

SECTION CORNER RECORD

NE 100-650

BOONE COUNTY SURVEYOR'S OFFICE

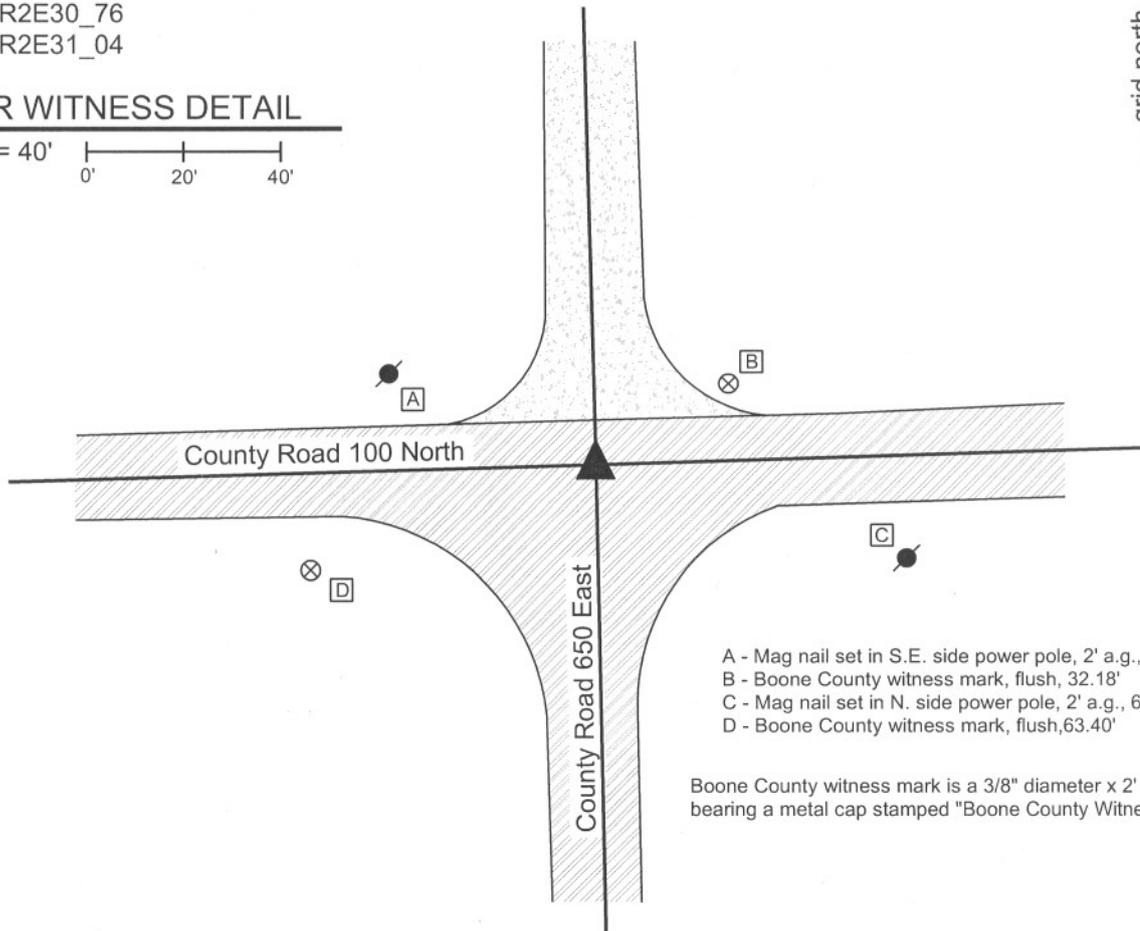
State Plane grid coordinates NAD83 (NSRS 2007):
North: 1751418.61 East: 3159182.58 (U.S. survey feet)

Type of monument: Harrison, 4" disk 'Section Corner'
Depth: One inch below adjacent road surface

Indiana tie card references:
IN02_T19NR2E30_76
IN02_T19NR2E31_04

CORNER WITNESS DETAIL

SCALE 1" = 40'
0' 20' 40'



- A - Mag nail set in S.E. side power pole, 2' a.g., 45.65'
- B - Boone County witness mark, flush, 32.18'
- C - Mag nail set in N. side power pole, 2' a.g., 66.62'
- D - Boone County witness mark, flush, 63.40'

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 place of a railroad rail found. A BCS tie card dated July 10, 1968 states "no stone." No specific descriptions of this corner were found in the old BCS Surveyor's Record. This corner was excavated on August 26, 2010. Prior to excavation a railroad spike was found at the surface. Excavation revealed a piece railroad rail on end found at 6 inches deep, the top, center of which was 0.2 foot southwest of the railroad spike. The spike and rail were both removed during excavation. Fragments of an oak stake were found in the clay approximately one foot east of the rail at 30 inches deep. No other evidence of the corner was found. The 1968 record does not specifically state that the rail was set at that time, but it is known that it was a common practice for BCS field crews from that era to set railroad rails as monuments. With no source documentation on the fragments of wood found, the rail was held as the best available evidence of the corner and a harrison monument was set in its place. This corner was originally established as a wood stake in July, 1821.



Kenneth E. Hedge
Kenneth E. Hedge, County Surveyor

James S. Swift
James S. Swift, IN LS 20200054

July 25, 2011

Union Township



SECTION CORNER RECORD

NE 100-700

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (NSRS 2007):
North: 1751495.52 East: 3161826.38 (U.S. survey feet)

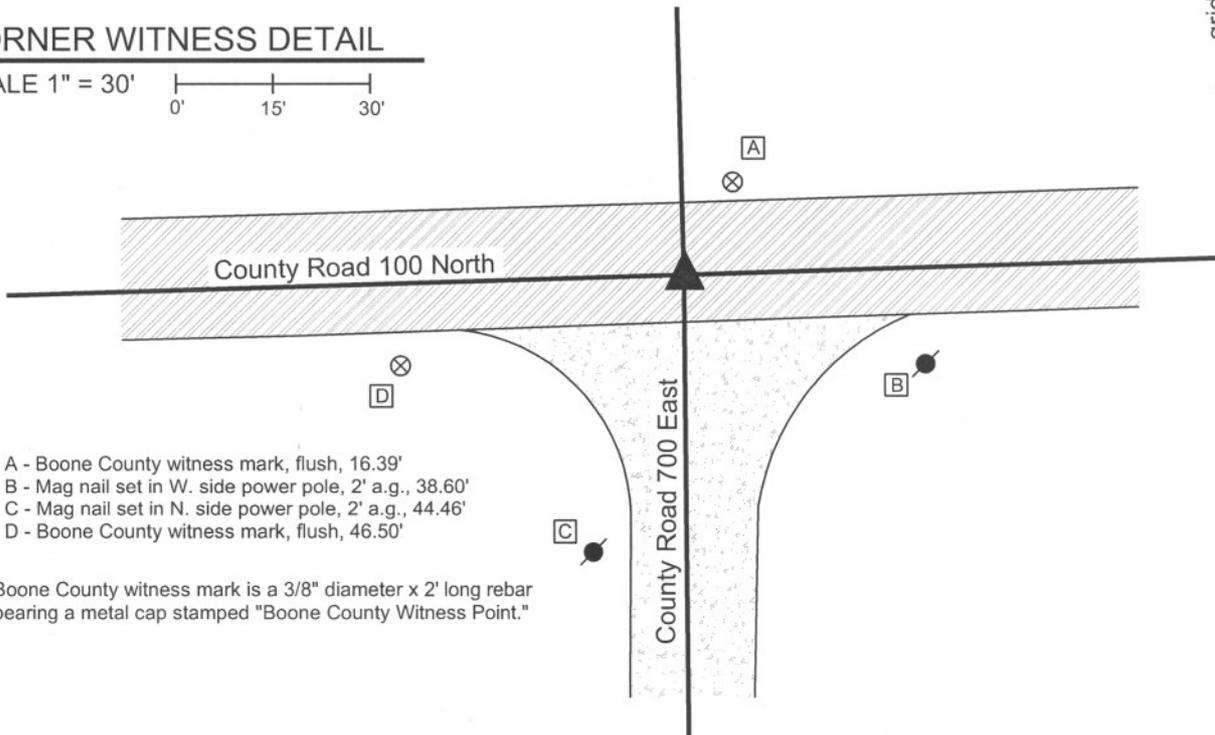
Type of monument: Harrison, 4" disk 'Section Corner'
Depth: One inch below adjacent road surface

Indiana tie card references:
IN02_T19NR2E29_72 IN02_T19NR2E30_80
IN02_T19NR2E31_08 IN02_T19NR2E32_00



CORNER WITNESS DETAIL

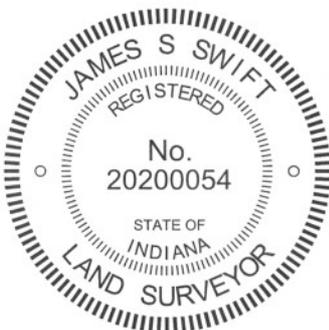
SCALE 1" = 30'
0' 15' 30'



- A - Boone County witness mark, flush, 16.39'
- B - Mag nail set in W. side power pole, 2' a.g., 38.60'
- C - Mag nail set in N. side power pole, 2' a.g., 44.46'
- D - Boone County witness mark, flush, 46.50'

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 over the top, high point of a stone found. A BCS record dated April 15-16, 1862 states "Found a Rock, yet shown correct by stump of one tree." A BCS tie card dated July 8, 1968 states "no stone." This corner was excavated on December 18, 2009. Prior to excavation a railroad spike was visible at the surface. Excavation revealed a railroad rail on end at 4 inches deep, below the railroad spike. A 5/8 inch rebar was found adjacent to the rail on the south side. Further excavation revealed a stone found 18 inches deep, 2.7 feet south and 1.8 feet east of the rail. The stone imesasures 7 inches N-S, 9 inches E-W and is 11 inches tall with no visible markings. The stone is fully embedded in the clay layer below the road with the top of the stone at the bottom of the sub-base layer of the road. The characteristics of this stone, embedded in the clay, horizontal with no specific markings are consistent with other stones which were set in the early 1800s and were found, but not set, by later County Surveyors. The 1862 reference to the stump of one tree is accepted as evidence that the stone was found to be the proper distance from an original bearing tree. The stone was held as the best evidence of the original location of the corner and the harrison monument was set directly over the top, high point of the stone. The railroad rail, railroad spike and rebar were all removed during excavation. The 1968 reference to "no stone" indicates that a stone was searched for but found. It is most likely that the railroad rail was set at that time, after the erroneous determination that other evidence, in the form of a stone, was not present. This corner was originally established as a wood post in July, 1821.



Kenneth E. Hedge
Kenneth E. Hedge, County Surveyor

James S. Swift
James S. Swift, IN LS 20200054
July 25, 2011

Union Township

Section 30 T19N, R2E	Section 29 T19N, R2E
Section 31 T19N, R2E	Section 32 T19N, R2E

PHOTOGRAPHIC DOCUMENTATION

Date of photography: December 18, 2009

Railroad rail and rebar, as found.



The stone exposed.



View of the stone and County Road 100 North, from the west, looking east.



View of the stone and County Road 700 East, from the north, looking south.



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

SECTION CORNER RECORD

NE 200-700

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (NSRS 2007):

North: 1756791.75 East: 3161700.86 (U.S. survey feet)

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

Depth: Six inches below the adjacent gravel road surface.

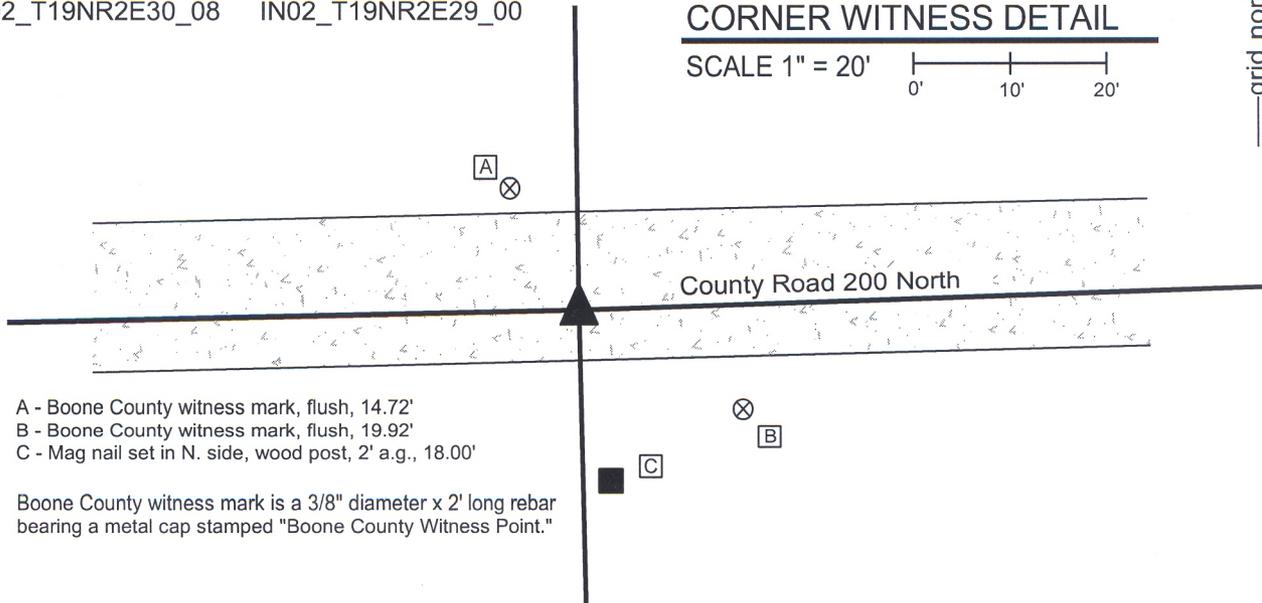
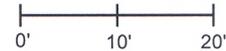
Indiana tie card references:

IN02_T19NR2E19_76 IN02_T19NR2E20_80

IN02_T19NR2E30_08 IN02_T19NR2E29_00

CORNER WITNESS DETAIL

SCALE 1" = 20'



- A - Boone County witness mark, flush, 14.72'
- B - Boone County witness mark, flush, 19.92'
- C - Mag nail set in N. side, wood post, 2' a.g., 18.00'

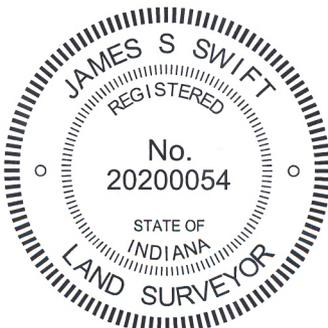
Boone County witness mark is a 3/8" diameter x 2' long rebar bearing a metal cap stamped "Boone County Witness Point."

The harrison monument was set over a stone found.

A BCS record of January 28, 1869 states "Reestablished from Ash. Set two Rocks. One 5 1/2, 5 by 4 in. marked +. Top Rock 15, 7 by 6 inch. marked + on side." A BCS tie card dated April 1970 states "No stone, set rail."

This corner was excavated on June 14, 2010. Prior to excavation a railroad rail was found 3 inches below the surface of the gravel road, leaning substantially towards the east. Excavation revealed several stones at various depths and positions. A stone which was accepted as being the record lower stone was found at 22 inches deep, 4 feet west and 0.3 feet south of the top of the rail, as originally found. This stone was 5 inches tall by 5 1/2 inches N-S by 7 inches E-W with a clearly visible "+" etched in the top center. Two of the dimensions of the stone match the record dimensions but the E-W dimension does not match the record dimension of 4 inches. Analysis of this situation yielded the conclusion that this is the stone mentioned in the 1869 record and that the variation in the one dimension is most likely to have been a notation error. The fact that the smallest dimension of the stone, as found, is the vertical dimension fits with the character of the stone as being the lower stone. It has been observed at numerous other corners that when the County Surveyors of the second half of the 19th century set two rocks at a corner, the lower stone was usually set horizontally, acting as a base and the upper stone was set vertically. The character of the stone found at this corner matches that observation. The etched "+" on the top, center of the stone is also characteristic of the lower stone. Furthermore, the depth of the stone, being embedded in the clay layer below the road, approximately 14 inches below the bottom of the road bed, fits well with the fact that the upper stone was recorded to be 15 inches tall, hence would have protruded slightly into the bottom of the road bed. This is also characteristic of other top, vertical stones set by County Surveyors in that era. The found stone was held as the marking the corner and the harrison monument was set directly over the etched "+" on the top of the stone.

Another stone was found 1.5 feet East and 0.3 foot South of the record stone, being at 4 inches deep and measuring 13 inches tall by 10 inches N-S by 6 inches E-W with no visible marks. Two other stones were found against each other, approximately 0.8 foot south of the record stone, being 13x9x6 inches at 13 inches deep and 9x5x3 inches deep at 23 inches, respectively. The latter stone was against the lower west edge of the former stone. The rail and three extra stones were removed during excavation. This corner was originally established as a wood post in July, 1821.



Kenneth E. Hedge
 Kenneth E. Hedge, County Surveyor

James S. Swift
 James S. Swift, IN LS 20200054

July 25, 2011, Revised February 6, 2013

Marion Twp

Section 19 T19N, R2E	Section 20 T19N, R2E
Section 30 T19N, R2E	Section 29 T19N, R2E

Union Twp

PHOTOGRAPHIC DOCUMENTATION

Date of photography: June 14, 2010

The railroad rail and the first stone exposed.



The railroad rail and the second stone exposed.



View of the rail, the first stone exposed and the post on the south side of the road.



The record lower stone with etched mark on top.



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