GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
THE SIDWELL COMPANY
WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
COUNTY ENGINEER
GRUNDY COUNTY, IOWA

DESIGNATION 94-005 GPS No. 7070 COUNTY BLACK HAWK STATE IOWA

LOCATED IN SECTION 31 TWP 89N RGE 14W USGS QUAD MAP ZANETA

TO REACH FROM THE INTERSECTION OF 160TH STREET (U.S. 20) AND BUTLER ROAD; GO NORTH 0.1 MILE TO MARK AT CREST OF HILL.

CAP IS STAMPED "GPS CONTROL PT. 94-005"

MARK 2-1/2" BLACK HAWK CO. ALUM. CAP ON ALUM. ROD IN 5" PVC PIPE CASING WITH ALUM. ACCESS COVER

☒ MARK EXISTING ☐ VALUES AS PUBLISHED BY

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

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

IOWA COORDINATE SYSTEM, NORTH ZONE

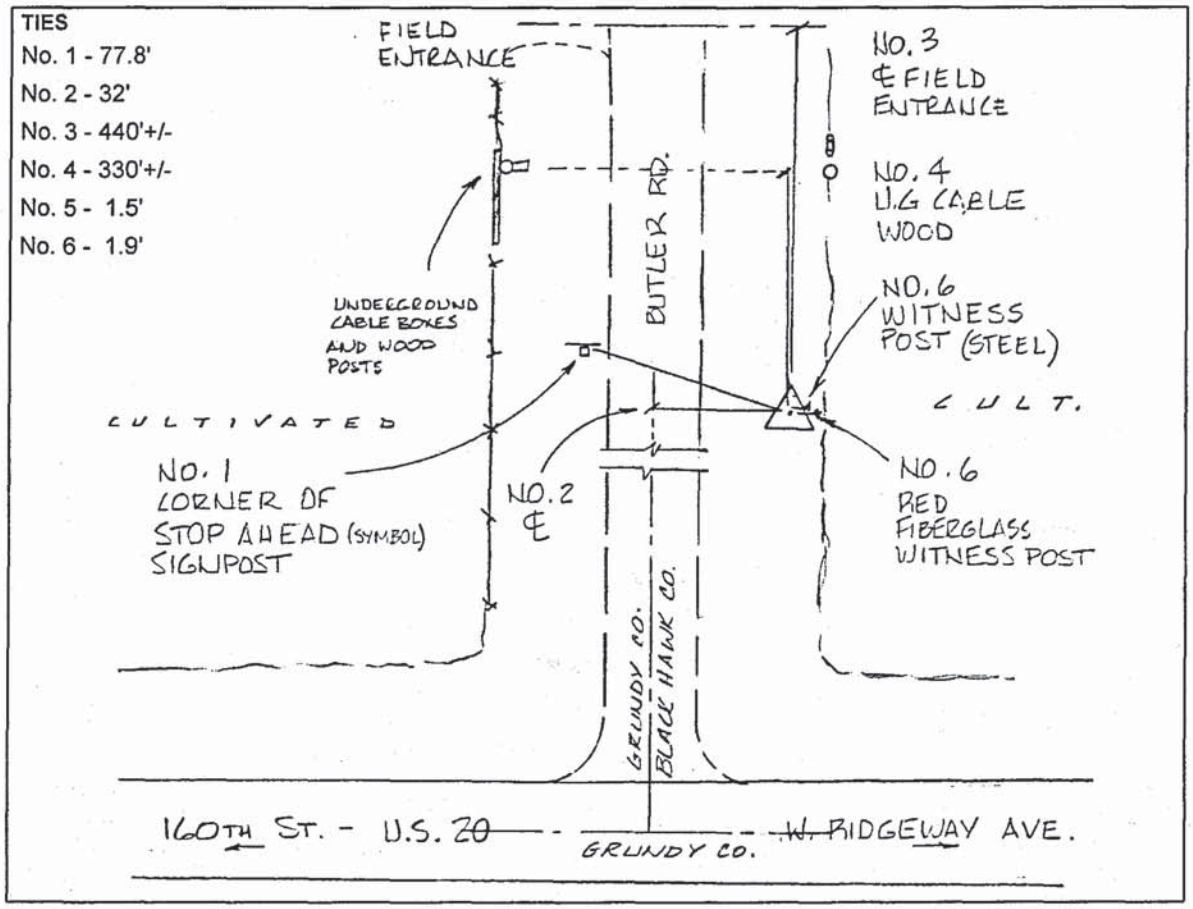
SCALE FACTOR: 0.99995123

COORDINATES (US FEET)		COORDINATES (METERS)	
NORTHING (Y)	3636086.59	NORTHING (Y)	1108281.408
EASTING (X)	5176413.84	EASTING (X)	1577774.095

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

ELEVATION (US FEET) 1015.98 ELEVATION (METERS) 309.671

TIES
No. 1 - 77.8'
No. 2 - 32'
No. 3 - 440'+/-
No. 4 - 330'+/-
No. 5 - 1.5'
No. 6 - 1.9'



SECTION

SKETCH BY DSW

DENI 9701008