NE4 13-15-2W COUNTY

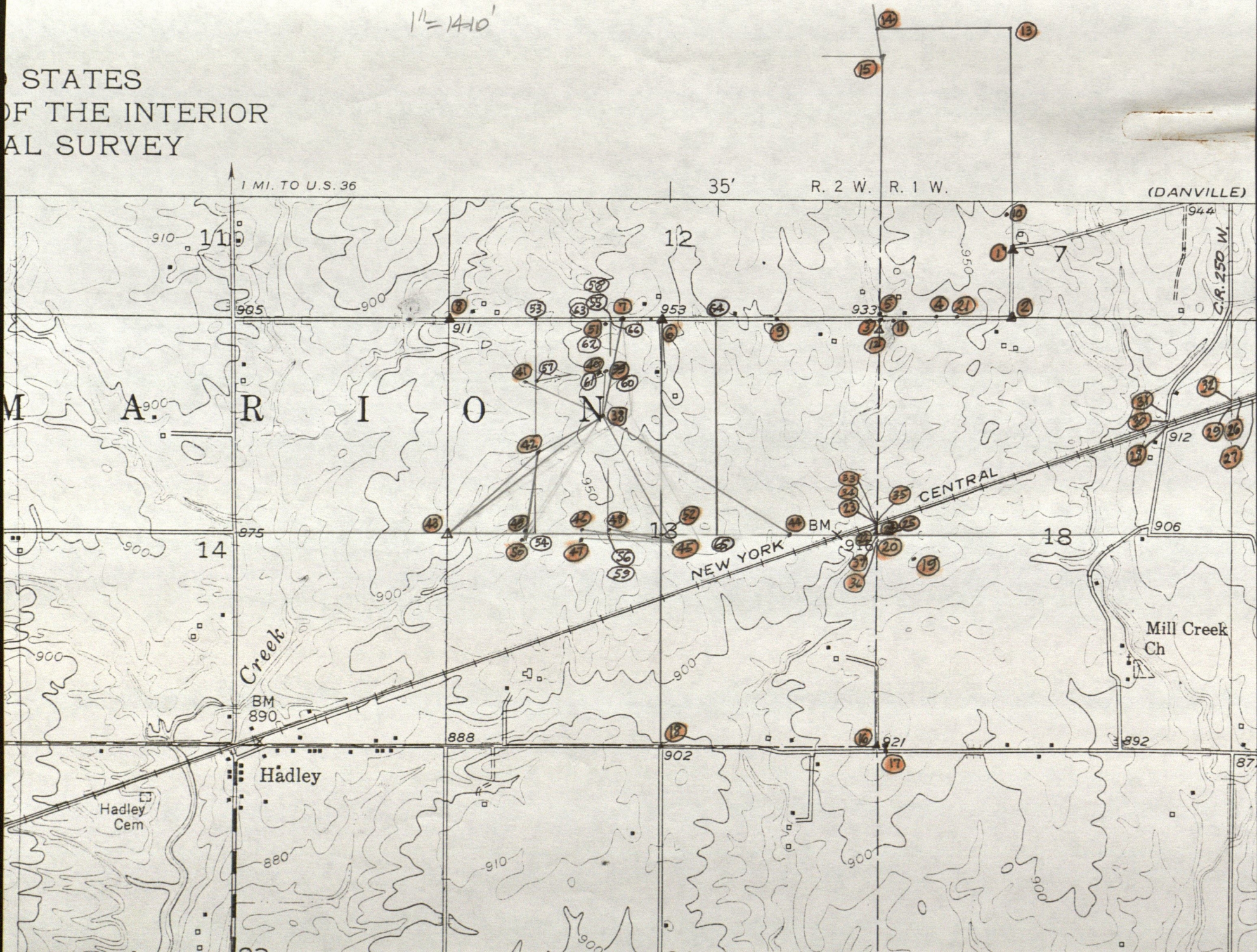
1505

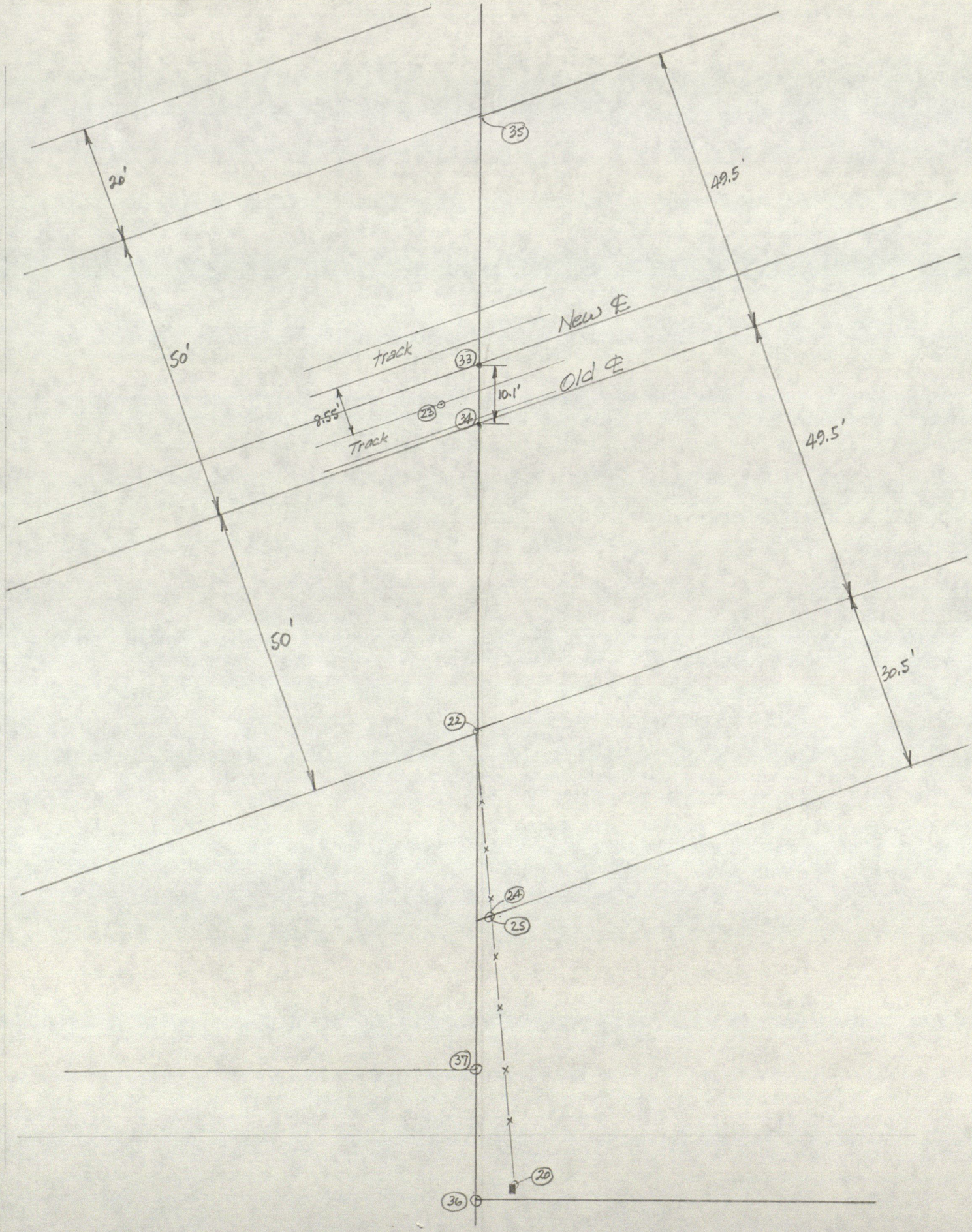
See also the 1993-94 Whisker survey.

NE 4/3-15-2W COUNTY

1" = 1410'

STATES
OF THE INTERIOR
AL SURVEY




35
20'
49.5'
New ℄
track
33
Old ℄
10.1'
8.55'
23
34
Track
50'
49.5'
50'
30.5'
22
24
25
37
20
36

JOB Hend. Co. in 7 & 18-15-1W
13-15-2W

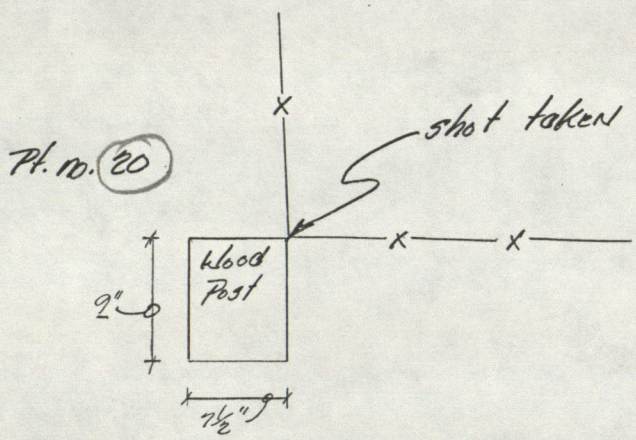
DESCRIPTIONS OF POINTS

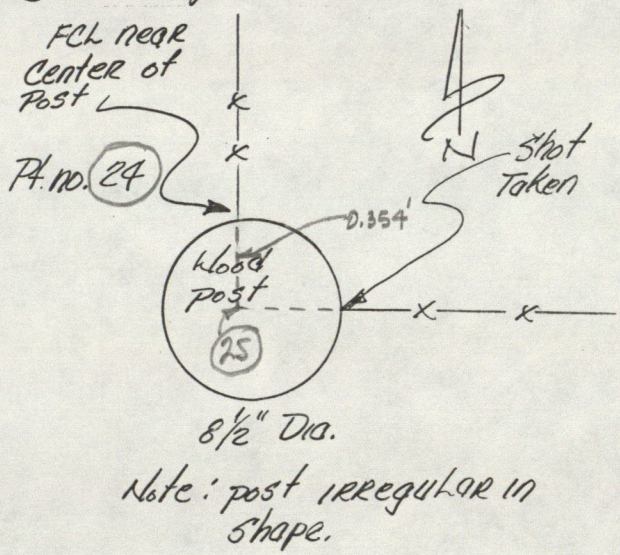
1 R.R. spike over stone about 52 rods N of 2
2 hole in upper of 2 stones at S. qtr. cor. 7-15-1W
3 SW cor. 7-15-1W
4 calc. position on ℄ 7-15-1W 40 rods E. of 3
5 temp. point in C.R. 100 S.
6 dimple in top of stone at N. qtr. cor. 13-15-2W
7 temp. point (P-K nail) on ½ NW¼ 13-15-2W
8 axle over stone at NW cor. 13-15-2W
9 approx. loc. of stone at NE cor. W½ NE¼ 13-15-2W
10 lightning rod atop silo - ref. object
11 temp. point (nail) in C.R. 100 S.
12 stone found at NE cor. 13-15-2W
13 N. qtr. cor. 7-15-1W as restored by me in 1977 Abrie survey
14 NW cor. 7-15-1W " " " " " " " "
15 NE " 12-15-2W " " " " " " " "
16 + on stone found at SE cor. 13-15-2W
17 temp. point several feet SE of 16
18 S½ Mi. 13-15-2W
19 temp. point in field in NW part SW¼ 18-15-1W
20 wood cor. post (NE cor.)
21 temp. point in C.R. 100 S.
22 NE face of N. cor. post of ℄ R.R. near range line
23 guage line N. rail E.B. track of R.R.
24 0.35' N. of ℄ S. cor. post of ℄ R.R. near range line
25 ℄ S. cor. post of ℄ R.R. near range line
26 ℄ between Conrail Tracks — Markey survey point 68
27 " " " " — " " " 69
28 new ℄ R.R. at C.R. 250 W. — " " " 124
29 " " " " ℄ Sec. 18 — " " " 143
30 old " " " ℄ C.R. 250 W. — " " " 125
31 49.50' NWLY ⊥ old ℄ R.R. at ℄ C.R. 250 W. — " " " 126
32 old ½ R/W R.R. at ℄ Sec. 18 — " " " 145

33 ℄ R.R. tracks at range line
34 ℄ old R.R. at " "
35 Clark's old cor. 11.24 R.N. of W¼ Mi. 18 (on range line 49.5' NWLY ⊥ old ℄ R.R.)
36 Calc. position of W¼ Mi. 18-15-1W
37 " " " E¼ Mi. 13-15-2W
38 temp. point
39 broken off fence post at E. side of field entrance - shot taken at W edge
40 " " " W. " " " " - " " " E "
41 old tree stump with wire wrapped around 5.0' E of N-S fence - shot at W edge
42 temp. point
43 W¼ Mi. Stone 13-15-2W found
44 SE side of wood cor. post (no wire) near E-W ℄ Sec. 13
45 temp. point E ward of cm. Sec. 13
46 1/4" I.P. found 2'± above ground
47 center of wood post
48 " " " " set in concrete
49 bent 5/8" rebar found
50 center of wood post (no wire)
51 " " N. side of wood post - fence S.
52 Cen. Sec. 13 - int. of straight lines connecting opposite quarter corners
53 On ℕ NW¼ 13 15.75 ch. E of NW cor. Sec.
54 " ℄ " " " " " " SW " NW¼
55 " ℕ " " 31.00 " " " NW " Sec.
56 " ℄ " " " " " " SW " NW¼
57 On ℄ W. 15.75 ch. of NW¼ Sec. 13 823.4' S. of 53
58 591.00' W. of N¼ Mi. stone 13
59 on ℄ NW¼ 17' W of 6'± S of 48
60 714.4' S of 58 on ℞
61 final prop. cor.
62 ℄ C.R. 100 S 616' W of ℄ NW¼ 13
63 616' W of 6
64 40 R E of 6
65 40 R E of 52
66 ℄ C.R. 100 S 591' W of ℄ NW¼ 13

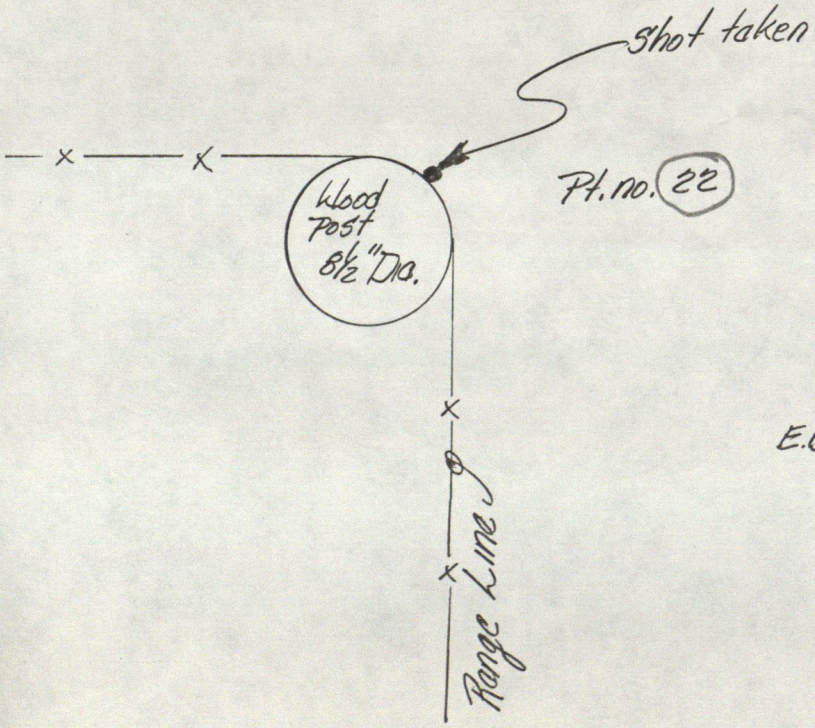
Post for Sec. 13T15R2W & Sec 18T15R1W

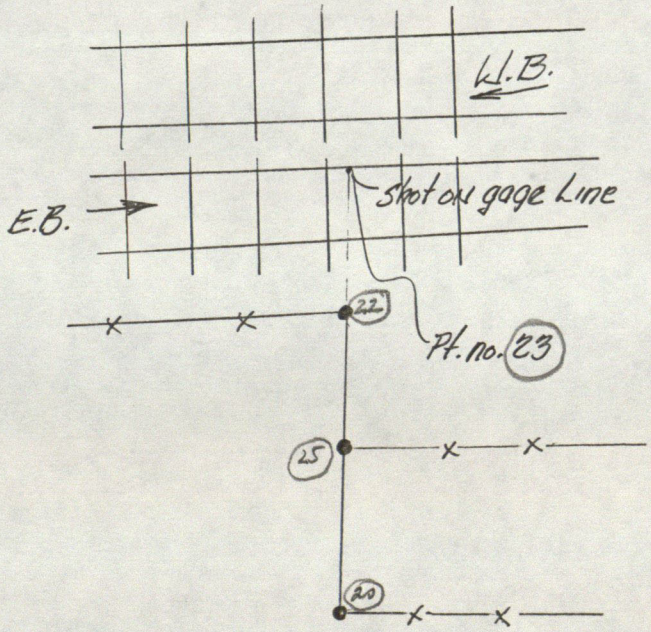
G. Niemeyer 12/21/93
© R. McElyea

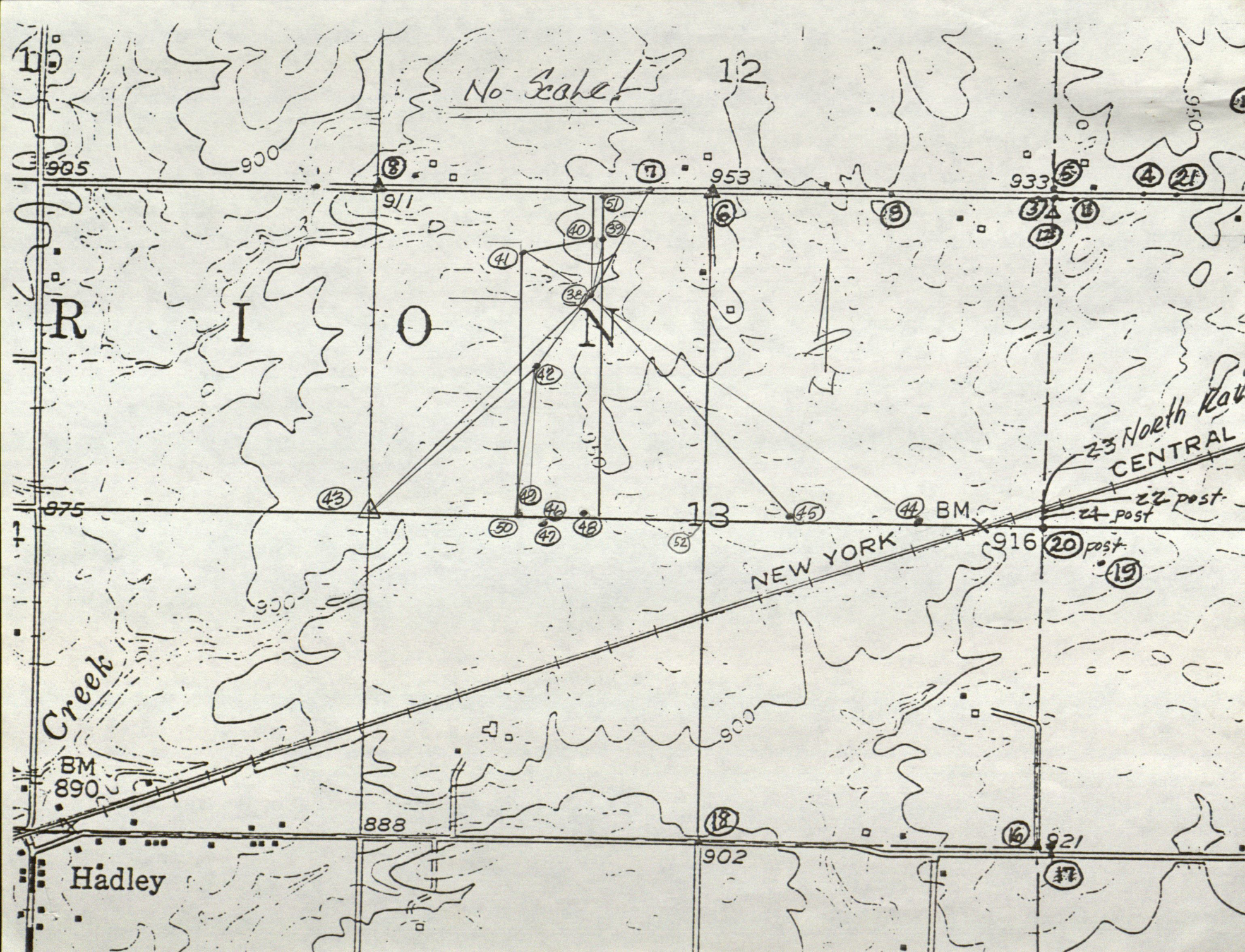




Note: post irregular in shape.






No Scale!
12
13
R I O N
905
900
911
953
933
950
975
916
921
902
888
890
BM
BM
NEW YORK
CENTRAL
23 North Rail
22 post
24 post
20 post
Creek
Hadley

SHEET 1 OF ____

Chester A. Parsons, PE

Stanley M. Shartle, PE LS

PARSONS & SHARTLE ENGINEERS, INC.

Job Hendricks Co. Date ____ Hg. 29.15 Temp. 38° F. ppm-6

	POINT	DIRECTION	OBSERVED HORIZ. DISTANCE	MEAN DISTANCE	
	1	0°00'00"	860.395 .380 .395 .395	860.391	
2	~~3~~	∡ Lt 89°41'11"	Angle Need to turn		
	4	89°41'11" Lt ∡	987.365 .377	987.371	
	5	89°41'11" Lt ∡	1643.110 .115	1643.112	1643.126
	10	348°31'45" ∡ Lt	Top Silage Bin		
	6	0°00'00"	412.510 .510 .510 .510	Stone 412.510	
7	8	180°00'00"	2238.535 .540 .540 .530	Axle 2238.536	
	9	0°00'00"	1745.665 .670 .670 .665	P.O. 1745.668	
	5	359°14'43"	3073.845 .840 .835 .845	3073.841	
	2	358°29'34" 359°14'47"0			

SHEET 2 OF ____

Chester A. Parsons, PE

Stanley M. Shartle, PE LS

PARSONS & SHARTLE ENGINEERS, INC.

Job Hendricks Co. Sec 13 Date 11/23/93 Hg. 28.95 Temp. 52° F. ppm +4

	POINT	DIRECTION	OBSERVED HORIZ. DISTANCE	MEAN DISTANCE	
	1	0°00'00"	—		
1	7	269°46'32"	4716.850 .840 .845 .840	4716.844	4716.888
	4	359°06'28" 269°46'37.0"			
2					
	11	269°40'51"	1625.490 .490 .490 .490	1625.490	
	4	358°43'12" 269°40'48.0"			
	5	270°18'23"	1643.145 .140 .140 .140	1643.141	1643.126
	4	1°13'52" 270°18'28.0"			
	2	0°00'00"	—		
11	5	225°44'31"	25.120 .120 .115 .115	25.118	
	12	127°37'54"	27.485 .480 .485 .485	27.484	

Chester A. Parsons, PE

SHEET 3 OF ____

Stanley M. Shartle, PE LS

PARSONS & SHARTLE ENGINEERS, INC.

Job Hend. Co. Sec 13 T15N R21W Date 12/13/93 Hg. 28.8 Temp. 34 °F. -4

	POINT	DIRECTION	OBSERVED HORIZ. DISTANCE	MEAN DISTANCE	
	17	0°00'00"	5410.705 .680 .695 .690	5410.693	5410.6945
21	7	81°34'01"	3854.720 .720 .715 .715	3854.718	
	4	326°15'54" 81°33'58.5"			
	2	262°15'20"	862.215 .220 .220 .220	862.219	
	4	329°01'31.4" 262°15'22.8"			
Dist only	A		2345.6 .6		
	B		1313.2 .2		
	C		1105.6		
	D		1341.5		
	E		2635.060		
12/20/93					
38° 28.45 ppm +0	21	0°00'00"	5410.700 .695 .700 .690	5410.696	5410.6945
			Previous day check ✓		
28° (28.7) ppm -2 12/21/93	21	0°00'00"			
	16	282°12'00"	41.440 .445 .440 .440	41.441	
	4	48°48'24" 282°12'06"			
17	19	353°31'51"			
	4	334°07'36" 353°31'54.0"	2503.045 .045 .045 .045	2503.045	2503.054
	18	262°31'29"	2690.815 .815 .820 .820	2690.818	
	4	339°06'04" 262°31'31.0"			

SHEET 4 OF ____

Chester A. Parsons, PE

Stanley M. Shartle, PE LS

PARSONS & SHARTLE ENGINEERS, INC.

Job Wicker Ellend. Co. Sec 13 T15 R24W Date 12/21/93 Hg. 28.7 Temp. 28 °F.

POINT	DIRECTION	OBSERVED HORIZ. DISTANCE	MEAN DISTANCE
17	0°00'00"	2503.060 .065 .060 .065	2503.063
22	155°39'52"	257.850 .860 .860 .855	257.856
2	311°19'47" 155°39'53.5"		
23	158°35'22"	312.265 .265 .265 .265	312.265
4	274°21'40" 158°35'25.0"		
24	153°10'00"	228.175 .180 .180 .180	228.179
2	306°20'03" 153°10'01.5"		
20	148°17'26"	185.390 .395 .395 .395	185.394
4	233°10'04" 148°17'31.0"		

19

2503.054

SHEET 1 OF 2

Chester A. Parsons, PE

Stanley M. Shartle, PE LS

PARSONS & SHARTLE ENGINEERS, INC.

Job Hend. Co. Sec. 20-15-1E Date _____ Hg. 29.15 Temp. 40 °F. ppm -4

	POINT	DIRECTION	OBSERVED HORIZ. DISTANCE	MEAN DISTANCE	
1	2	0°00'00"	327.590 .595 .595 .590		
	5	300°02'56"	25.765 .765 .760 .760 +R		
	6	215°03'18"	40.620 .620 .615 .615 +R		
2	1	0°00'00"	327.590 .595 .590 .595		
	3	108°57'05"	14.66 Chain		
	4	18°18'06"	43.080 .080 .080 .075		Above Notes Previously Given to you
2/14/94 14° 29.00 ppm 0	2	0°00'00"	4716.930 .930 .940 .925	4716.931	4716.888
7	38	100°31'12"	1206.765 .765 .770 .765	1206.7666	1206.760
	4	42°04'44" 100°31'11.0"			
2/22/94 30° 29.05 ppm: -9	7	0°00'00"	1206.750 .750 .755 .755	1206.753	1206.760
38	39	353°43'27"	475.740 .740 .740 .740	475.740	
	2	347°26'57" 353°43'28.5"			
	40	350°36'49"	473.730 .730 .730 .730	473.730	
	2	341°13'43" 350°36'51.5"			
	41	280°10'48"	1044.800 .795 .795 .800	1044.798	
	2	200°21'49" 280°10'51.5"			
	42	229°54'35"	951.855 .855 .850 .850	951.853	
	4	199°38'23" 229°54'35.8"			
	43	224°07'19"	2496.575 .575 .575 .575	2496.575	
	4	176°29'16" 224°07'19.0"			
	44	112°13'39"	2724.185 .185 .185 .185	2724.185	
	2	224°27'22" 112°13'41.0"			

Chester A. Parsons, PE

SHEET 2 OF 2

Stanley M. Shartle, PE LS

PARSONS & SHARTLE ENGINEERS, INC.

Job Whicker Date 2/22/94 Hg. 30° Temp. 29.05°F. PPM -9

	POINT	DIRECTION	OBSERVED HORIZ. DISTANCE	MEAN DISTANCE	
			Continued from previous pg.		
38	45	138°52'19"	1680.900 .900 .895 .900	1680.899	1680.895
	4	195°29'02" 138°52'15.5"			
	38	0°00'00"	1680.890 .895 .890 .890	1680.891	1680.895
45	46	299°27'17"	1099.700 .700 .700 .700	1099.700	
	2	238°54'34" 299°27'17.0"			
	47	299°23'26"	1101.005 .995 .000 .995	1100.999	
	2	238°46'43" 299°23'21.5"			
	48	300°20'56"	823.000 .000 .000 .000	823.000	
	2	240°41'48 300°20'54.0"			
	38	0°00'00"			
	49	128°59'23"	998.650 .650 .650 .650	998.650	
42	2	257°58'47 128°59'24.0"			
	50	128°58'30"			
	2	257°56'58" 128°58'29.0"	999.195 .195 .200 .195	999.196	
	43	170°39'56"	1552.570 .575 .570 .575	1552.573	
	4	322°39'51 170°39'57.8"			
	38	0°00'00"	1206.735 .740 .735 .740	1206.738	1206.760
7	51	74°48'38"	180.025 .030 .025 .025	180.026	
	2	149°37'30 74°48'44.0			

#C.DAT - Hendricks County Corner Perpetuation Project in Sections 7 and 18-
#15-1W and in Section 13-15-2W. Bearings and coordinates based on the
#Mackey Estate survey.

C	2	4679.106	2335.918	!	!
C	1	5539.468	2336.963	!	!
M	2-1-5	270-18-28.0	1643.126		
M	2-1-11	269-40-48.0	1625.490		
M	2-1-7	269-46-37.0	4716.844		
M	11-2-5	225-44-31.0	25.118		
D	7-5		3073.841		

STAR*NET Adjustment Program
Copyright 1991 STARPLUS SOFTWARE, INC.
Licensed for Use by Shartle Engineering
Serial Number 10270
STAR*NET V4.065
Run Date : Tue Nov 23 19:59:41 1993

Default Standard Error for Distances : 0.01600
Default Standard Error for Angles : 2.800
Default Standard Error for Directions : 2.800
Default Standard Error for Az/Bearings : 2.800
Centering Error for Instrument : 0.0030
Centering Error for Target : 0.0050
EDM Parts Per Million : 3.0000

Number of Observations = 9
Number of Unknowns = 6
Degrees of Freedom = 3

Data Type	Count	Weighted Residuals	Error Factor
Distances	5	0.22	0.36
Angles	4	0.10	0.27
Directions	0	0.00	0.00
Az/Bearings	0	0.00	0.00
Stations	5	0.00	0.00
Total	14	0.32	0.33

Adjustment passes the Chi Square test at 5% level

Adjusted Angle Observations

At	From	To	Adj Angle	Residual	StdErr	StdRes
2	1	5	270-18-27.29	-0-00-00.71	3.21	0.2
2	1	11	269-40-48.72	0-00-00.72	3.22	0.2
2	1	7	269-46-36.99	-0-00-00.01	3.14	0.0
11	2	5	225-44-31.94	0-00-00.94	48.08	0.0

Adjusted Distance Observations [US Feet]

At	To	Adj Dist	Residual	StdErr	StdRes
2	5	1643.1211	-0.0049	0.018	0.3
2	11	1625.4912	0.0012	0.018	0.1
2	7	4716.8497	0.0057	0.022	0.3
11	5	25.1206	0.0026	0.017	0.2
7	5	3073.8367	-0.0043	0.019	0.2

Adjusted Bearings and Horizontal Distances

From	To	Bearing	Distance
2	5	N89-37-22.18W	1643.1211
2	11	S89-44-59.25W	1625.4912
2	7	S89-50-47.52W	4716.8497
11	5	N44-30-28.80W	25.1206
7	5	N89-33-46.37E	3073.8367
2	1	N00-04-10.53E	860.3626

Elapsed time = 00:00:00

ADJUSTED COORDINATES:

2	4679.10600	2335.91800
1	5539.46800	2336.96300
5	4689.92243	692.83249
11	4672.00759	710.44227
7	4666.47188	-2380.91473

add 10,000 to the above:

1	15,539.46800	12,336.96300
2	14,679.10600	12,335.91800
5	14,689.92243	10,692.83249
7	14,666.47188	7,619.08527
11	14,672.00759	10,710.44227

DISK 6

(2)

**** COORDINATE FILE SYSTEM ****

FILE CREATED:

COORDINATE FILE:1352WA LENGTH= 176 POINTS; TIME ON FILE: 0 00 00.00
CORNER PERPETUATION ***** JOB #1993

COORDINATE FILE:1352WA LENGTH = 176 POINTS; TIME ON FILE: 0 00 00.00
CORNER PERPETUATION ***** JOB #1993

********** COGO **********

FROM	TYPE	BEARING	DISTANCE	TO	NORTHING	EASTING
ENTER & ASSIGN						
				1	15,539.46800	12,336.96300
				2	14,679.10600	12,335.91800
				5	14,689.92243	10,692.83249
				7	14,666.47188	7,619.08527
				11	14,672.00759	10,710.44227
				13	19,997.74000	12,267.36100
START				13	19,997.74000	12,267.36100
13	TRAV SW	89 57 12.00	1549.94400*	14	19,996.47759	10,717.41751
14	TRAV SW	0 12 12.00*	14.51900*	15	19,981.95868	10,717.36599
START				11	14,672.00759	10,710.44227
11	TRAV SW	37 22 53.25	27.48400	12	14,650.16850	10,693.75622
12	TRAV NE	0 15 13.36	11.88000	3	14,662.04838	10,693.80882
3	S.S. NE	89 24 17.48	1642.19777	2	14,679.10600	12,335.91800
3	S.S. NE	59 05 20.77	19.38704	11	14,672.00759	10,710.44227
3	INV NE	0 15 13.36	5319.96246	15	19,981.95868	10,717.36599
START				3	14,662.04838	10,693.80882
3	TRAV NE	89 24 17.48	660.00000	4	14,668.90385	11,353.77322
4	INV NE	89 24 17.48	982.19777	2	14,679.10600	12,335.91800
START				11	14,672.00759	10,710.44227
11	TRAV NA	0 00 00.00	0.00000	0	14,672.00759	10,710.44227
START				11	14,672.00759	10,710.44227
11	S.S. NA	315 29 31.21	25.12063	5	14,689.92243	10,692.83249
11	INV NA	239 05 20.77	19.38704	3	14,662.04838	10,693.80882
3	INV NA	357 59 38.19	27.89114	5	14,689.92243	10,692.83249
5	S.S. NE	0 00 00.00	0.00000	0	14,689.92243	10,692.83249
START				7	14,666.47188	7,619.08527
7	TRAV SE	89 41 00.63	412.51000	6	14,664.19325	8,031.58898
START				7	14,666.47188	7,619.08527
7	TRAV NW	89 41 00.63	2238.53600	8	14,678.83713	5,380.58342
START				6	14,664.19325	8,031.58898
6	TRAV SE	89 48 00.63**	1745.00000	9	14,658.10736	9,776.57836
OFFSETS FROM A LINE						
				8	14,678.83713	5,380.58342

BASE BRG SE 89 41 00.63

PT	BASE DIST	OFFSET
7	2238.53600	0.00000
6	2651.04600	0.00000
9	4396.04238	-3.55320
12	5313.25010	-0.68077
3	5313.23708	-12.56076

*Derived from the Akins survey 1977.
** " " " Downard Rd. notes, F.B. 54.

```
   2   6955.22698    -38.68882
OFFSETS FROM A LINE
                                                  6     14,664.19325      8,031.58898
BASE BRG  SE  89 41 53.37
  PT    BASE DIST       OFFSET
   9   1744.99723     -3.10697
  12   2662.20418      0.00000
   3   2662.19420    -11.88000
   2   4304.19073    -37.58817
OFFSETS FROM A LINE
                                                  2     14,679.10600     12,335.91800
BASE BRG  NW   0 44 18.60
  PT    BASE DIST       OFFSET
   1    860.27706     12.13403


TIME FOR THIS RUN:    0 31 01.82; TOTAL TIME ON FILE:   0 31 01.82
COORDINATES STORED
```

#C.DAT - Enlarged net - Hendricks County Corner Perpetuation Project in
#Sections 7 and 18-15-1W and in Section 13-15-2W. Bearings and coordinates
#based on the Mackey Estate survey.

C	2	14679.106	12335.918	!	!
C	1	15539.468	12336.963	!	!
C	21	14683	11474		
M	2-1-5	270-18-28.0	1643.126		
M	2-1-11	269-40-48.0	1625.490		
M	2-1-7	269-46-37.0	4716.844		
M	11-2-5	225-44-31.0	25.118		
M	21-7-2	180-41-24.3	862.219		
D	7-5		3073.841		
D	21-7		3854.718		
SS	21-7-17	-81-33-58.5	5410.6945		

STAR*NET Adjustment Program
Version 5.040
Copyright 1993 STARPLUS SOFTWARE, INC.
Licensed for Use by Shartle Engineering
Serial Number 10270
Run Date : Tue Dec 21 1993 21:19:25

Distances (Constant) : 0.0160000 US Feet
Distances (PPM) : 3.0000000
Angles : 2.0000000 Seconds
Directions : 2.0000000 Seconds
Azimuth / Bearings : 2.0000000 Seconds
Centering Error Instrument : 0.0030000 US Feet
Centering Error Target : 0.0050000 US Feet

Number of Stations = 6
Number of Observations = 12
Number of Unknowns = 8
Number of Redundant Obs = 4

Observation	Count	Sum Squares of StdRes	Error Factor
Angles	5	0.13	0.28
Distances	7	0.94	0.64
Total	12	1.07	0.52

Adjustment Passes the Chi Square Test at 5% Level

Adjusted Angle Observations

At	From	To	Adj Angle	Residual	StdErr	StdRes
2	1	5	270-18-27.35	-0-00-00.65	2.55	0.3
2	1	11	269-40-48.65	0-00-00.65	2.55	0.3
2	1	7	269-46-37.00	0-00-00.00	2.45	0.0
11	2	5	225-44-31.96	0-00-00.96	48.04	0.0
21	7	2	180-41-24.31	0-00-00.01	2.50	0.0

Adjusted Distance Observations (US Feet)

From	To	Adj Dist	Residual	StdErr	StdRes
2	5	1643.1245	-0.0015	0.0217	0.1
2	11	1625.4935	0.0035	0.0217	0.2
2	7	4716.8603	0.0163	0.0307	0.5
11	5	25.1222	0.0042	0.0171	0.2
21	2	862.2107	-0.0083	0.0195	0.4
7	5	3073.8440	0.0030	0.0259	0.1
21	7	3854.7007	-0.0173	0.0282	0.6

Adjusted Bearings and Horizontal Distances (US Feet)

From	To	Bearing	Distance
2	5	N89-37-22.12W	1643.1245
2	11	S89-44-59.18W	1625.4935
2	7	S89-50-47.53W	4716.8603
11	5	N44-30-28.86W	25.1222
21	2	S89-35-22.27E	862.2107
7	5	N89-33-46.37E	3073.8440
21	7	S89-43-13.43W	3854.7007
2	1	N00-04-10.53E	860.3626

Elapsed Time = 00:00:01

Adjusted Coordinates

1	15539.46800	12336.96300
2	14679.10600	12335.91800
5	14689.92292	10692.82911
7	14666.47221	7619.07458
11	14672.00699	10710.43998
17	9329.29036	10706.29388
21	14685.28305	11473.72939

COORDINATE FILE:1352WA LENGTH = 176 POINTS; TIME ON FILE: 0 31 42.99
CORNER PERPETUATION ***** JOB #1993

********** COGO **********

FROM	TYPE	BEARING	DISTANCE	TO	NORTHING	EASTING
ENTER & ASSIGN						
				5	14,689.92292	10,692.82911
				7	14,666.47221	7,619.07458
				11	14,672.00699	10,710.43998
				17	9,329.29036	10,706.29388
				21	14,685.28305	11,473.72939
				26	13,718.64500	15,260.30200
				27	14,555.47800	17,675.96800
				28	13,351.43800	14,201.08100
				29	13,629.04200	15,002.25000
				30	13,356.05800	14,201.81700
				31	13,411.63000	14,210.67400
				32	13,689.48700	15,002.10500
START				11	14,672.00699	10,710.43998
11	TRAV SW	37 22 53.18	27.48400	12	14,650.16789	10,693.75394
12	TRAV NE	0 15 13.45	11.88000	3	14,662.04778	10,693.80655
3	INV NE	89 24 17.40	1642.20005	2	14,679.10600	12,335.91800
START				3	14,662.04778	10,693.80655
3	INV NE	0 15 13.45	5319.96307	15	19,981.95868	10,717.36599
START				7	14,666.47221	7,619.07458
7	TRAV SE	89 41 00.63	412.51000	6	14,664.19360	8,031.57829
START				7	14,666.47221	7,619.07458
7	TRAV NW	89 41 00.63	2238.53600	8	14,678.83739	5,380.57273
START				17	9,329.29036	10,706.29388
17	S.S. NW	69 38 39.07	41.44100	16	9,343.70558	10,667.44085
17	S.S. NW	89 19 14.07	2690.81800	18	9,361.19787	8,015.66507
17	TRAV NE	1 41 08.93	2503.04500	19	11,831.25198	10,779.93035
19	S.S. NW	22 38 57.57	257.85600	22	12,069.22188	10,680.63259
19	S.S. NW	19 43 26.07	312.26500	23	12,125.19633	10,674.54463
19	S.S. NW	25 08 49.57	228.17900	24	12,037.80412	10,682.96711
19	TRAV NW	30 01 20.07	185.39400	20	11,991.77190	10,687.17103
START				18	9,361.19787	8,015.66507
18	INV SE	89 37 19.41	2651.83348	16	9,343.70558	10,667.44085
16	INV NE	0 17 02.79	5306.52756	12	14,650.16789	10,693.75394
START				OFFSETS FROM A LINE		
				16	9,343.70558	10,667.44085

BASE BRG NE 0 17 02.79

PT	BASE DIST	OFFSET
20	2648.13160	6.59916
24	2694.14241	2.16704
22	2725.54821	-0.32324
23	2781.49178	-6.68868

LINE TANGENT TO CIRCLES			
	27	14,555.47800	17,675.96800
RADIUS = 0.000			
	23	12,125.19633	10,674.54463
RADIUS = -4.275			
TANGENT PTS (2nd,1st)			
	33	12,121.15852	10,675.94881
START	33	12,121.15852	10,675.94881

```
OFFSETS FROM A LINE
                                                33      12,121.15852      10,675.94881
BASE BRG  NE  70 49 27.92
  PT     BASE DIST        OFFSET
  23      0.00000      -4.27500
LINE TANGENT TO CIRCLES
                                                27      14,555.47800      17,675.96800
RADIUS =      0.000
                                                23      12,125.19633      10,674.54463
RADIUS =      4.275
TANGENT PTS (2nd,1st)
                                                33      12,129.23575      10,673.14510
OFFSETS FROM A LINE
                                                33      12,129.23575      10,673.14510
BASE BRG  NE  70 53 25.88 (New ℄)
  PT     BASE DIST        OFFSET
  23      -0.00000       4.27500
  28    3733.64567       0.10271
  29    4581.54646       0.07821
  26    4854.71216      -0.10762
  27    7411.21987       0.00000
LINE TANGENT TO CIRCLES
                                                30      13,356.05800      14,201.81700
RADIUS =      0.000
                                                22      12,069.22188      10,680.63259
RADIUS =     50.000
TANGENT PTS (2nd,1st)
                                                34      12,116.40877      10,664.09787
OFFSETS FROM A LINE
                                                34      12,116.40877      10,664.09787
BASE BRG  NE  70 41 20.66 (Old ℄)
  PT     BASE DIST        OFFSET
  22      0.00000      50.00000
  24     -8.18651      80.42214
  30    3748.62466       0.00000
  31    3775.36070     -49.51644
  32    4614.14988     -50.01881
START                                           24      12,037.80412      10,682.96711
  24 TRAV SE    4 14 58.53        0.35400       25      12,037.45109      10,682.99334
OFFSETS FROM A LINE
                                                34      12,116.40877      10,664.09787
BASE BRG  NE  70 41 20.66 (Old ℄)
  PT     BASE DIST        OFFSET
  25     -8.27849      80.76398
START                                           16       9,343.70558      10,667.44085
  16  B-B NE    0 17 02.79    2788.37855         0      12,132.04985      10,681.26738
   0  B-B NE   70 53 25.88    7402.62391        27      14,555.47800      17,675.96800
START                                           16       9,343.70558      10,667.44085
  16  B-B NE    0 17 02.79    2778.73696         0      12,122.40837      10,681.21957
   0  B-B NE   70 41 20.66    3730.48223        30      13,356.05800      14,201.81700
START                                           16       9,343.70558      10,667.44085
  16  B-B NE    0 17 02.79    2788.37855        33      12,132.04985      10,681.26738
  33  B-B NE   70 53 25.88    7402.62391        27      14,555.47800      17,675.96800
START                                           33      12,132.04985      10,681.26738
  33 TRAV SW    0 17 02.79      10.10000*       34      12,121.94997      10,681.21729
OFFSETS FROM A LINE
                                                34      12,121.94997      10,681.21729
BASE BRG  NE  70 40 56.78 (old ℄)
  PT     BASE DIST        OFFSET
  22     -17.99443      49.56606
```

*R.R. survey map

```
  25     -26.27649      80.32908
  30    3730.63599       0.00000
  31    3757.37776     -49.51335
  32    4596.16699     -49.91862
  28    3728.41312       4.11642
  29    4576.30840       7.17127
  26    4849.47297       7.97750
  27    7405.96343      17.36968
  33       3.38834      -9.51468
START                                        34     12,121.94997     10,681.21729
OFFSET INTERSECTION
NE  70 40 56.78     -49.50000
NE   0 17 02.79       0.00000
                                             35     12,174.49444     10,681.47785
START                                        35     12,174.49444     10,681.47785
  35 TRAV SW    0 17 02.79     185.46000     36     11,989.03672     10,680.55822
  36  INV NE   67 31 44.81       7.15615     20     11,991.77190     10,687.17103
START                                        36     11,989.03672     10,680.55822
  36 TRAV NE    0 17 02.79      22.44000     37     12,011.47644     10,680.66949
  37 S.S. SW    0 17 02.79    2667.80366     16      9,343.70558     10,667.44085
  37 S.S. NE    0 17 02.79    2638.72389     12     14,650.16789     10,693.75394
  37  INV NW    0 02 11.81      57.74545     22     12,069.22188     10,680.63259
START                                        34     12,121.94997     10,681.21729
  34  INV SW    0 17 02.79     132.91489     36     11,989.03672     10,680.55822
RAILROAD MAP DISTANCE = 132.4'

START                                        19     11,831.25198     10,779.93035
  19 S.S. NA    0 00 00.00       0.00000      0     11,831.25198     10,779.93035
  19 S.S. NA  181 41 08.93    2503.04500     17      9,329.29036     10,706.29388
  19 S.S. NA  327 47 50.85     186.46942     36     11,989.03672     10,680.55822
  19  INV NA  331 09 20.45     205.75124     37     12,011.47644     10,680.66949

TIME FOR THIS RUN:    1 23 46.51; TOTAL TIME ON FILE:   1 55 29.49
COORDINATES STORED
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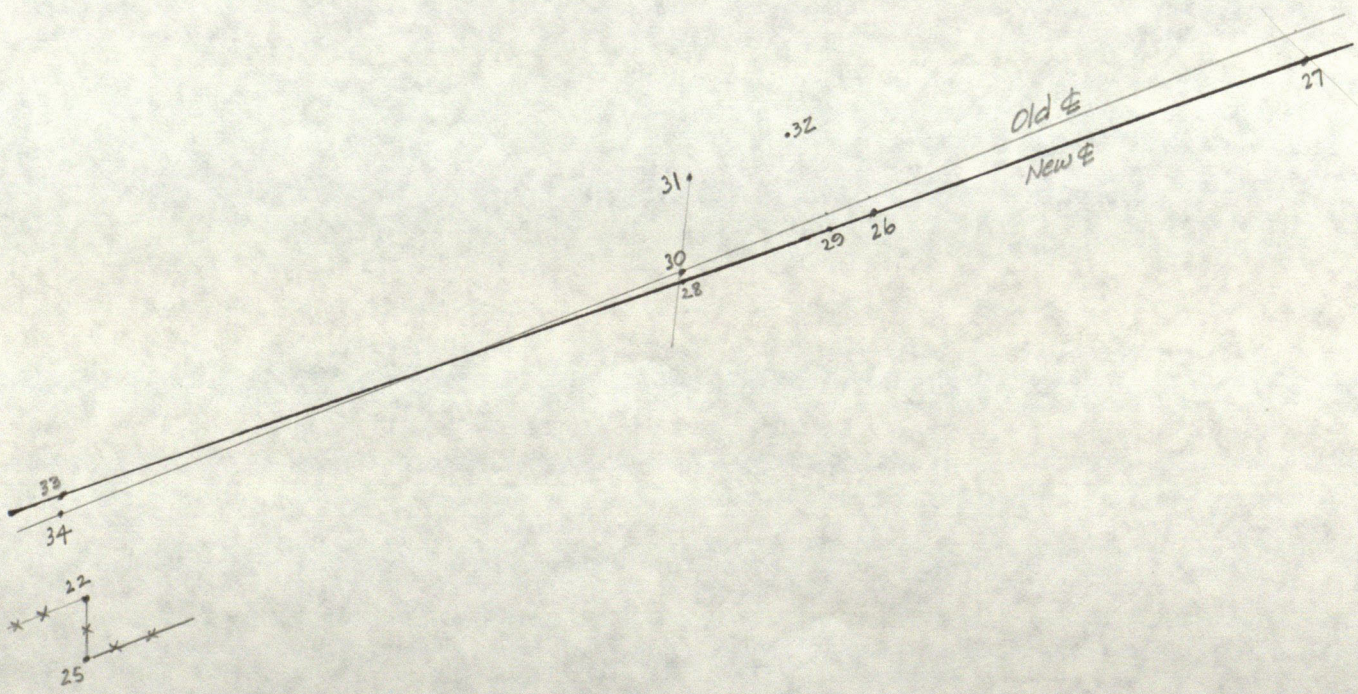

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---------------------------------------------------------------------------
COORDINATE FILE:1352WA LENGTH =  176 POINTS; TIME ON FILE:   1 55 29.49
CORNER PERPETUATION                ***** JOB #1993
---------------------------------------------------------------------------

************* COGO *************
-------------------------------------------------------------------------------
FROM TYPE          BEARING      DISTANCE   TO          NORTHING          EASTING
-------------------------------------------------------------------------------
START                                       6      14,664.19360       8,031.57829
   6  INV SW    0 10 18.96   5303.01960   18       9,361.19787       8,015.66507
  18  INV SE   89 37 19.41   2651.83348   16       9,343.70558      10,667.44085
  16  INV NE    0 17 02.79   2667.80366   37      12,011.47644      10,680.66949
  37  INV NE    0 17 02.79   2638.72389   12      14,650.16789      10,693.75394
  12  INV NW   89 41 53.30   2662.21260    6      14,664.19360       8,031.57829
START                                      16       9,343.70558      10,667.44085
  16  INV NE    0 17 02.79   2645.36366   36      11,989.03672      10,680.55822
  36  INV NE    0 17 02.31   2673.04389    3      14,662.04778      10,693.80655
   3  INV NE   89 24 17.40   1642.20005    2      14,679.10600      12,335.91800
OFFSETS FROM A LINE
                                           33      12,132.04985      10,681.26738
BASE BRG  NE  70 53 25.88 (New ℄)
  PT     BASE DIST        OFFSET
  37     -40.03756     113.73345
  36     -47.48889     134.90020
OFFSETS FROM A LINE
                                           34      12,121.94997      10,681.21729
BASE BRG  NE  70 40 56.78 (Old ℄)
  PT     BASE DIST        OFFSET
  37     -37.06201     104.07261
  36     -44.59016     125.21216
PT-PT ANGLES
ANG 16 - 33 - 27 :  C.W. 250 36 23.09  C.C.W. 109 23 36.91   7402.62391 (New ℄)
PT-PT ANGLES
ANG 16 - 34 - 30 :  C.W. 250 23 53.98  C.C.W. 109 36 06.02   3730.63599 (Old ℄)
OFFSETS FROM A LINE
                                           16       9,343.70558      10,667.44085
BASE BRG  NE   0 16 07.99
  PT     BASE DIST        OFFSET
  36    2645.36357       0.70287
  37    2667.80357       0.70883
  12    5306.52737       1.40994
   3    5318.40737       1.40679
  15   10638.37026       0.00000
  14   10652.88925      -0.01661

TIME FOR THIS RUN:    0 14 33.10; TOTAL TIME ON FILE:   2 10 02.59
COORDINATES STORED
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COORDINATE FILE:1352WA LENGTH = 176 POINTS; TIME ON FILE: 2 10 02.59
CORNER PERPETUATION ***** JOB #1993

********** COGO **********

FROM	TYPE	BEARING	DISTANCE	TO	NORTHING	EASTING
LIST						
				1	15,539.46800	12,336.96300
				2	14,679.10600	12,335.91800
				3	14,662.04778	10,693.80655
				4	14,668.90385	11,353.77322
				5	14,689.92292	10,692.82911
				6	14,664.19360	8,031.57829
				7	14,666.47221	7,619.07458
				8	14,678.83739	5,380.57273
				9	14,658.10736	9,776.57836
				11	14,672.00699	10,710.43998
				12	14,650.16789	10,693.75394
				13	19,997.74000	12,267.36100
				14	19,996.47759	10,717.41751
				15	19,981.95868	10,717.36599
				16	9,343.70558	10,667.44085
				17	9,329.29036	10,706.29388
				18	9,361.19787	8,015.66507
				19	11,831.25198	10,779.93035
				20	11,991.77190	10,687.17103
				21	14,685.28305	11,473.72939
				22	12,069.22188	10,680.63259
				23	12,125.19633	10,674.54463
				24	12,037.80412	10,682.96711
				25	12,037.45109	10,682.99334
				26	13,718.64500	15,260.30200
				27	14,555.47800	17,675.96800
				28	13,351.43800	14,201.08100
				29	13,629.04200	15,002.25000
				30	13,356.05800	14,201.81700
				31	13,411.63000	14,210.67400
				32	13,689.48700	15,002.10500
				33	12,132.04985	10,681.26738
				34	12,121.94997	10,681.21729
				35	12,174.49444	10,681.47785
				36	11,989.03672	10,680.55822
				37	12,011.47644	10,680.66949

HAVE A HAPPY DAY LARRY!

TIME FOR THIS RUN: 0 01 33.54; TOTAL TIME ON FILE: 2 11 36.13
COORDINATES STORED

#C.DAT - Enlarged net - Hendricks County Corner Perpetuation Project in
#Sections 7 and 18-15-1W and in Section 13-15-2W. Bearings and coordinates
#based on the Mackey Estate survey.

```
C  2          14679.106      12335.918      !   !
C  1          15539.468      12336.963      !   !
C  21         14683          11474

M  2-1-5       270-18-28.0     1643.126
M  2-1-11      269-40-48.0     1625.490
M  2-1-7       269-46-37.0     4716.888
M  11-2-5      225-44-31.0       25.118
M  21-7-2      180-41-24.3      862.219
M  7-2-38      100-31-11.0     1206.760
M  38-7-42     229-54-35.8      951.853
M  38-7-43     224-07-19.0     2496.575
M  42-38-43    170-39-57.8     1552.573
D  7-5                       3073.841
D  21-7                      3854.718

SS 7-38-51     74-48-44.0       180.026
SS 21-7-17     -81-33-58.5     5410.6945
SS 38-7-39     353-43-28.5      475.740
SS 38-7-40     350-36-51.5      473.730
SS 38-7-41     280-10-51.5     1044.798
SS 38-7-44     112-13-41.0     2724.185
SS 38-7-45     138-52-15.5     1680.895
SS 42-38-49    128-59-24.0      998.650
SS 42-38-50    128-58-29.0      999.196
```

STAR*NET Adjustment Program
Version 5.040

Licensed for Use by Shartle Engineering
Serial Number 10270
Run Date : Thu Feb 24 1994 10:49:44
Default Instrument Standard Error Settings

Distances (Constant) : 0.0160000 US Feet
Distances (PPM) : 3.0000000
Angles : 2.0000000 Seconds
Directions : 2.0000000 Seconds
Azimuth / Bearings : 2.0000000 Seconds
Centering Error Instrument : 0.0030000 US Feet
Centering Error Target : 0.0050000 US Feet
Number of Stations = 9
Number of Observations = 20
Number of Unknowns = 14
Number of Redundant Obs = 6

Observation	Count	Sum Squares of StdRes	Error Factor
Angles	9	0.60	0.47
Distances	11	1.24	0.61
Total	20	1.84	0.55

Adjustment Passes the Chi Square Test at 5% Level

Adjusted Angle Observations

At	From	To	Adj Angle	Residual	StdErr	StdRes
2	1	5	270-18-27.39	-0-00-00.61	2.55	0.2
2	1	11	269-40-48.60	0-00-00.60	2.55	0.2
2	1	7	269-46-37.01	0-00-00.01	2.45	0.0
11	2	5	225-44-30.31	-0-00-00.69	48.04	0.0
21	7	2	180-41-24.30	0-00-00.00	2.50	0.0
7	2	38	100-31-11.00	0-00-00.00	2.25	0.0
38	7	42	229-54-37.08	0-00-01.28	2.65	0.5
38	7	43	224-07-18.02	-0-00-00.98	2.33	0.4
42	38	43	170-39-58.50	0-00-00.70	2.59	0.3

Adjusted Distance Observations (US Feet)

From	To	Adj Dist	Residual	StdErr	StdRes
2	5	1643.1290	0.0030	0.0217	0.1
2	11	1625.4969	0.0069	0.0217	0.3
2	7	4716.8760	-0.0120	0.0307	0.4
11	5	25.1235	0.0055	0.0171	0.3
21	2	862.2158	-0.0032	0.0195	0.2
7	38	1206.7600	-0.0000	0.0205	0.0
38	42	951.8464	-0.0066	0.0197	0.3
38	43	2496.5858	0.0108	0.0242	0.4
42	43	1552.5641	-0.0089	0.0215	0.4
7	5	3073.8552	0.0142	0.0259	0.5
21	7	3854.7113	-0.0067	0.0282	0.2

Adjusted Bearings and Horizontal Distances (US Feet)

From	To	Bearing	Distance
2	5	N89-37-22.08W	1643.1290
2	11	S89-44-59.13W	1625.4969
2	7	S89-50-47.54W	4716.8760
11	5	N44-30-30.56W	25.1235
21	2	S89-35-22.26E	862.2158
7	38	S10-21-58.54W	1206.7600
38	42	S60-16-35.62W	951.8464
38	43	S54-29-16.56W	2496.5858
42	43	S50-56-34.12W	1552.5641
7	5	N89-33-46.36E	3073.8552
21	7	S89-43-13.44W	3854.7113
2	1	N00-04-10.53E	860.3626

Elapsed Time = 00:00:02

Adjusted Coordinates

1	15539.46800	12336.96300
2	14679.10600	12335.91800
5	14689.92327	10692.82465
7	14666.47243	7619.05892
11	14672.00657	10710.43657
17	9329.29047	10706.28854
21	14685.28312	11473.72433
38	13479.40966	7401.91458
39	13953.93756	7435.85296
40	13953.07028	7410.02167
41	13846.11229	6423.58333
42	13007.47091	6575.30377
43	12029.20687	5369.71069
44	12011.92597	9697.05631
45	12035.02923	8261.66640
49	12021.85343	6414.49329
50	12021.27169	6414.66833
51	14651.34088	7439.66997

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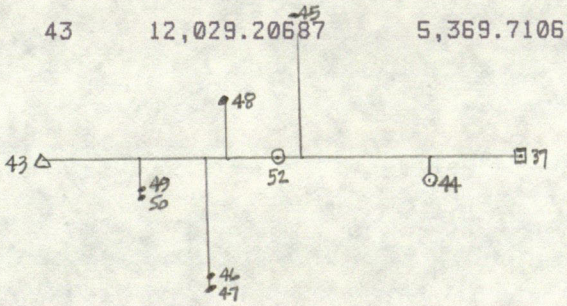
-----------------------------------------------------------------------
COORDINATE FILE:1352WA LENGTH =  176 POINTS; TIME ON FILE:   2 11 36.13
CORNER PERPETUATION                ***** JOB #1993
-----------------------------------------------------------------------
************* COGO *************
-----------------------------------------------------------------------------------
FROM TYPE          BEARING      DISTANCE   TO          NORTHING          EASTING
-----------------------------------------------------------------------------------
ENTER & ASSIGN
                                             5      14,689.92327      10,692.82465
                                             7      14,666.47243       7,619.05892
                                            11      14,672.00657      10,710.43657
                                            17       9,329.29047      10,706.28854
                                            21      14,685.28312      11,473.72433
                                            38      13,479.40966       7,401.91458
                                            39      13,953.93756       7,435.85296
                                            40      13,953.07028       7,410.02167
                                            41      13,846.11229       6,423.58333
                                            42      13,007.47091       6,575.30377
                                            43      12,029.20687       5,369.71069
                                            44      12,011.92597       9,697.05631
                                            45      12,035.02923       8,261.66640
                                            49      12,021.85343       6,414.49329
                                            50      12,021.27169       6,414.66833
                                            51      14,651.34088       7,439.66997
OFFSETS FROM A LINE
                                            12      14,650.16789      10,693.75394
BASE BRG  NE   0 15 13.45
  PT     BASE DIST        OFFSET
   3      11.88000      -0.00000
START                                  OFFSETS FROM A LINE
                                            16       9,343.70558      10,667.44085
BASE BRG  NE   0 17 02.79
  PT     BASE DIST        OFFSET
  36    2645.36366       0.00000
  37    2667.80366       0.00000
  12    5306.52756       0.00000
START                                       21      14,685.28312      11,473.72433
  21 TRAV SW   8 09 14.94   5410.69450      17       9,329.29048      10,706.28846
ENTER & ASSIGN
                                            17       9,329.29047      10,706.28854 <- USE FROM
START                                       17       9,329.29047      10,706.28854   STAR# NET
  17 S.S. NW  69 38 39.06     41.44100      16       9,343.70569      10,667.43551
  17 S.S. NE   1 41 08.94   2503.04500      19      11,831.25209      10,779.92514
  17 TRAV NW  89 19 14.06   2690.81800      18       9,361.19812       8,015.65973
OFFSETS FROM A LINE
                                            16       9,343.70569      10,667.43551
BASE BRG  NW  89 19 14.06
  PT     BASE DIST        OFFSET
START                                       11      14,672.00657      10,710.43657
  11  INV NE   0 00 00.00      0.00000      11      14,672.00657      10,710.43657
  11 TRAV SW  37 22 53.13     27.48400      12      14,650.16747      10,693.75053
OFFSETS FROM A LINE
                                            16       9,343.70569      10,667.43551
BASE BRG  NE   0 17 02.87
  PT     BASE DIST        OFFSET
  36    2645.36358       0.00437
  37    2667.80358       0.00437
  34    2778.27847       0.00433
  33    2788.37847       0.00432
```

35	2830.82358			0.00431			
12	5306.52703			0.00000			
START					16	9,343.70569	10,667.43551
16	S.S.	NE	0 17 02.87	2645.36358	36	11,989.03674	10,680.55384
16	S.S.	NE	0 17 02.87	2667.80358	37	12,011.47646	10,680.66512
16	S.S.	NE	0 17 02.87	2778.27847	34	12,121.95000	10,681.21297
16	S.S.	NE	0 17 02.87	2788.37847	33	12,132.04987	10,681.26305
16	TRAV	NE	0 17 02.87	2830.82358	35	12,174.49446	10,681.47354
START					34	12,121.95000	10,681.21297
34	S.S.	NE	70 40 56.86	3730.64007	30	13,356.05800	14,201.81700
START					33	12,132.04987	10,681.26305
33	S.S.	NE	70 53 21.36	4846.12028	26	13,718.64500	15,260.30200
33	S.S.	NE	70 53 25.92	7402.62799	27	14,555.47800	17,675.96800
33	S.S.	NE	70 53 31.65	3725.05380	28	13,351.43800	14,201.08100
33	S.S.	NE	70 53 29.47	4572.95458	29	13,629.04200	15,002.25000
START					35	12,174.49446	10,681.47354
35	S.S.	NE	70 40 56.12	3739.75403	31	13,411.63000	14,210.67400
35	S.S.	NE	70 40 37.99	4578.54329	32	13,689.48700	15,002.10500
START					7	14,666.47243	7,619.05892
7	S.S.	SE	89 41 00.64	412.51000	6	14,664.19382	8,031.56263
7	S.S.	NW	89 41 00.64	2238.53600	8	14,678.83757	5,380.55707
7	TRAV	SE	89 41 00.64	1745.66800	9	14,656.82977	9,364.70029
START					45	12,035.02923	8,261.66640
45	S.S.	SW	89 35 08.04	823.00000	48	12,029.07636	7,438.68793
45	S.S.	SW	88 41 31.04	1099.70000	46	12,009.92563	7,162.25297
45	TRAV	SW	88 37 35.54	1100.99900	47	12,008.63928	7,160.98372
OFFSETS FROM A LINE							
					43	12,029.20687	5,369.71069

BASE BRG SE 89 48 31.40

PT	BASE DIST	OFFSET
49	1044.80133	3.86545
50	1044.97831	4.44661
46	1792.59666	13.29683
47	1791.33171	14.58742
48	2068.96615	-6.77664
45	2891.92016	-15.47695
44	4327.37920	2.83422
37	5310.98403	0.00000



START					43	12,029.20687	5,369.71069
43	B-B	SE	89 48 31.40	2653.93822	52	12,020.34685	8,023.63412
52	B-B	SW	0 10 18.56	2659.16069	18	9,361.19812	8,015.65973
18	INV	NE	0 10 18.56	2659.16069	52	12,020.34685	8,023.63412
52	S.S.	NE	0 10 18.56	2643.85886	6	14,664.19382	8,031.56263
52	S.S.	SE	89 48 31.40	2657.04581	37	12,011.47646	10,680.66512
52	S.S.	SE	89 42 42.06	1673.44338	44	12,011.92597	9,697.05631
52	S.S.	NW	89 08 42.02	585.01133	48	12,029.07636	7,438.68793
52	S.S.	SW	89 18 24.67	861.44419	46	12,009.92563	7,162.25297
52	S.S.	SW	89 13 20.82	862.72985	47	12,008.63928	7,160.98372
52	S.S.	NW	89 56 46.88	1609.14154	49	12,021.85343	6,414.49329
52	S.S.	NW	89 58 01.44	1608.96606	50	12,021.27169	6,414.66833
52	INV	NW	89 48 31.40	2653.93822	43	12,029.20687	5,369.71069
OFFSETS FROM A LINE							
					39	13,953.93756	7,435.85296

BASE BRG NW 0 05 03.79

PT	BASE DIST	OFFSET
40	-0.82923	-25.83254
51	697.39694	4.84415
6	709.37812	596.75510
48	-1924.86329	0.00000

START					40	13,953.07028	7,410.02167

40	S.S. NE	2 25 52.67	698.89974
40	S.S. SW	83 48 42.06	992.22004
40	S.S. NE	88 04 37.30	25.84585

START

OFFSETS FROM A LINE

BASE BRG NE 0 14 04.35

PT	BASE DIST	OFFSET
49	-3.07655	1044.80395
5	2682.48433	5312.17769
41	1821.20424	1046.42629
8	2649.65290	0.00000

OFFSETS FROM A LINE

BASE BRG NE 0 10 18.56

PT	BASE DIST	OFFSET
48	6.97530	-584.96974
39	1931.81935	-593.57704
40	1930.87461	-619.40562
51	2629.23098	-591.85145
6	2643.85886	0.00000

LIST

51	14,651.34088	7,439.66997
41	13,846.11229	6,423.58333
39	13,953.93756	7,435.85296
43	12,029.20687	5,369.71069
43	12,029.20687	5,369.71069
52	12,020.34685	8,023.63412
1	15,539.46800	12,336.96300
2	14,679.10600	12,335.91800
3	14,662.04778	10,693.80655
4	14,668.90385	11,353.77322
5	14,689.92327	10,692.82465
6	14,664.19382	8,031.56263
7	14,666.47243	7,619.05892
8	14,678.83757	5,380.55707
9	14,656.82977	9,364.70029
11	14,672.00657	10,710.43657
12	14,650.16747	10,693.75053
13	19,997.74000	12,267.36100
14	19,996.47759	10,717.41751
15	19,981.95868	10,717.36599
16	9,343.70569	10,667.43551
17	9,329.29047	10,706.28854
18	9,361.19812	8,015.65973
19	11,831.25209	10,779.92514
20	11,991.77190	10,687.17103
21	14,685.28312	11,473.72433
22	12,069.22188	10,680.63259
23	12,125.19633	10,674.54463
24	12,037.80412	10,682.96711
25	12,037.45109	10,682.99334
26	13,718.64500	15,260.30200
27	14,555.47800	17,675.96800
28	13,351.43800	14,201.08100
29	13,629.04200	15,002.25000
30	13,356.05800	14,201.81700
31	13,411.63000	14,210.67400
32	13,689.48700	15,002.10500
33	12,132.04987	10,681.26305
34	12,121.95000	10,681.21297
35	12,174.49446	10,681.47354
36	11,989.03674	10,680.55384
37	12,011.47646	10,680.66512
38	13,479.40966	7,401.91458
39	13,953.93756	7,435.85296

40	13,953.07028	7,410.02167
41	13,846.11229	6,423.58333
42	13,007.47091	6,575.30377
43	12,029.20687	5,369.71069
44	12,011.92597	9,697.05631
45	12,035.02923	8,261.66640
46	12,009.92563	7,162.25297
47	12,008.63928	7,160.98372
48	12,029.07636	7,438.68793
49	12,021.85343	6,414.49329
50	12,021.27169	6,414.66833
51	14,651.34088	7,439.66997
52	12,020.34685	8,023.63412

TIME FOR THIS RUN: 1 03 07.33; TOTAL TIME ON FILE: 3 14 43.47
COORDINATES STORED

```
---------------------------------------------------------------------------
COORDINATE FILE:1352WA LENGTH =  176 POINTS; TIME ON FILE:   3 14 43.47
CORNER PERPETUATION                ***** JOB #1993
---------------------------------------------------------------------------
************* COGO *************
-----------------------------------------------------------------------------
FROM TYPE          BEARING      DISTANCE   TO          NORTHING          EASTING
-----------------------------------------------------------------------------
START                                       6       14,664.19382      8,031.56263
   6 S.S. NW  89 41 00.64     591.00000   58       14,667.45837      7,440.57164
   6 TRAV NW  89 41 00.64     616.00000   63       14,667.59646      7,415.57202
LINE TANGENT TO CIRCLES
                                           58       14,667.45837      7,440.57164
RADIUS =     0.000
                                           48       12,029.07636      7,438.68793
RADIUS =    12.500
TANGENT PTS (2nd,1st)
                                            0       12,029.14450      7,426.18812
START                                      58       14,667.45837      7,440.57164
  58  B-B SW   0 18 44.50   2645.15615   59       12,022.34153      7,426.15103
  59  B-B SE  89 48 31.40    597.48642   52       12,020.34685      8,023.63412
OFFSETS FROM A LINE
                                           59       12,022.34153      7,426.15103
BASE BRG  NE   0 18 44.50
  PT    BASE DIST        OFFSET
  39   1931.62022      -0.82871
  40   1930.61213     -26.65489
  51   2629.03399      -0.81374
MOVE 59 WEST 0.5 FEET:
START                                      59       12,022.34153      7,426.15103
  59 TRAV NW  89 48 31.40      0.50000   59       12,022.34320      7,425.65103
OFFSETS FROM A LINE
                                           59       12,022.34320      7,425.65103
BASE BRG  NE   0 19 23.49
  PT    BASE DIST        OFFSET
  39   1931.62118      -0.69383
  40   1930.60821     -26.51982
  51   2629.03494      -0.81074
START                                       6       14,664.19382      8,031.56263
   6 TRAV SE  89 41 53.26     660.00000   65       14,660.71651      8,691.55347
PTS 65 THRU 65 CLEARED
START                                       6       14,664.19382      8,031.56263
   6 TRAV SE  89 41 53.26     660.00000   64       14,660.71651      8,691.55347
START                                      52       12,020.34685      8,023.63412
  52 TRAV SE  89 48 31.40     660.00000   65       12,018.14348      8,683.63044

WHICKER TO GOOD:
LOT SUMMARY
                                            6       14,664.19382      8,031.56263
   6       NW  89 41 00.64     591.00000   58       14,667.45836      7,440.57164
  58       SW   0 19 23.49    2645.15725   59       12,022.34319      7,425.65103
  59       SE  89 48 31.40     597.98612   52       12,020.34686      8,023.63412
  52       SE  89 48 31.40     660.00000   65       12,018.14350      8,683.63044
  65       NE   0 10 18.43    2642.58490   64       14,660.71652      8,691.55351
  64       NW  89 41 53.26     660.00000    6       14,664.19382      8,031.56267
                                            6       14,664.19382      8,031.56263
           SW  87 37 42.96       0.00005 CLOSING LINE
     7,796.729 DIST TRAV
```

PRELIMINARY

PRELIMINARY

PERFECT CLOSURE

AREA 3316663.96 SF 76.1401 ACRES

GOOD TO WHICKER:
LOT SUMMARY

START		58	14,667.45837	7,440.57164
58 INV NW 89 41 00.64	25.00000	63	14,667.59646	7,415.57202
63 TRAV SW 0 19 23.49	714.40000	61	13,953.20783	7,411.54229
61 INV SW 84 49 53.17	1.52683	40	13,953.07028	7,410.02167
MOVE 59 WEST 4 FEET:				
40 TRAV NW 89 48 31.39	4.00000	59	13,953.08363	7,406.02169
START		59	13,953.08363	7,406.02169
59 TRAV SW 46 37 34.52	4.00000	59	13,950.33662	7,403.11413
OFFSETS FROM A LINE				
		59	13,950.33662	7,403.11413

BASE BRG NE 2 59 24.07

PT	BASE DIST	OFFSET
39	5.30377	32.50642
40	3.09025	6.75554
51	701.95677	-0.05972

START		LINE TANGENT TO CIRCLES		
		58	14,667.45837	7,440.57164
RADIUS = 0.000				
		48	12,029.07636	7,438.68793
RADIUS = 4.500				
TANGENT PTS (2nd,1st)				
		100	12,029.08724	7,434.18794
START		58	14,667.45837	7,440.57164
58 B-B SW 0 08 19.07	2645.15136	59	12,022.31475	7,434.17156
59 B-B SE 89 48 31.40	589.46585	52	12,020.34685	8,023.63412
PTS 100 THRU 100 CLEARED				
OFFSETS FROM A LINE				
		59	12,022.31475	7,434.17156

BASE BRG NE 0 08 19.07

PT	BASE DIST	OFFSET
39	1931.62122	-2.99227
40	1930.69145	-28.82138
51	2629.03174	-0.86267

LINE TANGENT TO CIRCLES				
		58	14,667.45837	7,440.57164
RADIUS = 0.000				
		48	12,029.07636	7,438.68793
RADIUS = 17.000				
TANGENT PTS (2nd,1st)				
		100	12,029.19803	7,421.68836
START		58	14,667.45837	7,440.57164
58 B-B SW 0 24 36.31	2645.16953	59	12,022.35659	7,421.63940
59 B-B SE 89 48 31.40	601.99808	52	12,020.34685	8,023.63412
OFFSETS FROM A LINE				
		59	12,022.35659	7,421.63940

BASE BRG NE 0 24 36.31

PT	BASE DIST	OFFSET
39	1931.63323	0.38831
40	1930.58109	-25.43611
51	2629.04600	-0.78629

WHICKER TO GOOD:
LOT SUMMARY

	6	14,664.19382	8,031.56263

```
  6       NW  89 41 00.64     591.00000   58      14,667.45836        7,440.57164
 58       SW   0 24 36.31    2645.16953   59      12,022.35658        7,421.63939
 59       SE  89 48 31.40     601.99808   52      12,020.34686        8,023.63412
 52       SE  89 48 31.40     660.00000   65      12,018.14350        8,683.63044
 65       NE   0 10 18.43    2642.58490   64      14,660.71652        8,691.55351
 64       NW  89 41 53.26     660.00000    6      14,664.19382        8,031.56267
                                          6      14,664.19382        8,031.56263
          SW  89 52 51.53       0.00005 CLOSING LINE
     7,800.753 DIST TRAV
PERFECT CLOSURE
-----------------------------------
AREA  3321969.69 SF   76.2619 ACRES
-----------------------------------
START                                    63      14,667.59646        7,415.57202
 63 TRAV SW   0 24 36.31     714.40000   61      13,953.21476        7,410.45886

GOOD TO WHICKER:
LOT SUMMARY
                                         58      14,667.45837        7,440.57164
 58       NW  89 41 00.64      25.00000   63      14,667.59646        7,415.57202
 63       SW  26 49 12.09   16435.60447   57          [illegible]14          .00029
                                         58      14,6[illegible]5837        7,440.57164
          NE  26 53 52.67   16446.77601 CLOSING LINE
    16,460.604 DIST TRAV
         1.001 PRECISION
-----------------------------------
AREA   183854.18 SF    4.2207 ACRES
-----------------------------------
START                                    53           0.00000            0.00000
START                                     8      14,678.83757        5,380.55707
  8 TRAV SE  89 41 00.64    1039.50000   53      14,673.09562        6,420.04121
START                                    43      12,029.20687        5,369.71069
 43 TRAV SE  89 48 31.40    1039.50000   54      12,025.73656        6,409.20490
START                                    53      14,673.09562        6,420.04121
 53 TRAV SW   0 14 04.29     823.40000   57      13,849.70252        6,416.67085
 57  INV NE  84 03 12.80     999.16434   61      13,953.21476        7,410.45886
START                                    54      12,025.73656        6,409.20490
 54 TRAV SE  89 48 31.40    1006.50000   56      12,022.37642        7,415.69929
 56  INV SE  89 48 31.40       5.94014   59      12,022.35659        7,421.63940
OFFSETS FROM A LINE
                                         56      12,022.37642        7,415.69929
BASE BRG  NE   0 32 19.50
 PT     BASE DIST        OFFSET
 48       6.91580      22.92463
 39    1931.66525       1.99064
 40    1930.55512     -23.83135
 51    2629.07363      -0.75008
 58    2645.19888       0.00000
GOOD TO WHICKER:
LOT SUMMARY
                                         58      14,667.45837        7,440.57164
 58       NW  89 41 00.64      25.00000   63      14,667.59646        7,415.57202
 63       SW   0 24 36.31     714.40000   61      13,953.21476        7,410.45886
 61       SW  84 03 12.80     999.16434   57      13,849.70251        6,416.67085
 57       SW   0 14 04.29    1823.98124   54      12,025.73655        6,409.20489
 54       SE  89 48 31.40    1012.44014   59      12,022.35660        7,421.63939
 59       NE   0 24 36.31    2645.16953   58      14,667.45838        7,440.57164
                                         58      14,667.45837        7,440.57164
          SE   8 40 11.31       0.00001 CLOSING LINE
     7,220.155 DIST TRAV
```

PRELIMINARY

PRELIMINARY

PERFECT CLOSURE

AREA 1925340.70 SF 44.1997 ACRES

START				59	12,022.35659	7,421.63940
59	TRAV NW	89 48 31.40	1.00000	59	12,022.35993	7,420.63940

WHICKER TO GOOD:
LOT SUMMARY

				6	14,664.19382	8,031.56263
6	NW	89 41 00.64	591.00000	58	14,667.45836	7,440.57164
58	SW	0 25 54.29	2645.17354	59	12,022.35992	7,420.63936
59	SE	89 48 31.40	602.99808	52	12,020.34685	8,023.63408
52	SE	89 48 31.40	660.00000	65	12,018.14350	8,683.63040
65	NE	0 10 18.43	2642.58490	64	14,660.71652	8,691.55348
64	NW	89 41 53.26	660.00000	6	14,664.19382	8,031.56264
				6	14,664.19382	8,031.56263
	NW	82 19 40.98	0.00001	CLOSING LINE		

7,801.757 DIST TRAV

PERFECT CLOSURE

AREA 3323292.22 SF 76.2923 ACRES

GOOD TO WHICKER:
LOT SUMMARY

				58	14,667.45837	7,440.57164
58	NW	89 41 00.64	25.00000	63	[illegible]	7,415.57202
63	SW	0 24 36.31	714.40000	61	[illegible]	7,410.45886
61	SW	84 03 12.80	999.16434	[illegible]	13,849.70251	6,416.67085
57	SW	0 14 04.29	1823.98[illegible]	54	12,025.73655	6,409.20489
54	SE	89 48 31.40	101[illegible]	59	12,022.35994	7,420.63940
59	NE	0 25 54.29	[illegible].17354	58	14,667.45838	7,440.57168
				58	14,667.45837	7,440.57164
	SW	64 31 47.[illegible]7	0.00004	CLOSING LINE		

7,219.159 DIST TRAV

PERFECT CLOSURE

AREA 1924018.17 SF 44.1694 ACRES

PRELIMINARY

OFFSETS FROM A LINE

			59	12,022.35993	7,420.63940

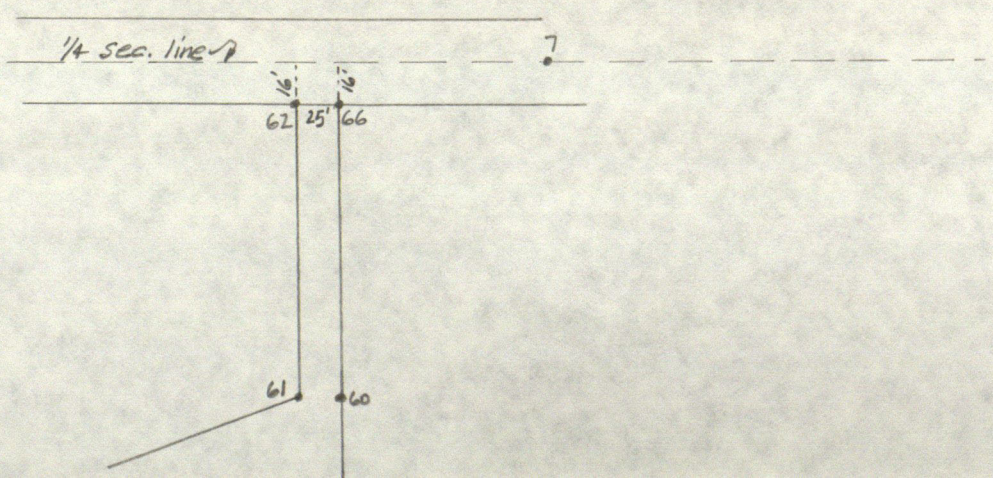
BASE BRG NE 0 25 54.29

PT	BASE DIST	OFFSET
48	6.85224	17.99740
39	1931.63743	0.65806
40	1930.57553	-25.16596
51	2629.04971	-0.78020
58	2645.17354	0.00000

FOR STAKING:

START		45	12,035.02923	8,261.66640
45 S.S. NA 329 14 14.04	1680.89501	38	13,479.40966	7,401.91458
45 S.S. NA 266 28 13.21	238.48467	52	12,020.34685	8,023.63412
45 S.S. NA 269 08 13.04	841.12242	59	12,022.35993	7,420.63940
START		42	13,007.47091	6,575.30377
42 S.S. NA 60 16 35.62	951.84642	38	13,479.40966	7,401.91458
42 S.S. NA 189 36 10.40	995.68628	54	12,025.73656	6,409.20490
42 S.S. NA 349 20 00.23	857.04054	57	13,849.70252	6,416.67085
START		7	14,666.47243	7,619.05892
7 S.S. NA 89 50 47.54	4716.87600	2	14,679.10600	12,335.91800
~~7 INV NA 196 18 07.71~~	~~743.13558~~	~~61~~	~~13,953.21476~~	~~7,410.45886~~ See p. 21
START		58	14,667.45837	7,440.57164
OFFSET INTERSECTION				
NA 90 18 59.36	16.00000			
NA 180 25 54.29	0.00000			
		66	14,651.45879	7,440.45108
START		63	14,667.59646	7,415.57202
OFFSET INTERSECTION				
NA 90 18 59.36	16.00000			
NA 180 24 36.31	0.00000			
		62	14,651.59685	7,415.45751
START		58	14,667.45837	7,440.57164
58 TRAV NA 180 25 54.29	714.40000	60	13,953.07865	7,435.18841
START		7	14,666.47243	7,619.05892
7 S.S. NA 194 27 10.41	736.70825	60	13,953.07865	7,435.18841 — ok
7 S.S. NA 196 18 07.71	743.13558	61	13,953.21476	7,410.45886 — see p. 21
7 S.S. NA 265 11 42.20	179.23775	66	14,651.45879	7,440.45108
7 INV NA 265 49 16.56	204.14411	62	14,651.59685	7,415.45751

TIME FOR THIS RUN: 1 40 23.15; TOTAL TIME ON FILE: 4 55 06.62
COORDINATES STORED



```
---------------------------------------------------------------------------
COORDINATE FILE:1352WA LENGTH =  176 POINTS; TIME ON FILE:   4 55 06.62
CORNER PERPETUATION              ***** JOB #1993
---------------------------------------------------------------------------
************* COGO *************
-------------------------------------------------------------------------------------
FROM TYPE          BEARING     DISTANCE   TO          NORTHING          EASTING
-------------------------------------------------------------------------------------
START                                     63      14,667.59646      7,415.57202
  63 TRAV SW   0 25 54.29    714.40000   61      13,953.21674      7,410.18879
  61 TRAV SE  89 41 00.64     25.00000   60      13,953.07865      7,435.18841
  60  INV NE   0 25 54.29    714.40000   58      14,667.45837      7,440.57164
OFFSETS FROM A LINE
                                          59      12,022.35993      7,420.63940
BASE BRG  NE   0 25 54.29
  PT    BASE DIST       OFFSET
  60   1930.77354      0.00000
  61   1930.72325    -24.99995
  58   2645.17354      0.00000

START                                   START
   7 TRAV NA   0 00 00.00      0.00000    0      14,666.47243      7,619.05892


START                                     7      14,666.47243      7,619.05892
   7  INV NA  89 50 47.54   4716.87600    2      14,679.10600     12,335.91800
START                                     7      14,666.47243      7,619.05892
   7 S.S. NA 194 27 10.41    736.70825   60      13,953.07865      7,435.18841
   7  INV NA 196 19 19.80    743.20953   61      13,953.21674      7,410.18879


TIME FOR THIS RUN:    0 06 47.33; TOTAL TIME ON FILE:   5 01 53.95
COORDINATES STORED
```

```
---------------------------------------------------------------------------
COORDINATE FILE:1352WA LENGTH =  176 POINTS; TIME ON FILE:   5 01 53.95
CORNER PERPETUATION                ***** JOB #1993
---------------------------------------------------------------------------
************* COGO *************
-------------------------------------------------------------------------------
FROM TYPE          BEARING      DISTANCE   TO          NORTHING          EASTING
-------------------------------------------------------------------------------
WHICKER TO GOOD:
LOT SUMMARY
                                           6      14,664.19382      8,031.56263
   6       NW  89 41 00.64     591.00000   58      14,667.45836      7,440.57164
  58       SW   0 25 54.29    2645.17354   59      12,022.35992      7,420.63936
  59       SE  89 48 31.40     602.99808   52      12,020.34685      8,023.63408
  52       SE  89 48 31.40     660.00000   65      12,018.14350      8,683.63040
  65       NE   0 10 18.43    2642.58490   64      14,660.71652      8,691.55348
  64       NW  89 41 53.26     660.00000    6      14,664.19382      8,031.56264
                                           6      14,664.19382      8,031.56263
           NW  82 19 40.98       0.00001 CLOSING LINE
     7,801.757 DIST TRAV
PERFECT CLOSURE
-----------------------------------
AREA  3323292.22 SF   76.2923 ACRES
-----------------------------------

GOOD TO WHICKER:
LOT SUMMARY
                                          58      14,667.45837      7,440.57164
  58       NW  89 41 00.64      25.00000   63      14,667.59646      7,415.57202
  63       SW   0 25 54.29     714.40000   61      13,953.21674      7,410.18878
  61       SW  84 03 06.62     998.89593   57      13,849.70254      6,416.67084
  57       SW   0 14 04.29    1823.98124   54      12,025.73658      6,409.20488
  54       SE  89 48 31.40    1011.44014   59      12,022.35997      7,420.63939
  59       NE   0 25 54.29    2645.17354   58      14,667.45841      7,440.57167
                                          58      14,667.45837      7,440.57164
           SW  30 02 32.66       0.00005 CLOSING LINE
     7,218.891 DIST TRAV
PERFECT CLOSURE
-----------------------------------
AREA  1924129.59 SF   44.1719 ACRES
-----------------------------------

WRAY TO WHICKER:
LOT SUMMARY
                                          58      14,667.45837      7,440.57164
  58       NW  89 41 00.64      25.00000   63      14,667.59646      7,415.57202
  63       SW   0 25 54.29     714.40000   61      13,953.21674      7,410.18878
  61       SE  89 41 00.64      25.00000   60      13,953.07865      7,435.18840
  60       NE   0 25 54.29     714.40000   58      14,667.45837      7,440.57164
                                          58      14,667.45837      7,440.57164
           NE   0 00 00.00       0.00000 CLOSING LINE
     1,478.800 DIST TRAV
PERFECT CLOSURE
-----------------------------------
AREA    17859.96 SF      .4100 ACRES
-----------------------------------
LIST
                                           1      15,539.46800     12,336.96300
```

Take out-lot to Robt. L. & Virginia Moore out of this. D.R. 332/823(3)

2	14,679.10600	12,335.91800
3	14,662.04778	10,693.80655
4	14,668.90385	11,353.77322
5	14,689.92327	10,692.82465
6	14,664.19382	8,031.56263
7	14,666.47243	7,619.05892
8	14,678.83757	5,380.55707
9	14,656.82977	9,364.70029
11	14,672.00657	10,710.43657
12	14,650.16747	10,693.75053
13	19,997.74000	12,267.36100
14	19,996.47759	10,717.41751
15	19,981.95868	10,717.36599
16	9,343.70569	10,667.43551
17	9,329.29047	10,706.28854
18	9,361.19812	8,015.65973
19	11,831.25209	10,779.92514
20	11,991.77190	10,687.17103
21	14,685.28312	11,473.72433
22	12,069.22188	10,680.63259
23	12,125.19633	10,674.54463
24	12,037.80412	10,682.96711
25	12,037.45109	10,682.99334
26	13,718.64500	15,260.30200
27	14,555.47800	17,675.96800
28	13,351.43800	14,201.08100
29	13,629.04200	15,002.25000
30	13,356.05800	14,201.81700
31	13,411.63000	14,210.67400
32	13,689.48700	15,002.10500
33	12,132.04987	10,681.26305
34	12,121.95000	10,681.21297
35	12,174.49446	10,681.47354
36	11,989.03674	10,680.55384
37	12,011.47646	10,680.66512
38	13,479.40966	7,401.91458
39	13,953.93756	7,435.85296
40	13,953.07028	7,410.02167
41	13,846.11229	6,423.58333
42	13,007.47091	6,575.30377
43	12,029.20687	5,369.71069
44	12,011.92597	9,697.05631
45	12,035.02923	8,261.66640
46	12,009.92563	7,162.25297
47	12,008.63928	7,160.98372
48	12,029.07636	7,438.68793
49	12,021.85343	6,414.49329
50	12,021.27169	6,414.66833
51	14,651.34088	7,439.66997
52	12,020.34685	8,023.63412
53	14,673.09562	6,420.04121
54	12,025.73656	6,409.20490
56	12,022.37642	7,415.69929
57	13,849.70252	6,416.67085
58	14,667.45837	7,440.57164
59	12,022.35993	7,420.63940
60	13,953.07865	7,435.18841
61	13,953.21674	7,410.18879
62	14,651.59685	7,415.45751
63	14,667.59646	7,415.57202

64	14,660.71651	8,691.55347
65	12,018.14348	8,683.63044
66	14,651.45879	7,440.45108

TIME FOR THIS RUN: 0 11 20.04; TOTAL TIME ON FILE: 5 13 13.99
COORDINATES STORED

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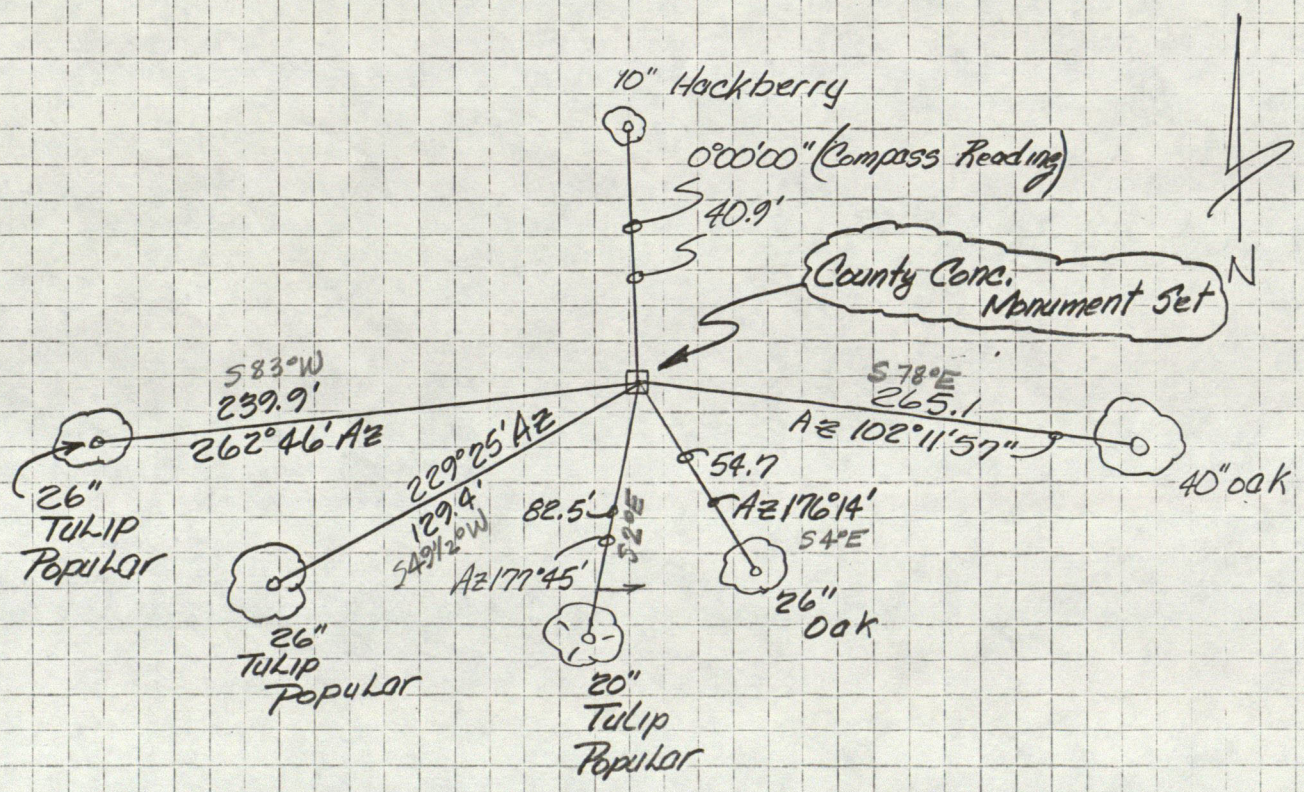
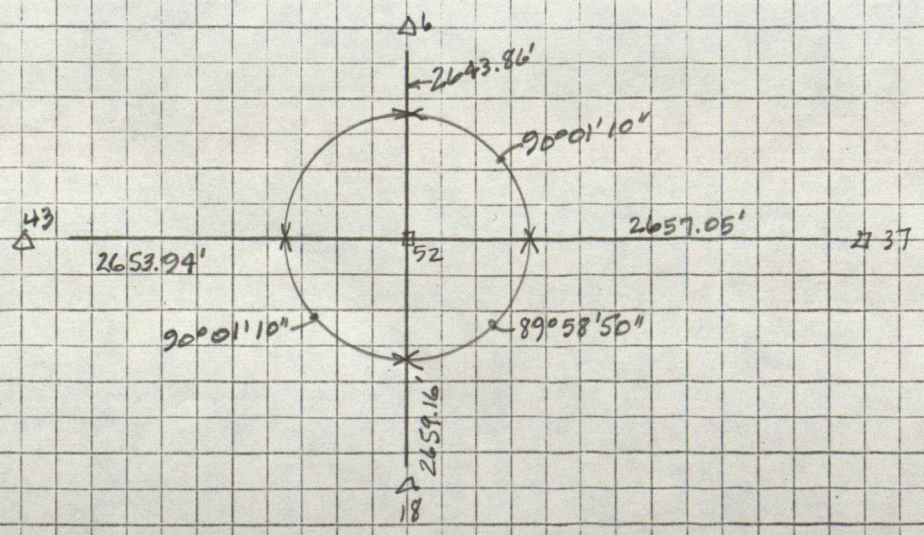
---------------------------------------------------------------------------
COORDINATE FILE:1352WA LENGTH =  232 POINTS; TIME ON FILE:  10 49 57.20
CORNER PERPETUATION              ***** JOB #1993
---------------------------------------------------------------------------
************* COGO *************
-------------------------------------------------------------------------------
FROM TYPE         BEARING     DISTANCE   TO         NORTHING          EASTING
-------------------------------------------------------------------------------
PT-PT ANGLES
ANG 52 - 38 - 43 :  C.W.  77 34 01.97  C.C.W. 282 25 58.03   2496.58583
START                                   38     13,479.40966      7,401.91458
  38  INV SE  23 04 45.41   1586.00109   52     12,020.34685      8,023.63412
PT-PT ANGLES
PT-PT ANGLES
ANG 17 - 19 - 37 :  C.W. 149 28 12.21  C.C.W. 210 31 47.79    205.75076
ANG 19 - 37 - 52 :  C.W. 119 02 07.45  C.C.W. 240 57 52.55   2657.04581
ANG 37 - 52 - 43 :  C.W. 180 00 00.00  C.C.W. 180 00 00.00   2653.93822
TIME FOR THIS RUN:    0 04 18.84; TOTAL TIME ON FILE:  10 54 16.04
COORDINATES STORED
```

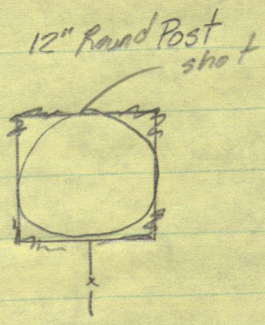
Center of Section
13 T15 R2W



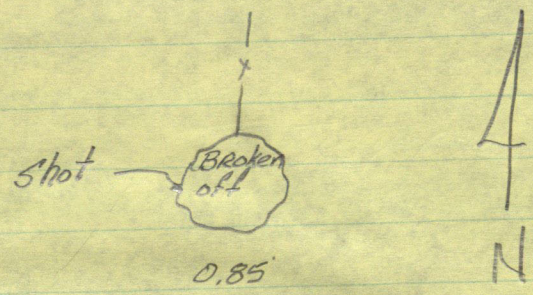


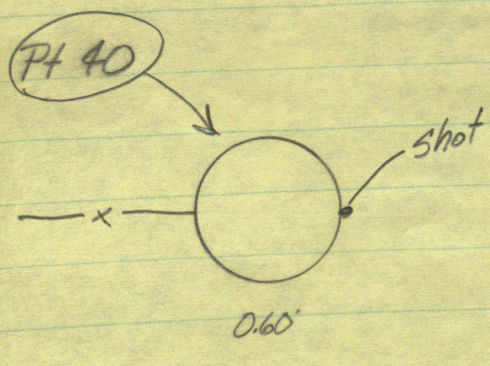
Whicker

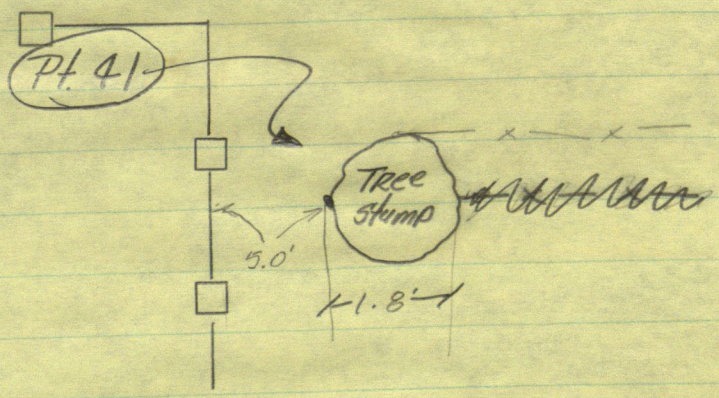
Pt 51

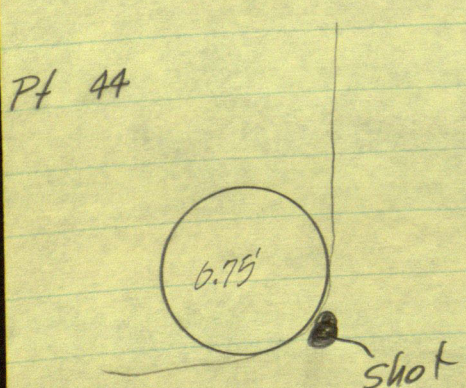


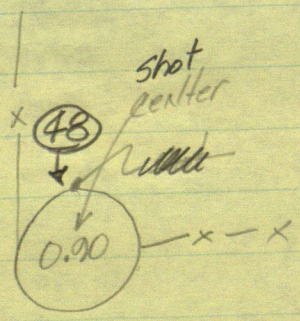
Pt 39

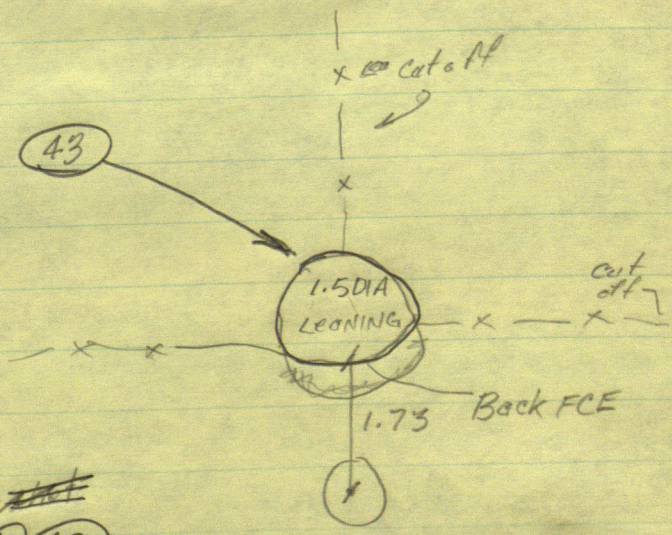


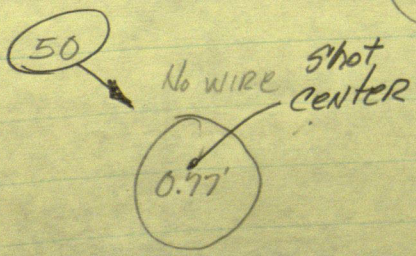


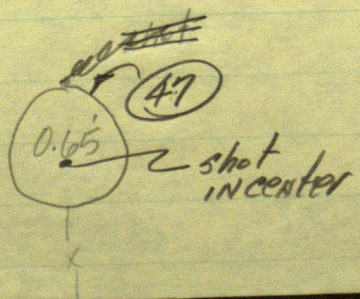






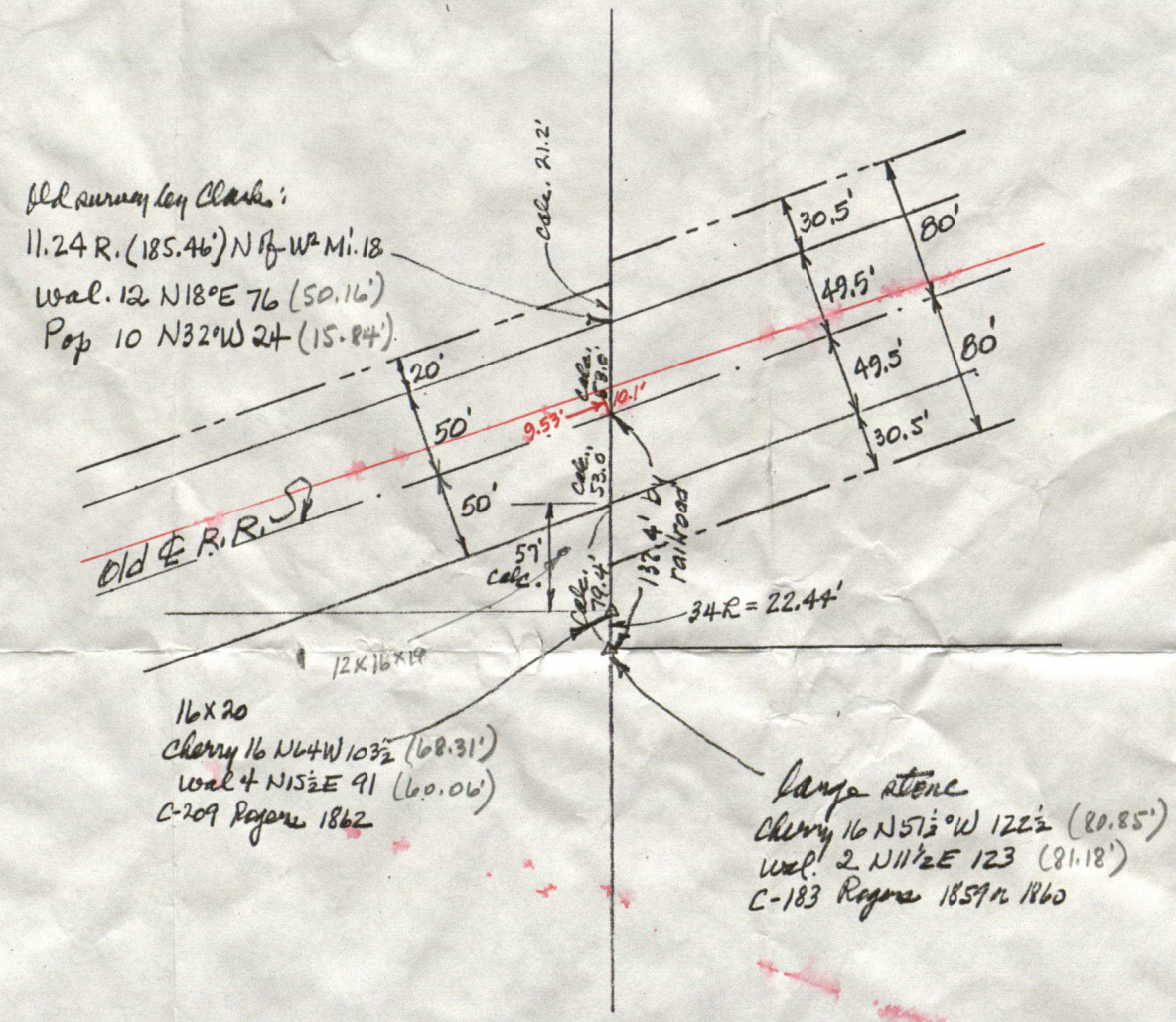


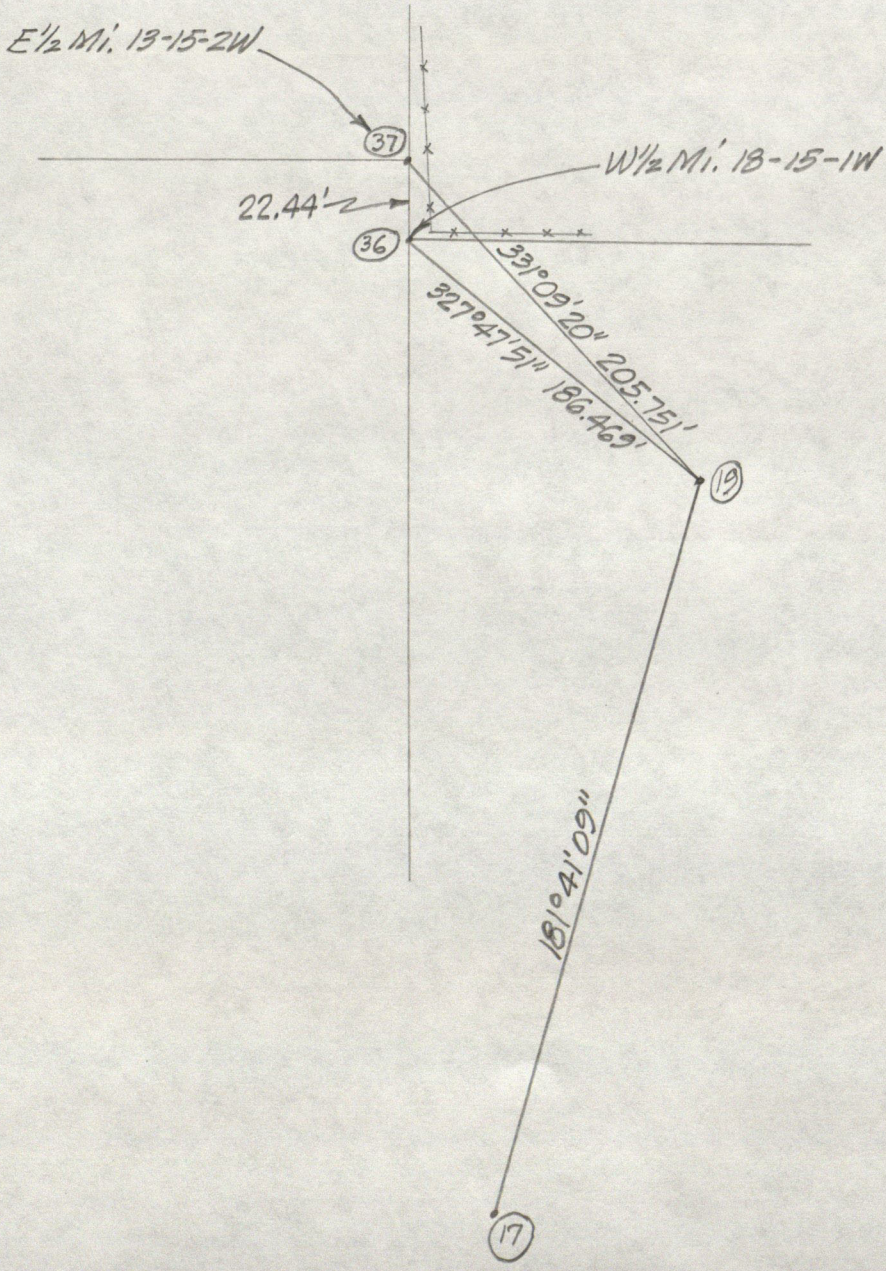




Point desc. Whicker & Hend. Co.

38 Temp. RR. Spk Set
39. Broken off Fence Post @ E. Side end of Field entrance
40. " " " W. " " " " "
41. old Tree stump w/ wire wrapped around
42. Temp. RR Spk Set
43. Stone found @ SW Cor. of NW¼ Sec 13
44. Fence post Fnd. @ N. R.O.W. of R.R.
45. Temp. RR Spk Set Near S. Line of NE¼ Sec. 13
46. ¼" pin ±2' above Ground
47. Center of wood post
48. " " " "
49. Bent 5/8" Rebar found
50. Center of wood post
51. Center N. Side of Wood Fence Post


Old survey by Clark:
11.24 R. (185.46') N 1/2 W 2 Mi. 18
wal. 12 N18°E 76 (50.16')
Pop 10 N32°W 24 (15.84')
calc. 21.2'
30.5'
80'
49.5'
49.5'
80'
30.5'
20'
50'
9.5'
calc. 13.0
10.1'
calc. 53.0
50'
Old ℄ R.R.
57' calc.
calc. 79.4'
132.4' by railroad
34 R = 22.44'
12 X 16 X 19
16 X 20
Cherry 16 N64W 103½ (68.31')
wal 4 N15½E 91 (60.06')
C-209 Rogers 1862
large stone
Cherry 16 N57½°W 122½ (80.85')
wal. 2 N11½E 123 (81.18')
C-183 Rogers 1859 & 1860

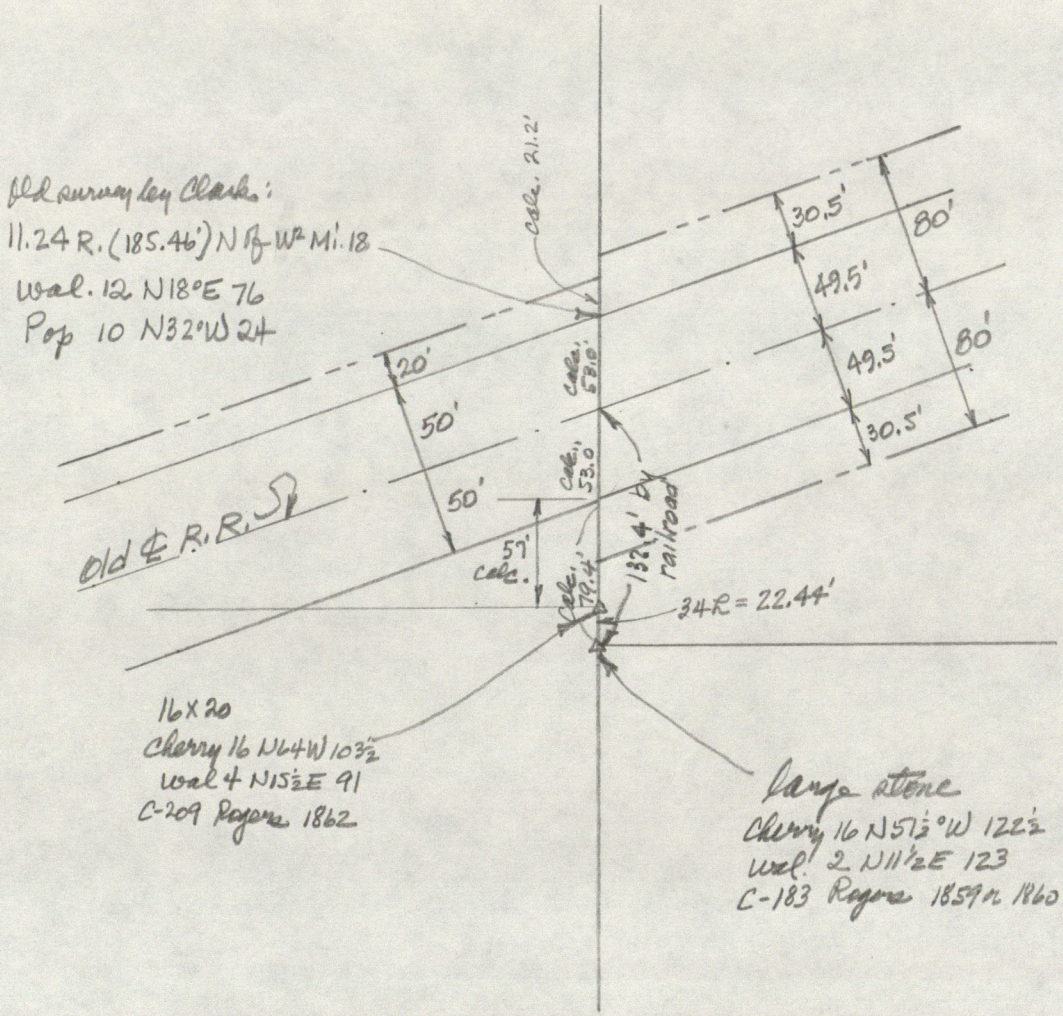

E½ Mi. 13-15-2W
37
W½ Mi. 18-15-1W
22.44'
36
331°09'20" 205.751'
327°47'51" 186.469'
19
181°41'09"
17

From Alva Stanley Road notes in Field Book 66:

	Shortle	Old notes	newer notes
℄ bridge	16+49.0	100+06*	16+49
cor. stone	26+78.7	110+36	26+78.7
R.R. spike found	26+81.4		
bridge		134+97	
℄ culvert	51+00.2	134+65**	
R.R. spike found	53+36.1		
cor. stone		137+00	53+41.6
I.P. found	66+29.66		
cor. stone			66+32.2
fence N & S		149+94	
		↑	↑
		CCF=0.99853	CCF = 0.99962

* the notes say 99+06 but are surely wrong by 100'

** field notes say 135+65; plans 135+85; both are wrong


Old survey by Clark:
11.24 R. (185.46') N of W² M'. 18
Wal. 12 N18°E 76
Pop 10 N32°W 24
calc. 21.2'
30.5'
80'
49.5'
49.5'
80'
30.5'
20'
50'
50'
calc. 53.0
calc. 53.0
Old ℄ R. R.
57' calc.
calc. 79.4'
132.4' by railroad
34R = 22.44'
16 X 20
Cherry 16 N64W 10 3/2
Wal 4 N15 1/2 E 91
C-209 Rogers 1862
large stone
Cherry 16 N57 1/3 °W 122 1/2
Wal 2 N11 1/2 E 123
C-183 Rogers 1859 or 1860

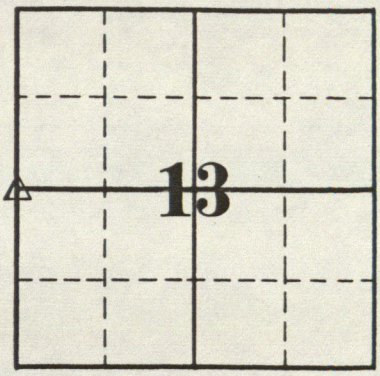
RECORD OF CORNER

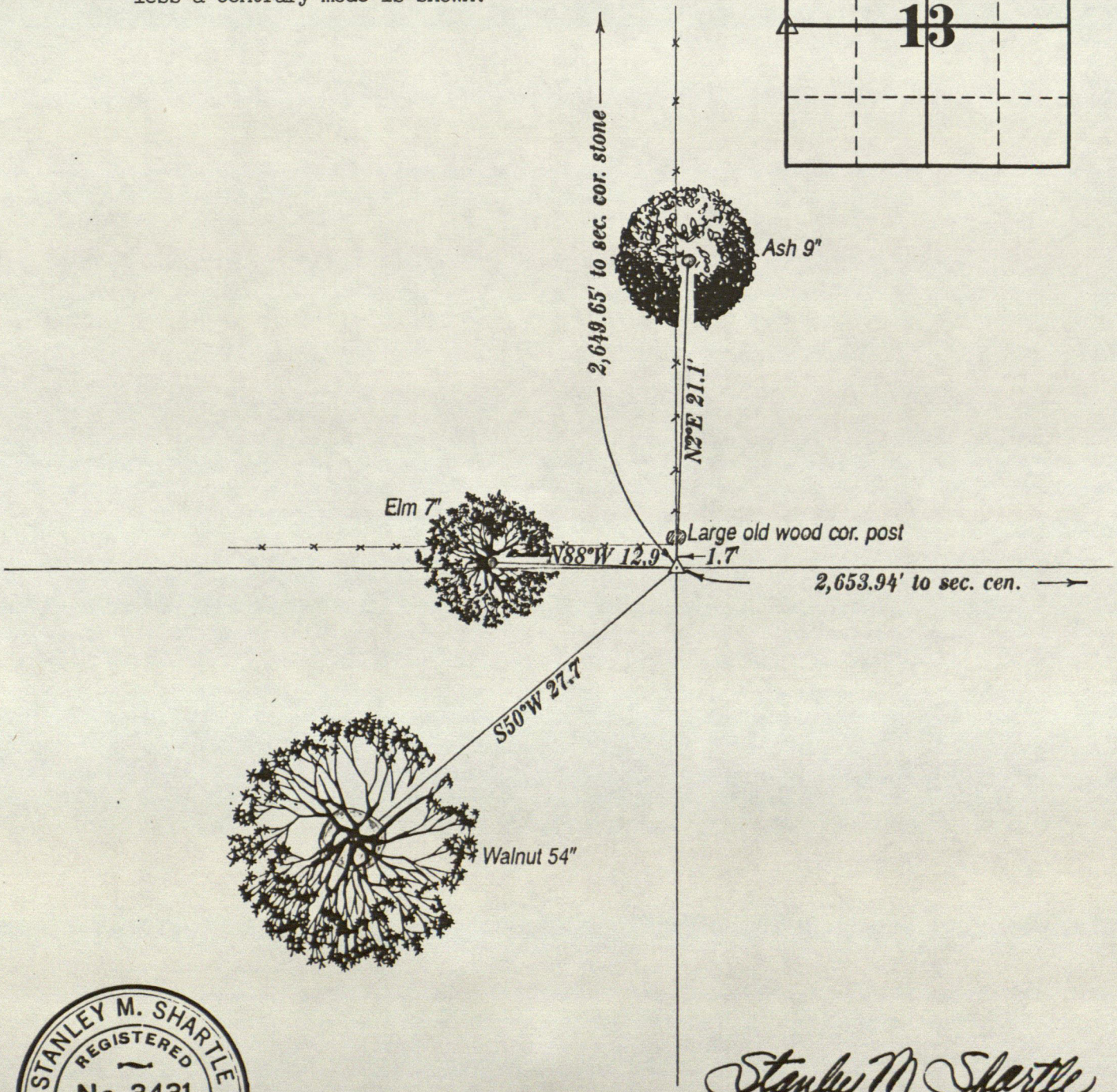
LOCATION OF MONUMENT: SECTION 13, T. 15 N., R. 2 W.

Found: ✓ Set: ___ Depth: Showing 3 inches

Description: Dimple in large pink-tan stone

Bearings to reference objects are magnetic unless a contrary mode is shown.





STANLEY M. SHARTLE
REGISTERED
No. 3431
STATE OF
INDIANA
LAND SURVEYOR

Stanley M. Shartle

Stanley M. Shartle, P.E. & L.S.

Date: March 15, 1994

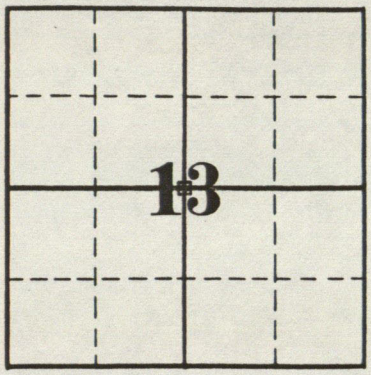
RECORD OF CORNER

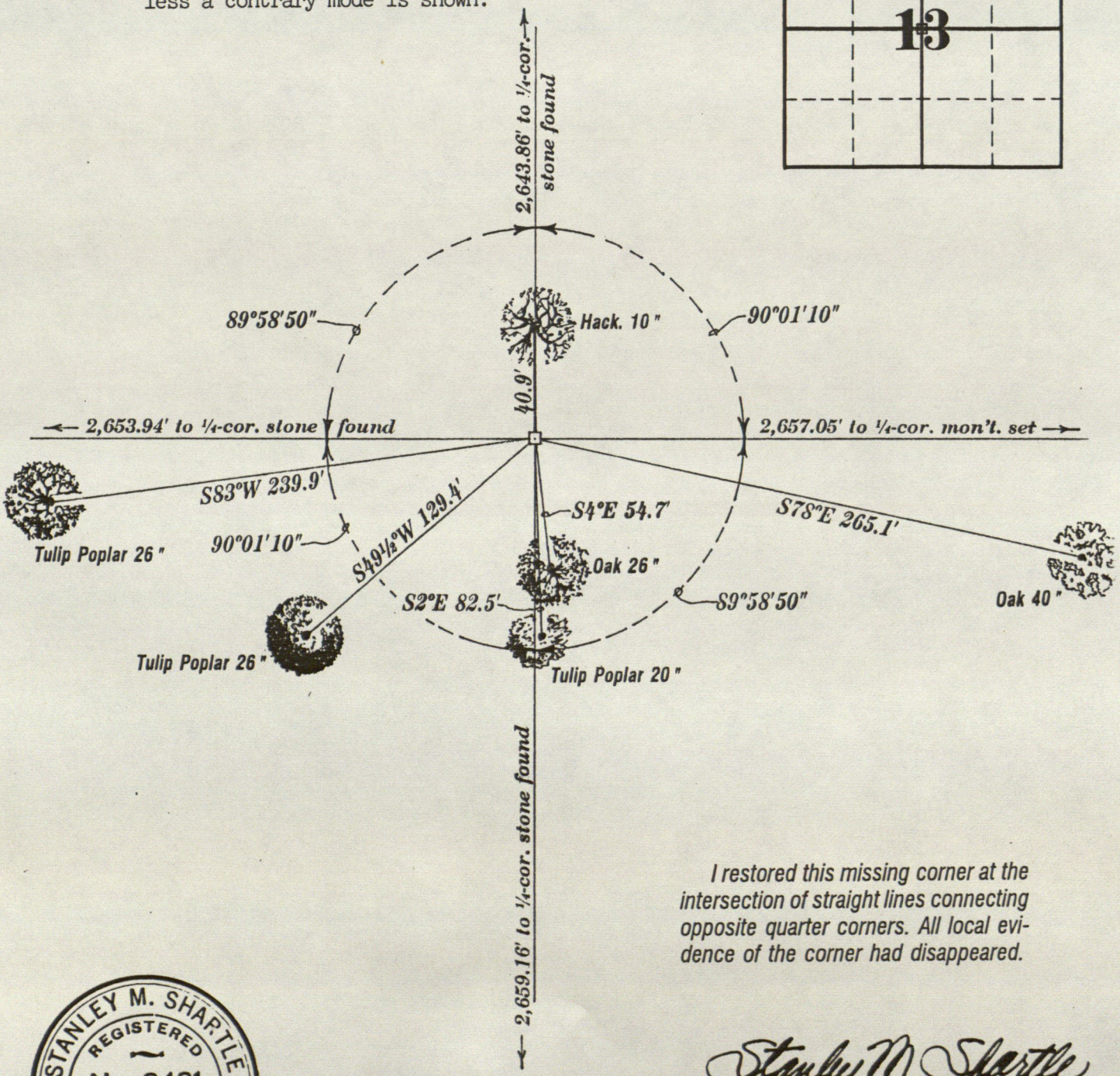
LOCATION OF MONUMENT: SECTION 13, T. 15 N., R. 2 W.

Found: ___ Set: ✓ Depth: Showing about 4 inches

Description: Rebar in concrete monument

Bearings to reference objects are magnetic unless a contrary mode is shown.





I restored this missing corner at the intersection of straight lines connecting opposite quarter corners. All local evidence of the corner had disappeared.

STANLEY M. SHARTLE
REGISTERED
No. 3431
STATE OF
INDIANA
LAND SURVEYOR

Stanley M. Shartle

Stanley M. Shartle, P.E. & L.S.

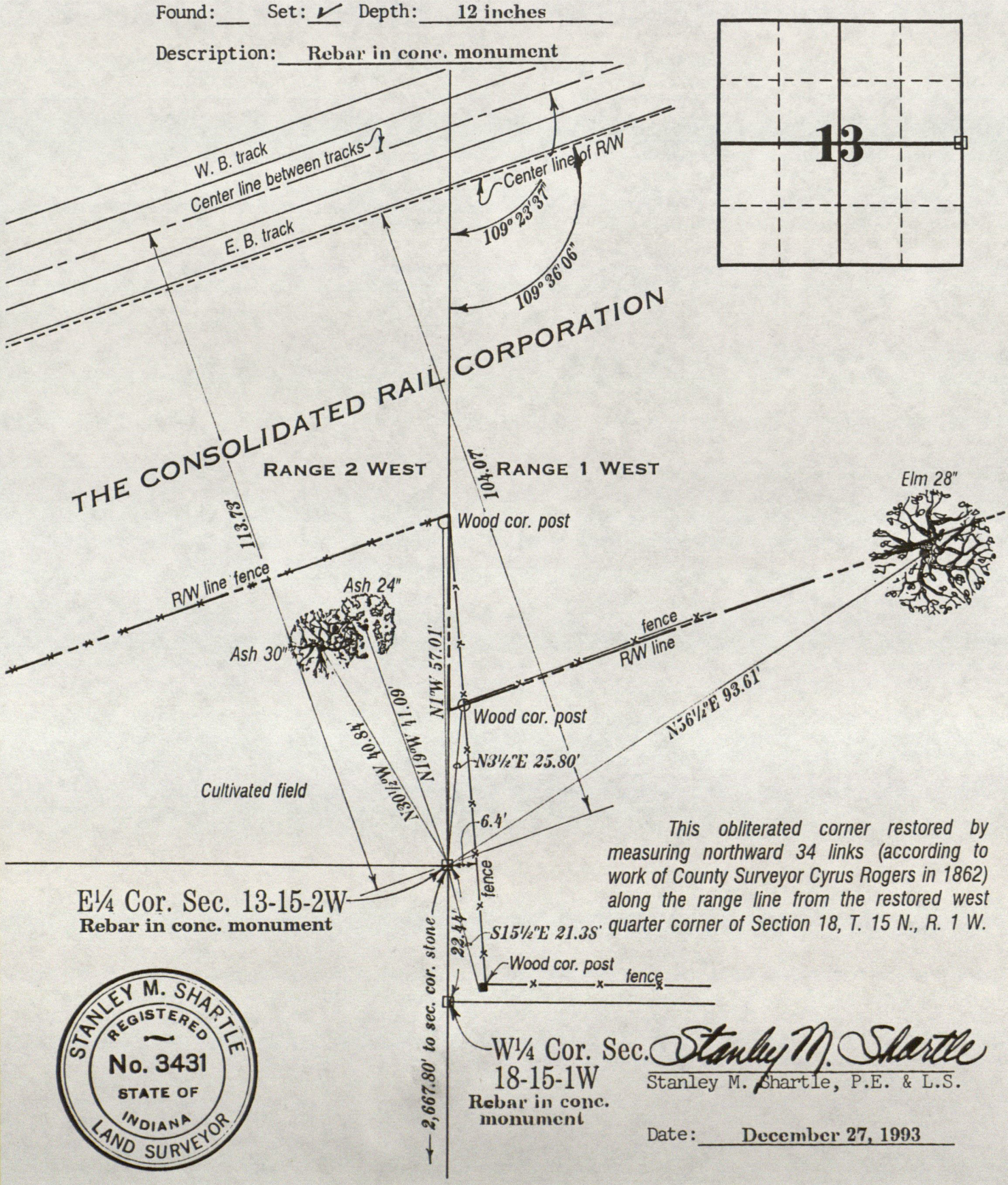
Date: April 1, 1994

RECORD OF CORNER

LOCATION OF MONUMENT: SECTION 13, T. 15 N., R. 2 W.

Found: ___ Set: ✓ Depth: 12 inches

Description: Rebar in conc. monument



This obliterated corner restored by measuring northward 34 links (according to work of County Surveyor Cyrus Rogers in 1862) along the range line from the restored west quarter corner of Section 18, T. 15 N., R. 1 W.

Stanley M. Shartle

Stanley M. Shartle, P.E. & L.S.

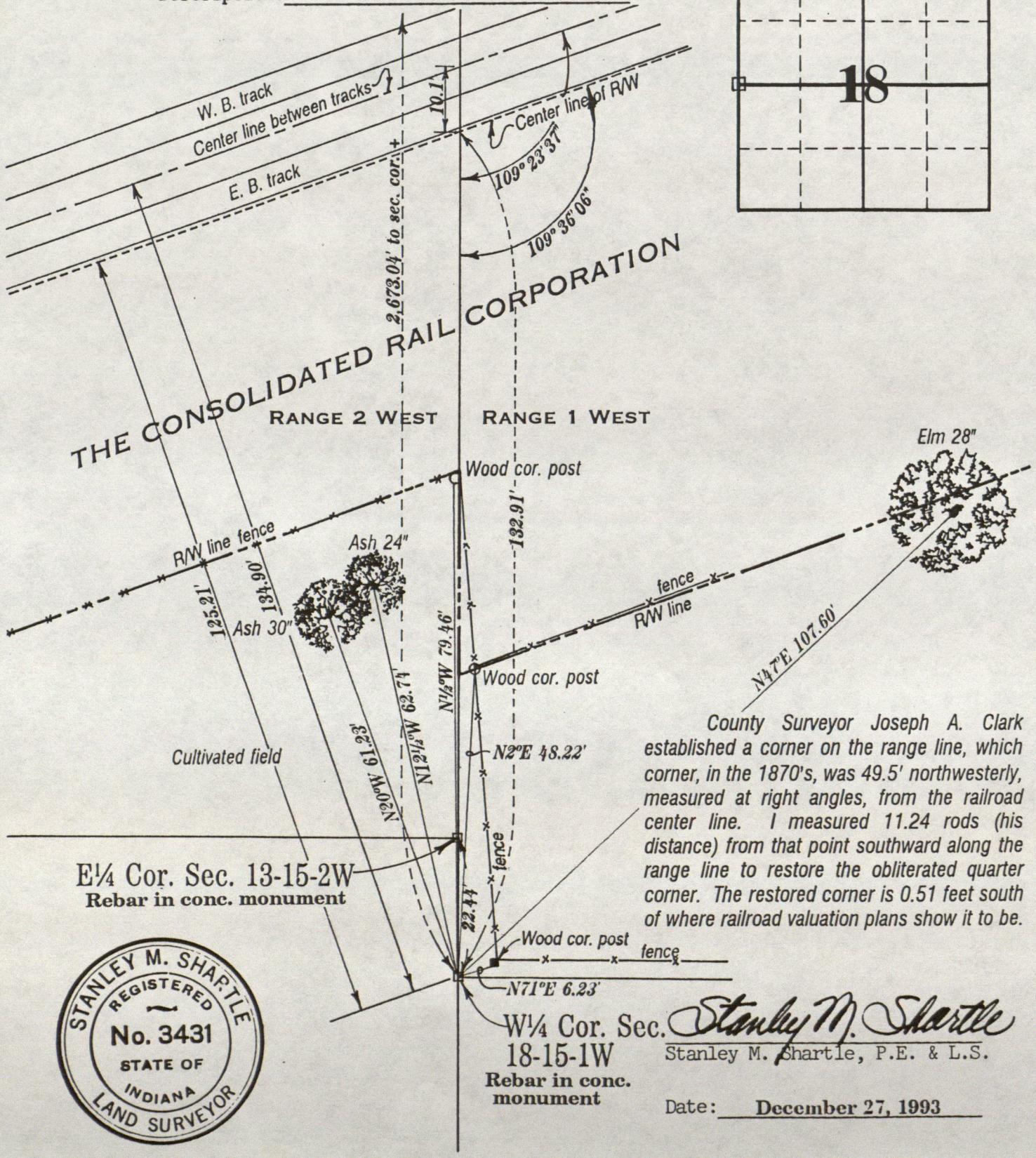
Date: December 27, 1993

RECORD OF CORNER

LOCATION OF MONUMENT: SECTION 18, T. 15 N., R. 1 W.

Found: ___ Set: ✓ Depth: 12 inches

Description: Rebar in conc. monument



County Surveyor Joseph A. Clark established a corner on the range line, which corner, in the 1870's, was 49.5' northwesterly, measured at right angles, from the railroad center line. I measured 11.24 rods (his distance) from that point southward along the range line to restore the obliterated quarter corner. The restored corner is 0.51 feet south of where railroad valuation plans show it to be.

Stanley M. Shartle

Stanley M. Shartle, P.E. & L.S.

Date: December 27, 1993

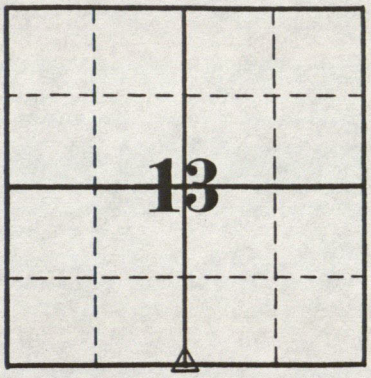
RECORD OF CORNER

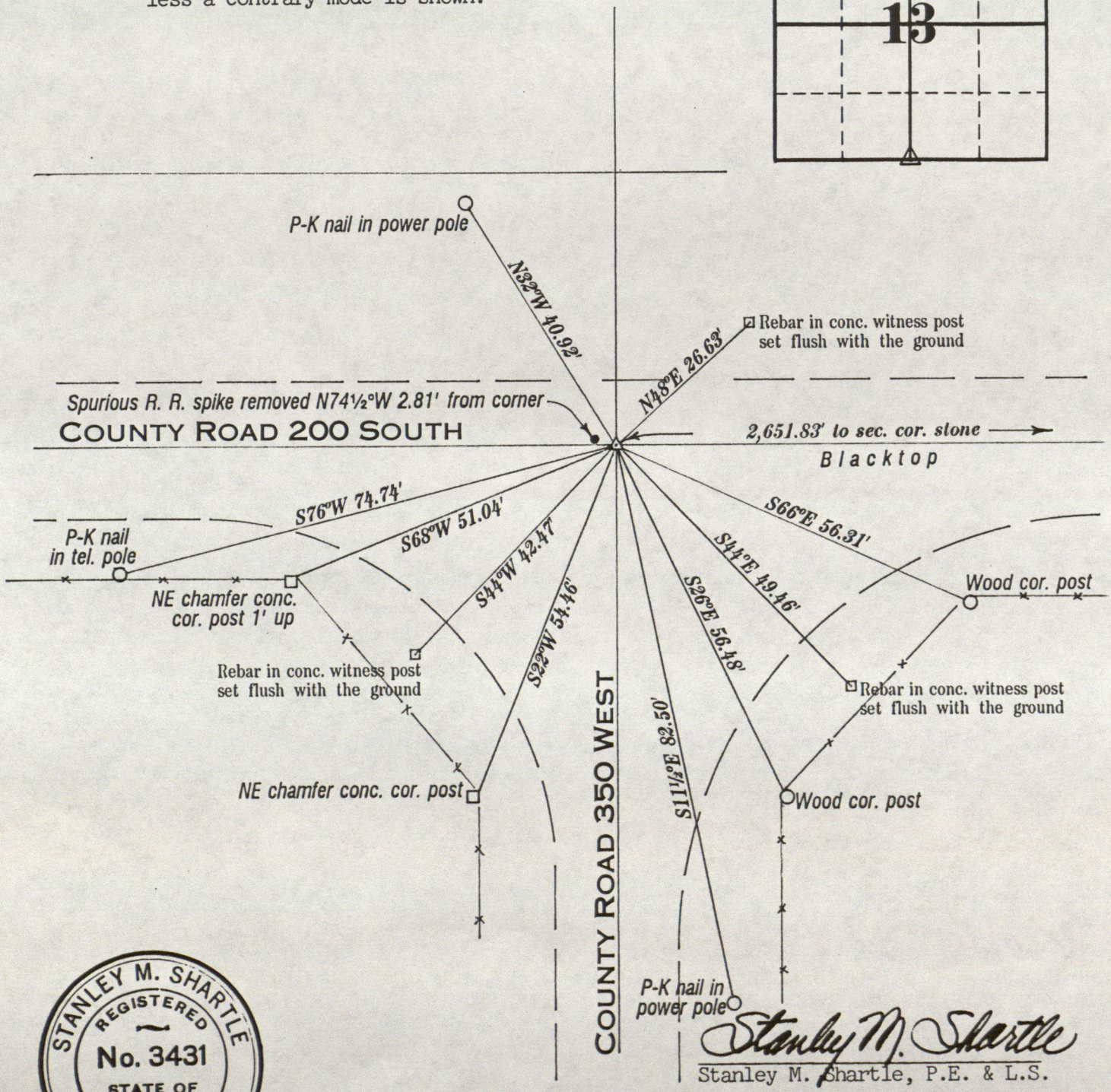
LOCATION OF MONUMENT: SECTION 13, T. 15 N., R. 2 W.

Found: ✓ Set: ___ Depth: 28½ inches

Description: County cap on I.P. set above dimple atop very hard stone

Bearings to reference objects are magnetic unless a contrary mode is shown.





Stanley M. Shartle

Stanley M. Shartle, P.E. & L.S.

Date: December 21, 1993

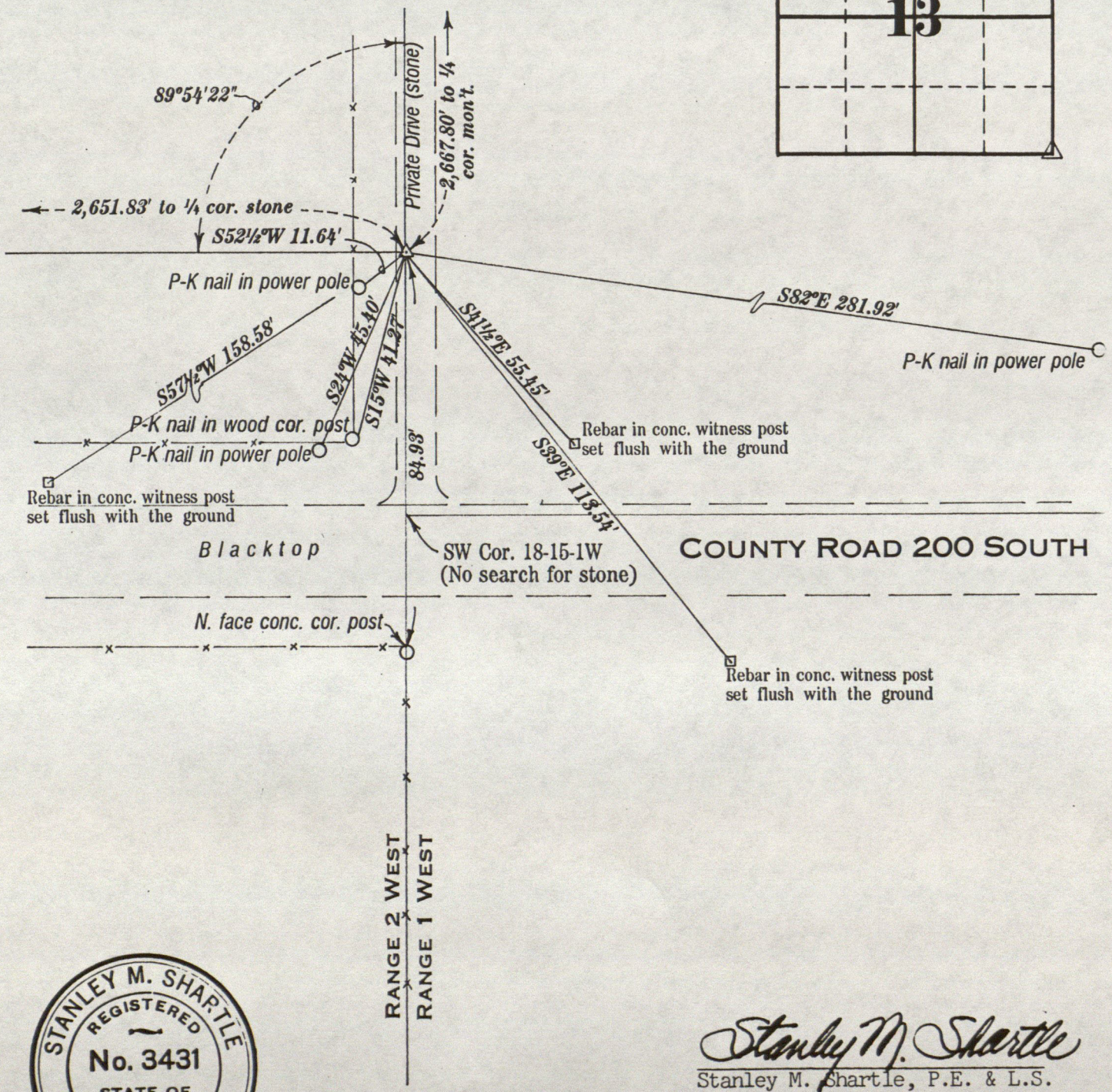
RECORD OF CORNER

LOCATION OF MONUMENT: SECTION 13, T. 15 N., R. 2 W.

Found: ✓ Set: ___ Depth: **Showing 4 inches**

Description: **Cross atop broken stone**

Bearings to reference objects are magnetic unless a contrary mode is shown.



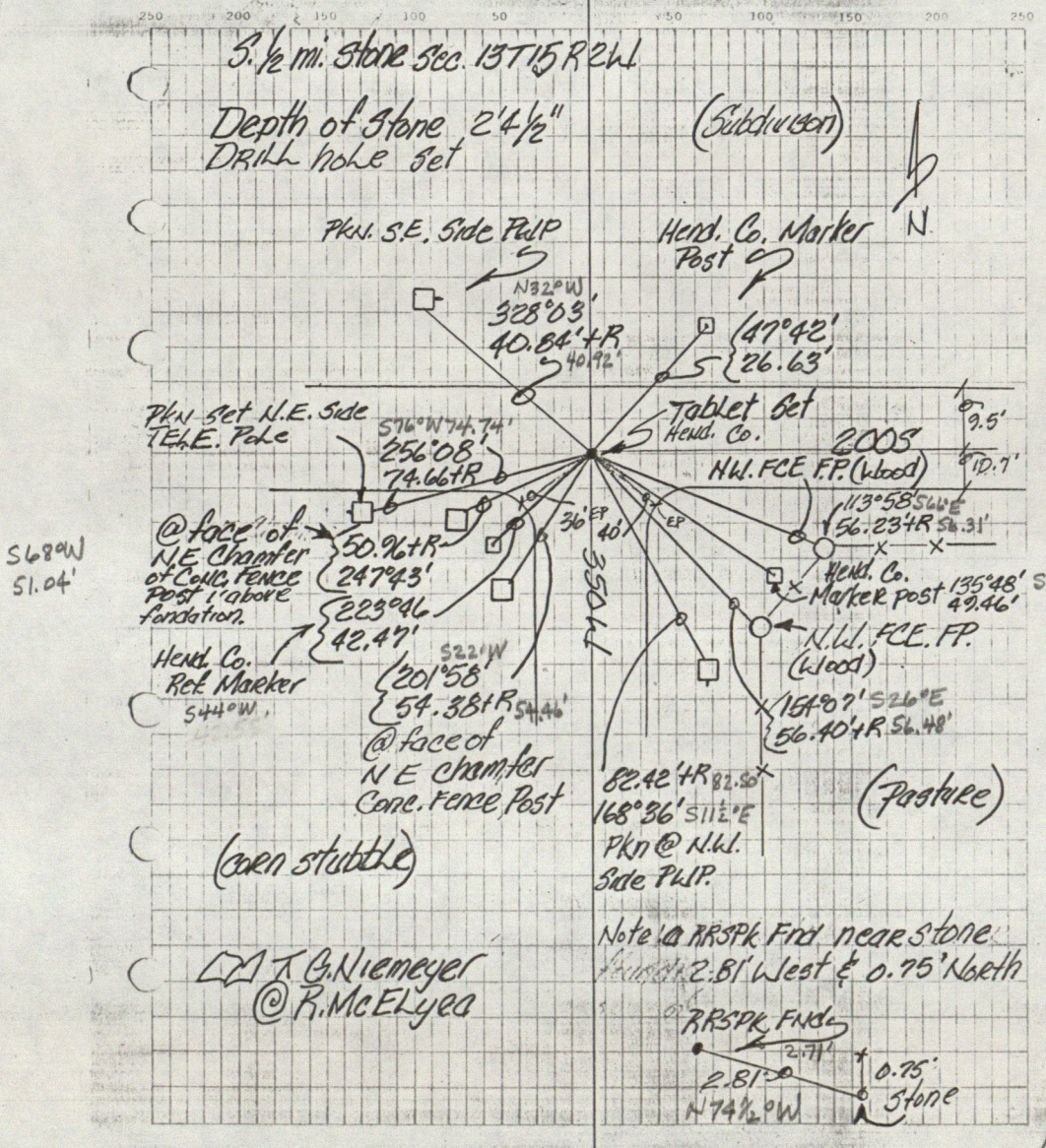
STANLEY M. SHARTLE
REGISTERED
No. 3431
STATE OF
INDIANA
LAND SURVEYOR

Stanley M. Shartle

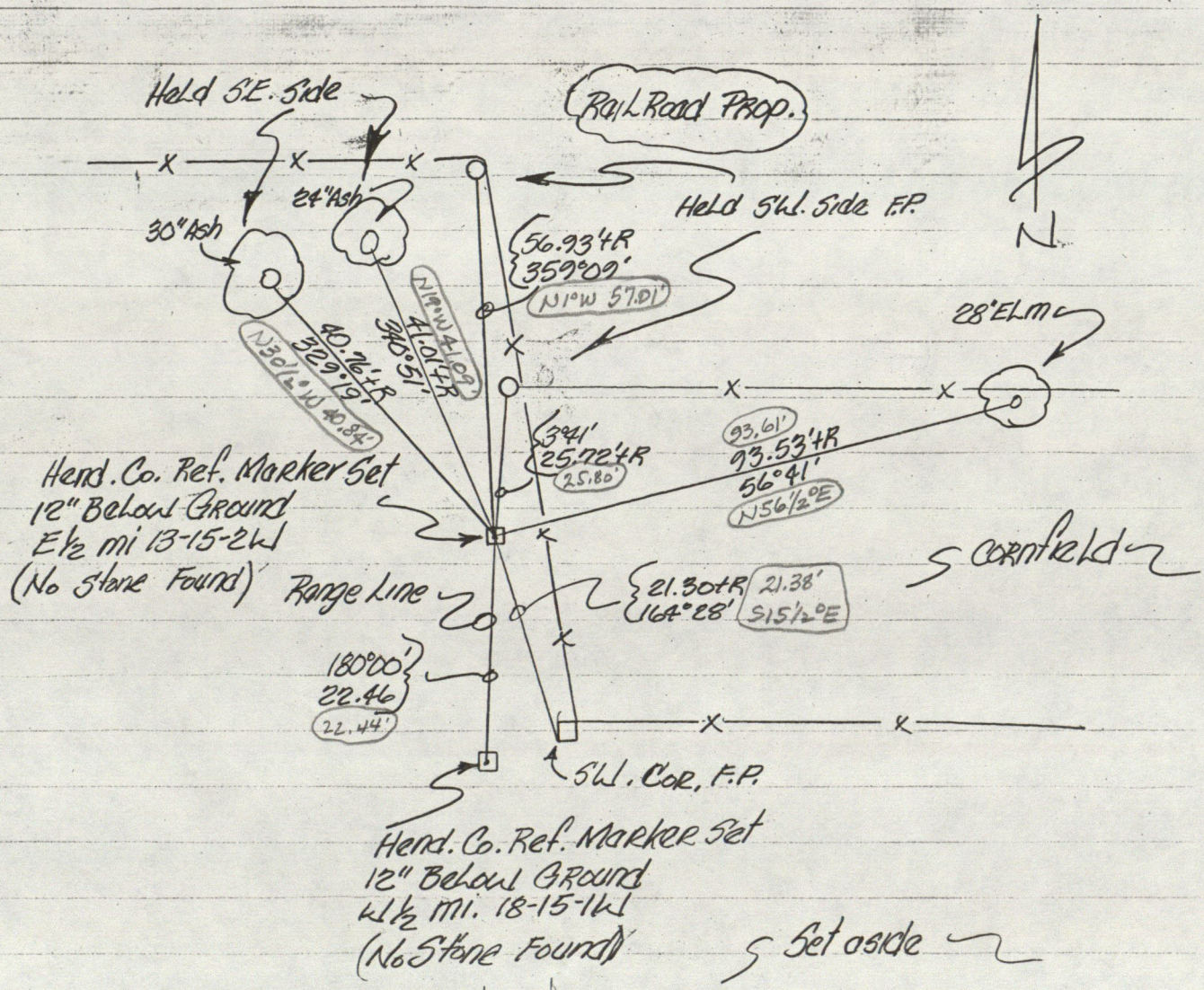
Stanley M. Shartle, P.E. & L.S.

Date: **December 14, 1993**

PROJ. NO. _____ LINE _____ PAGE 4 OF _____



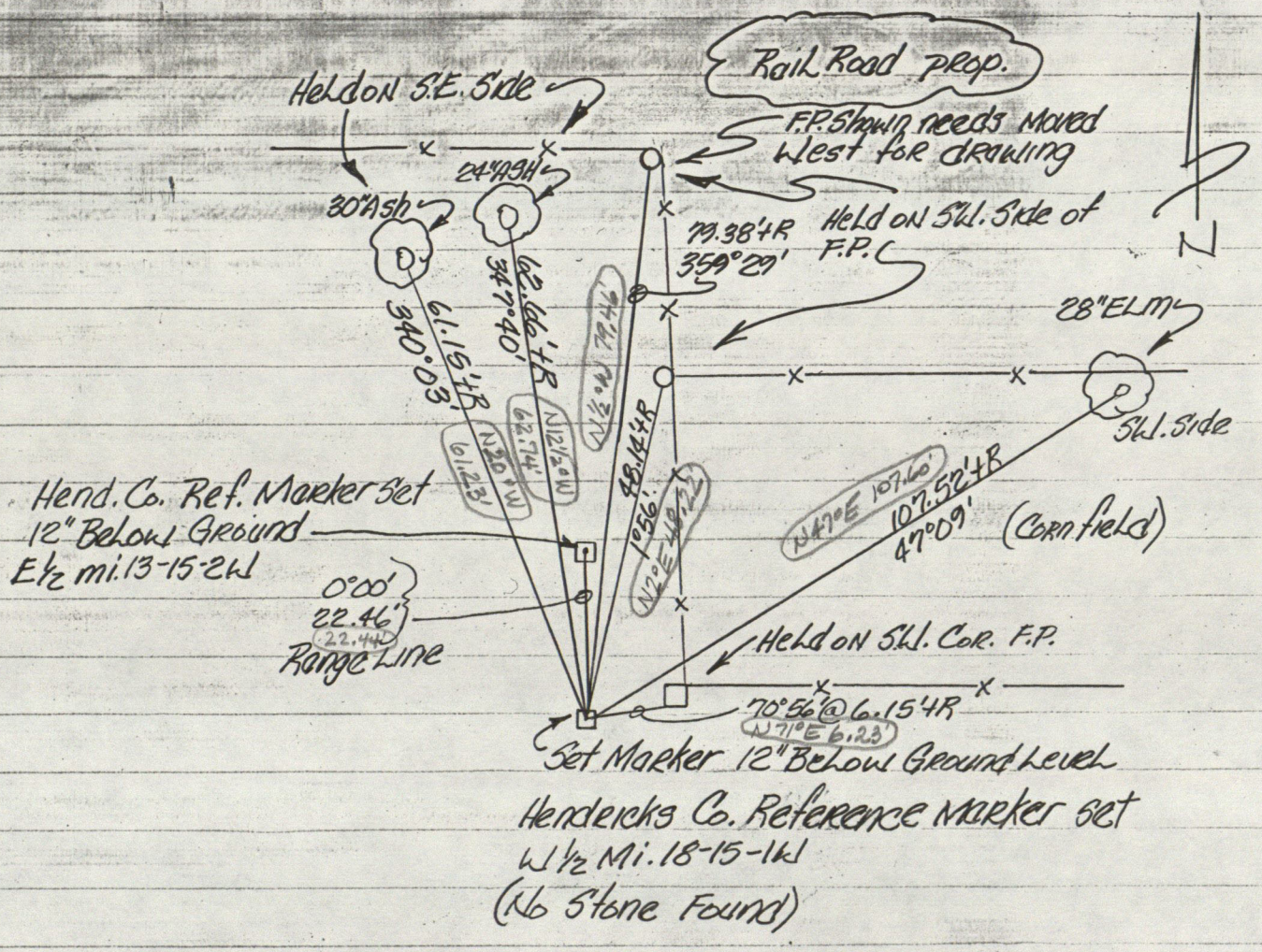
(E½ mi. 13-15-2W)



12/27/93

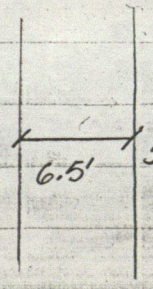
D.G. Niemeyer
© R. McElyea

(W ½ Mi. 18-15-1W)



Hendricks Co. Reference Marker set
W ½ Mi. 18-15-1W
(No Stone Found)

12/27/93
G. Niemeyer
© R. McElyea



Perp. dist. FROM FCL to Sec. Cor.

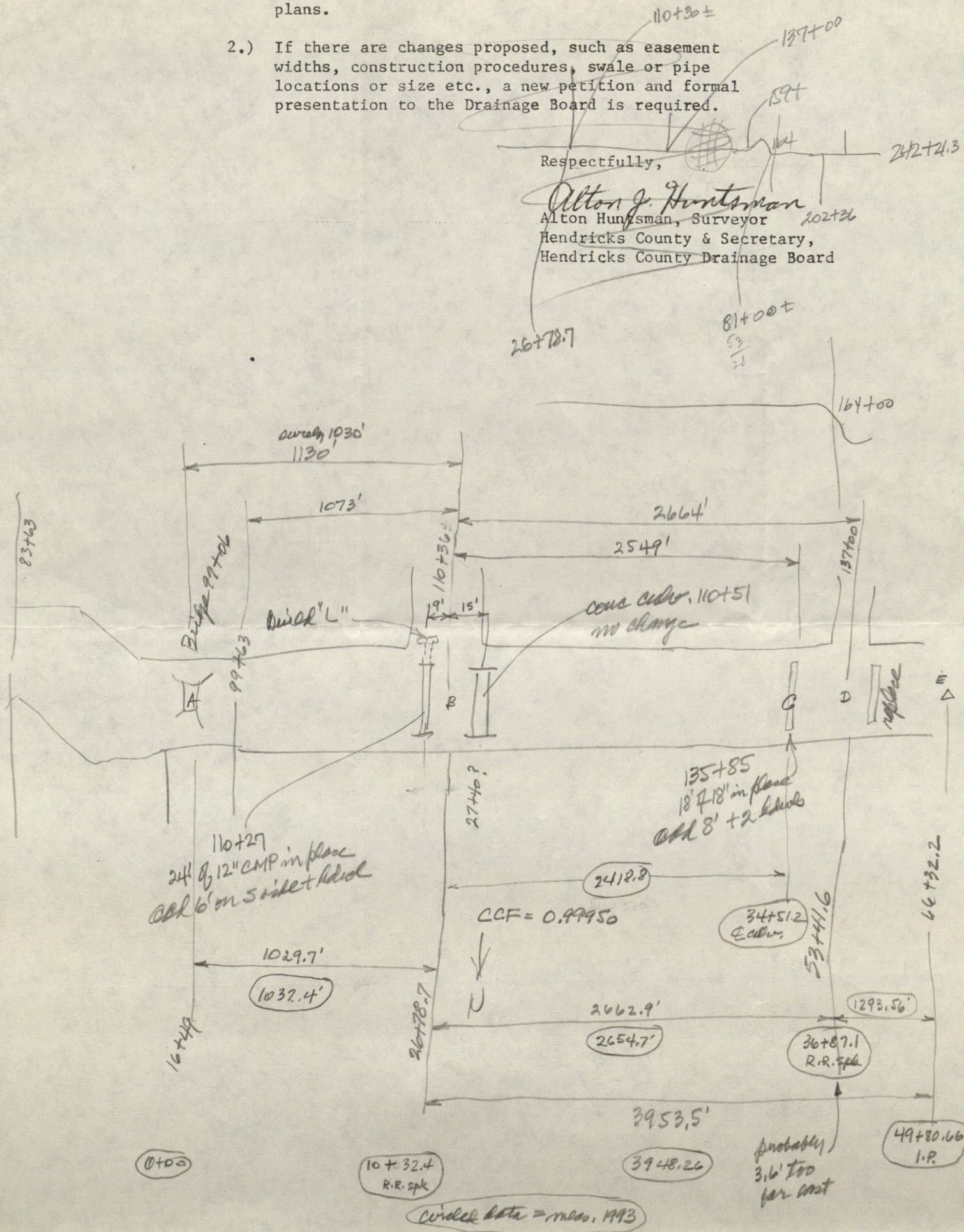
there are no changes from the originally approved plans.

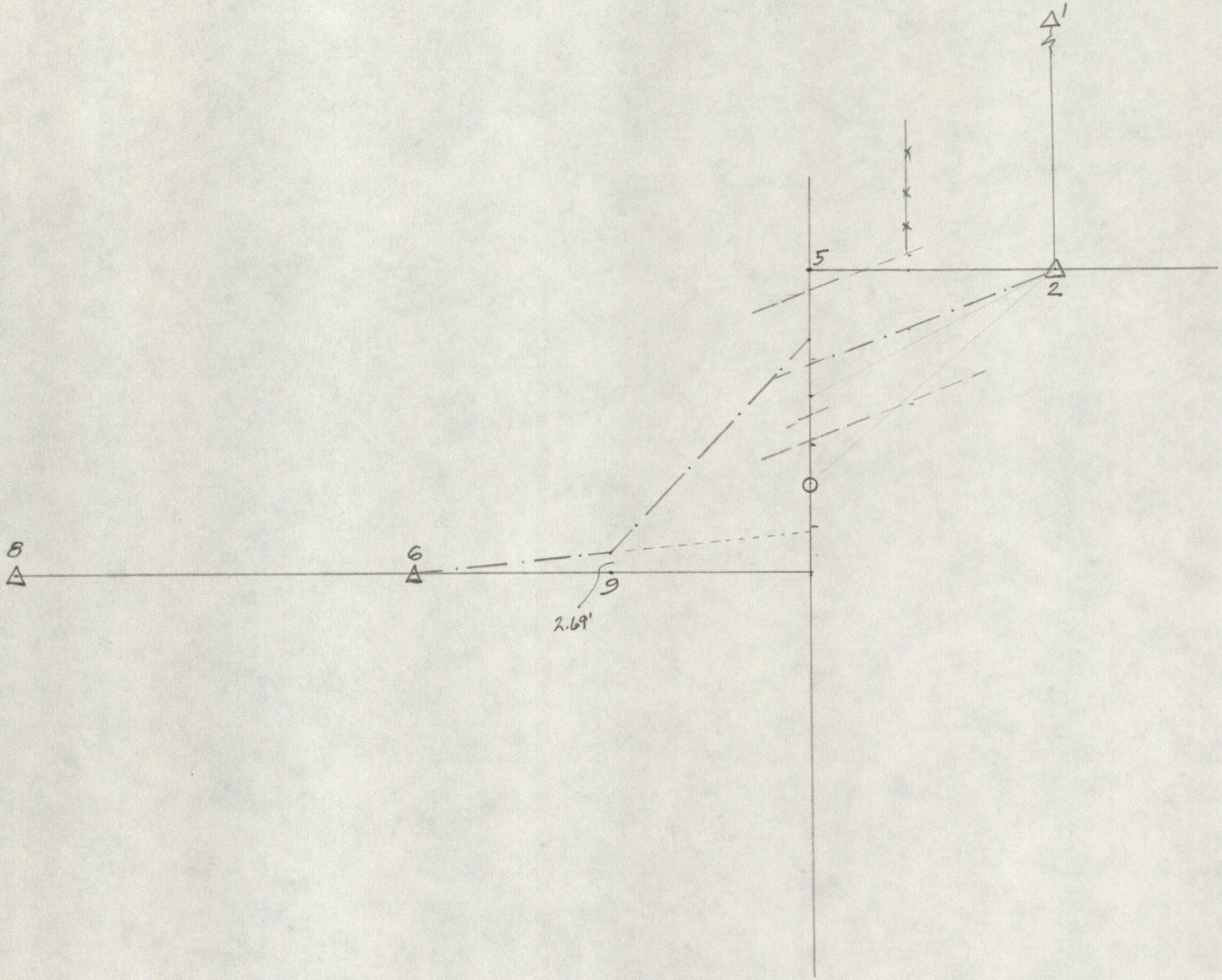
2.) If there are changes proposed, such as easement widths, construction procedures, swale or pipe locations or size etc., a new petition and formal presentation to the Drainage Board is required.

Respectfully,

Alton J. Huntsman

Alton Huntsman, Surveyor
Hendricks County & Secretary,
Hendricks County Drainage Board




1
5
2
8
6
9
2.69'

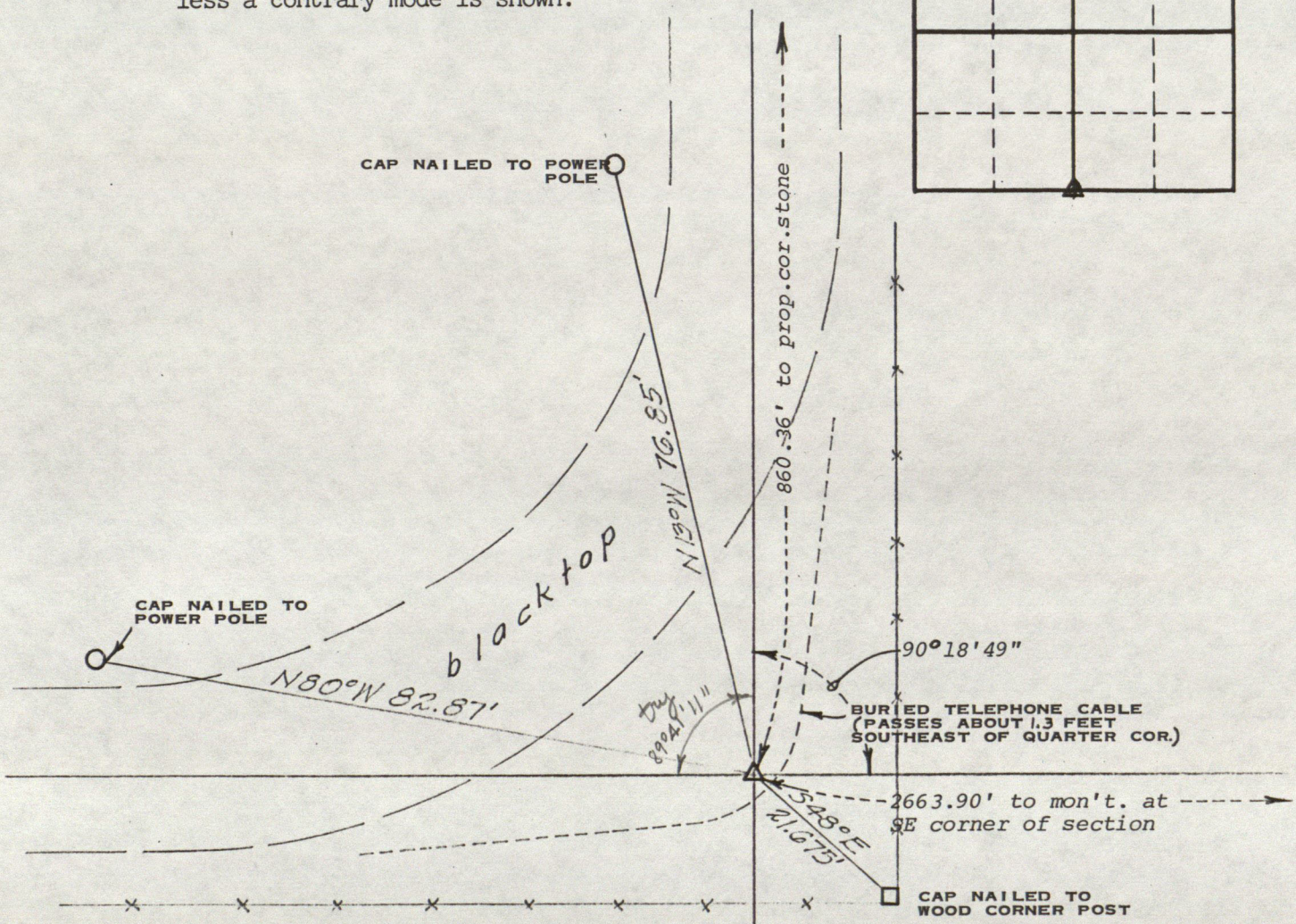
RECORD OF CORNER

LOCATION OF MONUMENT: SECTION 7, T. 15 N., R. 1 W

Found: ✓ Set: ___ Depth: 1 inch to top stone
23 inches to original stone

Description: drilled hole in stone set above the original stone

Bearings to reference objects are magnetic unless a contrary mode is shown.



STANLEY M. SHARTLE
REGISTERED
No. 3431
STATE OF
INDIANA
LAND SURVEYOR

Stanley M. Shartle

Stanley M. Shartle, P.E. & L.S.

Date: May 30, 1984

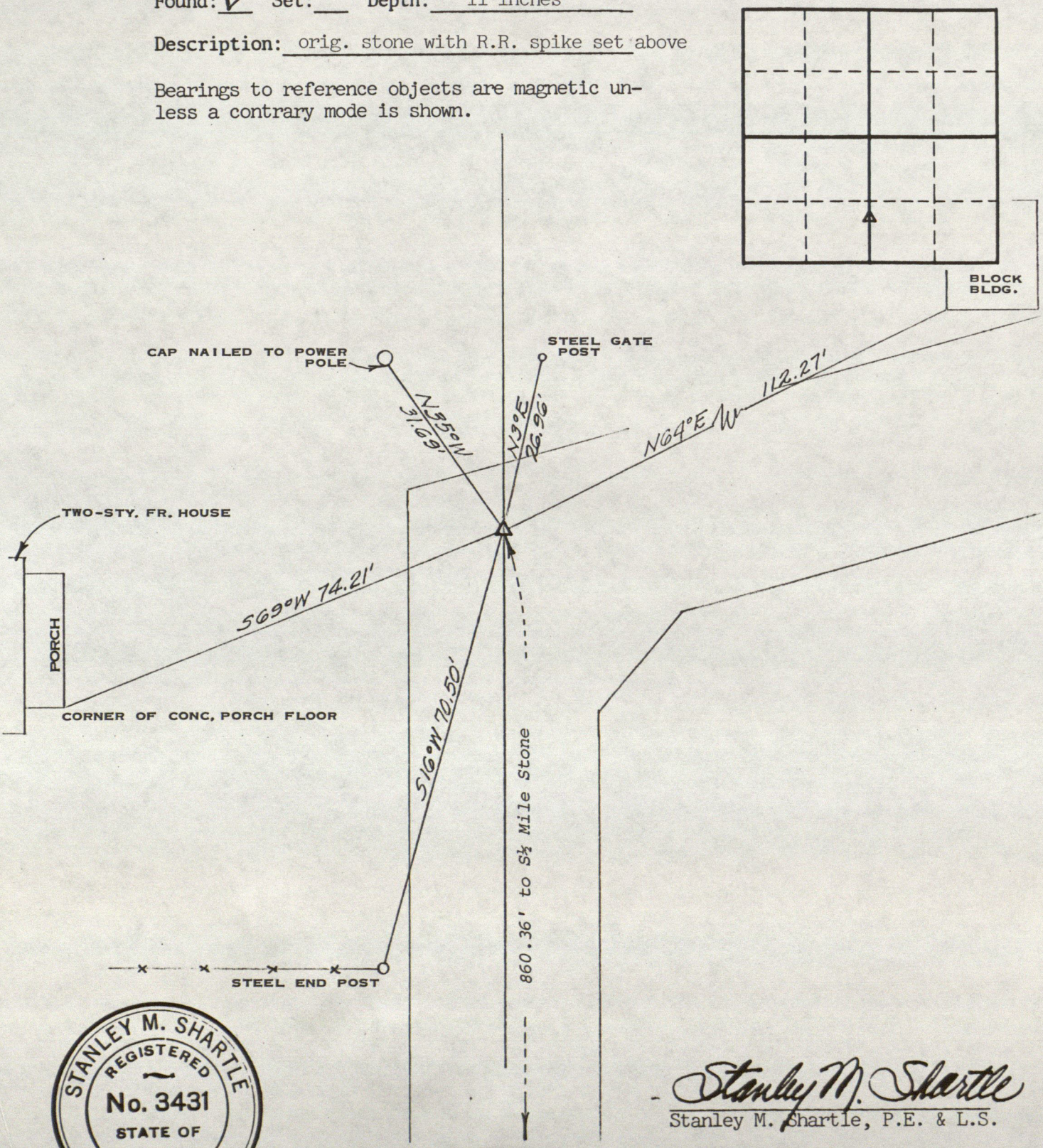
RECORD OF CORNER

LOCATION OF MONUMENT: SECTION 7, T. 15 N., R. 1 W.

Found: ✓ Set: ___ Depth: 11 inches

Description: orig. stone with R.R. spike set above

Bearings to reference objects are magnetic unless a contrary mode is shown.



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No. 3431
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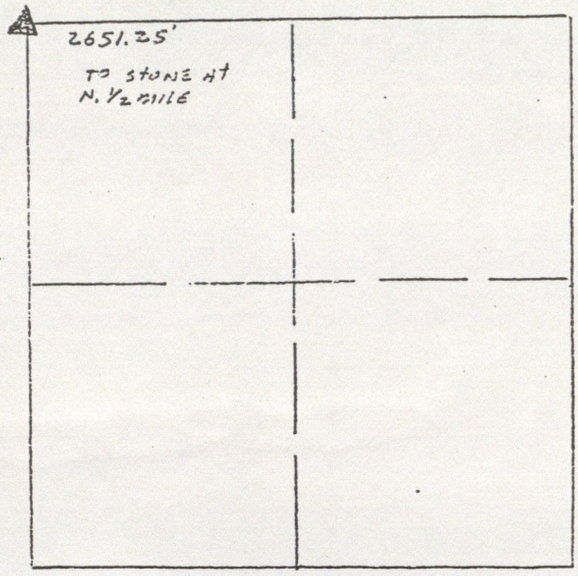
INDIANA
LAND SURVEYOR

Stanley M. Shartle

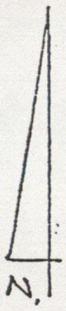
Stanley M. Shartle, P.E. & L.S.

Date: May 30, 1984

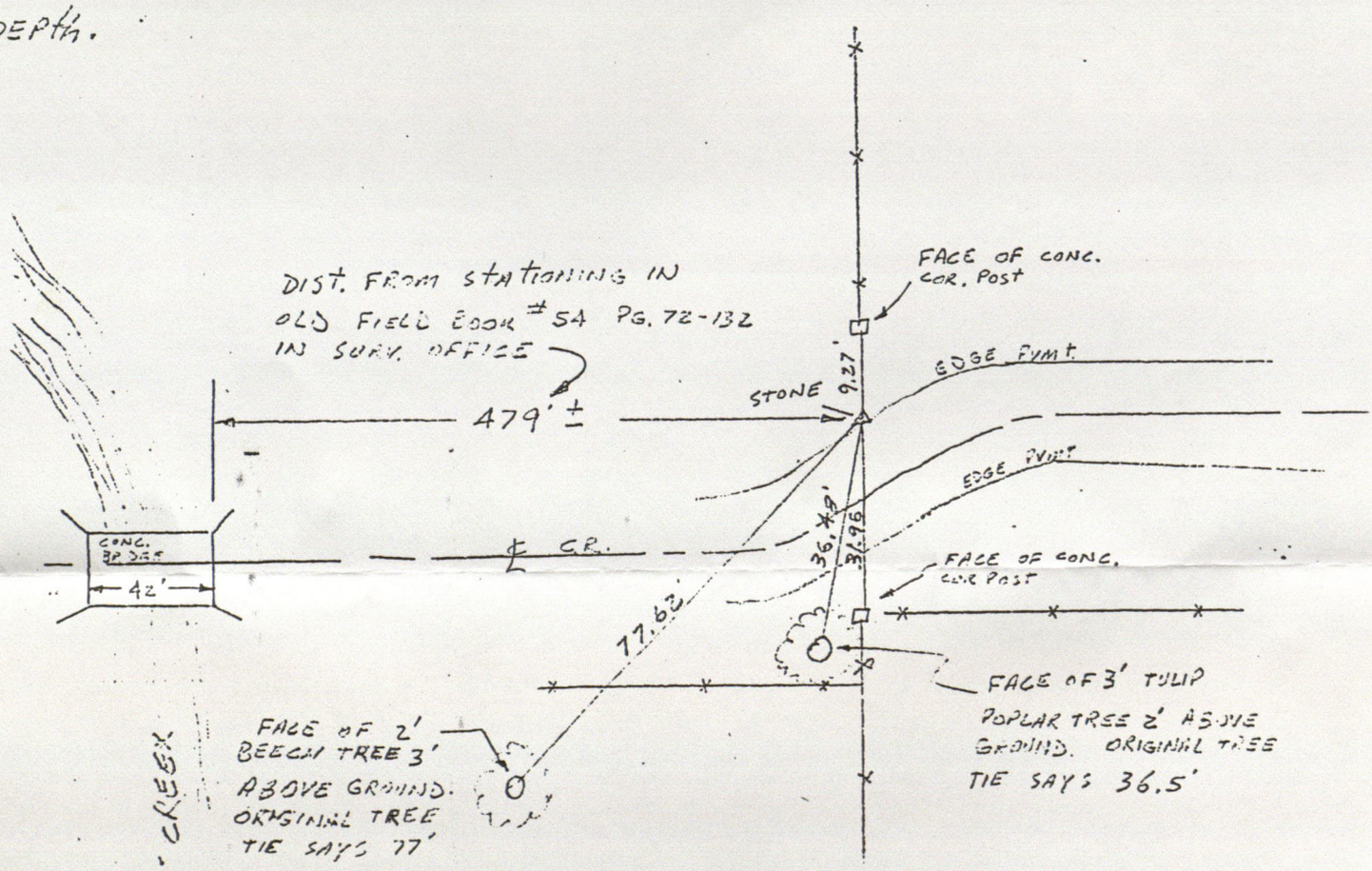
SEC. 13-T15N-R.2W.



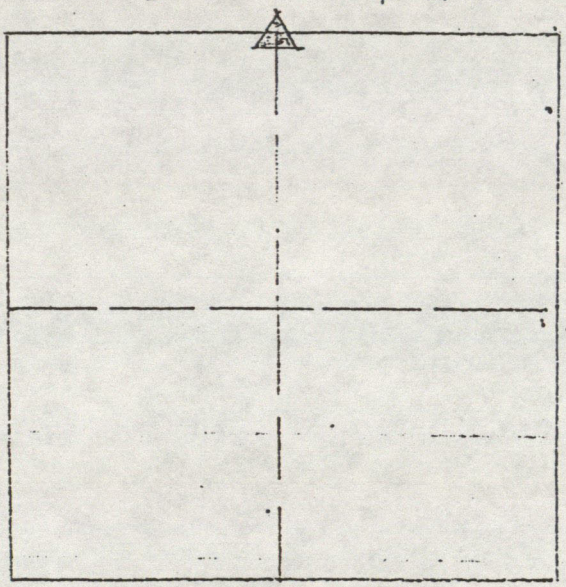
OLD TREE TIES (TWO OF WHICH ARE STILL STANDING + ARE IN GOOD COND.) USED. 4 SMALL STONE'S 5" OR 6" IN DIA. WERE FD. OVER A LARGER STONE 1'x8"x6" WITH THE RIDGE RUNNING N. & S. THE S. END OF THE RIDGE WAS USED BECAUSE IT FIT THE OLD TREE TIES BETTER, THE 4 SMALL STONES WERE REPLACED WITH A 1.7'x0.1' AXLE SHAFT. OVER THE LARGER STONE. STONE IS ABOUT 3' DEEP.
TIES MADE 5/13/80
BY - S. MAXWELL & R.J. SHAMBAUGH



<u>NOTE-</u> THERE IS A FIELD TILE RUNNING E. & W. ABOUT 1.5' S. OF THE STONE AT THE SAME DEPTH.

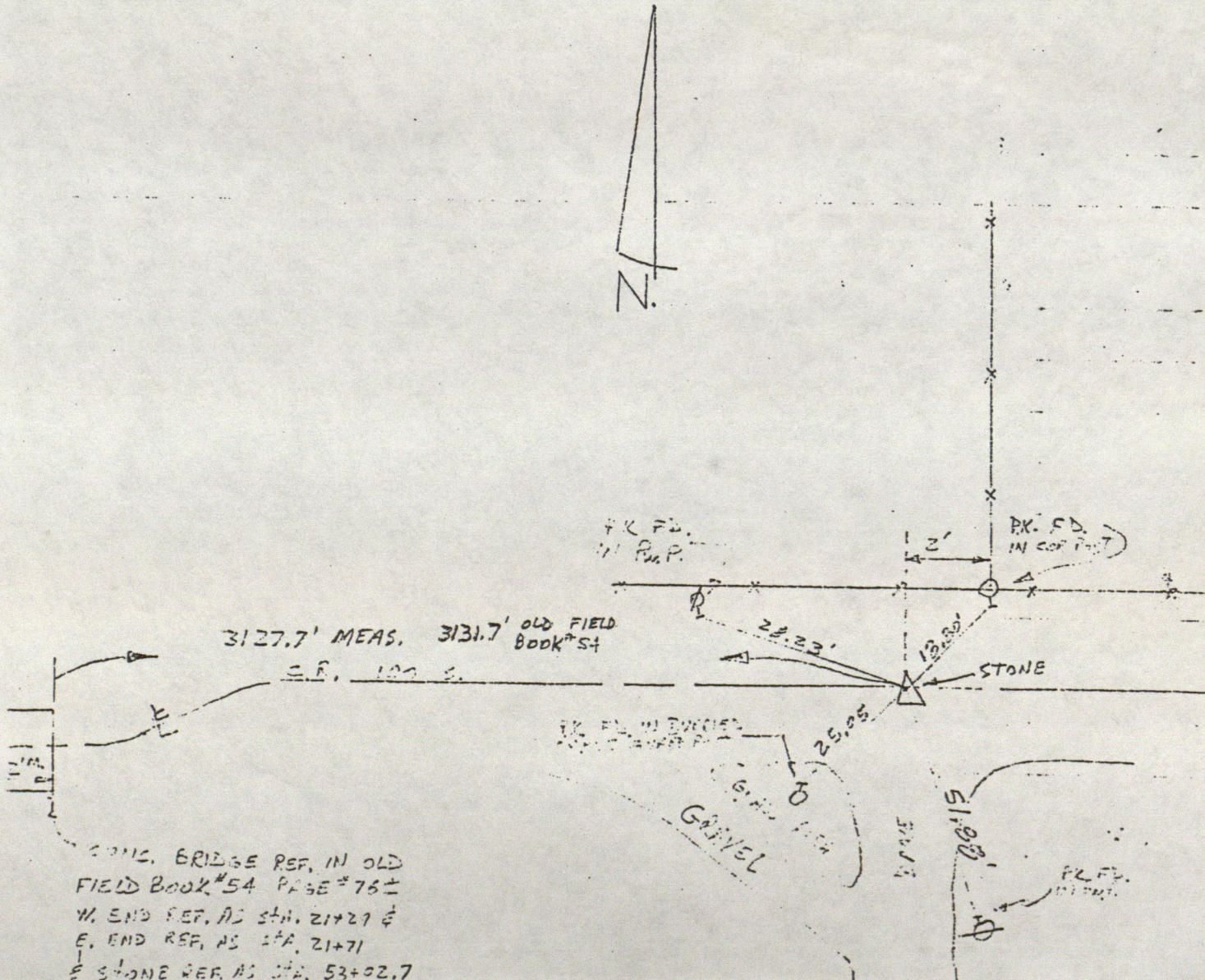


SEC. 13-T. 15 N. - R. 2W.

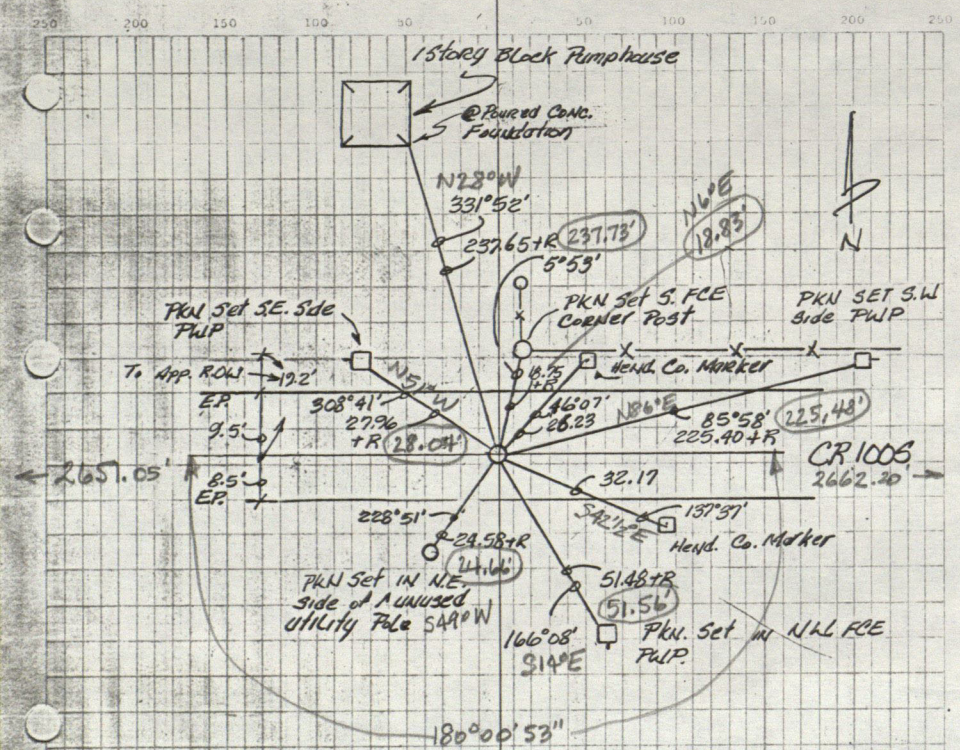


STONE FD. 8"X11"
" DEEP

HIGH Point ON STONE USED.
HORSE SHOE WAS LAID ON
the stone. & A P.K. nail was
set ON SURFACE OF RD. OVER
Point ON STONE
LES WERE MADE 4/28/80
V. S. MAXWELL & E.J. SHAMBAUGH



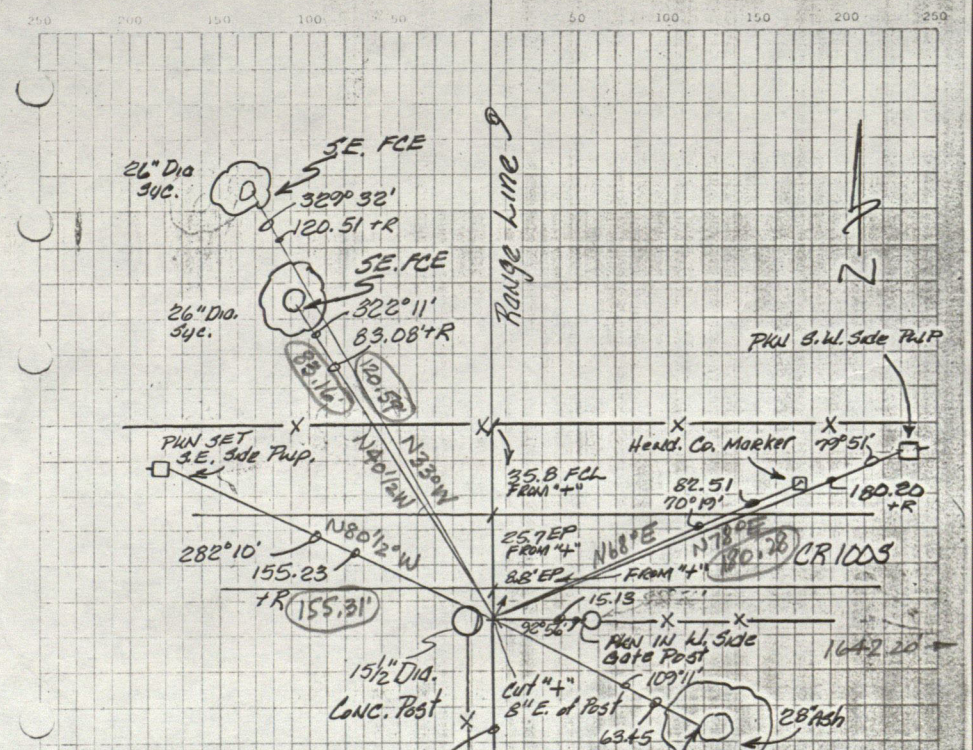
PROJ. NO. _____ LINE _____ PAGE 2 OF _____



12/1/93
G. Niemeyer
R. McElyea

N½ Mile 13-15-2W

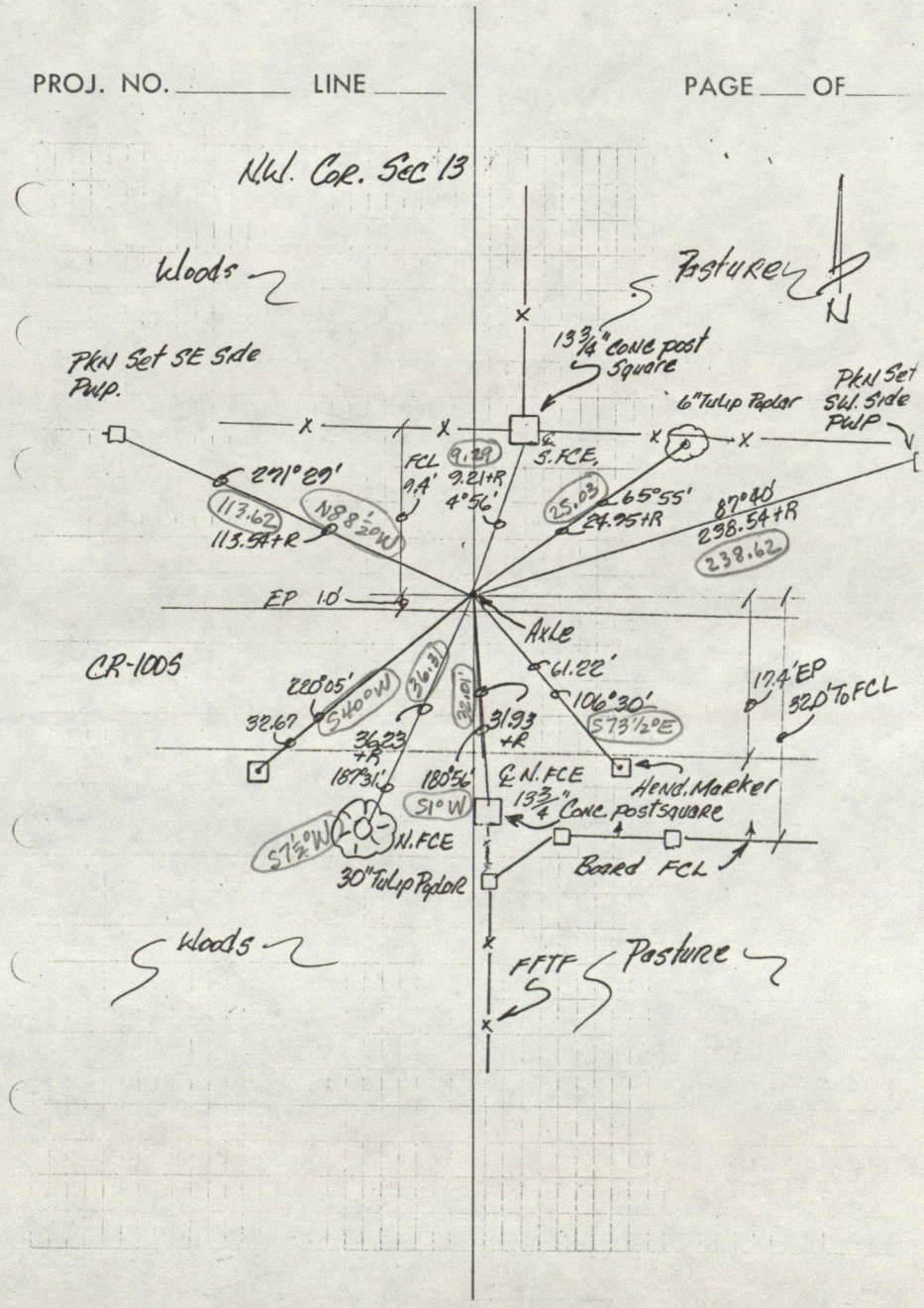
PROJ. NO. _____ LINE _____ PAGE 1 OF 2

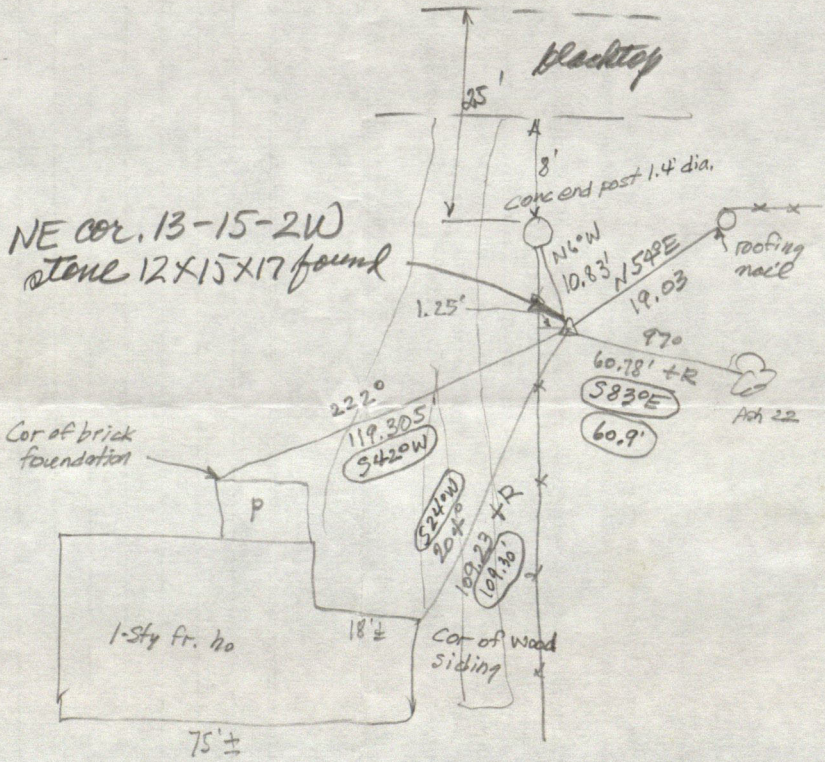


12/1/93
G. Niemeyer
R. McElyea

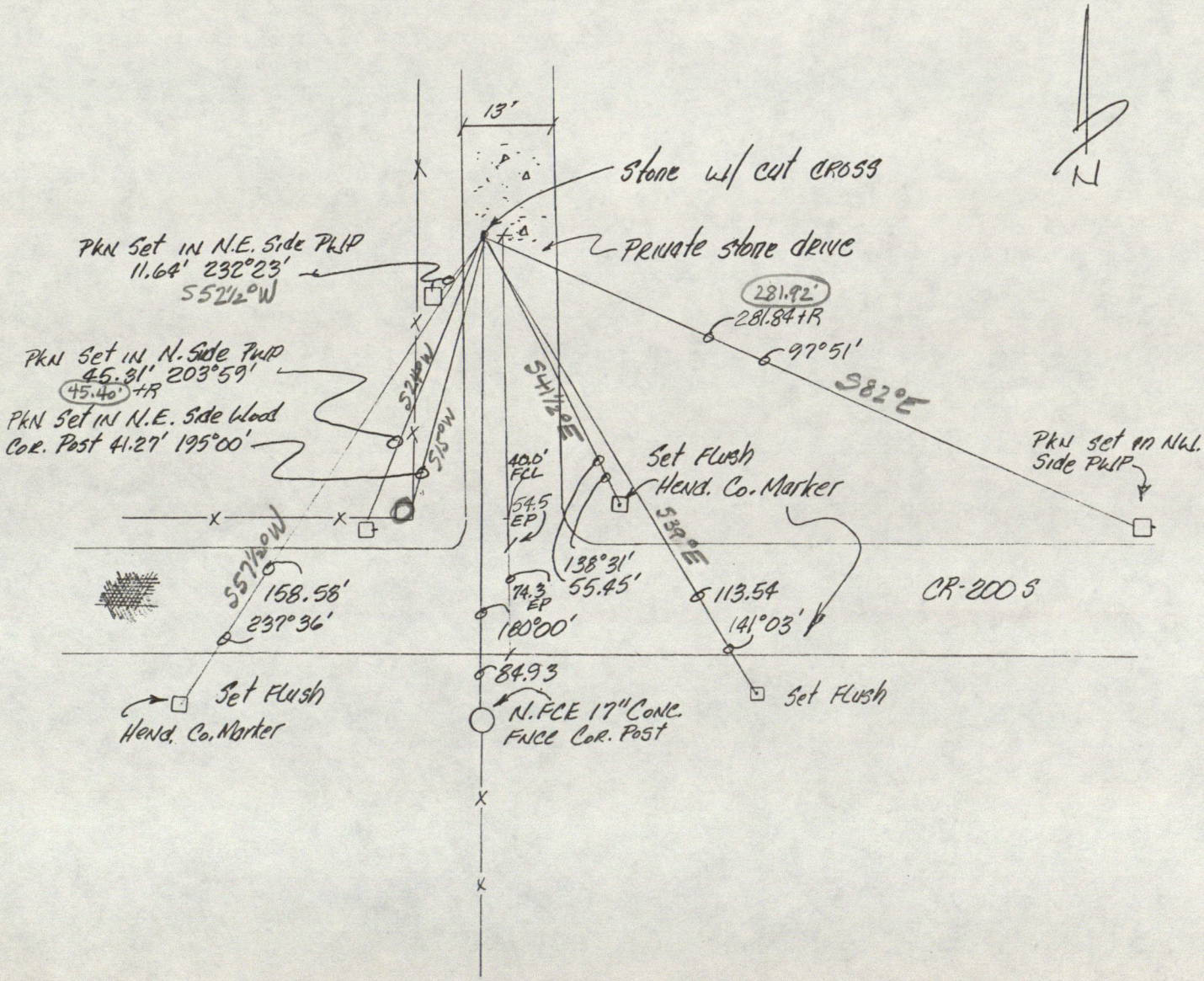
SW Cor. 7-15-1W

PROJ. NO. _____ LINE _____ PAGE ___ OF ___




blacktop
25'
8'
conc end post 1.4' dia.
NE cor. 13-15-2W
stone 12X15X17 found
N6°W
10.83'
N54°E
19.03
roofing nail
1.25'
97°
60.78' +R
S83°E
60.9'
Ash 22
222°
119.305'
S42°W
Cor of brick foundation
P
S24°W
204°
+R
109.23'
109.30'
1-Sty fr. ho
18'±
Cor of wood siding
75'±

S.E. COR SEC. 13 T15N R2W



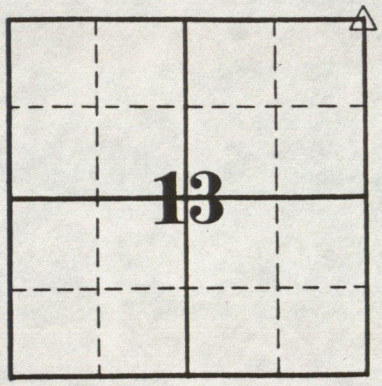
RECORD OF CORNER

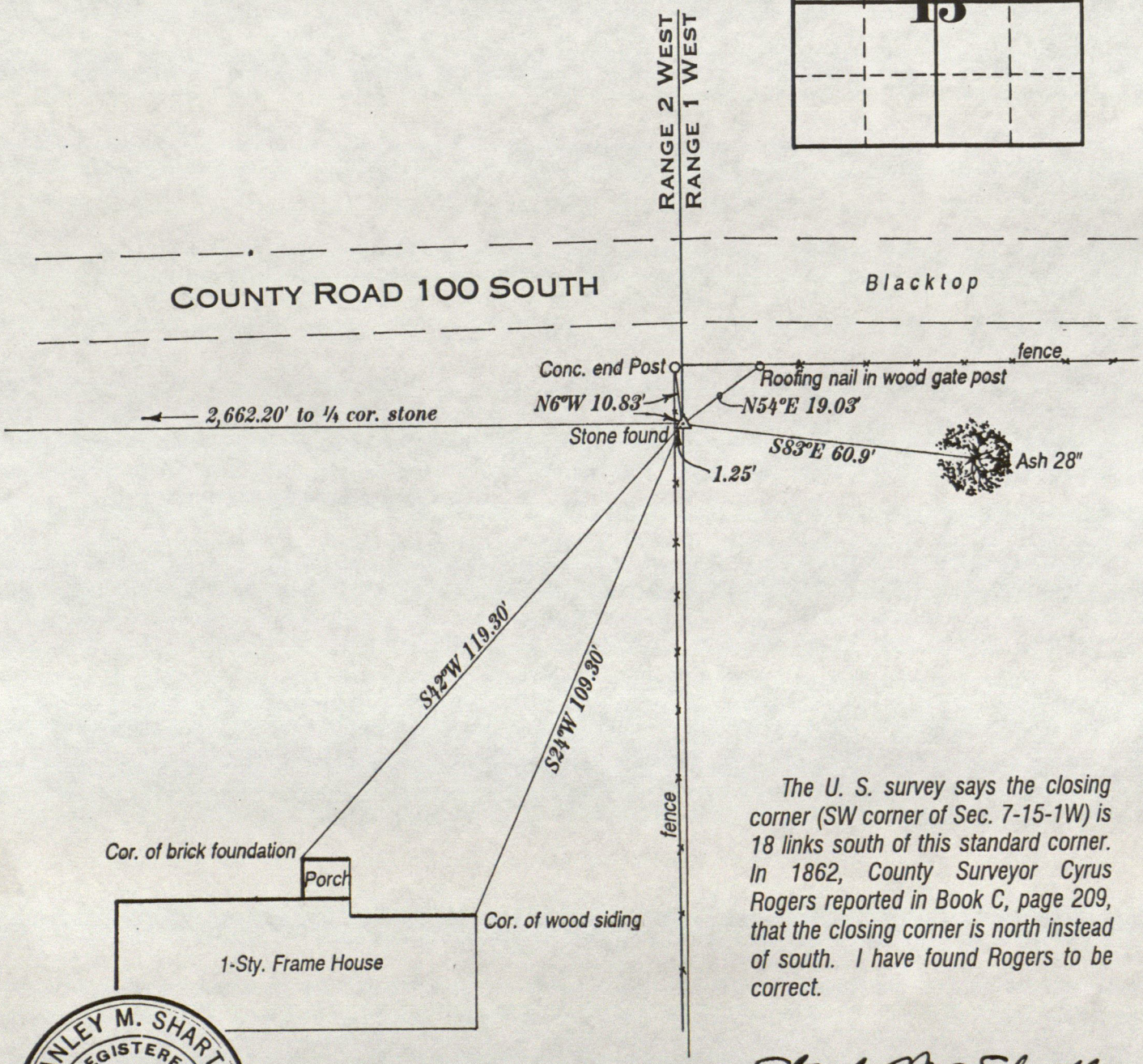
LOCATION OF MONUMENT: SECTION 13, T. 15 N., R. 2 W.

Found: ✓ Set: ___ Depth: _____

Description: _____

Bearings to reference objects are magnetic unless a contrary mode is shown.





The U. S. survey says the closing corner (SW corner of Sec. 7-15-1W) is 18 links south of this standard corner. In 1862, County Surveyor Cyrus Rogers reported in Book C, page 209, that the closing corner is north instead of south. I have found Rogers to be correct.

STANLEY M. SHARTLE
REGISTERED
No. 3431
STATE OF
INDIANA
LAND SURVEYOR

Stanley M. Shartle

Stanley M. Shartle, P.E. & L.S.

Date: December 1, 1993

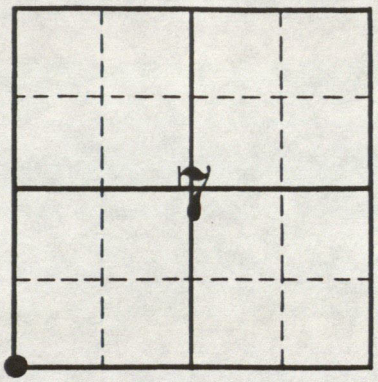
RECORD OF CORNER

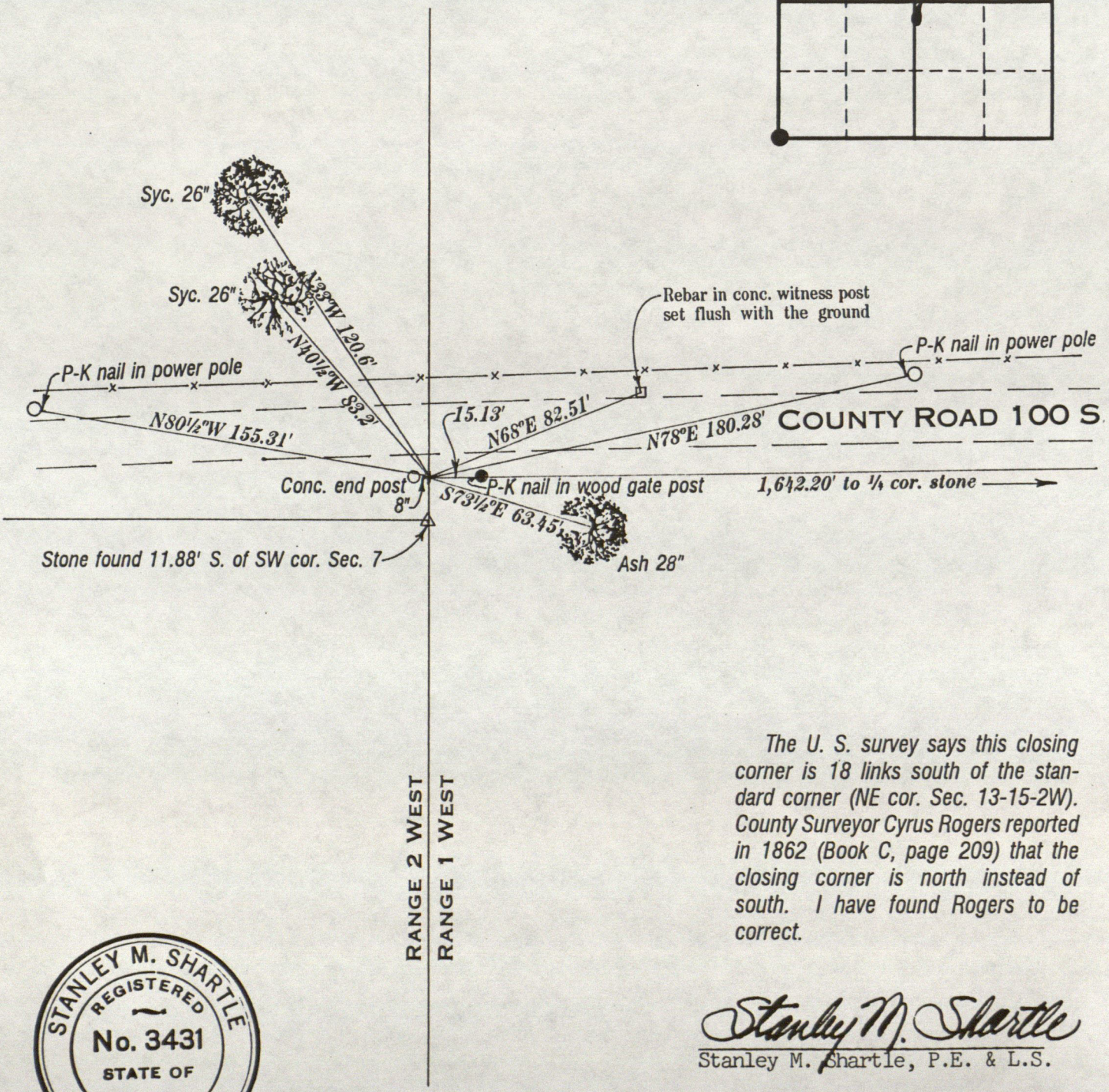
LOCATION OF MONUMENT: SECTION 7, T. 15 N., R. 1 W.

Found: ___ Set: ✓ Depth: At surface

Description: + cut on conc. footing of end post

Bearings to reference objects are magnetic unless a contrary mode is shown.





The U. S. survey says this closing corner is 18 links south of the standard corner (NE cor. Sec. 13-15-2W). County Surveyor Cyrus Rogers reported in 1862 (Book C, page 209) that the closing corner is north instead of south. I have found Rogers to be correct.

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LAND SURVEYOR

Stanley M. Shartle

Stanley M. Shartle, P.E. & L.S.

Date: December 1, 1993

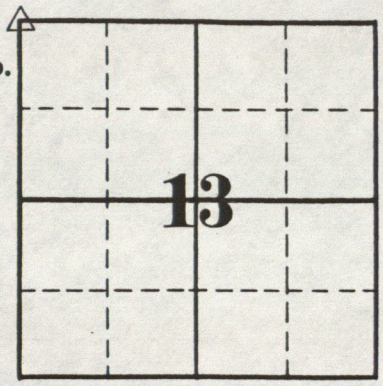
RECORD OF CORNER

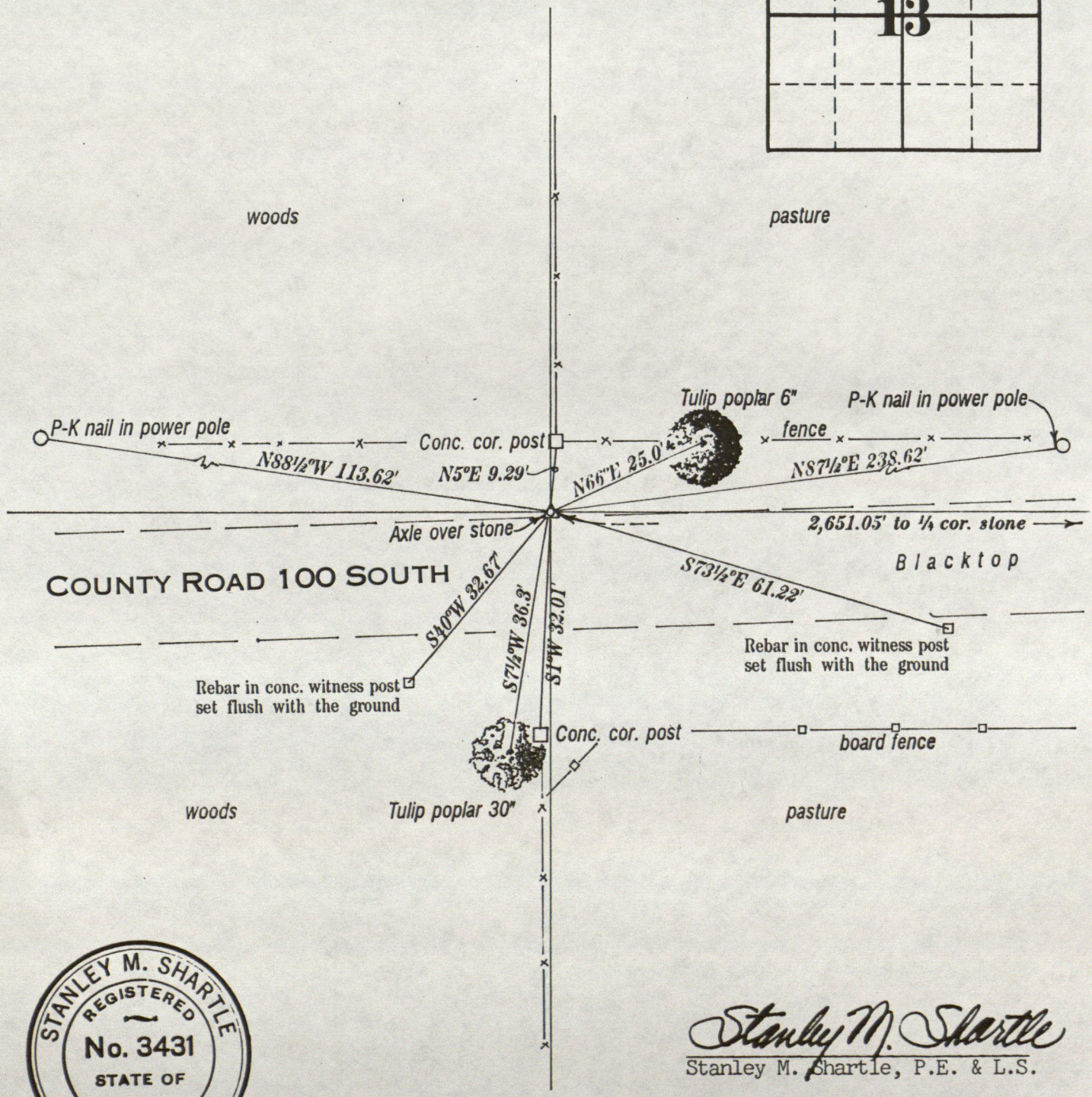
LOCATION OF MONUMENT: SECTION 13, T. 15 N., R. 2 W.

Found: ✓ Set: ___ Depth: 8 inches

Description: 1¼"x20" axle set over orig. stone 3'± deep.

Bearings to reference objects are magnetic unless a contrary mode is shown.





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No. 3431
STATE OF
INDIANA
LAND SURVEYOR

Stanley M. Shartle

Stanley M. Shartle, P.E. & L.S.

Date: December 2, 1993

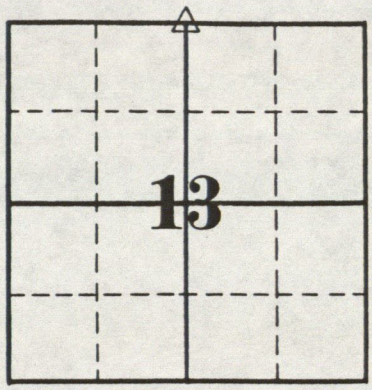
RECORD OF CORNER

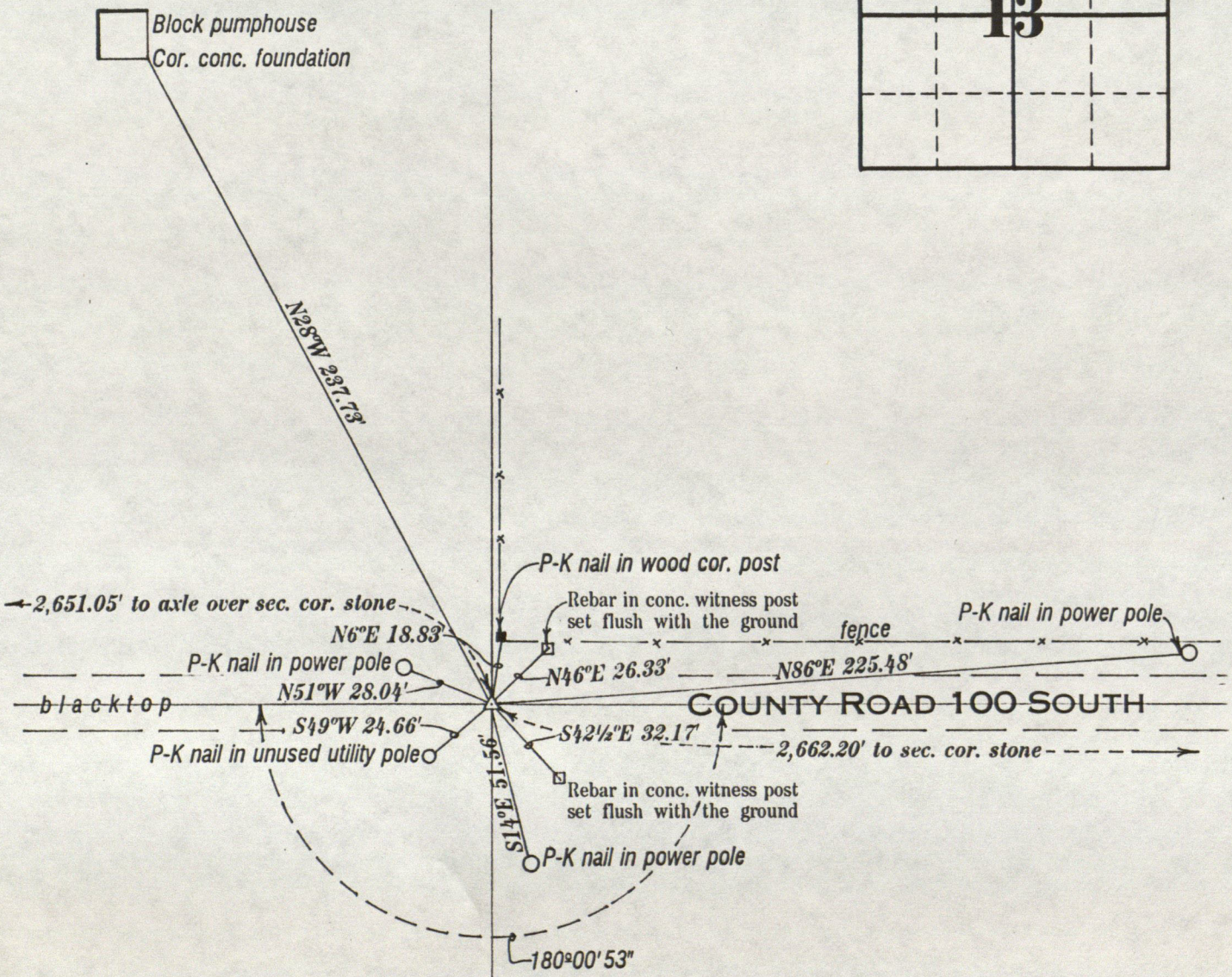
LOCATION OF MONUMENT: SECTION 13, T. 15 N., R. 2 W.

Found: ✓ Set: ___ Depth: 4 inches

Description: Shallow drill hole in stone

Bearings to reference objects are magnetic unless a contrary mode is shown.





STANLEY M. SHARTLE
REGISTERED
No. 3431
STATE OF
INDIANA
LAND SURVEYOR

Stanley M. Shartle

Stanley M. Shartle, P.E. & L.S.

Date: December 1, 1993

STANLEY M. SHARTLE

REGISTERED PROFESSIONAL ENGINEER
REGISTERED LAND SURVEYOR
19 KINGS COURT
DANVILLE, INDIANA 46122
TELEPHONE 317-272-7912

JOB Hendricks Co. Corner Stones DATE Apr. 4, 1994

DATE 1993	NUMBER OF HOURS WORKED: 1 Office Work One Man $36 per hr.	2 Other Office Work $40 per hr.	3 Field Work One Man $45 per hr.	4 Court Appearance $50 per hr.	5 Cobra Digger $10 per hr.	BRIEF DESCRIPTION OF SERVICES RENDERED; SEE COLUMN DESCRIPTIONS BELOW FOR DETAILS
Dec. 13			1.0			S1/4 Cor. 13-15-2W
" 20			1.5			E1/4 " " " "
" 21	2.0					S1/4 " " " " plat + calcs.
" 22	2.1					E1/4 " " " " & calcs.
" 27	1.9					" " " " " "
" 27	2.0					W1/2 " 18-15-1W & calcs.
—1994—						
Mar. 3	1.0					Cen. Sec. 13-15-2W calcs.
" 11	3.7					SE Cor. 32-16-2E & NE Cor. 5-15-2E
" 31	0.3					Calcs. " " "
Apr. 1	1.3					Plat for Cen. Sec. 13-15-2W
Mar. 15	1.0					" " W1/4 Cor. " " "
TOTALS	15.3 hrs. $550.80	hrs. $	2.5 hrs. $112.50	hrs. $	hrs. $	TOTAL $ 663.30

Rates effective January 1, 1993; subject to change without notice. Federal identifying number for Form 1099-Misc.: 303-26-3478.

The above items typically include:

COLUMN 1: Work performed by one professional* in the Land Surveyor's own office such as pre-survey research, analysis of title descriptions for subject and adjoining properties, field note reduction, computations, drawing plat (if any), writing and typing descriptions, printing, etc. In proposed subdivisions, making development plan, preparing soils report, final plat, application, and other special work is included. Costs are for labor, computer use, long distance calls, printing, etc.

COLUMN 2: Work performed by one professional*: pre-survey work at courthouse, State Office Building, conferences with attorneys, other surveyors, and Plan Commission, but excluding court appearances. Costs include labor, to-and-from travel time, mileage, photocopies of records, etc.

COLUMN 3: Work performed by one professional* at the site; reconnaissance, preliminary search for landmarks, planning the survey. In proposed subdivisions: street and drainage planning, soils investigation. Costs are for labor, mileage, and equipment use. Time to and from job is charged for.

COLUMN 4: Appearance in court at the request of the client or client's attorney and is charged for whether or not testimony is given. Time to and from court is charged.

COLUMN 5: Operating time only; no charge when machine at job site is not used. Payment for operator is included in the price per hour for field work.

*Professional is a Registered Land Surveyor and Registered Professional Engineer.

STANLEY M. SHARTLE

REGISTERED PROFESSIONAL ENGINEER
REGISTERED LAND SURVEYOR
19 KINGS COURT
DANVILLE, INDIANA 46122
TELEPHONE 317-272-7912

JOB Hend. Co. Cor. Stones DATE Dec. 10, 1993

DATE 1993	NUMBER OF HOURS WORKED 1 Office Work One Man $36 per hr.	2 Other Office Work $40 per hr.	3 Field Work One Man $45 per hr.	4 Court Appearance $50 per hr.	5 Cobra Digger $10 per hr.	BRIEF DESCRIPTION OF SERVICES RENDERED; SEE COLUMN DESCRIPTIONS BELOW FOR DETAILS
Nov. 17	0.9					NW Cor. 20-15-1E research
" 17	2.8					NE Cor. & cen. 13-15-2W "
" 18			0.5			NW Cor. 20-15-1E
" 22	2.0		2.5			NE " 13-15-2W
" 23			1.0			NW " 20-15-1E
" 23			6.0			13-15-2W Corners
" 30	2.5					Plat for NW Cor. 20-15-1E & NE 13-15-2W
Dec. 1	1.2					" " SW cor. 7-15-1W
" 1	1.3					" " N¼ cor. 13-15-2W
TOTALS	10.7 hrs. $385.20	hrs. $	10.0 hrs. $450.00	hrs. $	hrs. $	TOTAL $ 835.20

Rates effective January 1, 1993; subject to change without notice. Federal identifying number for Form 1099-Misc.: 303-26-3478.

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*Professional is a Registered Land Surveyor and Registered Professional Engineer.