

Book #45-D: #8

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Main Plan.....Survey

SOUTH SHORE BLVD.

From White Bear Ave. to E. Co. Line

Road Acc't. No. S.T.H. 100

Date Filed 1924

File 8

2-4-24

"13"

Maink Project
Acct No. 24

White Bear Blvd.

Sta 0+00 - 78+14.5

Pages 0 - 46

2-18-24 to 3-1-24

Align Notes

sheets 1 to 9

Sta 0 - 78+

Party { Cunner
Wilshusen
Ruttenberg

Level Notes

sheets 10-16

Sta 0 - 78

Fine Ck. level "
HLW
Keogh.

sheets 17-18

Sta. 0 - 78

Frt. Topog.

sheet 19 - 33

Sta 0 - 78

Fine
HLW
Keogh

Cross-sections

sheets 34 - 46

Sta. 0 - 78

Fine
HLW
Keogh.

Office of Ramsey Co. Engineer
ST. PAUL, MINN.

3/4/24

Date Filed

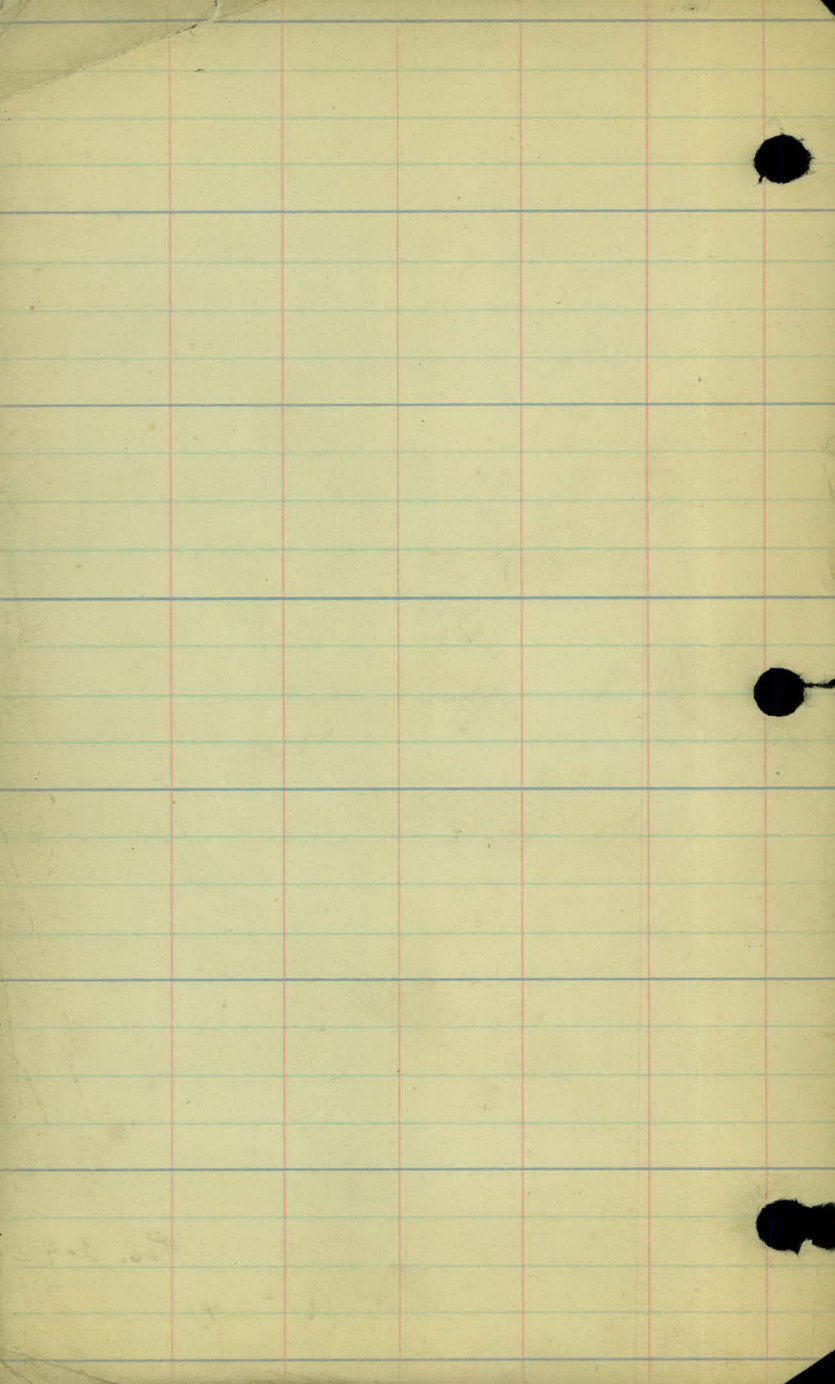
22824

Rec. 3-4-24

File No.

"13"

(R#24)



210 49 11 1997 11

056 1- 519-0

216 1- 127 1- 1997 11

0219 1- 127 1- 1997 11

0219 1- 127 1- 1997 11

0219 1- 127 1- 1997 11

0219 1- 127 1- 1997 11

0219 1- 127 1- 1997 11

Sta Point Lt Δ Rt Calc,

1003
423
567

538-21 EV

0+81.3 PI 25-20

1+43.3 PT 12-40

PI = 0+81.3

$\Delta = 25^{\circ}20'$

1+00

8-20

D = 50'-00' Lt

0+50

3-20

T = 64.7 ✓

L = 126.7 ✓

R = 287.9 ✓

0+16.6

PC.

00

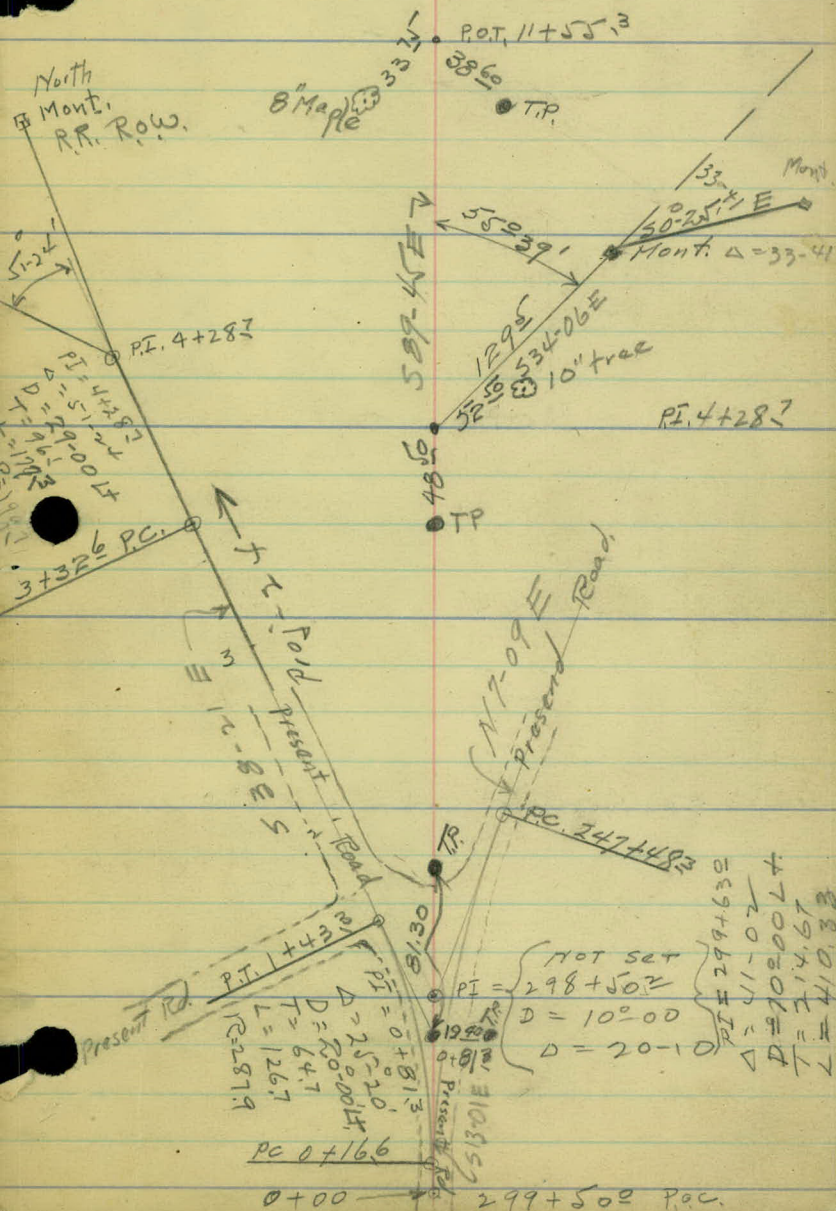
513-01 E

0+00

Sta 299+50 = 0+00

(2)

(2)



Sta Point Lt. Δ Rt. Calc.

589-45E ✓

4+287 PT 51-24

5709.8 PT 25-42 ✓

5+00

24-16

PI = 4+287 ✓

$\Delta = 51-24'$

D = 29-00 LT

T = 96' ✓

+50

17-01

L = 177 (3) + 4 ✓

R = 199.7 ✓

4

9-46

+50

2-31

(+353) 0.8
3+32.6

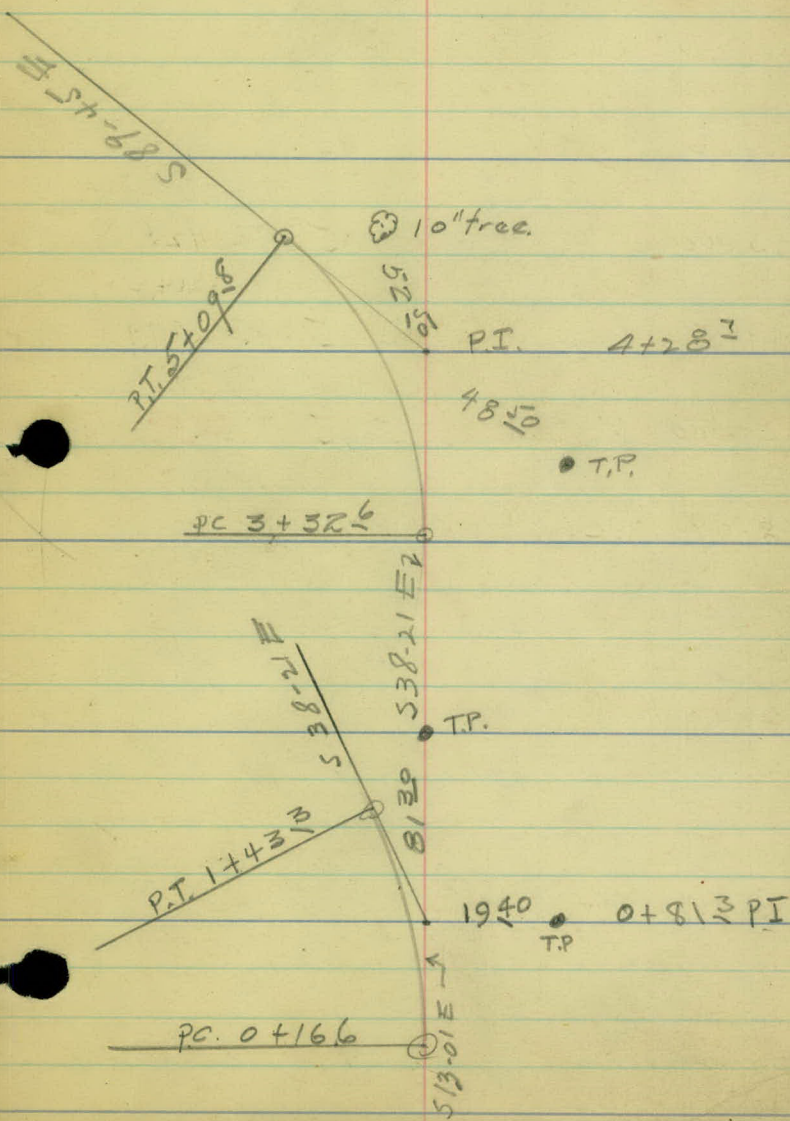
P.C. 00 ✓

538-21E

4+87
3+32.6
519.4

FMC 2-18-24

Proj-24



Sta Point Lt. Δ Rt Calc

19+62⁰ PI

42-50'

546-55 E ✓

20+63³ P.T.

21-25'

✓

20+50

20-05

PI = 19+62⁰

$\Delta = 42-50$

20+00

15-05

D = 20°-00 Rt.

T = 112.9

✓

19+50

10-05

L = 214.2

R = 287.9

✓

19+00

5-05

18+49' PC

00

✓

17365 5000

19

25882 50.0000
25882
241180

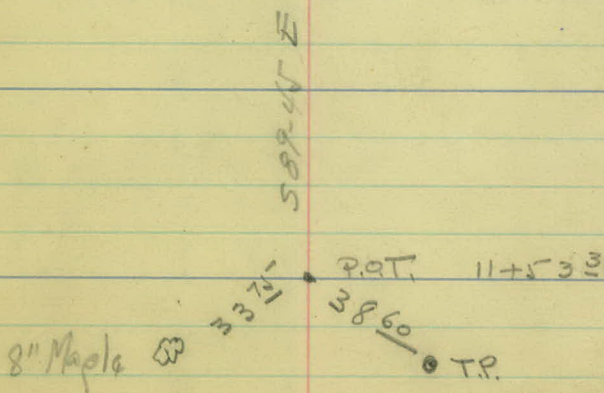
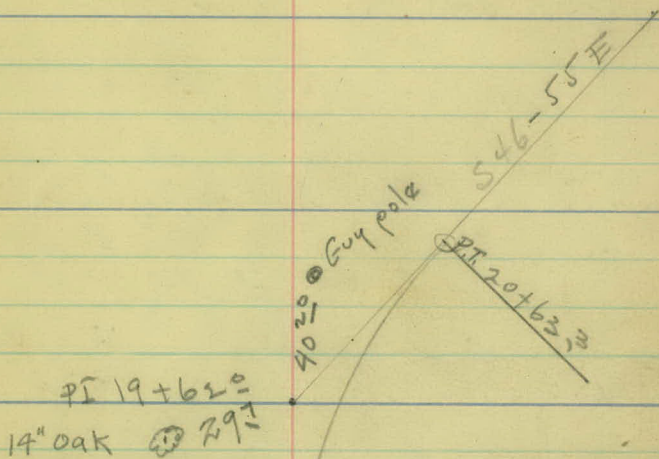
+553

11+53.3 P.O.T.

589-45 E

(14)
FMC-2-18-24

Proj. - 24



Sta. Point Lt Δ Rt. Calc.

N75-32 E ✓

24+25⁰ PI 57-33'

25+87⁴ PT 28-46 1/2 ✓

+50

25-47

PI = 24+25⁰

$\Delta = 57-33'$

D = 16-00 Lt

25+00

21-47

T = 197.3 ✓

+50

17-47

L = 359.7 ✓

R = 383.1

R = 359.26

24+00

13-47

+50

9-47

23+00

5-47

+50

1-47

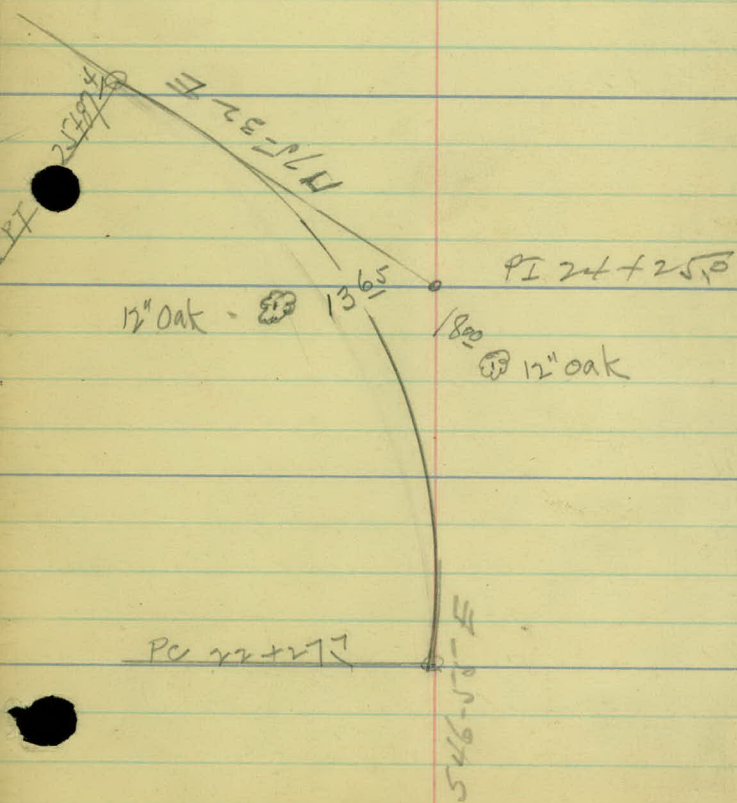
22+27.7

Pc

00

S46-55 E ✓

FMC 2-19-24
Proj-24



Sta Point Lt Δ Rt Calc.

48+288 P.I.

37-00

561-52 E ✓

+398 P.T. ✓

49+00

+50

48+00

+50

47+086 P.C. ✓

18-30 $PI = 48+288$

15-19 $\Delta = 37-00$

11-19 $D = 16-00$ Rt

7-19 $T = 120.2$ ✓

3-19 $L = 231.2$ ✓

00 $R = 383.1$

359.26

38+987 P.O.T.

N 81-08 E ✓

29+719 P.I.

5-36

$PI = 29+719$

$\Delta = 5-36$

$D = 2-00$ Rt ⁴⁰

$T = 70.1$

$L = 140.0$

$R = 286.4$

30+418 P.T. ✓

2-48

30+00

1-58

+50

0-58

29+018 P.C. ✓

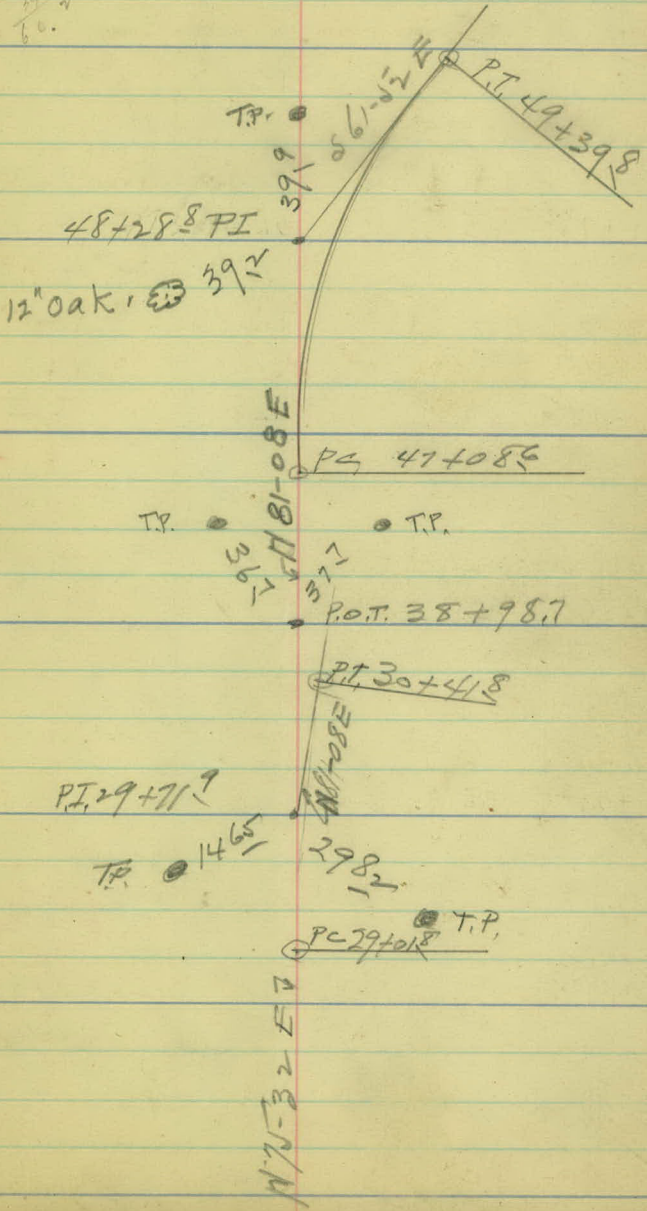
00

N 75-32 E

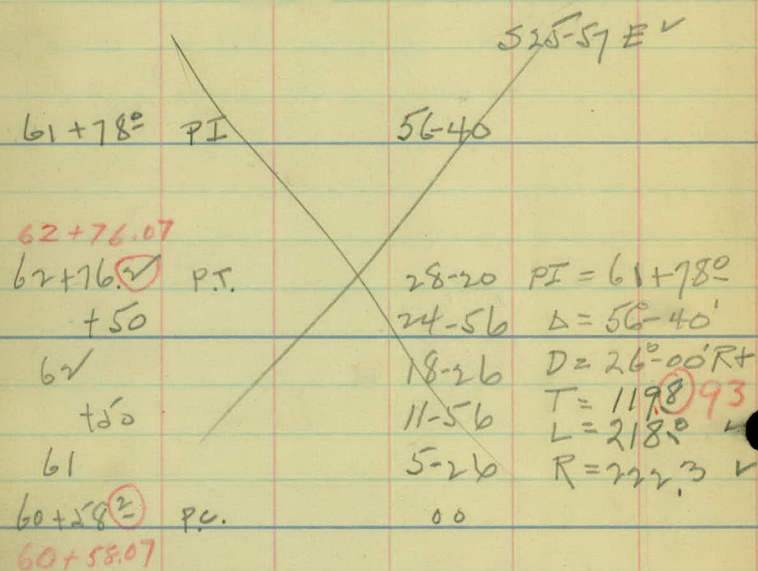
FMC 2-19-24

Proj-24

108
298
60

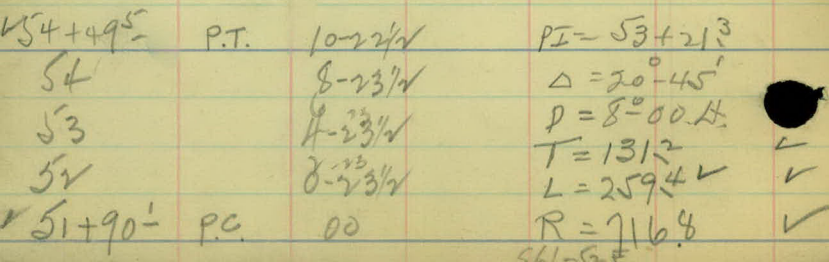


Sta. Point Lt. Δ Rt. Calc.



582-37 E ✓

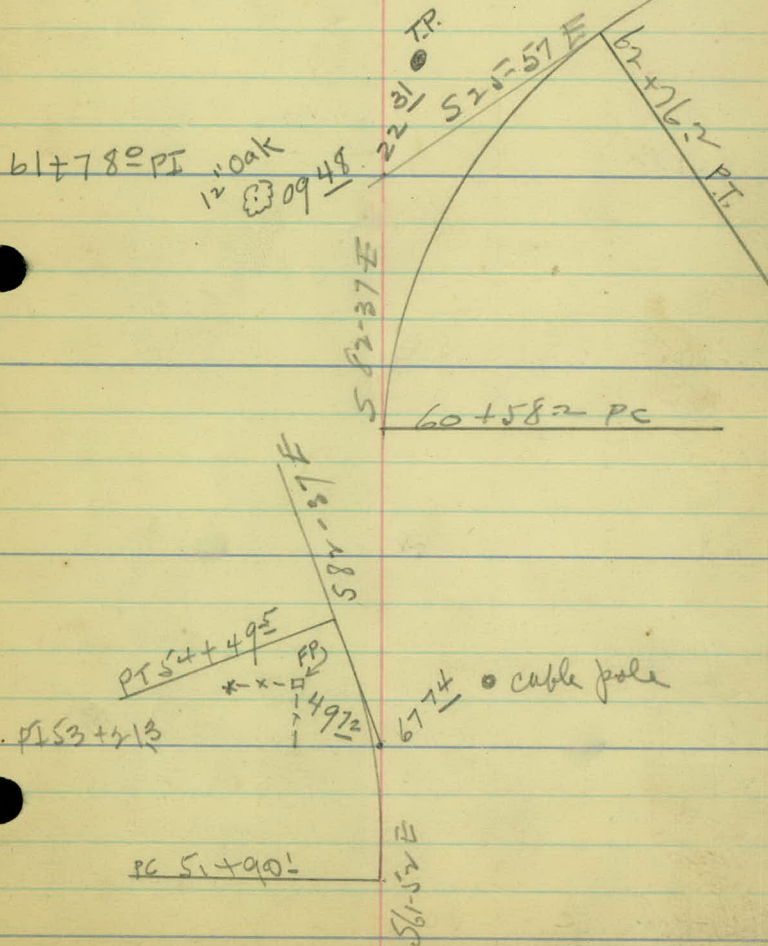
53+21.3 P.I. 20-45



FMC 2-21-24

Proj.-24

100
200
71



Sta Point Lt Δ Rt Cale.

70+82.9 P.I.

24-40

S30-37 E ✓

72+04.2 P.T. ✓

72

+50

71

+50

70

69+59.5 ✓

12-20

12-07 1/2 PI = 70+82.9

9-37 1/2 Δ = 24-40

7-07 1/2 D = 10°-00' RT

4-37 1/2 T = 125.4 ✓

2-07 1/2 L = 246.7 ✓

R = 513.7 ✓

00

66+78.4 P.I.

29-20

S55-17 E ✓

68+57.5 P.T. ✓

14-40

14-22

68

12-22

10-22

67

8-22

6-22

66

4-22

2-22

65

0-22

PI = 66+78.4

Δ = 29-20

D = 8°-00' Lt

T = 187.6 ✓

L = 366.7 ✓

R = 716.8 ✓

64+90.8 PC

00

S25-57 E

FMC 2-21-24
Proj 24

twain Willow 
38' 12"

70+82.9 P.I.

T.P. 29 28

630-37 E
72+04 = P.T.

69+57.5 PC

55-0-17 E

461-2-35
T.P.
68+57.5 P.T.
18 12"

16.68 @ 10' oak
PI 66+78.4

64+90.8 PC

52-0-37 E

Sta Point Lt Δ Rt Calc.

500°-11'E ✓

77+61.7 PI

71-26

78+08.85

78+14.5 P.T.

78

+75

+50

+25

77

76+89.8 PC

35-43 PI= 77+61.7

31-33

$\Delta = 71-37$ Rt

24-23 1/2

T= 71.90 ✓

17-14

L= 124.70 119.05

10-04 1/2

R= 100°

2-53

D= 60'

00

571-37 E ✓

74+08.4 P.I. 41-00

75+30.3 ✓ P.T.

20-30

75

18-04

+50

14-04

74

10-04

+50

6-04

73

2-04

72+74.1 ✓ PC

00

PI= 74+08.4

$\Delta = 41-00$

D= 16°-00 Lt.

T= 134.3 ✓

L= 256.2 ✓

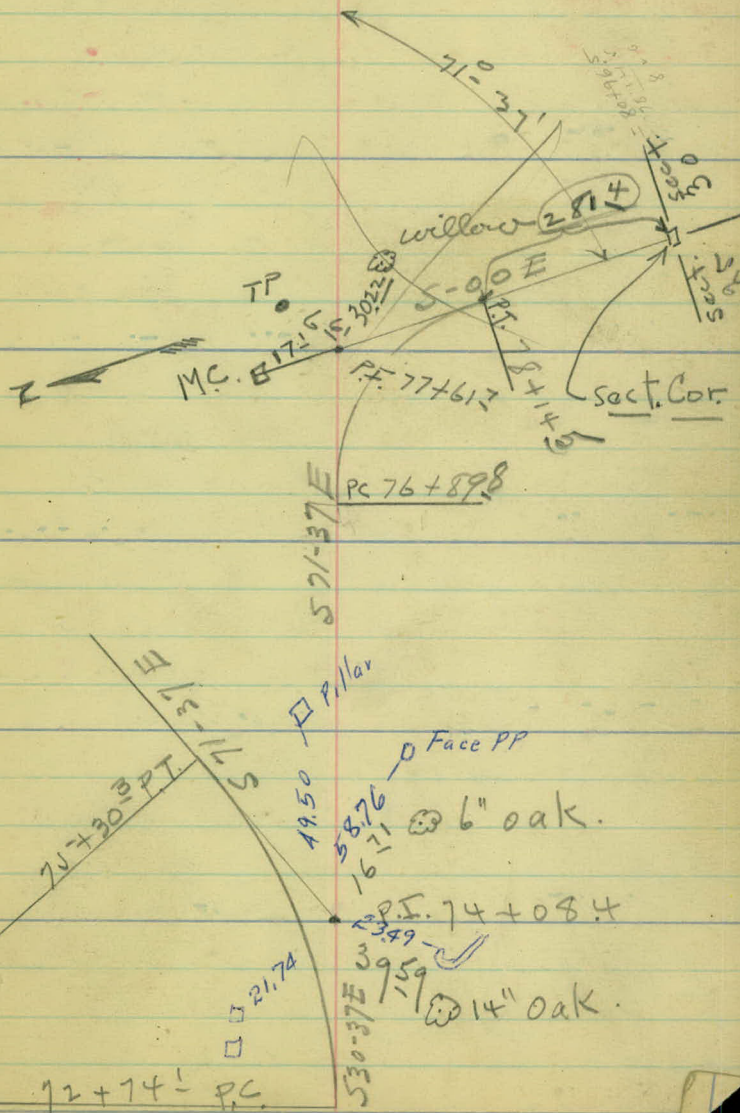
R= 359.3 ✓

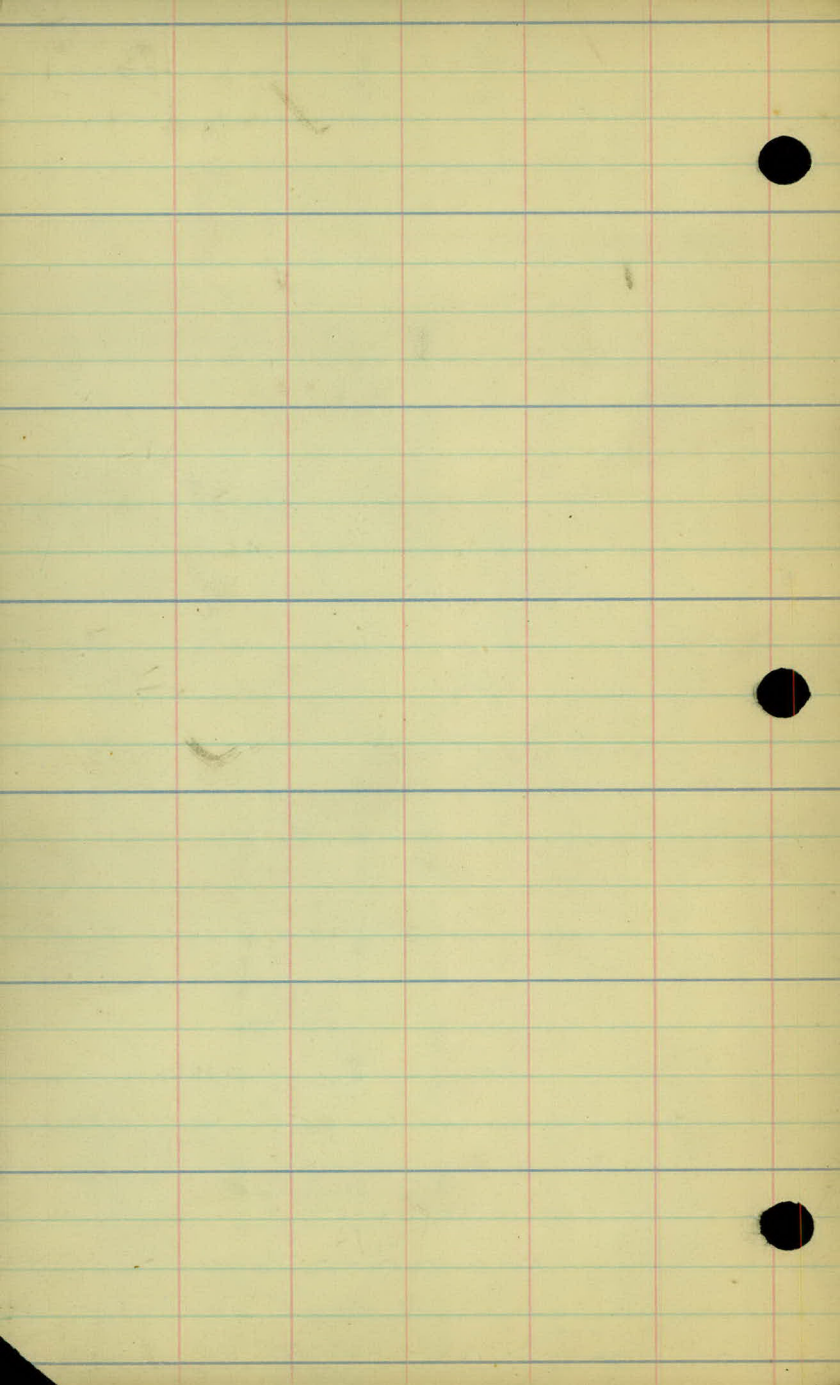
630-37 E

F.M.C. 2-23-24

Proj - 24.

(9)





Line Revision.

Acct. No. 24

$$20+66^1 = 20+63^3 \text{ P.T.}$$

$$20+29^0 \quad \text{P.T.}$$

$$21^0 25'$$

$$20$$

$$17^0 04'$$

$$\Delta. 42^0 50'$$

$$19+62^0 \quad \text{P.I.}$$

$$D. 30^0 - R.$$

$$+50$$

$$9^0 34'$$

$$T. 75.8'$$

$$19$$

$$2^0 04'$$

$$L. 142.8'$$

$$18+86^2 \quad \text{P.C.}$$

$$3+35^3 = 3+32^6 \text{ P.C.}$$

Original P.I.

2
Ang Lt. Ang Rt.

28 + 97.5 = 29 + 01.8 Equation

26 + 53.9 P.T. 23°46'

Δ . 23°46'

D. 10' - L. Ex. 12.6'

T. 120.7'

L. 237.7'

R = 573.7

25 + 63.9 P.I. 23°46'

24 + 16.2 P.C.

24 + 17.1 P.T.

Δ . 33°47'

D. 17' - L.

T. 102.8' Ex. 15.2

L. 198.7'

23 + 21.2 P.I. 33°47'

R = 338.3

22 + 18.4 P.C.

221-82
 1452.7
 1398.7
 221-82
 1452.7
 1398.7
 221-82

Sta. Def

24+16.2 - 0°00'

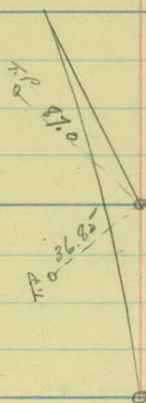
+50 - 1°41'

25+00 - 4°11'

+50 - 6°41'

26+00 - 9°11'

+53.9 - 11°53'



Sta. - Def

22+18.4 - 0°00'

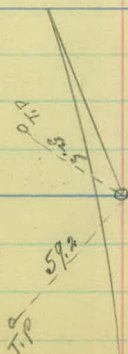
+50 - 2°41'

23+00 - 6°56'

+50 - 11°11'

24+00 - 15°26'

+17' - 16°53 1/2'



²
Height. Ang. Pt.

62+96.9 P.T.

62+25.5 P.I. 42° 30'

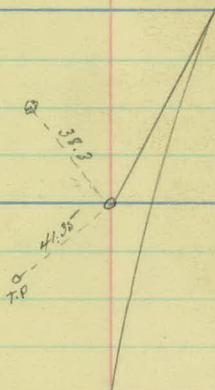
61+45' P.C.

61+44' P.T.

60+59.9 P.I. 17° 00'

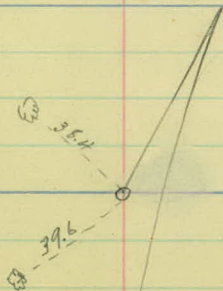
59+74' P.C.

Sta - Def.
 61+45' - 0°00'
 62+00 - 7°41'
 +50 - 14°41'
 +969 - 21°15'



28° Curve Rt.
 $\Delta = 42°30'$
 Rad = 206.68
 Tang = 80.37
 P.C. = 61+45'
 Length = 151.8
 P.T. = 62+969

Sta - Def.
 59+74' - 0°00'
 60+00 - 1°18'
 +50 - 3°48'
 61+00 - 6°18'
 +441 - 8°30'



10° Curve Rt.
 $\Delta = 17°00'$
 Rad = 573.7
 Tang = 60+59.8
 P.C. = 59+74.1
 Length = 170.0
 P.T. = 61+441

²
Hight. Ang Pt.

$$71 + 74.8 = 71 + 74.6$$

71 + 74.8 P.T.

70 + 85.3 P.I.

25° 33'

69 + 92.3 P.C.

68 + 64.2 P.T.

66 + 63.9 P.I. 33° 00'

64 + 51.6 P.C.

Sta. Def.

69+92.3 - 0°00'

70+00 - 0°32½'

+50 - 4°02½'

71+00 - 7°32½'

+50 - 11°02½'

71+74.8 - 12°46½'

Twin
Willow

37.2

31.5
T.P.

144° Curve Rt.

$\Delta = 25°33'$

Rad = 410.3

Tang = 93.0

P.C. = 69+92.3

Length = 182.5

P.T. = 71+74.8

Sta. Def.

64+51.6 - 0°00'

65+00 - 1°56'

+50 - 3°56'

66+00 - 5°56'

+50 - 7°56'

67+00 - 9°56'

+50 - 11°56'

68+00 - 13°56'

+64.1 - 16°30'

24.45

25.05

8° Curve Lt.

$\Delta = 33°00'$

Rad = 716.8

Tang = 212.3

P.C. = 64+51.6

Length = 412.5

P.T. = 68+64.1

80+95° Mont.

78+14.6 P.T.

77+61.7 P.I

71°40'

76+89.5 P.C.

60° Curve T.A.

$$\Delta = 71^\circ 40'$$

$$\text{Rad} = 100.0$$

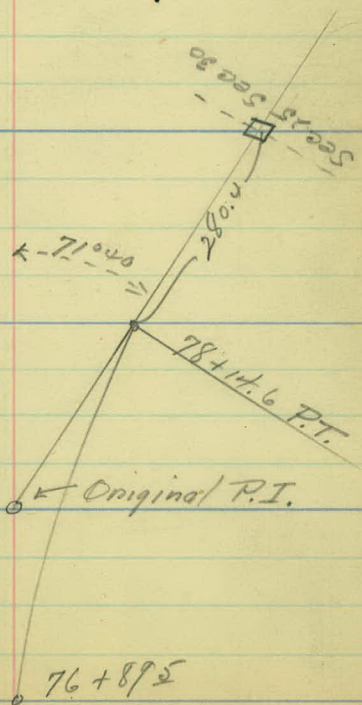
$$\text{Tang} = 72.2$$

$$\text{P.C.} = 76+89.5$$

$$\text{Length} = 125.1 (\text{Arc})$$

$$\text{P.T.} = 78+14.6$$

Rad. Herb. Set.



70° 10'

S/a + HI - E/cv. E/c.

B.M. 1+0 243.17 241.77

T.P. 4.26 238.83 ✓ 8.60 30.2 324.57 ✓
 299+50
 = 0+00 5.2 33.6 ✓

+50 5.5 33.3 ✓

+81.3 P.T. 5.8 33.0 ✓

1+00 6.2 32.6 ✓

2+00 6.0 32.8 ✓

3+00 6.3 32.5 ✓

3+32.6 P.C. 6.3 32.5 ✓

3+50 6.3 32.5 ✓

4+00 6.1 32.7 ✓

4+50 4.8 34.0 ✓

5+00 4.3 34.5 ✓

5+09.3 P.T. 3.6 35.2 ✓

T.P. 12.15 248.00 ✓ 2.98 236.85 ✓

6+00 10.7 37.3 ✓

7+00 8.6 39.4 ✓

8+00 5.2 42.8 ✓

9+00 2.4 45.6 ✓

T.P. 11.76 258.71 ✓ 1.05 246.95 ✓

10+00 9.8 48.9 ✓

11+00 7.4 51.3 ✓

12+00 5.5 53.2 ✓

(11)
F.M.C. - 2-25-24

Proj. - 24

RR spike Elect. pole. Rt Sta 291+80

Sta	+	HI	-	Elev	El.
13+00		258.71	4.4	54.3	✓
B.M.			2.99		255.71 ✓
14+00			3.7	55.0	✓
15+00			3.1	55.6	✓
T.R.	4.41	260.46 ✓	2.66		256.05 ✓
16+00			4.4	56.1	✓
17+00			4.2	56.3	✓
18+00			5.0	55.5	✓
18+49.1 P.C.			5.7	54.8	✓
19+00			6.7	53.8	✓
19+50			8.1	52.4	✓
20+00			9.6	50.9	✓
20+50			10.5	50.0	✓
20+63.3 P.T.			10.8	49.7	✓
21+00			11.8	48.7	✓
T.P.	1.02	249.68 ✓	11.80		248.66 ✓
22+00			3.5	46.2	✓
22+21.7 P.C.			4.1	45.6	✓
22+50			4.7	45.0	✓
23+00			6.5	43.2	✓
23+50			8.4	41.3	✓
24+00			10.1	39.6	✓
T.P.	3.06	242.39 ✓	10.35		239.33 ✓
24+50			4.6	37.8	✓
25+00			5.8	36.6	✓
B.M.			6.48		235.91 ✓
25+50			6.8	35.6	✓

F.M.C. 2-25-24

Proj. 24

13+15 - 35 ft Lt. 24" maple.

Sta 25+15 30 ft Lt. Power pole

Sta	+	HI	-	Elev.	El.
21781 ⁴ P.T.		242.39	6.7	35.7	✓
26+00			6.7	35.7	✓
27+00			6.6	35.8	✓
28+00			6.8	35.6	✓
29+01.7 P.C.			7.2	35.2	✓
T.P.	9.70	245.04	7.05		235.34 ✓
29+50			9.5	35.5	✓
30+00			9.6	35.6	✓
31+00			8.1	36.9	✓
32+00			5.3	39.7	✓
33+00			1.9	43.1	✓
TP	12.20	255.79	1.45		243.59 ✓
34+00			9.5	46.3	✓
35+00			6.6	49.2	✓
36+00			4.0	51.8	✓
B.M.	11.82	264.29	3.32		252.47 ✓
37+00			9.6	54.7	✓
38+00			6.2	58.5	✓
39+00			4.7	59.6	✓
40+00			4.8	59.5	✓
41+00			6.4	57.9	✓
42+00			8.9	55.4	✓
T.P.	1.79	253.89	12.19		252.10 ✓
43+00			1.8	52.1	✓
44+00			4.4	49.5	✓
45+00			7.5	46.4	✓
46+00			8.7	45.2	✓

FMC-2-25-24
Proj-24

~~State~~ 20 ft Rt 36+75 on T.P. trail

Sta	+	HI	✓ -	Elev.	EI.
47+00		253.89	7.6	46.3	✓
47+08.6 PC			7.6	46.3	✓
+50			7.1	46.8	✓
48+00			6.7	47.2	✓
48+50			6.2	47.7	✓
B.M.	10.83	257.65	7.07		246.8 ✓ ✓
49+00			9.2	48.5	✓
49+39.8 P.T.			8.2	49.5	✓
50+00			7.2	50.5	✓
51+00			5.8	51.9	✓
51+90.4 PC			4.7	53.0	✓
52+00			4.6	53.1	✓
52+50			4.3	53.4	✓
53+00			4.3	53.4	✓
+50			4.3	53.4	✓
54+00			4.4	53.3	✓
54+49.5 P.T.			4.6	53.1	✓
55+00			5.5	52.2	✓
B.M.	3.00	253.30	7.35		250.30 ✓
56+00			3.0	50.3	✓
57+00			4.5	48.8	✓
58+00			5.7	47.6	✓
59+00			6.2	47.1	✓
60+00			6.6	46.7	✓
60+58.2 PC			6.5	46.8	✓
61+00			7.2	46.1	✓
B.M.	3.88	250.17	7.01		246.29 ✓

FIVE - 2-25-24

Proj - 24

(58)

Nail in TP 48 + ~~50~~ 30 ft Lt.

Sta 60 + 75 12 ft Lt spike in T.P.

Sta.	+	HI	-	Elev	Elev
		250.17			
61+50			4.3	45.9	✓
62+00			4.5	45.7	✓
62+50			4.7	45.5	✓
62+76 ² P.T.			5.0	45.2	✓
63+00			5.1	45.1	✓
64+00			5.5	44.7	✓
64+90 ⁸ P.C.			5.7	44.5	✓
65			5.7	44.5	✓
65+50			5.2	44.7	✓
66+00			5.4	44.8	✓
66+50			5.2	44.6	✓
67			5.5	44.7	✓
67+50			6.1	44.1	✓
T.P.	1.80	245.87	6.10		244.07 ✓
68			1.6	44.3	✓
68+57 ² P.T.			1.9	44.0	✓
69			1.9	44.0	✓
69+57 ⁵ P.C.			3.8	42.1	✓
70+00			5.5	40.4	✓
70+50			7.1	38.8	✓
B.M.			6.94		238.93 ✓
71+00			8.5	37.4	✓
71+50			10.4	35.5	✓
72+00			10.6	35.3	✓
72+04 ² P.T.			10.6	35.3	✓
72+14 ¹ P.C.			10.5	35.4	✓

F.M.C. 2-25-24
Proj - 24

Bm 25 ft. nail in T.P. Sta 70+60

Sta + HI - Elev El

245.89

73+00

10.7

35.2 ✓

T.P.

7.39

242.54 ✓

10.72

235.15 ✓

73+50

7.5

35.0 ✓

74+00

7.6

34.9 ✓

74+50

7.5

35.0 ✓

75+00

7.3

35.2 ✓

75+30.3 P.T.

7.1

35.4 ✓

76+00

6.5

36.0 ✓

77+00

3.4

39.1 ✓

77+25

2.5

40.0 ✓

77+50

1.9

40.6 ✓

77+75

1.0

42.5 ✓

41.5

78+00

+0.4

42.9 ✓

78+14.5 +0.9 P.T.

+1.5

44.0 ✓

B.M.

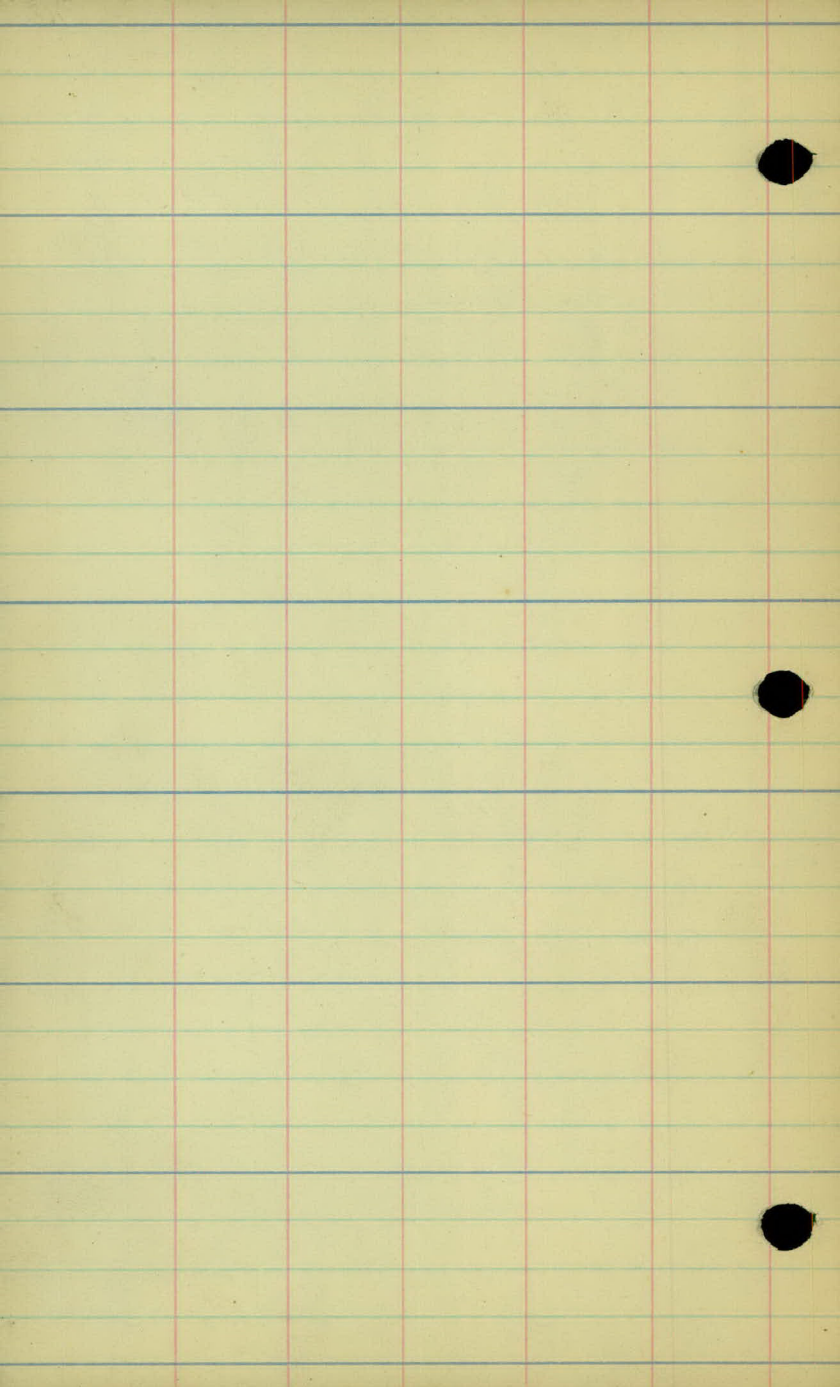
1.63

240.91 ✓

FMC - 2-25-21

Proj - 24

77 + 55- RT 1380 RT spike in power pole



Sta	+	HI	-	Elev	
B.M.	3.29	245.06		241.77	241.77
T.P.	4.37	240.30	9.13	235.93	
T.P.	11.31	250.71	0.90	239.40	
T.P.	9.06	259.34	0.43	250.28	
B.M.			3.57	255.77	255.72
T.P.	2.87	259.93	2.28	257.06	
T.P.	1.01	249.02	11.92	248.01	
B.M.	3.90	239.89	13.03	235.99	235.91
T.P.	12.20	251.65	0.44	239.45	
T.P.	10.91	261.66	0.90	250.75	
B.M.			9.16	252.50	252.47
T.P.	0.87	258.23	4.30	257.36	
T.P.	8.05	254.03	12.25	245.98	
B.M.			7.17	246.86	246.82
T.P.	2.21	255.61	0.63	253.40	
B.M.	3.74	250.06	9.29	246.32	246.29
T.P.	4.40	250.72	3.74	246.32	
B.M.	1.56	240.50	11.78	238.94	238.93
T.P.	7.10	243.83	3.77	236.73	
B.M.			2.88	240.95	240.91

ck. levels

2-28-24

Fmc Proj-24

(18)
R.R. spike in. Elect. pole Rt Sta 291+80

13+15 35 ft. Lt. 24" Maple.

25+15 30 ft Lt. Power Pole

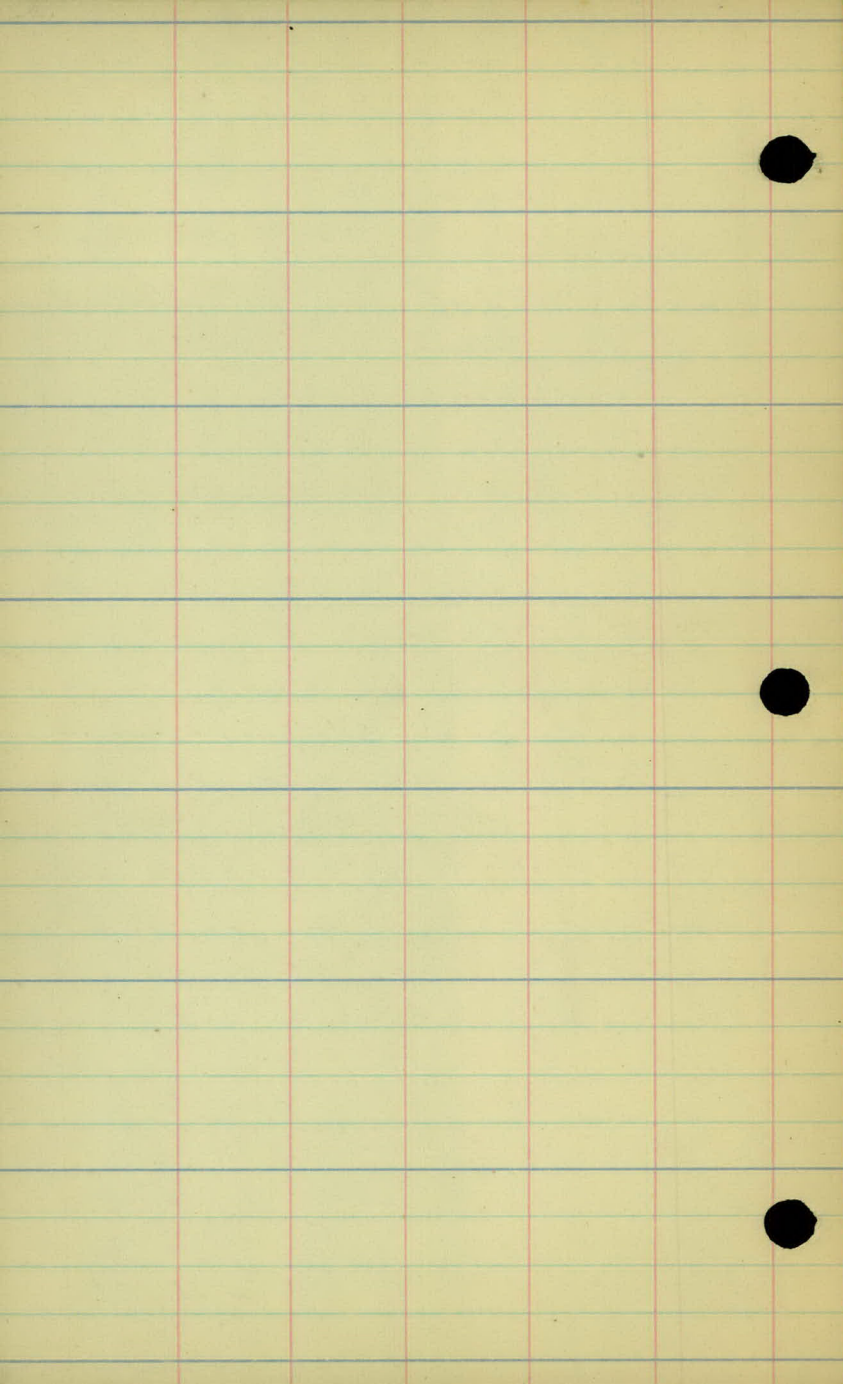
36+75 20 ft. Rn Nail in T.P.

48+50 30 ft. Lt. Nail in T.P.

60+75 12 ft. Lt. spike in T.P.

70+60 25 ft. Lt. Nail in T.P.

77+55 13 ft. Rn RR spike in. RR





5

4

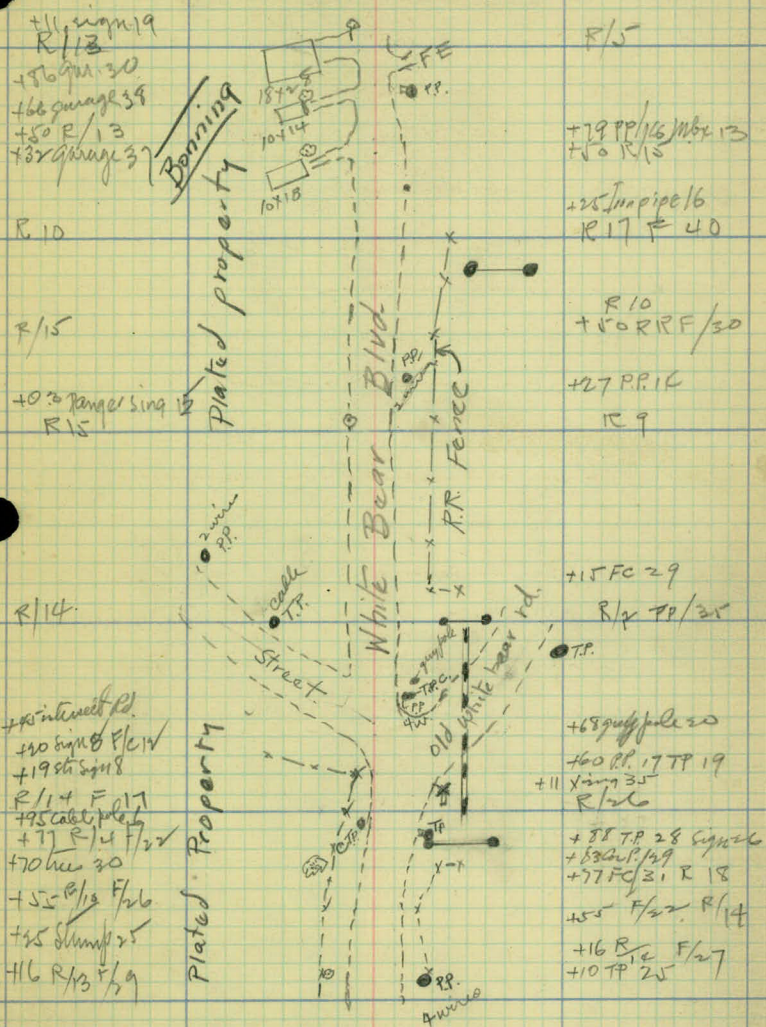
3

2

1 + 00

0 + 00

FMC 2-26-24
Proj - 24



11

10

9

8

7

6

5

F.M.C. - 2-26-24
Proj - 24

R10

R14

- +54 fence begins
- +42 centering
- +41 pillar 34
- +28 tree
- +18 tree 29
- R/13

G.M. McGeary

Property

- +90 driveway
- +93 pillar 34
- +6 tree 29
- +3 tree 29
- R/14

- +81 pillar 35
- +61 shut.
- +47 pillar 35
- +29 pole 13
- +04 pillar 35
- R/13

Property

CHAMBERLAIN

- +91 pillar 35
- +96 tree 35
- +73 garage
- +70 pillar 35 14

R/15

Plated

- +53 center shut.
- +72 tree 15
- R/14
- +18 on house 14
- +76 for pole 25 wooden
- +92 center sifo 30

House

J. Dunn

- +47 FC 17 TP 27
- +45 Mbx 15
- +03 TP 33

R16

- +94 tree 29
- +92 Mbx 16
- +62 tree 28
- +32 TP cable 24
- R/15

- +98 tree 30
- +74 TP 32
- +31 TP 20
- R/15

- +98 Mbx 18

R13

- +67 R/16
- +70 tree 13
- +42 Mbx 13

- Mbx 16
- +76 walk 16-32

17

16

15

14

13

12

11

FMC - 2-26-'24
Proj - 24

(22)

F/33 R/4

R/13 F/35

+44 garage 33

+42 FC

+40 pier 34

+37 turn

+12 turn

+75 pier 30

+65 pier 30

+59 turn

+48 dory F/34

+30 turn

R/15

+98 FC 35

+93 pier 34

+67 turn 194 turn

+36 turn

R/13 +13 turn

+92 FC 35

+72 turn

+64 pier

+14 turn

R/10

+40 turn 37

R/10

+42 prop pipe 36

+39 FC 35

+2 turn 34

E. Gale

J.W. Taylor

Plated Property

BM

FE

Farm Property. cultivated

C.W. Christensen

+86 turn 26

+54 TP 28

+47 TP 28

R/17

mbx 9 (+69)

+41 turn 23

+28 T.P. 27-32

+10 turn 27 F/33

R/15

+86 turn 22

+37 turn 22

+05 T.P. 29-32

R/15 F/33

+95 turn 22

+63 turn 22

+26 turn 22

+11 turn 22

+90 TP 27 R/15

+84 turn 22

+71 mbx 17

+79 TP 32

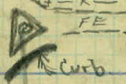
+67 turn 22

+38 FC 33

+23 turn 22

carb 19 R/13

+28 TP 27 FC 31 TP



(concrete curbing around this tree.)

23.

22

21

20

19

18

17

FMC. 2-26-24
Proj - 24.

R/16

R/9

+66 TP/21
+50 R/20

+68 T.P.27 FC/37
+50 F/10 (stone steps)
+28 FC/28

R/12

+94 TP 18

+06 mbr 16 R/15

+38 T & F/16
R/7 +17 mbr F/17

+42 mbr F/35
+22 mbr F/31
+11 TP 19

R/5

F 31 R/15

+64 TP 28 F/29

R/5 F/36

+91 TP 2
+50 F/37 R/18

+75 Run
+50 F/35 R/3
+9 TP 23-29

R/8 F/31

R/13 F/29

+04 FC/26
R/12

+04 FC/34
R/12

prop pipe 31-6

+80 mbr 35
+13 TP 33
F/33 R/14

+16 TP 25-31
+62 mbr 14
+06 mbr 15
R/13 F/35

Plated Property

White Bear Lake

LAKE

Pasture

Cultivated

Cultivated

29

28

27

26

25

24

23

(24)

FMC 2-26-24

Proj 24

R/7

R/17 F/36

R/9 +56 TP 14

R/14 +04 TP 26 F38

+34 TP R/12 18

R/12

+70 TP 29 F24

+18 TP 24 R/15

+18 TP 17 F/27 R/17

+26 TP 32 R/17

+50 R/7 F/15

R/12 +95 TP 32

R/100 F/15 +95 TP 14

+50 R/19

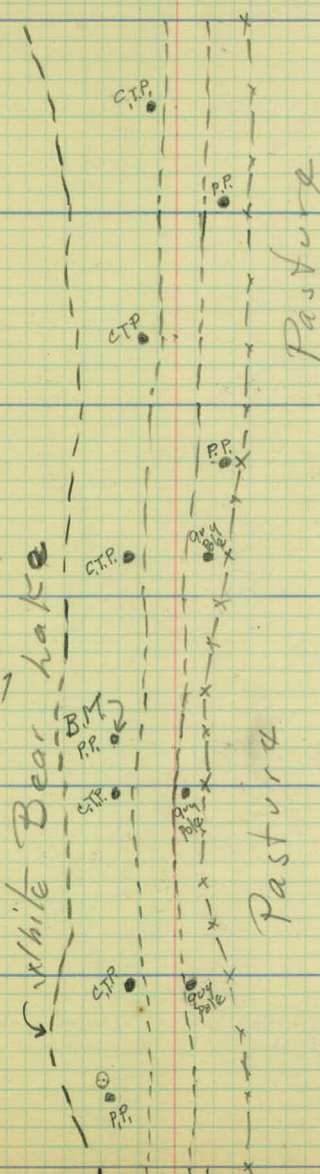
+50 R/100 F/16

R/17 +96 TP 24

R/5 +95 TP 9 F27

+50 R/12
+55 km 38
+36 TP 36

+50 R/10



35

34

33

32

31

30

29

FMC 2-26-24
Proj-24

(25)

R/15

O. claussem

R/7
+02 mbl/9

+30 TP 24
+08 FL 36 TP 4

R/12

M.H. Herrmann

R/11 mbl 11
+97 TP 23

+05 TP 26
+06 FC/30

R/12

R/12

+44 pillar 31

+31 pillar 31

R/18

+87 TP 26 F/32

R/15

+92 pillar 32

+98 v 32

+68 TP 27

+52 FC/35

R/14

+65 TP 16

+50 R/9

LAKE

Summer homes
WOODS

woods of Pasture

+83 TP 23

+28 FC 24

R 8 F 21

Swamp

+51 TP 2 F/24

R/7 F 27

R/10 F/32

+65 TP 20

+53 TP 22

+50 R 14

PP

Pasture

41

40

39

38

37

36

35

FMC - 2-26-24
Proj - 24

R 10

R 10

+47 TP 24

CT.P

PP

+65 TP 20

R/10

FE

FE

R/10

Leavitt Corriging

FE

PP

+34 MB 1/2

+32 TP 20

R 10

+26 TP 27
R 10

CT.P

Home's

R/10 +100 TP 27

CT.P

TP

R/10
+98 TP 20

R/10

50 m m v
cable telephone Lt.

FE

Lower bridge Rd

WOOD

R/10

+75 TP 25
+52 prof stake 366

CT.P

PP
B.M.

+70 TP 22

R/10

R/12

+57 Tennis court 32

+47 TP 25
100 cor. Tennis Court 12 1/2
R/10

CT.P

PP

+76 MB 10

+35 TP 20

R/7

47

46

45

44

43

42

41

FMC 2-26-24
Proj- 24

+21 F/21
F21 R10

end → x

R10

• C.T.P.

+85 T.P. 22 ✓

+05 trees 16 R/10

+68 PC/40

+86 sign post 22

Bellaire

+65 Hve

HC Johnson

+05 TP 22 ✓ R/12

+98.2 mbs 18

+94 mbs 18

+82 TP 22 ✓

+40 T.P. 25

R/10

H.P. Keller

+21 mbs 16

R/10

+44 T.P. 26

R/10

Homes

• C.T.P.

• PP

+60 TP 22

R/10

+10 T.P. 26

R/10

Woods

• C.T.P.

• PP

+20 T.P. 20

R/10

Woods

R/10

+16 TP 27

T.F. Ellerbe

• C.T.P.
FE

• PP

R/10

+86 TP 19

+61 mbs 14

52

52

51

50

49

48

47

FMC 2-26-24
Proj - 24

R/10

- +95 FE
- +18 FC 26
- +54 FC 29
- +53 TP 22
- +14 FC 30
- +12 FC 34

R/10

- +61 tree 20
- +53 FC 35

- +12 TP 26

R/10

- +89 FC 34

- +63 tree 1

- +59 tree 30

- +40 cement wall 32

- +06 TP 24

F 3 2 R/10

- +44 tree 31

- +36 tree 21 F/33

- +21 tree 39

- +18 tree 29

- +16 tree 29

R/10

- +61 tree 26

- +59 gum pole 35

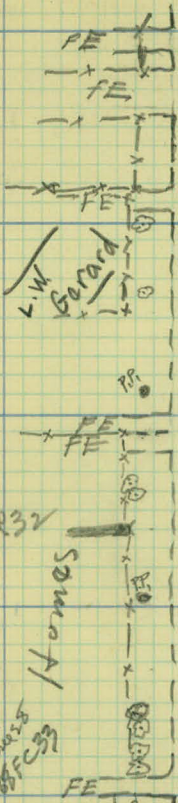
- +54 FC 48

- +83 stems 33

- +88 TP 26

R/10

- +80 gum pole 29



R/10

- +99 tree 30
- +86 TP 30

- +51 mb 18

R/10

- +91 mb 18

- +87 TP 20

- +15 mb 14

R/10

- +82 TP 18

- +78 wall 34

- +31 wall 38

- +38 mb 11

- +32 mb 11

R/10

- +53 TP 9 July 18-25

- +48 tree 30

- +36 paper 30

- +29 sign 21

R/10

- +94 mb 13

- +83 mb 13

- +51 TP 30

R/10

- +68 TP 18

- +39 mb 13 R/10

59

58

57

56

55

54

53

29
FMC-2-26-24
Proj-24

F/28 R/10

R/10

450 T.P. 25 FCH
R/10

+74 TP 21
+57 mbe 14
R/10

R/10

+79 tuc 37

+68 T.P. 29

R/10

Homes

+49 Lot Cor. 34
+46 tuc 30
R/10 +19 T.P. 30

+27 tuc 21
+05 tuc 21

+87 tuc 20
+69 tuc 18
+49 FCH
+46 tuc 14
+31 tuc 17
+17 tuc 14
+06 tuc 17 FCH

Some

TP28 R/10

CTP

FE

CTP
PP

FE
PP

FE

CTP

FE

FE

FE

PP

CTP

Street

Homes

Some

+45 T.P. 22
+42 mbe 15 PP/35
+40 mbe 15
+37 mbe 15
+35 mbe 15
+32 Lot Cor 34
R/10

+26 T.P. 22
+22 tuc 22
R/10

+84 mbe 15
+36 mbe 16
+23 tuc 21
+06 T.P. 21
R/10

+84 tuc 21
+44 tuc 20
+35 mbe 16
+09 tuc 21

+86 Lot Cor 36
+86 T.P. 26 R/10

+77 tuc 25
+80 mbe 19
+77 mbe 19
+74 mbe 20
+27 mbe 21
+15 mbe 20
+19 mbe 21

65

64

63

62

61

60

59

FMC 2-28-24
Proj 24

R 7

R 13

+91 PP 15
+107 FC 30
R 10

+71 FC 16
+42 FC 40

+199 P 22
R 10

+95-100 32 FC 36
+174 32
+86 100 32
+65 FC 39
42 FC 39
R 1

+92 904 pole 21
+86 FC 28
+84 P.P. 29

+24 FC 28
+103 TP 20
R 1

+90 100 34
+86 PP 21 FC 27

+50 R 15

R 18 F 25

+67 PP 20 FC 26

Homes

Summer

Geo. Boyce

Chester Lane

1111 Steps

5t.

Summer

+88 TP 35
+39 MB 18
+94 TP 19 R 10
+92 TP 19
+89 MB 15
+60 100 32
+53 100 32
+35 100 24
+19 100 24
+16 100 24
+18 FC 26
R 10 TP 16

+50 R 17
+28 TP 26
+22 MB 18
R 20

+86 wood steps 29

TP 29 R 19

+50 R 15

+41 MB 18

R 13

+82 TP 24

+60 100 15
+29 MB 15

71

70

69

68

67

66

lookout for water main
from Ballhairs Ant
to end of acct. 24

65

See Shearer
White Bear

FMC 2-28-24

Project

R18

R15

+58 PP31
+50 TPW1 R/15

+50 R/15
+71 mbr 13
+65 gwg Cor 230

R/10

R/10

+21 TP37

+26 PP32

R/5

Homes

FR

CTP

PP

CTP

FE

FE

R/13

Homes

+72 TP 24
+46 FC 22

+87 flag pole 32

+83 FC 20 FC/18

+76 PP13

+68 tree 14

+43 tree 18

+33 FC 24

+30 tree 2

+50 R/4

FE

FE

PP
Cable
had bit

+18 mbr 19
R/16

R/5 +13 tree 14

+92 tree 15

+72 tree 15

+70 FC 29

+50 R/2

+11 TP 18

R/3

Summer

FE

FE

CTP

PP

R/1

FE

CTP

+77 water main 17 ft
+50 R/2

from Birchwood

FR

+50 R/18
+106 mbr 20

R/19

+93 TP 32

+82 mbr 22

+50 R/18

Summer

+41 PP 39

+89 TP 40 R/17

+70 Gt Cor 390

+81 mbr 22

+50 R/18

+17 mbr 21

77

76

75

74

73

72

71

Final 7-28-24
Proj-24

R12✓

R14.

+16 hedge 21
water main 20
+18 cone steps 22
R17
+90 TP 24

+14 auger 11
+16 mlp 12 F/28
+22 P.P. 24
R12 F26

R16

+17 TP 24

+30 F 24
R10
+95 PP/16 F20
+70 gyp pole 17
+53 FC 19
+50 mlp 18
+50 pillar 20
+38 pillar 18

+57 TP/31
+50 R/10 PP 21

R14

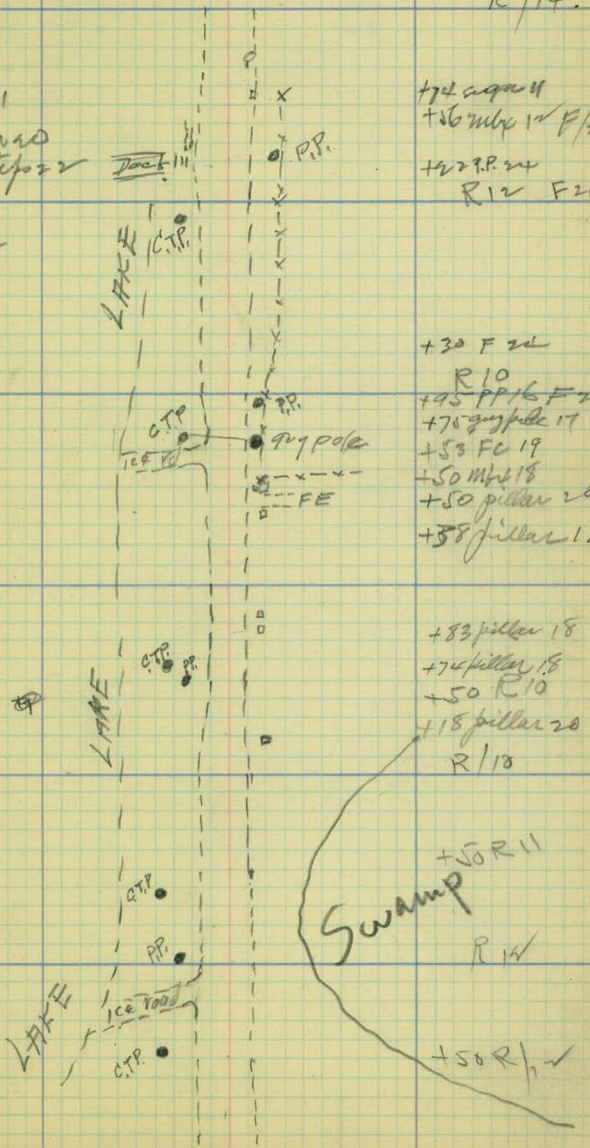
+50 R14
+39 TP 37
+04 PP 29
R14

+83 pillar 18
+74 pillar 18
+50 R10
+18 pillar 20
R10

+50 R11
R14

+52 TP 37
+50 R14

+50 R14✓



79

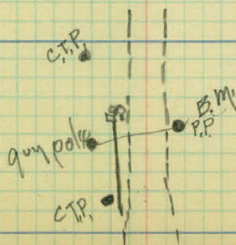
76

77

FMC 2-28-24

Proj 24

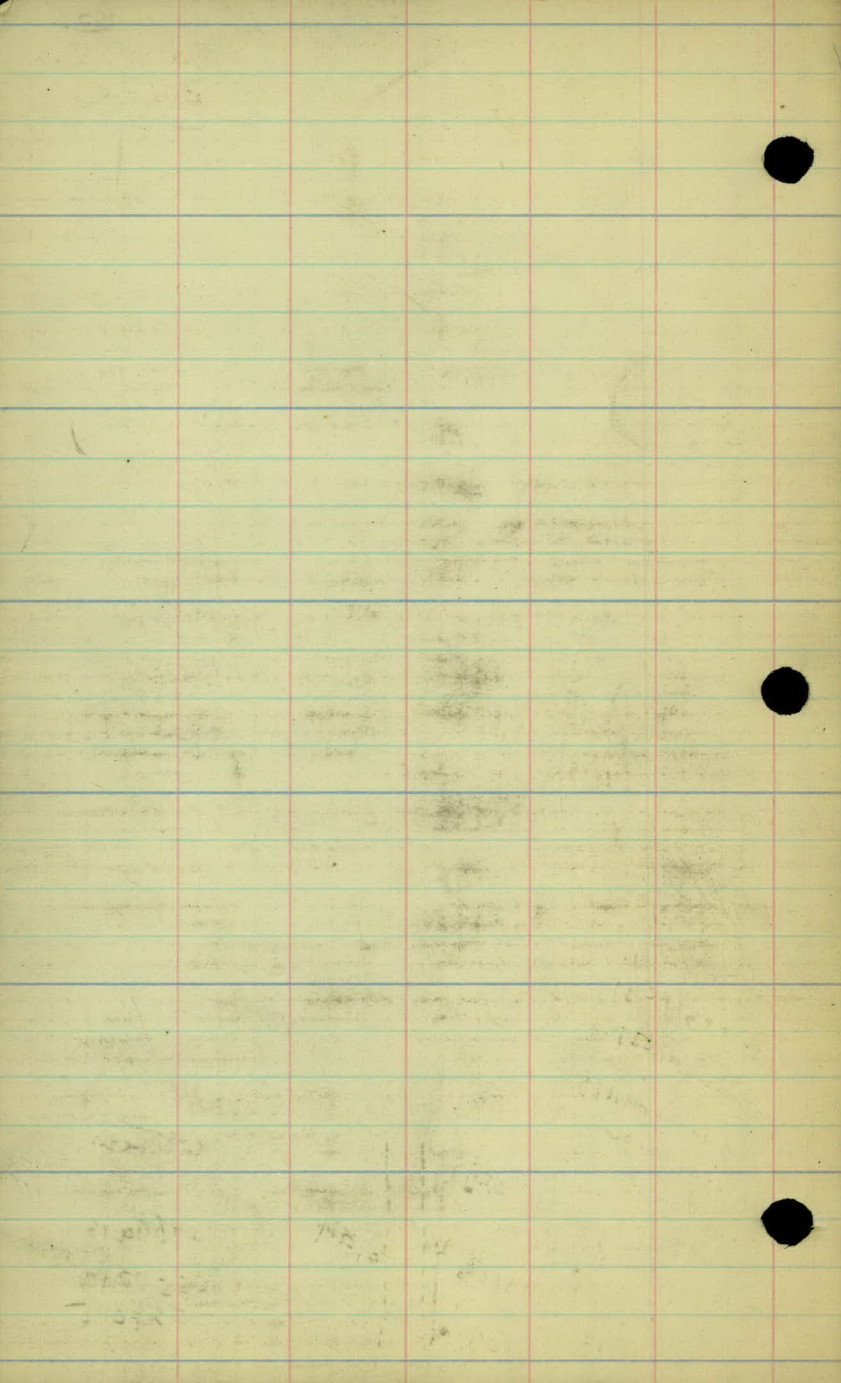
+91 TP 31 FC 37
 +78 standard 27
 +63 danger sign 18
 +45 guy pole 30
 +58 GP end 18
 +21 end hedges 33
 +13 TP 21
 +09 guard rail 13



+08 hedges 33

+98 hedges 18

+55 PP 13
+53 FC 15



Sta.

Elev.

0+00

33.6

0+50

33.3

1+00

32.6

1+50

32.7

2+00

32.8

2+50

32.7

3+00

32.5

3+50

32.5

4+00

32.7

4+50

34.0

5+00

34.5

5+50

35.9

6+00

37.3

L4. X-sections R1.

(35)
Fmc 2-29-24
Proj 24

+1.2	+0.3	-1.8	-2.0	-0.5	33.5	00	-1.2	-2.8	-3.8	-3.8
33	29	21	16	12	00	14	20	26	33	

+1.8	+1.6	+0.3	-1.4	-0.8	33.4	00	-2.8
33	28	22	14	10	00	15	33

+1.4	+2.0	+2.7	+2.5	+1.2	-0.2	00	+1.0	+1.0	00
33	20	17	13	11	50	00	9.0	27	33

-1.0.00	+0.3	00	00	00	00	-0.5	00
33	29.5	21	18	4	00	20	33

-2.0	-1.8	-1.8	-0.3	00	-0.7	-1.0	-1.0
33	30	19	15	00	10	15	33

-3.0	-3.0	-0.6	00	-0.8	-2.0	-2.5	-2.2
33.0	15.4	14.5	00	10	13	20	33

-2.5	-2.7	-0.5	00	-0.8	-2.9	-2.9
33	20.5	15	00	9	13.5	33

-1.0	-1.4	-1.6	-0.4	00	-0.5	-2.0	-2.8
33	23.0	17.5	14	00	11.5	15	33

-1.7	-1.7	-2.2	-1.7	00	00	-2.0	-2.4	-2.0
33	20	16.6	10.4	00	18	24	30	33

-0.3	-0.8	-0.7	00	-0.2	-0.7	-2.0	-1.8	-1.8
33	15.4	14.4	00	12	14	16	24	33

+0.5	00	00	-0.5	-1.2	+0.4	+1.0
33	14.5	00	6.5	12	18.6	33

+3.0	-1.6	-1.6	-0.8	00	-0.8	-1.6	-1.9	+2.4
31.5	21.5	17.0	12.6	00	11	15.4	22	33

+2.0	-0.6	-1.3	-0.7	-0.2	-0.8	-1.2	+1.6	+1.6
31	25	16	13	13.0	17	23	30	33

Sta.	Elev
6+50	38.4
7+00	39.4
7+50	41.1
8+00	42.8
8+50	44.2
9+00	45.6
9+50	47.3
10+00	48.9
10+50	50.1
11+00	51.3
11+40	52.1
11+50	52.3
12+00	53.2
12+50	53.7

Lt. Xsect. Proj 24 R1

-1.3 -1.0 -0.3 00 00 -1.5 -2.2 -1.3 -0.7
33 17 11 20 15 20 23 25 33

-2.0 -2.0 00 00 -0.3 00 -0.3 -0.7 -1.5 -1.5
33 23.5 12.5 00 10 12.5 16 21 29 33

-0.6 00 -0.2 00 -0.6 -0.8 -1.6
33 25 12.5 00 17 21.5 33

+0.7 00 00 00 -0.4 -0.7 -0.7
33 14 00 16 19 26 33

00 -0.4 00 00 -1.2 -0.8 -0.5
33 11.0 00 15 16 24 33

-2.2 -1.0 -0.2 00 00 -0.6 -1.0 -1.0
33 28 12 00 16 20 26 33

-2.2 -0.6 00 00 -0.6 +1.0 +1.0
33 15 00 16 21 26 33

-1.7 -0.6 00 00 00 +1.6
33 14 00 15 22 33

+1.0 00 00 +0.2 -0.8 +3.0 +3.0
33 12 00 15 19 26 33

+4.7 +2.0 +0.5 00 00 -0.6 -0.8 -1.2 +4.2 +4.2
33 20 17 11 00 15 17 22 29 33

+4.0 +2.8 00 -0.4 00 -0.7 -0.8 +1.0
33 21.5 15.5 12 00 14 16 33

00 -0.4 00 -0.7 -0.8 +1.0
33 11 00 14 16 33

00 -0.2 00 -0.2 00
33 11.0 00 19.6 33

00 -0.4 -0.2 00 -0.5 00 -0.4
33 13 10 17 20 33

Sta.	Elev.
13+00	54.3
13+50 x	54.6
14+00	55.0
14+50	55.3
15	55.6
15+50	55.9
16+00	56.1
16+50	56.2
17	56.3
17+50	55.9
18	55.5
18+50	54.8
19	53.8
19+50	52.4

Lt. Xsect Rht

(37)

pmc
2-29-24
Proj 24

20 -1.0 -0.6 20 -1.2 -1.0
33 14.5 10 20 16 33

-1.0 -0.6 -1.4 -1.1 -0.8 20 -1.6 -2.0
33 22 20 15 13 20 15 33

-1.5 -1.1 -1.7 -1.6 -0.7 20 -1.3 -1.6
33 21 18 15 12 20 15.5 33

-3.7 -3.5 -3.0 -0.8 20 -1.3 -1.2 -2.8
33 20 15 11.5 20 16 20 33

-2.0 -1.2 -0.8 20 -1.2 -3.2 -3.2
33 19 15 20 15 18.5 18.5 33

+0.4 -0.4 20 20 -0.3 -1.1 -1.1 -0.5 -0.7
33 18 15 20 12.0 16 18 21 33

-1.8 -0.6 20 20 -1.2 -1.4 20 20
33 15 20 12.0 15.4 19.4 23 33

-0.3 -0.2 20 20 -0.6 -0.6 +0.5 +1.0
33 14 20 14 16 20 23 33

+2.0 +0.8 -0.5 20 -0.4 20 +2.0 +2.0
33 17 13 20 11 17.5 23 33

+1.0 +0.2 -0.4 -0.5 20 -0.5 -0.5 20 +1.0 +1.2 +1.5
33 16 14 9 20 10 13 17.5 22 26 33

20 20 -0.8 20 -0.7 -0.6 +2.0 +3.5
33 27.5 11.5 20 12 16 21 33

+1.2 +1.7 +1.8 -0.7 20 -0.5 -0.6 +2.0 +2.4
33 26.0 19.5 13 20 11 13.5 17.0 33

+2.6 +2.0 -0.6 20 -0.4 -0.2 +1.3 +2.5 +2.5
33 26 15 20 8 10 13 30 33

-0.6 +0.3 20 +0.5 20 -0.7 +0.3 +1.2
33 22 20 9.5 20 4 6 33

Sta.

Elev.

20+00

50.9

20+50

50.0

21+00

48.7

21+50

47.4

22+00

46.2

22+50

45.0

23+00

43.2

23+50

41.3

24+00

39.6

24+50

37.8

25+00

36.6

25+50

35.6

26+00

35.7

Lt. Xsect Rt. Amc 22-24
Project

-3.0 00 +0.5 00 +0.4 00 -0.7 +0.5 +0.8 +1.2
33 30 19 16 24 5 7 20 33

-0.8 -0.6 -0.3 00 -0.8 -0.4 +3.5 +3.3
33 18 10 11 15 23 33

-2.8 -0.8 -0.6 00 -0.3 00 +5.0 +5.0
18 12 9 17 20 19 33

-6.0 -0.8 -0.7 00 00 +7.0 +7.0
23 13 10 21 30 33

-7.5 -1.3 00 +0.6 +0.8 +1.5 +6.0
26 14.5 17 20 24 30

-8.5 -1.8 00 +0.1 -0.3 +0.8 +6.2
33 21 13 16 19 30

-7.0 -1.3 00 -0.3 +14.0
29 18 1.8 14 34

-6.5 -0.8 00 +0.5 +4.5 +14.0
31 16 14 21 35

-5.0 -0.8 00 -1.2 +9.0
28 15 10 28

-4.0 -3.7 -0.8 -1.0 -3.0 -2.4 +2.2 +4.5
34 29.6 23 3.0 7.0 19 29 33

-1.0 -0.6 +0.5 -2.2 -2.9 -2.7
33 23 12 5.0 11.0 33

-0.6 -0.2 +0.2 -0.7 -2.0 -3.3 -3.3
33 19 10 5 12.0 16 33

-3.0 -1.6 -0.8 -0.6 -1.3 -3.0 -3.0
33 28 16 7 11 23 33

Sta.	Elev.
26+50	35.7
27+00	35.8
27+50	35.7
28	35.6
28+50	35.4
29+01.7	35.2
29+50	35.5
30+00	35.6
30+50	36.3
31	36.9
31+50	38.3
32+00	39.7
32+50	41.4
33	43.1

Lt. X-sect				PME 2-29-24			
				Prop 24			
-3.4	-2.1	-0.8	-0.6	-3.4			
33	14.0	11	11	33			
-3.5	-2.5	-0.9	-0.4	-1.5	-3.6		
33	17	8	12	21	33.0		
-4.2	-1.2	-0.1	-1.0	-2.0	-1.8	-3.8	
33	14	4	15	20	25	34	
-4.5	-2.2	0.0	-0.8	-2.0	-3.8		
33	15	5	16	21	37		
-5.0	-3.8	-1.4	-0.8	-2.2	-4.0		
33	15	8.0	17	23	36		
-3.8	-2.7	-1.0	+0.3	20	-2.0	-3.8	
33	17	6	7	16	24	33	
-4.3	-3.6	-0.7	-0.6	-3.8	-4.8		
33	17.5	10.4	13.5	22	33		
-4.0	-3.2	-0.7	-1.5	-5.8	-6.0		
33	21	11	11	20.4	33		
-2.5	-2.6	0.0	-1.1	-6.0	-6.5		
33	24	14	8.0	17	31		
-2.5	-2.0	+0.2	-0.5	-5.0	-5.5	-5.4	
33	22	16	7	16	21	33	
0.0	-0.5	+0.3	-0.4	-0.6	-0.6		
33	21.5	7	8.5	15	33		
+0.8	0.0	0.0	0.0	-1.7	-2.4	-3.0	
33	18	7	7	14	22	33	
+2.2	+1.6	0.0	-0.3	-0.7	-0.8		
31	23	21	7	12	33		
+3.3	+2.8	-0.4	-0.4	-0.6	-0.6	+1.6	+1.6
30	23	17	5	9	13	17	33

Sta.	Elev.
33+50	44.7
34	46.3
34+50	47.7
35+00	49.2
35+50	50.5
36+00	51.8
36+50	53.2
37+00	54.7
37+50	56.4
38+00	58.1
38+50	58.8
39+00	59.6
39+50	59.5
40+00	59.5

LT. X-sect. Rt. #mc 2-29-24
(40)

+5.0 +4.8 00 -0.6 -0.6 -0.7 +2.2 +2.2
33 22 16 7 13 16 20 33

+6.0 +4.5 -1.0 -0.7 -0.8 +2.0 +0.2
33 22 15 7 15 18.5 33

+3.0 +1.4 +0.2 00 -0.6 -0.7 +1.4 +0.5
33 22.5 19.6 13.4 7 14 18.5 33

00 00 -0.9 -0.5 -0.8 -1.2 -2.0
33 23 19 14 8.4 17.0 33

-0.7 -1.0 -0.5 +0.3 -1.0 -1.4 -1.2 00
33 19 11 6 8.5 16 21 33

-2.5 -2.2 -0.7 00 -1.1 -2.0 -1.6 -0.5
34.0 20 14 6 10 16 21 33

-5.0 -4.8 -1.0 -1.0 -2.5 -2.8 -2.0
33 21.5 13 10 17 23.5 33

-3.4 -3.5 -1.0 -1.2 -3.3 -2.6
33 22 14.5 9.5 18 34

-0.4 -1.0 -1.2 -0.8 -3.0 -3.0 -2.8
33 22 15 9 17 26 33.3

+2.4 -0.7 -0.6 -1.5 -1.0 -1.0
33 13 8.4 19 27 33

+5.0 -0.9 -0.9 -1.0 +2.2 +1.2
33 13 8.4 18.4 21 33

+5.0 -0.8 -1.2 -0.5 +3.0 +2.0
34 15 10 23 27 33

+5.0 +1.5 -0.5 -0.7 +4.2 +3.7
33 25 14 14 19 33

+5.0 00 -0.6 -0.7 00 +4.0 -3.1 +3.1
34.0 21.0 14 9 18 20 33

SLA

E/er

40+50

53.7 → 58.7

41+00

57.9

41+50

56.6

42+00

55.4

42+50

53.7

43+00

52.1

43+50

50.8

44+00

49.5

44+50

48.0

45+00

46.4

+30

46.0

45+50

45.9

+15

45.5

45+85

45.4

45

46+50

45.7

47+00

46.3

Lt

X-Sept Rt Pmc 2.29.24
Buj 24

+3.5	+4.0	00	-1.0	-0.8	-0.2	+4.0	+2.2
33	25	17	140	7	16	21	33

+1.0	+2.0	-0.6	-1.0	-1.0	00	+5.0	+4.2
35	27	23	15	10	15	23	33

-2.4	-0.8	-1.2	-0.9	00	+4.8	+5.0
33	24	21	11	17	22	33

-2.6	-1.8	-1.0	-0.8	-1.2	+1.8	+1.8
33	21	16	10	16	18	33

-2.0	-3.0	-0.8	-0.1	-1.0	-0.8	-1.8	-1.8
33	22	15	5	10	17	30	33

-3.0	-2.8	-1.0	-0.7	-3.2	-3.0
37	19	14	11	19	33

-3.3	-2.4	-1.0	-0.8	-3.3	-3.0
33	18	13	12	20	33

-1.5	-1.2	-1.0	-0.5	-0.6	00	+0.4	+0.4
33	17.5	13	11	14	18	28	33

00	+0.4	-0.4	-0.7	-0.6	+1.2	+1.2
33	24	22	13	14	18	33

+2.0	-0.4	-0.8	-0.5	+1.8	+1.4
33	27	12	14	190	33
+1.5	+1.5	00	-0.5	+2.0	+1.5
33	29	27	15	22	33

-2.6	-1.0	-0.6	-0.5	00
33	15	33	15	33
-2.4	-0.8	-0.5	00	
33	14	15	33	
-1.5	-1.0	-0.8	+0.7	+1.2
33	15	17	21	33

-2.5	-2.4	-0.8	-0.4	+0.3
33	19	13	14	33

-2.2	-1.2	00	-0.5	00	+3.0	+4.0
33	19	11	10	18	26	33

Sta
47+50

Elev.
46.8

48+00

47.2

48+50

47.7

49+00

48.5

49+50

49.5

50+00

50.5

50+50

51.2

51+00

51.9

51+30

52.3

52+00

53.1

52+50

53.4

53+00

53.4

53+50

53.4

54+00

53.3

(42)

Lt X Sect. Pr Pmc 2-29-24
Proj. int.

-2.4 33	-0.4 14	-0.6 10	+1.0 18	+2.5 27	+4.0 33
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+1.0 33	00 28	-0.6 18	+0.2 7	00 12	+0.5 18	+2.0 29	+4.0 35
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-1.0 35	-0.6 24	+0.3 6	-0.2 11	+0.6 15	+3.0 20	+4.0 29	+4.5 33
------------	------------	-----------	------------	------------	------------	------------	------------

-2.8 30	-0.1 6	00 15	+0.8 33
------------	-----------	----------	------------

-0.6 33	-0.7 22	-0.4 11	-0.6 9	00 14	+1.3 19	+2.0 29	+2.6 33
------------	------------	------------	-----------	----------	------------	------------	------------

+2.0 33	-0.4 16	00 4	-0.3 11	+1.2 18	+1.4 30	+5.0 33
------------	------------	---------	------------	------------	------------	------------

+1.0 33	-0.3 16	00 1	00 11	+1.5 22	+1.6 33
------------	------------	---------	----------	------------	------------

+2.0 33	-0.6 12	-0.7 10	-0.3 16	+1.0 21	+1.8 33
------------	------------	------------	------------	------------	------------

+3.2 33	+2.0 17	-0.8 14	-0.8 10	00 15	+1.4 33
------------	------------	------------	------------	----------	------------

-0.5 34	00 18	-1.3 12	-0.6 14	+0.2 21	+1.3 34
------------	----------	------------	------------	------------	------------

+1.3 33	+1.0 28	-0.4 11.0	-0.4 12	-0.5 20	+0.3 33
------------	------------	--------------	------------	------------	------------

-0.5 33	-0.5 21	-0.4 14	-0.8 10	-0.3 15	-0.3 21	+1.0 33
------------	------------	------------	------------	------------	------------	------------

+0.5 33	+0.5 26	00 14	-0.9 10.5	+1.0 33
------------	------------	----------	--------------	------------

-0.4 33	-0.6 18	-0.8 12	-0.3 13	+1.5 30	+3.0 33
------------	------------	------------	------------	------------	------------

Sta.

Elev.

54+50

53.1

55+00

52.2

55+50

51.2

56+00

50.3

56+50

49.5

57

48.8

57+50

48.2

58+00

47.6

58+50

47.4

59+00

47.1

59+50

46.9

60+00

46.7

60+50

46.8

61

46.1

(43)

Lt. X-Sect. Pt. Fmc 3-1-24
Project

+1.0	+0.4	-0.7	-0.5	+1.0	+3.4
33	18	16.0	12	28	33

-1.0	-1.0	-0.2	-0.9	-0.4	+1.4	+3.6
33	30	14	12	12	30	33

-1.7	-0.3	-0.6	+1.8	+4.0
33	12	12	31	34

-0.3	00	-0.6	-0.7	+1.2	+2.4
33	16	15	11	30	33

-1.0	-0.8	-0.8	00
33	15	9	33

-1.0	-1.2	-0.8	-1.0	-1.2
33	15	13	18	33

-3.3	-1.3	-1.1	-0.8	-1.0
32	20	13	12	33

-4.2	-2.0	-1.5	-0.6	-1.0	00
33	24	15	11	18	33

-2.4	-1.3	-0.2	-0.6	+0.4
33	17	14	17	33

-2.0	-1.7	-1.4	-0.4	-0.2	+1.2
33	26	14	10	15	33

-2.4	-1.4	-1.2	-0.4	+1.6
33	14	12	14	33

-3.4	-1.7	-1.2	00	-0.2	+0.3	+2.8	+2.8
30	12	10	16	19	24	30	33

-3.1	-2.5	-1.5	-1.0	00	+0.5	+5.0
33	25	8	6	19	25	35

-3.0	-1.8	-0.3	00	+0.7	+1.0	+4.0
33	24	16	9	21	29	33

Sta	Elev.
61+18	46.0
61+25	46.0
61+40	45.9
61+50	45.9
62+00	45.7
62+50	45.5
63+00	45.1
63+50	44.9
64+00	44.7
64+50	44.6
65	44.5
65+50	44.7
66+00	44.8
66+50	44.6

Lt. X Sect. RT time-3-1-24
 44.
 2-24.

-3.0 -1.8 -0.7 00 +0.7 +1.0 +4.0
 33 24 16 9 21 29 33

-1.6 -1.2 -0.2 +0.4 +1.0 +2.0
 33 26 9 9 20 33

-0.8 +0.3 -0.5 +0.3 +0.8 +1.6
 33 9 5 11.0 26 33

-0.8 +0.3 -0.5 -0.3 +1.0 +3.8
 33 9 5 11 29 36

-1.0 -0.6 -0.5 +3.5
 33 7 24 33

-2.8 -1.8 00 -1.0 00 +2.0
 33 17 6 19 26 33

-4.4 -3.0 -0.4 -0.8 -1.0 -0.6 +0.8
 33 21 13 14 15.5 25 33

-3.8 -3.8 -2.4 -0.2 -0.8 -1.2 -0.7
 33 21 19 13 11 14 33

-3.0 -3.0 -2.5 -0.3 00 -0.4 -0.5
 33 30 18 11 11.5 28 34

00 -0.4 -0.4 +0.5 00 00 00 +1.2
 33 14 7 5 15 19 27 33

00 +0.8 -0.4 +0.7 +0.4 +0.3 00 +2.1
 33 10 8 6 15 21 26 33

+1.6 +2.3 00 +1.1 +0.6 00 +0.2 +2.0
 33 9 5 9 18 22 26 29

+0.8 +0.2 -0.8 -0.4 +0.8 00 -0.6 -0.4 +0.4
 33 11 8 5 8 16 20 23 26 33

-0.7 -0.5 -0.8 -0.3 +1.2 +1.0 -0.4 -0.4 +2.0
 33 9 6 4 9 18 23 26 31

Sta.

Elev



67+00

44.7

Sta 66+50 to 68+50

ok curve carefully

67+50

44.1

may hurt prop. on Lt.

68+00

44.3

68+23

44.2

68+31

44.2

68+40

44.1

68+48

44.1

69+00

(dwy ^{44.0} Lt.)

69+50

42.2

70+00

40.4

70+50

38.8

71+00

37.4

71+50

35.5

Lt. X-Sect. Rt. Fmc 3-1-24
Proj 24.

-1.3 -0.5 -0.8 -0.4
33 11 9 6

+1.0 -1.3 0.0 +0.4 +2.4
8 20 24 27 31

-2.2 -0.6 -0.4
33 22 5

+1.2 +0.8 +0.2 +1.0 +4.0
10 18 23 28 34

-1.4 -1.0 +0.2 0.0 -0.8
33 29 17 12 10

+0.3 +0.3 +0.5 +4.5
16 20 25 32

-1.7 +0.8 +0.5 -0.8
33 22 12 9

+1.1 +1.2 -1.0 +5.0
13 21 28 37

-1.7 +0.8 +0.5 -0.8
33 22 12 9

+2.5
33

+1.0 0.0
33 10

+2.5
33

+1.0 0.0
33 10

+0.7 +0.8 +1.2 +1.8 +5.5
7 17 25 33 34

+3.8 +0.4
33 12

-0.4 -0.6 0.0 +3.2 +7.2
12 15 18 27 31

+3.5 +2.0 -0.7 -0.4
33 20 13 8

+0.2 -0.4 0.0 +4.0 +7.0
11 15 18 28 33

+3.7 +2.6 -0.3
36 22 16

-0.5 0.0 +2.3 +2.4
13 17.5 30 33

+0.8 +0.5 -0.4 +0.2
35 24 18 14

-0.7 -1.0
14 32

-2.2 -2.0 -1.3 0.0
34 31 29 17

-1.1 -4.2 -5.0
16 26 31

-1.7 -1.0 +0.3 +0.4
33 29 17.5 4

-0.6 -3.2 -3.4 -4.4 -4.8
11 21 25 28 33

sta.

Elev
4

72+00

35.3

72+50

35.3

73+00

35.2

73+50

35.0

74+00

34.9

74+50

35.0

75+00

35.2

75+50

35.6

76+00

36.0

76+50

37.5

77

39.1

77+50

40.6

78

42.9

(463)

Lt. X-Sect. Rt. Fine-3-1-29

Proj-24.

-1.7	-1.0	-0.9	-0.6	-0.7	-2.8	-1.9
33	29	18	15	12	22	33

-3.5	-3.1	-1.3	-0.3	-1.1	-1.0
32	27	20	12	22	33

-3.7	-3.4	-1.2	-0.6	-1.3	-1.4	-0.5
35	24	17	11	17	23	34

-3.3	-2.7	-1.3	-1.0	-1.7	-0.6
32	19	14	14.5	20	32

-3.3	-3.0	-1.0	-1.0	-1.5	-1.7	-0.4
33	21	14	13	16.4	25	34
				16		

-3.4	-2.7	-1.1	0.0	-0.9	-0.7
33	16	11	13.5	21	33

-3.6	-2.8	-0.8	-0.3	-1.8	-2.0
32	20	15	10	17	33

-5.0	-3.8	-0.7	-0.3	-2.3	-2.6
32	22	15	11	22	33

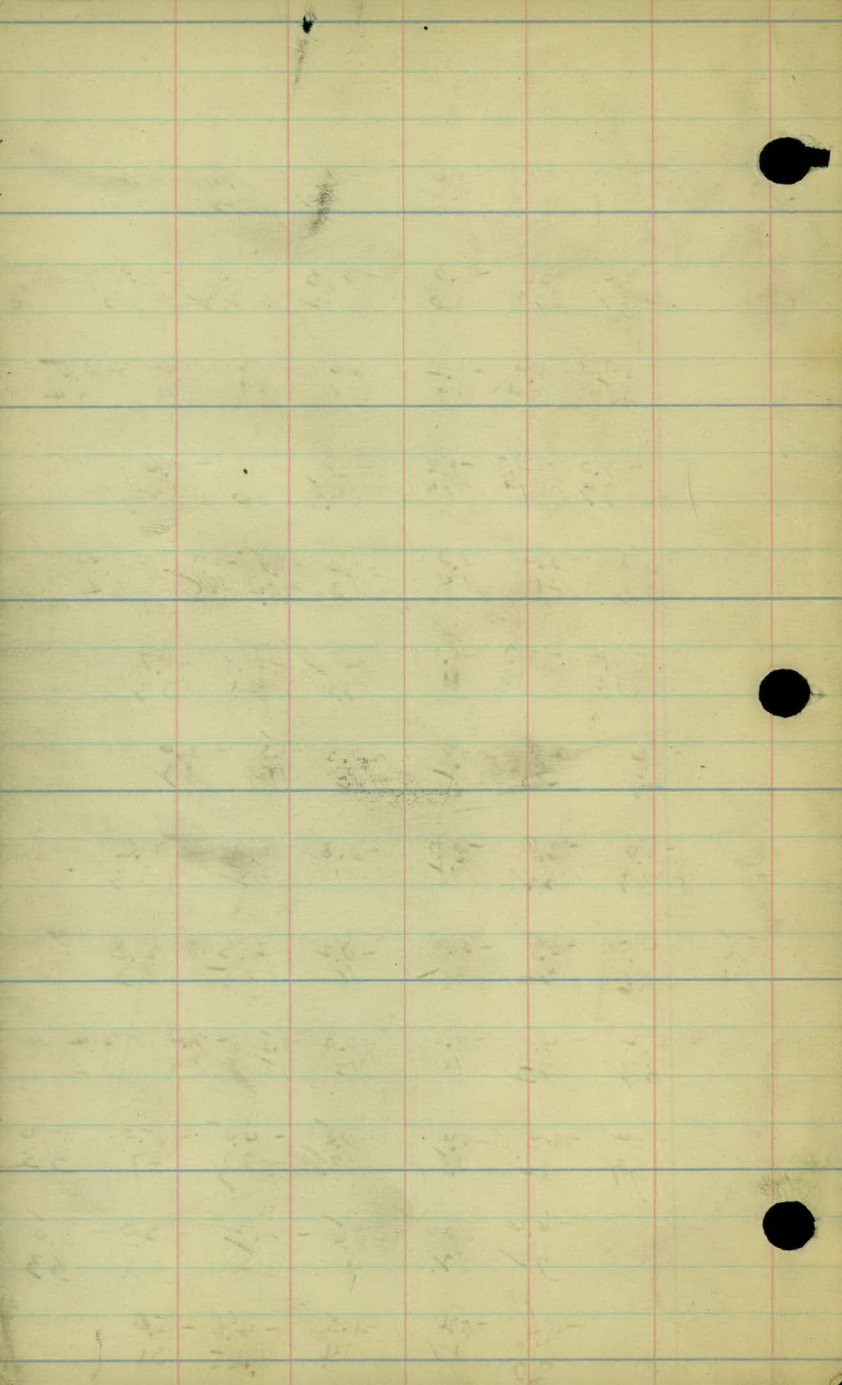
-5.5	-4.0	-0.8	-0.2	-2.3	-2.8
34	26	20	11	25	33

-5.2	-4.0	-0.5	-0.3	-1.8	-2.4	-2.4
32	23	14	12	18	29	33

-6.4	-6.4	-0.4	-0.5	-4.5	-5.0	-5.0
32	26	11.5	13.5	23	27	33

-6.6	0.0	-0.5	-2.2	-3.0	-3.5
32	12.0	9	15	18	33
			FC		

-4.4	-4.5	-0.4	-1.5	-4.8	-5.0
33	20	12	14	25	31



upper end. 30' lower than sta 6+75
low line.

12" clay pipe 36 ft.

6+75

cond. O.K.



upper end
14 ft lower Sta 5
IP 8" clay pipe 20 ft.

prage FE

pot hole

no drainage

no drainage
pot hole

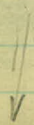
sta. 1+50

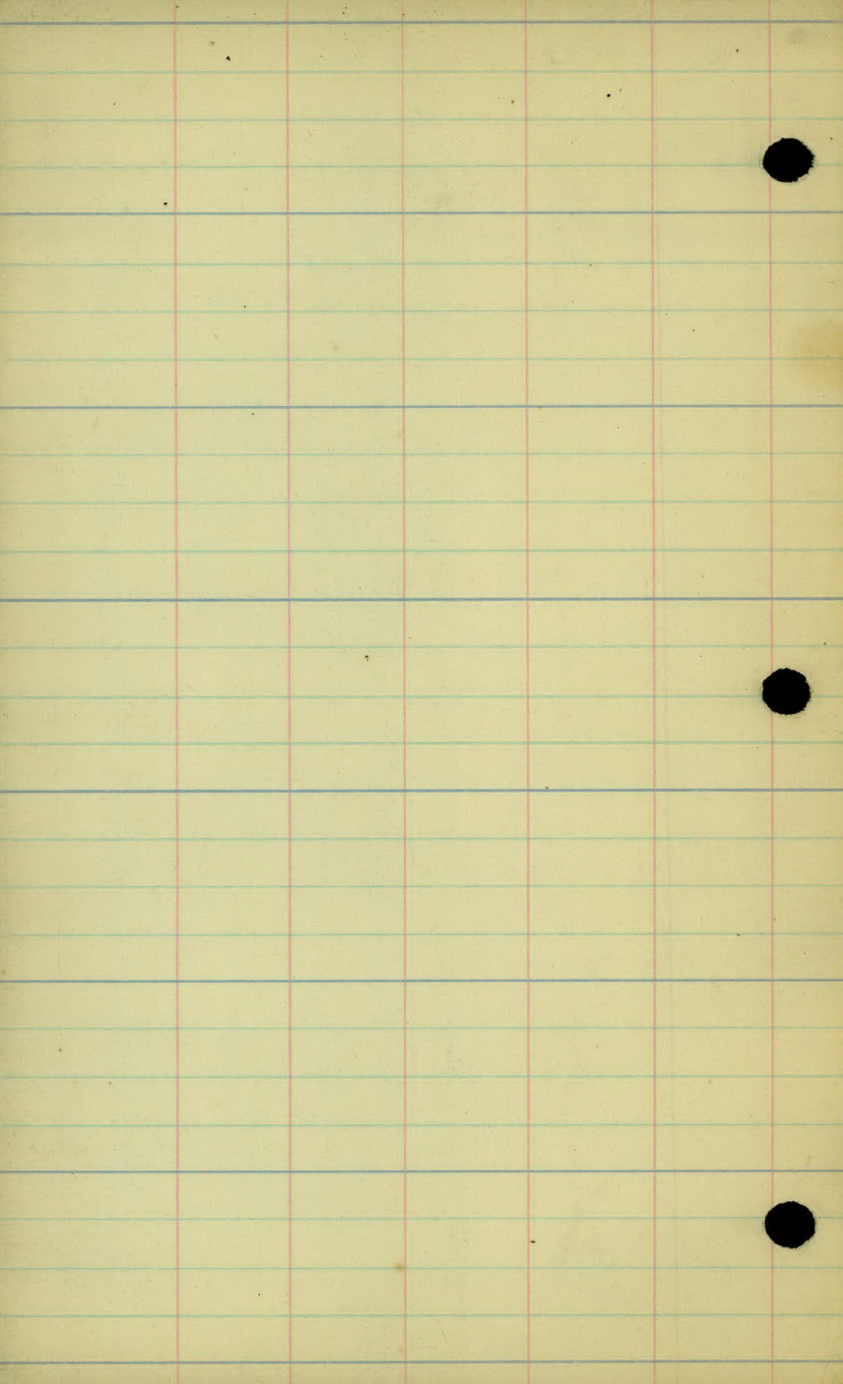
IP 50' 12" CM

Condition O.K.

End of culvert level.

3.2' lower Sta 1+50





Lt

X Sect.

10 ft.

(29)

open ditch
1/2 mile

19+00

Recommend.
24" cul. 14+60
see X sect.
Sta 1-2

↓ ↓

cul. 1 ft
below 10+50

FE

10" cul 6 ft

cond.
bent.

10+45

cul. 2 ft
below Sta 10

FE

10" cul 20 ft

condition
OK

~~Sta 10~~

9+85

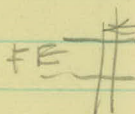
sta

LH

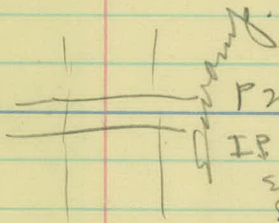
X Sect.

TCT.

(30)

I.P. 10" cm 30 ft
Cond ok.Bottom of Culv
upper end ok below
Sta 34+00Sta 32+30 Install
Culv F.E.L.T.

Lake

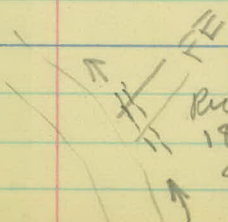


P 24" equalizer

I.P. none

see X sect.
Sta 30+00
excavate ditch
for same

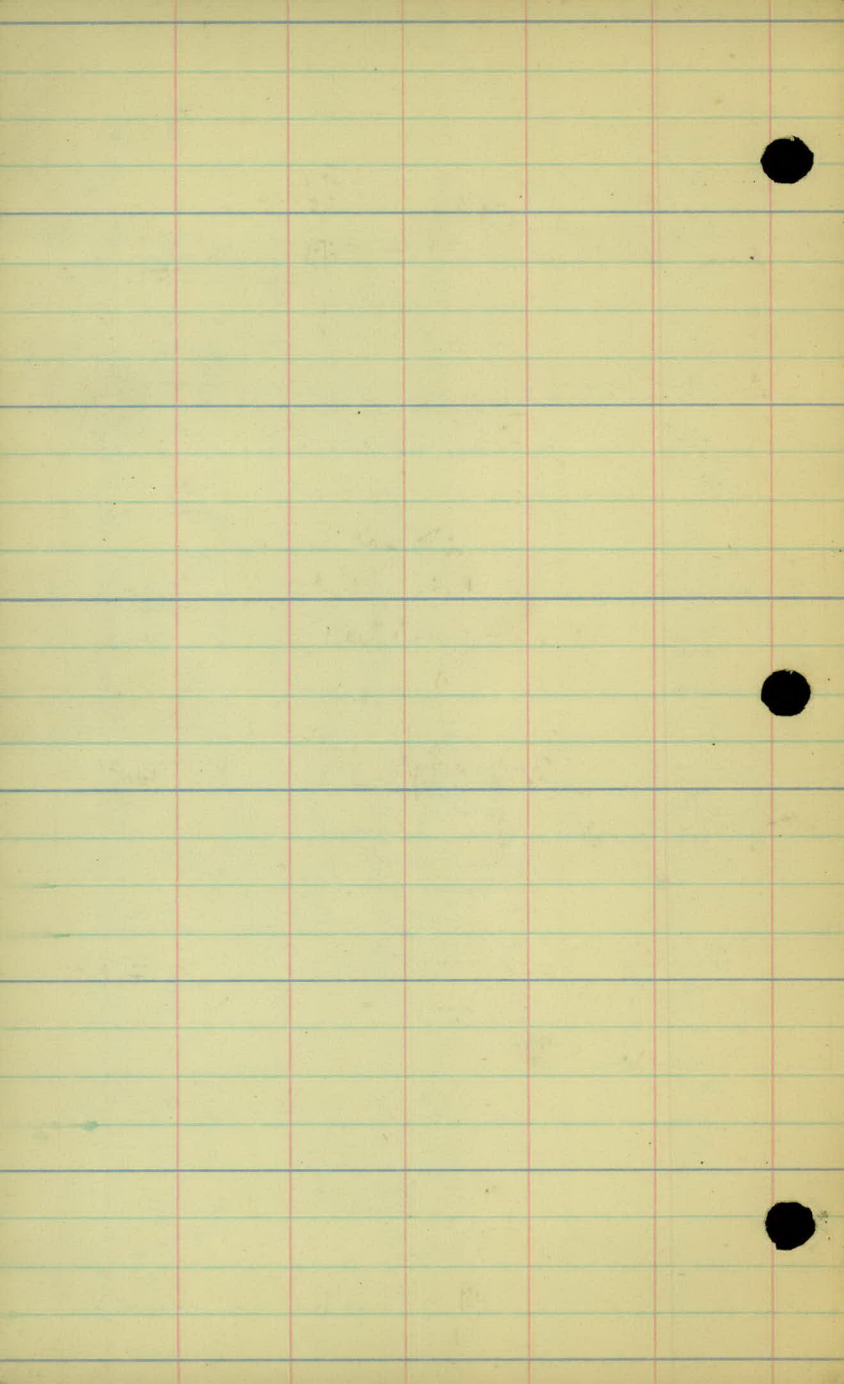
Swamp

Sta 25 open
ditch to Rt.No Culv I.P.
Recommend

18" culv. 30 ft.

Sta 22+35

Rt.



Place
2-culv. 18"
X road

← Bellaire Ave. →

45+40

open up
ditch Rt.
43+50
pot hole

41+70 FE
Place culv 15"

40+30 FE
10" culv 20'
lower end
1st lower
Sta 40+00

Summit

40+00

39+50 Lt. 20'
culv required

FE 11"

37+70

P 15" culv 21'

FE 10" culv 20'
lower end
1st lower
Sta 35+00

34+65

sta 58 drainage
leaves Rd. Lt.

Sta 57 + 60 Rt. Place 30 ft 18" culv. End.

Sta 56 + 75 place FE culv Lt.

Sta 56 + 20 place FE culv Lt.

Sta 55 + 50 place FE culv Lt.

Sta 52 + 50 - 10" cm 18 ft Lt.

lower end 20 ft below 55 + 50

Sta 54 + 35 Lt 10" cm 18" End O.K.

lower end 20 ft. below 54 + 50

No Street

Street 53 + 50

Sta 52 + 50 to 53 + 00 Lt 15" culv.

Sta. 52 + 20 Lt place 15" culv 2 ft.

Sta 50 + 80 Rt place 15" culv 2 ft.

place
18" culv.

Load to
Paradise

68+60 Lt. 10" cm 20 ft in place (place 15")

68+40 Rt. FE cul. 15"

67+90 Lt. place FE cul 15" (10" cm 18 ft) in place

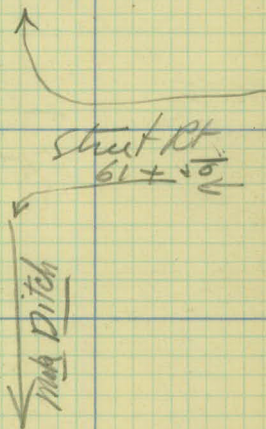
67+40 place FE cul. 15" Lt

67+00 FE Rt. 10" cm 16 ft. 3 ft below Rd.

10" cm 16 ft. 3 ft. below Rd.
{ Sta 62+85 15" FE cul. Lt.

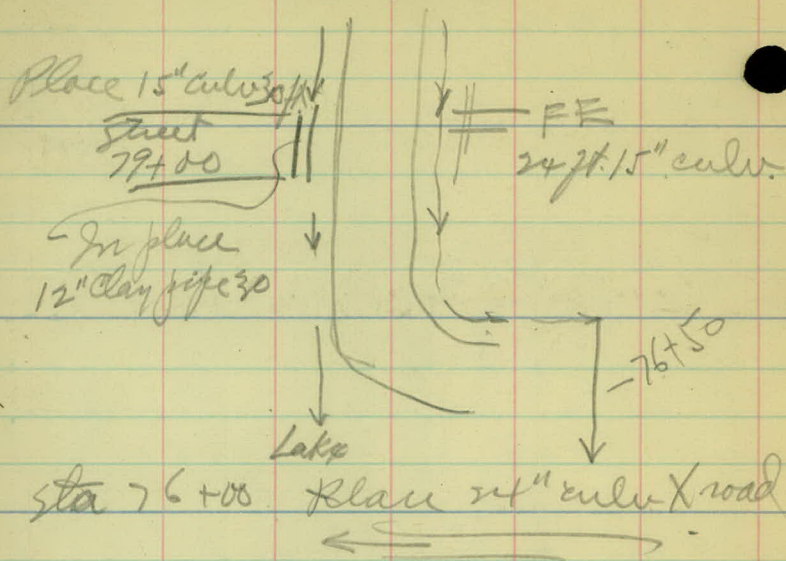
Sta 64+00 Lane on Rt. ↑
30 ft. 15" cul. ↑

Sta 62+00 place FE cul 15"

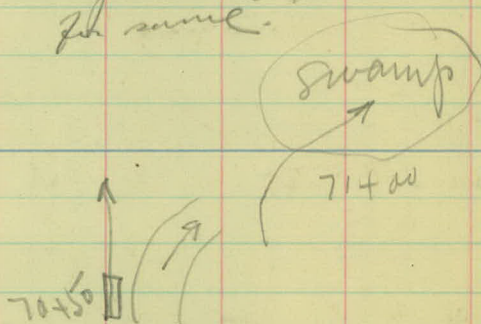


←
Sta 58+30 X Road 12" clay pipe.
40 ft. in place lower end
4.6 ft. below Sta 58+00

RR track



71+50 Place culv. 24" X road. Swamp
open ditch on lower end for runnel.

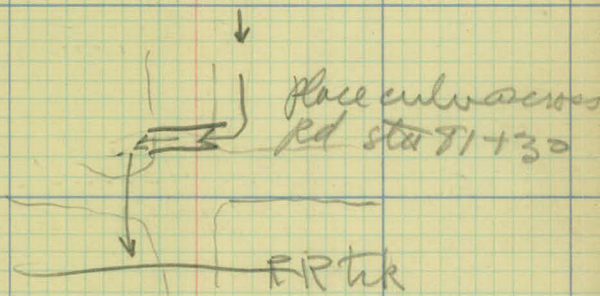


70+50 Lt. 14 ft. 12" am place 18" 1 ft below top of road.

69+50 Lt. place 30 ft. 15"

85+70 Rt. F# 15" In place 10" vit.
14 ft.

In place 30 ft 10" vit.
85+70 Lt. street 30 ft 15" culv.
84+00 Rt. F# place 15" culv.



Sta 80+50 - 81+25 Lt. place 18" culv.
approx 20 ft 12" clay pipe in place.

Sta 77+50 Install culv. across
road. 54"

100 + 50 Lt 24 ft 15" Cm Required

94 + 50 Lt 30 ft Cm 15" Required

92 + 00 Rt ~~24~~^{15"} culv. Required

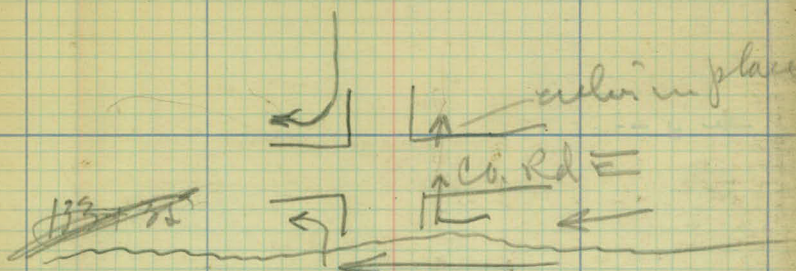
89 + 50 Lt. 24 ft 12" vit.
place 15"

89 Rt. In place 40 ft. 12" Cm.
place 15" Cm.

88 + 00 Lt 30 ft. 12" vit
place 15" Cm.

87 + 50 Rt 10" vit 16 ft in place -
place 15" Cm

86 + 50 Lt. In place 12" vit 24 ft.
place 15" culv.



128+10 - 15" Vit 50 ft. Condition ok.
Place 24" culv. Equalizer

123+20 Rt. FE 24" 15" cm

115+20 Rt FE 24" 15" cm

111+50 Lt 15" culv FE 24 ft.

109+50 place 24" X road equalizer

Sta 104+50 place 24" X road.
equalizer

