1559

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be 30.6+(20—16)÷2 or 2 ft. added to 30.6 =32.6. For slopes of 1 on 1½ see inside of back cover.

The paper stock of this book is made of a **high grade 50% rag** paper having a **water resisting surface** and is sewed with Bing **Special Enamel Waterproof Thread.**

Made in U. S. A.

Road Survey

W'ly side Lower OTay Dam.

B.C. Lt. 613 + 06.31 S. 46° 39 E ✓

5 + 50.94 E.C.

A = 31° 34' Rt.

R = 1000

T = 282.66 ✓

610 + 04.28 P.I. L = 550.94 ✓

+ 82.66 1.7189

0 + 00 = 607 + 21.62 ✓ B.C. Rt. S. 78° 13 E. ✓

See Co. Survey of Road

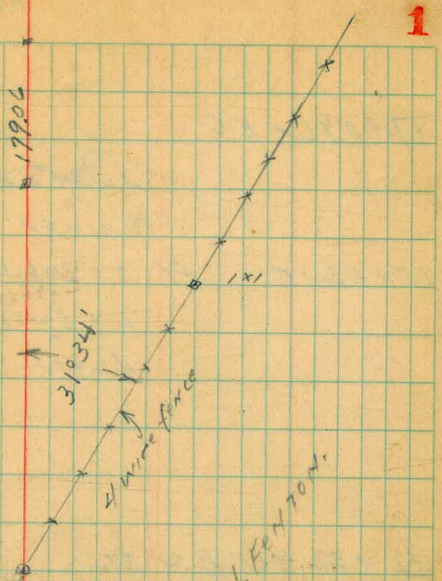
N'ly of OTay Lake

Moore
Northern
Huntley

8-15-38.

Fd. pin by Richie Co. Engr.

1



M.P.H.		Fd. Sp. Ac
	5 + 50.94	15° 47.00
5		14° 19.40
	+ 50	12° 53.46
4		11° 27.52
	+ 50	10° 01.58
3		8° 35.64
	+ 50	7° 09.70
2		5° 43.76
	+ 50	4° 17.82
1		2° 51.88
	+ 50	1° 25.94
0	0	

17+59.62 E.C.

Δ = 74°52' Rt.

R = 400

15+43.15 P.I. T = 306.19

L = 522.66

4.29°

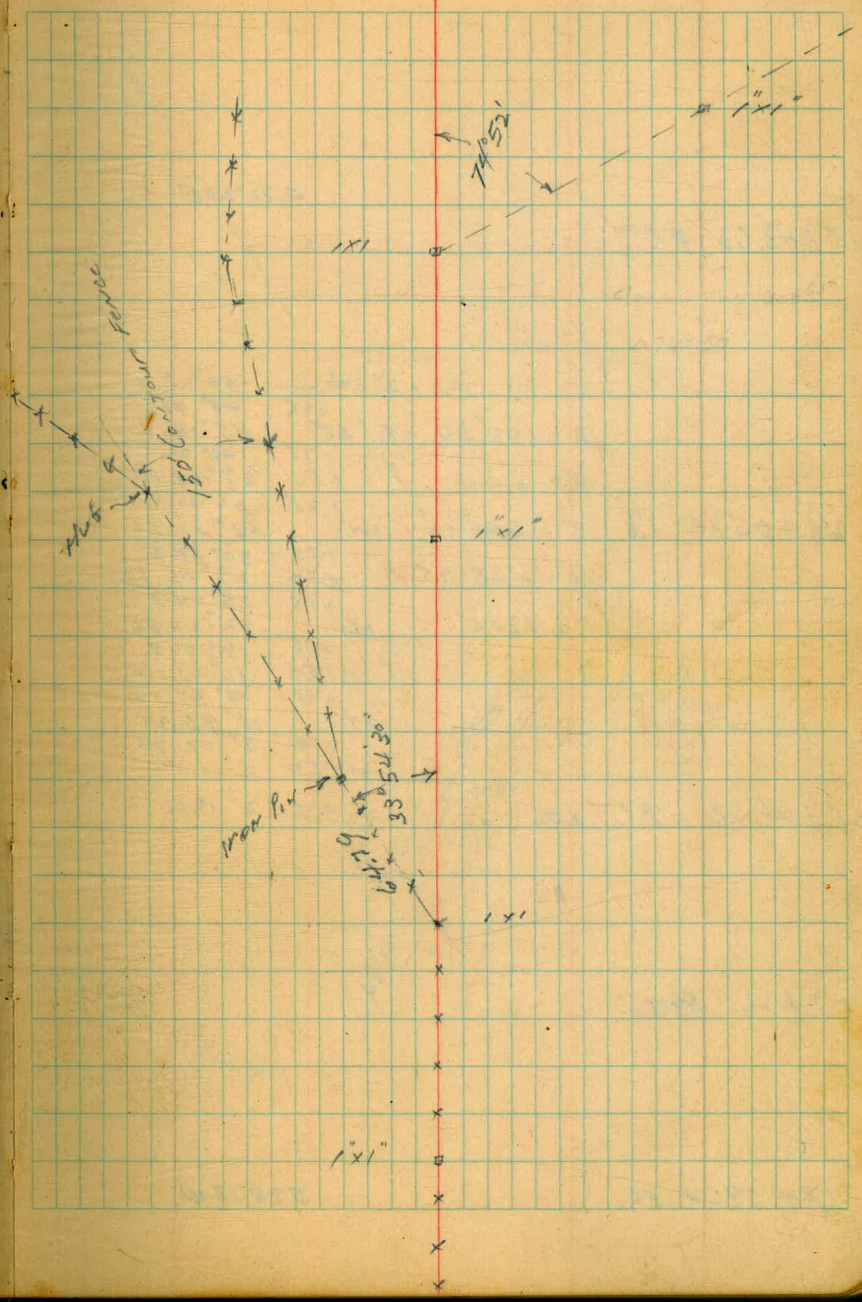
12+36.96 B.C. Rt.

7+36.29 INT. T.C

5+50.94 E.C.

E.C.	17+59.62	37°36.00
	+50	36°44.70
	17	33°09.60
	+50	29°34.74
	16	26°00.00
	+50	22°25.07
	15	18°50.16
	+50	15°15.20
	14	11°40.44
	+50	8°05.58
	13	4°30.72
	+50	0°55.86

546°39'E



S. 72°23' E ✓

25+43.63 E.C. ✓

E.C. = 25+43.63 — 50° 18.0

+25 — 48° 09.9

Δ = 100° 36' Lt. — 25 — 45° 18.0 ✓

+75 — 42° 26.0

R = 250 — +50 — 39° 34.14

+25 — 36° 42.2

24+05.80 P.I. T = 301.12 ✓ — 24 — 33° 50.36

+75 — 30° 58.5

L = 438.95 ✓ — +50 — 28° 06.58

+25 — 25° 14.7

L. 8755 — 23 — 22° 22.80

+75 — 19° 30.9

+50 — 16° 39.02

+25 — 13° 47.14

22 — 10° 55.24

+75 — 8° 03.34

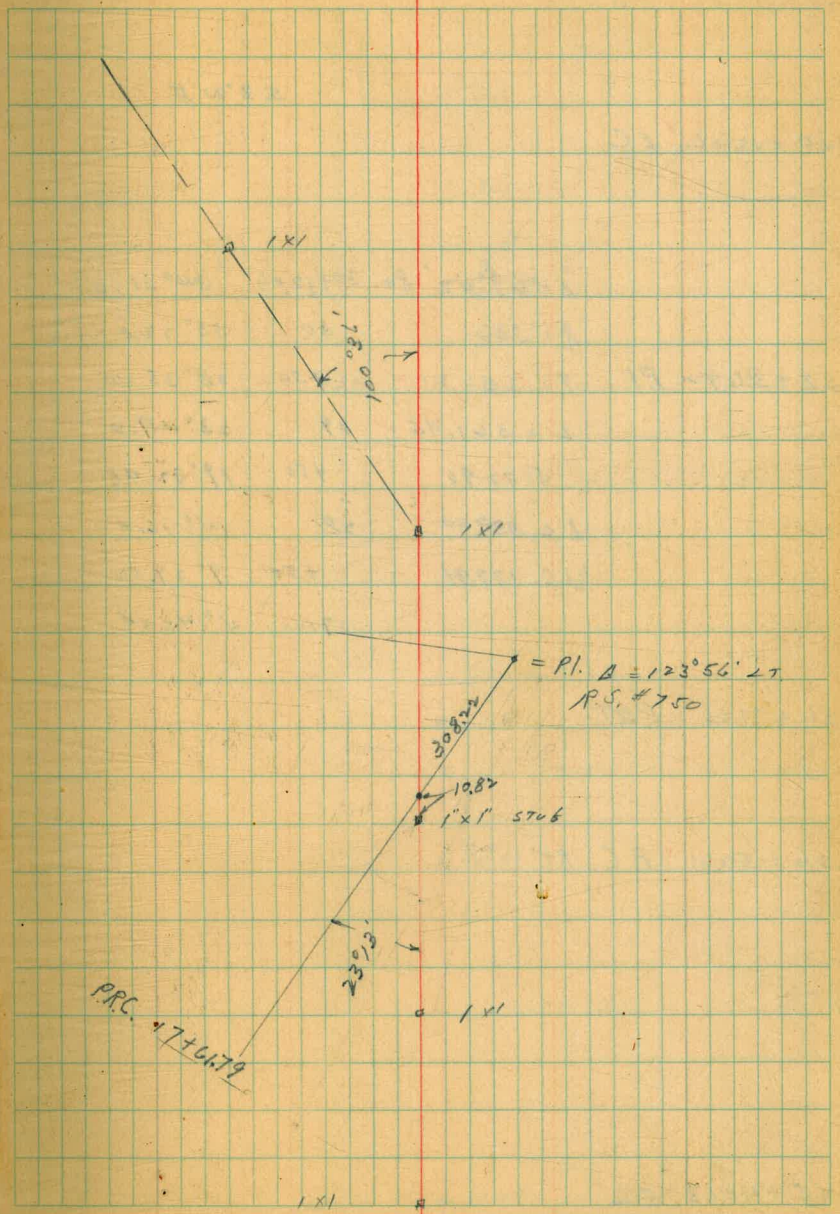
21+50 — 5° 11.46

21+04.68 P.C. Lt. — +25 — 2° 19.56

19+26 P.O.T.

17+59.62 ✓ E.C.

S 28°13' W ✓



S. 3°21' E

30+12.06 E.C.

Δ = 69°02' Rt

R = 300

28+56.92 P.I. T = 204.31

L = 361.45

S. 72 96

L.C. 339.99

½L.C. 177.91

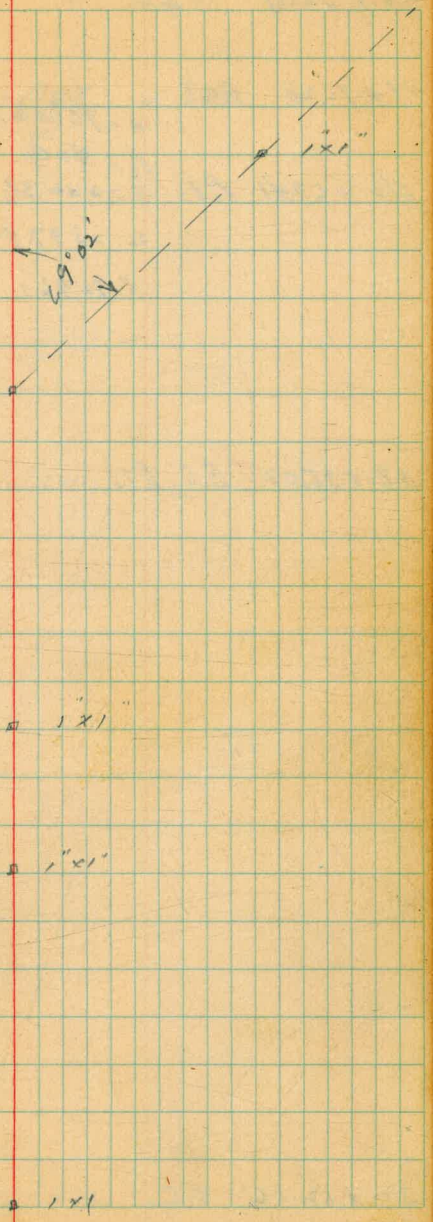
30+12.06	34°31.0
30	33°22.0
+50	28°35.04
29	23°49.0
+50	19°02.48
28	14°16.0
+50	9°29.52
27+00	4°43.04

26+91.66 P.O.T.

26+50.61 B.C. Rt.

25+43.63 E.C.

S. 72°23' E



42 + 32.97 E.C.

41 + 76.28 P.O.T.

$\Delta = 76°00'$ Rt.

$R = 300$

40 + 69.41 P.I. $T = 234.38$ ✓

$L = 397.94$ ✓

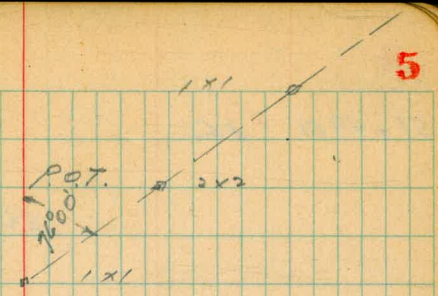
5.7296

38 + 35.03 ✓ B.C. Rt.

30 + 12.06 E.C.

42 + 32.97		38°00.0
42		34°51.2
	+50	30°04.8
41		25°18.8
	+50	20°31.8
40		15°45.4
	+50	10°58.9
39		6°12.4
38+50		1°25.9

S. 3°21' E ✓



1 x 1

46°

1 x 1

S. 70° 23' E

51+49.01 E.C.

E.C. 51+49.01 71° 31'
+25 68° 14.4
51 64° 49.8
+75 61° 25'
+50 58° 00.4
+25 54° 35.6
50 51° 11.0
+75 47° 46.3
+50 44° 21.7
+25 40° 57.1
49 37° 32.5
+75 34° 07.8
+50 30° 43.2
+25 27° 18.6
48 23° 54.0
+75 20° 29.3'
+50 17° 04.7
+25 13° 40.1
47 10° 15.5
+75 7° 50.8
46+50 3° 26.2

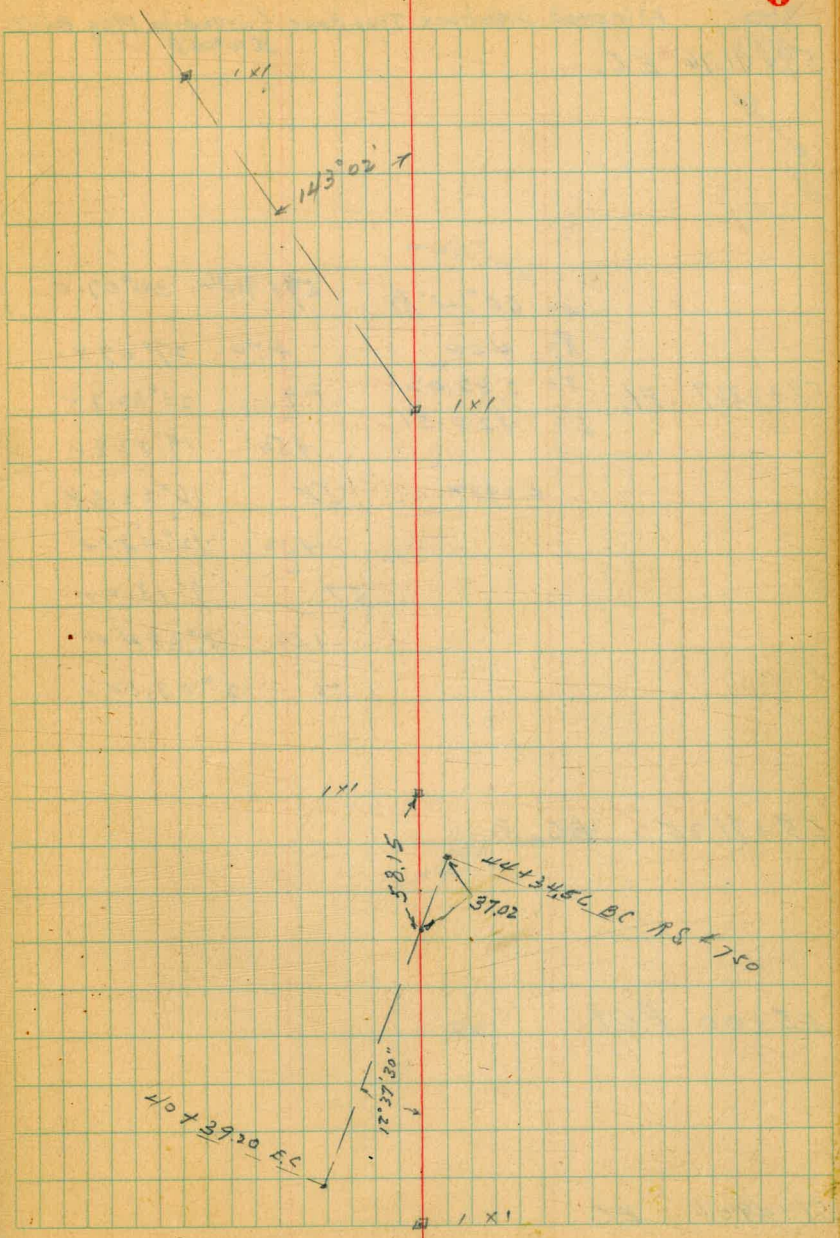
Δ = 143° 02' Lt.
R = 210
T = 428.23
L = 524.24
8.1851 = 1'
ch = 49.88
C = 398.33
R. 260 = 6.61105

52+53.00 P.I.

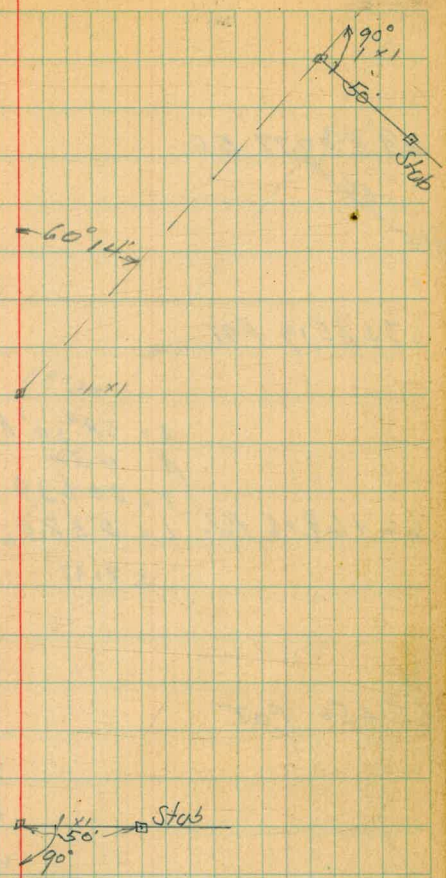
46+24.77 B.C. Lt.

42+37.97 E.C.

S. 72° 39' W



Sta	Alinement	Deflections	True Bear	Curve data	Mag Bear.
59+91.76	E.C.,			S.10°09'E	
			59+91.76		30°07.0
	Δ = 60°14' Rt		+50		27°07.5
	R = 400				
58+03.27	P.I., T = 232.02		59		23°32.7
	L = 420.51		+50		19°57.8
		4.29	58		16°23.0
			+50		12°48.1
			57		9°13.2
			+50		5°38.4
			56		2°03.5
55+71.25	B.C. Rt.				
55+00	P.O.T.				
51+49.01	E.C.				
				S.70°23'E	



S. 58°21' W ✓

69+00.77 E.C. ✓

67+85.19 P.O.T.

69+00.77 34°15'

Δ = 68°30' Rt. +50 31°01.7 ✓

R = 450

T = 306.39 ✓ 68+0 27°50.7 ✓

66+69.16 P.I. L = 538.0 ✓ +50 24°39.7 ✓

3.8197 67 21°28.7 ✓ p.o.c

+50 18°17.7

66 15°06.2

65+50 P.O.T. +50 11°55.7

65 8°44.2

+50 5°33.3

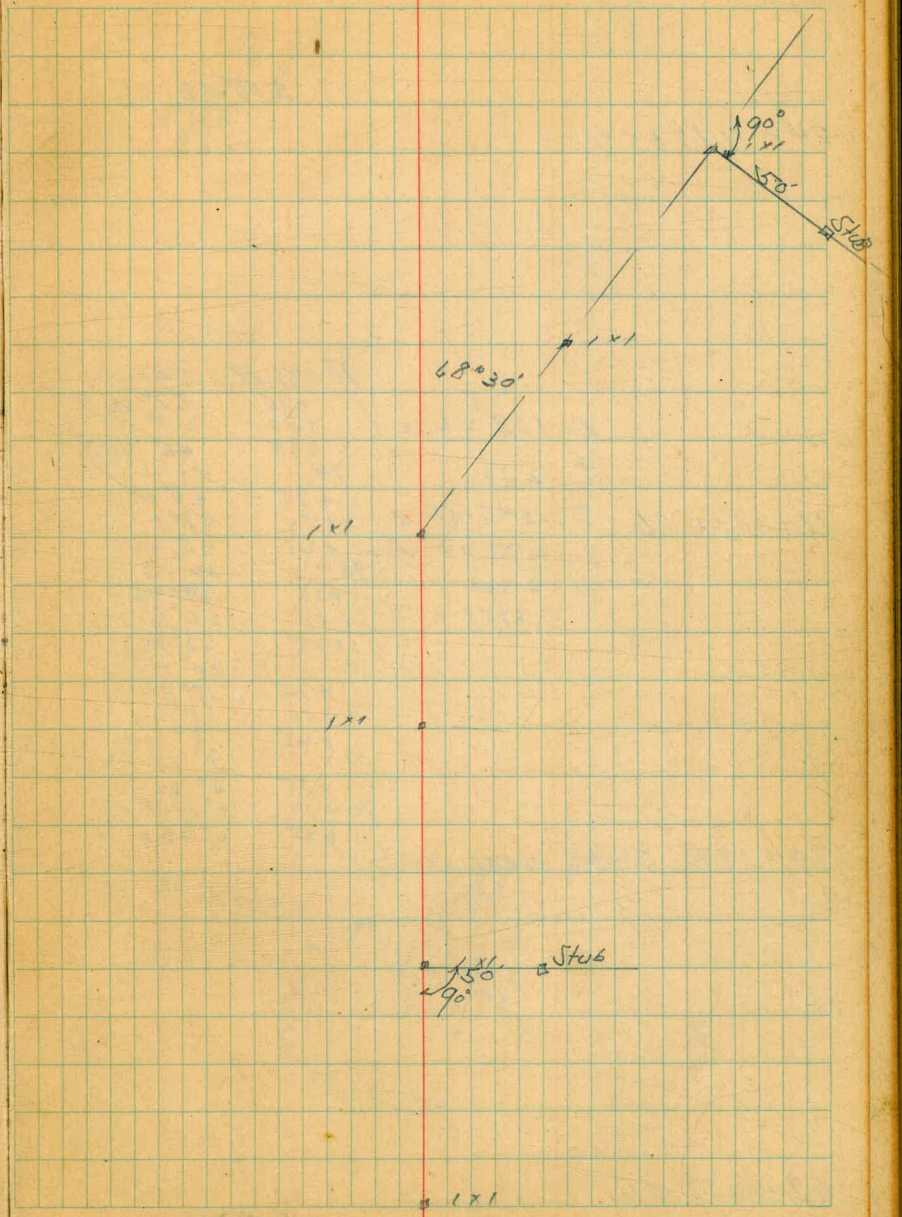
64+00 2°22.2

63+62.77 B.C. Rt. ✓

37.01

59+91.76 E.C.

S. 10°09' E ✓



S.50°05'E

74+91.89 E.C. Fd Hub

Δ = 108° 26' Lt.
R = 250
73+65.61 P.I. T = 346.85
L = 473.13
L.C. = 405.62
6.8755

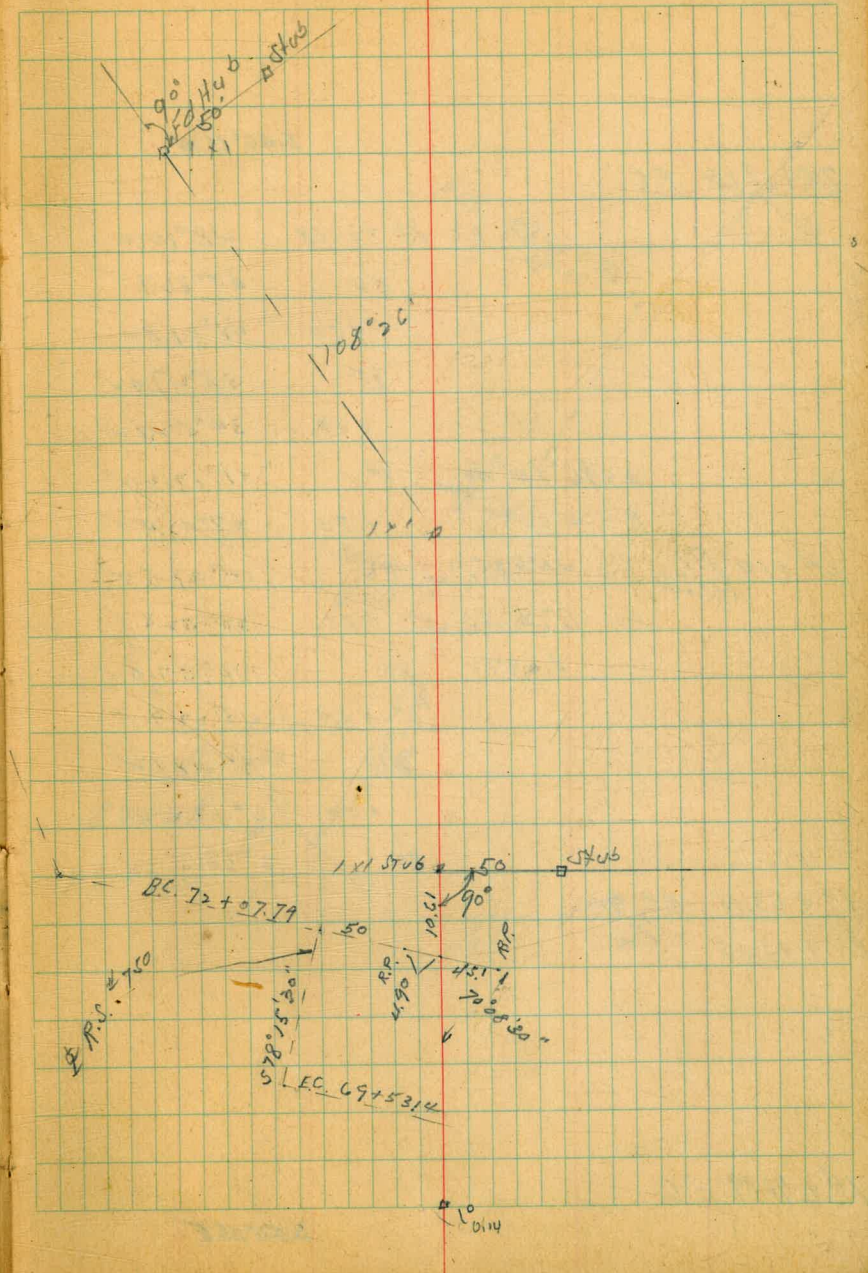
74+91.89	54° 13.0
+75	52° 16.9
+50	49° 35.1
+25	46° 33.3
74	43° 41.1
+75	40° 49.2
+50	37° 57.5
+25	35° 05.8
73	32° 13.7
+75	29° 22.0
+50	26° 30.0
+25	23° 38.1
72	20° 46.1
+75	17° 54.2
+50	15° 02.3
+25	12° 10.2
71	9° 18.5
+75	6° 26.7
70+50	3° 34.8
+25	0° 43.0

70+18.76 B.C.Lt. Hub Fd.

117.99

69+00.77 E.C.

S.5821'W



S.46° 15' W

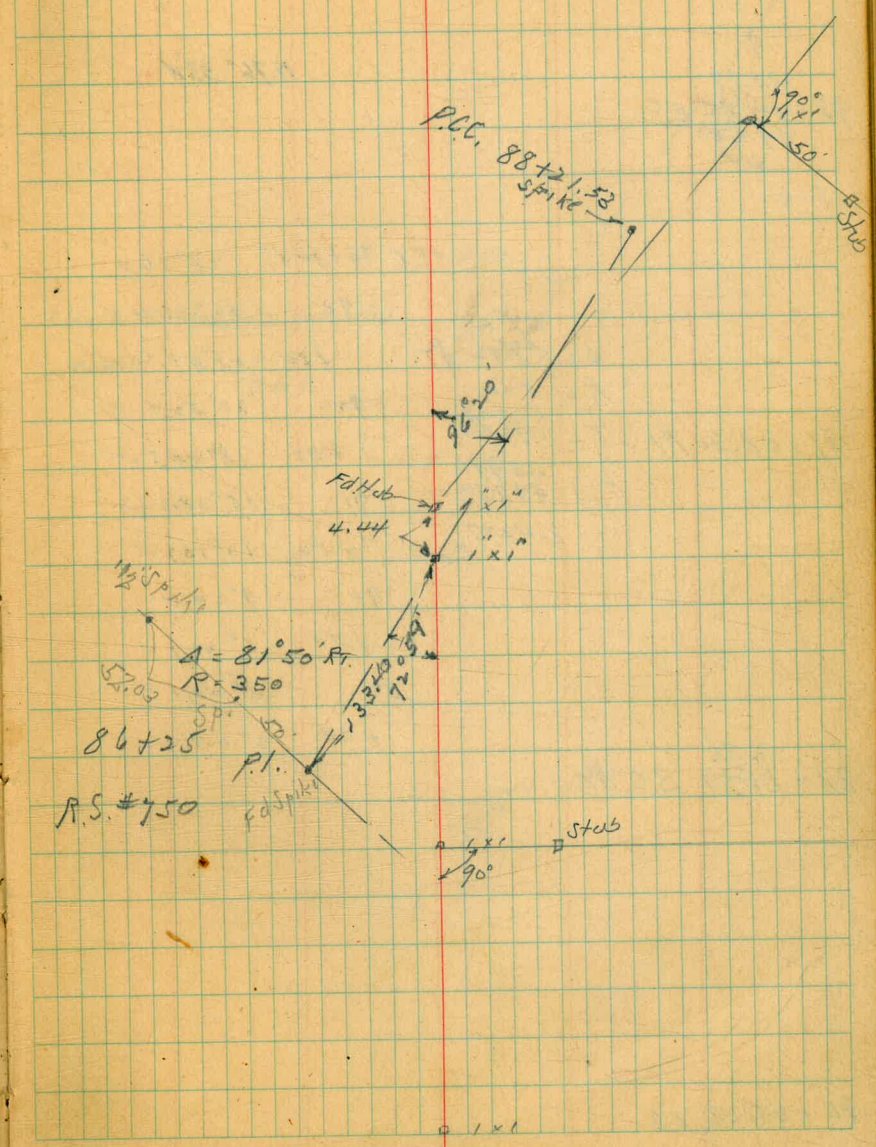
86+35.68 E.C.

EC	86+35.68	48°10.0
	80	45°36.7
	+50	42°01.8
	85	38°27.0
	+50	34°52.1
Δ = 96°20' Rt.	84	31°17.2
R = 400	+50	27°42.4
84+10 Pl. T = 446.85	83	24°07.5
Fd Stub L = 672.53	+50	20°32.6
4.2972	82	16°57.8
	+50	13°22.9
	81	9°48.1
	+50	6°13.2
	80	2°38.3

79+63.15 E.C. Rt.
80+13.15 = E8.

74+91.89 E.C.

S.50°05'E



N. 76° 33' W ✓

34.28
93 + 34.85 E.C. ✓
34.55

E.C. 93+34.85 = 28° 36.0

	93	26° 36.2 ✓
	+50	23° 44.2 ✓
	92	20° 52.4 ✓
	+50	18° 00.5 ✓
	91	15° 08.6 ✓
	+50	12° 16.7 ✓
	90	9° 24.8
	+50	6° 32.9 ✓
	89	3° 41.1 ✓
	+50	0° 49.2 ✓

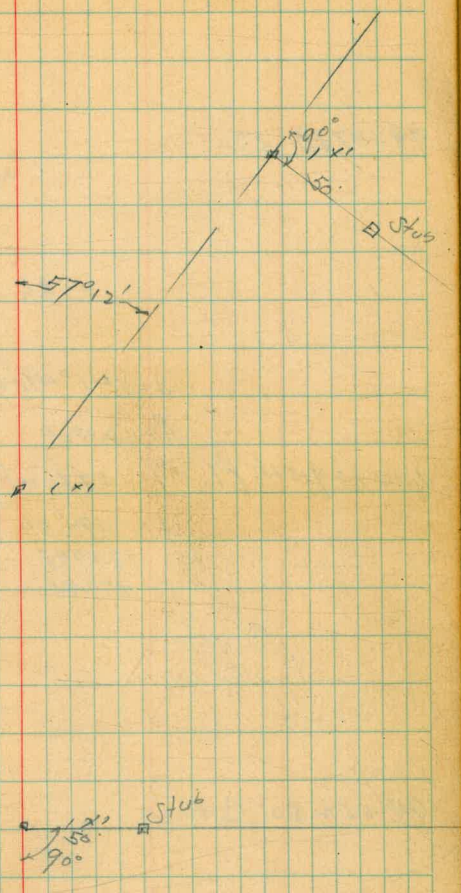
57° 06'
Δ = 57° 12' Rt.
R = 500
272.04
T = 285.64 ✓
L = 499.14 ✓
498.29
3.4377 D.C.

91 + 08.34 P.I.

36.26
88 + 35.69 B.C. Rt ✓

86 + 35.68 E.C.

S. 46° 15' W. ✓



Check C. Moore's original
Work. 4-22-40
R.A.S.

S.38°19'E ✓

99+47.38 E.C. ✓

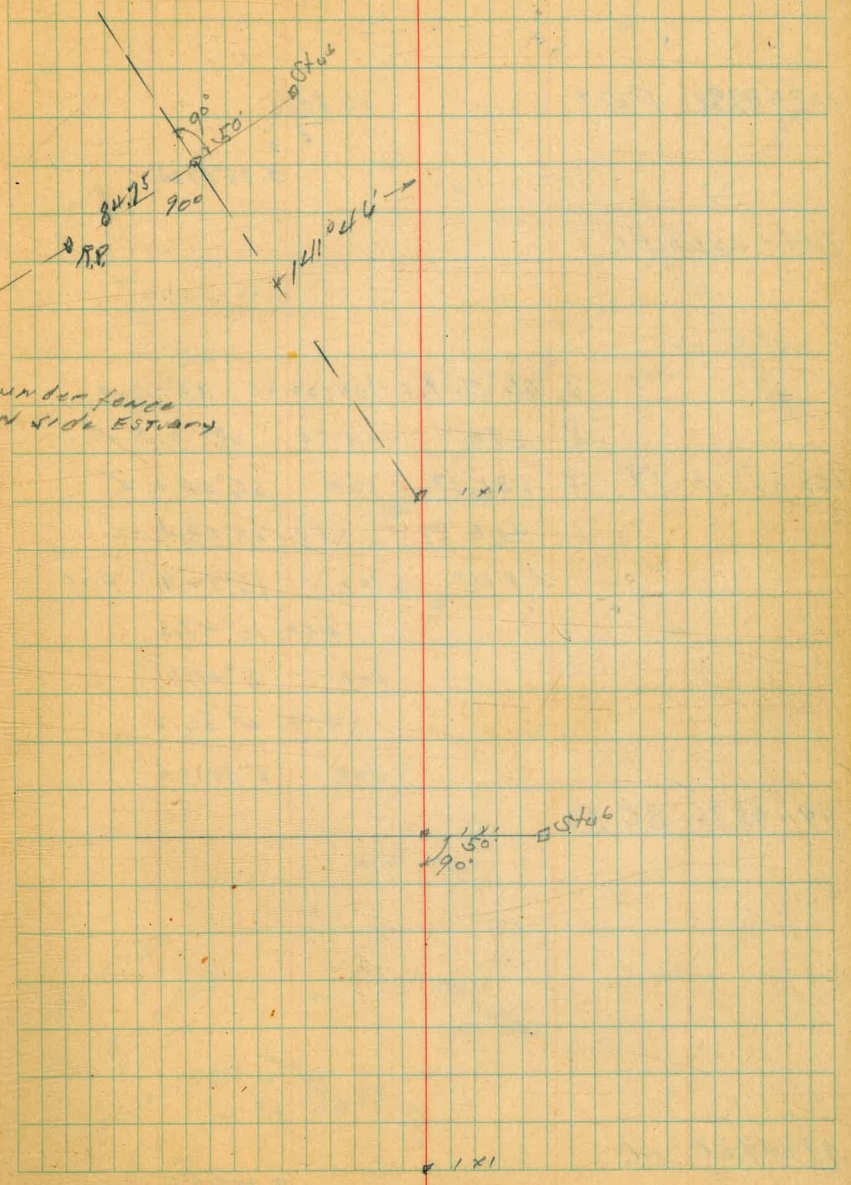
E.C. 99+47.38		70°53.0	
	+25	67°40.7	
99		64°06.0 ✓	
	+75	60°31	
Δ=141°46'Lt.	+50	56°56.3 ✓	
	+25	53°21.3	
R=200	98	49°46.5 ✓	
	+75	46°11.6	
100+29.54=P.I. T=577.02 ✓	+50	42°36.8 ✓	
	+25	39°01.9	
L=494.86 ✓	97	35°27.1 ✓	
8.5943	+75	31°52.2	
	+50	28°17.4 ✓	
C=377.94	+25	24°42.5	
	96	21°07.7 ✓	
	+75	17°32.8	
	+50	13°58.0 ✓	
	+25	10°23.1	
	95	6°48.2 ✓	
	+75	3°13.4	

94+52.52 ✓ B C Lt.

117.62

93+34.85 E.C.

N76°33'W ✓



107+97.90 P.O.T. Saddle

S. 28°37' W

104+02.63 E.C.

Δ = 66°56' Rt. 104+02.63 33°28.0

R = 350 +50 29°10.5

102+25.13 = P.I. T = 231.37 103 25°04.0

L = 408.87 +50 20°58.4

4.9111 102 16°52.9 P.O.C.

+50 12°47.3

101 8°41.7

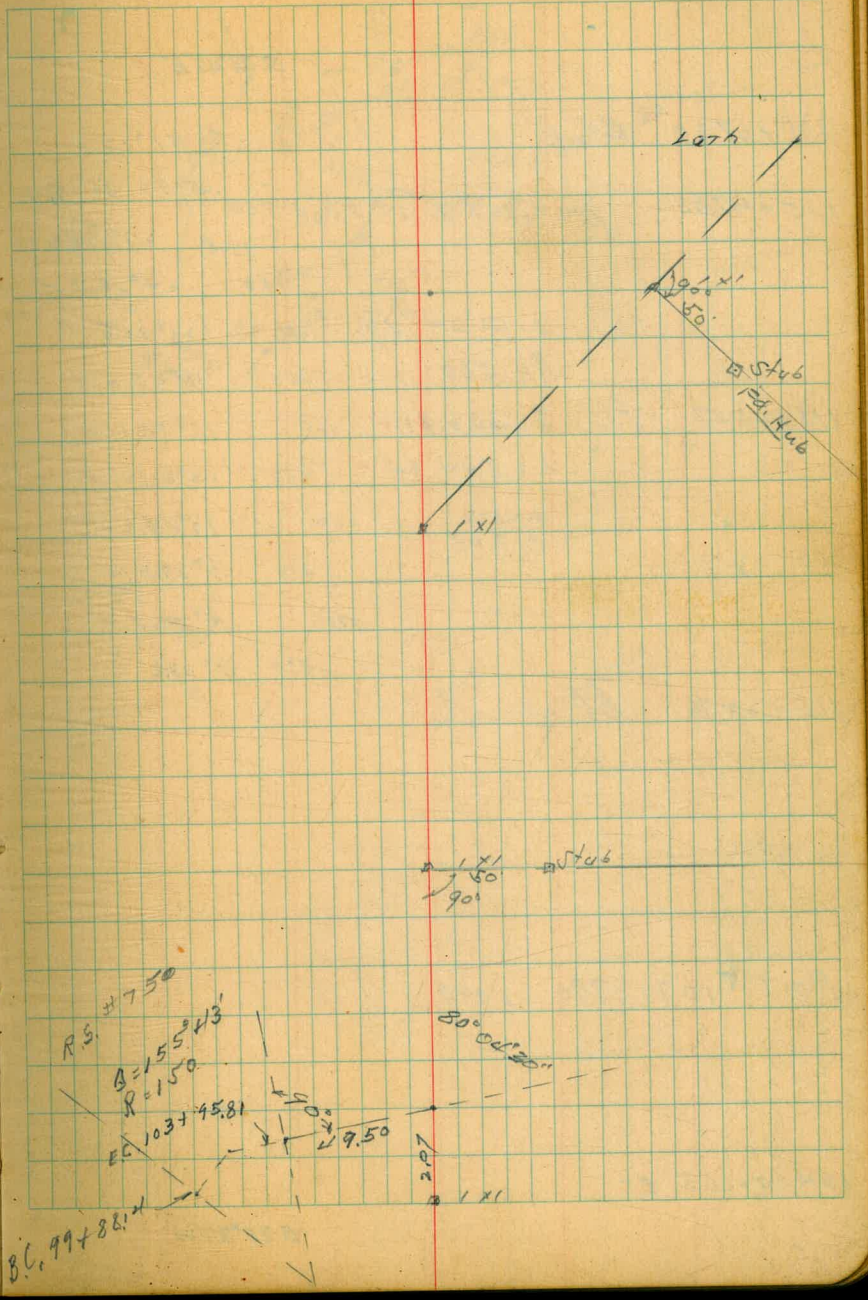
+50 4°36.4

100 0°30.6

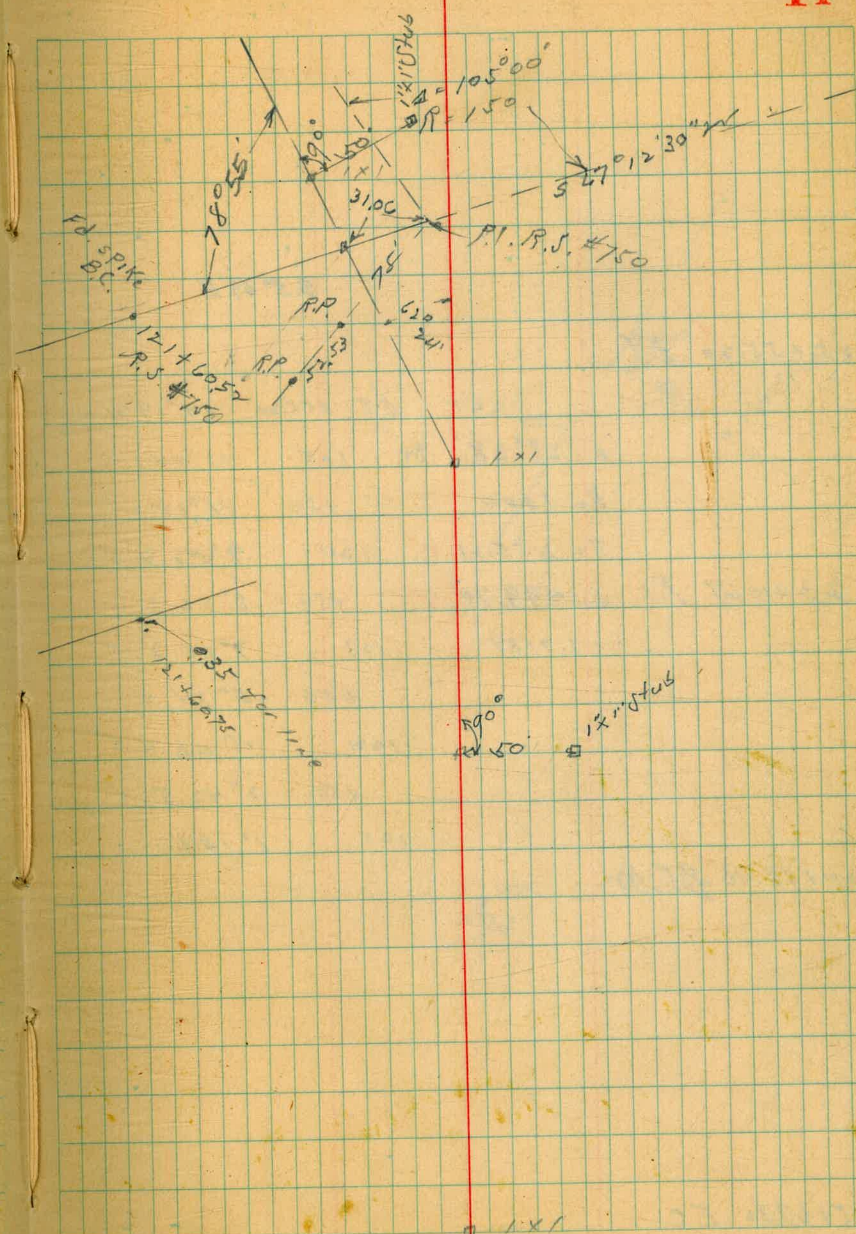
99+93.76 B.C. Rt.

99+47.38 E.C.

S. 38°19' E



			S.33°47'E ✓	
115+67.30 ✓	E.C.			31°13.0
			+50	30°12.5
115+47.88	INT. of T. of R.S. #750		115	27°20.4 ✓
			+50	24°28.7 ✓
		Δ=62°24' Lt.	114	21°36.8 ✓
		R= 500	+50	18°45.0 ✓
113+25.57	= P.I.	T= 302.81 ✓	113	15°53.1 ✓
		L= 544.54 ✓	+50	13°01.2 ✓
		3.4377	112	10°09.3 ✓
		C 518.03	+50	7°17.4 ✓
			111	4°25.5 ✓
			+50	1°33.6
110+22.76 ✓	BC. Lt.			
P.O.T. 107+97.90	cart			
104+02.63	EC.			
			S.28°37'W ✓	



S.5° 09' E

125+55.20 E.C.

E.C. 125+55.20 14° 19.0

Δ = 28° 38' Rt. 125 12° 44.1

R = 1000 +50 11° 18.1

T = 255.21 124 9° 52.2

123+10.67 P.I. L = 499.74 +50 8° 26.3

1.7189 123 7° 00.3

+50 5° 34.

122 4° 08.

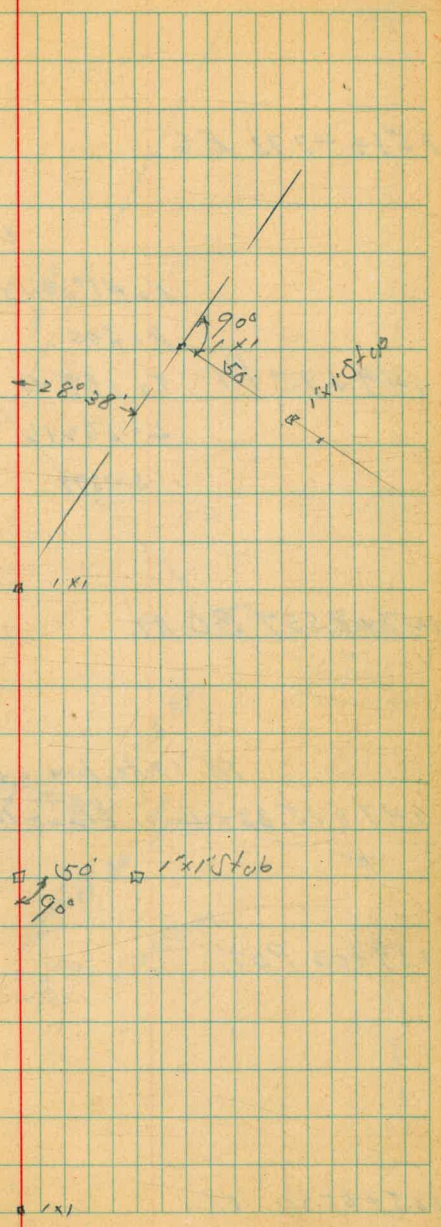
+50 2° 42.5

121 1° 16.6

120+55.46 B.C. Rt

115+67.30 E.C.

S.33° 47' E.



151+47.73 E.C.

	E.C. +47.73	20°45.0
Δ = 41°30' Rt	151	18°01.0
R = 500	+50	15°09.1
149+75 P.I. T = 189.43	150	12°17.2
L = 362.16	+50	9°25.3
3.4377	149	6°33.4
	+50	3°41.5
	148	0°49.6

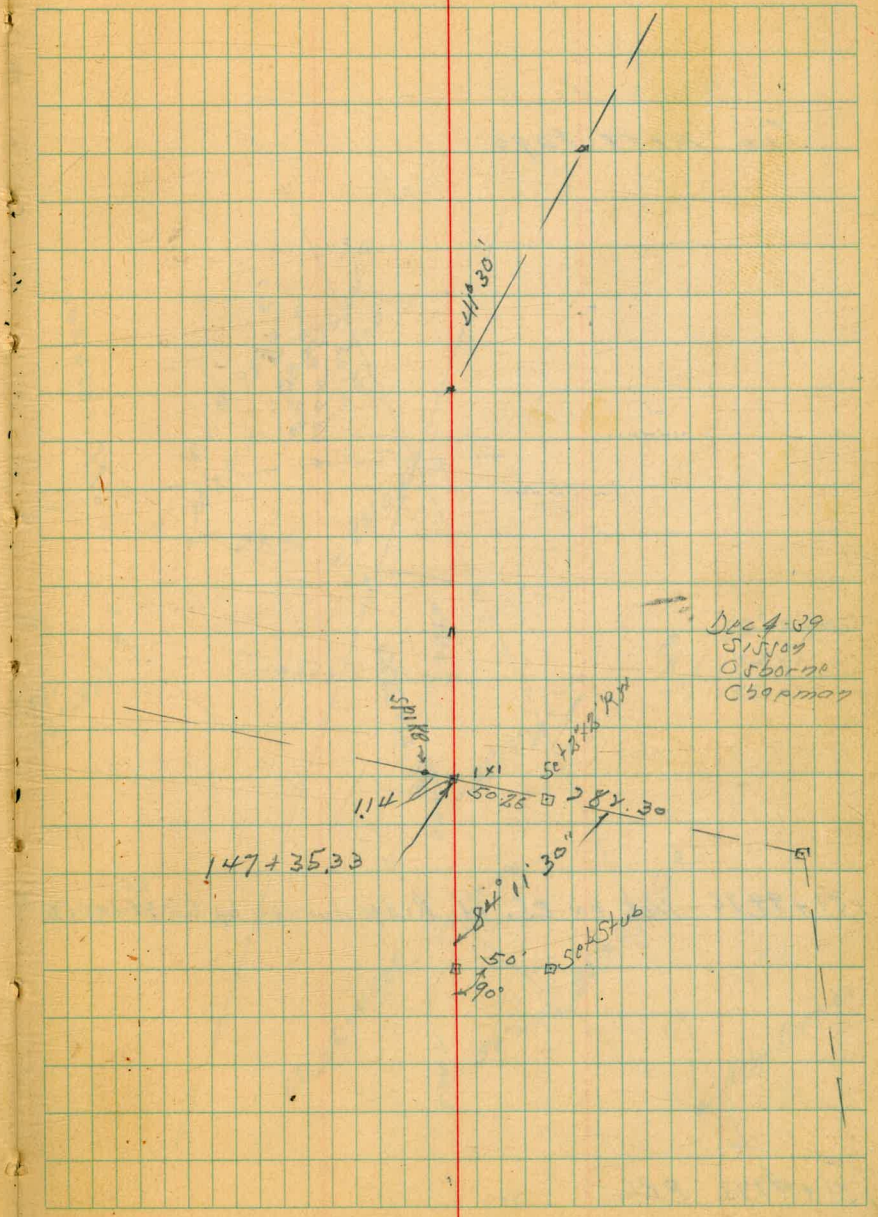
147+85.57 B.C.Rt.

Fd. Spike Int. of Grant Line R.S. #750

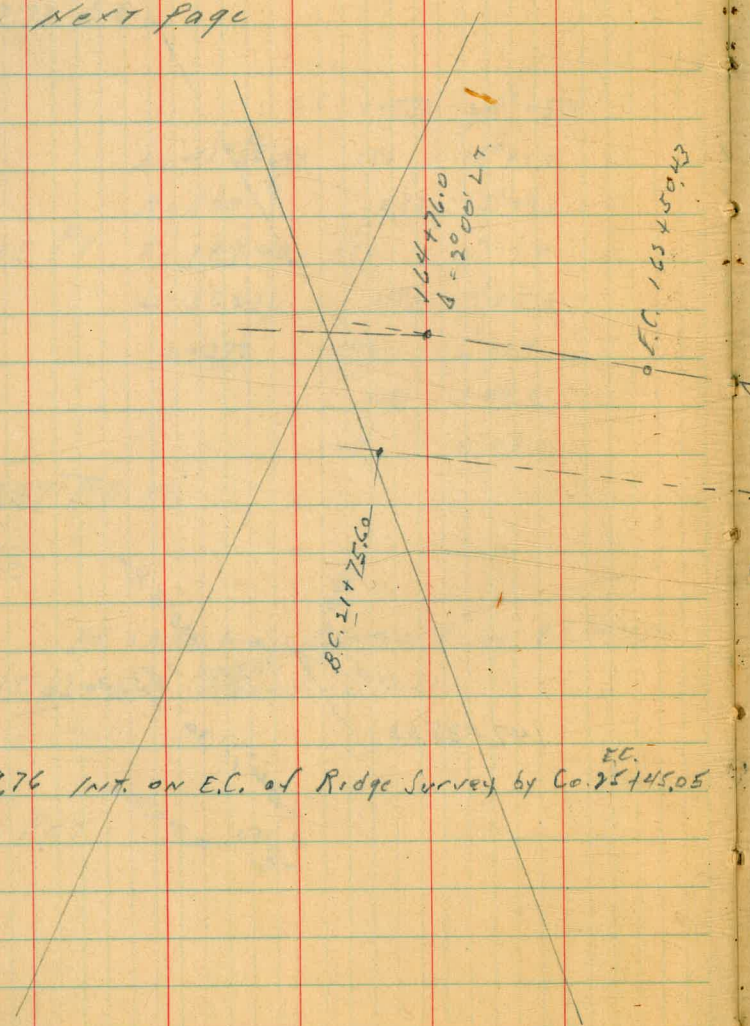
147+35.33 Int. Grant Line 1x1

139+00 P.O.T.

125+55.20 E.C.

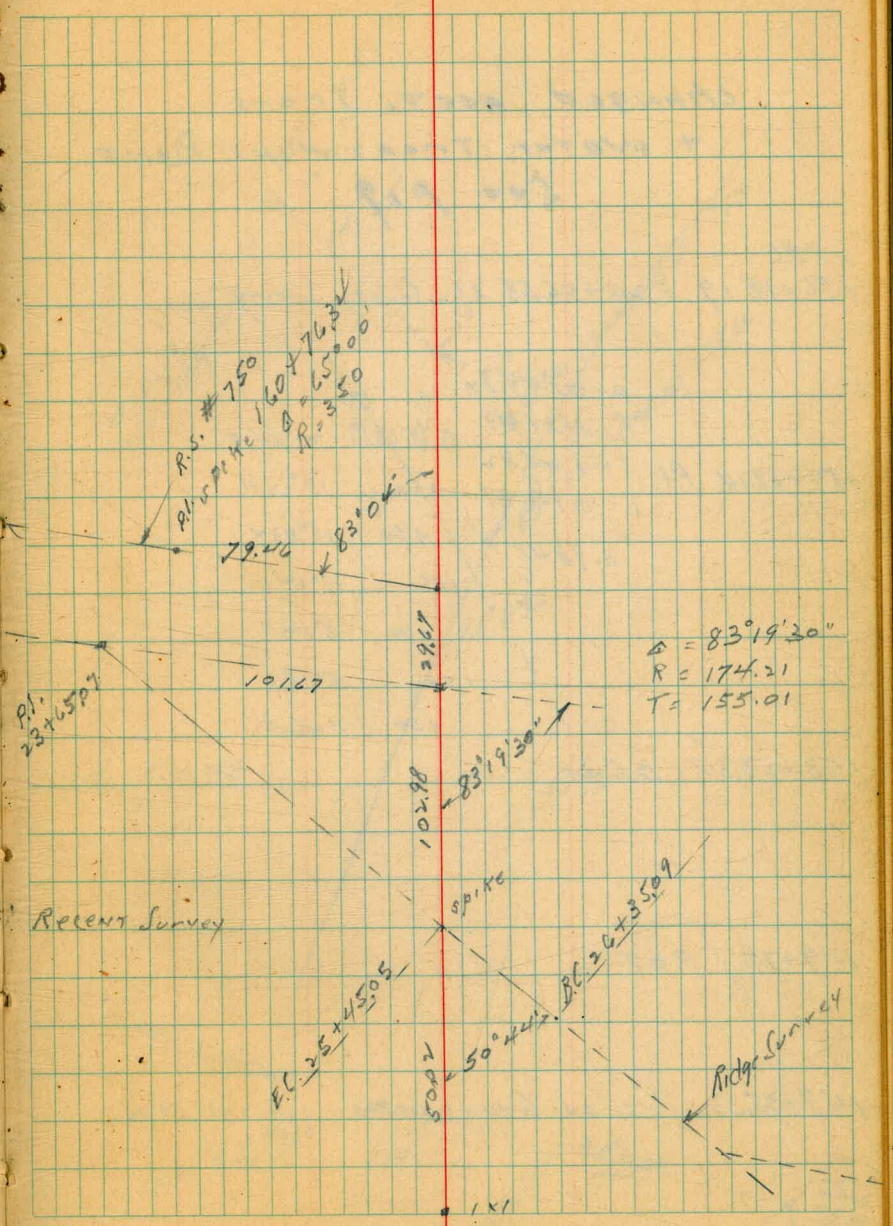


See Next Page



151+99.76 Int. on E.C. of Ridge Survey by Co. E.C. 25+45.05 Recent Survey

151+47.73 P.R.C.



changed acct. Trees
+ Water Treatment Plant
See p19

= P.R.C.
156+38.19 = 20+06.58 E.C. County Survey

Δ = 41°49' Lt.
R = 431.43
T = 164.82
L = 314.87
3.9841

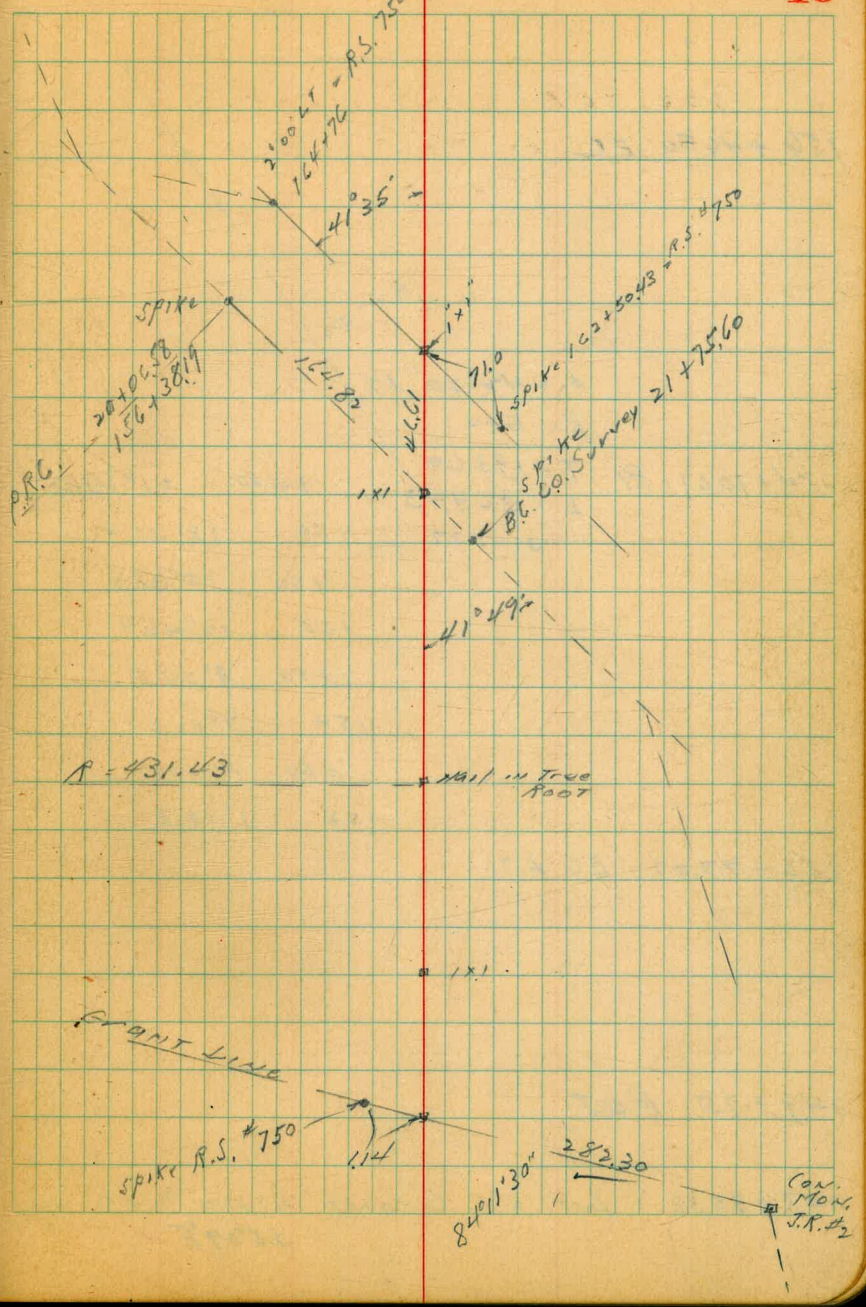
E.C. + 38.19	20°54.5	
156	18°22.4	
+50	15°03.7	
155	11°44.0	
+50	8°24.8	
154	5°05.6	
+50	1°46.4	

154+88.14 P.I.

153+23.32 B.C. Lt.

149+75 P.O.T.

147+35.33 Int. of Grant Line Set 1"x1" Stub



156+46.50 E.C.

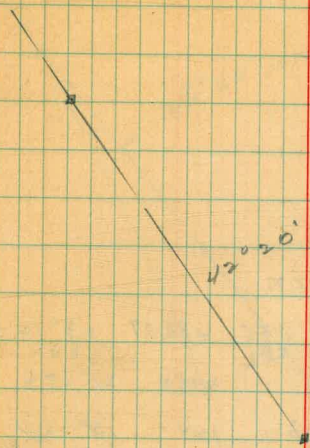
Δ = 42°20' Lt
R = 500
154+70.67 = P.I. T = 193.00
L = 369.43
3.4377

+46.50 21°10.0
156 18°30.4
+50 15°38.3
155 12°46.4
+50 9°54.5
154 7°02.6
+50 4°10.7
153 1°18.8

152+77.07 BC Lt.

149+75 P.O.T.

147+35.33 Int. of Grant Line
S.5°09'E ✓



See p 18

164+83.37 E.C.

Δ = 46°20' LT

R = 500

162+93.0 P.I. T = 213.96

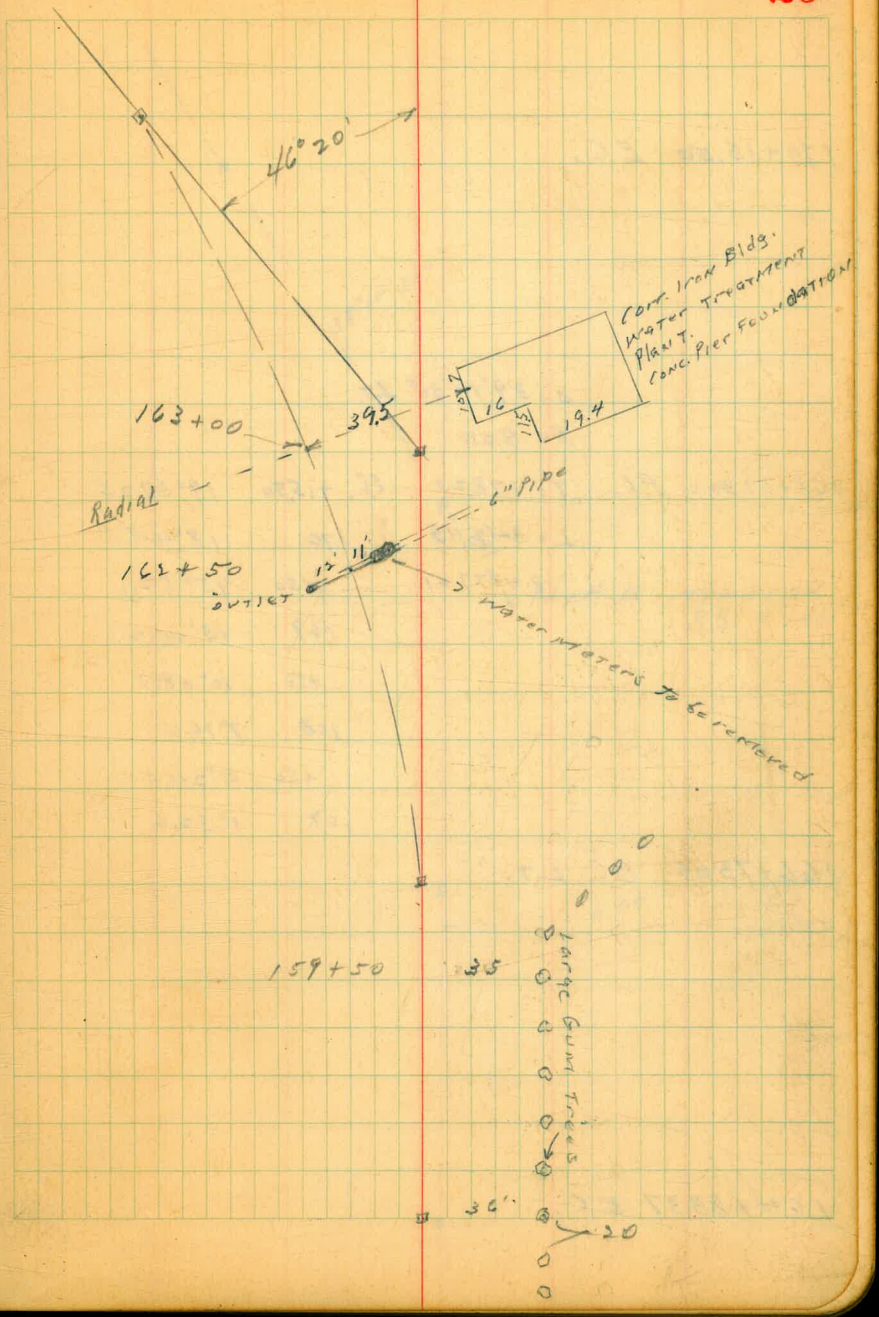
L = 404.33

3.4377

EC	+83.37	3°10.0
	+50	21°15.3
	164	18°23.4
	+50	15°31.5
	163	12°39.6
	+50	9°47.7
	162	6°55.8
	+50	4°03.9
	161	1°12.0

160+79.04 B.C. LT.

156+46.50 E.L.



170+15.50 E.C.

$\Delta = 39°14'30"$ Lt.

$R = 500$

168+51.30 = P.I. $T = 178.25$ E.C. +15.50 19°37.25

$L = 342.45$ 170 18°44.0

3.4377 = 1° +50 15°52.1

169 13°00.7

+50 10°08.3

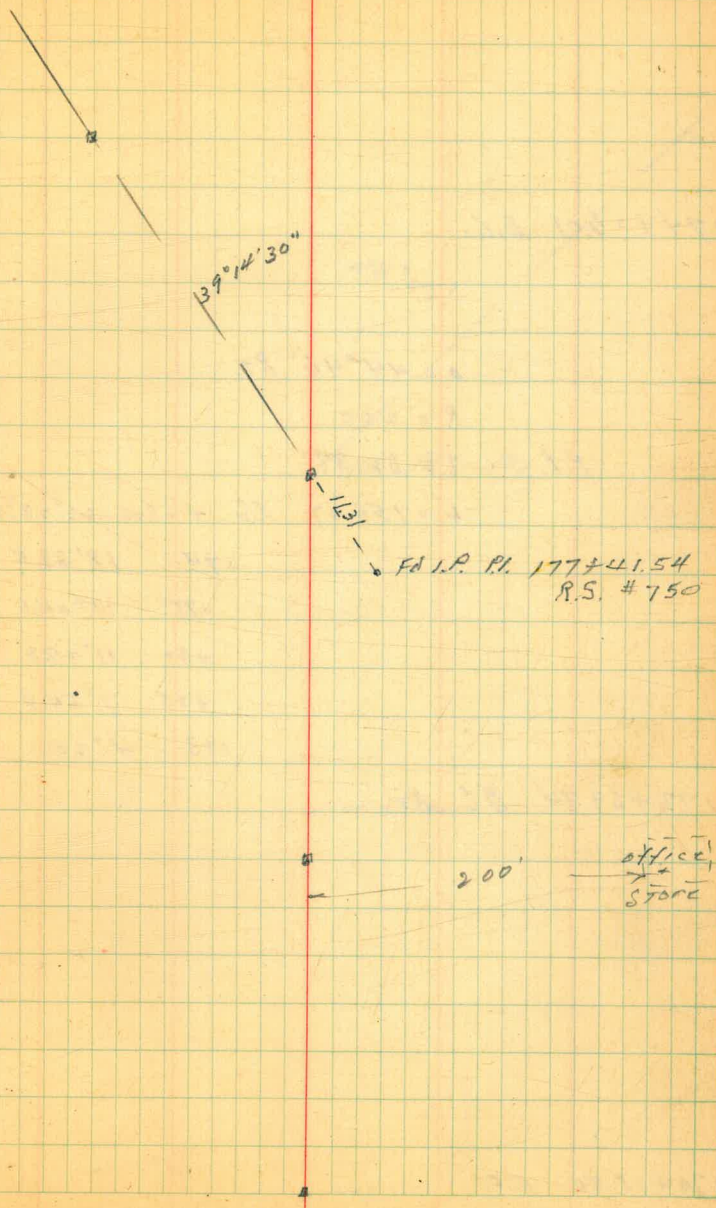
168 7°16.4

+50 4°24.5

167 1°32.6

166+73.05 B.C. Lt.

164+83.37 E.C.



174+26.01 E.C.

Δ = 44°46' Rt.

R = 200

P.I. T = 82.37

L = 156.27 E.C. +26.01 22°33.0

174 18°39.5

+75 15°04.6

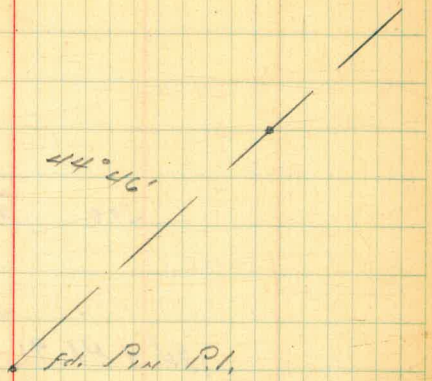
+50 11°29.8

+25 7°54.9

173 4°20.1

172+69.74 B.C. Rt

170+15.50 E.C.



Fd. Spike

1x1

740

See 237-2 P 38

184 + 41.91 R.S. # 750

175+17.72 = E.C. Wly. End Savage Dam

Δ = 78° 29' 30" Lt

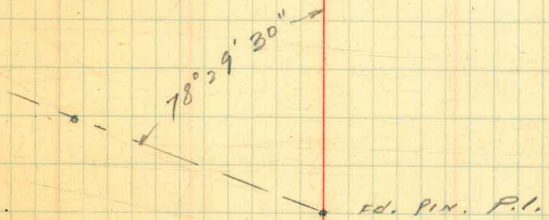
R = 30'

L = 41.10

(T = 24.51)

174+97.17 B.C. Lt.

174+26.01 E.C.



Fd Spike

Xsec. of Road on Wly side of Lower Otay Lake

+50					
1					
+50					
0+00 B.C. 17. = 607+21.42					
T.P.	13.03	555.55	0.40	542.52	
T.P.	12.93	542.92	0.07	529.99	
T.P.	12.21	530.06	0.09	517.85	
T.P.	12.49	517.94	2.97	505.45	
	10.61	508.37		497.76	B.M. #1
check to Co. B.M. #1			10.61	497.75	497.76
					0.01
T.P.	5.22	508.36	12.47	503.14	
T.P.	4.49	515.61	2.86	511.12	
T.P.	7.86	513.98	3.27	506.12	
T.P.	12.60	509.39	5.71	496.79	
	5.55	502.50		496.95	Co. B.M. U.S.G.S. DATUM

Moore Sisson Northern 9-1-38.

532.5 T	537.3	542.6	547.1	551.9 RP
23.1	18.3	13.0	8.5	3.7
60	30		20	20
537.1	540.6	546.2	550.6	554.9
18.5	15.0	9.4	5.0	0.7
60	30		20	20
542.3	545.1	550.2	554.5	559.1
18.3	10.5	5.2	1.1	+ 3.5
60	30		20	20
544.3	549.4	553.9	557.6	562.6
11.3	6.2	1.7	+ 2.0	+ 7.0
20	30		20	20

555.55 / 5

Iron pin 50 R.P. Pl. 7+45.38 R.S. #750

Spike in Fence Post 140' Sw'ly from Bridge at approx. 633+00 — Upper & Lower Otay Lake-S

+50

"

P.I. 1x1bu6 248x.66 2.46 528.83 = B.M. #1 City Survey

T.P. 0.26 531.29 12.98 531.03

+50

3

+50

T.P. 0.85 544.01 12.39 543.16

2

555.55

C T. E P T.

511.6	514.9	517.0	519.1	520.2	522.1
19.7	16.5	14.3		11.1	9.2
60	50	30	17.2	20	40

Wash

514.8	520.2		522.2	524.3	526.6
16.5	11.1			7.0	4.7
60	30		9.1	20	40

531.29
2

517.4	522.2	523.7	527.3	530.6	534.8
20.6	21.8	20.3		13.4	9.2
60	45	30	16.7	20	40

524.2	527.8	532.7	536.9	541.6
19.8	16.2		7.1	2.6
40	30	14.3	20	40

527.3	531.4	537.3	542.2	547.0
16.7	12.6		1.8	+ 3.0
60	30	6.7	20	20

544.01
4

530.6	534.4	540.1	544.4	549.5
25.3	21.2		11.2	6.1
60	30	15.5	20	40

555.55
7

Cut new channel for wash

8				
T.P.	4.91	511.54	13.0	506.63
	+50			
7				
	+50			
6				
	+50.94	E.C.		
5				
T.P.	1.06	519.67	17.08	518.61
		531.29		

LT | ℄ | RT

503.1 501.4 499.3 501.3 503.1 505.8 508.0
8.4 10.1 13.4 10.7 8.4 5.7 3.5
40 30 23 ℄ wash 14 40 20 40

511.54

504.7 504.3 501.3 504.0 506.7 508.7
15.0 15.4 18.4 15.7 13.0 11.0
60 50 30 ℄ wash 20 40

wash
502.6 505.6 506.4 508.0 509.3 511.4
17.1 12.1 13.3 11.7 10.2 8.3
75 60 30 20 40

505.0 507.0 510.0 511.4 512.8 513.8
12.7 12.7 9.7 8.3 4.9 4.4
70 60 30 20 40

wash
506.1 509.1 511,6 514.5 515.6 517.3
13.6 10.6 8.1 5.2 4.1 2.4
60 50 30 20 40

507.4 511.3 513.7 516.26 517.5 519.1
12.3 8.4 4.0 3.41 2.7 0.6
wash 60 50 30 Hub 20 40

508.7 513.9 515.4 517.9 519.0 520.5
11.0 5.8 4.3 1.8 0.7 +0.8
63 50 30 20 40
wash

519.67

+26.96 = B.C. P7.

12

+50

11

+50

10

+50

9

8+50

511.54

494.8	497.2		499.83	501.9	503.9
16.7 / 60	14.3 / 30	—	11.71	9.6 / 20	7.4 / 40
494.6	496.8	499.3	501.0	503.2	505.3
16.9 / 60	14.7 / 45	12.7 / 20	10.5	8.8 / 20	6.7 / 40
	496.5	499.6	503.2	505.4	507.5
	15.0 / 60	11.9 / 30	8.3	6.1 / 20	4.0 / 40
	498.3	501.3	504.0	506.1	508.8
	13.2 / 60	10.2 / 30	7.5	5.2 / 20	2.7 / 40
	498.7	501.6	504.8	507.5	509.5
	12.8 / 60	9.9 / 30	6.7	4.0 / 20	2.0 / 40
	498.1	501.5	504.6	506.8	509.7
	13.4 / 60	10.0 / 30	6.9	4.7 / 20	1.8 / 40
494.4	498.5	501.2	504.5	506.7	509.1
17.1 / 85	13.0 / 60	10.3 / 30	7.0	4.8 / 20	2.2 / 40
wash					
498.5	496.4	498.3	501.4	504.2	506.3	509.0
13.0 / 60	15.1 / 40 wash	13.2 / 30	10.1 / 20	7.3	5.2 / 20	2.5 / 40
500.9	500.3	497.9	499.5	503.9	505.9	508.1
10.6 / 60	11.2 / 50	13.2 / 40 wash	12.0 / 30	7.6	5.6 / 20	3.4 / 40
				511.54		

1+75					
1+50					
T.P. Larth	8.44	517.22	0.17	508.78	1+38
check to B.M. Fd. 35' Lt. of 13+50 - 2x2 Hub			9.98	498.97	509.52 ?
check to Co. B.M. #1		Iron Pin	11.19	497.76	497.76 ✓
1+					
1+50					
13					
12+50					
T.P.	9.12	508.95	11.71	499.83	
		511.54			

508.0	512.3	513.8	514.0	513.8
9.2 / 60	4.9 / 30	3.4	3.2 / 20	3.4 / 40
504.1	509.4	510.4	510.9	511.9
13.1 / 60	7.8 / 30	6.8	6.3 / 20	5.3 / 40

511.22 / 5

Elev. taken on Larth guard stake - origen unknown.

500.0	502.1	505.2	506.4	507.9
9.0 / 60	6.9 / 30	3.8	2.6 / 20	1.1 / 40
496.8	499.0	501.2	502.8	504.3
12.2 / 60	10.0 / 30	7.8	6.2 / 20	4.7 / 40
494.9	496.6	500.0	501.0	502.9
14.1 / 60	12.4 / 30	9.0	8.0 / 20	6.1 / 40
495.0	497.7	499.7	501.3	503.1
14.0 / 60	11.3 / 30	9.3	7.7 / 20	5.9 / 40

508.95 / 5

18				
T.P.	10.70	527.24	0.68	516.54
+59.62 E.C.				
+50				
17				
+50				
16				
+50				
15+00		517.22		

510.9 515.1 520.6 525.1 528.8
1.7 12.1 6.6 2.1 PT. + 1.6
16.3 / 60 — 12.1 / 30 — 6.6 — 2.1 / 20 — 1.6 / 40

527.24

508.6	512.6	517.8	521.2	526.0
8.6 / 60	4.6 / 30	+ 0.6	+ 4.0 / 20	+ 8.8 / 40
508.1	512.1	516.9	521.5	526.2
9.1 / 60	5.1 / 30	0.3	+ 4.1 / 20	+ 9.0 / 40
504.8	508.3	513.1	517.7	522.4
12.4 / 60	8.9 / 30	4.1	+ 0.5 / 20	+ 5.2 / 40
500.7	504.6	509.3	512.9	517.0
16.5 / 60	12.4 / 30	7.9	4.3 / 20	0.2 / 40
500.4	504.1	508.3	510.9	514.0
16.8 / 60	13.1 / 30	8.9	6.3 / 20	3.2 / 40
503.7	507.5	510.6	512.2	514.0
13.5 / 60	9.7 / 30	6.6	5.0 / 20	3.2 / 40
509.2	512.7	514.4	514.9	514.9
8.0 / 60	4.5 / 30	2.8	2.3 / 20	2.3 / 40

517.22

+50				
T.P.	0.55	501.03	17.93	501.48
21+04.68	BC 47			
T.P.	0.04	514.41	12.87	514.37
+50				
20				
+50				
19				
18+50				
		527.24		

492.0	492.6	493.5	495.5	497.1	498.2	500.0
10.0	9.4	8.5	6.5	4.9	3.8	2.0
65	50	25	10		25	50

501.03

495.4	497.9	500.9	502.7	504.9
19.0	16.5	13.5	11.7	9.5
60	30		20	40

514.41

501.0	505.7	510.4	513.0	516.0
26.7	21.5	16.8	14.2	11.2
60	30		20	40
509.3	514.3	519.5	523.5	528.2
17.9	12.9	7.7	3.7	+1.0
20	30		20	40
513.8	518.5	524.0	528.7	533.2
13.4	8.7	3.2	+1.5	+6.0
60	30		20	40
514.1	519.5	525.2	529.9	535.0
13.1	7.7	2.0	+2.7	+7.8
20	30		50	40
512.5	517.5	524.0	528.3	532.5
12.7	9.7	3.4	+1.1	+5.3
60	30		20	40

527.24

3

501.34
9.16
510.50
501.97
8.53 rod = 155

T.P. rail in Post.	11.6	512.96	069	501.34
4+25				
4+50				
4+75	Culv.	radial		
5+00				
		502.03		

488.7	492.7	492.8	494.0	498.3	501.9	504.0
24.3	20.3	20.2	19.0	14.7	12.1	9.0
65	50	37	34		25	50

20° RT of 23+80 — 512.96

487.8	492.5	493.0	494.4	497.1	499.8	501.4
14.2	9.5	9.0	7.6	4.9	2.2	0.4
60	38	23	18		25	50

edge water →

486.3	487.8	491.0	492.8	495.9	498.3	
15.7	14.2	11.0	9.2	6.1	3.7	
60	48	31		25	50	

edge water

486.2	487.8	489.2	491.9	492.6	493.3	
15.8	14.2	12.8	10.1	9.4	8.7	
60	6		8	25	50	

edge water

486.0	487.8	490.9	491.9	492.6	
16.0	14.2	11.1	10.1	9.4	
60	17		25	60	

edge water →

487.5	487.8	489.3	491.8	491.5	492.7	493.4
14.5	14.2	12.7	10.2	10.5	9.3	8.6
60	42	24	18		25	55

edge water →

491.0	492.2		493.6	494.8	495.4
11.0	9.8		8.2	7.2	6.6
65	30			25	50

502.03

7+50					
T.P.	5.92	530.47	0.08	524.55	
27					
26+50.61	B.C. RT.		ON STUB		
26					
T.P. STUB	12.09	524.63	0.42	512.54	E.C. @ 25+43.63
+43.63 EC		ON	STUB		
25					
7+50					
		512.96			

498.1 508.2 520.0 526.3 532.1
32.4 21.8 10.5 4.2 +1.6
60 30 20 40

530.47

499.8 509.6 520.8 527.3 534.2
24.8 15.0 3.8 +2.7 +9.6
60 30 20 40

500.4 509.4 519.92 526.1 532.1
24.2 15.2 4.71 +1.5 +7.5
60 30 20 40

500.8 508.3 517.6 523.8 530.2
23.8 16.3 7.0 0.8 +5.6
60 30 20 40

524.63

498.5 504.9 512.54 518.0 522.8
14.5 8.1 0.42 +5.0 +9.8
60 30 20 40

495.5 501.1 506.8 510.2 513.6
17.5 11.9 6.7 2.8 +0.6
65 30 20 40

492.2 492.2 494.2 496.2 500.2 504.0 507.2
+0.8 20.8 18.8 16.8 1.8 9.0 5.8
65 55 53 30 25 50

512.96

31				
+50				
7+12.06 E.C.		ON STA 6		
30				
+50				
29.				
T.P.	0.97	518.50	12.94	517.53
+50				
28				
		530.47		

	499.7 T 18.8 50	504.2 14.3 30	508.3 10.2	511.8 6.7 20	RT 515.1 3.2 40
496.1 22.4 60	498.0 20.5 55	501.7 16.8 30	507.8 10.7	511.5 7.0 20	515.0 3.5 40
493.5 24.0 60	496.2 22.3 55	501.7 16.8 30	507.74 10.76	511.8 4.7 20	516.0 2.5 40
494.5 24.0 60	496.1 22.4 55	500.9 17.6 30	507.3 11.2	511.5 7.0 20	516.0 2.5 40
494.7 23.8 60	494.7 23.8 53	495.7 22.8 50	499.2 19.3 30	505.4 13.1	509.9 8.6 20	515.7 2.8 40
493.0 25.5 60	493.0 25.5 55	495.1 23.4 53	499.7 18.8 30	506.0 12.5	510.2 8.3 20	515.3 3.2 40
				518.50		
495.0 35.5 60	500.2 30.3 30		508.6 21.9	513.9 16.6 20	519.3 11.2 40
496.0 34.5 60	500.2 30.3 45	506.0 24.5 20	512.9 17.6	519.3 11.2 20	525.8 4.7 40
			530.47		

34						
+50						
33						
+50						
check to Co. BM #2			12.03	499.41	499.38	
T.P.	3.54	511.44	10.64	507.88		
32						
31+50						
		518.50				

494.3	496.1	496.0	497.0	501.6	504.5	507.9
17.1	15.3	15.4	14.4	9.8	6.9	3.5
50	34	30	28		20	40
495.7	495.2	496.7	499.1	502.1	505.3	509.6
15.7	16.4	14.7	12.3	9.3	6.1	1.8
50	38	35	23		20	40
496.0	497.5	499.7	504.1	507.9	511.9	
15.4	13.9	11.7	7.3	3.5	+0.5	
30	40	25		20	40	
495.4	496.7	500.0	504.4	508.4	512.2	
16.0	14.7	11.4	7.0	3.0	+0.8	
50	47	25		20	40	

47' Left of 32+00

511.44

498.5	502.7	506.9	512.4	514.0	
20.0	15.8	11.6	6.1	4.5	
50	25		20	40	
499.4	503.3	507.5	511.1	515.1	
19.1	15.2	11.0	7.4	3.4	
50	25		20	40	

518.50

38

+50

37

+50

T.P. 12.33 512.60 11.17 500.27

36

+50 18" C.M. at 90°

35

+50 511.44

	499.8	504.7	510.5	515.1	519.0	
	12.8	7.9		+2.5	+6.4	
	50	35	21	20	40	
	495.2	497.1	499.6	505.8	510.6	515.0
	17.4	15.5	13.0		2.0	+2.4
	50	45	37	6.8	20	40
495.3	495.0	496.2	498.1	501.8	506.3	511.3
17.3	17.6	16.4	14.5		4.3	1.3
50	34	37	26	10.8	20	40
493.0	495.5	495.3	496.5	500.8	504.7	508.1
19.6	17.1	17.3	16.1		7.9	4.5
50	48	28	25	11.8	20	40
			512.60			
492.4	495.4	495.3	496.6	499.6	503.1	506.4
19.0	16.0	16.1	14.8		8.3	5.0
50	38	22	18	11.8	20	40
492.6	495.6	495.8	497.2	499.5	502.6	506.4
18.8	15.8	15.6	14.2		8.8	5.0
50	35	20	17	11.9	20	40
492.2	495.7	495.8	497.2	499.4	503.1	506.6
19.2	15.7	15.6	14.2		8.3	4.8
50	35	20	17	12.0	20	40
492.7	495.4	495.4	496.6	500.1	503.7	507.2
18.7	16.0	16.0	14.8		7.7	4.7
50	40	22	20	11.3	20	40
			511.44			

+50				
T.P	12.80	537.96	0.04	525.16
40				
+50				
39				
T.P	12.41	525.20	0.01	512.79
+50				
38+35.03	B.C. Pt.			
		512.60		

526.0 / 120 / 50 — 529.8 / 8.2 / 25 — 533.7 / 4.3 — 536.6 / 1.4 / 20 — 538.8 / +0.8 / 40

537.96

519.0 / 6.2 / 50 — 522.8 / 2.4 / 37 — 525.2 / 0.0 / 25 — 529.7 / +4.5 — 533.3 / +8.1 / 20 — 536.7 / +11.5 / 40

513.3 / 11.9 / 50 — 518.9 / 6.3 / 25 — 523.1 / 2.1 / 10 — 524.8 / 0.4 — 529.2 / +4.0 / 20 — 533.3 / +8.1 / 40

507.2 / 18.0 / 50 — 513.4 / 11.8 / 25 — 519.7 / 5.5 — 524.4 / 0.8 / 20 — 528.7 / +3.5 / 40

525.20

503.5 / 9.1 / 50 — 508.9 / 3.7 / 25 — 515.0 / +2.4 — 519.6 / +7.0 / 20 — 524.1 / +11.5 / 40

501.8 / 10.8 / 50 — 507.5 / 5.1 / 25 — 512.8 / +0.2 — 517.7 / +5.1 / 20 — 521.6 / +9.0 / 40

512.60

+50				
T.P	0.39	513.63	12.46	513.24
#3				
+50				
+32.97	E.0.			
T.P.	0.69	525.90	12.75	525.21
#2				
+50				
#1		537.94		

#2

498.5	502.0	503.3	504.9	505.4
15.1 / 40	11.4 / 25	10.3	8.7 / 20	8.2 / 50

513.43

502.8	506.8	509.9	511.7	512.6
23.1 / 60	19.1 / 25	16.0	14.2 / 20	13.3 / 40

507.6	511.8	517.3	519.5	521.1
18.3 / 60	14.1 / 30	8.6	6.4 / 20	4.8 / 40

508.6	512.9	518.92	522.4	525.0
17.3 / 60	13.0 / 30	6.98	3.5 / 20	0.9 / 40

525.90

517.4	520.7	524.3	526.6	529.0
20.6 / 50	17.3 / 25	13.7	11.4 / 20	9.0 / 40

525.3	528.4	530.9	532.2	533.9
12.7 / 50	9.6 / 25	7.1	5.8 / 20	4.1 / 40

529.0	532.1	534.6	536.5	538.4
9.0 / 50	5.9 / 25	3.4	1.5 / 20	+0.4 / 40

537.96

+50					
+24.77	B.C. Lt				
check to Co. BM #3	Iron Pin 50' Rt 46+00		0.45	505.69	505.68
46					
+50					
45					
+65					
+40	18" Culv 90°				
T.P.	5.53	506.14	13.02	500.61	
44					
		513.63			

492.4 13.7/60	494.9 11.2/39	494.9 11.2/24	496.0 10.1/23	497.9 8.2	500.1 6.0/25	502.8 3.3/50	
493.1 13.0/60	495.1 11.0/38	495.1 11.0/20	496.5 9.6/18	498.6 7.5	501.1 5.0/25	504.8 1.3/50	
493.1 13.0/60	495.8 10.3/35	495.6 10.5/18	497.1 9.0/16	499.0 7.1	501.6 4.5/25	504.7 1.4/50	
492.8 13.3/60	496.5 9.6/34	495.8 10.3/17	497.4 8.7/15	499.0 7.1	501.8 4.3/25	504.4 1.7/50	
492.8 13.3/60	495.0 11.1/38	494.5 11.6/23	496.2 9.9/22	497.6 8.5	499.5 6.6/25	501.9 4.2/50	
491.1 15.0/60	492.9 13.2/45	493.9 12.2/25		496.4 9.7	497.9 8.2/25	499.9 6.2/50	
491.3 14.8/60	492.5 13.6/50	493.3 12.8/30		494.4 11.7	495.2 10.9/25	496.3 9.8/50	
				506.14			
	494.8 18.8/60	496.6 17.0/30		498.5 15.1	499.9 13.7/25	500.3 13.3/50	
				513.63			

+50

50

+50

49

+80 24" Cuv. Radial

+50

48

+50

47 Wash

cut channel to divert This wash to 48+80

506.14

497.0	499.8	501.3	503.6	506.6		
9.1 / 65	6.3 / 30	4.8	2.5 / 25	+0.5 / 50		
496.7	499.0	500.6	501.9	503.3		
9.2 / 65	7.1 / 30	5.5	4.7 / 25	2.8 / 50	155 / 50	49+65
495.8	497.5	498.8	499.3	500.7	155 / 65	
10.3 / 65	8.6 / 30	7.3	6.8 / 25	5.2 / 50		
495.4	496.5	497.6	498.3	499.5	155 / 102	
10.7 / 65	9.6 / 30	8.5	7.8 / 25	6.4 / 50		
494.6	494.4	496.1	494.5	495.5	498.4	155 / 115
11.5 / 65	10.7 / 40	10.0 / 10	11.6	10.6 / 25	7.7 / 50	
491.4	492.8		496.1	497.8	498.9	155 / 120
14.7 / 65	13.3 / 30		10.0	8.3 / 25	7.2 / 50	
	494.1	495.7	497.0	498.4	499.3	155 / 115
	12.0 / 65	10.4 / 30	9.1	7.7 / 25	6.8 / 50	
493.8	494.3	495.5	496.6	498.0	499.5	501.0	155 / 68
12.3 / 65	11.8 / 53	10.6 / 50	9.5 / 30	8.1	6.6 / 25	5.1 / 50	
493.4		494.4	494.8	496.0	497.3	498.5	155 / 100
13.7 / 65		11.7 / 50	11.3 / 31	10.1	8.8 / 25	7.6 / 50	

506.14 / 5

504.1	508.0	513.5	516.5	519.0
9.4 / 60	5.5 / 30	00	+ 3.0 / 20	+ 5.5 / 40
503.1	506.8	510.9	514.6	516.5
10.4 / 60	6.7 / 30	2.6	+ 1.1 / 20	+ 3.0 / 40
501.5	504.4	507.7	511.0	513.3
12.0 / 60	9.1 / 30	5.8	2.5 / 25 △	0.2 / 40
497.1	501.5	503.2	505.5	507.5
16.4 / 65	12.0 / 30	10.3	8.0 / 25	4.0 / 50
497.2	501.1	501.7	503.5	505.3
16.3 / 65	12.4 / 30	11.8	10.0 / 25	8.2 / 50
496.3	498.2	500.5	502.4	504.2
17.4 / 65	15.3 / 30	13.0	11.1 / 25	9.3 / 50
496.9	498.2	500.42	503.0	506.3
16.6 / 65	15.3 / 30	13.08	10.5 / 25	7.2 / 50
497.2	499.2	501.5	503.9	506.7
16.3 / 65	14.3 / 30	12.0	9.6 / 25	6.8 / 50

513.50

+50

54

+50

53

+50

52

+49.01 E.C. ON STUB

51

T.P. 11.36 513.50 / 506.14 4.00 502.14

58				
+50				
57				
+50				
56				
+71.25 BC				
T.P.	8.94	518.29	4.15	509.35
+50				
55				
		513.50		

501.3	505.5	509.5	513.3	515.5
17.0 / 50	12.8 / 25	8.8	5.0 / 20	2.8 / 40
501.8	505.7	509.4	512.5	516.2
16.5 / 50	12.6 / 25	8.9	5.8 / 20	2.1 / 40
502.2	506.5	510.3	513.9	517.6
16.1 / 50	11.8 / 25	8.0	4.4 / 20	0.7 / 40
503.0	506.8	511.7	515.4	519.0
15.3 / 50	11.5 / 25	6.4	2.9 / 20	+0.7 / 40
505.0	508.4	513.0	516.5	519.5
13.3 / 50	9.9 / 25	5.3	1.8 / 20	+1.2 / 40
504.7	508.1	513.2	516.5	520.3
13.6 / 50	10.2 / 25	5.1	1.8 / 20	+2.0 / 40
		518.29		
504.6	508.9	513.2	516.5	520.0
8.9 / 50	4.6 / 25	0.3	+3.0 / 20	+6.5 / 40
505.3	509.1	513.8	517.6	520.5
8.7 / 50	4.4 / 25	+0.3	+2.1 / 20	+7.0 / 40
		513.50		

509.7 L7	511.1	513.4	515.2	PT 517.2
13.6 / 50	12.7 / 25	9.9	8.1 / 20	6.1 / 40
512.0	513.8	516.1	518.2	520.0
11.3 / 50	9.5 / 25	7.2	5.1 / 20	3.3 / 40
512.7	514.6	517.0	519.2	521.4
10.6 / 50	8.7 / 25	6.3	4.1 / 20	1.9 / 40
509.9	512.6	515.2	517.6	520.5
13.4 / 50	10.7 / 25	8.1	5.7 / 20	2.8 / 40
509.7	511.9	514.64	517.3	520.2
13.6 / 50	11.4 / 25	8.68	6.0 / 20	3.1 / 40

523.32 / 7

505.7	508.8	512.5	515.1	518.2
12.6 / 50	9.5 / 25	5.8	3.2 / 20	0.1 / 40
504.3	506.7	510.5	512.3	515.4
14.0 / 50	11.6 / 25	7.8	6.0 / 20	2.9 / 40
502.3	505.8	509.1	512.6	514.9
14.0 / 50	12.5 / 25	9.2	5.7 / 20	3.4 / 40

518.29

+50

61

+50

60

+91.76 E.C.

T.P. ON E.C. 306 +91.76 | 8.68 | 523.32 − 3.45 | 514.64

+50

59

+50

518.29

6+				
61+77 B.C. PT.	on STUB			
4+50				
63	small Culv.			
62+50				
	9.07	521.19	512.12	T.P.
4 to Co. BM #4		17.22	500.57	500.56
T.P. 10' RT. of 62+12	5.67	517.79	11.20	512.12	2 nails in Cor. Fence Post
62		523.32		

507.3	510.7	512.6	514.2	516.7
13.9 / 50	10.5 / 25	8.4	7.0 / 20	4.5 / 40
505.2	507.5	509.70	511.8	514.2
16.0 / 50	13.7 / 25	11.49	9.4 / 20	7.0 / 40
504.9	507.0	509.2	511.2	513.6
16.3 / 50	14.2 / 25	12.0	10.0 / 20	7.4 / 40
502.2	505.0	507.3	510.0	513.0
19.0 / 50	16.2 / 25	13.7	11.2 / 20	8.2 / 40
503.8	505.9	508.4	510.2	512.8
17.4 / 50	15.8 / 25	13.8	11.0 / 20	8.4 / 40

521.19

60' Lt of 56+40 Iron Pin. BM. #4

506.2	508.3	510.3	512.0	514.2
17.1 / 50	15.0 / 25	13.0	11.3 / 20	9.1 / 40

523.32

518.7	518.9	518.9	518.8	519.4
9.0 / 50	8.8 / 25	8.8	8.9 / 20	8.3 / 40
520.0	521.8	523.0	523.6	524.1
7.7 / 50	5.9 / 25	4.7	4.1 / 20	3.4 / 40
519.3	521.6	523.7	525.2	526.5
8.4 / 50	6.1 / 25	4.0	2.5 / 20	1.2 / 40
519.2	521.7	523.9	525.6	526.8
8.5 / 50	6.0 / 25	3.8	2.1 / 20	0.9 / 40
520.8	522.5	524.0	525.3	526.4
6.9 / 50	5.2 / 25	3.7	2.4 / 20	1.3 / 40
519.2	521.4	522.2	523.4	524.8
8.5 / 50	6.3 / 25	5.5	4.3 / 20	2.9 / 40

527.73

514.1	516.5	517.8	519.4	520.6
7.1 / 50	4.7 / 25	3.4	1.8 / 20	0.4 / 40

521.19

750					
67					
750					
66					
750					
65					
T.P.	6.92	527.73	0.38	520.81	
750					
		521.19			

70+18.76 B.C. LT ON STUB

+95 18" CMP 90°

+50

T.P. 4.74 507.68 12.81 502.92

69+00.77 E.C. ON STUB

+50

T.P. 0.57 515.73 12.57 515.16

68

527.73

497.7	493.7	496.02	498.0	500.0	155/100
15.0/60	14.0/30	STUB 11.66	9.7/30	7.7/40	
497.7	494.4	495.1	495.8	496.5	155/100
15.0/60	13.3/30	12.4	11.9/30	11.2/40	
496.5	496.8	498.0	499.5	500.2	
11.2/60	10.9/30	9.7	8.7/30	7.5/40	

69+20 = 155/50

507.68

500.4	501.2	501.62	502.6	503.8
15.3/50	14.5/25	14.11	13.1/20	11.9/40
505.4	506.4	507.4	508.0	509.0
10.3/50	9.3/25	8.3	7.7/20	6.7/40

515.73

517.3	517.7	517.8	518.2	518.4
15.4/50	15.0/25	14.9	14.5/20	14.3/40

527.73

74 24" Culv. Radial

155/135

+50

To 74+00

155/110

73 wash to Rt. divert by channel

+50

73+15 155/50

72

+50

71

+50

507.68

492.0	493.0		494.3	495.5	496.5	496.5	497.1
15.7/60	14.7/30		13.4	12.2/30	11.2/43	11.2/5.7	10.4/60
492.5	493.0	493.3	494.7	495.9	496.4	497.9	
15.2/60	14.7/50	14.4/30	13.0	11.8/20	11.3/39	9.8/60	
492.9	494.5	495.9	496.0	496.0	496.6	497.5	499.2
14.8/60	13.2/30	11.8/10	11.7	11.7/8	11.1/10	10.2/30	8.5/60
494.1	495.3	495.5	496.5	497.9	499.5	501.3	
13.6/60	12.4/42	12.2/25	11.2/28	9.8	8.2/80	6.4/60	
495.7	495.5	496.6	497.3	500.2	503.1	505.6	
12.0/60	12.2/42	11.1/40	10.4/30	7.5	4.6/30	2.1/60	
495.7	495.3	496.8	498.8	502.0	505.9	509.5	
12.0/60	12.4/54	10.9/54	8.9/30	5.7	1.8/30	+1.8/60	
494.6	494.3	495.5	497.3	500.8	504.8	508.5	
13.1/60	13.4/54	12.2/53	10.4/30	6.9	2.9/30	+0.8/60	
493.1	493.7	495.3	497.5	499.8	503.7		
14.6/60	14.0/50	12.4/30	10.2	7.9/80	4.0/60		

155/50

507.68

77					
+50					
76					
check to P.I. & B.M. #5		1.08	503.98	503.95	
T.P.	8.61	516.06	0.23	507.45	
+50					
75					
+91.89 E.C.			on stub		
+50					
		507.68			

501.4 LT 505.5 510.6 513.9 RT 517.5

14.7/60 10.6/30 5.5 2.7/20 +1.4/40

501.1 505.0 509.2 512.7 516.9

15.0/60 11.1/30 6.9 3.4/20 +0.8/40

498.1 501.7 506.3 509.8 512.8

18.0/60 14.4/30 9.8 6.3/20 3.3/40

65' RT of 74+91.89 E.C.

516.06

493.1 494.3 497.7 503.0 505.3 508.3

14.6/60 13.4/52 10.0/30 4.7 2.4/20 +0.6/40

492.7 494.9 494.6 496.0 496.7 498.8 504.6 155/30

15.0/60 12.8/30 13.1/10 11.7/8 11.0 7.9/20 3.1/60

492.3 494.3 495.3 494.84 494.8 498.8 502.9

15.4/60 13.4/26 12.4/22 12.84 11.9/2 8.9/30 4.8/60

491.3 492.5 494.5 496.3 496.7 498.0 155/120

16.4/60 15.2/30 13.2 11.4/55 11.0/42 9.7/60

507.68

8 + 13.15 = Eq 79 + 43.15 B.C. Pt. ON STN 6

8 0

+50 SMALL CULV. 90°

79

+50

78

T.P. 11.01 521.73 5.34 510.72

+50

516.06

512.3	512.2	511.44	510.8	511.6
9.2 / 40	9.5 / 20	10.29	10.9 / 20	10.1 / 40
509.4	509.5	508.8	509.0	509.7
12.8 / 50	12.2 / 25	12.9	12.7 / 20	11.8 / 40
500.5	501.3	502.9	504.5	506.5
21.2 / 40	20.4 / 30	18.8	17.2 / 20	15.2 / 40
497.2	499.3	501.3	504.2	507.0
24.5 / 40	22.4 / 30	20.4	17.5 / 20	14.7 / 40
491.8	500.5	503.7	507.6	510.0
25.9 / 40	21.2 / 30	18.0	14.1 / 20	11.7 / 40
497.8	502.9	507.1	511.1	514.7
23.9 / 40	18.8 / 30	14.6	10.6 / 20	7.0 / 40

521.73

500.6	504.9	509.2	512.7	516.1	516.7
15.5 / 40	11.2 / 30	6.9	3.4 / 20	0.0 / 34	+0.6 / 40

516.06

517.7	513.6	513.3	514.1	514.7
9.4 / 40	8.1 / 20	8.4	7.6 / 20	7.0 / 40
513.2	514.2	514.8	514.3	515.4
8.5 / 40	7.5 / 20	6.9	7.4 / 20	6.8 / 40
514.8	514.6	515.2	516.0	516.9
6.9 / 40	7.1 / 20	6.5	5.7 / 20	4.8 / 40
515.9	514.9	516.1	516.9	517.3
5.8 / 40	6.8 / 20	5.6	4.8 / 20	4.4 / 40
516.3	516.4	516.3	517.7	518.3
5.4 / 40	5.3 / 20	5.4	4.0 / 20	3.4 / 40
517.4	517.9	518.1	518.7	519.7
4.3 / 40	3.8 / 20	3.4	3.0 / 20	2.0 / 40
517.5	518.4	518.7	519.1	519.7
4.2 / 40	3.8 / 20	3.0	2.6 / 20	2.0 / 40
516.5	516.5	516.7	516.1	516.7
5.2 / 40	5.4 / 20	5.0	5.6 / 20	5.0 / 40

521.73

+50

83

+50

82

+50

81

+50

80+00 original Sta.

521.73

+50				
86+35.68 E.C.				
86				
+50				
85				
+50				
T.P.	5.93	519.62	8.04	513.69
84				
		521.73		

510.5	511.2	511.8	512.2	514.0
9.1 / 40	8.4 / 20	7.8	6.4 / 20	5.6 / 40
510.5	511.9	512.5	513.0	513.4
9.1 / 40	7.7 / 20	7.1	6.6 / 20	6.2 / 40
510.9	511.5	512.3	512.4	513.8
8.7 / 40	8.1 / 20	7.3	7.2 / 20	5.8 / 40
510.1	511.3	512.4	513.6	513.3
9.5 / 40	8.3 / 20	7.2	6.0 / 20	6.3 / 40
510.9	512.0	511.8	513.5	514.1
8.7 / 40	7.6 / 20	7.8	6.1 / 20	5.5 / 40
511.3	511.9	512.7	513.2	514.1
8.3 / 40	7.7 / 20	6.9	6.4 / 20	5.5 / 40

519.62

511.9	512.0	513.3	514.0	514.3
9.8 / 40	9.7 / 20	8.4	7.7 / 20	7.4 / 20

521.73

+50

89

+50

+35.69 BC Rt on stub

88

+75

+46 small wash

87

5.962

508.7	511.1	513.1	515.3	517.6
10.9 / 40	8.5 / 20	6.5	4.3 / 20	2.0 / 40
512.2	513.0	514.0	515.0	516.3
7.4 / 40	6.6 / 20	5.6	4.6 / 20	3.3 / 40
512.3	513.4	514.3	514.4	515.1
7.3 / 40	6.2 / 20	5.3	5.2 / 20	4.5 / 40
512.6	513.5	514.46	514.9	514.9
7.0 / 40	6.1 / 20	5.16	4.7 / 20	4.8 / 40
512.0	511.6	511.6	512.5	513.1
7.6 / 40	8.0 / 20	8.0	7.1 / 20	6.5 / 40
509.6	509.6	510.3	510.8	511.5
10.0 / 40	10.0 / 20	9.3	8.8 / 20	8.1 / 40
505.9	507.0	507.5	507.6	509.6
13.7 / 40	12.6 / 20	12.1	12.0 / 20	10.0 / 40
507.0	508.0	509.7	510.9	512.6
12.6 / 40	11.6 / 20	9.9	8.7 / 20	7.0 / 40

5.962

5

93				
+50				
94				
+50				
91				
T.P.	11.98	531.49	0.11	519.51
+50				
90				
		519.62		

517.6	527.7	527.1	530.0	533.3
13.9 / 50	8.8 / 25	4.4	1.5 / 20	+1.8 / 40
517.5	521.3	525.6	528.3	532.0
14.0 / 50	10.7 / 25	5.9	3.2 / 20	+0.5 / 40
517.1	520.7	524.2	527.2	529.8
14.4 / 50	10.8 / 25	7.3	4.3 / 20	1.7 / 40
516.1	520.2	523.0	525.9	528.1
15.4 / 50	11.3 / 25	8.5	5.6 / 20	3.4 / 40
514.8	518.5	521.7	523.8	525.9
16.7 / 50	13.0 / 25	9.8	7.7 / 20	5.0 / 40
		531.49		
		5		
512.4	515.8	518.8	521.1	523.1
7.2 / 50	3.8 / 25	0.8	+1.5 / 20	+3.5 / 40
508.8	512.6	515.3	518.0	520.0
10.8 / 50	7.0 / 20	4.3	1.6 / 20	+0.4 / 40
		519.62		
		5		

Check to B.M. #6		16.74	489.94	489.89	
T.P.	0.32	504.72	12.73	506.40	
+50					
95					
T.P.	0.44	519.13	12.80	518.69	
+52.52 B.C. Lt.			on Stub		
94					
+50					
93 +34.85 EC			on Stub		
		531.49			
		~~519.67~~			

B.M. #6 from P.I. approx 120 Lt. 95+25

502.0	504.2	506.1	507.1	508.1
17.1 / 50	14.9 / 25	13.0	12.0 / 20	11.0 / 40
508.7	513.2	516.6	519.5	521.3
10.4 / 50	5.9 / 25	2.5	+0.4 / 20	+2.2 / 40

519.13

517.4	518.2	520.88	526.0	529.6
19.1 / 50	13.3 / 25	8.61	5.5 / 20	1.9 / 40
516.0	521.5	526.4	529.7	532.3
15.5 / 50	10.0 / 25	5.1	1.8 / 20	+0.8 / 40
518.1	523.0	527.8	531.0	534.5
13.4 / 50	8.5 / 25	3.7	0.5 / 20	+3.0 / 40
518.0	523.6	527.66	531.1	534.3
13.5 / 50	7.9 / 25	3.83	0.4 / 20	+2.8 / 40

531.49

~~519.67~~

+65

+40 18" Culv. Radial

98

+50

496.6
12.1
508.7
501.97
6.73

97 edge water 8-6-38

+65

+35 18" Culv. Radial

96

506.7x

493.3 493.7 495.3 499.x 500.8 501.9 1.55/50

13.4/65 13.0/50 11.4/25 7.5 5.9/25 4.8/50

491.8 49x.7 494.3 495.9 497.5 500.0 1.55/75

14.9/65 14.0/50 12.4/25 10.8 9.x/25 4.7/50

490.7 49x.5 494.5 493.9 495.3 496.8 499.0 500.7 50x.0

16.0/65 14.x/35 12.7/35 11.8/15 11.4/15 9.9 7.7/15 6.0/40 4.7/50 1.55/50

97+96

489.7 491.6 495.4 494.7 496.7 499.1 50x.3 505.3

17.0/65 15.1/50 11.3/30 12.9/17 10.0/15 7.6 4.4/30 1.4/40

487.7 488.9 490.5 494.8 494.4 496.6 500.7 504.4

19.0/90 17.8/65 16.x/40 11.9/17 12.3/3 10.1 6.0/17 2.3/40

96+75 1.55/50

488.7 490.1 491.0 493.6 493.6 495.5 501.x 1.55/50

18.0/65 16.6/40 15.7/15 13.1 13.1/15 11.2/20 5.5/50

489.4 490.9 49x.1 496.5 494.6 495.1 1.55/190

17.3/65 15.8/30 14.6 13.x/25 12.1/50 11.6/60

49x.6 493.0 494.9 495.8 496.7 498.0

14.1/20 13.7/3x 11.8/25 10.9 10.0/25 8.7/50

95+95 = 1.55/50

506.7x

+50				
101				
T.P. 101+50	10.63	541.80	0.04	531.17
100+50				
99+93.76	B.C. PT.			
T.P.	1+90	531.21	0.37	518.31
+47.38	E.C.	ON 5+46		
99				
T.P.	1+03	518.68	007	506.65
		506.72		

531.4 533.7 535.4 537.8 539.4

10.4/50 8.1/20 6.4 4.0/20 2.4/40

524.0 527.3 530.7 533.1 535.3

17.8/40 14.5/30 11.1 8.7/20 6.5/40

541.80

517.0 520.7 525.2 528.1 531.4

14.2/50 10.5/25 6.0 3.1/20 +0.2/40

509.3 515.2 520.03 523.7 526.8

21.9/50 16.0/25 11.18 7.5/20 4.4/40

531.21

503.3 510.7 515.29 519.0 522.1

15.4/60 8.0/25 3.39 +0.3/25 +3.4/50

496.5 498.9 502.2 506.0 508.8 511.5

22.2/45 19.8/50 16.5/25 12.7 9.9/25 7.7/50

518.68

518.6	523.3	528.2	532.0	535.2
23.2 / 50	18.5 / 25	13.6	9.8 / 20	6.6 / 40
521.2	525.4	529.3	532.2	534.9
20.6 / 50	16.4 / 25	12.5	9.6 / 20	6.9 / 40
517.7	522.7	527.1	530.2	533.1
24.1 / 50	19.1 / 25	14.7	11.6 / 20	8.7 / 40
513.7	518.4	524.0	527.1	530.0
28.1 / 50	23.4 / 25	17.8	14.7 / 20	11.8 / 40
523.7	526.4	529.2	531.2	533.4
18.1 / 50	15.4 / 25	12.6	10.4 / 20	8.4 / 40
531.0	531.7	533.6	535.1	536.7
10.8 / 50	10.1 / 20	8.2	6.7 / 20	5.1 / 40
535.3	536.2	537.1	538.2	539.9
4.5 / 40	5.6 / 20	4.7	3.6 / 20	1.9 / 40
536.6	537.8	538.3	539.6	540.9
5.2 / 40	4.0 / 20	3.5	2.2 / 20	0.9 / 40

541.80

450

105

450

104+02.63 E.C.

450

103

450

102

541.80

450				
108	Saddle	good cut here		
Set 817 #7		1.39	550.44	
450				
107				
T.P.	1201	551.83	2.28	539.52
450				
106				
		541.80		

547.4	545.8	545.3	545.3	545.7
4.4 / 40	4.0 / 20	6.5	6.5 / 20	6.1 / 40
550.4	550.2	550.4	550.4	550.8
1.4 / 40	1.4 / 20	1.4	1.4 / 20	1.0 / 40

50' Lt. of 108+00 2x2 PW.

545.7	545.7	546.2	547.1	549.2
4.1 / 40	4.1 / 20	5.6	4.7 / 20	2.4 / 40
536.4	537.2	539.0	541.5	544.1
1.5.4 / 40	14.4 / 20	12.8	10.3 / 20	7.7 / 40

551.83

525.7	529.8	534.0	537.5	540.7
16.1 / 50	12.0 / 25	7.8	4.3 / 20	1.1 / 40
519.7	524.5	528.7	533.2	536.1
21.1 / 50	17.3 / 25	12.9	8.4 / 20	5.7 / 40

541.80

111

+50

+27.76 B.C. HT. STU 6

110

T.P. 0.24 527.35 12.65 527.13

+50

T.P. 0.55 539.78 12.60 539.23

109

551.83

516.3 513.1 510.8 510.2 509.2
11.1/50 14.3/25 14.6 17.2/25 18.2/50

521.1 517.6 516.4 515.4 515.7
6.3/50 9.8/25 11.2 12.0/25 11.7/50

523.0 521.6 520.50 518.4 518.3 520.2
4.4/40 5.8/20 6.85 9.0/20 9.1/36 7.2/50

526.9 525.2 523.8 522.9 521.2 523.6
0.5/40 2.7/25 4.6 4.5/15 4.2/25 3.8/40

527.35

533.7 531.7 529.3 527.6 528.8 530.0
6.1/40 8.1/20 10.5 12.2/8 11.0/20 9.8/40

539.78

540.1 538.1 537.1 537.4 538.3
11.7/40 13.7/20 14.7 12.4/20 13.5/40

551.83

494.2	496.7	499.8	504.4	507.9	511.1
20.5 / 65	18.0 / 45	14.9 / 25	10.3	6.8 / 20	3.6 / 40
495.7	493.6	496.7	500.5	505.0	508.4	511.5
19.0 / 70	21.1 / 65	18.0 / 50	14.2 / 25	9.7	6.3 / 20	3.2 / 40
wash ↗						
499.6	497.1	499.7	500.9	503.4	506.5	509.8
15.1 / 65	17.4 / 53	15.0 / 42	13.8 / 25	11.3	8.2 / 20	4.9 / 40
↑ wash						
	501.0	501.0	503.8	508.5	512.8
& wash →	13.7 / 50	13.7 / 18	10.9	6.2 / 25	1.9 / 50
	503.3	502.2	503.2	507.3	511.9
	11.4 / 50	12.5 / 25	11.5	7.4 / 25	2.8 / 50
		& wash			
	506.8	504.6	504.0	505.7	509.8
	7.9 / 50	10.1 / 25	10.7	9.0 / 25	4.9 / 50
			& wash		
			514.67		
			8		
	510.7	507.7	506.3	506.3	507.1
	16.4 / 50	19.4 / 25	21.0	21.0 / 25	20.2 / 50	& wash
			5=7.35		
			4		

+50				
114				
+50	Start wash to PT dr.			
113				
+50				
112	18" Culv.	diag.	Plot location	
T.P.	0.35	514.67	18.03	514.32
111+50				
		5=7.35		

+50

117

Nail
T.P. Post 7.5 509.15 13.08 501.59

116+50

116+07 small wash Rt.

115+47.30 E.C.

+50

115

514.67

Lt E Rt

491.0 491.2 492.9 499.0 501.7 504.0 505.9

18.2 18.0 16.3 10.2 7.5 5.2 3.3
7.5 5.2 4.5 2.0 2.0 2.0 4.0

487.4 490.6 492.2 493.2 499.2 501.7 504.0

edge water 21.8 18.6 17.0 16.0 10.0 7.5 5.2
5.7 4.5 3.2 3.0 2.0 2.0 4.0

509.15
3

Nail in Post 20' Rt of 116+40

488.7 490.5 490.7 493.0 494.1 497.7 501.0 ~~497.3~~ 504.3

26.0 24.2 24.0 21.7 20.6 17.0 13.7 12.2
6.5 3.8 3.2 2.0 1.7 2.0 5.0 4.0

488.3 490.3 492.6 493.7 495.6 497.5 499.8 500.9

26.4 24.4 22.1 21.0 19.1 17.2 14.9 13.8
6.5 5.0 4.0 3.0 1.7 2.0 5.0 4.0

490.2 491.7 493.1 493.2 495.5 499.7 502.0 504.1

24.5 23.0 21.6 21.5 19.2 15.0 12.7 10.6
7.0 6.0 4.5 3.7 3.0 2.0 5.0 4.0

491.8 493.2 495.4 499.1 500.8 503.2 505.3

22.9 21.5 19.3 15.6 13.9 11.5 9.2
6.5 4.2 4.0 2.0 2.0 5.0 4.0

492.5 495.6 499.7 503.1 505.4 507.6

22.2 19.1 15.0 11.6 9.3 7.1
6.5 5.0 3.5 2.0 5.0 4.0

514.67
3

+50

121

+55.46 B.C. Rt. on stub

120

+50

119

+50

118

509.15

501.3	502.4	506.5	508.4	511.2
7.9 / 50	5.8 / 25	2.7	0.8 / 20	+2.0 / 40
501.0	503.7	506.2	509.2	512.0
8.2 / 50	5.5 / 25	3.0	0.0 / 20	+2.8 / 40
501.3	503.7	506.52	509.5	512.3
7.9 / 50	5.5 / 25	2.63	+0.3 / 20	+3.1 / 40
500.3	502.5	506.2	509.2	512.4
8.9 / 50	6.7 / 25	3.0	0.0 / 20	+3.2 / 40
499.6	502.4	504.5	506.2	508.7	511.7
9.4 / 50	6.8 / 25	4.7 / 17	3.0	0.5 / 20	+2.5 / 40
499.8	502.1	505.1	507.7	511.2
9.2 / 50	7.1 / 25	4.1	1.5 / 20	+2.0 / 40
499.7	502.1	504.7	506.9	509.7
9.5 / 50	7.1 / 25	4.5	2.3 / 20	+0.5 / 40
497.1	500.8	503.9	506.0	508.1
12.1 / 50	8.2 / 25	5.3	3.2 / 20	1.1 / 40

509.15

499.0	498.9	500.2	501.7	504.9	507.5	510.1
17.2 / 50	17.3 / 40	16.0 / 30	14.5 / 25	11.3	8.7 / 20	6.1 / 40

499.9	499.9	501.7	503.2	507.0	508.9	511.5
16.3 / 55	16.3 / 47	14.5 / 45	13.0 / 25	9.2	7.3 / 20	4.7 / 40

501.6	504.9	507.1	509.6	512.0
14.6 / 50	11.3 / 25	9.1	6.6 / 20	4.2 / 40

500.9	503.9	506.9	509.6	511.8
15.3 / 50	12.3 / 25	9.3	6.6 / 20	4.4 / 40

501.1	503.6	506.0	508.5	511.3
15.1 / 50	12.6 / 25	10.2	7.7 / 20	4.9 / 40

516.23

Top iron pin 110' Lt 122 + 50

499.3	503.3	506.0	507.8	511.0
9.9 / 50	5.9 / 25	3.2	1.4 / 20	+1.8 / 40

509.15

122 + 50

T.P. 9.98 516.23 506.25

check to Co. B.M. #8 10.65 495.04 495.01

T.P. 3.26 505.69 12.88 503.43

T.P. 9.06 515.31 2.90 506.25

122

509.15

T.P. 4.21 511.87 8.47 507.41

128

+50

127

+50

126

+55.20 EC ON STUB

125

516.23

500.2 503.0 505.9 508.1 511.0

16.0 13.2 10.3 8.1 5.2
50 25 20 40

500.4 503.6 507.1 509.4 511.5

15.8 12.0 9.1 6.8 4.8
50 25 20 40

500.2 501.6 503.8 506.9 509.9 512.2

16.0 14.6 12.2 6.3 4.0
50 28 25 9.3 20 40

499.6 499.2 501.0 503.2 506.5 508.6 512.5

16.6 17.0 15.2 13.0 7.6 3.7
50 43 40 25 9.7 20 40

499.6 499.5 501.0 503.0 506.5 509.2 511.8

16.6 16.7 15.2 13.2 6.9 4.4
50 44 42 25 9.7 20 40

500.1 500.0 499.4 501.4 503.2 506.21 509.7 512.7

16.1 16.2 16.8 14.8 13.0 6.5 3.5
50 46 42 40 25 10.02 20 40

499.4 499.0 500.0 501.5 505.6 509.1 511.1

16.8 17.2 16.2 14.7 10.6 7.1 5.1
50 40 38 25 25 40

516.23

+50

131

+50

+25 Small Culv. 90°

130

+50

129

+50

511.8+

499.4	501.3	504.2	507.2	509.5
13.4 / 50	10.5 / 35	7.6	4.6 / 20	2.3 / 40
498.6	500.6	503.8	506.2	509.2
13.2 / 50	11.2 / 35	8.0	5.6 / 20	2.6 / 40
495.8	497.6	499.8	502.2	505.7
16.0 / 50	14.2 / 35	12.0	9.6 / 20	6.1 / 40
495.5	498.5	500.3	502.2	504.0
16.3 / 50	13.3 / 35	11.5	9.6 / 20	7.8 / 40
496.5	498.4	500.9	502.8	504.9
15.3 / 50	13.4 / 35	10.9	9.0 / 20	6.9 / 40
498.1	500.4	503.9	506.5	508.8
13.7 / 50	11.4 / 35	7.9	5.3 / 20	3.0 / 40
498.6	501.3	504.6	507.3	510.4
13.2 / 50	10.5 / 35	7.2	4.5 / 20	1.4 / 40
499.1	502.1	505.6	508.4	511.3
12.7 / 50	9.7 / 35	6.2	3.4 / 20	0.5 / 40

511.8+

3

+50					
+25	small Culv.		90°		
134					
T.P.	9.0✓	510.83	10.03	501.79	
+50					
133					
450					
132					
		511.82			

491.1	491.1	494.0	498.9	502.3	505.9
19.7 / 50	19.7 / 35	14.8 / 25	11.9	8.5 / 20	4.9 / 40
	490.4	492.1	496.6	500.5	503.8
	20.4 / 50	18.7 / 25	14.7	10.3 / 20	7.0 / 40
490.4	491.5	492.5	497.5	500.8	504.4
20.4 / 50	19.3 / 35	18.3 / 25	13.3	10.0 / 20	6.4 / 40
			510.83		
	492.8	496.1	500.6	503.3	506.8
	19.0 / 50	15.7 / 25	11.7	8.5 / 20	5.0 / 40
	494.1	497.6	501.5	504.6	508.0
	17.7 / 50	14.2 / 25	10.3	7.2 / 20	3.8 / 40
	496.9	500.2	503.7	507.0	509.0
	14.9 / 50	11.6 / 25	8.1	4.8 / 20	2.8 / 40
	498.5	501.8	507.4	507.1	509.4
	13.3 / 50	10.0 / 25	7.4	4.7 / 20	2.4 / 40
			511.82		

+50

138

+50

137

+50

136

+50

135

510.83

506.2	505.7	508.0	510.8	514.6	517.8	521.0
4.6 / 50	5.1 / 38	2.8 / 35	0.0 / 25	+3.8	+7.0 / 20	+10.2 / 40
504.2	503.2	505.7	509.3	512.3	515.7	518.8
4.6 / 50	7.6 / 38	5.1 / 36	1.5 / 20	+1.5	+4.9 / 20	+8.0 / 40
501.6	501.0	504.0	505.7	510.0	512.7	515.8
9.2 / 50	9.8 / 39	4.8 / 36	5.1 / 25	0.8	+1.9 / 20	+5.0 / 40
498.8	498.8	501.2	504.4	507.9	511.9	514.8
12.0 / 50	12.0 / 43	9.6 / 40	6.4 / 35	2.9	+1.1 / 20	+4.0 / 40
499.3	502.5	504.1		507.7	511.8	514.3
11.5 / 50	8.3 / 36	6.7 / 35		3.1	+1.0 / 20	+3.5 / 40
497.8	502.3			506.6	509.8	513.1
12.0 / 50	8.5 / 25			4.2	1.0 / 20	+2.3 / 40
	495.7	500.9		504.7	508.0	511.6
	15.1 / 50	9.9 / 25		4.1	2.8 / 20	+0.8 / 40
491.5	494.2	497.2		502.5	505.7	509.7
19.3 / 50	16.4 / 44	13.6 / 25		8.3	5.1 / 20	1.1 / 40

510.83

check to Co. B.M. #9			1.60	527.24	527.21
T.P.	11.60	528.84	3.06	517.24	
142					
+50					
141					edge water
+50					
140					
+50					
139					
T.P.	12.21	520.30	2.76	508.09	
		510.83			

Iron Pin = 53 RT 141 +10

500.4	504.2	510.3	515.8	519.8	519.6	521.8	524.4
19.9 / 65	14.1 / 50	10.0 / 25	4.5	0.5 / 13	0.7 / 38	+1.5 / 30	+4.1 / 40
	495.3	501.4	508.7	515.6	518.6	518.3	520.8	522.9
	25.0 / 75	17.9 / 50	11.4 / 25	4.7	1.7 / 14	2.0 / 28	+0.5 / 30	+2.6 / 40
477.3	489.8	492.8	500.6	509.2	516.0	516.2	519.0	521.6
33.0 / 20	30.5 / 50	27.5 / 27	19.7 / 25	11.1	4.3 / 15	4.1 / 28	1.3 / 30	+1.3 / 40
	490.6	494.7	503.3	511.5	513.2	513.7	516.2	521.3
	29.7 / 60	25.6 / 50	17.0 / 25	8.8	7.1 / 3	6.9 / 17	4.1 / 20	+1.0 / 40
502.5	508.6	517.6		513.0	515.2	518.9	523.3	
17.8 / 50	11.7 / 25	2.7 / 15		7.3	5.1 / 2	1.4 / 20	+3.0 / 40	
	506.4	511.2	510.4	513.3	516.4	520.3	524.3	
	13.9 / 50	9.1 / 33	9.9 / 21	7.0 / 18	3.9	0.0 / 20	+4.0 / 40	
	506.9	508.8	507.9	511.4	513.1	516.5	520.3	523.8
	13.4 / 50	11.5 / 46	12.4 / 31	9.9 / 30	7.2 / 15	3.8	0.0 / 20	+3.5 / 40

520.30

+50				
1.45				
+50				
1.44				
T.P.	12.66	539.14	2.36	526.48
+50				
1.43				
+50				

528.84

515.1	521.9	524.6	527.4	527.1	529.7	534.0	537.3	
24.0/60	17.2/30	14.5/20	11.7/15	12.0	9.2/1	5.1/20	1.8/40	
508.8	518.4	522.4	525.3	524.8	525.1	527.8	531.3	534.4
30.3/60	20.7/30	16.7/15	13.8/10	14.3	14.0/6	11.3/9	7.8/25	4.7/20
499.0	503.1	513.4	519.8	524.8	523.2	525.8	531.0	
40.1/60	36.0/50	25.7/25	19.3/15	16.5	15.9/16	13.3/19	8.1/40	
487.8	493.6	499.0	510.7	518.8	523.0	524.7	524.7	527.9
51.3/75	45.5/65	40.1/50	28.4/25	20.3	16.1/10	16.4/23	14.4/25	11.2/40

539.14

x mark in fence line

497.3	503.2	511.3	517.7		522.3	521.8	524.7	527.4
31.5/65	25.6/50	17.5/25	11.1		6.5/13	7.0/28	4.1/32	1.4/20
495.8	500.6	507.8	514.9	517.8	520.2	520.1	522.4	524.4
33.0/65	28.2/50	21.0/25	13.9	11.0/12	8.6/16	8.7/30	6.4/32	4.4/40
495.3	501.4	508.5	514.6	519.8	519.6	521.7	523.5	
33.5/65	27.4/50	20.3/25	14.2	9.0/15	9.2/30	7.1/32	5.3/40	

528.84

+50				
148				
+50				
T.P.	12.70	551.84	0.00	539.14
147				
+90				
+50				
146				
		539.14		

538.4 542.1 545.3 548.1 550.0

13.4/50 9.7/25 6.5 3.7/24 1.8/40

534.8 539.5 543.0 545.7 548.1

17.0/50 12.3/25 8.8 6.1/20 3.7/40

529.1 529.3 534.0 535.1 539.6 542.8 546.0

22.7/50 22.5/45 19.8/42 14.7/25 12.7 9.0/20 5.8/40

551.84 / 7

525.6 531.1 533.6 533.4 5353 530.6 541.6 544.9

13.5/50 8.0/30 5.5/23 5.7/10 3.8/8 1.5 +7.5/20 +5.8/40

515.5 526.4 533.9 533.5 535.9 536.8 540.9 544.6

23.6/50 12.7/30 5.4/24 5.6/7 3.7/5 2.3 +1.8/20 +5.5/40

514.1 526.8 530.6 533.1 533.8 535.3 539.1 543.1

25.0/50 12.3/34 8.5/21 6.0/16 4.0 3.8/3 0.0/20 +4.0/40

520.3 525.6 528.6 530.6 530.0 534.4 536.4 540.1

18.8/50 13.5/30 10.5/19 8.5/16 9.1 6.7/1 2.7/20 +1.0/40

539.14 / 7

1+50					
T.P.	0.65	527.38	12.07	526.73	
151					
	0.55	539.40		538.85	T.P.
check to B.M. #10			5.54	544.84	544.81
T.P.	11.51	550.36	12.99	538.85	
1+50					
150					
1+50					
149					
		551.84			

515.5 515.6 517.6 518.7 520.7 522.6 526.4

11.9/50 11.8/25 9.8/25 8.7/25 4.7 4.8/20 1.0/40

527.38

526.0 527.9 530.2 531.8 533.8

13.4/50 11.5/25 9.2 7.6/20 5.6/40

539.40

12' LT of 149+00 55' R.P. iron pin #1+50 R.S.

532.8 535.2 537.6 539.9 541.7

19.0/50 16.6/25 14.2 11.9/20 10.1/40

537.3 540.5 543.6 545.8 547.4

14.5/50 11.3/25 8.2 6.0/20 4.4/40

538.8 542.8 546.1 548.4 550.6

13.0/50 9.0/25 5.7 3.4/20 1.2/40

539.3 543.4 546.3 548.7 550.7

12.5/50 8.4/25 5.5 3.1/20 1.1/40

551.84

154

+50

153

15+ +77.07 BC LT. Put in small Culv.

+50

+25

15+

+75

527.38

510.4	514.6	518.7	522.0	524.4	523	525.5
17.0 / 50	12.8 / 25	8.7	7.2 / 18	3.0 / 23	4.1 / 38	1.9 / 40
507.6	512.0	516.2	519.7	522.1	521.9	
19.8 / 50	15.4 / 25	11.2	7.7 / 20	5.3 / 27	5.5 / 40	
502.5	506.6	510.3	514.2	517.2	519.2	
24.9 / 50	20.8 / 25	17.1	13.2 / 20	10.2 / 34	8.2 / 40	
502.5	504.7	509.2	512.4	517.4		
24.9 / 50	22.7 / 25	18.2	15.0 / 20	10.0 / 40		
503.4	506.4	510.2	513.2	516.1	516.4	
24.0 / 50	21.0 / 25	17.2	14.2 / 20	11.3 / 30	11.0 / 40	
506.8	508.6	512.4	515.8	515.6	517.4	518.4
22.6 / 50	18.8 / 25	15.0	11.6 / 13	11.8 / 30	10.0 / 31	9.0 / 40
509.0	509.4	510.8	515.4	514.9	515.5	516.9	518.8	521.4
18.4 / 50	18.0 / 42	16.6 / 20	12.0 / 12	12.5	11.9 / 12	10.5 / 13	8.6 / 25	6.0 / 40
512.0	515.0	514.8	516.0	516.7	520.0	523.1		
15.4 / 50	12.4 / 32	12.4 / 7	11.4 / 5	10.7	7.4 / 20	3.7 / 40		

527.38

158

+50

157

+46.50 E.C. ON STUB

156

+50

155

+50

T.P. 11+41 533.47 5.32 522.06

527.38

LT			℄		RT		
518.5	521.9	524.6	527.4	528.2	530.5	530.1	
15.0/50	11.4/25	8.9	6.1/20	5.3/30	3.0/32	3.4/40	
521.3	523.6	526.5	528.7	529.8	531.2	530.8	
12.2/50	9.9/25	7.0	4.8/20	3.7/32	2.3/36	2.7/40	
522.2	524.6	527.7	530.0	532.3	532.4		
11.3/50	8.9/25	5.8	3.5/20	1.2/35	1.1/40		
521.4	524.5	528.00	529.8	532.9			
12.1/50	9.0/25	5.47	3.7/16	0.6/40			
521.0	524.4	527.5	530.0	529.7	530.9	532.7	
12.5/50	9.1/25	4.0	3.5/10	3.8/28	2.6/29	0.6/40	
517.7	521.7	527.3	528.8	528.8	530.5	531.5	
15.8/50	11.6/25	11.2	4.7/12	4.7/30	3.0/32	2.0/40	
516.8	520.5	524.2	526.7	528.0	527.4	529.1	527.7
16.7/50	13.0/25	9.3	6.8/16	5.5/19	4.1/35	4.4/36	3.6/40
513.5	517.5	521.2	524.2	525.9	525.4	527.2	527.5
20.0/50	16.0/25	12.3	9.3/18	7.6/22	8.1/37	6.3/38	4.0/40

533.47/8

CONT. IN F.B.

161				
160+79.04	B.C. L.T.	ON STUB		
T.P	0.45	518.83	12.28	518.38
+50				
160				
+50				
159				
158+50				
T.P.	5.16	530.66	7.97	525.50
		533.47		

498.6	502.9	507.4	512.2	516.0	
20.2 / 50	15.9 / 25	11.4	4.6 / 20	2.8 / 40	
500.5	505.1	509.57	513.8	518.0	
18.3 / 50	13.7 / 25	9.26	5.0 / 20	0.8 / 40	

518.83

503.7	508.3	513.8		517.8	520.5	522.1
27.0 / 50	22.4 / 25	14.9		12.9 / 20	10.2 / 27	8.6 / 42 TREE
510.7	516.4	520.3	523.4	524.8	525.8	525.7
20.0 / 50	14.3 / 25	10.4	7.3 / 20	5.9 / 37	4.9 / 56 TREE	5.0 / 40
518.1	522.2	525.4	527.8	528.7	528.5	
12.4 / 50	8.5 / 25	5.3	2.9 / 27	2.0 / 20	2.2 / 40	
520.4	523.9	526.0	528.4	530.1	529.9	
10.3 / 50	6.8 / 25	4.7	2.3 / 20	0.6 / 30	0.8 / 40	
519.4	521.9	525.2	527.9	530.3	530.3	
11.3 / 50	8.8 / 25	5.5	2.8 / 20	0.4 / 33	0.4 / 40	

530.66

99+93.76
99+47.38
46.38

4.2972
20
2 | 4.8600
180
54.

491.82 = Co. assmd. El. of B.M.
31.03 Correction
522.85 = U.S.G.S.

502.2 USGS

501.97 USGS = 155' Contour. (To be run out)

499.55 USGS = 150' " (existing)

88+36.26 Bc. Rt
4+98.79
93+34.55

120+55.46
115+67.3
488.16

31+
30+12.06
87.94

192-44
96-22

206.26 / 103 / 13.00 / 66 / 40

179-60
141-46
38'-14'

6.875 / 50 / 343.750 / 36 / 43

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½

For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9+(20—16)÷2 or 2 ft. added to 41.9 =43.9. For slopes of 1 on 1 see inside of front cover.

MADE IN U.S.A.

88+36.26
86+35.68
2 00.58

206.31 / 41 05 / 165.26

3 65

35.90