

PREPARED BY: BLACK HAWK COUNTY ENGINEERS OFFICE
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SLSI 9-94
BHCO 03-09

UNITED STATES PUBLIC LAND SURVEY CORNER CERTIFICATE OF
Land Survey Monuments situated in Section 16, Township 90 N, Range 14 W, of the Fifth Principal Meridian, BLACK HAWK County, Iowa.
Previously recorded in Misc Book 333, Page 308, 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-N.W.1/4;
PRIOR TO H.M.A. RESURFACING PROJ. (#STP-S-C007(106)--5E-07), FOUND 5/8" REBAR PER "KNOCK ADDITION" FINAL PLAT IN PLAT BOOK 29 p.231 (vs. CUR. COR. CERT. AS "NAIL") & TEMP. REF. PER RTK GPS. EXISTING A.C.C. MILLED -2", w/ NO SOUNDING REMAINED @ ± RTK REF. LOCATION. AT ±1' S. OF RTK REF., EXCAVATED TO ±0.50' DP. TO FND. 20d NAIL. ALSO NOTED REMAINING SOUNDING @ ±0.80' N. & 1.1' W. OF ORIG. RTK REF. COR. LOC. w/NO EXCAVATION DONE. RESURFACED w/+4" (2" IN. & 2" SURF.) H.M.A. PAVING. AFTER H.M.A. RESURFACE, RESET 5/8"x±8"L. (#5) REBAR LOC. AT ±1.05' EAST OF C.L. PAVING JOINT AND ALIGNED ± WITH C.L. OF CEDAR WAPSI ROAD TO EAST & WEST. 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: per Proj. Plans #C613 (62)
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 "1962" RECORD PLAN DISTANCE.
R. = DENOTES PREV. CORNER CERT. MEASURE.

SET PK w/ METAL WASHER @ S. FACE L.P. (NEW UTIL. POLE)

FND "X" NAILS IN N.E. FACE P.P.

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

(P.) = PLATTED DIMENSION PER "KNOCK ADDITION" FINAL PLAT IN PLAT BOOK 29 p.231 OF CO. RECORDER RECORDS.

FND "X" NAILS IN S.W. FACE P.P. (REFRESHED)

W. CEDAR-WAPSI RD. (A.C.C.)

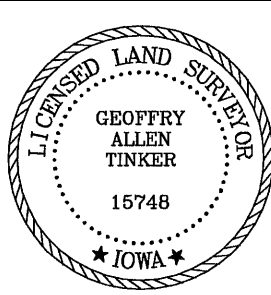
FND "X" NAILS IN N.E. FACE P.P.

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

S.P.C., Ia. N. Zone, USft
N = 3688305.80
E = 5187953.20
GRID SCALE FACTOR = 0.99994581
CONVERGENCE = 0° 40' 18"
(NAD83-NSRS2007 "BHco07". RTK OBS.)

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. NW1/4-NW1/4	16	90 N	14 W
= W. 16th (N.)	16	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 1858-1880)
- "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