Pt. NE¼ 2-14-1W BOWMAN EST.
(0241WA)

1380

Mike Bowman 839-2982
Jerry " 539-4873

Before May 30

200
125 plat

PA. NE¼ 2-14-1W BOWMAN EST.
(024WA)

137/353 Geller to Chas. Hadley Pt. SE¼ & pt. S½NE¼ 35-15-1W 456.06

Beg. at E¼ mi. stone; N 6.91 ch. to ℄ RW T.H.&I. RR. Co.; SWLY on ℄ 28.87 ch. to ℄ NE¼; cont. SWLY on ℄ 3.56 ch. to ℄ N. Belleville; S21°E on ℄ 3.63 ch.; S69°W 10.12 ch. to W SE¼; S on W 33.33 ch. to ℄ Sec. 35; E 40.11 ch. to SE cor. sec.; N on sec. line 40.30 ch. to beg. 166.78 ac. ±.

* EXC. Beg. at point on ℄ RR orig. RW at ℄ sec. 35; 50' SELY from & radially to orig ℄ R.R.; S'wardly on ℄ sec. 74.7' to point 362.3' N, mea. on ℄, from SE cor. NE¼; W'wardly at an angle of 104°24' from last line 2111.2' to point in Leonidas Todd's line 138.9' S'wardly ⊥ ℄; N'wardly by last line at angle of 91°42' from last course 68.9' to ℄ RR 70' SLY ⊥ ℄; ELY ⊥ last course = ℄ 770.5'; NLY at angle of 105°36' from last course 20.8' to sec. 50' SLY ⊥ ℄; ELY = ℄ 1367.1' to beg.

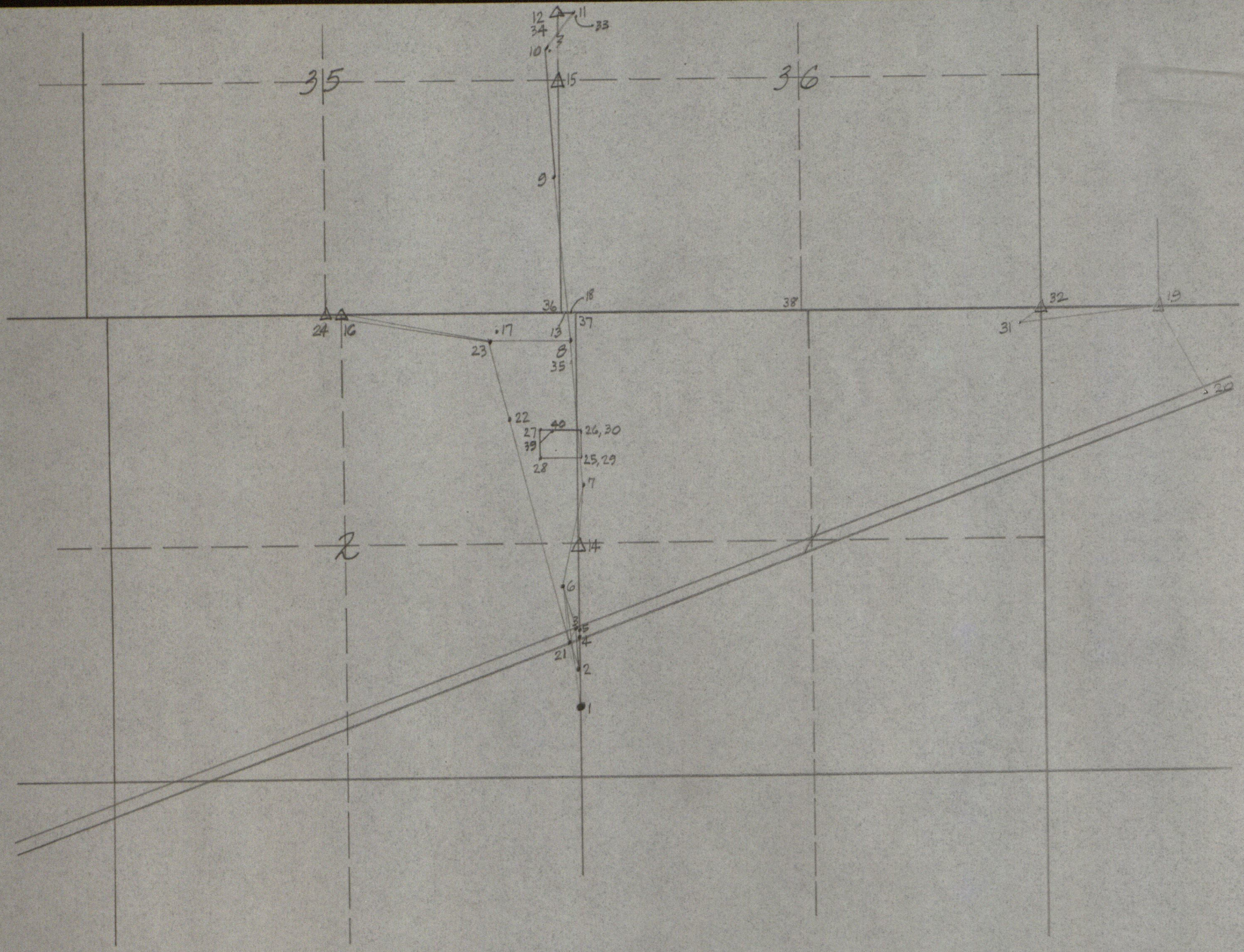
216/63 Alekas to Lepm 1 Feb. 1971 Beg. at SE cor. 35; N 731.7' to P.O.B.; N 125'; W 160'; S 125', E 160' to beg. 0.46 ac.

227/31 Bowman to Daugherty 27 Apr. 1973 Pt. SE¼ & pt. S½NE¼ 35; Beg. at NE cor. SE¼ (an I.P. set in C.R. 200E & 2659.8' N of SE cor. which is marked by a stone); S on ℄ 585.54' to a nail (wit. by I.P. with marker 25' W); W ⊥ to sec. line 850.00' to I.P. with marker; N = ℄ 748.78' to I.P. in ℄ RR; N75°24'40"E on ℄ 878.32' to ℄ sec. (a nail wit. by I.P. S75°24'40"W 25.83'); S on ℄ 384.46' to beg. 16.77 ac.

* This first appeared in 99/56 dated 19 Feb. 1906

78/425 to Hammond (detailed desc. of Belleville out lots).

258/386 to Jerry Bowman S 490' of SE¼ 35-15-1W. 1979


35
36
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21
2
1

Bowman Est. in 2-14-1W

1 I.P. on sec. line at NE cor. O.L. 11 Bellville set by me 27 June 1946 700.37' N from cor.
2 temp. point (nail & cap)
3 " " (" " ")
4 notch on sec. line in S. curb U.S. 40 cut by me 23 March 1950
5 " " " " N. " " " " " " " " "
6 temp. point (nail & cap)
7 " " (" " ")
8 " " (" " ")
9 " " (" " ")
10 " " (" " ")
11 " " (unmarked)
12 stone at NE cor. 35-15-1W
13 temp point marked by stone loose on the ground
14 E½ Mile Stone 2-14-1W
15 " " " 35-15-1W
16 N½ " " 2-14-1W
17 temp. point (unmarked)
18 " " (")
19 stone
20 R.R. spk. — Point 170 of Carlisle survey
21 nail & cap
22 temp. point in wheat field
23 " " " corn "
24 S½ Mile stone 35-15-1W
25 temp. point for approx. SE cor. surveyed parcel
26 " " " " NE " " "
27 I.P. flush at NW cor. surveyed parcel
28 I.P. " " SW " " "
29 final SE cor. surveyed parcel
30 " NE " " "
31 temp. point (unmarked) — Point 145 of Carlisle survey
32 + on stone at SE cor. 36-15-1W — Point 179 " "

33 temp. point (unmarked) near 11
34 adjusted coords. of point 12 "
35 closure on point 8
36 SE cor. 35-15-1W by single proportionate meas. along latitudinal curve
37 NE cor. 2-14-1W 98 links (64.68') E of 36 on latitudinal curve
38 S²ML 36-15-1W by single prop. meas. along curve (unmarked)
39 S. cor. of proposed easement
40 E. " " " "
41 point 136 of the Carlisle survey
42 " 137 " " "
43 " 140 " " "
44 " 142 " " "
45 " 143 " " "
46 " 144 " " "

Here starts the Jerry Bowman survey 1990
(File 3551WD in 35-15-1W)

47 SE cor. Lynn(?) parcel
48 NE " " "
49 NW " " "
50 SW " " "
51 NW " parcel to be retracted by Jerry Bowman
52 SW " " " " " " " "

AZIMUTHS

	1	***
1	0.000	***
	0.000	***
	2	***
	4	***
	340.0000	***
	514.857	***
2	483.807	***
	-176.091	***
	324.1301	***
	848.992	***
6	1172.541	***
	-672.512	***
	0.3354	***
	965.157	***
7	2137.651	***
	-662.995	***
	162.2548	***
	283.753	***
14	1867.135	***
	-577.338	***
	2	***
	5	***
1	0.000	***
	0.000	***
14-1	162.4904	***
	1954.358	***

Rotate 17° 10' 56" CW.

	1	***
1	0.000	***
	0.000	***
	2	***
	4	***
	357.1056	***
	514.857	***
2	514.235	***
	-25.310	***
	341.2357	***
	848.992	***
6	1318.878	***
	-296.116	***
	17.4450	***
	965.157	***
7	2238.104	***
	-1.918	***
	179.3644	***
	283.753	***
14	1954.358	***
	~~0.002~~ 0.000	***
	2	***
	5	***
1	0.000	***
	0.000	***
14-1	180.0000	***
	1954.358	***

P 6

at 7	6	197.44500	***
	R.O.	198.2214	***
	14	179.3644	***
	8	359.2802	***
at 8	7	179.28020	***
	R.O.	358.3715	***
	9	358.1208	***
	13	353.3352	***
at 9	8	178.12080	***
	R.O.	186.4302	***
	15	359.4401	***
	10	359.4350	***
at 10	9	179.43500	***
	11	0.2860	***
at 11	10	180.29000	***
	12	268.1547	***

P 1

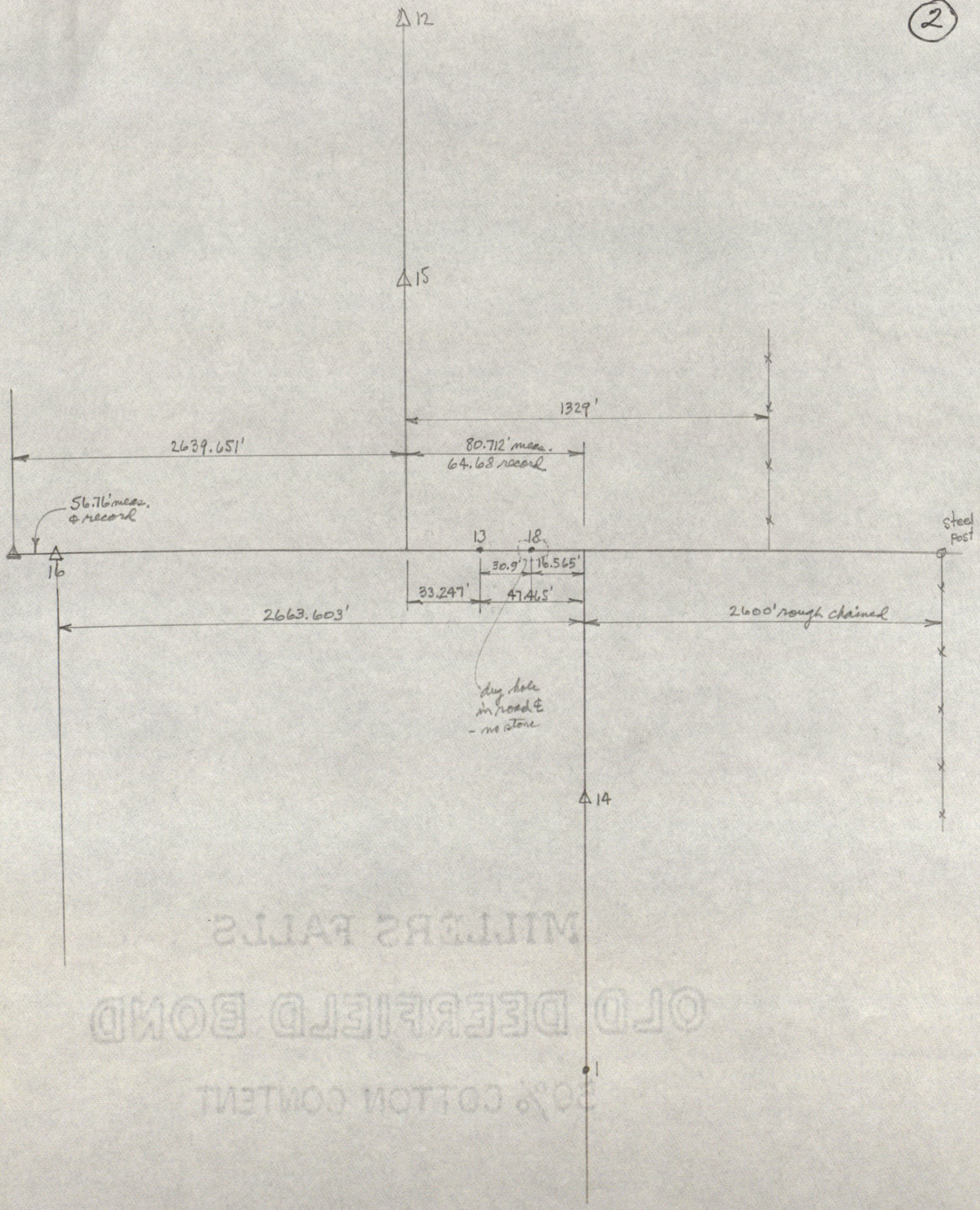
	1	***
7	2238.104	***
	-1.918	***
	2	***
	4	***
	359.2802	***
	1834.784	***
8	4072.809	***
	-18.979	***
	3	***
	4	***
	353.3352	***
	254.147	***
13	4325.354	***
	-47.465	***
	2	***
	4	***
	358.1208	***
	1728.685	***
9	5800.643	***
	-73.211	***
	3	***
	4	***
	359.4401	***
	1183.472	***
15	6984.102	***
	-78.714	***
	2	***
	4	***
	359.4350	***
	2278.035	***
10	8078.653	***
	-83.924	***

	0.2900	***
	1567.376	***
11	9645.973	***
	-70.702	***
	268.1547	***
	6.010	***
12	9645.791	***
	-76.709	***
	2	***
	5	***
15	6984.102	***
	-78.714	***
12-15	180.0235	***
	2661.689	***

P 2

	1	***
15	6984.102	***
	-78.714	***
	180.0235	***
	90.0000	***
13	4325.354	***
	-47.465	***
	2658.749	***
	33.247	***
	4325.354	***
	-80.712	***
	1	***
14	1954.358	***
	0.000	***
	0.0000	***
	270.0000	***
13	4325.354	***
	-47.465	***
	2370.996	***
	47.465	***
	4325.354	***
	0.000	***

	1	***
16	0.000	***
	0.000	***
	2	***
	4	***
	90.0000	***
	1476.025	***
17	0.000	***
	1476.025	***
	82.3619	***
	1176.463	***
18	151.416	***
	2642.703	***
	2	***
	5	***
	0.000	***
	0.000	***
18-16	266.4315	***
	2647.038	***


12
15
1329'
2639.651'
80.712' meas.
64.68 record
56.76' meas.
& record
13
18
Steel Post
16
30.9'
16.565'
33.247'
47.415'
2663.603'
2600' rough chained
dug hole
in road ℄
- no stone
14
1

Decided to traverse from the stone at SE cor. 36-15-14W and use my Carterburg traverse network bearing system and coordinate origin. Computations start over again.

BELOW THIS LINE E² MILE STONE 36-15-14W = 20,000.000, 20,000.000 and ⅟ NE¼ 36 = 0°00'00" ag.

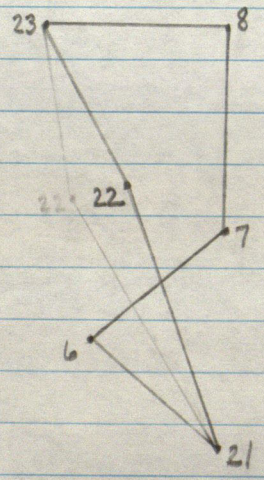
Point 52 on the Trivett system = 12 on the Bowman system and has no equivalent number on the Carterburg system. But the coords. of 12 on the Carterburg system as found on the Trivett survey =

22,659.685, 14,699.930.
[22,659.724, 14,699.941]²

Also, 4 on Trivett = 15 on Bowman =

19,997.953, 14,707.881.
[19,997.992, 14,707.871]²

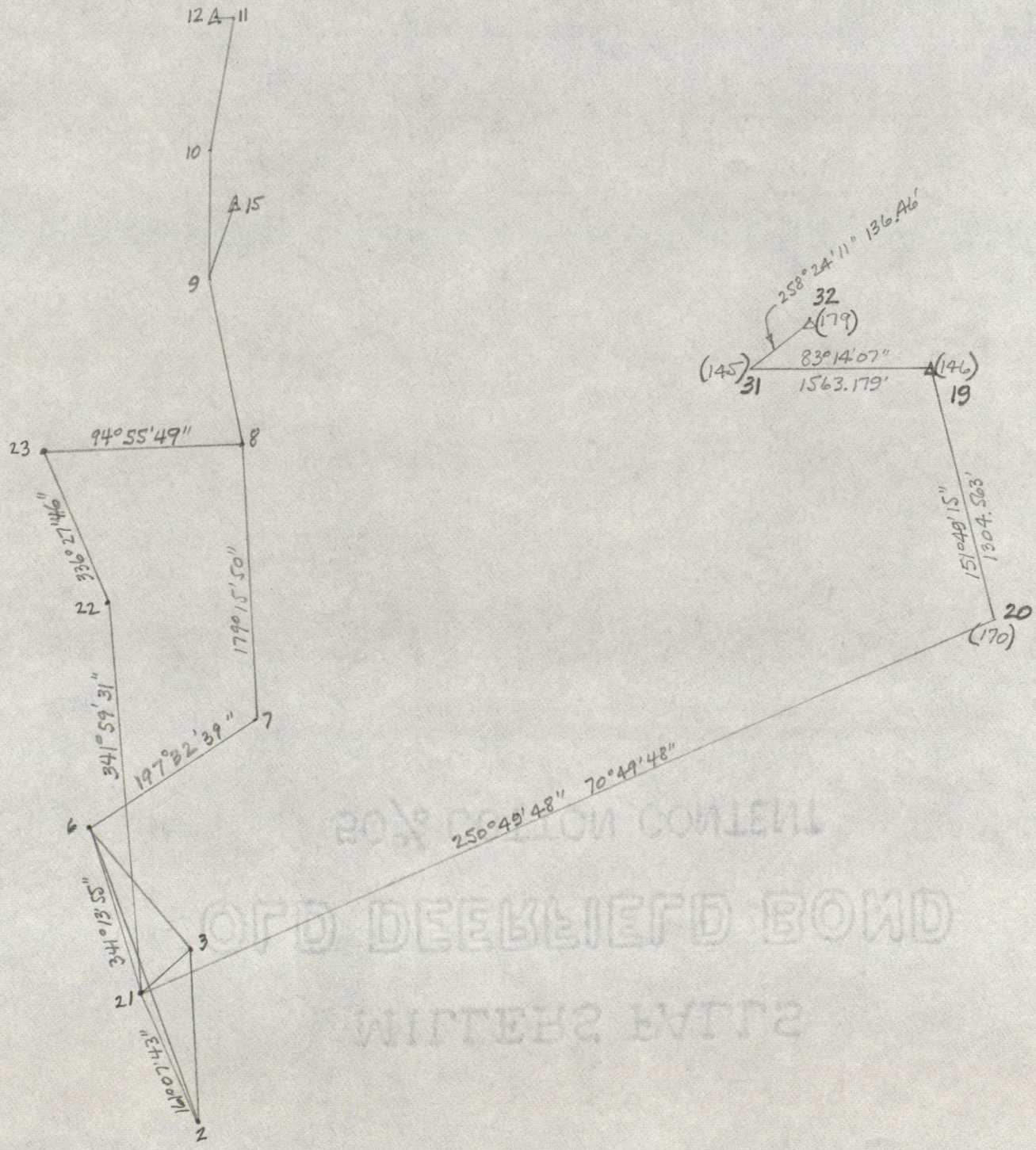
12 − 15 =	179°49'44"	2661.744'	(Trivett survey) ← USE
12 − 15 =	180 02 35*	2661.689'	(Bowman ")
diff. =	0° 12' 51"	0.055'	



21	359 14 24		359 14 24
22	185 31 46	−1"	185 31 45
23	61 31 58	−1	61 31 57
8	95 40 00	−1	95 39 59
7	161 43 12	−1	161 43 11
6	216 18 45**	−1	216 18 44
	1080 00 05		1080 00 00

* old system using 1-14 = 0°00'00"
** calc. from adj. figures on p. 6

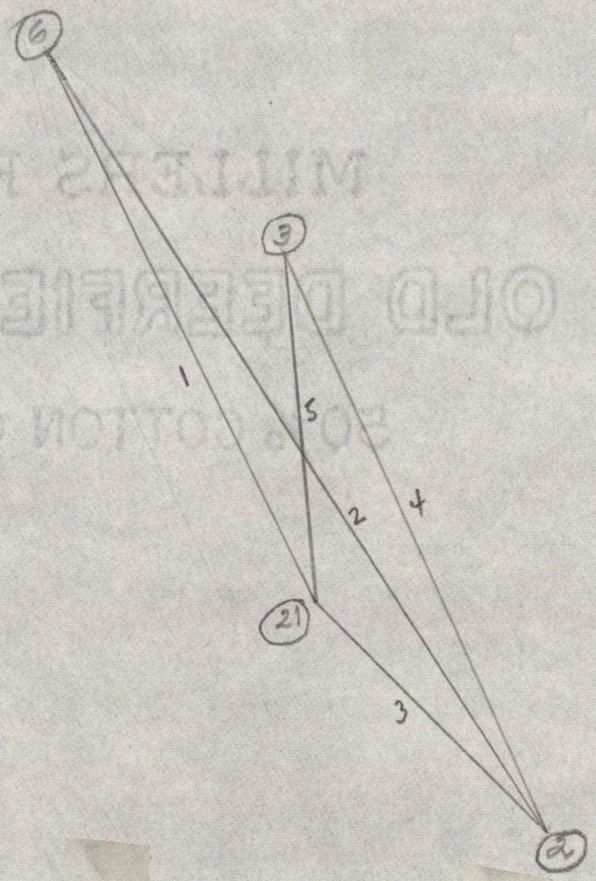
2 If the 15-side circuit on the Mc Clelland survey had been adj. by compass method, the coords. would have been these.


12
11
10
15
9
23
94°55'49"
8
336°27'46"
22
179°15'50"
341°59'31"
7
197°32'39"
6
341°18'55"
3
21
140°07'43"
2
250°49'48"
70°49'48"
20
(170)
151°49'15"
1304.563'
19
(146)
83°14'07"
1563.179'
(145)
31
32
(179)
258°24'11"
136.46'

P 1

	1	***
32	17350.451	*** from Carlisle survey
	20002.266	***
	2	***
	4	***
	258.2411	***
	136.460	***
31	17323.019	***
	19868.592	***
	83.1407	***
	1563.179	***
19	17507.150	***
	21420.888	***
	151.4915	***
	1304.563	***
20	16357.210	***
	22036.942	***
	250.4948	***
	7777.614	***
21	13803.258	***
	14690.609	***
	3	***
	4	***
	161.0743	***
	290.585	***
2	13528.293	***
	14784.597	***
	349.0734	***
	82.453	***
3	13884.231	***
	14675.055	***
	2	***
	4	***
	341.1355	***
	558.391	***
6	14331.959	***
	14510.954	***
	2	***
	5	***
2	13528.293	***
	14784.597	***
6-2	161.1148	***
	848.976	*** — 848.992' meas.
3	13884.231	***
	14675.055	***
2-3	342.5338	***
	372.413	*** — 372.422' meas.

∠ 6-2-3 =
1°41'50" calc.
1°41'43" meas. ← use in △ closure calc.



	1	***
21	13803.258	***
	14690.609	***
	2	***
	4	***
	341.1355	***
	558.391	***
6	14331.959	***
	14510.953	***
	161.1148	***
	848.992	***
2	13528.277	***
	14784.601	***
	341.0743	***
	290.585	***
Closure on 21	13803.242	−0.016
	14690.613	+0.004
	3	***
	5	***
21	13803.258	***
	14690.609	***
error	345.5547	***
	0.016	***

	1	**
21	13803.258	**
	14690.609	***
	2	***
	4	***
	161.0743	***
	290.585	***
2	13528.293	***
	14784.597	***
	342.5331	***
	372.422	***
3	13884.236	***
	14675.040	***
	169.0734	***
	82.453	***
Closure on 21	13803.263	+0.005
	14690.595	−0.014
	2	***
	5	***
21	13803.258	***
	14690.609	***
error	110.0608	***
	0.015	***

Simultaneously adjust the above triangles by the method of least squares. There being no correlation in said method between corrections to the Northings and the Eastings, each will be adjusted separately.

Letting l_1, l_2, etc., be the most probable corrections to the latitudes of lines 1, 2, etc.,

$$l_1 + l_2 + l_3 = +0.016$$
$$-l_3 + l_4 + l_5 = -0.005$$

Assuming all lengths were measured with equal care, the correlates are as follows:

	1	2	l
1	+1		+0.005
2	+1		+0.006
3	+1	−1	+0.005
4		+1	+0.000
5		+1	+0.000

Normal Eq.

	1	2	η
1	+3	−1	= +0.016
2	−1	+3	= −0.005

Solving,

$$C_1 = +0.00538$$
$$C_2 = +0.00012$$

Letting d_1, d_2, etc., be the most probable corrections to the departures of lines 1, 2, etc.,

$$d_1 + d_2 + d_3 = -0.004$$
$$-d_3 + d_4 + d_5 = +0.014$$

Correlate Eq.

	1	2	d
1	+1		+0.000
2	+1		+0.000
3	+1	−1	−0.004
4		+1	+0.005
5		+1	+0.005

Normal Eq.

	1	2		n
1	+3	−1	=	−0.004
2	−1	+3	=	+0.014

Solving $C_1 = +0.00025$

$C_2 = +0.00475$

Sta	Orig. N	Corrections	Adj. N	Orig. E	Corrections	Adj. E
2	13528.277	+0.005 +0.006	13528.288	14784.601	0	14784.601
3	13884.236	−0.005	13884.231	14675.040	+0.004 +0.005	14675.049
6	14331.959	+0.005	14331.964	14510.953	0	14510.953

```
                1   ***
21   13803.258   ***
     14690.609   ***
                3   ***
                5   ***
2    13528.288   ***
     14784.601   ***
21-2   161.0742   ***
       290.591   ***
6    14331.964   ***
     14510.953   ***
21-6   341.1355   ***
       558.396   ***
```

```
                2   ***
                5   ***
3    13884.231   ***
     14675.049   ***
21-3   349.0721   ***
        82.454   ***
2    13528.288   ***
     14784.601   ***
3-2    162.5334   ***
       372.421   ***
6    14331.964   ***
     14510.953   ***
2-6    341.1147   ***
       848.987   ***
```

Adjust circuit 21-22-23-8-7-6-21:

21 [N1=13,803.2580
E1=14,690.6090

AZ=341.5931
HD=2,625.7900

22 [N2=16,300.4186
E2=13,878.8442

AZ=336.2746
HD=979.2100

23 [N3=17,198.1591
E3=13,487.8018

AZ=94.5549
HD=1,295.2720

8 [N4=17,086.8390
E4=14,778.2813

AZ=179.1550
HD=1,834.7840

7 [N5=15,252.2064
E5=14,801.8532

AZ=197.3239
HD=965.1570

6 [N6=14,331.9438
E6=14,510.9154

AZ=161.1355
HD=558.3960

Closure on 21 [N7=13,803.2384
E7=14,690.5725

ΣHD=8,258.6090
AREA=1,959,228.041
CLOSURE
AZ=61.4800
HD=0.0414

21 [N8=13,803.2580
E8=14,690.6090

22 [N ADJ=16,300.4248
E ADJ=13,878.8558

23 [N ADJ=17,198.1676
E ADJ=13,487.8177

8 [N ADJ=17,086.8506
E ADJ=14,778.3030

7 [N ADJ=15,252.2224
E ADJ=14,801.8830

6 [N ADJ=14,331.9621
E ADJ=14,510.9494

21 [N ADJ=13,803.2580
E ADJ=14,690.6090

	1	***
21	13803.258	***
	14690.609	***
	2	***
	5	***
6	14331.962	***
	14510.949	***
21-6	341.1354	***
	558.396	***
7	15252.222	***
	14801.883	***
6-7	17.3238	***
	965.154	***
8	17086.851	***
	14778.303	***
7-8	359.1549	***
	1834.780	***

	6	***
7-8 =	359.1549	***
	9	***
	178.4406	***
8-9 =	357.5955	***
	9	***
	181.3142	***
9-10 =	359.3137	***
	9	***
	180.4510	***
10-11 =	0.1647	***
	9	***
	87.4647	***
11-12 =	268.0334	***

	6	**
8-9 =	357.5955	***
	9	***
	181.3153	***
9-15 =	359.3148	***

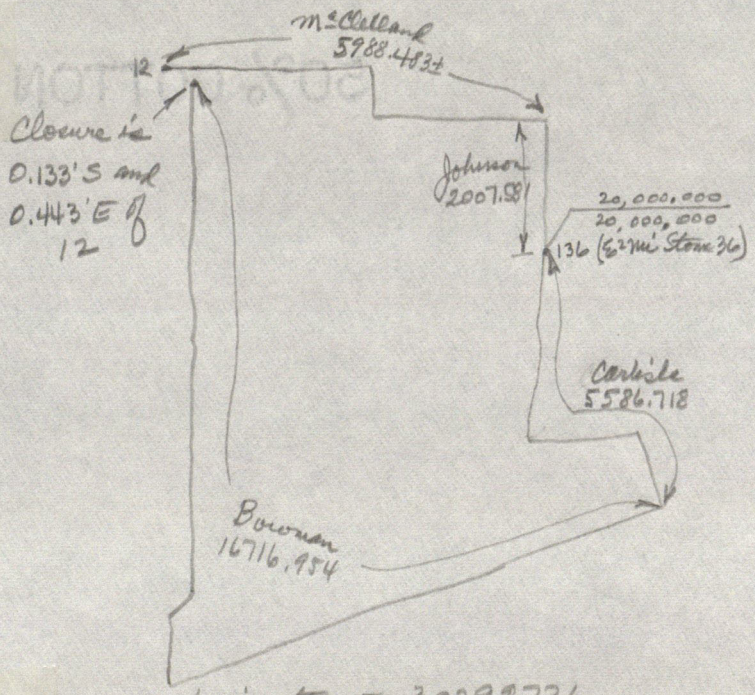
	1	***
8	17086.851	***
	14778.303	***
	2	***
	4	***
	357.5955	***
	1728.685	***
9	18814.481	***
	14717.931	***
	3	***
	4	***
	359.3148	***
	1183.472	***
15	19997.914	***
	14708.223	***
	2	***
	4	***
	359.3137	***
	2278.035	***
10	21092.439	***
	14699.123	***
	0.1647	***
	1567.376	***
11	22659.796	***
	14706.775	***
	268.0334	***
	6.010	***
12	22659.593	***
	14700.768	***
	2	***
	5	***
15	19997.914	***
	14708.223	***
12-15	179.5022	***
	2661.689	***

Closure on 12 has greater error than expected. Reobserved in field the traverse from 9 to 12 with the following results:

	6	***
8-9	357.5955	***
	9	***
	181.3121	***
9-10	359.3116	***
	9	***
	180.4639	***
10-33	0.1755	***
	9	***
	86.0349	***
33-12	266.2144	***
	6	***
8-9	357.5955	***
	9	***
	181.3132	***
9-15	359.3127	***

9	18814.481	**
	14717.931	***
	3	***
	4	***
	359.3127	***
	1183.472	***
15	19997.913	***
	14708.102	***
	2	***
	4	***
	359.3116	***
	2278.035	***
10	21092.437	***
	14698.891	***
	0.1755	***
	1567.600	***
33	22660.016	***
	14707.061	***
	266.2144	***
	6.690	***
12	22659.591	**
	14700.384	**
	2	**
	5	***
15	19997.913	***
	14708.102	***
12-15	179.5002	***
	2661.689	***

A general readjustment of the Carterbay net, including traverses on the McClelland, Johnson, Carlisle, Potts, & Bowman jobs, is appropriate. However, since insufficient time prevents that, only the McClelland, Johnson-Potts, Carlisle & Bowman main loop will be adjusted by the compass method.



perimeter = 30299.736
hold cords. of 136

$$\frac{5988.483 + 2007.581}{30299.736} = 0.2639$$

12 (from p. 2) 22659.724 14699.941

0.2639 × 0.133 = − 0.035 + 0.117 = 0.2639 × 0.443

[adjusted 12 = 34 = 22659.759 14700.058]

BOWMAN ESTATE
***** JOB # 84
COORDINATE FILE 0241WA
LENGTH = 500 POINTS
TIME ON FILE: 0 00 00

******* FIELD TRAVERSE ********

From Carlisle survey

	136	20,000.000	20,000.000
	NA 180 45 42 784.161		
	137	19,215.908	19,989.576
	NA 179 39 03 930.202		
	140	18,285.724	19,995.245
	NA 210 31 13 296.433		
	142	18,030.362	19,844.703
	NA 175 22 40 187.709		
	143	17,843.263	19,859.830
	NA 180 54 11 184.636		
	144	17,658.650	19,856.920
	NA 178 00 28 335.835		
31	145	17,323.018	19,868.595
	NA 83 14 07 1563.179		
19	146	17,507.149	21,420.891
	NA 151 49 15 1304.563		
20	170	16,357.269	22,036.945
	NA 250 49 48 7777.614		
	21	13,803.257	14,690.612
	NA 341 13 54 558.396		
	6	14,331.962	14,510.953
	NA 17 32 38 965.154		
	7	15,252.223	14,801.885
	NA 359 15 49 1834.780		
	8	17,086.851	14,778.304
	NA 357 59 55 1728.685		
	9	18,814.482	14,717.932
	NA 359 31 16 2278.035		
	10	21,092.437	14,698.892
	NA 0 17 55 1567.600		
	33	22,660.016	14,707.062
	NA 266 21 44 6.690		
	34	22,659.591	14,700.386
		22,659.759	14,700.058
CORRECT	21		
	(TO HOLD 21-6 GOOD)		-558.396
	6		

HORIZONTAL CLOSURE
NW 62 54 32

.368 CLOSING LINE
21,745.276 DIST TRAV
59,105.269 PRECISION

COMPASS ADJUSTMENT

	136	20,000.000	20,000.000
	SW 0 45 45 784.155		
	137	19,215.914	19,989.564
	SE 0 20 54 930.195		
	140	18,285.737	19,995.219
	SW 30 31 16 296.433		
	142	18,030.377	19,844.673
	SE 4 37 17 187.707		
	143	17,843.280	19,859.797
	SW 0 54 14 184.635		
	144	17,658.668	19,856.884
	SE 1 59 29 335.832		
31	145	17,323.039	19,868.554
	NE 83 14 05 1563.157		
19	146	17,507.162	21,420.827
	SE 28 10 43 1304.545		
20	170	16,357.252	22,036.861

```
      SW  70 49 51
      7777.705
  21    13,803.360     14,690.411
-------------------------------------
HELD  NW  18 46 05
       558.396
   6    14,332.065     14,510.751
-------------------------------------
      NE  17 32 35
       965.157
   7    15,252.303     14,801.669
-------------------------------------
      NW   0 44 14
      1834.794
   8    17,086.976     14,778.061
-------------------------------------
      NW   2 00 38
      1728.699
   9    18,814.620     14,717.663
-------------------------------------
      NW   0 28 47
      2278.053
  10    21,092.583     14,698.588
-------------------------------------
      NE   0 17 32
      1567.612
  33    22,660.183     14,706.735
-------------------------------------
      SW  86 21 46
         6.690
  34    22,659.739     14,700.058
-------------------------------------
TIME FOR THIS RUN:      0 27 47
TOTAL TIME ON FILE:     0 27 47

-------------------------------------
COORDINATES STORED
```

Inverse traverse using coordinates adjusted on p.7:

```
                1    ***
21   13803.258     ***
     14690.609     ***
                2    ***
                5    ***
22   16300.425     ***
     13878.856     ***
21-22  341.5932    ***
       2625.792    ***
23   17198.168     ***
     13487.818     ***
22-23  336.2747    ***
       979.210     ***
8    17086.851     ***
     14778.303     ***
23-8   94.5548     ***
       1295.277    ***
```

Ag. rotated 0°00'03" CW to fit
Adj. main traverse:

```
-------------------------------------
******* FIELD TRAVERSE *********
-------------------------------------
  21    13,803.360     14,690.411
-------------------------------------
      NA 341 59 35
      2625.792
  22    16,300.538     13,878.694
-------------------------------------
      NA 336 27 30
       979.210
  23    17,198.286     13,487.669
-------------------------------------
      NA  94 55 51
      1295.277
  35    17,086.953     14,778.152
-------------------------------------
-------------------------------------
        17,086.976     14,778.061

HORIZONTAL CLOSURE
      NW  76 08 10

             .034 CLOSING LINE
        4,900.279 DIST TRAV
       52,048.677 PRECISION
-------------------------------------
COMPASS ADJUSTMENT
-------------------------------------
  21    13,803.360     14,690.411
-------------------------------------
      NW  18 00 28
      2625.819
  22    16,300.530     13,878.645
-------------------------------------
      NW  23 32 13
       979.221
  23    17,198.303     13,487.602
-------------------------------------
      SE  85 04 10
      1295.252
  35    17,086.976     14,778.061
-------------------------------------
TIME FOR THIS RUN:      0 15 21
TOTAL TIME ON FILE:     0 43 08

-------------------------------------
COORDINATES STORED
```

AZIMUTHS

P 6

at 3	2	162.53330	***
	4	107.4409	***
	5	78.0813	***
at 7	6	197.32350	***
	R.O.#1	198.0959	***
	14	179.2429	***
	28	286.5503	***
	25	0.0938	***
	26	359.5521	***
	R.O.#2	211.2721	***
at 23	22	156.27470	***
	R.O.	287.5323	***
	R.O.	0.5912	***
	8	94.55~~49~~50"	***
	24	275.4409	***
	16	275.5426	***

P 6

at 9	8	177.59520	***
	15	359.3124	***

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

ENTER & ASSIGN

31	17,323.039	19,868.554
19	17,507.182	21,420.827
20	16,357.202	22,036.861

START

31	17,323.039	19,868.554

TRAV NE 78 24 14
136.460

32	17,350.469	20,002.229

START

21	13,803.330	14,690.411

S.S. NW 18 46 06
558.396

6	14,332.065	14,510.751

S.S. NW 10 52 40
82.454

3	13,884.333	14,674.851

TRAV SE 18 52 19
290.591

2	13,528.330	14,784.404

S.S. NW 18 48 14
848.987

6	14,332.065	14,510.751

INV NW 17 06 27
372.420

3	13,884.333	14,674.851

S.S. SE 72 15 31
140.756

4	13,841.454	14,808.917

TRAV NE 78 08 13
136.580

5	13,912.410	14,808.514

INV SE 0 19 32
70.957

4	13,841.454	14,808.917

INV NW 0 19 32
70.957

5	13,912.410	14,808.514

START

7	15,252.333	14,801.669

S.S. SE 0 35 31
283.753

14	14,968.595	14,804.601

S.S. NW 73 04 37
714.758

28	15,460.324	14,117.842

S.S. NE 0 09 38
213.427

25	15,465.759	14,802.267

TRAV NW 0 04 39
628.345

26	15,880.678	14,800.819

START

23	17,198.303	13,487.602

S.S. NW 84 05 34
1362.309

16	17,338.509	12,132.527

TRAV NW 84 15 31
1418.859

24	17,340.137	12,075.847

S.S. SE 88 23 07
56.703

16	17,338.509	12,132.527

INV NE 89 55 30
7926.389

32	17,350.469	20,002.229

```
START
   9     18,814.620     14,717.663
-----------------------------------
TRAV  NW    0 28 36
      1183.472
  15     19,998.05105   14,707.81733
-----------------------------------
S.S.  NW    0 10 31
      2661.720
  34     22,659.739     14,700.058
-----------------------------------
START
   2     13,528.390     14,784.404
-----------------------------------
TRAV  SE    3 01 15
       514.857
   1     13,014.249     14,811.536
-----------------------------------
INV   NW    0 12 12
      1954.359
  14     14,968.595     14,804.601
-----------------------------------
OFFSETS FROM A LINE
   1     13,014.249     14,811.536
BASE BRG          NW   0 12 12

POINT     BASE DIST          OFFSET
   4        827.210           0.316
   5        898.136           0.165

START
  28     15,460.324     14,117.842
-----------------------------------
D-D   NW    1 27 02
       414.934
  27     15,875.125     14,107.339
-----------------------------------
D-D   NE   89 32 28
       693.502
  26     15,880.678     14,800.819
-----------------------------------
```

error 130 on line 9590. Coordinates would not store; data cannot be recalled from disk.

```
TIME FOR THIS RUN:     0 28 51
TOTAL TIME ON FILE:    1 12 00
```

```
                1     ***
28 [15460.324     ***
   [14117.842     ***
                2     ***
                5     ***
25 [15465.759     ***
   [14802.267     ***
28-25 [  89.3242  ***
      [  684.447  ***
```

```
-----------------------------------
************* COGO *********
-----------------------------------
LIST
-----------------------------------
     6     14,332.665     14,510.751
     7     15,252.333     14,801.669
     8     17,086.976     14,778.061
     9     18,814.620     14,717.663
    10     21,092.593     14,698.588
    21     13,803.360     14,690.411
    22     16,300.530     13,878.645
    23     17,198.333     13,487.602
11  33     22,660.133     14,706.735
12  34     22,659.739     14,700.058
    35     17,086.976     14,778.061
41 136     20,000.000     20,000.000
42 137     19,215.914     19,989.564
43 140     18,285.737     19,995.219
44 142     18,030.377     19,844.673
45 143     17,843.230     19,859.797
46 144     17,658.668     19,856.884
31 145     17,323.639     19,868.554
19 146     17,507.132     21,420.827
-----------------------------------
```

Procedure for allowing for the latitudinal curve of the corr. twp. line as req'd. in P S-21 of the Manual of Instructions for the Survey of the Public Lands, 1973.

The offset in feet to the curve from a tangent laid off 90° to a meridian at the P.T.

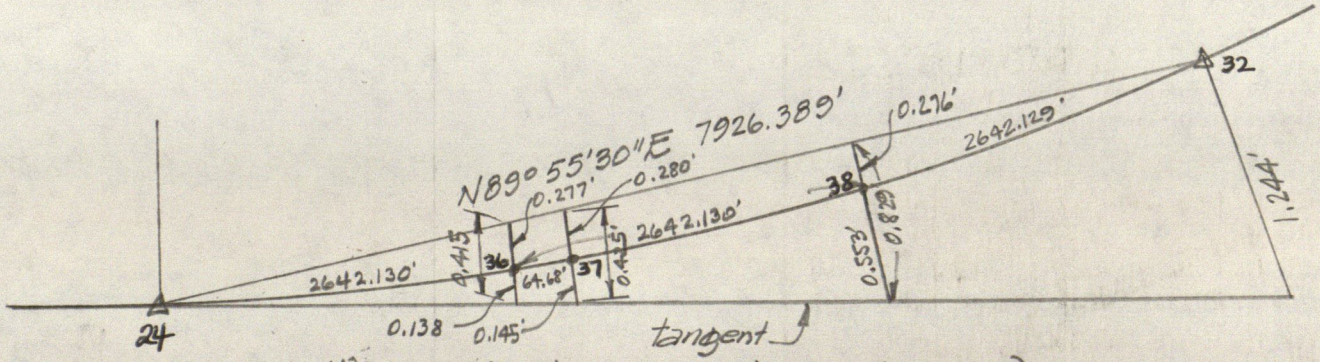
$$= \frac{d^2 \tan\phi \left(1-e^2 \sin^2\phi\right)^{\frac{1}{2}} \times 5280}{2a}$$

where d = distance from the P.T. in miles
ϕ = latitude
e = excentricity of Clarke's ellipsoid of 1866
a = semimajor axis of the ellipsoid in miles

For the latitude of the twp. line,

$$\tan 39°41'16 \sqrt{1-e^2 \sin^2 39°41'16'} = 0.828709568$$

so the offset (feet) = $0.552013035 d^2$



Sta.	d (dist. ft.)	d (miles)	d (miles)^2	offset (feet)
24	0.000	0.0000	0.000	0.000
36	2642.130	0.5004	0.2504	0.138
37	2706.810	0.51265	0.2628	0.145
38	5284.260	1.0008	1.0016	0.553
32	7926.389	1.5012	2.2536	1.244

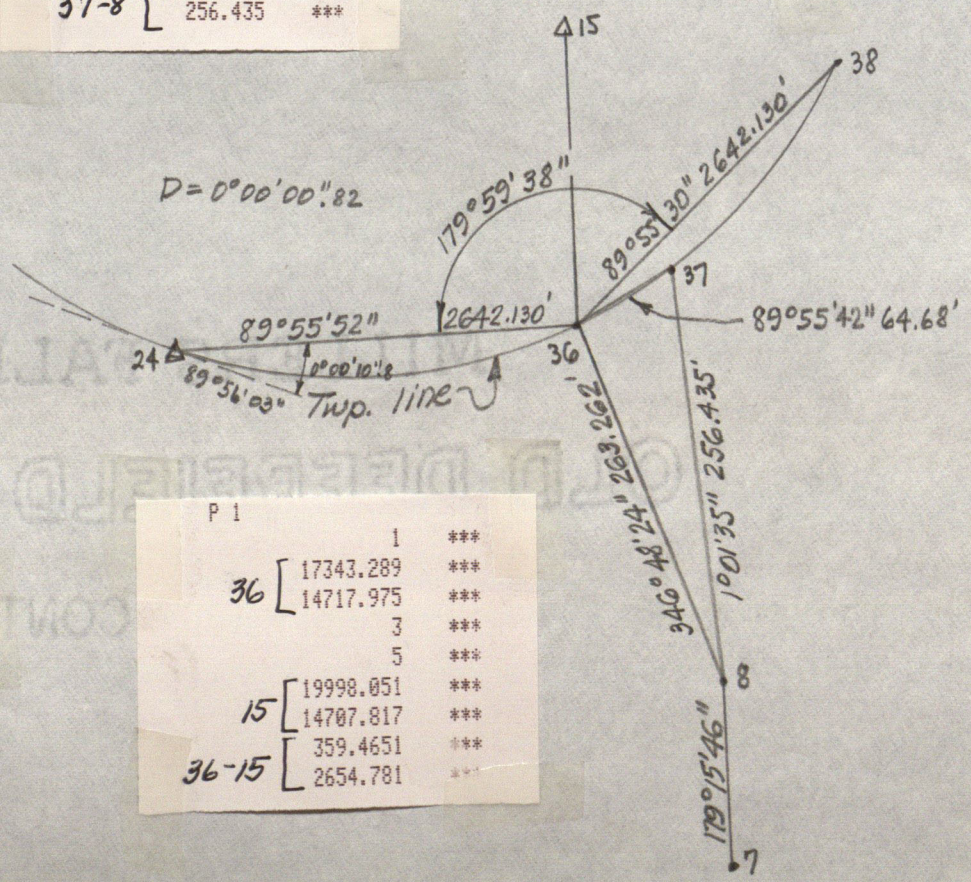
	1	***
24	17340.107	***
	12075.847	***
	2	***
	4	***
	89.5530	***
	2642.130	***
	17343.566	***
	14717.975	***
	3	***
	4	***
	179.5530	***
	0.277	***
36	17343.289	***
	14717.975	***
	2	***
	4	***
	89.5530	***
	64.680	***
	17343.650	***
	14782.655	***
	3	***
	4	***
	179.5530	***
	0.280	***
37	17343.370	***
	14782.655	***
	2	***
	4	***
	89.5530	***
	2577.450	***
	17347.024	***
	17360.102	***
	3	***
	4	***
	179.5530	***
	0.276	***
38	17346.748	***
	17360.103	***
	2	***
	4	***
	89.5530	***
	2642.129	***
closure on 32	17350.483	***
	20002.229	***

	1	***
24	17340.107	***
	12075.847	***
	2	***
	5	***
36	17343.289	***
	14717.975	***
24-36	89.5552	***
	2642.130	***
	3	***
	5	***
8	17086.976	***
	14778.061	***
36-8	166.4824	***
	263.262	***
38	17346.748	***
	17360.103	***
36-38	89.5530	***
	2642.130	***
	2	***
	5	***
37	17343.370	***
	14782.655	***
36-37	89.5542	***
	64.680	***
8	17086.976	***
	14778.061	***
37-8	181.0135	***
	256.435	***

	1	***
14	14968.595	***
	14804.601	***
	2	***
	5	***
37	17343.370	***
	14782.655	***
14-37	359.2814	***
	2374.876	*

P 2

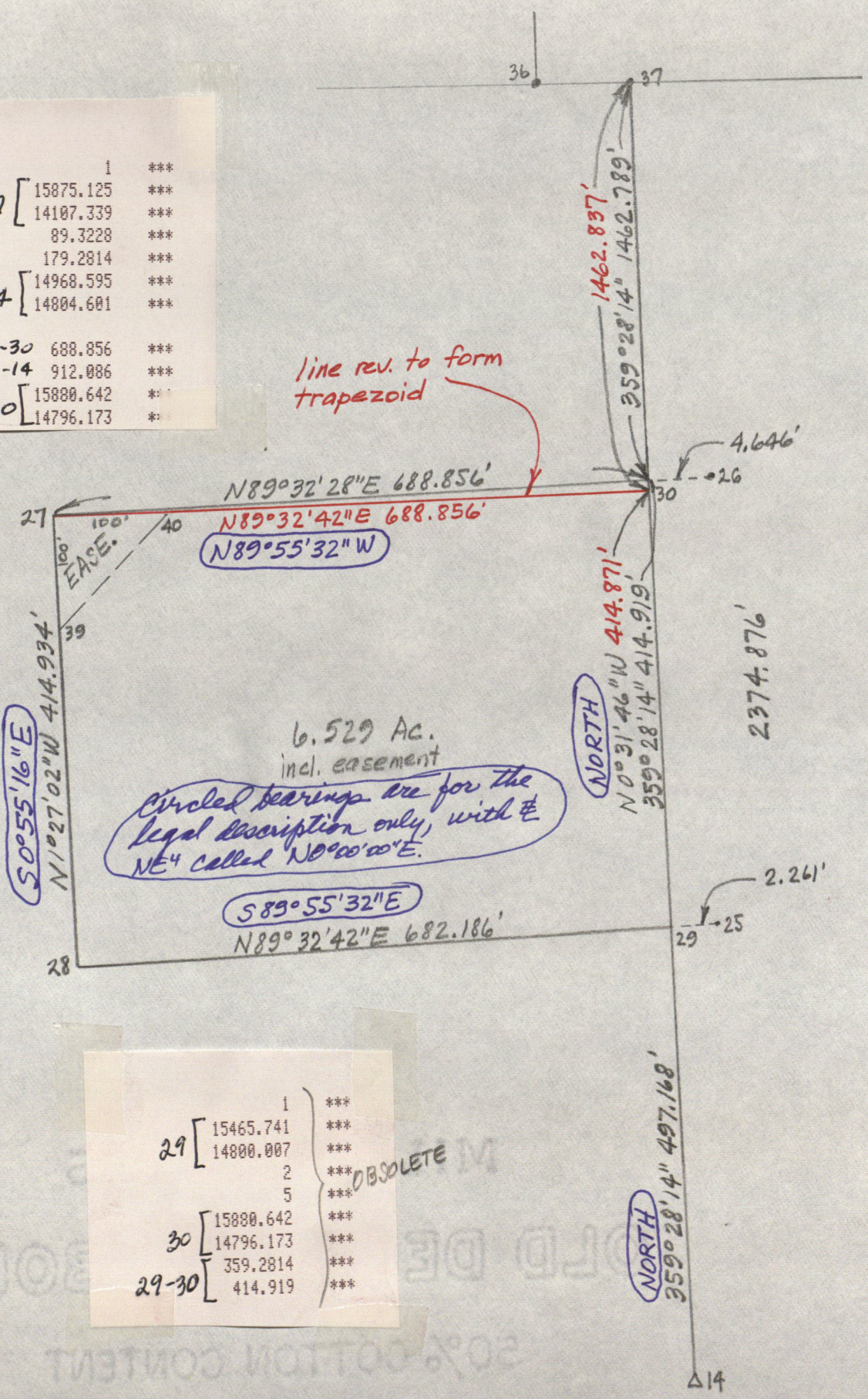
	1	***
28	15460.324	***
	14117.842	***
	89.3242	***
	179.2814	***
14	14968.595	***
	14804.601	***
28-29	682.186	***
29-14	497.168	***
29	15465.741	***
	14800.007	***



P 1

	1	***
36	17343.289	***
	14717.975	***
	3	***
	5	***
15	19998.051	***
	14707.817	***
36-15	359.4651	***
	2654.781	***

	1	***
27	15875.125	***
	14107.339	***
	89.3228	***
	179.2814	***
14	14968.595	***
	14804.601	***
27-30	688.856	***
30-14	912.086	***
30	15880.642	***
	14796.173	***



	1	***
29	15465.741	***
	14800.007	***
	2	***
	5	***
30	15880.642	***
	14796.173	***
29-30	359.2814	***
	414.919	***

OBSOLETE

P 3

	6	***
29	15465.741	***
	14800.007	***
	4	***
	0.3146	***
	359.2814	***
	414.870	***
30	15880.593	***
	14796.173	***
	3	***
	89.3242	***
	269.3242	***
	688.860	***
27	15875.123	***
	14107.335	***
	2	***
	1.2702	***
	178.3258	***
	414.930	***
28	15460.326	***
	14117.839	***
	1	***
	89.3242	***
	89.3242	***
	682.190	***
29	15465.743	***
	14800.007	***
	0.002	***
	2.900-04	***
	7.1303	***
	0.002	***
	2200.850	***
	953455	***
	284397.440	***
	6.529 AC.	***
	4	***

P 1

	1	***
27	15875.125	***
	14107.339	***
	3	***
	4	***
	89.3242	***
	100.000	***
40	15875.919	***
	14207.336	***
	2	***
	4	***
	178.3258	***
	100.000	***
39	15775.157	***
	14109.870	***
	2	***
	5	***
40	15875.919	***
	14207.336	***
39-40	44.0250	***
	140.187	***

P 3

	6	***
27	15875.125	***
	14107.339	***
	2	***
	1.2702	***
	178.3258	***
	100.000	***
39	15775.157	***
	14109.870	***
	1	***
	44.0250	***
	44.0250	***
	140.190	***
40	15875.921	***
	14207.338	***
	3	***
	89.3242	***
	269.3242	***
	100.000	***
27	15875.127	***
	14107.341	***
	0.002	***
	0.002	***
	44.0415	***
	0.003	***
	340.190	***
	130010	***
	4970.573	***
	0.114 AC.	***
	3	***

P 1 EASEMENT

	1	***
NW cor.	0.000	***
	0.000	***
	2	***
	4	***
	179.0444	***
	100.000	***
S cor.	-99.987	***
	1.608	***
	1	***
NW cor.	0.000	***
	0.000	***
	2	***
	4	***
	90.0428	***
	100.000	***
E cor.	-0.130	***
	100.000	***
	2	***
	5	***
	-99.987	***
	1.608	***
SE line	224.3436	** N44°34'36"E
	140.187	**

P 1

	1	***
36	17343.289	***
	14717.975	***
	2	***
	5	***
32	17350.469	***
	20002.229	***
36-32	89.5520	***
	5284.259	***

P 4

	1	***
24	17340.107	***
	12075.847	***
tan to curve	89.5603	***
	2	***
16	17338.509	***
	12132.527	***
Sta./offset	56.678	***
	1.663	***

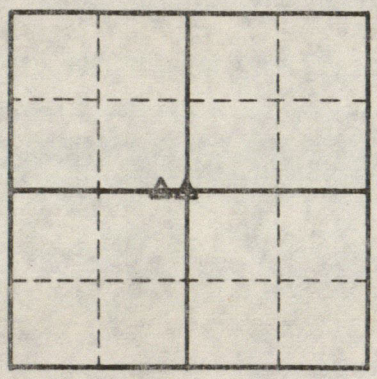
STANLEY M. SHARTLE

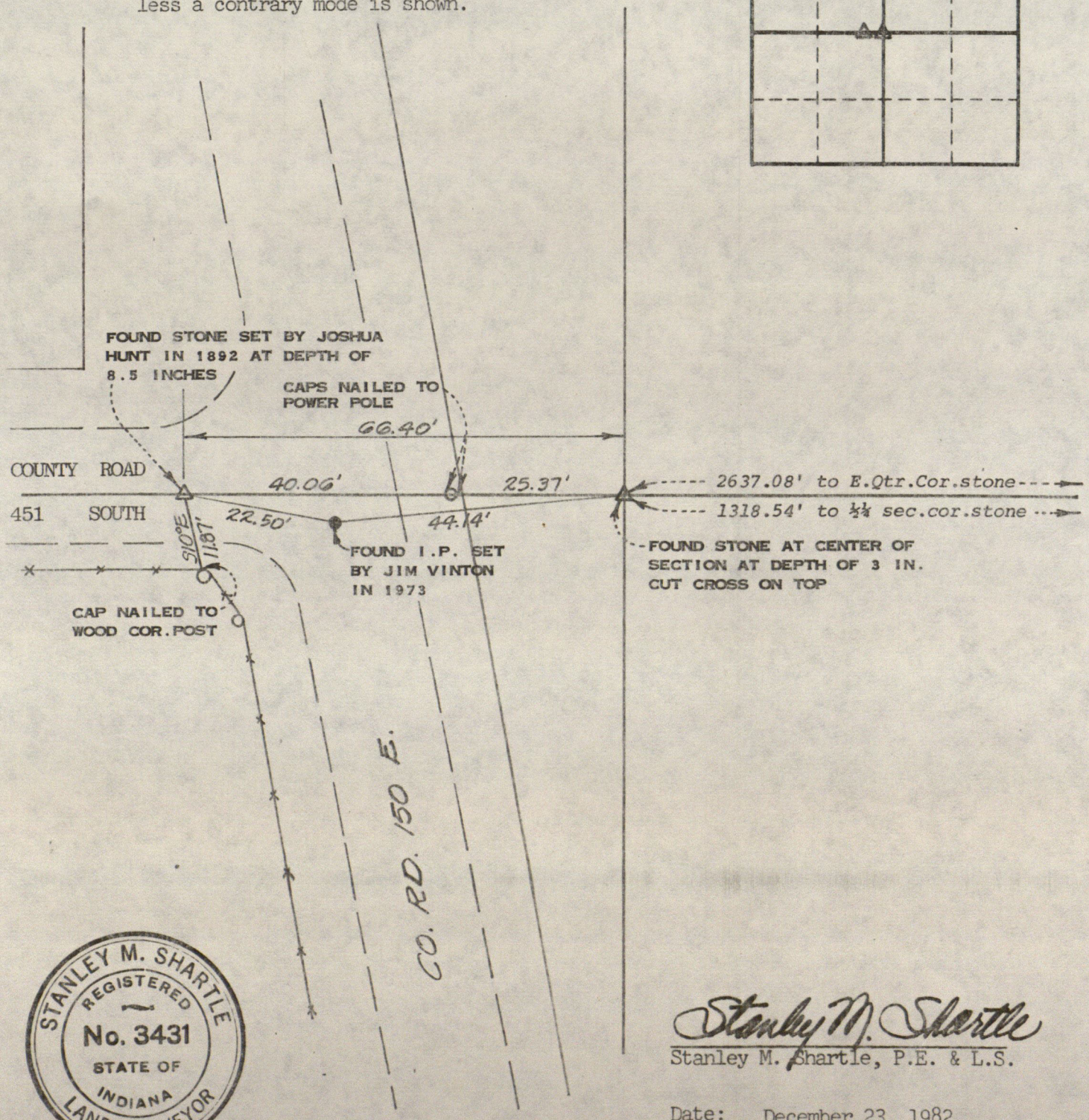
LOCATION OF MONUMENT: SECTION 35, T. 15 N., R. 1 W.

Found: ✓ Set: ___ Depth: see below

Description: see below

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 23, 1982

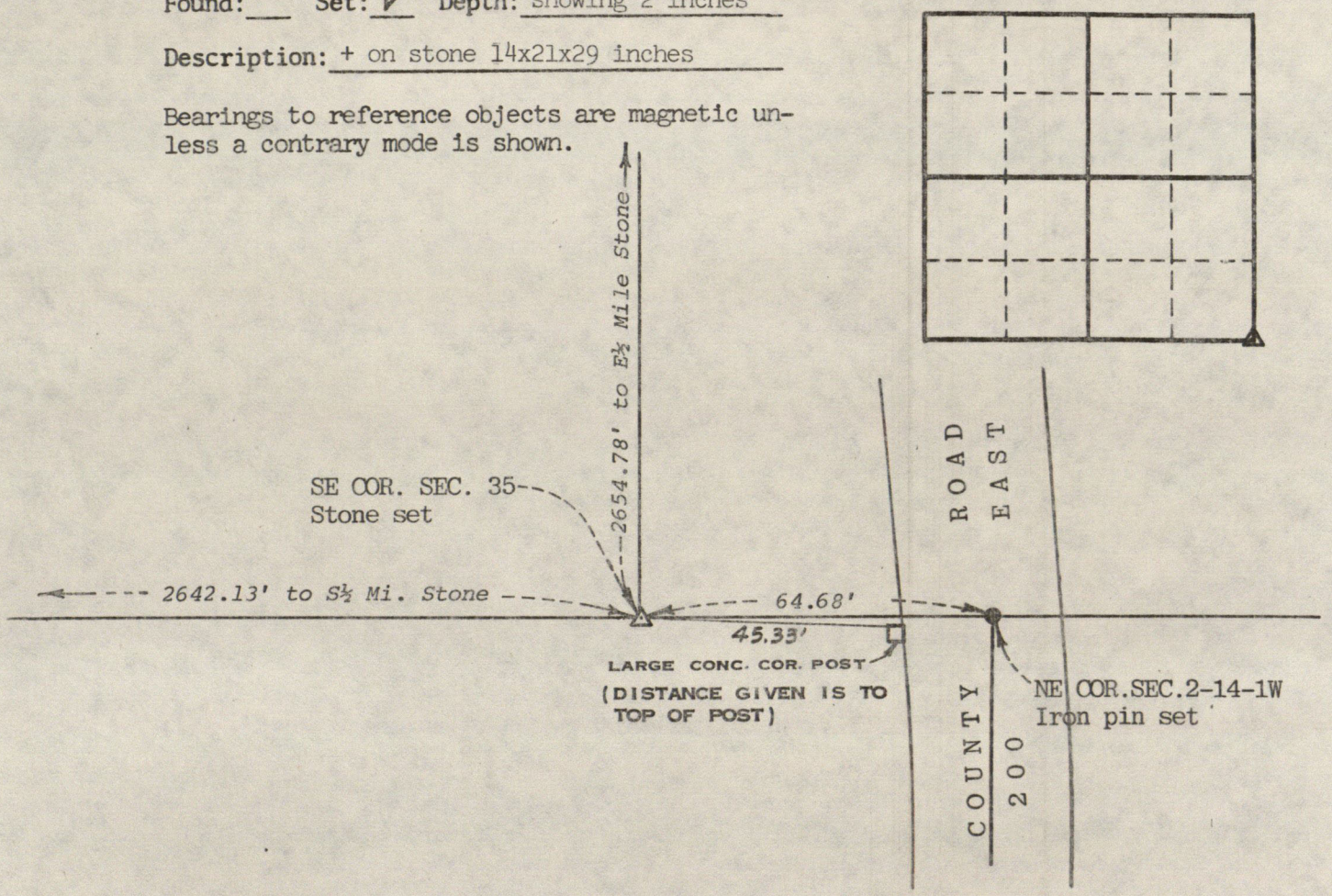
RECORD OF CORNER

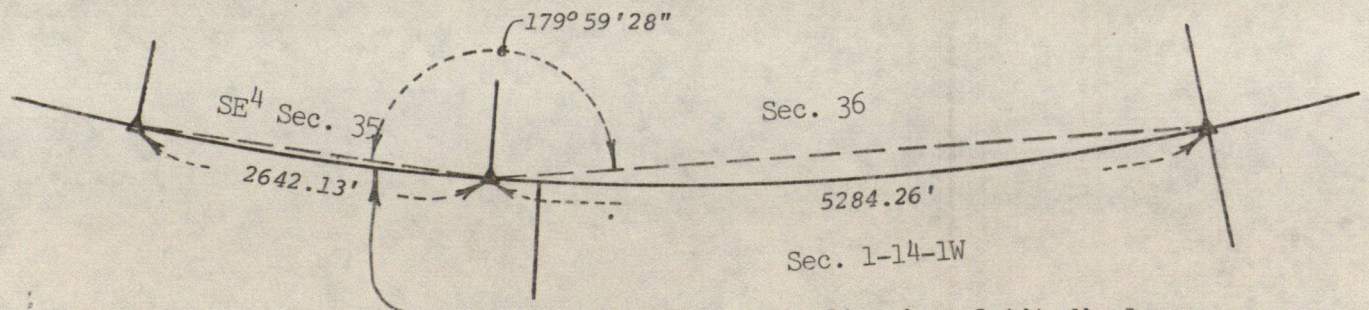
LOCATION OF MONUMENT: SECTION 35, T. 15 N., R. 1 W.

Found: ___ Set: ✓ Depth: showing 2 inches

Description: + on stone 14x21x29 inches

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





The congressional township line is a latitudinal curve adjusted to the mean bearing between the south quarter corner of Sec. 35 and the southeast corner of Sec. 36, both of which were found, and the lost southeast corner of Sec. 35 was restored on that curve by a single proportionate measurement. Radius of curve = 25,251,577.01'.

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

Stanley M. Shartle

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

Date: June 23, 1984

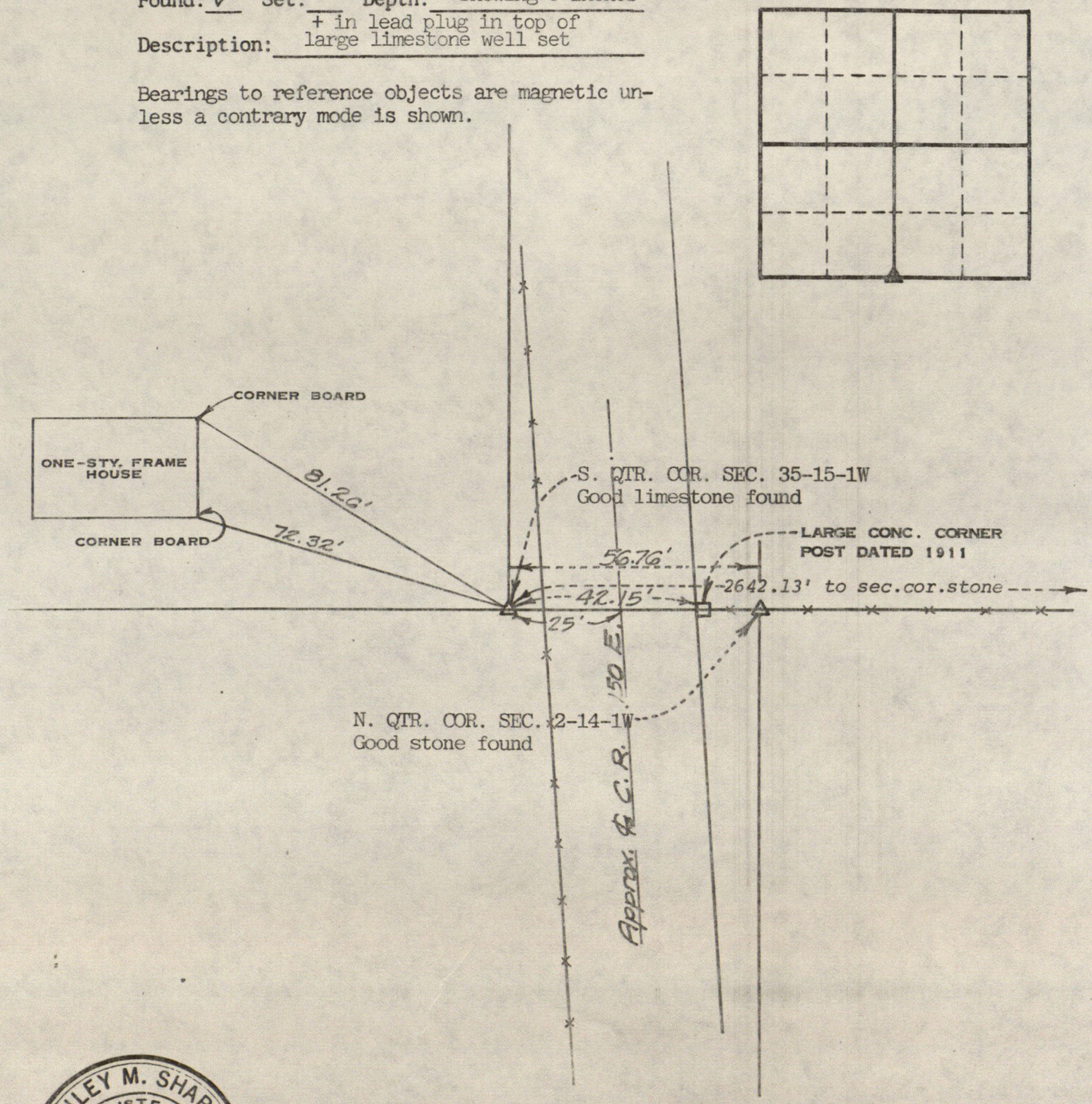
RECORD OF CORNER

LOCATION OF MONUMENT: SECTION 35, T. 15 N., R. 1 W.

Found: ✓ Set: ___ Depth: showing 6 inches

Description: + in lead plug in top of large limestone well set

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: June 12, 1984

STANLEY M. SHARTLE

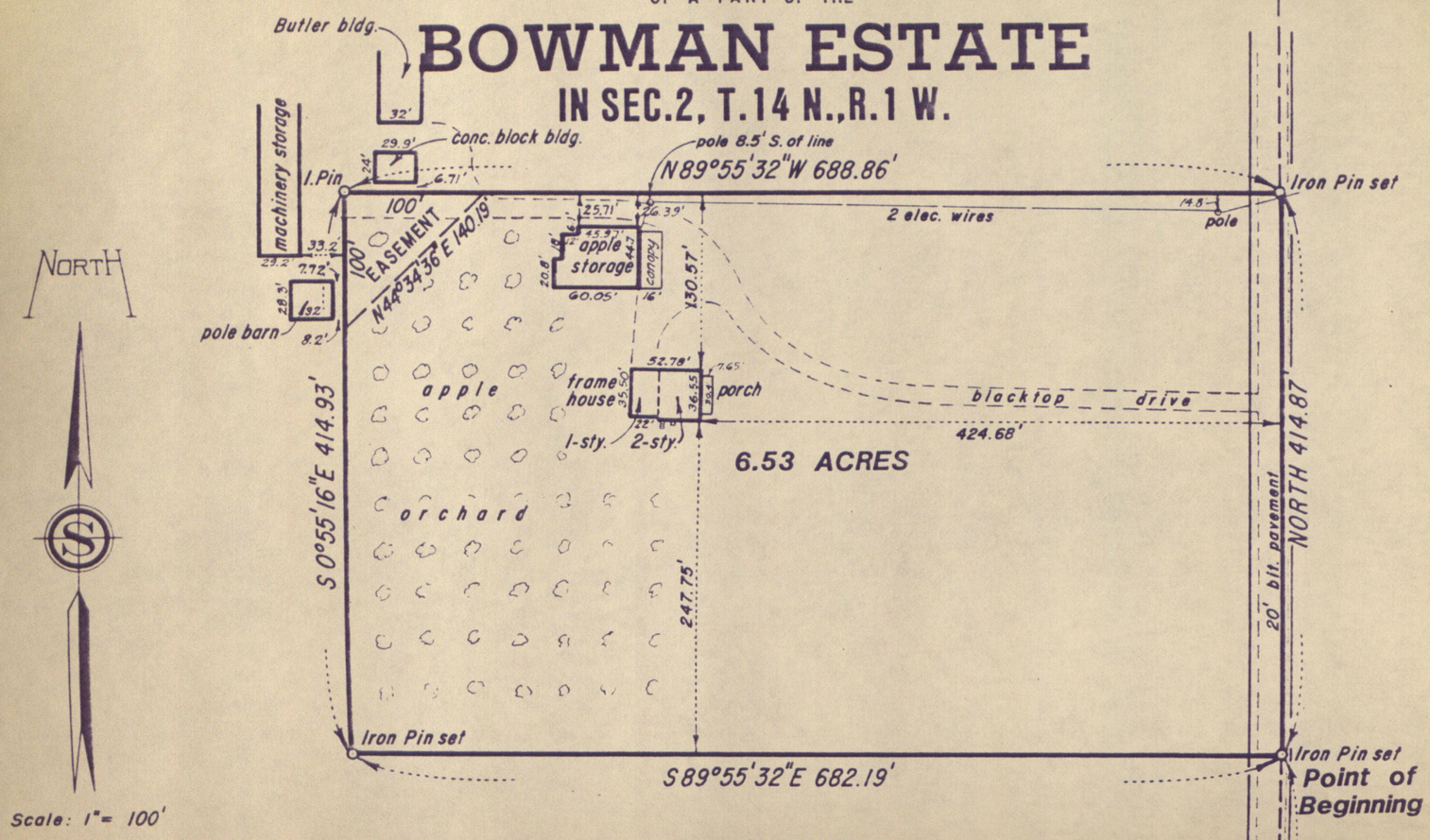
REGISTERED PROFESSIONAL ENGINEER
REGISTERED LAND SURVEYOR
R. R. 1, BOX 33
STILESVILLE, IND. 46180

Plat of Survey

OF A PART OF THE

BOWMAN ESTATE

IN SEC. 2, T. 14 N., R. 1 W.



Scale: 1" = 100'

A part of the Northeast Quarter of Section 2, Township 14 North, Range 1 West, Hendricks County, Indiana, described as follows: Beginning at an iron pin on the east line of said quarter section that is 497.17 feet North (assumed bearing) from two stones (one above the other) at the southeast corner of said quarter section; thence North along said east line 414.87 feet to an iron pin; thence North 89 degrees 55 minutes 32 seconds West 688.86 feet to an iron pin; thence South 0 degrees 55 minutes 16 seconds East 414.93 feet to an iron pin; thence South 89 degrees 55 minutes 32 seconds East 682.19 feet to the point of beginning; containing 6.53 acres, more or less. Subject to all legal highways, rights of way, and easements. The east line of said quarter section, as marked by said stones at the south end of said line and by an iron pin at the north end of said line, is an assumed meridian to which all cardinal and other bearings herein are oriented.

EASEMENT PARCEL

Beginning at the northwest corner of the above-described 6.53-acre parcel of land; thence South 0 degrees 55 minutes 16 seconds East along the west line of said 6.53-acre parcel 100.00 feet; thence North 44 degrees 34 minutes 36 seconds East 140.19 feet to the north line of said 6.53-acre parcel; thence North 89 degrees 55 minutes 32 seconds West along said north line 100.00 feet to the point of beginning; containing 0.11 acres, more or less.

All buildings located on the above-described 6.53-acre parcel are wholly within the boundaries of said parcel, and there are no encroachments upon said 6.53-acre parcel by buildings appurtenant to abutting lands.

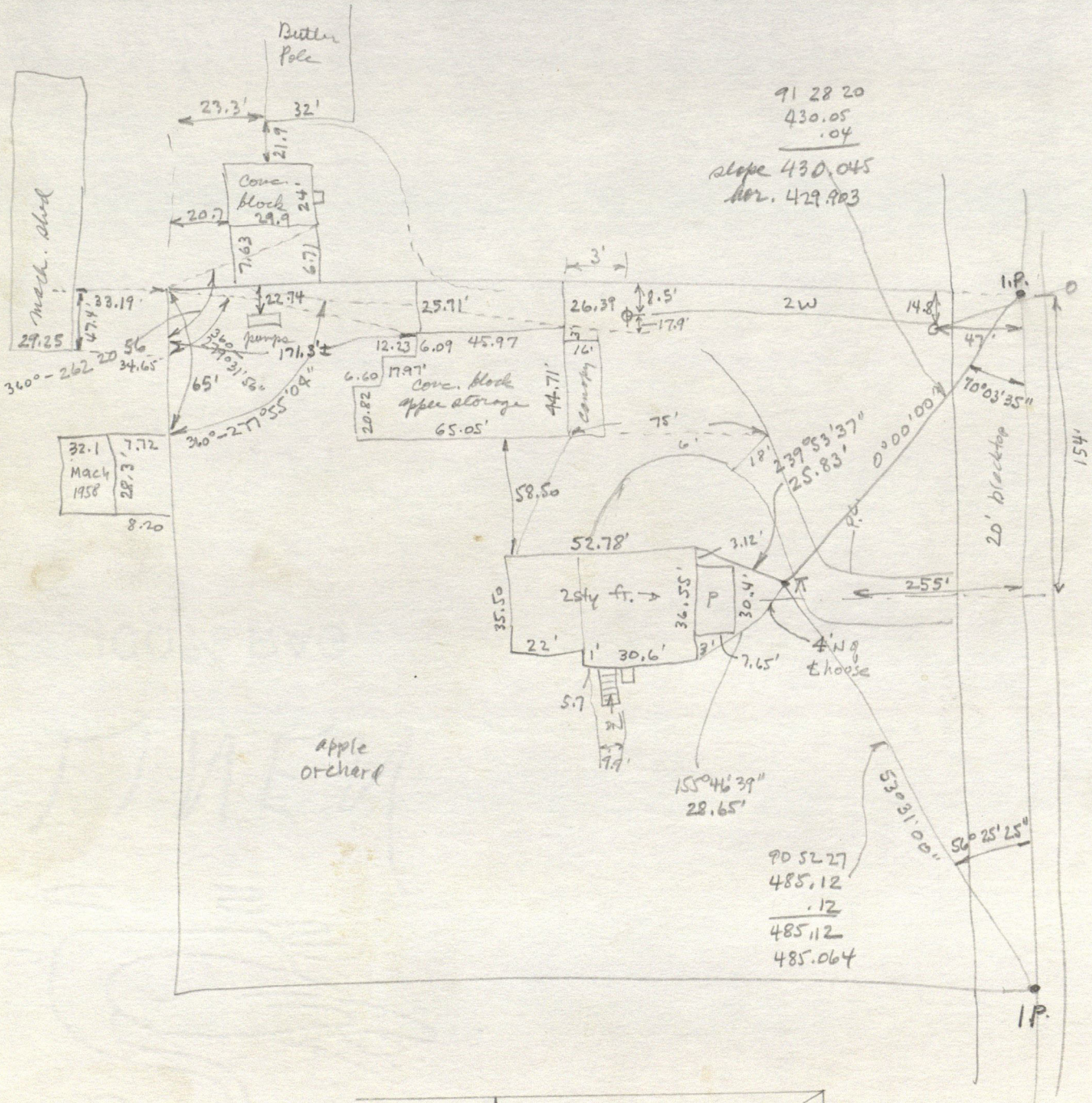
I, the undersigned, do hereby certify that I have surveyed the above described property in accordance with the official records, and that this plat is a true representation of said survey.

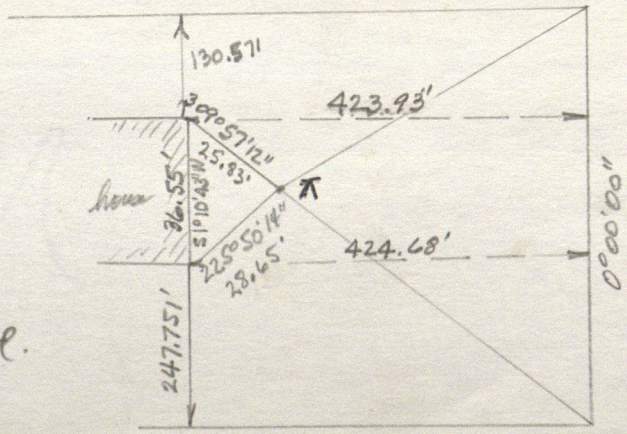
Given under my hand and seal *JUNE 26, 1984*.

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

Stanley M. Shartle

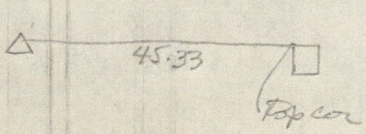
Stanley M. Shartle, Registered Land Surveyor No. 3431, State of Indiana





310 W. Joseph Rd.
Pfield 46168

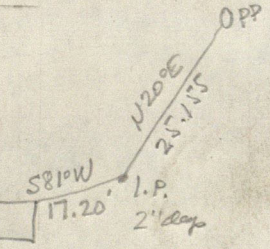
14 X 21 X 29



	1	***
14	14968.595	***
	14804.601	***
	2	***
	5	***
37	17343.370	***
	14782.655	***
14-37	359.2814	***
	2374.876	***

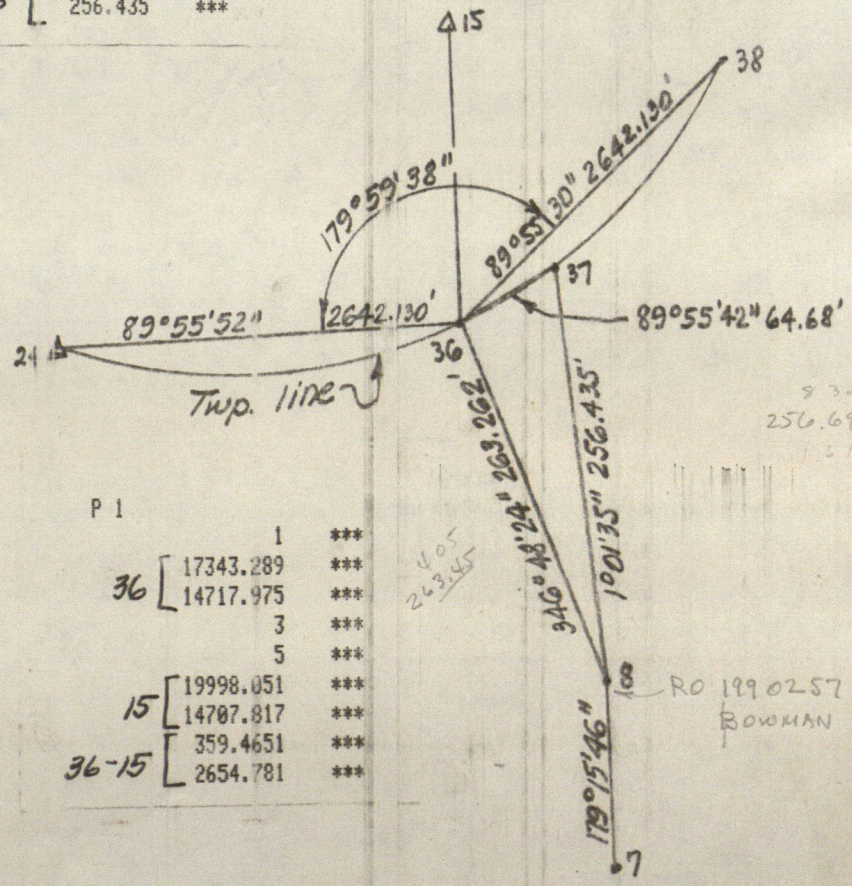
P 2

	1	***
28	15460.324	***
	14117.842	***
	89.3242	***
	179.2814	***
14	14968.595	***
	14804.601	***
28-29	682.186	***
29-14	497.168	***
29	15465.741	***
	14800.007	***



	1	***
24	17340.107	***
	12075.847	***
	2	***
	5	***
36	17343.289	***
	14717.975	***
24-36	89.5552	***
	2642.130	***
	3	***
	5	***
8	17086.976	***
	14778.061	***
36-8	166.4824	***
	263.262	***
38	17346.748	***
	17360.103	***
36-38	89.5530	***
	2642.130	***
	2	***
	5	***
37	17343.370	***
	14782.655	***
36-37	89.5542	***
	64.680	***
8	17086.976	***
	14778.061	***
37-8	181.0135	***
	256.435	***

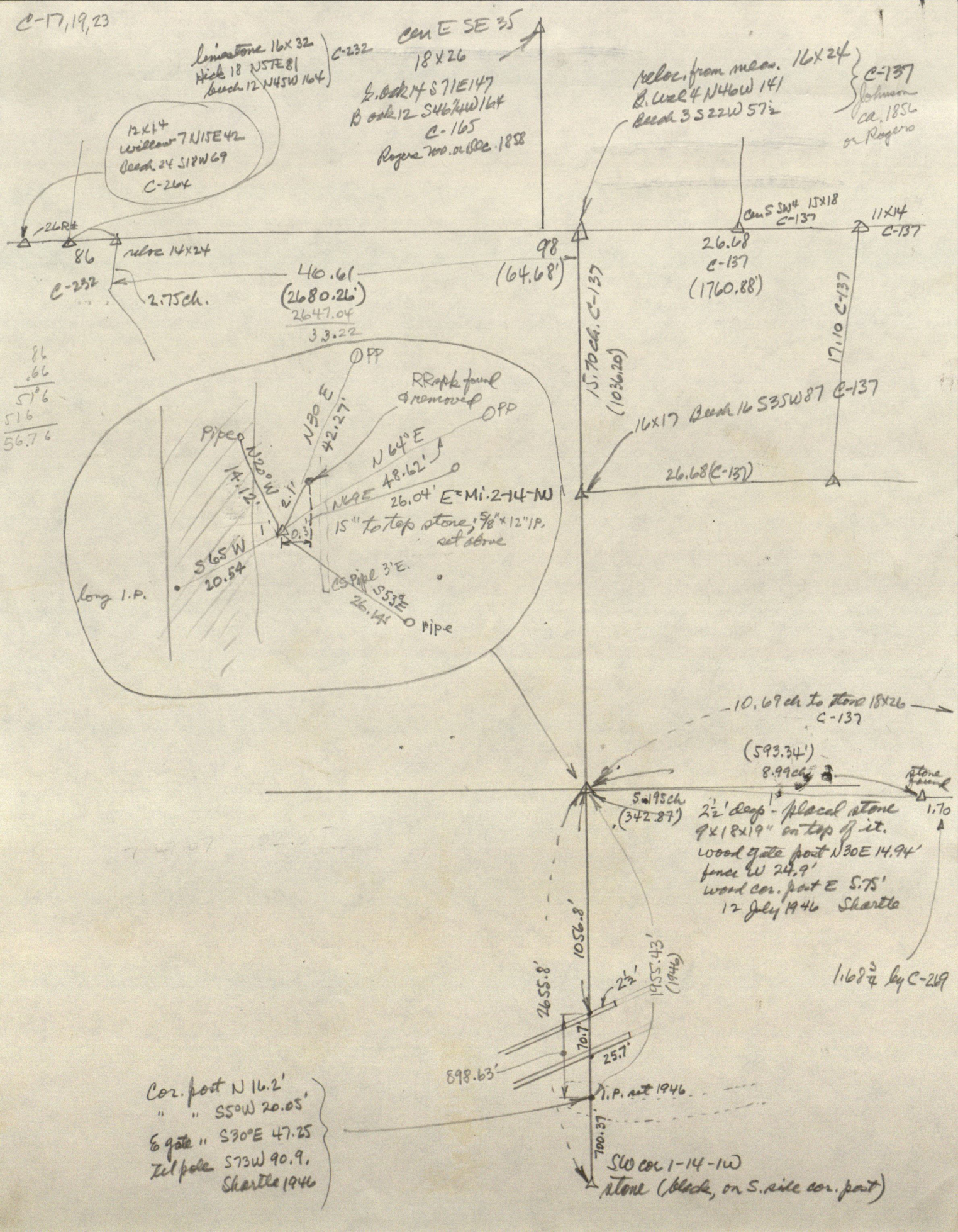
	1	***
24	17340.107	***
	12075.847	***
	2	***
	4	***
	89.5530	***
	2642.130	***
	17343.566	***
	14717.975	***
	3	***
	4	***
	179.5530	***
	0.277	***
36	17343.289	***
	14717.975	***
	2	***
	4	***
	89.5530	***
	64.680	***
	17343.650	***
	14782.655	***
	3	***
	4	***
	179.5530	***
	0.280	***
37	17343.370	***
	14782.655	***
	2	***
	4	***
	89.5530	***
	2577.450	***
	17347.024	***
	17360.102	***
	3	***
	4	***
	179.5530	***
	0.276	***
38	17346.748	***
	17360.103	***
	2	***
	4	***
	89.5530	***
	2642.129	***
Close on 12	17350.483	***
	20002.229	***



P 1

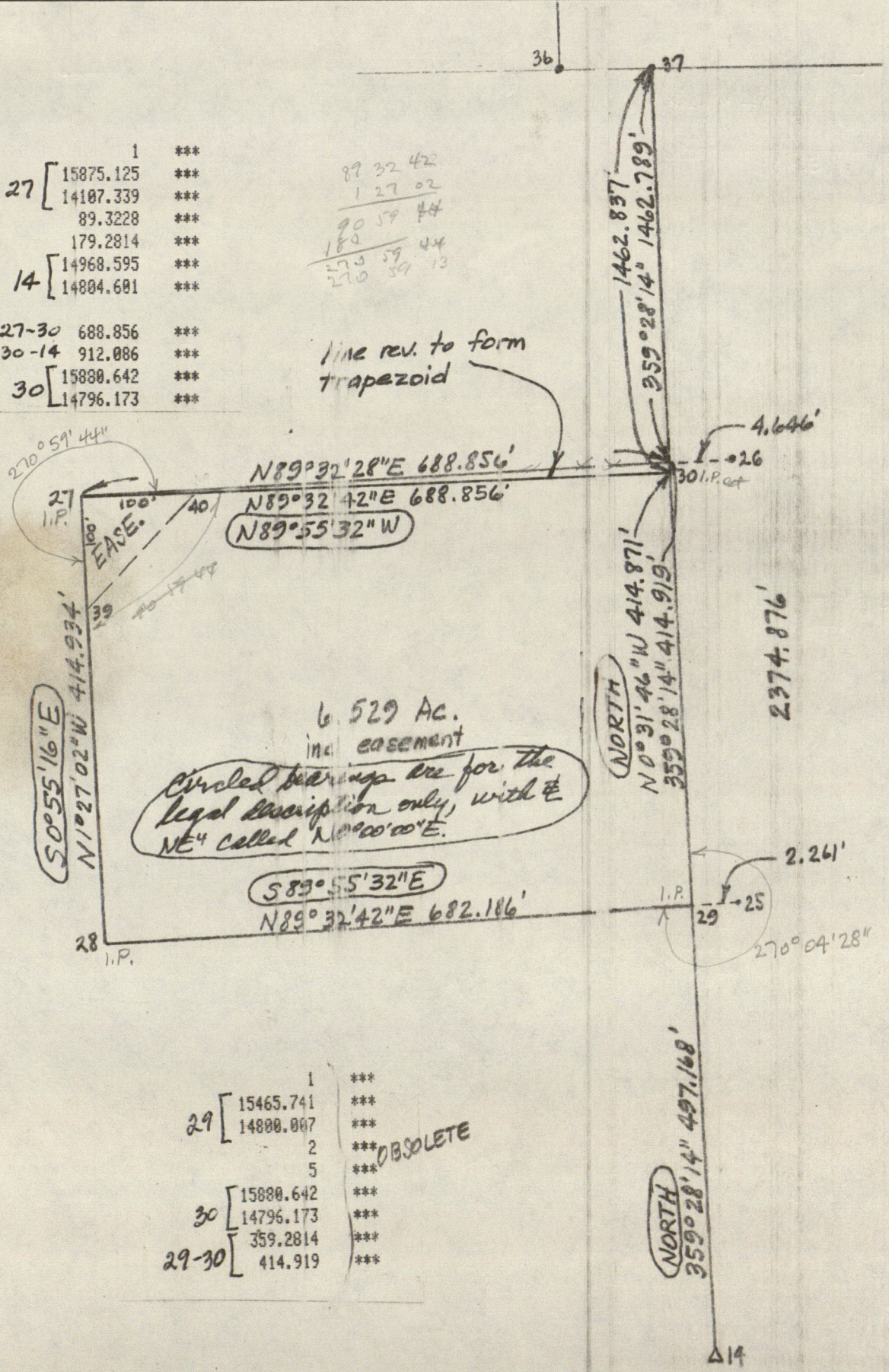
	1	***
36	17343.289	***
	14717.975	***
	3	***
	5	***
15	19998.051	***
	14707.817	***
36-15	359.4651	***
	2654.781	***

C-17, 19, 23


limestone 16x32
Hick 18 N57E81
beech 12 N45W164
C-232
cen E SE 35
18x26
B. oak 24 S71E147
B oak 12 S46¾W164
C-165
Rogers 100. or 180c. 1858
12x14
willow 7 N15E42
Beech 24 S18W69
C-264
reloc. from meas. 16x24
B. walnut 4 N46W 141
Beech 3 S22W 57½
C-137
Johnson ca. 1856 or Rogers
26R#
86
reloc 14x24
C-232
2.75ch.
46.61
(2680.26')
2647.04
33.22
98
(64.68')
cen S SW¼ 15x18
C-137
26.68
C-137
(1760.88')
11x14
C-137
15.70ch. C-137
(1036.20')
17.10 C-137
16x17 Beech 16 S35W87 C-137
26.68 (C-137)
86
.66
51.6
516
56.76
PP
RR spike found & removed
PP
Pipe
N20°W
14.12'
N30 E
42.27'
N 64° E
48.62'
NGE
26.04'
E=Mi. 2-14-NW
15" to top stone; 5/8"x12" IP. set above
2.1'
1'
0.3'
S 65 W
20.54
long I.P.
CS Pipe 3'E.
S53E
26.14
Pipe
10.69ch to stone 18x26
C-137
(593.34')
8.99ch
stone found
5.195ch
(342.87')
1.70
2½' deep - placed stone 9x18x19" on top of it.
wood gate post N30E 14.94'
fence W 24.9'
wood cor. post E 5.75'
12 July 1946 Shattle
1.68¾ by C-219
1056.8'
2655.8'
2½'
1955.43'
(1946)
70.7
25.7'
898.63'
I.P. set 1946
700.37'
Cor. post N 16.2'
" " S50W 20.05'
E gate " S30°E 47.25
Tel pole S73W 90.9.
Shattle 1946
SW cor 1-14-1W
stone (black, on S. side cor. post)

	1	***
27	15875.125	***
	14107.339	***
	89.3228	***
	179.2814	***
14	14968.595	***
	14804.601	***
27-30	688.856	***
30-14	912.086	***
30	15880.642	***
	14796.173	***

89 32 42
1 27 02
90 59 44
180
270 59 44
270 59 13



	1	***
29	15465.741	***
	14800.007	***
	2	*** OBSOLETE
	5	***
30	15880.642	***
	14796.173	***
29-30	359.2814	***
	414.919	***

0241WA

STANLEY M. SHARTLE
REGISTERED PROFESSIONAL ENGINEER
REGISTERED LAND SURVEYOR

SHEET 1 **OF** ____

Job Bowman Est. Date 6-11-84 Hg. ____ Temp. ____

At ____

	Point	Direction	ZA	Observed slope distance	Mean	Hor. distance
2	1	160°00'00"	89 58 58	514.89 .85 .85 .88 .83 .84	.857	514.857
	R.O.	327 27 06	WARNING	.	.	
	3	325 54 44	90 17 57	372.41 .43 .44 .43	.427	372.422
	6	324 13 01	90 26 11	849.01 .01 .03	.017	848.992
				.	.	
3	2	145 54 44		.	.	
	4	90 45 20	91 33 30	140.82 .80 .79 .82	.808	140.756
	5	61 09 24	91 47 58	136.64 .65 .65	.647	136.580
				.	.	
6	2	144 13 01		.	.	
	R.O	359 45 26	LIMIT	. .	.	
				.	.	
	7	0 33 54	90 15 16	965.18 .16 .16	.167	965.159
				.	.	
		DIR		.	.	
11	10	0 00 00		.	.	
	12	87 46 47		.	.	6.01'
				.	.	
8	7	0 00 00	89 24 52	1834.90 .89 .90	.897	1834.784
	R.O	179 09 13 bolt head		.	.	
	9	178 44 06	90 24 00	1728.74 .70 .74	.727	1728.685
	13	174 05 50	91 51 24	254.28 .28	.28	254.147
				.	.	
7	6	0 00 00		.	.	
	R.O.	0 37 24 E window		.	.	
	14	341 51 54	91 10 38	283.81 .82 81	.813	283.753
	8	161 43 12		.	.	
				.	.	
9	8	0 00 00		.	.	
	R.O	8 30 54 NE cor cornice		.	.	
7' W.	15	181 31 53 *	90 46 28	1183.57 .59 .58	.58	1183.472
	10	181 31 42	90 19 48	2278.09 .06 .07	.073	2278.035
		* See p. 3				

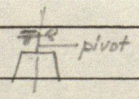
180
4 | 237 92
59 23

STANLEY M. SHARTLE
REGISTERED PROFESSIONAL ENGINEER
REGISTERED LAND SURVEYOR

SHEET 2 OF ____

Job Bowman Est. Date 6-12-84 Hg. ____ Temp. ____

At ____

	Point	Direction	ZA	Observed slope distance	Mean	Hor. distance
10	9	0°00'00		.	.	
	11	180 45 10	90 12 50	1567.39 .39 .38	.387	1567.376
				.	.	
17	16	0 00 00	90 08 34	1476.04 .02	.03	1476.025
	18	172 36 19	90 59 40	1176.63 .65	.64	1176.463
				.	.	
	13-18 = 30.9'			.	.	
20	21	0 00 00	89 11 54	7778.37 .38	.375	7777.614
	19	80 59 32	90 05 35	1304.59 .57	.58	1304.578
	4	323 57 49 / ~~80 59 27~~ (USE)		.	.	
				.	.	
21	22	0 00 00	90 00 00	2625.79 .78 .80	.79	2625.790
	20	88 50 17 20		.	.	
	4	355 21 05 / ~~88 50 16~~ (USE 17")		.	.	
				.	.	
	6	359 14 24	90 28 19	558.41 .42 .40	.41	558.391
	3	7 08 03	90 05 40	82.46 .46 .44	.453	82.453
	2	179 08 12+	89 47 27	290.59 .58 .59	.587	290.585
				.	.	
22	21	0 00 00		.	.	
	23	174 28 14		.	.	
	R.O.	177 25 18	airplane pivot	stop conc. post 	.	
				.	.	
23	22	0 00 00	89 58 05	979.19 .21 .22 .22	.21	979.210
	R.O.	131 25 36	barn roof gable end		.	
	R.O.	204 31 25	airplane pivot	.	.	
	8	298 28 ~~01~~ 04 02	90 43 52	1295 39 .37 .37	.377	1295.272
	24	119 16 ~~21 27~~ 22 ~~20 24~~	90 12 20	1418.82 .84 .86 .87 .87 .87	.868	1418.859
	16	119 26 ~~42 39~~ 39 ~~37 39~~	90 15 27	1362.33 .32 .32	.323	1362.309
				.	.	
				.	.	
				.	.	

SEEING BAD

STANLEY M. SHARTLE
REGISTERED PROFESSIONAL ENGINEER
REGISTERED LAND SURVEYOR

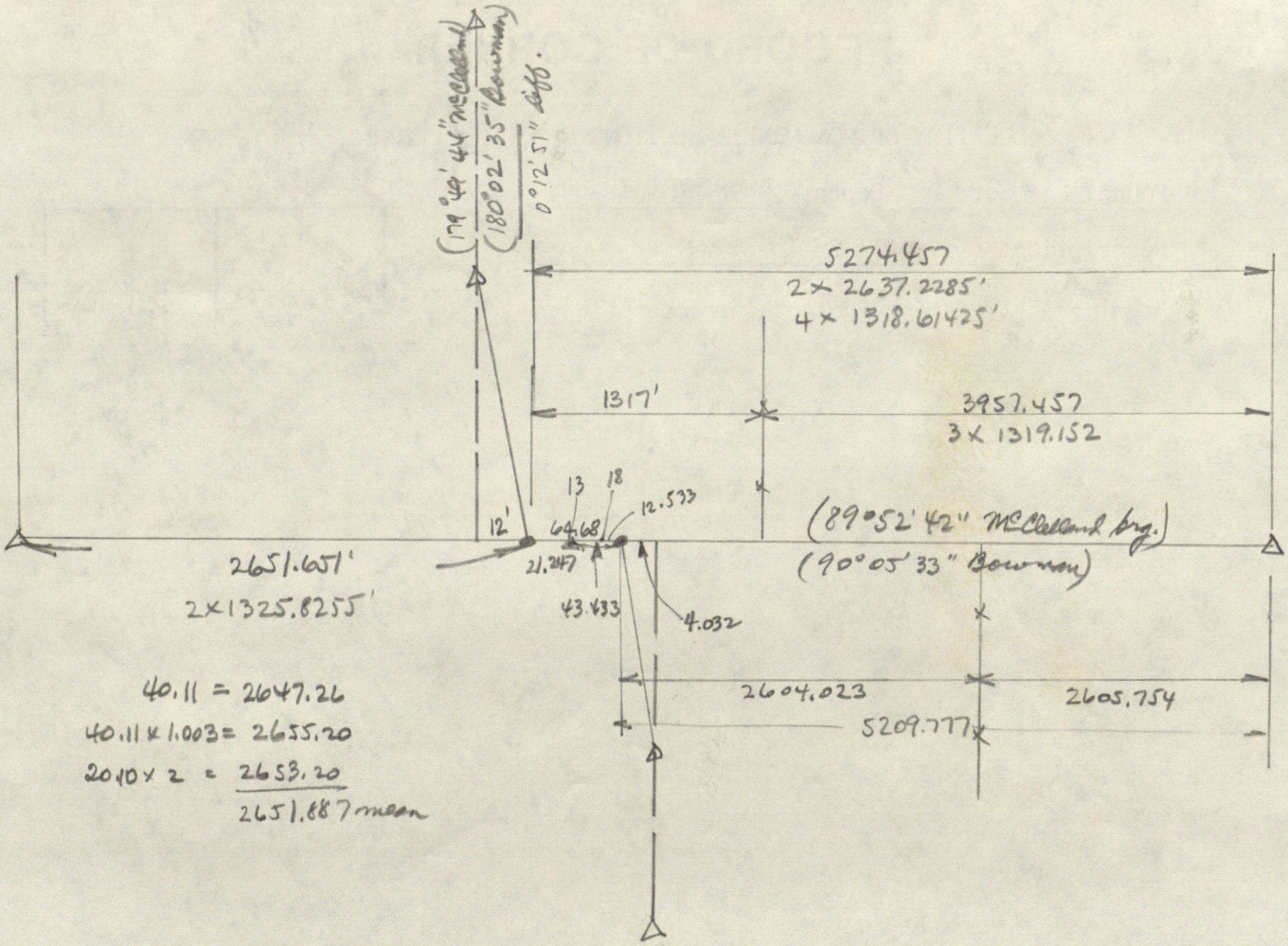
SHEET 3 OF ____

Job Bowman Est. Date 6-17-84 Hg. ____ Temp. ____

At ____

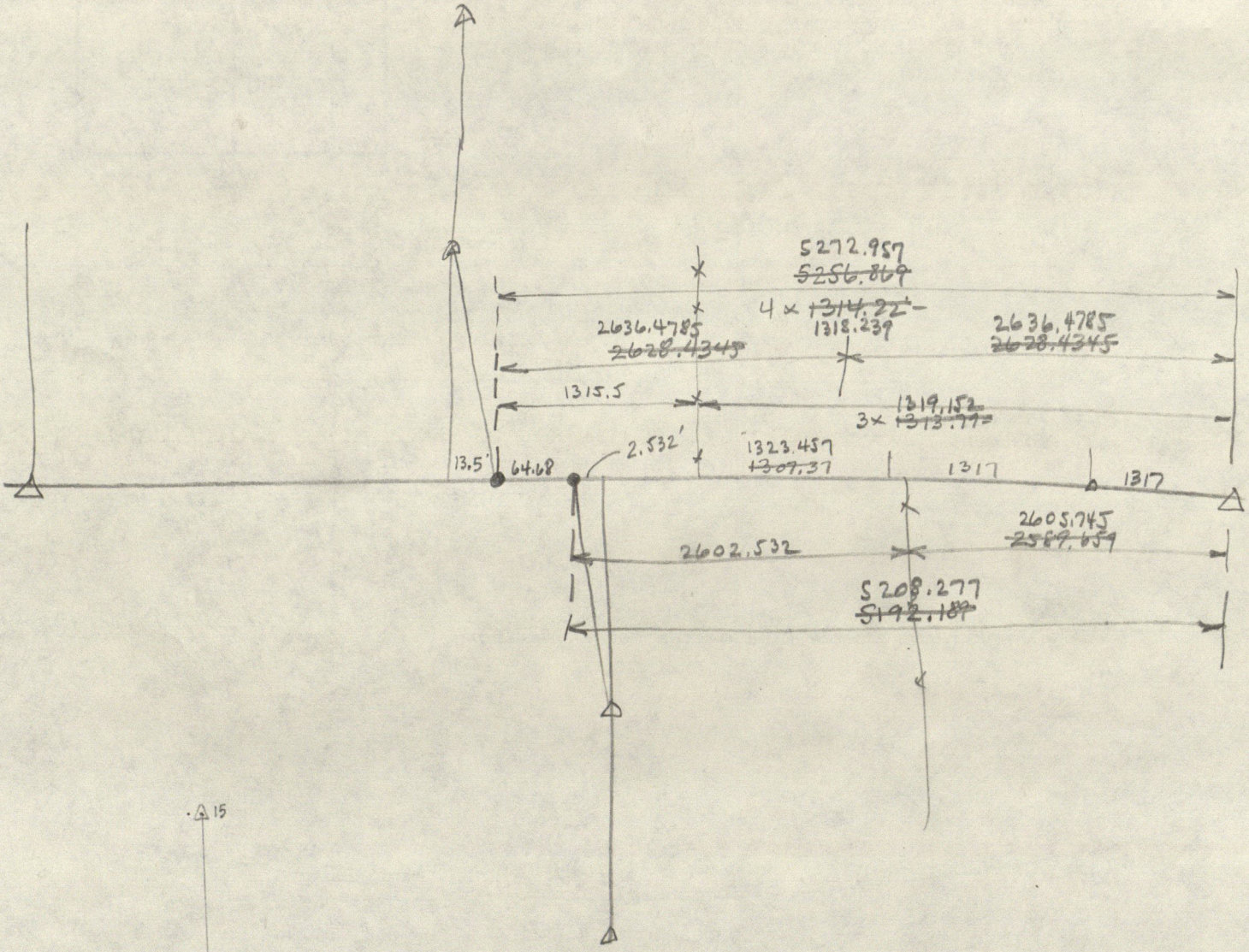
SEEING BAD

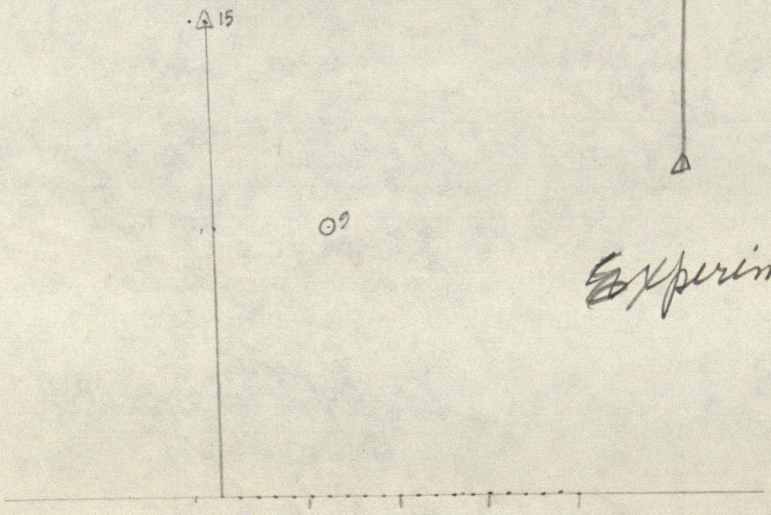
	Point	Direction	ZA	Observed slope distance	Mean	Hor. distance
	6	0°00'00"		.	.	
	28	89 22 ~~27~~ 28 29	90 22 01	714.77 .78 .77	.773	714.758
at 7	25	162 37 03	91 04 39	213.47 .46	.465	213.427
	26	162 22 46	90 42 34	628.40 .39 .39	.393	628.345
	R.O.	13 54 46 ℄ garage door		.	.	
				.	.	
8	7	0 00 00		.	.	
	23	95 40 39 01 58 01 USE 00"		.	.	
				.	.	
27	28	0 00 00	90 50 58	414.98 .98 .98	.98	414.934
	26	270 59 13	90 06 50	693.51 .49 .51	.503	693.502
				.	.	
9	8	0 00 00		.	.	
	R.O.	8 30 24 → CORNICE 8 31 05 → BOARD	reobserved		.	
	10	181 31 21		.	.	
				.	.	
10	9	0 00 00		.	.	
	R.O	181 21 42	STOP	.	.	
	33	180 46 39	90 17 26	1567.62 .62 .62	.62	1567.600
				.	.	
33	10	0 00 00		.	.	
	12	86 03 49		.	.	6.69



40.11 = 2647.26
40.11 × 1.003 = 2655.20
20.10 × 2 = 2653.20
2651.887 mean

Experimental – not used





Experimental – not used

~~137/353~~ Folds

~~132/6~~ ?

147/438-9 ?

119/242

103/302

101/538 549

4-5-79 Bowman 258/386 S 490' of SE¼

~~2-2-71 Lynn 216/63~~

~~5-2-73 Daugherty 227/31~~

2704.331

0 11 34
12
0 11 46

270 49 15
270 49 18

99/52 Frank W. Martin Com. to Dell RE of Harry C. Hammond Cause No. 7282 # CC.
to Jas. W. Buckingham 19 Feb. 1906

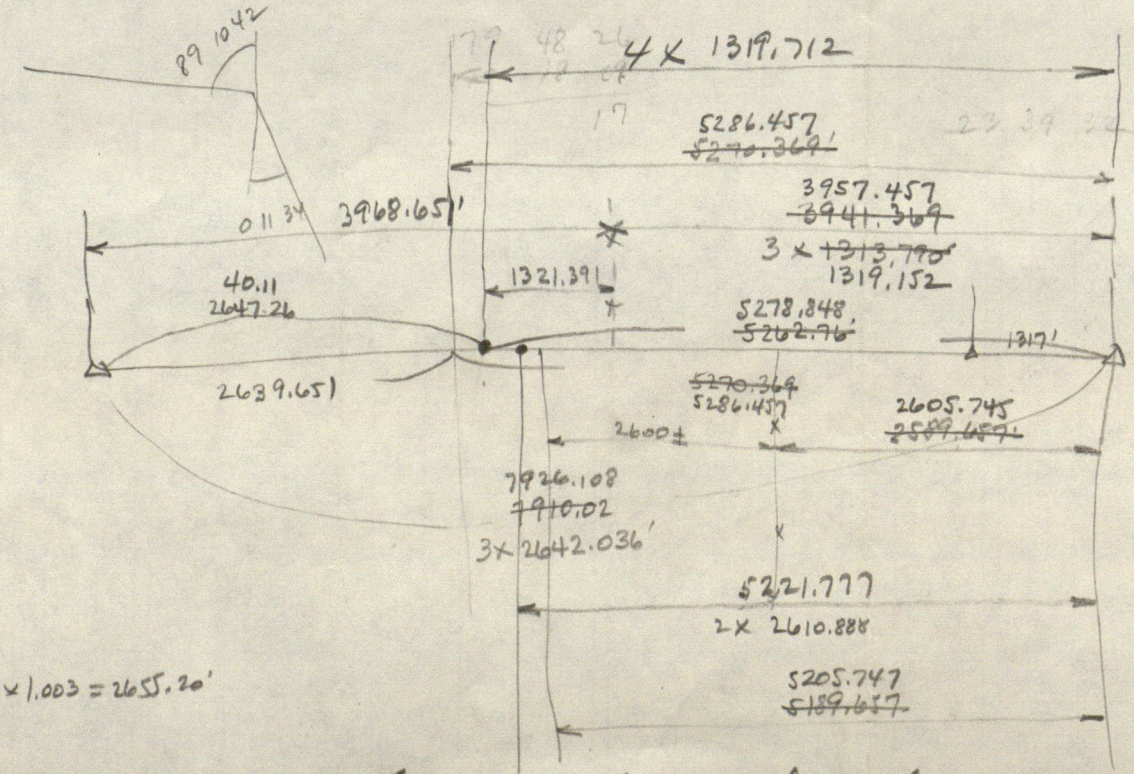
70/2 Geo. W. Hammond to John Hammond S½SE¼ 35 20 Aug. 1889

78/425 to Hammond (oc)

2-19

179 48 09
0 11 34
179 59 43
17

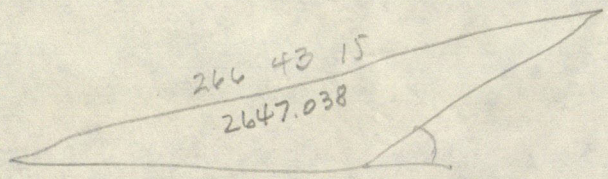
270 49 01
89 10 49 W

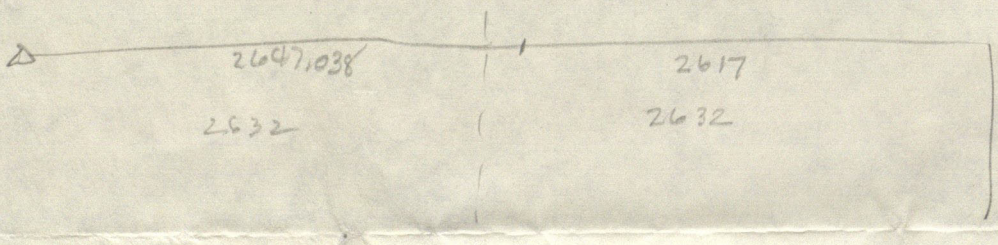


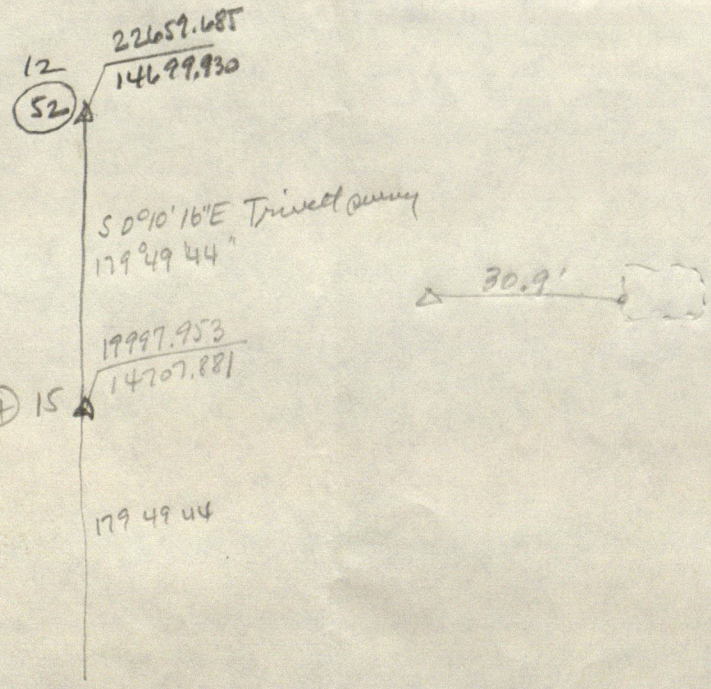
40.11 × 1.003 = 2655.20'

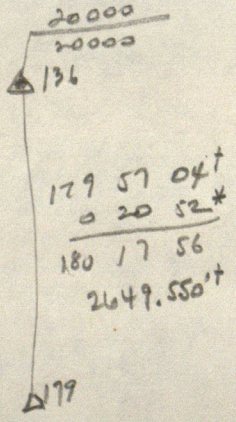
Experimental - not used

47
17
-2 64
32









*p.7 Carlin survey calc.
†p 10 " " "

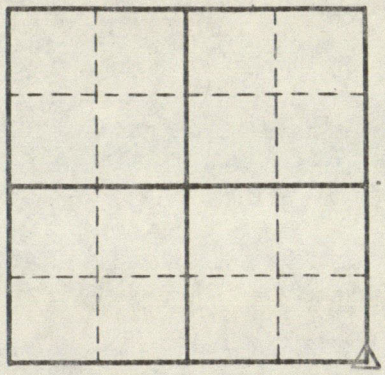
STANLEY M. SHARTLE

LOCATION OF MONUMENT: SECTION 26, T. 5 N., R. 1 W.

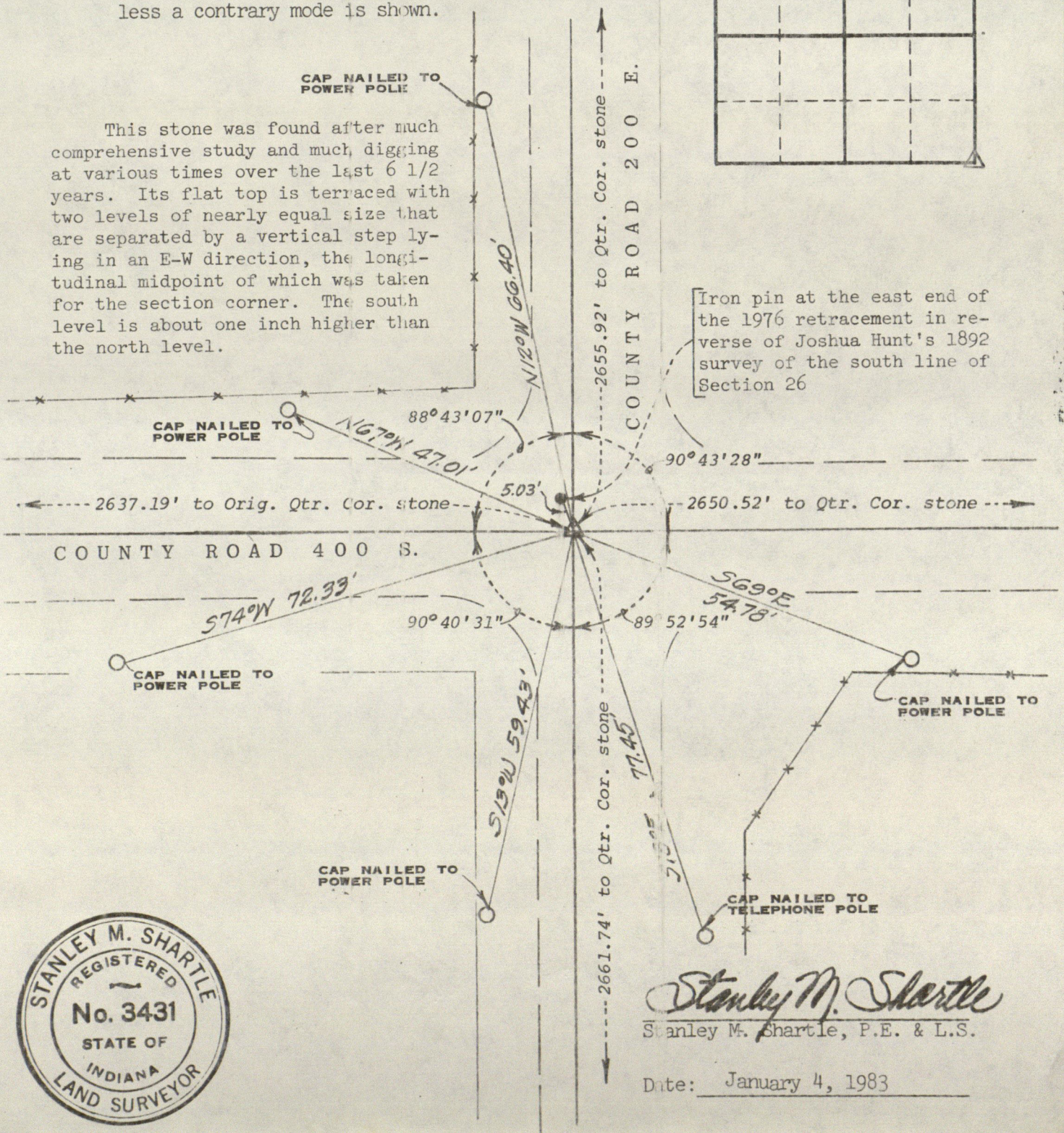
Found: ✓ Set: ___ Depth: 27 3/4 inches to stone

Description: Railroad spike set above stone (see description below)

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



This stone was found after much comprehensive study and much digging at various times over the last 6 1/2 years. Its flat top is terraced with two levels of nearly equal size that are separated by a vertical step lying in an E-W direction, the longitudinal midpoint of which was taken for the section corner. The south level is about one inch higher than the north level.



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

Stanley M. Shartle

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

Date: January 4, 1983

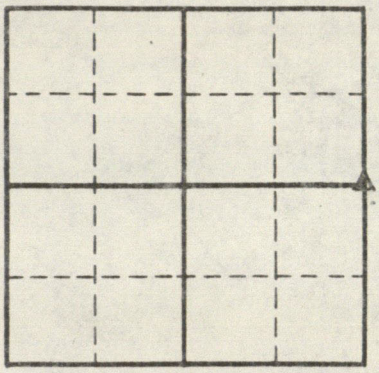
STANLEY M. SHARTLE

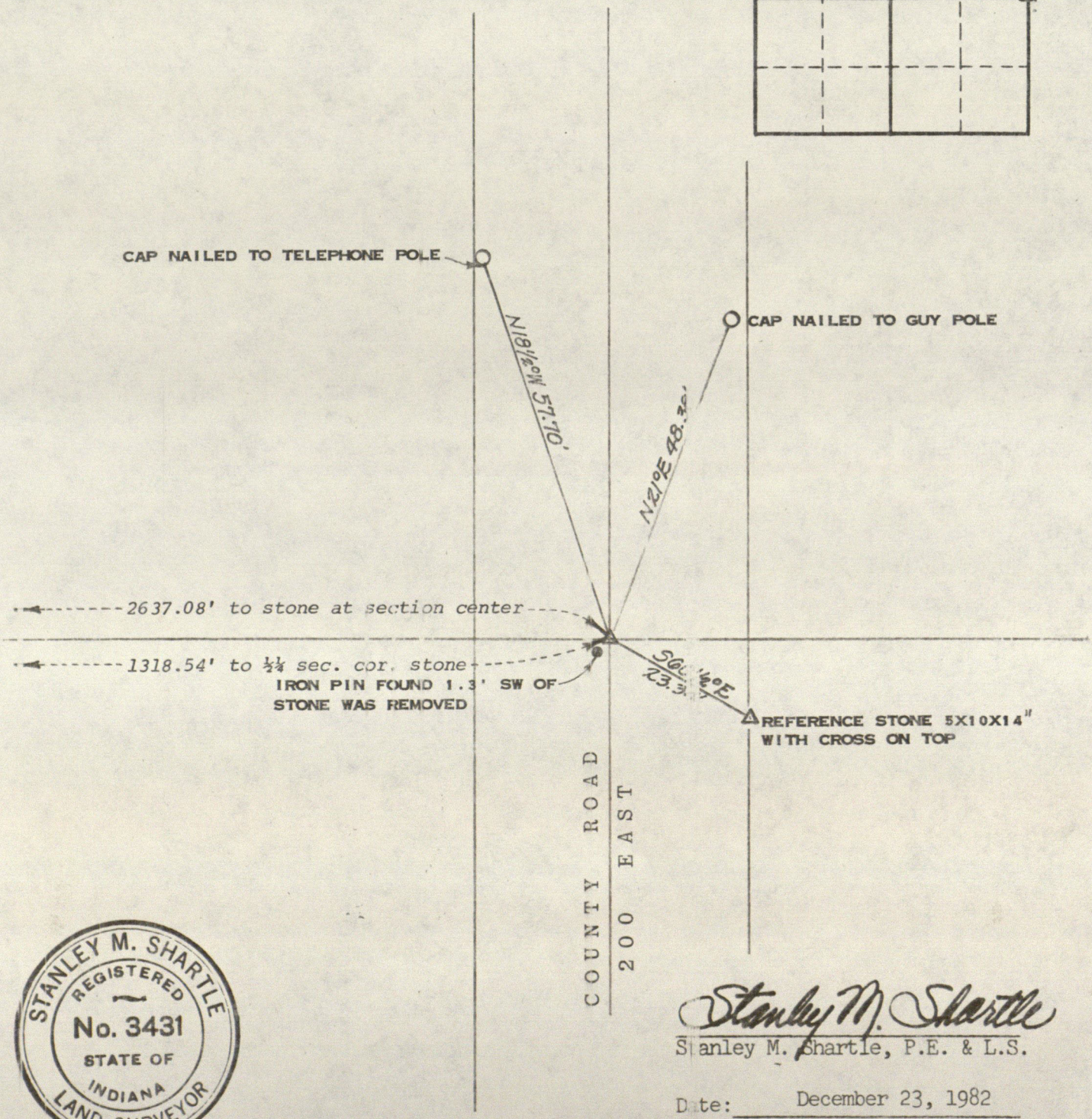
LOCATION OF MONUMENT: SECTION 35, T. 5 N., R. 1 W.

Found: ✓ Set: ___ Depth: 12 inches

Description: stone with railroad spike set above

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



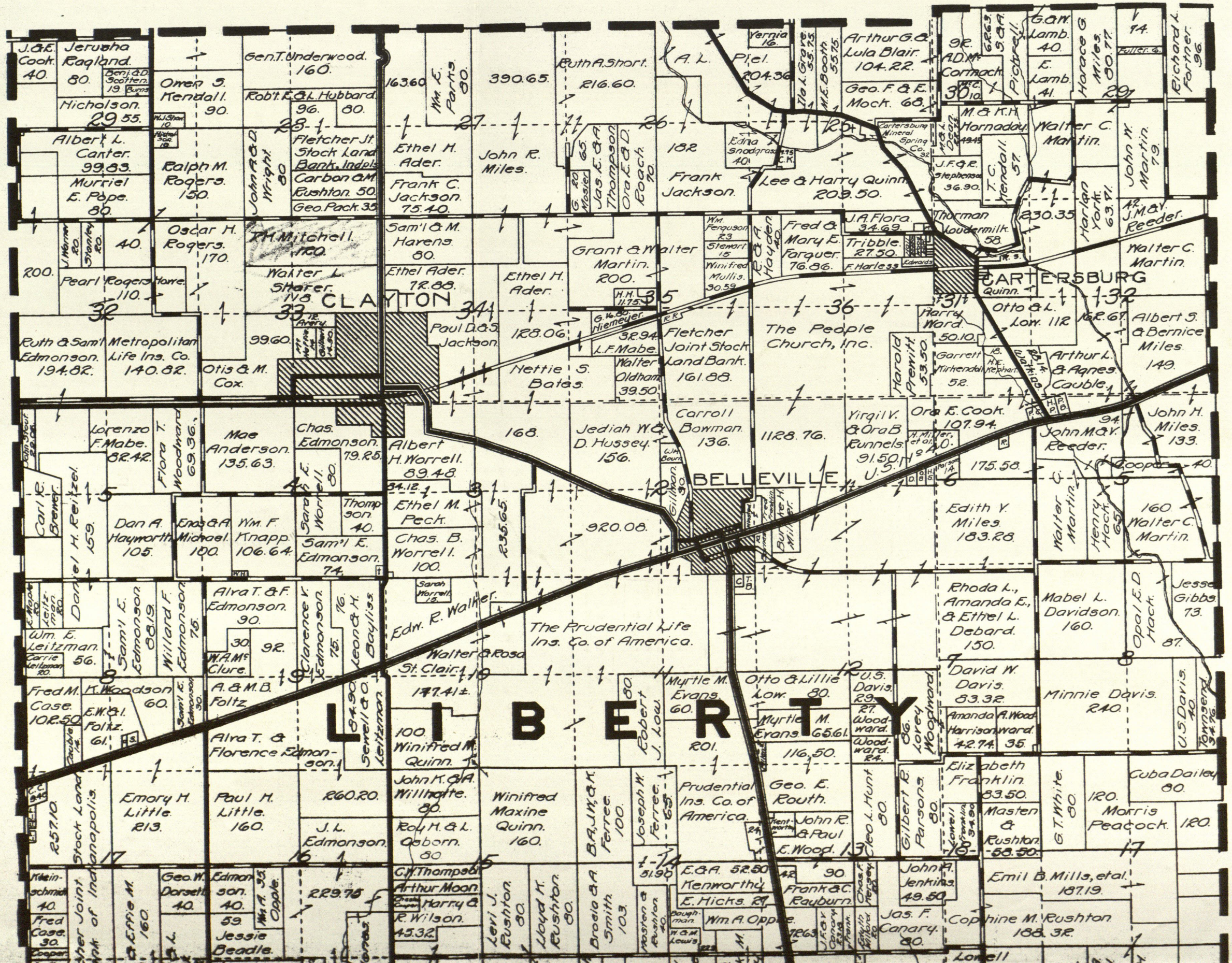


STANLEY M. SHARTLE
REGISTERED
No. 3431
STATE OF
INDIANA
LAND SURVEYOR

Stanley M. Shartle

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

Date: December 23, 1982


CLAYTON
CARTERSBURG
BELLEVILLE
LIBERTY
J.&E. Cook. 40.
Jerusha Ragland. 80.
Benj.&D. Scotten. 19.
Burns
Nicholson. 29 55.
Gen.T. Underwood. 160.
Owen S. Kendall. 90.
Rob't.E.&L. Hubbard. 96. 80.
Albert L. Carter. 99.83.
Murriel E. Pope. 80.
Ralph M. Rogers. 150.
John A.&D. Wright. 80
Fletcher Jt. Stock Land Bank, Indpls
Carbon&M. Rushton. 50.
Geo. Pack. 35
Oscar H. Rogers. 170.
R.H. Mitchell. 170.
Walter L. Shafer. 118.
Pearl Rogers Horre. 110.
Ruth&Sam'l Edmonson. 194.82.
Metropolitan Life Ins. Co. 140.82.
Otis&M. Cox.
99.60.
Lorenzo F. Mabe. 82.42.
Flora T. Woodward. 69.36.
Mae Anderson. 135.63.
Chas. Edmonson. 79.25.
Carl R. Brewer.
Daniel H. Reitzel. 159.
Dan A. Haymarth. 105.
Enos&A. Michael. 100.
Wm. F. Knapp. 106.64.
Sam'l E. Edmonson. 74.
Thompson. 40.
Alva T.&F. Edmonson. 90.
Clarence V. Edmonson. 75.
Leon&H. Bayliss
Wm. E. Leitzman. 56.
Sam'l E. Edmonson. 88.19.
Willard F. Edmonson. 75.
Fred M. Case. 102.50
K. Woodson 60.
E.W.&I. Foltz. 61.
A.&M.B. Foltz.
Alva T.& Florence Edmonson.
Emory H. Little. 213.
Paul H. Little. 160.
260.20.
J.L. Edmonson.
Stock Land Bank of Indianapolis.
Geo. W. Dorsett. 40.
Edmonson. 40.
229.75
Jessie Beadle.
Effie M. 160
Fred Case. 30.
Ethel M. Peck.
Chas. B. Worrell. 100.
Edw. R. Walker.
Walter&Rosa St. Clair. 177.41±.
Winifred M. Quinn.
John K.&A. Willhoite. 80.
Roy H.&L. Osborn. 80
Winifred Maxine Quinn. 160.
C.H. Thompson
Arthur Moon.
Harry&R. Wilson. 45.32.
Levi J. Rushton. 80.
Lloyd H. Rushton. 80.
Brodie&A. Smith. 103.
Rushton&Rushton. 40.
Wm. E. Parts. 80.
390.65.
John R. Miles.
Frank C. Jackson. 75.40.
Sam'l&M. Harens. 80.
Ethel Ader. 72.88.
Ethel H. Ader.
Paul D.&S. Jackson.
128.06.
Hettie S. Bates.
Jediah W.&D. Hussey. 156.
168.
235.65
920.08.
The Prudential Life Ins. Co. of America.
Ruth A. Short. 216.60.
Jas.E.&A. Thompson.
Ora E.&D. Roach. 90.
Grant&Walter Martin. 200.
Walter Oldham. 39.50.
Fletcher Joint Stock Land Bank. 161.88.
Carroll Bowman. 136.
Frank Jackson.
Edna Snodgrass 40.
Lee&Harry Quinn. 209.50.
Fred&Mary E. Farquer. 76.86.
J.A. Flora. 34.69.
Tribble. 27.50.
The People Church, Inc.
Harry Ward. 50.10.
Garrett Tirhendal 52.
Harold Prewitt. 53.50
Otto&L. Low. 112
Arthur L.&Agnes Cauble.
Albert S.&Bernice Miles. 149.
Virgil V.&Ora B. Runnels. 91.50.
Ora E. Cook. 107.94.
John M.&V. Reeder.
John H. Miles. 133.
175.58.
Edith Y. Miles. 183.28.
Rhoda L., Amanda E., & Ethel L. Debard. 150.
Mabel L. Davidson. 160.
Opal E.D. Hack. 87.
Jesse Gibbs. 73.
Minnie Davis. 240.
David W. Davis. 83.32.
Amanda Harrison 42.74.
A. Woodward. 35.
Myrtle M. Evans. 60.
Otto&Lillie Low. 80.
U.S. Davis. 29.
Woodward. 24.
Myrtle M. Evans. 65.61.
116.50.
Prudential Ins. Co. of America.
Geo. E. Routh.
John R.&Paul E. Wood.
Leo L. Hunt 80.
Gilbert E. Parsons. 80.
Elizabeth Franklin. 83.50.
Masten&Rushton. 58.50.
G.T. White. 80
120. Morris Peacock.
Cuba Dailey 80.
Emil B. Mills, et al. 187.19.
Cophine M. Rushton 188.32.
Robert J. Low.
Winifred M. Quinn. 201.
Joseph W. Ferree. 63.
B.A.,J.W.&K. Ferree. 100.
E.&A. 52.50 Kenworthy
E. Hicks. 29.
Wm. A. Oppie. 72.63
Frank&C. Rayburn.
John H. Jenkins. 49.50
Jas. F. Canary. 80.
Lorell
Vernia 16.
Piel. 204.36
Tho. L. Grave 55.75
M.E. Booth. 55.75
Arthur G.&Lula Blair. 104.22.
Geo. F.&E. Mock. 68.
Cartersburg Mineral Spring Co.
Thorman Loudermilk. 58.
230.35
Harlan York. 63.91.
Richard L. Fortner. 96.
G.&W. Lamb. 40.
E. Lamb. 41.
Horace G. Miles. 80.77.
Pickrell.
A.D.M. Cormack.
M.&K.H. Hornaday.
Walter C. Martin.
John W. Martin. 79.
T.C. Kendall. 57.
J.F.&R. Stephens. 36.90.
J.M.&V. Reeder.
Walter C. Martin.
Otto&L. Low. 112
Harry Ward. 50.10.
Garrett Tirhendal 52.
Arthur L.&Agnes Cauble.
Albert S.&Bernice Miles. 149.
Orra E. Cook. 107.94.
John M.&V. Reeder.
John H. Miles. 133.
175.58.
Edith Y. Miles. 183.28.
Walter C. Martin.
Henry Hack. 65.
160. Walter C. Martin.
Rhoda L., Amanda E., & Ethel L. Debard. 150.
Mabel L. Davidson. 160.
Opal E.D. Hack. 87.
Jesse Gibbs. 73.
David W. Davis. 83.32.
Minnie Davis. 240.
U.S. Davis. 40.
Townsend. 34.76.
Elizabeth Franklin. 83.50.
Masten&Rushton. 58.50.
G.T. White. 80
120. Morris Peacock.
Cuba Dailey 80.
Emil B. Mills, et al. 187.19.
Cophine M. Rushton 188.32.
Lorell

STANLEY M. SHARTLE
REGISTERED PROFESSIONAL ENGINEER
REGISTERED LAND SURVEYOR
R. R. 1, BOX 33
STILESVILLE, IND. 46180

PHONE 317-539-6225

June 26, 1984

Mr. Mike Bowman
310 West Jessup Road
Plainfield, Indiana 46168

RE: Parting off 6.53 acres from the Bowman land

Dear Mike:

Here are copies of the plat and legal descriptions of the 6.53 acres and the proposed easement, together with my bill.

Because of the several unexpected difficulties encountered, the cost is much higher than anticipated. It would have been much higher yet, but I was able to persuade Mr. Al Huntsman, County Surveyor, to include the two missing section corners in his program for restoration. He is paying for more than 9 hours of field time and for all the drafting work for the corner stone plats (copies of which are included herewith for your records). Also, Mike, because of your help in the field, several more hours of work were saved. If Jones and I had been without your help we could not have done the job nearly so quickly. You and I did all we could to do an accurate survey in the shortest time possible.

If you have any questions or need anything else, just call me.

Sincerely,

Stan