

Fee Amt: \$0.00 Page 1 of Black Hawk County Iowa SANDIE L. SMITH RECORDER

File 2016-00013983

PH.# (319) 833-3008 FAX.# (319) 833-3139 BLACK HAWK COUNTY ENGINEERS OFFICE PREPARED BY: WATERLOO, IOWA 50703 316 E. FIFTH STREET, ROOM 211 UNITED STATES PUBLIC LAND SURVEY CORNER CERTIFICATE OF Land Survey Monuments situated in Section\_\_ 36 , Township<u>90 N</u> Range 11 W, of the Fifth Principal Meridian, BLACK HAWK County, Iowa. Previously recorded in Fee Book 2003-22984, 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: W. 1/16th COR., NORTH:
CORNER RESET & TIES UPDATED PER PAVEMENT WIDENING AND H.M.A. RESURF, PROJECT
LFM-1019--7X-07, PRIOR TO RESURF, PROJECT, FOUND LEAD PLUG PER CURRENT RECORD AND TEMP, REF, COR, LOCATION PER RTK GPS. SOUNDING REMAINED @ ± RTK REFERENCE PVMT. RESURFACED w/ +6" (3" BASE, 1.5" INT. & 1.5" SURF.) H.M.A. PAVING. AFTER H.M.A. RESURFACE, RESET CORNER WITH 6"L. MAG SPIKE w/ MTL. WASHER (PLS #15748) LOCATED & ±2.7' NORTH OF H.M.A. JOINT AND ALIGNED WITH C.L. SIDE ROAD TO NORTH. BHCO. RECORD TIES (BK. #1007 REF.) DATED OCT. 1950 THE SET IRON PIN AT 0.3' DEEP" REMAINING 1974 RECORD TIES FOUND. AND RETIED, WITH ″N□″ Page #1BHco Hist. Ties: BK. #1003 p. "E" 90-11 TopSurv Project Point: #2284 PLAN VIEW FIELD BOOK: Ties per Topcon 7003i #Z0115 "NOT TO SCALE" (Show a minimum of three reference ties to durable physical objects, relevant monuments and physical conditions that will enable recovery of the corner.) RCP TIES PER RTK GPS (IQRTN-NA11).
REMAINING TIE PER EDM MEASURE IN
NON-PRISM MODE, WHILE UTILIZING
"INDIRECT" MEASURE, WITH ALL
DISTANCES PLUMB/HORIZ. (HD),
UNLESS DENOTED. 1.) RD DUFFY RI (Gravel) -AG. CROPS-90 SECTION LINE MEASURE REFERS
TO "LOCAL GROUND" DIST. AND
INCLUDES ELLIPSDIDAL (COMBINED)
SCALE FACTOR FROM S.P.C. GRID
INVERSE (AS OBSERVED, PER AVG.
SCALE FACTOR = 1.000093420359) 2.) FND. S.M. TAG @ w/ NAIL @ W. FACE P.P. ±76" HT. R 11 W PHONE PEDS. N. 1/4. C□R. SECT. 36-T90-R11 er Updated Cert.) <u>179°58′02″(M.)</u> (vs. 179°58′06″ CDR. (TopSurv #1029) SECT. 35-T90-R11 (per Fee Bk. 2003-22983) R.) SECTION LINE 1320.14 (M.)1323.11 (M.) (vs. 1320.03' R.) (v<u>s.</u> 1<u>323,32</u>′ TANG. SECTION LINE C.L. H.C. (WPA N/A) DUNKERTON RD. 1801.49 (M. (H.M.A.) (vs. 1801.35' CURVE DATA: P.I. (p. #2) SET 6'L. MAG SPIKE w/ MTL. WASHER (PLS #15748) @ ±1.60' S. DF H.M.A. JNT. 51.66′  $\Delta = 2^{\circ}06'17'' \text{ RT. (M.)}$   $D = 0^{\circ}24'30'' \text{ HELD} (1974)$  R = 14,031.62'63.18 (51.87' R.) (63.12' R.) L = 515.42 (500.00' 1974) T = 257.74' RESET CUT "X"? TOP 24"Ø R.C.P. (ORIG. NOT FND.) FND. CUT "X" @ TOP R.C.P. 24**"**ø CH= 515.39 PHONE PET ENTR. S.P.C., la. N. Zone, USft N = 3673767.83E = 5299204.01RES. #12238 GRID SCALE = 0.99994682 CONVERGENCE = 0° 57' 04" FIELD SURVEY: 09/11/15 S.S. & G.T. (NAD83-2011 IARTN OBS.) PREPARED BY: S.S. 2/10/16 LIST CORNERS TO BE INDEXED CERTIFICATIONSection -Township -Corner 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 N.E. Cor. NW1/4-NW1/4 36 90 N 11 W LAND S.E. Cor. SW1/4-SW1/4 25 90 N 11 W

GEOFFRY

TINKER

\* IOWA \*

Geoffry Allen Tinker

License Number

15748

This Land Corner Certificate Only, 3pp.

My license renewal date is December 31, 2016

Pages or sheets covered by this seal:

Dimension

"Measured" Dimension
"Platted" Dimension
"Record" Dimension

"Calculated

INDEX OF ABBREVIATIONS

= Calculated Dimension SM = Survey Marker Specified Survey "PK" = PK/MAG Nail Brail = Works Progress Admin. Survey [BHco Surveyor 1858-1860] = per John Ball Survey (BHco Surveyor 1866-1891) = 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/MAC Nail Brand Style

UNITED STATES PUBLIC LAND SURVEY CORNER CERTIFICATE OF <u>36</u> , Township <u>90 N</u> Land Survey Monuments situated in Section\_\_\_\_ Range  $\underline{\phantom{a}}$  11  $\underline{\textbf{W}}$  , of the Fifth Principal Meridian,  $\underline{\phantom{a}}$  BLACK HAWK County, Iowa. Previously recorded in Misc. Book N/A, Page N/A, in County Recorder's Office.

(Evidence and detailed procedures used in establishing the corner position(s) and monumentation found or placed.) Monument Description and Remarks: <u>CONTINUED: PAGE #2 of 3</u>

REFERENCE TIES TO P.I. WEST OF SAID SECTION CORNER. P.I. RESET & TIES UPDATED

PER PAVEMENT WIDENING AND H.M.A. RESURF. PROJECT LFM-1019--7X-07. PRIOR TO

RESURF. PROJECT, FOUND CUT "X" IN P.C.C. PAVING AND TEMP. REF. LOCATION PER RTK

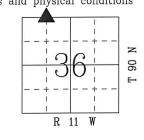
GPS. AFTER FULL DEPTH REMOVAL, PLACED +6" SUBBASE AND FULL DEPTH PVMT. W/+6" (3" BASE, 1.5" INT. & 1.5" SURF.) H.M.A. PAVING. AFTER H.M.A. PAVING, RESET P.I. REFERENCE WITH 6"L. MAG SPIKE W/ MTL. WASHER (PLS #15748) LOCATED @ ±1.6' SOUTH OF H.M.A. JOINT. P.I. REFERENCE IS INCLUDED WITH CORNER TIE FOR PUBLIC RECORD OF ROADWAY GEOMETRY.

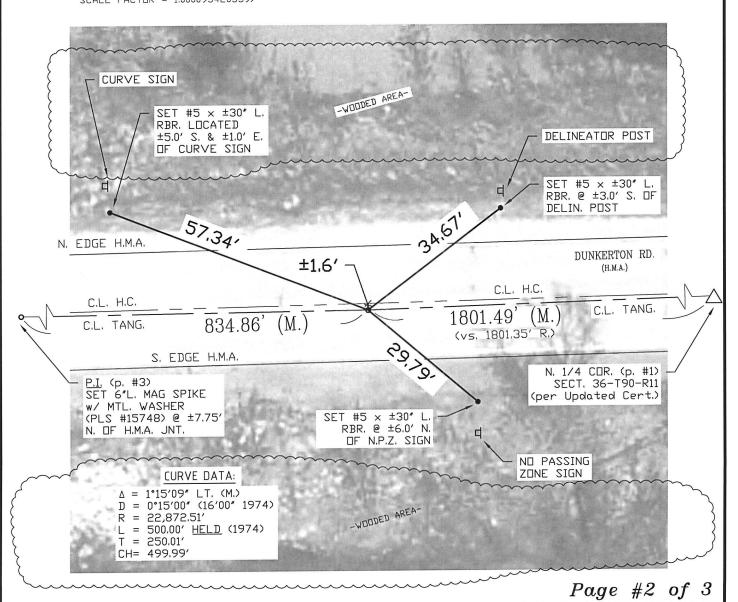
## TopSurv Project Point: #2283

FIELD SURVEY: 9/11/15 S.S. & G.T PLAN VIEW 2/10/16 PREPARED BY: S.S. & G.T. "NOT TO SCALE"

(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 RTK GPS (IQRTN-NA11) MEAS., WITH ALL DISTANCES PLUMB/HORIZ. (HD), UNLESS DENOTED.
- SECTION LINE MEASURE REFERS
  TO "LOCAL GROUND" DIST. AND
  INCLUDES ELLIPSDIDAL (COMBINED)
  SCALE FACTOR FROM S.P.C. GRID
  INVERSE (AS DBSERVED, PER AVG.
  SCALE FACTOR = 1.000093420359) 2.)





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REFERENCE TIES TO P.I. WEST OF SAID SECTION CORNER, LOCATED EAST OF WAPSI.
RIVER BRIDGE. P.I. RESET & TIES ESTABLISHED PER PAVEMENT WIDENING AND H.M.A. RESURF. PROJECT LFM-1019--7X-07. PRIOR TO RESURF. PROJECT, FOUND LEAD PLUG IN P.C.C. PAVING AND TEMP. REF. LOCATION PER RTK GPS. AFTER FULL DEPTH REMOVAL, PLACED +6" SUBBASE AND PVMT. RESURFACED w/ +6" (3" BASE, 1.5" INT. & 1.5" SURF.) H.M.A. PAVING. AFTER H.M.A. RESURFACE, RESET P.I. REFERENCE WITH MTL. WASHER (PLS #15748) LOCATED @ ±7.8' NORTH OF H.M.A. JOINT. WITH 6"L. MAG SPIKE w/ P.I. REFERENCE INCLUDED WITH CORNER TIE FOR PUBLIC RECORD OF ROADWAY GEOMETRY.

## TopSurv Project Point: #2282

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  INVERSE (AS OBSERVED, PER AVG. 1.000093420359) SCALE FACTOR

