PLAN SURVEY.

OF

COUNTY ROAD 'F'

From S.T.H. No. 8 to S.T.H. No 8 ~

PROJ. NO. 29-17

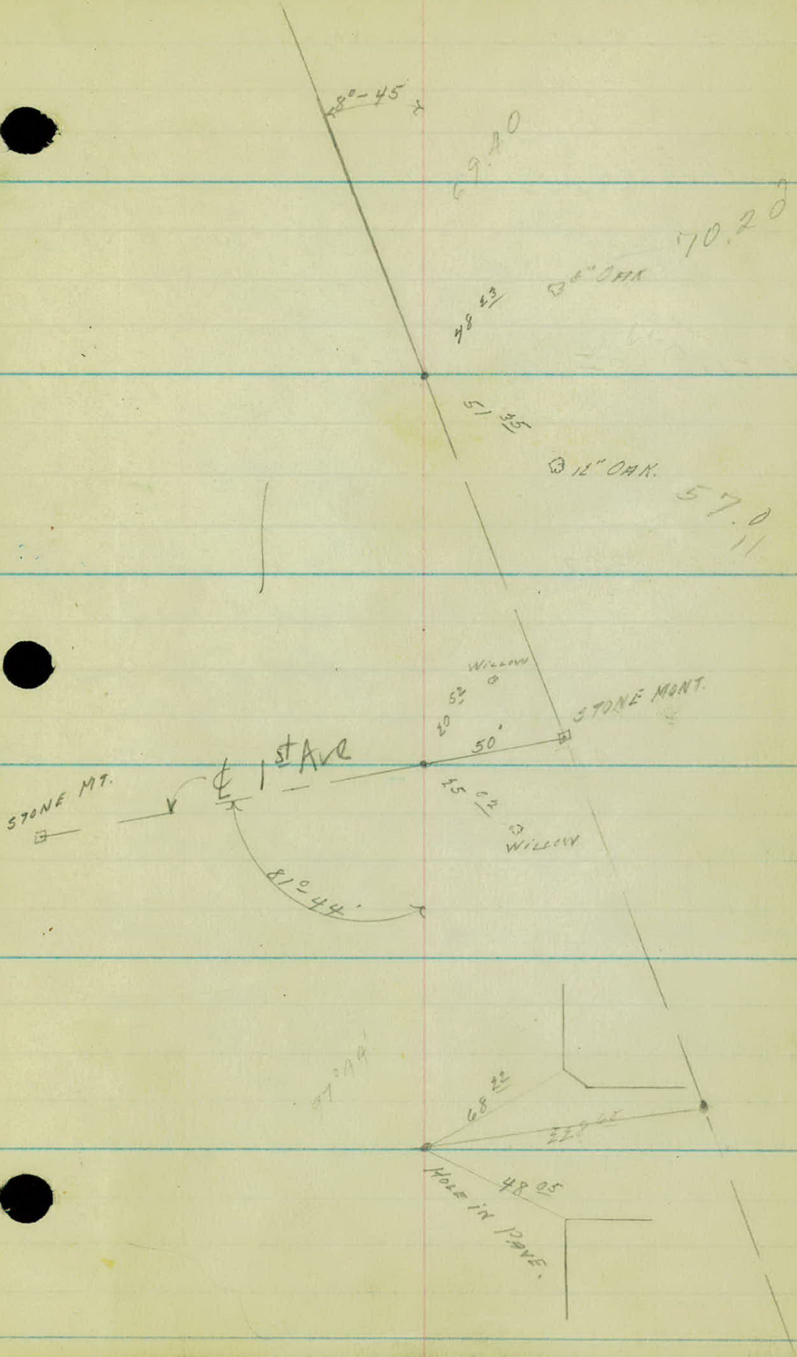
PROJ # 29-17

ALLIGNMENT FROM S.T.H. # 63

TO S.T.H. # 62

STA.	POINT	Δ LT	Δ RT
18+65 ^{32}	P.T.	4°-22 ^{5} ✓	
18		3°-43	
+50		3°-13	
17		2°-43	
+50		2°-13	
16+47 ^{0}	P.I.		Δ-8°-45
16		1°-43	D-2° L.
+50		1°-13	T-219 ^{18} ✓
15		0°-43	L-437 ^{5} ✓
+50		0°-13	R-2,864.93 ✓
14+27 ^{82}	P.C.	0°-00 ✓	
15+18 ^{48}	P.O.T.		
0+00			

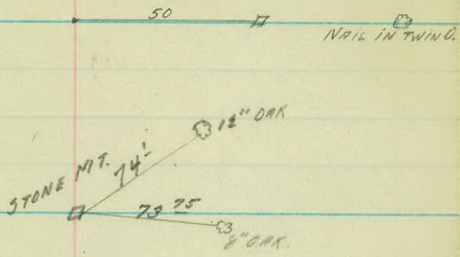
11-20-28



8°-45'
70.20
8" OAK
48 23
51 35
12" OAK.
57.0
WILLOW
STONE MONT.
50'
℄ 1st Ave
STONE MT.
WILLOW
81°-44'
68 22
48 05
HOLE IN PAVE.

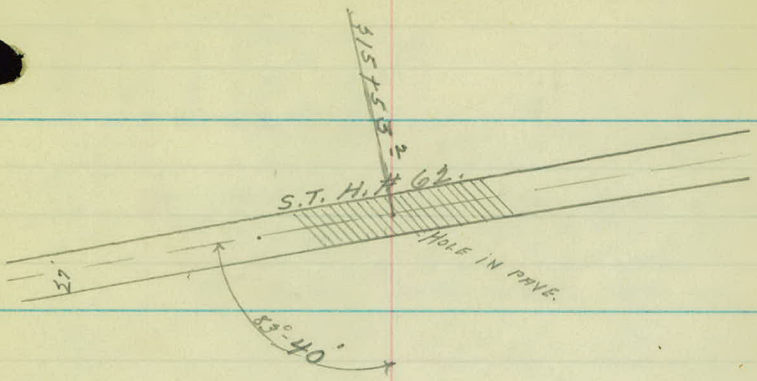
STA	POINT	Δ LT.	Δ RT.
$42+76^{5}$	P.O.T.		
$39+61^{95}$	P.I.		$1^{\circ}06'$
$38+66^{8}$	P.O.T.		
$29+55^{75}$	P.O.T.		
$28+20^{95}$	P.O.T.		
$25+73^{0}$	P.O.T.		

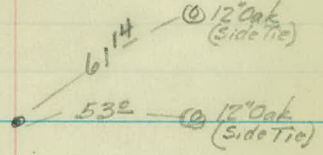
11-21-28

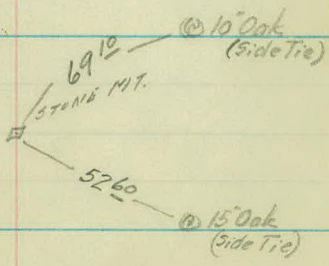


STA	POINT	Δ LT.	Δ RT.
61+51.7	See Curve note		
59+29.8	P.O.T.		
53+90.0	P.O.T.		
51+93.0	P.O.T.		

11-21-28


Sta. 15+53.2
S.T. H. # 62.
HOLE IN PAVE.
83° 40'


61 1/4
12" Oak (Side Tie)
53°
12" Oak (Side Tie)


69 1/2°
10" Oak (Side Tie)
STONE MT.
52 1/2°
15" Oak (Side Tie)

PROJ # 29-17

ART. TOPOG. FROM
STA. 0+00 TO STA. 61+51.

4

3

2

1

0700

11-22-2

℄ ROAD 2

+81 X F.33

+61 X DRAIN 24
24" X 44' VIT.

F.31

F.31

+44 F.COR 32

+99 OUT HOUSE 4
5^5 X 10'

+97 OIL RACK 7
+65 OIL RACK 7
6' X 32'
+32 T.P. 27
+26 HYD 21

-23^5 PAVE 30
-33^5 PAVE 19^7
-53^5 PAVE 19^5
-53^5 PAVE 4^5

+75 F 30
+66 X DRAIN 19

+42 F COR 18
+39 F 45
+25 DITCH 46

℄ ROAD 1
F 18^5

+96 BEG F 23
℄ ROAD 3
+94 ENT.
+80 X F.31

+64 - 12' - 7 - 29
+54 BARN 3^5

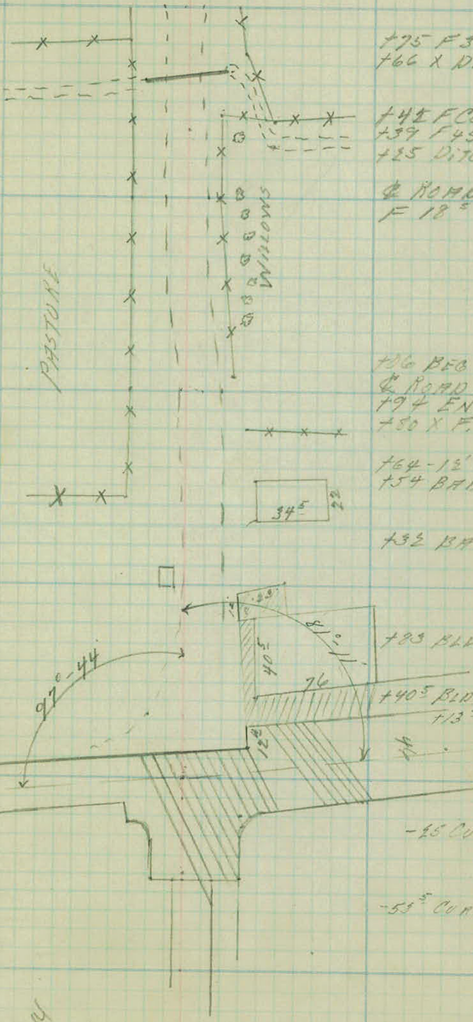
+32 BARN 38

+83 BLDG 38

+40^5 BLDG 38^5
+13^5 PAVE 32

-25 CURB 30

-53^5 CURB 30



97-44
81-41
178-55

10

9

8

7

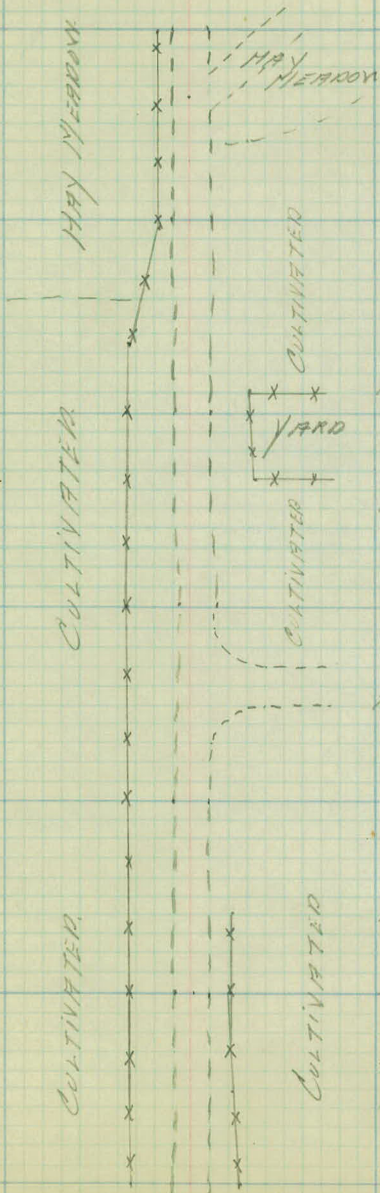
6

5

4

11-22-48

F. 18	℄ ROAD 1
	+65 F.E.
℄ ROAD 1	
+97 F. 18	
+87 FIELD ENT.	
+35 F. 33	
	+09 F. COR 30
F. 36	℄ ROAD 1
	+64 F. COR 39
F. 35	℄ ROAD 3
	+60 ℄ ROAD
℄ ROAD	
	+40 END F. 21
F. 34	F. 20
℄ ROAD 1	
	+84-12"-T-21
	+49 F. 21
	+49-24"-T-21



16

15

14

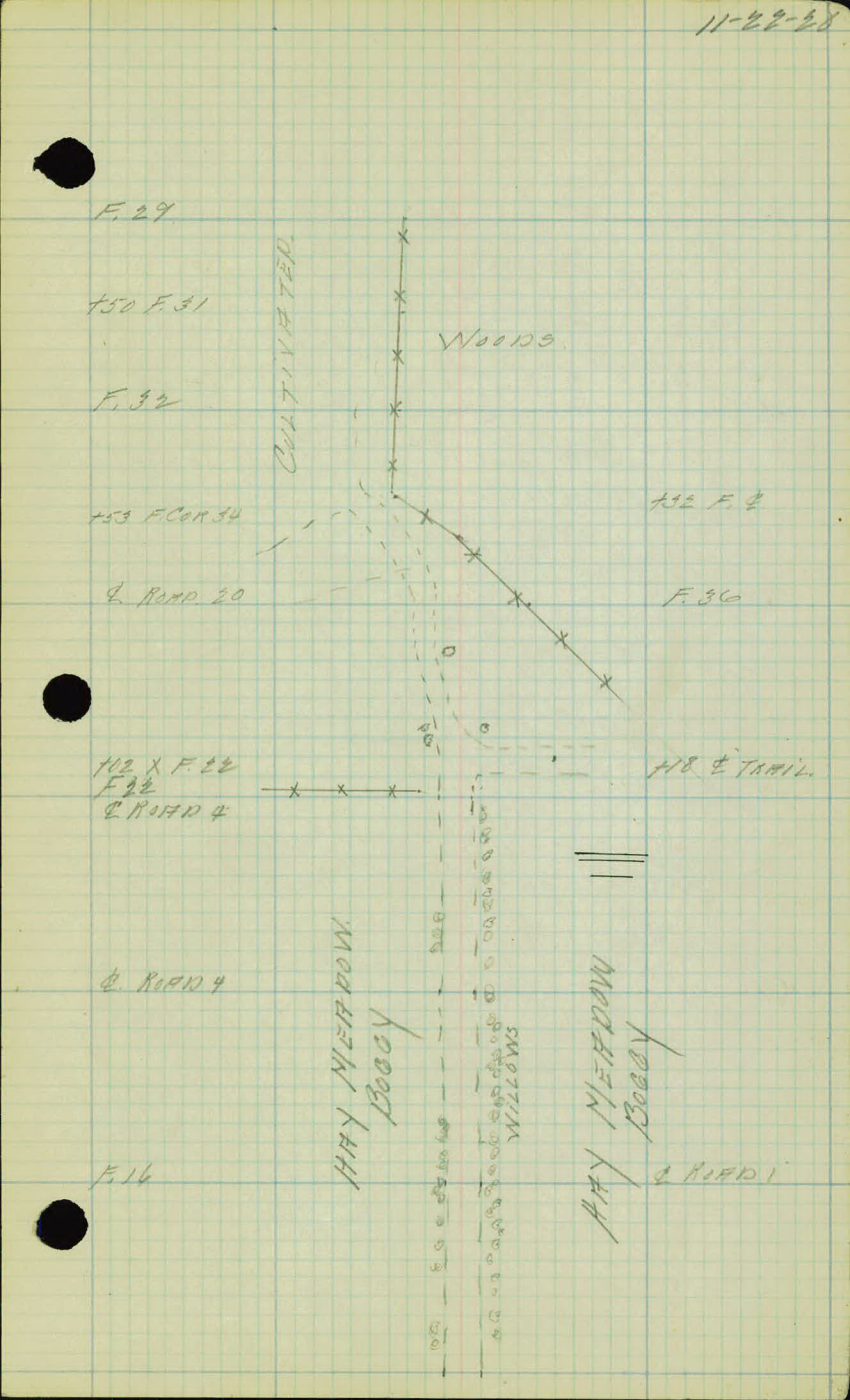
13

12

11

10

11-22-28


F. 29
+50 F. 31
F. 32
+53 F. Cor 34
℄ Road 20
+12 X F. 22
F. 22
℄ Road 4
℄ Road 4
F. 16
CULTIVATED
Woods
+32 F. ℄
F. 36
+18 ℄ Trail
HAY MEADOW
Boggy
WILLOWS
HAY MEADOW
Boggy
℄ Road 1

22

21

20

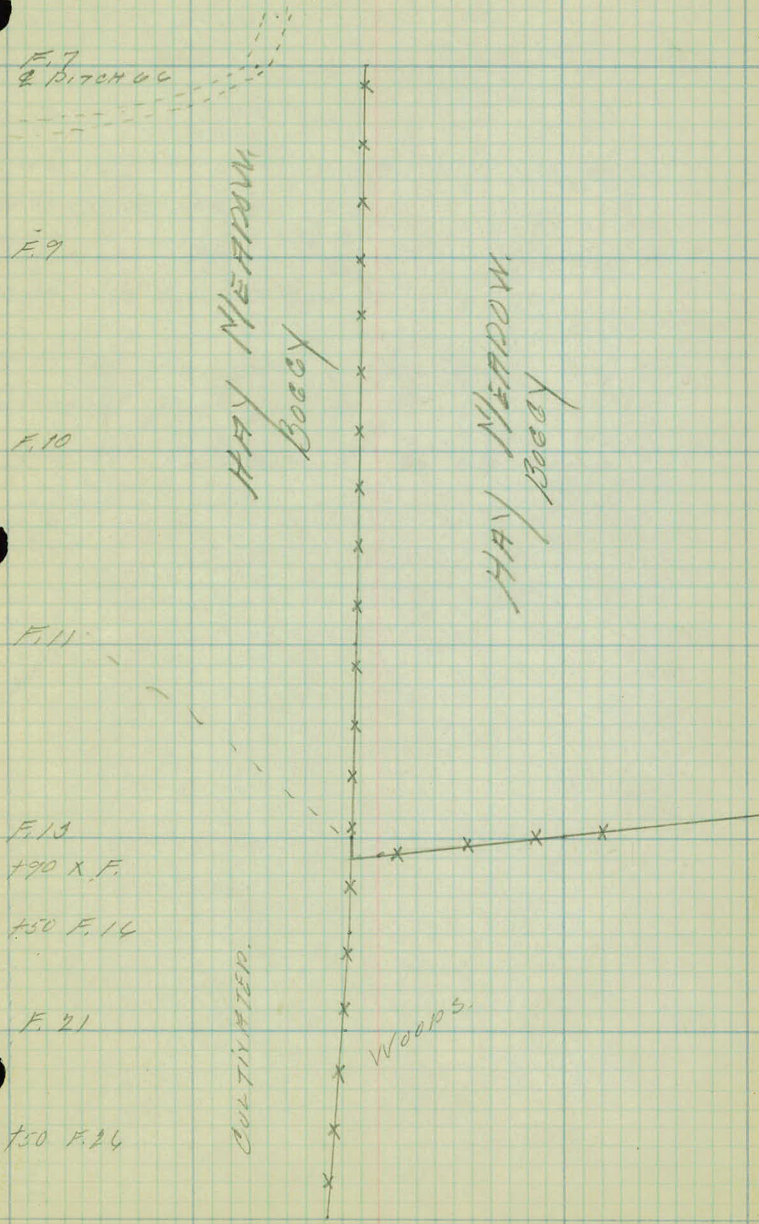
19

18

17

14

11-22-28



F.7
℄ DITCH 66
F.9
HAY MEADOW
BOGGY
HAY MEADOW
BOGGY
F.10
F.11
F.13
+90 X.F.
+50 F.14
F.21
+50 F.26
CULTIVATED.
WOODS.

28

27

26

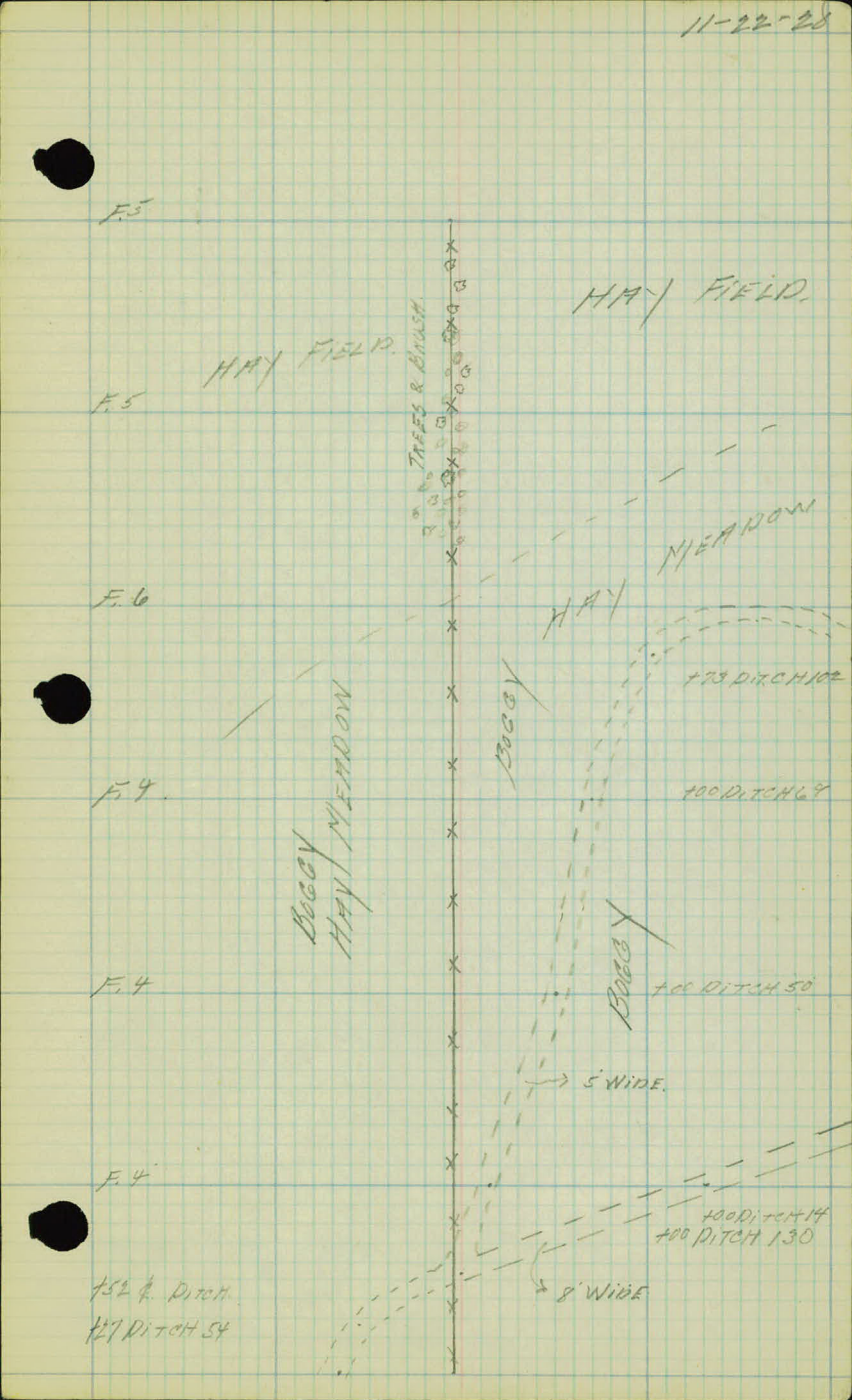
25

24

23

22

11-22-28


F.3
HAY FIELD.
HAY FIELD.
TREES & BRUSH.
F.5
MEADOW
F.6
HAY
+23 DITCH 102
BOGGY
F.7.
+00 DITCH 69
BOGGY
HAY MEADOW
F.4
+00 DITCH 50
BOGGY
5' WIDE.
F.4
+00 DITCH 14
+00 DITCH 130
8' WIDE
+52 R. DITCH
+27 DITCH 54

34

33

32

31

30

29

28

F.8 F.7 F.6 F.5 F.4 F.3

HAY FIELD.

BRUSH & TREES

HAY FIELD

11-22-28

40

39

38

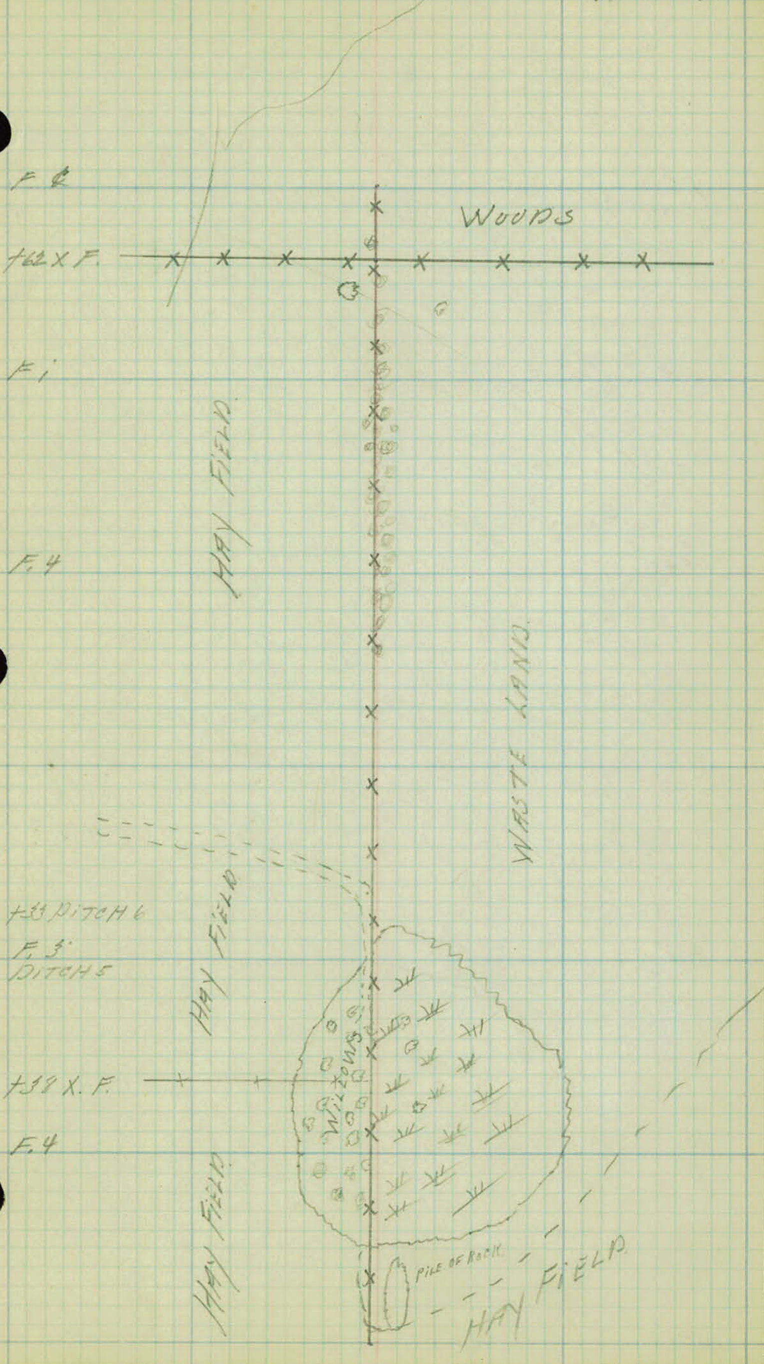
37

36

35

34

11-22-38



WOODS
+62 X F.
F. 1
HAY FIELD
F. 4
WASTE LAND
+33 DITCH 6
F. 3
DITCH 5
HAY FIELD
WILLOWS
+38 X. F.
F. 4
HAY FIELD
PILE OF ROCK
HAY FIELD

46

45

44

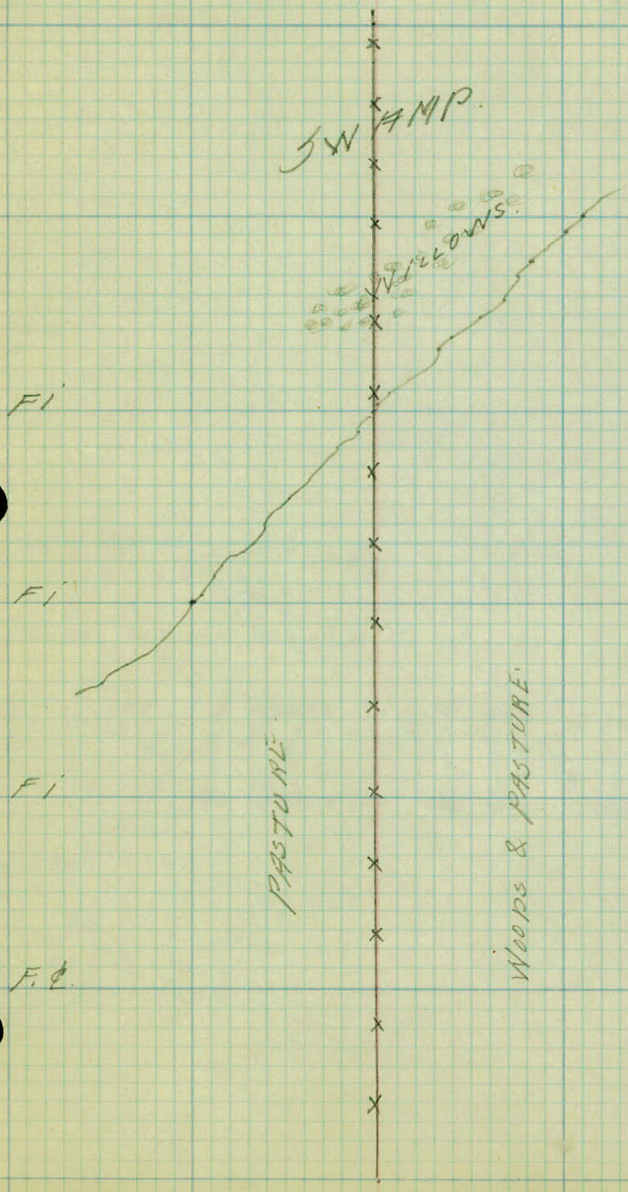
43

42

41

40

11-22-28



52

51

50

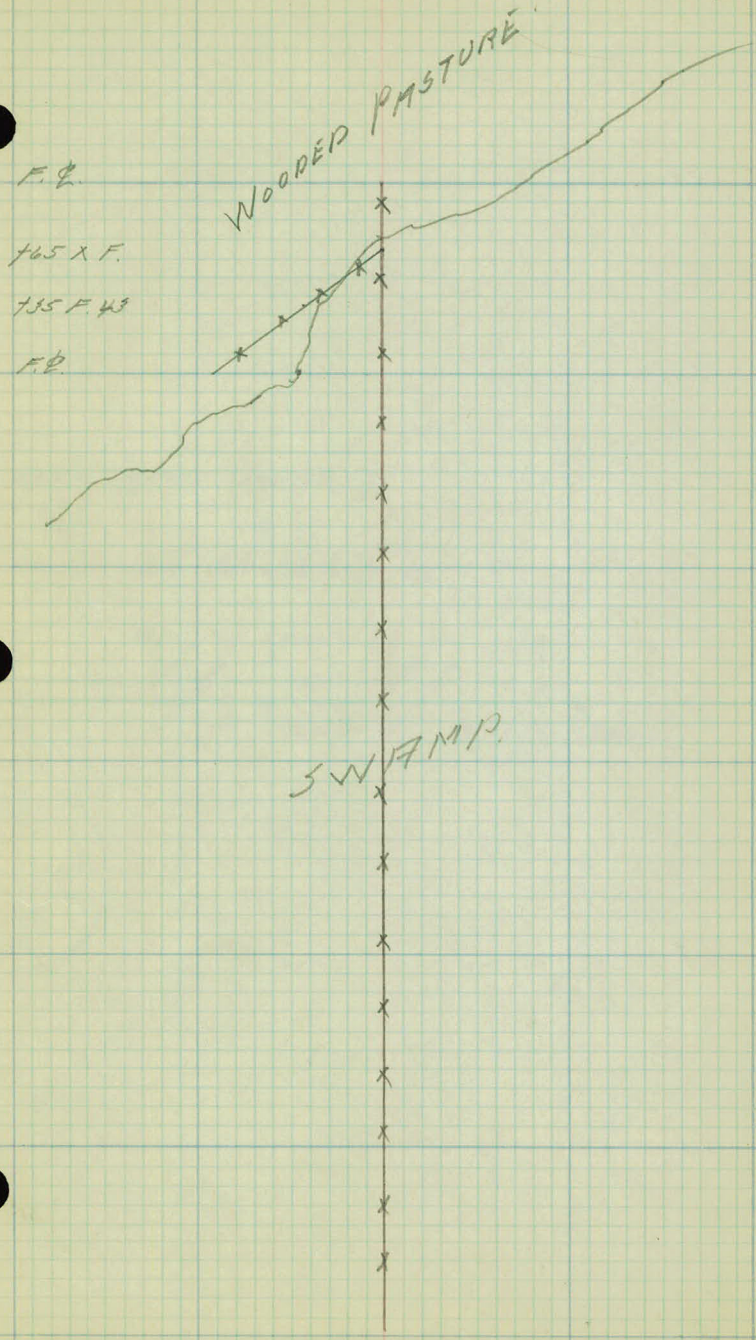
49

48

47

46

11-22-28



58

57

56

55

54

53

52

11-22-38

F. 5

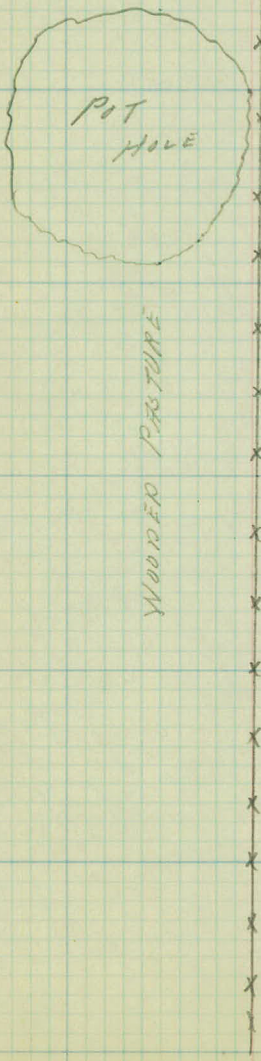
F. 4

F. 2

F. 1.5

F. 1.5

F. 0



64

63

62

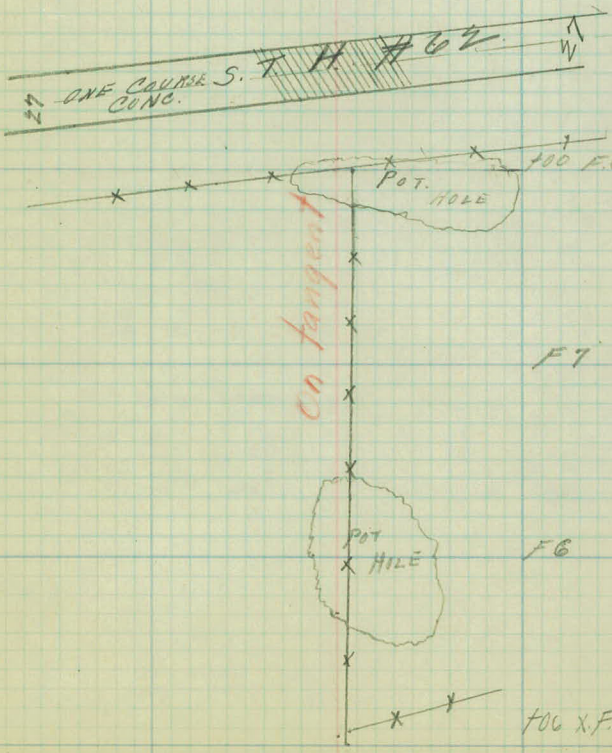
61

60

59

58

11-22-28



PROJ # 29-17

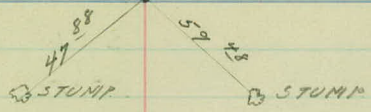
"B" LINE

ALIGNMENT FROM STH. 39 & 87

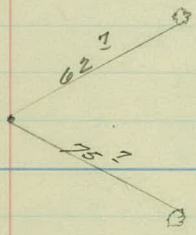
TO S.T.H. # 62.

STA.	POINT	Δ LT.	Δ RT.	
52+69.86	P.T. ✓		22°-27'	
52			21°-13'	
51			19°-28'	
50			17°-43'	
49			15°-58'	
48			14°-13'	
47			12°-28'	
46+63.51	P.I. ✓			Δ-44°-54'
46			10°-43'	D-3°-30' R.
45			8°-58'	T-676.51 ✓
44			7°-13'	L-1282.86 ✓
43			5°-28'	R-1637.28 ✓
42			3°-43'	
41			1°-58'	
40			0°-13'	
39+87.0	P.C. ✓		0°-00'	
39+61.95	P.I.		1°-06'	

12-5-28



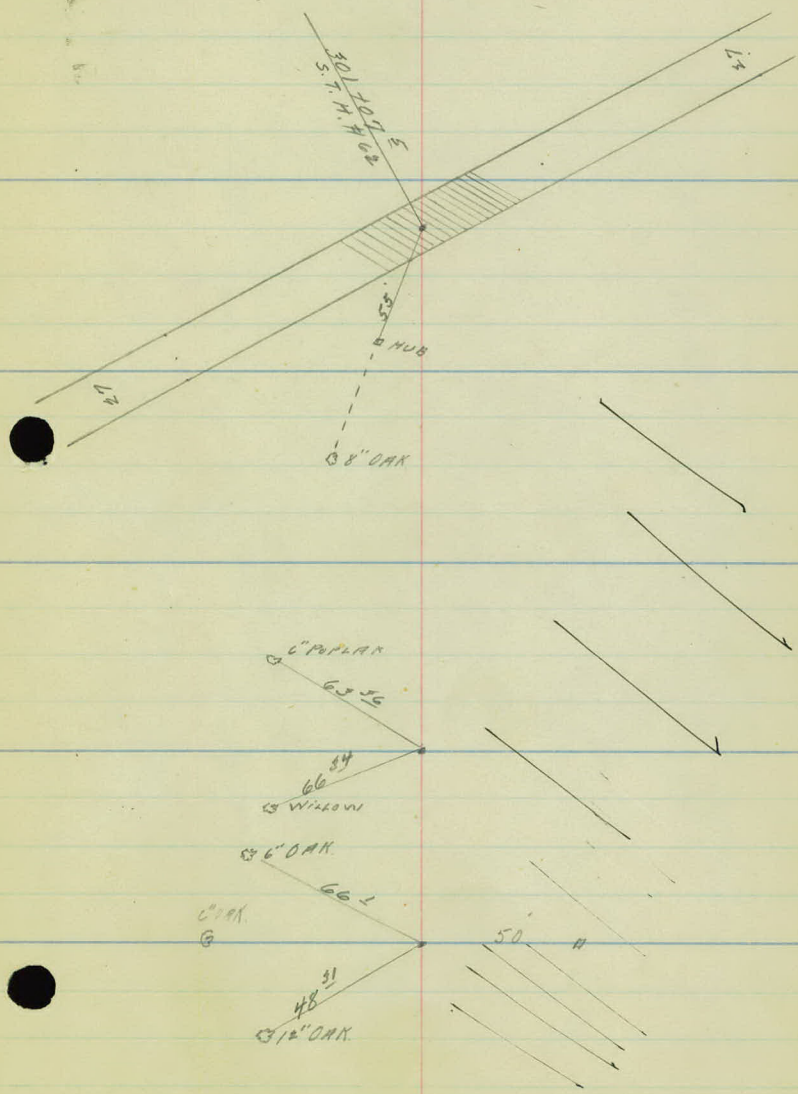
□ 2'x4' HUB



□ STONE MONT.

STA	POINT	Δ LT.	Δ RT.	
68+06.88	P.T. ✓	31° 30'		
68		31° 01'		
+50		27° 31'		
67		24° 01'		
+50		20° 31'		
66+08.5	P.I. ✓			Δ - 63° 00'
66		17° 01'		R - 14° R ✓
+50		13° 31'		T - 251.42 ✓
65		10° 01'		L - 450.00 ✓
+50		6° 31'		R - 410.28 ✓
64		3° 01'		
63+56.68	P.C. ✓	0° 00'		
61+47.75	P.O.T.			
56+89.48	P.O.T.			

100.00
56.88
43.12
43.50



PROD # 29-17

"B" LINE

ART TOPOG FROM STA 39+87

TO S.T.H. # 62

43

42

41

40

39

38

11-30-28

F.32

F.14

F.4

49

48

47

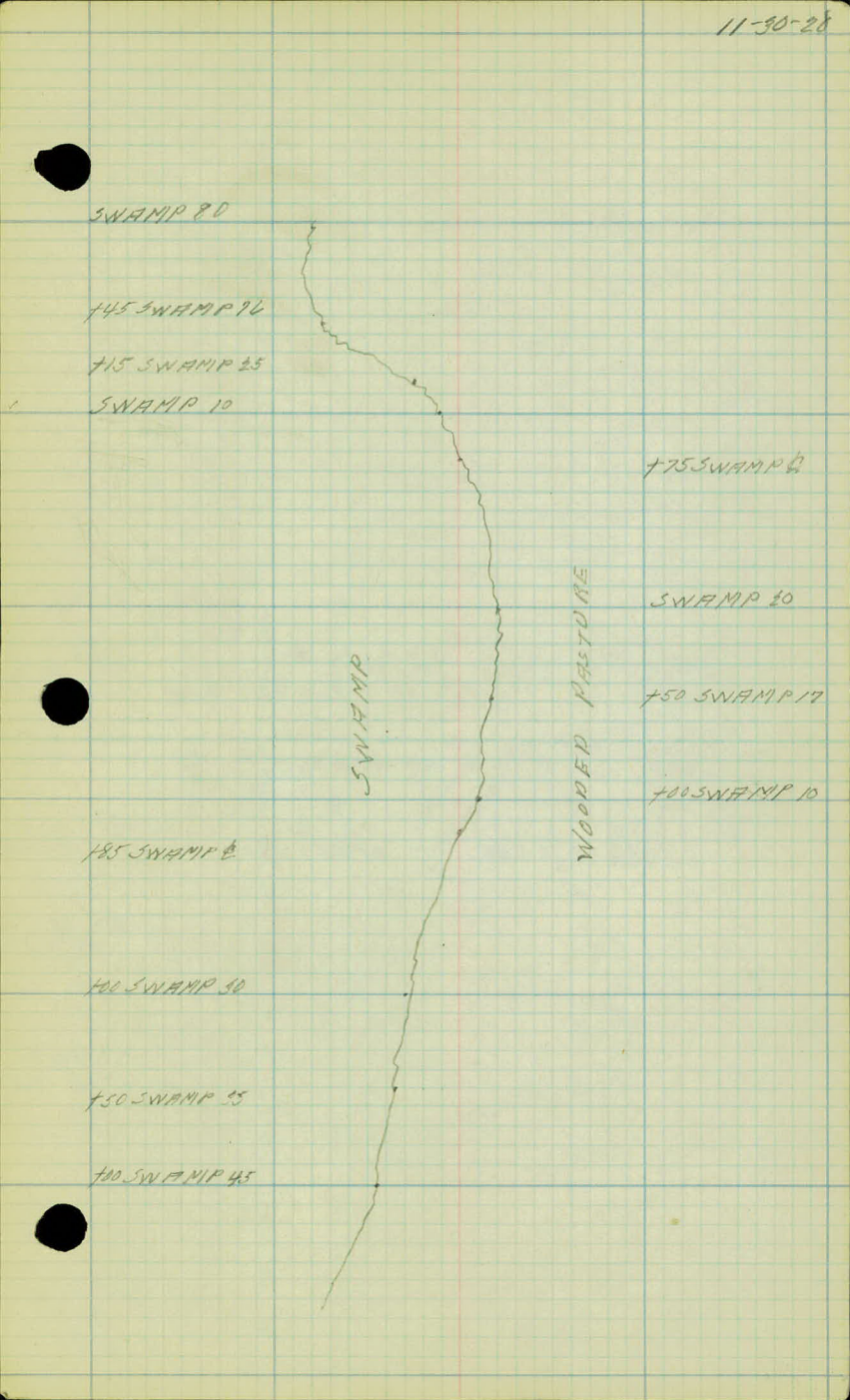
46

45

44

43

11-30-28


SWAMP 80
+45 SWAMP 96
+15 SWAMP 25
SWAMP 10
+75 SWAMP 60
SWAMP 20
+50 SWAMP 17
+00 SWAMP 10
SWAMP
WOODED PASTURE
+85 SWAMP 6
+00 SWAMP 30
+50 SWAMP 25
+00 SWAMP 45

55

54

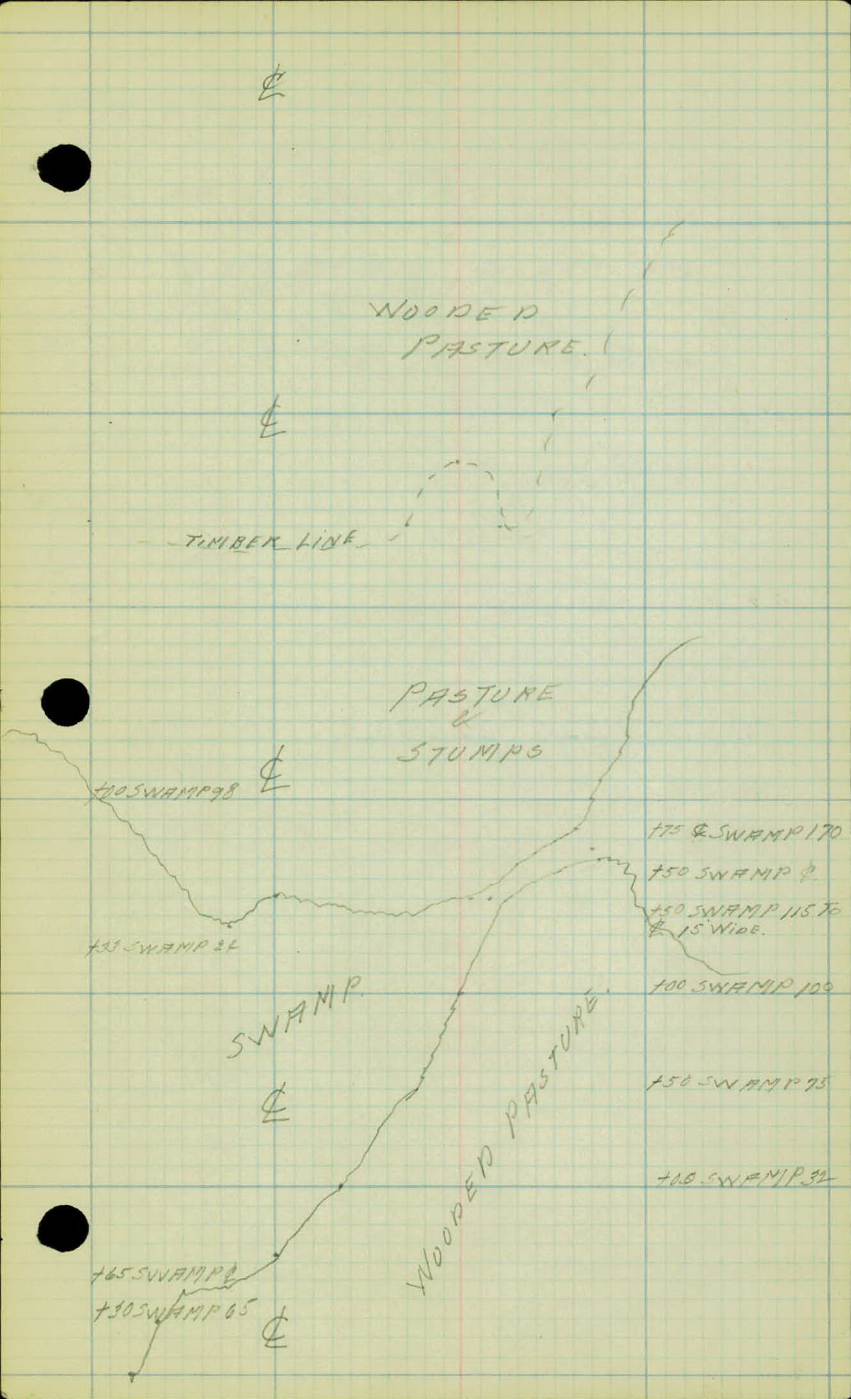
53

52

51

50

49


℄
WOODED
PASTURE.
℄
TIMBER LINE
PASTURE
&
STUMPS
℄
+20 SWAMP 98
+75 ℄ SWAMP 170
+50 SWAMP ℄
+50 SWAMP 115 To
℄ 15 Wide.
+23 SWAMP 24
+00 SWAMP 100
SWAMP.
+50 SWAMP 75
WOODED PASTURE
+18 SWAMP 32
+65 SWAMP 8
+30 SWAMP 65
℄

61

60

59

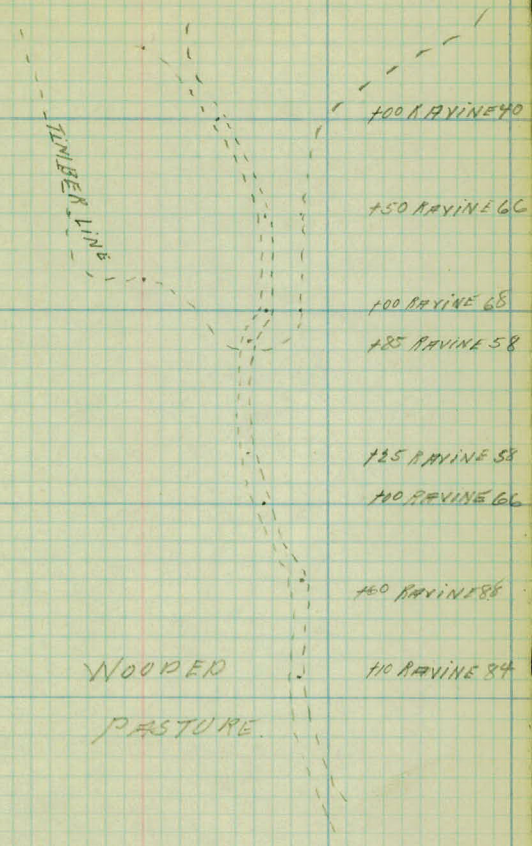
58

57

56

55

11-30-28


TIMBER LINE
+100 RAVINE 70
+50 RAVINE 66
+100 RAVINE 68
+125 RAVINE 58
+125 RAVINE 58
+110 RAVINE 66
+60 RAVINE 88
+110 RAVINE 84
WOODED
PASTURE.

68

67

64 30" x 60' L.T

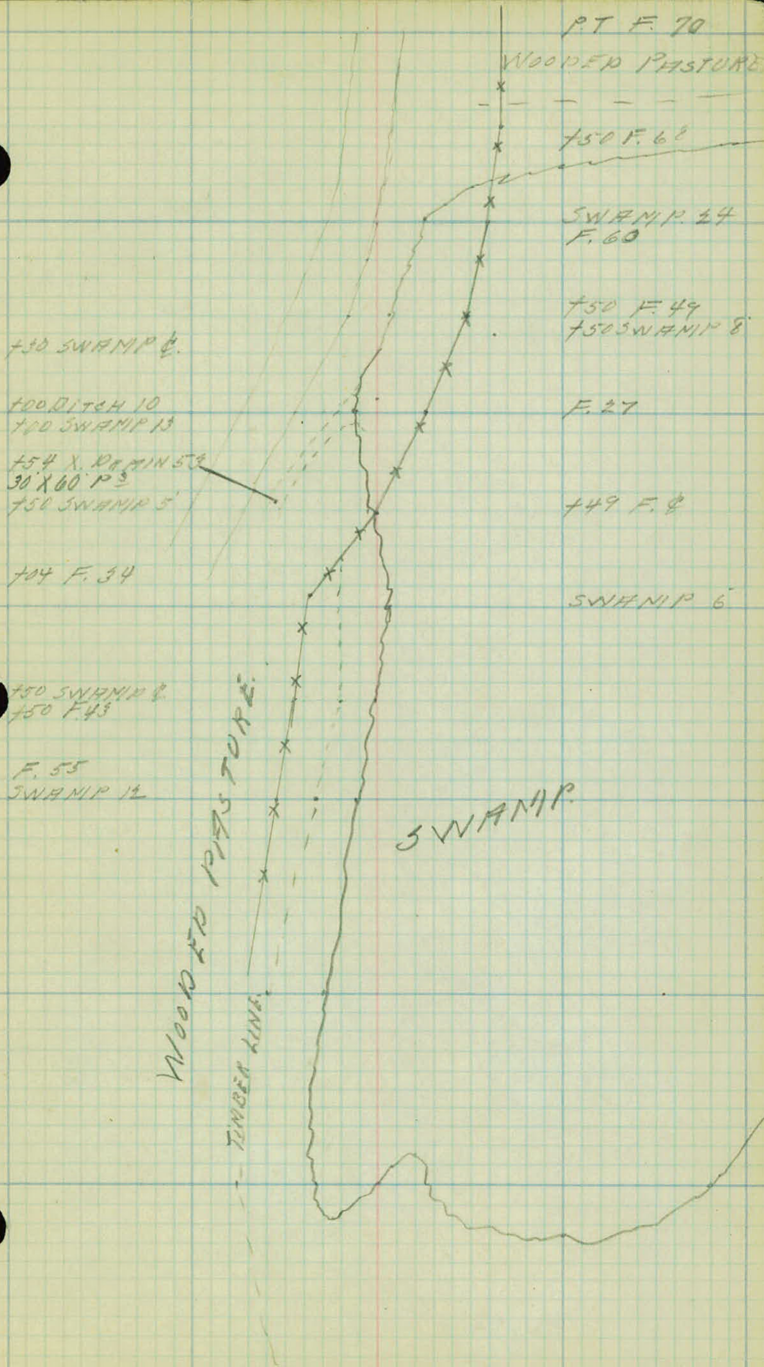
65

64

63

62

61


P.T. F. 70
WOODED PASTURE
+50 F. 6℄
SWAMP 24
F. 60
+50 F. 49
+50 SWAMP 8
+30 SWAMP ℄
+00 DITCH 10
+00 SWAMP 13
F. 27
+54 X. DRAIN 53
30'X60' P 3
+50 SWAMP 5'
+49 F. ℄
+04 F. 34
SWAMP 6
+50 SWAMP ℄
+50 F. 43
F. 55
SWAMP 12
WOODED PASTURE
SWAMP
TIMBER LINE

PROJ # 28-17

CENTER LINE LEVELS & CROSS SECTIONS

FROM S.T.H. # 63 TO S.T.H. # 62.

B.M.	4.09	889.20 ✓		885.11 ✓	Elev
0+00					884.40
+13.5					884.20
+25					882.90
+40					882.00
+83					882.60
	2.93	885.33 ✓	6.80	882.40 ✓	
1+00					882.93
+50					882.63
2+00					879.03
+50					880.93
3+00					879.93
+50					879.63
4+00					879.33
+50					879.33

11-29-28.

TOP OF CONC. WALK 30 FT. STH. OF 783

7.17 7.21 6.27 5.47 — 4.50 4.15 4.26 4.52
200 150 100 50 4.80 50 100 150 200

5.60 — 4.56
50 5.00 50

7.4 5.4 5.4 5.8 — 4.80
50 41 32 14 5.3 50

TOP OF WALK

14.8 14.7 13.5 7.0 6.4 — 6.0 5.2 4.2
50 46 43 23 50 6.2 12 28 38
15

TOP OF WALK.

18.4 16.1 7.6 7.2 — 6.5 5.4 4.1 4.1
50 34 19 16 6.6 10 30 30 38

13.3 12.1 10.3 3.7 3.0 — 2.7 2.6 2.3 1.3 1.3
50 35 29 17 15 2.4 11 23 33 44 50

12.8 11.2 9.7 8.7 5.7 2.6 2.0 — 3.5 3.0 2.5 2.5
50 34 31 24 17 10 8 4.7 10 17 23 36 BARN.

12.0 9.7 8.8 4.7 3.1 3.7 — 4.1 3.8 3.4 2.5 2.4
50 34 27 14 10 6 3.3 4 15 18 27 50

7.8 8.4 4.6 4.3 — 4.7 4.5 5.2 4.6 4.9
50 31 8 5 4.4 5 13 18 36 50

2.7 7.5 5.2 4.8 — 5.2 8.4 9.6 9.6
50 23 14 5 5.4 7 20 30 50

13.5 13.2 11.2 6.4 5.5 — 5.9 13.4 14.6 14.6 12.1 11.1
50 40 32 13 5 5.7 7 28 27 41 38 50

14.3 13.9 14.3 13.6 6.9 5.6 6.5 — 5.6 9.9 11.5 11.7 11.0
50 38 34 27 13 7 5 6.0 6 17 27 33 50

14.0 13.3 12.0 6.8 5.9 — 5.7 6.3 9.8 10.4 9.7
50 39 25 13 9 6.0 7 11 22 34 50

STA	+	H.I.	−	ELEV
		885.33		
5				879.33
+50				879.13
	9.93	890.11 ✓	5.15	880.18 ✓
6				879.41
+35				880.11
+66				879.41
7				876.81
+50				878.41
8				878.01
+50				877.41
	4.85	881.45 ✓	13.51	876.60 ✓
9				876.45
+50				874.95
10				874.05
+50				873.15

11.2 10.2 6.3 — 6.1 7.6 8.1 9.0 9.0 9.0
50 25 12 6.0 6 21 27 28 40 50

5.6 5.2 4.9 5.6 6.4 6.6 — 6.1 7.1 7.1 5.9 6.0 5.7
50 39 36 21 14 10 6.2 9 10 14 15 22 50

✓ 60/50
5.3 4.6 5.1 9.8 11.0 — 11.0 10.2 10.7 10.5 — 10.7 11.2 7.1 7.1
3.7 3.7 3.8 2.7 2.1 1.4 1.1 .7 .5 ✓10.7 10 16 23 50

4.3 3.7 3.6 8.9 10.8 — 9.7 9.8 8.3 4.6 3.8
50 42 41 30 2 ✓10.0 8 23 24 30 50

5.1 4.2 10.3 — 10.7 7.7 7.7 5.2
50 37 22 ✓10.7 10 40 50 100

7.5 6.4 12.0 11.0 — 10.4 8.7 5.2 5.3
50 30 25 20 ✓11.3 15 22 26 50

8.6 7.8 8.0 12.1 11.9 11.0 11.6 — 11.7 10.6 9.2 5.6 5.3
50 40 36 33 23 18 3 11.7 6 14 17 24 50

10.1 9.1 12.0 11.7 12.0 — 11.6 9.6 5.0 4.0 4.0
50 37 33 15 9 12.1 6 17 24 29 50

14.3 13.7 11.0 12.3 13.0 — 12.6 10.8 8.2
50 49 32 29 12 12.7 6 13 50

8.1 5.2 5.3 — 5.1 3.8 2.9
50 17 6 5.0 2 7 50

9.6 7.8 8.5 6.5 — 6.4 6.2 6.3 5.6
50 23 17 9 6.5 3 17 33 50

10.3 10.3 9.3 7.7 — 7.8 8.8 8.7 8.4
50 33 16 10 7.4 11 21 35 50

10.8 10.5 10.7 10.7 10.5 7.7 — 8.6 8.8 9.6 9.6 9.6
50 33 17 15 14 6 8.3 3 12 17 33 50

		881.45		Elev.
11				871.95
12				871.75
	+43			
13				872.45
	2.93	877.30 ✓	7.06	874.37 ✓ 874.37
+18				872.60
+50				873.20
14				877.90
	12.27	887.51 ✓	2.08	875.24 ✓
+50				877.11
15				882.21
+50				885.11
16				885.51
	1.32	885.17 ✓	3.64	883.85 ✓
+50				882.97
17				880.17
B.M.			6.80	878.37 ✓ 878.37
+40				877.57

11-23-28

10.8 10.8 11.2 11.5 11.5 10.3 9.9 10.4 10.4 10.4
50 33 12 17 14 9 7.5 12 13 18 50

10.0 10.0 11.2 11.2 10.0 10.2 10.4
50 20 19 16 9 7.7 15 50

10.5 10.5 10.3 10.3 9.5 9.5 9.2 9.0
50 33 21 18 17 13 9.0 17 50

TOP OF MONT. 50' RT. STA. 13+18.

4.8 4.8 4.8 3.8 2.9
50 33 22 4.7 ✓ 33 50

5.8 5.7 5.1 4.1 3.9
50 33 18 4.1 33 50

4.2 4.6 3.8 3.2 2.2 2.0
50 33 23 11 ✓ 4.4 33 50

13.2 11.5 9.8 10.0
50 33 ✓ 10.4 33 50

7.8 5.1 5.4 6.2 6.4
50 33 31 ✓ 5.3 33 50

4.2 2.3 2.7 3.7 4.0
50 33 30 2.4 33 50

4.4 3.1 2.0 2.4
50 33 ✓ 2.0 33 50

2.7 3.1 4.5 0.7 0.7
50 33 23 2.2 33 50

5.2 5.0 4.3 5.4 5.4 6.0
50 33 22 17 5.0 33 50

SPK. IN 18" OAK. 70' RT. STA. 17+25

8.2 8.7 7.8 8.5 8.9
50 33 20 7.6 33 50

		885.17 ✓		Elev.	
+60				874.57	
	2.85	875.62 ✓	1.240	872.77 ✓	
18				872.02	
+50				869.97	
19				869.17	
20				868.72	
21				868.97	
22				868.62	
+45				7.6	68.0
+47				9.3	66.3
+50	℄ Pitch.			864.67	
+71				8.5	67.1
+74				7.3	68.3
23				868.72	6.9
	11.91	881.46 ✓	6.07	869.55 ✓	
24				868.86	
25				868.56	
26				873.16	

11-24-38

100 99 98 107 103
50 33 33 ✓10.6 33 50

2.5 2.6 3.0 ✓ 3.8 4.0
50 33 22 3.6 33 50

5.9 5.7 5.5 5.5
50 33 ✓5.7 33 50

6.6 6.6 6.1 6.1
50 33 ✓6.5 33 50

6.9 7.0 6.5 6.4
50 33 ✓6.9 33 50

6.8 6.7 6.4 6.4
50 33 6.7 33 50

7.0 7.0 7.0 7.0
50 33 ✓7.0 33 50

675
8.1 860.8 TOP OF WATER 11-24-38.
98 99 11.1 98 7.9 10.2 9.7 10.0
200 150 100 50 11.0 50 100 150 200

7.0 7.0 7.0 8.2 8.2 6.7 6.7 6.7
50 33 6.9 9 11 16 18 33 50

12.7 12.6 13.0 13.8 13.8 13.0
50 33 12.6 47 49 54 56

11.4 11.9 12.5 13.1 13.1
50 33 27 12.9 33 50

5.7 6.2 9.4 10.6 11.0
50 33 8.3 15 33 50

		881.46 ✓		Elev.
7+30				876.26
	13.08	895.34 ✓	1.20	880.26 ✓
26+30				
26+75				890.29
27+00				
	13.08	905.63 ✓	0.79	892.55 ✓
26+75				
27+00				894.13
27+20				897.93
27+50				
	13.73	918.41 ✓	0.95	904.68 ✓
27+50				908.31
27+80				
	13.21	931.14 ✓	0.78	917.93 ✓
27+80				918.84
28+00				925.14
28+15				927.74

11-24-28

(5.2) 6.9/15 8.2/33 9.0/50

TOP OF STRIKE

11.4/50 11.4/43 10.4/37 12.9/25 15.6/13 (17.0)

(3.1) 5.8/8 8.5/25 10.6/33 12.3/50

(+0.8) 0.6/7 3.7/33 6.5/50

7.3/75 10.5/60 11.3/50 11.7/46 11.2/37 12.8/25 13.3/16 14.6/5 (15.4)

1.7/80 4.3/68 6.5/50 7.7/33 7.8/27 9.1/19 10.1/11 11.5

(7.7 9.0/6 11.4/33 13.8/50) ?

0.0/85 1.0/80 2.2/63 3.5/50 4.6/29 5.3/21 6.0/15 6.6/8 7.6/4

1.0/22 2.4/33 4.4/50 7.8/77 12.0/100

(+2.7)

4.2/100 5.9/90 6.2/80 7.0/60 8.1/50 8.9/46 8.7/33 8.6/25 9.2/21 9.2/10 10.2/7 10.1 12.2/9

+0.40 1.5/9 5.8/33 9.3/50 14.4/77 18.2/100

13.0/100 11.8/70 11.3/50 11.2/43 10.8/33 10.6/24 11.6/9 10.8/8 11.8/5 12.3

11.9/100 10.0/70 8.7/50 6.5/33 6.3/19 6.2/11 5.9/8 6.0 7.6/7 11.8/33 14.3/50 19.8/80

10.8/100 8.7/70 7.4/50 6.3/33 5.3/24 5.3/19 4.6/9 3.8/8 4.2/6 3.4 4.6/4 4.7/15 7.1/33 9.4/50 14.3/80

				Elev.	
		931.14 ✓			
+50				928.24	
	8.17	937.21 ✓	2.10	929.14 ✓	X
29				931.41	
	5.61	937.21	5.61	931.60 ✓	931.61
+50				932.21	
30				931.31	
+50				929.81	
31				926.21	
+50					
	3.06	927.86 ✓	1241	924.80 ✓	
31					
+50				922.56	
32				921.66	
+50				919.26	
33				915.26	
	3.92	918.79 ✓	12.99	914.87 ✓	
+50				912.99	

11-26-28

9.5/100 7.8/90 6.3/50 5.4/33 4.7/24 5.1/19 4.8/10 4.0/9 2.8 2.9/2 3.0/6 2.6/18 1.2/41 1.0/50 1.3/67 5.0/100

14.1/100

13.6/85 12.6/70 11.2/50 10.3/34 9.0/24 8.1/21 8.1/10 7.1/9 7.1/7 5.3/2 ✓ 5.8 5.9/4 5.2/29 5.7/44 5.3/60 4.7/66 4.8/90 5.5/100

SPK IN 6" OAK 6 LT. STA. 29+30

13.4/100 11.9/75 10.6/50 9.9/33 8.9/27 9.0/22 7.6/12 7.0/11 6.6/7 5.0/1 ✓ 5.0 5.0/5 4.7/10 4.8/16 4.0/33 3.2/50 2.9/67 3.3/80 4.0/100

12.5/100 10.8/75 9.9/50 7.9/33 10.0/22 9.1/9 ✓ 5.9 5.6/7 5.0/11 5.1/14 4.0/31 3.5/50 2.8/71 3.1/100

15.4/100 14.9/84 12.0/50 11.3/33 10.5/27 10.7/21 9.5/10 8.8/9 ✓ 7.4 7.5/7 7.0/12 7.4/17 6.5/29 6.0/50 5.8/100

11.0 10.4/9 9.8/13 10.1/16 8.3/33 7.5/50 6.9/90 6.4/100

14.7 13.6/21 11.8/35 9.0/55 7.5/72 6.2/100

8.0/75 6.8/50 4.6/25 4.4/19 3.6/11 2.9/10 1.8/4 1.7

8.8/75 9.5/50 7.9/30 7.2/25 7.4/20 6.4/8 5.4/2 5.3 5.1/8

7.7/75 8.2/60 8.0/50 7.7/26 7.4/24 7.1/18 7.1/10 6.5/8 7.0/7 6.1/2 6.2 6.4/3 6.6/9 6.3/12 6.8/15 6.0/45 5.7/50 5.1/62 1.7/100

8.0/75 8.6/50 9.2/27 8.8/24 9.3/18 9.5/10 8.7/7 8.6 9.0/1 8.8/3 9.3/6 9.0/11 9.4/16 9.0/30 9.5/47 9.8/65 9.4/75

11.4/75 10.3/50 11.4/23 12.1/17 12.7/9 12.0/7 12.5/4 12.6 12.6/2 13.0/3 12.8/12 13.3/16 13.1/39 12.8/50 12.5/75

3.4/75 2.4/56 4.5/33 5.0/24 6.4/13 6.2/8 6.3 6.4/3 6.9/5 7.4/10 7.3/30 7.5/50

				Elev.
		918.79		
34				908.89
	5.45	914.68	7.56	907.23
	+50			904.18
35				903.48
	+40			902.78
	+65			902.18
36				903.98
	+50			903.98
37				906.68
	+50			912.98
	11.95	925.29	1.34	913.34
38				917.79
	+50			918.39
39				916.79
	+50			913.59
	0.66	914.97	12.98	912.31

11-26-28

50/85

4.1/39 6.3/50 9.0/48 9.0/23 9.9/17 9.6/11 9.8/8 10.6/6 10.6/3 9.9 | 9.9/1 10.2/5 10.6/10 10.5/14 11.2/24 10.5/50

3.4/75 7.4/50 8.8/34 9.3/21 10.3/11 ✓ 10.5 | 10.5/16 9.8/50 9.4/62 8.5/82

5.4/75 9.0/50 10.0/38 9.9/35 10.6/33 11.0/27 10.7/20 11.1/15 11.4/12 11.2/5 11.2 | 11.3/12 11.2/36 11.0/50 10.9/60

9.8/60 10.3/50 10.4/41 11.3/33 11.4/18 ✓ 11.4 | 11.9/16 11.9/28 11.5/48 11.3/60

9.9/60 10.2/50 10.7/36 11.0/30 11.8/15 ✓ 11.5 | 11.9/16 11.5/35 11.1/50 10.9/60

9.5/60 9.3/50 9.6/41 9.2/37 9.7/35 10.2/19 10.9/11 ✓ 10.7 | 11.0/9 10.6/32 10.8/50 10.6/60

10.2/60 10.6/50 10.2/41 10.9/17 ✓ 10.7 | 10.1/24 9.8/44 8.4/65

7.6/60 7.2/50 7.2/35 7.8/20 7.6/9 7.3/6 8.0 | 7.8/26 7.6/50 7.7/65

4.2/70 2.2/58 1.3/50 0.9/34 1.3/15 2.0/7 0.8/5 ✓ 1.7 | 2.3/12 3.6/38 3.7/50 4.1/65

11.8/70 11.8/62 10.1/50 9.4/27 7.4/6 7.5 | 7.0/7 6.9/19 8.1/50 8.8/65

10.6/70 10.7/62 9.4/55 9.1/50 8.5/31 7.1/5 6.9 | 5.9/17 2.8/45 2.1/65

12.4/70 12.2/63 10.3/52 9.8/42 8.8/10 8.0/3 8.5 | 8.1/11 7.6/33 6.7/48 3.6/75

15.8/50 14.6/33 12.9/14 11.8/7 11.7 | 11.2/26 10.8/50 10.8/60

				Elev.	
		912.97			
40				905.97	
	4.44	912.90	4.44	908.53	908.46
+50				903.70	
41				903.30	
+50				904.60	
42				906.30	
	5.97	913.21 ✓	5.66	907.24 ✓	
+60				908.71	
43				908.11	
+56				907.61	
	6.39	911.10 ✓	8.50	904.71 ✓	
44				901.70	
+50				901.00	
45				901.20	
	9.05	910.16 ✓	9.99	901.11 ✓	
46				900.86 899.96	
47				900.86 899.96	

11-26-28

9.3	8.6	8.0		5.8	5.2
50	29	17	7.0	22	50

SPK IN 14" OAK 60' RT. 37H 40+10.

11.7	10.9	10.3		8.6	8.4
50	35	19	9.2	30	50

9.1	9.5			9.7	9.2
50	27		9.6	25	50

6.0	7.3			8.7	8.7
50	23	8.3		33	50

4.5	5.4			6.8	7.1
50	27	4.6		33	50

5.7	5.2	4.8		3.6	3.0
50	28	16	4.5	34	50

5.0	6.1			3.6	2.7
50	26		5.1	33	50

11.4	8.8			3.3	2.5
50	21		5.5	33	50

10.1	9.8			5.7	4.7
50	33		9.4	33	50

10.2	9.9			9.4	7.7
50	33		10.1	33	50

10.4	10.3			9.6	8.3
50	33		9.9	33	50

→ TOP OF WATER

		9.3		10.2	
	10.2				
	50		10.2	50	

		9.3			
	10.2			10.2	
	50		10.2	50	

				Elev
		910.16		
48				900.86 899.96
49				900.86 899.96
50				900.86 899.96
51				901.16
	10.13	914.11 ✓	6.18	903.98 ✓
+65				901.51
X				
52				903.71
B.M.	1.54	914.04 ✓	1.54	912.57 ✓ 912.50 ✓
+50				912.84
	4.35	917.78 ✓	0.61	913.43 ✓
+70				913.18
53				911.48
+40				911.38
+83				914.48
54				913.78
+55				908.48
	0.65	905.78 ✓	12.65	905.13 ✓

11-26-28

TOP OF WATER

10.2/50 9.3 10.2/50

TOP OF WATER

10.3/50 9.3 10.3/50

10.2/50 9.3 10.2/50

8.4/50 8.8/33 9.0 9.2/50

2.2/60 4.3/50 9.7/30 12.6 13.0/33 13.3/50

5.0/50 5.4/33 6.4/23 9.4/7 10.4 12.4/33 12.8/50

SRK IN 24" OAK 100 LT. STA 51+90.

5.6/50 3.6/33 2.3/24 3.2/18 7.1/35 10.0/50

9.7/50 6.9/24 4.6 2.6/28 3.8/41 6.2/50

10.0/50 8.3/24 6.3 4.7/17 1.9/50

7.4/50 7.4/33 6.8/20 6.4 5.5/14 3.7/33 2.2/50

5.5/50 4.7/33 4.4/20 3.3 2.4/29 2.0/50

7.2/50 6.2/33 5.1/12 4.5 3.7/15 2.8/33 2.4/50

11.8/50 11.6/33 10.3/16 7.3 9.5/18 7.6/33 10.3/50

				Elev.	
		905.78			
55				899.38	
B.M.	4.33	905.77	4.33	901.45	901.44
+30				896.47	
	1.03	897.22 ✓	9.52	896.25 ✓	
56				893.68	
+35				889.08	
57				889.08	
	2.58	892.08 ✓	7.78	889.50 ✓	
+50				889.08	
58				887.18	
+50				883.38	
59				881.18	
*	3.24	886.23 ✓	9.14	883.94 ✓	
+50				881.93	
60				881.43	
+50				880.83	
61				878.03	
	14.25	892.09 ✓	6.39	879.84 ✓	

11-26-88

10.8	8.8	7.6		5.8	6.3	5.2
50	33	18	6.4	19	33	50

SPK. IN 18" OAK 80 LT. STA. 54+25

14.3	12.8	11.2		8.5	7.8	6.8
50	33	21	9.3	22	33	50

8.0	7.3	5.5	✓	4.8	0.5	0.0
50	33	16	3.6	6	26	50

TOP OF WATER

9.4	8.7	8.5	✓	7.1	6.3	5.2	2.3
50	20	18	8.2	3	12	33	50

TOP OF WATER

9.5	8.7		7.8	7.3	7.1	6.6
50	14	8.2	4	18	33	50

2.8	2.6	1.8		3.4	3.9	4.3
50	33	20	3.0	17	33	50

0.0	2.0	3.4		5.6	6.8	6.4
50	33	17	4.8	12	33	50

1.6	4.4	7.7		9.4	9.8	9.5
50	33	13	8.7	18	33	50

8.7	8.0	9.8		10.9	10.6	9.6
50	28	14	10.9	12	33	50

10.6	1.9	3.0		4.4	2.7	0.8
50	33	16	4.3	11	33	50

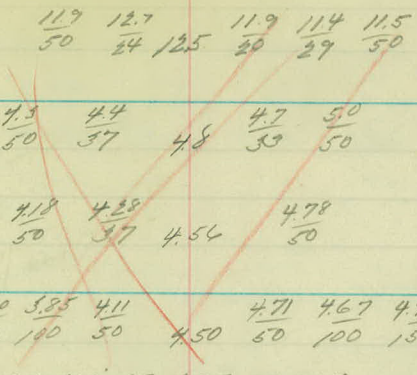
2.6	3.8	5.0		4.7	3.8	2.6
50	33	10	4.8	8	33	50

5.1	5.0	5.2		5.7	6.0	5.6
50	33	14	5.4	12	33	50

6.8	7.4	8.2		7.1	7.1	7.1
50	20	33	8.2	14	33	50

		Elev
	872.09	
+10		879.39
+32		887.29
+38.2		887.53
+51.2		887.59
B.M.	12.41	879.68 879.64

11-26-28



SPK IN C" POPLAR 300' NT STA 62+25.

Project #29-17
Soundings.

Sta.

45+00

46+00

47+00

Note:-
All soundings taken with a. 3/4" sounding device.

48+00

All clay tests taken with the weight of two men.

49+00

50+00

50+70

12-18-28

All soundings taken on ℄

Depth of Sounding From	To	Kind of Soil.
0 ft.	4ft.	Muck.
4'	6'	Sandy Clay.
6'	10'+	Clay.
0'	7'	Muck.
7'	9'	Black Dirt.
9'	11'	Muck.
11'	17'+	Clay.
0'	8'	Muck.
8'	12'	Black Dirt.
12'	14'	Sand and Water.
14'	14'+	Clay.
0'	8'	Muck.
8'	10'	Sandy Clay.
10'	10'+	Clay.
0'	9'	Muck.
9'	14'	Sandy Clay.
14'	14'+	Clay.
0'	4'	Muck and Peat.
4'	10'	Black Dirt and Sand.
10'	16'	Sand.
16'	16'+	Clay.
0'	2'	Muck.
2'	5'+	Sand.

Sta.

18+50

19+00

21+00

24+00

25+00

12-17-28

All Soundings Taken on ℄

Depth of Sounding From	To	Kind of Soil.
0 ft.	8 ft.	Muck.
8'	13'+	Clay.
0'	10'	Muck.
10'	21'+	Soft Clay.
0'	15'	Muck.
15'	21'	Soft Clay.
21'	21'+	Sandy Clay.
0'	12'	Muck.
12'	17'	Sandy Clay.
17'	17'+	Clay. ✓

0 8 Muck
✓

Proj # 29-17

DRAINAGE NOTES.

B.M.	0.26	885.37		885.11
	1.01	881.28	5.10	880.27

12-6-28.

OUTLET.

14.4 / 90 — 13.6 / 50 — 11.90 — 11.56 — 9.9 / 50 — 9.2 / 100

FROM END OF COLV.

PROJ # 29-17

CHECK LEVELS FROM S.T.H. # 62

TO S.T.H. # 63 -

B.M.	12.72	892.38 ✓		879.66 ✓
	12.76	901.75 ✓	3.37	888.99 ✓
B.M.	13.24	914.68 ✓	0.31	901.44 ✓
B.M.			2.18	912.50 ✓
	1.81	905.74 ✓	10.75	903.93 ✓
B.M.	9.85	912.84 ✓	2.75	902.99 ✓
	10.98	916.32 ✓	7.50	905.34 ✓
B.M.			7.86	908.46 ✓
	6.46	921.34 ✓	1.44	914.88 ✓
	12.03	932.52 ✓	0.85	920.49 ✓
B.M.			0.91	931.61 ✓
	0.99	920.74 ✓	12.77	919.75 ✓
	1.47	909.18 ✓	13.03	907.71 ✓
	1.03	896.86 ✓	13.35	895.83 ✓
	1.30	885.36 ✓	12.80	884.06 ✓
	12.63	884.49 ✓	13.50	871.86 ✓
B.M.			6.12	878.37 ✓
	3.06	877.79 ✓	7.76	874.73 ✓
B.M.			3.42	874.37 ✓
	10.64	884.92 ✓	3.53	874.26 ✓
	8.12	887.44 ✓	3.60	881.32 ✓
B.M.			4.33	885.11 ✓
	11.03	895.07 ✓	5.40	884.04 ✓
B.M.			2.20	892.87 892.44

12-5-28

SPK IN 6" POPLAR 300' RT. STA. 62+25

SPK IN 18" OAK 80' LT. STA. 54+75.

SPK IN 24" OAK 100' LT. STA. 51+90.

SPK IN 10" POPLAR 50' RT. STA. 45+25.

SPK IN 18" OAK 60' RT. STA. 40+10.

SPK IN 8" OAK 6' LT. STA. 29+30.

SPK IN 18" OAK 70' RT. STA. 17+25.

TOP OF MONT. 50' RT. STA. 13+18

TOP OF CONC. WALK 30' RT. STA. 0+83.

N.W. COR. LOWER STEP 30' LT. STA. 151+00. S.T.H. #63.

PROV # 28-17

CHECK LEVELS.

B.M.	12.55	892.21		879.66	
	12.54	904.44	0.31	891.90	
B.M.			2.97	901.47	
	12.54	916.71	0.27	904.17	
B.M.			4.17	912.54	
	5.00	908.97	12.74	903.97	
B.M.	9.29	912.31	5.95	903.02	
	5.17	916.78	0.70	911.61	
B.M.			8.27	908.51	
	8.71	923.63	1.86	914.92	
	10.90	933.92	0.61	923.02	
			2.32	931.60	
	0.33	921.15	13.10	920.82	
	0.53	908.86	12.82	908.33	
	1.12	896.74	13.02	895.84	
	0.67	884.37	13.24	883.70	
	11.41	882.60	13.18	871.19	
			4.17	878.43	
	5.02	887.41	0.21	882.39	
	8.18	882.61	12.98	874.43	
	8.62	888.51	2.72	879.89	
B.M.			3.41	885.10	
	11.02	895.07	4.46	884.05	
B.M.	2.22	895.07	2.22	892.85	892.44
	4.52	888.57	11.02	884.05	
			3.46	885.11	885.10

SPK IN 6" POPLAR 300' RT STA. 62+25.

SPK IN 18" OAK 80 LT STA. 54+75

SPK IN 24" OAK 100 LT STA 51+90.
ON ROCK.

SPK IN 10" POPLAR 50' RT STA 45+25

SPK IN 18" OAK 60 RT STA. 42+10

SPK IN 8" OAK 6' LT STA 29+30

SPK IN 12" OAK 70 RT STA. 17+25.

TOP OF MONT. 50' RT STA. 13+18.

TOP OF CONC. WALK 30' RT. STA. 0+83

N.W. COR LOWER STEP 30 LT STA 15+00 S.T.H. # 63.

PROJ # 29-17

"B" LINE

CENTER LINE LEVELS AND

CROSS SECTIONS FROM STA. 39+87

TO S.T.H. #62.

B.M.	0.38	908.84 ✓		908.46 ✓	
40 +50				903.54	
41				903.34	
+50				904.34	
	5.50	912.72 ✓	1.62	907.22 ✓	
42				906.72	
+50				909.52	
43				909.32	
+65				910.32	
	1.93	911.43 ✓	3.22	909.50 ✓	
44				908.72	
+50				905.53	
45				902.93	
B.M.	4.89	907.88 ✓	8.44	902.99 ✓	902.99
+50				902.58	
46				901.28	
+50				901.48	

11-30-38

SPR. IN 18" OAK 60 FT. STA. 40+10.

7.3	6.7	6.5	5.2		4.5	4.2	4.3	
50	33	27	5	5.3	22	33	50	
5.0	5.3	5.6			5.6	5.2	4.9	
50	33	5	5.5		20	33	50	
1.4	2.9	4.2			4.7	4.9	5.3	
50	33	10	4.5		19	33	50	
5.4	5.7	6.0	6.3		6.9	7.5	7.9	
50	33	18	15	6.5	20	36	50	
4.4	4.4	4.0	✓		3.8	4.1	4.4	
50	28	23	4.2		20	33	50	
5.6	4.8	3.8	✓		2.3	1.9	1.4	
50	33	17	3.4		25	33	50	
9.8	7.3	4.7			1.3	0.6	0.2	+1.0
50	33	17	2.4		21	26	33	50
9.9	8.4	6.0	3.9	✓	0.0	+2.0	+3.2	
50	33	16	6	2.7	22	33	50	
10.0	9.7	7.7	✓		3.0	1.7	+0.4	
50	33	16	5.9		21	33	50	
10.0	9.9	9.8			5.8	4.6	3.5	
50	33	20	7.5		17	33	50	
6.8	6.5	6.1			4.1	2.8	1.6	
50	33	7	5.3		17	33	50	
6.9	6.7				6.1	5.3	3.3	1.4
50	33	6.6			9	16	33	50
7.0	6.8				5.9	5.2	3.5	2.1	+0.1
50	33	6.4			17	21	33	40	50

				Elev	
		907.88			
47				901.58	
+50				901.68	
48				902.78	
	7.23	911.48 ✓	+.23	903.65 ✓	
+58				909.28	
B.M.	0.12	911.44 ✓	0.12	911.36 ✓	911.32
+80				909.34	
49				908.04	
+50				902.74	
50				900.94	
51				900.74 900.74	
+55				902.04	
+83				904.64	
	904	911.07 ✓	3.43	908.01 ✓	
52				909.37	
+17				912.37	

12-5-28

6.8	6.6			6.1	5.0	3.7	1.8	0.4
50	33		6.3	22	25	36	43	50
6.8	6.7			5.1	3.1	0.0		
50	33		6.2	21	33	50		
6.6	6.4	6.3		3.8	0.3	T1.0		
50	33	11	5.1	14	33	50		
7.4	5.8	4.1	✓	1.9	1.5	1.4		
50	33	20	2.2	17	33	50		
SPK IN 8" OAK 50' RT STA 48+60								
5.7	4.0	3.0	✓	2.1	2.2	2.4		
50	33	19	2.1	21	33	50		
6.8	4.6	4.0		3.3	3.5	3.7		
50	33	18	3.4	22	33	50		
10.0	10.0	9.6		8.1	7.3	6.2		
50	33	18	8.7	18	33	50		
10.8	10.7	✓		10.5	10.3			
50	33	10.5		33	50			
			TOP OF ICE					
11.3		10.7 ✓			11.3			
50		11.2			50			
9.8	9.7			9.0	8.3			
50	33	9.4		33	50			
8.1	7.5	7.3		6.1	6.1			
50	33	19	6.8	33	50			
10.9	9.7	9.6		7.4	8.0			
50	35	15	7.7	30	50			
6.9	5.6	5.3		4.4	4.8	5.6		
50	33	24	4.7	24	33	50		

				Elev	
		917.07			
+53				911.87	
53				907.97	
+50				909.37	
54				911.77	
+50				912.57	
55				912.67	
+50				912.37	
56				913.27	
	1.46	915.63 ✓	2.90	914.17 ✓	
+45				911.63	
57				910.93	
B.M.	5.97	915.170 ✓	5.97	909.66 ✓	909.73 ✓
+50				905.10	
	1.65	907.61 ✓	9.74	905.96 ✓	
57+50					
58				901.71	

12-5-28

7.5/50 6.7/33 6.3/23 ✓ 6.2 4.8/29 4.9/33 5.5/50

11.1/50 9.6/21 ✓ 9.1 9.8/29 10.2/50

7.7/50 6.9/33 7.4/19 ✓ 7.7 8.6/19 9.1/33 9.9/50

4.0/50 3.8/33 4.1/26 ✓ 5.3 7.3/25 7.7/33 8.7/50

3.3/50 3.1/33 3.2/24 4.5 5.9/22 6.4/33 6.7/50

4.9/50 4.2/33 4.4 5.1/18 5.8/33 5.9/50

6.7/50 5.5/33 4.7 5.3/33 5.9/50

5.2/50 4.9/25 3.8 5.1/33 6.0/50

0.7/50 1.9/33 4.0 5.4/29 5.8/33 7.5/43 9.7/50

1.7/50 3.1/33 4.7 7.7/23 7.6/33 12.1/50

SPK IN 10" OAK 45' LT STA. 5+750
5.9/50 7.0/33 7.8/21 10.6

7.1 5.3/14 6.7/27 7.2/33 7.7/50

1.8/50 2.9/23 4.5/17 5.9 8.0/27 9.2/50

				Elev.
		907.61		
+50				900.01
59				895.31
	2.06	898.56 ✓	11.11	896.50 ✓
+50				895.66
60				889.66
	2.97	889.28 ✓	12.25	886.31 ✓
+50				885.78
61				882.08
+48				881.18
	4.97	886.38 ✓	7.87	881.41 ✓
62				879.08
+50				878.18
63				875.58
+57				878.48
64				878.98
+50				879.58

12-5-28

5.1/50 6.4/33 7.0/24 7.6 8.8/33 10.1/50

6.3/50 7.5/33 9.2/22 9.3 10.7/25 11.9/33 13.1/50

5.6/50 6.1/33 5.4/17 ✓ 3.9 3.6/20 4.0/33 5.6/50

11.1/50 11.2/33 10.8/23 8.9 7.2/33 7.4/50

5.1/50 5.3/33 4.9/24 5.5 1.9/26 1.6/33 1.4/50

8.7/50 8.7/33 7.2 5.7/22 5.3/32 6.6/35 6.6/34 5.0/43 5.1/50

9.8/50 9.5/33 8.9/14 8.1 8.6/30 8.9/50

5.6/50 6.8/33 ✓ 7.3 7.8/33 8.1/50

5.8/50 6.9/33 ✓ 8.2 8.3/33 8.3/50

5.3/50 6.9/33 ✓ 7.9 8.2/33 8.3/50

4.2/50 4.6/42 6.0/35 6.2/31 ✓ 7.9 8.4/33 8.4/50

2.7/50 4.1/37 5.3/24 ✓ 7.4 8.3/33 8.4/50

0.0/50 1.4/43 5.0/33 4.0/25 5.3/12 6.0/10 6.8 7.6/12 8.0/33 8.2/50

			Elev.
	886.38		
65			879.88
+50			878.98
66			877.98
+50			880.18
+80			882.38
67			882.48
+50			882.67
68			882.82
+08			
+50			3.53
69			3.50
	Cross Road in		
B.M.		3.15	883.23/883.21

12-5-28

4.05 0.6 3.2 5.5 7.3 8.0 8.2
50 45 33 7 6.5 9 33 50

4.2 5.6 8.2 8.0
50 33 7.4 33 50

EDGE OF PAVEMENT

3.84 3.92 4.1 6.1 6.3 8.0 7.6 7.8
50 44 37 30 19 15 8.4 33 56

EDGE OF PAVE.

4.3 4.31 4.15 4.14 4.1 6.1 6.2 7.2 7.3 7.8 7.9
50 48 35 17.5 12 3 6.2 5 9 12 33 50

EDGE OF PAVE.

4.3 4.18 4.02 4.05 6.1 7.6 7.6 7.6
48 39 23 7 4.0 10 23 33 50

EDGE OF PAVE.

4.2 4.12 3.98 3.95 3.8 6.5 7.4 7.7 7.4
41 33 21 0.5 3.9 8 23 28 33 50

EDGE OF PAVE.

9.0 8.1 3.8 3.91 3.76 3.7 6.0 7.0
50 41 28 21 3.71 12 20 32 50

8.1 7.1 6.5 3.6 3.71 3.67 3.6 6.7 7.0 3.5 3.3
50 33 29 19 13.5 3.56 13.5 19 31 43 50 55

7.4 6.3 3.6 3.68 3.66 3.6 6.7 6.8 3.3 3.0
50 31 19 13.5 3.56 13.5 20 30 44 50 55

OUTLET 10.0 7.40 INLET

76.38 76.98

SPK. IN 10" OAK 60 RT. STA. 67+90

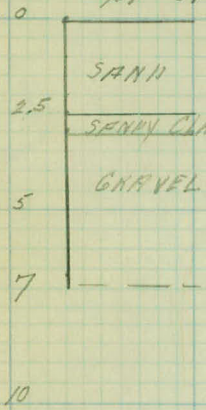
B.M.	7.20	912.19 ✓		902.99
B.M.			9.82	911.32 ✓
	7.13	917.19 ✓	4.13	908.06 ✓
	3.85	909.82 ✓	11.22	905.97 ✓
B.M.			6.09	909.73 ✓
	0.79	877.29 ✓	13.32	876.50 ✓
	1.78	886.30 ✓	12.97	884.32 ✓
B.M.			3.09	883.21 ✓
	6.76	889.42 ✓	3.64	882.66 ✓
	6.06	892.00 ✓	3.48	885.94 ✓
B.M.			12.30	879.70 ✓

1ST PROJ. # 29-17

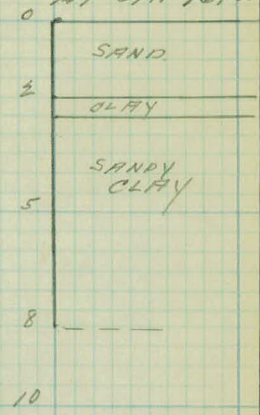
SOUNDINGS

MATERIAL IN CUTS.

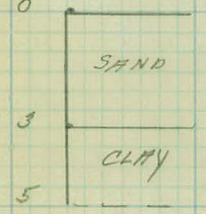
SOUNDING ON ℄ AT STA 15700.



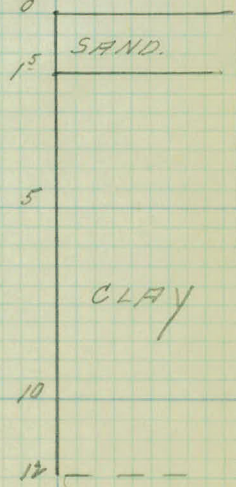
SOUNDING ON ℄ AT STA 16+00



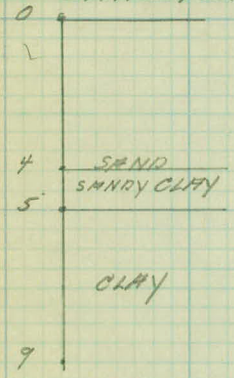
SOUNDING ON ℄ AT STA. 17+00



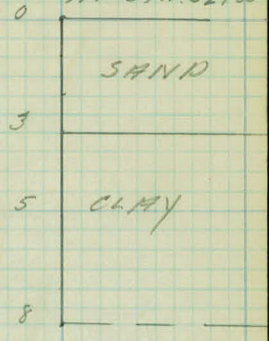
SOUNDING ON ℄ STA 23+00



SOUNDING ON ℄
STA. 30+00.

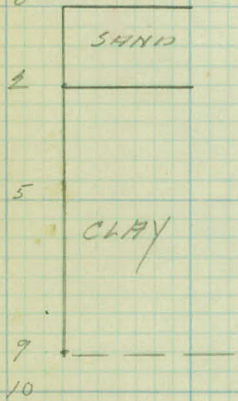


SOUNDING ON ℄
AT STA. 32+00

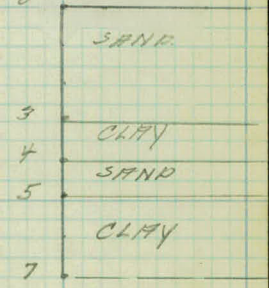


STA. 38

SOUNDING ON ℄
STA. 38+00

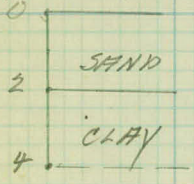


SOUNDING ON ℄
AT STA. 39+00

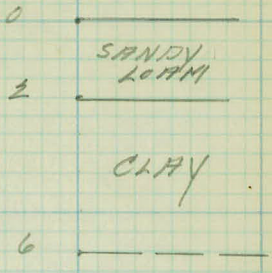


43

SOUNDING ON ℄
AT STA. 43+00.



SOUNDING ON ℄
AT STA. 53+00.



PROJ # 29-17

X SECTIONS FOR LINE CHANGE

FROM STA. 17+00 TO STA. 44+00.

	H.I.		
B.M.	8.84	287.21 ✓	878.37
17+00			
17+50			
	4.35	279.15 ✓	12.41 878.80 ✓
18+00			
19+00			
20+00			
21+00			
22+00			
	12.95	283.46 ✓	8.64 870.51 ✓
23+00			
23+50			

17+00

72.1	73.2	74.3	74.7	79.0	80.9	81.8	81.1	80.5	80.7	79.9	80.2
300	180	176	167	147	134	100	77	50	33	19	

17+50

72.6	73.8	76.3	77.3	77.4	77.0	76.4	76.9	76.5	76.4	76.5	76.1
300	178	161	151	126	100	83	67	56	33	19	

18+00

71.6	71.9	72.2	73.0	75.6	74.2	73.3	72.8	72.7	72.8	73.1	73.4	72.1
300	273	248	200	164	146	125	92	69	41	33	13	

19+00

71.9	71.8	71.8	74.4	74.0	73.2	70.3	69.5	69.2	69.2	69.2
300	276	244	200	175	155	122	100	73	35	

20+00

69.6	71.0	70.8	71.5	71.1	72.0	72.3	71.6	69.2	68.5	68.7	68.8	68.8
400	382	365	348	300	256	200	191	150	100	67	22	

21+00

69.8	69.6	70.1	71.4	71.0	71.5	70.1	69.8	68.8	68.6	68.6	68.9
400	390	370	300	268	232	207	200	150	100	50	

22+00

68.5	69.0	69.9	70.7	70.8	70.5	69.6	69.2	68.4	68.3	68.8	68.7
500	450	400	350	326	300	250	200	144	100	25	

23+00

69.0	69.0	69.3	71.3	71.9	71.8	71.6	71.4	70.6	69.2	68.8	69.0	68.4
600	547	500	446	400	340	300	243	200	134	100	27	

23+50

69.5	69.8	71.0	72.1	72.3	72.7	73.5	73.3	72.7	70.5	69.2	68.8	68.7
600	548	500	448	400	360	300	238	200	132	100	40	

			A RT	
54+17 (El)	R.T.		17°-41⁵	✓
5 ✓			17°-25⁵	✓
+50			16°-40⁵	✓
53		X	15-55⁵	✓
+50			15°-10⁵	✓ ✓
52			14°-25⁵	✓ ✓
+50			13°-40⁵	✓ ✓
51			12°-55⁵	✓ ✓
+50			12°-10⁵	✓ ✓
50			11°-25⁵	✓
+50			10°-40⁵	✓
49			9°-55⁵	✓
+50			9°-10⁵	✓
48		X	8°-25⁵	✓ ✓
+50			7°-40⁵	✓ ✓
47			6°-55⁵	✓ ✓
+50		X	6°-10⁵	✓ ✓
46			5°-25⁵	✓ ✓
+50			4°-40⁵	✓
45			3°-55⁵	✓
+50			3°-10⁵	✓
44			2°-25⁵	V
+50			1°-40⁵	✓
43			0°-55⁵	✓
+50			0°-10⁵	
42+48 (37)	P.C		0°00	

1-28-29

12.9 14.0 15.1
176 180 200
12.5 8.2 6.3 5.4 6.1 6.7 6.5 7.3
167 147 134 100 77 50 23 19 7.0
10.7 13.4 14.6
161 174 200
9.9 9.8 10.2 10.8 10.3 10.7 10.8 10.7
151 126 100 83 67 56 33 19 11.1
7.3 7.6
273 300
7.0 6.2 3.6 5.0 5.9 6.4 6.5 6.7 6.1 6.7
248 200 174 142 125 92 69 41 23 13 7.1

4.8 7.4 7.4 7.3
200 244 276 300
5.2 6.0 8.7 9.7 10.2 10.0
175 153 122 100 73 25 10.0

8.4 8.2 8.6
365 382 400
7.7 8.1 7.2 6.9 7.4 10.0 10.4 10.5 10.4
348 300 256 200 171 150 100 67 22 10.4

7.8 8.1 7.6 7.4
300 330 390 400
8.2 7.7 9.1 9.4 10.4 10.6 10.6
248 232 207 200 150 100 50 10.3

9.3 10.3 10.7
400 450 500
8.5 8.4 9.2 8.7 9.6 10.0 10.3 10.7 10.4
350 324 316 300 250 200 144 100 35 10.5

14.2 14.5 14.5
500 547 600
12.2 11.6 11.7 11.9 12.1 12.9 14.5 14.7 14.5
446 400 340 300 243 200 154 100 27 15.1

11.4 12.5 13.7 14.0
448 500 548 600
11.2 10.8 10.0 10.2 10.8 13.0 14.3 14.7
400 360 300 238 200 132 100 40 14.8

883.46

24 + 00

24 + 50

25 + 00

25 + 50

26 + 00

26 + 50

13.15 875.22 1.39 882.07

13.26 906.90 1.58 873.64

27 + 00

27 + 50

13.37 919.81 0.46 906.44

12.20 931.33 0.68 919.13

24+00

70.9	71.5	71.6	73.4	74.2	78.9	81.7	81.4	80.1	76.0	72.8	70.5	69.2	68.9
700	600	552	500	451	400	350	300	250	200	146	100	46	0

+50

72.7	72.5	74.3	75.2	77.5	83.5	86.6	88.8	89.2	89.0	86.2	82.7	80.4	74.4	71.4	69.7	69.0
700	655	600	546	500	453	436	400	344	300	242	215	200	144	100	50	0

25+00

79.9	77.4	76.2	76.8	76.9	80.7	93.7	95.5	95.2	95.1	94.9	93.9	88.9	81.1	76.7	72.9	70.5	68.5
800	758	700	650	600	560	500	473	400	356	300	242	200	165	142	100	50	0

+50

86.2	81.1	78.3	77.2	80.3	82.5	87.5	98.2	99.7	97.1	97.6	96.2	96.7	902.9	901.2	97.8	91.5	85.0	75.4	73.1	69.9
800	750	700	650	600	582	560	519	500	453	400	354	300	258	223	200	174	146	100	61	0

26+00

90.2	84.5	81.3	80.5	84.0	90.6	95.3	99.2	97.9	97.5	94.6	94.6	99.8	904.7	907.6	904.9	99.9	95.5	86.0	81.9	76.7	73.0
800	756	700	652	600	566	551	583	500	450	400	347	300	270	236	200	175	150	100	83	50	0

+50

94.3	91.8	89.1	86.0	84.5	86.3	89.3	90.3	93.5	94.2	95.3	96.7	97.4	954.9	911.30	907.6	905.2	900.3	89.9	83.2
800	780	761	745	700	661	631	600	553	500	454	400	348	300	251	200	174	100	45	0

27+00

99.5	98.2	93.2	97.6	96.5	93.8	94.8	95.6	95.6	02.9	10.0	14.7	12.9	12.4	14.0	09.7	01.9	99.1	94.5
800	742	700	645	600	545	500	450	400	340	300	255	217	200	142	100	65	40	0

+50

03.6	00.4	01.8	02.5	05.0	03.6	02.6	00.9	02.8	05.1	09.5	14.4	15.3	15.9	18.7	19.1	15.6	11.3	08.3
800	759	700	649	600	538	500	448	400	363	333	300	242	200	160	131	100	54	0

PROJ # 29-17.

BOGGY

HAY MEADOW

BOGGY

SWAMP

HAY FIELD

CORN FIELD

HAY FIELD

SCATTERED OAKS

SWAMP

HAY FIELD

CORN FIELD

POT HOLE

HAY FIELD

POT HOLE

BOGGY

CORN FIELD

HAY FIELD

HAY MEADOW

PLANK BRIDGE

HAY MEADOW

CULTIVATED

TOPOGRAPHY

1-28-27

12.6 12.0 11.9 10.1 7.3 4.6 1.7 2.1 3.4 7.5 10.7 13.0 14.3
700 600 552 500 451 400 350 300 250 200 146 100 46 14.6

ABOVE HI

10.8 11.0 9.2 8.3 6.0 0.0 +3.1 +5.3 +5.7 +5.5 +2.7 0.8 3.1 9.1 12.1 13.8
700 655 600 544 500 458 446 400 344 300 242 215 200 144 100 50 14.5

3.6 6.1 7.3 6.7 6.6 2.8 +9.2 +12.0 +11.7 +11.6 +11.4 +10.4 +5.4 2.4 6.8 10.6 13.0
800 758 700 650 600 560 500 478 400 356 300 242 200 165 142 100 50 15.0

+2.7 2.4 5.2 6.2 3.2 1.0 +4.0 +14.7 +16.2 +13.6 +14.1 +12.7 +10.2 +19.4 +17.7 +14.3 +8.0
800 750 700 650 600 582 560 517 500 453 400 354 300 253 223 200 174
+1.5 7.9 10.4
148 100 61 13.6

+15.7 +14.4 +14.0 +11.1 +11.1 +10.3 +20.7 +24.0 +21.4 +16.4 +12.0 +3.5 1.6 6.8
533 500 450 400 347 300 270 236 200 175 150 100 83 50 10.5
+11.8 +7.1 +0.5 3.0 2.2 +1.0 +6.8
551 506 600 652 700 756 800

+10.0 +6.8 +5.8 +2.8 +1.0 +2.5 +5.6 +8.3 +10.8
553 600 631 661 700 745 768 780 800
+10.7 +11.8 +13.2 +13.7 +21.4 +27.8 +24.1 +21.7 +16.8 +6.4
500 454 400 348 300 251 200 144 100 45 0.3

10.4 13.1 12.1 11.3 11.4 4.0 +3.1 +7.8 +6.0 +5.5 +7.1 +2.8 5.0 7.9
600 545 500 450 400 340 300 255 217 200 142 100 65 40 12.4
9.3 14.1 13.6 7.4
645 700 742 800

6.0 4.3 3.3 1.7 4.4 5.1 6.5 3.3
448 500 538 600 649 700 759 800
4.1 1.8 +2.6 +7.5 +8.4 +7.0 +11.8 +12.2 +8.7 +5.0
400 363 333 300 242 200 160 141 100 56 +1.4

931.33

28+00

28+50

1.58 932.08✓ 0.83 930.50✓

18 Rt.

0.47 931.61✓ 931.61

29+00

29+50

30+00

30+50

6.27 927.55✓ 10.80 921.28✓

31+00

28+00 07.5/800 06.0/763 08.7/731 09.7/700 09.4/657 08.1/600 14.4/550 12.7/500 13.4/454 10.9/400 11.4/363 14.5/336 17.3/300 15.8/240 17.9/200 18.8/155 18.6/124 19.9/100 23.1/50 24.9/25 25.0/12 25.0/0

+50 07.7/800 08.6/770 16.7/700 19.3/667 12.5/600 11.4/593 12.9/564 20.2/526 21.5/500 21.6/450 18.4/400 19.0/348 19.0/300 18.1/259 20.5/200 19.8/149 21.8/100 24.6/57 26.1/23 28.3/0

29+00 05.1/850 03.6/800 07.1/768 14.2/729 19.1/700 21.7/682 21.4/656 13.9/600 13.9/576 14.9/549 20.9/524 23.8/500 22.5/447 21.6/423 21.2/400 20.2/367 19.3/334 18.2/300 18.9/249 21.6/200 20.6/158 20.2/137 23.6/100

26.0/50 28.2/20 31.4/0

+50 00.4/800 03.5/767 09.8/740 18.1/700 21.8/671 20.1/641 18.1/600 14.1/576 13.4/545 17.9/522 22.1/500 23.4/466 24.4/416 24.8/400 23.6/371 21.5/334 19.8/300 19.3/260 21.1/200 20.2/172 20.7/152 26.1/100 26.3/66 27.2/37 28.3/28 32.1/0

30+00 91.5/850 94.1/800 00.5/762 03.1/753 08.1/735 14.1/700 20.0/668 17.8/640 14.9/600 12.3/568 11.4/546 13.1/528 18.4/500 22.9/474 24.6/450 26.5/400 23.8/360 21.8/335 20.7/300 19.1/250 18.5/200 20.5/153 24.9/100 27.3/50

27.2/25 31.3/0

+50 89.1/850 89.6/800 91.8/756 03.1/713 06.1/700 12.6/668 16.6/641 16.9/618 15.4/600 10.9/558 13.1/526 18.5/500 21.8/470 24.7/429 24.5/400 20.9/337 18.5/300 17.3/239 17.8/200 19.3/148 22.1/100 24.5/62 26.1/34 29.8/0

31+00 87.9/800 88.9/756 92.1/724 98.9/700 8.8/668 12.5/640 12.7/600 09.6/567 09.8/545 11.7/523 17.2/500 20.7/471 19.2/428 20.0/400 23.0/345 21.6/300 18.9/242 18.8/200 19.4/150 19.6/100 21.1/50 23.3/23 26.2/0

1-27-29

186 169 23.2 21.9 21.6 22.6 25.3 29.8
500 550 600 657 700 731 763 800
179 204 19.9 168 140 15.5 13.4 12.5 12.7 11.4 8.2 6.4 6.3
754 700 563 384 300 240 200 156 124 100 50 25 12 6.3

7.7 12.9 12.3 12.3 13.2 10.8 11.5 7.5 6.7 5.2
450 400 348 300 259 200 149 100 57 29 3.0
7.8 11.1 18.4 12.9 18.8 12.0 14.6 22.7 23.6
500 526 524 579 600 667 700 770 800

17.2 11.2 8.3 7.6 10.5 10.9 11.9 12.8 13.9 13.2 10.5 11.5 11.2 8.5 6.1 3.9
544 524 500 447 423 400 367 334 300 249 200 158 137 100 50 20 0.7
18.2 13.9 10.7 10.4 13.0 17.9 25.0 28.5 27.0
576 600 656 682 700 727 768 800 850

14.2 18.7 18.0 14.0 12.0 10.3 14.0 22.3 28.6 31.7
542 545 576 600 641 671 700 740 767 800
10.0 8.7 7.7 7.3 8.5 11.6 12.3 12.8 11.0 11.8 11.4 6.0 5.8 4.7 3.8
600 466 416 400 371 334 300 260 200 172 158 100 66 37 38 0.0

19.8 20.7 19.0 13.7 9.2 7.5 5.7 8.3 10.3 11.4 13.0 13.6 11.6 7.2 4.8 4.9
568 546 528 500 474 450 400 360 335 300 250 200 153 100 50 25 0.8
17.2 14.3 12.1 18.0 24.0 27.0 31.6 38.0 40.6
600 640 668 700 735 753 762 800 850

10.3 7.4 7.6 11.2 13.6 14.8 14.3 12.3 10.0 7.6 6.0
470 429 400 337 300 237 200 148 100 62 34 2.3
13.6 13.0 21.2 16.7 15.2 15.5 19.5 26.0 27.0 40.3 42.5 43.0
500 526 558 600 618 641 668 700 713 756 800 850

18.0 17.9 15.9 10.4 6.9 8.4 7.6 4.6 6.0 8.7 8.8 8.0 8.0 6.5 4.3
567 545 523 500 471 428 400 345 300 242 200 150 100 50 23 1.4
14.9 15.1 18.8 28.7 35.5 38.7 39.7
600 640 668 700 724 756 800

927.55

31+50

32+00

32+50

2.46 919.00 ✓ 11.01 916.54 ✓

33+00

33+50

34+00

34+50

3.26 919.80 ✓ 2.46 916.54 ✓

31+50

87.9	88.9	92.7	98.7	06.7	06.6	04.9	08.6	14.2	16.6	18.3	22.2	23.6	24.7	23.5	20.8	19.4	19.6	21.6	22.6
800	750	700	665	612	600	550	500	450	400	373	338	300	255	200	153	100	50	6	0

32+00

88.5	88.7	90.6	93.3	95.7	98.1	99.6	01.9	06.6	09.8	11.9	13.8	18.9	22.4	22.6	23.0	21.9	20.7	19.9	21.2	21.7
800	770	728	700	655	600	550	500	442	421	400	350	300	252	200	167	142	100	40	8	0

+50

88.8	90.3	92.7	95.1	96.6	95.7	99.0	00.8	00.3	01.5	03.6	10.1	15.3	18.2	19.2	20.2	19.3	19.3
800	747	700	650	600	555	500	446	400	365	337	300	254	200	152	100	41	0

32+00

88.8	92.0	99.4	900.4	00.5	00.4	99.6	98.4	98.4	99.0	99.8	04.7	09.1	12.1	15.4	17.5	15.9	15.3
800	700	646	600	555	500	455	426	400	350	300	258	200	153	100	50	30	0

33+50

88.8	91.8	97.2	03.2	06.6	01.6	00.9	03.0	00.3	98.6	98.3	99.1	00.9	05.5	08.8	12.7	16.3	13.10	12.5
800	700	672	650	600	541	500	470	433	400	355	300	262	200	149	100	59	17	0

34+00

03.1	07.0	03.7	00.3	00.6	02.8	99.5	98.3	02.2	07.1	10.4	12.3	15.5	13.4	09.6	08.9
670	660	600	550	500	460	400	361	300	257	200	147	100	52	34	0

34+50

04.9	09.3	07.9	01.4	99.9	99.5	03.5	03.4	06.2	11.5	14.5	18.0	20.2	16.5	06.9	04.2
700	683	660	600	548	500	452	400	344	300	250	200	144	100	47	0

1-30-29

11.0 9.3 5.4 4.0 2.9 4.1 0.8 8.2 8.0 6.0
400 373 338 300 255 200 153 100 50 6 5.0
13.4 17.0 22.7 21.0 20.9 28.7 34.9 38.7 39.7
450 500 550 600 642 662.5 700 750 800

28.0 25.7 21.0 17.8 15.7 13.8 8.7 5.2 5.0 4.6 5.7 6.9 7.7 6.4
550 500 442 421 400 350 300 252 200 167 142 100 46 8 5.9
28.8 31.3 35.3 37.0 38.9 39.1
600 655 700 728 770 800

24.0 17.5 12.3 9.7 8.4 7.4 8.4
337 300 254 200 152 100 71 8.3
26.1 27.3 26.8 28.6 31.9 31.0 32.5 34.9 37.3 38.8
36.5 400 446 500 552 600 650 700 747 800

19.4 20.6 20.6 20.0 19.2 14.3 9.9 6.9 3.6 1.5 3.1
453 424 400 350 300 258 200 153 100 50 20 3.7
18.6 18.5 18.6 17.6 27.0 30.2
500 555 600 646 700 800

16.0 18.7 26.4 20.7 17.9 18.1 13.5 10.2 6.3 2.9 5.9
470 433 400 355 300 262 200 149 100 59 17 6.5
18.1 17.4 12.4 15.0 21.8 27.5 30.2
500 541 600 650 672 700 800

15.3 18.7 18.4 16.2 19.7 19.7 16.8 11.9 8.6 6.7 3.5 6.6 9.4
600 550 500 460 400 361 300 257 200 147 100 82 24 10.1
12.0 16.9
660 670

19.5 16.5 16.6 12.8 9.5 4.5 1.0 +1.2 2.5 12.1
500 452 400 344 300 250 200 144 100 47 14.8
19.1 17.6 11.1 9.8 14.5
540 600 660 683 700

35+00	719.80	
35+50		
36+00		
36+50		
37+00		
37+50		
38+00		
38+50	3.42 719.77 5.45 714.35	
39+00		
39+50		
40+00		
40+50		
41+00		

35+00

00.3	99.6	99.7	02.9	06.6	11.1	11.2	11.8	13.8	15.2	12.2	8.7	04.9	03.5
600	555	500	452	400	355	300	252	200	153	100	71	43	0

35+50

01.3	00.5	00.5	05.5	12.5	12.5	10.7	07.8	10.3	10.0	08.2	06.4	04.6	04.2
600	555	500	455	420	400	362	300	240	200	137	100	55	0

36+00

17.1	14.6	10.9	8.2	06.8	05.9	04.5	05.2	04.0
400	350	300	248	200	152	100	40	0

+50

21.9	55.6	04.1	01.9	01.5	01.9	02.7	03.1	04.8	04.0
350	300	289	260	300	165	150	100	54	0

37+00

10.8	06.2	01.9	01.2	00.8	00.8	01.6	02.6	04.6	07.9	07.2	07.7
333	320	300	280	250	200	147	143	100	50	15	0

37+50

11.8	05.0	02.1	01.2	00.9	00.9	00.9	01.4	02.5	03.3	07.3	11.4	13.4	13.8	13.0
335	318	300	288	250	200	175	150	140	136	100	45	53	10	0

38+00

08.9	04.8	02.7	01.3	00.9	00.9	01.6	02.9	04.8	05.1	10.0	12.9	14.6	16.7	17.8
322	312	300	280	250	200	160	139	129	125	100	82	56	16	0

+50

10.6	07.1	03.6	02.1	01.0	00.7	01.5	01.7	04.7	09.8	14.0	16.5	18.4
322	312	300	290	262	200	162	150	127	100	80	40	0

39+00

08.0	02.2	00.7	00.8	00.8	02.5	01.4	06.8	12.7	15.7	16.8
325	300	250	200	160	130	125	100	71	37	0

+50

05.9	02.1	01.6	00.9	00.7	01.2	01.8	02.3	03.5	08.8	11.3	13.4
332	312	300	255	200	162	124	117	100	55	23	0

40+00

00.8	00.8	00.9	01.3	03.9	06.1
300	200	150	100	42	0

+50

00.8	00.9	01.7	01.9	03.7
200	150	100	52	0

41+00

00.8	00.9	03.2	03.8	05.4
200	150	100	60	0

1-31-29

19.5 20.2 20.1 19.7 19.2 17.7 8.6 8.0 6.0 4.6 7.6 11.1 14.7
600 555 500 452 400 355 300 252 200 153 100 71 43 16.3

18.5 19.3 19.3 14.3 7.3 7.3 7.1 12.0 7.5 7.8 11.6 13.4 15.2
600 555 500 455 420 400 362 300 240 200 137 100 55 15.6

2.7 5.2 8.9 11.6 13.0 13.9 15.3 14.6
400 350 300 248 200 152 100 40 15.8

12.1 14.2 15.7 17.9 18.3 17.9 17.1 16.7 15.0
350 300 287 220 200 165 150 100 54 15.8

9.0 13.6 17.7 18.6 19.0 19.0 18.2 17.2 15.2 11.9 12.6
333 320 300 280 250 200 147 143 100 50 15 12.1

7.0 14.8 17.7 18.6 18.9 18.9 18.9 18.4 17.3 16.5 12.5 8.4 6.4 6.0
335 318 300 288 250 200 175 150 140 136 100 65 53 10 6.8

10.9 15.0 17.1 18.5 18.9 18.9 18.2 16.9 15.0 14.7 7.8 6.9 5.2 3.1
322 312 300 280 250 200 160 139 127 125 100 82 56 16 2.0

7.2 12.7 16.2 17.7 18.3 18.1 18.3 18.1 15.1 10.0 5.8 3.3
322 312 300 290 262 200 162 150 127 100 80 40 1.4

7.8 15.6 17.1 17.0 17.0 15.3 16.9 11.0 5.1 2.1
325 300 250 200 160 130 125 100 71 37 1.0

11.9 15.7 16.2 16.9 17.1 16.6 16.0 15.5 14.3 9.0 6.5
333 312 300 255 200 162 124 117 100 55 23 4.4

17.0 17.0 16.9 16.5 13.9
300 200 150 100 42 11.7

17.0 16.9 16.1 15.9
200 150 100 52 14.1

17.0 16.9 14.6 14.0
200 150 100 60 14.4

	917.77		
41+50			
42+00			
42+50			
43+00			
43+50			
44+00			
B.M.		7.29	908.48 ✓ 908.46

41+50

00.8	01.2	03.1	04.6	07.2	06.6	04.8
200	150	114	100	73	40	0

42+00

00.8	01.8	04.0	05.8	08.2	09.3	08.0	06.6
200	154	130	117	100	63	37	0

+50

00.8	01.8	04.6	07.6	07.6	08.9
200	150	124	100	60	0

43+00

00.8	01.6	02.4	04.7	06.8	08.2
200	150	100	68	40	0

+50

00.8	01.2	02.6	05.9
150	100	30	0

44+00

00.8	01.0	01.4	01.9
150	100	50	0

1-31-24

17.0	16.6	14.7	13.2	10.6	11.2	
200	150	114	100	73	40	13.0

17.0	16.0	13.8	12.0	9.6	8.5	9.8
200	154	30	117	100	63	37	11.2

17.0	16.0	13.2	10.2	10.2
200	150	124	100	50	9.1

17.0	16.2	15.4	13.1	11.0	
200	150	100	68	40	9.6

17.0	16.6	15.2	
150	100	30	11.9

17.0	16.8	16.4	
150	100	500	15.9

PROJ # 29-17

LINE REVISION FROM STA. 12+16^{19} TO STA. 54+17^{81}

STA.	POINT	Δ LT.	Δ RT.
18+62.86	P.T.	16°-10'	
+50		15°-51'	
18		14°-36'	
+50		13°-21'	
17		12°-06'	
+50		10°-51'	
16		9°-36'	
+50		8°-21'	
15+48.50	P.I.		Δ-32°-20'
15		7°-06'	D-5° LT.
+50		5°-51'	T-332.31
14		4°-36'	L-646.67
+50		3°-21'	R-1146.28
13		2°-06'	
+50		0°-51'	
12+16.79	P.C.	0°-00'	
12+15.5			
13+17.8	P.O.T.		
0+00			

2-11-29

62.86
32.=
95 06

Flag Post. 75

29°5' 12" OAK

32.2

10" OAK

81°43'

STA.	POINT	Δ LT.	Δ RT.	
28+99.9	P.T.		20°-05'	
+50		←	19°-05'	
28		←	18°-05'	
+50		←	17°-05'	
27		←	16°-05'	
+50		←	15°-05'	
26		←	14°-05'	
+50		←	13°-05'	
25		←	12°-05'	
+50		←	11°-05'	
24+19.55	P.I.			Δ-40°-10
24		←	10°-05'	D-4°-R.
+50		←	9°-05'	T.-523.82
23		←	8°-05'	L-1004.17
+50		←	7°-05'	R-1432.69
22		←	6°-05'	
+50		←	5°-05'	
21		←	4°-05'	
+50		←	3°-05'	
20		←	2°-05'	
+50		←	1°-05'	
19		←	0°-05'	
18+95.73	P.C.		0°-00'	

2-11-29

STA	POINT	Δ LT	Δ RT		
39+11 ^{38} ✓	P.T.		5°-16'		
39			5°-02'		
+50			4°-02'		
38			3°-02'		
37+80 ^{12}	P.I			Δ-10°-32'	
+50			2°-02'	D- 4°- R.	
37			1°-02	T- 132 ^{07} ✓	
+50 ✓			0°-02'	L- 263 ^{33} ✓	
36+48 ^{05} ✓	P.C		0°-00'	R- 1432 ^{69} ✓	
36+45 ^{85} ✓	P.T.	8°-15'			
36		7°-20'			
+50		6°-20'			
35		5°-20'			
+50		4°-20			
34+41 ^{08}	P.I.			Δ-16°-30'	
34		3°-20		D- 4°-L.	
+50		2°-20'		T- 207 ^{73} ✓	
33		1°-20		L- 412 ^{50} ✓	
+50 ✓		0°-20		R- 1432 ^{69} ✓	
32+33 ^{35} ✓	P.C.	0°-00'			

2-11-29

Boat Spike

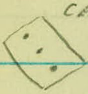
14" OAK

△ 60

Boat Spike

Boat Spike

Boat Spike



CENTER LIGHTING ROD
ON BARN.

△ 80

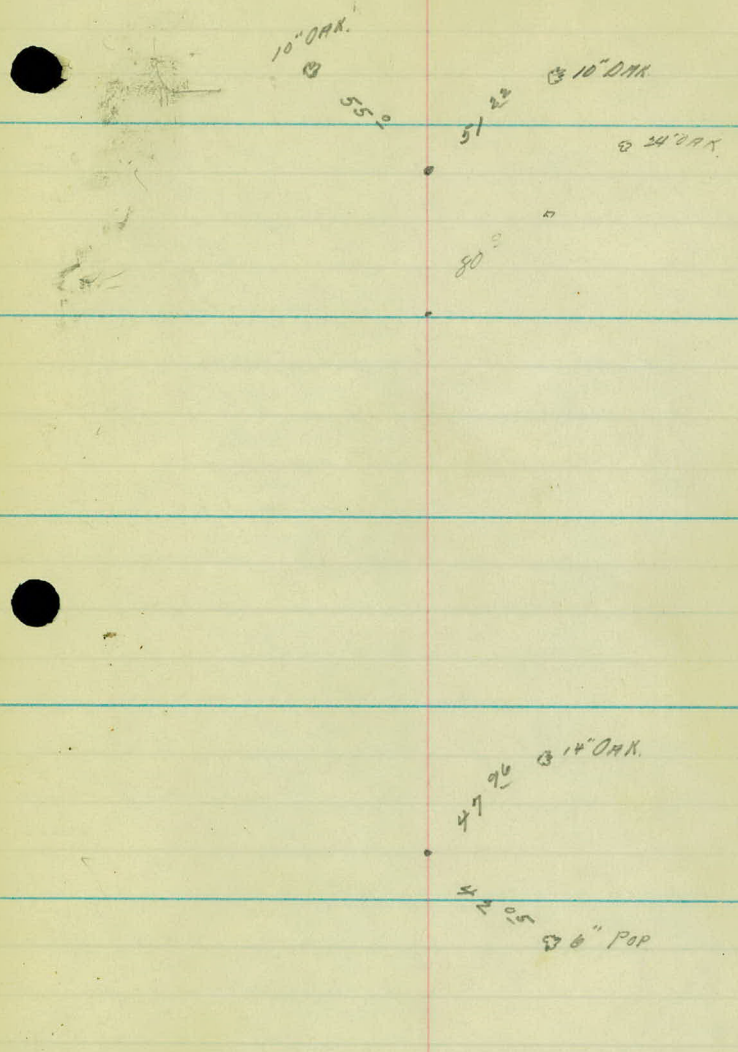
106.10

99.80

STA.	POINT	Δ LT	Δ RT.	
53+65.83				
54+17.81	P.T. =		17°-41.5'	
54			17°-25.5'	
53			15°-55.5'	
52			14°-25.5'	
51			12°-55.5'	
50			11°-25.5'	
49			9°-55.5'	
48+47.65	P.I.			Δ-35°-23'
48			8°-25.5'	D-3°-R.
47			6°-55.5'	T-609.28
46			5°-25.5'	L-1179.44
45			4°-55.5'	R-1910.08
44			2°-25.5'	
43			0°-55.5'	
42+38.37	P.C.		0°-00'	

40+17.78 P.O.T.

2-11-29



PROJ # 29-17
LINE REVISION
ART TOPOG FROM STA 12
TO STA. 54

16

15

14

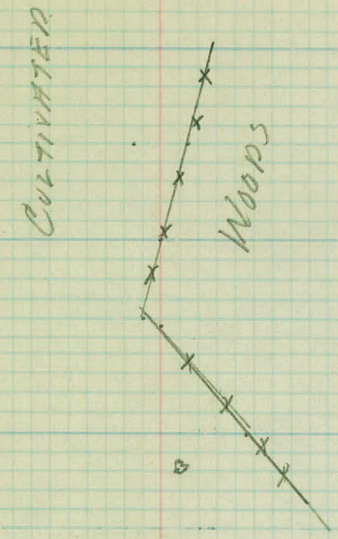
13

12

11

10

2-16-29



22

21

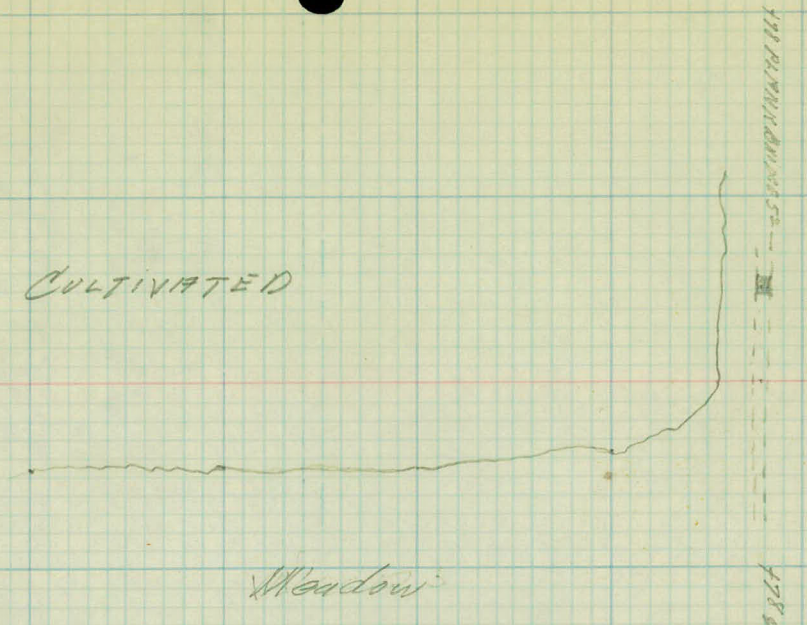
20

19

18

17

16


CULTIVATED
Meadow
HEAD DITCH

28

27

24

25

24

23

22

2-16-29

HAY FIELD.

+65 F. Con 37

HAY MEADOW

34

33

32

31

30

29

28

2-16-19

HAY FIELD.

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38

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36

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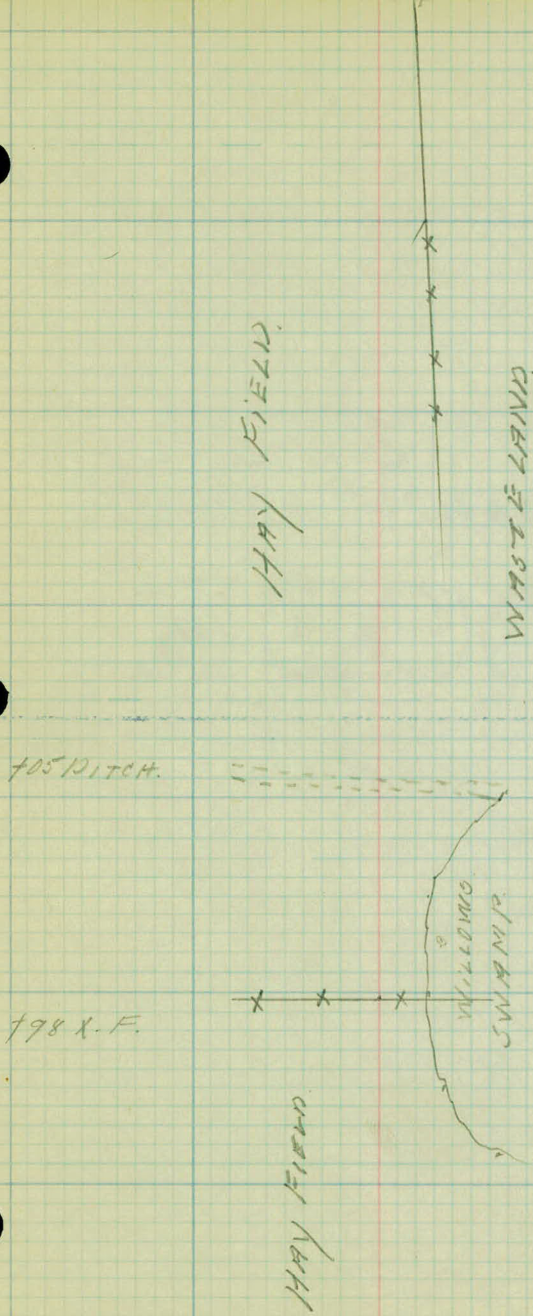
2-16-29

F. 35



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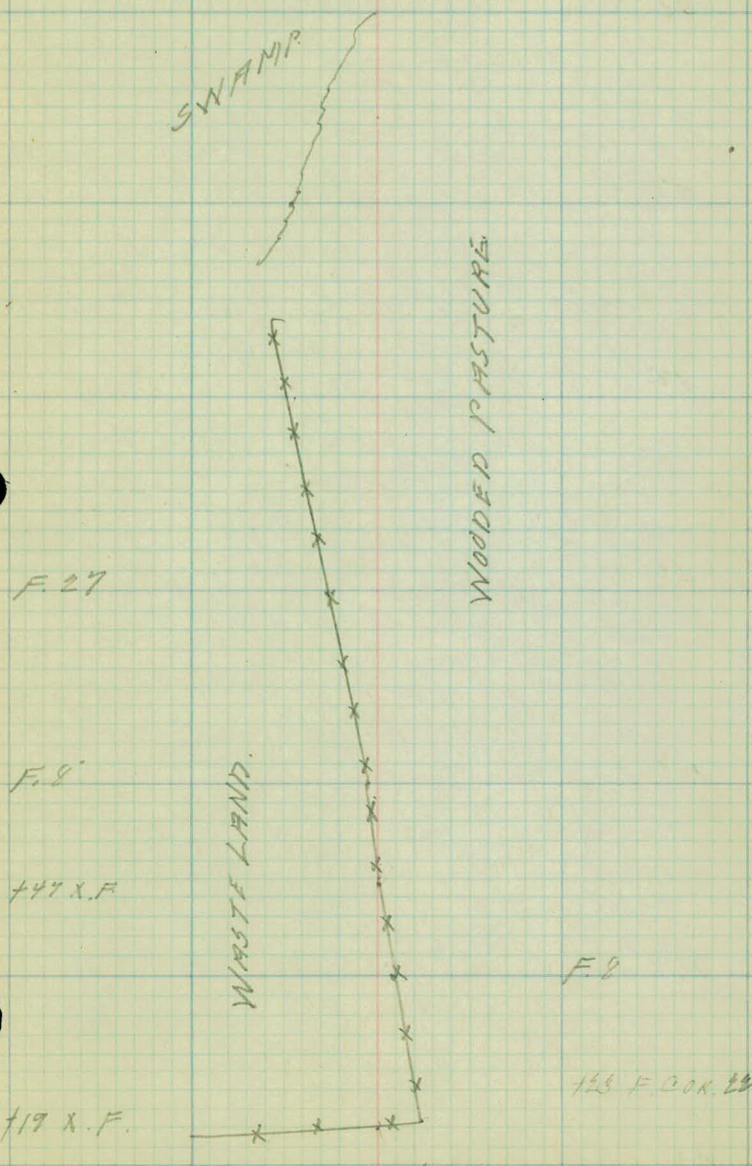
3-16-29



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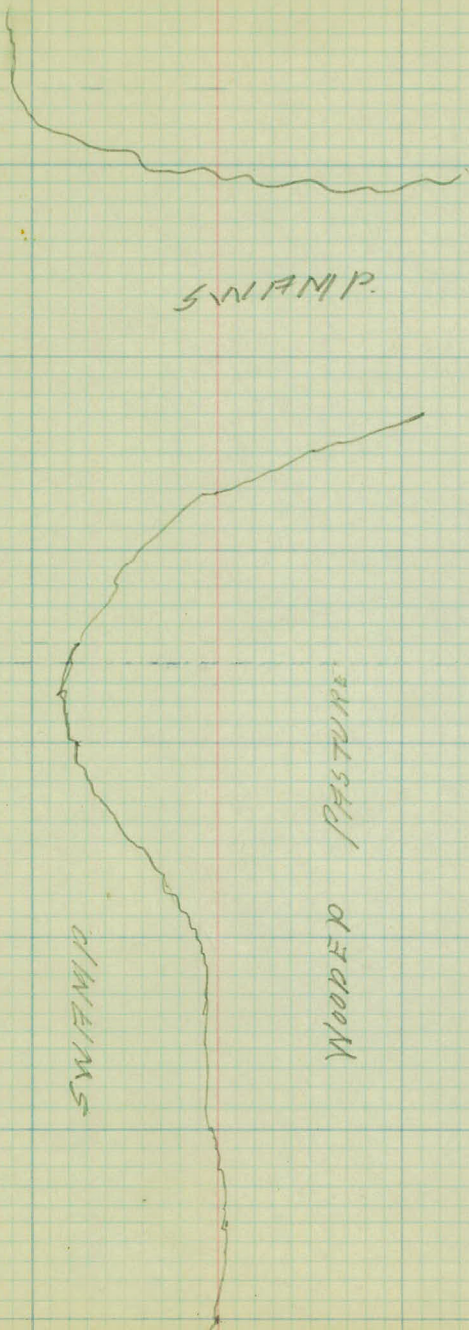
2-16-29



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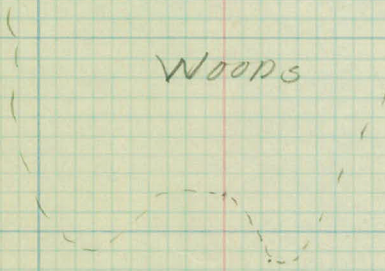
2-16-27



PROJ # 29-17

LINE REVISION.

CENTER LINE LEVELS & X SECTIONS FROM STA. 12+16.19 TO STA. 54+17.81

B.M.	3.23	877.60		874.37	
12+50			874.37 3.23 877.60		72.1
13+00			3.33 877.27		72.6
			12.19 886.46 11.08		
13+50			875.38 3.96 879.34		73.3
14+00			878.34 1.10		74.2
	12.19	886.46	3.33	877.27	
14+50					75.5
15+00					82.3
15+50					83.8
16+00					83.0
16+50					82.3
17+00					81.6
17+50					78.1
	3.96	879.34	11.08	875.38	
18+00				878.29	73.9
B.M.	1.10	879.47	1.05	879.29	878.37
18+50					72.5

2-14-29

878.37

TOP OF MONT. 50 RT. 3 STA 137 18.

7.0	6.8	6.6	7.0	6.3		6.0	6.4	5.4	5.6
50	30	20	13	10	5.5	16	23	40	50

6.6	6.3	6.2	5.6		5.5	5.5	5.2
50	22	16	15	5.0	17	33	50

5.9	5.6	5.4	4.8		4.3	4.8	4.4
50	15	12	8	4.3	13	19	50

5.7	5.0	4.4	4.2		3.7	4.6	4.0	2.5
50	23	16	11	3.4	8	14	22	50

14.3	12.7	12.5	11.9		7.3	7.9
50	30	19	16	11.0	24	50

12.4	11.6	9.7	6.7		3.4	4.2
50	43	29	14	4.2	21	50

9.2	6.9	5.0			1.7	1.5	1.4	1.3
50	31	18	2.7		14	22	37	50

7.9	6.4	4.9			2.2	2.0	2.0
50	33	19	3.5		18	33	50

7.0	5.2	5.1			4.5	4.7	5.0
50	37	17	4.2		24	37	50

6.4	5.2				5.6	6.6	7.1
50	25	4.9			17	36	50

7.5	7.6			8.0	11.7
50	24	8.4		20	50

4.1	3.2	4.5			4.6	7.6	8.0
50	41	24	5.4		21	43	50

5.5	4.6	4.2	5.7		8.5	8.7	9.7
50	44	23	11	7.0	22	36	50

		879.47			
19+00					73.9
19+50					73.3
20+00				879.47 8.39 871.08 4.79 875.87 1.89 873.98 13.64 887.62	72.5
20+50					71.8
21+00					71.4
	4.79	875.87	8.39	871.08	
21+50					69.9
21+70					68.8
21+75				8.3	67.57
21+78	CENTER OF PITCH			9.8	66.1
21+81				8.3	67.57
21+87					69.7
22+00					69.7
22+50					70.2
23+00					71.2
23+50					72.4
	13.64	887.62	1.89	873.98	

2-14-29

931.61

5.4	5.1			7.2	8.6	9.7
50	20	5.4		20	35	50
6.5	5.8	5.3		6.9	8.1	9.9
50	40	21	6.2	16	31	50
6.6	6.3			7.8	9.2	9.8
50	19	7.0		17	31	50
7.2	7.1	7.6		8.1	9.9	10.3
50	34	12	7.7	27	39	50
7.9	8.1			8.7	10.2	10.4
50	30	8.1		20	37	50
4.8	5.0			6.6	7.2	
50	21	6.0		26	50	
6.5	6.7			7.4	7.3	
50	25	7.1		20	50	
			→ TOP OF ICE			
7.8		8.3		9.8		8.4
50		7.8		50		
6.4	6.4			6.8	7.0	
50	22	6.2		27	50	
5.5	5.8			6.6	6.7	
50	22	6.2		25	50	
5.3	5.3			6.2	6.4	
50	24	5.7		27	50	
4.5	4.6			5.0	5.1	
50	20	4.7		22	50	
3.5	3.5			3.4	3.6	
50	22	3.5		23	50	

		887.62			
24+00					75.8
24+50					84.9
	13.39	900.22	0.79	886.83	
25+00					92.0
25+50					96.9
	12.14	912.10	0.26	899.96	
26+00					01.3
26+50					06.1
27+00					12.4
	13.29	924.90	0.49	911.61	
27+00					12.4
27+50					15.2
28+00					15.8
28+50					16.6
29+00					20.1
29+50					21.3

2-15-29

12.7	12.5			11.1	11.3	
50	24	11.8		33	50	
3.0	2.6	2.9		3.6	4.8	5.3
60	50	24	2.7	30	50	60
8.6	7.5	8.1		9.5	10.1	12.2
75	50	24	8.2	28	50	75
3.7	4.2	3.9		1.5	2.2	4.5
75	50	26	3.9	24	50	75
17.4	16.9	14.3		7.3	6.2	8.1
75	50	25	10.8	24	50	75
16.4	13.7	8.6		3.6	2.9	4.4	6.4
75	50	22	6.0	19	38	50	75
12.2	7.7	6.0	4.9	(+0.3)			
75	50	40	23				
				11.5	12.6	13.7	14.4
			12.5	12	34	50	75
18.7	14.0	10.9		10.6	10.5	8.8
75	50	13	9.7	31	50	75
11.0	9.7	8.3		9.6	8.1	6.6
75	50	23	9.1	25	50	75
6.2	6.5	7.6		6.4	5.3	5.7
75	50	24	8.3	29	50	75
6.6	6.5	6.1		2.1	3.9	4.5
75	50	25	4.8	32	50	75
6.8	6.2	5.0		4.0	4.5	3.7
75	50	31	3.4	30	50	75

		924.90			
30+00					20.5
30+50					18.9
31+00					18.7
31+50					19.5
32+00					20.1
32+50					21.0
	4.32	924.42	4.73	920.17	
33+00					20.1
33+50					15.9
			7.92		
34+00					13.8
34+50					15.3
35+00					11.0
35+50					
	2.44	914.43	12.50	911.99	
35+00					

2-15-29

4.3 / 50 — 4.2 / 25 — 4.4 — 4.5 / 21 — 3.2 / 50

7.0 / 50 — 7.0 / 35 — 6.0 — 5.1 / 25 — 2.0 / 50

7.1 / 50 — 7.4 / 29 — 6.2 — 5.2 / 26 — 3.7 / 50

5.0 / 50 — 5.3 / 21 — 5.4 — 5.3 / 33 — 5.1 / 50

1.4 / 50 — 3.8 / 21 — 4.8 — 5.7 / 29 — 5.9 / 50

3.0 / 50 — 3.0 / 25 — 3.9 — 5.0 / 30 — 4.9 / 50

STA 33+00.

7.3 / 50 — 5.4 / 25 — 4.4 — 4.3 / 28 — 4.9 / 50

12.7 / 50 — 10.4 / 25 — 8.6 — 7.6 / 22 — 6.8 / 50

14.6 / 50 — 13.0 / 25 — 10.7 — 8.4 / 26 — 8.7 / 50

10.3 / 50 — 9.8 / 29 — 9.2 — 9.8 / 22 — 12.8 / 50

5.3 / 50 — 6.3 / 40 — 9.2 / 20 — 13.5

10.5 / 50 — 12.9 / 26 — 11.4

3.4

6.8 / 20 — 8.8 / 50

	914.43			
35+50				09.1
36+00				05.4
36+50				05.1
37+00				04.2
+02			10.4	
+04	CENTER OF DITCH		11.6	02.8
+06			10.1	
37+50				06.7
38+00				12.2
	7.82	920.84	1.41	913.02
38+50				15.1
39+00				16.2
39+50				16.0
40+00				12.6
	1.22	910.34	1.174	909.12
40+50				05.7
B.M.	1.84	910.30	1.84	908.50 908.46
41+00				03.7

2-15-29

908.46 40+10.

902.99 BIRCH

911.37 48+60 5.3 7.7/15 9.6/31 10.1/50
911.32

909.73 57+50 7.8/50 8.3/20 9.0 10.2/19 10.8/40 10.9/50

10.0/50 9.9/26 9.3 9.1/26 9.9/50

11.5/50 10.7/24 10.2 9.9/28 10.5/50

12.2/50 11.6 11.0/50

10.9/50 9.0/23 7.7 7.6/29 8.0/50

8.1/50 5.0/25 3.3/5 2.2 0.8/20 1.1/50

11.3/50 9.5/40 11.1/17 5.7 4.8/22 3.2/50

9.8/50 7.8/40 6.1/20 4.6 3.5/23 1.8/40 1.5/50

11.1/50 8.4/38 6.9/23 4.8 4.3/19 3.4/33 3.0/50

14.5/50 9.9/18 8.2 7.4/11 6.1/25 6.0/33 5.5/50

7.6/50 6.0/20 4.6 3.1/17 1.2/40 0.4/50

SPK IN 24" OAK 100' RT. STA 40+70

8.6/50 8.2/30 6.6 5.6/30 5.2/50

		910.30			
41+50					03.3
42+00					04.0
42+50					05.7
43+00					08.4
	6.51	915.29	1.52	908.78	
43+50					098
44+00					10.7
44+50					10.3
45+00					08.1
45+50					05.6
46+00					04.0
	11.56	913.28	13.57	901.72	
46+50					02.9
			10.19		
47+00					02.0
47+50					02.1

2-15-29

6.5/50	7.2/28		7.0	6.4/30	6.2/50	
3.3/50	3.9/44	5.6/17	6.3	6.5/26	6.8/50	
2.8/50	3.4/36	3.7/19	4.6	5.1/29	5.7/50	
1.5/50	2.0/28	2.1/16	1.9	1.9/22	2.4/50	
7.5/50	7.2/40	6.7/24	5.5	4.6/21	4.3/50	
	7.0/50	6.0/25	4.6	3.3/22	2.2/50	
11.7/50	10.2/35	6.8/15	(7.4) 5.0	2.3/23	0.2/50	
13.5/50	12.9/43	9.8/17	(8.1) 7.2	5.1/22	2.9/50	
13.7/50	12.8/38	11.5/17	(9.4) 9.7	8.0/20	6.7/39	6.0/50
	13.8/50	13.2/22	(8.7) 11.3	9.4/25	8.5/50	
11.8/50	11.6/30	11.4/12	(7.0) 10.4	8.2/19	6.3/40	6.4/50
12.0/50	11.8/30	11.4/15	7.3 11.3	9.7/14	6.2/33	4.4/50
12.0/50	11.8/24		7.5 11.4	9.4/19	7.6/28	5.5/50

		913.28			
48+00					02.1
48+50					03.8
49+00					08.9
13.M.			1.93	911.35	
49+50					088
	12.55	915.37	10.46	902.82	
50+00					03.8
50+50					01.2
51+00					00.2
52+00					02.0
52+40					05.5
52+75					12.8
53+00					12.5
53+50					08.0
54+00					09.4
					0

2-15-29

11.8/50	11.6/30	11.2	9.2/19	6.6/31	3.7/50	
11.8/50	11.6/40	10.9/18	7.5	5.6/23	4.3/40	3.3/50
7.0/50	6.0/25	4.4	3.7/22	3.4/50		

SPK IN 8" DIK 40 AT STA 49+20.

6.2/50	4.8/20	4.5	5.2/16	5.4/32	5.7/50	
13.8/50	13.0/27	11.6	10.2/26	8.3/50		
14.4/50	14.0/30	14.2	13.9/26	13.4/56		
15.2/50	15.2	15.2/50				
13.4/50	13.5/34	13.4	13.3/27	13.5/50		
11.2/50	10.7/30	9.9	8.3/32	8.0/50		
3.8/50	2.3/27	2.6	2.7/33	2.7/50		
5.7/50	4.6/28	2.9	2.8/32	4.1/50		
9.1/50	8.1/30	7.4	7.6/25	8.2/50		
6.6/50	5.7/35	6.0	7.2/34	8.0/50		

715.37

54717 81

10.3

4.10 716.91 2.56 712.81

B.M. 7.19 909.72 909.73

2-15-29

$\frac{3.7}{50}$ $\frac{3.4}{26}$ 5.1 $\frac{6.5}{33}$ $\frac{7.7}{50}$

PROJ # 29-17

CURVE ON ORIGINAL LINE
AT END OF PROJECT

62+79^{58} P.T.	41°-50'	
+50	38°-08'	
62	31°-53'	
61+51^{7} P.I.		Δ-83°-40'
+50	25°-38'	D.-25° R.
61	19°-23'	T.-206^{79}
+50	13°-08'	L.-334^{67}
60	6°-53'	R.-231^{01}
+50	0°-38'	
59+44^{21} P.C.	0°-00'	

59+29^{8} P.O.T.

B.M.	12.42	892.08 ✓	879.66	
60+00			81.6 ✓	
+50			80.5 ✓	
61+00			79.3 ✓	
+50			80.9 ✓	
+85			87.2 ✓	
62+00			87.3 ✓	
+50			87.3 ✓	
+79.50			87.2 ✓	
C3			4.97	87.11 ✓
+50			5.10	86.98 ✓
C4			5.24	86.84 ✓

62+75 CATTLE PASS

B.M. 12.42 879.66 ✓

1-8-29

9.7 10.0 10.5 10.6 10.5 10.0 8.6 6.7
50 33 23 10 17 33 50

12.1 11.9 11.8 11.0 10.5 9.4
50 33 17 11.6 21 33 50

EDGE OF PAVE

4.65 4.7 7.3 9.8 11.5 12.8 12.9 12.6 11.3
67 50 50 42 33 21 12.8 17 33 50

EDGE OF PAVE

4.85 4.80 4.88 4.8 10.2 13.0 12.6 12.1
50 44 25 19 4 11.2 7 33 50

EDGE OF PAVE

5.6 4.80 4.80 4.70 4.80 12.5 12.9 12.5 12.3 11.7
50 47 39 27 9 4.9 18 22 23 33 50

EDGE OF PAVE

9.7 4.7 4.82 4.7 4.8 4.9 10.4 12.0 12.6 12.3 12.1 11.4
50 37 29 14 0.4 4.8 7 19 24 27 28 33 50

EDGE OF PAVE

9.1
50

6.6 6.5 8.2 8.4 5.0 4.90 4.90 4.9 5.7 6.4 10.7 13.1 12.1 10.8
50 49 44 34 22 16 4.80 12 17 22 26 33 37 39 40

℄ OF PAVE

5.7 5.6 7.7 8.1 5.2 5.02 4.97 5.1 12.0 10.4 5.5 3.7
50 47 41 30 20 13.5 4.88 12.5 17 29 35 42 50

NOW ELEV.
13.80

ELEV. RT.

EXTENDS 22.5' RT.

PROJ # 29-17

Borrow Pit

Co Rd F & STH 62

B.M. 0+00	8.07	891.28		883.21
0+50				
0+88				
1+00				
1+50				
2+00				
2+19				
2+35	13.09	903.74	0.63	890.65
0+50				
0+88				
1+00				
1+50	5.89	906.96	2.67	901.07
0+50				

5-9-29

SPK. IN 10" OAK 60 RT. STA. 677+90.

10.2 11.4 12.1
40 33 18 12.7 (78.6)

2.1 5.7 9.0 10.4
63 50 33 20 11.7 (79.4)

6.8 10.1
56 5 10.9 (80.4)

6.4 8.8
32 13 10.1 (81.2)

1.6 5.7
34 18 8.8 (82.5)

11.4 11.7 7.8
43 31 15 9.7 (81.6)

EDGE OF PAVE

8.65 8.8 11.0
33 21 8 10.9 (80.4)

8.78 EDGE OF PAVE

1.9 8.8
100 81 24.3

1.5 7.1 13.0
81 68 50 23.3

0.0 4.9 11.7
78 67 50 22.5

0.0 5.9
64 50 21.2

6.9 4.0 3.0 3.1
150 129 117 110 27.6

		906.96		
0+88				
1+00				
1+50				
	2.46	896.58	13.07	893.92
0+88				
	4.71	887.69	13.40	882.98
0+88				
1+00				
1+50				
2+00				
13.M.			4.48	883.21

5-9-29

13.5	9.2	5.8	3.1	1.9	2.7	26.6
172	150	133	115	94	88	

13.1	12.9	10.2	5.2	2.2	1.5	2.1
184	164	150	122	100	92	83

25.8

3.5	2.4	2.5	24.5
56	73	67	

4.9	16.0
208	

EDGE OF PAVE

4.7	4.8	6.0	6.8	5.9	7.3
285	273	263	249	237	

EDGE OF PAVE

4.98	4.8	6.3	6.8	6.0	6.5
203	251	240	230	214	

EDGE OF PAVE

4.53	4.7	7.1	5.6	5.2
166	156	139	122	

EDGE OF PAVE

4.88	5.2	6.1
71	58	

PROJ H 29-17

SOUNDINGS

SOUNDING ON ℄ AT. STA. 51+60

0'-5' MUCK

5'-7' FINE GRAVEL

7'-? BLUE CLAY

SOUNDING ON ℄ AT. STA. 51+00

0'-5' MUCK

5'-6' BLUE CLAY

6'-7'+ FINE SAND

SOUNDING ON ℄ AT. STA. 21+80 IN DITCH

0'-1' SAND

1'-4'+ BLUE CLAY

SOUNDING ON ℄ AT STA 17+50

0-1' SAND

1'-5'+ CLAY

SOUNDING ON ℄ AT. STA 16+50

0'-4½'+ SAND

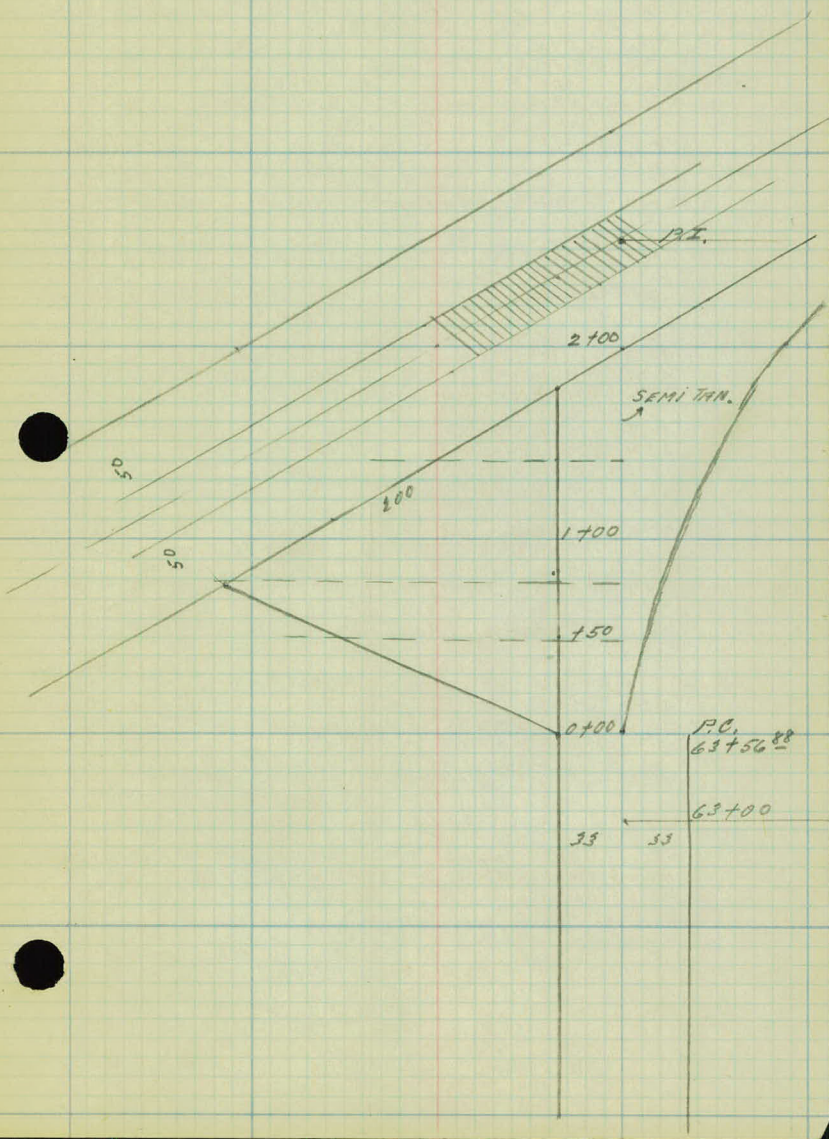
SOUNDING ON ℄ AT STA 15+00

0°-3½' SAND

3½'-4' SANDY CLAY

SOUNDING ON ℄ AT. STA 15+50

0'-4½'+ SAND.


P.I.
2700
SEMI TAN.
50
50
200
1700
150
0700
P.C.
63+56.88
63+00
33
33

PLANS IN HAND. 5-8-29 O.R.V.K. W.S.M. H.L.W.

29-17

✓1+94 Rt. P. 12"x20' C.M.

✓2+00 to 3+50 - Cl. 1 T. Gr. 6 T.

✓3+62 - Remove - P. 30"x60' P_3.

✓4+50 to 5+00 - Cl. 2 T.

✓6+60 Rt - P. 15"x30' C.M.

✓8+87 - Lt - P. 15"x20' C.M.

✓9+65 - Rt - No culv. req.

✓9+00 to 12+25 Lt Cl. 12' wide. 0.09 Acres

✓10+00 to 13+00 Rt Cl. 15' wide. 0.10 Acres

✓12+00 - P. 24"x42' P_3.

✓13+25 - Rt - P. 15"x20' C.M.

✓13+25 to 14+00 - Cl. + Gr. 5 T.

✓14+50 to 15+50 - Cl. + Gr. from fence line to R.O.W. 0.12 Ac.

✓14+00 - Lt - P. 15"x20' C.M.

✓18+25 - Rt - P. 15"x20' C.M.

✓Get ditch drainage on Lt from 18+00 to 22+00

✓24+50 Rt & L. - P. 2. 15"x20' C.M.

Figure claying from 0+00 to 20+00.

✓29+00 to 29+50 - Gr. 1 T.

✓37+05 - P. 24"x66' P_3

✓38+00 - Lt - No culv. req.

✓40+00 to 40+50 - Cl. + Gr. 2 T.

✓40+50 to 50+00 - Cl. + Gr. by acre where necessary

41+50 - P- 24" x 54' P3.

46+25 - P- 24" x 42' P3

48+00 to 50+00 - Ditch for drainage on Rt.

50+30 - P- 24" x 48' P3 H.D. 400'

52+25 to 54+00 - Gr. by acre.

54+00 to 60+25 - Cl. + Gr. by acre.

60+00 - R. + Lt. - P- 2- 15" x 20' C.M.

61+50 to 62+00 - Cl. 3T.

61+85 - P- 24" x 54' P3. H.D. 200'

64+50 to 66+00 - Cl. + Gr. 10 T.

65+50 - P. 36" x 48' P3. Ditch to Lt. of Exc. price.

62+00 to 65+50 - H.D. on Rt.

13+17.8

10.0
9.5
5.5

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