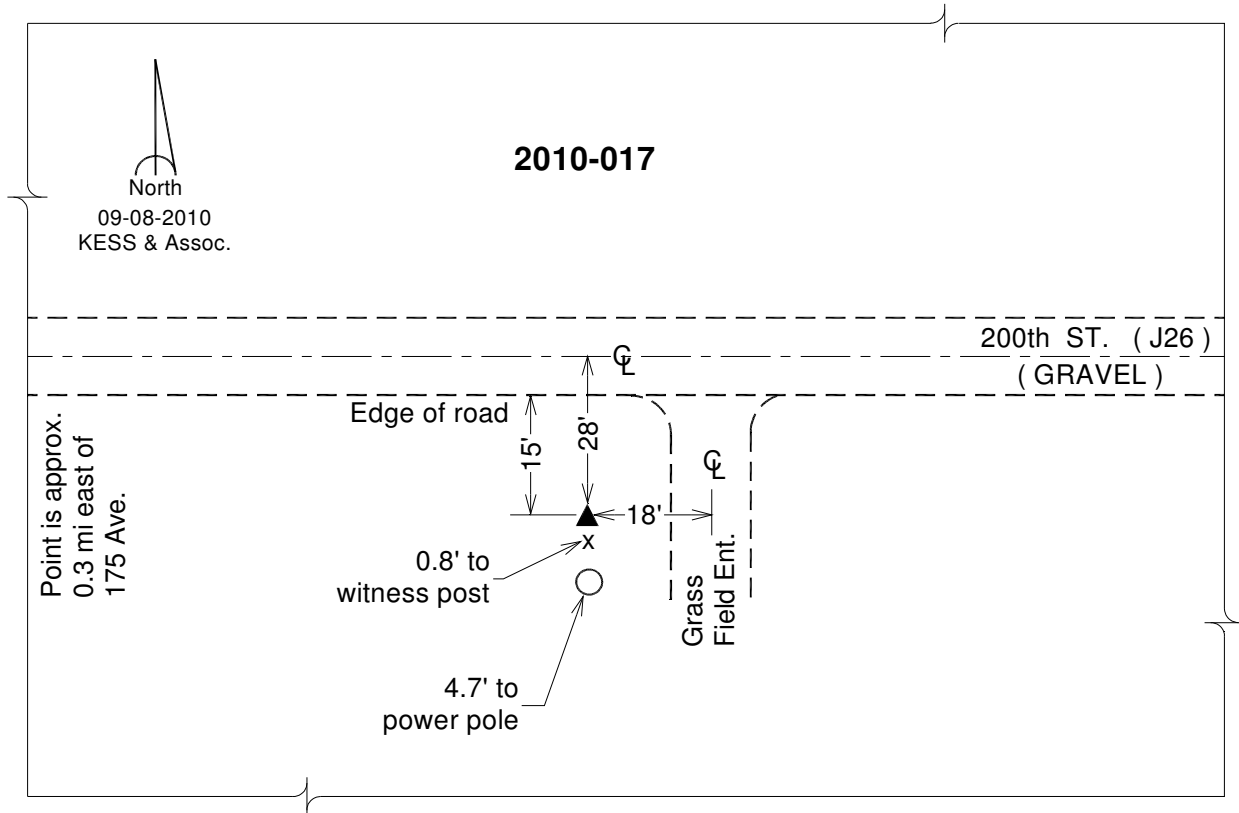
**Designation:** 2010-017 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°45'29.41665"** Longitude: **W95°50'49.80229"**  
NAVD 88 Ortho Height: **932.410sft** Ellip. Ht: **837.507sft** **Geoid12A**

Iowa South Zone (1402) Northing: **284997.977sft** Easting: **990250.763sft**  
Mapping Angle: **-1°32'46"** Combination Scale Factor: **0.999938075**

IaRCS Zone 6 Northing: **6785163.603sft** Easting: **16468462.210sft**  
Mapping Angle: **-0°04'28"** Combination Scale Factor: **1.000000171**

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Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **18**

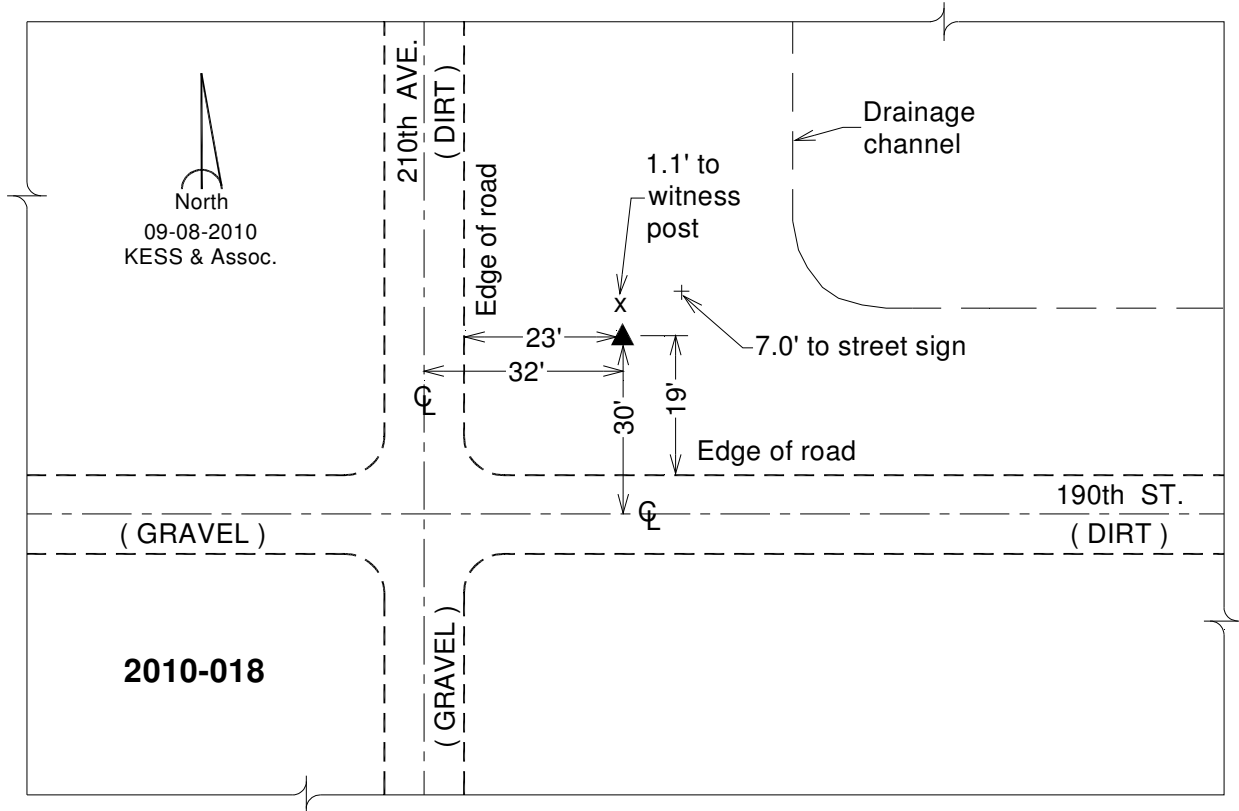
**Designation:** 2010-018 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°46'22.11716"** Longitude: **W95°47'03.22257"**  
NAVD 88 Ortho Height: **930.741sft** Ellip. Ht: **835.152sft** **Geoid12A**

Iowa South Zone (1402) Northing: **289865.382sft** Easting: **1007820.808sft**  
Mapping Angle: **-1°30'17"** Combination Scale Factor: **0.999936260**

IaRCS Zone 6 Northing: **6790480.950sft** Easting: **16485902.552sft**  
Mapping Angle: **-0°02'00"** Combination Scale Factor: **0.999999374**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**

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US Survey Feet

**2015**

Point Name: **19**

**Designation:** 2010-019 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°47'15.23481"** Longitude: **W95°43'20.95838"**

NAVD 88 Ortho Height: **1123.589sft** Ellip. Ht: **1027.459sft** **Geoid12A**

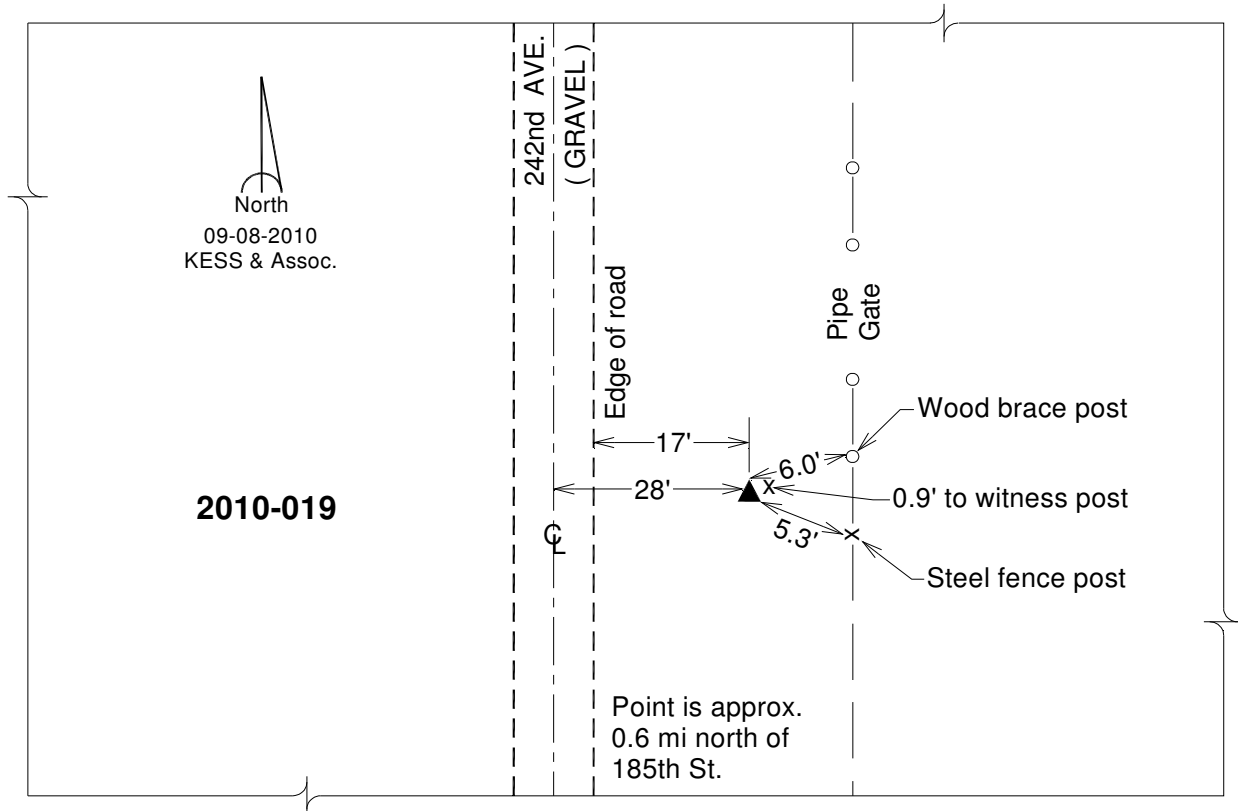
Iowa South Zone (1402) Northing: **294796.281sft** Easting: **1025052.706sft**

Mapping Angle: **-1°27'50"** Combination Scale Factor: **0.999925207**

IaRCS Zone 6 Northing: **6795852.990sft** Easting: **16503003.262sft**

Mapping Angle: **0°00'26"** Combination Scale Factor: **0.999989980**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
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Iowa Regional Coordinate System Zone 6 Council Bluffs  
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**2015**

Point Name: **20**

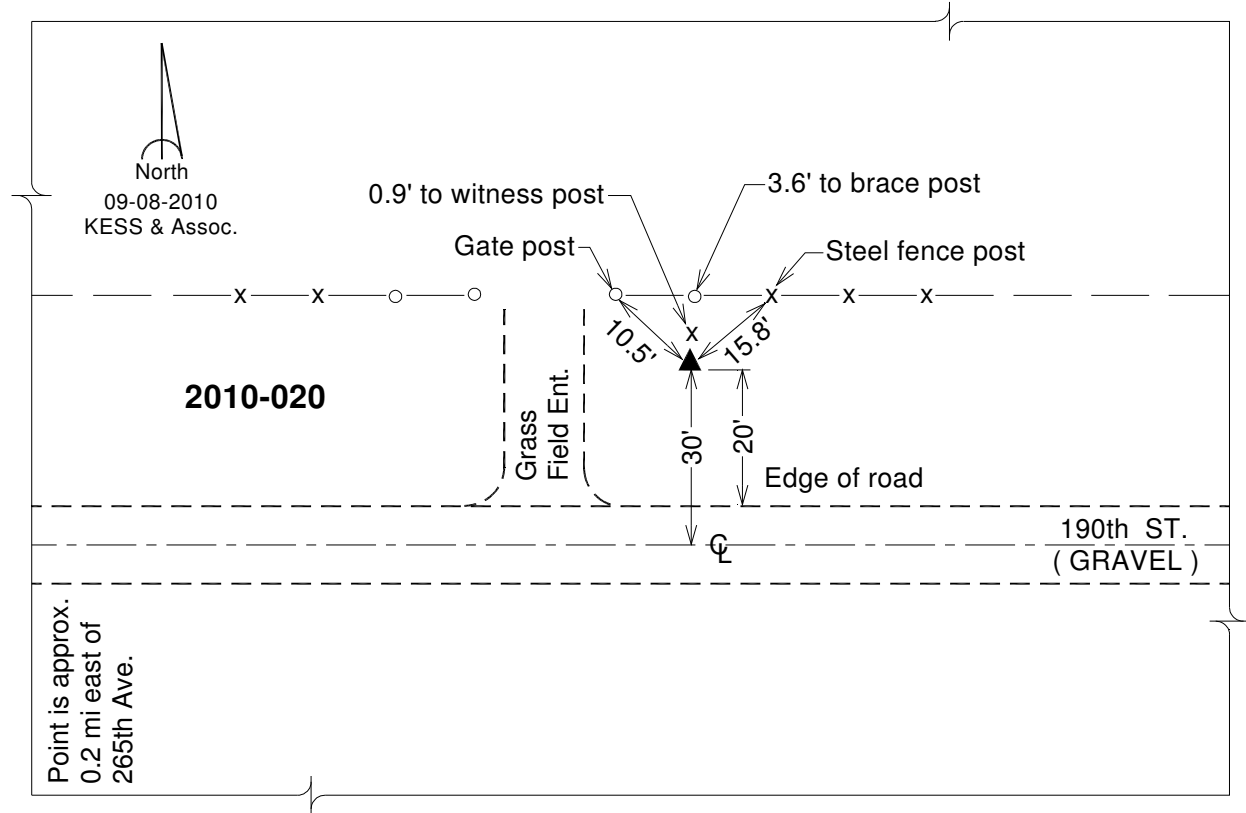
**Designation:** 2010-020 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°46'20.70536"** Longitude: **W95°40'32.59272"**  
NAVD 88 Ortho Height: **1194.974sft** Ellip. Ht: **1098.018sft** **Geoid12A**

Iowa South Zone (1402) Northing: **288952.148sft** Easting: **1037861.175sft**  
Mapping Angle: **-1°25'59"** Combination Scale Factor: **0.999923768**

IaRCS Zone 6 Northing: **6790339.215sft** Easting: **16515958.354sft**  
Mapping Angle: **0°02'15"** Combination Scale Factor: **0.999986894**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**2015**

Point Name: **21**

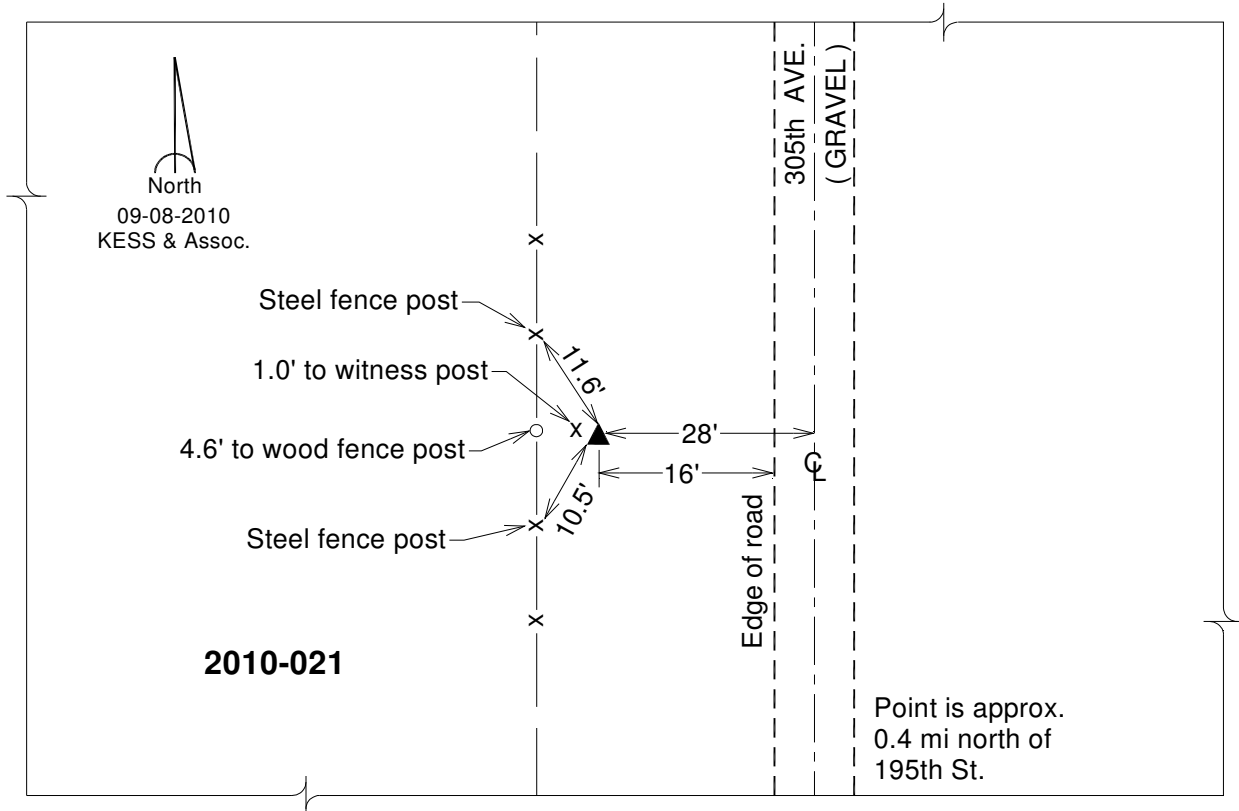
**Designation:** 2010-021 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°46'20.81085"** Longitude: **W95°36'48.11598"**  
NAVD 88 Ortho Height: **997.069sft** Ellip. Ht: **899.344sft** **Geoid12A**

Iowa South Zone (1402) Northing: **288537.060sft** Easting: **1055126.813sft**  
Mapping Angle: **-1°23'31"** Combination Scale Factor: **0.999933244**

IaRCS Zone 6 Northing: **6790367.371sft** Easting: **16533230.056sft**  
Mapping Angle: **0°04'42"** Combination Scale Factor: **0.999997345**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**

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**2015**

Point Name: **22**

**Designation:** 2010-022 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°46'19.18492"** Longitude: **W95°33'20.66664"**

NAVD 88 Ortho Height: **1031.243sft** Ellip. Ht: **932.875sft** **Geoid12A**

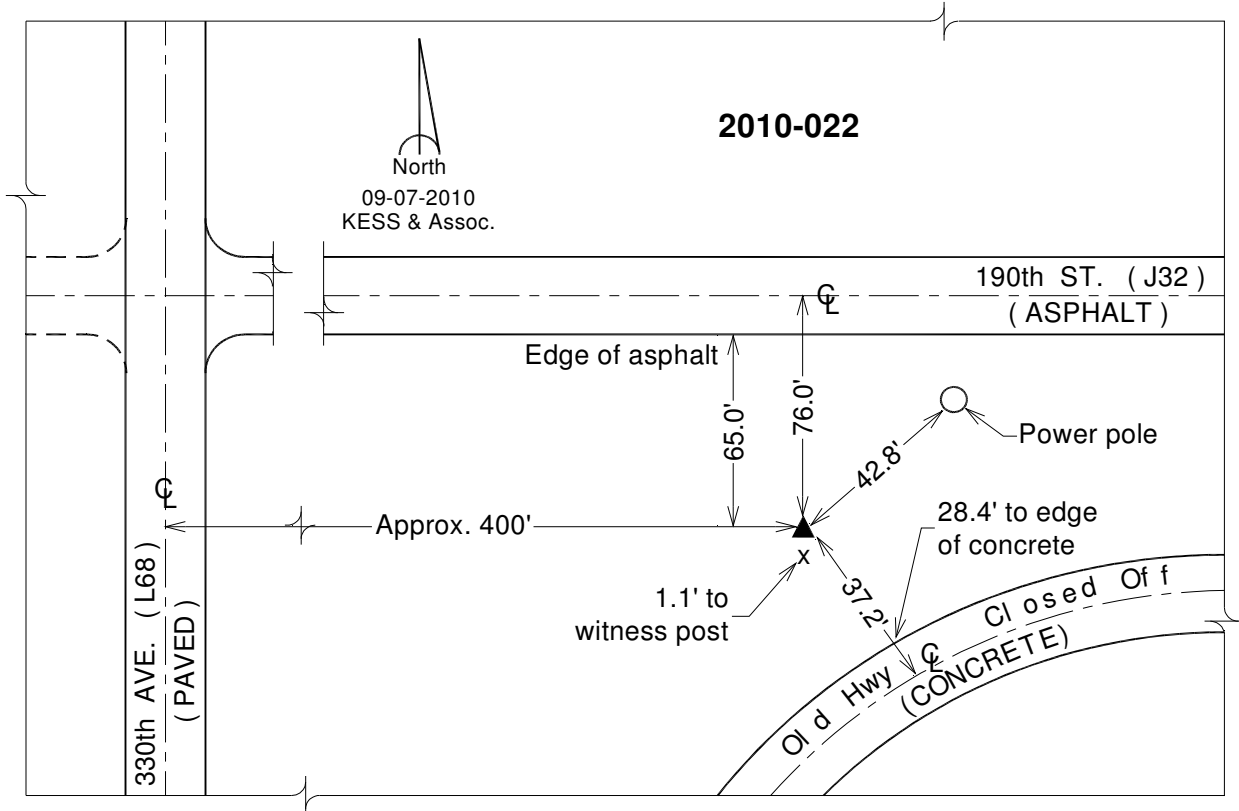
Iowa South Zone (1402) Northing: **287990.099sft** Easting: **1071078.921sft**

Mapping Angle: **-1°21'15"** Combination Scale Factor: **0.999931703**

IaRCS Zone 6 Northing: **6790229.881sft** Easting: **16549191.980sft**

Mapping Angle: **0°06'58"** Combination Scale Factor: **0.999997249**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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US Survey Feet  
**2015**

Point Name: **23**

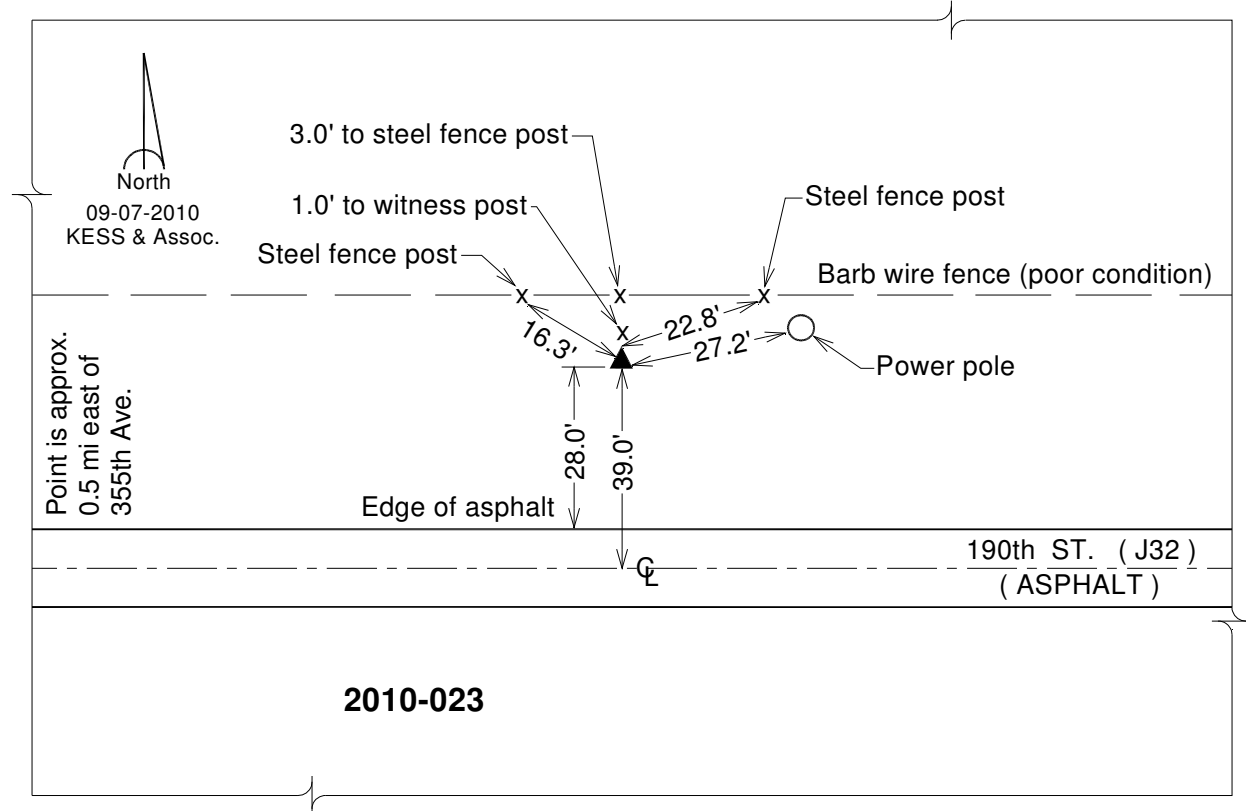
**Designation:** 2010-023 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°46'19.28766"** Longitude: **W95°30'02.97020"**  
NAVD 88 Ortho Height: **1083.102sft** Ellip. Ht: **984.211sft** **Geoid12A**

Iowa South Zone (1402) Northing: **287645.850sft** Easting: **1086285.346sft**  
Mapping Angle: **-1°19'05"** Combination Scale Factor: **0.999929250**

IaRCS Zone 6 Northing: **6790275.831sft** Easting: **16564403.244sft**  
Mapping Angle: **0°09'07"** Combination Scale Factor: **0.999996774**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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US Survey Feet  
**2015**

Point Name: **24**

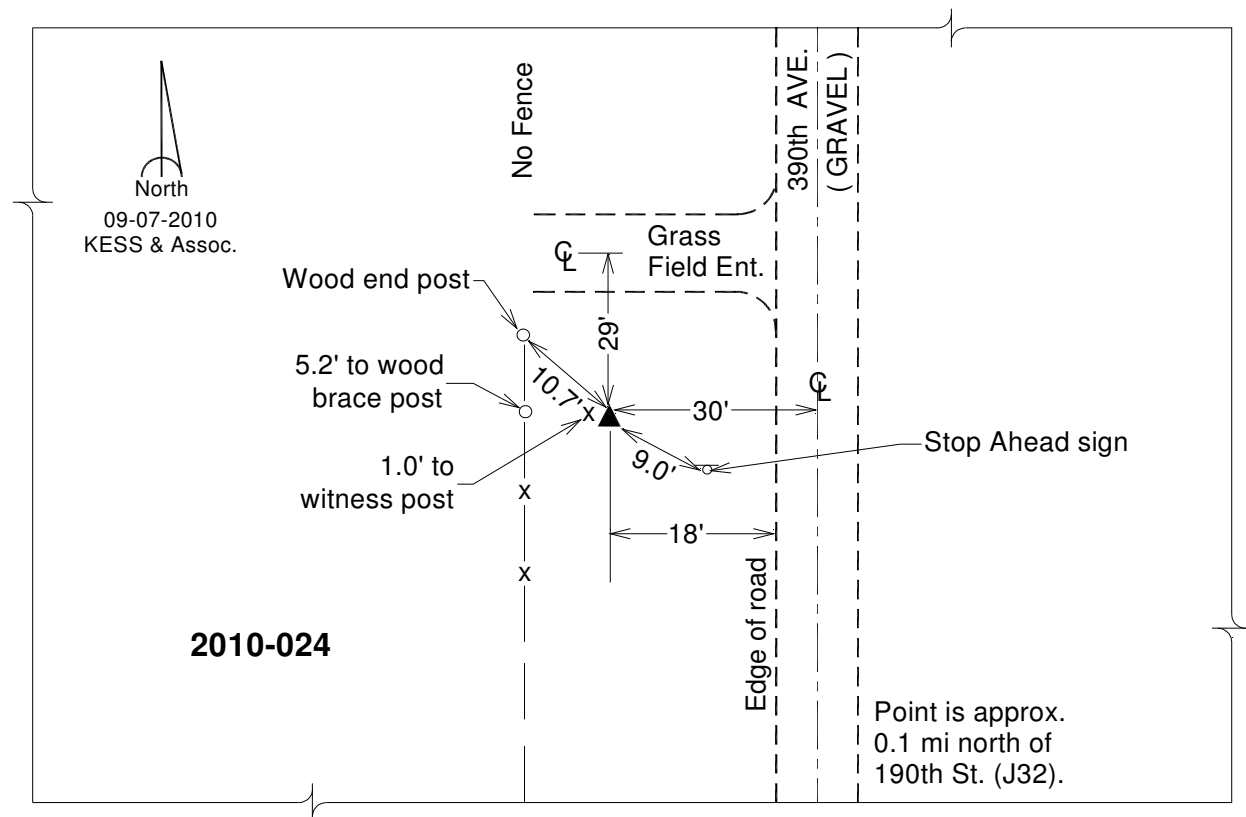
**Designation:** 2010-024 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°46'24.25376"** Longitude: **W95°26'29.81706"**  
NAVD 88 Ortho Height: **1046.021sft** Ellip. Ht: **946.618sft** **Geoid12A**

Iowa South Zone (1402) Northing: **287776.686sft** Easting: **1102691.872sft**  
Mapping Angle: **-1°16'44"** Combination Scale Factor: **0.999930865**

IaRCS Zone 6 Northing: **6790827.439sft** Easting: **16580802.148sft**  
Mapping Angle: **0°11'26"** Combination Scale Factor: **1.000001290**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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US Survey Feet  
**2015**

Point Name: **25**

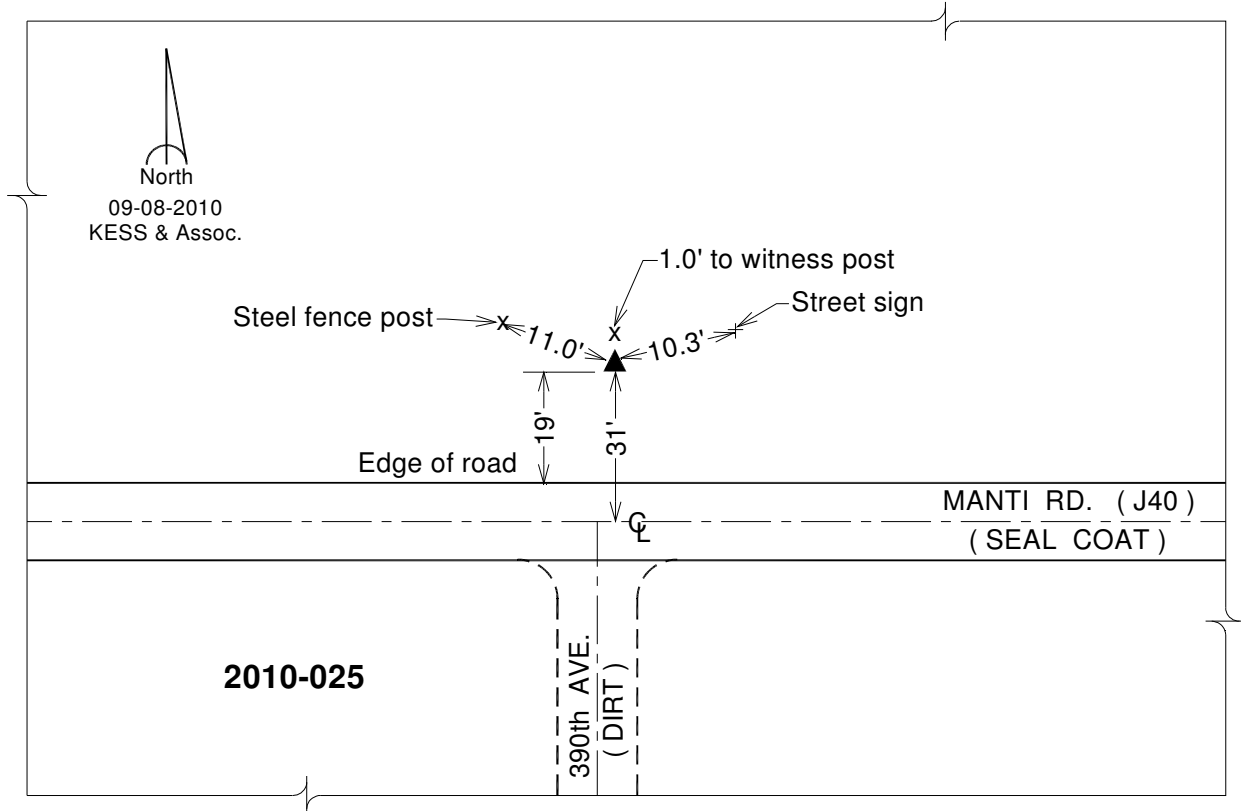
**Designation:** 2010-025 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°43'42.65798"** Longitude: **W95°26'36.75968"**  
NAVD 88 Ortho Height: **956.632sft** Ellip. Ht: **856.883sft** **Geoid12A**

Iowa South Zone (1402) Northing: **271438.937sft** Easting: **1101792.489sft**  
Mapping Angle: **-1°16'49"** Combination Scale Factor: **0.999941254**

laRCS Zone 6 Northing: **6774470.897sft** Easting: **16580321.971sft**  
Mapping Angle: **0°11'21"** Combination Scale Factor: **1.000005483**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**2015**

Point Name: **26**

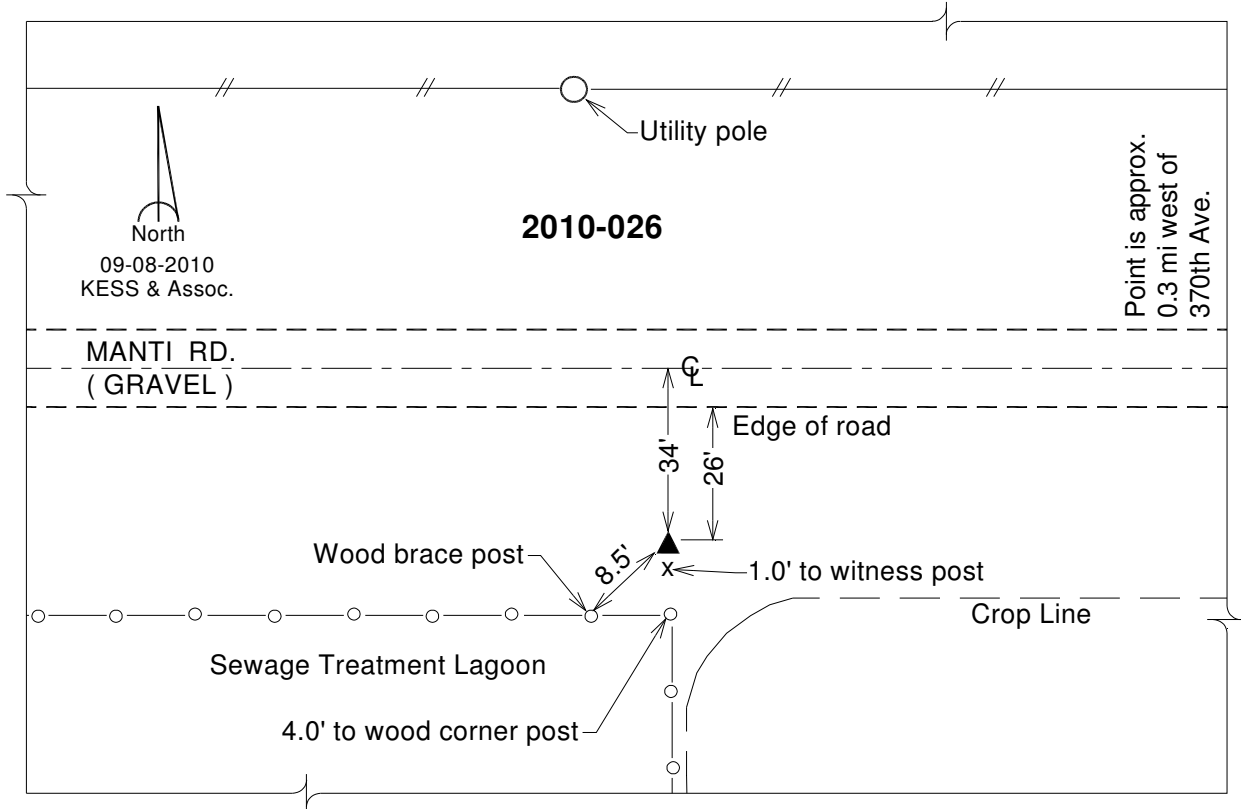
**Designation:** 2010-026 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°43'42.79624"** Longitude: **W95°29'28.16714"**  
 NAVD 88 Ortho Height: **937.363sft** Ellip. Ht: **837.996sft** **Geoid12A**

Iowa South Zone (1402) Northing: **271751.370sft** Easting: **1088599.807sft**  
 Mapping Angle: **-1°18'42"** Combination Scale Factor: **0.999942149**

IaRCS Zone 6 Northing: **6774444.915sft** Easting: **16567124.783sft**  
 Mapping Angle: **0°09'29"** Combination Scale Factor: **1.000004160**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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US Survey Feet  
**2015**

Point Name: **27**

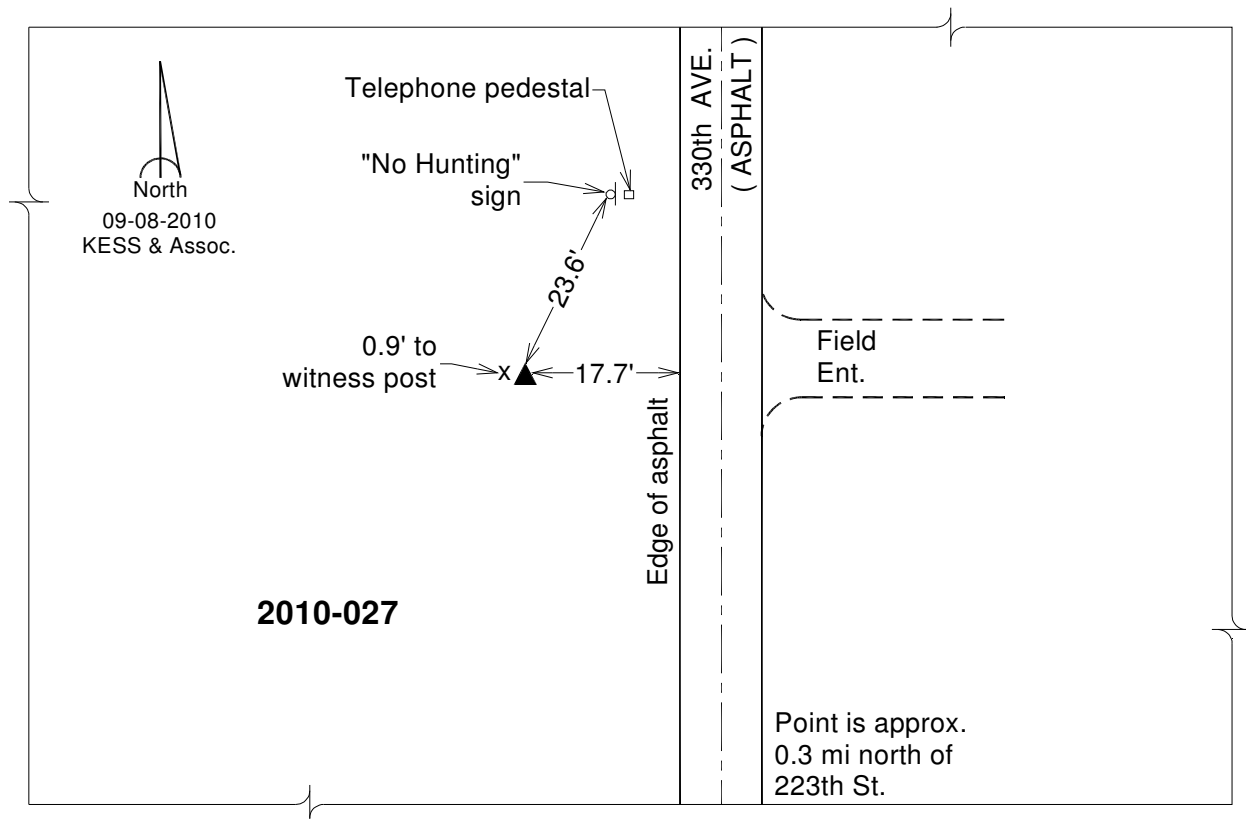
**Designation:** 2010-027 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°43'40.03314"** Longitude: **W95°33'22.66644"**  
NAVD 88 Ortho Height: **979.656sft** Ellip. Ht: **880.868sft** **Geoid12A**

Iowa South Zone (1402) Northing: **271891.814sft** Easting: **1070544.379sft**  
Mapping Angle: **-1°21'16"** Combination Scale Factor: **0.999940213**

laRCS Zone 6 Northing: **6774122.173sft** Easting: **16549070.597sft**  
Mapping Angle: **0°06'56"** Combination Scale Factor: **0.999999717**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **28**

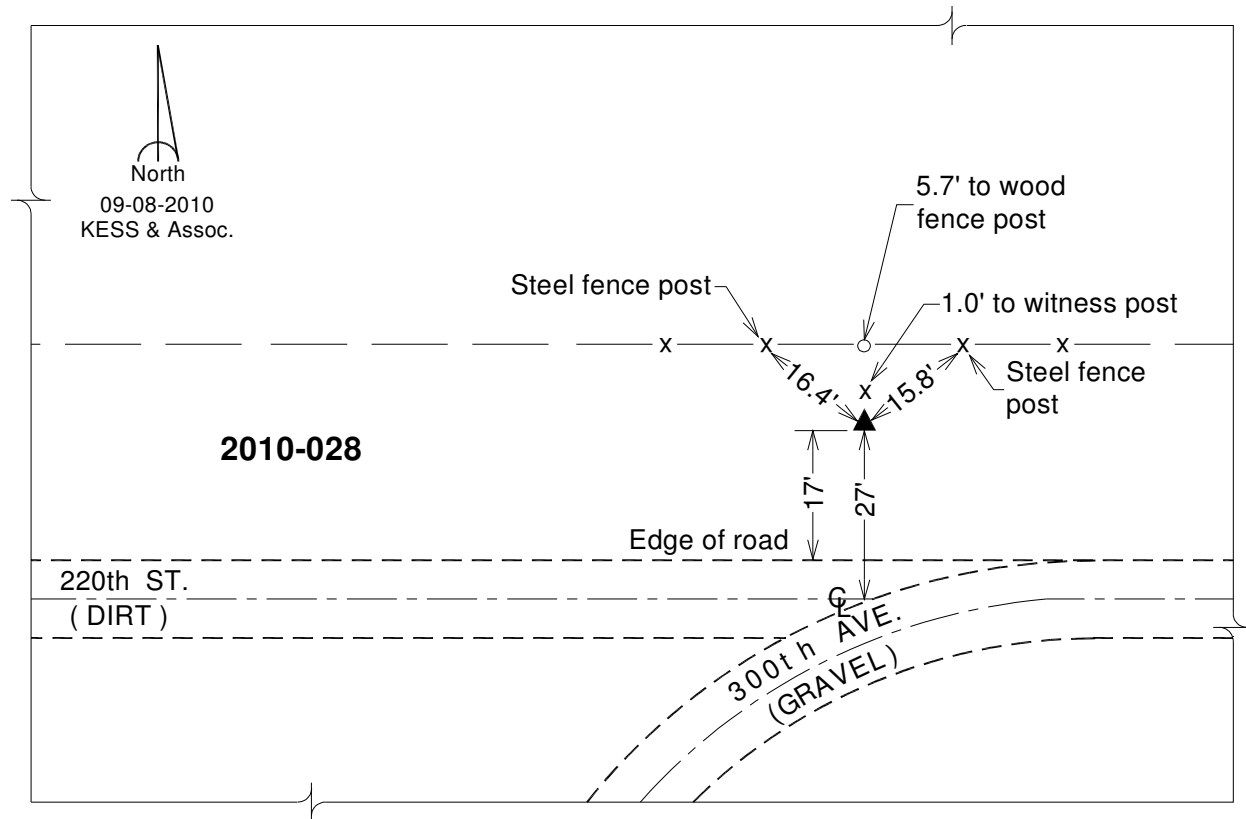
**Designation:** 2010-028 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°43'43.68124"** Longitude: **W95°36'57.79128"**  
NAVD 88 Ortho Height: **1022.958sft** Ellip. Ht: **924.780sft** **Geoid12A**

Iowa South Zone (1402) Northing: **272658.085sft** Easting: **1053995.834sft**  
Mapping Angle: **-1°23'38"** Combination Scale Factor: **0.999937973**

IaRCS Zone 6 Northing: **6774463.630sft** Easting: **16532506.867sft**  
Mapping Angle: **0°04'35"** Combination Scale Factor: **0.999996077**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**2015**

Point Name: **29**

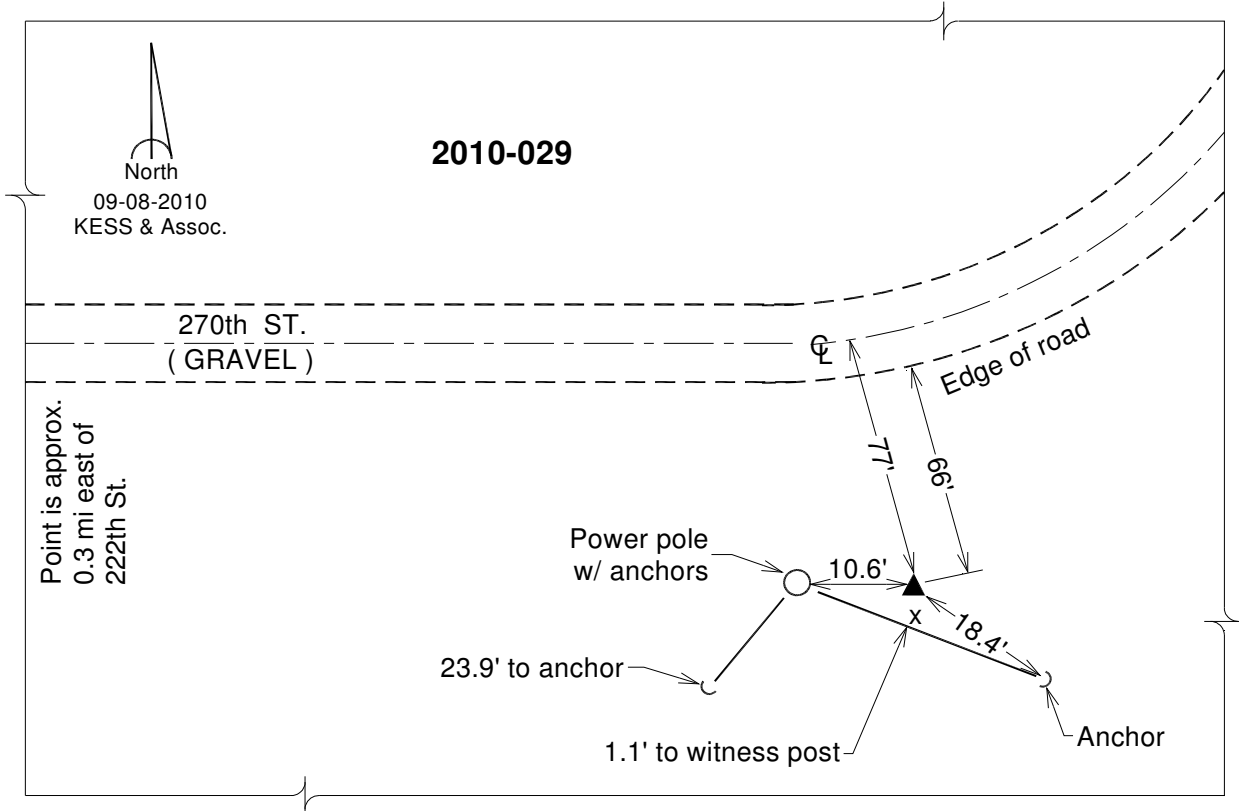
**Designation:** 2010-029 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°43'34.24767"** Longitude: **W95°40'19.66436"**  
NAVD 88 Ortho Height: **1174.307sft** Ellip. Ht: **1076.736sft** **Geoid12A**

Iowa South Zone (1402) Northing: **272086.751sft** Easting: **1038434.909sft**  
Mapping Angle: **-1°25'51"** Combination Scale Factor: **0.999931098**

IaRCS Zone 6 Northing: **6773493.089sft** Easting: **16516964.836sft**  
Mapping Angle: **0°02'24"** Combination Scale Factor: **0.999987948**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**2015**

Point Name: **30**

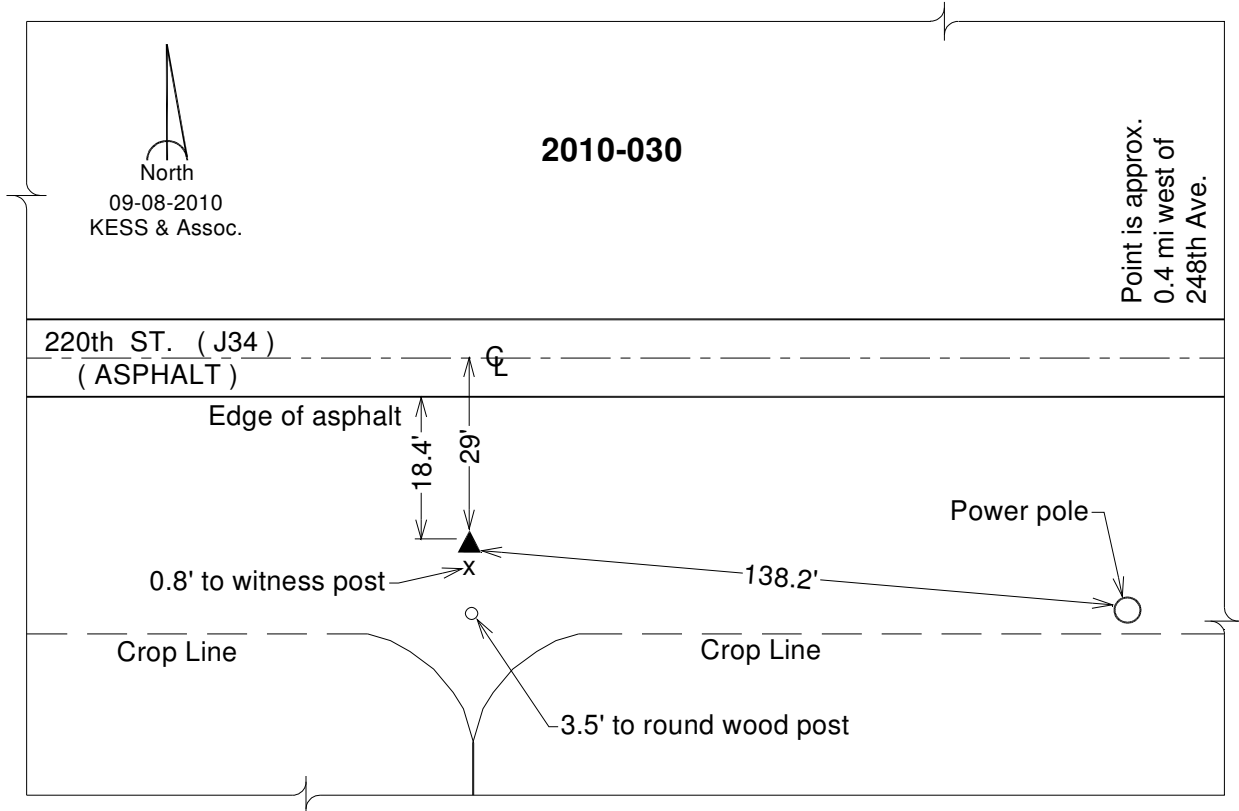
**Designation:** 2010-030 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°43'43.82332"** Longitude: **W95°43'15.20474"**  
NAVD 88 Ortho Height: **924.859sft** Ellip. Ht: **827.825sft** **Geoid12A**

Iowa South Zone (1402) Northing: **273396.753sft** Easting: **1024948.916sft**  
Mapping Angle: **-1°27'46"** Combination Scale Factor: **0.999942594**

IaRCS Zone 6 Northing: **6774456.547sft** Easting: **16503448.892sft**  
Mapping Angle: **0°00'29"** Combination Scale Factor: **0.999999510**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**2015**

Point Name: **31**

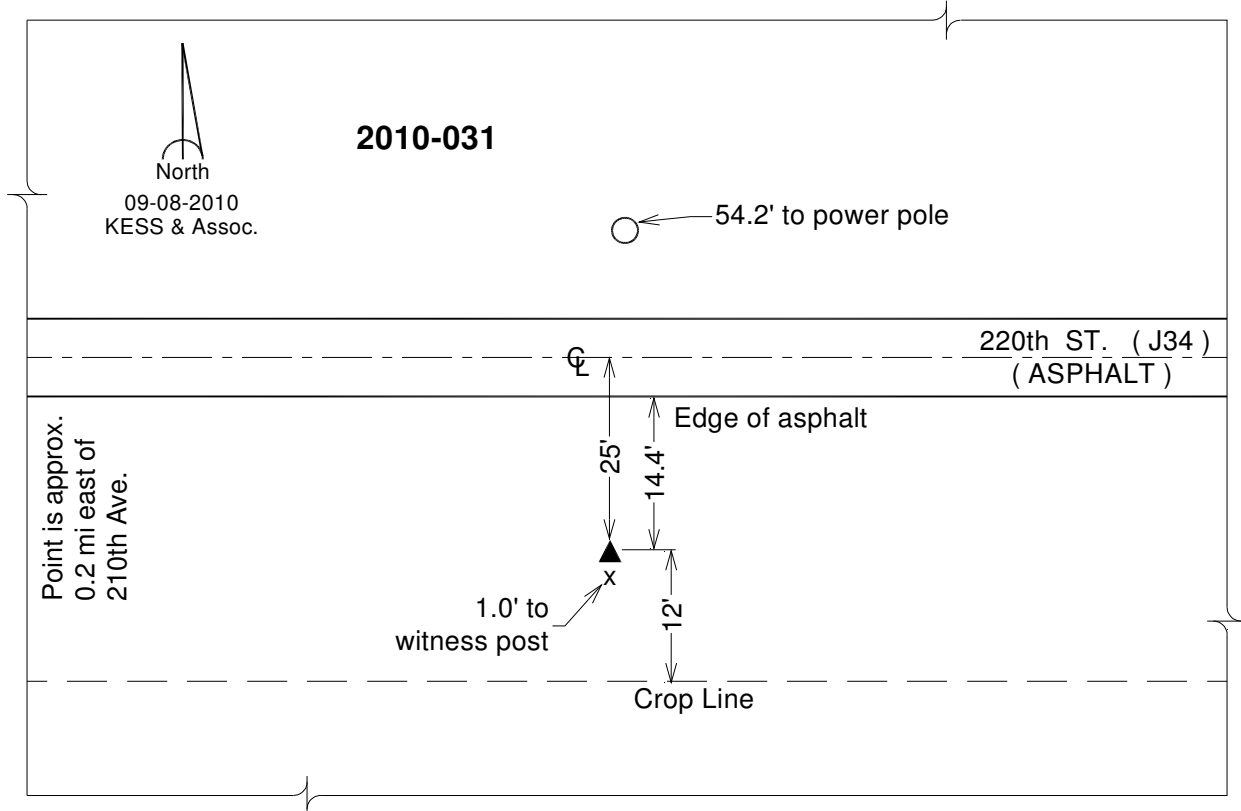
**Designation:** 2010-031 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°43'44.84220"** Longitude: **W95°46'57.16944"**  
NAVD 88 Ortho Height: **927.429sft** Ellip. Ht: **831.160sft** **Geoid12A**

Iowa South Zone (1402) Northing: **273942.152sft** Easting: **1007868.735sft**  
Mapping Angle: **-1°30'13"** Combination Scale Factor: **0.999942394**

IaRCS Zone 6 Northing: **6774563.243sft** Easting: **16486359.365sft**  
Mapping Angle: **-0°01'56"** Combination Scale Factor: **0.999999550**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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Point Name: **32**

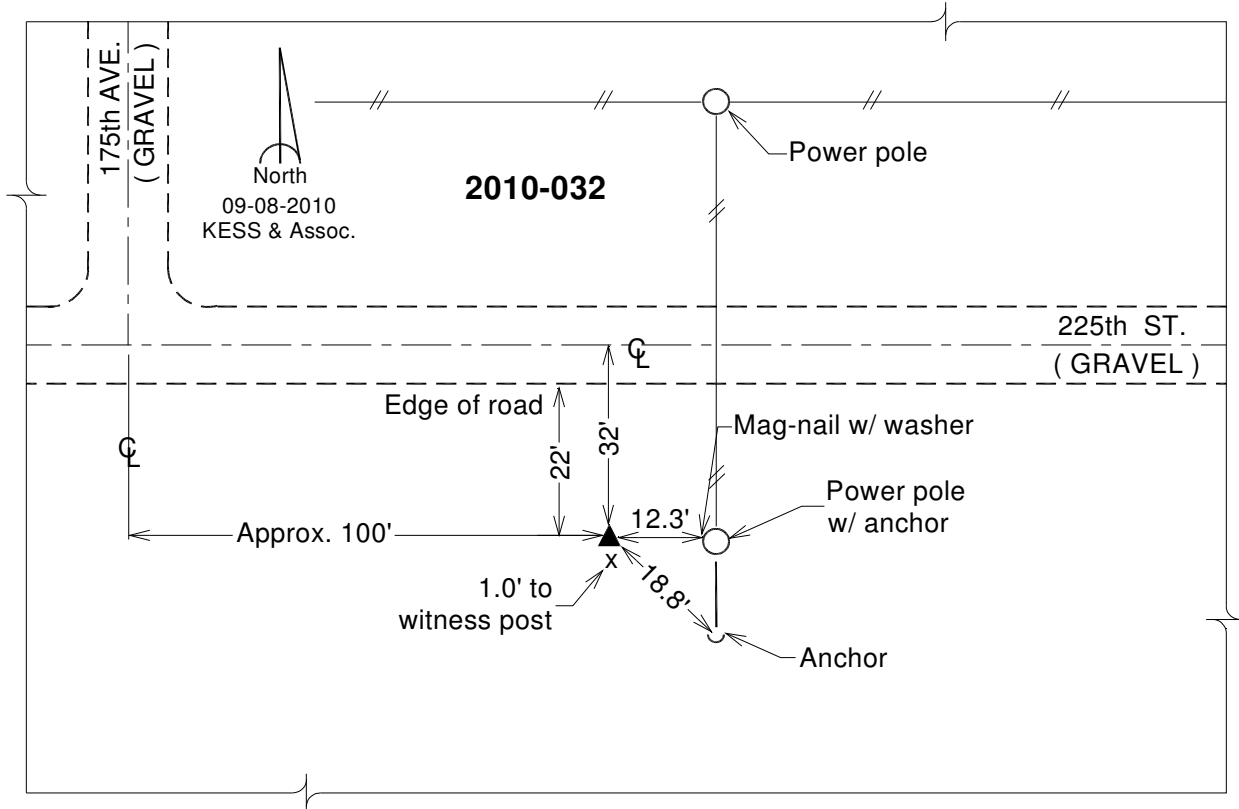
**Designation:** 2010-032 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°43'27.99496"** Longitude: **W95°51'08.43383"**  
NAVD 88 Ortho Height: **926.704sft** Ellip. Ht: **831.357sft** **Geoid12A**

Iowa South Zone (1402) Northing: **272753.127sft** Easting: **988485.244sft**  
Mapping Angle: **-1°32'58"** Combination Scale Factor: **0.999943056**

IaRCS Zone 6 Northing: **6772876.709sft** Easting: **16467011.695sft**  
Mapping Angle: **-0°04'40"** Combination Scale Factor: **1.000000571**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**2015**

Point Name: **33**

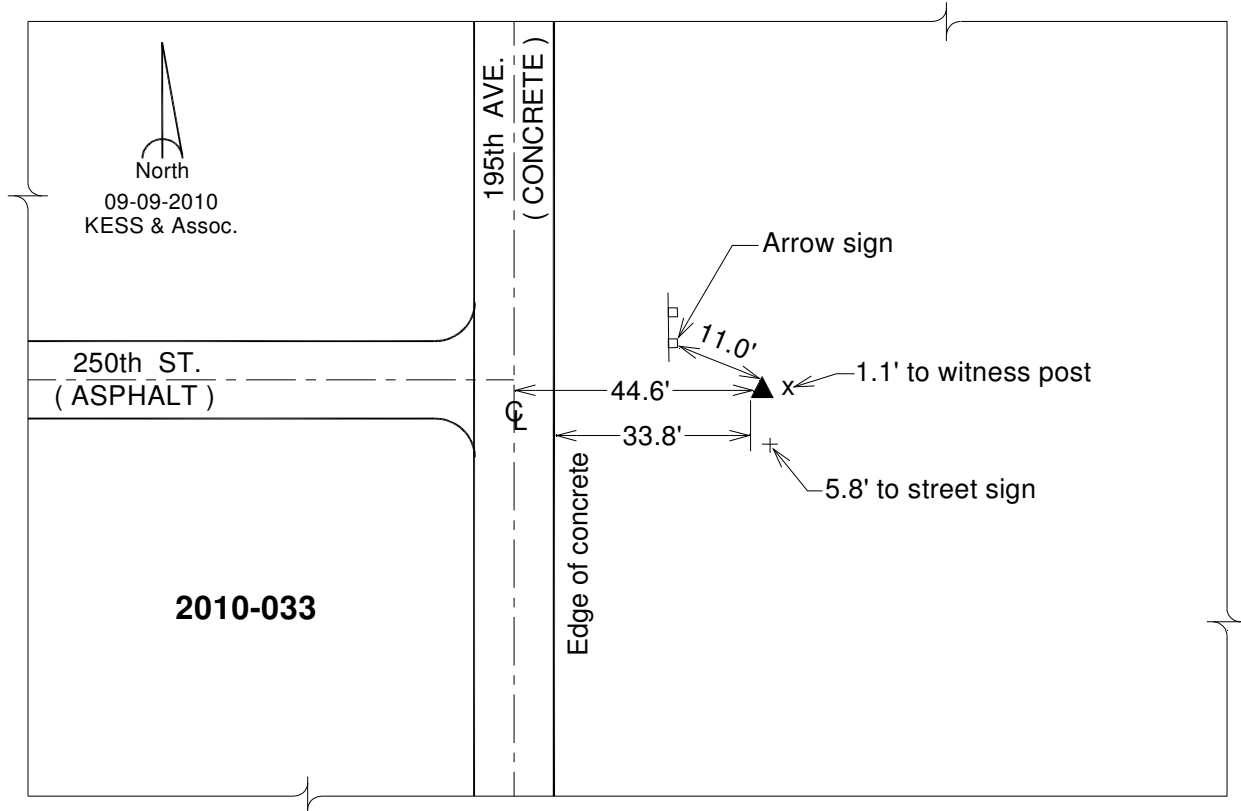
**Designation:** 2010-033 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°41'22.18684"** Longitude: **W95°48'37.75615"**  
NAVD 88 Ortho Height: **923.020sft** Ellip. Ht: **826.698sft** **Geoid12A**

Iowa South Zone (1402) Northing: **259714.737sft** Easting: **999744.063sft**  
Mapping Angle: **-1°31'19"** Combination Scale Factor: **0.999948496**

IaRCS Zone 6 Northing: **6760131.094sft** Easting: **16478602.309sft**  
Mapping Angle: **-0°03'01"** Combination Scale Factor: **1.000000073**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**2015**

Point Name: **34**

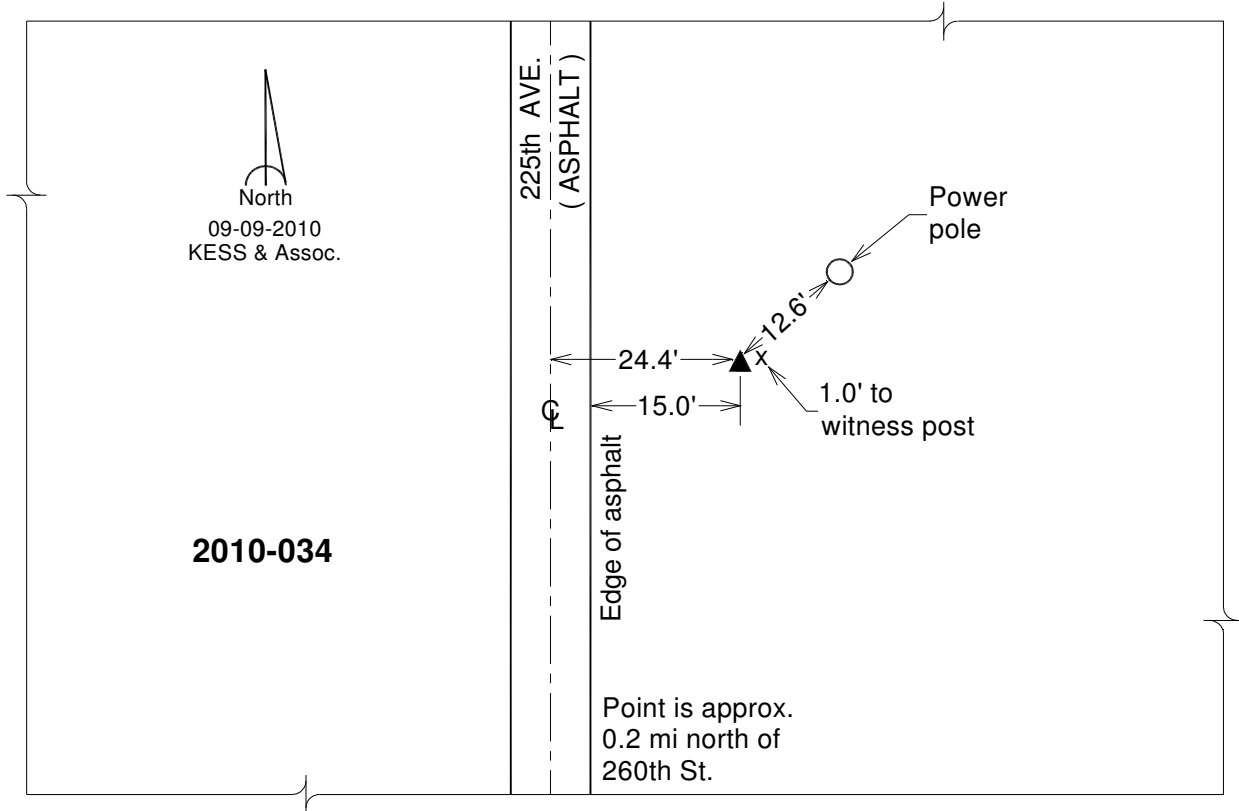
**Designation:** 2010-034 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°40'39.10199"** Longitude: **W95°45'48.62368"**  
 NAVD 88 Ortho Height: **920.302sft** Ellip. Ht: **823.291sft** **Geoid12A**

Iowa South Zone (1402) Northing: **255013.441sft** Easting: **1012655.017sft**  
 Mapping Angle: **-1°29'28"** Combination Scale Factor: **0.999950530**

IaRCS Zone 6 Northing: **6755762.670sft** Easting: **16491630.387sft**  
 Mapping Angle: **-0°01'11"** Combination Scale Factor: **0.999999792**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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Point Name: **35**

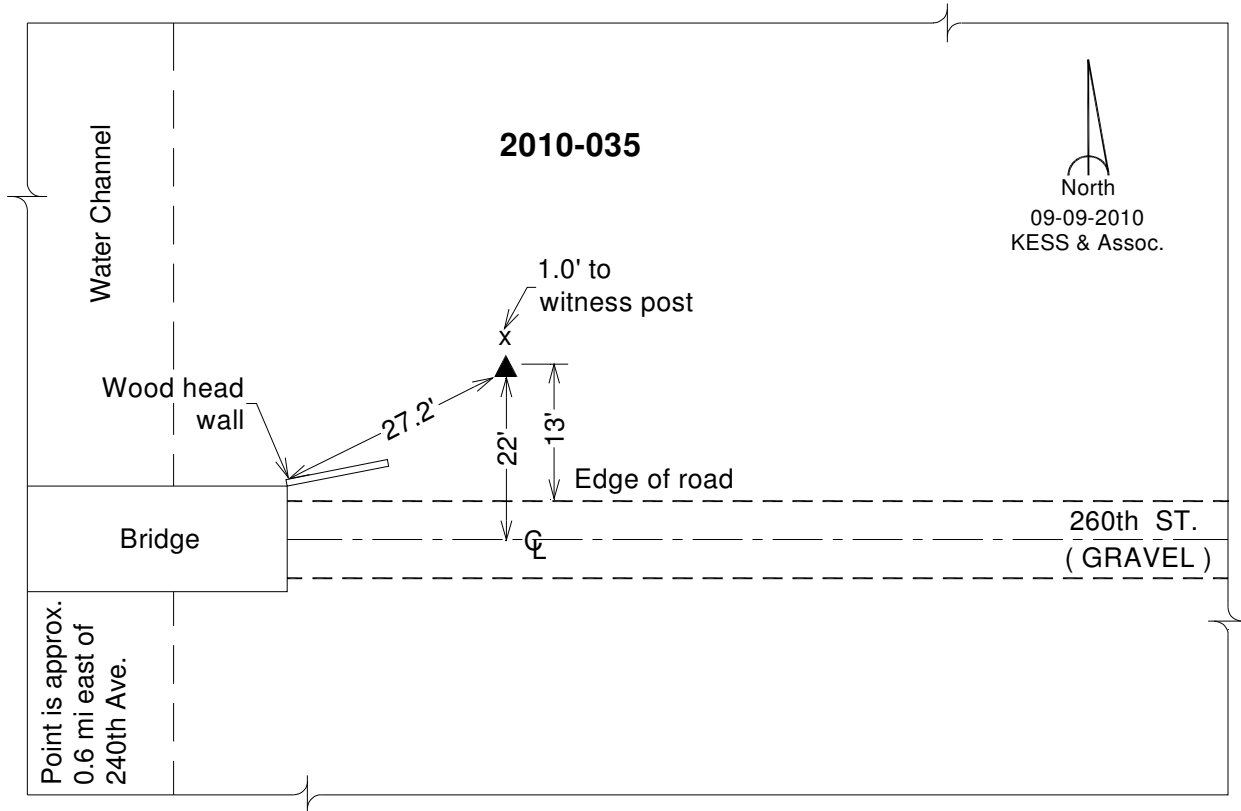
**Designation:** 2010-035 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°40'26.17487"** Longitude: **W95°43'25.03108"**  
NAVD 88 Ortho Height: **918.457sft** Ellip. Ht: **820.967sft** **Geoid12A**

Iowa South Zone (1402) Northing: **253420.295sft** Easting: **1023681.373sft**  
Mapping Angle: **-1°27'53"** Combination Scale Factor: **0.999951211**

laRCS Zone 6 Northing: **6754453.075sft** Easting: **16502694.551sft**  
Mapping Angle: **0°00'23"** Combination Scale Factor: **0.999999832**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



*This document was prepared by DCI on January 9, 2015 for use by Fremont County, Iowa*

**Fremont County, Iowa**  
Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **36**

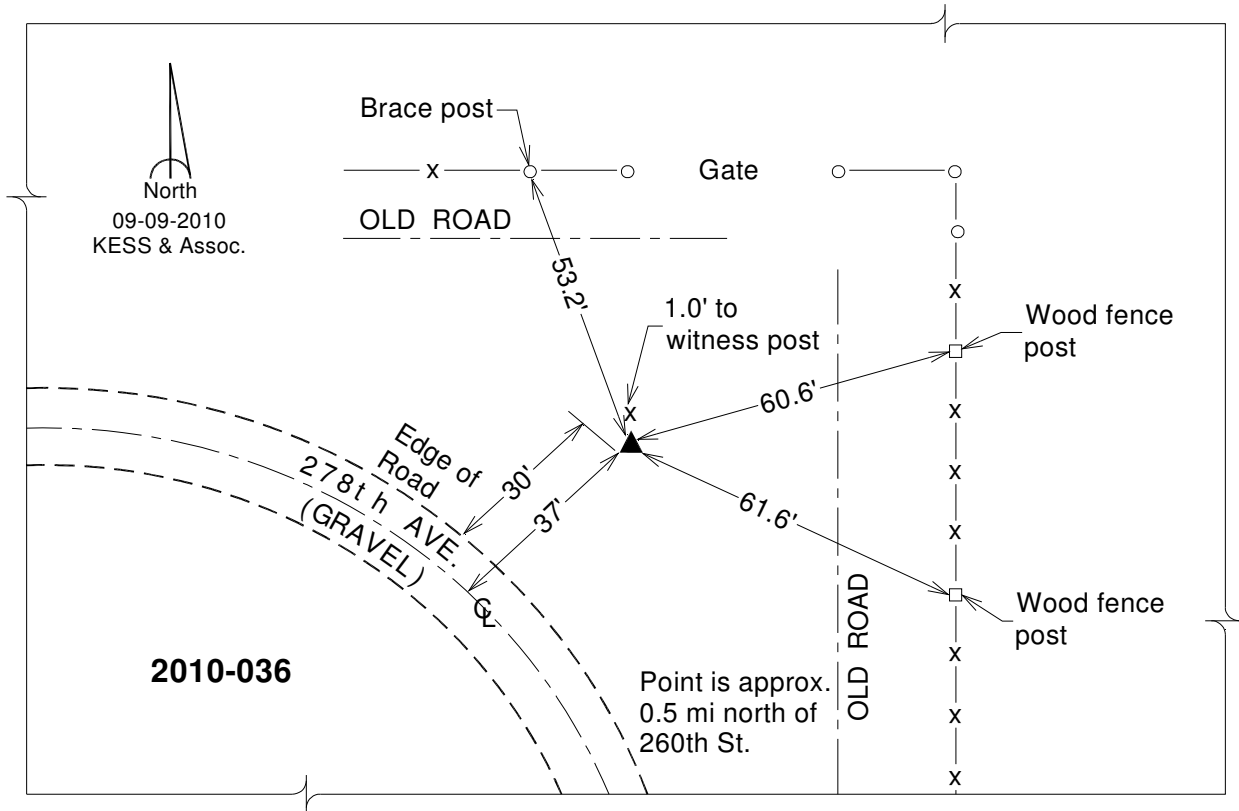
**Designation:** 2010-036 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°40'48.85353"** Longitude: **W95°39'37.09416"**  
NAVD 88 Ortho Height: **1148.458sft** Ellip. Ht: **1050.387sft** **Geoid12A**

Iowa South Zone (1402) Northing: **255272.162sft** Easting: **1041295.753sft**  
Mapping Angle: **-1°25'23"** Combination Scale Factor: **0.999939266**

IaRCS Zone 6 Northing: **6756756.567sft** Easting: **16520256.461sft**  
Mapping Angle: **0°02'51"** Combination Scale Factor: **0.999989345**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
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US Survey Feet  
**2015**

Point Name: **37**

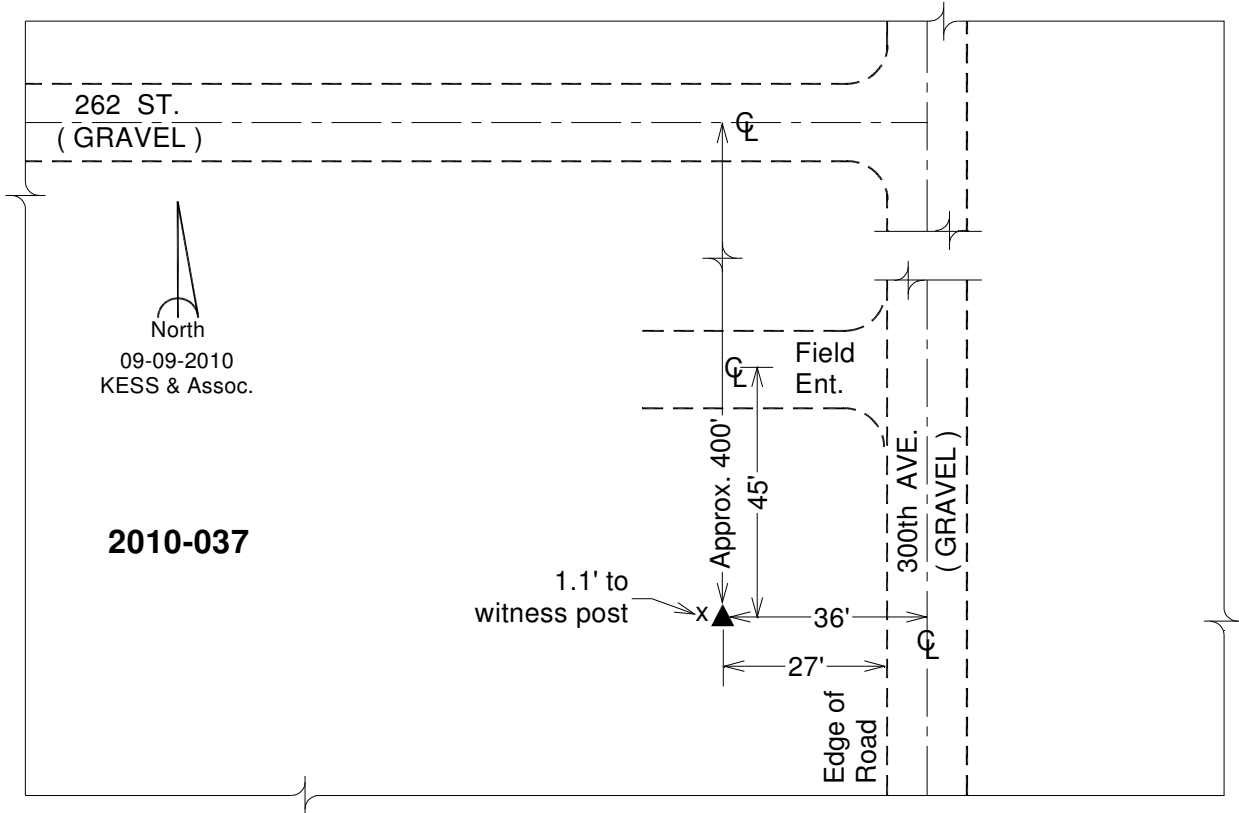
**Designation:** 2010-037 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°40'17.66471"** Longitude: **W95°37'12.09376"**  
NAVD 88 Ortho Height: **1053.017sft** Ellip. Ht: **954.464sft** **Geoid12A**

Iowa South Zone (1402) Northing: **251841.906sft** Easting: **1052386.937sft**  
Mapping Angle: **-1°23'47"** Combination Scale Factor: **0.999945218**

IaRCS Zone 6 Northing: **6753611.900sft** Easting: **16531432.573sft**  
Mapping Angle: **0°04'26"** Combination Scale Factor: **0.999994582**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
 Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane South Zone (1402)  
 Iowa Regional Coordinate System Zone 6 Council Bluffs  
 US Survey Feet  
**2015**

Point Name: **38**

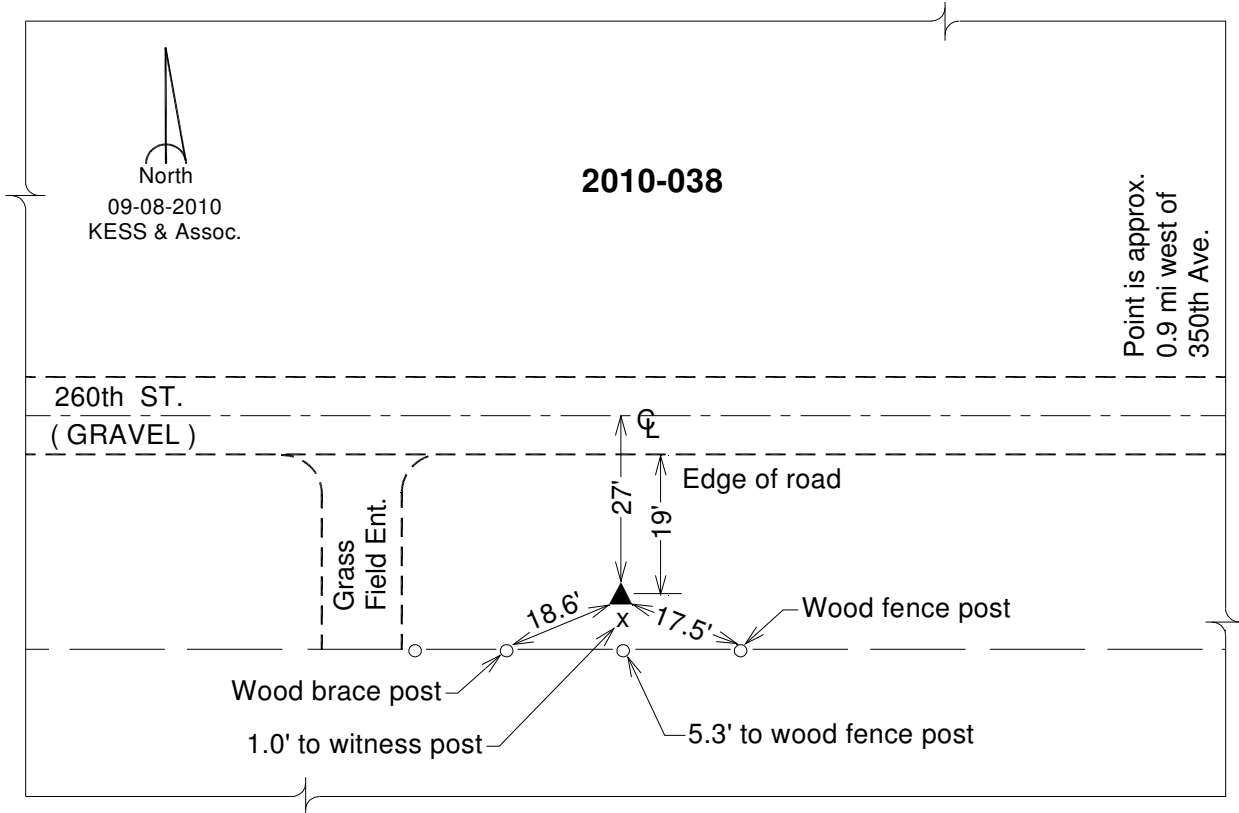
**Designation:** 2010-038 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°40'19.06119"** Longitude: **W95°32'36.82606"**  
 NAVD 88 Ortho Height: **1043.425sft** Ellip. Ht: **944.210sft** **Geoid12A**

Iowa South Zone (1402) Northing: **251475.599sft** Easting: **1073594.825sft**  
 Mapping Angle: **-1°20'46"** Combination Scale Factor: **0.999945645**

IaRCS Zone 6 Northing: **6753789.795sft** Easting: **16552643.946sft**  
 Mapping Angle: **0°07'25"** Combination Scale Factor: **0.999997110**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
 Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane South Zone (1402)  
 Iowa Regional Coordinate System Zone 6 Council Bluffs  
 US Survey Feet  
**2015**

Point Name: **39**

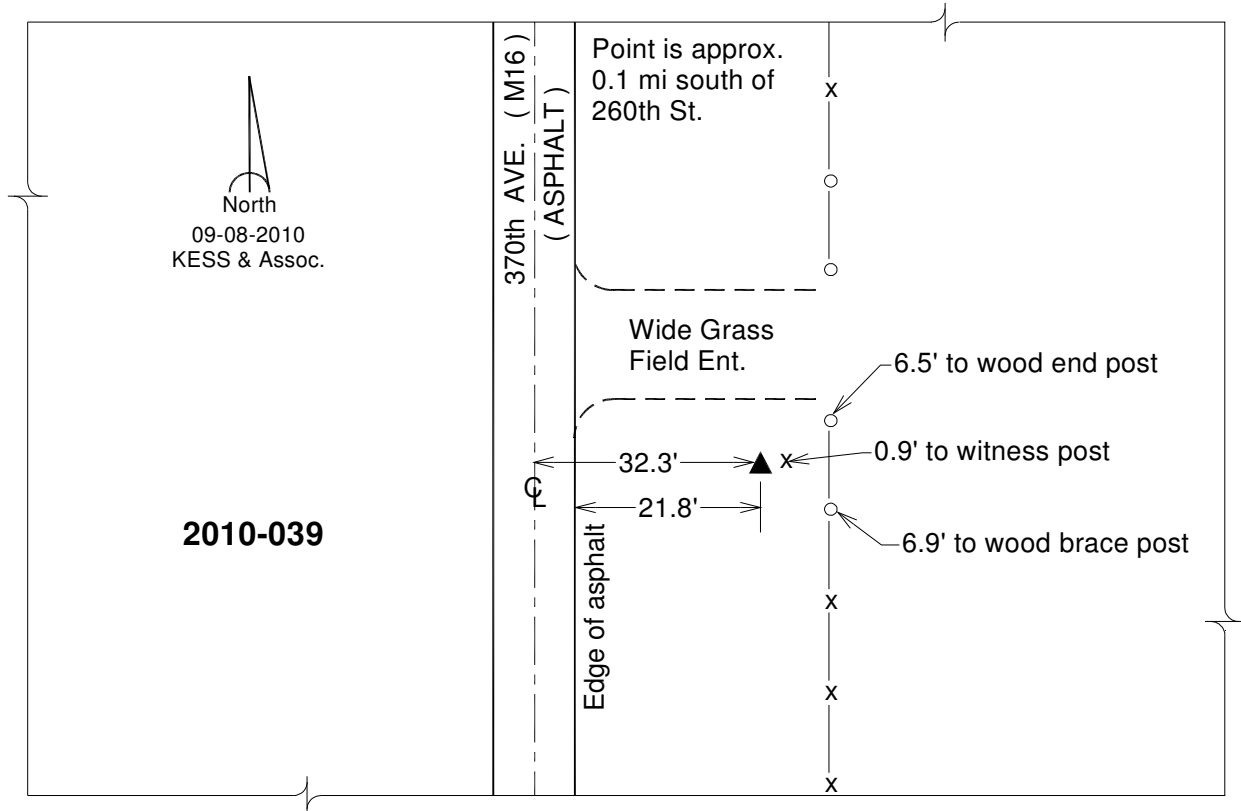
**Designation:** 2010-039 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°40'11.82420"** Longitude: **W95°29'14.66847"**  
 NAVD 88 Ortho Height: **1099.538sft** Ellip. Ht: **999.897sft** **Geoid12A**

Iowa South Zone (1402) Northing: **250382.492sft** Easting: **1089150.992sft**  
 Mapping Angle: **-1°18'33"** Combination Scale Factor: **0.999943310**

IaRCS Zone 6 Northing: **6753095.967sft** Easting: **16568223.845sft**  
 Mapping Angle: **0°09'37"** Combination Scale Factor: **0.999996605**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **40**

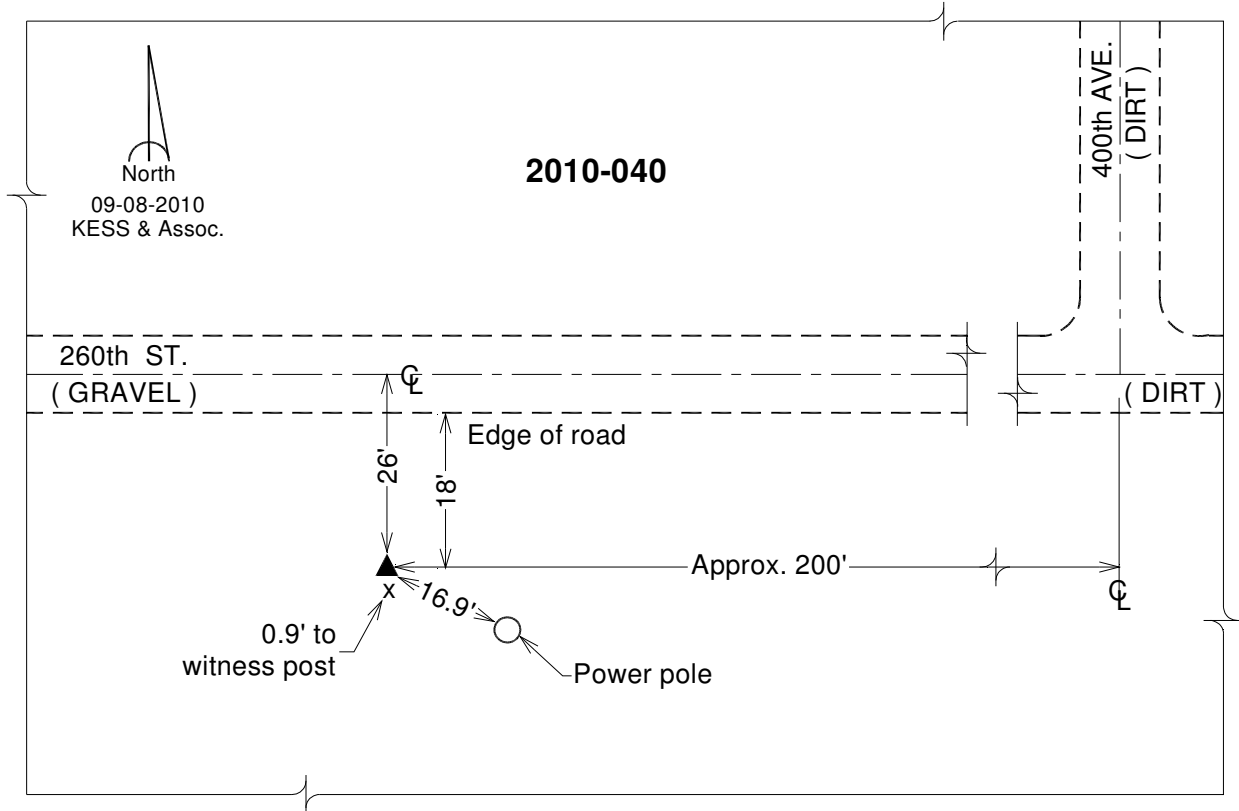
**Designation:** 2010-040 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°40'14.24040"** Longitude: **W95°25'54.70729"**  
NAVD 88 Ortho Height: **1061.946sft** Ellip. Ht: **961.904sft** **Geoid12A**

Iowa South Zone (1402) Northing: **250279.851sft** Easting: **1104560.819sft**  
Mapping Angle: **-1°16'21"** Combination Scale Factor: **0.999945015**

IaRCS Zone 6 Northing: **6753388.473sft** Easting: **16583632.080sft**  
Mapping Angle: **0°11'47"** Combination Scale Factor: **1.000001092**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **41**

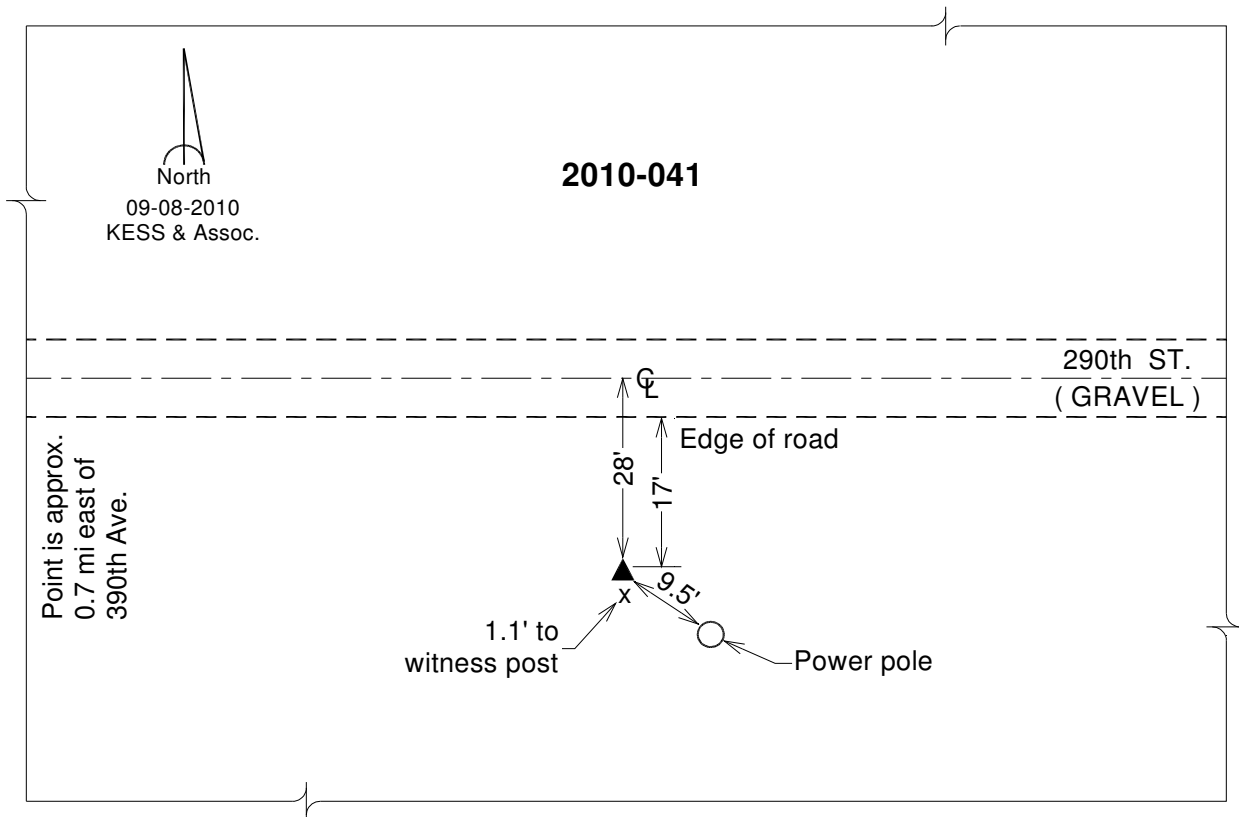
**Designation:** 2010-041 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°37'37.74452"** Longitude: **W95°26'14.57139"**  
NAVD 88 Ortho Height: **1180.805sft** Ellip. Ht: **1080.750sft** **Geoid12A**

Iowa South Zone (1402) Northing: **234480.215sft** Easting: **1102677.832sft**  
Mapping Angle: **-1°16'34"** Combination Scale Factor: **0.999946595**

IaRCS Zone 6 Northing: **6737544.930sft** Easting: **16582154.655sft**  
Mapping Angle: **0°11'34"** Combination Scale Factor: **0.999995141**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **42**

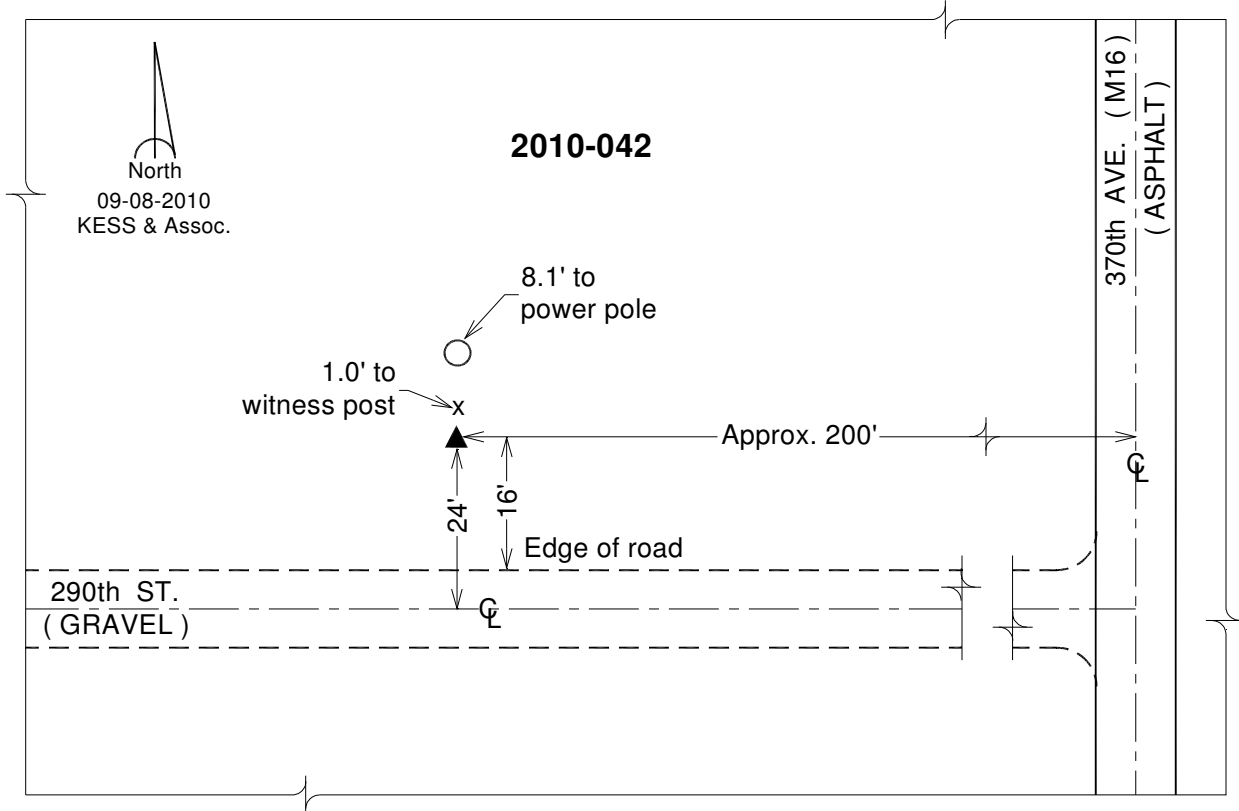
**Designation:** 2010-042 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°37'40.93633"** Longitude: **W95°29'23.17900"**  
NAVD 88 Ortho Height: **1037.480sft** Ellip. Ht: **937.765sft** **Geoid12A**

Iowa South Zone (1402) Northing: **235131.412sft** Easting: **1088146.093sft**  
Mapping Angle: **-1°18'38"** Combination Scale Factor: **0.999953264**

IaRCS Zone 6 Northing: **6737823.373sft** Easting: **16567610.309sft**  
Mapping Angle: **0°09'31"** Combination Scale Factor: **0.999999474**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
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 Iowa Regional Coordinate System Zone 6 Council Bluffs  
 US Survey Feet  
**2015**

Point Name: **43**

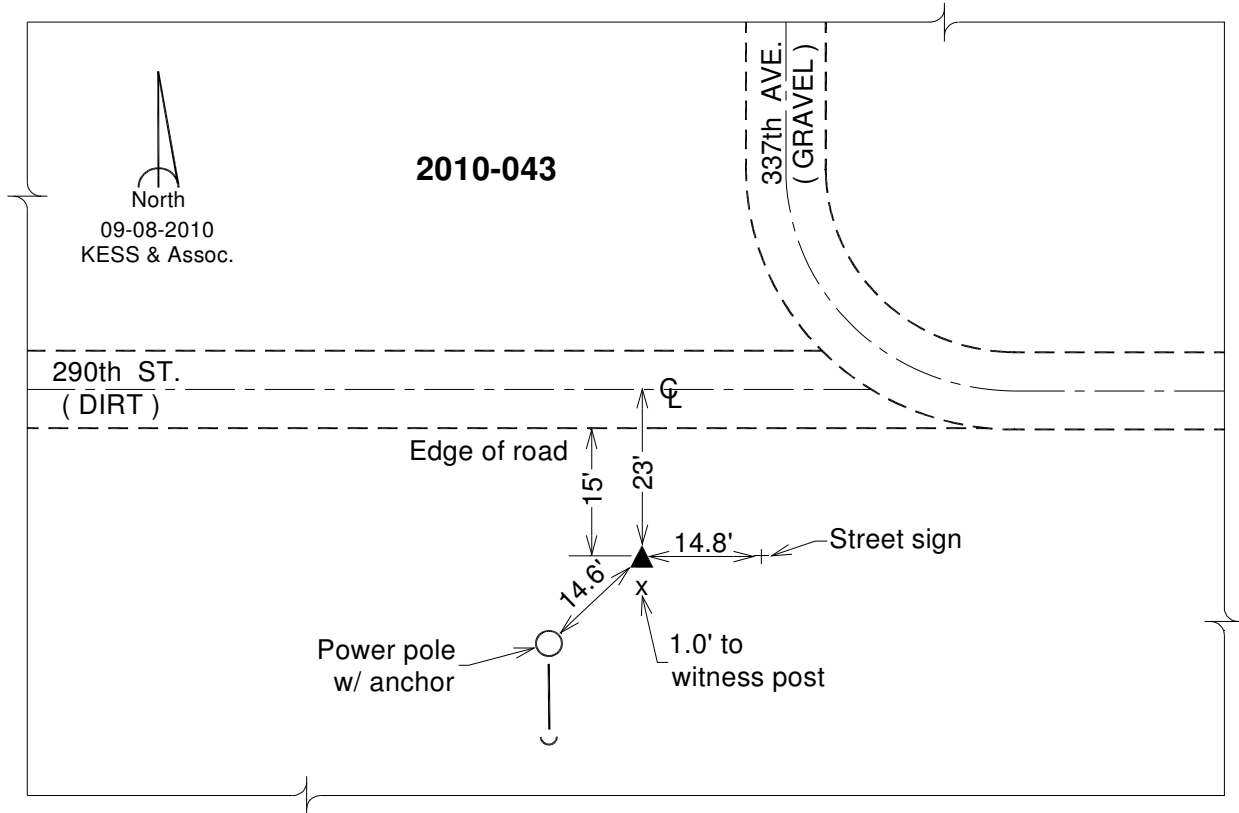
**Designation:** 2010-043 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°37'42.75069"** Longitude: **W95°33'01.27452"**  
 NAVD 88 Ortho Height: **1062.140sft** Ellip. Ht: **962.854sft** **Geoid12A**

Iowa South Zone (1402) Northing: **235705.478sft** Easting: **1071338.645sft**  
 Mapping Angle: **-1°21'02"** Combination Scale Factor: **0.999951980**

IaRCS Zone 6 Northing: **6737966.237sft** Easting: **16550792.909sft**  
 Mapping Angle: **0°07'09"** Combination Scale Factor: **0.999996001**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**

Iowa State Plane South Zone (1402)

Iowa Regional Coordinate System Zone 6 Council Bluffs

US Survey Feet

**2015**

Point Name: **44**

**Designation:** 2010-044 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°37'57.56652"** Longitude: **W95°36'04.20097"**

NAVD 88 Ortho Height: **1080.982sft** Ellip. Ht: **982.108sft** **Geoid12A**

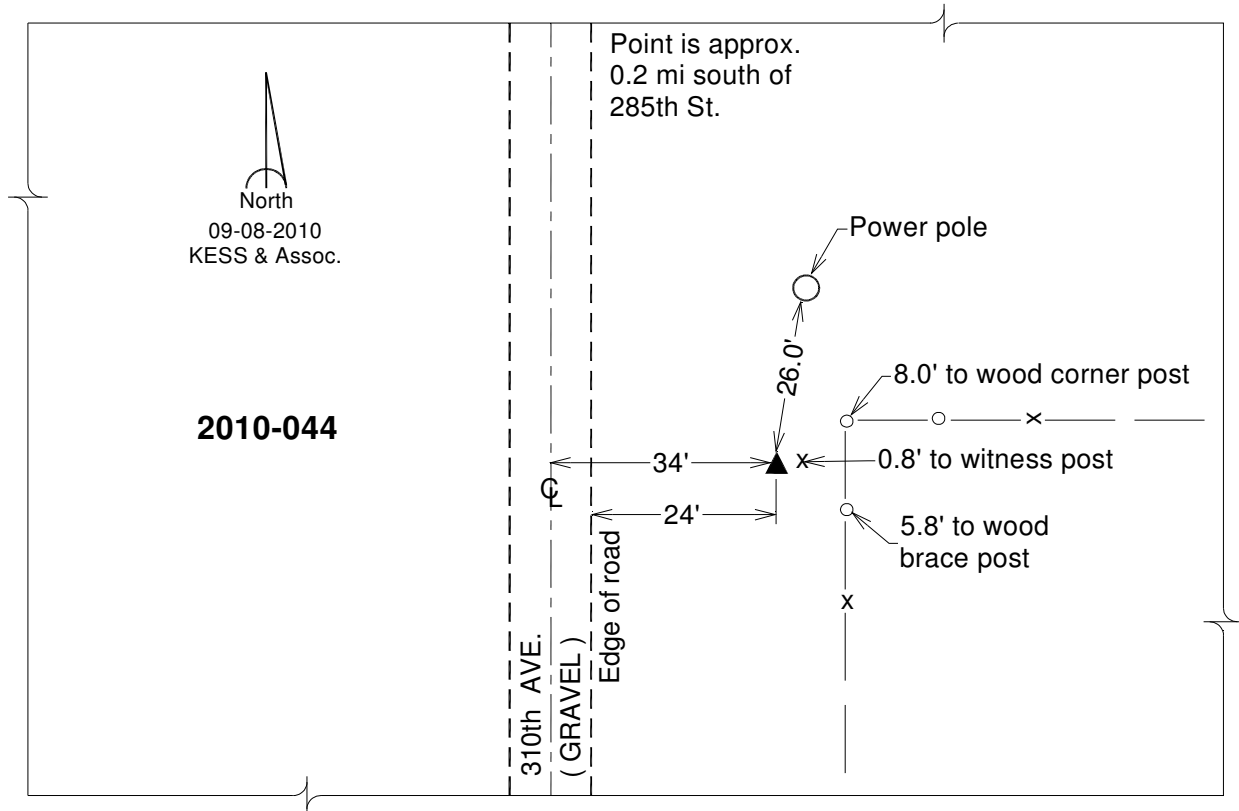
Iowa South Zone (1402) Northing: **237540.981sft** Easting: **1057274.394sft**

Mapping Angle: **-1°23'03"** Combination Scale Factor: **0.999950352**

IaRCS Zone 6 Northing: **6739440.424sft** Easting: **16536685.586sft**

Mapping Angle: **0°05'10"** Combination Scale Factor: **0.999993672**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **45**

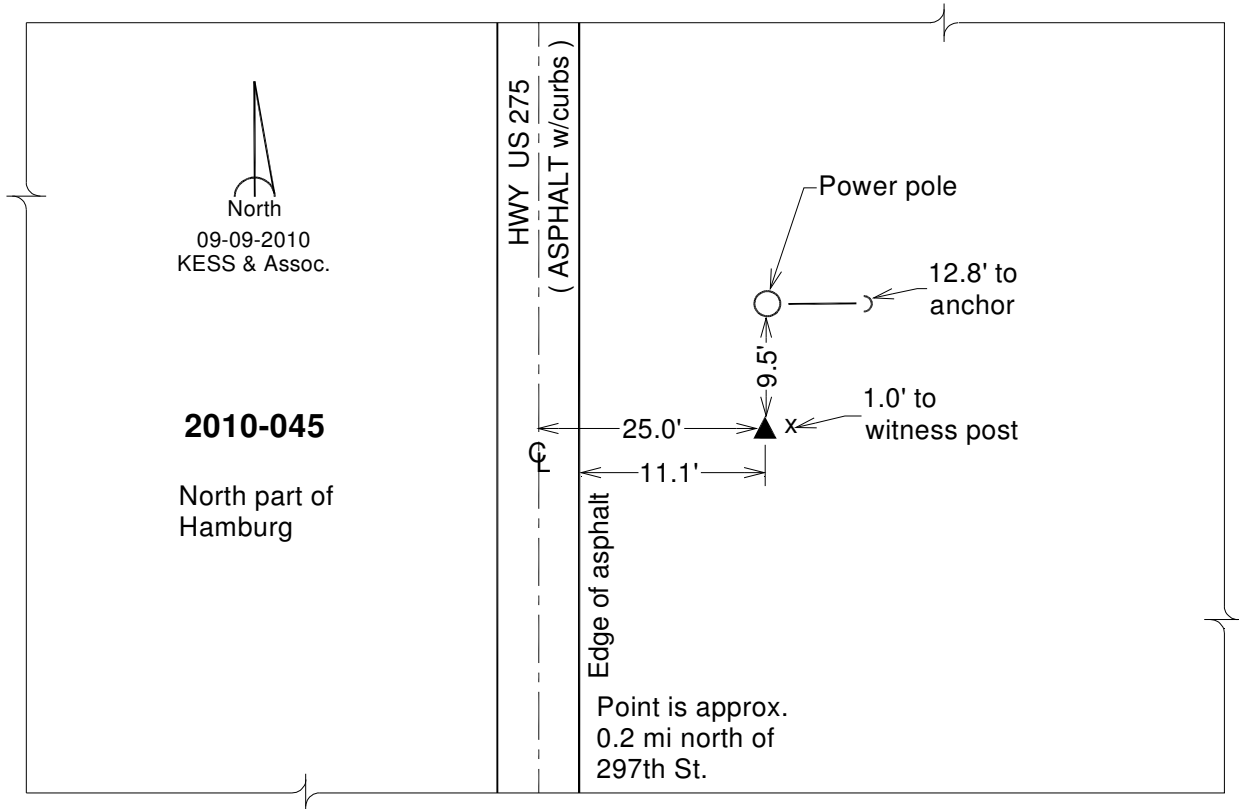
**Designation:** 2010-045 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°37'19.33610"** Longitude: **W95°38'57.41306"**  
NAVD 88 Ortho Height: **973.541sft** Ellip. Ht: **875.039sft** **Geoid12A**

Iowa South Zone (1402) Northing: **233999.445sft** Easting: **1043828.159sft**  
Mapping Angle: **-1°24'57"** Combination Scale Factor: **0.999957301**

IaRCS Zone 6 Northing: **6735554.882sft** Easting: **16523334.088sft**  
Mapping Angle: **0°03'17"** Combination Scale Factor: **0.999997865**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
 Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane South Zone (1402)  
 Iowa Regional Coordinate System Zone 6 Council Bluffs  
 US Survey Feet  
**2015**

Point Name: **46**

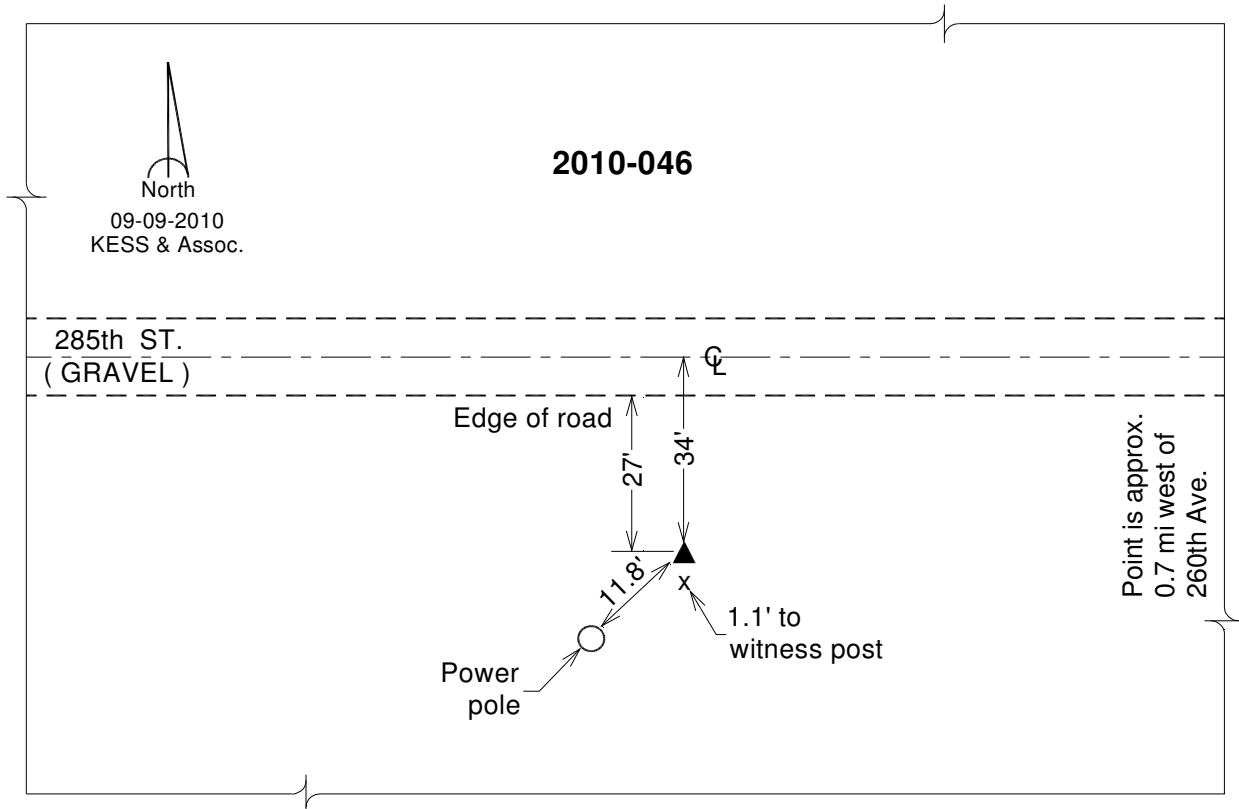
**Designation:** 2010-046 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°38'14.66562"** Longitude: **W95°42'39.04055"**  
 NAVD 88 Ortho Height: **910.304sft** Ellip. Ht: **812.458sft** **Geoid12A**

Iowa South Zone (1402) Northing: **240025.350sft** Easting: **1026885.641sft**  
 Mapping Angle: **-1°27'23"** Combination Scale Factor: **0.999957635**

IaRCS Zone 6 Northing: **6741144.193sft** Easting: **16506241.783sft**  
 Mapping Angle: **0°00'53"** Combination Scale Factor: **1.000000274**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
 Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
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 US Survey Feet  
**2015**

Point Name: **47**

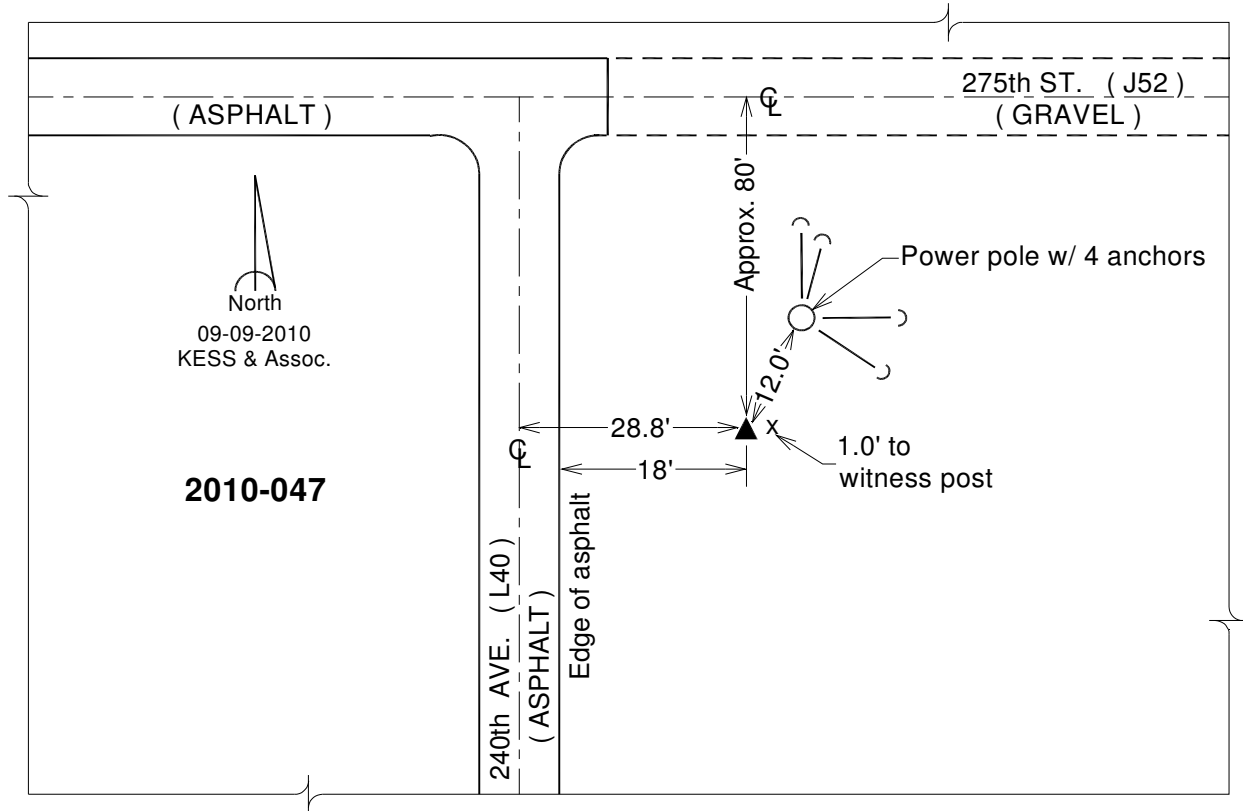
**Designation:** 2010-047 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°39'07.19385"** Longitude: **W95°44'08.31386"**  
 NAVD 88 Ortho Height: **914.414sft** Ellip. Ht: **816.913sft** **Geoid12A**

Iowa South Zone (1402) Northing: **245515.420sft** Easting: **1020142.036sft**  
 Mapping Angle: **-1°28'21"** Combination Scale Factor: **0.999954970**

IaRCS Zone 6 Northing: **6746459.568sft** Easting: **16499359.161sft**  
 Mapping Angle: **-0°00'05"** Combination Scale Factor: **1.000000017**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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US Survey Feet  
**2015**

Point Name: **48**

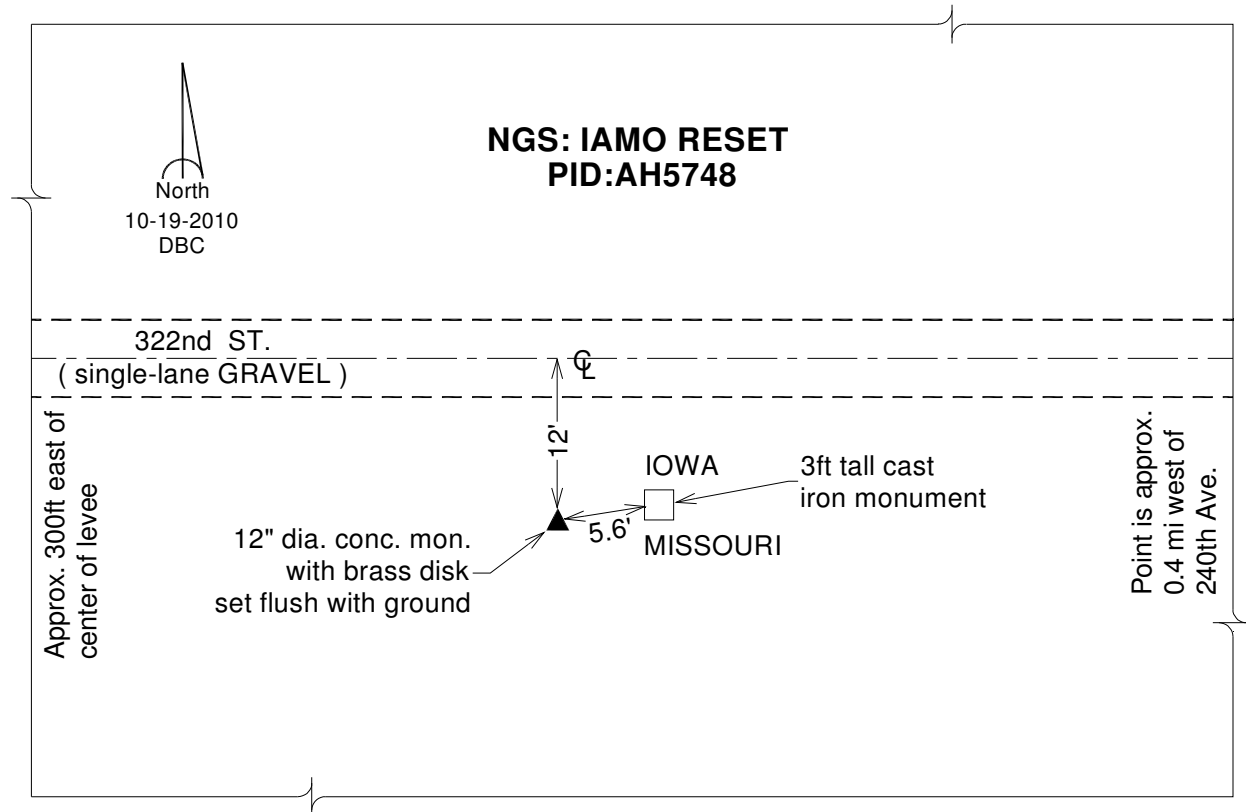
**Designation:** NGS 1<sup>st</sup> Order Horiz. "IAMO RESET" PID:AH5748

NAD 83(NA2011) Latitude: **N40°35'05.94541"** Longitude: **W95°44'37.72580"**  
NAVD 88 Ortho Height: **911.301sft** Ellip. Ht: **813.574sft** **Geoid12A**

Iowa South Zone (1402) Northing: **221167.225sft** Easting: **1017246.061sft**  
Mapping Angle: **-1°28'41"** Combination Scale Factor: **0.999966920**

IaRCS Zone 6 Northing: **6722044.090sft** Easting: **16497089.156sft**  
Mapping Angle: **-0°00'25"** Combination Scale Factor: **1.000000185**

**Monument Type:** 12" dia. round concrete monument set flush with ground. Station Mark is a brass disk stamped "IAMO 1934 RESET 1994".



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US Survey Feet  
**2015**

Point Name: **49**

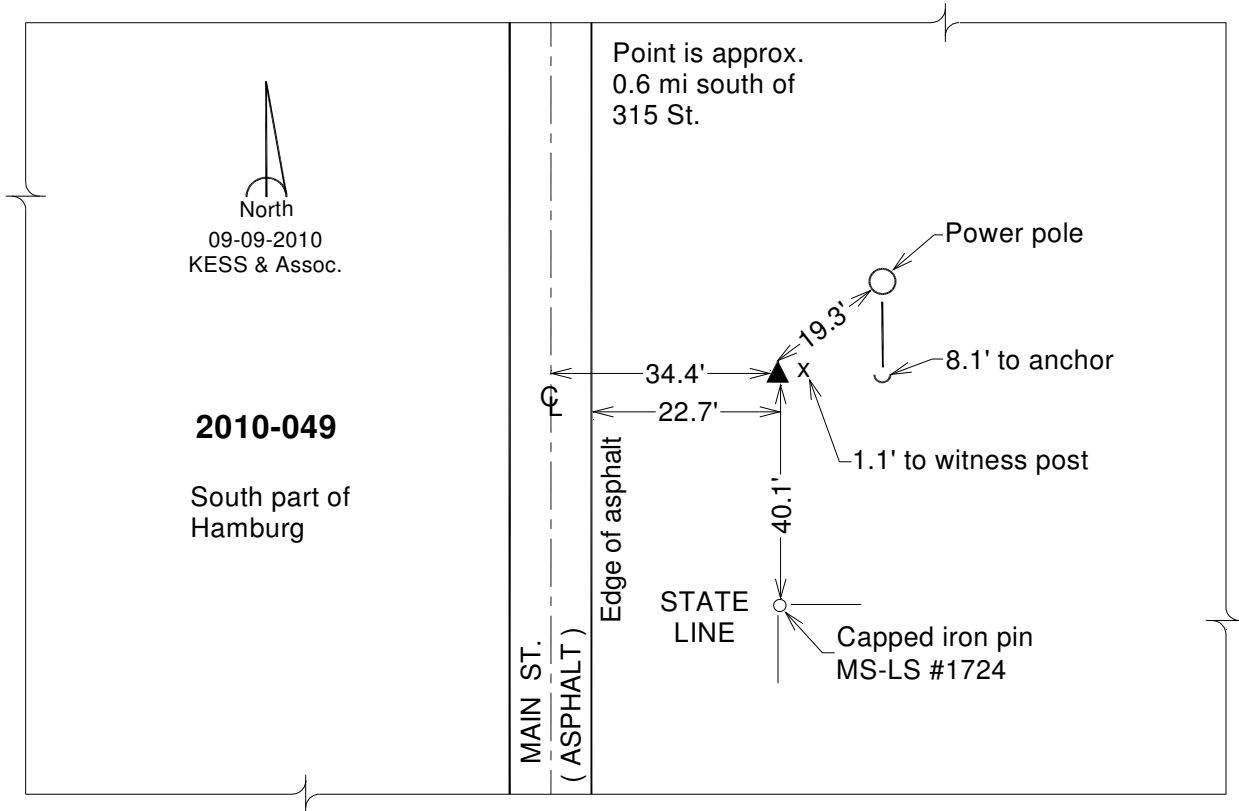
**Designation:** 2010-049 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°35'02.99524"** Longitude: **W95°39'30.95312"**  
NAVD 88 Ortho Height: **907.266sft** Ellip. Ht: **808.720sft** **Geoid12A**

Iowa South Zone (1402) Northing: **220269.844sft** Easting: **1040900.225sft**  
Mapping Angle: **-1°25'19"** Combination Scale Factor: **0.999967304**

IaRCS Zone 6 Northing: **6721754.154sft** Easting: **16520759.349sft**  
Mapping Angle: **0°02'55"** Combination Scale Factor: **1.000000900**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **50**

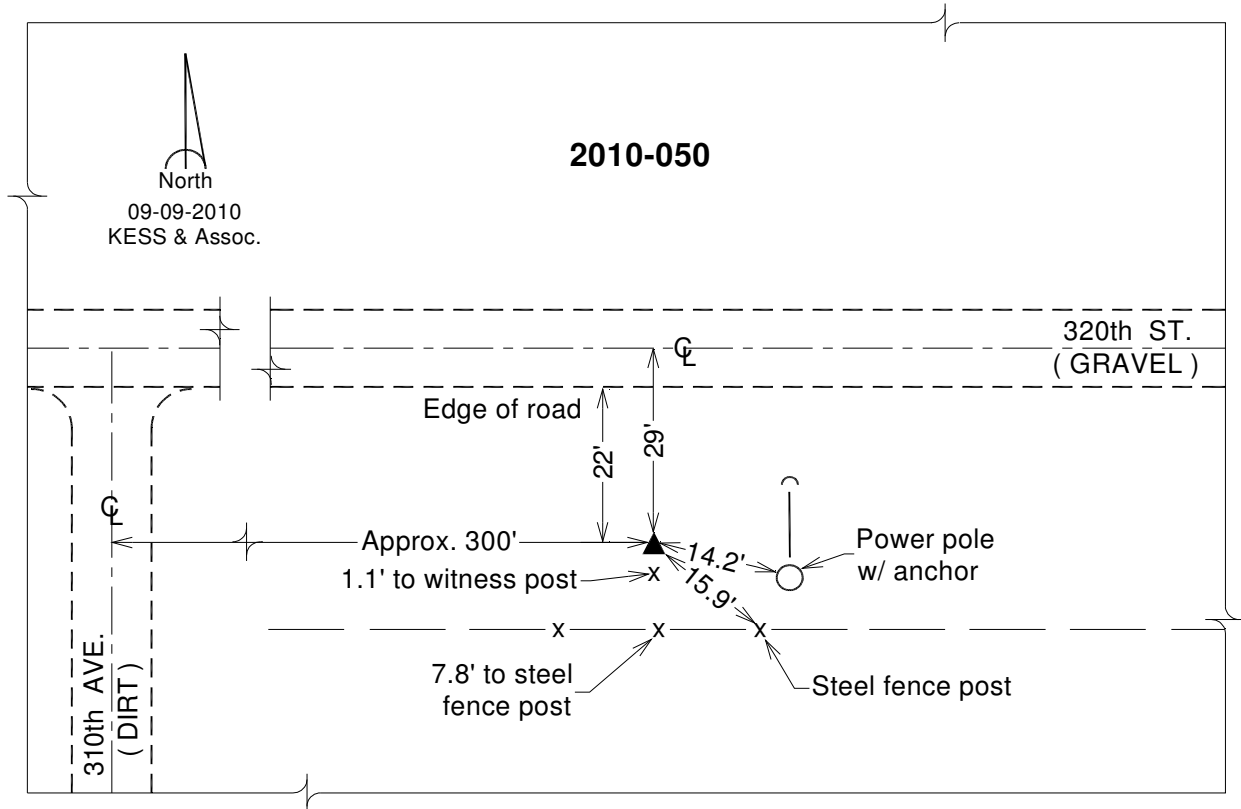
**Designation:** 2010-050 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°35'06.64932"** Longitude: **W95°36'03.27127"**  
NAVD 88 Ortho Height: **1079.656sft** Ellip. Ht: **980.671sft** **Geoid12A**

Iowa South Zone (1402) Northing: **220247.231sft** Easting: **1056928.316sft**  
Mapping Angle: **-1°23'02"** Combination Scale Factor: **0.999958910**

IaRCS Zone 6 Northing: **6722142.811sft** Easting: **16536783.291sft**  
Mapping Angle: **0°05'10"** Combination Scale Factor: **0.999993749**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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 US Survey Feet  
**2015**

Point Name: **51**

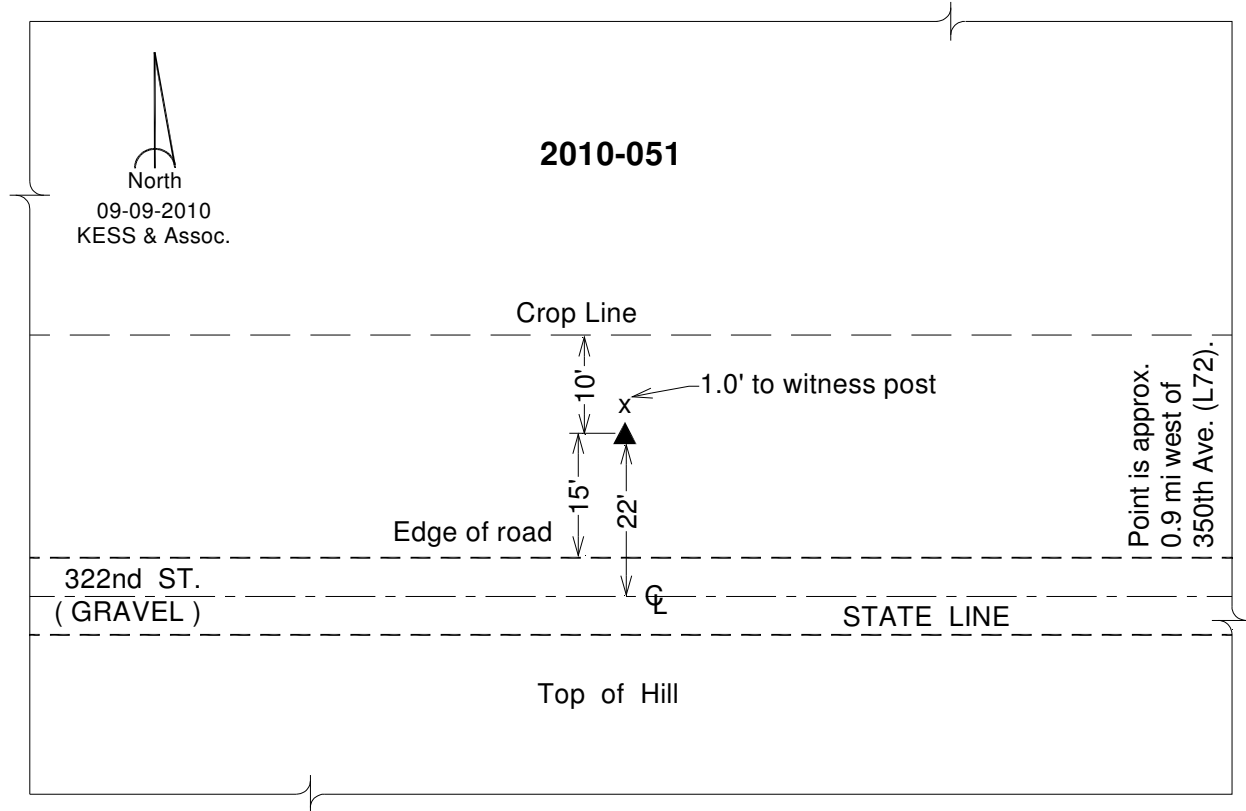
**Designation:** 2010-051 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°34'57.21103"** Longitude: **W95°32'37.52120"**  
 NAVD 88 Ortho Height: **1106.472sft** Ellip. Ht: **1007.076sft** **Geoid12A**

Iowa South Zone (1402) Northing: **218914.155sft** Easting: **1072776.041sft**  
 Mapping Angle: **-1°20'46"** Combination Scale Factor: **0.999958139**

laRCS Zone 6 Northing: **6721216.631sft** Easting: **16552660.557sft**  
 Mapping Angle: **0°07'24"** Combination Scale Factor: **0.999994112**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
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Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **52**

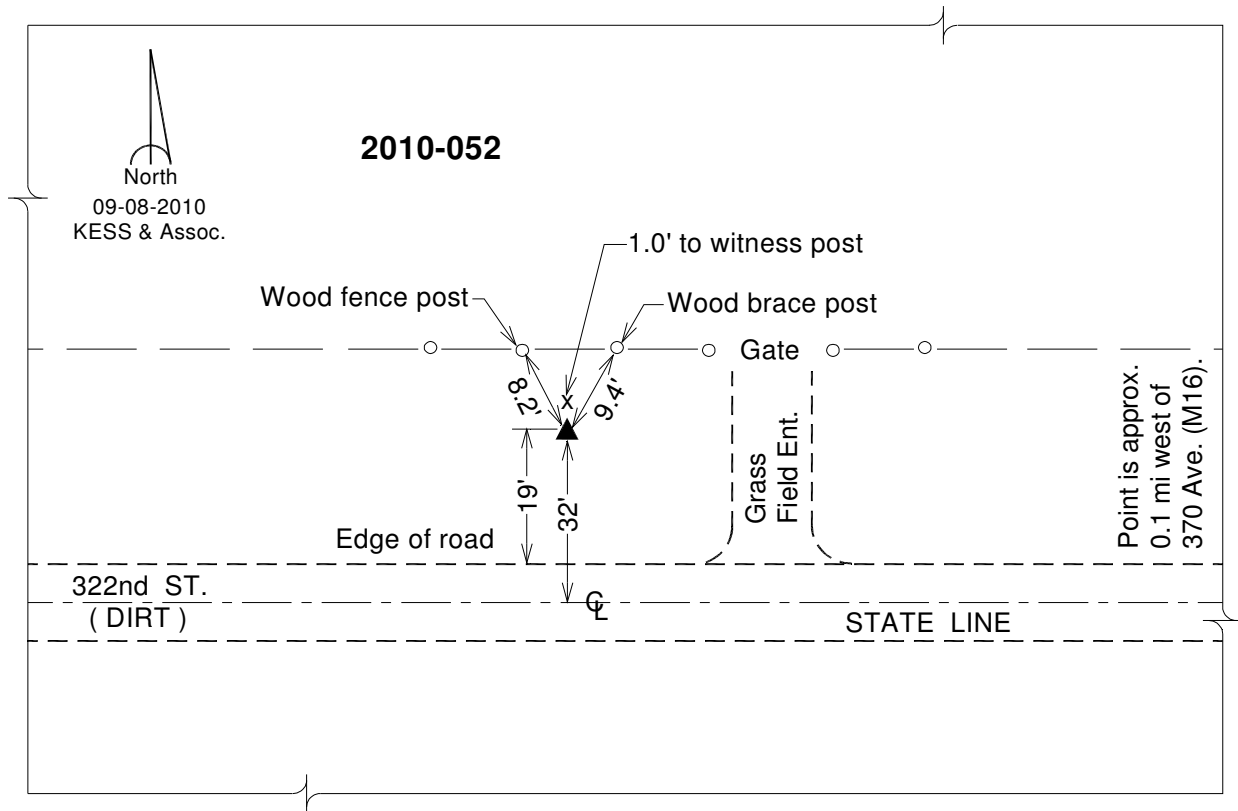
**Designation:** 2010-052 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°34'54.70454"** Longitude: **W95°29'29.65618"**  
NAVD 88 Ortho Height: **1094.875sft** Ellip. Ht: **995.135sft** **Geoid12A**

Iowa South Zone (1402) Northing: **218324.356sft** Easting: **1087261.655sft**  
Mapping Angle: **-1°18'43"** Combination Scale Factor: **0.999958839**

IaRCS Zone 6 Northing: **6720998.459sft** Easting: **16567157.065sft**  
Mapping Angle: **0°09'26"** Combination Scale Factor: **0.999996667**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



*This document was prepared by DCI on January 9, 2015 for use by Fremont County, Iowa*

**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **53**

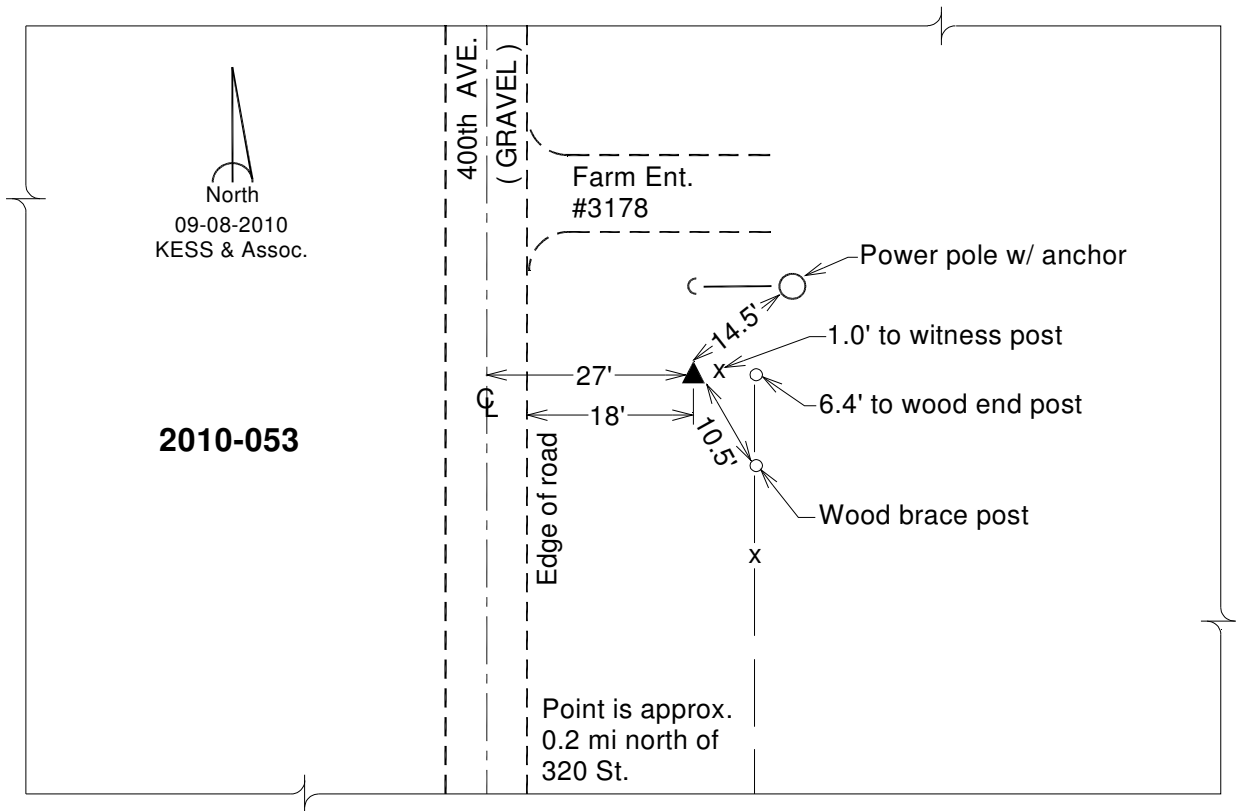
**Designation:** 2010-053 Fremont Co GPS Control Pt (Set by DCI in 2010)

NAD 83(NA2011) Latitude: **N40°35'13.55408"** Longitude: **W95°25'51.62301"**  
NAVD 88 Ortho Height: **1161.821sft** Ellip. Ht: **1061.713sft** **Geoid12A**

Iowa South Zone (1402) Northing: **219852.190sft** Easting: **1104122.939sft**  
Mapping Angle: **-1°16'19"** Combination Scale Factor: **0.999954687**

IaRCS Zone 6 Northing: **6722958.092sft** Easting: **16583974.312sft**  
Mapping Angle: **0°11'48"** Combination Scale Factor: **0.999996395**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**

Iowa State Plane South Zone (1402)

Iowa Regional Coordinate System Zone 6 Council Bluffs

US Survey Feet

**2015**

Point Name: **1003**

**Designation:** NGS horiz. & 1st order vertical "C 133" PID:LF1169

NAD 83(NA2011) Latitude: **N40°44'37.45689"** Longitude: **W95°48'35.31709"**

NAVD 88 Ortho Height: **928.280sft** Ellip. Ht: **832.581sft** **Geoid12A**

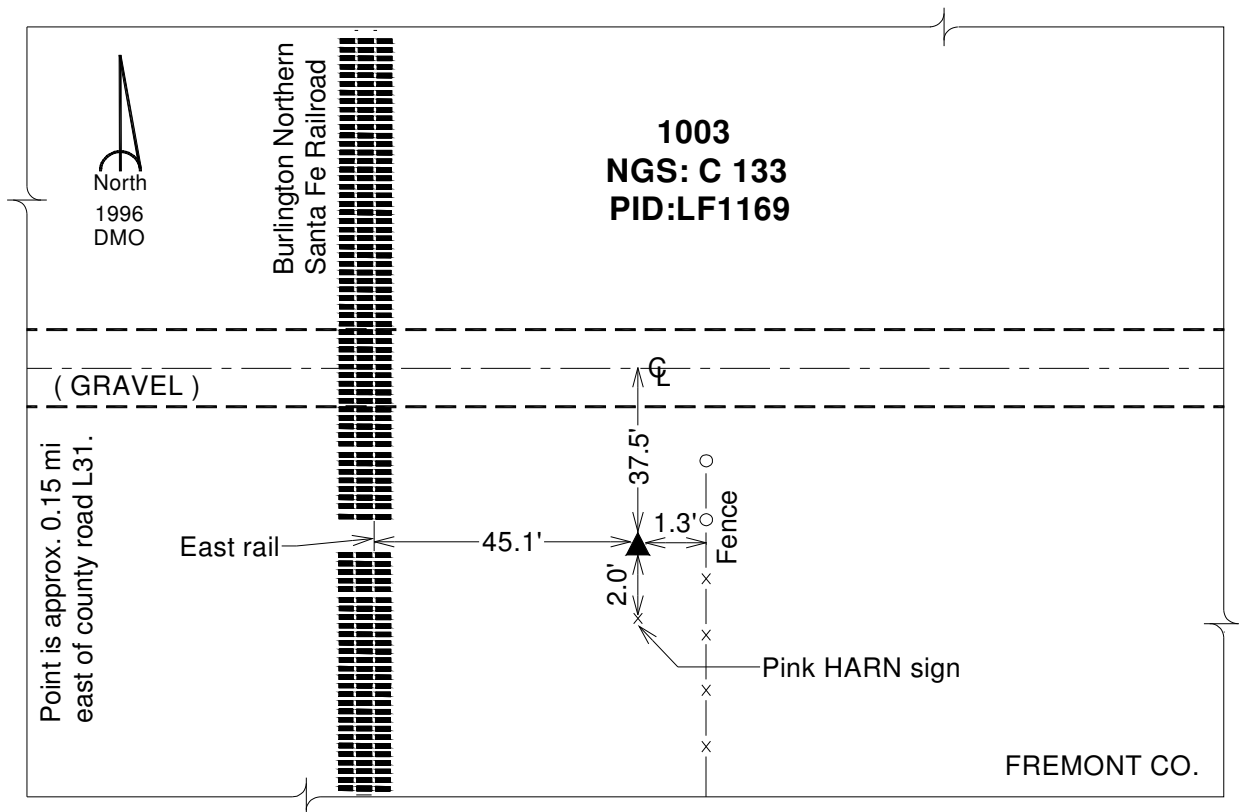
Iowa South Zone (1402) Northing: **279464.410sft** Easting: **1000456.590sft**

Mapping Angle: **-1°31'17"** Combination Scale Factor: **0.999940274**

IaRCS Zone 6 Northing: **6779893.652sft** Easting: **16478807.416sft**

Mapping Angle: **-0°03'00"** Combination Scale Factor: **0.999999782**

**Monument Type:** The station is a bench mark disk stamped "C 133 1948" and set in the top of concrete monument.



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**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **1017**

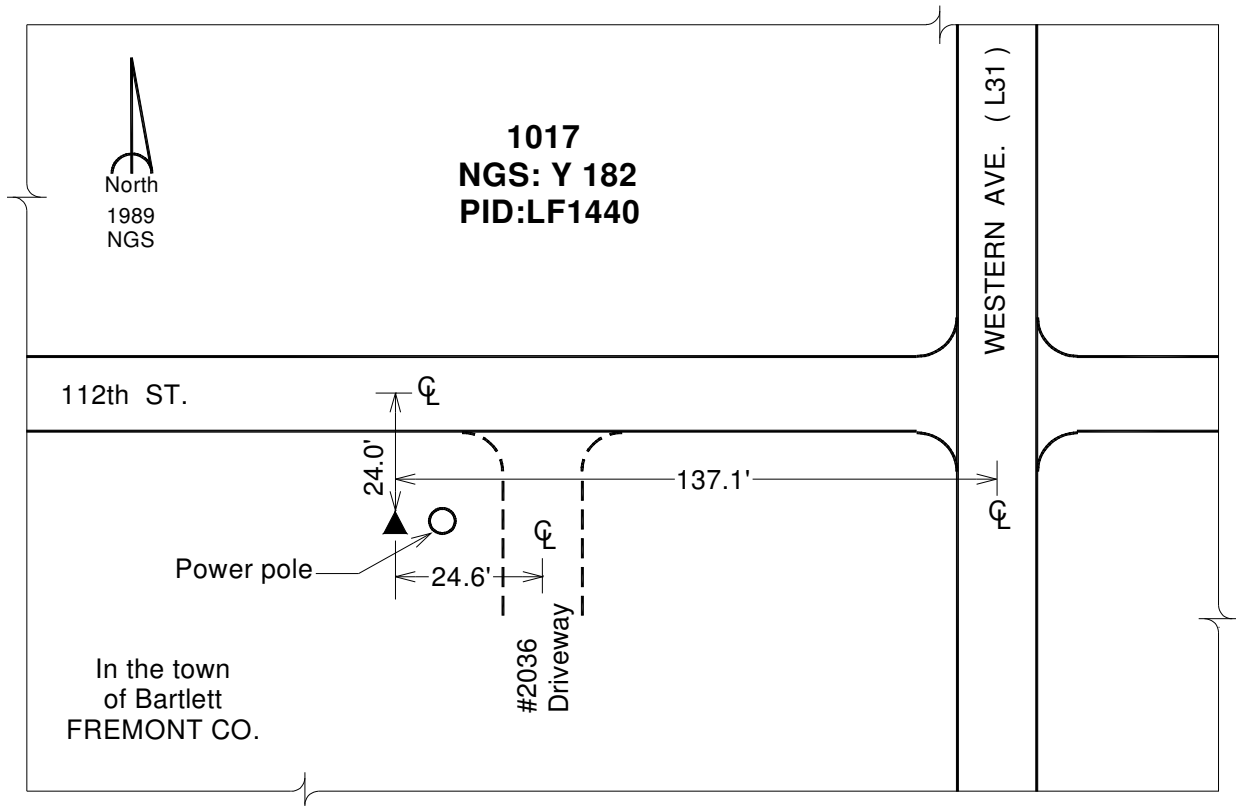
**Designation:** NGS vert. "Y 182" PID:LF1440 (2010 Fremont Co. GPS observations)

NAD 83(NA2011) Latitude: **N40°53'06.47649"** Longitude: **W95°47'43.41196"**  
NAVD 88 Ortho Height: **945.290sft** Ellip. Ht: **852.475sft** **Geoid12A**

Iowa South Zone (1402) Northing: **330854.517sft** Easting: **1005809.600sft**  
Mapping Angle: **-1°30'43"** Combination Scale Factor: **0.999922795**

IaRCS Zone 6 Northing: **6831407.784sft** Easting: **16482839.294sft**  
Mapping Angle: **-0°02'26"** Combination Scale Factor: **0.999998657**

**Monument Type:** The station is a stainless steel rod set flush, with access to the datum point through a 5-inch NGS logo cap stamped "Y 182 1989"



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**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **1018**

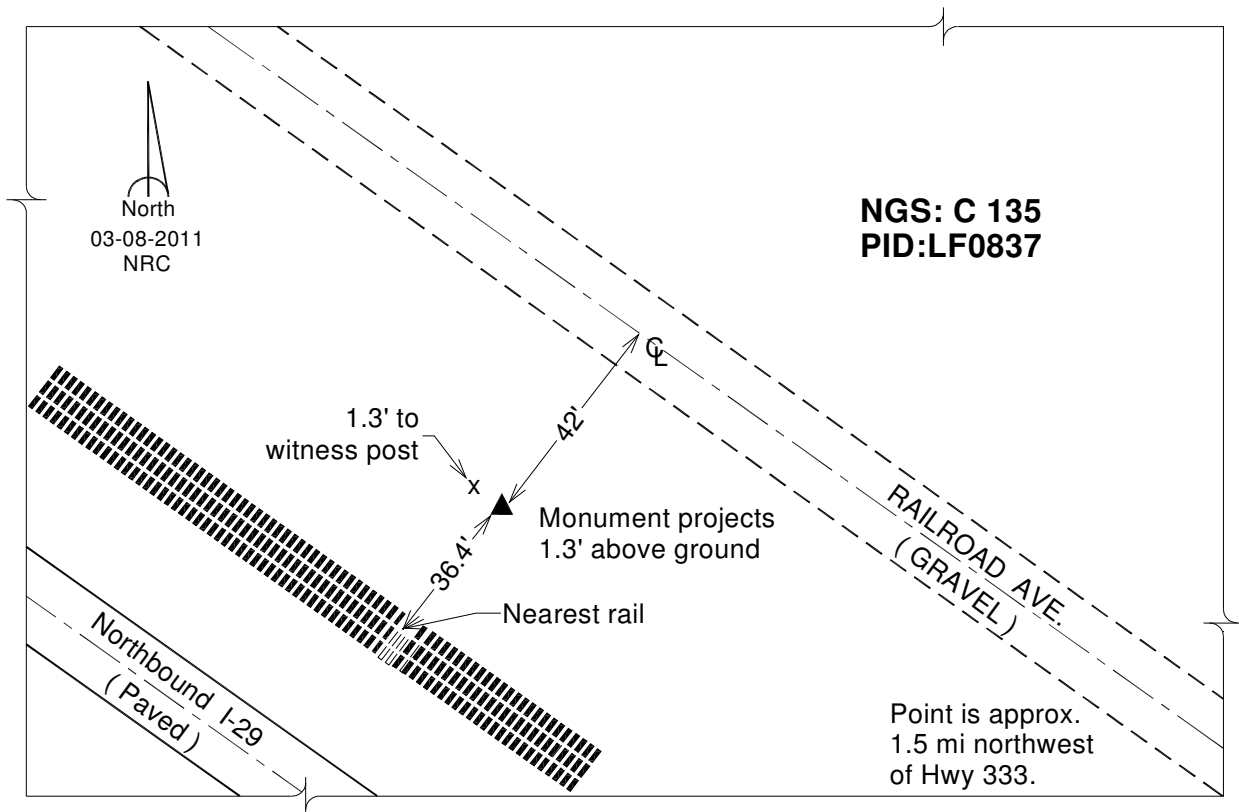
**Designation:** NGS 1st order vertical "C 135" PID:LF0837

NAD 83(NA2011) Latitude: **N40°37'22.95425"** Longitude: **W95°42'17.24357"**  
NAVD 88 Ortho Height: **907.550sft** Ellip. Ht: **809.570sft** **Geoid12A**

Iowa South Zone (1402) Northing: **234751.120sft** Easting: **1028432.888sft**  
Mapping Angle: **-1°27'08"** Combination Scale Factor: **0.999960249**

IaRCS Zone 6 Northing: **6735911.201sft** Easting: **16507923.976sft**  
Mapping Angle: **0°01'07"** Combination Scale Factor: **1.000000439**

**Monument Type:** The station is a bench mark disk stamped "C 135 1948" and set in the top of concrete monument.



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**Fremont County, Iowa**  
Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **1022**

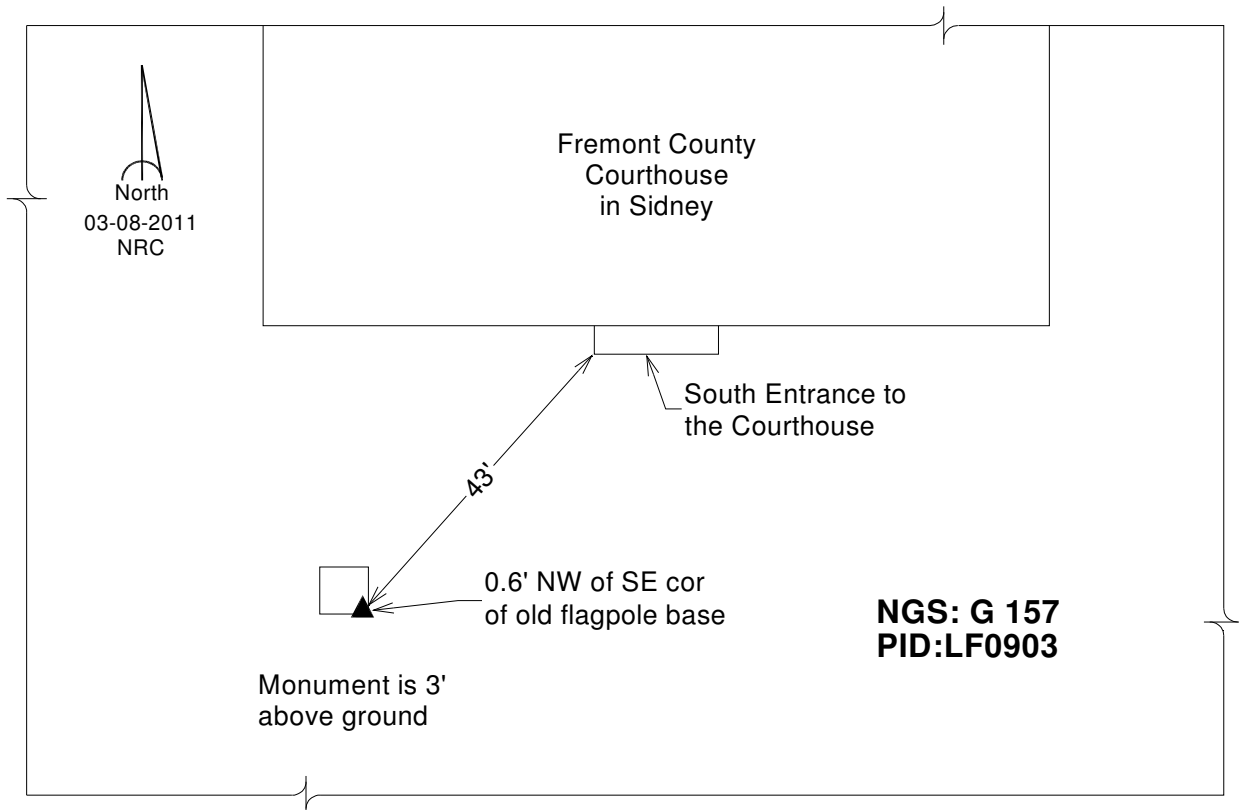
**Designation:** NGS 2nd order vertical "G 157" PID:LF0903

NAD 83(NA2011) Latitude: **N40°44'50.72643"** Longitude: **W95°38'49.30909"**  
NAVD 88 Ortho Height: **1176.580sft** Ellip. Ht: **1078.955sft** **Geoid12A**

Iowa South Zone (1402) Northing: **279651.469sft** Easting: **1045580.338sft**  
Mapping Angle: **-1°24'51"** Combination Scale Factor: **0.999928011**

IaRCS Zone 6 Northing: **6781239.155sft** Easting: **16523914.171sft**  
Mapping Angle: **0°03'23"** Combination Scale Factor: **0.999988166**

**Monument Type:** The station is a bench mark disk stamped "G 157 1949" and set in the top of southeast corner of concrete flagpole base.



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**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **1024**

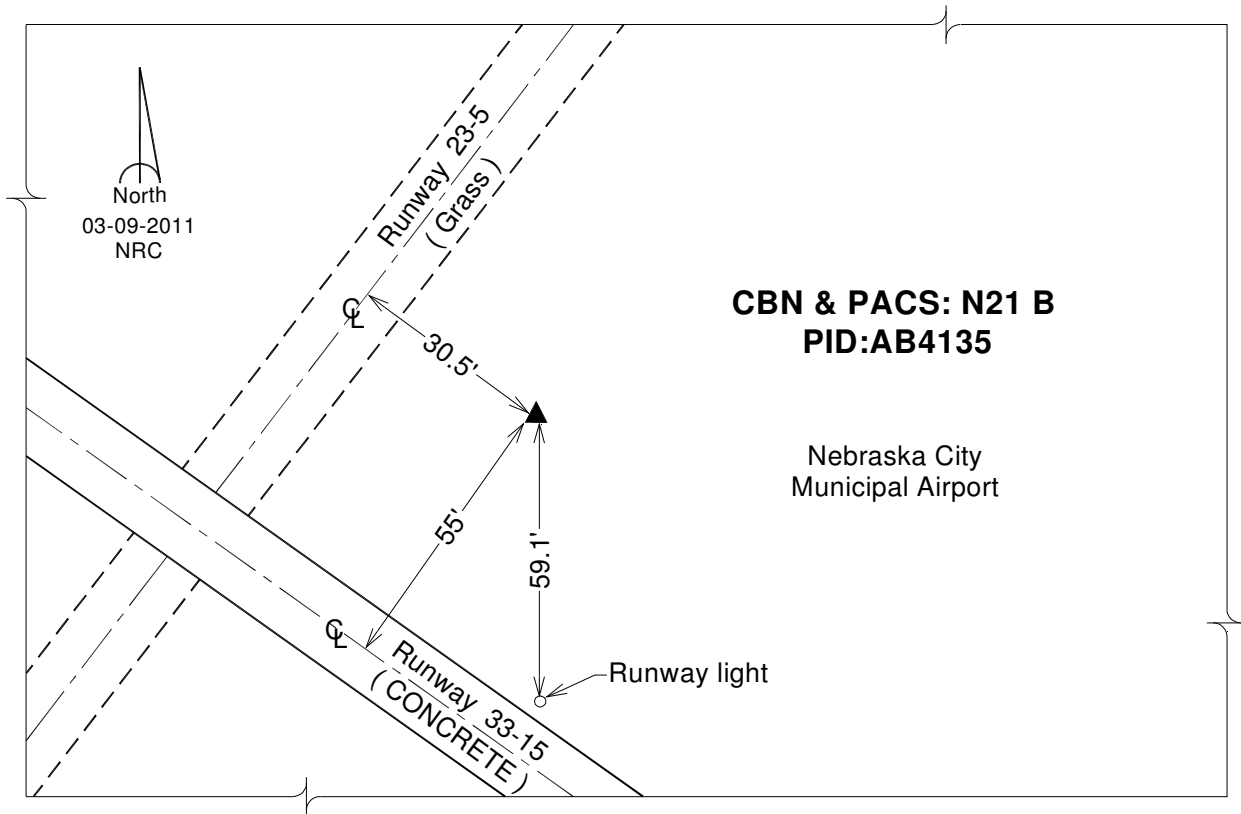
**Designation:** CBN & PACS horiz. control station "N21 B" PID:AB4135

NAD 83(NA2011) Latitude: **N40°36'27.05898"** Longitude: **W95°51'56.48750"**  
NAVD 88 Ortho Height: **1159.210sft** Ellip. Ht: **1063.088sft** **Geoid12A**

Iowa South Zone (1402) Northing: **230269.877sft** Easting: **983628.365sft**  
Mapping Angle: **-1°33'30"** Combination Scale Factor: **0.999950899**

IaRCS Zone 6 Northing: **6730280.646sft** Easting: **16463247.555sft**  
Mapping Angle: **-0°05'10"** Combination Scale Factor: **0.999989813**

**Monument Type:** The station is a stainless steel rod in a sleeve.



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**Fremont County, Iowa**  
 Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane South Zone (1402)  
 Iowa Regional Coordinate System Zone 6 Council Bluffs  
 US Survey Feet  
**2015**

Point Name: **1026**

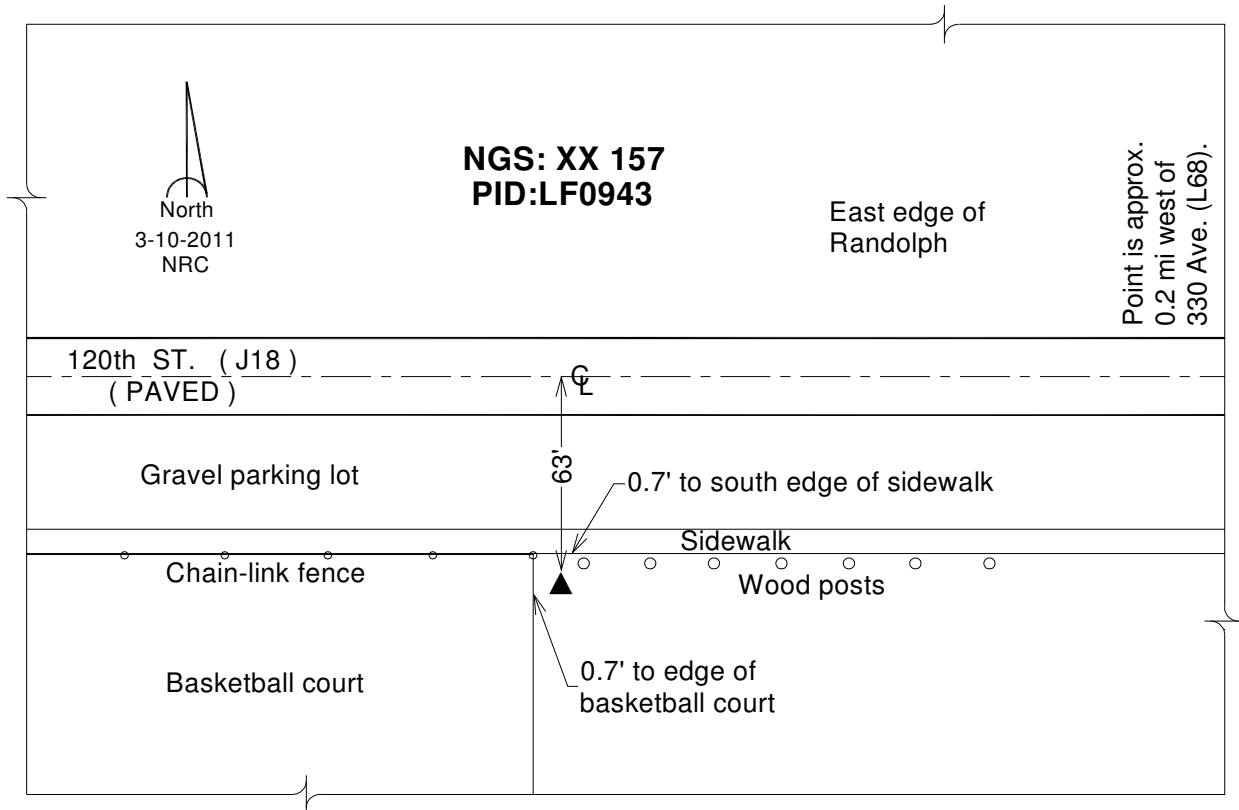
**Designation:** NGS 2nd order vertical "XX 157" PID:LF0943

NAD 83(NA2011) Latitude: **N40°52'22.87338"** Longitude: **W95°33'37.67465"**  
 NAVD 88 Ortho Height: **977.110sft** Ellip. Ht: **880.491sft** **Geoid12A**

Iowa South Zone (1402) Northing: **324816.737sft** Easting: **1070642.513sft**  
 Mapping Angle: **-1°21'26"** Combination Scale Factor: **0.999922638**

IaRCS Zone 6 Northing: **6827035.829sft** Easting: **16547810.739sft**  
 Mapping Angle: **0°06'47"** Combination Scale Factor: **0.999999596**

**Monument Type:** The station is a bench mark disk stamped "XX 157 1949" and set in the top of concrete monument.



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**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **1027**

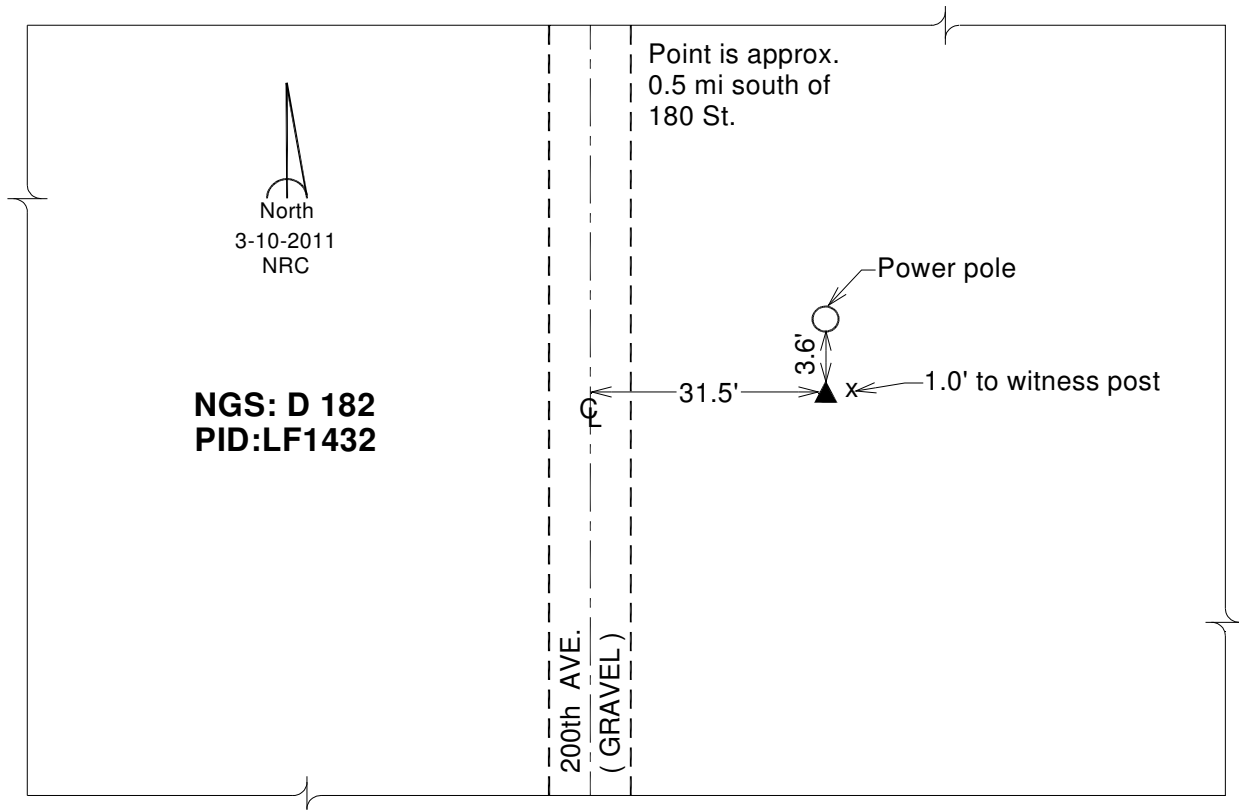
**Designation:** NGS 1st order vertical "D 182" PID:LF1432

NAD 83(NA2011) Latitude: **N40°46'48.14688"** Longitude: **W95°48'11.91181"**  
NAVD 88 Ortho Height: **930.920sft** Ellip. Ht: **835.745sft** **Geoid12A**

Iowa South Zone (1402) Northing: **292638.055sft** Easting: **1002607.661sft**  
Mapping Angle: **-1°31'02"** Combination Scale Factor: **0.999935304**

IaRCS Zone 6 Northing: **6793119.011sft** Easting: **16480619.589sft**  
Mapping Angle: **-0°02'45"** Combination Scale Factor: **0.999999548**

**Monument Type:** The station is a stainless steel rod in a sleeve with a NGS style alum. access cover.



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**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **1028**

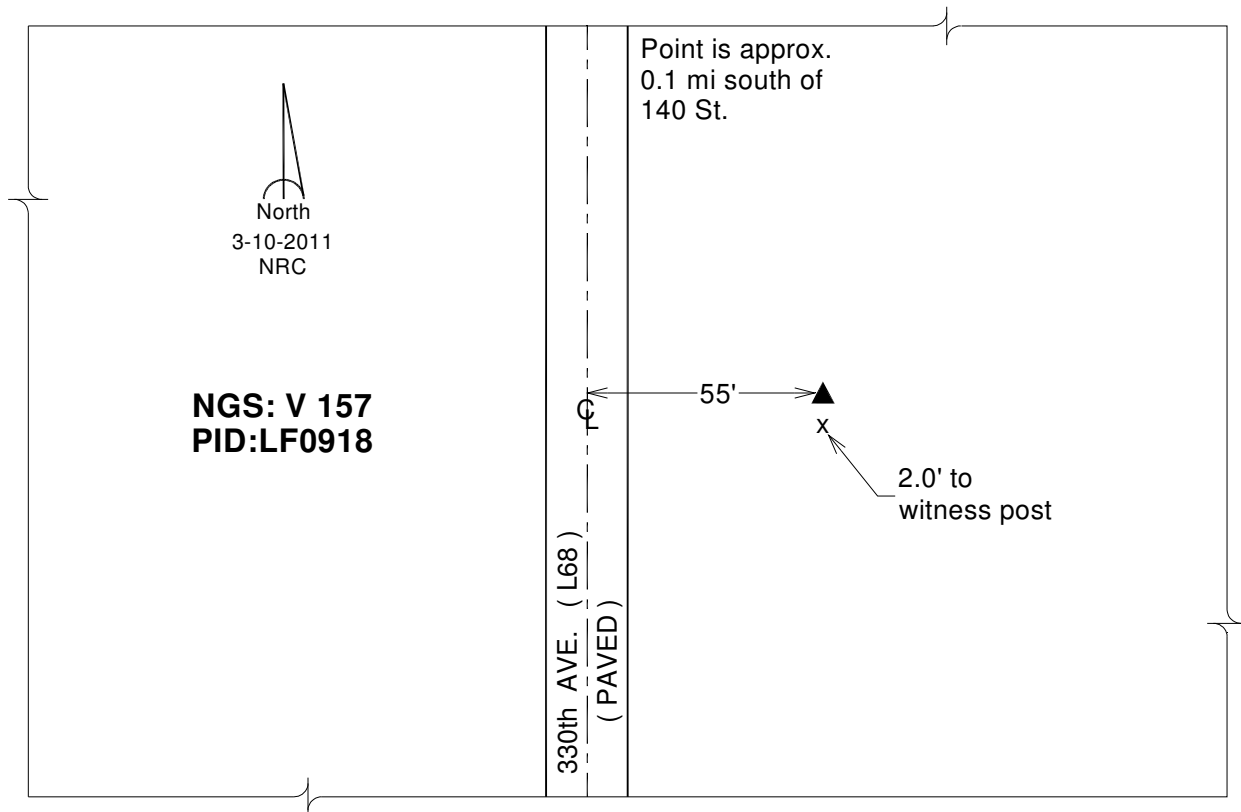
**Designation:** NGS 2nd order vertical "V 157" PID:LF0918

NAD 83(NA2011) Latitude: **N40°50'30.83315"** Longitude: **W95°33'21.68317"**  
NAVD 88 Ortho Height: **981.760sft** Ellip. Ht: **884.453sft** **Geoid12A**

Iowa South Zone (1402) Northing: **313452.117sft** Easting: **1071602.649sft**  
Mapping Angle: **-1°21'15"** Combination Scale Factor: **0.999925683**

IaRCS Zone 6 Northing: **6815698.732sft** Easting: **16549062.257sft**  
Mapping Angle: **0°06'57"** Combination Scale Factor: **0.999999545**

**Monument Type:** The station is a bench mark disk stamped "V 157 1949" and set in the top of concrete monument.



**Fremont County, Iowa**  
Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **2017**

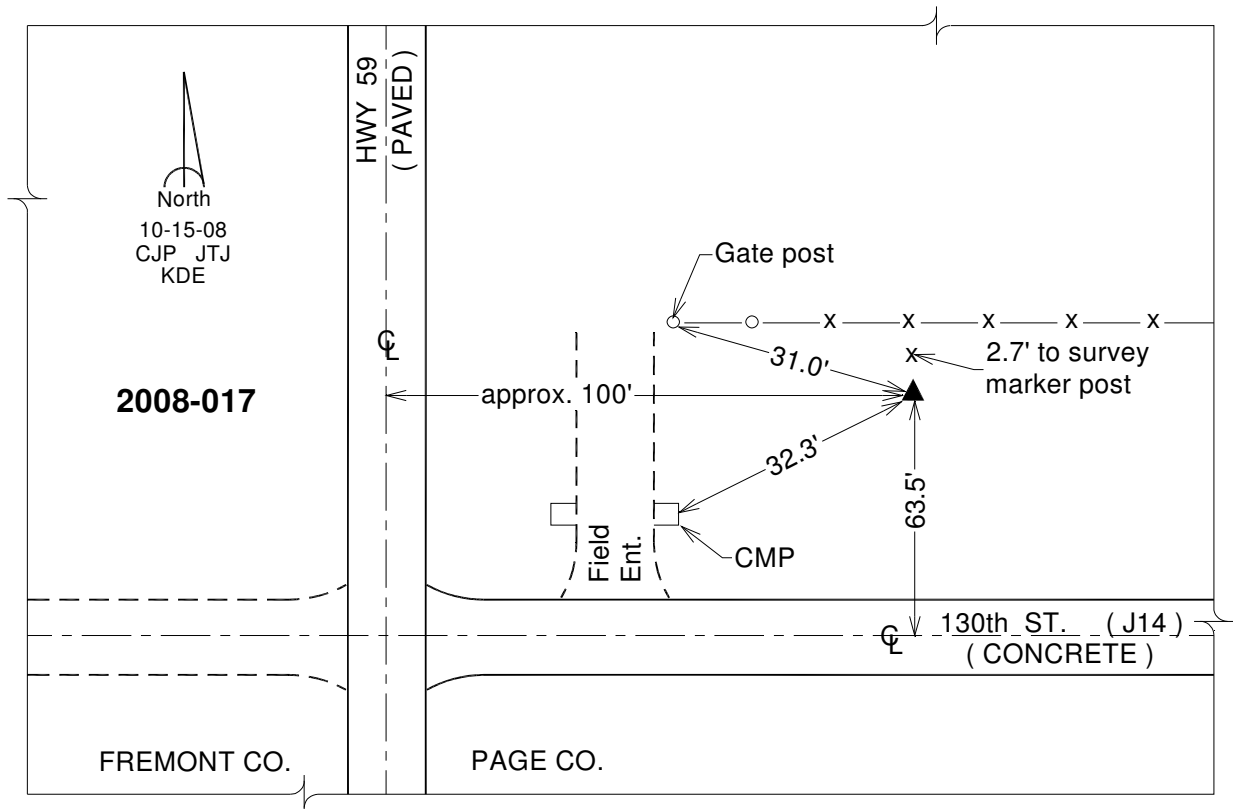
**Designation:** 2008-017 Page Co GPS Control Pt (Set by DCI in 2008)

NAD 83(NA2011) Latitude: **N40°51'29.78767"** Longitude: **W95°23'02.91600"**  
NAVD 88 Ortho Height: **1116.570sft** Ellip. Ht: **1017.723sft** **Geoid12A**

Iowa South Zone (1402) Northing: **318340.031sft** Easting: **1119275.910sft**  
Mapping Angle: **-1°14'28"** Combination Scale Factor: **0.999917586**

laRCS Zone 6 Northing: **6821808.409sft** Easting: **16596598.169sft**  
Mapping Angle: **0°13'42"** Combination Scale Factor: **1.000001099**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
 Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane South Zone (1402)  
 Iowa Regional Coordinate System Zone 6 Council Bluffs  
 US Survey Feet  
**2015**

Point Name: **2018**

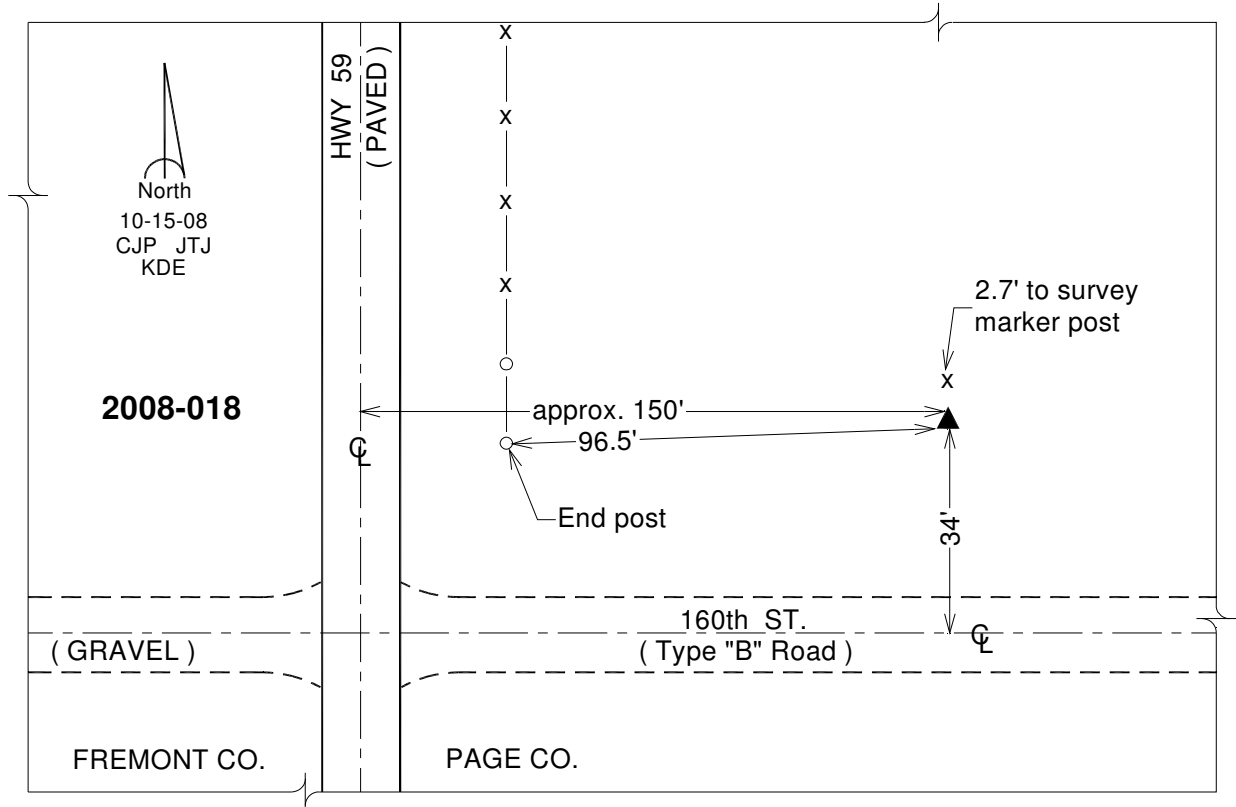
**Designation:** 2008-018 Page Co GPS Control Pt (Set by DCI in 2008)

NAD 83(NA2011) Latitude: **N40°48'53.10624"** Longitude: **W95°23'02.54722"**  
 NAVD 88 Ortho Height: **1094.710sft** Ellip. Ht: **995.259sft** **Geoid12A**

Iowa South Zone (1402) Northing: **302486.649sft** Easting: **1118960.817sft**  
 Mapping Angle: **-1°14'28"** Combination Scale Factor: **0.999923456**

IaRCS Zone 6 Northing: **6805950.873sft** Easting: **16596689.723sft**  
 Mapping Angle: **0°13'42"** Combination Scale Factor: **1.000002192**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **2035**

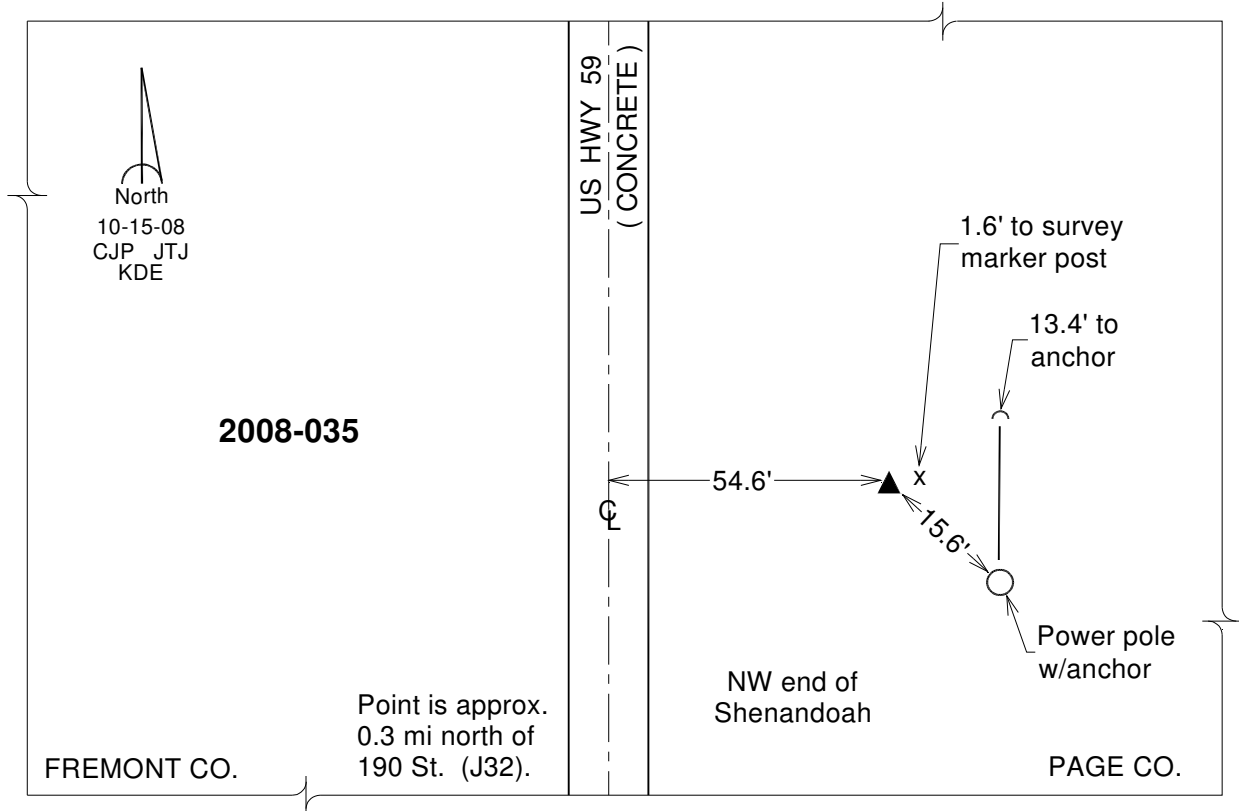
**Designation:** 2008-035 Page Co GPS Control Pt (Set by DCI in 2008)

NAD 83(NA2011) Latitude: **N40°46'32.76627"** Longitude: **W95°23'04.81394"**  
NAVD 88 Ortho Height: **960.410sft** Ellip. Ht: **860.558sft** **Geoid12A**

Iowa South Zone (1402) Northing: **288291.093sft** Easting: **1118478.867sft**  
Mapping Angle: **-1°14'29"** Combination Scale Factor: **0.999934666**

IaRCS Zone 6 Northing: **6791746.542sft** Easting: **16596571.899sft**  
Mapping Angle: **0°13'40"** Combination Scale Factor: **1.000008593**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **2036**

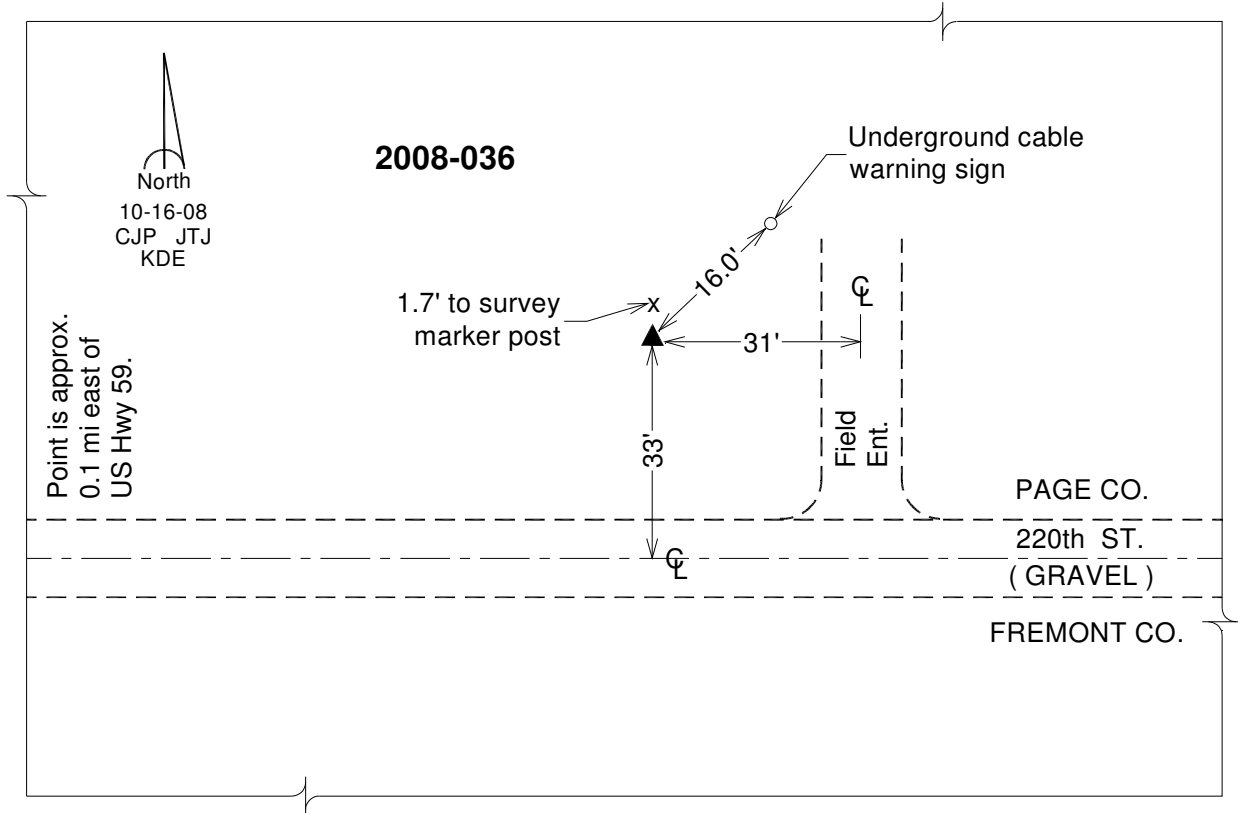
**Designation:** 2008-036 Page Co GPS Control Pt (Set by DCI in 2008)

NAD 83(NA2011) Latitude: **N40°43'42.01389"** Longitude: **W95°23'02.86650"**  
NAVD 88 Ortho Height: **1068.940sft** Ellip. Ht: **968.771sft** **Geoid12A**

Iowa South Zone (1402) Northing: **271011.478sft** Easting: **1118254.375sft**  
Mapping Angle: **-1°14'28"** Combination Scale Factor: **0.999935940**

IaRCS Zone 6 Northing: **6774465.628sft** Easting: **16596790.489sft**  
Mapping Angle: **0°13'40"** Combination Scale Factor: **1.000003478**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **2053**

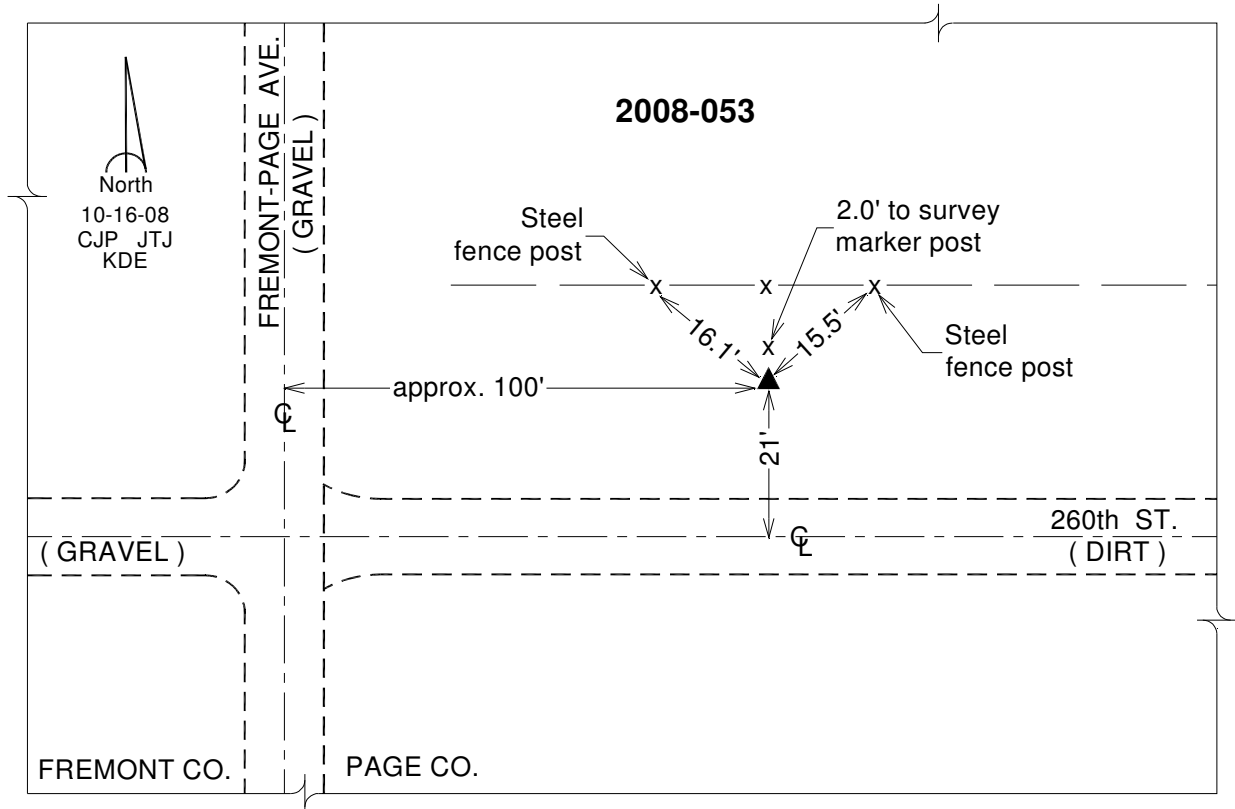
**Designation:** 2008-053 Page Co GPS Control Pt (Set by DCI in 2008)

NAD 83(NA2011) Latitude: **N40°40'11.80446"** Longitude: **W95°22'22.41249"**  
NAVD 88 Ortho Height: **1179.250sft** Ellip. Ht: **1078.824sft** **Geoid12A**

Iowa South Zone (1402) Northing: **249675.644sft** Easting: **1120910.125sft**  
Mapping Angle: **-1°14'01"** Combination Scale Factor: **0.999939545**

laRCS Zone 6 Northing: **6753203.524sft** Easting: **16599992.445sft**  
Mapping Angle: **0°14'06"** Combination Scale Factor: **0.999998946**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
 Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane South Zone (1402)  
 Iowa Regional Coordinate System Zone 6 Council Bluffs  
 US Survey Feet  
**2015**

Point Name: **2054**

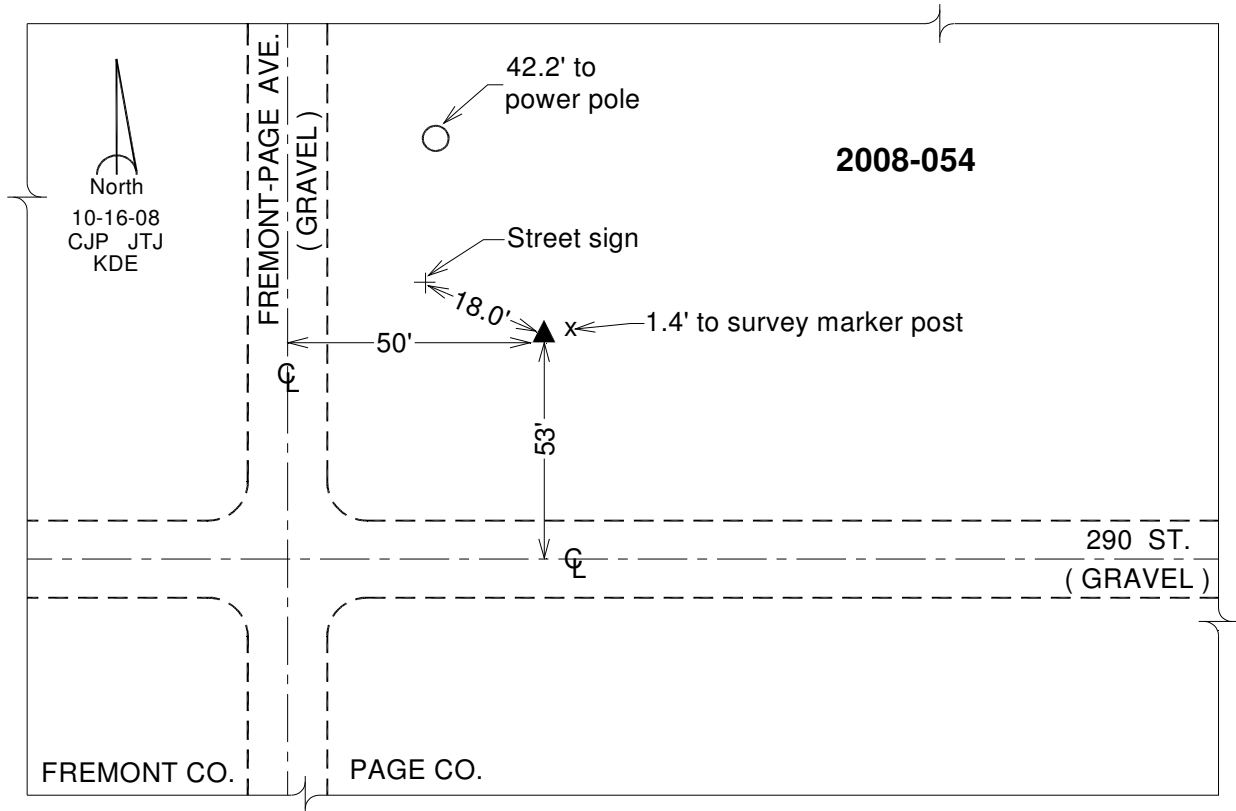
**Designation:** 2008-054 Page Co GPS Control Pt (Set by DCI in 2008)

NAD 83(NA2011) Latitude: **N40°37'34.47346"** Longitude: **W95°22'25.42888"**  
 NAVD 88 Ortho Height: **1137.980sft** Ellip. Ht: **1037.513sft** **Geoid12A**

Iowa South Zone (1402) Northing: **233762.223sft** Easting: **1120334.789sft**  
 Mapping Angle: **-1°14'03"** Combination Scale Factor: **0.999948816**

IaRCS Zone 6 Northing: **6737279.697sft** Easting: **16599825.101sft**  
 Mapping Angle: **0°14'03"** Combination Scale Factor: **1.000000880**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



*This document was prepared by DCI on January 9, 2015 for use by Fremont County, Iowa*

**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **2071**

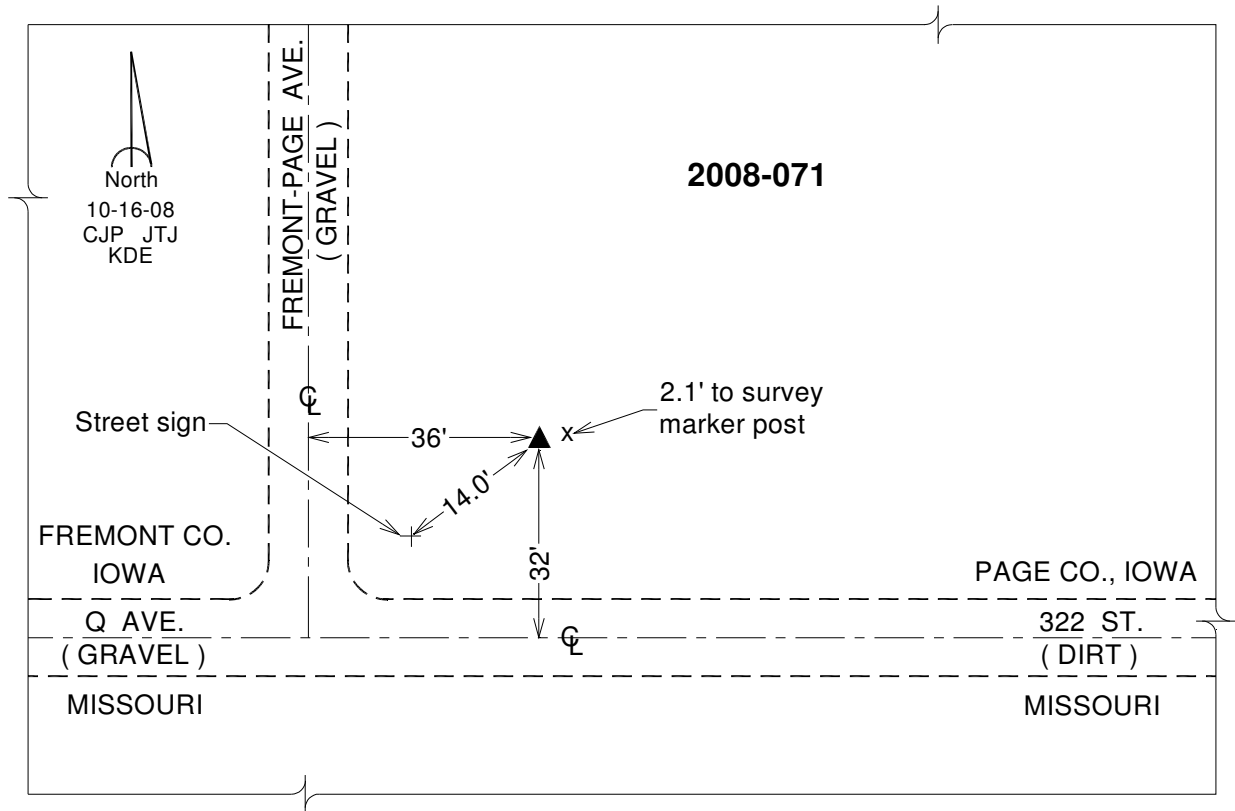
**Designation:** 2008-071 Page Co GPS Control Pt (Set by DCI in 2008)

NAD 83(NA2011) Latitude: **N40°34'49.92384"** Longitude: **W95°22'25.74428"**  
NAVD 88 Ortho Height: **1015.890sft** Ellip. Ht: **915.403sft** **Geoid12A**

Iowa South Zone (1402) Northing: **217113.955sft** Easting: **1119951.766sft**  
Mapping Angle: **-1°14'03"** Combination Scale Factor: **0.999962892**

IaRCS Zone 6 Northing: **6720626.282sft** Easting: **16599868.789sft**  
Mapping Angle: **0°14'02"** Combination Scale Factor: **1.000006716**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **3052**

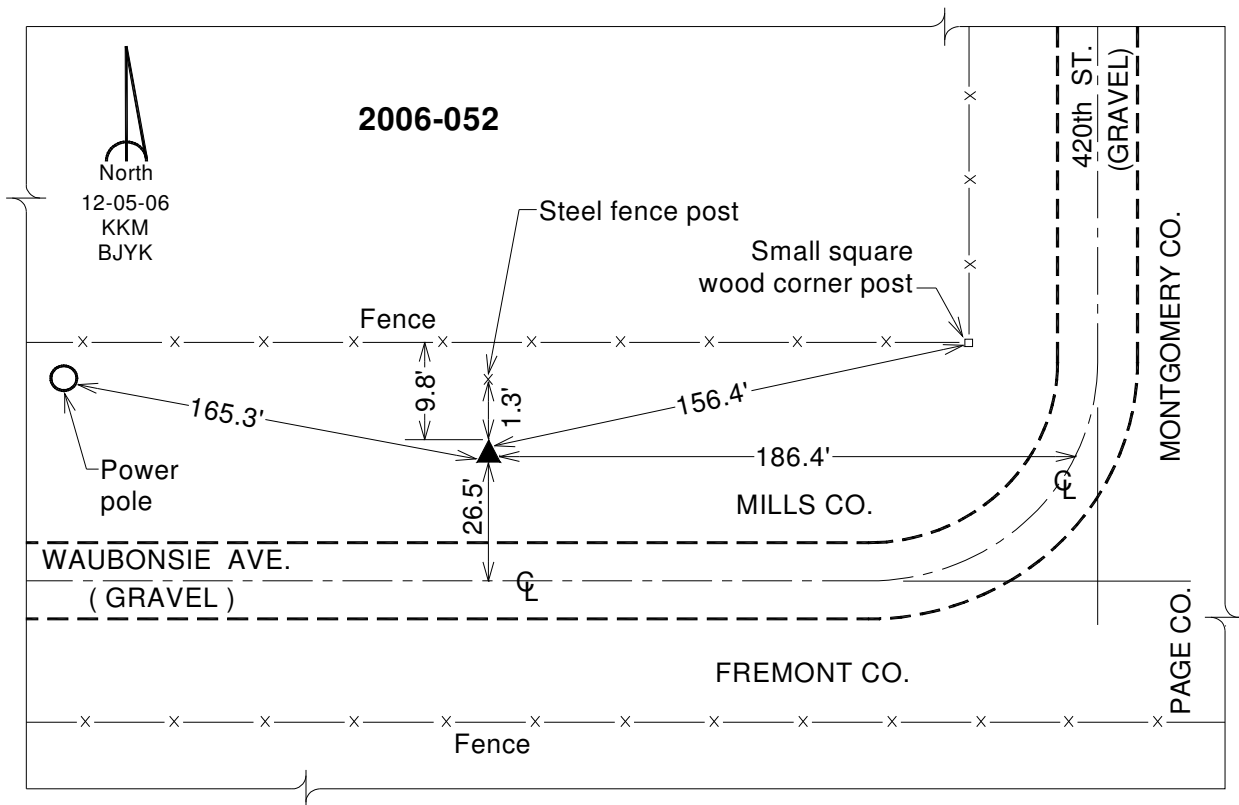
**Designation:** 2006-052 Mills Co (2010 Fremont Co. GPS observations)

NAD 83(NA2011) Latitude: **N40°54'05.59472"** Longitude: **W95°23'07.38980"**  
NAVD 88 Ortho Height: **1021.750sft** Ellip. Ht: **923.723sft** **Geoid12A**

Iowa South Zone (1402) Northing: **334111.822sft** Easting: **1119273.987sft**  
Mapping Angle: **-1°14'31"** Combination Scale Factor: **0.999917866**

IaRCS Zone 6 Northing: **6837576.313sft** Easting: **16596191.712sft**  
Mapping Angle: **0°13'40"** Combination Scale Factor: **1.000005495**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



*This document was prepared by DCI on January 9, 2015 for use by Fremont County, Iowa*

**Fremont County, Iowa**  
 Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane South Zone (1402)  
 Iowa Regional Coordinate System Zone 6 Council Bluffs  
 US Survey Feet  
**2015**

Point Name: **3053**

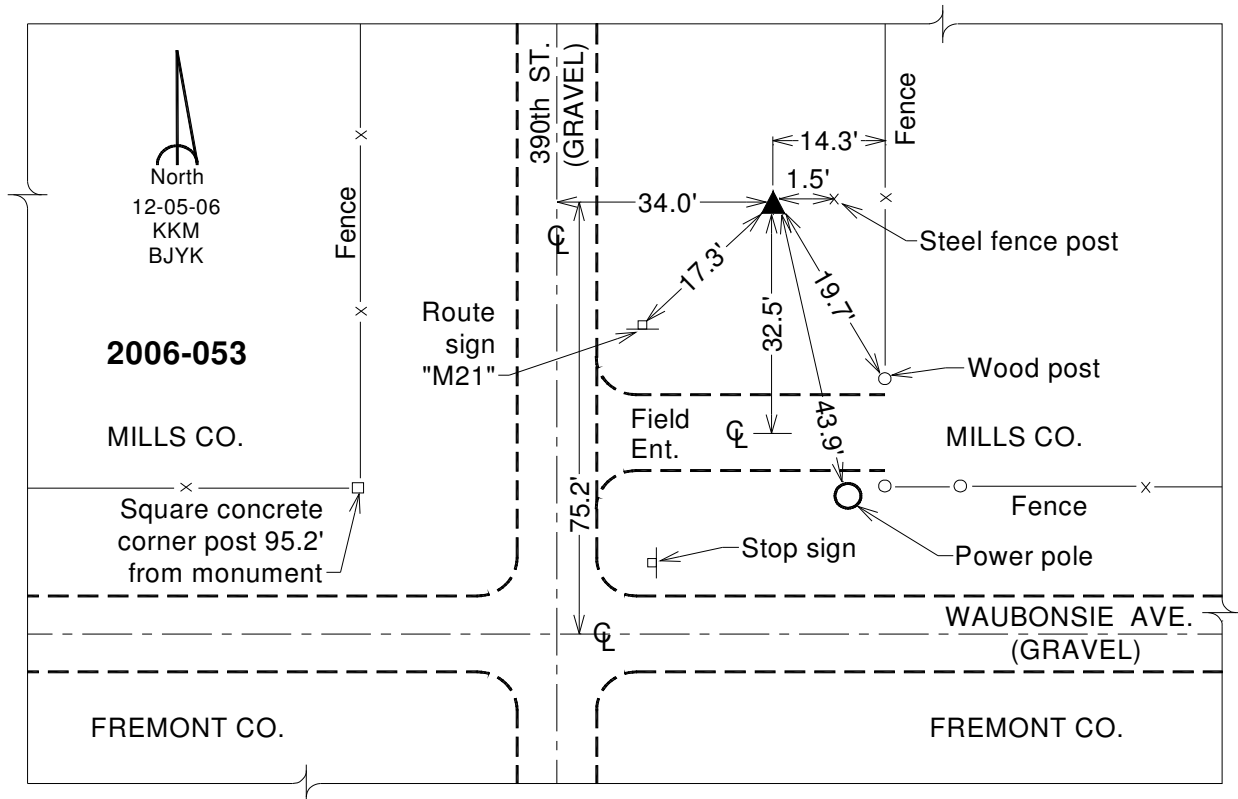
**Designation:** 2006-053 Mills Co (2010 Fremont Co. GPS observations)

NAD 83(NA2011) Latitude: **N40°54'06.29393"** Longitude: **W95°26'30.04519"**  
 NAVD 88 Ortho Height: **1130.900sft** Ellip. Ht: **1033.521sft** **Geoid12A**

Iowa South Zone (1402) Northing: **334524.871sft** Easting: **1103718.027sft**  
 Mapping Angle: **-1°16'44"** Combination Scale Factor: **0.999912610**

IaRCS Zone 6 Northing: **6837590.205sft** Easting: **16580628.937sft**  
 Mapping Angle: **0°11'27"** Combination Scale Factor: **0.999997111**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



*This document was prepared by DCI on January 9, 2015 for use by Fremont County, Iowa*



**Fremont County, Iowa**  
 Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
 Iowa State Plane South Zone (1402)  
 Iowa Regional Coordinate System Zone 6 Council Bluffs  
 US Survey Feet  
**2015**

Point Name: **3054**

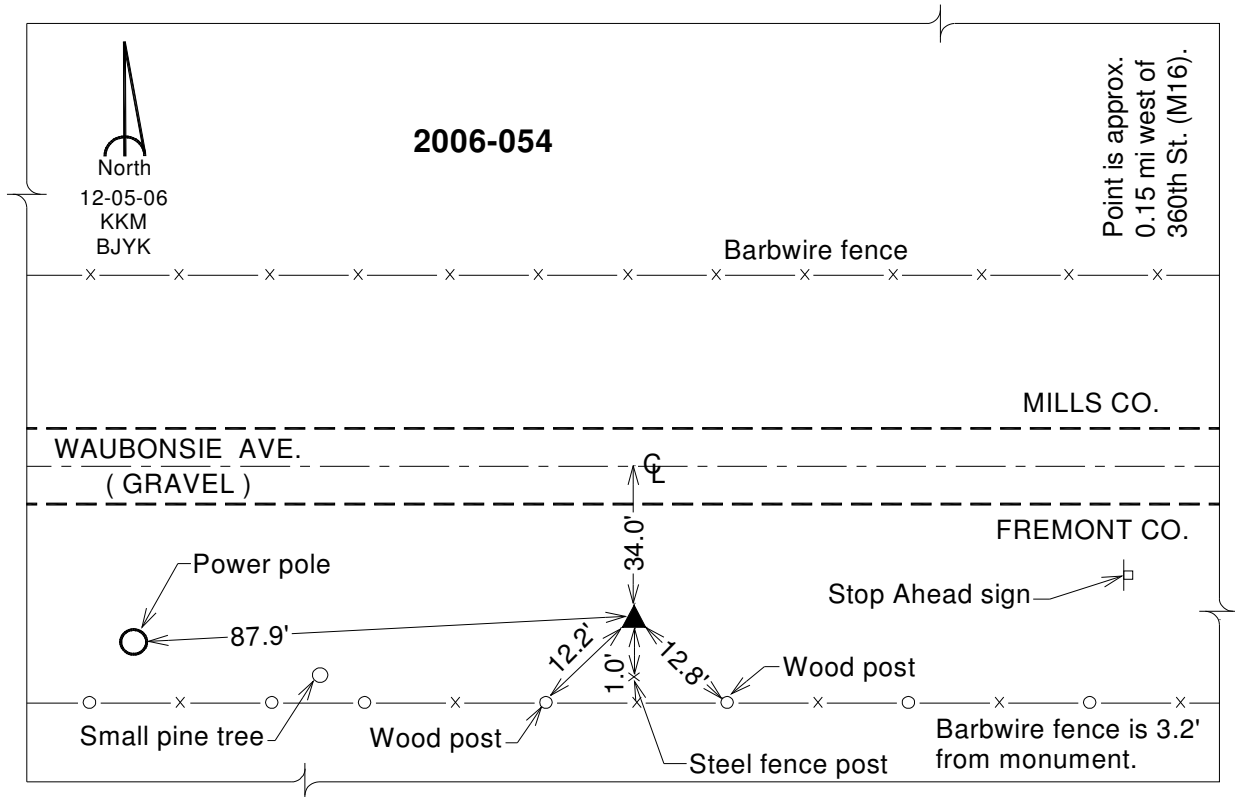
**Designation:** 2006-054 Mills Co (2010 Fremont Co. GPS observations)

NAD 83(NA2011) Latitude: **N40°54'05.47296"** Longitude: **W95°30'09.47605"**  
 NAVD 88 Ortho Height: **1077.710sft** Ellip. Ht: **981.031sft** **Geoid12A**

Iowa South Zone (1402) Northing: **334823.800sft** Easting: **1086871.051sft**  
 Mapping Angle: **-1°19'09"** Combination Scale Factor: **0.999915135**

IaRCS Zone 6 Northing: **6837456.820sft** Easting: **16563778.437sft**  
 Mapping Angle: **0°09'04"** Combination Scale Factor: **0.999996835**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **3055 (RESET by Mills Co. in 2013)**

**Designation:** 2006-055 Mills Co (2010 Fremont Co. GPS observations)

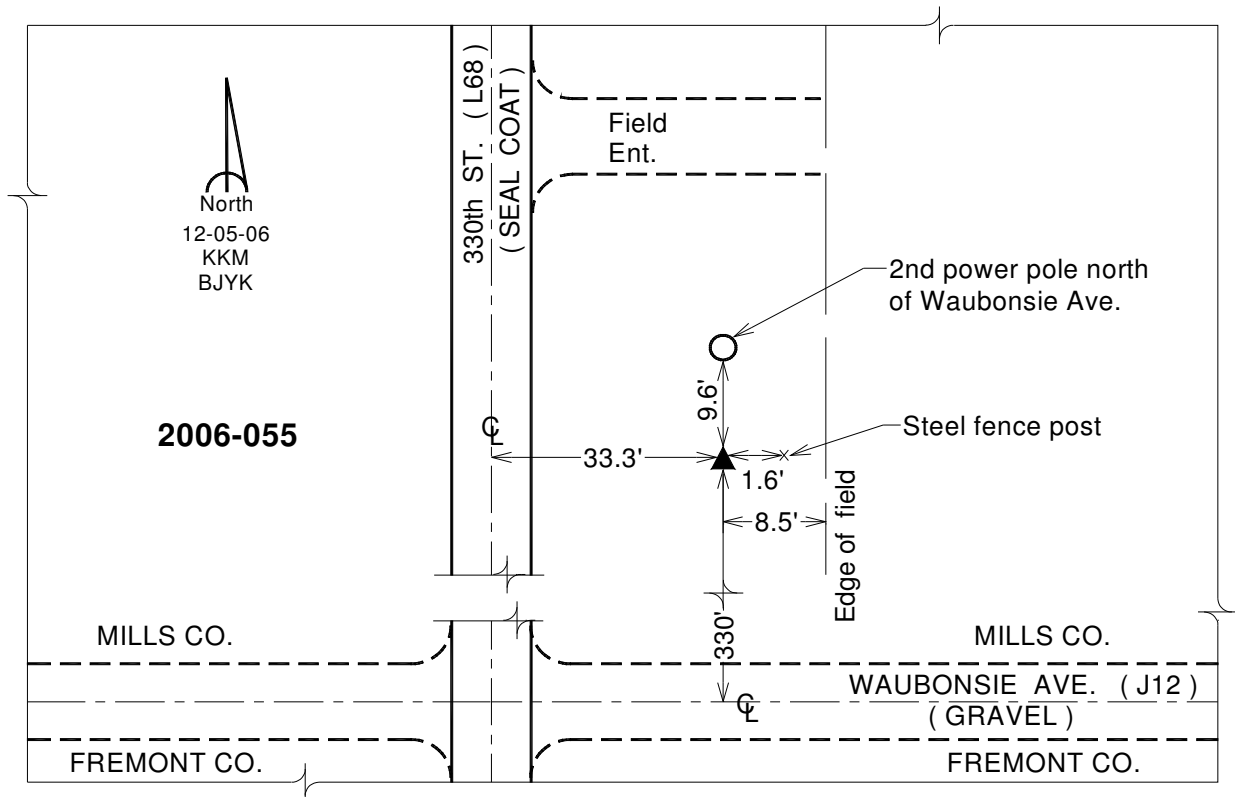
NAD 83(NA2011) Latitude: **N40°54'09.06586"** Longitude: **W95°33'22.38895"**  
NAVD 88 Ortho Height: **977.930sft** Ellip. Ht: **881.945sft** **Geoid12A**

**Note: See the Mills Co. 2013 Report for current height values.**

Iowa South Zone (1402) Northing: **335532.890sft** Easting: **1072070.462sft**  
Mapping Angle: **-1°21'16"** Combination Scale Factor: **0.999919773**

laRCS Zone 6 Northing: **6837785.939sft** Easting: **16548963.331sft**  
Mapping Angle: **0°06'57"** Combination Scale Factor: **0.999999654**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **3056**

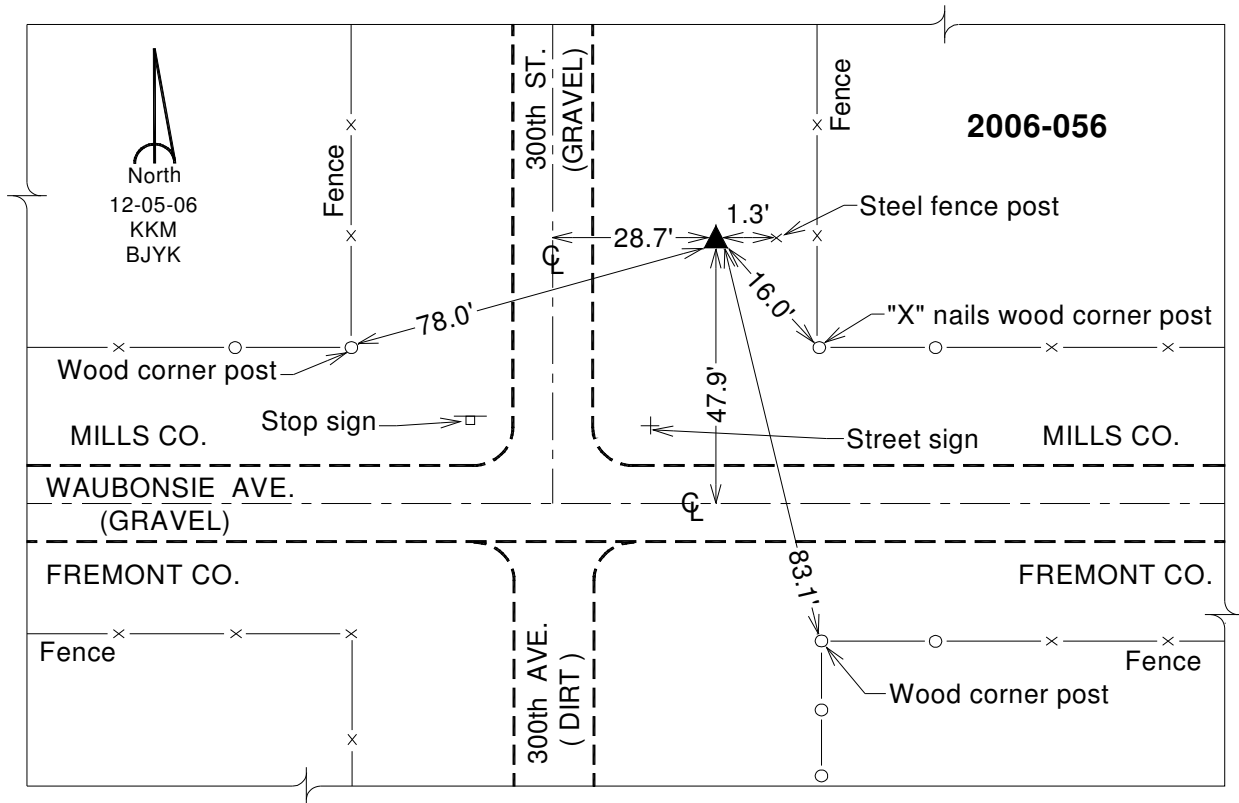
**Designation:** 2006-056 Mills Co (2010 Fremont Co. GPS observations)

NAD 83(NA2011) Latitude: **N40°54'06.24958"** Longitude: **W95°36'50.91168"**  
NAVD 88 Ortho Height: **1097.630sft** Ellip. Ht: **1002.485sft** **Geoid12A**

Iowa South Zone (1402) Northing: **335631.757sft** Easting: **1056056.529sft**  
Mapping Angle: **-1°23'33"** Combination Scale Factor: **0.999914092**

IaRCS Zone 6 Northing: **6837473.791sft** Easting: **16532950.869sft**  
Mapping Angle: **0°04'41"** Combination Scale Factor: **0.999992403**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **3057**

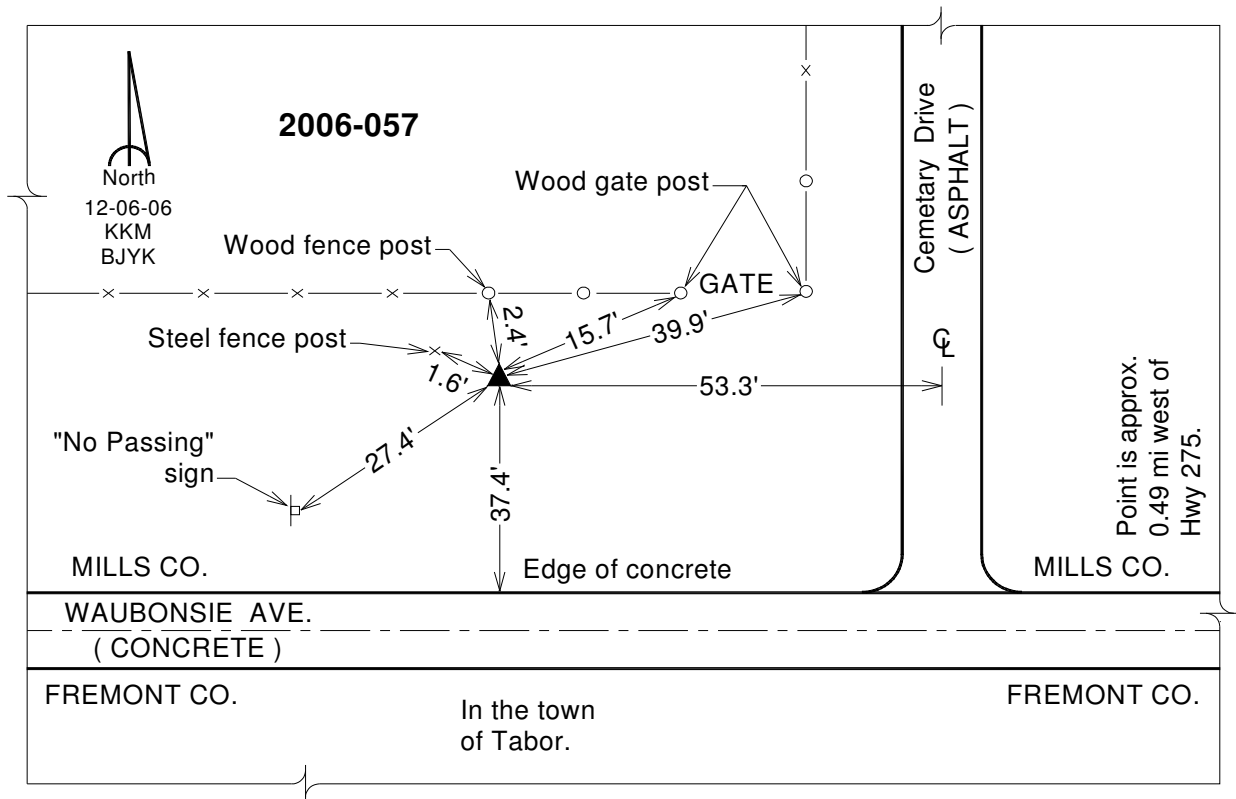
**Designation:** 2006-057 Mills Co (2010 Fremont Co. GPS observations)

NAD 83(NA2011) Latitude: **N40°54'05.66973"** Longitude: **W95°40'51.81173"**  
NAVD 88 Ortho Height: **1229.070sft** Ellip. Ht: **1134.980sft** **Geoid12A**

Iowa South Zone (1402) Northing: **336029.759sft** Easting: **1037562.748sft**  
Mapping Angle: **-1°26'12"** Combination Scale Factor: **0.999907785**

IaRCS Zone 6 Northing: **6837396.979sft** Easting: **16514451.527sft**  
Mapping Angle: **0°02'03"** Combination Scale Factor: **0.999985079**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **3058**

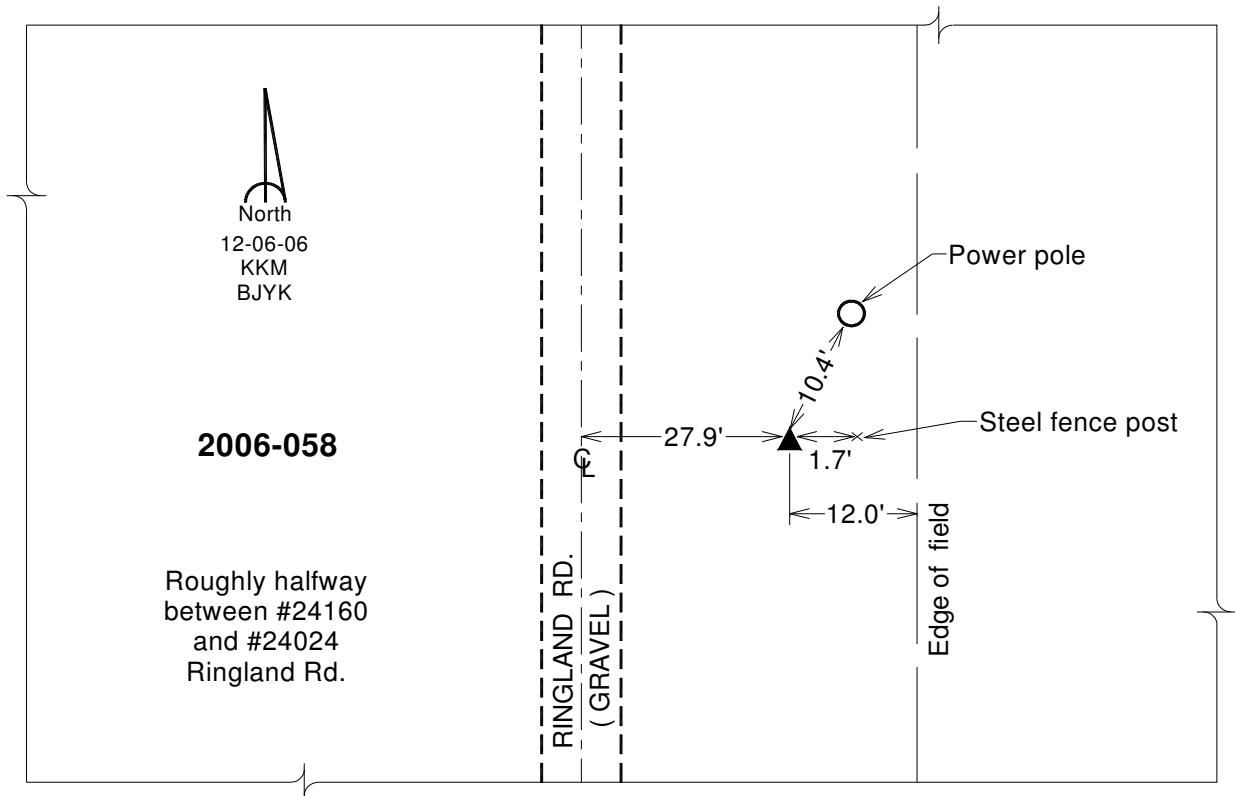
**Designation:** 2006-058 Mills Co (2010 Fremont Co. GPS observations)

NAD 83(NA2011) Latitude: **N40°54'10.00585"** Longitude: **W95°43'08.20575"**  
NAVD 88 Ortho Height: **1159.760sft** Ellip. Ht: **1066.248sft** **Geoid12A**

Iowa South Zone (1402) Northing: **336733.308sft** Easting: **1027104.003sft**  
Mapping Angle: **-1°27'42"** Combination Scale Factor: **0.999910955**

IaRCS Zone 6 Northing: **6837831.850sft** Easting: **16503977.359sft**  
Mapping Angle: **0°00'34"** Combination Scale Factor: **0.999988138**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**

Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **3059**

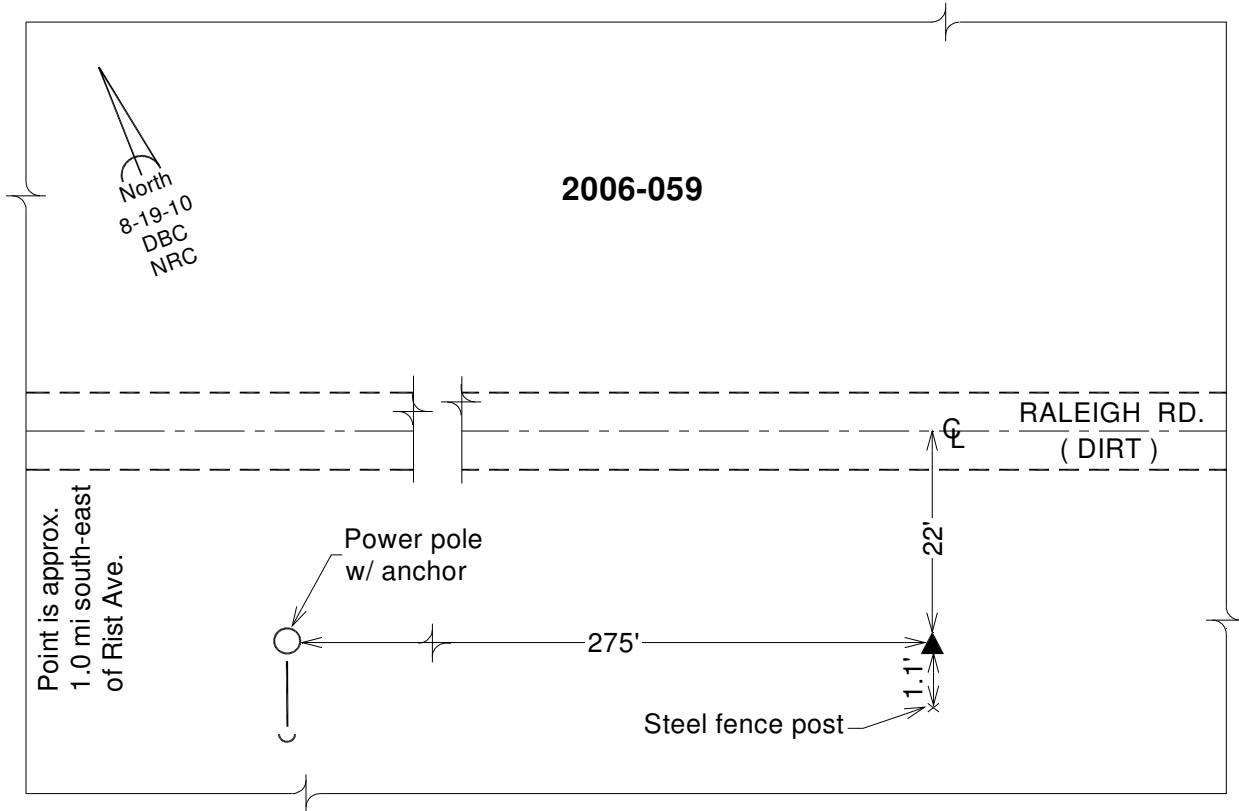
**Designation:** 2006-059 Mills Co (2010 Fremont Co. GPS observations)

NAD 83(NA2011) Latitude: **N40°54'13.29375"** Longitude: **W95°45'25.78791"**  
NAVD 88 Ortho Height: **954.000sft** Ellip. Ht: **861.062sft** **Geoid12A**

Iowa South Zone (1402) Northing: **337337.728sft** Easting: **1016551.805sft**  
Mapping Angle: **-1°29'12"** Combination Scale Factor: **0.999920663**

IaRCS Zone 6 Northing: **6838165.189sft** Easting: **16493412.306sft**  
Mapping Angle: **-0°00'56"** Combination Scale Factor: **0.999997960**

**Monument Type:** Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



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**Fremont County, Iowa**  
Horizontal Datum: **NAD 83(2011)** - Vertical Datum: **NAVD 1988**  
Iowa State Plane South Zone (1402)  
Iowa Regional Coordinate System Zone 6 Council Bluffs  
US Survey Feet  
**2015**

Point Name: **3060 (Destroyed)**

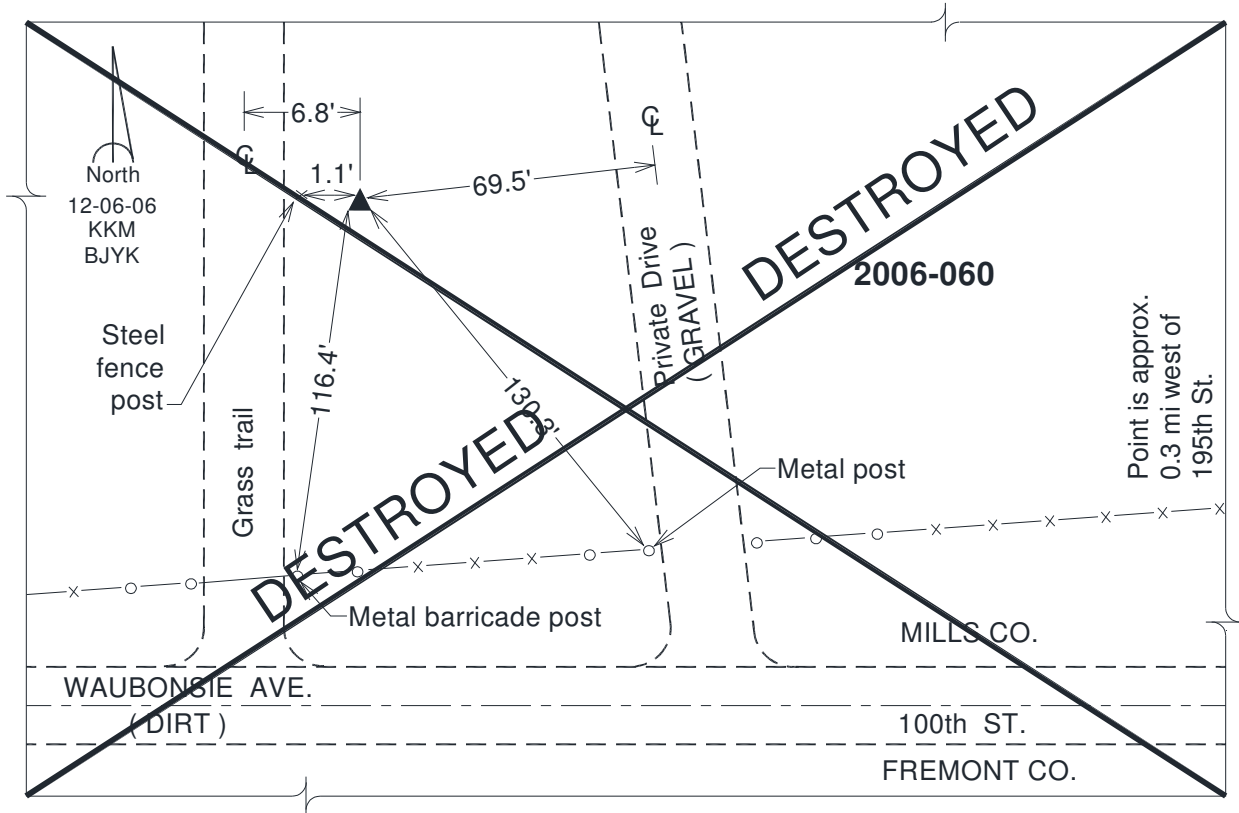
**Designation:** ~~2006-060 Mills Co (2010 Fremont Co. GPS observations)~~

NAD 83(NA2011) Latitude: ~~**N40°54'06.76808"**~~ Longitude: ~~**W95°48'35.52435"**~~  
NAVD 88 Ortho Height: ~~**954.630**sft~~ Ellip. Ht: ~~**862.415**sft~~ **Geoid12A**

Iowa South Zone (1402) Northing: ~~**337059.970**sft~~ Easting: ~~**1001970.464**sft~~  
Mapping Angle: ~~**-1°31'17"**~~ Combination Scale Factor: ~~**0.999920762**~~

IaRCS Zone 6 Northing: ~~**6837513.080**sft~~ Easting: ~~**16478841.776**sft~~  
Mapping Angle: ~~**-0°03'00"**~~ Combination Scale Factor: ~~**0.999998358**~~

**Monument Type:** ~~Berntsen 3/4" Top Security Rod Monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.~~



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