1385

ATLANTIC ST.

EXTENSION

POSTS

LEVEL BOOK

No. 3207

Our Leather Bound Engineers Note Books are carried in the following rulings:

No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.

No. 382 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 4 x 4 to the inch, Center Line Red.

No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 8x8 to the inch, Center Line Red.

No. 385 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 8 vertical and 4 horizontal lines to the inch, Center Line Red.

We also carry the Note Books listed above, bound in extra strong Fabri-Hide (otherwise the same quality of book), which can be furnished at a somewhat lower price.

In ordering Fabri-Hide covered books, add the letter *"F"* to catalog number.

THE FREDERICK POST CO.

ENGINEERING and DRAFTING SUPPLIES

IRVING PARK STATION

CHICAGO, ILL.

Index

Walker
Higgins
Drebert
Mattoon
2-30

CROSS SECTION ATLANTIC St. Extension
120' Wide From Station 0+00 to Sta 36+00
thence 100' Wide From 36+00 to Sta.

3.54	22.85		19.31	U.S.G.S.B.M. Balboa Rd Base Canyon

£ Balboa Ave = 0+00 Section Parallel to Balboa Ave

E -25		2.5	20.4
E		3.1	19.8
£		4.2	18.7
W		5.3	17.6
+25		5.8	17.1

0+5.85 = N edge Paving   Section Parallel to Paving

-25' on Paving		6.02	16.83
W " "		5.46	17.39
£ " "		4.35	18.50
E " "		3.12	19.73
+25 " "		2.51	20.34

0+25.85 = South edge Paving   Section Parallel to Paving

-25 " "		2.51	20.34
E " "		3.11	19.74
£ " "		4.31	18.54
W " "		4.88	17.97
+25 " "		6.01	16.84

0+36

-25		5.9	17.0
W		5.4	17.5
£		4.5	18.4
E		3.0	19.9
+25		2.3	20.6

22.85

0+40

-25		3.6	19.3
E		3.9	19.0
£		4.5	18.4
W		5.6	18.3
+25		6.1	16.8

0+50

-25'		5.0	17.9
W		4.8	18.1
£		4.2	18.7
E		2.1	20.8
+25		1.0	21.9

0+61.89 = ∆ Lt. 8°52' Section on Bisector.

-25		1.5	21.4
E		1.8	21.1
+15		2.3	20.6
+20		3.3	19.6
£ on Hub.		5.05	17.80
W		6.0	16.9
+25		6.4	16.5

1+00

-25'		7.2	15.7
W		6.5	16.4
£		5.0	17.9
+35		3.9	19.0
+40		2.5	20.4

E.			2.2	20.7	
+25			2.0	20.9	
	1+50				
-25			2.4	20.5	
E.			2.4	20.5	
+10			2.5	20.4	
+15			4.1	18.8	
L			5.4	17.5	
+15			6.3	16.6	
+25			7.1	15.8	
M.			7.1	15.8	
+25			7.2	15.7	
	2+00				
-25			7.2	15.7	
M			7.1	15.8	
+15			5.7	17.2	
+22			6.8	16.1	
+40			7.0	15.9	
L			5.1	17.8	
+40			4.3	18.6	
E			3.0	19.9	
+25			2.4	20.5	
	2+50				
-25			2.5	20.4	
E			3.3	19.6	
+10			5.8	17.1	

L			6.4	16.5	
+10			7.3	15.6	
+22			6.1	16.8	
+45			7.5	15.4	
M			7.5	15.4	
+25			7.9	15.0	
	3+00				
-25			7.9	15.0	
M			8.0	14.9	
+22			7.0	15.9	
+28			6.3	16.6	
L			7.1	15.8	
+40			6.2	16.7	
L			4.2	18.7	
L+25			3.1	19.8	
	3+50				
E-25			4.1	18.8	
E			5.3	17.6	
+5			6.6	16.3	
L			7.5	15.4	
+22			7.0	15.9	
+48			8.1	14.8	
M			7.4	15.5	
+10			7.6	15.3	
+25			8.4	14.5	
	4+00				

Left page

Station				
		22.85		
-25			8.7	14.2
-13			8.3	14.6
-10			7.9	15.0
M			8.5	14.4
+25			7.7	15.2
+42			6.7	16.2
℄			7.7	15.2
+10			6.3	16.6
℄			6.9	16.0
+5			6.1	16.8
+25			5.0	17.9
T.P.	1.06	18.93	4.98	17.87
4+50				
-25			1.6	17.3
℄			2.6	16.3
+15			3.5	15.4
+40			2.9	16.0
℄			3.7	15.2
+24			4.0	14.9
M			4.9	14.0
+3			4.0	14.9
+12			4.7	14.2
+25			5.0	13.9

5+00.39 P.C. Lt 19°35' ℄ R=1933.7   sections in this curve on Radial line

Station				
-25			5.6	13.3
-10			4.8	14.1

Right page

Station				
		18.93		
M			4.7	14.2
+1			5.5	13.4
+10			4.1	14.8
℄ on Hub.			4.30	14.63
+5			3.7	15.2
+28			3.2	15.7
+37			4.2	14.7
℄			3.4	15.5
+8			2.2	16.7
+25			2.2	16.7
5+50				
-25			1.7	17.2
℄			3.8	15.1
+10			4.3	14.6
+21			3.6	15.3
℄			4.4	14.5
M			5.4	13.5
+25			5.9	13.0

6+00 = beginning Cobble Wall on West on Sk'y Line MAGNOLIA Ave.

Station				
-25 on Wall			4.5	14.4
-25 " Ground			5.5	13.4
M " "			4.8	14.1
" " Wall			3.8	15.1
+15			5.9	13.0
℄			4.4	14.5
+25			4.0	14.9

Ɫ	4.5	14.4
+6	4.4	14.5
+13	2.9	16.0
+25	2.0	16.9
6+50		
-25	+1.5	20.4
-17	0.0	18.9
Eo	4.3	14.6
Ɫ	4.8	14.1
+31	5.9	13.0
+36	6.8	12.1
W	6.6	12.3
+4 =Base of cobble Wall	6.6	12.3
+5 = top " " "	4.7	14.2
7+00		
-6' on top cobble Wall	5.5	13.4
-6 Base " "	7.5	11.4
W	7.5	11.4
+13	7.5	11.4
+25	5.7	13.2
Ɫ	5.0	13.9
E	4.8	14.1
+20	+4.7	23.6
7+50		
-20	+6.2	25.1
E	4.8	14.1

Ɫ	5.1	13.8
+27	5.4	13.5
+40	7.9	11.0
W	7.7	11.2
+6 = Base Cobble Wall	7.6	11.3
+7 top " "	6.3	12.6
8+00		
-9 = top cobble Wall	6.6	12.3
-8 = Base " "	8.1	10.8
W	9.2	9.7
+10	8.6	10.3
+25	5.5	13.4
Ɫ	5.3	13.6
E	4.1	14.8
+20	+4.8	23.7
onWest 8+24 =End Cobble Wall on top	6.4	12.5
8+50		
-10	4.2	14.7
E	4.6	14.3
Ɫ	5.7	13.2
+25	5.9	13.0
+38	9.2	9.7
W	9.3	9.6
+20	9.3	9.6
9+00		
-20	9.6	9.3

Left page

Sta.	BS	HI		
	18.93			
−3			9.7	9.2
W			10.1	8.8
+17			9.6	9.3
+34			5.7	13.2
₵			5.8	13.1
+24			6.6	12.3
E			6.2	12.7
+15			1.4	17.5
9+50				
−10			6.4	12.5
E			7.2	11.7
₵			5.8	13.1
+22			6.8	12.1
+33			10.1	8.8
W			10.2	8.7
+20			10.2	8.7
T.P.	6.99	16.62	9.30	9.63
10+00				
−20			8.8	7.8
W			8.1	8.5
+25			8.1	8.5
+35			4.0	12.6
₵			3.9	12.7
E			4.9	11.7
+10			5.8	10.8
10+50				

Right page

Sta.				
		16.62		
−20			5.4	11.2
E			5.8	10.8
+20			6.3	10.3
₵			4.1	12.5
+13			4.6	12.0
+20			7.1	9.5
+29			8.7	7.9
W			9.2	7.4
+1			8.5	8.1
+25			9.8	6.8
11+00				
−25			10.6	6.0
−10			9.0	7.6
W			9.6	7.0
+25			9.2	7.4
+34			7.1	9.5
+40			4.6	12.0
₵			4.3	12.3
+15			6.3	10.3
E			6.1	10.5
+20			6.0	10.6
11+61.92 =E.C.				
−20'			6.4	10.2
E			6.6	10.0
+15			6.8	9.8
+20			5.7	10.9

+40		6.3	10.3
₵ on Hub.		4.56	12.06
+6		5.1	11.5
+15		9.1	7.5
+28		9.8	6.8
W		9.8	6.8
+25		11.6	5.0
12+00			
-25		11.8	4.8
-10		11.3	5.3
-15		10.0	6.6
+28		8.4	8.2
+30		9.4	7.2
+35		9.0	7.6
+45		5.2	11.4
₵		4.6	12.0
+6		5.0	11.6
+10		6.3	10.3
+25		5.4	11.2
+30		7.1	9.5
E		6.7	9.9
+70		6.3	10.3
13+00			
-70		6.3	10.3
E		6.6	10.0
+40		6.8	9.8

+45		5.5	11.1
₵		4.9	11.7
+6		5.9	10.7
+13		9.5	7.1
+26		10.4	6.2
W		8.1	8.5
+10		7.1	9.5
+15		12.3	4.3
+25		12.7	3.9
14+00			
-25		12.0	4.6
W		10.6	6.0
+35		9.1	7.5
+45		6.3	10.3
₵		5.3	11.3
+6		6.1	11.5
+11		7.5	9.1
E		6.4	10.2
+20		6.1	10.5
15+00			
-20		7.2	9.4
E		7.4	9.2
+40		7.6	9.0
+45		6.1	10.5
₵		5.6	11.0
+6		6.6	10.0

Station				
+13			10.0	6.6
W			10.8	5.8
+10			11.0	5.6
+25			12.1	4.5
16+00				
-25			11.5	5.1
-10			10.5	6.1
W			10.3	6.3
+35			10.2	6.4
+43			7.1	9.5
₵			6.1	10.5
+7			6.9	9.7
+11			8.0	8.6
E			7.2	9.4
+25			6.7	9.9
T.P.	3.49	14.37	5.74	10.88
17+00				
-25			3.8	10.6
E			5.0	9.4
+40			5.8	8.6
₵			4.3	10.1
+6			4.8	9.6
+16			7.6	6.8
W			7.9	6.5
+20			7.5	6.9
18+00				

Station				
-25'			7.8	6.6
W			7.5	6.9
+35			7.3	7.1
+45			5.3	9.1
₵			4.6	9.8
+10			5.1	9.3
E			4.5	9.9
+20			4.1	10.3
19+00				
-20			4.4	10.0
E			5.3	9.1
+40			5.3	9.1
₵			4.6	9.8
+6			5.3	9.1
+12			6.8	7.6
W			7.5	6.9
+25 on old RR Bed			5.9	8.5
19+50				
-25'			6.4	8.0
-10			5.1	9.3
W			6.1	8.3
+5			6.6	7.8
+30			5.9	8.5
+35			7.2	7.2
+43			5.5	8.9
₵			4.8	9.6

+10			5.3	9.1
+13			5.6	8.8
E			5.3	9.1
+25			4.5	9.9
20+00				
-25			4.7	9.7
E			5.5	8.9
+40			5.6	8.8
¢			4.8	9.6
+6			5.8	8.6
+10			7.6	6.8
+18			7.7	6.7
+37 on old RR. Bed.			5.0	9.4
M " " " "			5.0	9.4
+25			8.0	6.4
20+75				
-25			9.2	5.2
M - 3'			8.6	5.6
M			7.7	6.7
+5' on RR Bed.			6.2	8.2
+17 " " "			4.8	9.6
+30			5.4	9.0
+33			7.0	7.4
+40			7.5	6.9
+42			5.9	8.5
¢			5.0	9.4

+10			5.7	8.7
+45			5.9	8.5
E			5.4	9.0
21+00				
-25			3.7	10.7
E			5.6	8.8
+5			6.0	8.4
+40			5.7	8.7
¢			5.1	9.3
+28			4.9	9.5
+42			6.0	8.4
M			8.6	5.8
+25'			9.7	4.7
22+00				
-25			10.4	4.0
M			9.3	5.1
+20			8.5	5.9
+28			6.1	8.3
+38			5.0	9.4
¢			5.3	9.1
+10			6.1	8.3
E			5.9	8.5
+8			5.7	8.7
+13			4.6	9.8
+25			4.2	10.2
23+00				

Sta.					
₵ -25'			4.5	9.9	
₵			5.4	9.0	
+5			5.6	8.8	
+40			6.7	7.7	
₵			5.3	9.1	
+10			6.0	8.4	
+20			8.3	6.1	
M			8.5	5.9	
+25			10.1	4.3	
T.P.	3.90	14.05	4.22	10.15	on Con. Mon. on ₵ opp. 23+00
24+00					
-25'			8.1	6.0	
M			7.2	6.9	
+20			7.4	6.7	
+35			6.7	7.4	
+42			5.6	8.5	
₵			5.2	8.9	
+5			5.5	8.6	
+25			4.5	9.6	
₵			4.8	9.3	
+20			3.0	11.1	
25+00					
-25'			3.0	11.1	
₵			3.0	11.1	
+5			3.9	10.2	
+30			4.2	9.9	

Sta.				
₵			5.0	9.1
+23			5.9	8.2
+28			6.9	7.2
+43			6.3	7.8
M			6.9	7.2
+25'			7.8	6.3
26+00				
-25'			6.5	7.6
-12			5.7	8.4
M			6.2	7.9
+7			5.7	8.4
+20			6.3	7.8
+35			5.1	9.0
+36			4.5	9.6
₵			5.3	8.8
+10			5.2	8.9
+16			3.6	10.5
+41			3.7	10.4
₵			3.4	10.7
+25			2.4	11.7
26+39.17 = P.O.T.				
-24			1.4	12.7
₵			2.8	11.3
+5			3.1	11.0
+33			3.9	10.2
+36			4.8	9.3

L on Hub.		5.27	8.78
+15		5.3	8.8
+22		5.2	8.9
+28		6.3	7.9
₵		6.7	7.4
+8		6.7	7.4
+25		7.0	7.1
27+00			
-25		7.1	7.0
-10		6.6	7.5
₵		6.1	8.0
+10		5.6	8.5
+21		6.2	7.9
+35		4.8	9.3
+37		5.5	8.6
₵		5.2	8.9
+13		5.0	9.1
+16		3.5	10.6
+54		2.9	11.2
+40		1.7	12.4
₵		1.7	12.4
+25		1.7	12.4
28+00			
-15		0.7	13.4
₵		2.2	11.9
+5		2.7	11.4

+25			2.3	11.8
+33			2.7	11.4
+38			4.8	9.3
+43			5.8	8.3
₵			5.4	8.7
+14			5.5	8.6
+16			4.1	10.0
+24			4.7	9.4
+28			5.5	8.6
+45			4.9	9.2
₵			5.2	8.9
+25			6.3	7.8
29+00				
-25			5.3	8.8
-10			4.8	9.3
₵			4.3	9.8
+10			3.9	10.2
+24			4.6	9.5
+35			2.6	11.5
+40			5.7	8.4
₵			5.5	8.6
+8			5.6	8.5
+19			2.3	11.8
₵			1.8	12.3
+25			+0.3	14.4
T.P.	4.18	16.09	2.14	11.91

30+00			
E -25		1.1	15.0
E		2.8	13.3
+33		3.5	12.6
+40		7.4	8.7
Ł		7.7	8.4
+10		7.7	8.4
+16		3.9	12.2
+30		6.0	10.1
W		5.5	10.6
+10		5.8	10.3
31+00			
-25		7.0	9.1
W		6.1	10.0
+10		5.7	10.4
+20		6.0	10.1
+31		4.3	11.8
+35		4.7	11.4
+40		8.6	7.5
Ł		7.9	8.2
+6		8.4	7.7
+13		7.0	9.1
+20		3.5	12.6
E		2.8	13.3
+10		1.7	14.4

32+00			
-10		3.0	13.1
E		4.7	11.4
+10		5.4	10.7
+33		4.8	11.3
+36		7.4	8.7
+44		8.5	7.6
Ł		7.9	8.2
+10		8.6	7.5
+15		5.0	11.1
+30		7.7	8.4
W		7.2	8.9
+25		8.4	7.7
33+00			
-25'		10.3	5.8
W		9.3	6.8
+20		9.7	6.4
+28		8.4	7.7
+35		7.9	8.2
+40		9.2	6.9
Ł		8.2	7.9
+6		8.8	7.3
+16		6.2	9.9
+38		7.0	9.1
E		6.3	9.8
+10		3.9	12.2

34+00				
-10			6.0	10.1
E			7.4	8.7
+7			8.3	7.8
+15			7.9	8.2
+35			8.0	8.1
+44			9.1	7.0
¢			8.3	7.8
+10			9.1	7.0
+30			11.0	5.1
+45			10.4	5.7
W			10.7	5.4
+25			12.2	3.9
T.P	3.93	11.81	8.21	7.88
35+00				
-25			9.0	2.8
W			8.6	3.2
+18			7.8	4.0
+22			7.0	4.8
+34			7.1	4.7
+40			4.9	6.9
¢			4.5	7.3
+10			4.8	7.0
+15			6.2	5.6
+10			5.9	5.9
E			5.0	6.8

+10			4.0	7.8
35+45				
-25			4.9	6.9
E			5.5	6.3
+15			6.5	5.3
+35			7.2	4.6
+42			4.9	6.9
¢			4.5	7.3
+10			5.3	6.5
+16			7.2	4.6
+35			8.6	3.2
W			9.2	2.6
+25			10.3	1.5
35+55 = P.C. Rt.				
-25'			10.5	1.3
W			9.5	2.3
+33			9.5	2.3
+43			5.2	6.6
¢			4.3	7.5
+9			5.2	6.6
+15			7.4	4.2
E			6.3	5.5
+25			4.4	7.4
chk. on B.P. 81% Con Mon			5.37	6.44
P.O.T. = 36+00				
-10			5.1	6.1

35+60 55' R ¢

Note this Section And all other Sections South are 100'

11.81

Station	BS	HI	FS	Elev
Ɛ			6.0	5.8
+7			7.5	4.3.
+21			7.4	4.4
+35			7.8	4.0
+42			4.5	7.3
Ɛ on Hub. P.O.T.			4.58	7.23
+7			5.2	6.6
+28			10.3	1.5
Y1			11.4	0.4
+10			11.4	0.4
T.P.	4.15	10.79	5.17	6.64
T.P.	4.42	10.63	4.58	6.21
T.P.	4.42	10.75	4.30	6.33
T.P.	4.81	10.72	4.84	5.91
T.P.	4.61	10.36	4.97	5.75
T.P.	4.67	10.33	4.70	5.66
T.P.	4.08	9.53	4.88	5.45
T.P.	7.29	12.39	4.53	5.00
T.P.	3.70	15.75	0.2A	12.05
			4.30	11.45
T.P.	8.82	14.27	4.30	11.45
T.P.	5.30	13.48	6.09	8.18
T.P.	4.99	15.03	3.44	10.04
T.P.	1.83	12.27	4.59	10.44
T.P.	3.30	5.11	10.46	1.81
T.P.	3.57	2.32	6.36	-1.25

on Ɛ Hub.B.C. Sta. 5+53.97

Con Mon. inside Santa Fe Rt of Way
SW.BP. Jillette & Lasalle Street

Note this line Levels Cont Book 1385-21

36+36

Station	BS	FS		Elev	Notes
To 33	8.77			6.44	BM on Con Mon 35+ 35+60 on P-12
-15			9.4	-0.6	
Y1			8.5	+0.3	
+30			7.6	1.2	
+46			2.2	6.6	
Ɛ			1.7	7.1	
+8			2.5	6.3	
+16			5.5	3.3	
Ɛ			3.8	5.0	
+10			2.0	6.8	

36+41

Station			FS	Elev	Notes
-10			1.8	7.0	
Ɛ -5			2.3	6.5	
Ɛ			4.9	4.4	
Ɛ			6.1	2.7	20.5? 11.5?
Y1			8.8	0.0	
+15			9.8	-1.0	

36+49

Station			FS	Elev
-15			9.8	-1.0
Y1			9.9	-1.1
Ɛ			6.1	+2.7
E			4.4	4.4
+5			2.1	6.7
+10			1.9	6.9

	36+52					+28			4.7	4.1
-10			2.1	6.7		+35			2.2	6.6
-5			39	4.9		+44			1.8	7.0
E.			41	4.7		¢.			2.3	6.5
+33			5.7	3.1		+5			3.0	5.8
+41			2.3	6.5		+15			6.9	1.9
¢.			2.9	5.9		+35			8.3	0.5
+5			2.5	6.3		¼			8.2	0.6
+17			7.3	1.5		+15			9.2	-0.4
¼			8.8	0.0		+20			10.8	-2.0
+15			9.8	-1.0			38+00			
	37+00					-15			11.5	-2.7
-15			9.0	-0.2		¼			11.3	-2.5
¼			9.1	-0.3		+1			9.1	-0.3
+20			8.7	+0.1		+15			8.8	0.0
+38			7.8	1.0		+42			6.5	2.3
+44			2.8	6.0		¢			2.8	6.0
¢			2.0	6.8		+10			1.9	6.9
+13			2.0	6.8		+20			2.2	6.6
+20			5.1	3.7		+25			4.6	4.2
E.			1.0	4.8		E.			3.8	5.0
+5			3.4	5.4		+10			2.5	6.3
+10			0.8	8.0			38+50			
	37+50					-10			+7.8	10.6
-10			2.6	6.2		-6			+0.9	9.7
E.			4.2	4.6		E.			3.7	5.1

Station				Station		
+21		4.2	4.6	+23	2.3	6.4
+27		2.3	6.5	+33	3.6	5.2
+35		2.0	6.8	+42	8.2	0.6
+44		3.0	5.8	£	9.2	-0.4
£		6.3	2.5	+13	11.2	-2.4
+10		8.3	0.5	+40	11.4	-2.6
+30		9.6	-0.8	M	12.6	-3.8
+32		11.1	-2.3	+15	13.3	-4.5
M		11.2	-2.4			
+15		11.6	-2.8	40+00		
39+00				-15	13.3	-4.5
				M	12.3	-3.5
-15		13.2	-4.4	+23	10.9	-2.1
M		11.8	-3.0	£	10.7	-1.9
+25'		11.3	-2.5	+15	8.8	0.0
+33		9.3	-0.5	+26	3.3	+5.5
£		7.5	+1.3	+35	2.5	6.3
+12		2.8	+6.0	E	2.4	6.4
+20		2.1	+6.7	+10	1.5	7.3
+32		2.4	+6.4	40+50		
+37		3.7	+5.1	-10	3.5	5.3
£		3.2	+5.6	-5	3.6	5.2
+10		1.4	7.4	E	2.7	6.1
39+50				+10	2.6	6.2
-10		1.7	7.1	+17	3.2	5.6
E		2.8	6.0	+25	7.1	1.7
				£	9.8	-1.0

⅄			12.6	−3.8
+15			13.0	−4.2
	41+00			
−15			13.3	−4.5
⅄			12.9	−4.1
Ł			10.0	−1.2
+20			9.8	−1.0
+33			6.6	+2.2
+41			3.4	5.4
Ł			2.6	6.2
+10			2.9	5.9
	41+50			
−10			2.8	6.0
Ł			3.4	5.4
+05′			5.5	3.3
+18′			5.6	3.2
+20′			10.0	−1.2
Ł			12.3	−3.5
+20			13.9	−5.1
⅄			14.1	−5.3
+15			14.1	−5.3
	42+00			
−15′			14.9	−6.1
⅄			14.9	−6.1
Ł			13.7	−4.9
+37			10.0	−1.2

+40			4.9	+3.9
Ł			4.4	4.4
+5			4.1	4.7
+10			3.2	5.6
	42+50			
−15			4.0	4.8
Ł−10			6.7	2.1
Ł			5.7	3.1
+2			9.6	−0.8
+9			11.4	−2.6
+40			13.8	−5.0
Ł			14.3	−5.5
⅄			15.3	−6.5
+15			15.2	−6.4
	43+00			
−15′			15.4	−6.6
⅄			15.4	−6.6
Ł			15.6	−6.8
+25			13.5	−4.7
Ł			11.6	−2.8
+10			10.8	−2.0
+20			6.1	+2.7
T.P.	5.27	1.17	13.87	−4.10
	44+00			
−20			4.0	−2.8
Ł			5.2	−4.0

+15		6.7	-5.5
L		7.0	-5.8
N		7.8	-6.6
+20		7.9	-6.7
	45+00		
-20		8.0	-6.8
N		8.0	-6.8
L		7.3	-6.1
E		6.3	-5.1
+20		5.1	-3.9
	46+00		
-20		7.3	-6.0
E		7.3	-6.1
L		7.6	-6.4
N		8.0	-6.8
+20		8.1	-6.9
	47+00		
-20		8.2	-7.0
N		8.2	-7.0
L		7.9	-6.7
E		7.6	-6.4
+20		7.4	-6.2
	48+00		
-20		7.5	-6.3
E		7.8	-6.6
L		8.1	-6.9

N		8.3	-7.1
+20		8.3	-7.1
	48+59.21 = E.C.		
-20		8.3	-7.1
N		8.3	-7.1
L		8.1	-6.9
E		7.6	-6.4
+20		7.5	-6.3
	49+00		
-20		7.7	-6.5
E		8.0	-6.8
L		8.1	-6.9
N		8.2	-7.0
+200		8.3	-7.1
	50+00		
-20		8.3	-7.1
N		8.2	-7.0
L		8.2	-7.0
E		7.9	-6.7
+20		7.7	-6.5
	51+00		
-20		7.7	-6.5
E		7.8	-6.6
L		8.3	-7.1
N		8.3	-7.1
+40		8.4	-7.2

	52+00				
-20			8.4	-7.2	
N			8.3	-7.1	
₵			8.3	-7.1	
E			7.9	-6.7	
+20'			7.7	-6.5	
T.P.	4.71	-0.26	6.14	-4.97	
	53+00				
-20			6.4	-6.7	
E			6.4	-6.7	
₵			6.5	-6.8	
N			6.8	-7.1	
+20			7.0	-7.3	
	54+00				
-20			7.1	-7.4	
W			7.1	-7.4	
₵			6.9	-7.2	
E			6.7	-7.0	
+20			6.5	-6.8	
	55+00				
-20			7.0	-7.3	
W			7.0	-7.3	
₵			6.7	-7.0	
E			6.7	-7.0	
+20			6.7	-7.0	
	56+00				

-20'			6.4	-6.7	
E			6.5	-6.8	
₵			6.7	-7.0	
N			7.0	-7.3	
+20			7.1	-7.4	
	57+00				
-20'			7.0	-7.3	
N			6.8	-7.1	
₵			6.6	-6.9	
E			6.5	-6.8	
+20			6.4	-6.7	
	58+00				
-20			6.3	-6.6	
E			6.3	-6.6	
₵			6.4	-6.7	
N			6.5	-6.8	
+20			6.7	-7.0	
	59+00				
-20			6.8	-7.1	
N			6.6	-6.9	
₵			6.4	-6.7	
E			6.3	-6.6	
+20			6.4	-6.7	
	59+65.84 = B.C. RA				
-20			6.1	-6.4	
E			6.1	-6.4	

-026

1.00

Sta.	+	HI	-	Elev.
₵			6.3	-6.7
N			6.6	-6.9
+20'			6.7	-7.0
T.P	3.41	0.41	7.74	-3.00
T.P	3.92	1.00 ✓	3.33	-2.92
60+00				
-20'			7.7	-6.7
N			7.7	-6.7
₵			7.5	-6.5
E			7.3	-6.3
+20'			7.3	-6.3
61+00				
-20'			6.5	-5.5
E			6.8	-5.8
₵			7.5	-6.5
N			7.8	-6.8
+20'			7.9	-6.9
62+00				
-20'			7.6	-6.6
W			7.5	-6.5
₵			7.3	-6.3
E			7.0	-6.0
+20'			6.9	-5.9
63+00				
-20'			6.9	-5.9
E			7.0	-6.0

on Lath on Beach 150 Lt ₵

on 2"x2" Stake = M.H. Tide Line

Sta.	+	HI	-	Elev.
₵			7.2	-6.2
N			7.5	-6.5
+20'			7.7	-6.7
64+00				
-20'			7.6	-6.6
N			7.5	-6.5
₵			7.2	-6.2
E			6.7	-5.7
+20'			6.5	-5.5
65+00				
-20			7.5	-6.5
N			7.4	-6.4
₵			7.1	-6.1
E			6.7	-5.7
+20			6.5	-5.5
66+00				
-20			6.4	-5.4
E			6.6	-5.6
₵			7.1	-6.1
N			7.4	-6.4
+20			7.5	-6.5
67+00				
-20'			7.4	-6.4
N			7.3	-6.3
₵			6.9	-5.9
E			5.8	-4.8

Sta				
+20 .			4.9	-3.9
	68+00			
-20'			4.3	-3.3
E.			5.5	-4.5
¢			6.8	-5.8
M			7.2	-6.2
+20			7.4	-6.4
	69+00			
-20'			7.3	-6.3
M			7.2	-6.2
¢			6.7	-5.7
E.			5.1	-4.1
+12			4.3	-3.3
+16			+1.9	+2.9
+20			+2.3	+3.3
	69+50			
-20			+2.4	+3.4
-11			+2.4	+3.4
-7			4.2	-3.2
E.			4.7	-3.7
¢			6.6	-5.6
M +20			6.9	-5.9
			7.3	-6.3
	70+00			
-20			7.0	-6.0
M			6.6	-5.6
¢				

Sta				
+40			4.2	-3.2
+45			+2.9	+3.9
E.			+2.7	+3.7
+20			+2.7	+3.7
	70+50			
-20'			+2.6	+3.6
E.			+2.6	+3.6
+20			+2.6	+3.6
+25			3.8	-2.8
¢			5.4	-4.4
M			6.4	-5.4
+20			6.6	-5.6
T.P.	8.40	5.48	3.92	-2.92
	71+00			
-20			10.7	-5.2
M			10.6	-5.1
¢			8.6	-3.1
+5			2.6	+2.9
E.			1.4	+3.1
+20			+1.0	+6.5
	71+10			
-20			+1.0	+6.5
E.			1.3	+4.2
¢			2.6	+2.9
+5			8.8	-3.3
M			10.3	-4.8

+20			10.5	-5.0	
	71+50				
-20			10.3	-4.8	
N			10.2	-4.7	
+10			7.7	-2.2	
+15			2.9	+2.6	
L			2.6	+2.9	
E			1.0	+4.5	
+20			+1.2	+6.7	
	72+00				
-20'			+1.0	+6.5	
E			1.2	4.3	
L			3.2	2.3	
+10			3.5	2.0	
+15			8.0	-2.5	
N			9.6	-4.1	
+20			9.7	-4.2	
	72+50				
-20			9.0	-3.5	
N			9.0	-3.5	
+40			7.0	-1.5	
+45			3.8	+1.7	
L			3.7	+1.8	
E			1.6	+3.9	
+20			0.2	+5.3	
	72+75				

-20			1.7	+3.8	
E			2.1	3.4	
L			4.0	1.5	
+5			4.0	1.5	
+10			6.7	-1.2	
N			8.1	-2.6	
+20			8.1	-2.6	
	73+00				
-20'			8.2	-2.7	
N			8.3	-2.8	
+30			7.0	-1.5	
L			5.6	-0.1	
+5			5.2	+0.3	
+10			3.4	+2.1	
E			2.1	+3.4	
+25			2.8	+2.7	
+30			7.3	-1.8	
	73+20				
-30			1.1	+4.4	
-10			1.9	+3.6	
-8			7.4	-1.9	
E			7.4	-1.9	
+10			7.4	-1.9	
+20			5.6	-0.1	
L			7.8	-2.3	
N			7.8	-2.3	

+20 .... 8.3

West end Arch Culvert
Canyons Large Water Shed
72+80
Slide
Shore
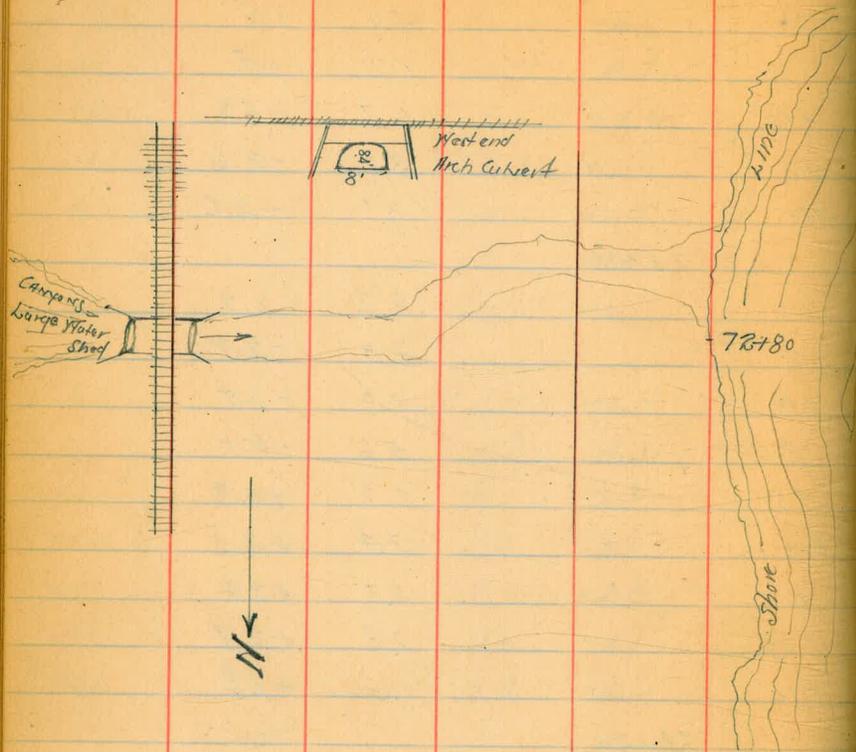
73+35'

-20	8.8	-3.3
N	8.4	-2.9
+35	7.6	-2.1
L	6.3	-0.8
+15	7.6	-2.1
+25	3.4	+2.1
E	2.1	+3.4

E+20	0.5	+5.0
73+50		
-20	0.6	+4.9
E	2.7	+2.8
+20	3.7	+1.8
L	3.7	+1.8
+5	5.9	-0.4
+20	6.6	-1.1
+30	7.6	-2.1
N	8.7	-3.2
+20	9.0	+3.5
74+00		
-20	9.6	-4.1
N	8.4	-2.9
+13	7.9	-2.4
+15	8.5	-3.0
L	7.1	-1.6
+5	4.8	+0.7
E	3.4	+2.1
+20	2.8	+2.7
74+50		
-20	3.4	+2.1
E	4.3	+1.2
+38	5.5	0.0
+40	7.1	-1.6
L	8.0	-2.5

+13		8.4	-2.9
+15		7.9	-2.4
⅄		10.1	-4.6
+20		10.4	-4.9
75+00			
-20		11.1	-5.6
⅄		11.1	-5.6
ℓ		8.2	-2.7
+15		7.6	-2.1
+20		5.7	-0.2
E₀		4.7	+0.8
+20		3.9	+1.6
75+50			
-20		4.9	+0.6
E₀		5.7	-0.2
+20		6.3	-0.8
+25		7.6	-2.1
ℓ		9.3	-3.8
+10		10.4	-4.9
⅄		11.2	-5.7
+20		10.9	-5.4
76+00			
-20		11.5	-6.0
⅄		11.3	-5.8
ℓ		10.3	-4.8
+10		9.8	-4.3

+40				7.0	-1.5
E₀				6.0	-0.5
+20				5.5	-0.0
77+00					
-20				6.0	-0.5
E₀				8.0	-2.5
+25				9.8	-4.3
E₀				11.2	-5.7
⅄				11.4	-5.9
+20				11.5	-6.0
77+41.15 = E.C. = 78+44.0					
-20				11.1	-5.6
⅄				11.1	-5.6
ℓ on Hub.				10.81	-5.33
+30				10.3	-4.8
E₀				9.1	-3.6
+20				6.8	-1.3
T.P.	3.81		2.55 ✓	6.74	-1.26
79+00					
-20				5.1	-2.4
E₀				6.8	-4.2
ℓ				8.3	-5.7
⅄				8.6	-6.0
+20				8.7	-6.1
80+00					
-20				8.7	-6.1

Station			Value 1	Value 2
y/			8.5	−5.9
l			7.8	−5.2
E.			7.0	−4.4
+10			6.7	−4.1
+20			5.4	−2.8
81+00				
−20			6.4	−3.8
E.			7.4	−4.8
l			7.5	−4.9
y/			8.4	−5.8
+20			8.4	−5.8
82+00				
−20			8.4	−5.8
y/			8.0	−5.4
l			7.3	−4.7
E.			6.8	−4.2
+20			6.7	−4.1
83+00 − P.O.T.				
−20			5.6	−3.0
E.			5.9	−3.3
L on Hub.			6.67	−3.12
y/			7.8	−5.2
+20			8.1	−5.5
84+00				
−20			8.2	−5.6
y/			7.9	−5.3

Station			Value 1	Value 2
l			7.2	−4.6
E.			6.6	−4.0
+20			6.4	−3.8
85+00				
−20			7.5	−4.9
E.			7.6	−5.0
l			8.0	−5.4
y/			8.9	−6.3
+20			8.9	−6.3
86+00				
−20'			9.1	−6.5
y/			9.0	−6.4
l			8.7	−6.1
E.			8.4	−5.8
+20			8.4	−5.8
T.P.	4.10	0.20	6.45	−3.90
87+00				
−20			6.4	−6.2
E			6.5	−6.3
l			6.5	−6.3
y/			6.8	−6.6
+20			6.7	−6.5
88+00				
−20			6.7	−6.5
y/			6.7	−6.5
l			6.5	−6.5

0.20 · 0.20

E		6.2	-6.0
+20		6.2	-6.0
89+00			
-20		6.2	-6.0
E		6.3	-6.1
¢		6.5	-6.3
N		6.8	-6.6
+20		6.9	-6.7
90+00			
-20		6.8	-6.6
N		6.8	-6.6
¢		6.5	-6.3
E		6.3	-6.1
+20		6.2	-6.0
91+00			
-20		6.2	-6.0
E		6.3	-6.1
¢		6.5	-6.3
N		6.7	-6.5
+20		6.8	-6.6
92+00			
-20		6.8	-6.6
N		6.8	-6.6
¢		6.5	-6.3
E		6.3	-6.1
+20		6.2	-6.0

95+00				
-20			6.4	-6.2
E			6.6	-6.4
¢			6.8	-6.6
N			6.9	-6.7
T.P.	5.22	0.58	4.84	-4.64
98+00				
-20			7.1	-6.5
W			7.0	-6.4
¢			6.8	-6.2
E			6.8	-6.2
+20			6.5	-5.9
101+00				
-20			6.6	-6.0
E			6.7	-6.1
¢			7.0	-6.4
W			7.1	-6.5
+20			7.3	-6.7

culvert 2.8' dia

99+50 = Approx. Sta.

	0.58						2.10			
-20	104+00		6.9	-6.3		-20			7.9	-5.8
N			6.9	-6.3		N			7.7	-5.6
%			6.7	-6.1		%			7.5	-5.4
E			6.0	-5.4		+30			7.0	-4.9
+20			4.9	-4.3		E			5.6	-3.5
T.P	5.04	2.10	3.52	-2.94		+20			4.6	-2.5
-20	104+00		7.0	-4.9			109+00			
E			7.6	-5.5		-20			4.5	-2.4
L			8.0	-5.9		E			4.9	-2.8
N			8.3	-6.2		+10			5.7	-3.6
+20			8.5	-6.4		L			7.3	-5.2
	106+00					N			7.8	-5.7
-20			8.5	-6.4		+20			8.1	-6.0
N			8.5	-6.4		T.P	1.33	3.15	0.28	1.82	on Peg 60' South Kennedys ∞ old RR. Bdg.
L			8.2	-6.1			110+00			
+10			7.7	-5.6		-20			9.7	-6.5
E			6.7	-4.6		N			9.5	-6.3
+20			5.9	-3.8		L			8.2	-5.0
	107+00					+30			7.0	-3.8
-20			5.6	-3.5		E			5.5	-2.3
-10			6.6	-4.5		+20			5.7	-2.5
E			6.9	-4.8			111+00			
L			7.7	-5.6		-20			5.0	-1.8
N			8.0	-5.9		E			5.2	-2.0
+20			8.1	-6.0		+15			4.6	-1.4
	108+00					+20			6.6	-3.4

Left			
+30		7.5	-4.3
L		8.4	-5.2
M		9.2	-6.0
+20		9.3	-6.1
111+64.34 = P.C.			
-20		9.3	-6.1
M		9.3	-6.1
L on Hub		8.19	-5.04
+25		6.4	-3.2
+30		5.4	-2.2
L		5.1	-1.9
+20		4.5	-1.3
112+00			
E-20		4.9	-1.7
E		5.2	-2.0
+22		5.5	-2.3
+25		6.6	-3.4
L		8.0	-4.8
M		9.6	-6.4
+20		9.6	-6.4
112+50			
-20'		8.5	-5.2
M		8.5	-5.2
L		8.0	-4.8
+20		6.6	-3.4
+30		5.8	-2.6

Right			
E		6.0	-2.8
+20		5.5	-2.3
113+00			
-20		5.7	-2.5
E		6.0	-2.8
+35		5.9	-2.7
L		8.3	-5.1
+15		8.8	-5.6
+18		8.1	-4.9
M		8.2	-5.0
+20		8.6	-5.4
113+50			
-20'		7.8	-4.6
M		7.2	-4.0
+10		7.0	-3.8
+12		5.9	-2.7
+30		6.0	-2.8
+35		6.9	-3.7
+40		8.7	-5.5
L		8.7	-5.5
+5		6.4	-3.2
E		5.9	-2.7
+20		5.5	-2.3
114+00			
-20'		5.5	-2.3
E		5.8	-2.6

+28		5.7	-2.5
+35		8.4	-5.2
+45		9.2	-6.0
¢		6.6	-3.4
+25		5.8	-2.6
¥/		5.8	-2.6
+20		7.0	-3.8
	114+50		
-20		6.0	-2.8
¥/		6.1	-2.9
+30		6.0	-2.9
+35		9.0	-5.8
¢		8.8	-5.6
+5		6.0	-2.8
¢		5.6	-2.4
+20		5.4	-2.2
	115+00		
-20		5.8	-2.6
¢		5.8	-2.6
+35		5.9	-2.7
+40		9.3	-6.1
¢		9.3	-6.1
+7		9.3	-6.1
+10		6.2	-3.0
¥/		5.7	-2.5
+20		7.0	-3.8

	115+25		
-20		5.7	-2.5
¥/		5.7	-2.5
+30		6.0	-2.8
+35		8.1	-4.9
+40		5.9	-2.7
¢		5.5	-2.3
+20		5.8	-2.6
+25		9.0	-5.8
+35		8.7	-5.5
+40		6.1	-2.9
¢		5.4	-2.2
+20		5.7	-2.5
	115+50		
-20		5.5	-2.3
¢		6.5	-3.3
+1		7.9	-4.7
+15		9.3	-6.1
+20		5.4	-2.2
¢		5.4	-2.2
+5		5.7	-2.5
+10		8.3	-5.1
+15		8.3	-5.1
+20		5.7	-2.5
¥/		5.7	-2.5
+20		6.0	-2.8

3.15

116+00

−20			5.9	−2.7
W			5.9	−2.7
∠			5.5	−2.3
+43			5.9	−2.7
+46			7.5	−4.2
E			5.8	−2.6
+20			5.3	−2.1
+75			5.0	−1.8
+80			8.2	−5.0
+90			8.2	−5.0
+95			5.0	−1.8

T.P.   8.40   5.78✓   5.77   −2.62   on P.I. Hub

Chk. on ∠ Hub 121+68.⁴⁴ = F.C. Book 1379-22   7.19   1.41
                                                          1.43 = Hub.
                                                          0.02 = Error.

Cont. in Book 1379-21

Atlantic Ave Cross Section (Cont from Book 1379 Page 62
289+0 to 315+56.15   100 Wide

30
S18.07
J.C. Bird
Morrison
Osborn

BM	747	13.17		5.70	& Mon Bear & Atlantic	E		8.5	4 7

13.17

BM	747	13.17	5.70	& Mon Bear & Atlantic
	√ 289+0		13.2	
−20		11.6	1.6	
H		11.4	1.8	
½		10.8	2.4	
+25		10.6	2.6	
E		9.4	3.8	
+10		9.5	3.7	
+20		7.8	5.4	
	√ 289+50			
−20		9.4		3.8
E		9.8		34
½		10.3		29
H		11.2		20
+20		11.4		18
	√ 289+75			
−20		11.4		18
H		11.0		22
+25		10.5		27
+30		8.6		46
½		9.1		41
E		9.2		40
+20		9.0		42
	√ 290+0			
−20		8.2		50

Plotted 4/5-30

		13.17	
E		8.5	4 7
½		8.4	4 8
+20		8.4	4 8
+25		10.0	3 2
H		10.7	2 5
+20		11.1	2 1
	√ 290+50		
−20		11.0	2 2
H		10.6	2 6
+20		9.8	3 4
+28		7.9	5 3
½		7.6	5 6
E		6.6	6 6
+20		5.9	7 3
	√ 291+0		
−20		4.1	9.1
E		4.7	8 5
½		6.7	6 5 X
+25		7.4	5 8
H		10.4	2 8
+20		11.0	2 2
	√ 291+50		
−20		8.1	5 1
H		6.6	6 6
½		4.3	8.9

E		3.8		9 4
+80		3.6		9 6
↓ 292+0				
-20		3.6		9 6
E		3.7		9 5
½		4.1		9 1
H		4.4		8 8
+20		2.1		11.1
↓ 292+50				
-20		4.1		9 1
H		4.0		9 2
½		3.5		9 7
E		3.6		9 6
+20		3.6		9 6
↓ 293+0				
-20		3.7		9 5
E		3.9		9 3
½		3.7		9 5
H		3.8		9 4
+80		3.9		9 3
↓ 293+50				
-20		4.4		8 9
H		4.2		9 0
½		4.0		9 2
E		3.8		9 4
+20		3.9		9 3

↓ 294+0					
-20			3.8		9 4
E			3.9		9 3
½			4.2		9 0
H			4.2		9 0
+20			4.3		8 9
↓ 294+50					
-20			4.2		9 0
H			4.0		9 2
½			4.2		9 0
E			4.0		9 2
+20			4.0		9 2
↓ 295+0					
-20			3.9		9 3
E			3.9		9 3
½			4.2		9 0
H			4.2		9 0
+20			4.2		9 0 Top of MH
TP	4.67	13.00	4.34	8.93	Wall of 297+75
↓ 295+50					
-20			4.3		8 7
H			4.1		8 9
½			4.1		8 9
E			4.0		9 0
+20			3.7		9.3
↓ 296+0					

-20		4.0	90
E		3.9	91
ʌ		4.4	86
N		4.2	88
+20		4.3	87
↓ 296+50			
-20		4.4	86
N		4.5	85
ʌ		4.2	88
E		4.1	89
+20		4.0	90
↓ 297+0			
-20		4.2	88
E		4.3	87
ʌ		4.1	89
N		4.5	85
+20		4.4	86
↓ 297+50			
-20		4.5	85
N		4.3	87
ʌ		4.4	86
E		4.7	83
+20		4.1	89
↓ 298+0			
-20		4.3	87
E		4.7	83

ʌ		4.5	85
N		4.7	83
+20		4.7	83
↓ 298+50			
-20		4.8	82
N		4.7	83
ʌ		4.7	83
E		4.5	85
+20		4.5	85
↓ 299+0			
-20		4.5	85
E		4.4	86
ʌ		4.3	87
N		4.5	85
+20		4.7	83
↓ 299+44.23 = P.C.			
-20		4.8	82
N		4.6	84
ʌ		4.8	82
E		4.4	86
+20		4.4	86
↓ 300+0			
-20		4.6	84
E		4.8	82
ʌ		4.8	82
N		4.7	83

Left page

	13.00		
+20		5.0	80
√301+0			
-20		4.8	82
H		4.8	82
L		4.7	83
F		4.3	87
+20		4.6	84
√302+0			
-20		4.5	85
F		4.5	85
L		5.1	79
H		5.0	80
+20		5.0	80
√303+0			
-20		4.6	84
H		4.4	86
L		4.5	85
F		4.8	82
+20		4.8	82
√304+0			
-20		4.5	85
F		4.5	85
L		4.6	84
H		4.5	85
+20		4.5	85
√305+0			

Right page

	13.00			
-20			5.0	80
H			5.0	80
L			4.6	84
F			4.8	82
+20			4.6	84
√306+0				
-20			4.5	85
F			5.0	80
L			4.6	84
H			4.8	82
+20			5.2	78
TP	4.60	√128.8	4.72	8.28
√307+0				
-20			5.3	86
H			5.0	89
L			4.6	83
F			4.7	82
+20			4.6	83
√308+0				
-20			4.4	85
F			5.0	79
L			5.2	77
H			5.3	76
+20			5.3	76
√309+0				
-20			5.4	75

H			4.7	82
½			5.2	77
E			4.8	81
+20			4.7	82
	↓ 310+0			
-20			4.8	81
E			5.1	78
½			5.1	78
H			5.5	74
+20			5.4	75
	↓ 311+0			
-20			5.2	77
H			5.2	77
½			4.6	83
E			4.9	80
+20			4.7	82
	↓ 312+0			
-20			4.5	84
E			4.5	84
½			4.3	86
H			4.6	83
+20			4.9	80
	↓ 313+0			
-20			4.5	84
H			4.0	89
½			3.7	9.2

E			3.9	90
+20			4.1	88
	↓ 314+0			
-20			2.7	102
E			2.6	103
½			3.1	98
H			3.2	97
+20			3.3	96
	↓ 315+0			
-20			3.0	99
H			2.9	100
½			2.6	103
E			2.1	108
+20			2.0	109
	↓ 315+56.25 P.of = ½ Quince			
-20			1.7	112
E			2.0	109
½			2.5	104
H			2.6	103
+20			2.6	10.3
TP			3.53	1035	on 2 tub 315+56.25 P.of

316+0   See 1379 Page 67

80' Wide
11' Cb5
8' Qt

				5 St Top Hd
BM	8.18	10.29 ✓	711	A + Atlantic
	W.L. California			
N Top of West Rail		1.60	8.69	
8.4' E of W.L.				
N		2.1	8.2	
Cb		22	8.1	
'14		2.1	8.2	
£		18	8.5	
+10 = Top of 1st Rail		1.95	8.34	
'14		2.1	7.9	
cb		2.5	7.8	
S		2.6	7.7	
Top West Rail		2.16	8.13	
50' W of W.L Calif				
S		3.5	6.8	
cb		3.7	6.6	
+1		3.9	6.4	
+2		57	4.6	
+4		5.7	4.6	
+6		3.8	6.5	
'14		3.5	6.8	
£		3.5	6.8	
'14		3.3	7.0	
cb		3.1	7.2	
N		2.6	7.7	
100' W				

Belt

2 0 0

Atlantic

2 1 0

80

12″Ø   0+50 Fire Hyd

Elev outlet
4.80

9.5 Low Switch Stand

5.1   x150x   West Rail of   Santa Fe   0+0   84   W.L. Calif.
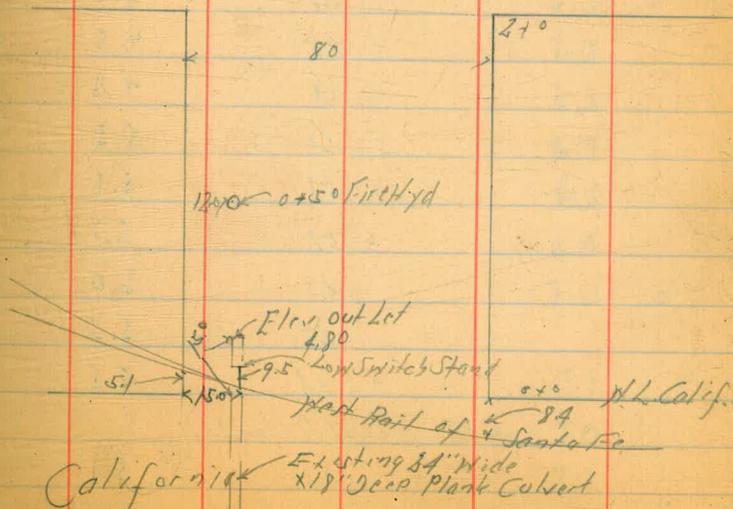
California   Existing 84" Wide
X18" Deep Plank Culvert

N		5.9	6.4
Cb		5.6	6.7
'/4		4.5	5.8
&		4.4	5.9
'/4		4.6	5.7
+7		4.7	5.6
+8		5.8	4.5
+10		5.8	4.5
+11		4.0	6.3
Cb		3.7	6.6
S		6.3	5.0

150'N

S		5.2	5.1
Cb		4.4	5.9
+4		4.7	5.6
+5		5.8	4.5
+6		5.8	4.5
+7		5.0	5.3
'/4		5.2	5.1
&		5.2	5.1
'/4		4.3	6.0
Cb		4.8	5.5
N		4.8	5.5

200'N = E.b. of Atlantic

N		5.2	5.1
Cb		5.0	5.3

'/4		5.2	5.1
&		5.3	5.0
'/4		5.4	4.9
Cb		5.9	4.4
S		5.6	4.7

N.L. Atlantic

S		4.0	6.3
Cb		4.6	5.7
'/4		4.3	6.0
&		4.8	5.5
'/4		4.4	5.9
Cb		4.6	5.7
N		4.6	5.7

50'N of N.L. Atlantic

N		3.8	6.5	✓
Cb		3.8	6.5	
'/4		3.8	6.5	
&		3.6	6.7	
'/4		3.8	6.5	
Cb		3.9	6.4	
S		6.1	7.2	✓

100'N

S		3.2	7.1	✓
Cb		3.3	7.0	
'/4		3.0	7.3	
&		3.2	7.1	

	1089			
1/4		3.5	6.8	
Cb		3.5	6.8	
N		3.6	6.7	✓
	150'N			
N		3.2	7.1	✓
Cb		3.1	6.9	
1/4		3.1	7.2	
½		3.1	7.2	
1/4		3.0	7.3	
Cb		3.3	7.0	
S		2.8	7.5	✓
	200'N = East Line of Belt			
S		2.9	7.4	✓
Cb		2.8	7.5	
1/4		2.6	7.7	
½		2.3	8.0	
1/4		2.7	7.6	
Cb		3.0	7.3	
N		3.0	7.3	✓

Ash St. Cross Section
California to Belt

80'Wide
19'Cb5
13'Gtr

BM	432	10.97 ✓		6.65	SE Top Hyd Ash & Atlantic	Belt
			Nr. California			
S Cb Top			1.00	9.97		
Gutter on Paving			2.29	8.68		
1/4 " "			0.93	10.04		
L " "			0.69	10.28		
1/4 " "			0.97	10.00		
Gutter " "			1.20	9.27		
N Cb Top			0.43	10.54		
	50'N					
N Cb			2.12	8.85		
Gutter on Paving			2.74	8.23		
1/4 " "			2.47	8.50		
L			2.31	8.66		
1/4 " "			2.48	8.49		
Gutter " "			3.01	7.96		
S Cb			2.53	8.44		
	100'N					
S Cb			4.09	6.88		
Gutter on Paving			4.57	6.40		
1/4 " "			4.03	6.94		
L			3.86	7.11		
1/4 " "			3.97	7.00		
Gutter " "			4.30	6.67		
N Cb			3.74	7.23		

Ash St   10.97
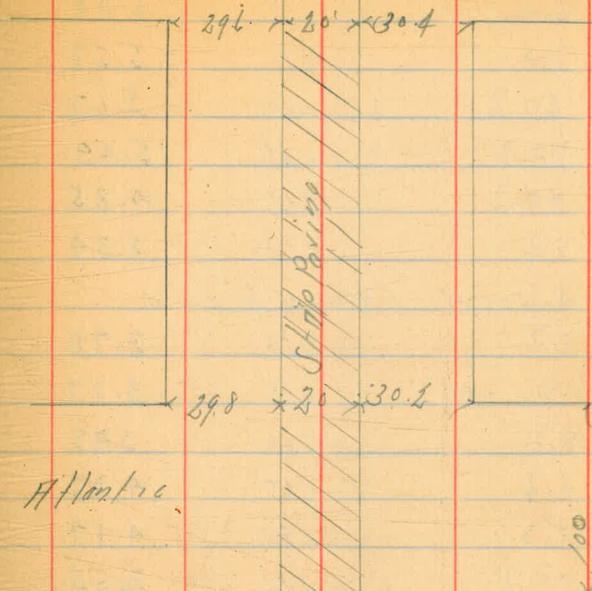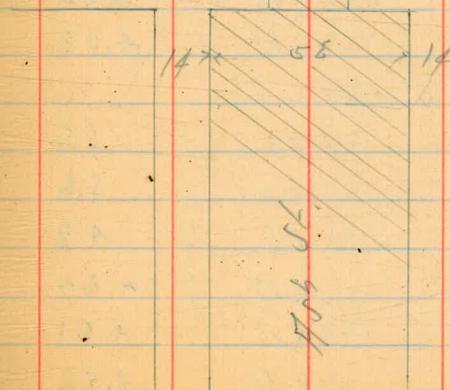
150' N				
N cb		5.34	5.63	
Gutter on Paving		5.91	5.08	
'' '' ''		5.40	5.57	
'' '' ''		5.30	5.67	
'' '' ''		5.48	5.49	
Gutter '' ''		6.12	4.85	
S cb		5.63	5.34	
200' N = E Line of Atlantic				
S cb		7.35	3.72	
Gutter on Paving		7.70	3.27	
'' '' ''		7.00	3.97	
'' '' ''		6.60	4.37	
'' '' ''		6.80	4.17	
Gutter '' ''		7.42	3.55	
N cb		6.94	4.03	
N Line of Atlantic				
N		5.5	5.5	
Cb		5.4	5.6	
''		6.2	4.8	
+ 3 = Edge Paving		6.37	4.60	
'' '' ''		6.36	4.61	
+ 10 = Edge ''		6.45	4.52	
''		6.5	4.5	
Cb		5.9	5.1	
S		5.9	5.1	

50' N of N.L. Atlantic				
S		5.6	5.4	
Cb		5.5	6.5	
''		6.2	4.8	
+ 3 = Edge Paving		5.94	5.03	
'' ''		5.88	5.09	
+ 10 = Edge ''		5.88	5.09	
''		5.8	5.2	
Cb		5.4	5.6	
N		5.5	5.5	
100' N				
N		5.6	5.8	
Cb		5.6	5.8	
''		5.3	5.7	
+ 3 = Edge Paving		5.20	5.77	
'' ''		5.13	5.84	
+ 10 = Edge ''		5.16	5.81	
''		5.5	5.5	
Cb		5.3	5.7	
S		4.9	6.1	
150' N				
S		4.5	6.5	
Cb		4.3	6.7	
''		4.7	6.3	
+ 3 = Edge Paving		4.45	6.52	
'' ''		4.40	6.57	

Ash St   10.97

+10 = Edge Paving		4.45	6.52	
1/4		4.7	6.3	
cb		4.6	6.4	
N		4.5	6.5	
	200 N = E.L. of Belt			
N		4.6	6.4	
cb		4.6	6.4	
1/4		4.3	6.7	
+3 = Edge Paving		4.08	6.89	
L	o7 "	4.00	6.97	
+10 = Edge "		4.10	6.97	
1/4		4.4	6.6	
cb		4.2	6.8	
S		4.0	7.0	

Beech St. Cross Section
California to Bett.

80' wide
14" Cb
13' Gts

B.M.	7.92	15.39		7.47	S.E. Top Hyd.
					Beech & Atlantic
		N. L. California			
S Cb			3.80	11.59	
Gutter on Paving			5.16	10.23	
'¼ " "			3.43	11.96	
₤ " "			3.15	12.24	
'¼ " "			3.00	12.39	
Gutter " "			4.30	11.09	
N Cb			2.90	12.49	
		50 Yt of N.L. Calif.			
N Cb			4.82	10.57	
Gutter on Paving			5.62	9.77	
'¼ " "			5.15	10.24	
₤ " "			5.21	10.18	
'¼ " "			5.61	9.78	
Gutter " "			6.25	9.14	
S Cb			5.48	9.91	
		100' Yt			
S Cb			7.26	8.13	
Gutter on Paving			7.97	7.42	
'¼ " "			7.25	8.14	
₤ "	6	7.97	6	7.42	
'¼ "			6.98	8.41	
Gutter " "			7.42	7.97	
N Cb			6.72	8.67	

Bett

80

St

6.00

Atlantic

1.00

California

Paving

Beech

Walk

Conc. Walk

4.5

4.5

5.0

4.5

5.5

Left page
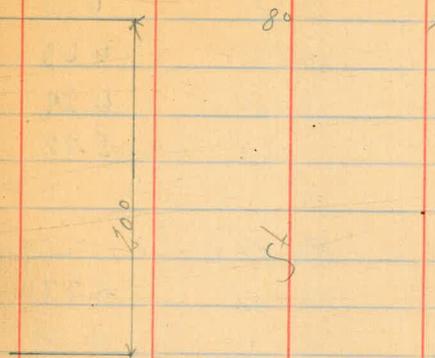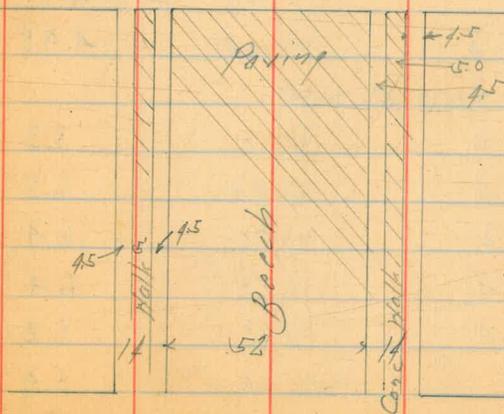
150'H				
N Cb			8.55	6.84
Gutter on Paving			9.21	6.18
'/4 " "			8.88	6.51
2 " "			8.76	6.63
'/4 " "			9.00	6.39
Gutter " "			9.67	5.72
S Cb in Drive Way				
200' N = E.L. Atlantic : End Paving				
S Cb			10.62	4.77
Gutter on Paving			11.35	4.04
'/4 " "			10.71	4.68
2 " "			10.56	4.83
'/4 " "			10.56	4.83
Gutter " "			11.18	4.21
N Cb			10.41	4.98
# L. Atlantic				
N			10.1	5.3
Cb			8.9	6.5
'/4			9.0	6.4
2			9.0	6.4
'/4			9.2	6.2
Cb			9.5	5.9
S			9.9	5.5
50' W of # L Atlantic				
S			9.3	6.1

Right page

Cb			9.5	5.9
'/4			9.2	6.2
2			9.2	6.2
'/4			9.3	6.1
Cb			9.4	6.0
N			9.6	5.8
100'N				
N			9.2	6.2
Cb			9.2	6.2
'/4			9.1	6.3
2			9.1	6.3
'/4			9.1	6.3
Cb			8.9	6.5
S			8.6	6.8
150'N				
S			9.0	6.4
Cb			9.0	6.4
'/4			8.8	6.6
2			8.9	6.5
'/4			8.9	6.5
Cb			9.1	6.3
N			9.2	6.2
200'N = E.L. BcH				
N			9.2	6.2
Cb			8.7	6.7
'/4			9.0	6.4

Beech St.	15.39				
J		9.0	6.4		
D '14		8.9	6.5		
Cb		9.0	6.4		
S		9.2	6.2		

BM	11.55	19.28		7.73	S E Top H₂O Cedar & Atlantic
		E.L. Santa Fe Right of Way			
S Cb			2.18	17.10	
Gutter on Paving			3.41	15.87	
¼ " "			2.18	17.10	
₵ " "			2.10	17.18	
¼ " "			2.08	17.20	
Gutter " "			3.70	15.58	
N Cb			2.02	17.26	
	22.1 N of E.L. on N				
	2.03 N of E.L. on S = End Paving Cb & Walk				
N			3.3	16.0	
Cb & Paving			2.96	16.32	
¼ on "			2.96	16.32	
₵ " "			2.96	16.32	
¼ " "			2.99	16.29	
Cb & Paving			3.07	16.21	
S			3.3	16.0	
	50' N of E.L.				
S Top Rail			3.34	15.94	
S			3.8	15.5	
Cb			3.8	15.5	
¼			3.3	16.0	
₵ Top Rail & Dirt			3.23	16.05	
₵ ¼ " "			3.11	16.17	
Cb			3.6	15.7	

Atlantic

Cedar St.

California St.

N		3.6	15.7
N Top Rail		3.11	16.17
64' N			
N		4.6	14.7
Cb		4.7	14.6
'/4		3.8	15.5
½		3.7	15.6
'/4		3.6	15.7
Cb		4.3	15.0
S		4.0	15.3
65 N			
S		4.0	15.3
+7		4.0	15.3
Cb = Flow Line Drain		6.10	13.18
+5		4.1	15.2
'/4		3.6	15.7
½		3.7	15.6
'/4		3.9	15.4
+4		4.1	15.2
Cb = Flow Line Drain		6.08	13.20
+5		4.3	15.0
N		4.4	14.9
75' N of EL			
N		4.9	14.4
Cb		6.0	13.3
+5		6.3	13.0

'/4			5.3	14.0
½			4.6	14.7
'/4			4.4	14.9
+8			4.5	14.8
Cb			6.0	13.3
+8			4.3	15.0
S			4.3	15.0
100' N of EL = H.L. Cotf.				
S			6.4	12.9
Cb			5.7	13.6
'/4			5.9	13.4
½			6.1	13.2
'/4			5.6	13.7
Cb			5.7	13.6
N			6.1	13.2
TP	5.15	12.88 ✓	11.55	7.73
50 N of H.L. Cotf.					6.0'N - Concrete Walk 0.9' S of H.L.
N			1.2	11.7	1.69
Cb			0.9	12.0	86' N - Con. Walk 1.5' S of H.L.
'/4			1.4	11.5	2.56
½			1.8	11.1	
'/4			1.8	11.1	
Cb			1.3	11.6	
S			1.0	11.9	
90 N					
S			3.1	9.8	

Cb	4.0	8.9	
'/4	4.0	8.9	91'W-Pole 11'S of N.L
£	3.2	9.7	
'/4	3.1	9.8	
Cb	2.7	10.2	
N	2.8	10.1	

100'N

N	4.1	8.8	
Cb	4.5	8.4	
'/4	4.6	8.3	
£	4.5	8.4	123'N = Bottom Step 4.7 S of N.L
'/4	4.3	8.6	
Cb	4.5	8.4	5.47
S	3.6	9.3	

125'N

S	4.5	8.4	128'N-Board Walk 0.5 S of S.L
Cb	5.3	7.6	
'/4	5.1	7.3	4.27
£	5.7	7.2	
'/4	6.3	6.6	137'W-£ Garage Dirt Fl. 0.7 S.L
Cb	6.2	6.7	
N	5.9	7.0	4.70

150'N

N	6.4	6.5	
Cb	6.7	6.2	
'/4	6.5	6.4	

£	6.7	6.2	
'/4	6.4	6.5	174'W = Pole
Cb	6.1	6.8	8'N of S.L
S	5.3	7.6	167'W=Bottom Step 0.7 S.L 5.50
S on Board Walk	4.65	8.23	

175'N

S	6.5	6.4	
Cb	6.3	6.6	
'/4	6.8	6.1	192'W=Pole 13'S of N.L
£	7.0	5.9	
'/4	6.8	6.1	
Cb	6.8	6.1	
N	6.6	6.3	

200'N = E.L. Atlantic

N	7.3	5.6	
Cb	7.1	5.8	
'/4	7.3	5.6	
£	7.0	5.9	
'/4	7.0	5.9	
Cb	7.0	5.9	
S	7.1	5.8	

Elm St Cross Section
California St to Atlantic

80' Wide
14' Cbs
13' Gts

BM	13.09	19.37 ✓		6.28	S.E. Top Hyd Elm & Atlantic

E.L. Santa Fe Right of Way

S		0.7	18.7
cb		0.7	18.7
'14		0.6	18.8
₵		1.1	18.3
'14		1.6	17.8
cb		1.9	17.5
N		2.3	17.1

8' N of E.L. Santa Fe R of W

N		5.0	14.4
cb		2.7	16.7
'14		2.3	17.1
₵		1.5	17.9
'14		1.5	17.9
cb		0.9	18.5
S		1.2	18.2

16' N

S		2.8	16.6
cb		2.7	16.7
'14		2.7	16.7
₵		2.6	16.8
'14		2.7	16.7
cb		2.6	16.8
N		2.6	16.8

Atlantic

253.4005
26 (Hor: West Rail
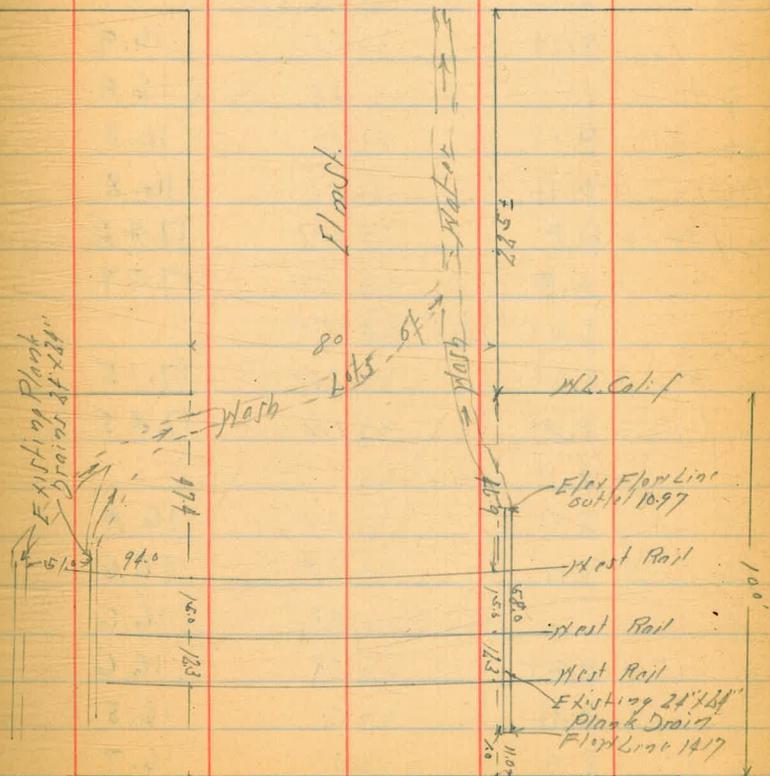
N on Top Rail			1.21	18.16
S " " "			1.60	17.77
40'N				
N on Top Rail			1.48	17.89
N Dirt			2.2	17.2
Cb			2.3	17.1
1/4			2.4	17.0
2			2.5	16.9
1/4			2.5	16.9
Cb			2.6	16.8
S			2.6	16.8
S Top Rail			1.92	17.45
			1.60	17.77

53.6 N o S : NR
53.8 N on N

S Top Rail			2.22	17.15
N			1.92	17.45
59'N				
S			3.0	16.4
Cb			2.8	16.6
1/4			2.8	16.6
2			2.8	16.6
1/4			2.6	16.8
Cb			2.7	16.7
N			2.7	16.7
70'N				

19.37

-10			6.9	12.5
N			8.4	11.0
Cb			6.7	12.7
1/4			6.9	12.7
2			7.2	12.2
1/4			7.6	17.2
Cb			6.8	12.6
S			7.6	11.8
+10			7.6	11.8
95'N				
-10			7.5	11.9
-5			8.0	11.4
S = Bottom Wash			9.8	9.6
Cb = " " "			10.0	9.4
1/4			8.9	10.5
2			8.6	10.8
1/4			8.5	10.9
Cb			8.4	11.0
N			8.2	11.2
+10			8.3	11.1
100'N = H.L. California				
-10			8.5	10.9
N			8.4	11.0
Cb			8.6	10.8
1/4			8.7	10.7
2			8.7	10.7

1/4			10.0	9.4	
+8 = Bot. Wash			10.0	9.4	
Cb			9.7	9.7	
S			8.7	10.7	
+10			8.2	11.2	
		25' N of N.L. Calif			
S			10.0	9.4	
Cb			10.1	9.3	
1/4			10.3	9.1	
L			9.8	9.6	
+2 = Bottom Wash			12.1	7.3	
1/4			10.4	9.0	
Cb			9.0	10.4	
N			9.7	9.7	
		75' N			
N			13.9	6.5	91' N=Pole
+10			12.0	7.4	12 N of S.L.
+12 Bottom Wash			13.7	5.7	
Cb			12.2	7.2	
1/4			11.3	8.1	
L			11.2	8.2	
1/4			12.1	7.3	
Cb			12.1	7.3	
S			12.9	6.5	
P	2.71	9.47 ✓	12.11	6.76	
		185' N			

S			3.7	5.8	
Cb			4.4	5.1	
1/4			2.5	7.0	
L			3.0	6.5	
1/4			3.9	5.6	
Cb			2.7	6.8	
+5 = Bottom Wash			4.4	5.4	150' N = Pole
+9			3.1	6.4	13' N of S.L.
N			3.5	6.0	
+1			5.0	4.5	
		175' N			
N			4.4	5.1	
+2			4.1	5.4	
+10 Bottom Wash			4.6	4.9	
Cb			4.0	5.5	
1/4			4.9	4.6	
L			5.2	4.3	
1/4			5.2	4.3	
Cb			5.0	4.5	
S			5.0	4.5	
		225' N = E.L. Atlantic			
S			5.6	3.9	
Cb			5.4	4.1	
1/4			5.6	3.9	
L			5.5	4.0	
1/4			5.2	4.3	

78		4.9	4.6
711 Bottom Nash		5.7	3.8
Cb		5.7	4.1
N		5.0	4.5

Date St Cross Section
Atlantic to Belt

			130' Wide
			20 Cbs
			20 Qts

				S.E. Top Hd
BM	836	9.64 ✓	6.28	
		HL Atlantic	131.84 Wide	
N			6.9	2.7
+10			4.4	5.2
Cb			5.2	4.4
1/4			5.6	4.0
1/2			4.2	5.4
1/4			5.0	4.6
Cb			5.1	4.5
S			5.1	4.5
		HL Atlantic on N		
		8408 N of HL on S		
S			4.8	4.8
Cb			4.8	4.8
1/4			4.8	4.8
1/2			4.2	5.4
1/4			5.6	4.0
+6 = S Edge Board Walk			4.38	5.26
+16 N Edge			4.60	5.04
Cb			5.2	4.4
+10			4.3	5.3
N			6.9	2.7
		25' N of HL Atlantic on N		
N			4.9	4.7
Cb			6.5	3.1
1/4			5.8	3.8

Belt   St.

Date St

120'

Atlantic   St.

Label	Note	A	B
L		4.6	5.0
1/4		4.8	4.8
Cb		5.1	4.5
S		5.1	4.5
	50' N		
S		5.0	4.6
Cb		5.4	4.2
1/4		5.2	4.4
L		4.9	4.7
1/4		5.8	3.8
+2.2 = S Edge Board Walk		4.75	4.89
+12.2 N " " "		4.75	4.89
Cb		7.0	2.6
N		7.8	1.8
	75' N		
N		5.2	4.4
cb		4.9	4.7
+9 = End Board Walk		5.0	4.54
+19 " "		4.90	4.74
1/4		4.9	4.7
L		4.9	4.7
1/4		4.8	4.8
Cb		5.1	4.5
S		4.9	4.7
	100' N		
S		4.9	4.7

Label	Note	A	B
Cb		4.7	4.9
1/4		4.3	5.3
L		4.2	5.4
1/4		4.0	5.6
Cb		4.0	5.6
N		4.0	5.6
	188.5' N = E L of Bell St		
N		4.2	5.4
Cb		4.4	5.2
1/4		4.3	5.3
L		4.3	5.3
1/4		4.3	5.3
Cb		4.1	5.5
S		4.7	4.9

Grape St. Cross Section
California to Bell   80' Wide   4-12-30
           4' Cb
           13' Gt   **53**

BM	10.88	19.67 ✓	8.79	S.E. Top Hyd Grape + Atlantic
		N L California		
S Cb		1.69	17.98	
Gutter on Paving Outlet		3.12	16.55	
¼ " "		1.66	18.01	
½ " "		1.65	18.02	
¼ " "		1.71	17.96	
Gutter " " Outlet		3.22	16.45	
N Cb		1.69	17.98	
	25' W of N L Calif			
N Cb		3.56	16.11	
Gutter on Paving		4.26	15.41	
¼ " "		3.59	16.08	
½ " "		3.42	16.25	
¼ " "		3.56	16.11	
Gutter " "		4.27	15.40	
S Cb		3.54	16.13	
	50 W			
S Cb		5.42	14.25	
Gutter on Paving		6.20	13.47	
¼ " "		5.42	14.25	
½ " "		5.27	14.40	
¼ " "		5.42	14.25	
Gutter " "		6.16	13.51	
N Cb		5.51	14.16	

75 N
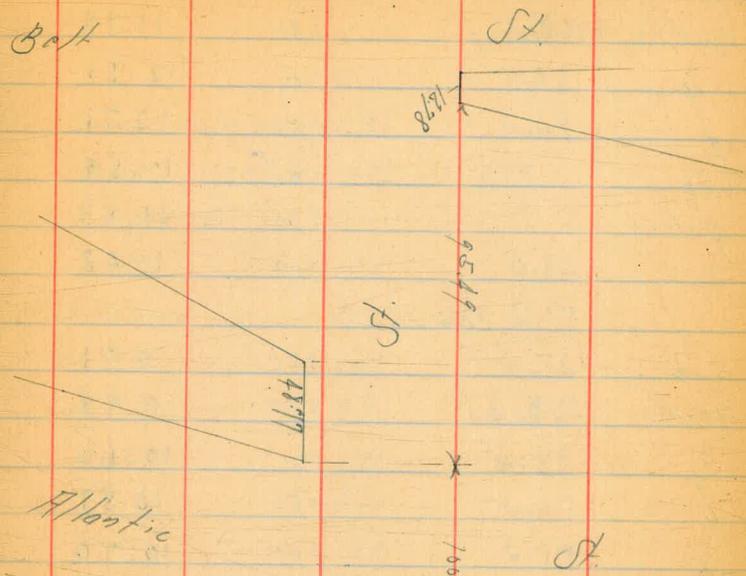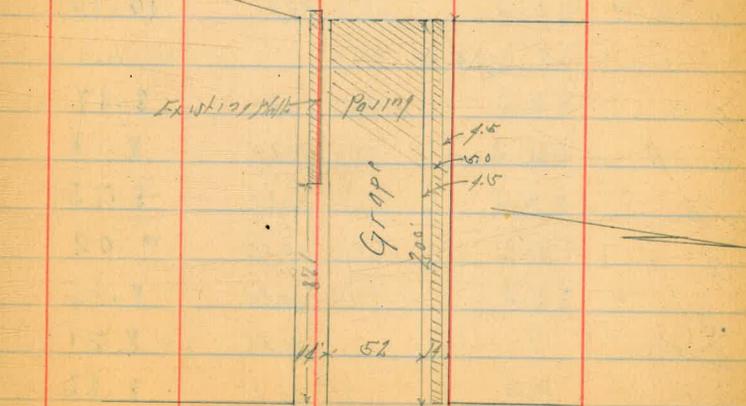
N cb	7.29	1v.38
Gutter on Paving	7.89	11.78
'/4 " "	7.16	12.51
½ " "	6.96	12.71
'/4 " "	7.08	1v.59
Gutter " "	7.84	11.83
S cb	7.19	1v.48

100 N

S cb	8.96	10.71
Gutter on Paving	9.69	9.98
'/4 " "	9.01	10.66
½ " "	8.80	10.87
'/4 " "	8.97	10.70
Gutter " "	9.64	10.03
N cb	8.97	10.70

125 N

N cb	10.80	8.87
Gutter on Paving	11.49	8.18
'/4 " "	10.92	8.75
½ " "	10.65	9.02
'/4 " "	10.88	8.85
Gutter " "	11.46	8.21
S cb	10.81	8.86

150 N

S cb	12.49	7.18

Gutter on Paving		13.03	6.64
'/4 " "		12.85	7.42
½ " "		12.15	7.52
'/4 " "		12.35	7.32
Gutter " " 12 Driveway		12.98	6.69
TP	1.99	10.78 ✓ 10.88	879

175 N

N cb	3.96	6.82
Gutter on Paving	4.61	6.17
'/4 " "	4.02	6.76
½ " "	3.83	6.95
'/4 " "	3.92	6.86
Gutter " "	4.61	6.17
S cb	3.99	6.79

200 N = Ed. of Atlantic = End of Paving Cbs x 1½/12

S cb	4.23	6.55	✓
Gutter on Paving	4.93	5.85	
'/4 " "	4.30	6.48	
½ " "	4.14	6.64	
'/4 " "	4.34	6.44	
Gutter " "	4.97	5.81	
N cb	4.40	6.38	✓

N L Atlantic

N	39	6.9
Cb	50	5.8
'/4	46	6.2

Grape St	10.78					10.78			
₺			4.5	6.3					
¼			4.7	6.1		Cb		5.1	5.7
Cb			4.9	5.9		N		4.7	6.1
S			5.7	5.1					
	48.77' W of Wh of Atlantic								
S			5.4	5.4					
Cb			5.2	5.6					
¼			4.8	6.0					
₺			4.9	5.9					
¼			4.8	6.0					
Cb			4.8	6.0					
N			4.7	6.1					
	95.49'W								
N			5.1	5.7	91.5'N. Pole				
Cb			4.9	5.9	11'N of S.L				
¼			4.8	6.0					
₺			4.7	6.1					
¼			5.5	5.3					
Cb			5.2	5.6					
S			5.7	5.1					
	108.27'W. E.L of Battory N								
S			5.8	5.0					
Cb			5.1	5.7					
¼			5.3	5.5					
₺			4.7	6.1					
¼			4.8	6.0					

Gould.
14 Cbs
13 Gts

BM	843	17.22		8.79	SE Top Hd
					Grape & Atlantic

H. S. California

S cb				0.18	17.04
Gutter on Paving Outlet				1.58	15.64
1/4 " "				0.26	16.96
& " "				0.08	17.14
1/4 " "				0.30	16.92
Gutter " "				0.83	16.39
N cb				0.16	17.06

50'

N cb				1.95	15.27
Gutter on Paving				2.64	14.58
1/4 " "				2.06	15.16
& " "				1.96	15.26
1/4 " "				2.10	15.12
Gutter " "				2.83	14.39
S cb				2.04	15.18

100'

S cb				4.02	13.20
Gutter on Paving				4.70	12.52
1/4 " "				3.94	13.28
& " "				3.75	13.47
1/4 " "				3.87	13.35
Gutter " "				4.40	12.82
N cb				3.74	13.48

Bell

N ←

Atlantic

Existing Walk

Paving

Hawthorn

California

80'
100'
80
St.
90 ft
2.00
1/4
58
1/4
4.5
5.0
4.5
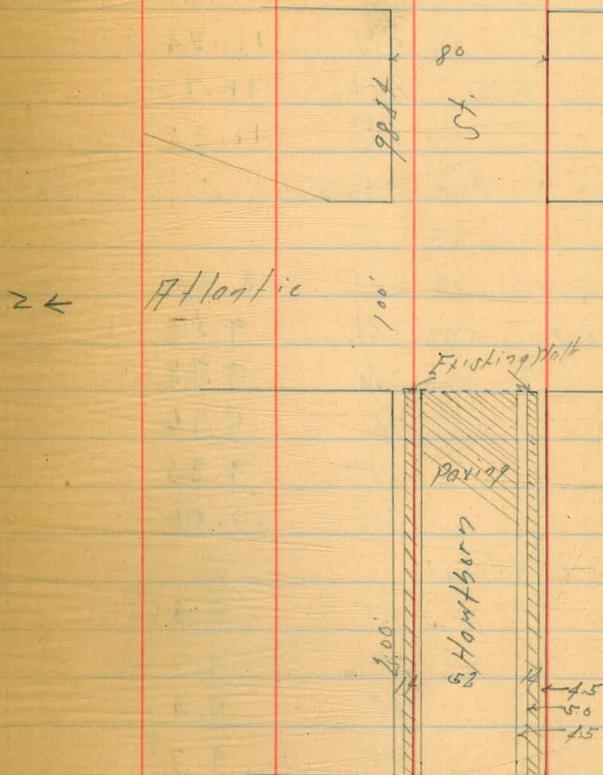
150'N				
N cb		5.43	11.79	
Gutter	on Paving	6.19	11.03	
'/4	" "	5.67	11.55	
L	" "	5.61	11.61	
'/4	" "	5.88	11.34	
Gutter	" "	6.50	10.72	
S cb		5.87	11.35	

200' N. E.L. of Atlantic - End Paving Contract

S.cb				
Gutter	on Conc Drive	8.28	8.94	
'/4	on Paving	7.68	9.54	
L	" "	7.44	9.78	
'/4	" "	7.46	9.76	
Gutter	" "	7.87	9.35	
N cb		7.16	10.06	

N.L. of Atlantic

N		7.4	9.8
Cb		7.5	9.7
'/4		7.8	9.4
L		7.5	9.7
'/4		7.6	9.6
Cb		7.8	9.4
S		7.0	10.2

50'N of N.L. of Atlantic

S		7.8	9.4

Right page:

Cb		8.3	8.9
'/4		8.5	8.7
L		8.1	9.1
'/4		8.6	8.6
Cb		8.5	8.7
N		8.5	8.7

98.24' N. E.L. of Belt

N		9.1	8.1
Cb		9.5	7.7
'/4		9.5	7.7
L		9.0	8.2
'/4		9.4	7.8
Cb		9.4	7.8
S		8.9	8.3

Atlantic St. Grading   Curb   RodLine   4-27-30
   PropLine   Curb   (7.13)   (7.30)   Snson
      8.00   7.90 7.23 7.90   8.05 7.90 7.96   7.53 8.20   8.30   8.52   8.65   Sco
                                                                                                      Hor
Spruce   Osborn
                                                                                                      Snow

      8.00   7.90 7.23 7.80   8.05 7.96   7.53 8.20   8.30   8.52   8.65
                        (7.73) (7.70) (7.70) 7.96

                                                                                            BM 14.33   215 in f
                                                                                                8.3   H.L Palm
                                                                                               14.65
                                                                                               15.10
                                                                                                9.25
                                                                                                8.99
                                                                                               13.24
                        (8.03)   (8.14)   7.90
      8.90   8.80 8.13 8.70   8.95   8.96 8.43 9.16   9.20   9.43   9.55   8.44
                                                                                                4.41
                                                                                               13.85
Redwood   8.48   N.L Jbars
                                                                                            BM 10.68   150 ft of
                                                                                                      E.L Atlant
                                                                                                      10.7
                                                                                                      9.0
                        (8.80)   (9.05)   9.68
      9.10   9.00 8.23 8.90   9.15   9.05 8.63 9.30   9.40   9.63   9.75   BM 14.33 215 ft
                        (8.83) (9.20) (9.30)   0.44   H.L Palm
                  7.50   14.77
                                                                                              TP 8.31   N.E Cor
                                                                                                 7.74   Ramsey
                        (8.87)   (9.09)   13.05
      9.70   9.60 8.93 8.97   9.09   9.09 9.38 10.05   10.15 50'E 10.37 60'E 10.50
                  7.50

                        (9.51)   (9.81)
     10.30   10.20 9.53 10.18 10.50 10.18   10.13 10.80 10.90
Quince
   Prol. 8'   Curb 23' 1/33' L 23' 1/33' Curb   8   Prop.

7.90 7.23 7.80 (8.13) 8.05 (7.80) 7.95 (8.20) 7.53 8.20 8.30   8.52   8.65   2.99
                                                                                                            5.26
                                                                                                            8.11

Thorn

7.90 7.23 7.80 8.05 7.95 7.53 8.80 8.30   8.52   8.65
           (8.18)   (7.80)   (7.33)

S.E.Sph. 10 12/6
Sassofras + Calif St
29.18 = B.M.
1.23 +
37.47 = T
12.81 -
17.63 = T.P.
3.16 +
20.79 = T
11.49
9.30 = T.P.
3.98 +
13.28 = T
1.50 -
8.78 = T.P.
3.34 +
12.12 = T
1.07 -
8.25 = T.P.N.E. Hub.
    Sassafras
    + Atlantic

8.80 8.13 8.70 (8.03) 8.95 (8.44) 8.85 (8.18) 8.43 9.10 9.20   9.42   9.55

Sassafras

8.80 8.13 8.70 8.25 8.05 8.43 9.10 9.30   9.42   9.55
           (8.03)   (8.30)   (8.10)
     1.50

8.35   (7.95)   (7.73)   (7.73)   8.65
     1.50

8.00   7.90 7.23 7.90 (7.13) 8.05 (7.13) 7.95 (7.30) 7.53 8.20 8.30   60'F 8.52   50' 8.65

Spruce

9.19 9.02 8.83 9.6 9.17 9.84 9.75 9.22 9.99
S.t.List 10.13 10.35 10.44 10.44
10.03 10.31
10.09 10.89
10.16
9.94 10.14
9.54 8.87 9.45 9.69 9.60 9.11 9.84 10.01
8.78 9.02 8.93
9.39 9.79
9.76 9.99
9.56
9.39 9.57 9.67
9.84 9.71 9.87
9.09 9.35 9.79
† 8.94 9.87 8.94 9.08 8.99 9.57 9.84 † 9.34 9.56 9.6?
8.17 8.42 8.23
8.80 9.10 † 9.80 9.72 9.55
8.65 8.95 9.05 9.27 9.40
8.50 8.80 8.90 9.12 9.25
8.35 7.68 7.68 7.82 7.79 8.65 8.75 8.97 9.10
8.20 7.81 7.43 7.72 7.68 7.82 8.56 8.60 8.86 8.95
P.C. 8.05 7.39 7.80 7.53 7.43 7.68 8.35 8.45 8.67 8.80
7.90 7.33 7.80 8.05 7.95 7.53 8.20 8.30 8.58 8.65
7.92 7.37 7.80 Thorn

BM 3.19   Mon on MHTide
3.23   Sta 301
10.42
7.32
TP 9.05 = on MHR on P.C.
8.07
12.12

BM 19.68
10.67
2.31
4.98
8.93
8.05
3.76
13.81

10.67
2.50
13.12
8.18
7.99 TP NE
           Prophilite
           Albanlite
           Sassafras
           9.05
           Rather

10.01	10.11		10.33	10.46	
10.16	10.66		10.48	10.61	
10.30	10.40		10.62	10.75	
10.57					
10.36	10.36		10.58	10.71	

Vine St.

Haraszthy   St

Cb. 10.16   1.25 Cb

100'

1050

200'

9.70   10.00

Emory   St

9.20   9.70

8.80   8.50

Gean   St

Proposed Atlantic St
This to P.L. 1193 Hd
A.T.&S.F. RR

#7

C
2409.75   49°45

#8

Δ = 28°52'30"

Hoopes Survey R = 3830.0
Uno umbered
Tract in N 1/4 of
M.H.T.L.   L = 1925.14

T = 985.50

#11

#12

305.47
B.C.

#13

Iron Pipe
S.L. Lot 28
+ M.H.T.L.
C.L.H.

(This Iron Pipe
replaced by Conc.Mon.
See Book 1442 p 39)

19234

Iron Pipe 56.33
S.L. Lot 28
A.T.&S.F.RR

Δ = 24°54'39
R = 2200.0
L = 956.41
T = 485.85

Δ = 7°00
R = 5730.0
L = 700.0
T = 350.45   P.I.

Iron Pipe
Hk° 1908
M.H.T.L.
R.o.W.
C.L.H.

1497.06 B.C.

Conc Mon
H.H.F.N.Co 3
P.L. 1193

B.C.

100.0

N 21°11'30"W

Ties to Hooper Mean High Tide
Survey in Morena

Ctr Line of Morena

Santa Fe R.R.

Atchison

Topeka

And

Hooper Line

Shore

Line

Mission Bay

13°00'

1488.70

£ Grand Ave

1660.70

37°41'10"

Topeka

Shore

4

5

6

8

130°15'

43°05'14"

37°49'15"

Aug. 26-31
Moore
Sisson
Northern

3500' Point

14°56'4°

87°00'30"

3500.82

1

Proposed Atlantic St Extension
At Barnett Ave

BM	0.32	28.05		27.73	BP. Moore St Fence Co From ATSF Viaduct
TP	0.20	16.07	12.18	15.87	
TP	0.75	8.39	8.43	7.64	
BM	7.14	6.99	8.54	-0.15	SW. Cor Barnett & Atlantic
		0+0			
30.6' N. Cb Top			6.16		
Gutter on Paving			6.81		
₵			5.95		
25.3 E. Edge Paving			6.09		
		0+50 = BC			
25.3 E. Edge Paving			5.97		
₵ on			6.19		
30.6 N. Gutter on Paving			6.74		
on Top Cb			6.13		
		0+75			
31.1 N on Top Cb			6.07		
Gutter on Paving			6.74		
₵ "			6.26		
24.6 E - Edge Paving			1.03		
		1+0			
26.6 E = Edge Paving			6.16		
₵ on			6.31		
32.1 N Gutter on			6.68		
Top Cb			6.04		
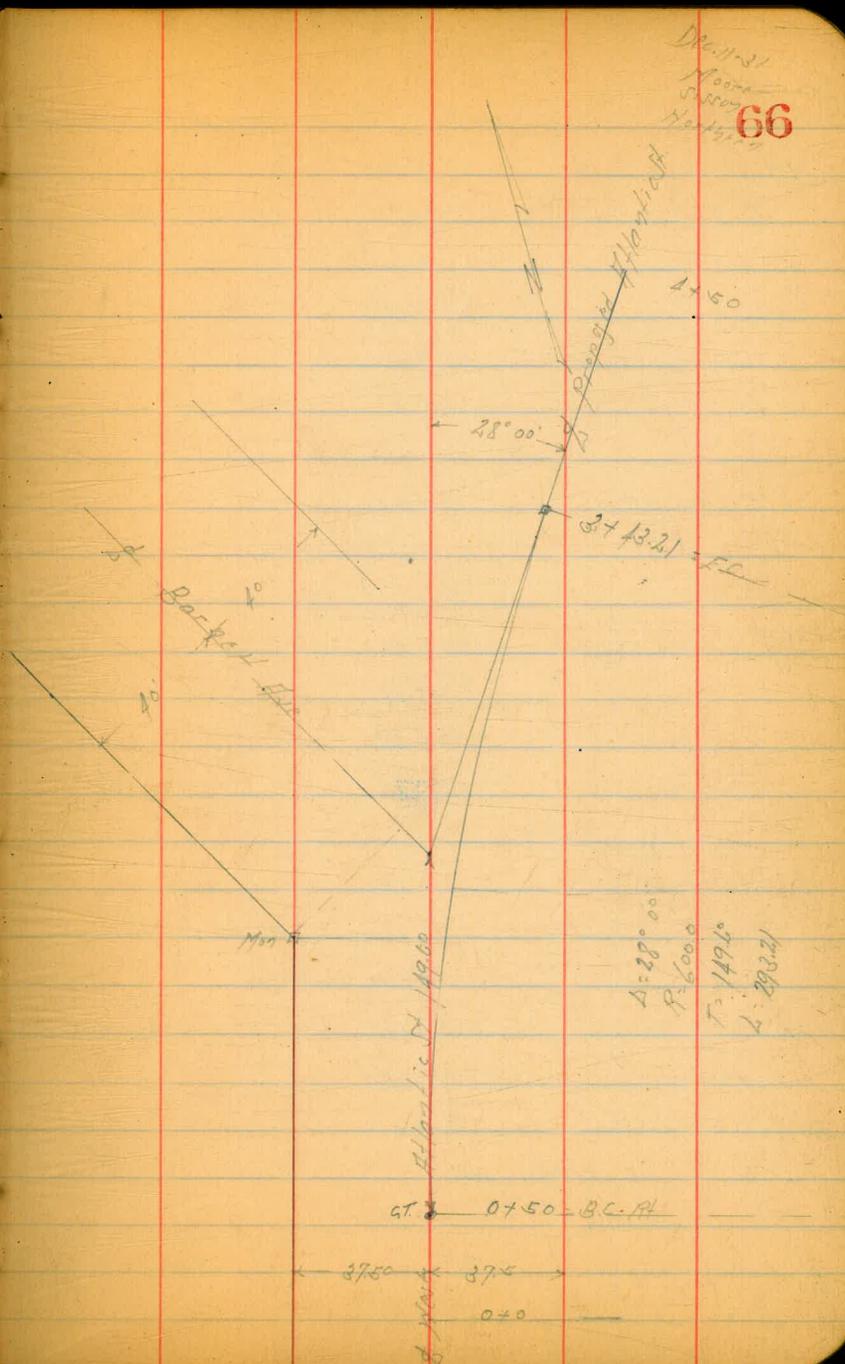
	1+25	
35.4' N = Top Curb	6.00	
Gutter on Paving	6.61	
₵ " "	6.15	
21.0' E = Edge "	6.25	
Top Cb	5.60	
40' E	6.2	
	1+50	
45.6' E = Top N Rail	2.92	
28' E	5.8	
15.3' E = Top Cb	5.66	
Gutter on Paving	6.24	
₵ " "	5.88	
39.8' N Gutter " "	6.54	
Top Cb	5.94	
	1+75	
54.0' N = Top Curb	5.79	
Gutter on Paving	6.38	
₵ " "	6.03	
6.0' E = Gutter "	6.18	
Top Cb	5.68	
35.5' E = Top N Rail	3.38	
	1+86	
30.5' E = Top N Rail	3.58	
₵ = Face on Top Cb	5.61	
Gutter on Paving	6.18	

50' N on Paving	6.21
2+0	
50' N on Paving	6.02
96' N = Gutter on Paving	6.18
Top Cb	5.60
₵	4.8
23' E = Top N Rail	3.78
40' E	4.3
50' E	8.1
2+25	
50' E	8.4
33' E	8.4
25' E	4.3
14.3' E = Top E Rail	4.05
8.3' E = " N "	4.05
₵	4.6
34.5' N = Top Curb	5.64
Gutter on Paving	6.19
2+11.40 = ₵ Track to S N	
Top Rail	4.20
2+57.17 = ₵ Track to N	
40' E	5.1
95' N = Top N Rail	4.27
₵	4.3
26' E = Top E Rail	4.22
15' E	4.6

25 E			85		
50 E			85		
2+75					
50 E			85		
11 E			81		
℄			82		
94 W = Top E Rail			4.18		
28 W = Top W Rail			4.26		
50 E			4.6		
3+0					
50 W = Top W Rail			4.23		
225 W = " E "			4.18		
11 W			4.6		
℄			8.0		
50 E			8.2		
3+25					
50 E			76		
℄			79		
18 W			7.0		
25 W			44		
368 W = Top E Rail			4.15		
615 W = " W "			4.20		
3+43 ¾ EC					
475 W = Top E Rail			4.22		
25 W			43		
25 W			76		

℄ on Hub			7.76		
50 E			7.6		
4+0					
50 E			79		
℄			79		
50 W			76		
4+50					
50 W			72		
℄			79		
50 E			8.5		
TP	4.89	5.75	6.13	0.86	S.E. Top H.U. Kitzmiller + W. Atlantic 4.38
B.M.			1.55	4.20	

Top of Rail Levels
San Diego Electric R.R. At Atlantic St Extension

6.99

0 + 0 = 2 + 11.40		
6´ S.E. = Switch Point	3.20	
100´ S.E.	2.85	
150´ S.E.	1.48	
200´ S.E.	0.0	
0 + 0 = 2 + 41.40		
21´ N.W. Switch Point	4.30	
50 N.W.	4.21	
100 N.W.	4.20	
150 N.W.	4.14	

IMPROVED TABLES

AND

INFORMATION

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1½ to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

TABLE No. 9.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections.

Degree of curve with a given I may be found by dividing tangent, (or external), opposite I by given tangent, (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

Table II—Continued
TRIGONOMETRIC FORMULÆ (continued.)
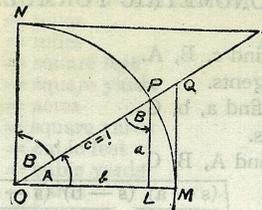
TABLE II
TRIGONOMETRIC FORMULÆ.

$\angle A = \angle MOP \qquad \angle B = \angle PON = \angle OPL$

$$R = OB = c = 1$$

$$\sin A = \frac{a}{c} = \frac{a}{1} = a = \cos B = LP$$

$$\cos A = \frac{b}{c} = \frac{b}{1} = b = \sin B = OL$$

$$\tan A = \frac{a}{b} = \frac{MQ}{OM} = \frac{MQ}{1} = MQ = \cot B = MQ$$

$$\cot A = \frac{NT}{ON} = \frac{NT}{1} = NT = \tan B = NT$$

$$\sec A = \frac{OQ}{OM} = \frac{OQ}{1} = OQ = \csc B = OQ$$

$$\csc A = \frac{OT}{ON} = \frac{OT}{1} = OT = \sec B = OT$$

$$\text{vers } A = \frac{LM}{OP} = LM = \text{covers } B \; \#$$

$$\text{covers } A = \frac{OP - LP}{OP} = OP - LP = \text{vers } B$$

$$\text{exsec } A = PQ = \text{coexsec } B$$

$$\text{coexsec } A = PT = \text{exsec } B$$

$$\sin \tfrac{1}{2} A = \sqrt{\frac{1 - \cos A}{2}} \qquad \cos \tfrac{1}{2} A = \sqrt{\frac{1 + \cos A}{2}}$$

$$\sin 2A = 2 \sin A \cos A \qquad \cos 2A = \cos^2 A - \sin^2 A$$

Law of Sines $\quad \dfrac{\sin A}{a} = \dfrac{\sin B}{B} = \dfrac{\sin C^1}{C}$

Law of Cosines $\quad c^2 = a^2 + b^2 - 2\,ab \cos C$

Law of Tangents $\quad \dfrac{a+b}{a-b} = \dfrac{\tan \tfrac{1}{2}(A+B)}{\tan \tfrac{1}{2}(A-B)}$

$$\begin{array}{r} 8.3 \\ 1.? \\ \hline -7.1 \end{array}$$

0-3

$$\begin{array}{r} 6.8 \\ 3 \\ \hline -7.1 \end{array}$$