

Misc

MISC

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101 DASH

occ 80

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING
ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.
FOR SINGLE TRACK EXCAVATION.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

Finder please return to

Forest Ranger

Walker, Minn.

280' back
Y 3 S
10 S - 2 + 60

TABLE X.
MIDDLE ORDINATES OF RAILS
Length of Rail (feet)

C o'	R Feet	30 Inch	28 Inch	26 Inch	24 Inch	22 Inch	20 Inch	C o	R Feet	30 Inch	28 Inch	26 Inch	24 Inch	22 Inch	20 Inch
0-20	17189	.08	.07	.06	.05	.04	.03	8	716.8	1.88	1.64	1.42	1.20	1.01	.84
0-40	8594	.16	.14	.12	.10	.08	.07	9	637.3	2.12	1.84	1.60	1.35	1.14	.94
1-0	5730	.24	.20	.18	.15	.13	.10	10	573.7	2.36	2.05	1.78	1.50	1.27	1.04
1-20	4297	.31	.27	.23	.20	.17	.13	11	521.7	2.59	2.26	1.95	1.65	1.39	1.15
1-40	3438	.39	.34	.29	.25	.21	.17	12	478.3	3.83	2.47	2.15	1.81	1.54	1.26
2-0	2865	.47	.41	.35	.30	.25	.20	13	441.7	3.05	2.66	2.30	1.96	1.66	1.36
2-20	2456	.55	.48	.41	.35	.29	.23	14	410.3	3.30	2.87	2.48	2.10	1.78	1.46
2-40	2149	.63	.55	.47	.40	.33	.27	15	383.1	3.54	3.08	2.68	2.26	1.91	1.57
3-0	1910	.71	.62	.53	.45	.38	.31	16	359.3	3.76	3.28	2.83	2.40	2.04	1.67
3-20	1719	.78	.68	.59	.50	.42	.35	17	338.3	4.00	3.48	3.02	2.57	2.16	1.78
3-40	1563	.86	.75	.65	.55	.46	.38	18	319.6	4.21	3.67	3.18	2.70	2.28	1.87
4-0	1433	.94	.82	.71	.60	.50	.42	19	302.9	4.45	3.89	3.36	2.86	2.41	1.98
4-20	1323	1.02	.89	.77	.65	.55	.45	20	287.9	4.70	4.09	3.55	3.00	2.54	2.09
4-40	1228	1.10	.96	.83	.70	.59	.48	22	262.0	5.16	4.44	3.84	3.30	2.80	2.29
5	1146	1.18	1.03	.89	.75	.63	.52	24	240.5	5.64	4.92	4.20	3.59	3.04	2.50
6	955.3	1.41	1.23	1.06	.90	.76	.62	26	222.3	6.07	5.29	4.58	3.88	3.29	2.70
7	819.0	1.65	1.44	1.24	1.05	.89	.73								

TABLE XI.
SHORT RADIUS CURVES

Radius Feet	Chord Feet	Central Angle	Deflection Angle	Deflection for 1 Foot
35	10	16-26	8-13	49.3
45	10	12-46	6-23	38.3
50	15	17-16	8-38	34.5
60	15	14-22	7-11	28.8
75	15	11-30	5-45	23.0
100	20	11-30	5-45	17.3
120	20	9-34	4-47	14.3
150	20	7-39	3-49	11.5
190	25	7-32	3-46	9.15
200	25	7-10	3-35	8.6
225	25	6-25	3-12	7.7
240	25	5-58	2-59	7.2
250	25	5-44	2-52	6.9
275	25	5-12	2-36	6.2
288	50	0-58	4-59	6.0
300	50	9-32	4-46	5.7
350	50	8-12	4-06	4.9
376	50	7-40	3-50	4.6
400	50	7-10	3-35	4.3
410	50	7-00	3-30	4.2

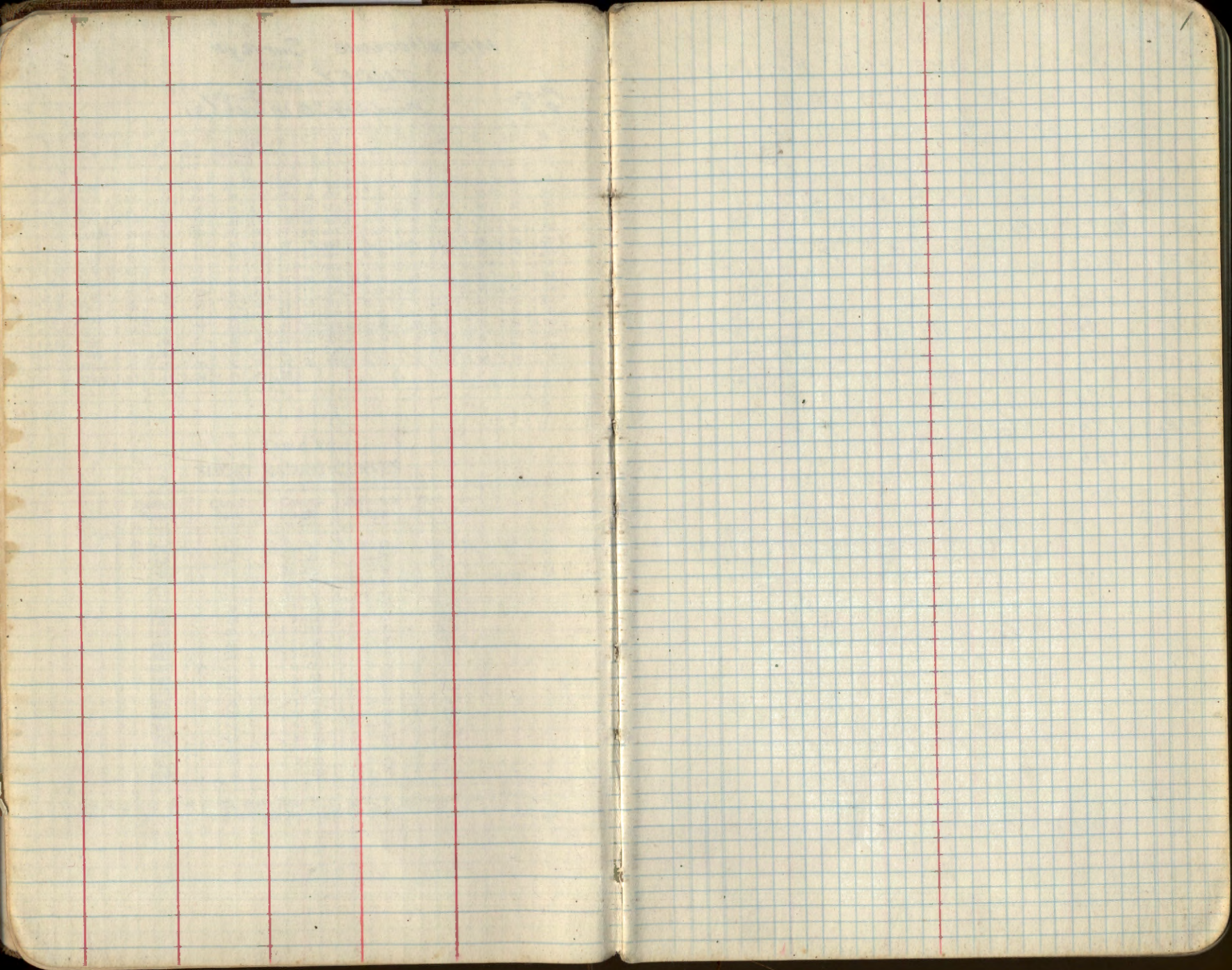
To find length of curve divide angle from P. C. to P. T. by central angle of chord, and multiply by length of chord.

Miscellaneous Surveys

INDEX

Page
2-8

Survey
Meadows - S. 18-142-31



Va 12°

CEDAR LAKE HAY MEADOWS.

Beginning at 2" x 16" I.P., S.M.C., 10 ch.
South of $\frac{1}{4}$ $\frac{1}{8}$ T142, R31 thenceN38W 1.00 ch to point of beginning
of traverse of meadow. Thence

Course	Dist.	Sta.	
N49W	4.00	4.P1	Spruce - Tam. on Left
N52W	1.40	" 2	" " " "
N37E	.70	" 3	Ac on Left -
S65 $\frac{1}{2}$ E	.70	" 4	" " "
S7E	.90	" 5	" " "
S41E	1.70	" 6	" " "
S60E	1.10	" 7	" " "
S27E	1.44	to A.P.O.	

Steadland T
Mast -

Oct. 6, 1937

2

Tie - N32 $\frac{1}{2}$ W 1.00 ch.

Computed with 7°30' variation

N44 $\frac{1}{2}$ W	4.00
N47 $\frac{1}{2}$ W	1.40
N41 $\frac{1}{2}$ E	.70
S81 $\frac{1}{2}$ E	.70
S12 $\frac{1}{2}$ E	.90
S36 $\frac{1}{2}$ E	1.70
S55 $\frac{1}{2}$ E	1.10
S22 $\frac{1}{2}$ E	1.44

Meadow Surveys - Sec. 18-142-31

From CW $\frac{1}{2}$ S. 18-142-31 N82°30'E
3.50 chs. to trail. Thence along
trail:

S59½E 1.60 (Corrected from S59½W)

N89E 1.70

S12½E 2.10

S46W 3.40

S26½W 4.00

S40½W 3.40 to Pt. #1

Thence S51½E 1.70 to A.P.O. - Meadow #1

Traverse Meadow #1

S2E 70

S59E 1.50 (1 Stack Hay)

N34E 1.10

N66W 1.20

N85W 85 to A.P.O.

From Pt. #1 continue along trail

S39W 2.60 to A.P.O. - Meadow #2

Traverse Meadow #2

N77W 132 A.P.O.

S55W 1.44 2 (5 Stacks Hay)

S31W 2.54 3

S58½W 2.82 4

S89W 94 5

S23E 1.07 6

S66½E 1.33 7

Steadland π
Mast - drain

10-8-37

4

Steadland?
Mast-chain

Traverse Meadow #2 - S. 18-142-31

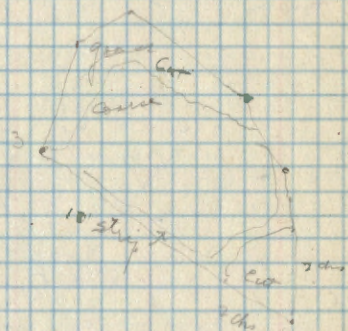
- S78E 1.26 8
- N54E 2.98 9
- N8½W 1.77 10
- N46½E 3.27 to A.P.O. Meadow #2

From A.P. I thence along trail

- S44W 3.60
- S3½W 1.50 to A.P.O. - Meadow #3

TRAVERSE MEADOW #3

- N63W 3.20 A.P. 1 Cutting Sochs. wide APO - APs
- S77½W 1.30 2
- S26W 2.50 " 3 - 3 small stacks
- S50½E 6.30 4
- N1½W 4.00 5
- N2½E 1.15 to A.P.O



Traverse Meadow #2 - 5.18.142-31

S78E 1.26 8
 N54E 2.98 9
 N8½W 1.77 10
 N40½E 3.27 to A.P.O. Meadow #2

From A.P. 7 thence along trail

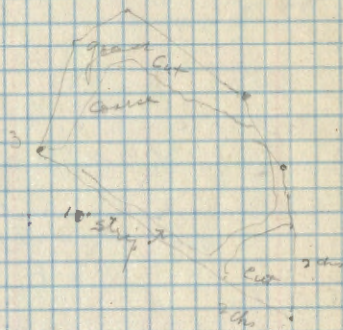
S44N 3.60
 S3½W 1.50 to A.P.O. - Meadow #3

TRAVERSE MEADOW #3

N63W 3.20 A.P. 1 Cutting Sochs. wide A.P.O. - AP3
 S77½W 1.30 " 2
 S26W 2.50 " 3 - 3 small stacks.
 S50½E 6.30 4
 N1½W 4.00 5
 N22½E 1.15 to A.P.O.

Steadland &
 Mast - chain

5



13/18

A
B

APo Meadow #1

APo Meadow #2

APo Meadow #3

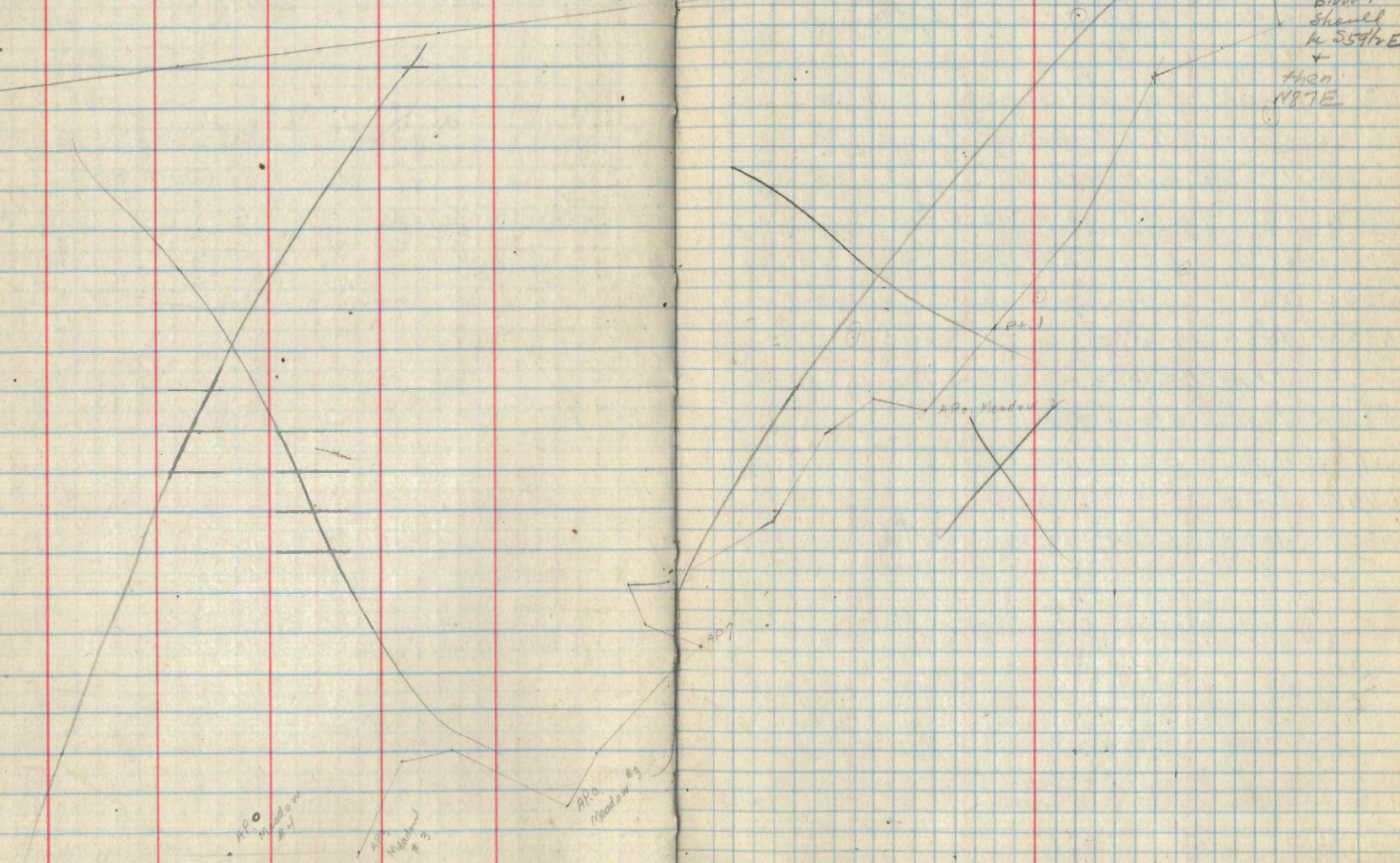
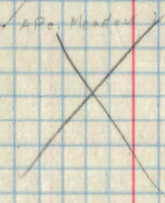
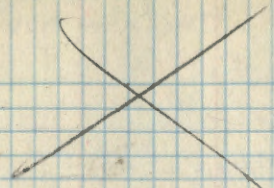
AP7

APo. Meaded

PL1

colln

EMO1
shell
K 5596E
+
then
N87E



Traverse Meadow # 4

From A.P. 3 - Meadow # 3

S 89 W 3.23 to A.P. 0 - Meadow # 4

S 29 1/2 W 1.10 A.P. 1

S 25 E 2.20 " 2 " 1 Stack

N 29 E 1.50 " 3

N 35 W 2.00 to A.P. 0 -

From A.P. 2 - Meadow # 4

S 14 W 1.40 Along bay trail

S 35 W 1.80 to A.P. 0 - Meadow # 5

N 65 W 2.40 A.P. 1 TRAVERSE # 5

S 33 E 2.59 " 2 1 Stack

N 33 1/2 E 1.40 to A.P. 0

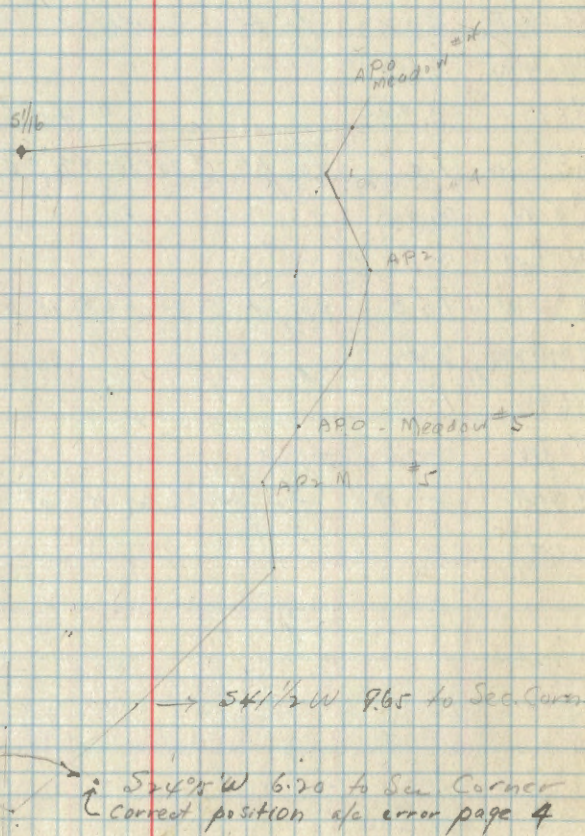
From A.P. 2 - Meadow # 5

S 8 E 1.80 Along trail

S 44 1/2 W 4.00

S 49 W 3.40

N 62 W 1.40 to A.P. 0 - Meadow # 6



Va 7°30'

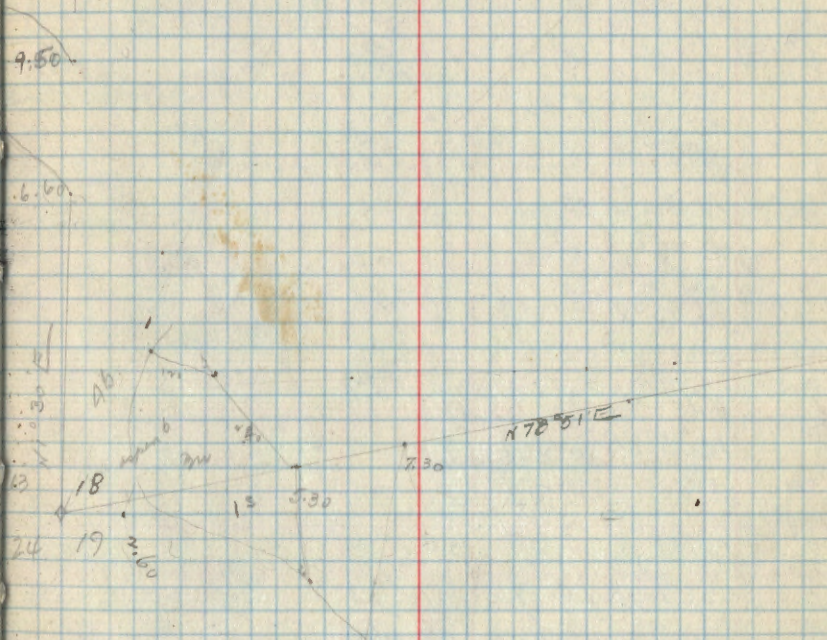
Traverse Meadow #6 - S. 18-142-31
From 2" x 30" I.P. (Co. Corner) which
is SW corner S. 18-142-31, thence
N1°30'E along section line, 6.60 chs.
to meadow.

N1°30'E	2.90	Along Sec. line to NE side meadow
S52E	3.60	
S65½E	3.02	to A.P. - meadow #6 (see page 7)
S40½W	2.00	
S51E	3.30	7 Stakes
S3½E	1.05	to pt. 7.30 chs N78°51'E of Sec corner
S5W	2.90	
N56W	2.00	
N3½W	1.43	to pt. 5.30 chs N78°51'E of Sec Cor
N44½W	2.40	
N69W	1.20	
N28W	2.00	
N37W	2.09	to pt. 6.60 N of corner

Steadland T
Mast - Chain

10-12-37

8



Traverse of Ten Mile Road

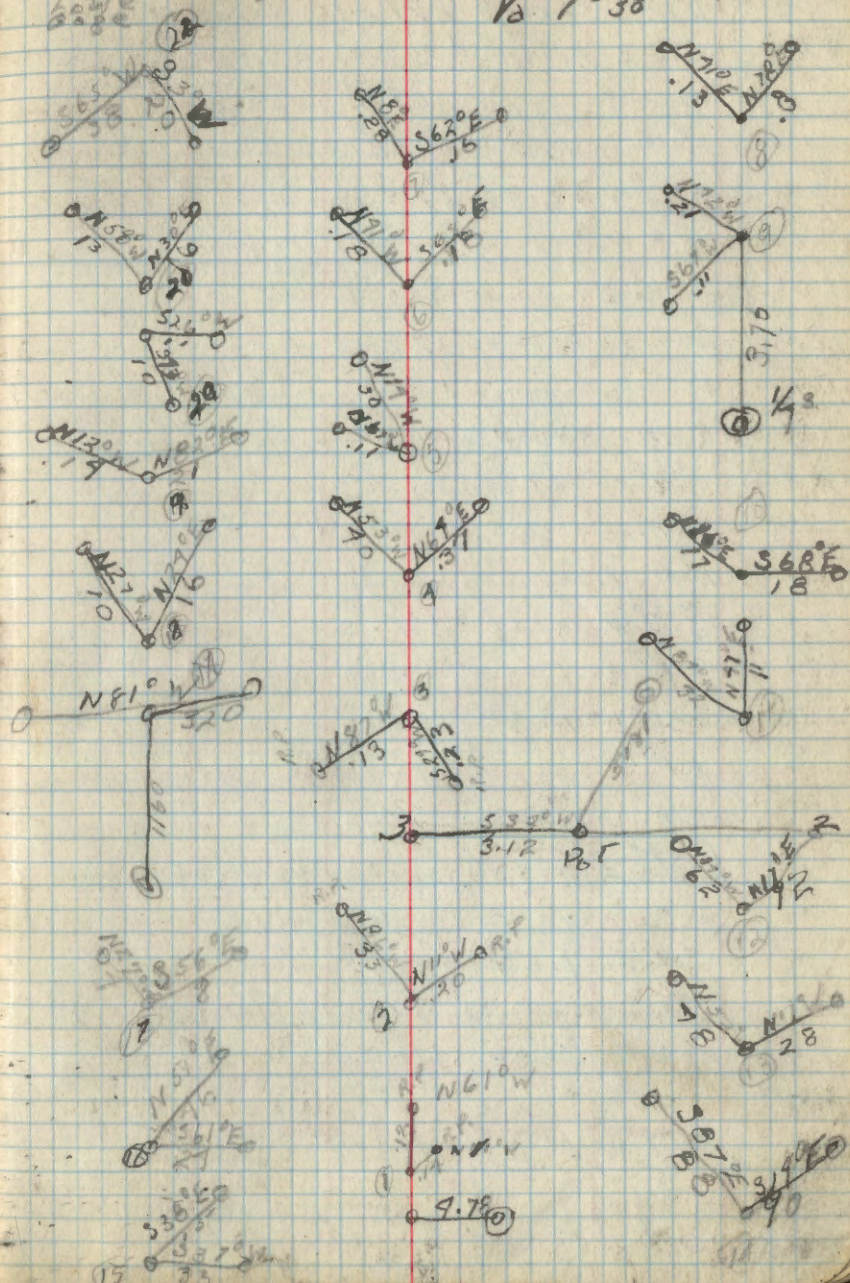
Sta.	Bearing	Dist.	Chain
		16.39	
21	S 89° W	16.52	160.85
20	S 80° W	9.88	177.33
19	S 98° W	5.39	139.75
18	S 88° W	6.97	139.08
17	N 81° W	9.79	127.07 (3.20) 111.60 W.)
16	S 57° W	4.70	117.10
15	S 38° W	4.16	112.40
14	S 68° W	5.50	108.24 ✓
13	N 80° W	4.11	102.74 ✓
12	N 73° W	6.65	98.63
11	S 83° W	3.19	91.98
10	N 98° W	12.07	88.89
9	N 28° W	5.90	78.77
8	N 25° W	6.77	72.87 ✓
7	N 61° W	5.12	65.93
6	N 70° W	3.60	60.81
5	S 67° W	13.75	57.21
4	S 26° W	11.72	43.46
3	S 6° W	5.22	31.79
P.O.T.	S 32° W	7.79	26.52
2	S 32° W	6.93	18.73
1	S 60° W	8.75	11.80
0	N 99° W	3.05	3.05

Johnson
Burr
Longlake
66 W E

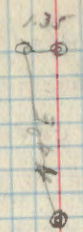
Shankland
Rayland

Jan. 26, 1938 9

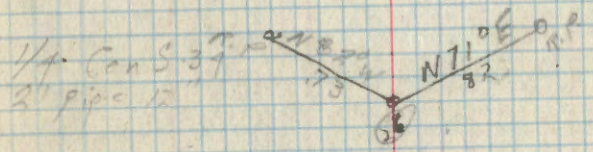
Ka 7030'



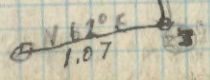
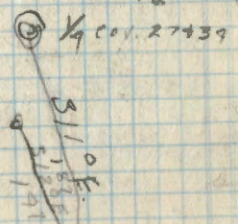
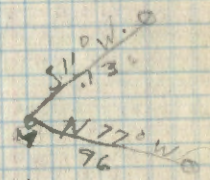
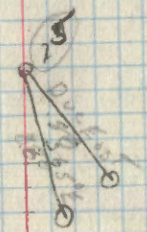
- 30 Due S. 17.13 251.61
Sta 30 is at C.S. 1/6 S. 39 2" pipe 29"
R.P. 3' Aspen N 70° W 891k.
R.P. 2' Aspen S 72° W 551k.
- 29 Due S 8.56 239.98
R.P. 1' Aspen N. 62° W. 511k.
R.P. 2' Birch S 60° W. 621k.
- 28 S 19° E 18.17, 225.92
R.P. Telephone pole N 75° W 781k. R.P. Fire post
Sta 28 is S 85° E 1.031k. or 1/4 C.S. 583° E 701k.
- 27 S 2° W 17.53 207.75
R.P. 2" Birch S 85° W 711k.
R.P. Telephone pole S 10° W 911k.
- P.O.T. S 2° W 6.77 197.19
(Fall 1 ch N 87° W of C.N. 1/6 S. 39)
- 36 S 36° E 10.93 190.22
R.P. 2" Aspen N 91° E 371k.
R.P. Fire post S 53° E 951k.
(Sta. 26 is at junction of right of way & established Township road.)
- 25 S 3° E 1.63 177.79
(Township roads run N. 70° W)
- 24 S 33° W 6.66 176.16
- 23 S 17° W 5.35 171.50
- 22 S 20° E 5.30 166.5



Constructed road leaves right of way
Bear S 73° E



e N 1/6 S. 39
2" pipe 12"



34 Ducw. 3.92 309.19

3 R.P. 2" Aspen 562°E 191ks

R.P. 3" Aspen 853°W 181ks

2" Iron pine N. Pine slump BR 1ks south

37 Ducw. 5.62 305.27

R.P. 6" Aspen 520°W 111ks

R.P. 3" Pin Oak 586°E 671ks

36 587°W 15.77 299.55

3 Sta. 36 is at W 1/6 cov. 5.39

R.P. 3" Birch 520°E 81ks

R.P. 4" Birch 361°W 471ks

35 Ducw. 8.28 283.58

R.P. 6" White Oak 570°E 91ks

R.P. 3" Oak N50°W 79ks

39 86°E 3.16 275.30

Sta 39 is at (9.66 S. 34 - 17.2)

R.P. 12" Aspen N 65°E 771ks

R.P. 6" Oak 578°E 711ks

33 536°W 3.82 272.19

R.P. 16" Aspen N35°W 391ks

R.P. 3" Birch 575°W 361ks

32 958°E 2.09 268.32

R.P. 6" Birch N 45°E 81ks

R.P. 8" Aspen S 12°W 281ks

31 55°E 17.62 266.23

R.P. 6" Aspen 542°W 181ks

~~30 55°E R.P. 2" Aspen N 55°W 211ks~~

251.61

28
372
512
1840

44 N67°W 322 377.98

R.P. 1" Aspen N93°W 311ks

R.P. 19" Norway 522°W 1351ks

43 N87°W 7.95 391.76

R.P. 2" Aspen 540°E 291ks

R.P. 6" Aspen 592°E 821ks

42 577°W 2.97 334.01

R.P. 3" Aspen N70°E 201ks

R.P. 3" Aspen N87°E 281ks

41 N69°W 5.76 330.52

R.P. 2" Aspen N50°W 201ks

R.P. 4" Aspen N50°E 611ks

40 N58°W 7.51 325.56

R.P. 8" J. Pine N60°E 101ks

R.P. 6" J. Pine 580°E 371ks

39 Dve W. 6.86 316.05

R.P. 2" Birch 518°E 371ks

R.P. 2" Birch 523°W 351ks

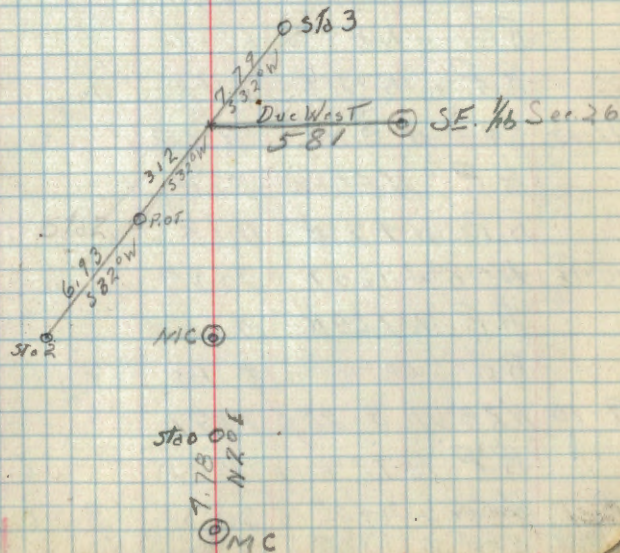
309.19

Traverse of County Road

Sta	Bear. Dist.	Chain
8-9	N25°W 6.99	72.87
	R.P. N91°E	131ks
	R.P. N78°E	81ks
7-8	N61°W 5.12	65.93
	R.P. N8°E	281ks
	R.P. S62°E	161ks
6-7	N90°W 3.60	60.81
	R.P. N71°W	181ks
	R.P. S68°W	181ks
5-6	S59°W 13.75	57.21
	R.P. N19°W	301ks
	R.P. N61°W	111ks
4-5	S26°W 11.72	73.96
	R.P. N53°W	401ks
	R.P. N69°E	371ks
3-4	S6°W 5.22	31.74
	R.P. N87°W	131ks
	R.P. S29°W	231ks
2-3	S32°W 19.72	26.52
	R.P. N91°W 201ks	R.P. N85°W 331ks
	1005 ch. S32°W of Sta 2 is 5.81 ch. E. of S.E. 1/4	
1-2	S60°W 8.75	11.80
	R.P. N61°W	121ks
	R.P. N1°W	191ks
OE1	N79°W 305	305

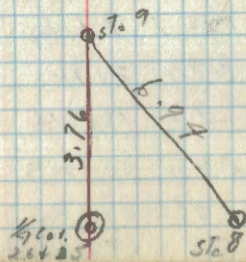
5693
66
3558
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3876

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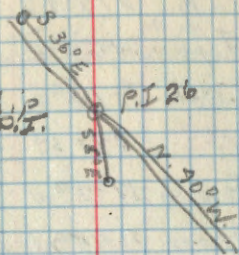
Sta	Bear.	Dist.	Total Chainage
17-18	NB10W	9.99	129.19
	R.P.	N270W	71ks
	R.P.	S56°E	61ks
16-17	S57°W	9.70	119.20
	R.P.	S61°E	241ks
	R.P.	N51°E	961ks
15-16	S38°W	9.16	119.50
	R.P.	S38°E	151ks
	R.P.	S37°W	331ks
14-15	S68°W	5.50	110.39
	R.P.	S87°E	881ks
	R.P.	S19°E	901ks
13-14	N80°W	9.11	109.89
	R.P.	N52°W	981ks
	R.P.	N17°W	281ks
12-13	N73°W	6.65	100.73
	R.P.	N89°W	621ks
	R.P.	N17°E	921ks
11-12	S83°W	3.19	99.08
	R.P.	N89°W	321ks
	R.P.	N77°E	111ks
10-11	N78°W	12.07	90.89
	R.P.	N16°E	171ks
	R.P.	S68°E	181ks
9-10	N28°W	5.90	78.77
	R.P.	N72°W	211ks
	R.P.	S69°W	111ks
	1/4 Cor. S. 26 + 35 is S2°W. 3.76 chains		
8-9	N25°W	6.94	78.87

2.90 ch. NB10W of Sta 17 is 11.60 ch.
 N80°E of Cor. Sec. $\frac{2726}{3795}$ 191-31



Sta	Beat	Dist.	Total Chain.	
26-27	S 36° E	10.45	192.52	
	R.P.	N 82° W	731ks	
	R.P.	N 71° E	921ks	
25-26	S 5° E	1.66	182.07	
2	R.P.	East	801ks	
	R.P.	S 65° E	881ks	
24-25	S 33° W	6.81	180.41	
	R.P.	S 11° W	131ks	
	R.P.	N 77° W	961ks	
23-24	S 16° W	5.41	173.60	
	R.P.	N 62° E	1071ks	
	R.P.	S 12° E	1971ks	
	Sta 23 is 1871ks N 11° W of K cor. S. 21184			
22-23	South	5.37	168.19	
	R.P.	S 42° W	5661ks	
	R.P.	6" ch	S 8° W	201ks
21-22	S 87° W	16.39	162.82	
	R.P.	N 58° W	131ks	
	R.P.	N 30° E	161ks	
20-21	S 80° W	7.80	146.73	
	R.P.	S 26° W	111ks	
	R.P.	S 73° W	101ks	
19-20	S 78° W	5.39	141.55	
	R.P.	N 12° W	171ks	
	R.P.	N 82° E	211ks	
18-19	S 88° W	6.97	136.16	
	R.P.	N 27° W	101ks	
	R.P.	N 29° W	161ks	
17-18	N 81° W	.9	129.19	

New right of way follows old Township road from this P.I.

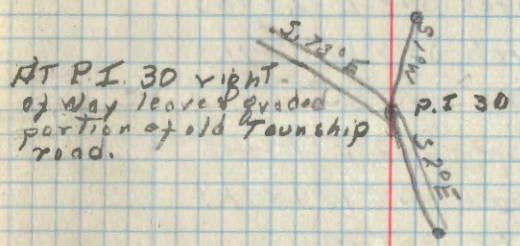


Sta 23 is 1871ks N 11° W of K cor. S. 21184

Station	Bearing	Distance	Total Chainage
35-36	West	8.28	279.93
	R.P. 12" Aspen	N 65° E	77 lks
	R.P. 6" R. Oak	S 78° E	71 lks
34-35	S 6° E	3.15	271.65
	R.P. 3" Birch	S 75° W	36 lks.
	R.P. 16" Aspen	N 95° W	34 lks.
33-34	S 38° W	3.80	268.50
	R.P. 6" Birch	N 95° E	8 lks
	R.P. 8" Aspen	S 12° W	28 lks
32-33	S 58° E	2.09	264.70
	R.P. 6" Aspen	S 42° W	18 lks
	R.P. 2" Aspen	N 55° W	21 lks
31-32	S 5° E	1.96	262.61
	R.P. 3" Aspen	N 40° W	84 lks
	R.P. 2" Aspen	S 72° W	55 lks
30-31	S 1° W	13.05	248.01
	R.P. 7" Aspen	N 62° W	51 lks
	R.P. 2" Birch	S 60° W	62 lks
29-30	S 2° E	8.68	234.96
	R.P. Telephone Pole	N 75° W	48 lks
	R.P. Fence Post	S 83° E	70 lks
28-29	S 9° E	16.07	226.28
	R.P. 2" Birch	S 85° W	71 lks
	R.P. Telephone pole	S 10° W	47 lks
27-28	S 2° W	17.69	210.21
	R.P. 2" Aspen	N 41° E	37 lks
	R.P. Fence Post	S 58° E	45 lks
26	S 36° E	1.45	172.52

Sta. 35 is at $\frac{1}{4}$ C.C. Sec. 34-141-31

Sta 31 is at T.C.S. $\frac{1}{16}$ Cor. Sec. 34-141-31



Sta. 29 is 1.03 Chs. S. 85° E. of $\frac{1}{4}$ Cor Sec. 29-141-31

6.99 ch. S 2° W falls 111 lks W. of C.N $\frac{1}{16}$

Station	Bearing	Distance	Total Chainage
44-45	N 69° W	3.22	370.73
	R. P. 2" Aspen	S 60° E	291ks
	R. P. 2" Aspen	S 72° E	821ks
43-44	N 87° W	7.95	337.51
	R. P. 3" Aspen	N 70° E	201ks
	R. P. 3" Aspen	N 89° E	271ks
42-43	S 29° W	2.99	330.06
	R. P. 2" Aspen	N 50° W	201ks
	R. P. 4" Aspen	N 50° E	611ks
41-42	N 89° W	5.96	327.57
	R. P. 8" J. Pine	N 60° E	101ks
	R. P. 6" J. Pine	S 80° E	171ks
40-41	N 58° W	9.51	321.61
	R. P. 2" Birch	S 18° E	271ks
	R. P. 2" Birch	S 23° W	351ks
39-40	West	6.86	312.70
	R. P. 2" Aspen	S 62° E	191ks
	R. P. 3" Aspen	S 53° W	181ks
38-39	West	3.92	305.24
	R. P. 6" Aspen	S 20° W	111ks
	R. P. 3" Oak	S 86° E	691ks
37-38	West	5.62	301.52
	R. P. 3" Birch	S 20° E	81ks
	R. P. 4" Birch	S 61° W	471ks
36-37	S 87° W	15.97	295.90
	R. P. 6" W. Oak	S 90° E	91ks
	R. P. 5" Oak	N 50° W	791ks
35-36	West	8.28	277.93

Sta 37 is at W 1/16 C.C. Sec. 39

Sta. Boov. Dist.

53-54 N 76° W 1267'

R.P. 6" R. Pine N 5° E 23'

R.P. 19" W. Pine S 37° W 96'

52-53 N 88° W 523'

R.P. 4" Aspen N 11° W 29'

R.P. 6" R. Pine S 77° W 76'

51-52 N 73° W 470'

R.P. 6" R. Oak East 79'

R.P. 6" W. Oak N 58° W 55'

50-51 N 69° W 539'

R.P. 10" R. Pine N 62° E 38'

R.P. 10" W. Pine N 30° E 37'

49-50 N 85° W 319'

R.P. 10" W. Oak S 70° E 89'

48-49 S 85° W 705'

R.P. 10" R. Pine N 67° E 56'

R.P. 6" R. Pine N 72° W 97'

47-48 N 83° W 298'

R.P. 10" R. Pine N 68° W 76'

46-47 N 80° W 539'

R.P. 3" Aspen S 47° E 33' T.

45-46 S 96° W 137'

R.P. 1" Aspen N 79° W 311 Ks

R.P. 18" R. Pine S 22° W 1851 Ks

6/10/38

Johnson X
 Gasse Schultz
 Cassidy Hegel
 Schwab

6/10/38

From Sta. 45 on all measurements are in feet.

2/4/39

Sta 45 is Present end of right of Way.

Sta.	Beav.	Dist.		
65-66	S 9° E	636		
	R.P. 22" W. Pine	S 7° W	79'	
69-65	S 16° W	353'		
	R.P. - Fence Post	S 45° E	23'	
63-64	S 6° E	332		
	NO R.P.s available			
62-67	S 26° E	475		✓
	R.P. 5" Aspen	S 29° W	23'	
	R.P. 4" Aspen	S 79° W	12'	
61-62	S 7° W	300'		✓
	R.P. 14" W. Pine	N 79° E	52'	
60-61	S 57° W	374'		✓
	R.P. 2" Aspen	N 90° W	27'	
59-60	S 22° W	510'		✓
	R.P. 14" W. Oak	N 23° E	36'	
58-59	S 45° E	394'		✓
	R.P. 6" W. Oak	S 86° W	19'	
	R.P. 6" Basswood	S 28° W	8'	
57-68	South	106'		✓✓
	R.P. 4" W. Oak	S 45° W	35'	
	R.P. 12" Bash	N 10° E	72'	
56-57	S 11° E	369'		✓✓
	No R.P.s available			
55-56	S 29° W	322'		✓
	R.P. 6" Aspen	S 77° E	43'	
	R.P. 6" Aspen	S 35° E	45'	
54-55	S 61° W	580'		✓

Sta. 63 hit old secondary auto road.

73-75

R. P. 3" Aspen N70°E 39'

R. P. 550°E 33'

72-73

599°E 287' 8

R. P. 9" Aspen 589°W 13'

R. P. 1" Aspen N70°W 25'

71-72

521°E 393'

R. P. 16" J. Pine N70°E 25'

R. P. 10" J. Pine 565°E 29'

70-71

519°E 187'

R. P. 8" J. Pine N56°E 6½'

R. P. 4" W. Birch 578°W 31'

69-70

531°E 595'

R. P. 2" Birch N82°W 26'

R. P. 3" R. Oak 535°W 25'

68-69

521°E 495'

R. P. 3" W. Birch N61°E 27'

R. P. 4" Aspen N27°E 39'

67-68

510°E 228'

R. P. 3" Aspen N33°E 21'

R. P. 4" R. Oak N81°W 39'

66-67

518°E 399'

R. P. 17" J. Pine 568°W 5'

R. P. 22" W. Pine N22°W 7'

True Var. of Compasses

Compass #1 K+E. #39671 Va. $5^{\circ}30'$
Compass #2 W+L E Gurley Va. $2^{\circ}30'$
Compass #3 K+E #39258 Va. $4^{\circ}30'$
Compass #4 Dietzgen #17338 Va. $4^{\circ}30'$
Compass #5 Dietzgen #19617 Va. $4^{\circ}30'$
Compass #6 K+E. #56 Va. $5^{\circ}30'$
Compass #7 K+E #33663 Va. $4^{\circ}30'$
Compass #8 White #27 Va. 7°
Compass #9 White #37 Va. 3°
Compass #10

Compasses set by checking a True
line running $N 88^{\circ}30' W$ as noted
by G.H.O. All compasses were
set until they read the same.
Checked 2/10/38

A. T. Johnson

	+	H.I	TP TP	-	LINE ELEV
BM ₃₀	3.60				
TP	1.91		11.20		
T.P.	3.0		10.09		
BM ₂₁	8.01			5.56	
				27.65	
				8.01	
				<u>19.64</u>	

BETWEEN 1E/4S AND 2E/4S

July 27, 1938

Profile of Line W.10 - River to Highway

STEARLAND TX

STA	B.S. +	I/I	F.S. -	Elev.
BM.	11.48	1316.48	5	1305.00
2+15			5.9	1310.6
BM, Δ	10.115	1325.14	1.45	1315.03
1+90			9.6	1315.5
Δ	11.04	1334.73 1336.18	1.45	1323.69
1+65			6.8	1327.9 1329.4
Δ	11.73	1345.96 1346.41	0.50	1334.23 1335.68
Δ	10.89	1356.61 1357.06	0.24	1345.72 1346.17
Δ	9.71	1364.91 1365.36	1.41	1355.20 1355.65
1+30			1.74	1363.2 1363.7
Δ	9.79	1373.36 1373.81	1.34	1363.57 1364.02
1+00			4.7	1368.7 1369.1
115			6.1	1367.13 1367.7
105+2+00			7.0	1366.4 1366.8
Δ	11.21	1378.26 1378.71	6.31	1367.03 1367.50
1+00			6.6	1371.1 1372.1
105			3.3	1375.0 1375.4
Δ	8.90	1385.68	1.48	1376.18 1377.23
9+2+00			7.4	1378.3
1+00			3.6	1382.1
Δ	11.16	1395.46	1.38	1384.30
0+30			8.0	1387.5
BM, Δ BL 10W			0.27	1395.19

Water level of Springbee River -

Nail in 6' Aspen - 20' NW Sta 2+15

Hub of base of marker -

JULY 27, 1938

STEADLAND TX

Elevations Along B.L. 10 W to B.L. 1 E

STA	+	H.I.	-	ELEV	
BM ₂	11.62	1406.81		1395.19	Hub at BL/10 W.
Δ	11.41	1417.87	0.35	1406.46	
BM ₃	2.52		2.23	1415.64	BL/9 W.
Δ	10.25	1427.60	0.52	1417.35	
Δ	8.09	1434.55	1.14	1426.46	
BM ₄			7.33	1427.22	BL/8 W.
BM ₅			6.45	1428.10	BL/7 W.
Δ	9.12	1442.76	0.91	1433.64	
BM ₆			3.50	1439.26	BL/6 W.
Δ	8.81	1450.69	0.88	1441.88	
BM ₇			3.77	1446.92	BL/5 W.
Δ	4.04	1452.70	2.03	1448.66	
BM ₈	3.72	1447.06	9.36	1443.34	BL/4 W.
Δ	0.05	1435.58	11.53	1435.53	
BM ₉	10.72		3.47	1432.11	BL/3 W.
Δ	0.29	1425.15	10.72	1424.86	
BM ₁₀			6.00	1419.15	BL/2 W.
Δ	0.54	1421.39	4.35	1420.80	
BM ₁₁			5.34	1416.00	BL/1 W.
Δ	4.02	1420.41	4.95	1416.39	
BM ₁₂	6.82	1419.14	8.09	1412.32	BL/0
Δ	7.07	1426.03	0.18	1418.96	
BM ₁₃			5.05	1420.98	BL/1 E.

PROFILE BL 1E - TO BL 4E

JULY 29, 1938

TROTTER
STADLUND - REP

STA	+	H.I.	T.P.	—	ELEV.
BM 13	505	1426.03			1420.98
1+0			8.90	5.3	1421.7
2+0				8.9	1417.1
T.P.	0.33	1417.46	890		1417.13
2+50				7.2	1410.3
BM 14			8.05	8.0	1409.5
T.P.	0.65	1406.97	11.14		1406.32
1+0				9.2	1397.8
1+30				8.6	1398.4
1+50					
T.P.	0.23	1395.78	11.42		1395.55
1+50				1.7	1394.1
T.P.	0.50	1384.53	11.75		1384.03
2+0				6.2	1378.3
T.P.	1.10	1373.69	11.94		1372.59
2+30				3.8	1369.9
BL/3E			8.4	8.4	1365.3
T.P.	0.60	1362.96	11.33		1362.36
1+0				7.4	1355.6
T.P.	1.00	1352.60	11.36		1351.60
2+0				11.3	1341.3
T.P.	3.99	1345.27	11.32		1341.28
BM BL/4E				4.4	1340.89
TP			11.27		

Hub at Sta BL-1E

R

BL/2E

Ground at BL 4E

PROFILE OF LINE AE

JULY 29, 1938

TROT T &
STARDLUNG - ROD

STA	+	HI.	T.P.	-	ELEV
BM	4.40	1345.27			1340.87
T.P.	1.45	1335.45	11.27		1334.00
T.P.	0.72	1324.31	11.86		1323.59
485				3.66	1320.6
1+0				4.2	1320.1
2+0				5.05	1319.2
2+05				5.88	1318.43
BM 1700			3.81		1320.50

Ground at BL AE

H₂O LEVEL REC LAKE (RECREATION LAKE)
Nail in 8" TAMARACK
12' E. OF STA 2+0

Aug 2, 1938

9W ~~3E~~

Sta	+	H.I.	TP	-	ELEV
B.M.	11.04	1426.68			1415.64
TP	1.29	1427.46	0.51		1426.17
2+50				0.3	1426.2
85				4.9	1422.6
TP	0.69	1417.25	10.90		1416.56
1+0			10.82	6.6	1410.6
T.P.	0.37	1406.80	10.82		1406.43
2+0				11.3	1395.5
T.P.	9.95	1405.48	11.27		1395.53
T.P.	11.15	1414.63	2.00		1403.48
2+80				3.5	1411.1
95				3.2	1411.4
TP	1.83	1405.51	11.95		1403.68
T.P.	0.82	1395.21	11.12		1394.39
1+0				3.1	1392.1
T.P.	1.68	1386.19	10.70		1384.51
2+0				9.6	1375.6
TP	1.78	1377.19	10.78		1375.41
105				10.9	1366.3
TP	3.63	1369.94	10.88		1366.31
ROAD				0.10	1369.8
TP	1.94	1360.77	11.11		1358.83
1+0				6.8	1354.0
TP	7.56	1357.15	11.18		1348.59
1+30				9.0	1348.1

Note: Road crosses at 85 + 2+80

Aug 2, 1938

9 W

~~2 E~~

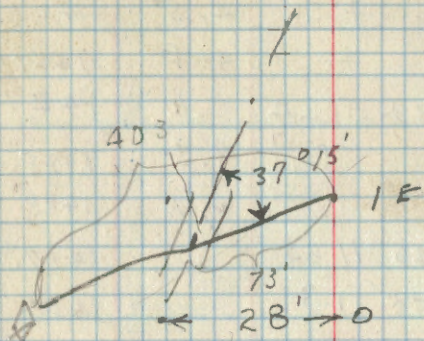
STA	+	HI	TP	-	ELEV
2+0		1357.25		4.6	1352.6
2+70				2.5	1354.7
11.5				7.6	1349.6
3+0					1349.88
T.P.	1.63	1349.51	9.27		1337.72
T.P.	7.18	1344.90	11.79		1335.2
0+50				8.7	1339.7
1+0				4.2	1333.28
T.P.	1.32	1334.60	11.62		1331.3
2+0				3.3	1327.3
2+40				7.3	1322.85
T.P.	0.51	1323.36	11.75		1312.53
T.P.	0.68	1313.21	10.83		1307.3
12.5				5.9	1307.53
T.P.	4.26	1311.84	5.63		1307.63
T.P.	5.01	1312.64	9.21		1305.63
B.M.				7.01	

STREAM-LEVEL

Aug 7, 1938

WIDTH OF HIGHWAY 34 AT

STATION POINTS



← 17' → 1W

← 20' → 2W

← 23' → 3W

← 27' → 4W

← 19' → 5W

← 38' → 6W

← 30' → 7W

← 17' → 8W

← 27' → 9W

← 25' →

← 25' → 10W

PROFILE OF

LINE — BL-0

AUG 1 - 1938
TROT X
SHULTZ-ROD

STA	+	H.I.	T.P.	-	ELEV
BL/O	10.90	1423.22			1412.32
TP	10.54	1432.33	1.43		1421.79
2+28			4.5	4.5	1427.8
IS.			4.8	4.8	1427.5
T.P.	23.0	1429.39	5.24		1427.09
1+0				4.5	1425.
1+50				8.7	1420
TP	0.73	1418.49	11.63		1417.76
T.P.	0.35	1407.53	11.31		1407.18
2+0				4.2	1403.
2+40				8.9	1398.
T.P.	1.88	1397.44	11.97		1395.56
25				11.6	1386
T.P.	1.05	1386.88	11.61		1385.83
T.P.	0.02	1375.24	11.66		1375.22
T.P.	0.57	1363.92	11.90		1363.34
T.P.	0.92	1354.08	10.76		1353.16
1+0				4.4	1350.
T.P.	1.01	1343.49	11.60		1342.48
TP	.87	1333.84	10.52		1332.97
2+0				8.6	1325.
TP	3.13	1326.18	10.79		1323.05
35				3.8	1322.
1+0				4.4	1322.
2+0				4.3	1322.

STA	+0	H.I.	T.P.	-	ELEV
TP	7.10	1328.97	4.31		1321.87
45				4.8	1324.
BM 18	10.93	1336.33	3.57		1325.40
T.P.	9.99	1344.66	1.66		1334.67
0+80				4.7	1340.
1+0				3.1	1341.
T.P.	10.33	1351.89	3.10		1341.56
2+0				4.5	1347.
TP	5.33	1354.18	3.04		1348.85
55				5.6	1348.
T.P.	7.04	1352.45	8.77		1345.41
1+0				7.3	1345.
2+0				4.6	1347
T.P.	3.04	1348.98	6.51		1345.94
65				5.3	1344.
1+0			8.53	8.6	1340
T.P.	3.64	1344.07	8.55	8.6	1340.43
2+0	3		5.9	5.9	1338.
2+50			5.5	5.5	1338.
TP	11.31	1349.88	5.50	8	1338.57
75				5.4	1344.
1+0				1.9	1348
T.P.	5.83	1353.77	1.94		1347.94
T.P.	11.49	1363.22	2.04		1351.73
2+0.				6.0	1357.

B.L/O

NAIL IN 4" ASPEN 8' N.E. OF RL 43

AUG 2-1938

PROFILE

LINE B4/0

AUG 2, 1938

	+		TP	
T.P.	10.96	1372.00	2.18	1361.04
TP	11.49	1382.16	1.33	1370.67
TP	11.45	1392.72	0.89	1381.27
T.P.	11.63	1403.62	0.73	1391.99
85			7.1	1139.7
0+20			2.2	1401
T.P.	3.68	1405.07	2.23	1401.39
1+0			9.5	1395.
T.P.	1.07	1394.30	11.84	1393.23
TP	1.05	1383.06	11.29	1382.01
T.P.	1.26	1372.91	11.41	1371.65
2+0			5.0	1368.
TP	0.74	1363.56	10.09	1362.82
TP	.87	1353.32	11.11	1352.45
TP	.78	1343.03	11.07	1342.25
TP	.49	1332.45	11.07	1331.96
95			3.6	1329.
T.P.	0.33	1320.93	11.85	1320.60
0+80			11.19 11.2	1310.
TP	1.08	1310.82	11.19	1309.74
1+0			4.2	1307.
T.P.	2.17	1305.19	7.80	1303.02
BM,			5.03	1301.16

STREBATA

Aug 3, 1938
TOTT T

PROFILE OF LINE - W -

STA	+	H.I.	TP.	-	ELEV
BM 11	0.64	1416.64			1416.00
1+0				9.6	1407.
2+0				4.5	1412.
TP	2.79	1414.96	4.47		1412.17
TA	7.02	1405.35	10.63		1404.33
2.5				5.8	1400.
T.P	3.72	1397.44	11.63		1393.72
T.P.	0.75	1386.25	11.94		1385.50
TP	0.48	1374.85	11.88		1374.37
1+0				5.8	1369
1+20				10.5	1364
TP	10.64	1375.00	10.49		1364.36
T.P	5.92	1380.58	0.34		1374.66
2+0				2.8	1378.
2+20				4.4	1376.
TP	0.18	1369.35	11.41		1369.17
3.8				9.4	1360.
T.P	0.65	1358.35	11.65		1357.70
TP	0.56	1347.60	11.31		1347.04
1+0				10.5	1337.
TP	17.2	1337.44	11.88		1335.72
TP	1.11	1329.27	9.28		1328.16
2+0				3.4	1326.
4.5				7.8	1321
T.P	6.90	1328.40	7.77		1321.50

AUG 3, 1938

TROUT R

CONT.

PROFILE

1 W

Sta.	T.	H.I.	T.P.	-	ELEV
1+0		1325.40		4.5	1324.
2+0				6.9	1321.
T.P.	10.35	1336.63	2.12		1326.28
5.5				9.5	1327.
1+0				4.2	1332.
2+0				5.9	1330
T.P.	2.39	1333.02	5.93		1330.70
6.5				6.3	1327.
1+0				4.6	1320
T.P.	7.32	1335.86	4.55		1328.54
2+0				4.8	1331.
T.P.	1.64	1326.25	11.25		1324.61
7.5				5.3	1321.
1+0				4.7	1321
T.P.	11.53	1333.08	4.70		1321.55
T.P.	11.97	1343.73	1.32		1331.76
T.P.	11.65	1354.54	0.84		1342.89
2+0				4.2	1350
T.P.	11.23	1365.24	0.53		1354.01
T.P.	11.64	1376.57	0.31		1364.93
T.P.	11.62	1388.11	0.08		1376.49
T.P.	11.77	1398.85	1.03		1387.08
8.5				6.5	1392.3
T.P.	11.81	1409.64	1.02		1397.83

AUG 3, 1938

Trott *

CONT. PROFILE

1 W

STA	+	HI	TP	-	
TP	7.66	1416.50	1.00		1408.64
0+50				7.7	1408
1+00				8.4	1408
T.P.	4.25	1409.38	11.17		1405.13
2+0				4.9	1404.
2+50			11.1	11.50	1398.
T.P.	0.71	1398.63	11.46		1397.92
B.M. ₂₀	1.61	1390.28	9.96	9.96	1388.67
95				7.0	1383.
T.P.	0.79	1379.92	11.15		1379.13
T.P.	0.08	1368.15	11.65		1368.27
T.P.	0.64	1357.16	11.83		1356.92
T.P.	0.14	1345.69	11.61		1345.55
1+0				7.9	1338.
T.P.	0.11	1334.37	11.43		1334.26
T.P.	0.08	1324.39	10.06		1324.31
T.P.	1.31	1314.03	11.67		1312.72
2+0	"			6.4	1308.
T.P.	0.57	1307.86	6.74		1307.29
STREAM			6.48		1301.38

NAIL IN 14" JACKPILE 15' NE OF 1W/95

AUG - 4, 1938

TROTT A

PROFILE OF LINE

8 W -

STA	+	H.I.	T.P.	-	ELEV.
BM 4	0.95	1428.17			1427.22
T.P.	0.72	1417.27	11.62		1416.55
2+0				9.9	1407.37
75				2.9	1414.37
T.P.	0.82	1415.20	2.89		1414.38
0+40				8.3	1406.90
T.P.	0.56	1404.15	11.71		1403.59
T.P.	0.69	1393.16	11.68		1392.47
1+00				2.0	1391.16
T.P.	0.69	1382.85	11.00		1382.16
1+80				7.8	1375.05
T.P.	0.44	1372.85	11.10	11.1	1371.7
2+90				9.6	1362.59
85				4.4	1367.79
T.P.	11.54	1379.38	4.35		1367.84
T.P.	8.40	1386.01	1.77		1377.61
0+80				4.7	1381.31
1+00				4.8	1381.21
1+30				8.5	1377.51
1+80				4.6	1381.41
2+00				5.3	1280.71
T.P.	10.30	1391.04	5.27		1380.74
2+30				10.6	1380.44

AUG 4, 1938
TEST 7

CONTINUATION OF PROFILE OF

LINE

8 W

STA	+	HI 1391.02	TP	-	ELEV.
T.P.	11.55	1400.91	16.8		1389.36
95				9.8	1390.11
0+30				4.6	1395.31
1+0				6.0	1394.91
T.P.	2.15	1394.05	9.01		1391.90
T.P.	0.63	1384.53	10.09		1383.96
T.P.	1.16	1373.96	11.79		1372.80
2+0				2.0	1371.96
T.P.	0.79	1363.21	11.54		1362.42
2+50				3.3	1359.91
T.P.	1.23	1353.49	10.95		1352.26
105				6.1	1347.39
T.P.	1.45	1344.35	10.59		1342.90
0+60				9.1	1335.25
0+80				7.9	1336.45
1+0				11.9	1332.45
T.P.	0.42	1332.92	11.85		1332.50
T.P.	1.17	1323.21	10.88		1322.04
2+0				9.2	1314.01
T.P.	4.64	1318.64	9.21		1314.00
T.P.	4.00	1316.40	6.24		1312.40
115				3.8	1312.60
STREAM			1162		1304.75

NOTE C OF ROAD

7 W

Aug 5, 1938

STA	+	HI	TP	-	FLK
BM 5	0.52	1428.62			1428.10
T.P.	0.78	1417.94	11.46		1417.16
2+0				8.3	1409.6
T.P.	1.73	1408.10	11.57		1406.37
65				11.6	1396.5
T.P.	0.88	1397.34	11.64		1396.46
T.P.	1.77	1387.65	11.46		1385.88
1+0				3.1	1384.55
T.P.	2.48	1381.83	8.30		1379.35
2+0				9.2	1372.63
T.P.	0.86	1373.44	9.25		1372.58
2+50				8.1	1365.34
T.P.	9.59	1381.64	1.39		1372.05
75				7.1	1374.54
0+50				2.3	1379.34
T.P.	2.02	1381.34	2.32		1379.32
1+0				6.2	1375.14
T.P.	1.02	1370.41	11.95		1369.39
T.P.	1.00	1360.69	10.72		1359.69
T.P.	0.88	1350.17	11.40		1349.29
2+0				2.0	1348.17
T.P.	0.54	1339.70	11.01		1339.16
2+40				5.6	1324.10
85				11.0	1318.70
T.P.	4.95	1323.71	10.94		1328.76

7 W

Sta	+	HI	TP	-	
1+0		¹⁹ 1333.3 1333.71		3.8	¹⁹ 1329.91
T.P.	10.53	³ 1340.49	3.75		1329.96
T.P.	9.99	³ 1349.20	1.28		² 1329.21
2+0				8.6	1330.60
T.P.	1.80	³ 1342.39	8.61		³ 1340.59
9.5				2.5	² 1329.89
T.P.	10.41	⁴ 1350.27	2.53		³ 1339.86
T.P.	6.64	⁴ 1355.14	1.77		³ 1348.50
1+0				6.4	1338.74
2+0				6.7	1338.44
T.P.	1.93	⁴ 1350.40	6.67		³ 1348.47
2+20				4.6	1335.80
T.P.	0.36	² 1339.14	11.62		² 1328.78
T.P.	0.72	² 1338.45	11.41		² 1327.73
10.5				10.4	1318.05
T.P.	1.10	¹ 1329.19	10.36		¹ 1328.09
T.P.	3.67	¹ 1324.72	8.14		¹ 1321.05
1+0				4.9	1309.82
T.P.	2.14	⁰ 1320.26	6.60		⁰ 1318.12
Stream			6.72		1303.54 1303.00

ROAD CROSSES HERE

Aug 8, 1938

GW

STA	+	H.I.	TP.	-	ELEV
BM6	7.87	1447.13			1439.26
2+10				4.0	1443.13
55			6.6	6.6	1440.53
0+80				10.0	1437.13
TP.	0.51	1437.59	10.05		1437.08
1+0				2.9	1434.69
TP	1.97	1430.58	8.98		1428.61
2+0				6.2	1424.38
2+10				9.1	1421.48
TP	1.08	1422.56	9.09		1421.48
TP	0.65	1413.03	10.18		1412.38
65				9.6	1403.43
TP	1.22	1403.75	10.50		1402.53
TP	0.36	1392.39	11.72		1392.03
1+0				6.9	1385.49
TP	1.78	1380.36	10.25		1378.58
2+0				7.9	1372.46
2+80			11.02	11.0	1369.36
75				10.6	1369.76
1+0				2.3	1378.06
TP	1.17	1379.88	2.26		1378.71
TP	1.29	1370.96	10.21		1369.67
2+0				5.5	1365.06
TP	0.43	1366.60	11.39		1359.57

6 W - CONT

Sta.	f	H.I.	T.P.	-	Elev.
TP	7.17	1355.30	11.87		1348.13
8S				7.2	1348.10
0+60				3.7	1351.60
1+0				10.8	1344.50
TP	0.93	1345.48	10.75		1344.55
TP		1335.07	11.35	11.4	1334.13
TP			0.94		✓
2+0				10.3	
8.5				8.7	1324.4
TP	11.25	1337.86	8.66		1326.41
TP	2.45	1330.78	9.03		1328.33
2+50			9.6		1321.2
TP	10.89	1346.87	1.68		1335.98
0+80				3.1	1342.47
1+0				2.0	1344.27
TP	0.46	1337.01	10.32		1336.55
TP	2.05	1327.57	11.49		1325.52
2+0				4.9	1323
2+20				10.3	1317
TP	1.73	1319.01	10.29		1317.28
105				5.2	1313.8
TP	1.64	1316.02	4.63		1314.38
1+0				5.3	1310.7

GW - CONT

1316.02

TP 3.31 1313.32 6.01

1310.01

2+0

5.2 1308

11.5.

7.4 1306

T.P 2.95 1308.87 7.40

1305.92

~~4.0~~

STEAM

8.72 1300.15

5W

STA	4	H.I	T.P.	-	ELEV
BM ₇	3.82	1450.74			1446.92
2+75				7.7	1443
2+80				4.1	1447
45				4.6	1446
1+0				8.1	1443
T.P.	3.94	1446.56	8.12		1442.62
2+0				8.1	1438
T.P.	2.06	1440.55	8.07		1438.49
55			2.05	6.0	1435
T.P.	2.07	1436.67	5.95		1434.60
T.P.	1.31	1428.56	9.42		1427.25
1+0				7.4	1421.
T.P.	2.21	1419.48	11.29		1417.27
T.P.	9.94	1426.83	2.59		1416.89
2+0				4.2	1421.
T.P.	9.68	1434.72	1.79		1425.04
2+50				3.8	1431
T.P.	1.69	1425.74	10.67		1424.05
65				1.6	1424
T.P.	1.43	1416.92	10.25		1415.49
T.P.	2.02	1407.19	11.75		1405.17
1+0				7.0	1407
T.P.	1.18	1395.42	10.59		1396.60
T.P.	0.64	1385.22	10.84		1384.58

5W - CONT

STA	+	T.P.	-	ELEV
2+0		17.4 1385.22	10.3	1375.
T.P.	0.71	1375.61	10.32	1374.90
T.P.	1.54	1365.30	11.85	1363.76
2+90			8.2	1357
75			12.0	1353.
T.P.	0.91	1354.26	11.95	1353.35
T.P.	0.86	1343.19	11.93	1342.33
T.P.	0.91	1332.21	11.89	1331.30
1+0			0.9	1331
1+20			5.8	1324
1+50			10.8	1321
T.P.	5.68	1327.12	10.77	1321.44
2+0			5.8	1321
T.P.	9.95	1335.72	1.35	1325.77
T.P.	11.35	1345.53	1.54	1334.18
85			4.1	1341
T.P.	11.89	1355.69	1.73	1343.80
0+60			3.8	1352.
1+00			11.6	1344
T.P.	0.66	1344.79	11.56	1344.13
T.P.	1.74	1334.70	11.83	1332.96
2+0			5.8	1329.
T.P.	11.64	1344.03	2.31	1332.39
T.P.	11.13	1354.54	0.62	1343.41
T.P.	10.86	1364.59	0.81	1353.73
9+05			2.6	1362

C Road

136459

TP	10.97	1374.18	1.38		1363.21
TP	11.33	1383.79	1.72		1372.46
TP	10.51	1393.03	1.26		1382.53
TP	5.19	1397.07	1.15		1391.88
1+0			4.7		1392.
BM ₂₁	4.66	1397.03	4.70		1392.37
TP	0.78	1389.04	8.77	6.	1388.26
↓+30	0			0.8	1388.
↓+70				6.7	1382.
TP	0.60	1378.57	11.07		1377.97
2+0			7.3		1371.
TP	0.02	1367.08	11.51		1367.06
TP	1.62	1356.85	11.85		1355.23
TP	0.23	1345.66	11.42		1345.43
10S			6.4		1339
TP	0.28	1335.52	10.42		1335.24
TP	2.07	1327.40	10.19		1325.33
0+70			5.1		1322.
1+0			4.6		1322
1+20			4.5		1322
TP	2.21	1320.17	9.44		1317.96
2+0			4.1		1316.
11S			5.1		1315.
TP	4.09	1318.81	5.45	5.8	1314.72
TP	0.26	1311.46	7.41		1311.40
1+0			5.0		1306

5W - CONT

Nail in 3" Oak 5' N/W of ⁹H5+1+00
 Aug 15, 1938

Aug 9-1938

5W

1311.46

2+0

7.3

1304

STREAM

9.12

1302.34

2 W 3W

	+	HI	T.P. I	-	ELEV
BM ₁₀	125	1420.40			1419.15
2+80				5.9	1414.
25				6.8	1413
0+30				6.2	1414
T.P.	0.64	1410.05	10.99		1409.41
1+0				8.1	1402
T.P.	1.87	1401.35	10.57		1399.48
T.P.	1.52	1392.41	10.46		1390.89
T.P.	1.29	1383.39	10.31		1382.10
2+0				10.7	1372
T.P.	1.95	1374.65	10.69		1372.70
2+20				6.9	1367.
T.P.	9.77	1383.47	0.95		1373.70
T.P.	10.97	1393.19	1.25		1382.22
35				9.9	1383
T.P.	11.78	1404.26	0.71		1392.48
0+80			1.85	1.8	1402
T.P.	2.36	1404.77	1.85		1402.41
BM ₂₂				2.39	1402.
1+0				6.2	1399.
T.P.	1.41	1394.48	11.70		1393.07
T.P.	1.36	1383.91	11.93		1382.55
T.P.	2.57	1375.19	11.39		1372.62
2				3.3	1372
T.P.	2.92	1366.34	11.77		1363.42
45				9.2	1357.

Nail in 4" Scrub Oak at 0+90

STA	+	H.I	TP	-	ELPV
T.P.	2.36	1359.49	9.21		1357.13
BM ₂₃	2.07	1357.65	←	3.91	1355.58
T.P.	4.28	1350.42	11.50		1346.15
1+0				5.3	1345.
1+50				2.6	1347.
TP	2.62	1350.46	2.59		1347.84
2+0				7.6	1343
TP	2.21	1341.50	11.17		1339.29
5.5				4.2	1337.
1+0				11.4	1330.
TP	3.13	1333.19	11.44		1330.06
2+0				3.7	1329.
T.P.	6.32	1335.80	3.71		1329.48
.65				4.2	1332.
T.P.	6.24	1337.87	4.17		1331.63
1+0				4.7	1333.
2+0				2.0	1336.
T.P.	3.48	1339.38	1.97		1335.90
2+50				4.5	1335.
T.P.	1.93	1330.10	11.21		1328.17
7.5				8.1	1322.
1+0				8.7	1321.
TP	7.11	1327.36	9.85		1320.25
2+0				7.3	1320.

STAB.	UNCORRECTED ANG	TRADIA INTER.	H.I.	DIFF.	
85	28° 55'	1.01	4.2	38.04	1365.40
1+0	29°	2.22	4.2	88.38	1415.74

2.W

Nail in 4" Scrub Oak at 0+20±

ANGULAR INST. CORR = - 55'

RW

1+0	11.56	1427.30		1415.74
1+40			E.2	1425
BMP4			2.26	2.26
T.P.	2.71	1427.82	2.19	1425.11
2+0			6.9	1421.
T.P.	1.88	1422.83	6.87	1420.95
T.P.	1.97	1413.84	10.96	1411.87
.95			7.8	1406.
0+20			10.0	1404.
T.P.	7.87	1419.41	2.30	1411.54
1+0			4.8	1414
T.P.	11.99	1426.55	5.05	1414.36
2+0	H.C.		4.8	1421.
T.P.	1.25	1415.66	11.94	1414.41
T.P.	2.34	1406.19	11.84	1403.85
10.5			2.7	1403.
T.P.	2.08	1396.93	11.34	1394.85
T.P.	2.05	1389.55	9.43	1387.50
1+0			2.1	1387.
2#D			9.8	1380
T.P.	3.62	1383.36	9.81	1379.74
2+30			4.6	1379.
T.P.	1.16	1373.79	10.73	1372.63
T.P.	1.26	1363.46	11.59	1362.20
11.5			X	7.8
T.P.	1.37	1353.22	11.61	1351.85

Nail in 3" Scrub Oak at 1+40 Aug 11

AUG 11

2W

TP	1.51	1343.07	11.66	1341.56
0+90			8.4	1335.
1+0			7.3	1336
TP	8.0	1340.63	10.44	1332.63
		STADIA		
	H, I	- 4.65		
PT		INTERCEPT	DIFF	
1+10	34° 15'	.58	32.41	1308.22
				↓
1+40	2.05	1310.27	R	1308.22
2+0			8.2	1302.
STREAM			10.61	1299.66

Aug 12, 1933

PROFILE

LINE 3E

FROM BL. TO LAKE

STA	+ H.I	TP	-	ELEV
BL/3E	1.82	1367.12		1365.30
1+0			11.1	1356.
T.P.	1.40	1357.45	11.07	1356 .05
T.P.	1.20	1347.14	10.51	1346 .94
2+0			10.2	1337.
T.P.	1.89	1338.84	10.19	1337 .95
T.P.	2.16	1329.89	11.11	1327 .73
15			6.1	1324
0+10			9.4	1320
T.P.	3.02	1323.53	9.38	1320 .51
1+0			5.6	1319
LAKE			5.88	1317.65
BM ₂₅			3.45	1317.65

NAIL HEAD SET IN BASE OF 10' TREE AT 0+80

Dec 12, 1938

PROFILE OF LINE 4 W

STA	+	H.I.	TP	-	ELEV.
BM _B	11.08	1454.42			1443.34
0+60				11.3	1443.
0+75				3.0	1451
1+0				3.5	1451
2+0				7.3	1447.
TP	2.32	1449.40	7.34		1447 .08
45				5.5	1444.
T.P.	0.88	1439.43	10.85		1438 .55
1+0				10.1	1429
TP	1.06	1428.52	11.97		1427 .46
TP	0.78	1418.21	11.09		1417 .43
1+80				7.4	1411
2+0				4.1	1414
TP	1.72	1408.96	10.97		1407 .24
55				7.6	1401
0+02				9.0	1400
0+08				6.8	1402
T.P.	1.13	1398.43	11.66		1397 .30
T.P.	6.68	1394.42	10.69		1387 .74
1+0				10.9	1383.
2+0				5.5	1389.
65				3.5	1391.
T.P.	0.27	1385.81	8.88		1385 .54
TP	0.24	1376.86	9.19		1376 .62

BL/W

12' Ravine Perpendicular to Line

4W-CONT

STA	+	H.I.	T.P.	-	ELEV.
1+0		1376.86		4.4	1372.
T.P.	0.59	1368.05	9.40		1367.46
T.P.	0.76	1357.48	11.33		1356.72
T.P.	1.27	1348.21	10.54		1346.94
2+0				4.2	1344.
T.P.	1.25	1338.79	10.67		1337.54
2+20				1.2	1338
T.P.	1.71	1328.85	11.65		1327.14
75				8.0	1321.
T.P.	3.91	1324.76	8.00		1320.85
1+0				3.7	1321.
T.P.	11.72	1334.21	2.27		1322.49
1+50			0.56	11.7	1322.
T.P.	9.52	1343.17	0.56		1333.65
2+0				5.7	1337.
2+10				4.3	1339.
T.P.	8.48	1340.70	10.95		1332.22
85				9.7	1331.
T.P.	11.96	1351.49	1.17		1339.53
T.P.	11.71	1362.37	0.83		1350.66
T.P.	11.66	1372.65	1.38		1360.99
1+0				4.9	1368.
T.P.	11.28	1382.49	1.44		1371.21
T.P.	11.85	1393.20	1.14		1381.35
T.P.	11.93	1404.16	0.97		1392.23

C OF ROAD

		1404.16			
TP	11.87	1414.71	1.32		1402.84
Z+0				4.0	1411.
TP	11.77	1425.52	1.96		1413.75
TP	5.58	1429.50	1.80		1423.72
95				4.0	1424.
B.M. 26	2.94	1429.17	3.07		1426.23
I+0				3.4	1426.
TP	2.65	1420.41	3.41		1425.76
TP	0.44	1417.58	11.27		1417.14
T.P.	0.31	1405.95	11.94		1405.64
Z+0				3.6	1402
TP	0.55	1396.63	9.87		1396.08
TP	0.97	1385.89	11.71		1384.92
105				9.6	1376.
TP	2.10	1378.34	9.65		1376.24
TP	0.47	1367.70	11.11		1367.23
TP	2.04	1357.98	11.76		1355.94
I+0				4.6	1353.
I+80				12.5	1345.
Z+0				11.96	1345
Z+50				10.2	1348.
TP	1.36	1349.11	10.23		1347.75
115			10.2	10.0	1339
TP	0.79	1339.89	10.01		1339.10

4 W- CONT

WALL IN TRUNK OF 4" SCRUB OAK 20' SW OF 95
 AUG 15, 1938

4 W

STA	+	H.I.	TP	-	ELEV
		1339.81			
TP	1.14	1329.67	11.28		1328.53
T.P.	0.18	1318.06	11.79		1317.88
0+90				5.1	1313.
1+0				7.2	1311.
T.P.	0.95	1313.19	5.82	.	1312.24
2+0				5.2	1308
TP	4.64	1312.68	5.15		1308.04
STREAM			7.24		1305.84

Aug 15 1938

3 W -

PROFILE LINE

STA	+	H.I.	T.P.	-	ELEV
Bl/3W	3.08	1435.19			1432.11
2+				4.7	1430
2+40				6.6	1428
T.P.	6.65	1438.92	2.92		1432.27
3 S				4.1	1435
T.P.	9.77	1448.23	0.46		1438.46
1+0				3.7	1444.
T.P.	3.32	1448.36	3.19		1445.04
2+0				4.2	1444.
2+70				7.2	1441
T.P.	1.81	1438.99	11.18		1437.18
4 S				4.1	1435
T.P.	0.62	1429.76	9.85		1429.14
T.P.	0.73	1419.21	11.28		1418.48
T.P.	1.19	1408.92 +406.54	11.48		1407.73
1+0				4.3	1405
T.P.	0.56	1399.41 1397.23	9.87		1399.05 1396.67
1+50				10.9	1389.
T.P.	0.99	1389.74 1387.36	10.86		1388.75 1386.37
2+0				11.0	
T.P.	1.51	1379.44 1377.06	11.81		1377.93 1375.55
2+0				2.6	1374
T.P.	1.09	1368.80 1366.42	11.73		1367.71 1365.33
5 S				11.8	1357.
T.P.	1.74	1358.70 1356.32	11.84		1358.96 1354.58

1350.70
1356.72

1+0	*			11.9	1347.
TP	2.97	1349.74 1347.36	11.93		1346.77 1344.39
2+0				5.7	1344.
65				9.0	1341.
TP	3.31	1344.05 1341.72	8.97		1340.74 1338.39
1+0				4.8	1339.
TP	2.84	1341.66 1337.37	5.23		1338.82 1336.47
2+0				6.1	1336
BM ₂₇	0.27	1338.56 1336.21	3.37		1335.29 1335.94
2+40				6.5	1332.
TP	1.36	1329.70 1327.35	10.22		1328.34 1325.99
75				4.9	1325.0
0+20				8.7	1321.
1+0				9.5	1320.
2+0				9.8	1320
TP	11.62	1333.12 1330.79	8.18		1321.52 1319.17
2+50				11.6	1323
TP	11.87	1344.89 1342.54	0.12		1333.02 1330.67
85				3.0	1342.
TP	11.98	1356.29 1353.92	0.58		1344.31 1341.94
TP	11.96	1367.94 1355.57	0.31		1355.98 1353.61
TP	11.94	1379.71 1367.34	0.17		1367.77 1365.40
TP	11.88	1391.17 1378.80	0.42		1379.29 1376.92
TP	10.04	1400.44 1388.07	0.77		1390.40
1+0				7.1	1393.
TP	5.92	1405.05 1392.68	1.31		1399.13 1396.72

3 W - CONT

1 1/2' Pine Post AT 1+80
Aug 16. 1938

STA	+	H. I	T P	-
H 70		1392.64		3.9 1388
2+0				7.2 1385
TP	0.11	1397.51	7.65	1397.40.22
2+70				6.1 1391.
TP	11.12	1405.89	2.74	1394.77
95.				2.6 1403.
TP	10.92	1415.77	1.04	1404.85
TP	11.99	1426.43	1.33	1414.44
0+60				7.3 1419
1+0				3.8 1422
2+0				4.6 1422.
TP	1.19	1423.02	4.60	1421.83
2+60				7.8 1415.
TP	0.51	1412.18	11.35	1411.67
105				7.2 1405
TP	0.84	1403.98	9.04	1403.14
TP	0.41	1393.54	10.85	1393.13
1+0			11.31	11.3 1382
TR	1.01	1383.24	11.31	1382.23
TP	0.12	1372.45	10.91	1372.33
2+0				7.5 1365
TP	0.68	1364.82	11.31	1364.04
TP	0.11	1354.82	10.11	1354.71
TP	0.75	1345.26	10.31	1344.51
TP	1.51	1335.66	11.11	1334.15
MS				1.5 1334.

3 W - CONT

1335.66

~~1322.41~~

0+30			9.3	1326.
0+40			10.2	1325
0+70			8.9	1326
TP	0.53	1327.26	8.93	1326.73
TP	0.94	1315.70	10.62	1316.64
1+0			4.4	1311.
TP	4.14	1311.32	8.45	1307.25
2+0			5.9	1306.
Stream			9.26	1302.13

3 W CONT.

✓ ~

Aug 16, 1938

PROFILE

LINE

1 E.

STA	+	H.I.	T.P.	-	ELEV.
SL /IE	2.91	1423.89			1420.98
TP.	0.86	1414.56	10.19		1413.70
TP.	0.54	1403.29	11.81		1402.75
1+0				8.6	1395.
1+30				11.6	1392.
TP	5.98	1397.67	11.60		1391.69
2+0				4.1	1394.
2+60				4.7	1393.
TP	0.17	1388.65	9.19	9.5	1388.48
TP.	1.09	1378.94	10.80	10.	1377.85
1+0				8.5	1370.
TP	1.21	1368.18	11.47		1367.47
2+0				8.0	1361.
TP	1.93	1360.82	10.59		1358.09
TP	1.29	1349.82	11.42		1348.60
2S				9.1	1341.
TP.	1.67	1340.79	10.77		1339.12
BM. 28	3.26	1333.34	10.71		1330.08
0+90				8.4	1325.
1+0				8.2	1325.
TP	10.26	1341.49	2.11		1331.23
2+0				4.3	1337.
TP.	3.61	1334.22	10.88		1330.61
2+90					
3S				6.4	1328.

2' ASPEN AT 6+70 NAIL IN BASE

Aug 18

STA	+	H. / V. ²	T.P.	-	ELEV
T.P.	11.45	1343.72	1.95		1332.27
1+0				3.8	1340.
T.P.	4.61	1346.68	1.65		1342.07
1+20				4.6	1342.
2+0				7.4	1339
T.P.	11.70	1356.16	2.22		1344.46
4S				2.6	1353.
BM ₂₉				4.39	1351.77
T.P.	9.77	1365.25	0.68		1355.48
1+0				5.8	1361
2+0				3.2	1362
T.P.	3.79	1365.83	3.21		1362.04
2+50 55				6.2	1360
55				4.4	1362.
1+0				6.3	1360.
2+0				3.0	1363.
T.P.	7.30	1370.16	2.97		1362.86
65				3.3	1367
1+0				8.2	1362
T.P.	2.23	1364.18	8.21		1361.95
2+0				5.7	1358.
T.P.	11.45	1374.89	0.74		1363.44
75				10.6	1364.
T.P.	11.44	1385.24	1.09		1373.80
1+0				5.2	1380
1+60				1.8	1383.

1E - CONT

SCREW IN BASE OF
3' DEAD POPLAR 12' NW OF 45/1E

1 E CONT.

STA	+	H.I.	T.P.	-	ELEV.
2+0		1385.24		4.3	1381.
T.P.	1.09	1381.99	4.34		1380.90
T.P.	0.60	1372.28	10.31		1371.68
T.D.	1.33	1341.76	11.85		1360.43
BS				4.1	1358.

STADIA

STA	R	AT	0 + 10	HI. = 5.3	
1+0	1.09	22° 35'	22° 32'	Diff	
		22° 30'		48.71	1317.87
				43.89	1321.05
T.P.	1.28	1319.15			1312.35
T.P.	2.01	1314.36	6.80		1315.53
2+0				2.0	1312.
9S				5.1	1309.
T.P.	1.88	1311.15	5.09		1309.27
1+0		1314.33			1312.45
T.P.	0.93	1308.64	3.44		1308
Stream		1311.82	8.98		1307.71
					1310.89
					1299.66
					1302.84

PROFILE OF LINE 2E

STA	+	H.I.	T.P.	-	ELEV.
BL/RE	2.01	1411.51			1409.5
T.P.	0.86	1400.47	11.90		1399.61
0+80				1.1	1399.
1+00				7.1	1393
TP	0.92	1390.27	11.12		1389.35
TP	0.76	1379.94	11.09		1379.18
TP	0.69	1371.23	9.40		1370.54
2+0				5.7	1365.
TP	0.15	1359.91	11.47		1359.76
IS				8.6	1351.
TP	2.47	1351.43	10.95		1348.96
TP	0.39	1341.51	10.31		1341.12
1+0				2.4	1339.
2+0				6.9	1335
TP	2.40	1334.05	9.86		1331.65
Z6				4.1	1330.
TP	1.30	1324.67	10.68		1323.37
1+0				4.8	1320.
2+0					
2+0				4.2	1320
TP	10.24	1330.74	4.17		1320.50
2+40				11.0	1319.
TP	7.22	1336.80	1.16		1329.58
3S.				3.3	1334
0+50				9.4	1327

2 E - CONT.

STA	+	H I	TP	-	ELEV.
TP	11.88	1346.67	2.01		1334.79
TP	11.87	1357.95	0.59		1346.08
TP	10.21	1367.66	0.50		1357.45
Z+0				8.9	1359.
Z+20				4.4	1363.
TP	8.77	1374.73	1.70		1365.96
BM ₃₀				← 3.596	1371.13
45				4.2	1371.
BM ₃₀	4.38	1375.51			
1+0				8.9	1366.
TP	4.91	1371.55	8.87		1366.64
Z+0				5.1	1366.
55				4.6	1367.
TP	5.81	1372.81	4.55		1367.00
1+0				5.0	1368.
Z+0				3.8	1369.
TP	7.08	1376.12	3.77		1369.04
TP	9.55	1383.64	2.03		1374.09
65				7.2	1376
0+40				4.9	1378.
0+80				10.3	1373
1+0				8.5	1375
TP	40.1	1379.15	8.50		1375.14
1+50				← 8.4	1371
TP	7.48	1385.14	1.49		1377.66
Z+0				5.3	1380

1385.14

7S			11.3	1374
T.P.	1.60	1375.43	11.31	1373.83
1+0			6.1	1369.
T.P.	8.12	1377.44	6.11	1369.32
2+0			5.8	1371
2+40			5.5	1371
2+70			11.0	1366.
T.P.	6.34	1372.75	11.03	1366.41
BS			4.8	1367.
0+40			7.3	1365.
1+0			3.9 5.6	1369.
T.P.	2.77	1370.04	5.48	1367.27
T.P.	0.23	1359.43	11.84	1359.20
2+0			6.7	1353.
T.P.	0.77	1349.56	10.64	1348.79
T.P.	0.19	1337.89	11.86	1337.70
9S	1.4		11.9	1326
T.P.	1.47	1327.45	11.91	1325.98
1+0			10.5 10.68	1317.
T.P.			10.55	1316.90
SWAMP AT		93 + 1+0		

2 E CONT

PROFILE OF LINE FROM BM₃₀

BM ₃₀	3.89	1375.02		1371.13
T.P.	11.78	1384.93	1.87	1373.15
1+0			6.4	1379
2+0			3.8	1381.
T.P.	5.16	1387.62	2.47	1382.46
BM ₃₁			3.33	1384.29
3E/4S			4.4	1383.

TO LAKE

T.P.	3.33		11.23	
BM ₃₁	3.33	1387.62		
T.P.	2.00	1378.39	11.23	1376.39
2+0			7.8	1371.
T.P.	2.41	1370.31	10.49	1367.90
T.P.	1.60	1360.43	11.48	1358.83

STADIA

H.I. = 4.1'

AT 1450±				
1+00	INT			DIFF
	4.3	30° 5'		19.05
5+ Hill	8.2	31° 15'		40.88
				<u>1319.55</u>

0+50	4.53	1324.08		
LAKE			6.52.	<u>1317.56</u>

LINE 3E SOUTH FROM BM₃₁

BM ₃₁	3.77	1388.06	3.77	1384.29
1+0			5.2	1383.

TO 3E/4S THENCE TO LAKE

NAIL IN BASE OF 4' SECUR OAK 25' SE OF STAKE 3E/4S

		1388.06			
B	2+0			7.6	1380
T	5.5			11.4	1377
	T.P.	3.36	1380.01	11.41	1376.65
2	1+0			4.8	1375
T	2+0			2.7	1377
B	T.P.	6.04	1384.27	17.8	1378.23
3	6.5			5.3	1379
	T.P.	6.07	1386.16	4.18	1380.09
	1+0			6.0	1380
B	2+0			7.5	1379
T	T.P.	1.42	1380.08	7.50	1378.66
2	T.P.	0.93	1371.06	9.25	1370.13
T	7.5			6.8	1364
T	T.P.	1.05	1360.80	11.31	1359.75
	T.P.	0.42	1350.53	10.69	1350.11
	1+0			6.5	1344
A	T.P.	11.29	1360.10	1.64	1348.89
1	T.P.	11.49	1371.15	0.52	1359.66
B	2+0			2.9	1368
	T.P.	11.89	1381.90	1.14	1370.01
0	2+5.0			5.6	1376
L	8.5			3.6 3.7	1378
	T.P.	11.06	1390.95	2.01	1379.89
	1+0			6.3	1385
B	2+0			9.8	1381
1	T.P.	0.92	1382.04	9.83	1381.12

1322.04

T.P.	1.00	1372.68	10.36	1371.68
95			6.9	1366.
T.P.	1.40	1364.18	10.03	1362.65
IP	1.30	1354.00	11.43	1352.70
1+0			9.8	1344.

STADIA

H. I. - 4.8

To 2+0	INT. 1.30	14° 55'	37.32	13 16.68
--------	--------------	---------	-------	----------

TP 1	2.80	1319.48		
105			7.9	1311
TP	2.41	1312.15	9.74	1309.74
TP	1.88	1307.24	6.79	1305.36
STRENA			2.86	1298.38

3 E CONT.

From Hy #34 & Howard Lake Road.

Traverse of " " "

S 3° W	270.0	✓
S 11½° E	719.0	✓
S 28½° W	466.0	✓
S 76° E	121.0	- to trail leading SE

Thence traverse of trail.

S 43½° E	241.0	✓
S 73° E	257.0	✓
S 83½° E	151.0	✓
N 15½° E	75.0	✓
S 71½° E	67.0	✓
S 57° E	189.0	✓
S 26¼° E	160.0	✓
N 82° E	140.0	✓
N 35¼° E	300.0	RP# "A" ✓
N 19½° E	216.0	" "B" ✓
N 3° E	160.0	" "C" } =
N 5° W	130.0	" "D" } + 3°
N 38° E	140.0	" E-End Trail } - 5½°

S 55½° E	84.00	-13° N. edge River - S 55½° E	104'
S 15° W	157.0	Along foot of slope	→ W

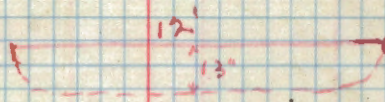
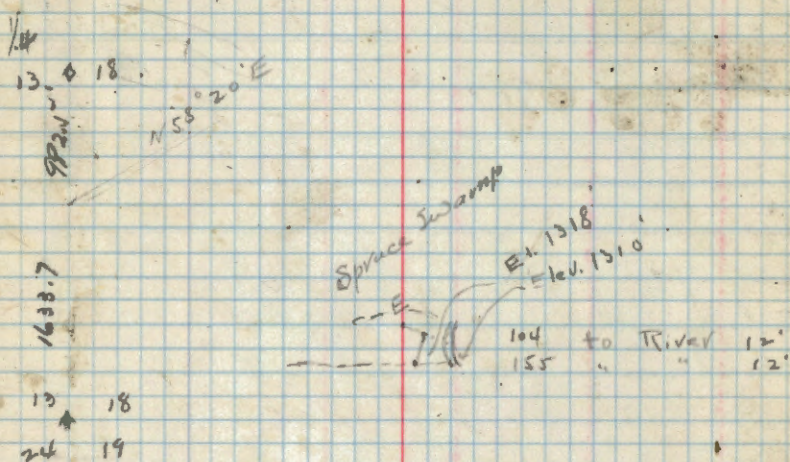
Thence West

76'	+ 21° = 134°	50'	- 0°
35'	+ 5° = 135°	40'	- 11°
20'	- 0°		
74	- 9°		

Approx Sec. line

to ledge Spruce Swamp

31 for 28°
44 " 31°



Speed of River = 2' in 2.25"

x	146"
x	12
x	24"

Shingabea Area - Computations

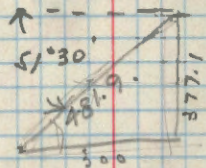
← at SW -

$$\begin{array}{r} 481.9 \\ 62251 \overline{) 309.000} \\ \underline{249.604} \\ 50.9960 \\ \underline{49.8008} \\ 119.570 \\ \underline{62251} \\ 57.2690 \end{array}$$

$$\begin{array}{r} 78261 \\ 482 \overline{) 156522} \\ \underline{156088} \\ 313044 \\ \underline{317218} \\ 5771 \end{array}$$

377.1

$$\begin{array}{r} 313.0 \\ 64.2 \overline{) 209.0} \\ \underline{300.1} \\ 377.2 \end{array}$$



T. 141 N R. 28 W

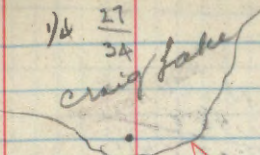
4LO

27 26
34 35
S 89° 39' E
40.52

N 89° 42' E
21.25 21.25

35

#86



Iron Mon.

92° 1331.6' ft.

I.M.

Res. Line

1237.9

Iron 179.2

S 79° 30' E

Mon.

1/4 Sec. 34

1/4 Sec. 34

Iron Pin

Stone Mon.

850ft ±

76041

894.5

300.00000
228.123

71.8770

68.4369

344.010

304.164

398.460

← at BL-5H

40'30"

396.5

1.72

300.

253.3

296.6

$$\begin{array}{r} 3.25 \\ 1.25 \\ \hline 6.75 \\ 2.25 \end{array}$$

← at BL-7W

417.0

44°00'

x70

-89.67

300.0

2.125

7.515

-5.390

4.02

9.410

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES $\frac{1}{2}$ TO 1.

FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

5.9

19.1

300.7

320.30

295.2

188.1

4.2

2.7

197.4

190.8

36.18

307.5

1.24