

**GPS SURVEY MARK DESCRIPTION**

GIS MAPPING BY:  
 THE SIDWELL COMPANY  
 WEST CHICAGO, ILLINOIS

THE OFFICE OF THE  
 COUNTY ENGINEER  
 DICKINSON COUNTY, IOWA

DESIGNATION 993615 3 GPS NO. 8034 COUNTY DICKINSON STATE IOWA  
 LOCATED IN SECTION 15 TWP 99 N RANGE 36 W USGS QUAD MAP SPIRIT LAKE  
 TO REACH THE STATION FROM \_\_\_\_\_  
 THE INTERSECTION OF 182ND STREET AND 242 AVENUE, HEAD NORTHWEST ON 182ND STREET TO THE STATION  
 STATION ON THE RIGHT. \_\_\_\_\_

MARK BERNTSEN MONUMENT WITH 2-1/2" ALUMINIUM DISK ON ROD WITH 6" ACCESS COVER

MARK EXISTING  VALUES AS PUBLISHED BY \_\_\_\_\_  
 MARK SET  VALUES ESTABLISHED BY Patrick Engineering Inc. DATE August, 2002

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.

LATITUDE NORTH 43° 23' 14.092094"  
 LONGITUDE WEST 95° 05' 48.310166"  
 ELLIPSOID HEIGHT (meter) 402.973 \* (Based on GEOID99 Model)

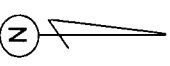
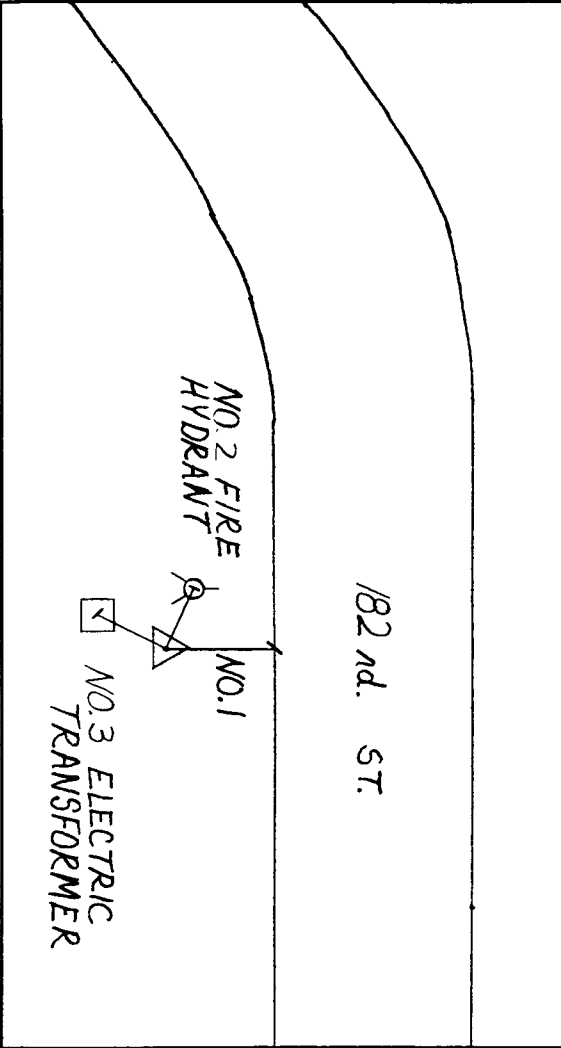
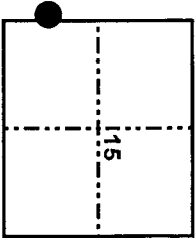
IOWA COORDINATE SYSTEM, NORTH ZONE  
 CONVERGENCE ANGLE -1° 04' 55.89"  
 SCALE FACTOR 0.999961  
 COORDINATES (US FEET)  
 NORTHING (Y) 3972631.48 NORTHING (METERS) 1210860.497  
 EASTING (X) 4496790.31 EASTING (METERS) 1370624.428

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

ELEVATION (US FEET) 1413.99 ELEVATION (METERS) 430.985

TIES  
 NO. 1 - 29.0'  
 NO. 2 - 4.5'  
 NO. 3 - 22.0'  
 NO. 4 - \_\_\_\_\_

HOUSE # 24766



SKETCH BY CCS  
 PATRICK 09-2002