

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-08

PID: AD9781

COUNTY: Buchanan

STATE: Missouri

TOWNSHIP: 57 NORTH, RANGE: 34 WEST, SECTION: NE 1/4 OF 20

USGS 7.5' QUAD: Agency

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: 2001

DATE OF OBSERVATIONS: 2001

DATE OF ADJUSTMENT: 2000

DATE OF ADJUSTMENT: 2000

ORDER: 1st

ORDER:

LATITUDE: 39°44'51.99652"

ELEVATION: 258.1

LONGITUDE: 94°44'07.17402"

ELLIPSOID HEIGHT: 226.02

MISSOURI COORDINATE SYSTEM 1983:

NORTH (Y): 397491.138

EAST (X): 829832.031

ZONE: West

CONVERGENCE: -00°09'02"

GRID FACTOR: .9999107

AZIMUTH INFORMATION:

STATION: BU-08

AZIMUTH MARK: BU-08

GEODETTIC:

ASTRONOMIC: 90°31'33"

GRID: 90°40'35"

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 GPS observations.

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

GEOID 99 was used in determining ELEVATION and ELLIPSOID HEIGHT.

STATION: BU-08

DESCRIPTION: The station is a standard DNR aluminum GRS disk stamped "BU-08, 1993", set in a 12 inch diameter concrete post flush with the ground surface. The station has an underground mark 0.756 meters below the surface disk. The azimuth mark is a standard DNR aluminum GRS disk stamped "BU-08A, 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 south side of US Highway 36 about 1 mile east of the St. Joseph City Limits. It is 15.4 feet south of the south edge of the east bound pavement; 16.2 feet southwest of a #4 rebar at the south edge of pavement; 32.5 feet west of the most easterly airplane blocks on the pavement; 16.1 feet southeast of cotton picker spindle at the south edge of pavement and 27.0 feet north of a carsonite witness post.

The azimuth mark is about 0.35 mile east of the station and on the south side of the eastbound lane behind the guardrail at the southwest corner of the bridge over the Platte River. It is 16.4 feet south of the south edge of pavement; 6.3 feet south of the southwest corner of the concrete approach slab; 11.3 feet west of the southwest corner of a drain basin; 6.7 feet southeast of the southeast corner of a guardrail post and 9.5 feet west of the north leg of a weight limit sign with a witness sticker.

STATION & AZIMUTH MARK TO REACH: To reach the station from the overpass intersection of U.S. Highway 36 and Missouri Route AC, go east on Highway 36 for 1.8 mile to the station on right (south) side as described.

To reach the azimuth mark from the station continue east on highway 36 for 0.35 mile to west end of Platte River Bridge and station on right (south) side as described.

SPECIAL INFORMATION:

SUPERSEDED SURVEY CONTROL

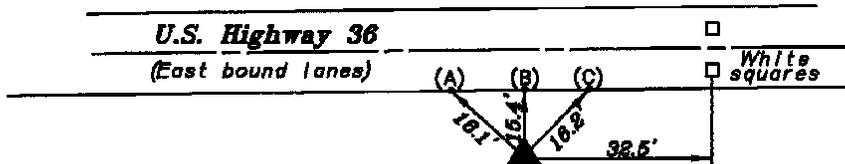
NGS NAD 83(1997)-	39°44'51.99651"(N)	94°44'36.17403"(W)
NGS NAD 83(1997)-	39°44'51.99651"(N)	94°44'36.17404"(W)
NGS NAD 83(1986)-	39°44'51.99927"(N)	94°44'36.17027"(W)
MODNR NAD 83(1986)-	39°44'51.99895"(N)	94°44'36.17070"(W)

DATE of REPORT, 2002

STATION: BU-08

U.S. Highway 36
(West bound lanes)

Grass median

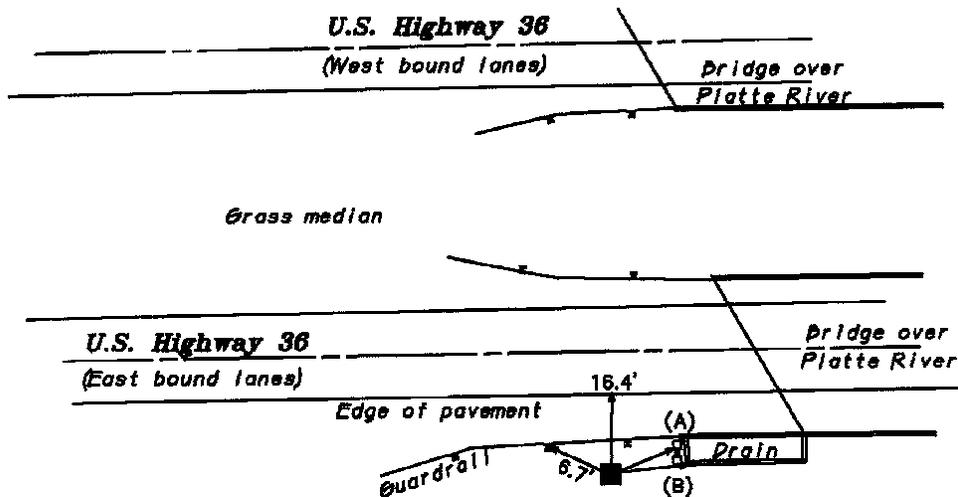


- (A) #4 Rebar at south edge of pavement
- (B) 60d nail south edge of pavement
- (C) #4 Rebar at south edge of pavement

AZIMUTH MARK: BU-08A



NOT TO SCALE



- (A) North leg of road sign/witness sticker 9.5'
- (B) South-west corner drain basin 11.3'

DATE OF SKETCH 2001



STATION: BU-08 (LOOKING WEST)



STATION: BU-08 (LOOKING NORTH)