

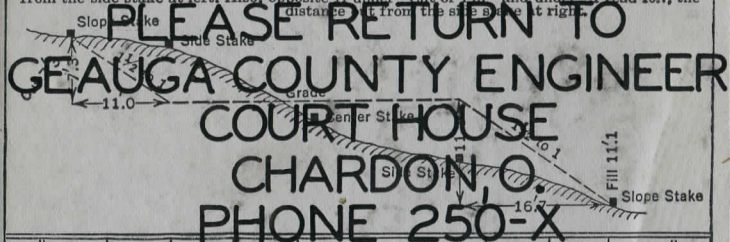
467

K & F
FIELD BOOK
F 360

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DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
Roadway of any Width. Side Slopes 1 1/2 to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

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For Curve Tables see end of book.

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Sisson Rd Culvert^{TH 75}
outlet drainage

1950 Pg 65-66
C.N. 26 Drainage Problem Pg 68 Morgan Rd ✓
C.N. 40 " " Pg 68 Phillips Rd ✓
C.H. 42 Drainage problem Pg 69 Under Rd ✓

"DELVING AT JUDGES GULCH" by Pomeroy Pg 1 TH 77
" 70

County Line Rd proposed reloc. at
Judds Gulch (prelim. levels) pg 70

Burrows Rd (#60-C) 1955 Pg 71-75
Culvert Elev'ns

Fairgrounds Bldg location Pg 76
for fair way

INDEX

C.H. 40 Philips Road Sec A (1943) ✓ 3-13
(1951) 68

C.H. 41 Sidley Road Sec. C (1943) 14-24

C.H. 46 CHARDON-MENTOR RD.
Storm Sewer 1944 25-29

TH 100 Mont. - Thomp. TWP LINE ✓
Levels 1st hill NW of 528 (1944) 29-32

TH 67 LEGGETT RD. DRAINAGE ✓
(Vicinity of Leggett-Nemeth Pl.) 33-36

TH 110 PRINCETON RD (Culit ✓
± 200' S of Chard-Wind. Rd) 37-37

C.H. 42 Thomp. Ctr. E. Rd (Cont'd ✓
top 6) 38-41

TH 90 Fullertown Rd Ext. ✓ 51

Chagrin River Reloc ✓
43-50
52-58

C.H. 52 Thomp. Ctr E Soundings 59-60
Sidley Rd (C.H. 58, Sec. A) ✓
Levels on bridge outlet
± 1/2 mi. N. of S line Thompson) 61-64

BRIDGE AT S. Abutment.

Span (abut. to abut) 33'

Ctr bridge seats $\pm 14''$ back

top deck to FL 23'

bottom bridge to FL 21'

Roadway 13.85'

Width S abut. top 17.00'

" " " bottom 23.00'

6 layers stone

depth (horiz.) of cor stones

2nd layer up = $\pm 3.5'$

$\pm 7''$ batter W side

$\pm 7''$ face abut. (bottom) to rock overhang

approx. same E side

18" rock overhang to point of
greatest recess of rock ($\pm 2.5'$ up
from rubble; 5' down from bottom
tier. E side

22" rock overhang to point of
greatest recess of rock $\pm 3.5'$ up
from rubble

± 11.3 bottom of bot. stone W side

to rubble (should hit solid

footing at ± 12.8

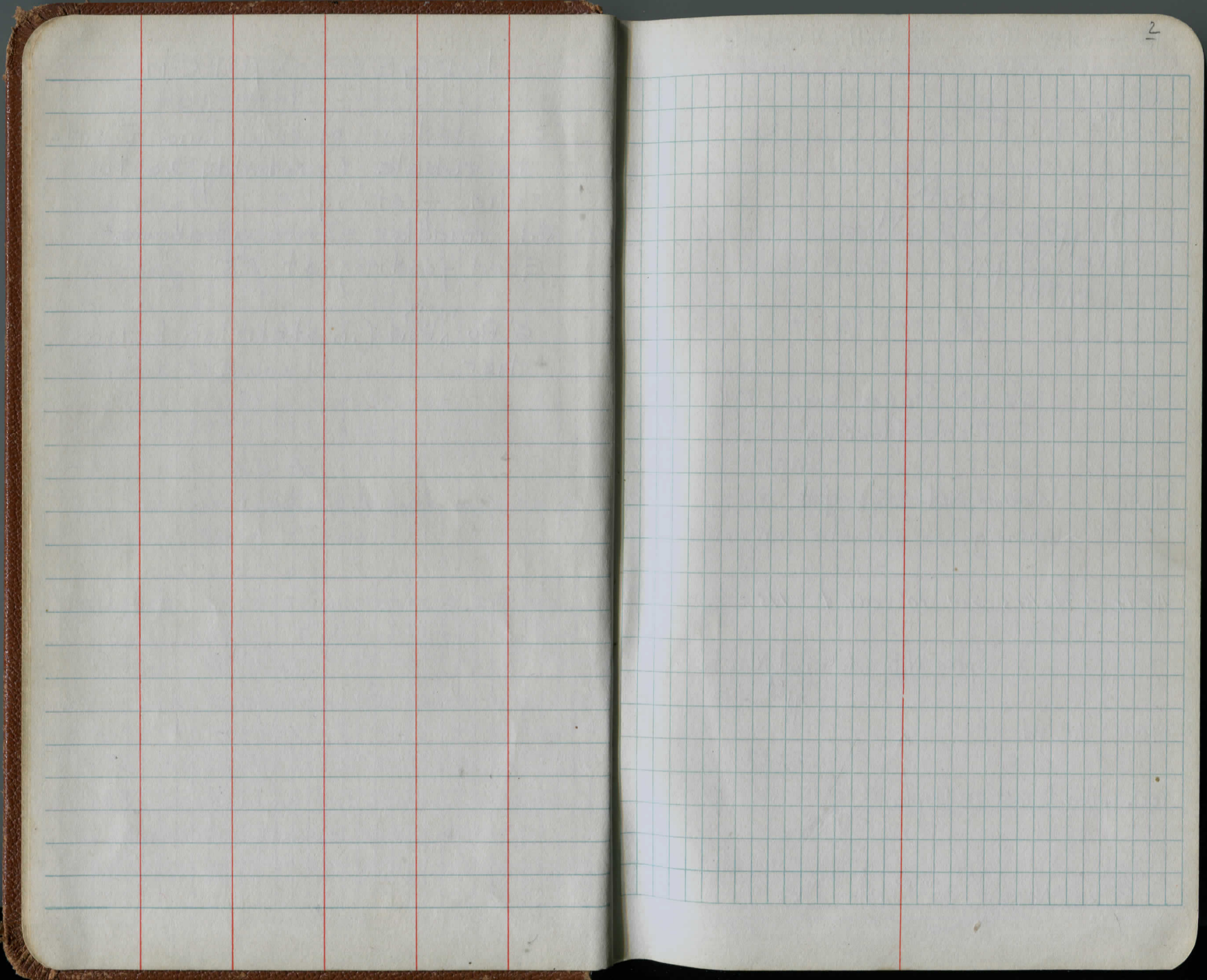
JUDGE'S GULCH

$\pm 6.5'$ bottom of bot. stone E side
to rubble (probably 9.5 to
solid footing)

8.1 middle same as above

Good footing at 8.5

6" Au. ^{horiz} above (in at ctr) in bottom
tier



11-30-43 Pom - E. Hall - J. Ranzles

12+58⁶⁰ P.O.T

R.R. spike set

C.H. #40
PHILIPS ROAD
THOMPSON

2+62⁵

2 1/2' x 3' Stone box O.K.
Plank flooring

Note: Stakes set 25' off E
" Chaining not accurate for private
surveys.

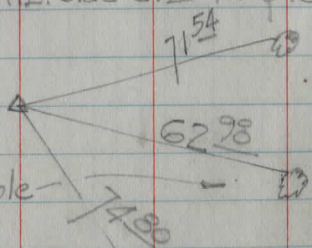
Note Stakes set 30' off E 1957

Spike N.E. side end Maple

0+0 I.P. fd

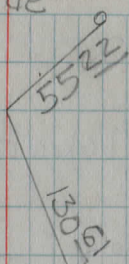
Vert. spike E root 28" Maple

Spike N root 30" Maple



Spike S.W. side C.E.I. pole

192194



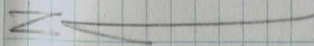
Spike N side

C.E.I. pole

566809



Note: Green says this col'd not large enough

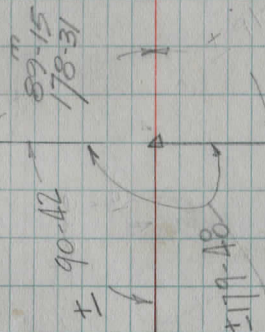


±E7

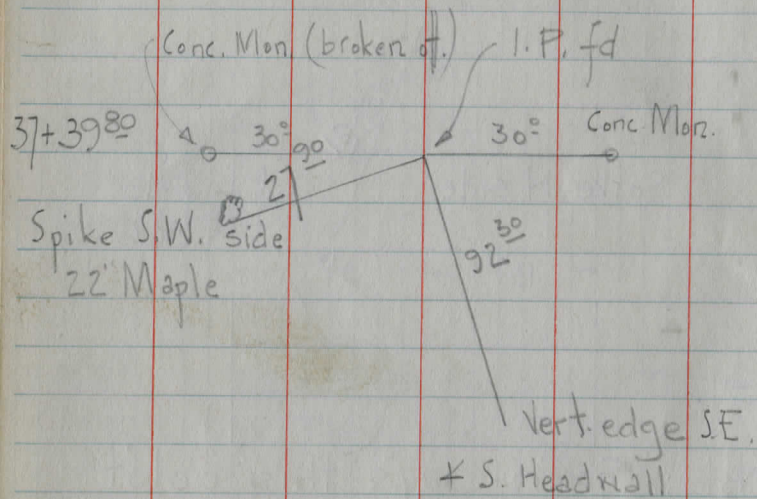
SIDLEY

±E7

ROAD

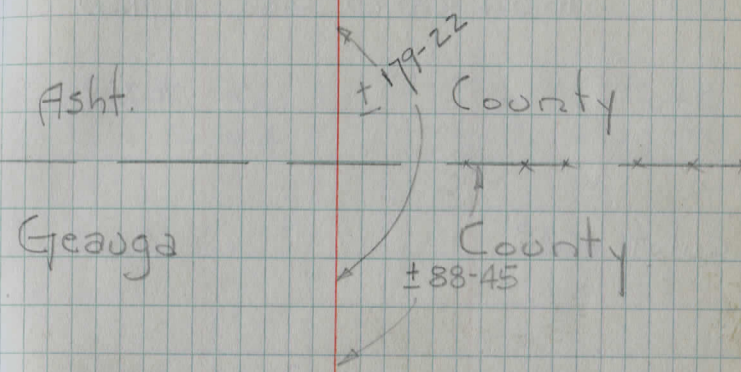


Dickerman



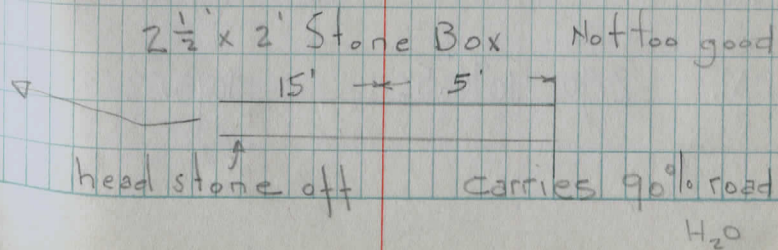
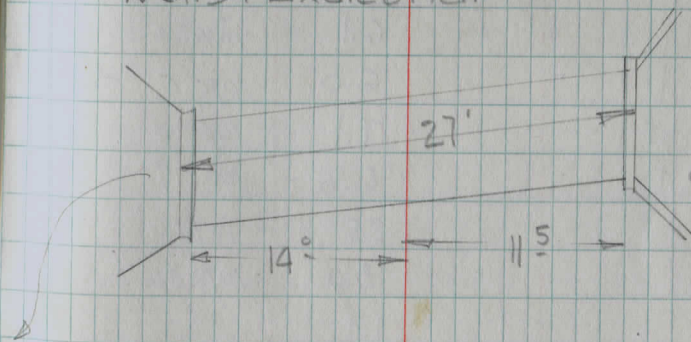
36+25²

31+51⁵



15' x 4'

Conc. Slab Top culit. Stone side
Walls. Exc. cond.



SECTIONS

T.P. 10.54 1085.23 0.86 1074.69

3 to 1071.1

culot +62⁵ 1070.5

2 to 1069.8

T.P. 5.40 1075.55 6.37 1070.15

1 to 1070.3

inlet N cul. 6.1 1070.4

outlet N cul. 6.0 1070.5

outlet S culot 7.1 1069.4

inlet S culot 6.8 1069.7

100 W 2.5 1074.0

100' S 3.0 1073.52

100' N 1.7

0 to 4.2 1072.3

B.M. 2.90 1076.52 1073.62

PHILIPS ROAD

NORTH

SOUTH

7.0 5.9 4.4 4.8 4.4 4.1 4.4 5.1 5.7 4.6 4.5 2.7 3.8
30 21 16 12 10 4 5 6 9 14 20 30

12.1 6.6 5.0
FL Hedl 2
13'

6.8 12.1
Hedl FL
9'

8.3 7.9 7.3 6.4 5.5 5.7 6.7 6.8 6.3 8.0 6.1 6.2
30 23 18 14 5 5 6 9 16 20 30
14 18

6.9 6.8 7.2 7.3 6.7 6.1 6.2 6.9 5.9 6.9 8.2 6.1 5.9
30 20 18 15.5 14 4 6 8 18 19 24 30
21

U.S.G.S. B.M.

12+0 1092.5

11+0 1092.0

10+0 1091.6
T.P. 7.12 1097.27 1.83 1090.15

9+0 1090.4

8+0 1088.3

7+15 1086.3

B.M. 6.13 1085.85
6+0 1083.9
T.P. 8.64 1091.98 1.89 1083.34

5+0 1081.2

4+0 1075.1

1085.23

5.0 5.0 5.8 4.8 6.0 5.1 5.3
25 13 11 9 11 30
30

5.6 6.2 5.7 5.3 6.3 5.6 6.1
25 12 10 9 12 30
30

6.1 6.5 5.6 5.7 6.8 6.1
25 12 4 7 10 30
30

1.3 1.5 2.6 1.5 1.6 2.4 1.6 1.3
25 16 12 4 7 9 30
30

2.7 3.0 4.6 3.6 3.7 4.6 3.3 2.8 2.7
25 16 13 3 7 9 15 30
30

4.7 4.4 5.6 6.6 6.1 5.7 6.7 5.4 4.9 4.7
25 20 14 13 10 7 9 15 30
30

Spk S root 24" Maple 6+07 Lt 30'
1.2 8.3 9.5 8.9 8.1 9.0 8.0 7.2 7.0
25 13 12 11 7 9 13 30
30

2.9 2.7 3.6 5.2 4.6 4.0 4.9 2.9 2.1
25 20 14 12 11 8 11 30
30

6.0 5.7 10.9 10.4 10.1 10.8 11.4 4.9 5.3
25 19 10 8 6 8 17 30
30

20 to		76.2		1073.4
B.M.			1.77	1081.18 ✓
19 to		89.9		1078.9
T.P.	1.4	1082.95	12.37	1081.81
18 to		84.3		1082.8
17 to		86.7		1086.1
16 to		1089.1		1088.7
15 to		90.8		1090.8
T.P.	0.32	1094.18 ✓	3.41	1193.86 ✓
14 to				1092.5
13 to				1093.0
		1197.27 ✓		

6.7	6.4	9.7	8.7	9.0	9.5	10.3	5.3
0	7	12	17	21	26	29	39
-5							55
Spike NE root 15" Hemlock 19+25 R±25'							
2.0	1.9	4.1	3.6	3.5	4.0	4.5	1.3
0	7	16	15	19	24	29	37
-5							46
							50
9.9	10.1	11.7	11.1	11.0	11.4	11.9	9.9
0	8	11	17	21	26	31	35
-5							44
7.5	7.4	9.0	8.3	8.1	8.7	9.3	7.5
0	11	12	17	22	27	32	34
-5							55
5.1	5.4	6.3	5.7	5.5	5.9	6.6	5.3
0	11	18	18	22	28	32	34
-5		13					44
							55
3.4	3.6	4.4	3.8	3.4	4.1	4.6	3.7
0	12	14	18	23	30	33	34
-5							46
							50
SHK K40 Quit 12-1-43							
4.6	4.9	5.7		4.8	6.0	5.3	5.6
25	13	11			8	10	30
30							
4.4	4.4	5.0		4.3	5.4	4.8	4.9
25	13	11			9	11	30
30							

BM 450 1057.35 ✓

28+0 56.5 1057.4

+85 53.0

27+0 57.9 1057.6

26+0 59.4 1059.0

T.P. 1.90 1061.85 10.65 1059.95

25 60.5 1060.9

24

24 62.3 1062.5

23 64.5 1064.9

22+0 66.8 1066.9

T.P. 0.44 1070.60 12.79 1070.16

21+0 69.8 1069.4

1082.95

Spike S.E. root 26" Elm 28+10 Lt ± 70

5.3 5.1 4.6 4.4 5.5 6.8 5.0 5.4
 0 9 16 20 29 32 37 55
 -5

± 30' 60' Tile 7

3.9 4.5 3.6 3.3 4.2 5.4 3.7 4.2
 0 5 13 20 27 31 34 44
 -5

2.4 2.6 2.1 1.9 2.8 4.1 2.5
 0 9 13 20 27 31 33 55
 -5

10.1 10.1 9.3 8.9 9.7 11.4 9.8
 0 5 12 20 27 32 34 55
 -5

34 F.L. Field tile

8.3 8.1 7.4 7.3 8.1 10.3 8.8 8.3
 0 9 14 19 27 32 34 45 55
 -5

6.1 5.5 6.3 5.6 5.4 5.7 6.6 5.8 6.3
 0 8 10 16 19 25 30 34 44 55
 -5

3.8 3.5 4.3 3.4 3.1 3.7 4.6 3.8 3.6
 0 9 11 16 20 26 30 33 43 55
 -5

13.1 12.8 13.8 13.2 12.9 13.5 14.2 13.0 12.7
 0 9 11 16 21 26 30 34 44 55
 -5

36 52.6 1054.2

T.P. 2.56 1058.96 3.00 1056.40

35 53.7 1054.2

34 55.0 1054.7

33 54.4 1054.5

32 54.0 1054.5

+51.5 1054.8

31+0 54.5 1055.2

F. 4.20 1059.40 6.65 1055.20

30+0 54.8 1055.7

29+0 56.3 1056.3

1061.85

52.8 54.2 53.5 51.3 52.9 2
6.4 6.2 4.8 5.5 7.7 6.1
-5 11 25 36 41 47
55

5.7 7.3 5.9 5.2 5.8 7.5 5.7
8 12 17 24 36 41 48
55

4.4 4.6 6.0 4.7 6.6 4.6
-5 8 11 24 38 44 Level

5.0 5.7 4.9 6.2 4.9 4.7
-5 13 24 35 41 55

5.4 5.3 4.9 5.7 5.2 5.0
-5 13 22 30 36 55

50.1 50.8 51.4 51.8 51.1
8.8 8.1 7.3 4.6 51.1
300 200 F.L. 7.7
FL

4.9 4.2 5.1 6.6 5.3 5.0
11 21 30 33 37 46
55

7.0 6.7 6.2 6.1 6.9 8.7 7.2
-5 10 16 22 30 36 38
55

6.4 6.7 5.7 5.5 6.4 8.2 6.4
-5 8 15 21 30 32 38
55

Nearby level — A

B.M. 5.77 1053.19

Co. line 53.5 1054.2

37 53.0 1054.1

1058.96

Spike S.E. foot 24" Elm 36+40 Lt 25'

5.5	5.7	6.4	5.2	4.8	5.6	6.3	5.0
0	8	12	16	20	35	37	42
							55

6.0		6.7	5.6	4.9	6.5		5.4
0		12	12	15	26	38	41
-5							55
6							

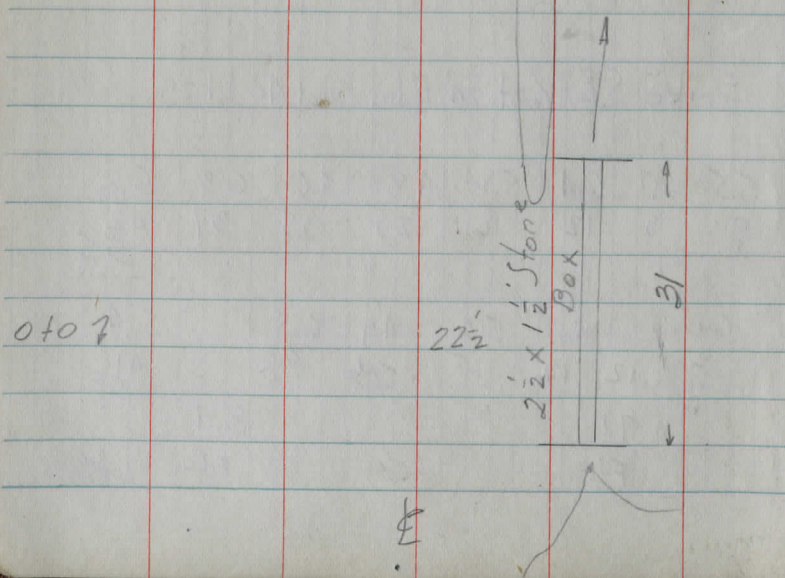
9.1 FL 8.4 FL 1050.6

12-7-43
 Por.
 Hall
 Randles +

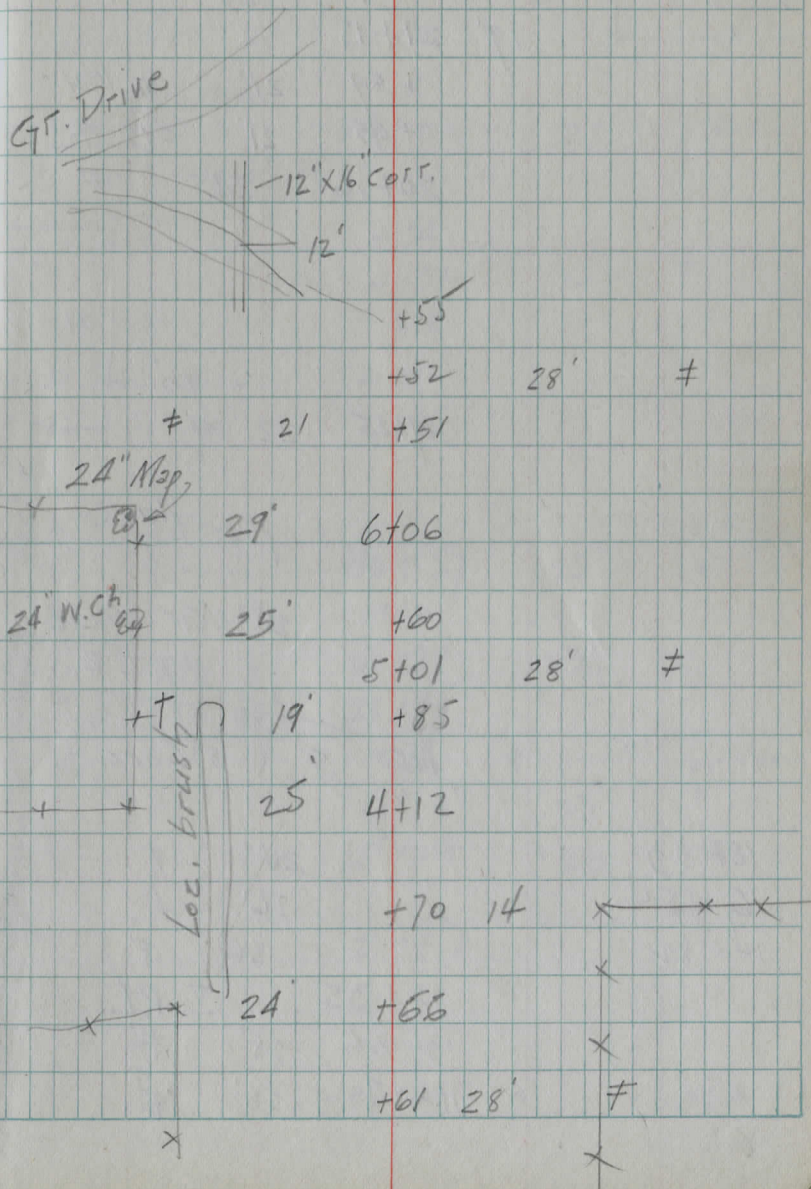
TOPOG

	18'	+42 24	15" Map.
		+28	
		3+17 25'	18" Map
		2+93 24.5	24" Map
		+93 9'	
		+88 27'	24" Map
		+80 28'	≠

	22'	+71	
	21.5'	+71	Light brush
1+62		29.5'	24" Map.
+86		29.5'	12" Map. N.G.
+60		29.5'	15" Map. N.G.
0+27		28'	≠



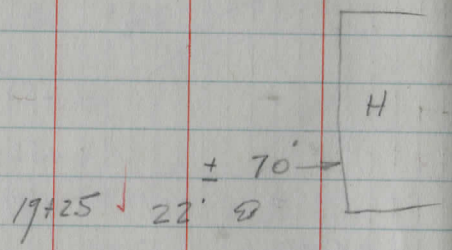
7+58	28'	≠
7+82	28'	≠



		+55	
		+52	28'
		+51	≠
24" Map.	21		
	29'	6+06	
24" W.Ch.	25'	+60	
		5+01	28'
		+85	≠
	19'		
	25'	4+12	
		+70	14
		+66	
	24'		
		+61	28'
			≠

2 wire bar back
x x

23+52 23' #
 23+46 ditch
 +90 23' #
 19' 21+18
 +59 21' 10" Wal
 +45 21' 15" Wal.
 20+06 24' #

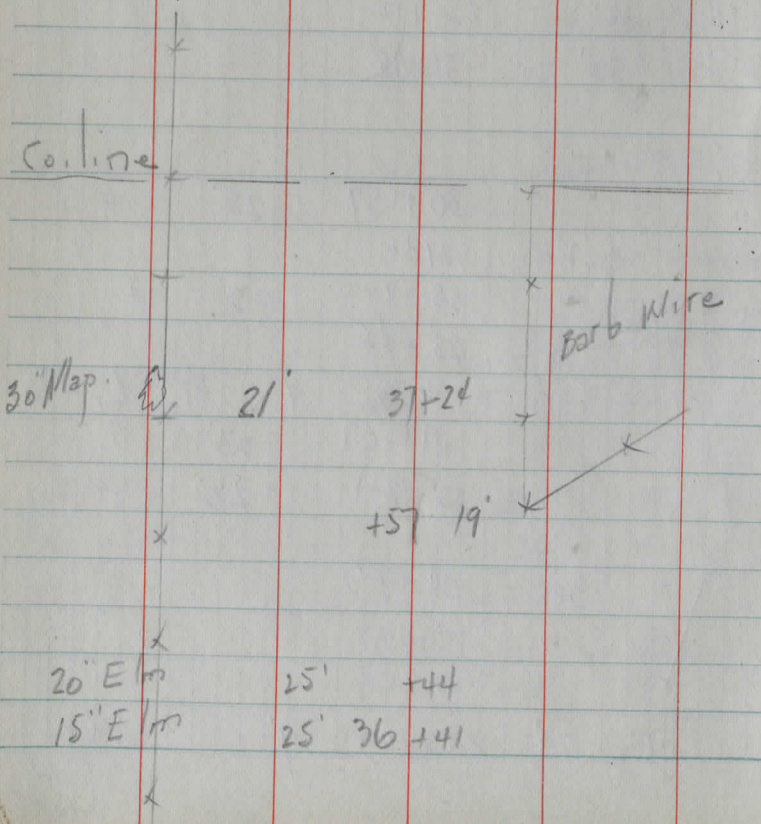


plank
 24 Gr drive
 up ± 2'
 +66 5' 8" Corr.

18+33 24' #
 16+54 26' #
 14+82 26' #
 13+35 ± P.L.
 13+06 28' #
 11+27 28' #

20" Elm 29' 36+07
 35+84 26' #
 30" Elm 23' +69
 G.D. boulder 16' +68
 34+06 25' #
 Woven wire
 23'
 27' +94
 P.L. x
 +32 25' #
 10" Ash +21
 10" Hick 32' 32+12
 12" Ash 32' 31+95

Begin old rail fence
 brush (heavy) x
 21' 30+57 25' #
 29+0
 28+90 23' #
 12" Oak 28' 28+15
 +78 9' string or tile
 27+07 23' #
 25+24 ± 23' #
 30' 24+23
 21' 24+03 9' outlet
 4" field tile



12-8-43
Pom Hall Randles

SIDLEY ROAD

6+24

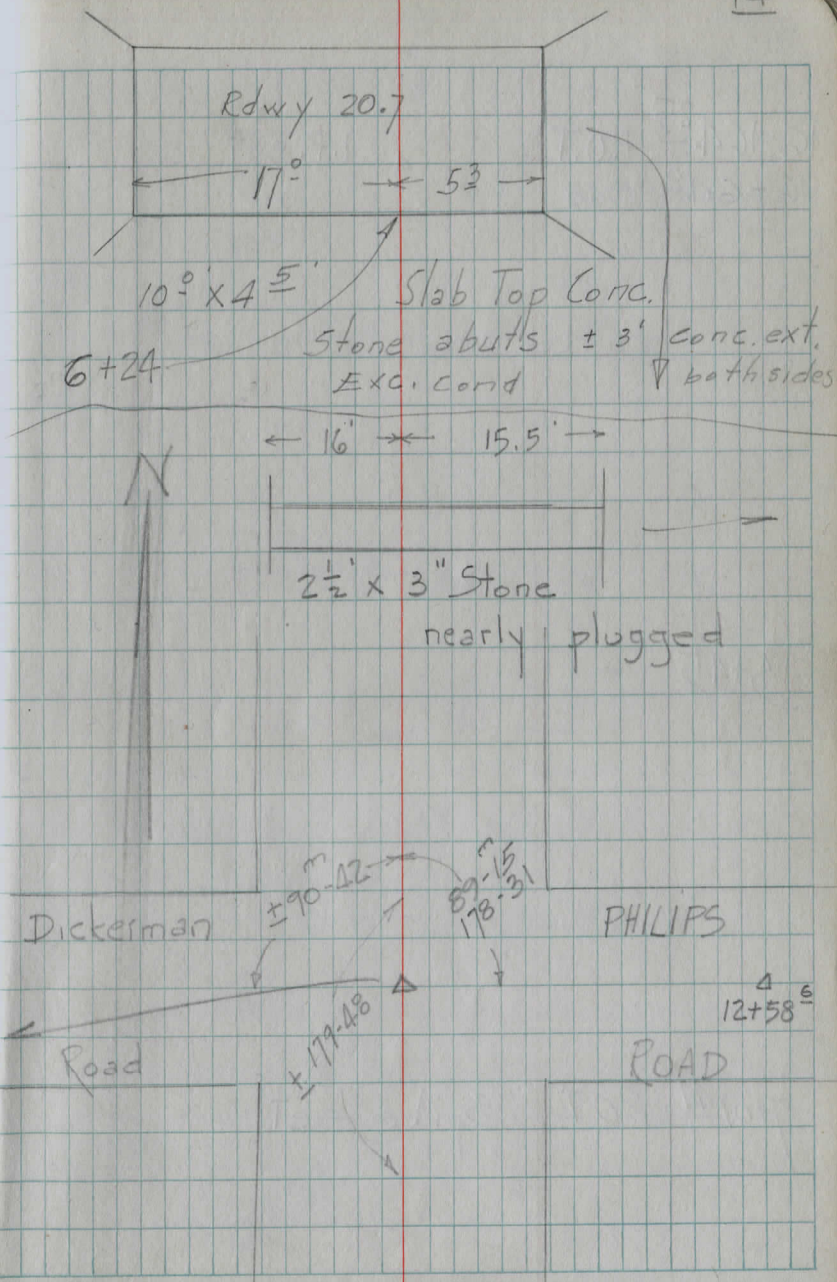
0+26⁵

0+0

△ I.P. fd See ref
pg 3 this book

stakes set 25 Lt

" " 30' " 1948

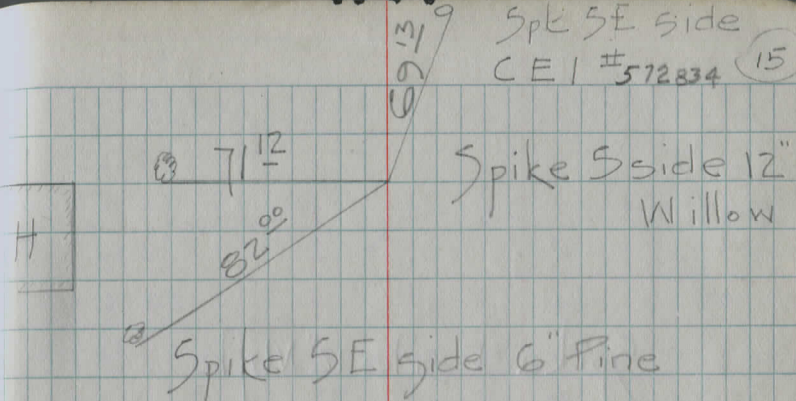


16+64²⁵ P.O.T
16+64⁹ 1948

4 I.P. set

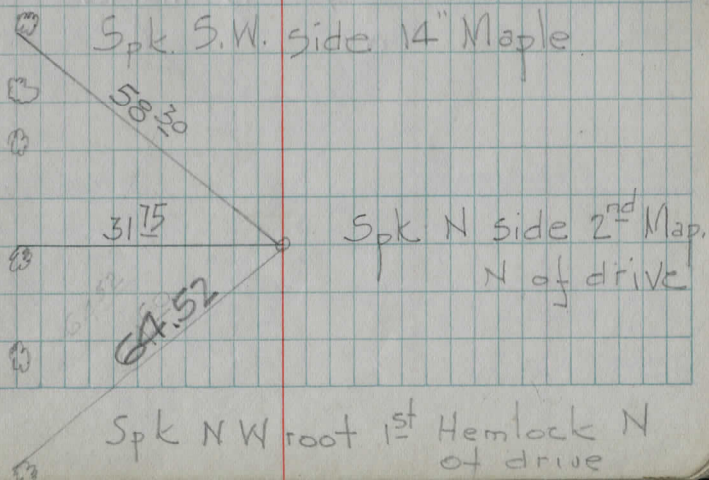
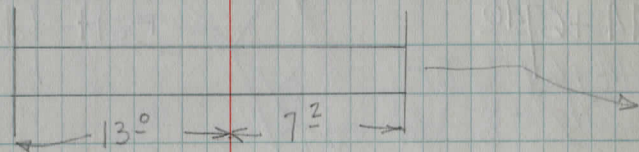
13+45

9+01⁴⁴ POT Spike set



Spk SE side
CEI #572834 (15)

2'x3' Stone Box OK



Spike E side 12" Maple

Spike SE side 15"
Soft Map.

58.58

45.12

Bolt fd

44+67.40

44+69.00 IP
July '48

51.21

Spike SE side
13" Maple

2x1 Stone Colot OK

28.22

22.0

17.5

43'

Same

180-49
361-37+

13.2

stone

7.5

2x2

(16)

THOMPSON

CENTER

ROAD

Same

+89-24

+90-03

Spk
NE
side 12"
Map.

55.94

43.35

Spk SE side
20" S. Map.

Revised E
Spk SE
side 12"
Map

54.19

3.05

Thompson Ctr
Rd.

Sta 44+69.0
July 1948

T.P.	11.17	1083.93	1.01	1072.76
7		68.8		1070.7
+24				1068.9
		12-9-43		
		Pom		
		Randley		
		Rodcliffe		
6		66.3		1068.1
5		68.6		1068.1
T.P.	5.24	1073.77	12.53	1068.53
4		71.8		1070.0
3		79.3		1075.8
2		77.4		1076.4
1				1074.8
B.M.	7.44	1081.06		1073.62

SECTIONS SIDLEY ROAD ⁽¹⁷⁾

5.0	4.4	3.9	4.2	3.5	3.1	3.5	4.7	4.7	5.0
-5	5	10	13	18	23	29	34	42	55
10.2	3.8			4.9			3.6	10.3	
FL	Hdwl			E			Hdwl	FL	
				17			5.5		
7.5	8.4	6.9	6.2	5.7	6.3	7.3	8.3	7.7	9.5
-5	7	10	14	22	29	32	41	47	50
6									ch
5.2	5.6	6.9	6.0	5.7	6.1	7.0	10.4	8.7	
-5	7	11	17	22	30	35	39	55	
							ch		
9.3	10.1	12.2	11.5	11.1	11.5	12.2	10.9	10.4	
-5	8	12	17	23	29	34	38	55	
1.8	3.4	5.9	5.5	5.3	5.9	4.7	3.8		
-5	8	12	16	22	30	35	55		
3.7	4.0	5.7	4.9	4.7	5.9	5.3	6.5		
-5	6	12	18	23	33	35	55		
3.7	3.8	5.8	7.8	6.3	7.6	7.0	7.3		
30	22	18.5	12		8.5	14	30		

B.M. 4.73 1069.00

14 67.6 1068.8

+45 1069.1

13 69.3 1069.3

12 70.3 1070.4

T.P. 2.64 1073.73 12.84 1071.09

11 75.8 1072.9

10 80.1 1077.6

9 80.3 1080.2

8 80.9 1076.3

1083.93

E Foot 22" E/A 14705 Lt 35'

6.1 5.5 4.9 5.6 5.6
-5 7 21 30 55
12

8.7 3.7 4.6 4.2 8.6 8.6 10.1
FL HdW 12 HdW/FL 100 200
7

4.4 4.5 5.8 4.9 4.4 5.0 6.1 6.5 6.9
-5 5 9 15 22 29 33 40 55

3.4 2.7 4.3 3.6 3.3 3.8 4.3 5.0 5.5
-5 7 12 18 22 28 32 38 55

8.1 9.6 11.8 11.2 11.0 12.0 10.7
-5 6 12 18 23 32 39
55

3.8 4.5 4.4 6.0 7.2 6.5 6.3 7.2 5.9
-5 4 8 11 14. 19 23 31 35
55

3.6 3.8 4.4 3.7 4.2 4.9 5.1
-5 8 11 23 28 33 55
38

3.0 4.9 8.3 7.9 7.6 7.9 6.4 4.9
-5 11 16 21 28 35 38 42
55

23 72.2 1072.3

22 74.1 1073.8

21 75.2 1075.1

T.P. 2.24 1077.08 5.37 1074.84

20 74.8 1074.8

19 74.9 1074.8

18 75.3 1075.4

17 75.4 1075.2

16 76.0 1075.8

T.P. 6.98 1080.21 0.50 1073.23

15 73.7 1071.3

1073.73

4.9 5.9 5.0 4.8 5.1 5.7 5.1

-5 6 8 13 20 25 28 32 55

3.0 3.5 4.5 3.3 4.1 3.2

-5 5 8 20 28 36 55

1.9 2.1 3.4 2.4 2.0 2.4 3.0 2.3

-5 6 9 15 19 24 28 34 55

5.4 5.5 6.2 5.6 5.4 6.2 6.3

-5 6 10 15 22 29 38 50

5.3 6.2 5.4 5.0 5.4 6.0 5.6

-5 8 14 20 25 30 39 55

4.9 4.8 6.1 4.8 5.2 5.8 5.3 5.4

-5 5 8 20 25 29 31 55

4.8 4.8 6.1 5.3 5.0 5.3 5.7 5.2

-5 6 10 16 21 26 31 36 55

4.2 4.6 7.2 4.8 4.4 4.7 5.5 4.3

-5 6 9 12 20 27 32 37 55

0.0 1.0 2.2 3.7 2.8 2.4 3.2 1.4 +0.2 +0.5 +1.0

-5 0 6 10 15 20 29 31 34 40 55

T.P.	3.15	1063.94	10.29	1060.79
31		62.4		1061.5
30		64.0		1062.9
29		65.6		1064.4
28		67.3		1066.0
27		68.3		1067.1
26	0.86	1071.08	6.86	1070.22
		69.4		1068.5
T.P.				
25		70.6		1069.4
24		71.5		1071.3
		1077.08		

8.7	8.5	10.5	9.8	9.6	9.8	10.4	9.1
-5	8	12	17	23	27	31	33
		13					55
7.1	7.0	8.4	9.4	8.6	8.2	8.7	9.1
-5	7	9	12	17	23	28	32
			13				34
							40
							55
5.5	5.9	8.0	7.0	6.7	7.1	7.7	6.4
-5	6	11.5	18	23	28	32	33.5
		12.5					55
3.8	4.2	6.7	5.4	5.1	6.1	5.1	5.3
-5	5	9	17	23	31	33	55
2.8	3.5	5.3	4.2	4.0	5.1	4.0	4.8
-5	7	11	17	22	31	38	55
stake 26+0							
7.7	8.8	10.1	9.0	8.6	8.8	9.1	9.8
-5	5	9	15	21	24	32	46
							55
6.5	7.2	8.8	7.8	7.7	8.7	8.4	9.2
-5	4	8	15	23	29	35	55
5.6	6.9	6.1	5.8		6.7	6.5	
-5	6	13	20		28	36	
							55

40

49.8

1049.0

39

51.3

1050.4

38

53.2

1052.6

T.P.

1.51

1054.96

10.49

1053.45

37

54.5

1053.8

36

56.1

1055.6

35

57.9

1057.2

34

59.0

1058.3

B.M.

1.90

1062.04

33

60.2

1059.4

32

61.4

1060.5

1063.94

5.2 5.2 7.5 6.8 6.3 (6.0) 6.4 7.0 7.1 5.3 4.5 5.1 4.5

-5 8 11 14 18 23 28 30 33 35 39 43 55

3.7 4.0 4.9 5.9 5.1 (4.6) 5.0 5.6 3.9 3.2

-5 8 10 12 15 (22) 27 31 34 38 55

1.8 2.6 2.9 4.2 2.9 (2.4) 2.7 3.4 1.3

-5 6 10 12 15 (21) 27 31 34 55

9.4 9.1 10.3 11.4 10.4 (10.1) 10.5 11.0 8.4

-5 6 10 12 15 (22) 27 31 34 55

7.8 7.4 8.7 10.0 8.7 (8.3) 8.6 9.4 7.3 7.5

-5 6 9 12 17 (22) 27 31 33 55

6.0 5.7 6.9 8.4 7.2 (6.7) 7.0 7.4 5.5 5.8 5.9

-5 7 9 11 17 (22) 27 31 33 37 55

4.9 4.4 6.1 6.8 5.9 (5.6) 5.9 6.4 4.9 5.0

-5 7 10 12 18 (23) 27 31 33 55

Spike E root 40" Soft Maple 334 50 Rt 29'

3.7 3.5 4.4 5.6 4.8 (4.5) 4.8 5.2 3.9 4.0

-5 6 9 13 17 (23) 28 32 34 55

2.5 4.4 3.7 (3.4) 3.8 4.1 2.7 3.0

-5 8 11 17 (24) 29 32 34 55

		7.50	1035.64
T.P	3.54	1043.14	9.50 1039.60
BM		4.99	1044.11
	out FL E	8.4	1040.7
	in/ FL E	8.4	1040.7
	out FL W	8.2	1040.9
	in/ FL W	7.8	1041.3
	100W	6.7	1042.4
	100E	4.8	1044.3
+67.40		5.0	1044.1

44 13.7 1043.9

43 45.0 1044.8

3.29 1049.10 9.15 1045.81

42 46.6 1046.2

T.P.

41 47.9 1047.6

1054.96

Spike SE root 15' Maple ± 45' NW of inter-section

5.4	7.0	6.1	5.5	5.2	5.6	6.6	5.0	5.6	5.3
-5	10	15	20	27	33	38	41	47	55
5	14								

4.1	4.6	6.0	5.3	4.6	4.3	4.7	5.5	4.8	4.2
-5	8	11	14	19	26	31	36	38	42
									55

8.4	8.8	9.5	10.4	9.6	9.0	8.8	9.5	10.1	8.2	8.5	8.1
-5	8	11	13	15	20	25	31	35	39	45	55
			14			27		36			

7.1	7.4	8.3	9.0	8.6	7.5	7.4	8.0	8.8	6.6	6.8	6.1
-5	7	10	12	13	18	23	29	34	37	44	55
					19			35			

23' 738
 +35 23' +
 433 23' x x x
 ≠ 30 7+12
 6+80 26.5' ≠
 +34
 +20 27.5' +
 +16 21.5' x x
 5+0
 x 786 8' Ch.
 +57 8" Ap
 4+30 24.5' 8" Ap
 x +26 28.5' ≠
 + 19.5' +19
 +15
 ← 22' 3+0
 +87 ± 40
 x +80 8' M.B.
 2+45 — grad. down
 x + 20' +70
 1+49 28' ≠
 x x 18.5' 0+33
 15.5' 15.5'
 0+26
 + 3' x 6" Stone (plugged)

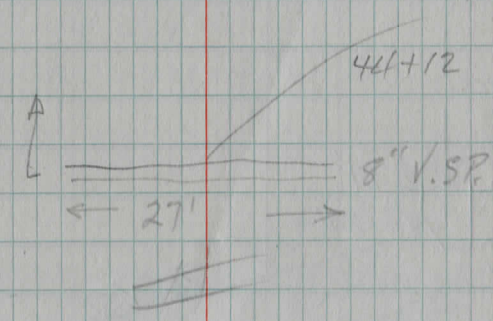
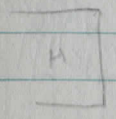
TOPO SIDLEY ROAD

27
 grad. up 18' 15+90 (23)
 15+58 25.5' ≠
 x 22' Elm 28' 14+98
 x
 x
 +92 12' x x
 13+82 25.5' x ≠
 x x 36' 13+01
 18" W. Ch. 30' 12+39
 12+05 ≠
 End Map 36' 11+95
 11+25 14' x x
 ← 32' 11+0
 0
 0
 Beg. ROW map 12'-15" 10+27 ≠
 20 31'
 156 26.5' ≠
 150
 grad up 145
 8+35
 0
 0
 0
 0
 0 ± 100' 185
 0 39' 7+49
 9-15' Hom.

12-10-13
 Pom
 Randless
 Roadcliff

x P.L. End tree row 42+60 x
 wavy wire 40+80 17.5' +
 fence on trees 11' + Elec
 23' x 0 P.L.
 Beg tree row 28.5' 37+80
 6" to 12 36+40 11' +
 33+76 9.5' +
 33+52 ✓ 15' 336 Map
 13' to 25' rock pile
 33+25 to +55
 31+30 16' +
 28+60 +
 26+12 down 1152+56
 26+02 21' +

CEI & Tet to here
 24 27 22' ≠
 x P.L. ? 22+95
 ← 125' +53 22' ≠
 21+79 ±
 19+05 ±
 17+30 24' ≠
 +100' 16+41



+55 27' ≠
 8" Map 27 +45
 4" Map 27 44+25
 3" Map 27 44+07
 Bag ornamental hedge 20 43+14
 43+14 19' +
 14" Map 27' 43+12

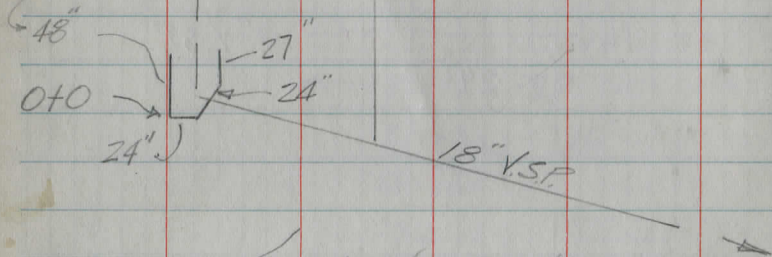
Hillside headwall

UP

ditch line on curve

DOWN

Inside faces



0-30 Double stones along edge of drive

Note: Alignment for - (minus) sta.
= hillside hdwl to $\pm 8'$ E big Map

0-77 Dry Boulder stone Ret. wall (W side Dr.)
large flat stonewalk

0-145
dry boulder ret wall
Conc. E wall horse passage

8+73

12" Enc. V.S.P. Outlet
needs opening
 $\pm 50' 5$

Shows evidence of
consid. H₂O surch.

12" dr. pipe $\pm 40'$ up has
surch.

CHARDON - MENTOR
RD
STORJA SEWER EAST
Hill at Maple Rock
School
6-44 Rom Meyer

175 End of regd tile = $\pm 25'$
E of creek

		HI		EI.
BM	13.11	113.11		100 ⁰⁰
Ass'd				
0+20		✓		
1+0				
T.P.	13.20	125.46	0.85	112.26
1±77		✓		
1±82	Side hill wash Loc. inlet			
2+0				
T.P.	12.15	136.53	1.08	124.98
3+0				
3+22		✓		
T.P.	12.82	148.28	1.07	135.46
4				
T.P.	12.31	159.92	0.67	147.61
5				

HE & Road side of X rd culut					
0+0					
H					S
11.96	12.90	13.27	12.61	11.95	
H ₂ O High	5	5.5-6.5	7	10	
0.85	109.11				0.25
stk	4.0				£
	bot. ditch				
	5.80	6.80	6.86	5.80	
	5.6	3	1.5	0	
1±75					
1.08	6.40			2.37	
sk	ditch			£	
2.34	5.3			3.10	
stk	ditch				
	2.8	4.0	4.16	4.0	2.81
	3.0	2.1	1.3	0.5	0
4.19	7.8			5.53	
stk	ditch			£	
	149.8				
6.85	10.1			9.17	
stk	ditch			£	

BM

H.I.

1022.94

159.92

5+80

T.P

13.20

172.32

0.80

159.12

6+0

7+0

7±50

8+0

8+73

BM

4.97

176.08

1.21

171.11

7.60

168.48

10.3

165.78

Bottom SE 4 board House 50' Lt ⁽²⁷⁾

2.95

3.83

2.95

6.1

2.2

0

rounded

11.45

±14.3

12.73

stk

ditch

£

stk

8.4

6.41

5.07

ditch

£

4.93

6.4

6.3

6.4

4.93

0

1.7

2.1

2.8

4

1.56

4.6

2.49

stk

ditch

£

Surch. level

FL inlet

S.W 4 S Hdwl

FL outlet

30' S

12" to ± 6+50
6+50 inlet

15" to 4+0
4+0 inlet

18" 4+0 to 0+0
inlet at 1+75

B.M. 0.29 100⁰⁰

3.15

8.7

+ 16.3

0+0

F.L. inlet

± top stone ret. wall HorW side Dr.
base " " "

8-1-44
 Pom
 Maynard
 Meyers

T.H.#60 BURROWS RD.

LEVELS MONT. - THOMP

B.M. 4.60 104.60 100⁰⁰

73+66 101.0

74+0 100.2

T.P. 4.24 102.97 5.87 98.73

75+0 97.87

T.P. 2.34 101.07 98.73

76+0 5.9 95.87

77+0 92.47 7.0
 30

78+0 12.2 88.87

29

TWP. LINE ROAD
 WEST OF 528

N.W. & S headwall Culvert Sta 73+
 H S

4.20 4.0 3.6 3.8 6.0 4.60
 Hdwl 6 7.5 16.8 Hdwl

9.5 8.4 7.4 5.0 4.4 3.4 4.4 4.9 6.6 7.1 5.2
 30 19 11 6.5 9 13 16 25 30
 25

12.8 11.3 11.1 6.2 5.5 5.1 4.7 4.7 5.1 4.3 1.8 0.9
 30 22 17.5 5.5 3 6 15.6 18 21 25 30

14.5 14.3 13.3 6.8 5.9 5.2 5.0 5.1 6.1 5.1 2.7 2.1
 30 22 17.5 6.5 4 6 14 17 20.5 24 30

6.3 6.3 8.1 9.7 8.7 8.6 8.3 8.4 9.1 5.7 5.4
 24.5 16 12 7 4 4.5 12 15 21 30

0.0 } 9' 78+0
 0.0 } 9' 77+66
 2.5 } 14' 77+40

78+60: end
 of revirie

0.0 } 10' 76+70

			162.45
T.P.	4.35	166.75	162.40
64+0			162.25
BM.		3.34	163.4
63+0		5.7	161.05
62+0		4.7	162.05

H

4.3
P.I.
£

S

32

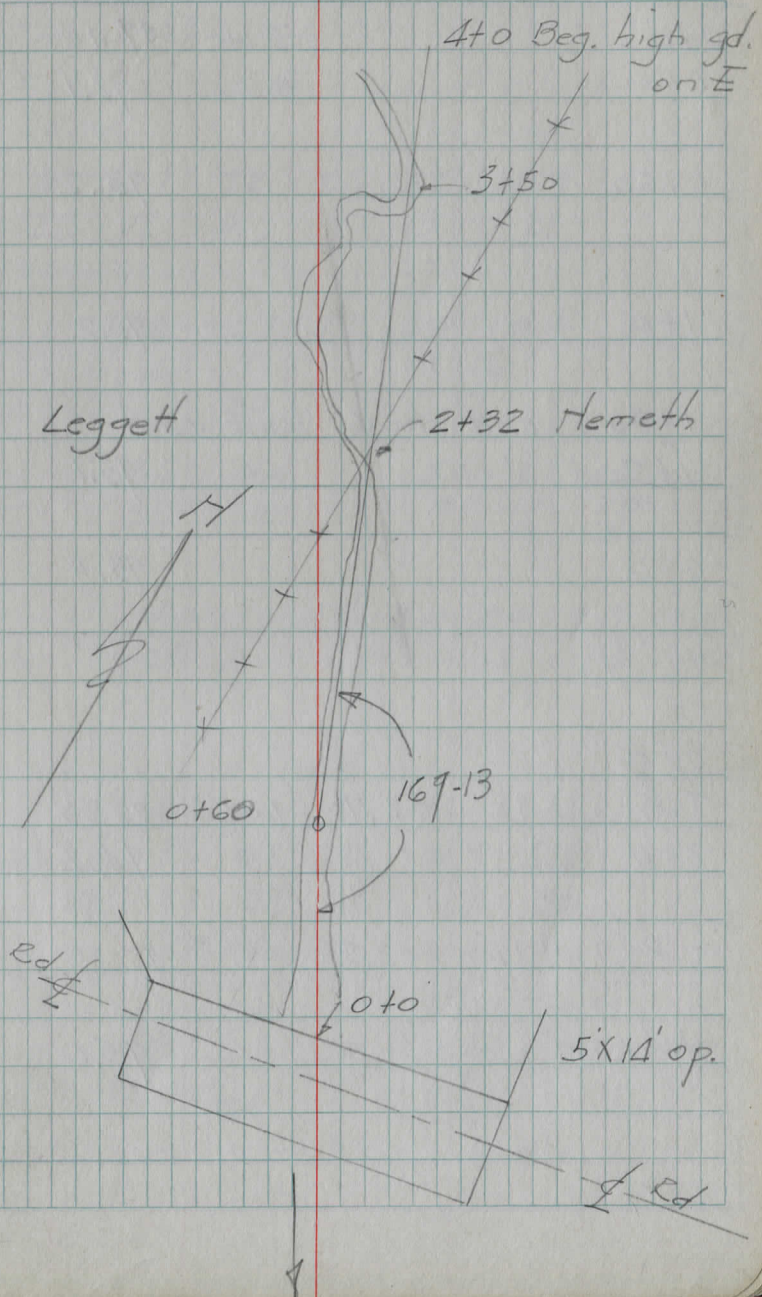
6.3	5.5	6.2	4.9	4.5	4.5	5.2	2.8	2.6
30	15.5	11	8.5	£	5.5	9	11.5	30
		12		£				

Spk NE root 28" Map. S side 63±70
(2nd W of drive)

33
DRAINAGE ON LEGGETT
ROAD AT BRIDGE
NEAR LEGGETT-HEMETH
PROP. LINE

8-23-44
Tom. Hall. Maynard

C.H.#26



Levels of Bridge

B.M.	0.28	100.28	100.00
0+0		3.14	97.14
0+0		8.2	92.1
0+60			93.2
1+0			93.2
1+30	end high bank east		
1+50			93.1
2+0			93.4
3+0			
T.P.	3.95	102.78	1.45 · 98.83
3+0			94.2
T.P.	4.72	103.55	98.83
4+0			95.0

H.W. bridge seat

Top opening

F.L. = Lowest point chan.

W

E

60	21	72	7.1	5.6	10.9
22	12	6		13	21

10	6.1	7.1	6.4	10.4
40	7		10	16
		30		

3.5	4.0	5.0	7.2	4.5
25	10	9	10	25
			18	50

4.0	4.4	5.2	6.9	2.9	3.5
25		10	12	24	35
			18		

2.6

level 5.5	8.6	6.3	5.1	4.9	5.5
46	34	27		17	30
	Creek 5' wide				

8.5	5.2	4.6	up steep
12		25	

	W Hog	E	E
3+70		0 6" Elm	
3+50	brush	5' 2-12" will	
3+25	6' 6"	dead 12" will	
3+0		17' fence	
2+60	4" Elm 31'		
2+50		6' 18" Elm	
2+45		10' 14" Elm	
2+42		7' 6" "	
2+30		12' 8" "	
2+12	8" Map. 1'	2+40 to 0+0	
2+0	2'-12" Elms 1'	brush	
1+76	8" Map 6'		
1+76	8" Map 10'		
1+68	10" W Ch 8'		
1+60	6" Map. 7'		
1+25	15" Elm 12'		

1+25 to 0+0 small amount of
brushing & small amount of
straightening & deepening
channel

Evidence of some H₂O overflowing
to E at 3+50

W	E
Topo Hog Bridge	

BM. 473 104.73 100⁰⁰

0+0 = S side bridge

1+0 11.3 93.4

1+25 11.0 93.7

BM 2.82 102.82 100⁰⁰

2+0 9.15 93.67

3+30 9.6 93.2

Levels along H road ditch

1+0 5.7 97.1

2+0 6.8 96.0

3+0 7.1 95.7

T.P. 5.76 102.20 6.38 96.44

3+90 6.3 95.9

4+0 6.7 95.5

5+0 7.1 95.1

6+0 7.8 94.4

7+0 8.3 N. side bridge

7+15 10.9 in creek at "

BM 2.80

LEVELS S of Bridge 36

H.W. bridge seat

Ent. of creek from S.W

Solid rock

" "

Bridge = 0+0 H I = 102.82

3+0 where H₂O goes over rd.

= W side Nemeth drive

93.9 road ditch east of
91.3 Nemeth drive needs
brushing bridge 7.3 x 20
NE cor of NE wing

B.M. 3.73

F.L. - 0.10

100[±]

0+50

1+0

+50

2+0

+50

3+0

LEVELS for CULVT outlet on
PRINCETON ROAD ± 2200' S of
CHARDON - WINDSOR RD.

Ground Grade Cuts
Exist ditch Rod

Top bell Wend culvt = 0+0
5.4 5.4

5.1

6.05

6.05

2.80

C 3.25'

5.9

6.70

6.70

4.20

C 2.50'

6.7

7.35

7.35

5.35

C 2.0'

8.0

8.00

8.00

7.00

C 1.0'

8.7

9.2

10-27-44

Perrin & Co.

8" Corr OK

pasture
drive
Level

14	15'	+90
----	-----	-----

22" M	23'	+69	28	≠
24" M	22'	62+44	12'	10
		62+0		up 1-12
		+59	± 110'	H
	19'	+48		

124 15.5' 8" Elev

+12 28.5' ≠

15" M 23' 61+04

15" M 23' 60+06

2 barb Elec

21" M	24'	+43	18'	×
	14'	+42		×
	59	+31	26'	≠

SIDLEY

ROAD

24" M	23'	+62	30	16" M
		58-50		

+86 29' ≠ ³⁹

+ 18' +56

8" Corr OK

drive not used 16'
Level 15' 43

16" Heml 26' 69+33

16" Heml 26' +98

18" Heml 26' +61

H		+14	28'	≠
		+100'	68+0	

≠ 16' +80

15" Heml 27' +68

Cinder up 1'-50' +43

14" Heml 27' 67+19

+39 28' ≠

20" M	22'	66+12	18'	+28
-------	-----	-------	-----	-----

22' 65+26

22' +93

+ 18' +68

64+62 28.5' ≠

22" M 22' +93

22" M 22' +61

+36.5 17' ≠

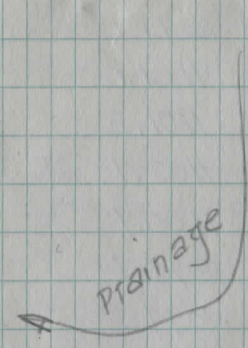
+ 18' 63+05

15" M	⊙	26'	+ 87	
			+ 68	21 26" M
			+ 58	25.5' ≠
			+ 50	×
			+ 47	21 15" M
			78+30	20 ⊙ 12" M
			78+12	22 ⊙ 12" M
	⊙	+ 20'	78+05	×
	⊙		77+99	29.5' × × ×
14" M	⊙	24'	77+19	
	⊙		76+78	27' ≠
	⊙	+ 20'	76+37	
14" M	⊙	24'	75+45	
	⊙		75+11	28' ≠
15" M	⊙	23'	73+77	
	⊙		73+40	28' ≠
	⊙	+ 16'	72+99	
12" M	⊙	23'	72+12	
	⊙		71+60	29' ≠
Every 5	reels			
	spotted			
15" M	⊙	23'	+ 80	
20" M		22'	70+14	

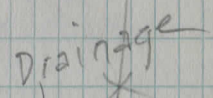
			+ 34	27	± ⁴⁰
			+ 25	26	⊙ P.L.
14" M		25	87+20		
		+ 17'	86+60		
			85+59	28'	±
15" M		27'	85+44		
		+ 16	84+93		
			83+84	27'	±
16" M		27	82+65		
		+ 16	83+10		
			82+07	27'	±
14" M		26'	+ 94		
		+ 16'	81+44		
				8" Corr Lower	
			+ 74	13'	116' Hot too good
					4pi-30' gravel
			+ 57	22'	⊙ 12" M
			+ 33	26'	±
14" M	⊙	26'	80+27		
			+ 96	21	⊙ 14" M
			+ 74	17	+ ch. wire
		+ 20'	+ 74		
			79-07	+ 80'	

24" M 25' +72 ~~15" M~~
 +71
 +61 24' ~~20" M~~
 + 16' 93+07 X
 +82 26' 15" M
 +51 26 15" M
 +40 27 K F
 + 21 25 ~~15" M~~
 20" M 24' 92+13
 +62 25' 4" trench
 +48 25' 4" " "
 + 18' 91+47
 + 98 25' 4" trench
 +87 28' +
 15" M 24' +64 L H
 90+47 + 70'
 90+47 26' 30" M.
 12" corr Fall (Lower) grave
 90+11 13' ~~10'~~ up 1-30
 + 16 89+85
 89 +12 27.5 #
 12" M 25' 88+12
 + 18' 88+28

QED



96+56 26' v
 +92 24' X #
 +80 21' 23/4" M
 +65 23' 20 12" M
 24" M 25 +50
 +43 25 14" M
 Every 5 trees to here
 P.C.
 +27 25 24" M
 95+04 25' 20 24" M
 + 18' +71
 +57 22' 12" M
 +46 22' 23 12" M
 94+08 28' #

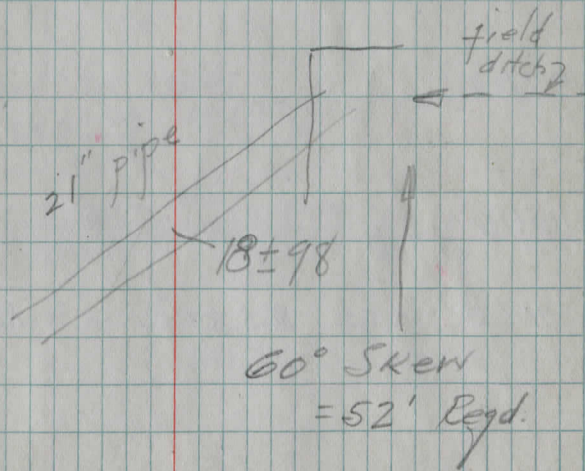


2.99	1105.87	1102.88
	6.9	1099.0
	4.9	1101.0
	4.6	1101.3
	3.8	1102.1
	5.0	1100.9
	7.2	1098.7
	6.6	1099.3
	9.4	1096.5
	10.3	1095.6
	10.6	1095.3
	10.5	1095.4
		1102.4
		1099.5

THOMPSON CTR RD
SEC G

Prop. culvert 18+98

N.W. & H. rd w/ Culvert 17±70
 Bot. Sditch 19+12 (Field ditch from S)
 Bot. field ditch 20' S E
 " " " 30' " "
 Nat. ground " " " 19+12
 ± 78+98
 H rd ditch 18±85
 ± H rd marg 18±75 #1
 30' NW of last
 Bot. outlet ditch (culvert 17±70) = ±75' NW
 ±140' NW of #1
 ±170' N.W. of #1 (nat ground, outlet
 ditch culvert 16±60) bot. ditch ±
 Sta 17+0 Sditch .5 down
 " 18+0 " "



4-4-47 3 PM
 Maynard
 Bendles
 for
 Wet
 12-50

X SECTIONS

	+	H.I	-	E	
			0.18	862.91	862.91
11+75					
11+60					
BM	2.94	863.09	3.24	860.15	Quit 4-2-47
11+40					
11+0					
10+50					
10+0					
BM D	0.68	863.59		862.91	

CHAG. RIVER RELOC. 43

W	Lt	E	Rt	East
52.6				
10.5				Start of IRAPIS ALSO N END DEEP HOLE
		58.8		
	$\frac{10.5}{10}$	$\frac{12.1}{8}$	$\frac{6.0}{5}$	$\frac{4.3}{3}$ $\frac{5.4}{21.5}$ $\frac{4.2}{50}$
				RIVER
		55.6		
	$\frac{12.79.2}{19}$	$\frac{9.5}{17}$	$\frac{10.2}{12}$	$\frac{9.5}{9}$ $\frac{7.5}{6}$ $\frac{4.4}{8}$ $\frac{4.9}{21}$ $\frac{4.3}{50}$
				CHAG RIVER
				SPRINK
				857.0
	$\frac{13+5}{32}$	$\frac{12+2}{26}$	$\frac{6+3}{28}$	$\frac{6+5}{10}$ $\frac{6+6}{67.6}$ $\frac{8+3}{9}$ $\frac{10+3}{13}$ $\frac{10+3}{17}$ $\frac{7+8}{19}$ $\frac{5+3}{27}$ $\frac{4+9}{45}$
				RIVER
				SC SC
				857.7
	$\frac{6+0}{50}$	$\frac{6+7}{33}$	$\frac{8+8}{25}$	$\frac{8+4}{20}$ $\frac{6+1}{5.5}$ $\frac{5+9}{5+9}$ $\frac{5+6}{4}$ $\frac{6+9}{15}$ $\frac{6+7}{20.5}$ $\frac{4+7}{30}$ $\frac{9+0}{50}$
				SPRING CHAG
				Reversed ? i.m. 855.67
	$\frac{6+3}{50}$	$\frac{6+3}{22}$	$\frac{3+7}{6}$	$\frac{4+3}{2.5}$ $\frac{8+0}{3}$ $\frac{9+2}{2}$ $\frac{7+0}{16}$ $\frac{5+7}{28.5}$ $\frac{5+0}{53}$
				858.6
	$\frac{6+6}{55}$	$\frac{6+6}{44}$	$\frac{3+0}{35}$	$\frac{1+5}{25}$ $\frac{1+7}{15}$ $\frac{5+0}{5+0.2}$ $\frac{6+44}{13.5}$ $\frac{5+9}{21}$ $\frac{5+4}{30}$ $\frac{4+2}{38}$ $\frac{5+7}{50}$
				Spk SW root 30" Syc.

E

+ H1 - E

5+30
 5+50
 BM 5.50 868.88 863.38

6+10

6+20

6+50

BM 3.76 867.16 4.08 863.40 (863.38)

7+0

8+0

8+60

9+0

9+50

BM "D" 4.57 867.48 862.91

L+ W 59.1 R+ E 44

$\frac{9.0}{50}$ $\frac{9.0}{50}$ 9.8 $\frac{9.9}{11}$ $\frac{9.5}{19.5}$ $\frac{4.6}{35}$ $\frac{9.5}{50}$

59.0

$\frac{8.4}{50}$ 9.9 $\frac{9.7}{18}$ $\frac{7.2}{29}$ $\frac{5.6}{50}$

60.0

$\frac{5.9}{50}$ $\frac{5.9}{32}$ $\frac{7.3}{17.5}$ 7.2 $\frac{6.8}{18}$ $\frac{7.5}{50}$

62.1

$\frac{4.9}{50}$ $\frac{5.6}{27}$ 5.1 $\frac{5.0}{19.5}$ $\frac{6.7}{35}$ $\frac{7.4}{50}$

62.0

$\frac{4.1}{50}$ 5.2 $\frac{4.6}{28.5}$ $\frac{5.5}{50}$

L.P. (C)

61.8

$\frac{4.9}{50}$ $\frac{4.9}{26}$ $\frac{5.8}{15}$ 5.7 $\frac{6.4}{27}$ $\frac{6.2}{50}$

60.4

$\frac{6.2}{50}$ 7.1 $\frac{7.1}{40}$ $\frac{6.3}{50}$

61.3

$\frac{4.7}{50}$ $\frac{4.8}{22.5}$ 6.2 $\frac{7.9}{15}$ $\frac{6.9}{29}$ $\frac{7.6}{35}$ $\frac{6.6}{44.5}$ $\frac{7.4}{50}$
 8ACT

59.6

$\frac{5.8}{50}$ $\frac{5.2}{27}$ $\frac{9.0}{14}$ 7.9 $\frac{7.9}{50}$ 30 CH

58.4

$\frac{6.5}{50}$ $\frac{5.9}{34}$ $\frac{9.1}{28}$ $\frac{9.7}{16}$ $\frac{9.1}{7}$ $\frac{9.5}{11}$ $\frac{8.4}{21.5}$ $\frac{9.2}{33}$ $\frac{8.9}{50}$

+ H I - E

1+50
 2+0
 T.P. 10.99 874.01 863.02
 B.M. 4.00 864.88 (864.83)
 T.P. 5.86 863.02

2+00

2+50

3+00

3+50

4+00

4+50

5+00

5+20

865.88

L + W R + E 45

862.7

$\frac{3.3}{51}$ $\frac{3.1}{29.5}$ $\frac{4.7}{23}$ $\frac{12.3}{8}$ $\frac{12.3}{9}$ 11.3 $\frac{6.9}{12}$ $\frac{0.9}{2.9}$ $\frac{-1.5}{50}$ DAMP
 unstrip

70.2

$\frac{3.8}{12}$ $\frac{2.6}{26}$ $\frac{1.6}{39}$ $\frac{0.3}{50}$
 unstrip →

50' offset stk 2+0

63.3

$\frac{6.6}{50}$ $\frac{7.9}{22}$ $\frac{7.8}{14}$ 5.6

61.8

$\frac{6.1}{50}$ $\frac{7.3}{15}$ 7.1 $\frac{6.6}{10}$ $\frac{6.9}{15}$ $\frac{7.3}{43}$ $\frac{3.7}{50}$

62.0

$\frac{5.4}{50}$ $\frac{6.0}{44}$ $\frac{5.7}{29}$ $\frac{8.0}{23.5}$ 6.9 $\frac{6.5}{11}$ $\frac{8.0}{50}$

61.0

$\frac{5.0}{50}$ $\frac{5.2}{37}$ $\frac{4.1}{27}$ $\frac{8.6}{12}$ 7.9 $\frac{7.4}{11}$ $\frac{8.6}{25}$ $\frac{8.4}{26}$

59.6

$\frac{5.4}{50}$ $\frac{6.0}{34}$ $\frac{5.1}{20.5}$ $\frac{8.8}{10.5}$ 9.3 $\frac{8.3}{12.5}$ $\frac{7.8}{38}$ $\frac{2.8}{50}$

59.6

$\frac{6.4}{50}$ $\frac{7.0}{36}$ $\frac{5.9}{19.5}$ $\frac{8.8}{10}$ 9.3 $\frac{7.3}{6}$ $\frac{7.9}{10.5}$ $\frac{7.4}{86.5}$ $\frac{1.3}{47}$

59.7

$\frac{7.1}{50}$ $\frac{6.6}{30.5}$ $\frac{5.5}{20}$ $\frac{8.7}{11.5}$ 9.2 $\frac{8.9}{6}$ $\frac{6.3}{13}$ $\frac{4.3}{26}$ $\frac{2.2}{50}$

60.2

$\frac{6.7}{50}$ $\frac{6.7}{25.5}$ $\frac{8.5}{6}$ 8.7 $\frac{8.0}{8}$ $\frac{5.0}{17}$ $\frac{4.5}{50}$

7.3

9.3

Angle Stadia Rod

	107	13.1	5' W RIVER
	141	10.1	
88°-00'	155	6.6	
178°-00'	104	15.8	MID-RIVER
	99	13.	3' W RIVER
163°-50'	158	6.3	H. Point W. RIVER BRANCH
↑	190	6.9	
↑	122	5.5	
↑	108	10	
↑	89	10	
↑	69	11.9	
134°-47'	62'	14.8	

ang =
new
cottage

872.93

Set at 1 to angle from NE

0+30

BM. 4.60 872.93 5.68 868.33 868.32

1+0

874.01

59.8
62.8
66.3
57.1
59.9
66.6
66.0
67.1
62.9
62.9
61.5
58.1

856.0	61.1	66.3	66.3
16.9	5.8	6.4	6.6
EDGE	15	27	50
ALSO			

56.0	58.3	70.4	67.8	67.5	66.4	66.1	73.7	74.3	75.3
18	15.7	3.6	6.2	6.5	7.6	7.6	0.3	-0.3	-1.3
4/5	35	15	6	5	10.5	16	31	34	50
IN	EDGE								
ALSO	ALSO								
							53' up stream		

Trees over 6' @ ± 4 up.

6-16-47 Sta 8+0 to end = 36
stamps counted by J. M. & J. C. P.

6-23-47 Sta 0+0 to 8+0
118+0 stamps

154

CHAG. RIVER

47

Slopes CHAG. River

	+	H1	-	E	Grade
					62.04
+50					852.9
B.M.	2.90	862.04	5.55	859.14	9.14
					64.69
10+0					853.1
					11.59
+50					853.3
9+0					853.5
8+0					853.9
7+0					854.3
B.M.	1.31	864.69		863.38	

7-14-47
C. Pomeroy
R. Colebrook

Lt (West) Ground Lt (East) 28
Stake (out) £ stake (12' out)
9.14
2.64 ✓
6.50

Spk Willow Stump 20' E £ 10+40
11.59 ✓
6.59 ✓
C 5'-0"

All stks set 12' Rt of
£. Graded to top
of stk

64.69
53.30
11.39
4.89
6'-6" ✓

11.30
10.65: exc.
.74 ditch

6.469
53.5
11.19
3.69
C 7'-6" ✓

64.69
53.90
10.79
3.29
C 7'-6" ✓

864.69
54.3
10.39
2.39
C 8'-0" ✓

I. P. & Grilly & McGraw

+ H.Z. - E Gr.

5+0 67.17
855.1
12.07

5+50 67.17
854.9
12.27

6+0 67.17
854.7
12.47

6+50 67.17
854.5
12.67

BM 7-18-47 3.79 867.17 ✓ 863.38 ✓

BM 862.09 1.88 860.16

+60 862.09
852.46
9.58

11+0 862.09 ✓
852.70
9.34

12.07
8.57
7.50 - 7'-6" ✓

stks
12' pt of E
Colebk.
P.M.

12.47 ✓
6.97
5'-6" ✓

12.28
6.78
5'-6" ✓

12.67
6.67
6'-0" ✓

I.P. McGraw-Grilley

Horiz. Spk SW side 30" Elm 60' pt
of E Sta. 11 ± 0

9.58 9.58
2.08 9.08
7.50 .50
12' stk Spring creek
at ent. to river

9.34 9.34
7.84 4.84
1.50 4.50 stk
stk 12'
± E

+ H,1 -

229

BM	86217	2.29	86488
			67.17
3+0			855.7
			<u>11.47</u>
↓40			67.17
			855.5
			<u>11.67</u>

867.17

Walnut

	67.17
←	<u>855.9</u>
	11.27

To be corrected!!

	11.47
	<u>2.97</u>
	8.50

✓

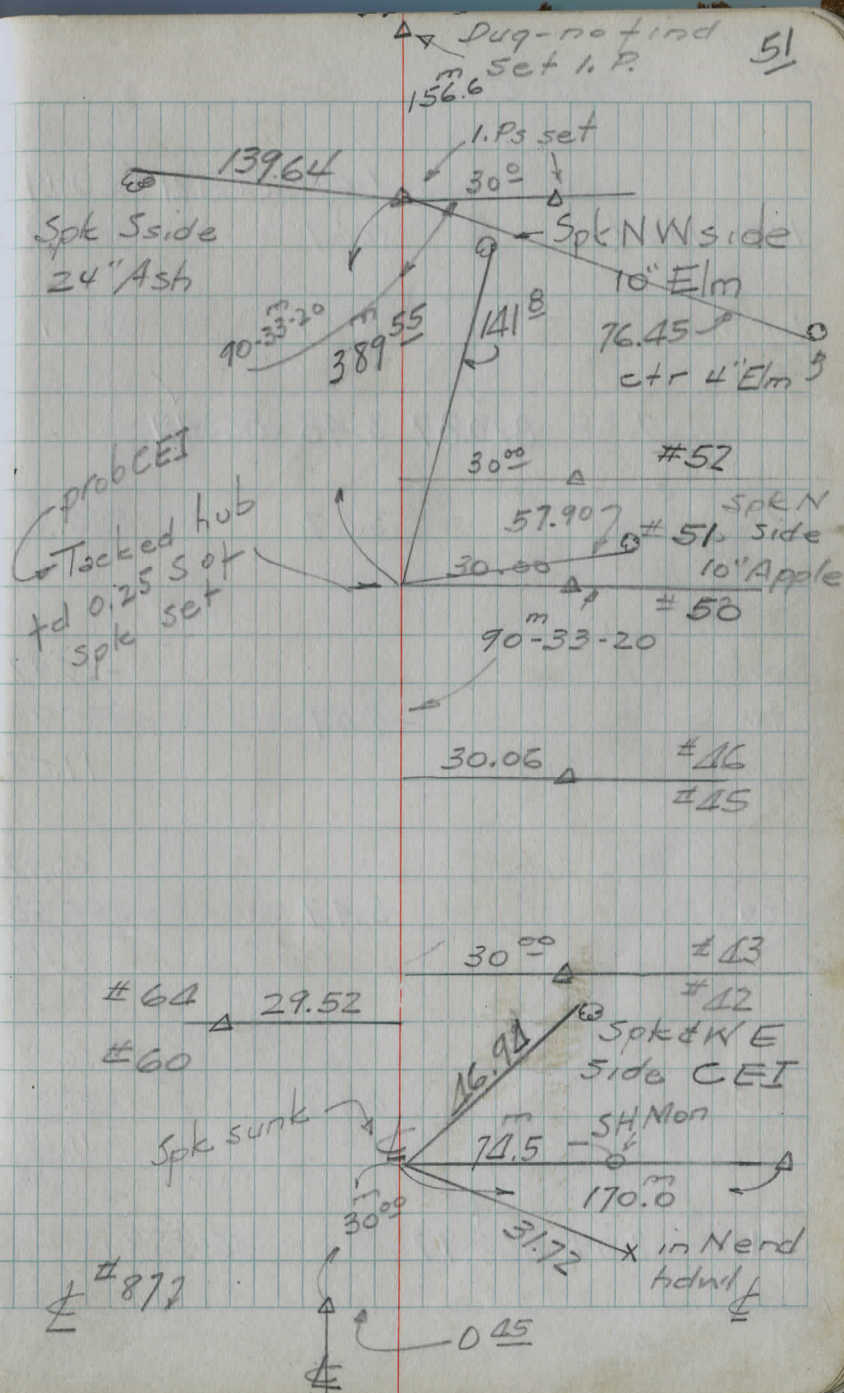
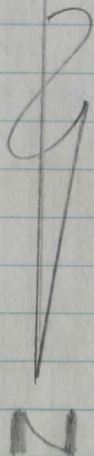
	11.67
	<u>5.17</u>
	6.50

✓

Fullertown Rd. Ext.

7-29-47

Penn-Colebrook



7-29-47

CHAG River Reloc.

	1.66	869.21	869.21
1+0 10' Lf	0.67		856.7
1+0	0.67		856.7
7.38	870.87	3.48	863.49
2+0	3.67		856.3
			66.97
3+0	4.07		855.9
			11.07
			66.97
4+0	5.47		855.50
			11.47
			66.97
4+50	6.17		855.3
			11.67
BM	2.09	866.97	864.88

stks 12 W of

52

SPIKE S.W. SIDE CLUMP G' ELMS

	870.87
	856.70
	14.17
	0.67
	13.50
	866.97
	856.30
	10.67
	3.67
	7.00
	866.97
	855.90
	11.07
	4.07
	7.00
	866.97
	855.50
	11.47
	3.67
	6.00
	866.97
	855.30
	11.67
	6.17
	5.50

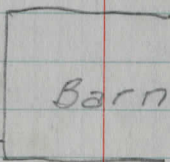
E trench = ± 0.6 low

E trench = ± 0.2 low

9+0 I.P. set POT

1+10

28'



1+0

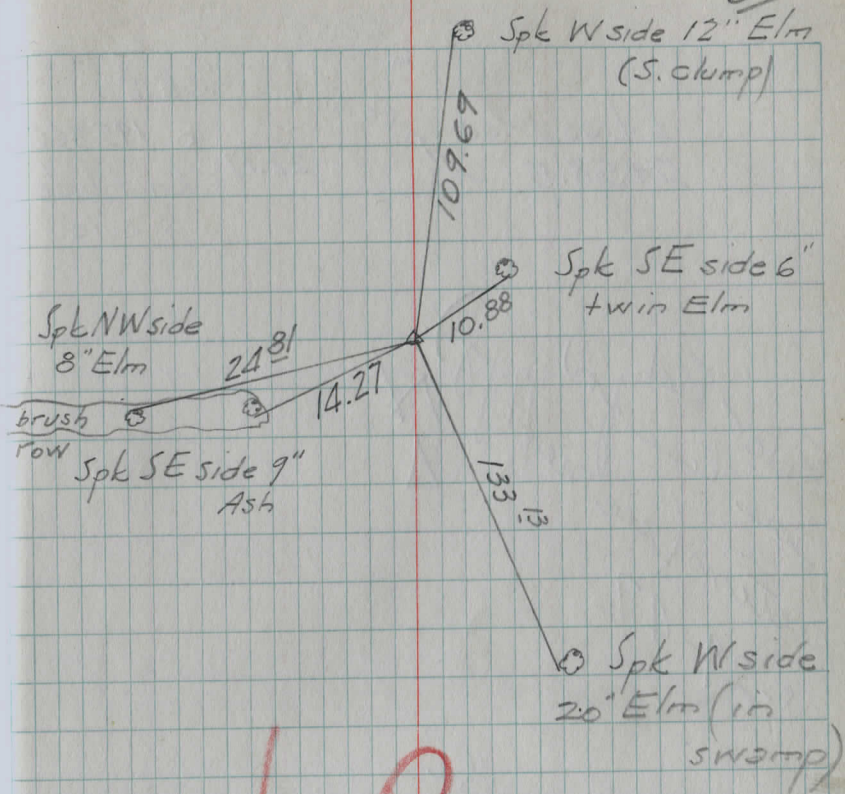
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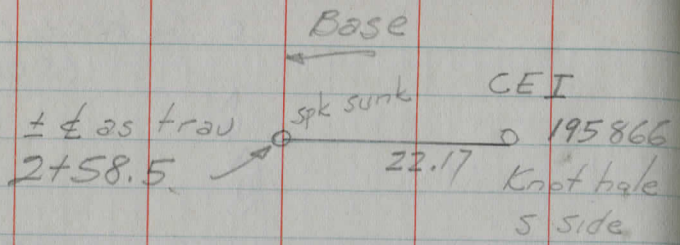
0+50



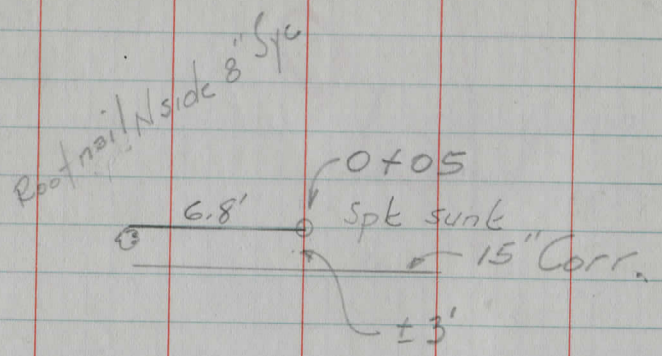
30



VOID



River Rd
 Base line for
 sections (see next pg)
 8-29-47



BM. 4.59 104.59

100

0+00

1+31.6 = culvert over base = 7.7 E of
outside W rd wall

2+05

River Road
Sections to determine
approx ydage
8-29-47

Ret
Spk N root 8" Syc 55

East ←

5.6	15.1	12	7.5	5.7	5.3
36	28	79	14	8	4

F. R. R. WALL

87.4		100.3	100.2
17.2	-	4.3	4.4
28		8	4

EDGE
NEW
FILL

16.5	8.5	3.2	2.6
28	18	12.5	4

EDGE
TRAIL
ROAD

BM 0.92 870.13 869.21

G

2+0

ck levels in channel

70.13

856.3

13.83

70.13

856.5

13.63

70.13

857.1

13.03

1450

8-29-47

0+0

Chag. River

56

14.1

Ground

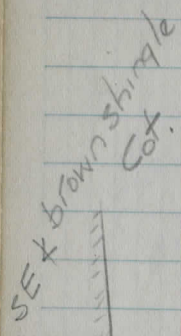
14.0

Ground

± 12.8

FL River

Dam(n) data



± dam

97-50
195-44

used
0+0

See
next pg

3pk

26.70

3up

spe side

Willow W
side
swim
hde

ctr 7" Mulberry
on river
bank

Sections for + ydage
placed in dam

1+50

1+00

0+50

0+0

BM 0.69

869.21

W

E

E

57

$\frac{6.4}{28}$	$\frac{6.8}{28}$	$\frac{7.3}{19}$	$\frac{9.4}{7}$	$\frac{12.4}{4}$	$\frac{34}{E}$
				RIVER	E. Edge RIVER

Level	$\frac{2.8}{30}$	$\frac{5.9}{21}$	$\frac{6.4}{8}$	$\frac{7.7}{E}$	$\frac{11.8}{10}$
					RIVER

Level	$\frac{3.8}{E}$	$\frac{5.1}{5}$	$\frac{9.5}{16}$	$\frac{12.8}{18}$
			RIVER	

Level	$\frac{4.2}{CL}$	$\frac{4.5}{7.5}$	$\frac{7.3}{15}$	$\frac{7.6}{21}$	$\frac{10.9}{27.5}$
					RIVER

W

E

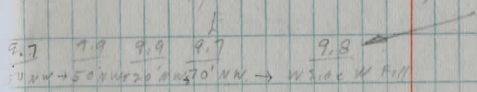
BM

4.57 869.36 864.79

12.3
15° E - E 500 ft
R.H.H.

Vert spk in Syc

859.6



3-18-48

Soundings Thompson Ctr.

G = Grav C = Cinder

67+20

55

55-57 Fr DRS

44

33

22+0

14 to 15 Fr drains

13+0

3+0

H

S 59

4"
8'

2" G 5" C

2"
8'

6"
8'

5"

8"
6'

5"
10' Edge

1 1/2"
9'

4"
6'

2" G
3" C

2" 4"
6 9

1" 6"
12' 9'

2 1/2" C 2 1/2" G

2"
5" Edge

5" G
9'

12" G

5" G
6'

1"
9'

4" G
9'

10" G 4" C
6'

2" G 5" C

4" G 1 1/2"
6 9

1/2" 1"
9 6

5" G 4" C
4 1/2

1" G
4" C

5" G 1 1/2"
6 9

95

12"
7
edge

13"

4" 1"
6 9River down
ditch (tile!)

87

4"
9

9" C&G

3" clay
6 9

76+78

0" 3" Mixed clay & Grav
9' 6

2" G 5" C

4" 2"
6 8

Sidley Rd (CH. 58 Sec A)

Levels on Bridge outlet about 1/2 mi

Rd

3.60

2.42

9.9

7.35

8.35

9.4

6.75

10.05

8.25

10.25

8.35

(1ft water)

no water

10/2/48

61

North of S. line Thompson

Top E. end N. bidge abutment

~~bridge floor~~ (top plank)

Top mud sills

50' E of road \pm in ditch

100' " " " " " " " " on N.

250' " " " " " " " " (X) dropping

" " " " (ground) " " " "

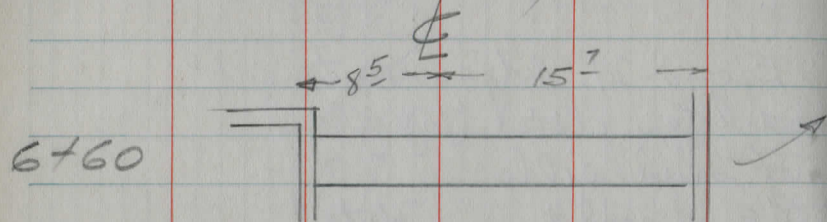
500' " " " " in ditch " " " "

" " " " ground " " " "

700' " " " " in ditch

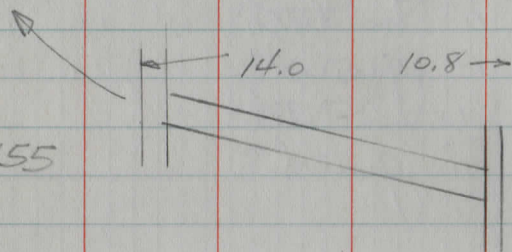
" " " " ground

culvert Ext. No 7 G-H

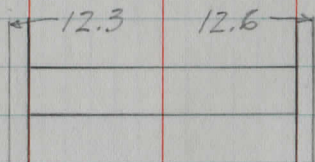


6+60

6+70 Dr. pipe Lt 11.6



16+55



17+70

20+17 Dr pipe Lt 12.5

21+96 " " Rt 12.5

33+47 " " Rt 12

3-28-49 SM FCP

62

Plan = Ext. 16' NW with 24" RCP
12' use with
cone C.B.

Plan = Replace with 36' of 42" RCP

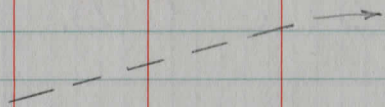
Cut 6' Rt with cone slabs

Plan = Remove top 12" of hdwls
Ext 4' Rt & 8' Lt with 27" RCP
24"

35±0 Dr pipe Lt 19'

39±0 " " Rt 12'

46±35

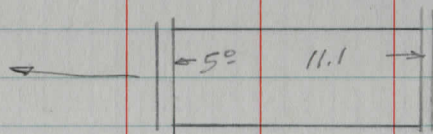


47±10 Dr pipe Lt 13.0 Plan = Slope ditch to
culvert 46±35

47±48 " " Rt 12.5

52±66 " " Lt 15.5

54±02



55±99 Plan = Salvage exist 30" x 28" pipe

56±54

57±80 6" Dr. tile 14' Rt

No exist culvert Plan = 36" x 24" RCP
with stop walls

Plan = Ext 8' Lt

culvert

Plan = Ext both ends 4' with 18" pipe

Plan = Replace with 12" pipe

59+52

59+09 = E Sidley Rd

59+52

62+44 Dr pipe Rt 12'

67+43 Dr Lt

69+43 Dr pipe Lt 15'

80+74 " " Rt 13'

90+11 " " " 13'

93+91

Plan = Clean outlet only

64

plan
Eliminate exist culvert long ^{40'} 48' x
30" pipe at Sta. 59+42 Use
salvaged pipe from 55+99

Plan = E/H 5' Lt & 4' Rt

+ H I - E

SISSON RD CULVERT

B.M.	7.30	107.30		100.00
			9.8	92.5
Set at	B.S.	Stadia	Ang	Rod
"A"	"B"			4.33
		65'	155-00	5.55
		130'	221-20	10.80
		111'	246	10'
T.P.	4.72	98.53	8.29	93.81
T.P.			8.76	93.54
"D"	"A"	5'	90-0	5.7
		5'	90-0	6.0
		112'	209-30	6.8
T.P.	3.83	97.37		93.54
"C"	"A"	96.	19-07	6.6
		170.	H.A. 22-24 V.A. 2-14+	13.0-6.53
		115	84-16	7.7
		170	97-40	8.2
		230	123-10	8.5
		220	161-50	9.0
	ang to E		192-25	
T.P.	A.62	95.69	6-30	91.07
E	C	93	127-20	8.3
		^M 244.3	135-03	
			95-35	

SE & E end So. hdwl
outlet F.L. H₂O 1.6

& Rd & culvert

& Where H₂O goes over Road

H₂O 2.4, Chan'l bend Wly

H₂O 1.4'

± 1/2 way between A & C

H₂O 1.0

& Chan'l H₂O 1' bend West; Main Chan'l - Smaller
Chan'l to the North

MAIN CHAN'L H₂O 1', Mostly Wly & heads South

H₂O 1' Chan'l NE BENDS W

H₂O 1' Just Main Chan'l

H₂O 1.2' Only Chan'l BENDS Wly from due South

H₂O 1' " " S. End H-Shoe bend

H₂O 1.3' Main Chan'l from SE to W

H₂O 1.9' Only Chan'l

"C" Next to P.P.

Set at BS 95.69

TP 6.00 97.64 4.05 91.64

F E

	STAD	ANG	ROD	
	160'	273-04	10.80	87.3
	210'	223-32	11.7	85.9

B.M. 6.32

Final Grades 5/17/50

+ M' ELV

BM -5 99.5 100.00

D+0 99.5
91.5 G
8.0 8.0 R
2.5
5.5 C

F.L. (exist)

1+0 99.5
91.0 G 8.5
8.5 3.0 R
5.5 C Ch 6.7 R

2+0 99.5
90.5 G 9.0
9.0 3.5 R
5.5 C Gd 6.2 R

TP 3.50 97.4 1.40 96.00

3+0 90.0 G 7.4
7.4 2.9 R
4.5 C Ch 5.6 R

4+0 97.4 7.9
89.5 G 1.4 R
7.9 6.5 C Gd 4.5

H₂O 1' Only Ch 1 75' Downstream from Culvert Stream

H₂O 1' " "

5th Street 8" Apple East & South of Confluence

at 1st bend Set culat

5+0 97.4
89.0 G 8.4
8.4 4.9 R
3.5 C

5+07 F.L. exist Ch 8.1

5-8-51 MERRITT & MAYNARD

MORGAN ROAD #26

BM.	4.03	104.03	100.21	100 MAIL W. Side CEI Pole
-----	------	--------	--------	------------------------------

This is a 28" 1-15 to be replaced with one 24" OUTLET NEEDS

blasting

5-8-51 MERRITT & MAYNARD

PHILLIPS ROAD #40

BM.	6.23	1059.42	1053.19
-----	------	---------	---------

TP.	4.19	1059.71	3.90 1055.52
-----	------	---------	--------------

31+51^S

7

L

5-4-53 LEVELS ON OUTLET AFTER PARTIAL BLOWING

MAYNARD
LARGEN

BM.	4.32	59.84	1055.52
-----	------	-------	---------

50' North	8.76	51.08
-----------	------	-------

Hump 100' N	8.73	51.11
-------------	------	-------

BEND to EAST	9.8	50.04
--------------	-----	-------

50' W of NEST FENCE	10.3	49.54
---------------------	------	-------

CULVERT O. L. F. L.	8.06	51.78
---------------------	------	-------

W.

734
30

E.

C8

72' South Culvert at Sta 100+33±	CM 26 Hanger Road
97.1	99.6 97.2 96.3 94.6 92.9 91.8
6.9	4.4 6.8 7.7 9.4 11.1 12.2
INLET #1.	O. L. F. L. 100 200 300 400

N.

S.

SPK 2" down in S.E. Root 24" Elm 25' North of 36+40

Highest Pt E. End N. Hdwall of Culvert at 31+51^E

Good Stop Walls	DECT?	Wood Floor	Field Drain
48.7 49.5 50.8 51.1 51.6 52.1 51.6 1054.7	51.8	52.0	From South
100 19.2 8.9 8.6 8.1 7.6 8.0 5.0	7.92	7.69	
430 400 300 250 200 150 outlet #1.	F.L.	F.L. F. L.	Down
BEND EAST			

CULVERTS with Stream from 36+25

B.M. 2.85 102.85 100

THIS STATION PROBABLY 72+60 IN F.B. 152 PAGE 15 & 35

~~77~~ 72+60

32'
15" Pipe

~~78~~ 73+20

~~78~~+60 73+80

~~79~~ 74+20

~~80~~ 75+20

~~81~~ 76+20

~~82~~ 77+20

TOP SURVEY PIPE W. END (Ball) ~~77+40~~ 72+60

98.3

~~96.3~~

4.55

100.9

98.3

~~96.3~~

4.6

DITCH

100.9

2.0

99.9

3.0

97.6

5.3

FL

98.0

2.9

E. DITCH SOURCE
C. H. HALL

97.8

5.1

99.4

3.5

97.8

5.1

Chas. flows
to E. of from ditch

97.6

5.3

15

98.9

4.0

97.9

5.0

15

DITCH

97.2

5.7

5.0

CAI

96.4

6.5

15

98.2

4.7

96.9

6.0

15

DITCH

97.0

5.9

30

CAI

95.9

7.0

5.0

CAI

95.8

7.8

17

97.0

5.9

95.4

7.5

15

DITCH

95.5

7.4

5.0

CAI

94.0

8.9

11.0 CAI

94.6

8.7

17

96.1

6.8

94.4

8.5

15

96.7

6.2

20

93.8

9.1

7.5

13.5

+

1/1

-

ELL

BM 5.95 996.85

990.90 ✓

1.97 994.8

also T.P.

 $5.00 + 21.72 = 26.72 = 970.13$

143 ± 67 new

3.58 993.2

6.16 990.7

1.15 995.7

143 ± 67 new

0.10 996.7

T.P. 9.62 1005.43 ✓

1.04 995.81 ✓

142 ± 0 new

3.68 1001.8

4.2 1001.2

T.P. 11.62 1015.88 ✓

1.17 1004.26 ✓

140 ± 97

5.87 1010.0

140 ± 97

3.45 1012.4

140 ± 97 new

9.4 1006.5

1.5 1014.4

T.P. 9.76 999.89

970.13

10.35 969.5

5.2 974.7

4.24 975.6

Spl E root 12" Wch 15' SW of

6' S.W. of P.I. Proposed N. Side Gulch ^{UP ME.} Down S.W. Bank 12' SVert $\approx 20^{\circ}10'$ & Stream Studio (on slope) 63'

E Prop 100' N 112' E of Old P.I. S of Gulch

30' E of Next above. Brink at 25' more E.

30' W + 2d "

E Prop 115' NE. UP 1'; 30' SW. Down 1'; 30' EN; 45' to Brink

E Prop 65' NE

LENGTH WESTLY

22' E of Next above Drops 10' in 30' out.

prop E 3' E

30' E NEXT ABOVE

Prop New P.I. (to present metal)

100' EAST NEXT ABOVE "

ELY from Vert 8 (43' net 17')

50' W of TP & Creek UNDER E 1/3 present bridge

50' E of Prop E (channel) (Spring in N bank)

100' E of " " "

6-23-55

Elev on the first three culverts E of Rt 528
on Burrows Rd. Montville Thompson Twp.

	+	HI	-	elev
B.M.	7.63	107.63		100.0
T.P.	11.92	119.00	0.55	107.08
T.P.	8.30	127.21	0.09	118.91
T.P.	4.43	128.37	3.27	123.94
T.P. (x)			4.81	123.56

HI for culvert.

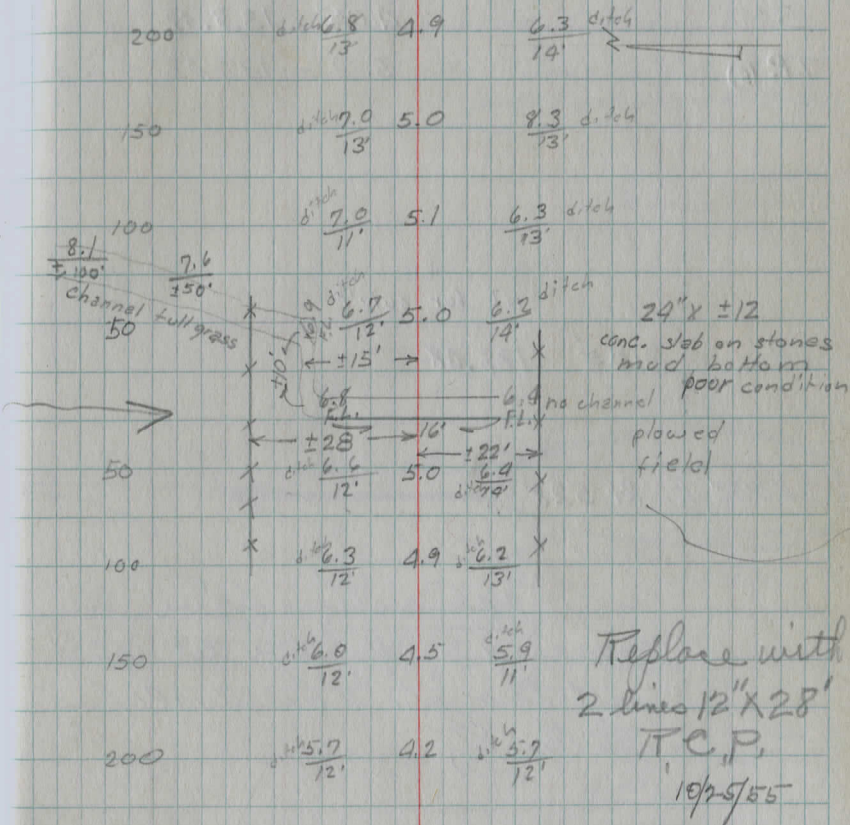
T.P. (x) 4.78 128.34 123.56

± 3500' E Rt 528

slab was made in 3 or 4 sections
middle sections have probably fallen.

71

spk in N.W. root most E elev by first bridge E of
Rt 528 on Burrows Rd.



6/23/55

	+	HI	-	Elev
T.P. (x)	9.78	128.34		123.56
T.P.	6.94	131.11	3.67	124.67
T.P.	8.42	137.57	1.96	129.15
B.M.			4.05	133.52
T.P. (s)			5.14	132.43

HI for colv't

T.P. (s) 3.05 135.48

± 2300' E. Rt 528

stone footers have partially fallen
in. slab sections have
separated and have let road
fall through. N headwall has
fallen off.

172

Vert. spk. SW root 12" maple ± 300' E of second
colv't E of Rt 528 on N side Burrows Rd.
(most Ely of a group of 3 map)

200 $\frac{4.7}{12'}$ 3.6 $\frac{4.7}{12'}$ 150 $\frac{5.3}{12'}$ 4.2 $\frac{5.4}{12'}$ 100 $\frac{6.1}{13'}$ 4.5 $\frac{5.5}{12'}$ 50 $\frac{6.4}{10'}$ 4.6 $\frac{6.0}{12'}$ ditch

82
100' $\frac{9.5}{5.50}$ $\frac{6.6}{10'}$ 4.1 $\frac{6.8}{12'}$ no channel
channel has been cleaned 20.65' $\frac{6.9}{15'}$ 4.6 $\frac{6.5}{12'}$ planted field

100 $\frac{6.5}{13'}$ 4.7 $\frac{6.2}{12'}$ 150 $\frac{6.3}{12'}$ 4.6 $\frac{5.9}{10'}$ 200 $\frac{6.1}{13'}$ 4.4 $\frac{5.6}{11'}$

36" x 12"
conc slab on stone
footers. Very poor
condition

Replace to
24" x 28"

RCP
10/25/55

occupation

6/23/55

	+	HZ	-	elev
T.P. (S)	305	135.48		132.43
T.P.	5.60	137.37	3.71	131.77
T.P.	5.49	139.09	3.77	133.60
T.P. (B)			4.00	135.09

HF for culvt

T.P. (B) 4.25 139.34

± 800' E R4528

Slab sections have partially
fallen.

73

200 $\frac{6.2}{12'}$ 4.8 $\frac{6.0}{12'}$

150 $\frac{5.9}{13'}$ 4.5 $\frac{5.8}{12'}$

100 $\frac{6.1}{13'}$ 4.4 $\frac{5.6}{12'}$

50 $\frac{6.4}{13'}$ 4.6 $\frac{6.1}{11'}$

50 no channel $\frac{6.0}{FL.}$ 4.3 $\frac{6.2}{FL.}$

50 brush $\frac{6.2}{13'}$ 4.8 $\frac{6.3}{13'}$

100 $\frac{5.8}{13'}$ 4.5 $\frac{6.1}{13'}$

150 $\frac{5.7}{13'}$ 4.2 $\frac{5.8}{13'}$

200 $\frac{5.1}{14'}$ 3.8 $\frac{5.4}{13'}$



18" x 10"
conc. slab on stone
footer poor condition

no channel 6/55
← $\frac{6.1}{100'$ plowed ← $\frac{6.6}{200'$

See pg. 74 #75
also

Replace

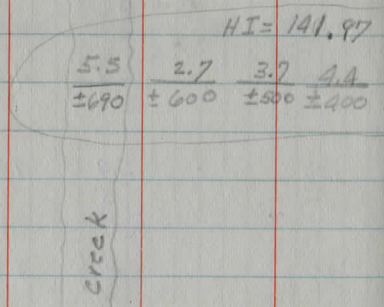
2 times
12" R.C.P.

Occupation

10/25/55

	+	HI	-	elev
BM	3.04	136.56		133.52
T.P.	4.35	135.78	5.13	131.43
T.P.	6.08	138.72	3.14	132.64
T.P.	4.93	139.90	3.75	134.97
BM			3.65	136.25
T.P.	5.06	141.97	2.99	136.91
T.P.	2.96	139.86	5.07	136.90
B.M.			3.61	136.25

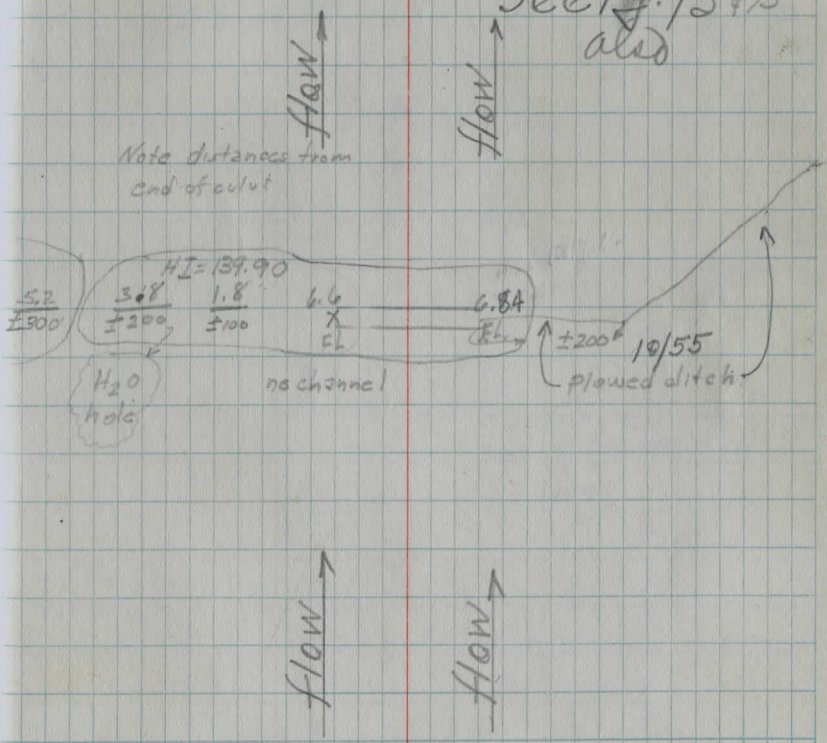
±800' E Rt 528



Vert spt. SW root 12" maple ±300' E of second culv't E of Rt 528 on N side Burrows Rd

Spt W. side C.E.I. #92622 by culv't ±800' E of Rt 528, N side Burrows Rd.

See pg. 73 & 75 also



	+	HI	-	elev
B.M.	3.68	139.93		136.25
B.M.			3.68	136.25

10/26/55

75

occupation

$$\frac{21}{12} \times 6.4 = \frac{7.6}{12}$$

$$\frac{28}{12} \times 6.0 = \frac{7.3}{12}$$

$$\frac{23}{12} \times 5.65 = \frac{6.9}{12}$$

$$\frac{6.85}{12} \times 5.5 = \frac{6.65}{12}$$

$$\frac{6.7}{12} \times 5.2 = \frac{6.3}{12}$$

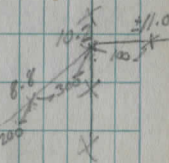
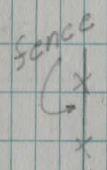
6.6

6.9

7.3

7.4

F.L. ±100 ±200



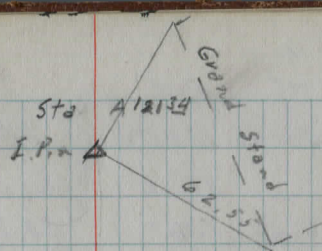
Continued from
 sec B 73 & 74
 also

July 1959

Burton Fair Grounds

Sta.	Hort. #	Dist.		
A-B	299-21	62.55	S. & Grandstand	
✓	163-33	121.34	NW 4	"
✓	00-00	80.0	+ Drive East	at Int. 53' wide
✓	70-46	50.0	CEI Pole #1	
✓	22-52	122.0	CEI "	#2
✓	00-00	99.50	+ Drive West	10' wide
✓	337-55	133.90	Elec Box outlet	E. side
✓	332-45	145.00	NW 4 Bldg	?
✓	330-00	152.4	NE 4	"
✓	334-35	157.1	SE 4	"
✓	343-09	171.5	Elec. Box	E. side
A1-B	208-50	102.1	Elec Box	E side
✓	218-20	121.5	Iron Pole	"
✓	218-01	122.7	Iron Pipe	"
✓	229-33	63.4	Elec. Box	"
✓	152-28	103.8	CEI # 3	W. side
✓	255-42	60.8	Block NW 4	S. side
✓	273-08	59.9	" SW 4	"
✓	274-27	47.7	Elec. Box	"
✓	87-42	48.6	CEI # 4	W. side
✓	318-51	71.3	Elec Box	E. side
✓	307-57	89.00	CEI # 1	E. side
✓		20.00	Drive East	at Int. 18' wide
✓	325.16	119.6	CEI # 2	E. side
✓	334.32	108.10	Elec Box	"

Bldg. Location



All 4 Turned Clockwise

Base Line "A"

300.0'

110.82'

SPK POT

sta	Hort	Dist		
H1-B	342.40	153.9	Elec Box	E side
✓		111.2	DRIVE	w. side
✓	26.45	108.1	CEI #5	w. side
✓	37.08	121.	CEI	w. 20' of CEI #5
B-C	66-11	60.65	Manhole	
✓	65-42	95.80	NE 4 Bldg	
✓	47-30	118.60	SE 4 "	
✓	31-37	94.30	CEI #6	
✓	00-00	57.60	± DRIVE w.	
✓	00-00	109.50	± DRIVE ± 60' ± to NE	
✓	309-14	99.90	NW 4 Barn	
✓	295-07	151.76	NE 4 "	
✓	327-26	123.60	CEI #3	E. side
✓	337-50	197.80	SW 4 Barn	
✓	340-15	191.20	Elec. Box	E. side
✓	15-50	183.50	CEI #7	w. side
✓	00-00	200.00	± Road w.	
B1-C1	61-35	59.70	CEI #5	w. side
✓	00-00	28.00	Rd	West
✓	335-35	57.30	Elec. Box	
✓	309-11	82.40	CEI	E side
✓	311-41	88.20	NW 4 #2	Barn
✓	294-46	138.90	NE 4	" "
✓	349-01	124.60	Elec. Box	
✓	337-03	159.50	CEI	E side
✓	336-03	162.60	SE 4 #2	Barn

Base Line "A"

← 110.55 →

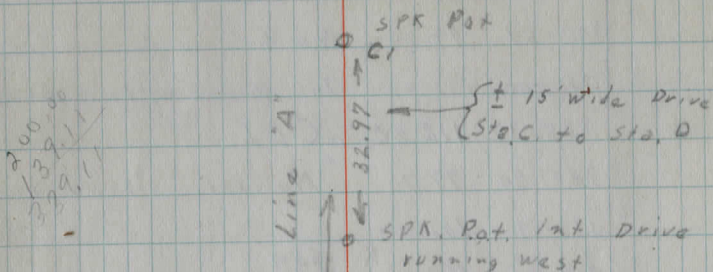
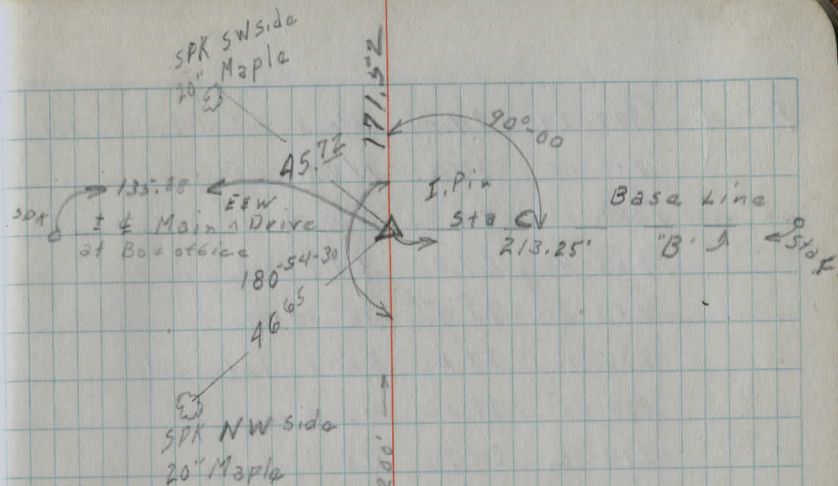
△

← 200 →

SPK POT

← 171.92 →

B ₁ -C	25-03	117.70	CEI #9 W. side
	355-43	126.90	20" Maple E. side
C ₁ -D	307-33	74.90	Stump
	317-26	89.50	CEI E. side
X	325-03	92.80	22" Basswood Tree E. side
X	316-03	124.10	22" Beech
✓	301-11	141.20	30" Maple
✓	50-39	31.80	NW # stand
✓	21-37	21.50	NE # "
X	12-27	37.15	SE # "
✓	345-49	103.20	Water meter & stand pipe
C ₁ -D	159-29	143.40	CEI W. side
X	151-53	182.60	CEI " "
X	141-00	45.70	CEI " "
X	62-22	45.80	36" Maple
✓	180-00	35.00	Int Rd E. 10' wide
✓	249-56	111.90	CEI E. side
X	287-44	92.10	24" Whitewood Truss
X	303-42	131.70	CEI E. side
✓	380-31	79.50	NE # Restroom Bldg
X	352-00	21.60	Water pipe? wall E. Pt.
✓	352-30	90.40	NW # Restroom
X	354-59	110.30	SW # "
X	04-34	107.70	SE # Sheep shed
✓	07-54	66.0	NE # "
✓	47-52	98.5	NW # "



Sta. 'D' Δ SPK. & Cook St.

F-E	199-29	94.40	NE 4	School Exhibits Bldg
	1239-15	36.60	NW 4	" " "
	1253-11	64.70	SW 4	" " "
	1255-41	67.40	CEI	S. Side
	1253-26	93.50	36"	Maple
	1236-11	33.40	SW 4	12to Bldg
	1229-55	29.00	NW 4	" "
	1214-16	34.70	NE 4	" "
	1304-52	24.50	CEI	S. side
	1281-32	113.10	SEA	Hambdan Grange Bldg
	1295-34	94.40	NE 4	" " "
	1300-54	99.50	NW 4	" " "
	1270-00	102.00	Int. Drive	S. w/ Drive E/W
	1325-37	112.20	CEI	
	1344-04	99.70	Monkala	sewer line
	1192-47	101.40	"	" "
	1317-25	163.60	SEA	N. wing Domestic Arts Bldg
	1322-47	151.90	NE 4	" " "
	1327-41	172.30	NW 4	" " "
	1336-52	160.70	CEI	Pole
	1340-47	163.80	SEA	Com. of O.E.S. Bldg
	1347-42	157.90	NE 4	" " "
	1350-26	197.30	NW 4	" " "
	100-00	147.70	Int Rd	running S.E. at $\pm 40^\circ$

Sta F Δ SPK Pot Sta C to Sta D E

255.31'

12' wide

Sta E SPK Pot & Drive S.

E1 - E	✓ 229-07	81.80	CEI Pole
	238-12	90.70	NE 4 Stand
	✓ 250-23	81.50	NW 4 "
	✓ 253-30	94.80	SW 4 "
	✓ 273-33	165.50	NE 4 old Auction Bldg
	✓ 284-24	170.80	NW 4 " " "
	✓ 287-21	169.60	CEI
	290-57	66.50	SE 4 Ticket etc.
	290-47	59.70	8" Maple
	293-54	51.40	8" Pine
	297-49	44.00	10" Pine
	309-34	37.90	NE 4 Ticket etc
	325-32	54.90	NW 4 " "
	15-25	67.50	CEI
	52-34	95.40	30" Maple
	85-16	67.50	NW 4 old Foundation
	83-12	32.20	SW 4 " "
	109-40	34.50	SE 4 " "

97.01

sta E Δ spk \pm Δ Claridon-tray
(E)

7-0
 8-0
 9-0
 +50
 10
 +50
 11
 11-60

11.59
 9.08
 2.51

CURVE TABLES.

Published by KEUFFEL & ESSER CO.
HOW TO USE CURVE TABLES.

Table I. contains Tangents and External to a 1° curve. Tan. and Ext. to any other radius may be found nearly enough, by dividing the Tan. or Ext. opposite the given Central Angle by the given degree of curve.
 To find Deg. of Curve, having the Central Angle and Tangent: Divide Tan. opposite the given Central Angle by the given Tangent.
 To find Deg. of Curve, having the Central Angle and Tangent: Divide Ext. opposite the given Central Angle by the given External.
 To find Nat. Tan. and Nat. Ex. Sec. for any angle by Table I.: Tan. or Ext. of twice the given angle divided by the radius of a 1° curve will be the Nat. Tan. or Nat. Ex. Sec.

EXAMPLE.

Wanted a Curve with an Ext. of about 12 ft. Angle of Intersection or I. P. = 23° 20' to the R. at Station 542+72.

Ext. in Tab. I opposite 23° 20' = 120.87
 $120.87 \div 12 = 10.07$. Say a 10° Curve.

Tan. in Tab. I opp. 23° 20' = 1183.1
 $1183.1 \div 10 = 118.31$.

Correction for A. 23° 20' for a 10° Cur. = 0.16
 $118.31 + 0.16 = 118.47 =$ corrected Tangent.

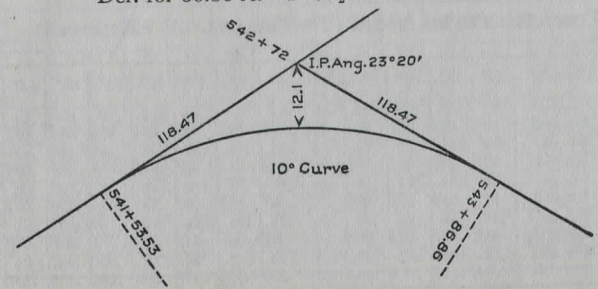
(If corrected Ext. is required find in same way)
 Ang. 23° 20' = $23.33^\circ \div 10 = 2.3333 =$ L. C.

2° 19½' = def. for sta.	542	I. P. = sta.	542 + 72
4° 49½' = " " "	+50	Tan. =	1.18.47
7° 19½' = " " "	543	B. C. = sta.	541 + 53.53
9° 49½' = " " "	+50	L. C. =	2.33.33
11° 40' = " " "	543 +	E. C. = Sta.	543 + 86.86
	86.86		

$100 - 53.53 = 46.47 \times 3' (\text{def. for 1 ft. of } 10^\circ \text{ Cur.}) = 139.41' =$
 2° 19½' = def. for sta. 542.

Def. for 50 ft. = 2° 30' for a 10° Curve.

Def. for 36.86 ft. = 1° 50½' for a 10° Curve.



Natural Trigonometrical Functions

Angle.	Sin.	Tan.	Sec.	Cosec.	Cotg.	Cosin.	Angle.	Sin.	Tan.	Sec.	Cosec.	Cotg.	Cosin.		
32	.5299	.6249	1.1792	1.887	1.600	.84805	58	39	.6293	.8098	1.2868	1.589	1.235	.77715	51
10	.5324	.6289	1.1813	1.878	1.590	.84650	50	10	.6316	.8146	1.2898	1.583	1.228	.77531	50
20	.5348	.6330	1.1835	1.870	1.580	.84495	40	20	.6338	.8195	1.2929	1.578	1.220	.77347	40
30	.5373	.6371	1.1857	1.861	1.570	.84339	30	30	.6361	.8243	1.2959	1.572	1.213	.77162	30
40	.5398	.6412	1.1879	1.853	1.560	.84182	20	40	.6383	.8292	1.2991	1.567	1.206	.76977	20
50	.5422	.6453	1.1901	1.844	1.550	.84025	10	50	.6406	.8342	1.3022	1.561	1.199	.76791	10
33	.5446	.6494	1.1924	1.836	1.540	.83867	57	40	.6428	.8391	1.3054	1.556	1.192	.76604	50
10	.5471	.6536	1.1946	1.828	1.530	.83708	50	10	.6450	.8441	1.3086	1.550	1.185	.76417	50
20	.5495	.6577	1.1969	1.820	1.520	.83549	40	20	.6472	.8491	1.3118	1.545	1.178	.76229	40
30	.5519	.6619	1.1992	1.812	1.511	.83389	30	30	.6494	.8541	1.3151	1.540	1.171	.76041	30
40	.5544	.6661	1.2015	1.804	1.501	.83228	20	40	.6517	.8591	1.3184	1.535	1.164	.75851	20
50	.5568	.6703	1.2039	1.796	1.492	.83066	10	50	.6539	.8642	1.3217	1.529	1.157	.75661	10
34	.5592	.6745	1.2062	1.788	1.483	.82904	56	41	.6561	.8693	1.3251	1.524	1.150	.75471	49
10	.5616	.6787	1.2086	1.781	1.473	.82741	50	10	.6583	.8744	1.3284	1.519	1.144	.75280	50
20	.5640	.6830	1.2110	1.773	1.464	.82577	40	20	.6604	.8796	1.3318	1.514	1.137	.75088	40
30	.5664	.6873	1.2134	1.766	1.455	.82413	30	30	.6626	.8847	1.3352	1.509	1.130	.74896	30
40	.5688	.6916	1.2158	1.758	1.446	.82248	20	40	.6648	.8899	1.3386	1.504	1.124	.74703	20
50	.5712	.6959	1.2183	1.751	1.437	.82082	10	50	.6670	.8952	1.3421	1.499	1.117	.74509	10
35	.5736	.7002	1.2208	1.743	1.428	.81915	55	42	.6691	.9004	1.3456	1.494	1.111	.74314	48
10	.5760	.7046	1.2233	1.736	1.419	.81748	50	10	.6713	.9057	1.3492	1.490	1.104	.74120	50
20	.5783	.7089	1.2258	1.729	1.411	.81580	40	20	.6734	.9110	1.3527	1.485	1.098	.73924	40
30	.5807	.7133	1.2283	1.722	1.402	.81412	30	30	.6756	.9163	1.3563	1.480	1.091	.73728	30
40	.5831	.7177	1.2309	1.715	1.393	.81242	20	40	.6777	.9217	1.3600	1.476	1.085	.73531	20
50	.5854	.7221	1.2335	1.708	1.385	.81072	10	50	.6799	.9271	1.3636	1.471	1.079	.73333	10
36	.5878	.7265	1.2361	1.701	1.376	.80902	54	43	.6820	.9325	1.3673	1.466	1.072	.73135	47
10	.5901	.7310	1.2387	1.695	1.368	.80730	50	10	.6841	.9380	1.3711	1.462	1.066	.72937	50
20	.5925	.7355	1.2413	1.688	1.360	.80558	40	20	.6862	.9435	1.3748	1.457	1.060	.72737	40
30	.5948	.7400	1.2440	1.681	1.351	.80386	30	30	.6884	.9490	1.3786	1.453	1.054	.72537	30
40	.5972	.7445	1.2466	1.675	1.343	.80212	20	40	.6905	.9545	1.3824	1.448	1.048	.72337	20
50	.5995	.7490	1.2494	1.668	1.335	.80038	10	50	.6926	.9601	1.3863	1.444	1.042	.72136	10
37	.6018	.7536	1.2521	1.662	1.327	.79864	53	44	.6947	.9657	1.3902	1.440	1.036	.71934	46
10	.6041	.7581	1.2549	1.655	1.319	.79688	50	10	.6967	.9713	1.3941	1.435	1.030	.71732	50
20	.6065	.7627	1.2577	1.649	1.311	.79512	40	20	.6988	.9770	1.3980	1.431	1.024	.71529	40
30	.6088	.7673	1.2605	1.643	1.303	.79335	30	30	.7009	.9827	1.4020	1.427	1.018	.71325	30
40	.6111	.7720	1.2633	1.636	1.295	.79158	20	40	.7030	.9884	1.4061	1.422	1.012	.71121	20
50	.6134	.7766	1.2661	1.630	1.288	.78980	10	50	.7050	.9942	1.4101	1.418	1.006	.70916	10
38	.6157	.7813	1.2690	1.624	1.280	.78801	52		.7071	1.	1.414	1.414	1.	.70711	45
10	.6180	.7860	1.2719	1.618	1.272	.78622	50								
20	.6202	.7907	1.2748	1.612	1.265	.78442	40								
30	.6225	.7954	1.2778	1.606	1.257	.78261	30								
40	.6248	.8002	1.2808	1.601	1.250	.78079	20								
50	.6271	.8050	1.2838	1.595	1.242	.77897	10								

Cosin. Cotg. Cosec. Sec. Tan. Sin. Angle

Cosin. Cotg. Cosec. Sec. Tan. Sin. Angle

.6 higher

9.4

1.4

8.0

5.9

2.1

7.1

1.5

5.6

5.1

3.6

1370.5

274.1

1096.4

544.5
311.2
1096.4
1962.1
400
2362.1
137.05
2499.15

2478.7
2362.1
116.6

$$\begin{array}{r} 12.6 \\ 2.6 \\ \hline 15.2 \end{array}$$

$$\begin{array}{r} 12.6 \\ 1.4 \\ \hline 14.2 \end{array}$$

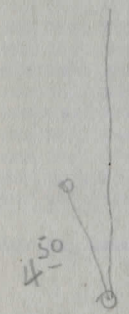
$$\begin{array}{r} 85 \\ 55 \\ 50 \\ 80 \\ \hline 270 \end{array}$$

$$\begin{array}{r} 68 \\ 77 \\ \hline 145 \end{array}$$

$$\begin{array}{r} 8.0 \\ 5.4 \\ \hline 272.6 \\ 1.3 \end{array}$$

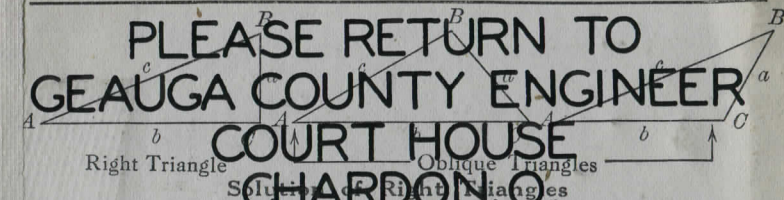
$$\begin{array}{r} 10.5 \\ 1.1 \\ \hline 9.4 \end{array}$$

$$\begin{array}{r} 1068 \\ 2.70 \\ 871.2 \\ 268.2 \\ 268.6 \\ \hline 2478.70 \end{array}$$



$$\begin{array}{r} 05 \\ 75 \\ \hline 30 \end{array}$$

TRIGONOMETRIC FORMULÆ



PLEASE RETURN TO
 GAUGA COUNTY ENGINEER
 COURT HOUSE
 CHARDON, O.
 PHONE 250-X

Right Triangle Oblique Triangles

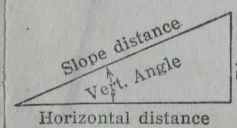
For Angle A. $\sin A = \frac{a}{c}$, $\cos A = \frac{b}{c}$, $\tan A = \frac{a}{b}$, $\sec A = \frac{c}{b}$, $\csc A = \frac{c}{a}$

Given	Required	Formula
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B, c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B, b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90^\circ - A, b = a \cot A, c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A, a = b \tan A, c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A, a = c \sin A, b = c \cos A$

Solution of Oblique Triangles

Given	Required	Formula
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180^\circ - C, \tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a + b + c}{2}, \sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}, C = 180^\circ - (A + B)$
a, b, c	Area	$s = \frac{a + b + c}{2}, \text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
A, b, c	Area	$\text{area} = \frac{b c \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = $5^\circ 10'$. From Table, Page IX, $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft. Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\cos 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ ft.

When the rise is known, the horizontal distance is approximately: — the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.

