

SECTION CORNER RECORD

SE 300-600

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (NSRS 2007):
North: 1730404.93 East: 3156558.88 (U.S. survey feet)

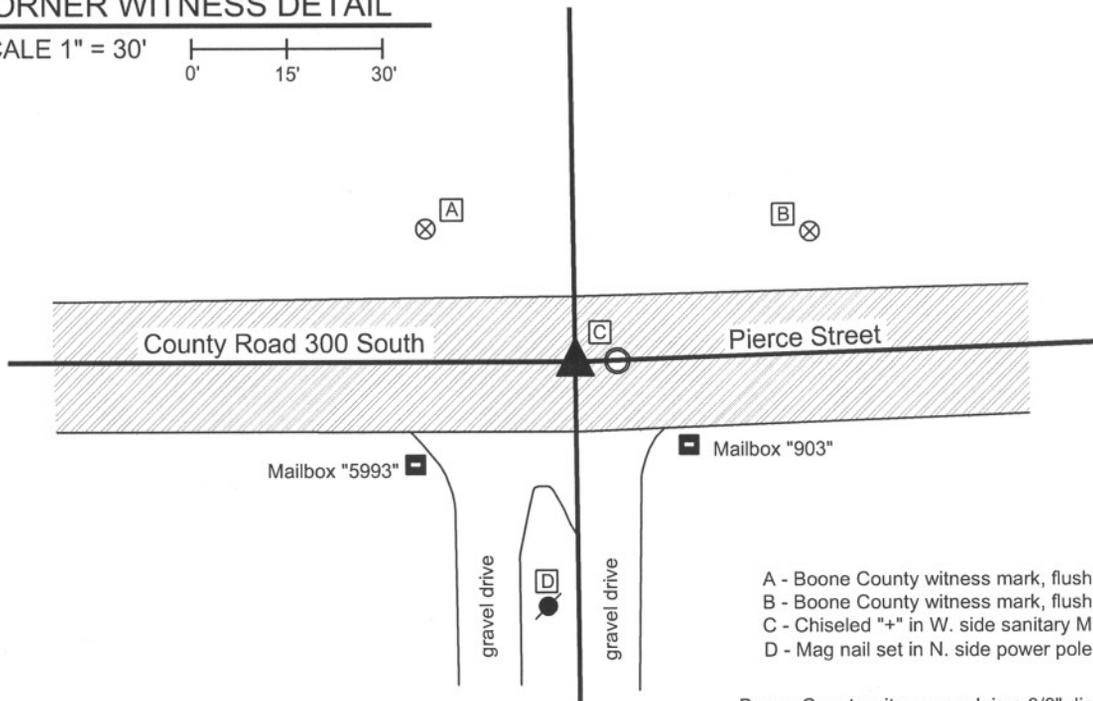
Type of monument: Harrison, 4" disk 'Section Corner'
Depth: One inch below adjacent road surface

Indiana tie card references:
IN02_T18NR1E13_80 IN02_T18NR2E18_72
IN02_T18NR1E24_08 IN02_T18NR2E19_00



CORNER WITNESS DETAIL

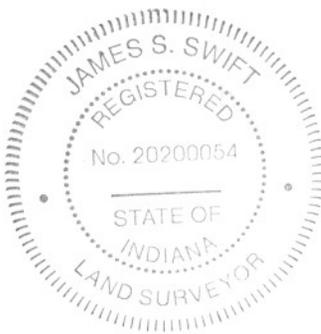
SCALE 1" = 30'



- A - Boone County witness mark, flush, 31.56'
- B - Boone County witness mark, flush, 42.37'
- C - Chiseled "+" in W. side sanitary MH, T.C., 4.9'
- D - Mag nail set in N. side power pole, 2' a.g., 37.6'

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 harrison monument found. A BCS record of April 7-9, 1857 states "Reest. Set Rock 14 by 18 in." A BCS tie card dated February 26, 1969 states "no stone." A BCS tie card dated November 22, 2005 shows the corner as a harrison monument with no documentation about source. This corner was excavated on July 23, 2008. Prior to excavation, a harrison monument was visible at the surface. Excavation revealed clear evidence that the immediate vicinity of the corner was disturbed as part of the construction of a sanitary sewer and installation of the manhole 5 feet east of the harrison. No stone, nor any other monument was found. The old harrison was replaced with a new harrison in the same position. This corner was originally established as a wood post in 1819. There is no standard corner / closing corner offset as the federal notes for T 18 N, R 2 E state "intersect west line at post."



Kenneth E. Hedge
Kenneth E. Hedge, County Surveyor

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

March 11, 2009

Worth Township

Section 13 T18N, R1E	Section 18 T18N, R2E
Section 24 T18N, R1E	Section 19 T18N, R2E

SECTION CORNER RECORD

SE 300-700

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (NSRS 2007):

North: 1730580.62 East: 3161992.08 (U.S. survey feet)

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

Depth: One inch below adjacent road surface

Indiana tie card references:

IN02_T18NR2E17_72 IN02_T18NR2E18_80

IN02_T18NR2E19_08 IN02_T18NR2E20_00

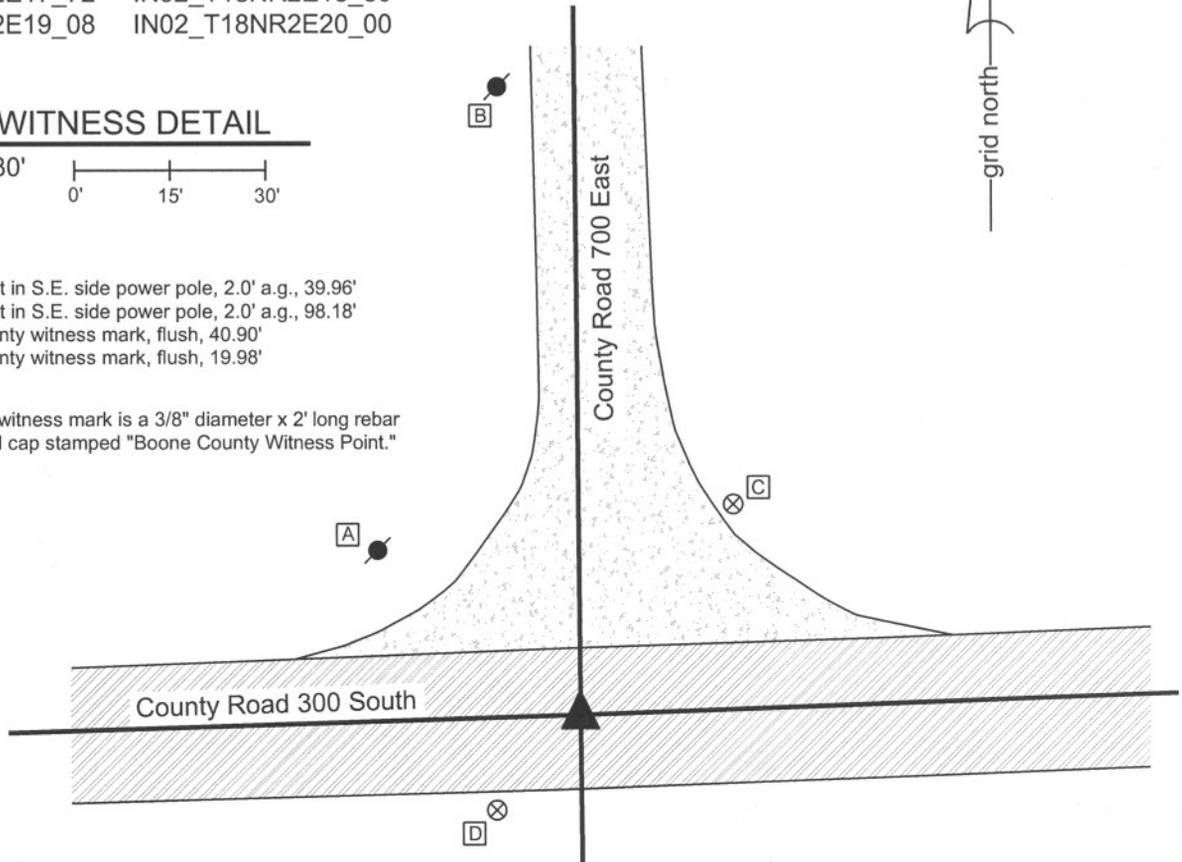
CORNER WITNESS DETAIL

SCALE 1" = 30'



- A - Mag nail set in S.E. side power pole, 2.0' a.g., 39.96'
- B - Mag nail set in S.E. side power pole, 2.0' a.g., 98.18'
- C - Boone County witness mark, flush, 40.90'
- D - Boone County witness mark, flush, 19.98'

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 record of August 17, 1869 calls for "a stone that was set." A BCS tie card dated May 3, 1967 states "stone found." This corner was excavated on July 15, 2008. Prior to excavation, a railroad spike was visible 2 inches deep in a hole in the asphalt. Excavation revealed a railroad rail 10 inches deep, 0.15 foot W and 0.05 foot S of the railroad spike. Both were removed. Further excavation yielded a small stone found at 24 inches deep. The stone measured 10 inches E-W by 6 inches N-S by 5 inches thick. The top, center of the stone was 0.3 foot south of the rail. It is not clear whether this stone is the the stone of record, nor is it clear whether this was the stone found in 1967. If is the stone of 1967, it is not known whether it was left undisturbed at the time of the setting of the rail. It is known that the common practice by field crews from this office during that time was to remove the stone entirely and set a rail in its place, when a stone was found. The most likely occurrence was exactly that: the stone was removed and replaced with the rail and that the small stone is not the true corner stone. No other monuments were found. The rail was accepted as providing the best evidence of the original location of the corner stone and the harrison monument was set in the position of the rail.

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

March 11, 2009

Worth Township

Section 18 T18N, R2E	Section 17 T18N, R2E
Section 19 T18N, R2E	Section 20 T18N, R2E

SECTION CORNER RECORD

SE 350-600

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (NSRS 2007):
North: 1727769.54 East: 3156587.73 (U.S. survey feet)

Type of monument: Harrison, 4" disk 'Section Corner'
Depth: 2 inches above adjacent ground

Indiana tie card references:
IN02_T18NR1E24_44
IN02_T18NR2E19_36



CORNER WITNESS DETAIL

SCALE 1" = 30'

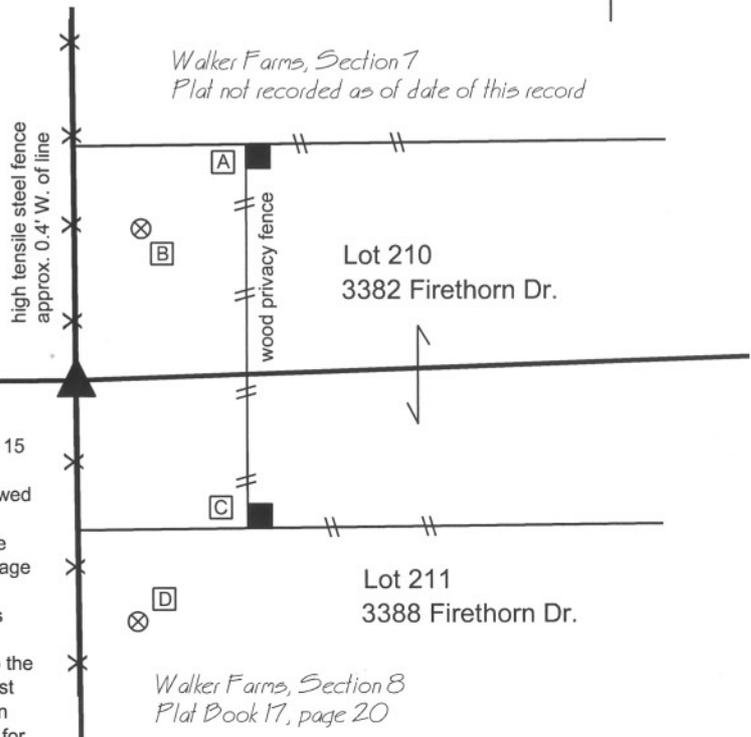


- A - Wood corner post, N.W. corner, base, 45.50'
- B - Boone County witness mark, flush, 25.74'
- C - Wood corner post, S.W. corner, base, 35.44'
- D - Boone County witness mark, flush, 38.98'

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 stone found. A BCS record of April 9, 1857 states "Re Established. Set a Rock 9 by 15 in." No recent BCS tie cards were found referencing this corner. Preliminary excavation for this corner occurred on March 27, 2009, followed by final excavation and monumentation of May 11, 2009. Prior to excavation no monuments were visible in the vicinity of this corner. The corner is shown on the plat of Walker Farms Section 8, Plat Book 17, page 20 in the Office of the Boone County Recorder but the plat does not demonstrate a monument. The preliminary survey upon which this plat is based, Survey Book 4, page 67 demonstrates that the corner was established at the midpoint of the line connecting the section corners to the north and south. However, this survey holds a position for the southwest corner of section 19 which is approximately one rod north of the position held by this office, as discussed in detail on the Section Corner Record for corner SE-400-600. Hence, the calculated midpoint is approximately 1/2 rod north of the midpoint as held by this office. Given the lack of physical evidence for the corner, the midpoint of the line connecting the section corners (as held by this office) was computed and this position was "turned out" in the field. The record stone was found at nearly the exact position turned out in the field. The stone was approximately 2 inches below grade and measured approximately 9 inches N-S and E-W by 15 inches tall. The north side of the stone is vertical and the south side slopes to the south, giving the stone an overall vertical orientation, though more specifically on the north side than the south side. The stone was accepted as marking the corner and its presence at the midpoint of the line connecting the section corners is accepted as providing collateral evidence to the position of the section corner to the south, as discussed in the record for that corner. The stone was removed and the harrison monument was set at the position of the top, high point of the stone. Although this corner is on the range line, there was no recorded off-set for the corners to the north and south, hence no off-set should exist for this corner.

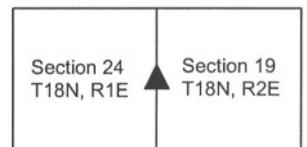
This corner was originally established as a wood post in 1819.



Kenneth E. Hedge
Kenneth E. Hedge, County Surveyor

James S. Swift
James S. Swift, IN LS 20200054
July 14, 2010

Worth Township



PHOTOGRAPHIC DOCUMENTATION

Date of photography: May 11, 2009

View of the stone as first exposed.



View of the stone more fully exposed.
View from above and east.



View from above the stone looking south along
the section line and line between Walker Farms
and the adjoining farm to the west.



View of the stone more fully exposed.
View from above and north.



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

SECTION CORNER RECORD

SE 350-700

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (NSRS 2007):

North: 1727938.98 East: 3162016.02 (U.S. survey feet)

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

Depth: four inches above adjacent ground

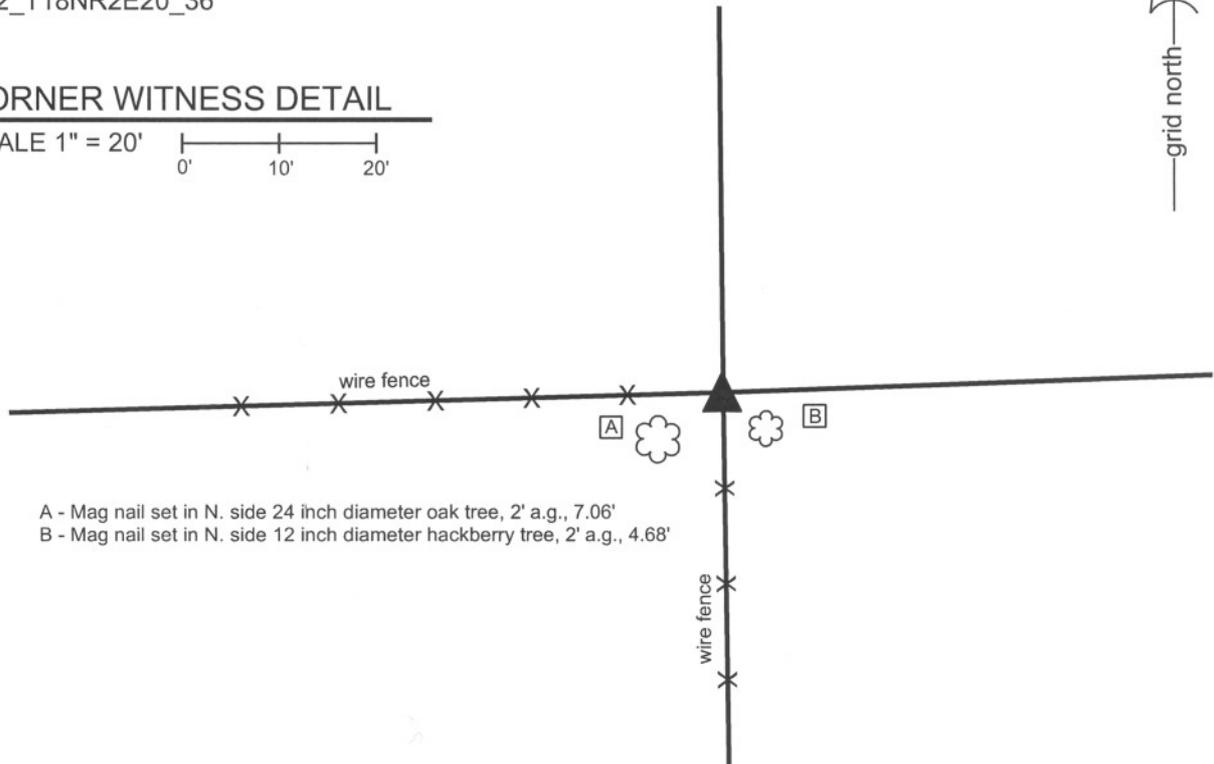
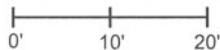
Indiana tie card references:

IN02_T18NR2E19_44

IN02_T18NR2E20_36

CORNER WITNESS DETAIL

SCALE 1" = 20'



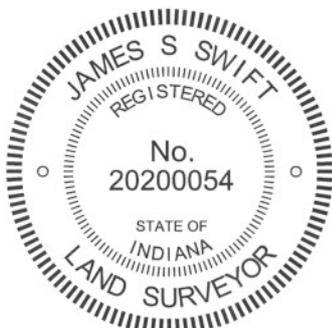
- A - Mag nail set in N. side 24 inch diameter oak tree, 2' a.g., 7.06'
- B - Mag nail set in N. side 12 inch diameter hackberry tree, 2' a.g., 4.68'

The harrison monument was set in place of a stone found.

A BCS record of December 15, 1871 states "Reestablished Set Rock 14.9.6 +." No recent BCS tie cards were found for this corner.

This corner was excavated on December 19, 2009. Prior to excavation an iron pipe was visible protruding to 6 inches above grade. The iron pipe was at the northwest edge of a hackberry tree which falls at the intersection of fences to the west and south. The fences are old and generally on the ground. Parts of the old corner post were visible lying on the ground near the tree. Excavation revealed the record stone at the north edge of the tree, approximately 10 inches north and 3 inches east of the iron pipe. The top of the stone was at 3 inches below grade. An etched "+" was clearly visible on the top of the stone and the dimensions of the stone matched the 1871 record. The stone, pipe and the hackberry tree were all removed and a harrison monument was set in place of the stone.

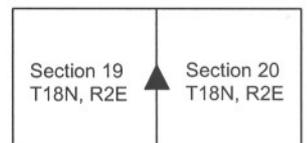
This corner was originally established as a wood post in 1820.



Kenneth E. Hedge
Kenneth E. Hedge, County Surveyor

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

Worth Township



PHOTOGRAPHIC DOCUMENTATION

Date of photography: December 17, 2009

View of the corner prior to excavation.



View of the corner after the stone was found and replaced with a harrison monument. The hackberry tree which had been adjacent to the stone is visible behind the monument, uprooted and pushed to the south and west.



The stone and iron pipe, view from the north.



The stone and iron pipe, view from the northeast.



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

SECTION CORNER RECORD

SE 400-600

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (NSRS 2007):

North: 1725133.84 East: 3156616.82 (U.S. survey feet)

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

Depth: six inches below adjacent gravel road surface

CORNER WITNESS DETAIL

SCALE 1" = 40'



Indiana tie card references:

IN02_T18NR1E24_80 IN02_T18NR1E25_08

IN02_T18NR2E19_72 IN02_T18NR2E30_00

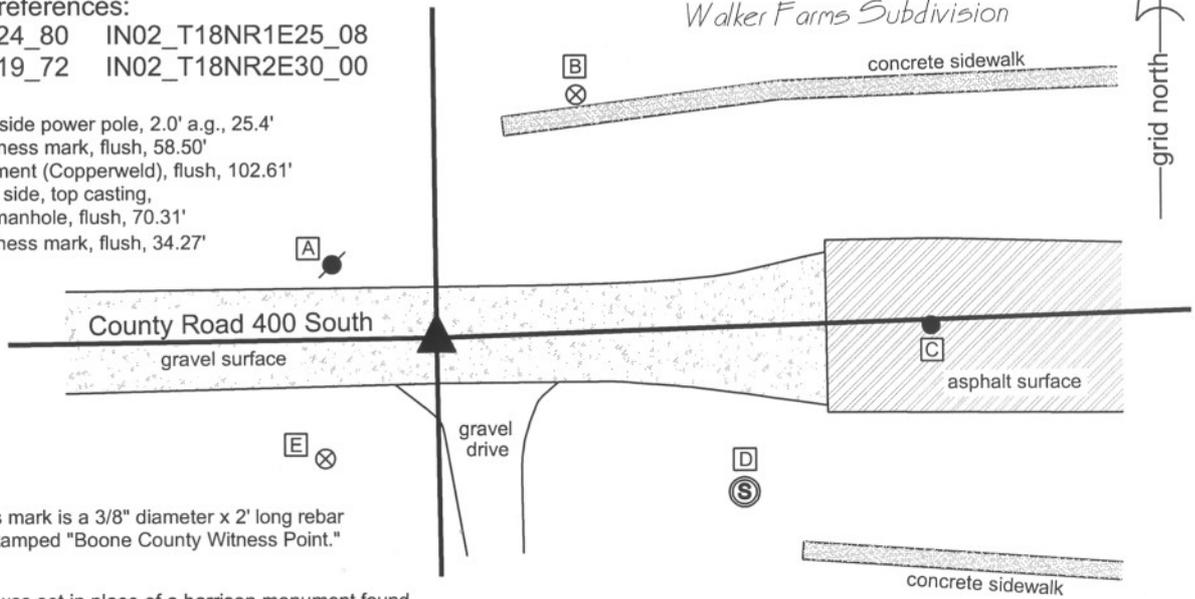
A - Mag nail set in E. side power pole, 2.0' a.g., 25.4'

B - Boone County witness mark, flush, 58.50'

C - Center line monument (Copperweld), flush, 102.61'

D - "x" chiseled on N. side, top casting, sanitary sewery manhole, flush, 70.31'

E - Boone County witness mark, flush, 34.27'



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 harrison monument found.

A BCS record of July 8, 1881 states "Established by running line from E to F in Sect 19....Set Rock 10,8,6 marked +." A BCS tie card dated May 11, 1970 states "No stone, Set Rail." This tie card references the corner as being the northeast corner of section 25, township 18 north, range 1 east. The card shows this corner as being situated in the center of County Road 400 South and also shows an apparent corner one rod (16.5 feet) north and states "Stone for NW corner of Sec 30 T18N R2E?" The question mark shown in the quote is per the tie card. The field crew evidently found a rock one rod north of the center of the road and concluded that the standard corner fell in the road and the closing corner fell to the north, monumented by the rock. However, the original federal surveyors did not establish two corners at this point. The transcribed government field notes for the closing corner state "West Between Secs 19 & 30 82.88 Intersected West line at post...." Hence, the reference in the 1970 tie card to the closing corner being one rod north of the standard corner is erroneous, as was perhaps known at the time, as evidenced by the question mark. Analysis of the geometry of the proximate lines and corners of the Public Land Survey System in this area yields ample evidence that this corner should fall within County Road 400 South rather than north of it. This corner was excavated on July 29, 2009. Prior to excavation a harrison monument was found in the approximate center of County Road 400 South at a position which fits that shown for the railroad rail on the 1970 tie card with respect to the center of the road, the fence to the north and the fence to the south 49.5 feet east. No documentation was found for the source of the harrison. Excavation revealed no further evidence below or in the vicinity of the harrison. The area of excavation was 12 feet N-S by 12 feet E-W, centered on the harrison. Based on the references shown on the 1970 tie card, the rail would have definitely fallen within this area of excavation. The road bed in this area is very shallow, being only 6 to 9 inches of gravel, below which is the clay layer. If the record stone had been set in a similar manner to many other stones found from the same era, it would have been embedded in the clay, protruding 2 to 4 inches into the bottom of the road, putting it well within the range of the blade or teeth of a road grader. The fact that the rail is not present indicates that it was probably hit by a road grader and removed. As the harrison monument was the only physical evidence found and it fits the references on the 1970 tie card, it was held as marking the corner. A new harrison monument was set in its place approximately 8 inches below grade. The stone shown on the 1970 tie card was not found and was likely removed during the installation of an electric transformer box servicing the Walker Farms development to the north and east. It is noted that the preliminary survey to the Walker Farms development, Survey Book 4, page 67, holds the stone for the S.W. corner of section 19, stating "stone found per Co. Surveyor's ties." As noted above, this stone is not considered the corner. The reference to the tie card does not note the question mark attached to this reference. It is noted that this survey does hold County Road 400 South, extended east to the intersection with County Road 650 East, as the south quarter corner. It is also noted that the stone at the west quarter corner of section 19 was found at the midpoint of the line between the northwest corner, in County Road 300 South and southwest corner, in County Road 400 South. Please refer to the record for corner SE-350-600 for discussion of this stone.



Kenneth E. Hedge
 Kenneth E. Hedge, County Surveyor

James S. Swift
 James S. Swift, IN LS 20200054
 July 14, 2010

Worth Township

Section 24 T18N, R1E	Section 19 T18N, R2E
Section 25 T18N, R1E	Section 30 T18N, R2E

SECTION CORNER RECORD

SE 400-650

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (NSRS 2007):

North: 1725228.12 East: 3159388.93 (U.S. survey feet)

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

Depth: One inch below adjacent road surface

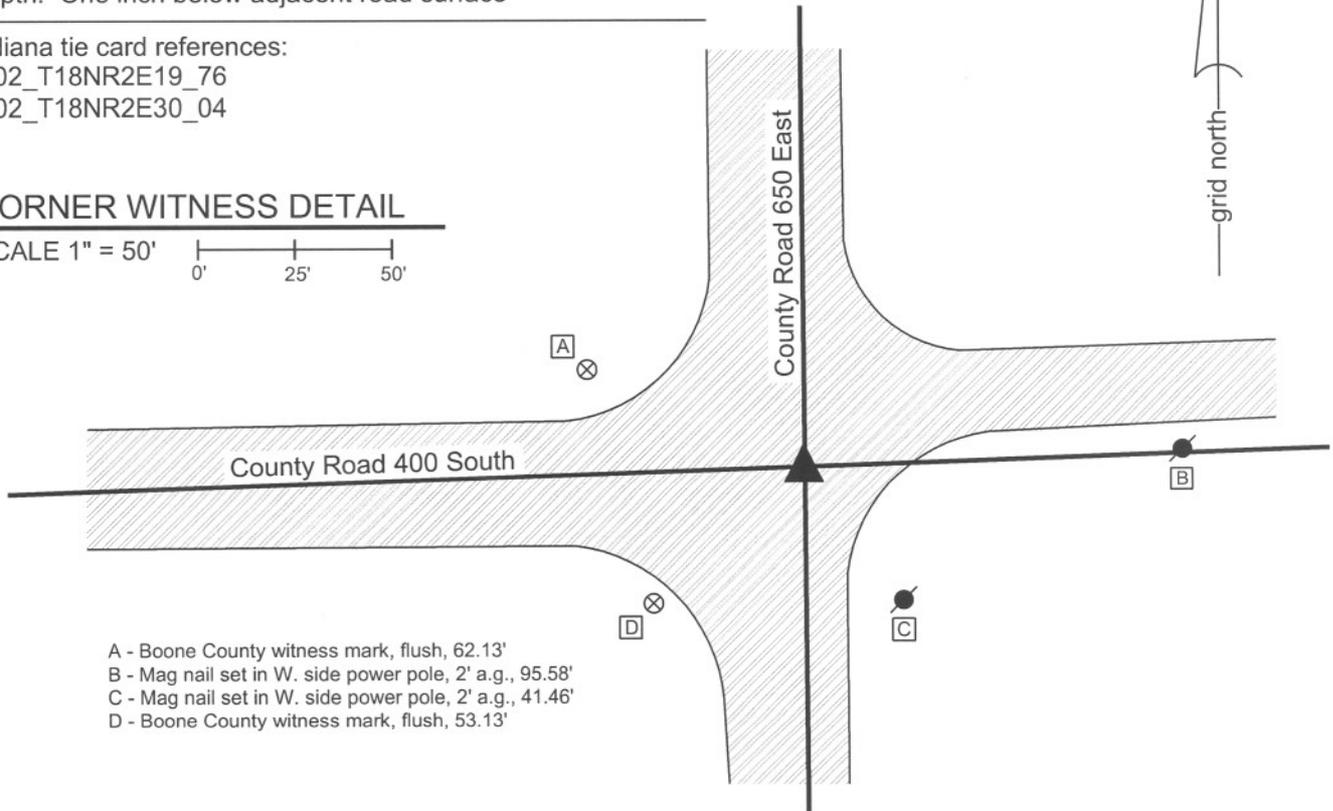
Indiana tie card references:

IN02_T18NR2E19_76

IN02_T18NR2E30_04

CORNER WITNESS DETAIL

SCALE 1" = 50'

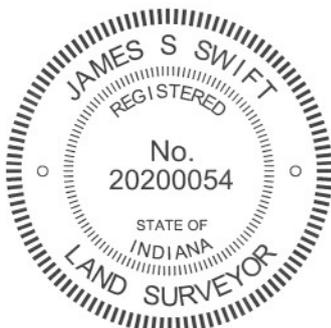


- A - Boone County witness mark, flush, 62.13'
- B - Mag nail set in W. side power pole, 2' a.g., 95.58'
- C - Mag nail set in W. side power pole, 2' a.g., 41.46'
- D - Boone County witness mark, flush, 53.13'

The harrison monument was set in place of a PK nail found.

A BCS record of March 15, 1868 states "Reestablished from the intersection of the four lines. Set R, from which....." No recent BCS tie cards were found referencing this corner.

This corner was excavated on August 14, 2009. Prior to excavation, a mag nail was found in the approximate center of County Road 650 East, at what is believed to have been the intersection with the old roadway of County Road 400 South to the west, prior to reconstruction associated with the Walker Farms Development. Excavation revealed a PK nail found at 6 inches below grade, 0.1' south and 0.3' east of the mag nail. Further excavation revealed various additional pieces of evidence, none of which could be accepted as determining the position of the corner. Several medium sized rocks were found 2 feet, more or less, north of the nails. None of these rocks bore the typical characteristics of stones found marking other corners. Various pieces of wood were found, including a discernable pattern of horizontal pieces of wood, oriented perpendicular to the north-south roadway. These pieces of wood were found at depths of 28 to 32 inches and were generally embedded in the clay layer below the road bed. The pieces of wood appeared to represent an old "corduroy" road and were accepted as evidence that the old wagon road tended to be wet and muddy in this area. The existence of the wood pieces and evidence of the corduroy road may explain why the record corner stone was not found, as the stone may have been removed or displaced by activities associated with stabilizing the road bed. An area of excavation being 32 inches E-W at the north end, 58 inches E-W at the south end and 4.5 feet north south, centered N-S on the found nails, with the west line at 2 feet west of the nails and the east line at a northwesterly angle, was excavated to the clay layer below the road and the horizontal pieces of wood. Excavation was not extended further east due to the presence of a fiber optic line, as marked by IUPPS. The found PK nail was accepted as the best available evidence of the corner. The PK nail fits with surrounding corners and is shown as the corner on the plats and preliminary surveys for the Walker Farms development. The PK nail was replaced with a harrison monument at the same position.



Kenneth E. Hedge
 Kenneth E. Hedge, County Surveyor

James S. Swift
 James S. Swift, IN LS 20200054
 March 30, 2012

Worth Twp

Section 19
T18N, R2E



Section 30
T18N, R2E

SECTION CORNER RECORD

BOONE COUNTY SURVEYOR'S OFFICE

SE 400-700

State Plane grid coordinates NAD83 (NSRS 2007):

North: 1725318.25 East: 3162053.92 (U.S. survey feet)

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

Depth: Two inches above adjacent ground

Indiana tie card references:

IN02_T18NR2E19_80 IN02_T18NR2E20_72

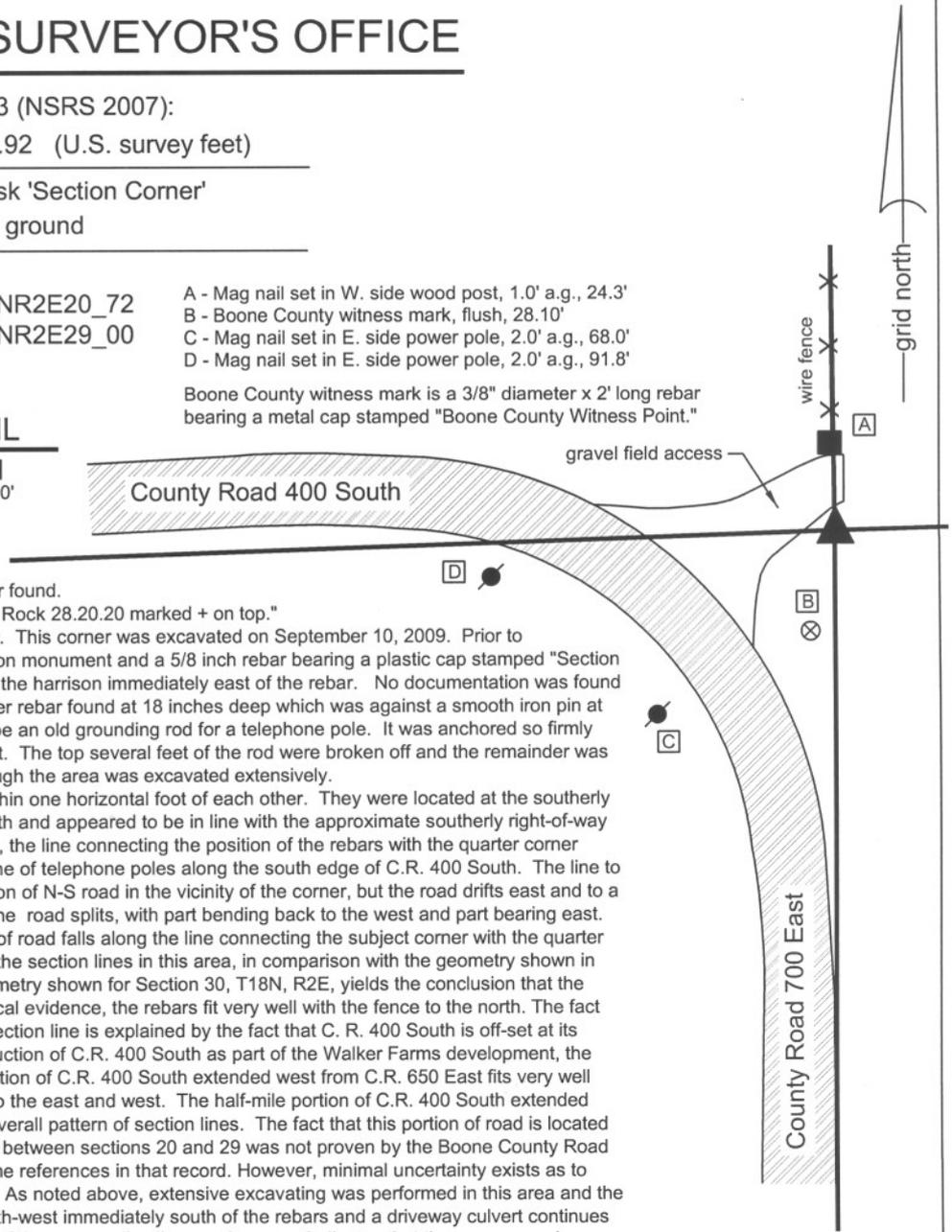
IN02_T18NR2E30_08 IN02_T18NR2E29_00

- A - Mag nail set in W. side wood post, 1.0' a.g., 24.3'
- B - Boone County witness mark, flush, 28.10'
- C - Mag nail set in E. side power pole, 2.0' a.g., 68.0'
- D - Mag nail set in E. side power pole, 2.0' a.g., 91.8'

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

CORNER WITNESS DETAIL

SCALE 1" = 50'



The harrison monument was set in place of a rebar found. A BCS record of 1866 states "ReEstablished Set a Rock 28.20.20 marked + on top." No recent BCS tie cards were found for this corner. This corner was excavated on September 10, 2009. Prior to excavation, two monuments were visible: a harrison monument and a 5/8 inch rebar bearing a plastic cap stamped "Section Corner." The two monuments were adjacent, with the harrison immediately east of the rebar. No documentation was found for these monuments. Excavation revealed another rebar found at 18 inches deep which was against a smooth iron pin at the same depth. The smooth iron pin appears to be an old grounding rod for a telephone pole. It was anchored so firmly and deeply that an excavator was not able to pull it. The top several feet of the rod were broken off and the remainder was left in place. The record stone was not found, though the area was excavated extensively. The various found monuments were all located within one horizontal foot of each other. They were located at the southerly prolongation of an old north-south fence to the north and appeared to be in line with the approximate southerly right-of-way of County Road 400 South to the west. Physically, the line connecting the position of the rebars with the quarter corner one-half mile west falls immediately south of the line of telephone poles along the south edge of C.R. 400 South. The line to the south from the rebars is east of the short section of N-S road in the vicinity of the corner, but the road drifts east and to a point approximately one-eighth mile south where the road splits, with part bending back to the west and part bearing east. At this point, the intersection of the three portions of road falls along the line connecting the subject corner with the quarter corner one-half mile south. Extensive analysis of the section lines in this area, in comparison with the geometry shown in the BCS "Surveyor's Record," particularly the geometry shown for Section 30, T18N, R2E, yields the conclusion that the rebars are in a reasonable position. In terms of local evidence, the rebars fit very well with the fence to the north. The fact that the east-west section of road is north of the section line is explained by the fact that C. R. 400 South is off-set at its intersection with C. R. 650 East. Prior to reconstruction of C.R. 400 South as part of the Walker Farms development, the road was offset by approximately 19 feet. The portion of C.R. 400 South extended west from C.R. 650 East fits very well with the overall pattern of section lines extended to the east and west. The half-mile portion of C.R. 400 South extended east from C.R. 650 East clearly falls north of the overall pattern of section lines. The fact that this portion of road is located entirely in section 20, rather running along the line between sections 20 and 29 was not proven by the Boone County Road record due to difficulties with the indexing and name references in that record. However, minimal uncertainty exists as to which portion of the road is along the section line. As noted above, extensive excavating was performed in this area and the record stone was not found. A side ditch runs north-west immediately south of the rebars and a driveway culvert continues northwest to the west of the rebars. The analysis of the surrounding lines and corners indicates that the corner may be up to 6 feet south and up to 12 feet west. However, if the record stone were further west and south, within this area of uncertainty, it would fall within the side ditch, culvert or areas disturbed by the excavation thereof. Although it appears that the found rebars may have been set in their precise position due to the presence of a grounding rod for a power pole, they do generally fit with surrounding evidence and have been held for the known surveys in the area. The lower rebar, found adjacent to the smooth iron pin, was held as the specific location for the corner. The harrison monument had been 0.3 of a foot south of this and the capped rebar was the same amount south and also 0.4 of a foot west. 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 14, 2010

