

PREPARED BY: BLACK HAWK COUNTY ENGINEERS OFFICE
316 E. FIFTH STREET, ROOM 211 WATERLOO, IOWA 50703

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SLSI 9-94
BHCO 03-09

UNITED STATES PUBLIC LAND SURVEY CORNER CERTIFICATE OF
Land Survey Monuments situated in Section 9, Township 90 N,
Range 14 W, of the Fifth Principal Meridian, BLACK HAWK County, Iowa.
Previously recorded in File Book 2010, Page 05789, in County Recorder's Office.

(Show reason for preparing this certificate): The corner monument has been Replaced or Modified, per Ia. Code 355.11(1)(c)

(Evidence and detailed procedures used in establishing the corner position(s) and monumentation found or placed.)

Monument Description and Remarks: N.E. COR. N.W.1/4-S.W.1/4;
PRIOR TO H.M.A. RESURFACING PROJ. (#STP-S-C007(106)--5E-07), FOUND 5/8" REBAR PER
CURRENT RECORD & TEMP. REF. PER RTK GPS. B.H. CO. ENG. HISTORICAL TIES OF 5/1983
DO NOT DENOTE MONUMENT DETAILS, AND NOT REFERENCED IN CURRENT RECORD (UPDATED).
EXISTING A.C.C. MILLED -2" w/SOUNDING @ ± RTK REF. LOCATION. EXCAVATED TO -12" DP.
& FND. #5 RBR. FULLY BENT OVER TO EAST, WITH BEND IN REBAR @ 4'-5" L. WITH NO
STUB REBAR REMAINING. ORIG. RTK REF. CORNER LOCATION HELD. RESURFACED w/ +4"
(2" INT. & 2" SURF.) H.M.A. PAVING. AFTER H.M.A. RESURFACE, RESET 5/8"x±7"L. (#5)
REBAR AT ±0.70' EAST OF C.L. PAVING JOINT. DEFL. (CORNER) ANGLE DENOTED FOR 16th
LINE TO N. & S. PER COGO OF RTK GPS MEAS. CORNERS (AS OBSERVED).

PLAN VIEW

"NOT TO SCALE"

BHco Hist. Ties: BK. #1003 p. "D" T90-R14

FIELD BOOK: Ties per Topcon 7003i #Z0115

(Show a minimum of three reference ties to durable physical objects, relevant monuments and physical conditions that will enable recovery of the corner.)

- 1.) TIES PER EDM MEASURE IN EITHER PRISM
"OR" NON-PRISM MODE, WHILE UTILIZING
"INDIRECT" MEASURE, WITH ALL DISTANCES
PLUMB/HORIZ. (HD), UNLESS DENOTED.
- 2.) SECTION LINE MEASURE REFERS TO
"LOCAL GROUND" DISTANCE AND INCLUDES
ELLIPSOIDAL (COMBINED) SCALE FACTOR
FROM S.P.C. GRID INVERSE (AS OBSERVED),
PER AVG. SCALE FACTOR = 1.000092724798
FROM TopSURV@ V8.1 w/ORIGIN POINT @
GPS MON #90 NAD83(NSRS2007).
- 3.) R. = DENOTES PREV. CORNER CERT. MEASURE.

UTIL. FND. BRASS
L.S. TAG #16264 @
TOP CENTER OF WOOD
R.O.W. FNC. POST.

FND. CUT "X"
@ TOP 36"Ø
R.C.P. APRON
(REFRESHED).

S.P.C., Ia. N. Zone, USft

N = 3690954.80

E = 5187942.40

GRID SCALE FACTOR = 0.99994570

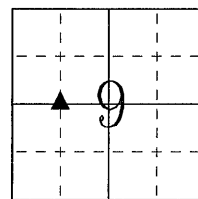
CONVERGENCE = 0° 40' 18"

(NAD83-NSRS2007 "BHco07", RTK OBS.)

C.W. 1/16th Cor.
SECT. 9-T90-R14
(per Updated Cert.)

W. 1/16th
Cor. (N.) #5 Rbr.
SECT. 9-T90-R14,
per FILE
2011-02255.

(P.) = PLATTED DIMENSION
PER PLAT OF SURVEY IN
MISC. BOOK 318 p.504 OF
B.H. CO. RECORDER RECORDS,
w/ PREV. RECORD DENOTES
"OTHER" PLAT REFERENCE.



T 90 N



UTIL. FND. BRASS L.S.
TAG #16264 @ W. FACE
UTIL. POLE (vs. CUR.
RECORD AS "X" NAILS).

UTIL. PREV. TIE @
1½"Ø LIFTING HOLE
TOP 36"Ø R.C.P. APRON.

UTIL. FND. BRASS L.S.
TAG #16264 @ W.
FACE UTIL. POLE.

FIELD SURVEY: G.T. & S.S. 9/29/11

PREPARED BY: S.S. & G.T. 11/2/11

CERTIFICATION

I hereby certify that this land surveying document
was prepared and the related survey work was
performed by me or under my direct personal
supervision and that I am a duly licensed Land
Surveyor under the laws of the State of Iowa.

Geoffrey Allen Tinker 11/02/2011
Geoffrey Allen Tinker (date)

License Number 15748

My license renewal date is December 31, 2012

Pages or sheets covered by this seal:

This Land Corner Certificate Only.

LIST CORNERS TO BE INDEXED

Corner	Section	Township	Range
N.E. Cor.	9	90 N	14 W
NW1/4-SW1/4			
= C.W. 1/16th	9	90 N	14 W

INDEX OF ABBREVIATIONS

(M) = "Measured" Dimension
(P) = "Platted" Dimension
(R) = "Record" Dimension
(C) = "Calculated" Dimension
"IGS" = Iowa Geodetic Survey
"WPA" = Works Progress Admin. Survey
"G" = per George Miller Survey (BHco Surveyor 1858-1860)
"B" = per John Ball Survey (BHco Surveyor 1866-1891)
"N" = per Nathan Barber Survey (BHco Surveyor 1908-1931)

"NP" = Reflectorless EDM Meas.
"MLM" = Indirect Measure
"CM" = Concrete Monument
"SM" = Survey Marker Spike/Tag
"PK" = PK/MAG Nail Brand Style