SECTION CORNER RECORD

NW 950-600

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (CORS96):

Corner 1: North: 1795848.78 East: 3093058.11 (U.S. survey feet)

Corner 2: North: 1795805.88 East: 3093057.50 (U.S. survey feet)

Type of monument, Corner 1: Harrison, 4" disk 'Section Corner'

Type of monument, Corner 2: Stone

Depth: flush with adjacent ground (both corners)

Indiana tie card references: IN02_T20NR2W13_44 IN02_T20NR1W18_36

① E. 1/4 corner, Section 13
T 20 N, R 2 W
Harrison set over record lower stone

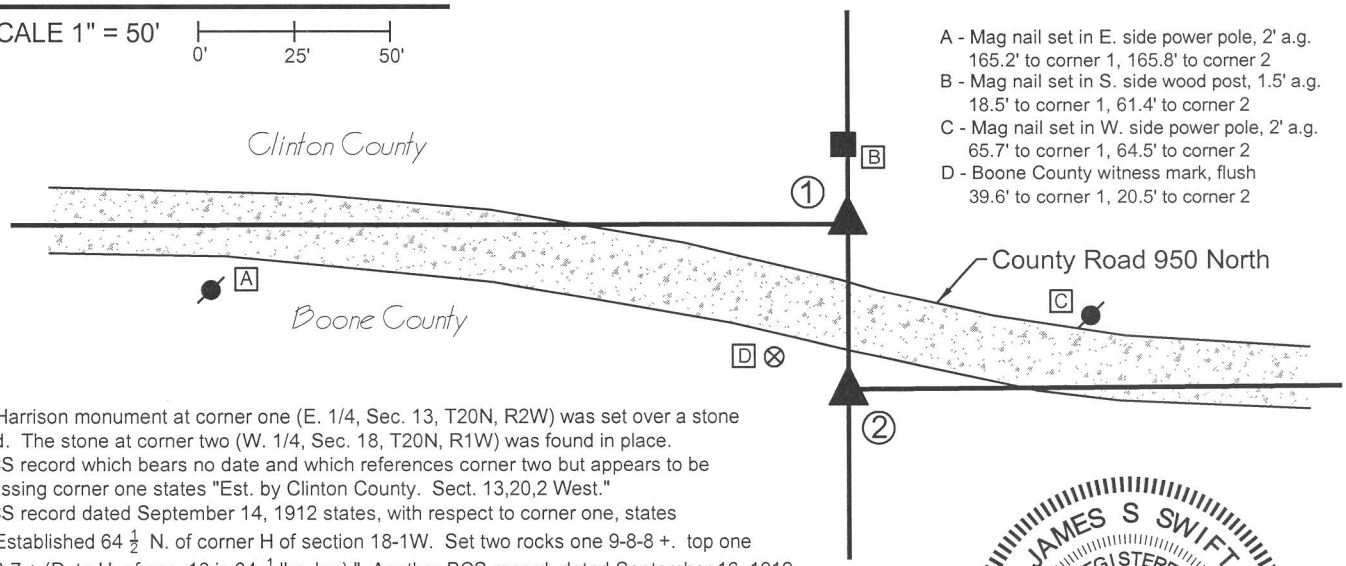
② W. 1/4 corner, Section 18
T 20 N, R 1 W
Top, high point, existing stone (flush)

Distance between monuments = 42.9'

grid north

CORNER WITNESS DETAIL

SCALE 1" = 50' 0' 25' 50'

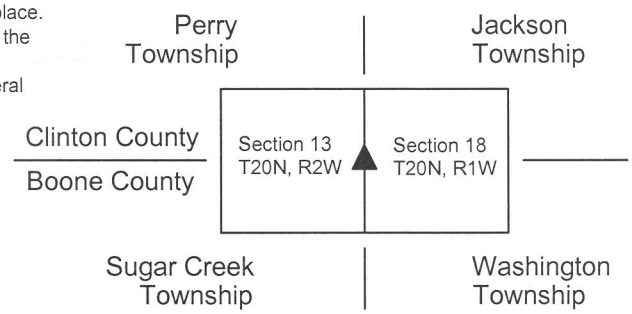


A - Mag nail set in E. side power pole, 2' a.g.
165.2' to corner 1, 165.8' to corner 2
B - Mag nail set in S. side wood post, 1.5' a.g.
18.5' to corner 1, 61.4' to corner 2
C - Mag nail set in W. side power pole, 2' a.g.
65.7' to corner 1, 64.5' to corner 2
D - Boone County witness mark, flush
39.6' to corner 1, 20.5' to corner 2

The Harrison monument at corner one (E. 1/4, Sec. 13, T20N, R2W) was set over a stone found. The stone at corner two (W. 1/4, Sec. 18, T20N, R1W) was found in place.
A BCS record which bears no date and which references corner two but appears to be discussing corner one states "Est. by Clinton County. Sect. 13,20,2 West."
A BCS record dated September 14, 1912 states, with respect to corner one, states "Re-Established 64 ½ N. of corner H of section 18-1W. Set two rocks one 9-8-8 +. top one 14-13-7 + (D. to H. of sec. 18 is 64 ½ lks. lap)." Another BCS record, dated September 16, 1912 but which also references the date November 11, 1889, and specifically discusses corner one, states "Some parties doubting the correctness and legality of this corner as established above and desiring joint action with the Surveyor of Clinton County, I met with Mr. Hill, C.S. of C.C. We measured the east line of the section and found D as above to be mid-way between E & C. (2645 feet from each) but 12 feet East of a straight line. H of section 18 having been established by Clinton Surveyor, there being a rock at that point, with roots to agree with witnesses and D having been set the proper distance North we agree that the same be taken as correct. The corners E & d, indicating the same point (very nearly)."
Stone were found at both corners during the Spring of 2014. The stone at corner two (corner H, section 13) is flush with the surface with a distinct high point. The stone at corner one was found at approximately 8 inches deep in a hole with a piece of metal above it and a surveyor's lathe next two it. Clearly this stone has been found in recent years by private surveyors. Excavation on October 10, 2014 yielded the observation that the stone at corner one is actually the bottom stone described in the 1912 record, 9 inches tall by 8 inches E-W and N-W with a clearly etched "+" mark on top. Sufficient excavation was performed at corner two to demonstrate that this stone is very large with sloping sides. The small part of the stone visible at the surface represents a distinct, generally square shaped high point of the rock. The 1912 record calls for an offset (referred to as lap) of 64.5 links between the corners, which is the average of the record federal offsets at the section corners to the north and south. This distance equates to 42.57 feet. The actual distance measured between the mark on the top of the stone at corner one and the center of the top of corner 2 is 42.9 feet.
The stones were accepted as marking the respective corners. Both stones were left in place.
A Harrison monument was set over the etched "+" on the of the stone at corner one and the stone at corner two was left undisturbed.
Corner one was set as a wood post in 1819. Corner two was not set on the original federal survey.

JAMES S SWIFT
REGISTERED
No.
20200054
STATE OF
INDIANA
LAND SURVEYOR

James S. Swift, IN LS 20200054
March 27, 2015



Kenneth E. Hedge, County Surveyor

BOONE COUNTY SURVEYOR'S OFFICE

NW 950-600

PHOTOGRAPHIC DOCUMENTATION
Date of photography: September 20 and October 10, 2014

The stone at corner one as originally found.

The stone at corner one, washed, showing mark.

The stone at corner one prior to being encased in concrete with a Harrison monument set above.

The stone at corner two as originally found, showing just the top of a large stone.

View from above corner two, looking towards corner one, marked with a shovel handle

View from above corner one, looking toward the post and brush line to the north

For details and documentation, refer to related sheet "Section Corner Record."

SECTION CORNER RECORD

NW 950-650

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (CORS96):
North: 1795847.37 East: 3090429.87 (U.S. survey feet)

Type of monument: Harrison, 4" disk 'Section Corner'
Depth: six inches below adjacent gravel road surface

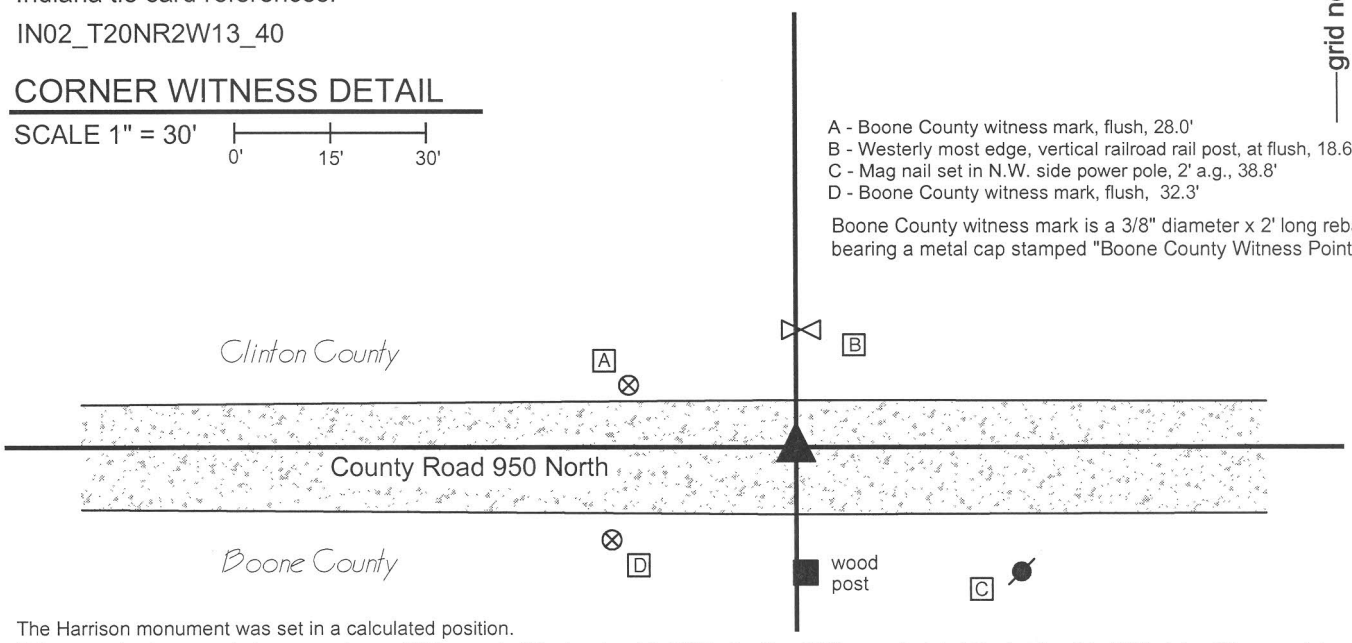
Indiana tie card references:
IN02_T20NR2W13_40

CORNER WITNESS DETAIL

SCALE 1" = 30' 0' 15' 30'

A - Boone County witness mark, flush, 28.0'
B - Westerly most edge, vertical railroad rail post, at flush, 18.6'
C - Mag nail set in N.W. side power pole, 2' a.g., 38.8'
D - Boone County witness mark, flush, 32.3'

Boone County witness mark is a 3/8" diameter x 2' long rebar bearing a metal cap stamped "Boone County Witness Point."



The Harrison monument was set in a calculated position.
This corner is shown as being present on a BCS record of September 15, 1855. Another BCS record, dated September 14, 1912 states "Drove a stake at true point." The same record describes the quarter-quarter corner between this corner and the east quarter corner of the section as "Re-established. Set a rock 17-12-14. One under it 9-8x4 +." The 1912 record shows the quarter-quarter corner as being at equal distances from the center and east quarter corners. No recent Boone County or Clinton County tie cards were found referencing this corner.
Excavation was initially performed at this corner on September 11, 2014. No monument was found prior to excavation but local evidence in the form of the east-west roadway, a wood post on the south side of the road and a railroad rail type post on the north side of the road made the general location of the corner readily apparent. Excavation of an 8 foot east-west by 9 foot north-south area, centered on a point one rod (16.5 feet) north of the post on the south side of the road yielded no further evidence of the corner. The road bed was found to be only 2 to 6 inches thick. Excavation was performed to at least one foot deep, well into the clay layer below the road. No monument was set at the time of excavation, pending further review of adjacent corners. Subsequently, the aforementioned quarter-quarter corner to the east was excavated. Excavation in the center of the road south of a fence to the north yielded the discovery of both rocks described as being at that corner in the 1912 record. The top rock was close to the surface and appeared to have been disturbed and displaced slightly. This rock was found to be a total of 16 inches NW-SE by 11 inches NE-SW by 12 inches and bore a vague etched "+" on top. The rock was removed and another rock was found at 13 inches deep. This rock had a flat top with a clearly etched + on top. The full dimensions of the lower rock were not measured. The rock was left in place and the etched + was located precisely with redundant RTK GPS observations.
The 1912 record clearly indicated that the quarter-quarter corner was established at the midpoint between the center and east quarter corners of Section 13. It is was not specifically stated in the record but is reasonably interpreted that this point was also set on line between these corners. A position for the center quarter corner was calculated by prolonging the line connecting the Harrison monument at the east quarter corner (previously set over a stone which was also described in the 1912 record - see documentation for corner NW 950-600) with the stone found at the quarter-quarter corner. The line was prolonged at double the distance measured between the found stones. The resultant calculated position fit very well with local evidence of the corner, being near the center of the road and 0.6 of a foot west of the railroad rail post on the north side of the road and approximately 1 foot west of the wood post on the south side of the road. This position was also well within the area which had been excavated on September 11. The calculated position was held as the corner and a Harrison monument was set at this calculated position on December 4, 2014.

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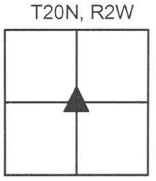
Kenneth E. Hedge, County Surveyor

James S. Swift, IN LS 20200054
March 27, 2015

Perry Twp
Clinton County

Sugar Creek Twp
Boone County

Section 13
T20N, R2W



BOONE COUNTY SURVEYOR'S OFFICE

NW 950-650

PHOTOGRAPHIC DOCUMENTATION
Date of photography: September 11 and October 22, 2014

Excavation at the subject corner on 9/11/2014

The lower stone at the corner 1/4 mile east.
Note the etched "+" mark on top.

The upper stone at the corner 1/4 mile east.
View from west, looking east along C.R. 950 N.

The upper stone at the corner 1/4 mile east.
Stone is washed. View from the south.

For details and documentation, refer to
related sheet "Section Corner Record."