

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-15

PID: AD9788

COUNTY: Buchanan

STATE: Missouri

TOWNSHIP: 57 NORTH, RANGE: 35 WEST, SECTION: W 1/2 OF 33

USGS 7.5' QUAD: St. Joseph South

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: 2000

ORDER: 1st

ORDER:

LATITUDE: 39°42'43.31750"

ELEVATION: 317.9

LONGITUDE: 94°50'10.54272"

ELLIPSOID HEIGHT: 285.92

MISSOURI COORDINATE SYSTEM 1983:

NORTH (Y): 393550.293

EAST (X): 821166.711

ZONE: West

CONVERGENCE: -00°12'54"

GRID FACTOR: .9999066

AZIMUTH INFORMATION:

STATION: BU-15

AZIMUTH MARK: BU-15A

GEODETTIC:

ASTRONOMIC: 268°41'33"

GRID: 268°54'27"

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-15

DESCRIPTION: The station is a standard DNR aluminum GRS disk stamped "BU-15, 1993", set in a 12 inch diameter concrete post flush with the ground surface. The station has an underground mark 0.802 meters below the surface disk. The azimuth mark is a standard DNR aluminum GRS disk stamped "BU-15A, 1993", set in a 12 inch diameter concrete post flush with the ground surface.

STATION, AZIMUTH MARKS AND REFERENCE TIES: The station is located in the northwest angle of the Missouri Highway 752 interchange with Missouri Highway 371 (22nd St.) in the south part of St. Joseph, MO. It is 11.5 feet north of the edge of the westbound on ramp pavement; 33.0 feet south of a concrete nail at south edge and 40.8 feet southwest a concrete nail in the southeast corner of an abandoned pavement slab; 20.8 feet southwest of a nail and shiner in the southeast side of a utility pole and 20.9 feet southwest of a carsonite witness post at the utility pole.

The azimuth mark is 0.25 mile west of the station and on the south right-of-way of Missouri Highway 752 (Mason Road) opposite the west line of House #1005 on the north side. It is 12.6 feet south of the edge of pavement; 31.4 feet northeast of the southwest corner of an entrance slab for House #1002; 33.0 feet east-southeast of the southeast corner of a drain inlet; 2.0 feet west of a 2 inch by 2 inch steel square mailbox post (#1004) and 2 feet north of a carsonite witness post.

STATION & AZIMUTH MARK TO REACH: To reach the station from the center of the Missouri Highway 752 interchange with Missouri Highway 371 (22nd Street) in St. Joseph, MO. Go north on 22nd Street for 0.05 mile to the westbound on ramp, turn left and go west on the ramp for 0.15 mile to the "Y" with Highway 752 pavement on left and station on the right (north) side between the ramp and an abandoned strip of pavement.

To reach the azimuth mark from the station, go west on Highway 752 (Mason Road) for 0.25 mile to the top of grade and station on the left (south) right-of-way just east of the entrance to a garage for House #1002 on Mason Road as described.

SPECIAL INFORMATION:

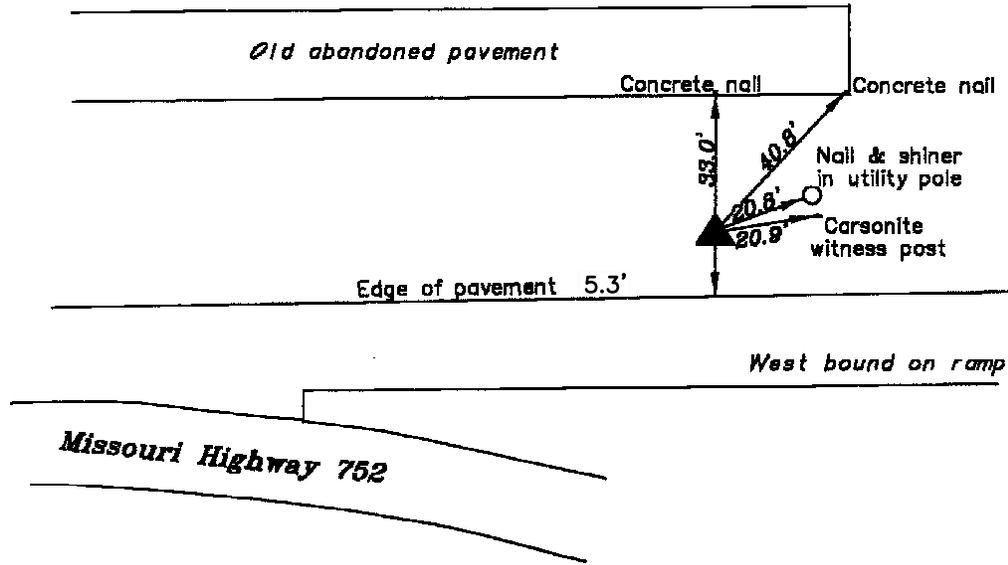
SUPERSEDED SURVEY CONTROL

NGS NAD 83(1997)-	39°42'43.31749"(N)	94°50'10.54274"(W)
NGS NAD 83(1997)-	39°42'43.32749"(N)	94°50'10.54274"(W)
NGS NAD 83(1986)-	39°42'43.32039"(N)	94°50'10.53911"(W)
MODNR NAD 83(1986)-	39°42'43.31938"(N)	94°50'10.53898"(W)

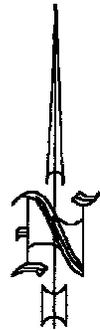
DATE of REPORT, 2002

STATION: BU-15

Community Christian Church



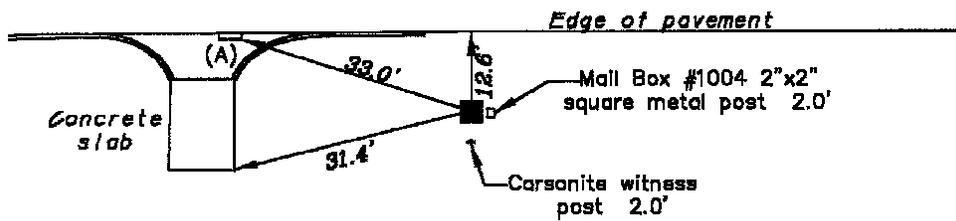
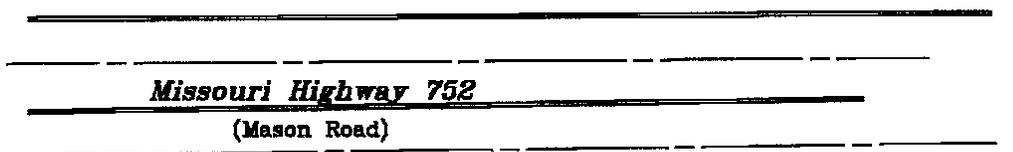
AZIMUTH MARK: BU-15A



NOT TO SCALE

#1003

#1005



#1002

Garage

(A) SE corner drain inlet

DATE OF SKETCH 2001



STATION: BU-15 (LOOKING WEST)



STATION: BU-15 (LOOKING NORTH)