Road. 29

Liberty - Monroe - Jefferson Twp.

See Book 511 Page
for 1929 Survey.

Oct. 18. 1939 - Staked 60' - 30' Rt. L. from ℄.

4+53

2+50

1+00 N/W Posts 25' from ℄

1345

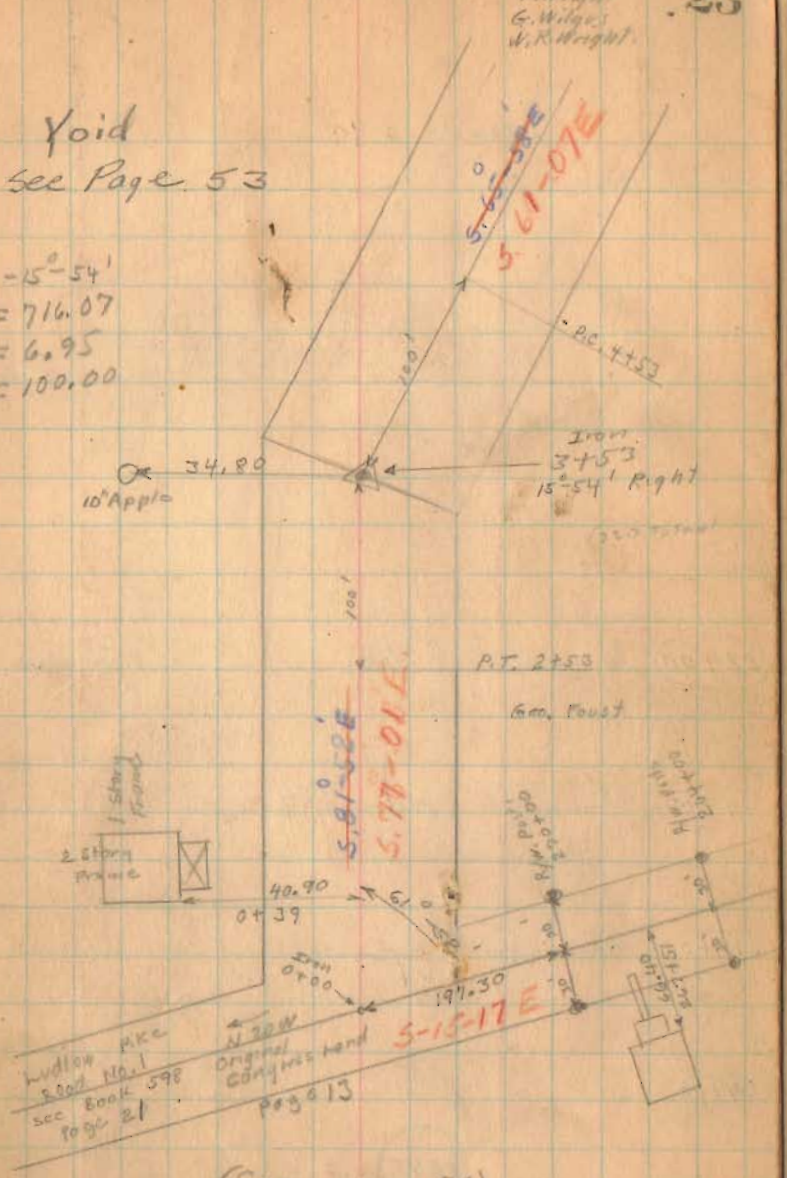
INDEXED ON MAP

Nov. 12, 1937 -
F. Wright
G. Wilgus
W. R. Wright

Void

See Page 53

Δ - 15°-54'
R = 716.07
E = 6.95
T = 100.00



(See page 53)

Road. 29

(22+00) Monuments (Hubs Set)

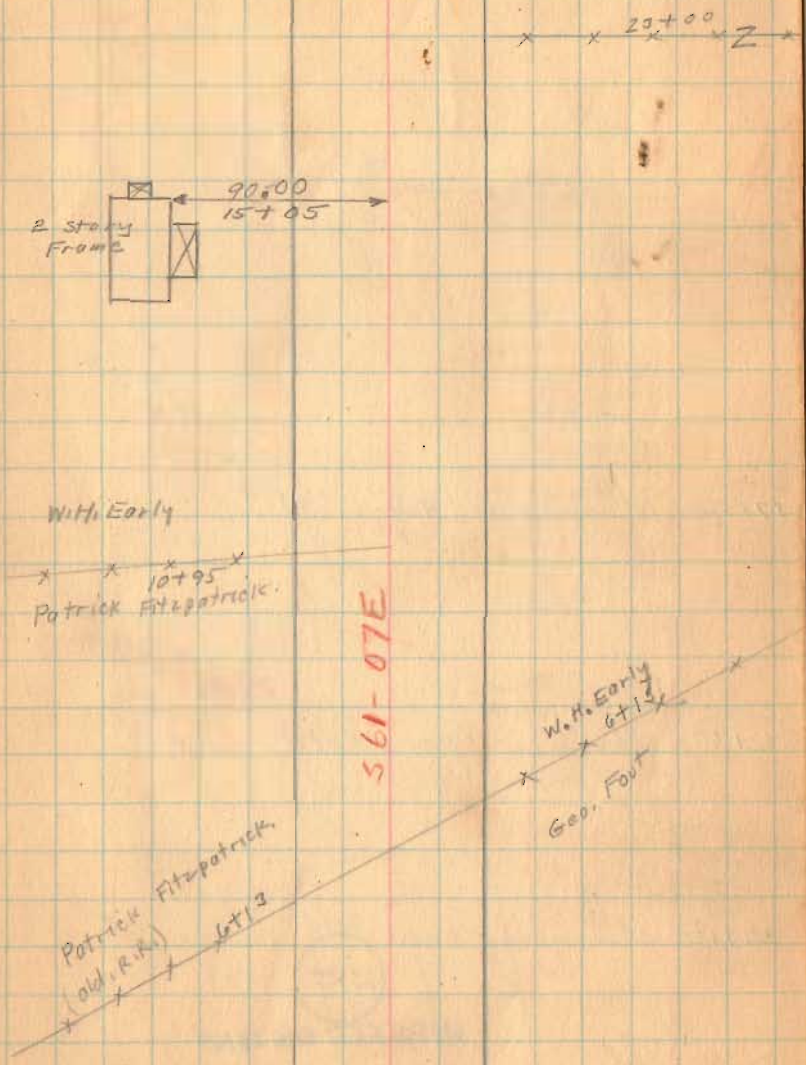
(17+00) Monuments (Hubs Set)

(12+00) Monuments (Hubs set)

~~7+00~~

1345

INDEXED ON MAP



Road 29

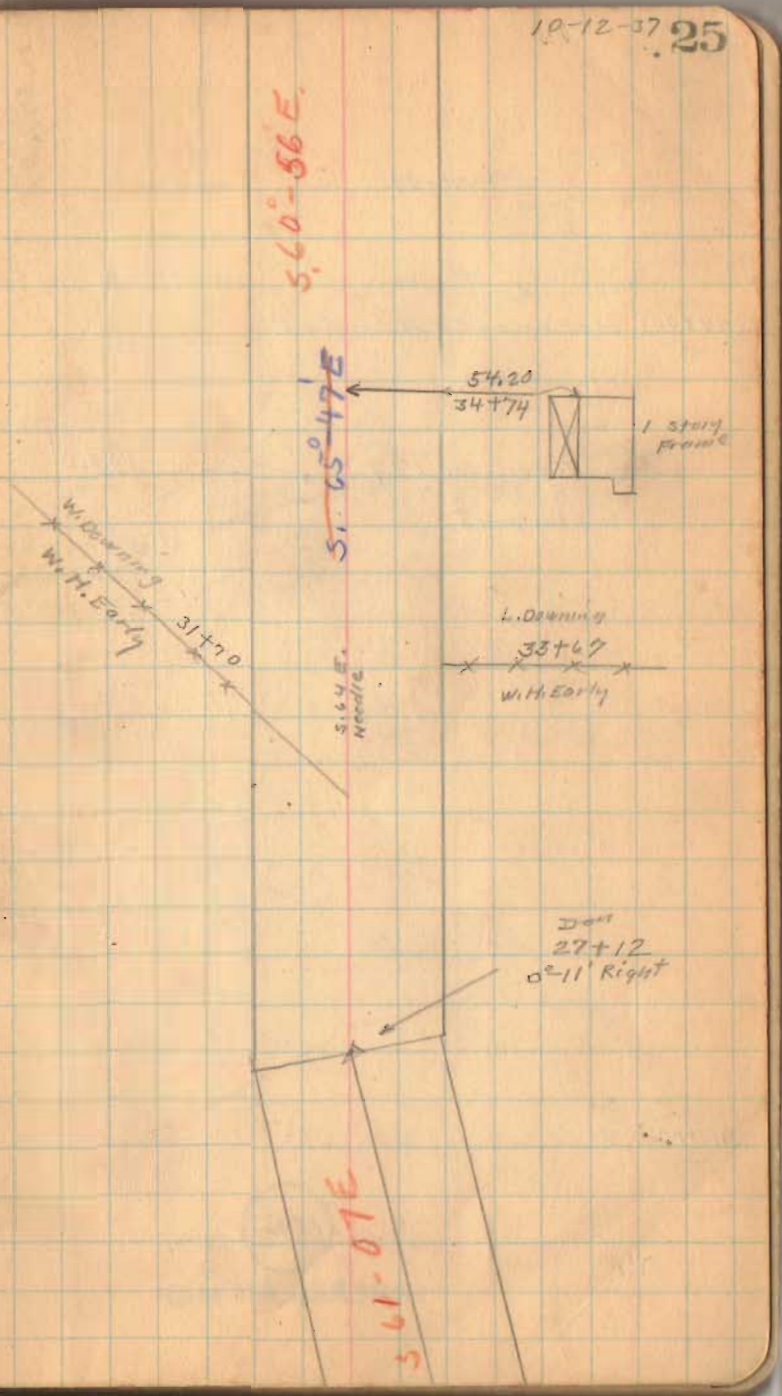
37+00 Monuments (Hubs Set)

32+50 Monuments (Hubs Set.)

27+12 Monuments (Hubs Set.)

1345

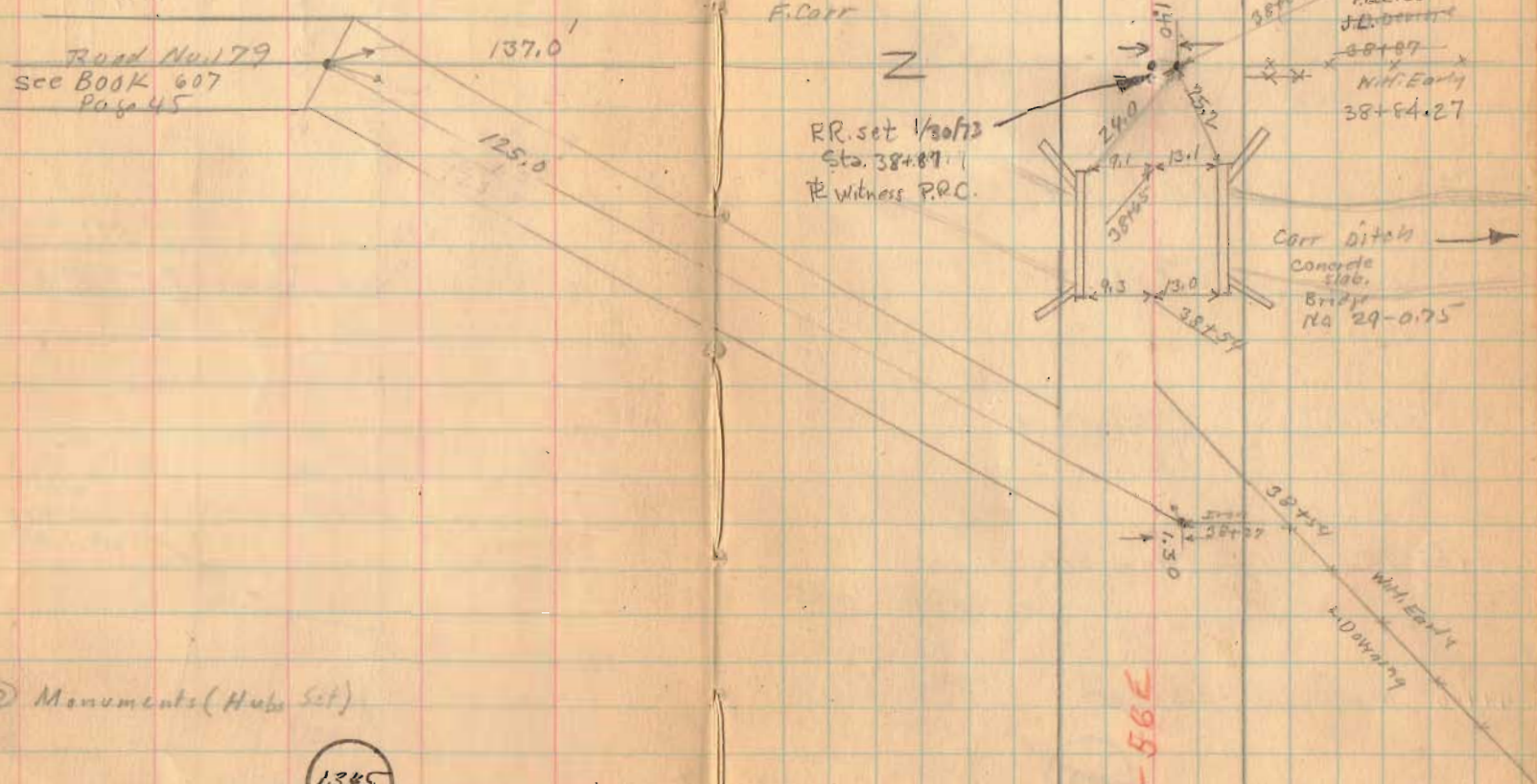
INDEXED ON MAP



10-12-37

Road. 29

(44+00) Monuments (Hubs Set)



(40+00) Monuments (Hubs Set)

1345

INDEXED ON MAP

Road 29

67+75 Monuments (Hubs Set)

63+00 Monuments (Hubs Set)

58+25 Monuments (Hubs Set.

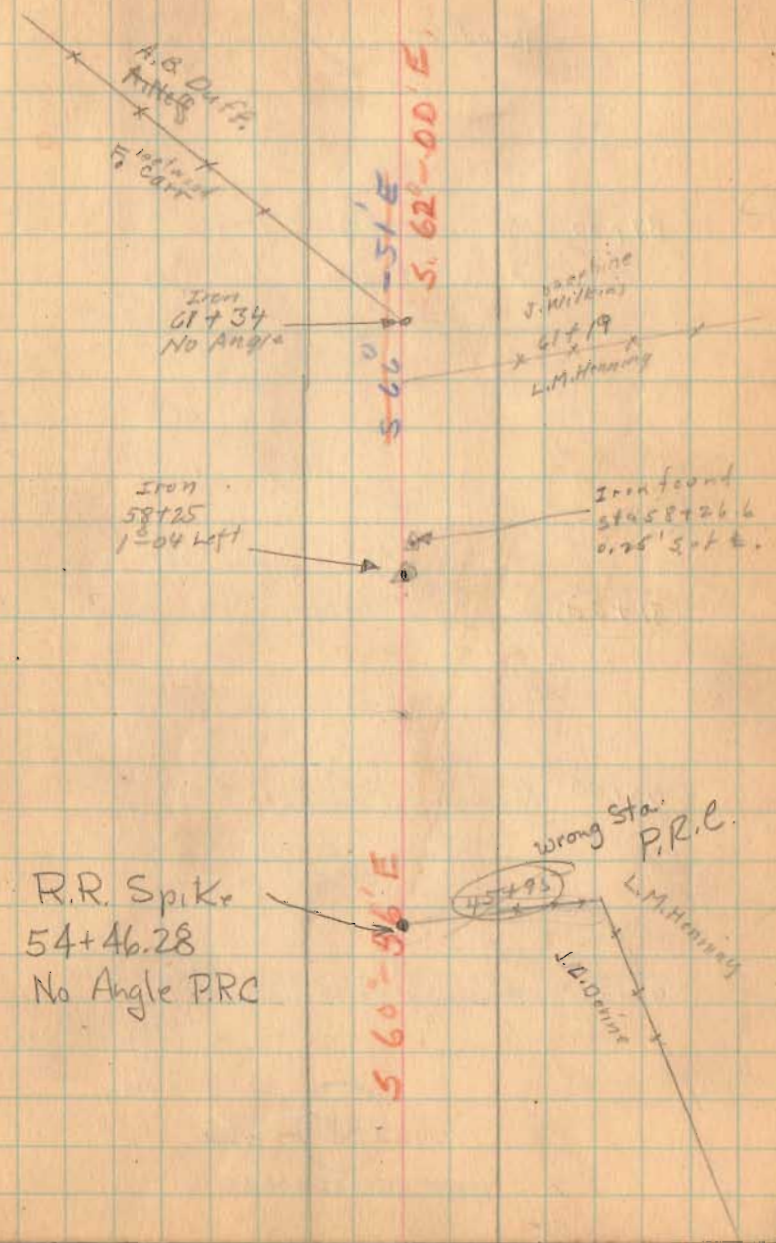
55+00 Monuments (Hubs Set

49+00 Monuments (Hubs Set)

1345

INDEXED ON MAP

Nov. 15-1939
Cloudy
F. Wright
G. Wilgus
W. R. Wright



Road 29

87+00 Monuments (Hubs Set)

85+00 Monuments (Hubs Set)

81+00 Monuments (Hubs Set) Note:- Sta. 70+00 to 70+14 — 8" C.C.C. N. S. & E.

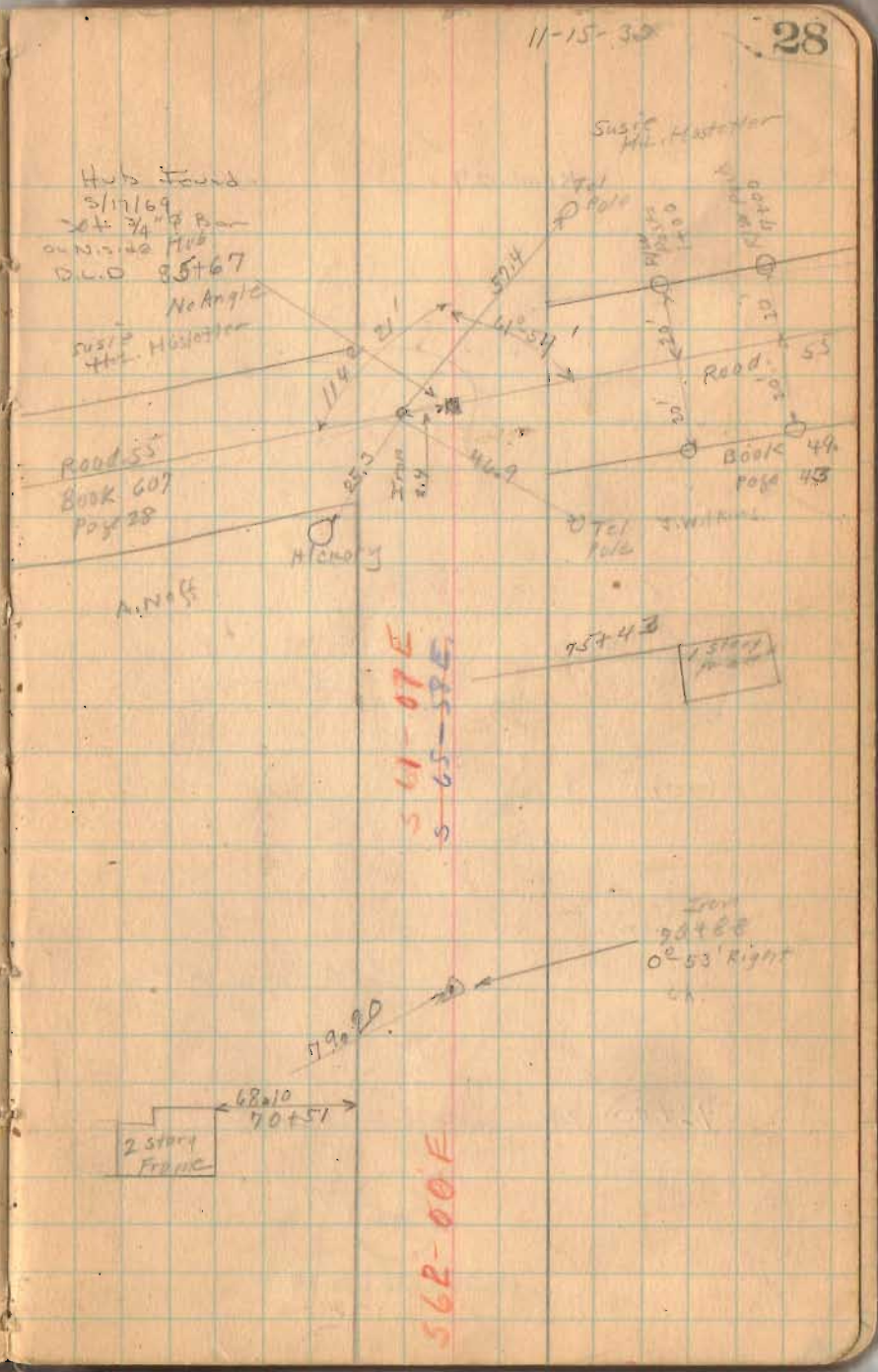
76+00 Monuments (Hubs Set)

71+00 Monuments (Hubs Set)

1345

INDEXED ON MAP

11-15-39



Road 29

95+00

94+00

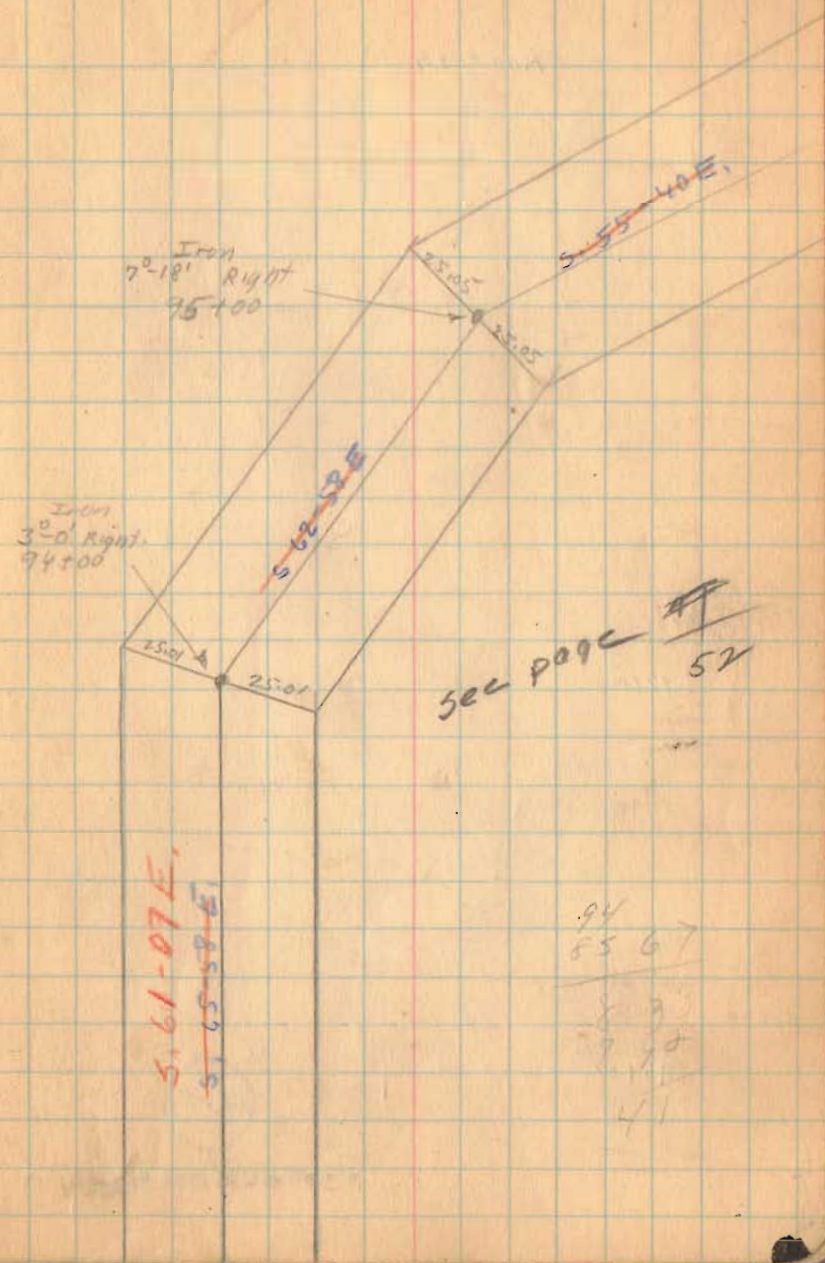
See Page 52

92+00 Monuments (Hubs Set)

1345

INDEXED ON MAP

11-15-35



See page 52

94
85 67

Road. 29

~~97+00~~

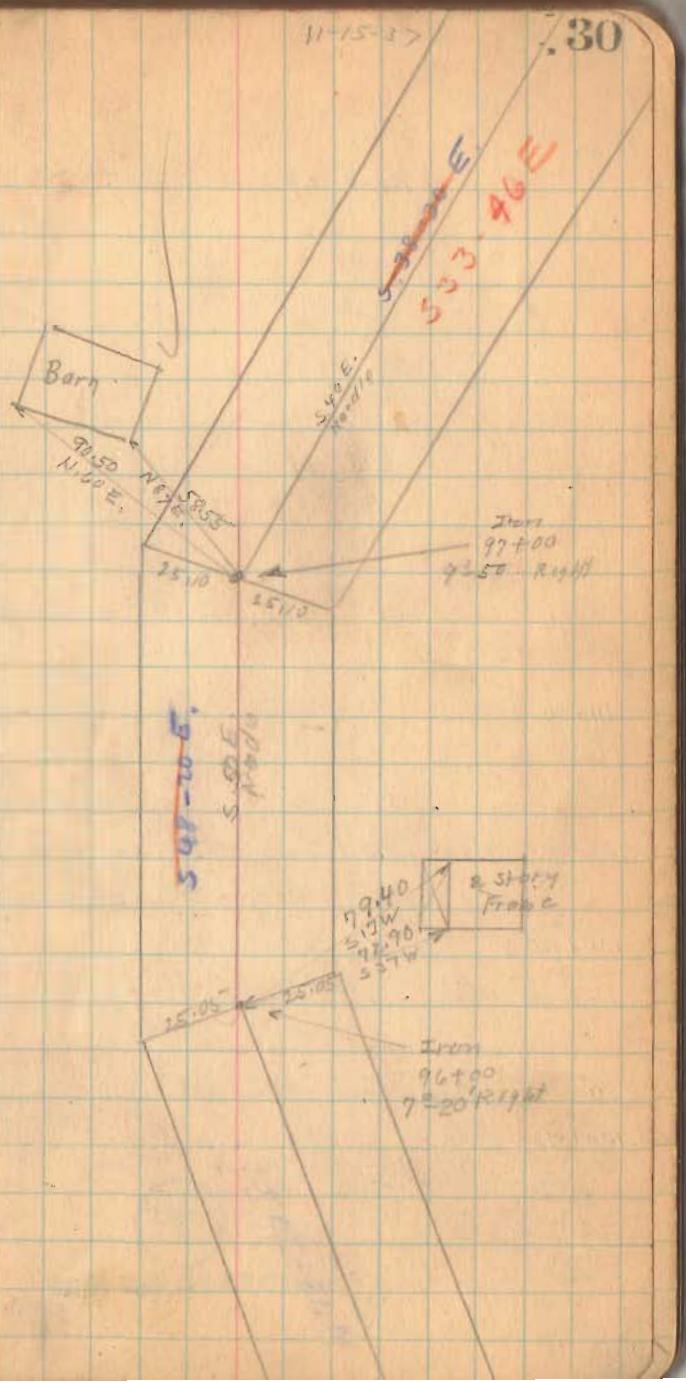
~~96+00 Left Curb~~

6345

INDEXED ON MAP

11-15-37

30



Road. 29

~~111+00~~

108+00 Monuments (Hubs Set) end of Project.

~~100+00~~

103+17 Monuments (Hubs Set)

100+02 Twp Lines Mon. Set

~~100+00~~

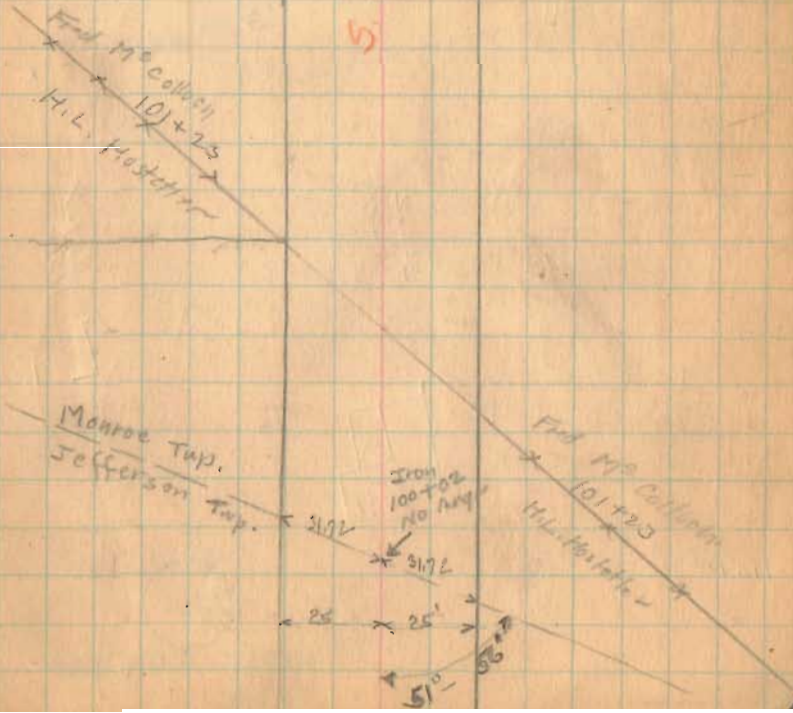
1345

INDEXED ON MAP

11-15-37

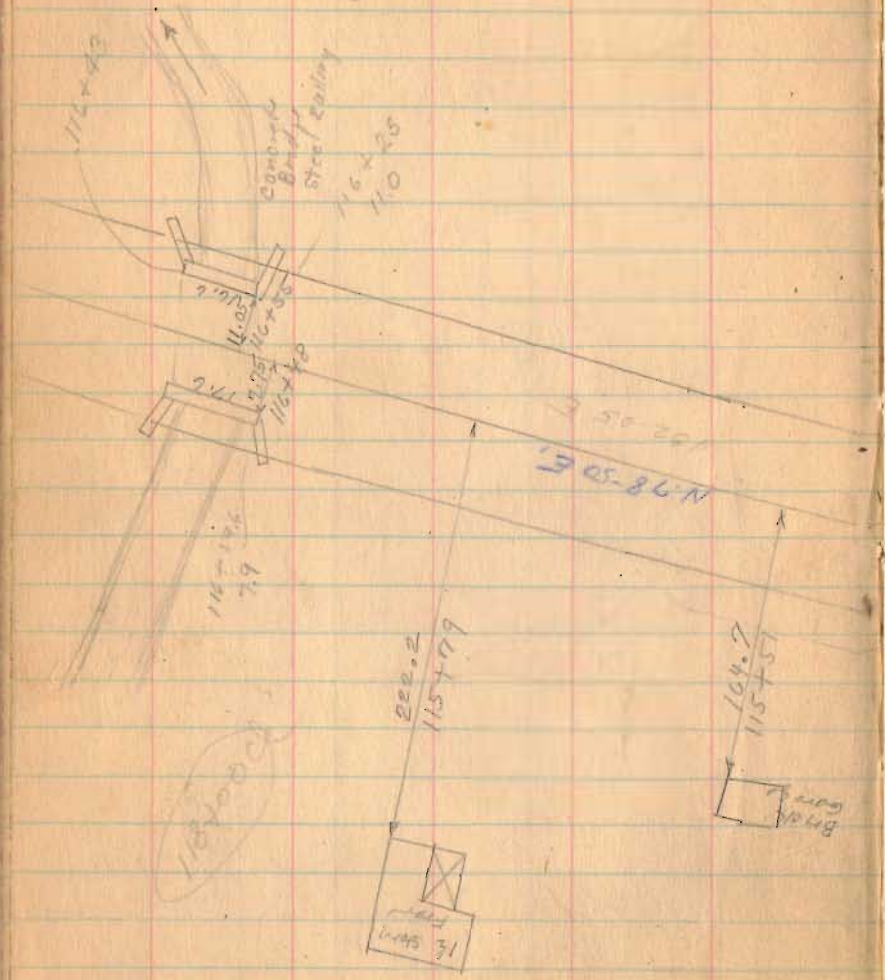
31

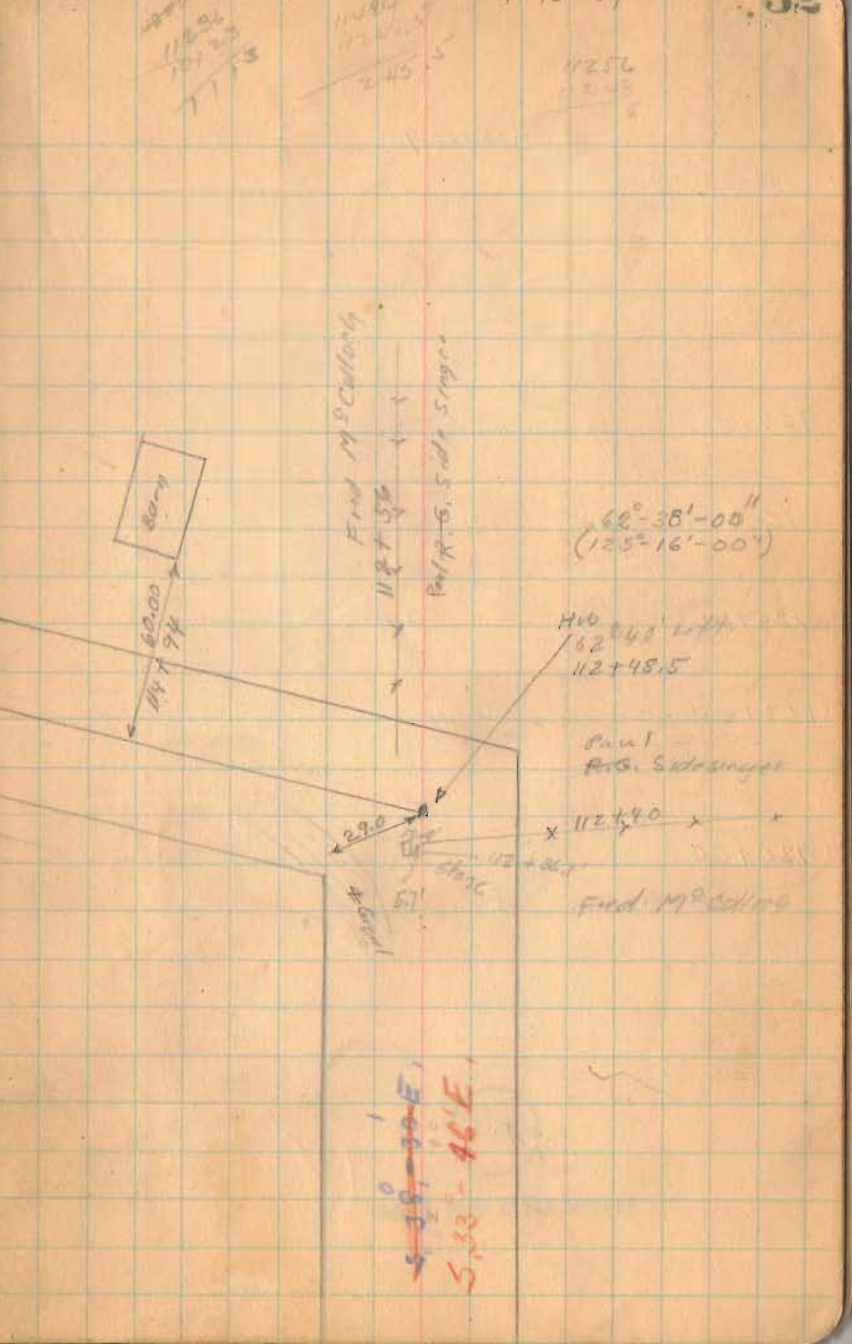
S 33° 45' E.



11-15-39

Road 29





1345

INDEXED ON MAP

Road 29

127+00

126+00

125+00

123+57.12

123+00

120+00

1345

INDEXED ON MAP

11-15-37

123.00
116.51
6.45

125+80
Old RR Fill

S 51-57 E

25.52

25.52

Iron
126+00
22°54 Right

S 74-51 E

25.60

25.60

Iron
125+00
24°26' Right

N 80-43 E

Iron
123+00
1°53' Right
3°-53' "
7-46- Double

122+70.8

Paul
~~A.G.~~ Sidesinger

118+97

119+25

Lane
118+86

Fred McCollogh

Paul
~~A.G.~~ Sidesinger

118+19

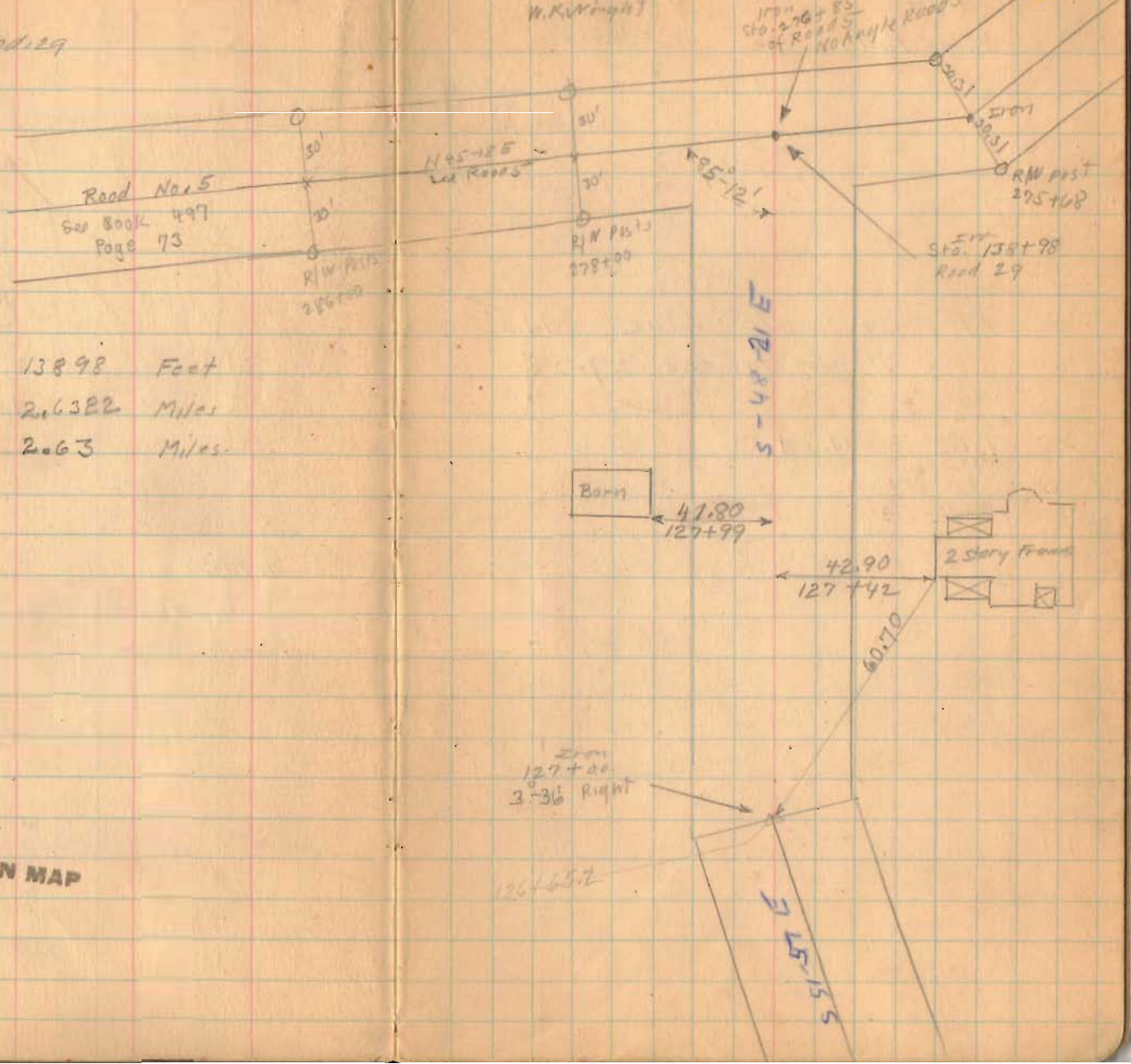
117+95

Fred McCollogh

N 78-50 E

Nov. 16, 1937
cloudy - Light Rain
F. Wright
G. Wright
W. K. Wright

Road 29



Length	13898	Feet
Length	2.6322	Miles
Length	2.63	Miles.

138+00

134+00

(1345)

130+00

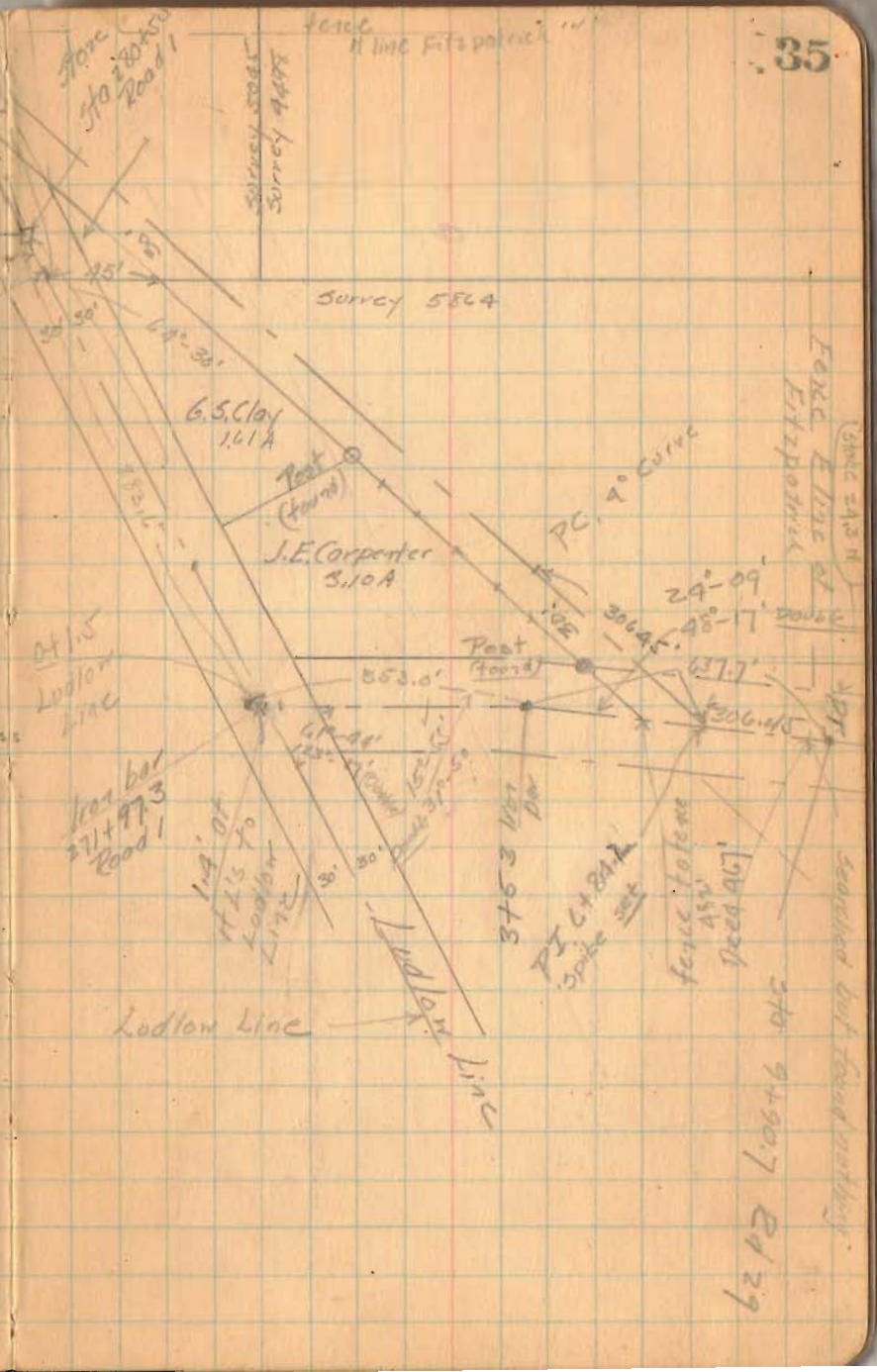
INDEXED ON MAP

7/9/36 C. A. Inskeep
J. H. Inskeep
F Frazer
M Jones
W F. Wright

7/11/38
Same Party

P.L. on Ludlow Line 144.8'
N° cor to Sec 27-28

P.C. = 144.8 +



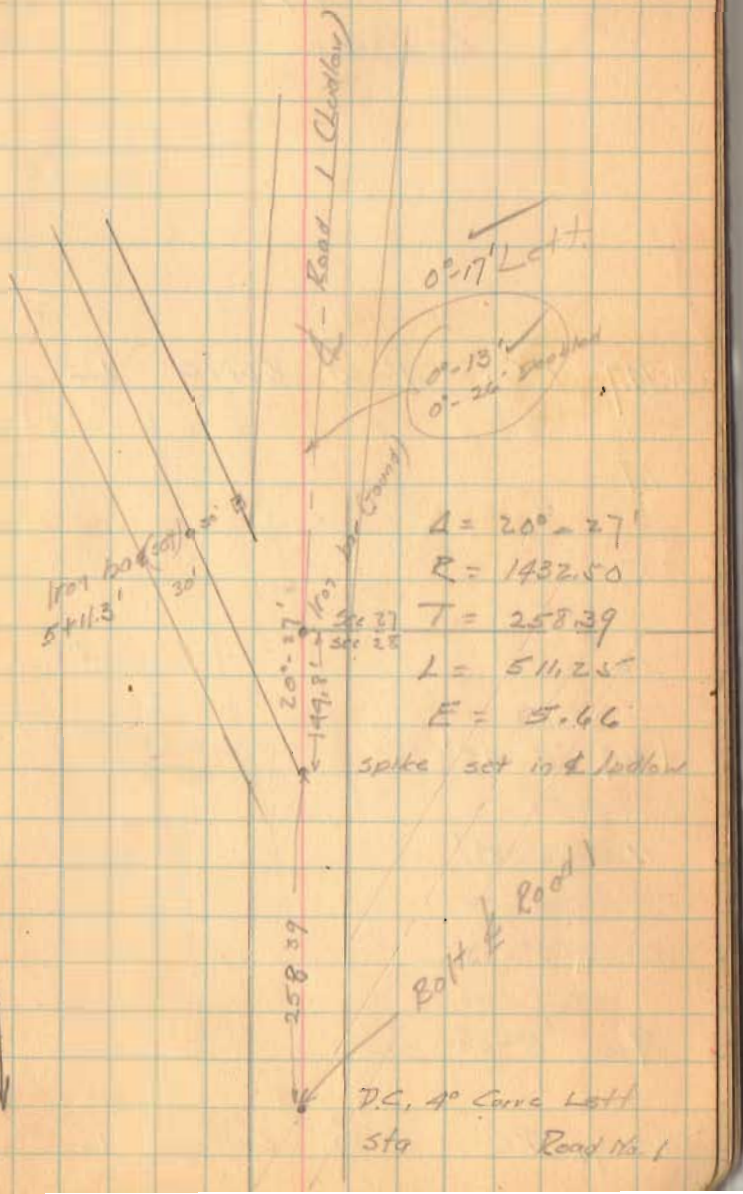
7/11/35

C.A. Hatcher
J.H. Hatcher
F. Frazer
W. Wright
T. Jones

Cut off Road 29 and Road 1

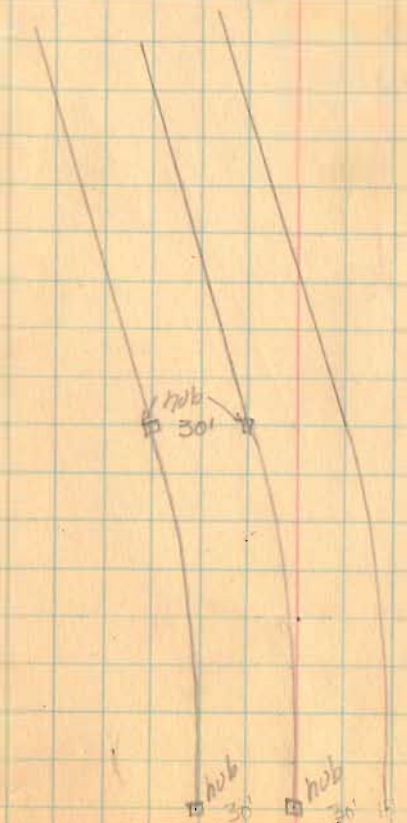
Set numbered stakes on ℄ and side stakes 30' each side ℄

			Fence line in B&O RR-Right
+46.9 PC	0°-30'	Curve L	33.0
8			31.6
7			37
6			39'
PT 5+11.3	10°-13'-30"		30'
5+00	10°-00'		29.6
4+00	8°-00'		
3+00	6°-00'		
2+00	4°-00'		
1+00	2°-00'	L	
0+00	P.C.	4°-00' Curve L	



Road 29
Continued

					Fence line B & D R.R. Right
+74.7	P.C.	4°-00'	Curve	L	30'
14					30
13					30
12					31
+46.9	0°-45'	P.T.			31
11	0°-38'				31
10	0°-23				31.3
9+00	0°-08				31.3
8+46.9	P.C.	0°-30'	Curve	L	



Δ = 1°-30'
R = 11460.0
T = 150.0
L = 300.0
E = 1.00

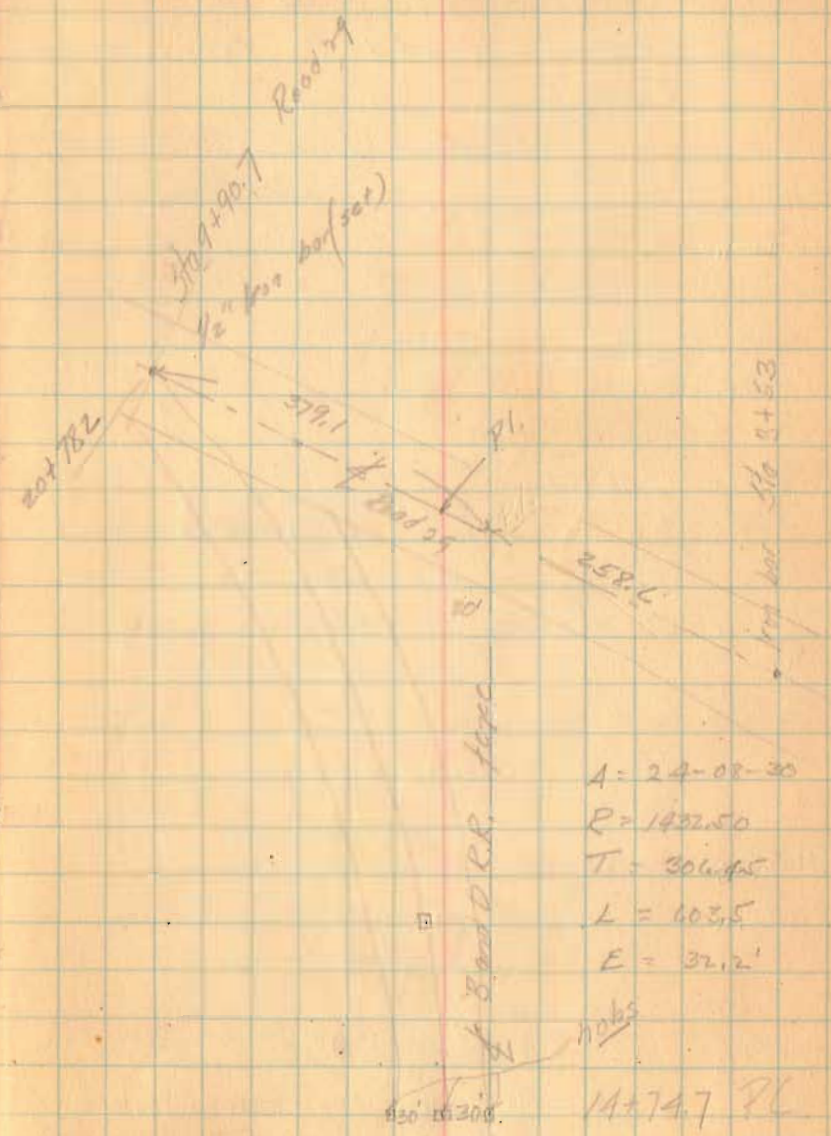
7/14/38 C.A. Inskeep
J.H. Inskeep
M. Jones
H. Campbell
A. Phillips
E. Smith

Fence line
B&D RR
Right

ROAD 29
Continued

+78.2	12°-10.4'	PT			
20	10°-30'				
19	8°-30'				
18	6°-30'				
17	4°-30'				
16	2°-30'				
15	0°-30'				80
14+74.7	PC	4°-00'	Corr.	L	80

379.1
258.6
637.7
353
990.7



A = 24-08-30
R = 1432.50
T = 306.45
L = 603.5
E = 32.2'

14+74.7 PC

Road 29 Cut off
Station 112+48.5 from
Road 1

Random Line

26+33.1
25+00
20+00
15+00
11+00 No angle

9+15

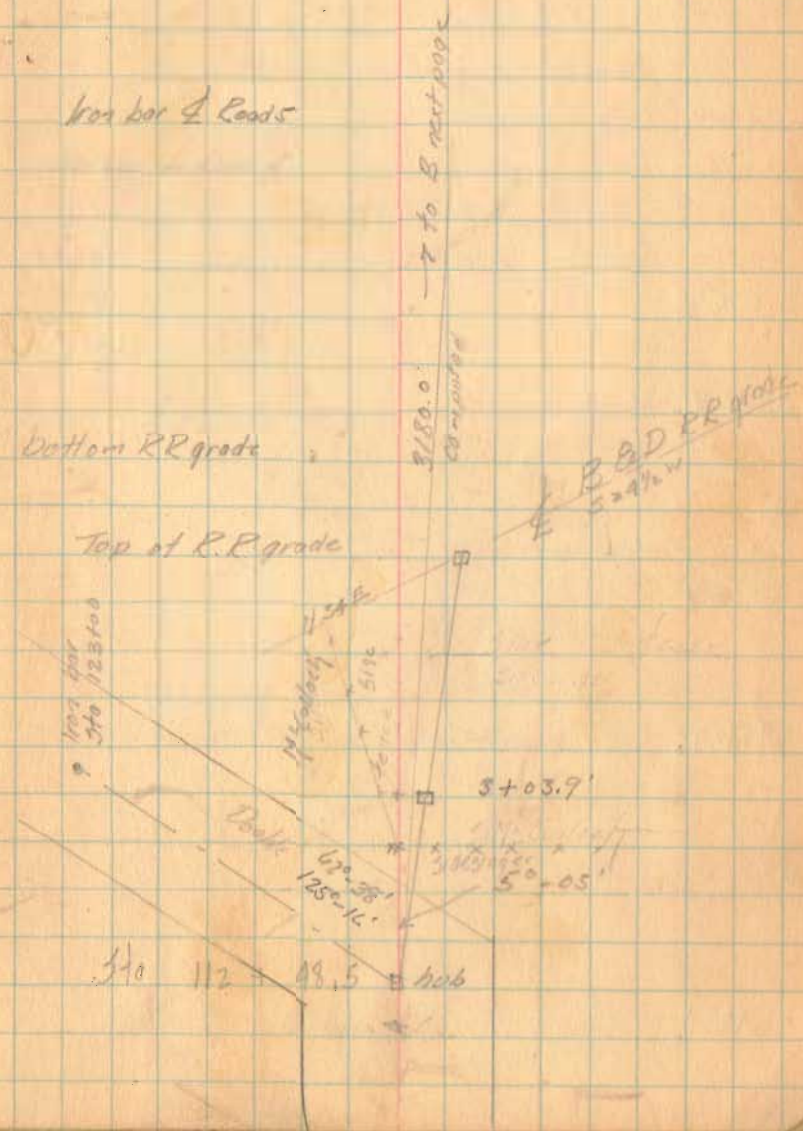
8+60.6 L 10°-30' S38W

3+03.9 No angle

0+00 R 5°-05' S28¾E

B.S. Sta. 100+02 Monroe Jefferson
Twp Line (Iron bar)

July 6, 1938
Clair A. Insteep
R. J. Kinnard
Emerson Smith
Herbert Campbell
Albert Phillips
8 hrs



		N	=	E	W
//	960.6	960.6			
// 0-30 W	1772.5	1742.8			323.0
// 3-13 E	110.4	109.8		6.7	
// 13-13 E	472.0	459.5		107.8	
	3245.1	3172.7		114.0	323.0
S 3°-46' E					114
					209°

32+15.1

30+21.7

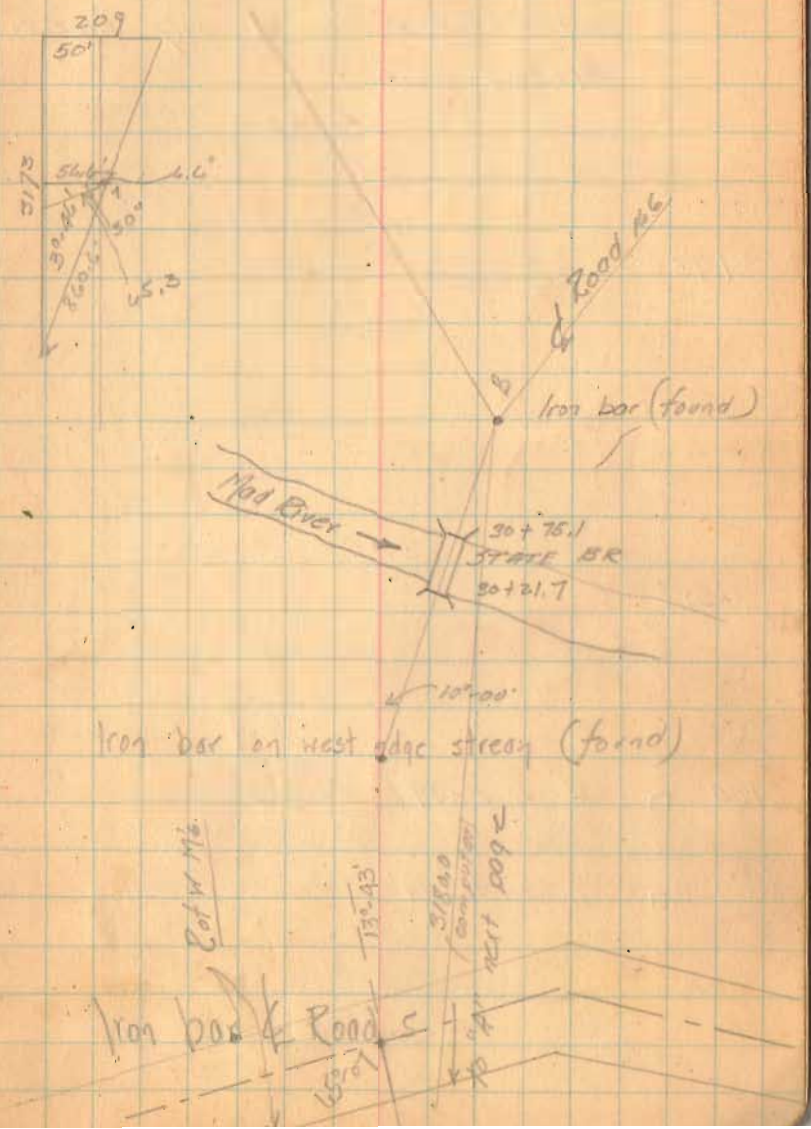
27+43.1 R 10°-00

26+33.1 R 13°-43' S 24 E

2638.1
582
3215.1

2633.1
387.6
3021.7

2633.1
442
3075.1



ROAD 29 STATION 112+48.5
Cut off.
Set stakes on ℄ only 0+00 to
31+79.7

Needle

3+73

1+30.8

0+00 □ R 1°-19 S24'/AE

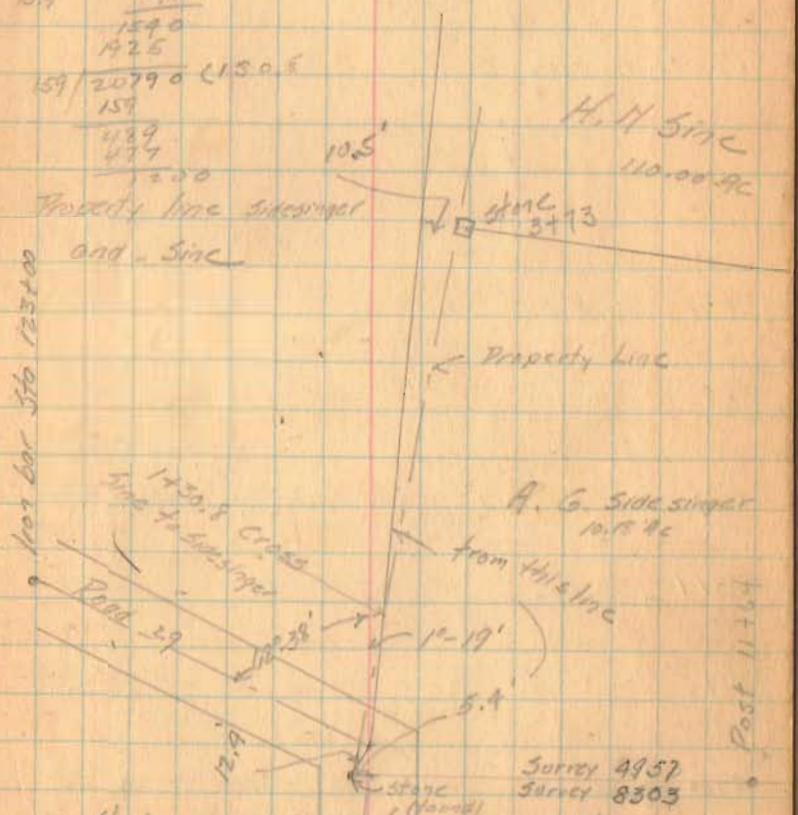
7-7-38
Clair A. Inskeep.
John H. Inskeep.
Fred Frazer
Emerson Smith
Herbert Campbell
Albert Phillips
8 hrs

373
12
385

10.5
5.4
15.9

5.4/15.9 × 385
5.4
1540
1925
159 / 20790 (130.8
159
489
477
1200

Property line Sidesinger
and Sinc



Survey 4957
Survey 8303

Station 112+48.5 from iron bar ℄ Road 1
on land of R. G Sidesinger 10.18 Acre tract
B.S. iron bar Sta 100+02 Monroe
and Jefferson Twp. Line (found)
Jefferson
iron bar Sta 100+02
Monroe

Continued

26+44

17+32

17+00 ☐ No angle

8+75

8+70

8+36

8+31.1 ☐ No angle

8+28

8+00

7+00

Fence R. side roads
Leave alfalfa - enter corn

Fence leave woods enter alfalfa field

Bottom ER grade

Top of ER grade

Grade at B&D ER

Top of ER bank

Top of R bank of stream and bottom ER grade

8+03

Stream

7+00

Top of L. bank of stream

Continued.

7/8/5 C.A. Gaskeep
J.H. Gaskeep
F. Frazer
A. Phillips
E. Smith
H. Campbell } Chrs.

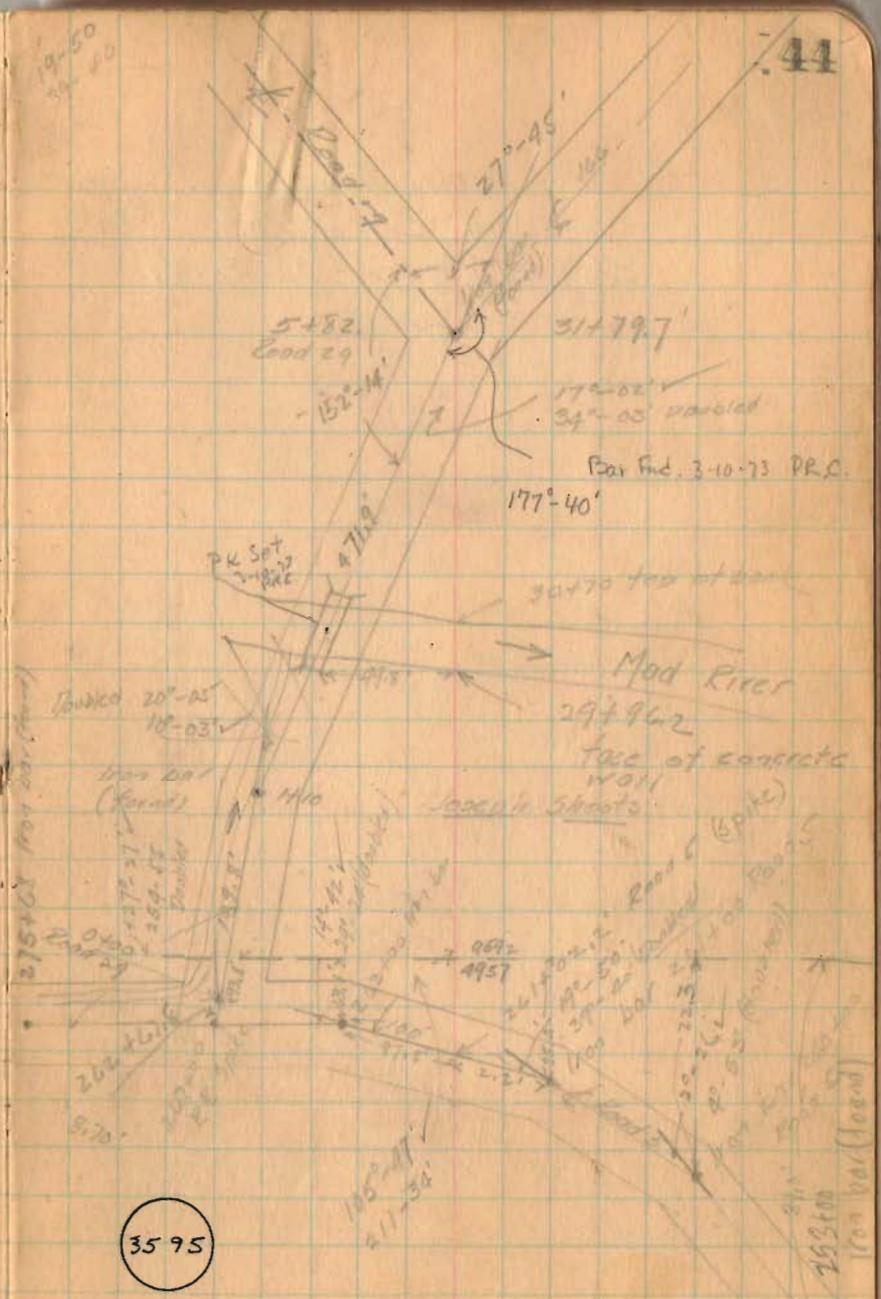
See pg 56

31+79.7 Iron bar Sta 5+82 Road 29 E of Road 5

29+96.2 E face of wall W side Mad River

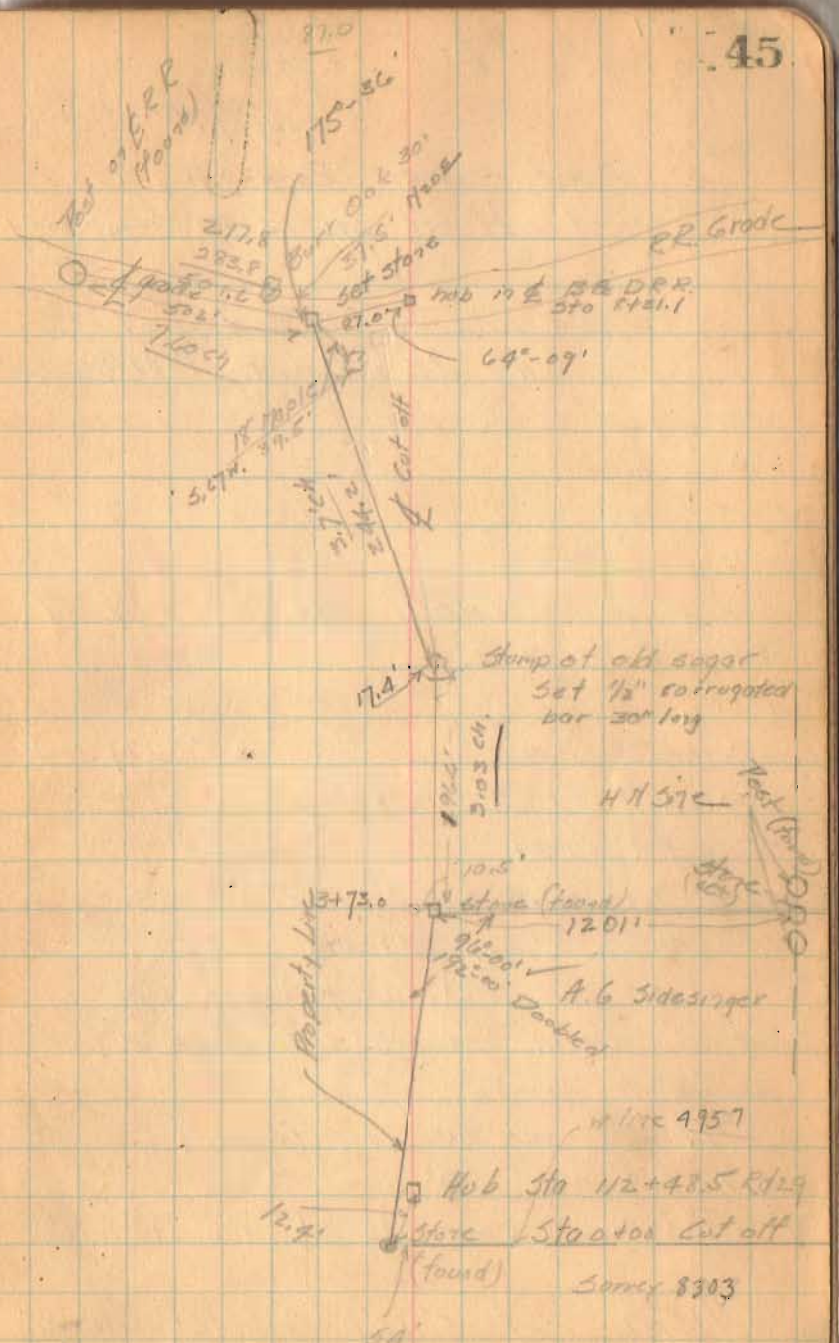
26+71.7 spike ℄ Road 5 at sta 261+02.2

26+AA



3595

Property Survey
Road 29 Cut off at
Sta 112+98.5 from Road 1



1938.8
15
1940.3

7/16/38

C.A. Inskeep
J.H. Inskeep
A. Phillips } WPA 4½ hrs
S. Dobey

Property Survey Road 29
Cut off at Sta 112+48.5 from Road 1

Random line near S.E. Line of 4957
from "A" N.E. ∠ from A 89°-44' (Record) Survey 6762

		Survey Line
0+00	hub	
5+00	hub	3.2'
9+75	hub	5.6
19+38.8	hub N. side 29	12.6
26+40	" 26+51.1	17.2

Deflect L 90°-04'

1+65

Deflect R 111°-00'

2+52.2

Deflect R 37°-34

0+22' found stone on brick
on line between 4957 and

A set hub cor to 4957-6762 and line of 9592

B set hub 26+51.1 and E 17.2' for cor to 4957 and 9592

Deflect L 90°-00'

C 1+64 set hub cor to 4957 and 9592

Deflect L 110°-42'

D 2+52.2 found stone on top of brick

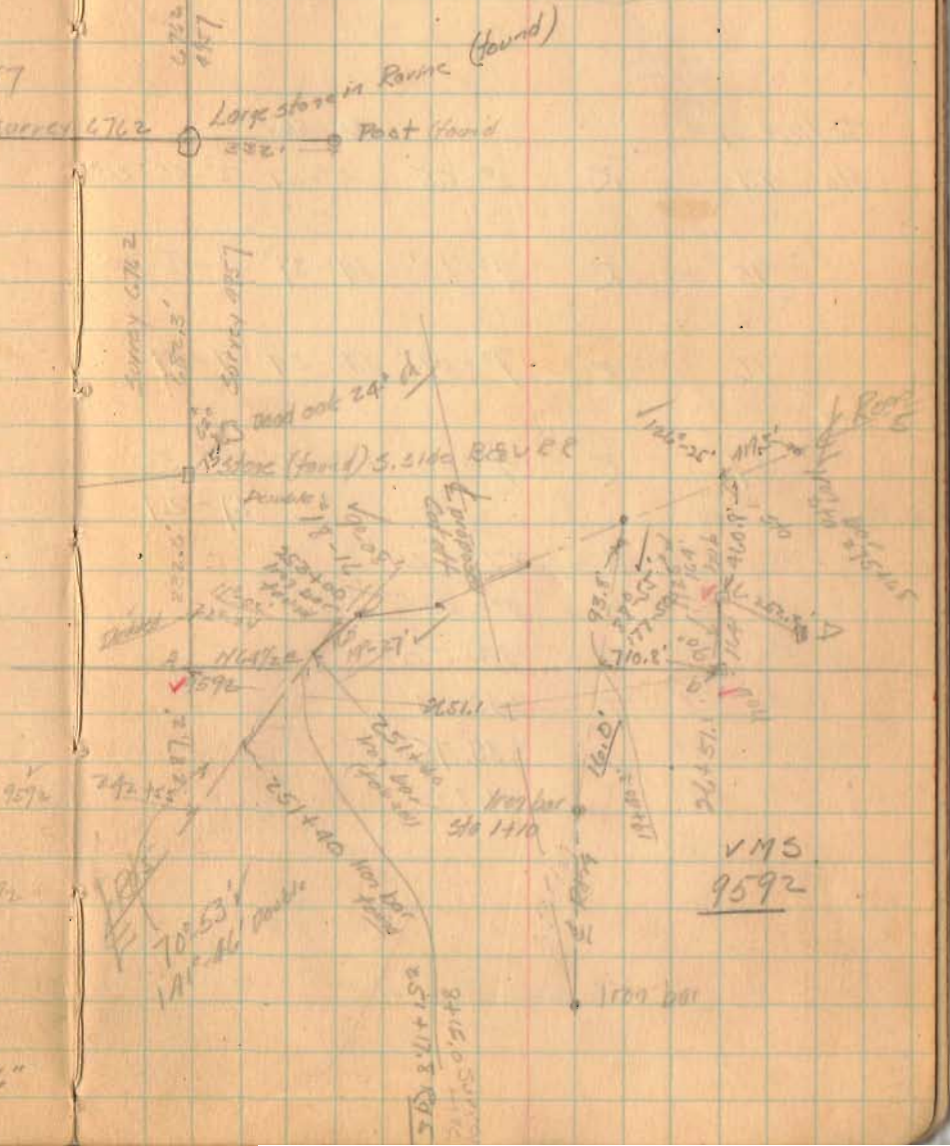
8/13/38 Set 5" X 3'-0" Concrete posts 6" below surface at "A" "B" and C

26+51.1
1940.3
710.8
696.4
4.4

8+34.3'
11+20.4
19+54.7
26+51.1
6+96.4

19+27

25140
22.2
25117.8



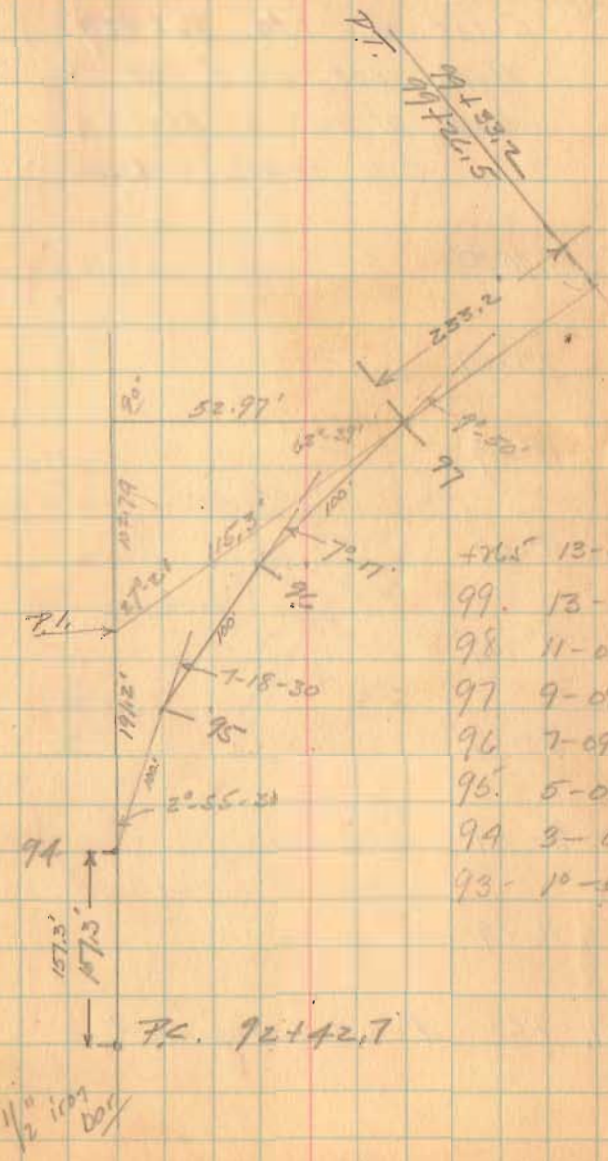
Road 29 Relocation Sta 92+42.7
to Sta 99+26.5 (Hostettler)

Deflection			Doubled	
Sta 94	R	2°-55'	5°-51	2°-55'-30"
95	R	7°-18'	14°-37'	7-18-30"
96	R	7°-17'	14°-34'	7-17
97	R	9°-50'	19°-40'	9°-50'
				27-21

Δ = 27°-21'
D = 4°-00'
R = 1432.50
T = 348.51
L = 683.75
E = 41.82

C.A. Inskeep.
J.H. Inskeep
M. Jones
A. Phillips
H. Campbell
E. Smith

7/14/38



+26.5	13-40-30
99	13-09
98	11-09
97	9-09
96	7-09
95	5-09
94	3-09
93	1°-09

7/15

Ludlow cost

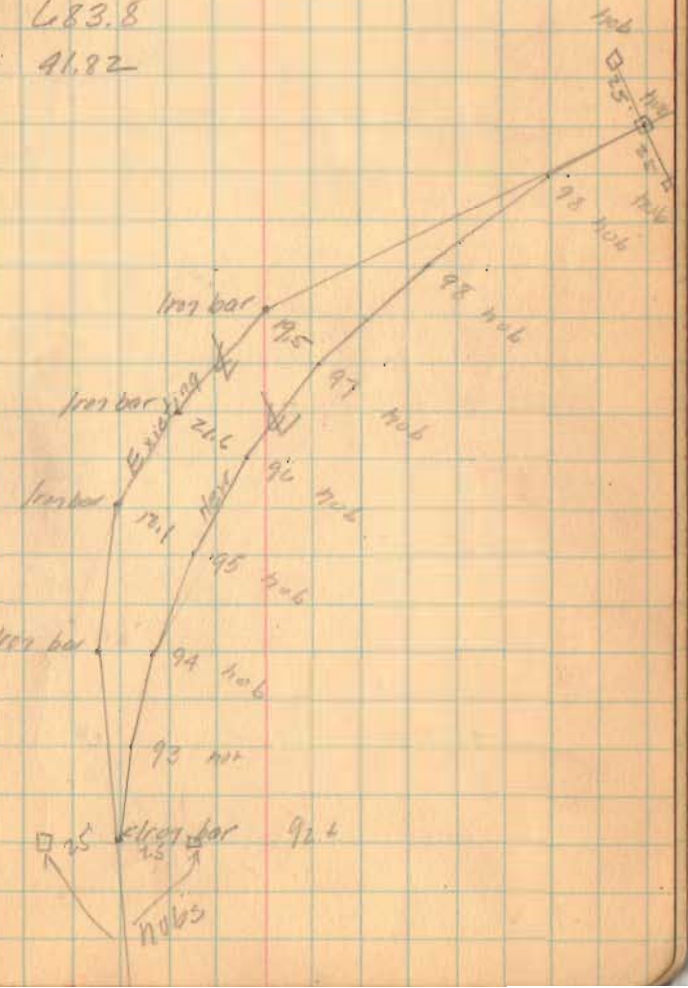
C.A. Inskeep
J.H. Inskeep
M Jones
A. Phillips
H. Campbell
E. Smith
} 4½ hrs

ROAD 29

Curve at Sta. 92+42.7
Hubs set on ℄ at PC. PT
and at each station.
Side stakes set 25' each side ℄

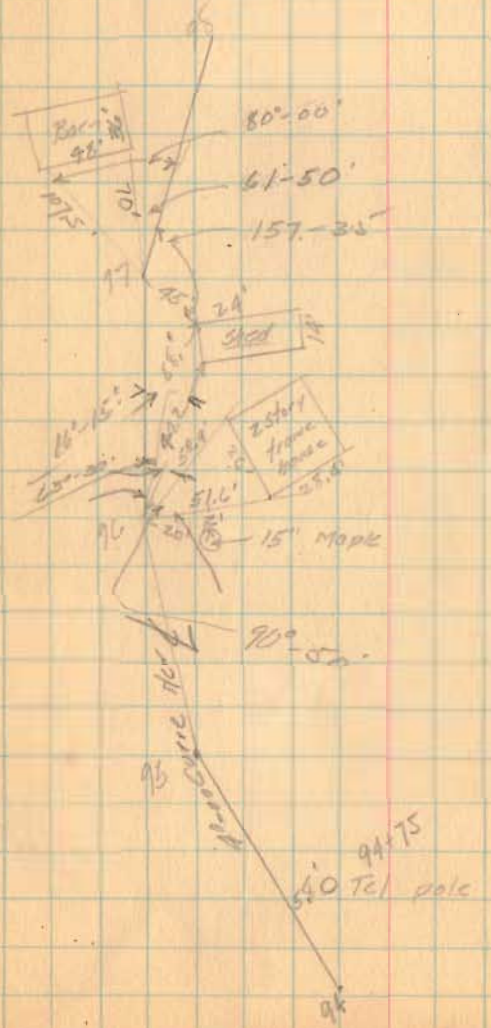
+26.5	13°-10'-30"
99	13°-09'
98	11°-09
97	9°-09
96	7°-09'
95	5°-09'
94	3°-09'
93	1°-09
92+42.7 PC.	4°-00' Curve R

A = 27°-21'
D = 4°-00'
R = 1432.50
T = 348.5
L = 683.8
E = 41.82



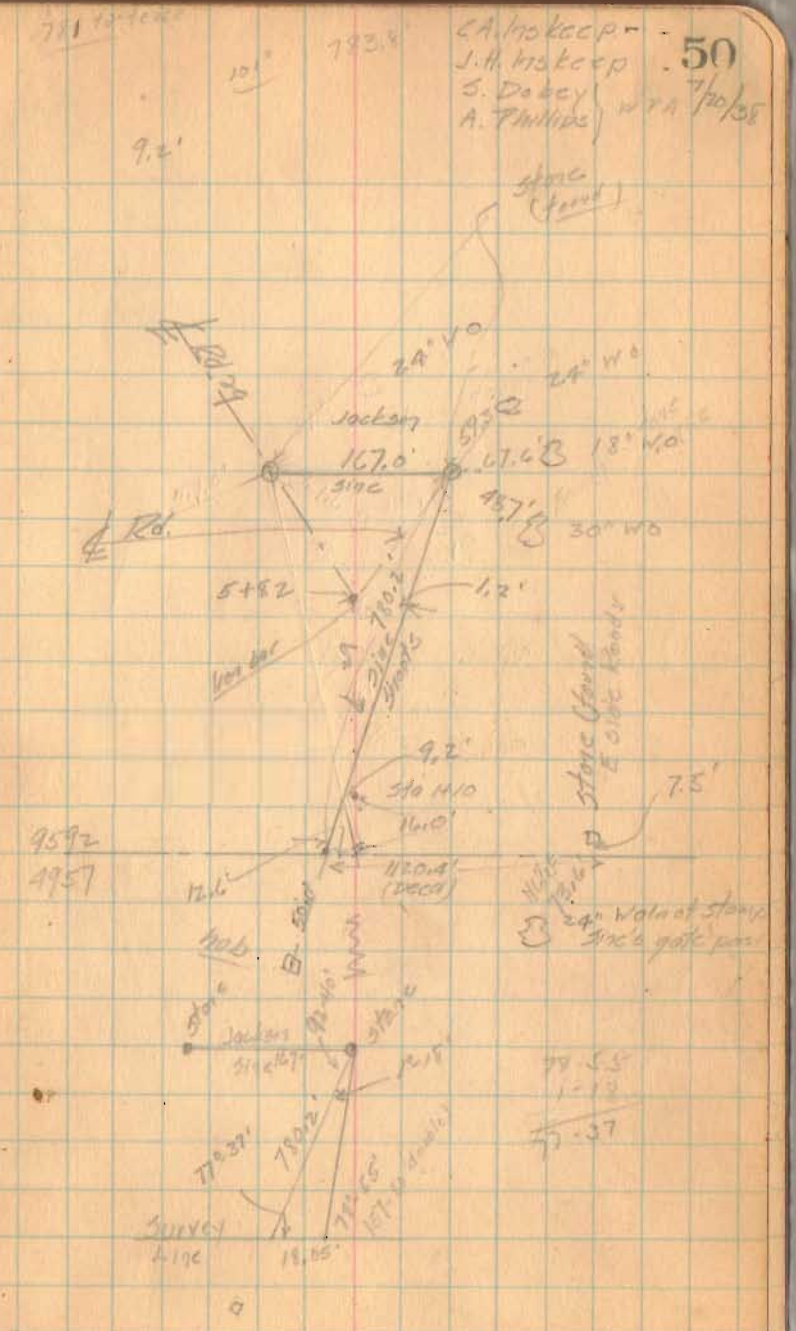
Continued

Location of buildings
of Curve Sta 92+42.7
Road 29
3E from Road 1 (Lodlow)

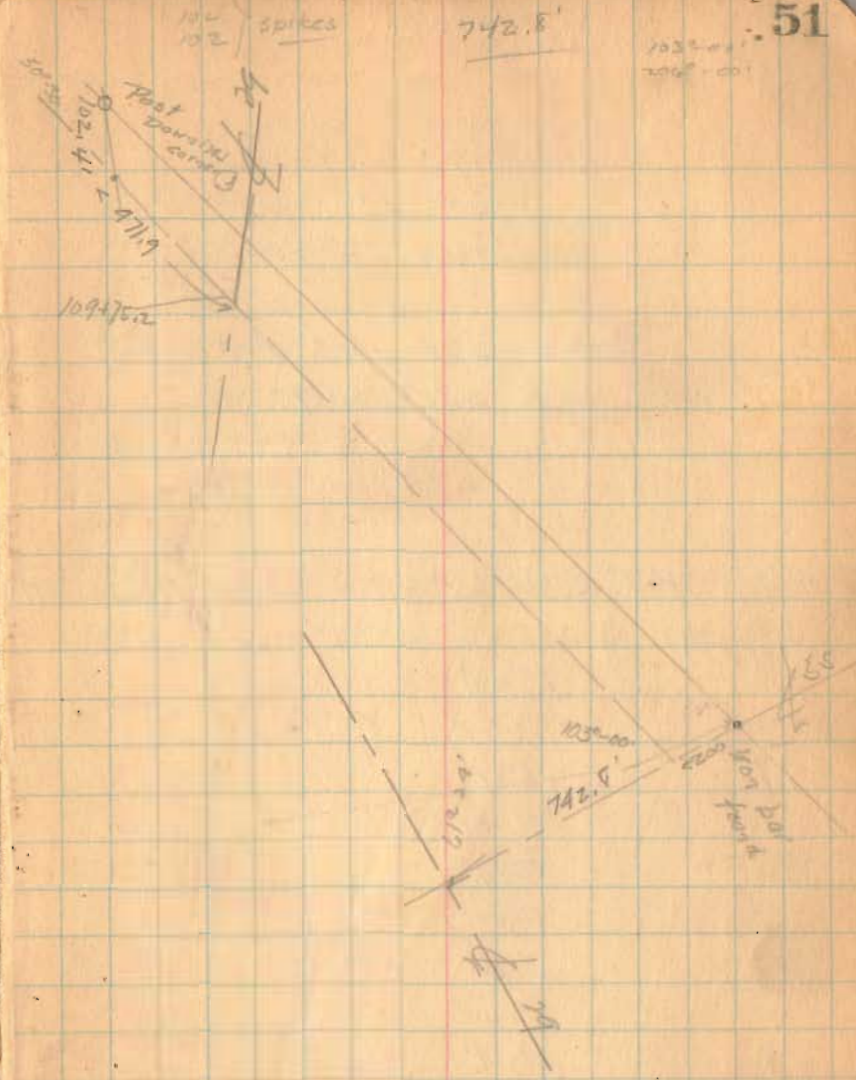


Survey of Line between
Sine & Shoots
V.M.S. 9592 Monroe Twp.
Road 29 at State Br.

C.A. Inskeep
J.H. Inskeep
S. Dobey
A. Phillips
WTA 7/20/38



10002
26.8
09752



G.W. 1905 12/30/34

Staking 6° Curve
Road 29
Jefferson TWP

Stakes set 30' from ℄
on south side only

$\Delta = 27°-21'$
$D = 6°-00'$
$R = 955.366$
$T = 232.42$
$L = 455.93$
$E = 27.87$

+14.1	PT	13°-10.30'	Iron	Monuments (Hubs Set)
98		13°-14		
97+50		11°-44'		
97		10°-14'		
96+50		8°-44'		
96		7°-14'		
95+50		5°-44'		
95		4°-14'		
94+50		2°-44'		
94		1°-14'		
93+58.8	PC.	0°-00'	Iron	Monuments - (Hubs Set)

116.1' north of P.T. (See page 28 this book)
(P.T. = 98+16.2 of original survey Page 30)

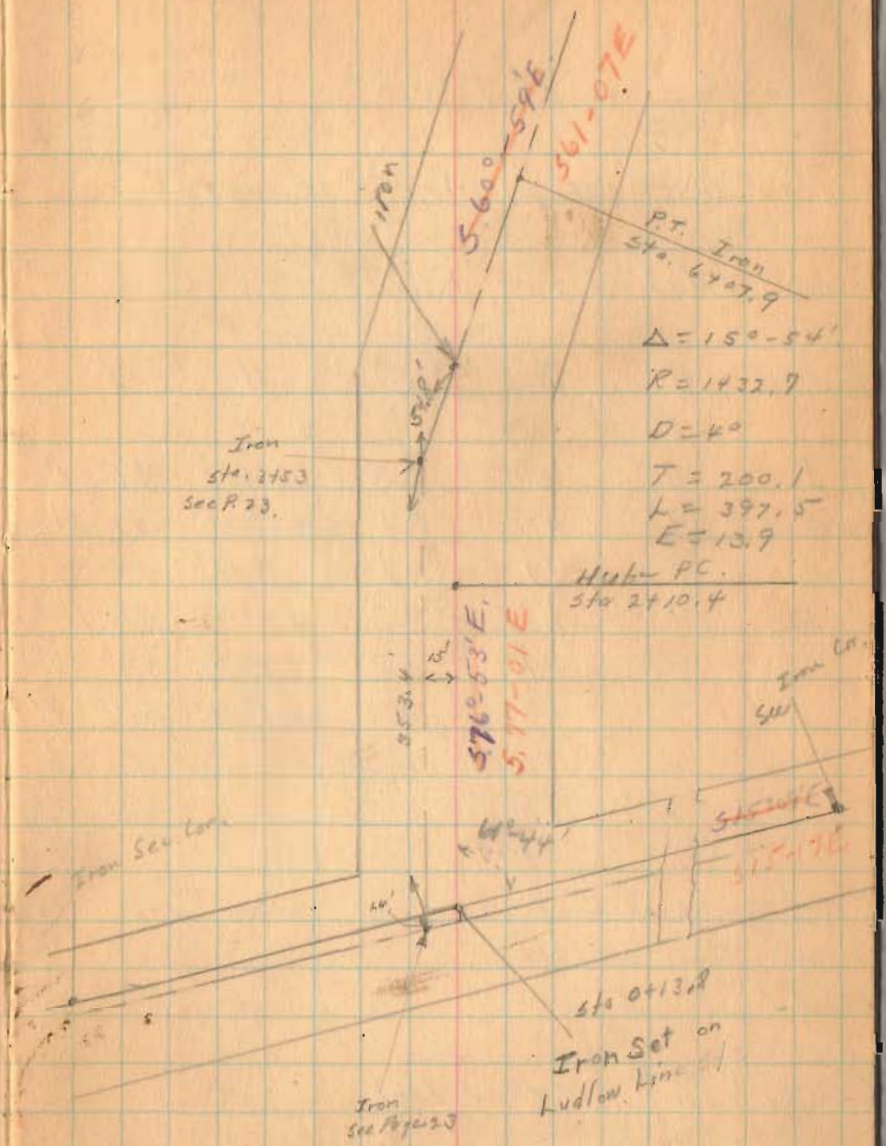
Curve- Hubs set on ℄ -

P.C.	Sta	2 +10.4		✓
	Sta.	2 +50	0°-48'	✓
		3+00	1°-48'	✓
		3+50	2°-48'	✓
		4+00	3°-48'	✓
		4+50	4°-48'	✓
		5+00	5°-48'	✓
		5+50	6°-48'	
		6+00	7°-48'	
		6+07.9	7°-57'	

6+07.9 - P.T. - Monument (Hubs set)

2+10.4 - P.C. - Monuments (Hubs set)

1+00 - Monuments - (Hubs set)



July 14, 1939
E. Gore Obs.
C. Keysor Rec.

Rd. 1

Sun Observation for Azimuth
Berger Transit #6852
Watch time E.S.T. - 7s Slow
Temp - 94° F.

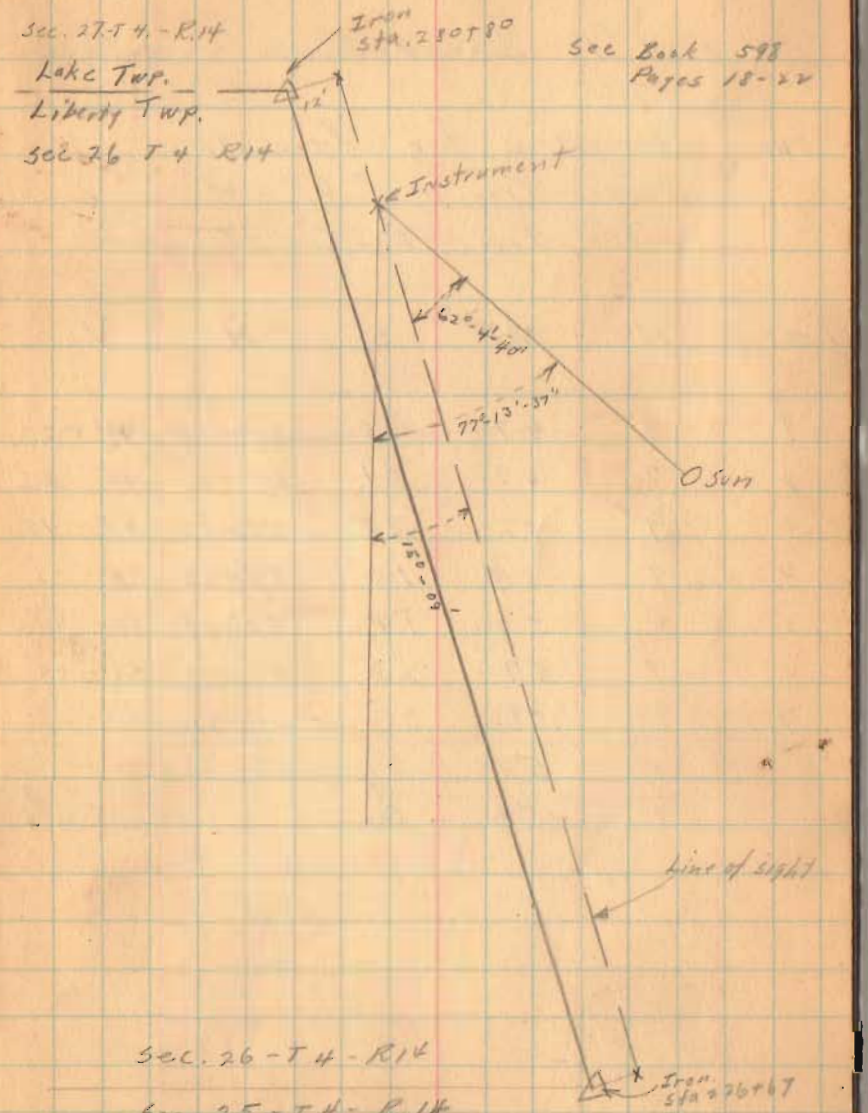
Reading	H	M	S	H	V
1	9	39	26	62°42'	47°37'
2	9	40	31	62°28'	47°51'
3	9	41	37	62°16'	48°01'
4	9	42	83	62°03'	48°12'
5	9	44	52	61°35'	48°37'
6	9	45	41	61°24'	48°39'
	9	42	26.67	62°-4'-40"	41°-09'-30"
			7.00		48
	9	42	33.67		48° 8' 27"

d = declination of the Sun - 21°-41'-30"
h = Sun's Altitude = 48°-8'-27"
l = Latitude = 40°-20'

$$\cos Az = \frac{\sin d}{\cos h \cos l} - \tan h \tan l$$

$$= \frac{\sin 21°-41'-30"}{\cos 48°-8'-27" \times \cos 40°-20'} - \tan 48°-8'-27" \times \tan 40°-20'$$

Az = 77°-13'-37"
62 - 4 - 40
15° - 08 - 57
S. 15°-09' E.



July 14 1939
C. Keysor - Observer
E. Core - Recorder

Road #1 Liberty Twp.

See Page 54 - For location

Sun Observation for Azimuth
Berger Transit #6852
Watch Time E.S.T. - -7s. slow

Reading	H	M.	S	H	V
~~1~~	~~9~~	~~47~~	~~38~~	~~61° - 00'~~	~~49° - 20'~~
2	9	49	54	60° - 30'	49° - 15'
3	9	52	35	59° - 55'	49° - 47'
4	9	55	10	59° - 23'	50° - 22'
5	9	56.	14	59° - 08	50° - 44'
6	9	57	28	58° - 50'	51° - 00'
7	9	58	33	58° - 37'	51° - 08
	9	54	59	59° - 23' - 50"	50° - 34' - 20"
			7		37
	9	55	06		50° 23' 41"

3300
3286.7
13.3

Road 29

Cont. from pg 44

Hubs set for 60' R/W

Set mon at 33+00

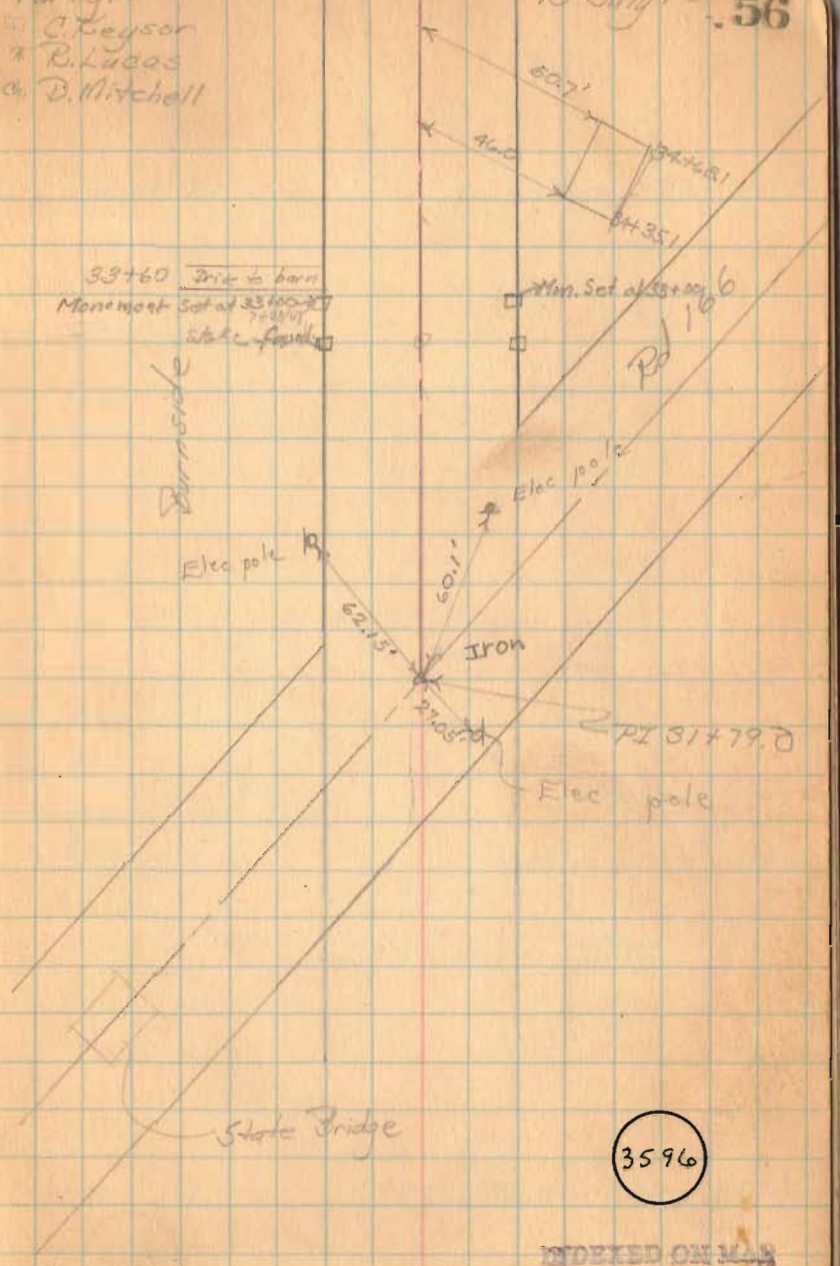
PT 32+86.7 ~~Hubs set~~

PI 31+79.7 Iron

Party:-
C. Keysor
R. Lucas
D. Mitchell

15 July 46

56



3596

INDEXED ON MAP

Rd 29 (contd)

3500
32867
2133

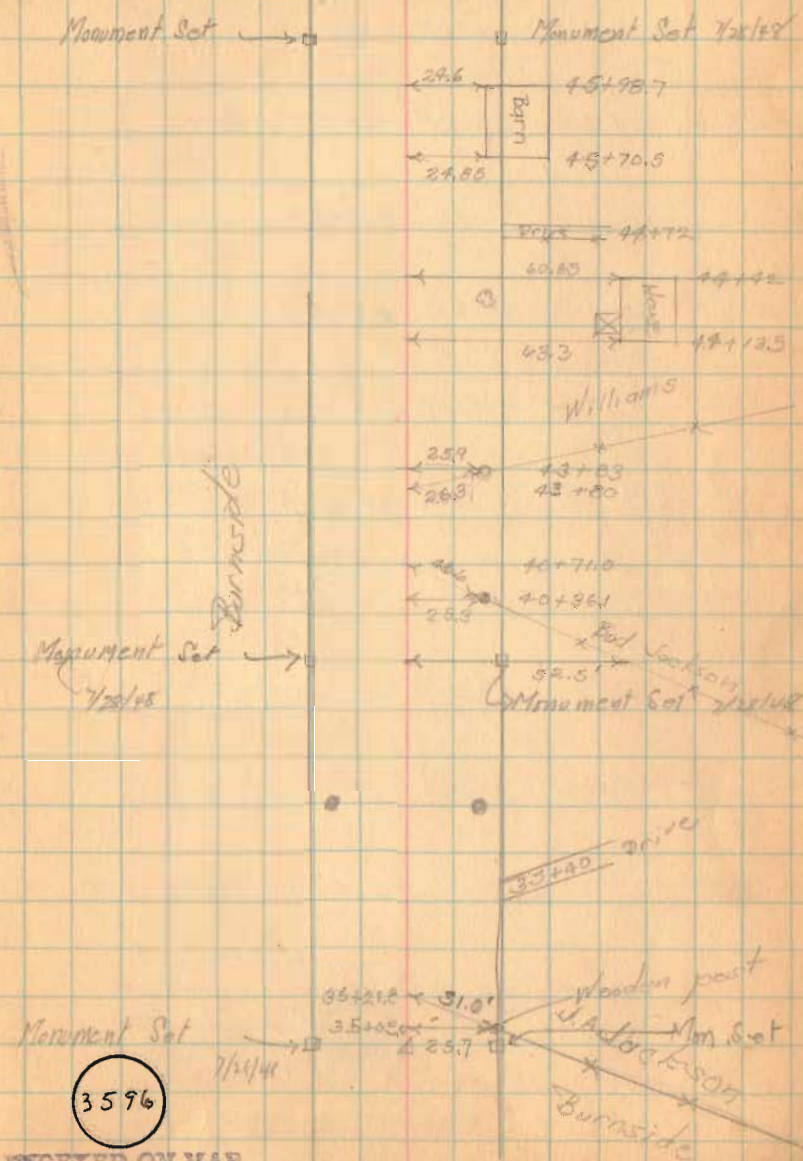
PT 46+27.55 Hubs set

42+96.6 Old Mon. at 25'

40+00 Hubs set

37+96.6 Old monuments at 25'

35+00 Hubs set



3596

INDEXED ON MAP

T2

Rd 29 (contd)

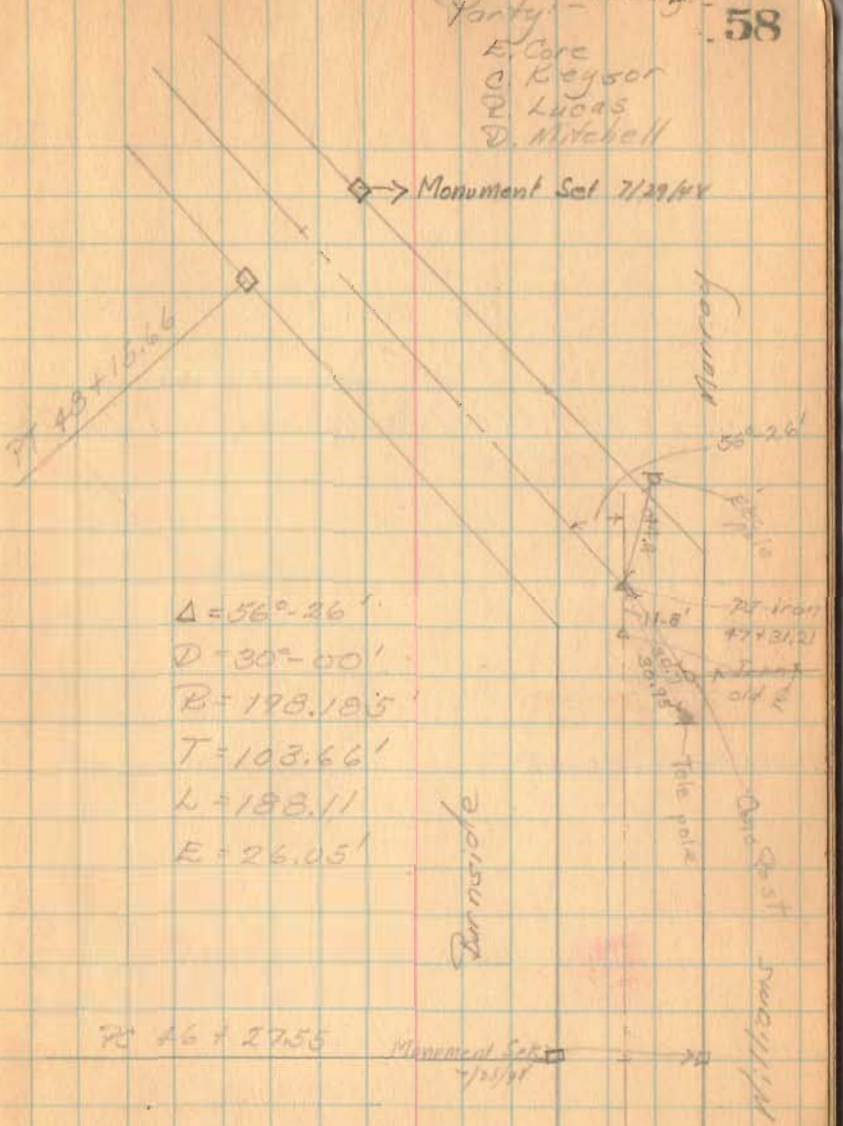
	Dist.	Defl	Total Defl.	
PT 48+15.66	15.66	2°-21'	28°-13'	Hubs set
48+00	100.00	3°-45'	25°-52'	
+75	75.00	3°-45	22°-07'	
+50	50.00	3°-45	18°-22'	
+25	25.00	3°-45	14°-37'	
47+00	72.45	3°-45'	10°-52	
+75	47.45	3°-45'	7°-07'	
+56	22.45	3°-22'	3°-22'	
PC 46+27.55				Hubs set

See pg 60 for location of piling on inside of curve.

Party:- 15 July 46

E. Core
C. Keyser
R. Lucas
D. Mitchell

.58

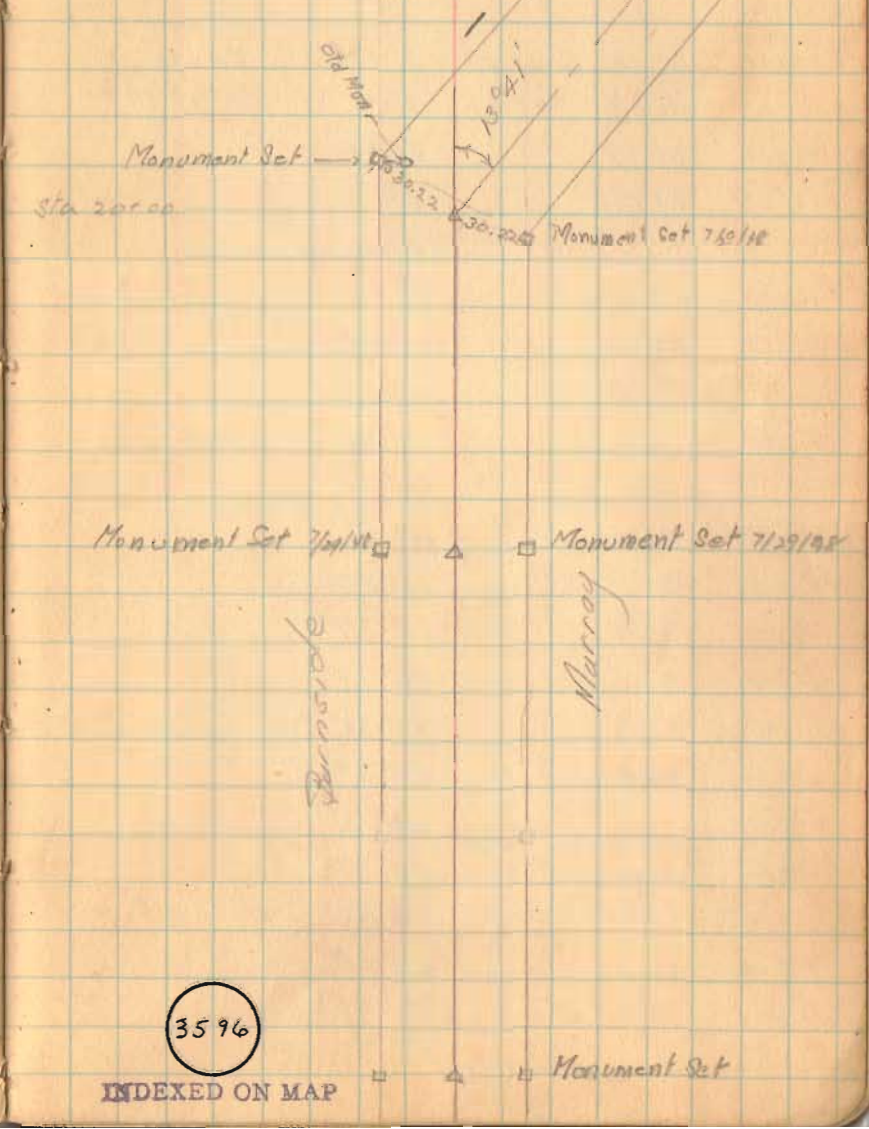

Monument Set 7/29/46
PT 48+15.66
Δ = 56°-26'
D = 30°-00'
R = 198.195'
T = 103.66'
L = 198.11'
E = 26.05'
Survey
PC 46+27.55
Monument Set 7/25/46
Monument Set 7/29/46
Tele pole
Quad Post
Fence
Fence
Fence

Rd 29 contd

55+625 = 29+78 (Old Stationing) Iron 13°41'R

52+00 Hubs set

43+15.6 Hubs set



3596
INDEXED ON MAP

Rd 29

Contd from pg 59.

Stakes set for 60' R/W

35+00 Iron Hubs set Monument Set Right only

32+63 Iron Hubs set Monuments Set

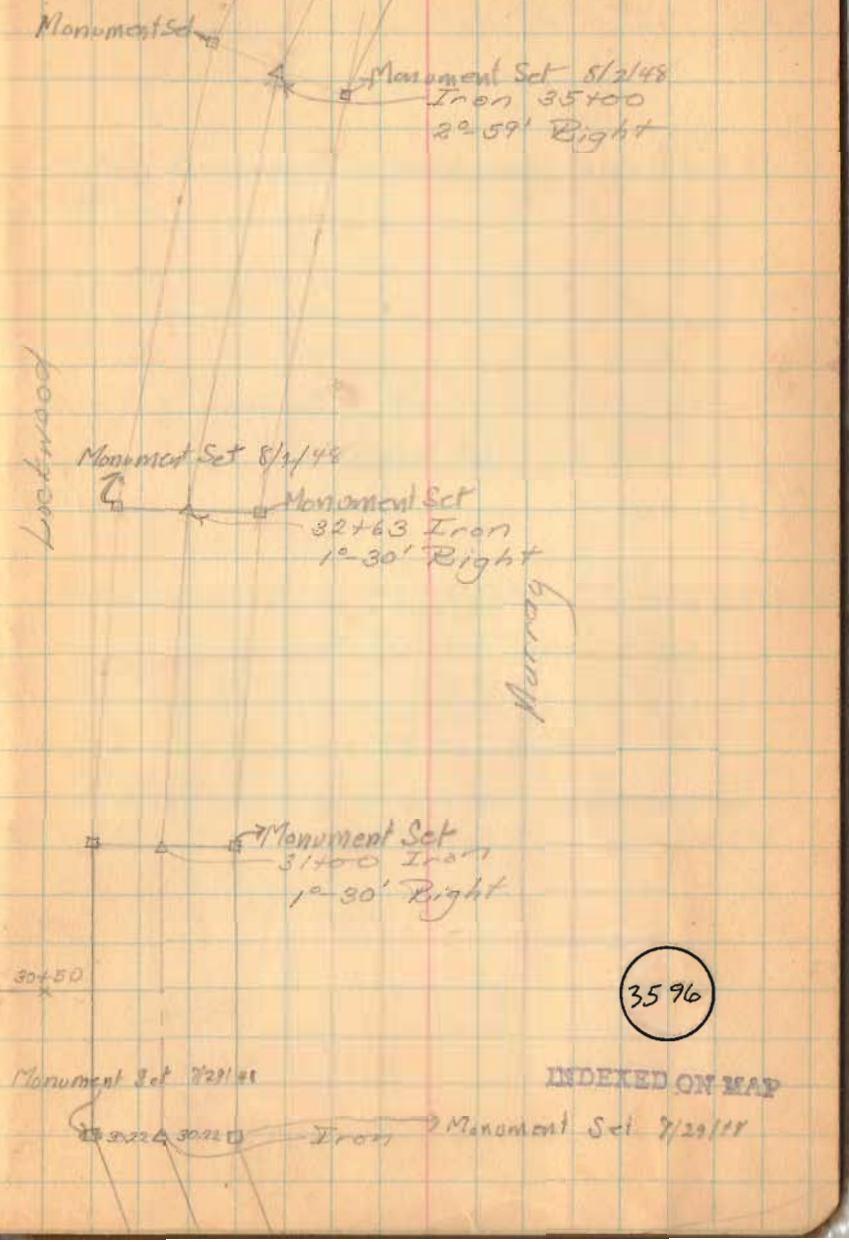
31+00 Iron Hubs set Monument Set right only

Lockwood Rd 30+50

Burnside

55+60.5 = 29+78 (old stationing) 13° 41' Right

Hubs set



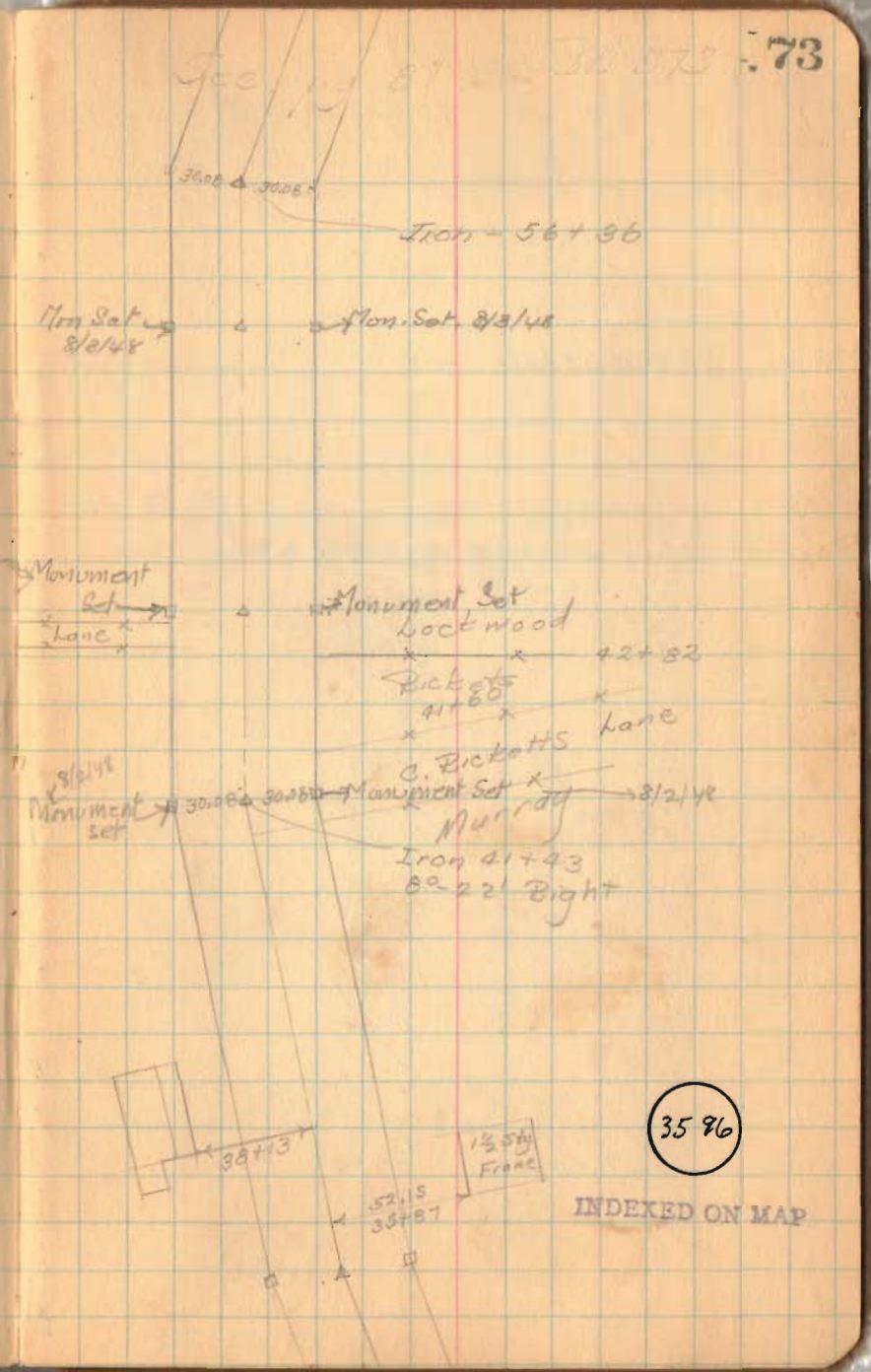
3596

INDEXED ON MAP

Rd 29 (contd)

56+96	Iron	No hubs set	
57+00	RR spike	Hubs set	Monuments Set
78+00	RR spike	Hubs set	Monuments Set 8/2/48
91+93	Iron	Hubs set	Monuments Set

35400



6559.93
5891.25
668.00

Rd 29 (contd)

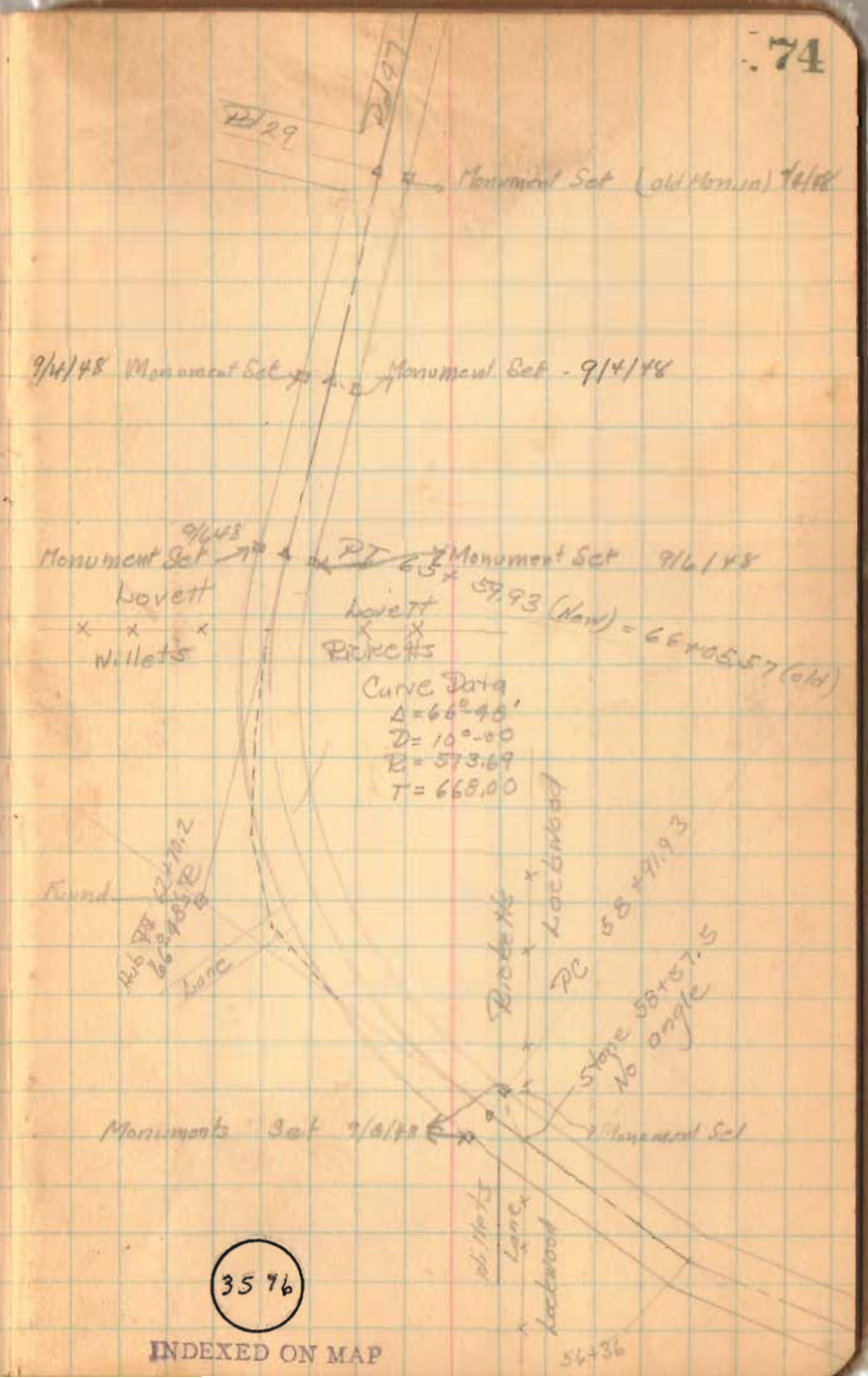
See Bk 573 pg 13, 14+15, 61+62

73+44 Iron Hub set right only

72+00 PRspike Hubs set

PT
65+59.93 (New) = 66+05.57 (old) PRspike - Hubs set

Sta	Dist	Defl	Total Defl
65+59.93	59.93	1°44.79'	93°-24'
+25	25	1°-15'	31°-39'
65+00	100	"	30°-24'
+75	75		29°-09'
+50	50		27°-54'
+25	25		26-39
64+00	100		25-24
+75	75		24-09
+50	50		22-54
+25	25		21-39
63+00	100		20-24
+75	75		19-09
+50	50		17-54
+25	25		16-39
62+00	100		15-24
+75	75		14-09
+50	50		12-54
+25	25		11-39
61+00	100		10-24
+75	75		9-09
+50	50		7-54
+25	25		6-39
60+00	100		5-24
+75	75		4-09
59+50	50		2-54
+25	25	1°-15'	1-39
59+00	8.07	0°-29.21'	0°-24
PC			
58+91.93	PRspike	Hubs set	



3576

INDEXED ON MAP