

MISSOURI GEOGRAPHIC REFERENCE SYSTEM

MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGY AND LAND SURVEY
LAND SURVEY PROGRAM

PO Box 250, Rolla, Missouri 65402, (573) 368-2300

STATION NAME: BU-04

PID: AD9777

COUNTY: Buchanan

STATE: Missouri

TOWNSHIP: 58 NORTH, RANGE: 35 WEST, SECTION: NW 1/4 of 28

USGS 7.5' QUAD: St. Joseph North

DATE MONUMENTED: 1993

MONUMENTED BY: MODNR

TECHNICAL DATA TABLE:

(All data in meters 1 meter = 3.28083333 feet)

HORIZONTAL: NAD 1983**VERTICAL:** NAVD 1988

DATE OF OBSERVATIONS: 1993

DATE OF OBSERVATIONS: 1993

DATE OF ADJUSTMENT: 2000

DATE OF ADJUSTMENT: 1993

ORDER: 1st

ORDER: 3rd

LATITUDE: 39°48'58.77306"

ELEVATION: 303.988

LONGITUDE: 94°50'26.15835"

ELLIPSOID HEIGHT: 272.14

MISSOURI COORDINATE SYSTEM 1983:

NORTH (Y): 405130.740

EAST (X): 820838.798

ZONE: West

CONVERGENCE: -00°13'05"

GRID FACTOR: .9999090

AZIMUTH INFORMATION:

STATION: BU-04

AZIMUTH MARK: BU-04A

GEODETTIC:

ASTRONOMIC: 180°20'55"

GRID: 180°34'00"

REMARKS

The HORIZONTAL POSITION was determined by GPS observations and adjusted by the National Geodetic Survey in February 2000.

The AZIMUTH was determined by observation of Polaris with an estimated accuracy of 1 second of arc.

The ELEVATION was determined by differential leveling using reset procedures from station P 340 by the Missouri Department of Natural Resources in 1993.

The ELLIPSOID HEIGHT was determined by GPS observations referenced to NAD83.

GEOID 99 was used in determining ELLIPSOID HEIGHT.

STATION: BU-04

DESCRIPTION: The station is a standard DNR aluminum GRS disk stamped "BU-04, 1993", set in a 12 inch diameter concrete post flush with the ground surface. The station has an underground mark 0.753 meters below the surface disk. The azimuth mark is a standard DNR aluminum GRS disk stamped "BU-04A, 1993", set in a 12 inch diameter concrete post flush with the ground surface.

STATION, AZIMUTH MARKS AND REFERENCE TIES: The station is located on the west side of the south bound lane of US Highway 59 about 0.55 mile south of the Andrew County line and in the northwest angle of a commercial entrance. It is 55.8 feet west of the edge of Highway 59 pavement; 31.3 feet northwesterly of a punch mark on the end of an 18 inch corrugated metal pipe; 44.5 feet north of center line of the entrance; 29.9 feet north of the northwest corner of the north curb to the entrance; 28.8 feet north of the northerly anchor bolt of a light post and 1.3 feet south of a witness post.

The azimuth mark is 0.3 mile south on the east side of the south bound lane of Highway 59 in the grass median just south of the Green Valley Road crossover. It is 35 feet west of the center of northbound Highway 59; 53.0 feet south of the center of Green Valley Road West; 25.5 feet south-southwest of a nail and shiner in a Yield Sign post at the south nose of the crossover; 38.1 feet northwesterly of a "Do not enter" sign post; and 8.0 feet east of the south bound pavement.

STATION & AZIMUTH MARK TO REACH: To reach the station from the junction of US Highway 59 (St. Joseph Ave.) and Missouri Route K, go north on Highway 59 for 0.1 mile to the station on the left (west) in northwest angle of a commercial entrance on the south bound lane of Highway 59 as described as described.

To reach the azimuth mark from the station go south on Highway 59 for 0.25 mile to mark on left (east) in median just south of Green Valley Road crossover as described.

SPECIAL INFORMATION:

SUPERSEDED SURVEY CONTROL

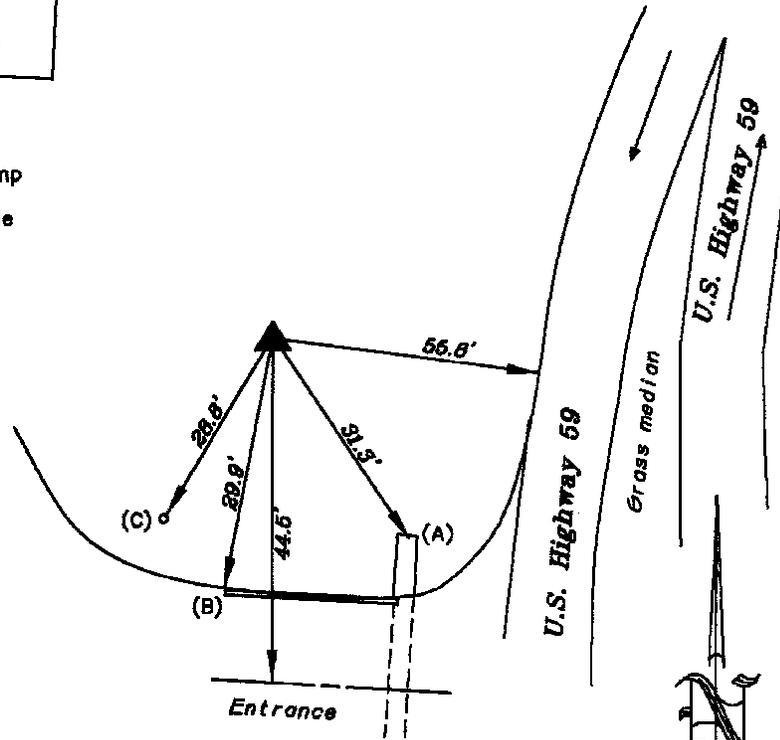
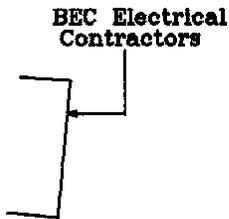
NGS NAD 83(1997)-	39°48'58.77305"(N)	94°50'26.15836"(W)
NGS NAD 83(1997)-	39°48'58.77305"(N)	94°50'26.15837"(W)
NGS NAD 83(1986)-	39°48'58.77571"(N)	94°50'26.15360"(W)
MODNR NAD 83(1986)-	39°48'58.77554"(N)	94°50'26.15355"(W)

DATE of REPORT, 2002

STATION: BU-04

Omega Mini Storage

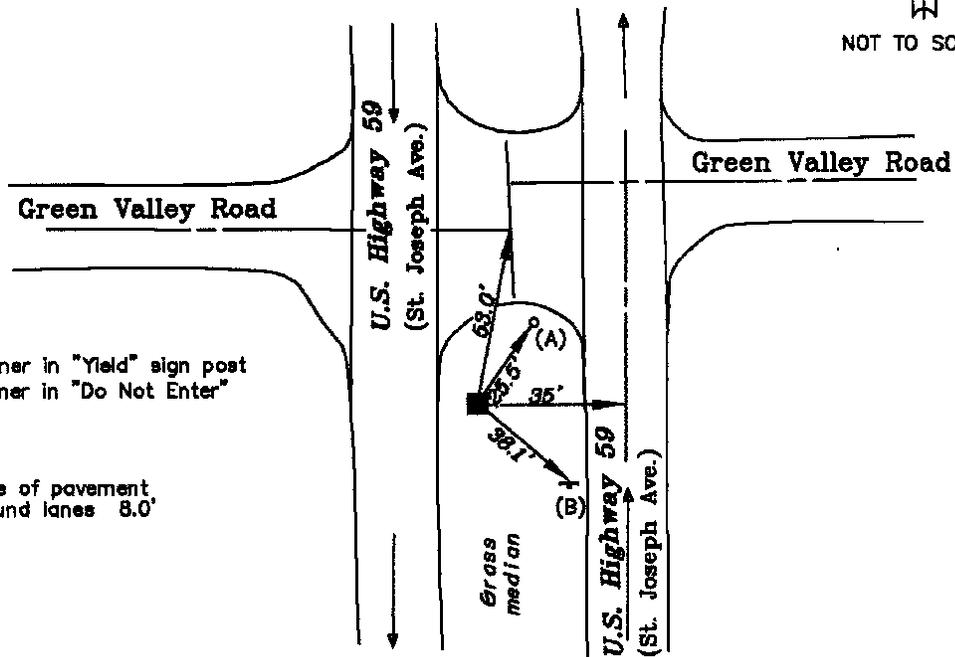
- (A) Punch mark in 18" cmp
- (B) NW corner north curb
- (C) North bolt in light pole



AZIMUTH MARK: BU-04A



NOT TO SCALE



- (A) Nail & shiner in "Yield" sign post
- (B) Nail & shiner in "Do Not Enter" sign post

East edge of pavement south bound lanes 8.0'

DATE OF SKETCH 2001



STATION: BU-04 (LOOKING EAST)



STATION: BU-04 (LOOKING WEST)