

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Plan Survey

FROST AVE. EXT.

From Arcade St. To Frost Ave.

Road Acc't. No. 10

Date Filed 12-31-29

File 30-10

PROJ. 30-10 A

ALIGNMENT

FROST AVE. EXT.

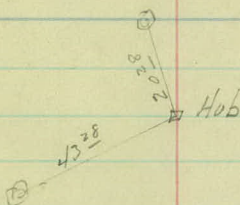
to Arcade St.

Proj. 30-10

~~Copied~~

Sta	Point	Δ Lt	L Rt		
89+39.27	P.T.		13°-02'		
89			12°-15'	✓	
+50			11°-15'	✓	Δ -26°-04'
88			10°-15'	✓	D-4°-00' R
+50			9°-15'	✓	T-331.64
87			8°-15'	✓	L-651.67
+50			7°-15'	✓	R-1432.69
86+19.24	P.I.				
86			6°-15'	✓	
+50			5°-15'	✓	
85			4°-15'	✓	
+50			3°-15'	✓	
84			2°-15'	✓	
+50			1°-15'	✓	
83			0°-15'	✓	
82+87.94	P.C.		0°-00'		
79+33.94	P.O.T.				
78+33.9	P.O.T.				
67+73.72	P.T.				

~~Copy~~



⊥ S.T.H. № 1

Sta. Point Alt. S.Rt.

97-66²⁵ P1

90-57⁶⁰ P.O.T

P.I. 5+28.6

17°08'

Copy

30/144

Nail in top G.R. Post

21/12

Nail in top G.R. Post

Front Ave

Road Map Survey

12" Oak

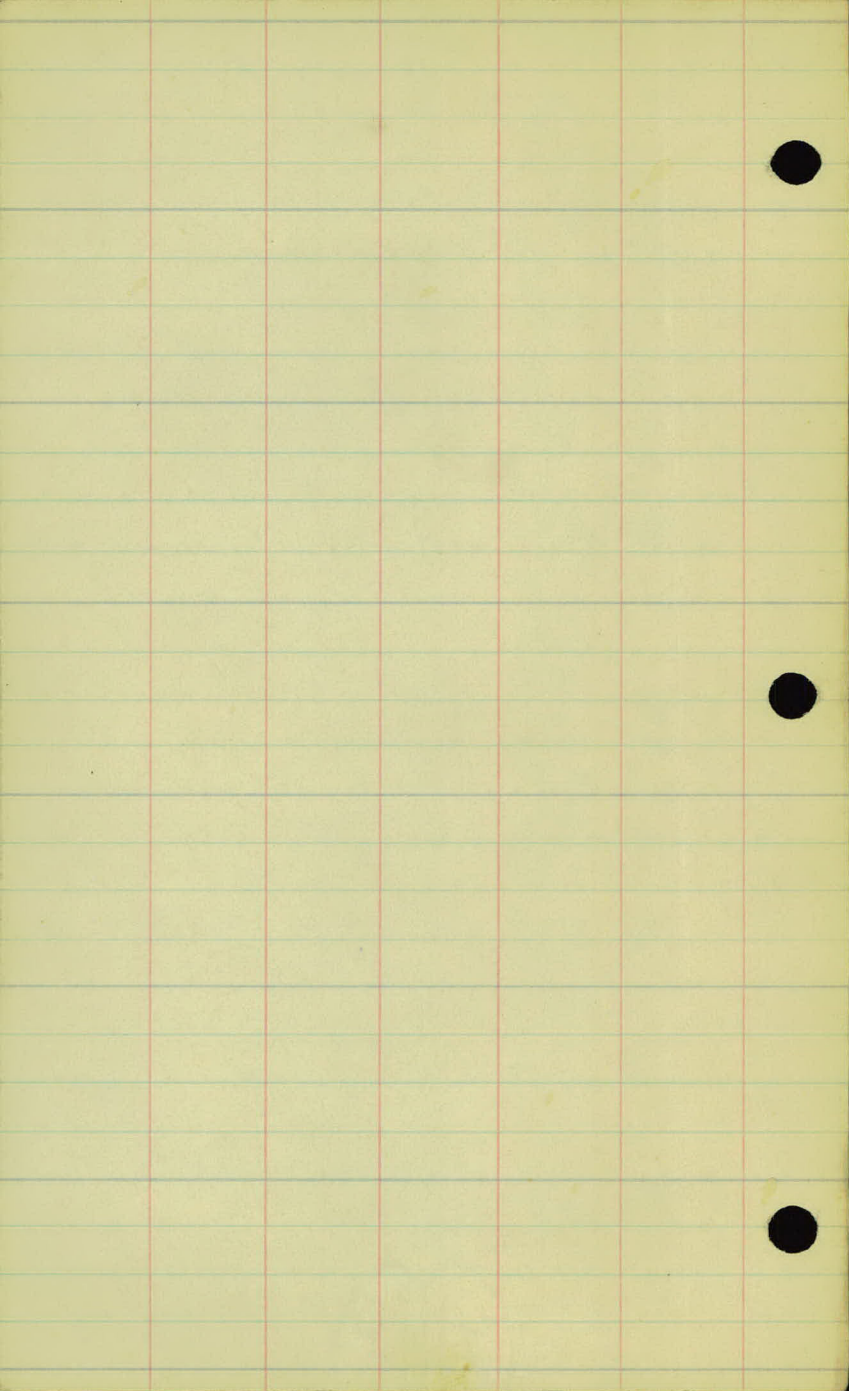
⊙

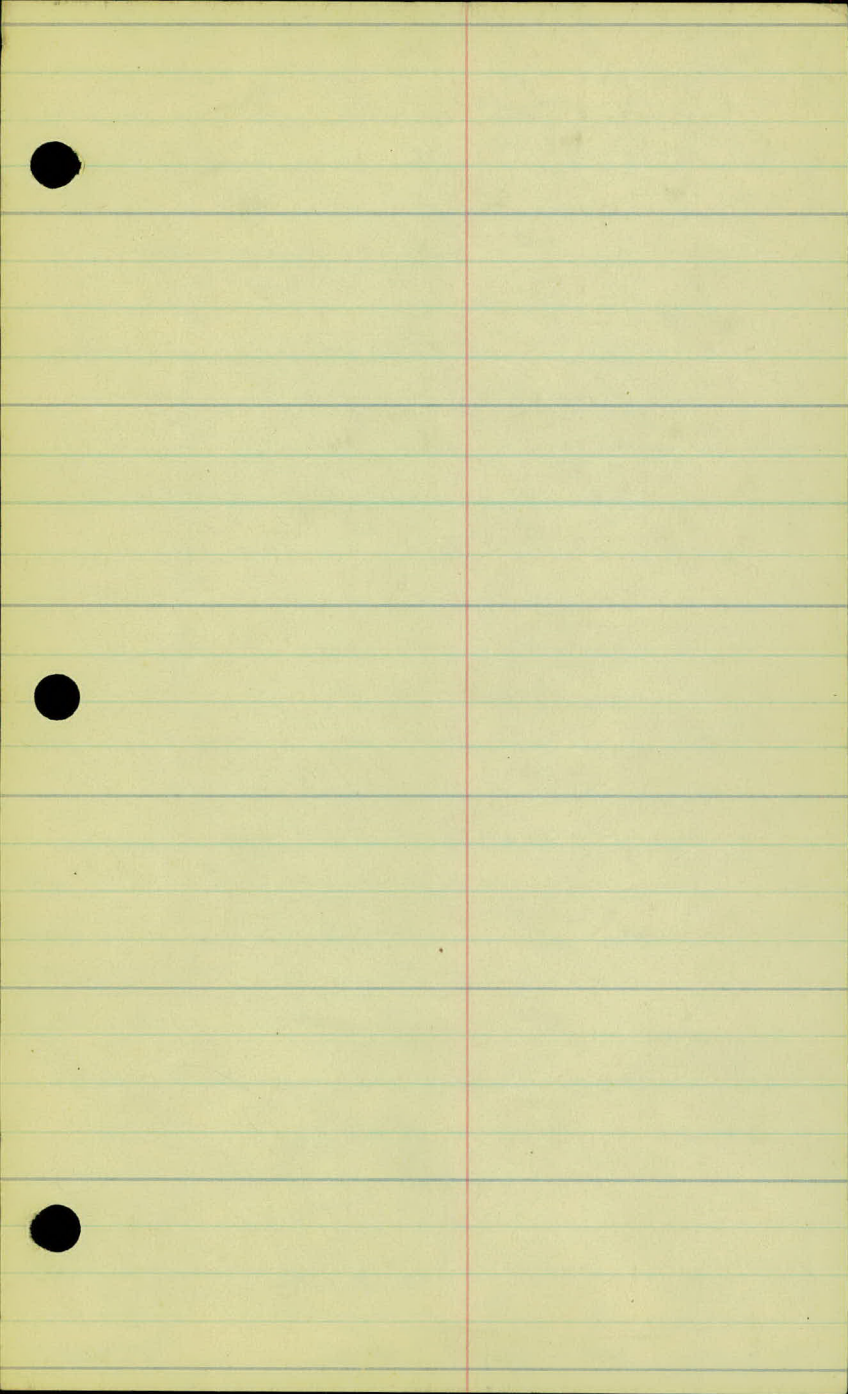
32°45'

⊙ 26°25'

12" Oak.

0700 Nail in Pav.





H.I.

Copy

BM	1.44	882.14	1.44	880.73	880.70
67400				4.74	77.4
68				6.12	76.0
69				7.54	74.6
70				8.84	73.3
71				9.30	72.8
72				8.78	73.3
73				7.50	74.7
BM.	9.79	884.06	7.87	874.27	874.27
74				7.49	76.6
75				5.41	78.7
76				3.35	80.7
77				1.19	82.9
	10.64	893.51	1.19	882.87	
78				7.75	85.7
+11				7.45	86.0
+33 94				6.69	86.8
+57				6.40	87.1
	2.74	891.26	4.99	888.52	888.52

PAYNE AVE CUT-OFF
EXTENSION.

X SEC. FROM STA. 78133⁹⁴ TO STA. 97166

B.M.	3.42	891.94		888.52
78+33 ⁹⁴	2	MARKER ST.		86.83
78+57		EDGE OF PAVE		87.1
78+75				86.3
79+00				85.0
79+50				83.7
80+00	7.69	890.92	8.71	883.23 ✓
80+50				82.6
81+00				82.5
81+50				82.8
82+00				83.3
82+50				83.6
83+00				84.5
83+50				84.9
				83.2
	7.06	888.35	9.63	881.29 ✓

00 07 61 49 50 5.34 5.02 502 61 97 147
60 56 44 39 33 32 16 5.11 16 26 33 60

03 41 42 38 414 430 430 4.28 53 8.8 123 15.6 142
60 53 50 46 39 38 29 16 4.80 8 18 36 50 60

00 39 59 346 378 381 3.75 4.18 75 11.5 141 15.8 180
60 58 50 46 45 31 29 13 5.6 13 27 42 50 60

2.7 2.68 2.74 3.29 5.7 5.3 11.4 11.9 15.0 16.0 18.5
60 50 46 29 15 3 6.9 18 29 44 50 60

1.97 2.6 5.2 64 70 68 11.6 14.2 16.1 20.2
60 50 37 18 14 8 8.2 19 26 42 60

2.1 2.7 3.7 63 56 5.9 5.9 10.7 12.2 15.2 18.2 19.7
60 50 46 32 24 17 11 8.3 13 21 36 50 60

1.6 3.1 61 36 60 12.4 15.6 17.6 20.4
60 50 32 22 13 8.4 21 38 50 60

0.6 1.9 3.3 5.2 48 5.2 11.9 14.9 17.1 19.9
60 50 44 32 27 11 8.1 21 37 50 60

0.7 1.9 3.6 5.2 48 4.9 5.0 12.8 14.9 16.3 18.3
60 50 40 30 27 18 10 7.6 24 41 50 60

0.8 1.9 2.8 5.3 49 4.9 5.3 9.0 11.7 15.5 17.1
60 50 42 30 25 17 8 7.3 10 29 50 60

0.0 0.9 2.5 4.9 48 5.2 9.3 11.1 16.1 12.1
60 50 37 26 20 4 6.7 12 22 50 60

10.5 1.0 2.1 3.1 60 53 63 60 7.9 12.8 14.4 16.2 17.4
60 50 38 32 19 14 2 1 6.0 12 27 44 50 60

0.4 1.6 4.2 7.4 7.5 1.8 9.1 11.0 14.0 15.2 17.0
60 50 29 13 9 7.7 11 16 26 44 50 60

888.35 ✓

84+00

81.6

84+50

80.4

85+00

79.7

85+50

81.4

86+00

83.6

86+50

85.9

10.78 897.00 ✓ 2.13 886.22 ✓

86+50

85.9

87+00

88.0

87+50

89.6

88+00

90.0

88+50

89.4

89+00

91.0

89+40

95.7

3.07 888.35 ✓ 1.22 895.78 ✓

<u>20</u>	<u>2.4</u>	<u>3.1</u>	<u>4.2</u>	<u>7.1</u>	<u>6.3</u>	<u>6.5</u>	<u>9.0</u>	<u>11.1</u>	<u>12.7</u>	<u>15.3</u>	
60	50	33	19	7	3	66	11	42	39	50	60

<u>10.8</u>	<u>10.2</u>	<u>9.3</u>	<u>9.2</u>	<u>9.5</u>	<u>7.5</u>	<u>7.7</u>	<u>12.1</u>	<u>15.1</u>	<u>16.1</u>	
60	50	35	21	9	8.0	2	14	30	50	60

<u>9.5</u>	<u>9.2</u>	<u>8.5</u>	<u>8.1</u>	<u>8.7</u>	<u>7.7</u>	<u>10.8</u>	<u>10.8</u>	<u>12.2</u>	<u>14.2</u>	<u>15.8</u>	
60	50	38	23	9	8.7	4	16	25	37	50	60

<u>8.7</u>	<u>4.0</u>	<u>4.8</u>	<u>4.4</u>	<u>5.0</u>	<u>4.0</u>	<u>5.3</u>	<u>6.8</u>	<u>6.6</u>	<u>10.0</u>	<u>12.4</u>	<u>14.9</u>	
60	50	44	31	26	19	9	7.0	10	19	33	50	60

<u>7.2</u>	<u>7.2</u>	<u>0.5</u>	<u>1.7</u>	<u>4.5</u>	<u>5.6</u>	<u>4.5</u>	<u>4.8</u>	<u>7.5</u>	<u>10.6</u>	<u>13.1</u>	
60	50	24	13	3	4.8	8	15	23	33	50	60

<u>3.5</u>	<u>2.6</u>	<u>2.9</u>	<u>5.2</u>	<u>6.7</u>	<u>3.7</u>	<u>10.1</u>	<u>12.3</u>	
4	2.5	19	20	27	35	74	50	60

<u>4.0</u>	<u>4.4</u>	<u>5.0</u>	<u>6.3</u>	<u>8.4</u>	<u>8.0</u>	11.1
60	50	40	25	18	13	

<u>2.5</u>	<u>3.0</u>	<u>4.1</u>	<u>5.8</u>	<u>9.0</u>	<u>9.2</u>	<u>12.0</u>	<u>18.0</u>	<u>19.9</u>	
60	50	34	16	10	9.0	13	23	50	60

<u>8.4</u>	<u>2.5</u>	<u>2.7</u>	<u>3.1</u>	<u>4.9</u>	<u>7.0</u>	<u>7.3</u>	<u>7.8</u>	<u>10.1</u>	<u>12.4</u>	<u>16.2</u>	<u>18.8</u>	
60	51	50	41	23	19	16	7.4	7	13	29	50	60

<u>12.0</u>	<u>2.3</u>	<u>4.2</u>	<u>6.8</u>	<u>6.2</u>	<u>10.0</u>	<u>12.6</u>	<u>14.4</u>	<u>18.0</u>	<u>20.0</u>	
60	50	31	24	15	7.0	19	24	38	50	60

<u>5.8</u>	<u>0.7</u>	<u>1.8</u>	<u>6.2</u>	<u>5.8</u>	<u>6.0</u>	<u>7.2</u>	<u>9.6</u>	<u>11.6</u>	<u>15.1</u>	<u>16.6</u>	<u>19.2</u>	
60	53	46	33	27	17	8	7.6	8	18	38	50	60

<u>4.3</u>	<u>2.9</u>	<u>7.7</u>	<u>7.2</u>	<u>4.4</u>	<u>4.0</u>	<u>6.0</u>	<u>9.5</u>	<u>12.3</u>	<u>15.3</u>	<u>17.7</u>	
60	56	38	21	13	4	60	4	19	32	50	60

<u>8.7</u>	<u>7.3</u>	<u>9.7</u>	<u>8.0</u>	<u>0.0</u>	<u>0.8</u>	<u>3.1</u>	<u>3.5</u>	<u>5.4</u>	<u>8.6</u>	<u>12.1</u>	<u>14.1</u>	
60	50	45	29	16	9	1.3	10	16	23	35	50	60

898.85 ✓

90+00				94.2
B.M.			13.10	885.75 ✓ 886.76
90+60				87.3
	0.58	888.19 ✓	11.24	887.61 ✓
	4.80	881.33 ✓	11.64	876.53 ✓
91+00				69.0
	1.11	870.05 ✓	12.39	868.94 ✓
91+28				62.3
91+46	EDGE OF CREEK.			59.1
91+50				16.0
91+70				51.1
91+90				14.0
91+95	EDGE OF CREEK.			59.1
92+00				61.8
92+06	EDGE OF PAVE.			62.55
92+25	☐ OF PAVE.			62.84
92+44	EDGE OF PAVE.			62.65
93+00				62.9
	5.09	868.60 ✓	6.54	863.51 ✓

<u>129</u>	<u>63</u>	<u>26</u>	<u>25</u>	<u>3.1</u>		<u>60</u>	<u>6.2</u>	<u>73</u>	<u>85</u>	<u>96</u>	<u>98</u>	<u>11.2</u>
60	50	49	39	29	4.7	10	20	31	40	45	50	60

<u>170</u>	<u>176</u>	<u>15.0</u>	<u>138</u>	<u>12.1</u>		<u>110</u>	<u>103</u>	<u>96</u>	<u>95</u>	<u>9.4</u>
60	44	49	22	9	11.6	13	28	41	50	60

<u>12.0</u>	<u>159</u>	<u>16.2</u>	<u>150</u>		<u>4.4</u>	<u>0.6</u>	<u>75.4</u>
60	50	32	18	12.3	27	40	60

TOP OF STRIKE @ STR 91700

<u>108</u>	<u>10.4</u>	<u>10.8</u>	<u>74</u>		<u>4.9</u>	<u>2.7</u>	<u>75.1</u>	<u>78.3</u>
60	50	44	20	7.8	18	30	50	60

<u>16.0</u>	<u>15.4</u>		<u>9.7</u>	<u>9.3</u>	<u>80</u>	<u>45</u>	<u>1.5</u>
60	12	11.0	15	36	44	50	60

<u>19.0</u>		<u>19.0</u>
60	19.0	60

EDGE OF PAVE

<u>7.22</u>	<u>7.18</u>	<u>7.58</u>	<u>7.55</u>	<u>7.9</u>		<u>140</u>	<u>160</u>
60	50	19	17	10	11.0	12	60

EDGE OF PAVE

<u>7.25</u>	<u>7.10</u>	<u>7.60</u>	<u>7.51</u>		<u>110</u>	<u>14.0</u>	<u>16.0</u>
60	50	13	10	9.5	10	2.0	60

<u>7.30</u>	<u>7.26</u>	<u>7.20</u>	<u>7.56</u>		<u>7.5</u>	<u>110</u>	<u>140</u>	<u>160</u>
60	50	34	5	7.50	<u>30</u>	18	28	60

<u>0.6</u>	<u>6.2</u>	<u>7.41</u>		<u>7.41</u>	<u>7.5</u>	<u>11.1</u>	<u>14.1</u>
60	50	30	7.21	29	33	50	60

<u>4.4</u>	<u>4.7</u>	<u>6.3</u>	<u>6.7</u>		<u>7.16</u>	<u>7.30</u>
60	50	42	28	7.40	32	60

<u>7.0</u>	<u>7.25</u>	<u>3.0</u>	<u>7.8</u>		<u>6.9</u>	<u>8.2</u>	<u>7.7</u>	<u>7.5</u>	<u>7.3</u>
60	43	27	14	7.2	14	21	39	50	60

868.60

93750

63.7

94100

64.5

94750

64.0

95100

63.9

95750

62.7

96100

62.7

96750

61.6

97100

63.3

97750

EDGE OF PAGE

65.00

97766

65.15

B.M.

5.02 868.58 863.60

To work

<u>1.4</u>	<u>35</u>		<u>6.2</u>	<u>67</u>	<u>6.9</u>	<u>112.2</u>	<u>130</u>
34	19	5.4	23	50	60	55	60

How Come? Lt.

<u>112.0</u>	<u>110</u>	<u>2.7</u>		<u>6.2</u>	<u>68</u>	<u>7.2</u>
60	43	21	4.1	38	50	60

<u>110.1</u>	<u>125</u>	<u>31</u>		<u>5.1</u>	<u>65</u>	<u>6.9</u>
60	40	25	4.6	24	50	60

<u>168</u>	<u>150</u>	<u>150</u>	<u>46</u>		<u>54</u>	<u>5.3</u>	<u>7.4</u>	<u>7.4</u>	<u>68</u>
60	50	39	23	4.7	31	49	32	38	60

<u>120</u>	<u>117</u>	<u>0.0</u>	<u>5.4</u>	<u>6.3</u>		<u>6.8</u>	<u>6.2</u>	<u>7.9</u>	<u>4.5</u>	<u>5.05</u>	<u>5.00</u>
60	50	36	27	11	64	18	32	40	50	56	60

EDGE OF PAVL

<u>26</u>	<u>43</u>	<u>61</u>	<u>50</u>	<u>5.4</u>		<u>6.8</u>	<u>9.1</u>	<u>8.7</u>	<u>4.5</u>	<u>4.90</u>	<u>5.10</u>
60	50	38	28	25	5.9	11	20	26	36	41	60

EDGE OF PAVL

<u>42</u>	<u>8.8</u>	<u>81</u>	<u>57</u>	<u>5.4</u>		<u>9.1</u>	<u>8.7</u>	<u>4.1</u>	<u>4.62</u>	<u>5.08</u>	<u>4.80</u>	<u>4.5</u>	<u>90</u>
60	47	32	27	13	7.0	4	8	20	23	45	46	50	60

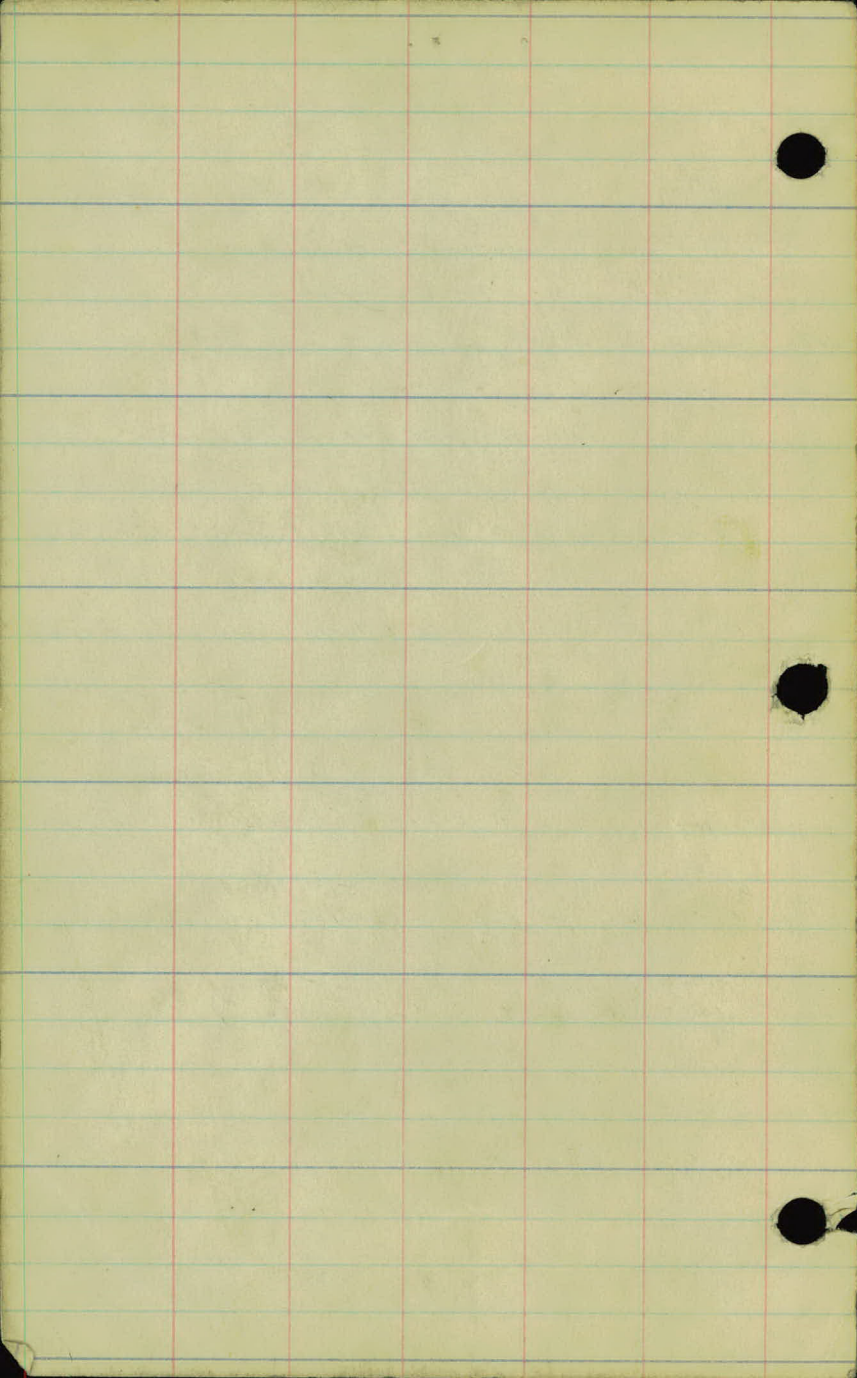
<u>46</u>	<u>8.7</u>	<u>7.6</u>	<u>8.6</u>	<u>6.1</u>	<u>5.7</u>	<u>6.3</u>		<u>3.9</u>	<u>4.28</u>	<u>5.20</u>	<u>4.95</u>	<u>4.8</u>	<u>9.5</u>	<u>100</u>
60	53	35	31	26	14	4	5.3	5	10	30	31	36	43	60

<u>45</u>	<u>8.6</u>	<u>27</u>	<u>69</u>	<u>5.6</u>	<u>3.0</u>			<u>5.15</u>	<u>4.90</u>	<u>4.4</u>	<u>9.5</u>	<u>100</u>
60	53	30	27	18	4	3.60	21	22	26	37	60	

25.

<u>5.3</u>	<u>90</u>	<u>70</u>	<u>6.2</u>	<u>2.3</u>	<u>2.80</u>		<u>4.75</u>	<u>4.54</u>	<u>4.1</u>	<u>8.9</u>	<u>100</u>
60	55	30	26	19	8	3.45	13	14	19	28	60

Sp. in Arc light Pole # 58 - Int. Frost Ave. + Phalen Blvd.



1
12-4-29

PROJ # 30-10

ELEVS 30 RIGHT OF CENTER LINE
FROM STA 89700 TO STA 94700

B.M.	13.74	299.50 [✓]		885.76	
89	50 RT.			15.6	85.9
+25				11.0	88.5
+46				8.8	90.7
+68				8.2	91.3
+84				9.2	90.3
90				7.9	91.6
+25				8.6	90.9
+50				10.1	89.4
+67				11.7	87.8
+82				13.8	85.7

	0.51	887.94 [✓]	11.87	297.63 [✓]	
71				9.5	78.4
	0.77	875.06 [✓]	13.65	274.29 [✓]	
+13				2.1	73.0
+22				7.0	68.1
+39				13.1	62.0
	3.19	864.75 [✓]	13.50	861.54 [✓]	
+57				5.5	59.3
+60	EDGE OF CREEK	TOP OF ICE		7.2	57.6
+63				9.2	55.6
+85				12.2	52.6
92+07				8.7	56.1
+10	EDGE OF CREEK			7.2	57.6
+22				9.1	62.7

	5.00	869.74 [✓]	1.81	862.94 [✓]	
B.M.	817	871.79 [✓]	4.31	863.63 [✓]	863.60

TOP OF ICE.

871.79

92+25	EDGE OF PAVE	9.10	62.69
92+43	TOP OF PAVE	8.82	62.97
92+63	EDGE OF PAVE	9.07	62.72
93+00		9.3	62.5
93+15		9.4	62.4
93+22		10.2	61.6
93+37		9.1	62.7
93+50		9.7	62.1
93+75		9.6	62.2
94+00		9.2	62.6
B.M.		8.19	565.60

12-4-29

Elevs 20' RIGHT OF CENTER LINE
FROM STA. 89+00 TO STA. 94+00

B.M.	13.74	899.50		585.76	
89	20	RT		11.7	87.8
+35				8.5	91.0
+39				7.1	92.4
+46				6.5	93.0
+68				7.3	92.2
+77				6.8	92.7
90				6.7	92.8
+31				8.3	91.2
+50				10.4	89.1
+67				12.3	87.2
+77				14.3	85.2
	0.31	887.94	11.87	887.63	
+89				7.1	80.8
91				13.2	74.7
	0.77	875.06	13.65	874.29	
+13				6.3	68.8
+19				7.6	67.5
+36				13.0	62.1
	3.19	864.75	13.50	868.56	
+52				5.3	59.5
+55		EDGE OF CREEK		7.2	57.6
+59				9.8	55.0
+81				12.1	52.7
92				9.4	55.4
+03		EDGE OF CREEK		7.2	57.6



864.75

92+14	20 RT		2.2	62.6	
	5.00	867.74	1.81	862.94	
	8.19	871.99	4.31	863.63	863.60
92+18 ⁵	EDGE OF PAVE.		7.16	62.63	
92+37			8.80	62.49	
92+56 ⁵	EDGE OF PAVE.		9.08	62.71	
92+77			8.8	63.0	
93+00			9.6	62.2	
93+17			9.9	61.9	
93+38			8.3	63.5	
93+50			9.2	62.6	
93+75			9.1	62.7	
94+00			9.1	62.7	
B.M.		7.19	863.60		

12-4-29

ELEVS 10 RIGHT OF CENTER
LINE FROM STA. 89+00 TO STA. 94+00.

B.M.	13.74	877.50 ✓		885.76	
89	10	H.T.		9.2	90.3
+85				6.5	93.2
+89				5.6	93.9
+53				5.0	94.5
+96				6.0	93.5
90				6.6	92.9
+08				6.4	93.1
+30				8.2	91.3
+50				10.4	89.1
+61				12.0	87.5

0.51 887.94 11.87 887.63 ✓

+71				2.6	85.3
+82				6.9	81.0
+88				10.6	77.3

0.77 875.06 13.65 874.29 ✓

91				2.2	72.9
+06				7.3	67.8
+17				8.7	66.7
+30				12.7	62.4

3.19 864.75 13.50 861.56 ✓

+49				5.2	59.6
+52	EDGE OF CREEK,			7.2	57.6
+55				9.5	55.3
+74				12.2	52.6
+93				9.4	55.4



864.75

91+97	EDGE OF CREEK		7.2	57.6	
92+08			1.8	63.0	
T.P.	5.00	867.94	1.81	862.94	
B.M.	8.19	871.79	4.31	863.63	863.60
92+13	EDGE OF PAVE.		7.13	62.66	
92+31	TOP OF PAVE		8.86	62.93	
92+50	EDGE OF PAVE.		7.06	62.73	
92+72			8.7	63.1	
93+00			7.1	62.7	
93+25			8.4	63.4	
93+50			8.5	63.3	
93+75			8.9	62.9	
94+00			8.5	63.3	
B.M.		8.19		863.60	

12-4-29

ELEVS 10 LEFT OF CENTER LINE
FROM STA. 89+00 TO STA. 94+00

B.M.	13.74	^v 89950		^v 885.76	
89	10	LT.		6.8	79.0
+14				5.0	80.8
+24				5.7	82.1
+39				2.9	82.9
+71				3.4	82.4
+77				4.4	81.4
+82				4.7	81.1
+88				4.0	81.8
90				4.7	81.1
+18				6.9	78.9
+50				10.5	75.3
+60				13.2	72.6
	0.31	^v 88794	11.87	^v 887.63	
+66				4.0	83.9
+85				12.0	75.9
	0.77	^v 875.06	13.65	^v 874.29	
+93				5.8	69.3
91				8.4	66.7
+20				12.0	63.1
	3.19	^v 864.75	13.50	^v 861.56	
+43				5.1	59.7
+45	EDGE OF CREEK.			7.2	57.6
+48				9.0	55.8
+64				12.8	52.0
+82				8.8	56.0



864.75

91 +85	EDGE OF CREEK		7.2	57.6	
91 +97			2.4	62.4	
T.P.	5.00	867.94	1.81	862.94	
B.M.	2.19	871.79	4.31	863.63	863.60
91 +99 ⁵	EDGE OF PAVE		7.22	62.57	
92 +20			8.89	62.90	
92 +38	EDGE OF PAVE		7.00	62.79	
92 +68			2.6	63.2	
93 +00			8.9	62.9	
93 +10			7.1	64.7	
93 +50			8.0	63.8	
93 +80			7.0	64.8	
94 +00			6.7	65.1	
B.M.		819		863.60	

12-4-29

ELEVS 20 LEFT OF CENTER LINE
FROM STA. 29+00 - 94+00.

B.M	13.74	899.50		885.76	
89	20	LT.		7.7	89.8
+30				7.4	82.1
+53				1.6	87.9
+71				2.9	86.6
+78				2.7	86.8
90				4.3	85.2
+15				6.3	83.2
+33				8.1	81.4
+50				10.4	79.1
+58				13.6	75.9
	0.31	887.94	11.27	887.63	
+65				4.4	83.54
	0.77	875.06	13.65	844.19	
+84				3.7	71.4
+91				8.3	66.8
91				9.9	65.2
+17				12.0	63.1
	3.19	864.75	13.50	861.56	
+40				5.4	59.4
+42	EDGE OF CREEK			7.2	57.6
+44				8.7	56.1
+62				13.0	51.8
+77				8.8	56.0
+80	EDGE OF CREEK			7.2	57.6
+84				6.2	58.6



86475

1

91+87	20 LT.			3.4	61.4
91+91				1.2	62.6
T.P.	5.00	867.94	1.81	862.94	
B.M.	8.19	871.79	4.31	863.63	863.60
91+93 ⁵	EDGE OF PAVE			7.28	62.51
92+00				8.91	62.88
92+14				8.85	62.94
92+31 ⁵	EDGE OF PAVE			9.08	62.71
92+50				9.0	62.8
92+76				9.5	62.3
92+95				8.7	63.1
93+00				6.4	65.1
93+10				6.8	65.0
93+50				6.7	65.1
93+75				6.0	65.8
94+00				6.0	65.8
B.M.			8.19	863.60	

12-4-29

ELEVS 30' LEFT OF CENTER
LINE FROM STA 89+00 TO 94+00

B.M.	13.74	899.50		885.76	
89	30'	LT		9.9	89.6
+25				10.6	88.9
+41				10.2	89.3
+69				1.7	97.8
90				4.0	95.5
+26				7.4	92.1
+39				8.5	91.0
+50				10.6	88.9
T.P.	0.31	887.94	11.87	887.63	
T.P.	0.77	875.06	13.65	874.29	
+90				8.9	66.2
91				10.6	64.5
+12				11.5	63.6
T.P.	3.19	864.75	13.50	861.56	
+37				5.4	59.8
+39		EDGE OF CREEK		7.2	57.4
+41				8.5	56.3
+59				12.8	52.0
+73				9.1	55.7
+77		EDGE OF CREEK		7.2	57.4
+80				6.2	58.4
+86				2.2	62.4
T.P.	5.00	847.94	1.81	862.94	
B.M.	8.19	871.79	4.31	863.63	863.60
91+88		EDGE OF PAVE		7.37	62.47



871.79

92+00	30' L	8.75	62.84
92+10		8.88	62.91
92+25	EDGE OF PAVE.	9.10	62.69
92+50		9.0	62.8
92+60		9.1	62.7
92+75		9.3	62.5
92+82		8.8	63.0
93+00		2.3	69.5
93+09		5.8	66.0
93+33		5.5	66.3
93+50		5.5	66.5
93+76		4.3	67.5
94+00		2.1	69.7
B.M.		7.19	86.60 ^v

12-4-29

PROJ # 30-10.

ELEVS OF BOTTOM OF CREEK
500' LEFT & RIGHT OF CENTER LINE.

B.M. 2.91 866.51 863.60

0+00 CENTER OF CREEK ON ϕ .

0+50 = 50' HT. OF ϕ IN CENTER OF CREEK.

1+00

1+50

2+00

2+50

3+00

3+50

4+00

4+50

5+00 = 500' RT. OF ϕ

0+50 = 50' LT. OF ϕ .

1+00

8.00 867.62 6.89 859.62

1+50

2+00

2+50

3+00

3+50

4+00

4+50

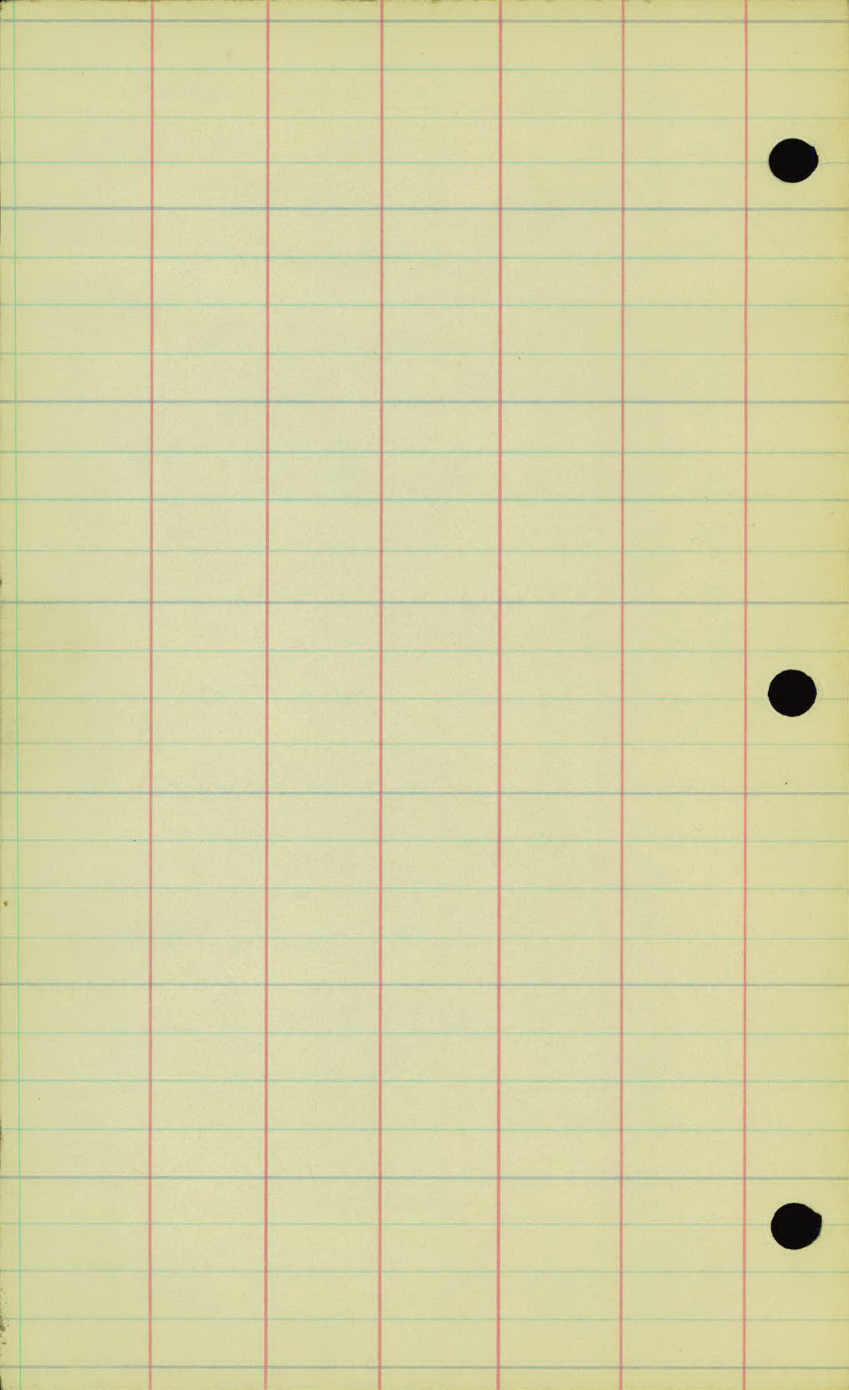
5+00 = 500' LT. OF ϕ .

B.M.

4.00 863.62 863.60

12-4-29

ROD	ELEV				ROD	ELEV			
9.08	57.43	TOP OF ZONE			141	52.4	BOTTOM OF CHANNEL		
9.08	57.43	"	"	"	139	52.6	"	"	"
9.01	57.50	"	"	"	143	52.2	"	"	"
9.06	57.45	"	"	"	144	52.1	"	"	"
9.06	57.45	"	"	"	141	52.4	"	"	"
9.07	57.44	"	"	"	146	50.9	"	"	"
9.07	57.44	"	"	"	16.5	50.2	"	"	"
9.04	57.47	"	"	"	16.2	50.3	"	"	"
9.03	57.48	"	"	"	159	50.6	"	"	"
9.04	57.47	"	"	"	149	51.6	"	"	"
9.05	57.46	"	"	"	139	52.6	"	"	"
9.05	57.46	"	"	"	146	50.9	"	"	"
9.01	57.50	"	"	"	141	52.4	"	"	"
10.13	57.49	"	"	"	158	51.8	"	"	"
10.15	57.47	"	"	"	158	51.8	"	"	"
10.13	57.49	"	"	"	16.2	51.4	"	"	"
10.12	57.50	"	"	"	16.2	51.4	"	"	"
10.14	57.48	"	"	"	156	52.0	"	"	"
10.15	57.47	"	"	"	157	51.9	"	"	"
10.15	57.47	"	"	"	15.9	51.7	"	"	"
10.15	57.47	"	"	"	16.0	51.6	"	"	"



PROJ. # 30-10

TOP OF RAIL FLENS FROM
STA 89+00 TO STA 94+00.

B.M. 7.39 893.15^v 885.76

89 CENTER OF TRACK 93 LEFT.

+50

90

+50

91

+50

92

+50

93

+50

94

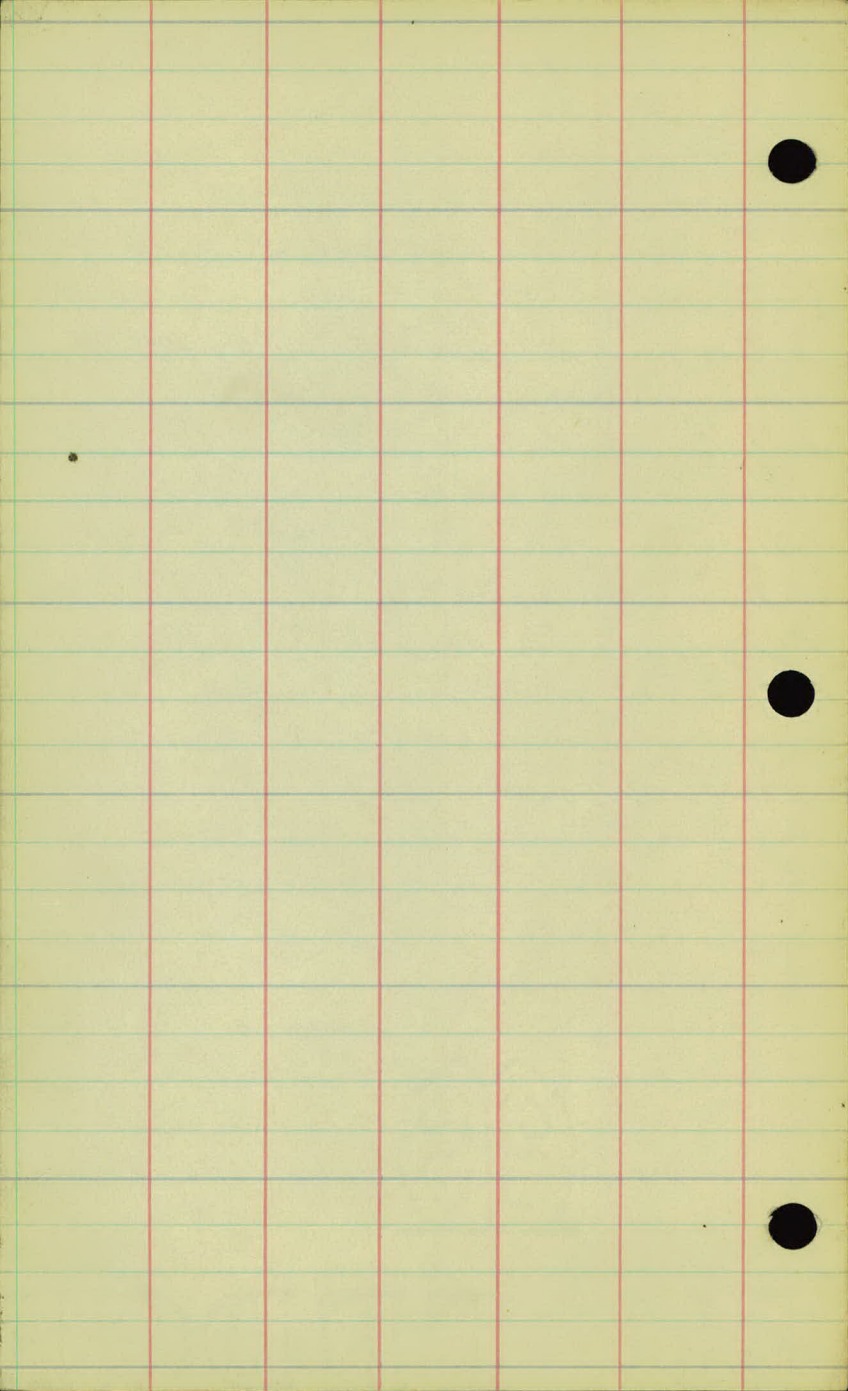
B.M. 7.39 885.76

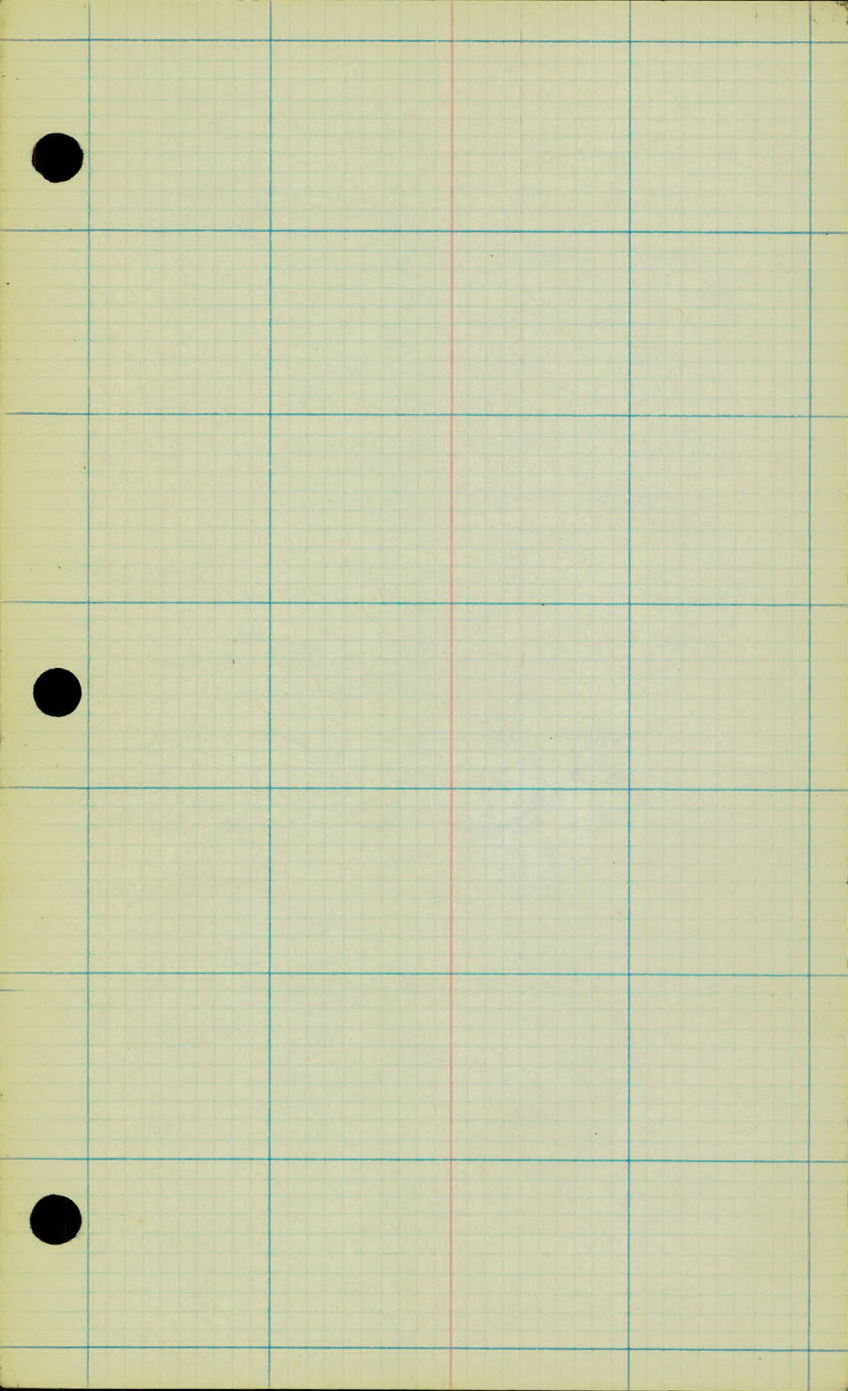
12-4-29

#

NORTH RAIL TR. SOUTH RAIL

ROD	FLEY	ROD	FLEY
7.29	83.86	7.29	83.86
7.51	83.64	7.53	83.62
7.78	83.37	7.78	83.37
10.07	83.08	10.07	83.08
10.35	82.80	10.35	82.80
10.63	82.52	10.63	82.52
10.85	82.30	10.86	82.29
11.02	82.13	11.05	82.10
11.18	81.97	11.20	81.95
11.38	81.77	11.37	81.78
11.55	81.60	11.56	81.59





ELEV

12-5-29

SOUNDING # 1-30 LT. STA. 91+33

860.2 0'-3' SANDY LOAM. WATER SEEPED
3'-6' GRAVEL. IN AT 5' DOWN.
6'-7' FINE GRAVEL
7'-8' BLUE CLAY

SOUNDING # 2-30 RT. STA. 91+52

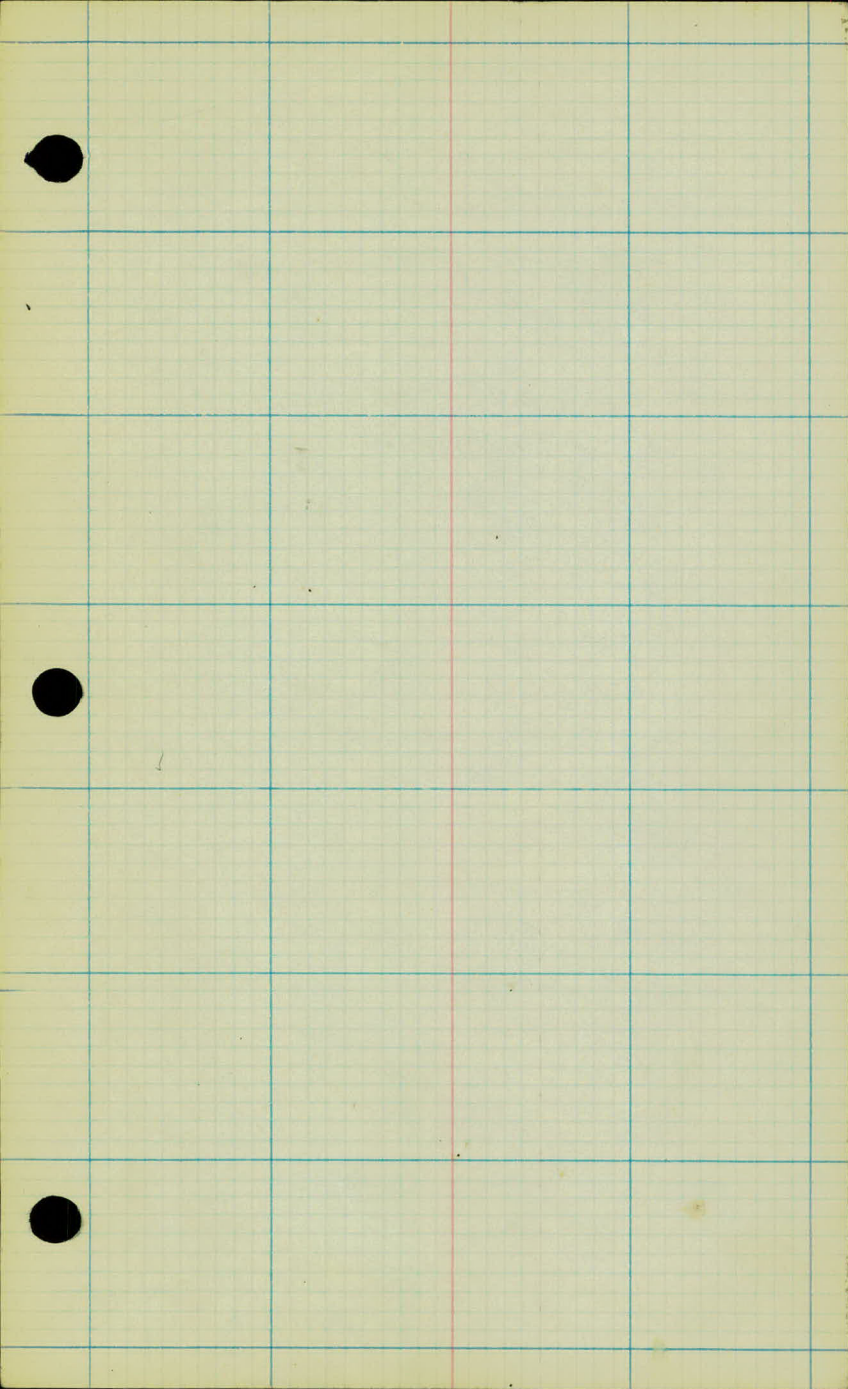
860.1 0'-3½ SANDY LOAM.
3½-9' CLAY WET

SOUNDING # 3 ON ♀ AT STA. 91+42

860.4 0'-1' SANDY LOAM. WATER SEEPED
1'-4' GRAVEL IN AT 5' DOWN.
4'-7½ BLUE CLAY

SOUNDING # 4 ON ♀. 92+56

862.9 0'-3' GRAVEL
3'-4½ SAND
4½-7' MUCK
7'-13' WET SAND
13'-14' BLUE CLAY
HOLE FILLED WITH WATER 6' DOWN.



12-6-29

SOUNDING # 5 30 FT. STA. 92+39

863.3 0'-2' SAND

2'-4½' CLAY YELLOW

4½'-6' MUCK

6'-7' SAND

7'-12½' BLUE CLAY WET

12½'-14' YELLOW CLAY,

SOUNDING # 6 30 FT STA. 92+70

862.9 0'-4½' SAND & GRAVEL

4½'-8' MUCK

WATER 6½' DOWN

8'-15' WET SAND

15'- STRUCK A ROCK

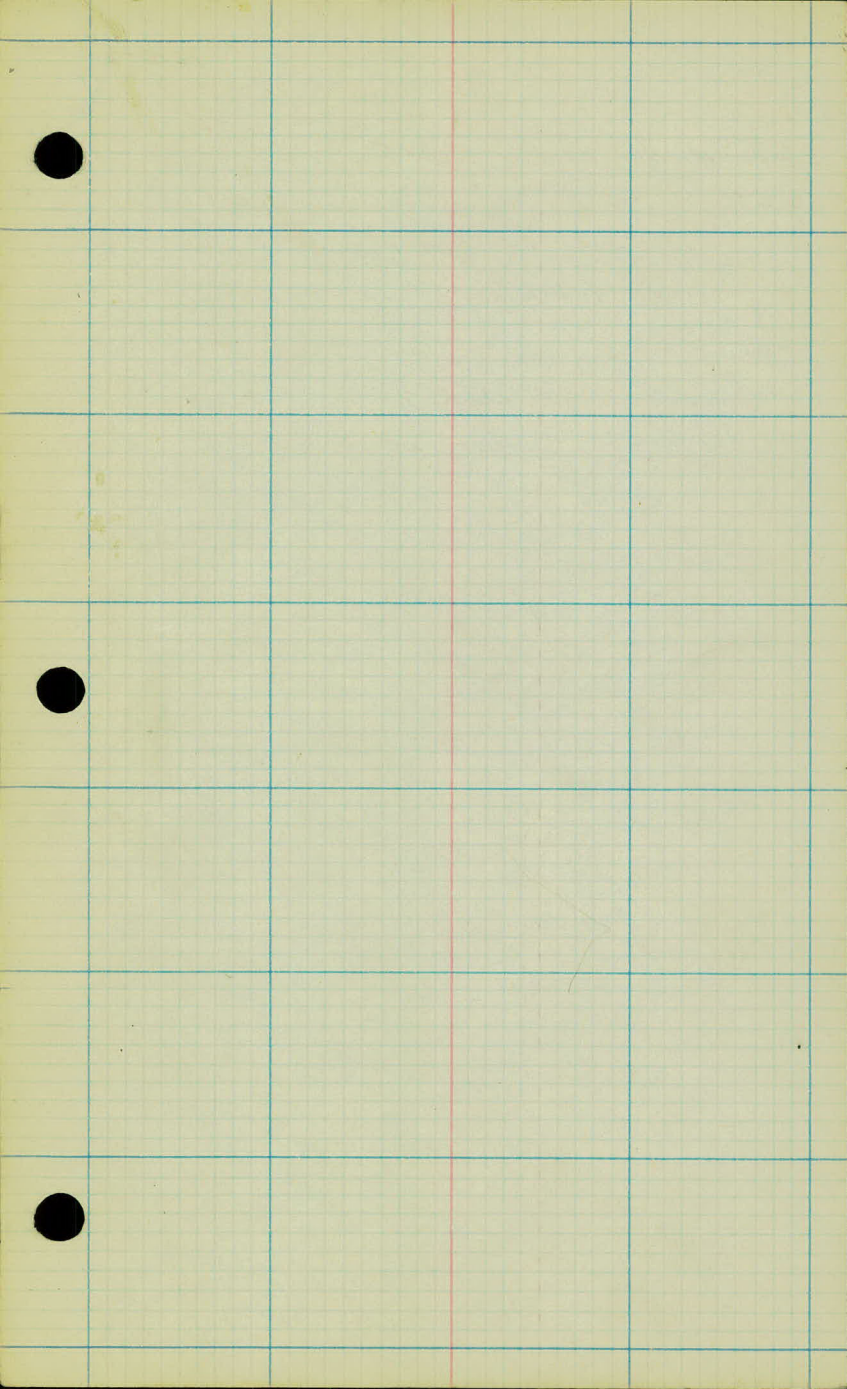
SOUNDING # 7-30 FT STA. 92+24

862.7 0'-4' SANDY CLAY WATER 6' DOWN.

4'-5½' BLUE CLAY

5½'-11½' WET SAND

11½'-



12-6-29

SOUNDING # 8 ON \square 92 + 05

862.7 0-5' SANDY CLAY

5'-11' WET SAND. FINE WATER 6 DOWN.

11-13+ BLUE CLAY

SOUNDING # 9 35 LT STA 91784

862.6 0-5' SANDY CLAY WATER 6 DOWN

5'-10' WET SAND & MUD

10'-14+ BLUE CLAY

PROJ # 30-10.

FROST AVE EXT.

X SECTIONS FROM STA 91+00
TO STA 95+00.

STA.	+	H.I.	-	ELEV.
B.M.	4.76	868.36		863.60
91+19 [±]				63.5

92+77 [±]				63.1
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93+00				63.0
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93+50				63.2
-------	--	--	--	------

94+00				64.6
-------	--	--	--	------

94+50				64.0
-------	--	--	--	------

95+00				64.0
-------	--	--	--	------

CROSS DRAIN UNDER FROST AVE.

B.M.	4.76	863.60		
------	------	--------	--	--

LEFT

RIGHT

SPK IN ARC LIGHT POLE #58

1140	780	00	20	54	58	59	55	43	20	0.0	715	160	183	139	
88	77	63	58	49	45	34	13	4.9	7	15	29	33	40	46	64

120	142	130	110	03	10	35	52	64	61	56	5.76	5.39	
80	73	69	50	47	42	39	33	25	19	5.3	28	50.5	80

EDGE OF PAVEMENT

5.9	64	60	57	54	5.73	5.25	
5.4	16	21	40	50	83	91	133

EDGE OF PAVEMENT

5.6	64	63	64	61	61	52	523	
5.2	20	50	72	70	100	105	109	113
								5.11
								128

EDGE OF PAVEMENT

5.5	60	67	69	79	51	501	490	
3.8	15	41	50	84	17	98	103	114
								49

EDGE OF PAVEMENT

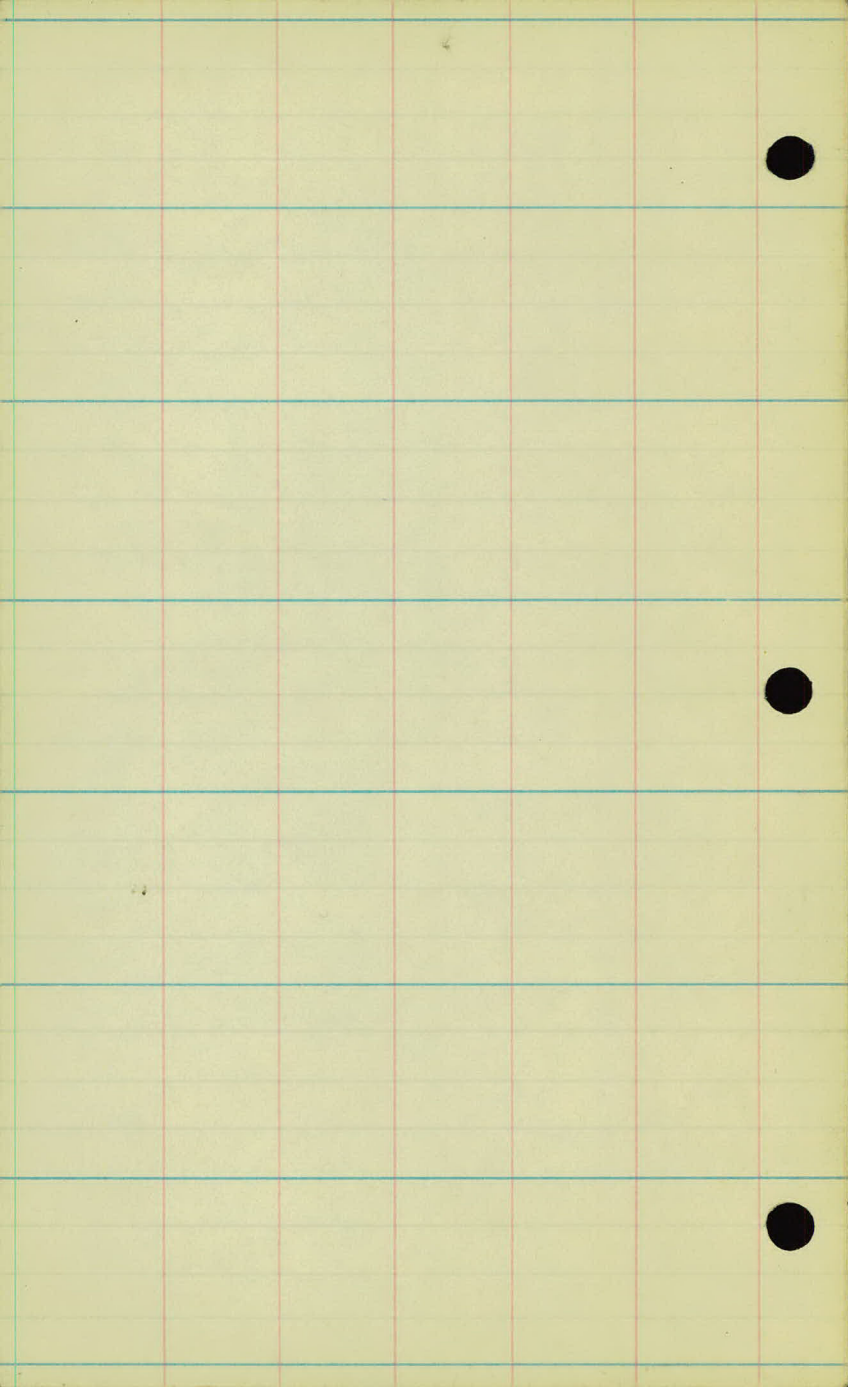
51	60	61	73	67	47	483	4.71	
4.4	27	38	50	70	76	83	87	97

EDGE OF PAVEMENT

52	50	70	74	70	45	475	4.65	
4.4	26	47	54	57	59	67	73	82

INTAKE 1150

940 OUTLET



FROST AVE EXT

PROJ. # 30-10.

X SEC. FOR BORROW PT.

B.M.	4.89	868.47		863.60	
	11.57	878.10	1.96	866.53	
	12.31	887.57	0.90	877.20	
	9.02	877.57	0.96	888.55	
B.M.			6.94	890.61	

0+00 91.5 ✓

0+50 93.2 ✓

1+00 95.3 ✓
 6.63 903.16 1.04 896.53

1+50 97.5 ✓

2+00 99.6 ✓

2+50

3+00

3+50

LEFT

ON ARC-LIGHT POLE #58

TOP OF MOUNT 33 AT STA. 0700

<u>872</u>	<u>78</u>	<u>103</u>	<u>59</u>	<u>67</u>	<u>77</u>	<u>97</u>	<u>94</u>	<u>57</u>	<u>587</u>	(6.1)
824	78	45	66	50	26	23	16	8	45	674

<u>827</u>	<u>93</u>	<u>97</u>	<u>57</u>	<u>45</u>	<u>37</u>	<u>61</u>	<u>64</u>	<u>36</u>	<u>3.87</u>	
97	92	71	82	50	30	25	19	13	9.1	4.35

<u>776</u>	<u>87</u>	<u>91</u>	<u>58</u>	<u>29</u>	<u>40</u>	<u>32</u>	<u>20</u>	<u>48</u>	<u>48</u>	<u>1.9</u>	<u>1.74</u>	
111	107	105	(50)	75	72	50	28	23	20	14	10	2.25

100

<u>1277</u>	<u>134</u>	<u>137</u>	<u>84</u>	<u>25</u>	<u>86</u>	<u>67</u>	<u>66</u>	<u>86</u>	<u>75</u>	<u>54</u>	<u>5.50</u>	(6.7)
1245	122	119	108	100	57	50	31	28	21	15	10	5.65

<u>12.30</u>	<u>130</u>	<u>134</u>	<u>67</u>	<u>65</u>	<u>64</u>	<u>3.1</u>	<u>2.4</u>	<u>5.5</u>	<u>5.7</u>	<u>3.4</u>	<u>3.55</u>	(3.6)
137	134	131	118	100	89	50	31	25	20	15	10	3.60

<u>11.88</u>	<u>12.7</u>	<u>131</u>	<u>62</u>	<u>59</u>	<u>4.2</u>	<u>0.5</u>	(1.6)
147	144	141	129	117	100	80	

<u>11.48</u>	<u>12.2</u>	<u>12.6</u>	<u>111</u>	<u>12.5</u>	<u>11.8</u>	<u>0.8</u>	(40.1)
158	155	150	145	137	130	114	

<u>11.19</u>	<u>11.8</u>	<u>12.7</u>	<u>130</u>	<u>12.8</u>	(+1.5)
167	163	159	150	134	

903.16

11.84 713.64 1.36 901.80

2750 11.84 7.36 901.80

01.6

3700

03.3

3750

04.7

4700

05.5

B.M.

7.42 906.22

4754⁸⁵ P.O.T.

06.2

5700

06.5

5750

06.8

6700

06.1

6750

05.9

$\begin{array}{r} 74 \\ 70 \end{array}$ $\begin{array}{r} 76 \\ 50 \end{array}$ $\begin{array}{r} 66 \\ 35 \end{array}$ $\begin{array}{r} 138 \\ 25 \end{array}$ $\begin{array}{r} 138 \\ 21 \end{array}$ $\begin{array}{r} 120 \\ 15 \end{array}$ $\begin{array}{r} 1206 \\ 10 \end{array}$ $\begin{array}{r} 11 \\ 11 \end{array}$ $\begin{array}{r} 98 \\ 98 \end{array}$ (12.0)

$\begin{array}{r} 92 \\ 100 \end{array}$ $\begin{array}{r} 60 \\ 83 \end{array}$ $\begin{array}{r} 51 \\ 67 \end{array}$ $\begin{array}{r} 55 \\ 50 \end{array}$ $\begin{array}{r} 63 \\ 35 \end{array}$ $\begin{array}{r} 128 \\ 23 \end{array}$ $\begin{array}{r} 104 \\ 15 \end{array}$ $\begin{array}{r} 1044 \\ 10 \end{array}$ $\begin{array}{r} 10.33 \\ 10.33 \end{array}$ (10.3)

$\begin{array}{r} 135 \\ 124 \end{array}$ $\begin{array}{r} 134 \\ 119 \end{array}$ $\begin{array}{r} 100 \\ 100 \end{array}$ $\begin{array}{r} 74 \\ 81 \end{array}$ $\begin{array}{r} 66 \\ 50 \end{array}$ $\begin{array}{r} 66 \\ 35 \end{array}$ $\begin{array}{r} 114 \\ 23 \end{array}$ $\begin{array}{r} 90 \\ 15 \end{array}$ $\begin{array}{r} 902 \\ 10 \end{array}$ $\begin{array}{r} 89 \\ 8.90 \end{array}$ (8.9)

X $\begin{array}{r} 134 \\ 88 \end{array}$ $\begin{array}{r} 104 \\ 74 \end{array}$ $\begin{array}{r} 59 \\ 50 \end{array}$ $\begin{array}{r} 52 \\ 34 \end{array}$ $\begin{array}{r} 102 \\ 25 \end{array}$ $\begin{array}{r} 103 \\ 22 \end{array}$ $\begin{array}{r} 80 \\ 15 \end{array}$ $\begin{array}{r} 812 \\ 10 \end{array}$ $\begin{array}{r} 8.05 \\ 8.05 \end{array}$ (8.1)

TOP OF MONT. ON S. AT STA. 4754^{RE}

$\begin{array}{r} 135 \\ 92 \end{array}$ $\begin{array}{r} 117 \\ 81 \end{array}$ $\begin{array}{r} 83 \\ 67 \end{array}$ $\begin{array}{r} 54 \\ 50 \end{array}$ $\begin{array}{r} 43 \\ 35 \end{array}$ $\begin{array}{r} 95 \\ 24 \end{array}$ $\begin{array}{r} 95 \\ 22 \end{array}$ $\begin{array}{r} 74 \\ 15 \end{array}$ $\begin{array}{r} 752 \\ 10 \end{array}$ $\begin{array}{r} 742 \\ 7.42 \end{array}$ (7.4)

$\begin{array}{r} 130 \\ 81 \end{array}$ $\begin{array}{r} 90 \\ 50 \end{array}$ $\begin{array}{r} 70 \\ 33 \end{array}$ $\begin{array}{r} 23 \\ 27 \end{array}$ $\begin{array}{r} 94 \\ 21 \end{array}$ $\begin{array}{r} 72 \\ 15 \end{array}$ $\begin{array}{r} 724 \\ 10 \end{array}$ $\begin{array}{r} 7.13 \\ 7.13 \end{array}$ (7.1)

$\begin{array}{r} 129 \\ 62 \end{array}$ $\begin{array}{r} 126 \\ 50 \end{array}$ $\begin{array}{r} 111 \\ 25 \end{array}$ $\begin{array}{r} 73 \\ 16 \end{array}$ $\begin{array}{r} 727 \\ 10 \end{array}$ $\begin{array}{r} 716 \\ 7.16 \end{array}$ (7.2)

$\begin{array}{r} 77 \\ 160 \end{array}$ $\begin{array}{r} 94 \\ 150 \end{array}$ $\begin{array}{r} 89 \\ 141 \end{array}$ $\begin{array}{r} 94 \\ 125 \end{array}$ $\begin{array}{r} 112 \\ 100 \end{array}$ $\begin{array}{r} 109 \\ 76 \end{array}$ $\begin{array}{r} 128 \\ 50 \end{array}$ $\begin{array}{r} 128 \\ 29 \end{array}$ $\begin{array}{r} 122 \\ 23 \end{array}$ $\begin{array}{r} 77 \\ 15 \end{array}$ $\begin{array}{r} 762 \\ 10 \end{array}$ $\begin{array}{r} 7.52 \\ 7.52 \end{array}$ (7.5)

$\begin{array}{r} 77 \\ 64 \end{array}$ $\begin{array}{r} 64 \\ 60 \end{array}$ $\begin{array}{r} 56 \\ 50 \end{array}$ $\begin{array}{r} 50 \\ 121 \end{array}$ $\begin{array}{r} 63 \\ 100 \end{array}$ $\begin{array}{r} 72 \\ 87 \end{array}$ $\begin{array}{r} 98 \\ 50 \end{array}$ $\begin{array}{r} 104 \\ 27 \end{array}$ $\begin{array}{r} 114 \\ 25 \end{array}$ $\begin{array}{r} 112 \\ 121 \end{array}$ $\begin{array}{r} 11 \\ 15 \end{array}$ $\begin{array}{r} 8.25 \\ 10 \end{array}$ $\begin{array}{r} 8.16 \\ 8.16 \end{array}$ (8.2)

913.64 ✓

7+00

04.8

7+50

2.29 902.82 13.11 900.53 ✓

04.1 ✓

4+00

4+54⁸⁵

5+00

5+50

6+00

6+50

7+00

13.50 906.12 10.20 892.62 ✓

6.6 3.8 2.1 2.1 3.1 4.5 5.0 10.9 10.9 8.5 8.8 6.8
172 150 124 100 80 50 33 24 20 14 10 8.77

6.7 3.5 3.8 5.4 5.7 5.1 5.1 6.3 11.5 11.5 9.3 9.58
181 150 125 109 100 78 50 34 24 20 15 10 9.47

10.56 11.2 11.9 12.1 13.0 11.8 7.0 8.7 7.7 4.6
176 173 170 157 153 140 133 128 119 100

10.44 11.1 11.8 11.8 11.4 6.6 7.3 7.6 5.7 4.0
184 182 178 150 147 140 135 126 112 100

10.32 11.1 12.2 11.2 4.9 6.2 5.8 5.4 4.4
192 188 172 159 147 141 126 100 88

10.20 10.9 12.1 11.6 2.8 4.2 5.3 6.7 6.6 5.3
200 197 181 167 153 151 147 115 100 71

10.14 10.9 11.6 12.3 11.0
209 205 201 191 181

10.08 10.1 10.9 12.4 11.2
217 217 212 200 188

9.95 10.7 12.9 13.0 11.2
225 221 212 206 196

906.12

7+50

8+00

03.4

8+40

02.9

9+00

02.3

9+50

01.7

4.87

906.18

4.81

901.31

10+00

01.2

10+50

00.7

11+00

00.2

11+70

99.4

LEFT.

13.20 143 165 165 15.7 14.5 12.9
233 226 221 216 213 205 200

(2.0)

13.10 138 172 16.5 7.8 7.4 5.2 4.6 4.7 5.7 5.7 5.4 6.2 2.6 2.80
241 236 226 206 196 187 171 150 125 100 66 50 23 15 10 2.67

(2.7)

13.00 138 167 166 155 134 140 116 10.5 11.2 123 12.6 81 3.3 3.25
248 243 234 220 215 200 177 173 150 100 50 29 23 14 10 3.15

(3.2)

12.93 13.7 144 158 143 134 153 149 101 7.7 5.5 4.3 4.5 6.5 6.6 6.3 5.8 3.86
257 253 250 241 211 209 207 200 176 167 150 127 100 50 27 21 14 10 3.77

(3.4)

13.8 145 145 138 148 14.2 12.7 11.3 9.2 8.4 6.7 6.1 6.0 5.4 6.9 6.7 4.3 4.43
12.96 262 258 240 217 214 200 128 124 150 121 100 74 50 32 28 23 15 10 4.37
244

(4.4)

NAIL IN T.P. 27. 57.8. 10+0.1.

13.05 140 166 148 120 146 9.3 9.3 146 140 127 109 7.5 7.4 6.5 6.0 7.5 7.6 5.0 5.10
274 270 262 221 224 105 175 181 172 150 123 116 100 72 50 31 26 21 14 10 5.00

✓

13.06 140 167 157 146 135 163 153 9.3 9.4 140 12.7 11.9 11.3 10.2 7.6 6.0 8.2 8.2 5.3 5.60
281 278 271 250 237 215 231 211 200 188 180 147 141 100 77 50 32 27 23 15 10 5.33

(7.5)

13.00 137 151 119 111 114 12.7 12.8 12.6 12.0 10.8 8.9 6.6 4.2 3.2 8.2 8.6 5.9 6.11
270 287 282 276 250 237 208 100 176 150 125 100 75 50 35 25 21 15 10 6.04

(6.0)

3.3 2.5 2.4 3.9 13.6 15.8 13.8 12.90
238 250 255 272 287 294 298 301
4.9 7.5 8.8 8.8 6.6 4.9 4.0 3.0 0.5 1.4 10.8 2.1 4.3 5.0 7.0 7.4 7.0 6.85
221 220 170 173 150 130 100 88 62 50 45 43 39 35 25 21 15 10 6.13

(6.8)

906.18 ✓

12700

99.1

12735

1.65 901.08 ✓ 6.75 899.43 ✓

98.7

13700

97.9

13750

97.5

14700

97.0

14750

96.3

15700

4.04 895.02 ✓ 12.10 888.98 ✓

95.9

14700

13.23 905.53 ✓ 0.72 892.50 ✓

22 3.4 8.1 13.9 15.8 14.1 12.90
 260 274 280 290 297 302 306
 25 34 57 67 62 43 34 11.7 13.0 12.3 11.2 97 72 96 97 73 7.19
 250 232 207 174 174 150 143 127 116 100 77 50 38 26 22 16 10 7.08

(71)

10.4 13.7 15.2 13.6 12.85
 288 297 304 309 311
 5.6 61 70 81 80 6.5 5.5 6.0 4.9 4.3 2.7 1.8 6.2 6.2 9.2 9.2 7.6 7.55
 281 250 223 200 179 150 132 124 120 100 76 50 38 33 25 21 15 10 7.45

(70)

7.77
 322
 8.6 7.6 10.3 8.7 7.8 7.2 7.6 8.5 9.7 11.1 11.4 9.8 9.0 8.2 7.2 3.2 3.34
 317 313 304 300 274 250 223 200 178 150 141 100 77 50 25 15 10 3.18

(32)

16.5 8.8 7.70
 311 326 330
 174 152 142 131 11.7 11.2 11.2 11.2 10.5 10.3 10.3 10.1 9.2 5.7 3.77
 300 274 250 227 200 177 150 125 100 88 50 36 29 16 10 3.64

(36)

7.75 2.6
 338 333
 13.7 11.0 10.2 10.1 10.5 10.4 10.5 4.0 4.20
 150 120 100 77 50 35 27 15 10 4.12

(41)

7.68 8.8
 346 342
 11.4 9.9 4.6 4.86
 30 26 15 10 4.76

7.60 8.6
 334 350
 12.4 5.1 5.25
 30 15 10 5.15

11.3 12.04 13.0 11.2 10.9 8.5 8.5 8.0 8.7
 372 307 306 303 300 250 230 200 186

(40)

NAIL IN TP. LT. STA. 13+80

905.53 ✓

6.96 911.00 1.49 904.04 ✓

B.M.

4.80 906.20 906.22 ✓

2.05 902.59 10.46 900.54 ✓

B.M.

2.67 893.27 11.99 890.60 890.61 ✓

1.24 885.01 11.50 881.77 ✓

1.30 875.32 8.99 874.02 ✓

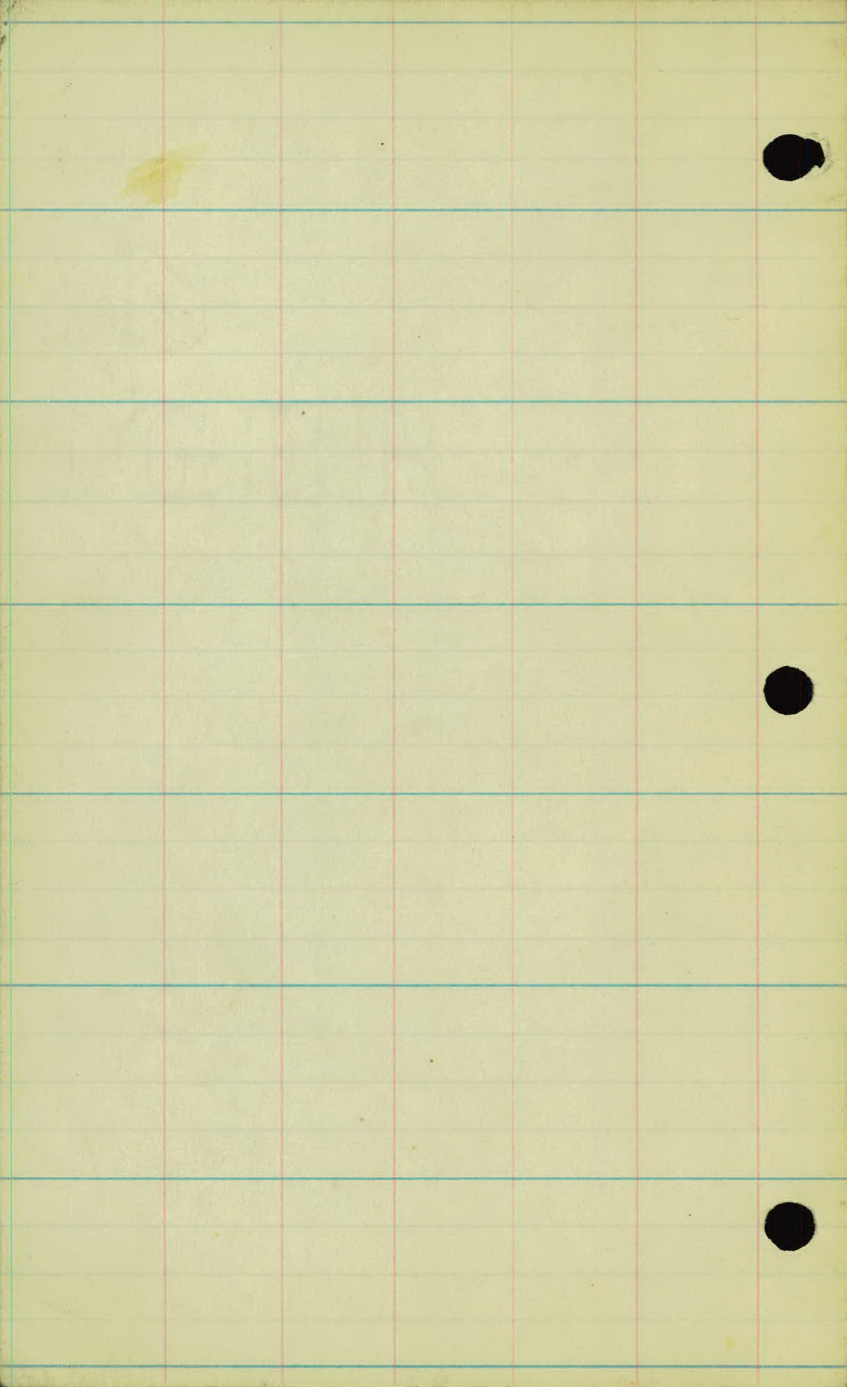
2.79 868.50 9.61 865.71 ✓

B.M.

4.91 863.59 863.60 ✓

TOP OF MONT ON R MT STA 4754 ²⁵

TOP OF MONT 33 L. STA 0700



8

98

97

96

95

94

93

92

91

F. 44
100 T.P. 32

+51 - 24' C.I.P. 57 1/2
74' LONG.

+49 S. DRAIN 33 1/2

F. 44

+80 T.P. 34

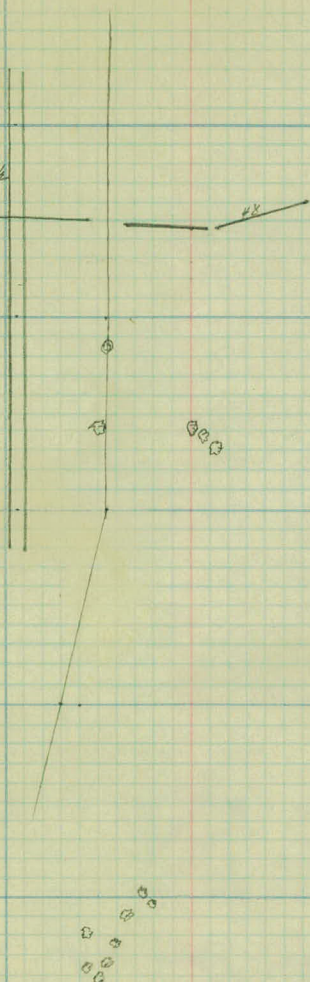
F. 44

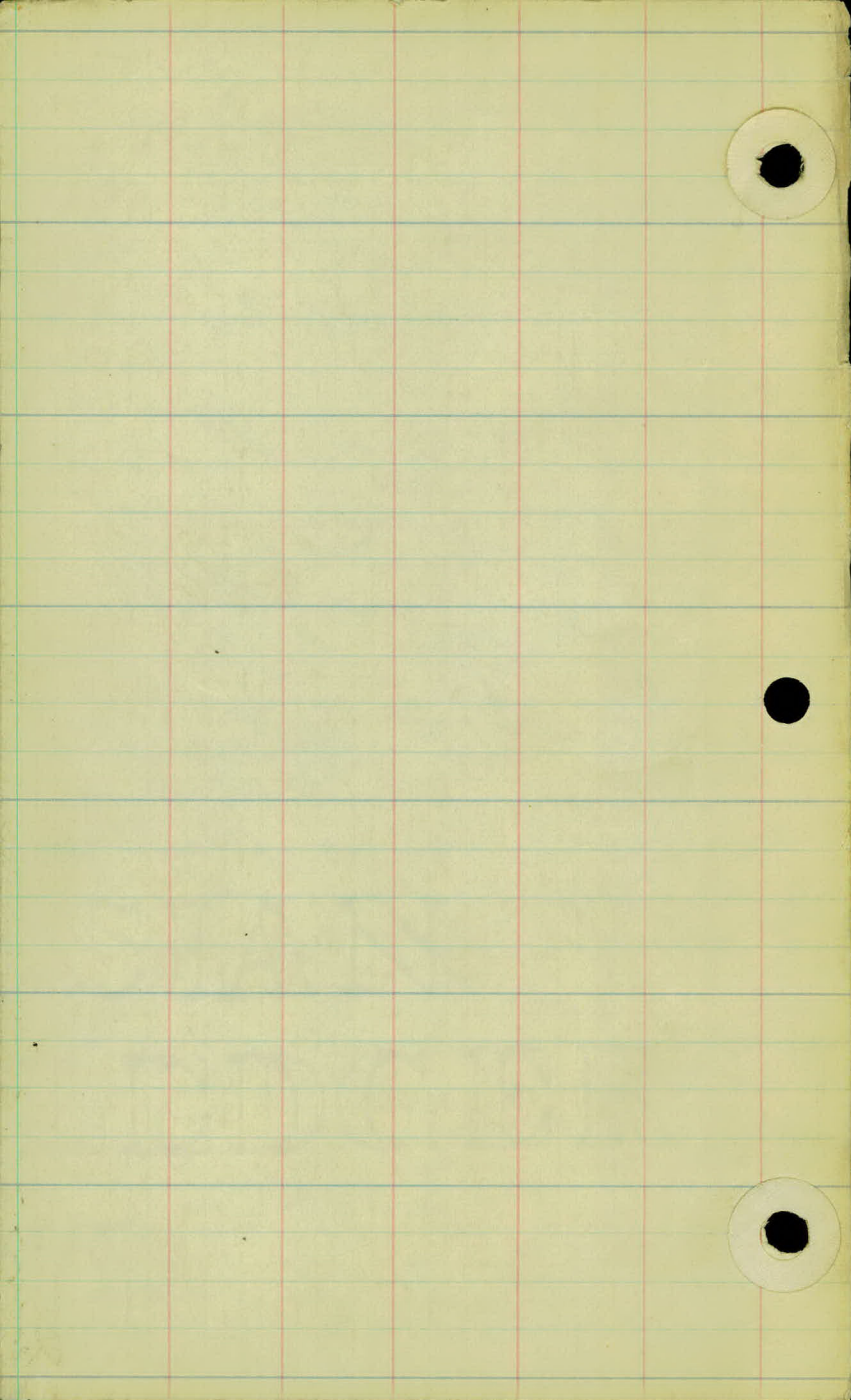
+10 T.P. 41

+61 - P² 58 R.
+47 - 24' P² - 12' R.
48' LONG.

+46 S. DRAIN
EXTENDS 7⁵ R.C. 53 1/2
18"
+15 G. POLE 15

+77 G. POLE 14





9

1000

1

2-18-31

PROJ. 30-10A

FROST AVE.

Elev. along ditches Road Lt.
from Sta. 79+58 To 90+91.

B.M. 2.02 890.54 888.52
79+58 Beg. Lt.

80

+50

81

82

83

+50

84

+50

+60 End Ditch Lt.

T.P. 5.79 888.24 809 882.45

+82 Low land on Lt. Between Sta. 84-86

Spike in P.P. 46' R.R. Sta. 78+39⁹⁹

$$\begin{array}{r} 54 \quad 39 \quad 37 \\ \hline 22 \quad 17 \end{array}$$

$$\begin{array}{r} 6.1 \quad 4.4 \quad 4.2 \\ \hline 22 \quad 18 \end{array}$$

$$\begin{array}{r} 6.8 \quad 5.1 \quad 4.6 \\ \hline 22 \quad 18 \end{array}$$

$$\begin{array}{r} 6.8 \quad 5.2 \quad 4.9 \\ \hline 23 \quad 18 \end{array}$$

$$\begin{array}{r} 7.0 \quad 5.3 \quad 5.0 \\ \hline 24 \quad 18 \end{array}$$

$$\begin{array}{r} 7.2 \quad 5.6 \quad 5.1 \\ \hline 24 \quad 18 \end{array}$$

$$\begin{array}{r} 7.6 \quad 5.7 \quad 5.1 \\ \hline 25 \quad 18 \end{array}$$

$$\begin{array}{r} 8.1 \quad 6.1 \quad 5.7 \\ \hline 25 \quad 18 \end{array}$$

$$\begin{array}{r} 8.1 \quad 5.9 \quad 6.1 \\ \hline 23 \quad 18 \end{array}$$

$$\begin{array}{r} 9.2 \quad 5.8 \quad 6.1 \\ \hline 24 \quad 18 \end{array}$$

$$\begin{array}{r} 11.6 \quad 6.2 \quad 6.4 \\ \hline 26 \quad 18 \end{array}$$

$$\begin{array}{r} 11.8 \quad 6.2 \quad 6.4 \\ \hline 26 \quad 18 \end{array}$$

R.R.P. (cont)

$$\begin{array}{r} 140.2 \quad 14.8 \quad 12.8 \quad 10.8 \quad 9.4 \quad 4.0 \quad 4.2 \\ \hline 115 \quad 105 \quad 75 \quad 50 \quad 28 \quad 19 \end{array}$$

888.24

85+00

+12 Beg. Ditch Rt. and Lt.

+50

86

+50

87

+50

88

+50

89

B.M.

6.37 881.84 881.88

+32

90

+63 Ctr. 18" x 7' Masonry Headwall Lt.

+91 " " x 8' " " Rt.

Lt. £ Pt

$$\frac{82}{28} \quad \frac{38}{19} \quad 44 \quad \frac{5.7}{18} \quad \frac{11.0}{29}$$

$$\frac{78}{28} \quad \frac{3.8}{20} \quad 44 \quad \frac{6.0}{18} \quad \frac{10.5}{27}$$

$$\frac{7.0}{23} \quad \frac{3.8}{18} \quad 44 \quad \frac{6.0}{18} \quad \frac{9.5}{25}$$

$$\frac{7.0}{23} \quad \frac{4.4}{19} \quad 4.8 \quad \frac{6.5}{18} \quad \frac{9.0}{24}$$

$$\frac{7.4}{24} \quad \frac{4.5}{19} \quad 5.0 \quad \frac{6.2}{16} \quad \frac{9.0}{21}$$

$$\frac{7.0}{23} \quad \frac{5.0}{19} \quad 5.1 \quad \frac{6.7}{19} \quad \frac{9.1}{22}$$

$$\frac{7.4}{23} \quad \frac{5.0}{18} \quad 5.5 \quad \frac{7.0}{18} \quad \frac{9.2}{22}$$

$$\frac{7.3}{22} \quad \frac{5.1}{18} \quad 5.7 \quad \frac{7.0}{18} \quad \frac{9.2}{21}$$

$$\frac{7.7}{22} \quad \frac{5.6}{19} \quad 6.0 \quad \frac{7.6}{18} \quad \frac{9.8}{22}$$

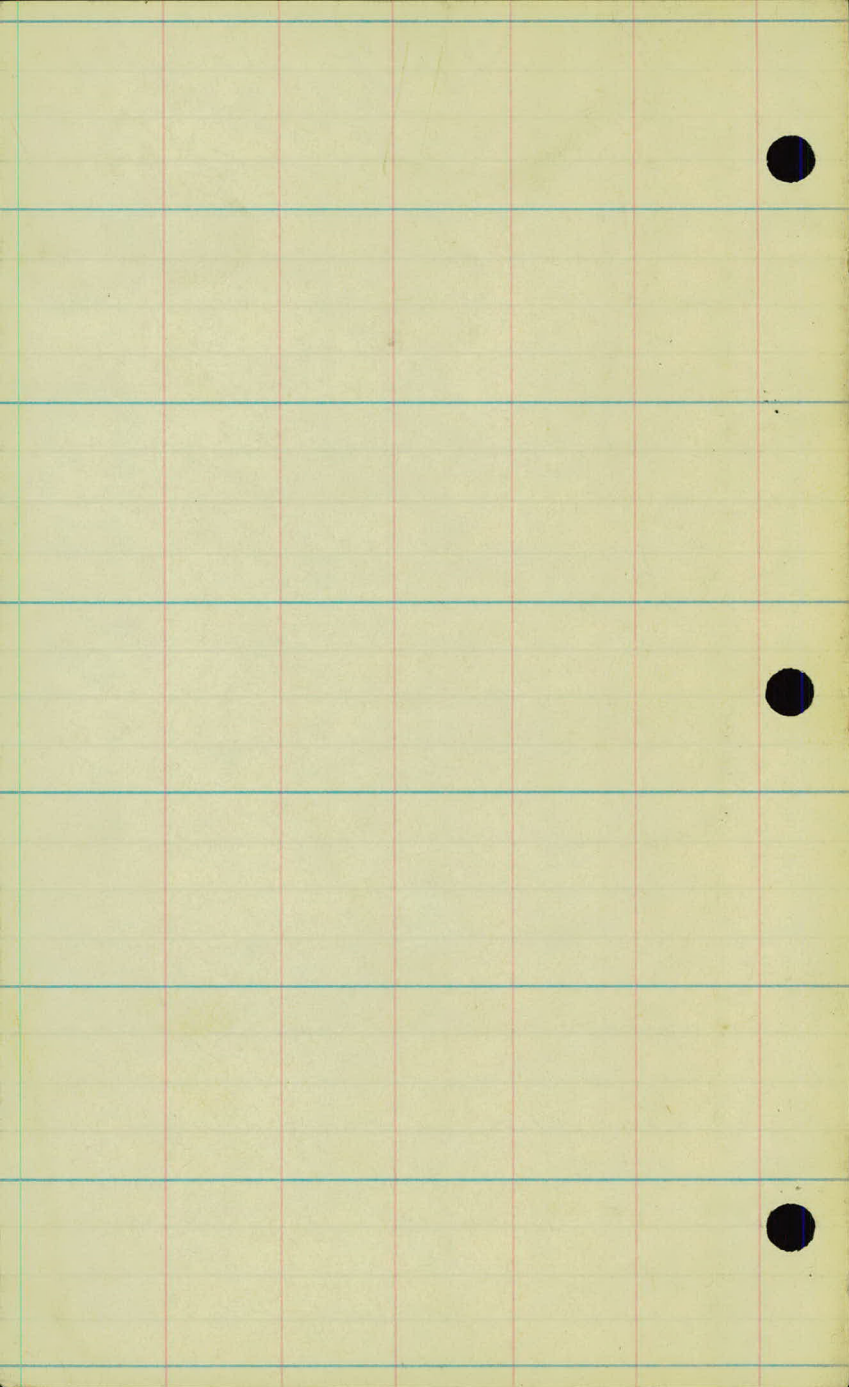
$$\frac{8.8}{23} \quad \frac{6.0}{18} \quad 6.3 \quad \frac{7.5}{18} \quad \frac{9.8}{22}$$

Cor Bridge

$$\frac{8.8}{23} \quad \frac{6.4}{18} \quad 6.3 \quad \frac{7.2}{18} \quad \frac{9.5}{23}$$

$$\frac{9.2}{23} \quad \frac{6.8}{18} \quad 6.4 \quad \frac{7.2}{19} \quad \frac{9.5}{23}$$

invert + $\frac{9.75}{23} \quad \frac{6.8}{18} \quad 6.6$
 $\frac{7.0}{20} \quad \frac{7.4}{20} \quad \frac{10.75}{26}$ invert.



02521