

Doc ID: 004991590001 Type: GEN Kind: CORNER Recorded: 12/05/2012 at 01:42:47 PM Fee Amt: \$0.00 Page 1 of 1 Black Hawk County Iowa

JUDITH A MCCARTHY RECORDER

File 2013-00011529

PREPARED BY: \*\*BLACK HAWK COUNTY ENGINEERS OFFICE 316 E. FIFTH STREET, ROOM 211 WATE

WATERLOO, IOWA 50703 PH.# (319) 833-3008 FAX.# (319) 833-3139

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 File 2010, Page 13582, 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. 1/4 CORNER: CORNER RESET & TIES UPDATED PER H.M.A. RESURF. PROJECT LFM-503--7X-07. PRIOR TO RESURF. PROJECT, FOUND #4 (1/2") REBAR w/ ORANGE PLASTIC CAP #9671. PER CURRENT PRIOR TO AFTER 1.5" DP. MILL & REFILL RECORD AND TEMP. REF. COR. LOCATION PER RTK GPS. AFTER 1.5" DP. MILL & REFILL W/INTERMED, COURSE H.M.A., RECORD #4 REBAR WITH CAP REMAINED INTACT AND STABLE. ADDITIONAL 1.5" H.M.A. SURFACE COURSE COVERED EXISTING CORNER. AFTER RESURF., RESET CORNER WITH "MAG" NAIL & METAL WASHER OVER EXIST, #4 REBAR PER RTK GPS REFERENCE, CORNER LOCATED (±) C,L, H,M,A, PAVING JOINT AND ALIGNED ±2.5' EAST OF EXISTING FENCE LINE TO NORTH.

## PLAN VIEW "NOT TO SCALE"

BHco Hist. Ties: <u>BK. #1003 p. 16 T90-R14</u> 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.)

- TIES PER EDM MEASURE IN EITHER PRISM "OR" NON-PRISM MODE, WHILE UTILIZING "INDIRECT" MEASURE, WITH ALL DISTANCES PLUMB/HORIZ. (HD), UNLESS DENOTED. 1.>
- SECTION LINE MEASURE REFERS TO "LOCAL GROUND" DIST, AND INCLUDES ELLIPSOID (COMBINED) SCALE FACTOR FROM S.P.C. GRID INVERSE (AS OBSERVED), PER AVG. SCALE FACTOR = 1.000093804492.

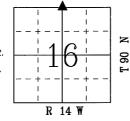
1969 PLAN DISTANCE OF 875.5' FROM LAND CORNER TO EAST P.I. & 1961 PLAN DEFLECTION OF 16°00' RT. @ P.I. WERE "HELD" TO ESTABLISH P.I. EAST OF CORNER. NOTE P.I. IS "NOT" ON NORTH LINE OF N.E. 1/4 SECT. 16. REFER TO PLAT OF SURVEY PER FILE 2012-0018807 AND USPLSCC FOR N.E. CORNER SECT. 16 PER FILE 2012-0021267 FOR ADDITIONAL DETAILS.

ENTR. (GRAVEL)

RES.

96

38



N.E. COR.

C.L. C57

SECT, 16-T90-R14

(per File 2012-0021267

(P.)

SET CUT "X" @ TOP

2607.21

CEDAR-WAPSI RD.

(File 2012-018807 & 2607.13' R.)

15"ø R.C.P.

(<u>P.)</u> = per Minor Plat (Knock Addition) in File 2010-SECT. 17-T90-R14 (per Updated Cert.) 0013581. UTIL. FND. "X" NAILS @ S.- S.E. FACE GATE POST 1323.69′ (M.)  $\tilde{\omega}_{\tilde{\sigma}}$ WPA 1941) (vs. 1323.7' @ ±2.4' HT. **50,7**;

W. 1/16th (N.) COR. SECT. 16-T90-14 (per File 2012-00008202)

(vs. 2648.9'

(vs. 1320,45' P. & 1325.2' WPA 1941)

1320.44' (M.)

(143.18)

(H.M.A.) 2644.13' (M.) 875.5′ (M.&R.) WPA 1941)

179°58′30°(M.)

 $\Delta = 16'00' \text{ RT.}$ R=1500.00' L=418.88'

P.I. (Set #5 Rbr.)

S.P.C., la. N. Zone, USft N = 3688283.80E = 5189273.19

LAND

GEOFFRY ALLEN TINKER

\* IOWA

UTIL. FND. "X" NAILS @ N.E. FACE P.P. @ ±3.7' HT.

(S.L. to C.L.)
Δ=0"01"30" RT. (to C.L.) CALC.
per 1969 C.L. GEOM. DETAILS
AS RE-ESTABLISHED FOR PROJECT
TO N.E. COR. SECT. 15-T90-R14.

UTIL. FND. "X" NAILS @ N.W. FACE P.P. @ ±4' HT.

CONVERGENCE = 0° 40' 29" (NAD83-NSRS2007 "BHco07", RTK OBS.)

179°59'36"(M,)

\_AG. CROPS FIELD SURVEY: PREPARED BY:

S.S. & G.T. 12/5/12

**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 lowa. 12/05/2012 Wer fur offry Allen Tinke (date)

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

Section -Corner Township Range N. 1/4 Cor. 16 90 N 14 W S. 1/4 Cor. 90 N 14 W

## INDEX OF ABBREVIATIONS

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

= "Measured" Dimension
= "Platted" Dimension
= "Record" Dimension
= "Calculated" Dimension
= "Calculated" Dimension
S" = Iowa Geodetic Survey
A" = Works Progress Admin. Survey
= per George Miller Survey (BHco Surveyor 1858–1860)
= per John Ball Survey (BHco Surveyor 1866–1891)
= per Nathan Barber Survey (BHco Surveyor 1908–1931)

"WPA"