

1448

PASTY

1836

1836

114-93
116-94
218-96
787

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THE FREDERICK POST CO.
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 IRVING PARK STATION
 CHICAGO, ILL.

ENGINEERING DEPARTMENT
CITY OF CALIFORNIA

MICROFILMED

DEC 23 1964

indexed
c.s.K.

April 1, '32.
E. Mosier,
J. Daniels, X
C. Olmsted chain
L. DePerehi chain

Parking Area in Zoo

3+85
D

11° 52' Lt ✓

3+50

3+00

2+50

2+00
A

15° 03' Lt

1+50

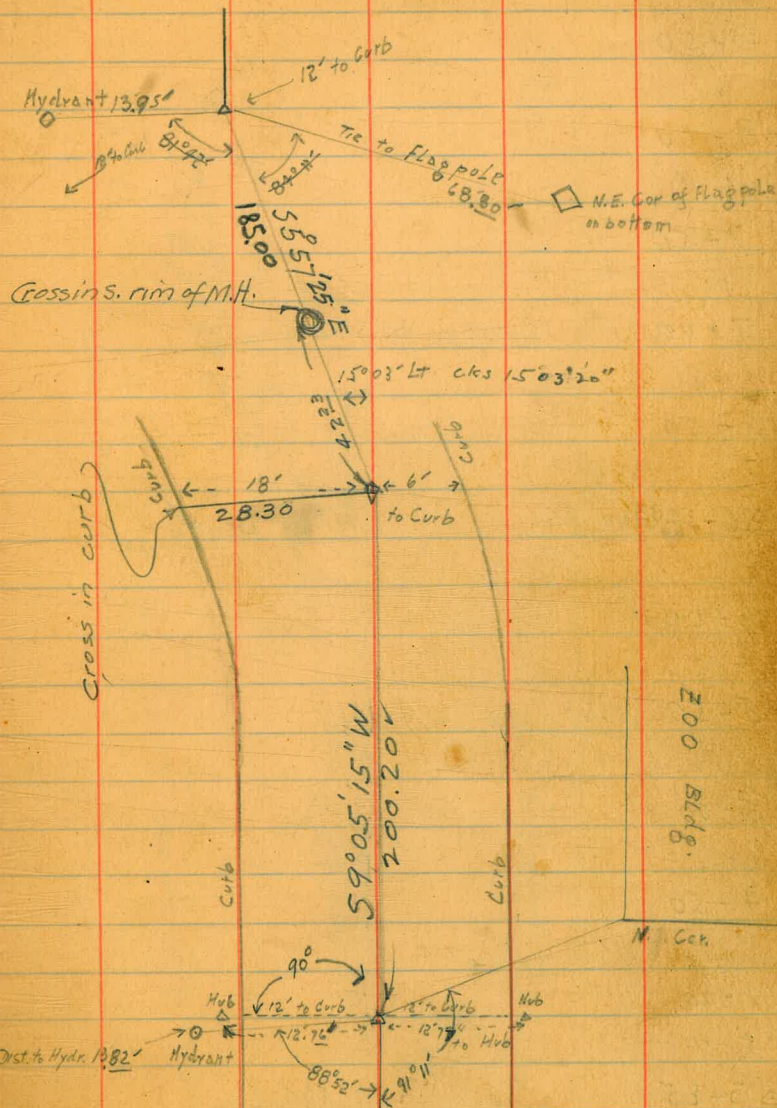
1+00

0+50

0+33

0+17

0+00



For continuation
of Zoo Bdry Survey
See "Zoo Book # 5"
page 2, going North
from this point.

12' → 12' →
To 5753.19 = 8' N. of
Zoo fence going W.

8+50

8+00

7+50

7+00

6+50

△ 6+34.23

6+00

5+50

5+00

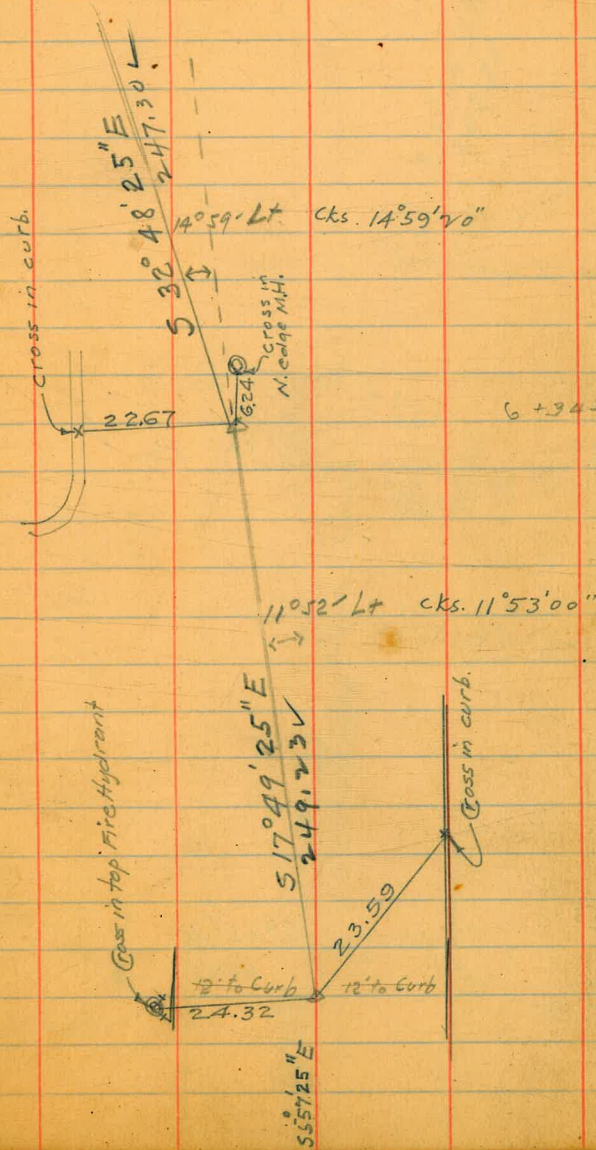
4+50

4+00

△ 3+85

14° 59' Lt ✓

11° 52' Lt.



13+00

12+50

12+00

11+50

11+00

 $\Delta 10+74.0$

10+50

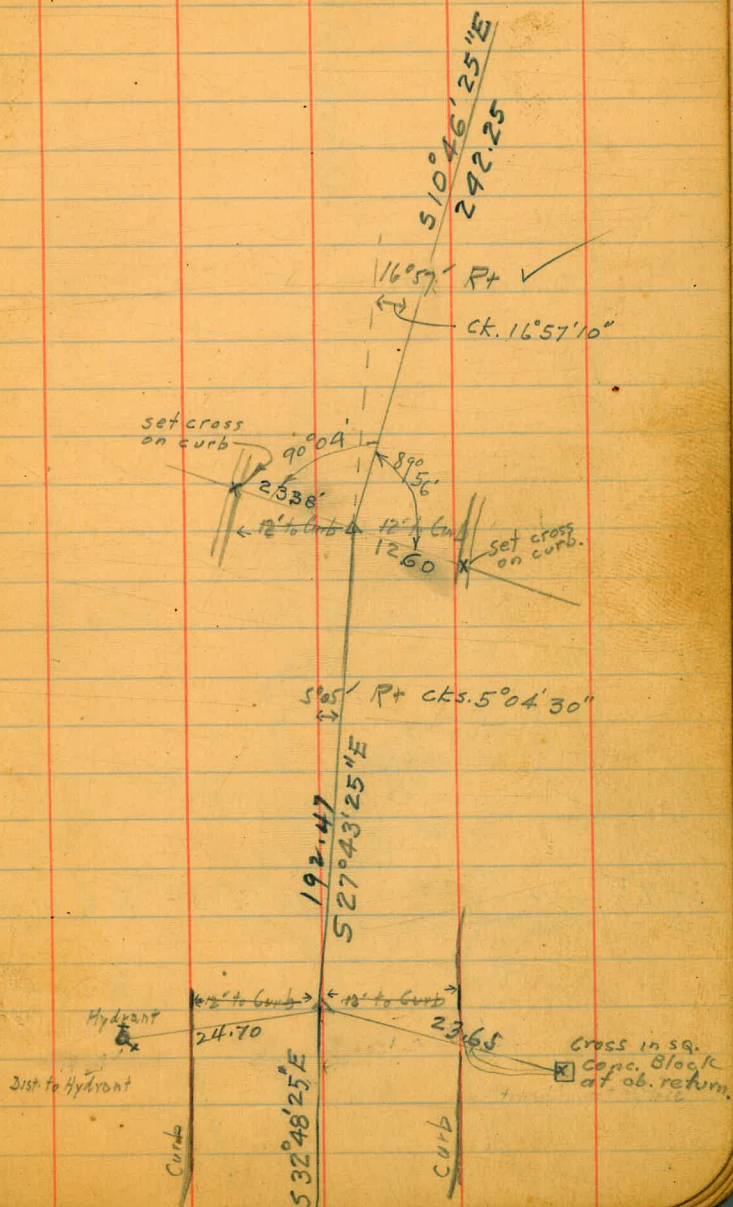
10+00

9+50

9+00

 $\Delta 8+81.53$

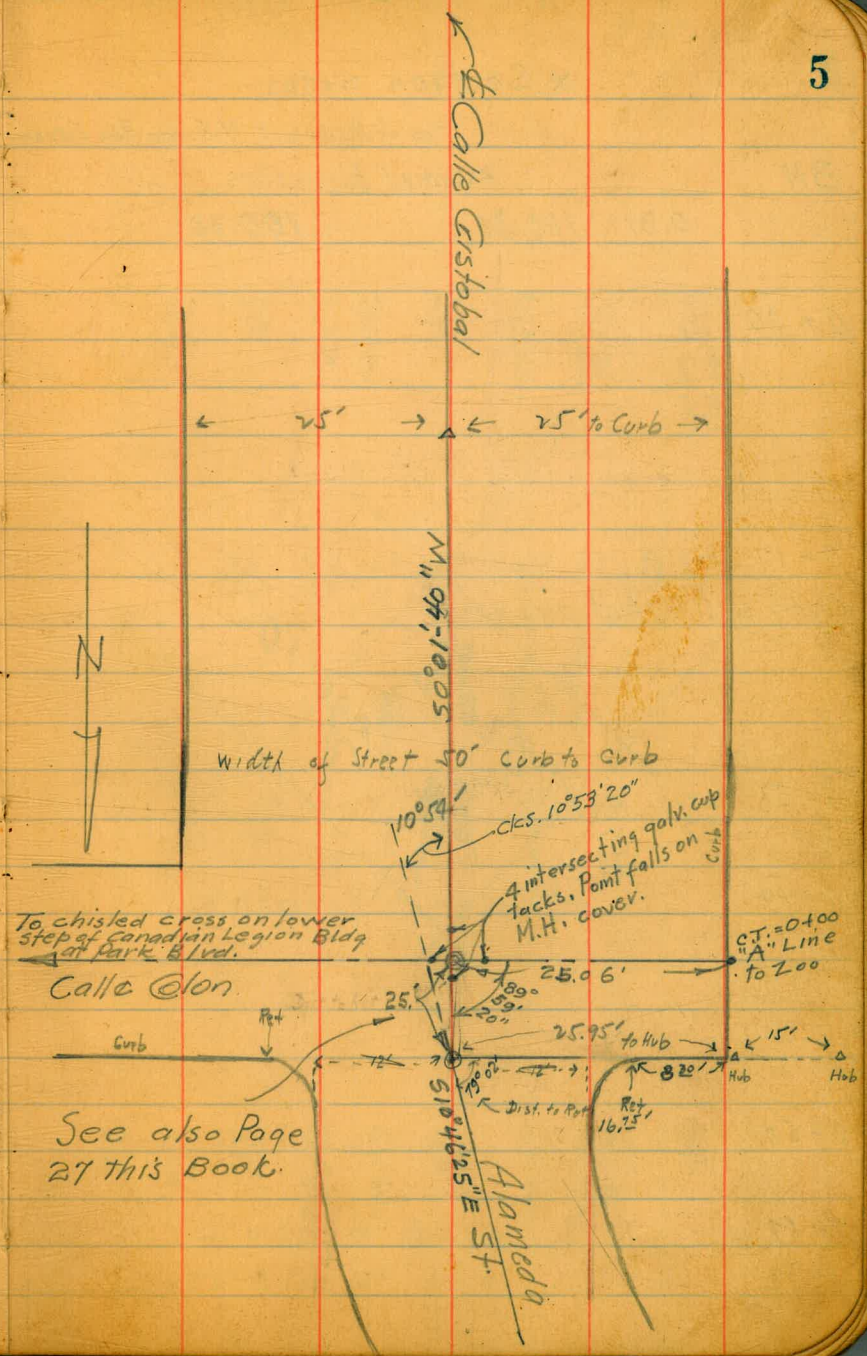
8+50

 $16^{\circ}57' \text{ Rt}$ $5^{\circ}05' \text{ Rt}$ 

13+16.25
△

10°54' Rt to E of street
ahead

13+00



See also Page 27 this Book.

x Section notes

Top of Hydrant N.E. opp. Zoo Entrance

assumed Elevation 100.00

BM

0.31 100.31 100.00

0+00

0.6 62	2.1 19	3.1 17 Top Curb	3.0 00	3.7 17 Gutter	3.1 17 Top Curb	3.1 17 Top Curb	3.1 17 Top Curb
-----------	-----------	--------------------------	-----------	---------------------	--------------------------	--------------------------	--------------------------

0+17

Center of Sidestreet on Left

0.6 62	2.4 24	3.9 11	3.3 00	4.0 17 Gutter	3.3 17 Top Curb	10	3.7 17
-----------	-----------	-----------	-----------	---------------------	--------------------------	----	-----------

*void
see Page 10*

0+33

0.5 62	1.9 19	3.5 17 Top Curb	4.1 17 Gutter	4.2 17 Gutter	3.4 17 Top Curb	3.9 27
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0+44

38' to Left 10" Eucalyptus Tree

0+50

0.4 62	0.7 43	2.0 23	3.6 17 Top Curb	4.2 17 Gutter	3.7 00	4.1 17 Gutter	3.6 17 Top Curb	3.1 17
-----------	-----------	-----------	--------------------------	---------------------	-----------	---------------------	--------------------------	-----------

0+57

52' to Left 14" Each Tree

0+59

42' to Left 16" " "

100.31

1+00

1+50

1+55

2+00

2+50

3+00

3+28

3+30

Void
see Page 10

Lost

E

R

7

11	09	41	47	41	47	41	45
62	46	12 Top Club	12 Top Club	00	12 Top Club	12 Top Club	27

1.2	1.3	3.3	3.7	4.5	5.0	4.5	5.0	4.6	4.9
63	43	29	21	13.2 Top Club	13.3 Top Club	00	10.7 Top Club	10.7 Top Club	25

48' to Left Cluster of Euc. Trees

2.0	3.7	4.0	4.7	5.3	4.8	4.7	5.1
68	33	25	17.8 Top Club	17.8 Top Club	00	12 Top Club	21

Void
see Page 10

2.9	3.9	4.7	5.3	4.6	5.0	4.7	5.1
62	30	12 Top Club	12 Top Club	00	12 Top Club	12 Top Club	27

3.3	4.2	4.6	5.2	4.5	4.5	5.2	4.6	5.2
59	26	9 Top Club	9 Top Club	00	12 Top Club	15 Top Club	30	30

34' to Left 14' Euc. Tree
32' to Left Palm Tree

100.31
 T.P. 4.80 99.68 5.43 94.88

3+50

3+70

3+85

3+87

4+00

4+50

void
 see Page 10

L

Q

P

8

$\frac{2.7}{5.9}$ $\frac{3.4}{2.3}$ $\frac{4.0}{9.2}$ $\frac{4.6}{9.2}$ $\frac{3.9}{0.0}$ $\frac{3.8}{4.0}$ $\frac{4.5}{14.8}$ $\frac{4.1}{14.8}$ $\frac{5.0}{3.0}$

32' to Left Large Palm Tree 4" diam.

$\frac{3.2}{6.2}$ $\frac{3.4}{2.9}$ $\frac{4.0}{12.1}$ $\frac{4.6}{12.1}$ $\frac{3.8}{0.1}$ $\frac{4.6}{12.1}$ $\frac{4.0}{19}$ $\frac{4.8}{19}$ $\frac{5.0}{2.9}$

36' to Left Excl. Top and smpl Palms

$\frac{3.4}{6.1}$ $\frac{4.0}{10.5}$ $\frac{4.6}{10.5}$ $\frac{3.8}{0.0}$ $\frac{4.6}{13.5}$ $\frac{4.0}{18.5}$ $\frac{4.9}{2.1}$ $\frac{5.1}{7.8}$

$\frac{3.0}{5.7}$ $\frac{3.9}{7}$ $\frac{4.5}{7}$ $\frac{3.9}{0.0}$ $\frac{3.6}{7.2}$ $\frac{4.5}{17}$ $\frac{4.0}{17}$ $\frac{4.9}{3.2}$

99.68

5+00

5+50

5+88

6+00

Center of Sideroad on Left

T.P.

3.86 95.82

~~Void
see Page 10~~

9

3.0	3.9	4.4	3.9	3.6	4.3	3.9	4.8	4.9
55	48	48	00	6	19.2	19.2	27	34
	Top Curb	Top Curb			Top Curb	Top Curb		

3.2	3.8	4.2	3.9	3.7	4.5	4.0	4.6	4.7
55	44	44	00	8	19.6	19.6	27	35
	Top Curb	Top Curb			Top Curb	Top Curb		

27' to Left Wood Fence

13' wide

~~Void
see Page 10~~

3.1	3.8	3.6	3.5	4.3	3.8	4.9
46	8	00	6	16.3	16.3	32
				Top Curb	Top Curb	

April 2, 32.
 E. Mosien
 J. Daniels T
 C. Olmsted Rod
 L. DeFereni Cr.

289.15 ✓
 0 + 17

10

Level & X Section Notes

B.M. on Laurel & Park Blvd.		283.95	✓ Brass Plug N.E. cor.
T.P.	3.43	287.38	12.01 275.37
T.P.	7.01	284.38	1.22 281.16
T.P.	8.80	289.96	5.30 284.66
T.P.	4.32	288.98	3.66 285.32
T.P.	4.74	290.06	1.22 288.84
T.P.	0.31	289.15	

Note
 Stationing going south
 toward 2nd Laurel St.

			0 + 00
27' west		3.5	285.7
12' W Top Curb		3.1	86.1
12' W Gutter		3.2	85.5
⊥		3.0	86.2
12' East Gutter		3.8	85.4
12' E Top Curb		3.1	86.1
19 E		2.1	87.1
62 E		0.6	88.6

27' west		3.7	285.5
12' W Top Curb		3.3	85.9
12' W Gutter		4.0	85.2
⊥		3.3	85.9
11' East in side street		3.9	85.3
24 E " "		2.4	86.8
62 E " "		0.6	88.6

0 + 33

27' west		3.9	85.3
12' W Top Curb		3.4	85.8
12' W Gutter		4.2	85.0
⊥		3.5	85.7
12' East Gutter		4.1	85.1
12' E Top Curb		3.5	85.7
19 E		1.9	87.3
62 E		0.5	88.7

0 + 44

38' East 10" Eucalyptus Tree			
			0 + 50
27' west		4.1	85.1
12' W Top Curb		3.6	85.6
12' W Gutter		4.1	85.1
⊥		3.7	85.5

289.15^v

0+50

12' East Gutter	4.2	85.0
12' E Top Curb	3.6	85.6
23 E	2.0	87.2
43 E	0.7	88.5
62 E	0.4	88.8

0+57

52' E 14° Euc. Tree

0+59

42' E 16° Euc. Tree

1+00

27' west	4.5	84.7
12' W. Top Curb	4.1	85.1
12' W. Gutter	4.7	84.5
⊥	4.1	85.1
12' East Gutter	4.7	84.5
12' E Top Curb	4.1	85.1
46' E	0.9	88.3
62' E	1.1	88.1

1+50

25' west	4.9	84.3
10.7' W. Top Curb	4.6	84.6
10.7' W. Gutter	5.0	84.2
⊥	4.5	84.7

289.15^v

1+50

13.3' East Gutter	5.0	84.2
13.3' E. Top Curb	4.5	84.7
21' E	3.7	85.5
29' E	3.3	85.9
43' E	1.3	87.9
63 E	1.2	88.0

1+55

48' East Cluster of Eucalyptus Trees

2+00 Δ

21' west	5.1	84.1
6.2' W. Top Curb	4.7	84.5
6.2' W. Gutter	5.2	84.0
⊥	4.8	84.4
6' East	4.6	84.6
17.8' E Gutter	5.3	83.9
17.8' E Top curb	4.7	84.5
25' E	4.0	85.2
33 E	3.7	85.5
68 E	2.0	87.2

2+50

27' west	5.1	84.1
12' W. Top curb	4.7	84.5
12' W. Gutter	5.0	84.2
⊥	4.6	84.6

11

289.15

2+50

12" East Gutter	5.3	283.9
12" E Top curb	4.7	84.5
30" E	3.9	85.3
62" E	2.9	86.3

3+00

30" west	5.2	84.0
15" W Top curb	4.6	84.6
15" Gutter	5.2	84.0
4" west	4.5	84.7
♀	4.5	84.7
9" East Gutter	5.2	84.0
9" E Top curb	4.6	84.6
26" E	4.2	85.0
59" E	3.3	85.9

3+28

34" east 14" Eucl Tree

3+30

32" east Palm Tree

T.P. 4.80 288.52 5.43 283.72

3+50

30" west	5.0	283.5
14.8 W Top curb	4.1	84.4
14.8 W Gutter	4.5	84.0
4" W.	3.8	84.7

288.52

3+50

♀	3.9	284.6
9.2" East Gutter	4.6	83.9
9.2" E Top curb	4.0	84.5
23" E	3.4	85.1
59" E	2.7	85.8

3+70

32" East Large Palm Tree 4" diam.

3+85

27" west	5.0	83.5
19" W	4.8	83.7
12" W Top curb	4.0	84.5
12" W Gutter	4.6	83.9
♀	3.8	84.7
12" E Gutter	4.6	83.9
12" E Top curb	4.0	84.5
29" E	3.4	85.1
62" E	3.2	85.3

3+87

36" East Eucl. Tree & small Palms

4+00

28" west	5.1	83.4
21" W	4.9	83.6
13.5 W Top curb	4.0	84.5
13.5 W Gutter	4.6	83.9

12

288.52

4+00

4	3.8	284.7
10.5 East Gutter	4.6	83.9
10.5 E. Top curb	4.0	84.5
61 E.	3.4	85.1

4+50

32' west	4.9	83.6
17' w. Top curb	4.0	84.5
17' w. Gutter	4.5	84.0
7' W	3.6	84.9
4	3.9	84.6
7' East Gutter	4.5	84.0
7' E Top curb	3.9	84.6
57' E	3.0	85.5

5+00

34' west	4.9	83.6
27' west	4.8	83.7
19.2 w. Top curb	3.9	84.6
19.2 w Gutter	4.3	84.2
6' W.	3.6	84.9
4	3.9	84.6
4.8' East Gutter	4.4	84.1
4.8' E Top curb	3.9	84.6
55 E	3.0	85.5

288.52

5+50

35' west	4.7	283.8
27' W	4.6	83.9
19.6' w. Top curb	4.0	84.5
19.6' w. Gutter	4.5	84.0
8' W	3.7	84.8
4	3.9	84.6
4.4' East Gutter	4.2	84.3
4.4 E. Top curb	3.8	84.7
55' E	3.7	85.3

5+88

27' East wood. Fence 3' wide

6+00

32' west	4.7	83.8
16.3 w. Top curb	3.8	84.7
16.3 w. Gutter	4.3	84.2
6 W.	3.5	85.0
4	3.6	84.9
8' East in side road	3.8	84.7
46' E " " "	3.1	85.4
T. P. 4.00	288.66	3.86 284.66

6+34.23 Δ

27' west	4.9	283.8
13' W	4.5	84.2
12' W Top curb	3.9	84.8

288.66^v

6+34.23 Δ

12" w. Gutter	4.5	284.2
⊥	3.6	85.1
12" East Top curb	4.4	84.9
12" E Gutter	4.0	84.7
62" E	2.8	85.9

6+50

27" west	4.7	84.0
14" w.	4.3	84.4
13.6" w. Top curb	3.9	84.8
13.6" w. Gutter	4.6	84.1
⊥	3.6	85.1
10.4" East Gutter	4.6	84.1
10.4" E Top curb	4.0	84.7
31 E. Orange Trees	3.5	85.2
61" E	3.2	85.5

7+00

33" west	4.9	83.8
19" w.	4.4	84.3
17.7" w. Top curb	3.9	84.8
17.7" w. Gutter	4.6	84.1
5" w	3.5	85.2
⊥	3.7	85.0
6.3" East Gutter	4.5	84.2
6.3" E Top curb	3.9	84.8

288.66^v

7+00

13" E	3.7	285.0
27" East Orange Trees	3.3	85.4
57" E	2.8	85.9

7+50

34" west	5.1	83.6
20" w.	4.5	84.2
19.1 w. Top curb	3.9	84.8
19.1 w. Gutter	4.5	84.2
6" w.	3.6	85.1
⊥	3.7	85.0
5" E. Gutter	4.3	84.4
5" E. Top curb	3.8	84.9
12" E	3.2	85.5
26" E. Orange Trees	2.9	85.8
55" E	2.0	86.7

7+82

28" East wooden Pergola, 8" wide x 12" Long

8+00

27" west	4.7	84.0
19" w.	4.1	84.6
18" w. Top Curb	3.8	84.9
18" w. Gutter	4.5	84.2
6" w.	3.6	85.1
⊥	3.8	84.9

14

288.66'

8+00

6' East Gutter 4.3 284.4

6' E Top curb 3.6 285.1

13' E 2.8 285.9

27' E Orange Orchard 2.2 286.5

56' E 1.5 287.2

T.P. 4.01 291.69 0.98 287.68 on Hydrant opp. Sta. 8+81

8+50

29' west 7.1 284.6

14.4' W Top curb 6.8 284.9

14.4' W Gutter 7.1 284.6

E 6.6 285.1

9.6 East Gutter 7.4 284.3

9.6 E Top Curb 6.8 284.9

17' 5.2 286.5

32' E Orange Trees 4.9 286.8

60' E 4.2 287.5

8+81.53 Δ

27' west 6.4 285.3

19' W 6.1 285.6

12' W Top curb 6.8 284.9

12' W Gutter 7.1 284.6

E 6.5 285.2

12' East Gutter 7.5 284.2

12' E Top curb 6.8 284.9

291.69'

8+81.53 Δ

19' E 5.0 286.7

34' E Orange 4.4 287.3

62' E 3.6 284.1

9+00

25' west 5.9 285.8

17' W 5.6 286.1

9.6' W Top curb 6.7 285.0

9.6' W Gutter 7.3 284.4

E 6.6 285.1

14.4' East Gutter 7.4 284.3

14.4' E Top curb 6.7 285.0

21' E 4.7 287.0

35' E Orange Trees 4.1 287.6

65' E 3.1 284.6

9+13

35' East wooden Pergola 8' x 12'

9+50

21' west 5.0 286.7

13' W 5.0 286.7

6' W Top curb 6.7 285.0

6' W Gutter 7.3 284.4

E 6.7 285.0

6' East 6.4 285.3

18' E Gutter 7.4 284.3

15

291.69⁻

9+50

18' E Top curb	6.8	284.9
25' E	3.8	87.9
41' E Orange Trees	2.7	89.0
68' E	1.6	90.1

10+00

21' West	4.6	87.1
13' W	4.6	87.1
5.6' W Top curb	6.4	85.3
5.6' W Gutter	7.2	84.5
⌀	6.7	85.0
6' East crown	6.5	85.2
18.4' E Gutter	7.3	84.4
18.4' E Top curb	6.7	85.0
26' E	3.2	88.5
41' E Orange Trees	2.4	89.3
68' E	1.3	90.4

10+38

36' East wooden Pergola 8' x 12'

10+50

24' West	5.1	86.6
16' W	4.9	86.8
9.1' W Top curb	6.6	85.1
9.1' W Gutter	7.1	84.6
E	6.6	85.1

291.69⁻

10+50

15' East Gutter	7.3	284.4
15' E Top curb	6.7	85.0
22' E	3.2	88.5
35' E Orange Trees	2.7	89.0
65' E	2.0	89.7

10+742 Δ

27' West	5.4	86.3
17' W	5.4	86.3
12' W Top curb	6.6	85.1
12' W Gutter	7.1	84.6
3' W Crown	6.4	85.3
⌀	6.5	85.2
12' E Gutter	7.3	84.4
12' E Top curb	6.7	85.0
19' E	3.5	88.2
34' E Orange Trees	2.8	88.9
62' E	2.2	89.5

11+00

20' West	6.3	85.4
13' W	6.1	85.6
8.3' W Top curb	6.6	85.1
8.3' W Gutter	6.9	84.8
⌀	6.4	85.3
15.7' East Gutter	7.3	84.4

291.69 ✓

11 + 00

15.7' East Top curb	6.5	\$5.2
23' E	3.8	\$7.9
38' E Orange Trees	3.2	\$8.5
66' E	2.5	\$9.2
T.P. 2.69	291.40 ✓	2.98 288.71

11 + 50

20' west in side road	6.1	\$5.3
3' W	6.1	\$5.3
♀	6.2	\$5.2
6' East crown	6.0	\$5.4
20' E Gutter	6.7	\$4.7
20' E Top curb	6.3	\$5.1
27' E	4.1	\$7.3
40' E Orange Trees	3.7	\$7.7
70' E	3.0	\$8.4

11 + 63

40' East wooden Pergola 8' x 12'

11 + 90

♀ Beginning of Pavement	6.4	\$5.0
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12 + 00

16' west in driveway	5.9	\$5.5
6' W " "	6.1	\$5.3
2' W in gutter	6.5	\$4.9
♀	6.4	\$5.0

291.40 ✓

12 + 00

10' East crown	6.3	285.1
25' E Gutter	6.5	\$4.9
22' E Top curb	6.2	\$5.2
28' E	4.8	\$6.6
44' E Orange Trees	4.5	\$6.9
72' E	4.0	\$7.4

12 + 50

17' west	6.1	\$5.3
15' W	5.8	\$5.6
4.3' W Top curb	6.2	\$5.2
4.3' W Gutter	6.6	\$4.8
♀	6.5	\$4.9
8' East crown	6.2	\$5.2
19.8' E Gutter	6.5	\$4.9
19.8' E Top curb	6.2	\$5.2
24' E	5.4	\$6.0
40' E Orange Trees	5.3	\$6.1
70' E	4.8	\$6.6

13 + 00

31' west	5.9	\$5.5
21' W	6.5	\$4.9
9.5' W Top Curb	6.4	\$5.0
9.5' W Gutter	6.9	\$4.5
♀	6.6	\$4.8

291.40 ✓
13+00

13.5' East Gutter	6.7	284.7
13.5' E Top curb	6.3	85.1
19' E	5.9	85.5
31' E	5.7	85.7
64' E	5.0	86.4

13+16.25 Δ

37' west	6.1	85.3
25" W Top Curb	6.7	84.7
25' W Gutter	7.3	84.1
17' W Top Curb Ret	6.7	84.7
17' W Gutter	7.2	84.2
12' W Gutter	7.1	84.3
⊥	6.7	84.7
12' East on Pavem.	6.8	84.6
25' E Top Curb Ret	6.4	85.0
25' E Gutter	7.0	84.4
115' E Top Curb	5.3	86.1
115' E Gutter	5.9	85.5

T.P. 0.89 283.57 8.72 282.68

T.P. 12.60 287.48 8.69 274.88

B.M. Brass Plug N.E. cor. Laurel & Park Blvd. 3.50 283.98 283.95 ^{est. Elev.}

18

Top of Hyd.
East of Zoo
Bldg

B.M. 4.03 292.87 ✓

288.84 ✓

Note: Stationing going north
toward Indian Village.

For Sta. 0+00 see Page #10.

0+50

27' west	6.8	286.1
12' W Top curb	6.3	86.6
12' W Gutter	6.9	86.0
⊥	6.4	86.5
12' East Gutter	7.1	85.8
12' E Top curb	6.3	86.6
19' E	5.4	87.5
39' E	5.0	87.9
45' E Fence	4.6	88.3
62' E in Corral	4.2	88.7

1+00

29' west Fence	6.0	86.9
12' W Top curb	5.8	87.1
12' W Gutter	6.5	86.4
⊥	5.9	87.0
12' E Gutter	6.6	86.3
12' E Top curb	5.9	87.0
38' E Fence	4.7	88.2
62' E in Corral	4.5	88.4

29v.87

1+50

29' west Fence	5.9	287.0
12' W. Top curb	5.4	87.5
12' W. Gutter	6.0	86.9
⊥	5.4	87.5
12' East Gutter	5.9	87.0
12' E. Top curb	5.4	87.5
38' E. Fence	4.7	88.2
62' E in Corral	4.4	88.5

2+00

29' west concrete Wall	5.3	87.6
12' W. Top curb	5.0	87.9
12' W. Gutter	5.5	87.4
⊥	5.1	87.8
12' East Gutter	5.5	87.4
12' E Top curb	5.0	87.9
38' E Fence	4.3	88.6
62' E in Corral	4.3	88.6

2+40

28' East Euc. Tree

2+43

18' East Euc. Tree

2+50

29' west Fence	4.8	88.1
12' W. Top curb	4.4	88.5

29v.87

2+50

12' W. Gutter	5.0	287.9
⊥	4.3	88.6
12' E. Gutter	5.1	87.8
12' E. Top Curb	4.5	88.4
17' E	5.0	87.9
22' E	6.5	86.4
38' E. Fence	3.9	89.0
62' E in Corral	4.1	88.8

2+60

30' East Euc. Tree

2+80

19' East Euc. Tree

2+87

26' E. Euc. Tree

3+00

29' west Fence	4.0	88.9
12' W. Top curb	3.9	89.0
12' W. Gutter	4.5	88.4
⊥	3.8	89.1
12' East Gutter	4.5	88.4
12' E Top curb	3.9	89.0
19' E	4.0	88.9
29' E	4.7	88.2
40' E	3.5	89.4
62' E in Corral	3.0	89.9

19

29v.87

3+21

21' West End Tree

20' East " "

3+22

31' East End Tree

3+35

28' West Fence

3.8 289.1

12' W. Side Road

4.1 88.8

⊥

3.5 89.4

12' East Side Road

4.2 88.7

19' E " "

3.9 89.0

62' E

3.0 89.9

3+50

28' West Fence

3.5 89.4

12' W. Side road

4.0 88.9

⊥

3.4 89.5

12' East Gutter

4.0 88.9

62' E

2.8 90.1

3+70

14' East Teleph. Pole

3+80

14' E. Hydrant

4+00

28' West Fence

2.8 90.1

12' W. Top curb

2.9 90.0

29v.87

4+00

12' West Gutter

3.3 289.6

⊥

2.8 90.1

12' East Gutter

3.7 89.2

12' E. Top curb

2.9 90.0

62' E

0.5 92.4

T.P. 6.35 296.94 2.58 290.29

4+50

28' West Fence

5.7 290.9

18' W.

5.7 90.9

12' W. Top curb

6.1 90.5

12' W. Gutter

6.5 90.1

⊥

6.0 90.6

12' East Gutter

6.7 89.9

12' E Top curb

6.2 90.4

22' E

5.7 90.9

28' E

4.7 91.9

46' E

3.6 93.0

53' E

2.4 94.2

62' E

2.0 94.6

5+00

28' West Fence

5.6 91.0

12' W. Top curb

5.6 91.0

12' W. Gutter

6.4 90.2

⊥

5.7 90.9

20

296.84

5+00

12' East Gutter	6.1	290.5
12' E. Top curb	5.6	91.0
11' E	4.6	92.0
38' E	2.2	94.4
62' E	1.7	94.9

5+50

29' west Fence	5.4	91.2
12' west Top Curb	5.2	91.4
12' W. Gutter	5.7	90.9
Φ	5.1	91.5
12' East Gutter	5.6	91.0
12' E. Top curb	5.2	91.4
22' E	4.9	91.7
35' E	4.1	92.5
62' E	2.8	93.8

5+75

29' west Fence	5.5	91.1
12' W. ALLEY	5.8	90.8
Φ	5.0	91.6
12' East in ALLEY	5.2	91.4
27' E "	5.0	91.6
35' E	4.1	92.5
62' E	3.1	93.5

296.84

6+00

29' west Fence	5.5	291.1
23' W	5.3	91.3
20' W	4.8	91.8
12' W Top curb	4.7	91.9
12' W. Gutter	5.1	91.5
Φ	4.5	92.1
12' E. Gutter	5.1	91.5
12' E. Top curb	4.7	91.9
27' E	4.3	92.3
30' E	3.3	93.3
45' E	2.9	93.7
62' E	2.7	93.9

6+50

28' west Fence	5.1	91.5
23' W.	4.9	91.7
20' W	4.3	92.3
12' W. Top curb	4.1	92.5
12' W. Gutter	4.6	92.0
Φ	4.0	92.6
12' East Gutter	4.5	92.1
12' E Top curb	4.1	92.5
24' E	3.2	93.4
27' E	2.6	94.0
33' E	1.3	95.3
62' E	0.8	95.8

21

296.84

7+00

29' West Fence	4.3	292.3
21' W	3.7	92.9
12' W. Top curb	3.7	92.9
15' W. Gutter	4.2	92.4
♀	3.5	93.1
12' East Gutter	4.1	92.5
12' E Top curb	3.7	92.9
16' E	3.4	93.2
25' E	1.4	95.2
42' E	0.0	96.6
62' E	-1.5	98.1

7+49

14' East Hydrant

T. P.	3.02	292.62	6.94	289.60
B.M.			3.77	288.83

Est. El.
288.84
Top of Hydr.
East of 200
Bld. 0+00

April 29, 1972

Parking Area in Zoo

Sta. 0+00 North to Indian Village

2+85.3 L Pt. in fence to east

2+52.6 22-8 E to face of conc. H.W. 5' long - 12" conc. pipe
Flows S.W. 2 Wings @ 45° - 3' 2"

2+45.0 Gutter inlet east side 12x18 Grate
F.L. 1.8 to Gutter 6" Pipe runs south

2+22.5 Gutter inlet west side 12x18" C.I. Grate - 6" Pipe
F.L. 1.7 below Gutter

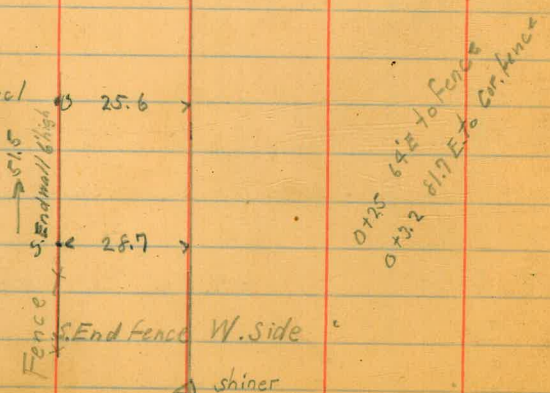
2+12.5 Water valve 14' west

1+41.5 18" Encl 25.6

1+80.5 28.7

0+77 S. End fence W. side

0+50 shiner



Pierce
McHugh
Wherry

23

7+02 S.W. cor. wall around Indian Village 14' E.

5+73.0 12.2 drive R. of returns = 5' W. side & E. side
18" block of conc. at end returns E. side

5+60.0 Gutter drain W. side - 6" drains S.E. across road
F.L. = 1.8 below curb

5+43.8 S. end playgrounds on W. side

5+38.4 N. end drive W. side

5+16.9 S. end drive W. side

4+04 Valve back of W. curb

3+80.2 End fence east side 98.6' east to cor.

3+64.5 Drain - 12x18 C.I. grating back of east curb
6" Pipe drains W. F.L. 1.4 below curb

3+60.2 S. end curb both sides 80.5 E to fence

3+25.0 Valve in 6" conc. riser 20.8 E.

3+19.4 N. end curb both sides 49.2' E to fence

Sta 0+00 Running south

	(Gutter drain E. side 12" Pipe Flows S.W. F.L. 3.1 to top curb	5+91.5	Gate valve 5.5' back E. curb line
2+17	Gutter drain W. side 8" Pipe runs south F.L. = 3.1 to top curb	5+86	S. end curb E. side
	walk on W. side 7 to 14.5 back of curb	5+46	3/4" tap - 20.4 back of E. curb
	(beginning 24" Conc. Gutter E. side	4+82.8	6" Gate - 1' back W. curb
1+30.5	S. end asphalt slab - 3" curb outlet	4+78.5	S. end 24" Gutter on E. side
1+06	Gate valve 1' back of W. curb on 3" main	4+37.5	2" Curb outlet E. curb
0+83.7	N. end asphalt slab ^{extends} 34' back of curb	4+18.5	20' E from curb to 7/4" tap
0+83.7	3" Iron curb outlet E. side	3+37.2	16.2' from back E. curb to 3/4" tap
0+33.1	S. end curb E. side	3+34.5	12' drive on W. - 5' R. returns - 7' back of curb
0+22.2	6" Gate with C.I. Cover. 5' back of W. curb	2+77	Gate Valve back E. curb 17' from curb to 3/4" tap
0+2.5	N. end curb on E. side	2+70	Gate valve back W. curb
0+00			

- 8+60.4 ϕ Drwy 9.5' wide on W. side 5' R.
Returns 7' back of curb line
- 8+01 $\frac{3}{4}$ " tap 6' back of E. curb
- 7+82 ϕ 6' rubble steps to pergola 6.5 from face of curb
- 7+32 ϕ 10' Drwy W. side 5' R. ret.
walk = curb + 7 to + 15
- 6+98.5 $\frac{3}{4}$ " tap 5.5 back E. curb
- 6+41.7 { Curb drain E. side - 6" pipe flows S.W.
F.L. 2.55 to top curb
Curb drain W. side - 6" pipe flows W.
F.L. 2.85 to top curb
- 6+23.6 N. end curb E. side
- 5+88 E-W. fence on E side
- 5+75 ϕ 12' drive to W. 5' R. ret.
- 11+84.5 P.C. curb on W. For drive R=20'
- 11+67 ϕ 6' rubble steps on E. 6.1 from back of curb
- 11+08 $\frac{3}{4}$ " tap 5.3 back of E. curb
- 10+98.7 P.C. curb on W. R=20' Curb extends 31' back
40.9 Face to F. of curb line
- 10+39.5 ϕ Rubble walk 7' - 7.3 back of curb E.
- 10+07 $\frac{3}{4}$ " Tap 5.7 back E. curb
- 9+41.2 C.B. or gutter drains
E. side 8" Pipe flows N.W.
2.5 F.L. to top curb
W. side 8" Pipe flows N.E.
2.5. F.L. to top curb
- 9+14 ϕ 6' Rubble walk on E. 6.7 back of curb
- 9+04.5 $\frac{3}{4}$ " tap 5.7. back of E. curb

B.M. Top. F.H. opp. Zoo Bldg E.L. 288.84
+ 4.20 293.04

Culvert at Sta 2+52.6 N.

F.L. 9.29 283.75
Top Hd. Wall 7.10 285.94
Curb 4.59 288.45

13+64 Sewer M.H. 11.7 W.

13+43.5 Sewer M.H. 20.4 E

13+40.7 on same tang. ahead Sewer M.H. 4.9 W.

(on E. Water Valve

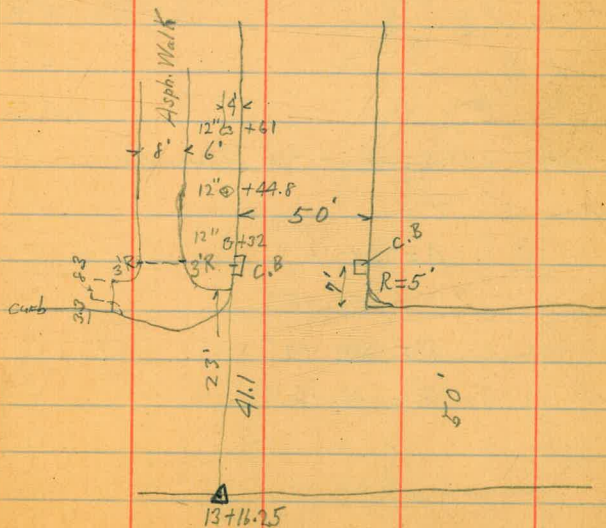
13+16.25 R. curb on W = 5' E. curb R = 15'

12+91.5 Gas Valve 18" back W. curb

12+11 3/4" tap 4.4 from E. curb

12+03 N. End curb

11+89.5 S. End curb for drwy W. side



April 30, 1932

Parking Area in Zoo

Pierce
McHugh
Wherry

27

Curb line on W. side

Curve joining present curved curb with west curb
on Calle Cristobal produced north.

$\Delta = 18-33$ ✓

Points on curve - chd = 30.29

$T = 76.41$ ✓

Defl. $\angle 1 = 1-51-18$ ✓

$R = 467.88$ ✓

$\angle 2 = 3-42-36$ ✓

$\angle 3 = 5-33-54$ ✓

$\angle 4 = 7-25-12$ ✓

$\angle 5 = 9-16-30$ ✓

Curve at S. end of the Alameda

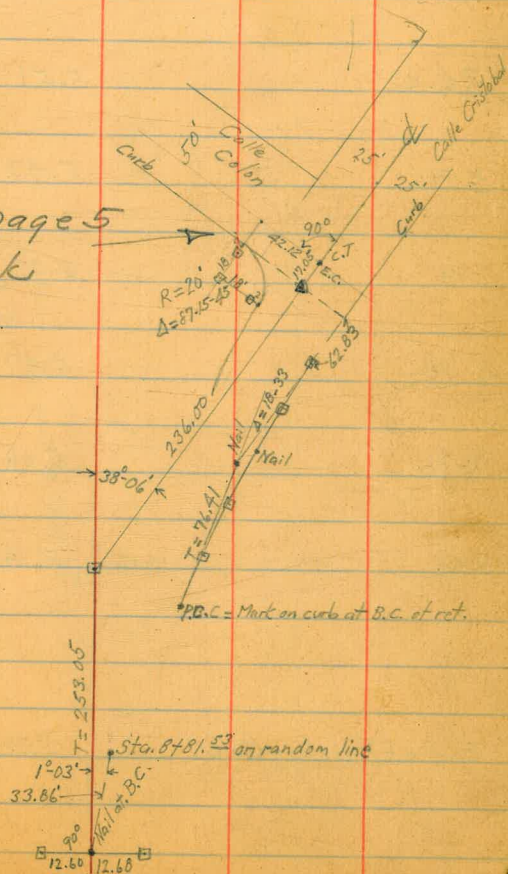
$\Delta = 38-06$ ✓

$T = 253.05$ ✓

$R = 732.83$ ✓

$E = 42.46$ ✓

Note:
See also page 5
of this Book



May 31, 1932

A. Pierce
G. P. Hatch
D. H. Fiscus

28

Alameda - Balboa Park - Const.

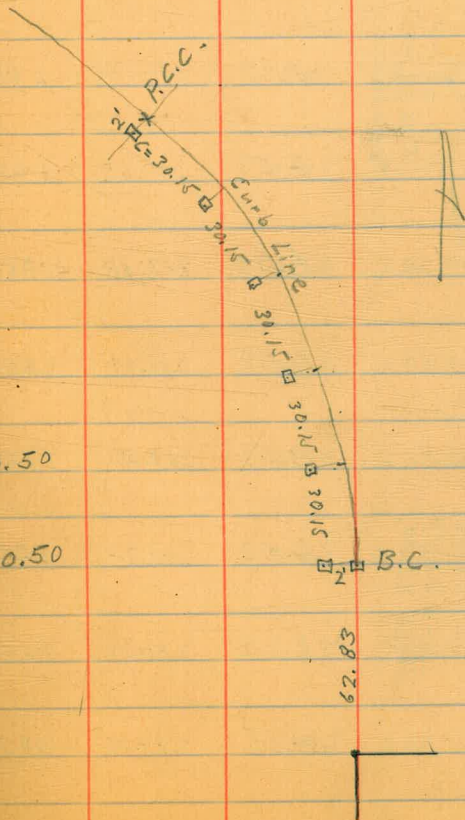
Curb stakes at S. end. - West side Alameda

287.68

B.M. Top Fire Hydrant opp. Sta #81 (orig. line)

2.84 290.52

	<u>Top Hub</u>	<u>Grade</u>	<u>Cuts</u>
P.C.C.	5.51	285.01	
$\frac{1}{2}$ Pt.	5.43	285.09	285.09 Gr.
$\frac{1}{2}$ Pt.	5.39	285.13	285.13 Gr.
$\frac{1}{2}$ Pt.	5.47	285.05	285.05 Gr.
$\frac{1}{2}$ Pt.	5.06	285.46	284.96 Cut 0.50
B.C.	5.14	285.38	284.88 Cut 0.50
End of Existing Curb	5.82	284.70	284.70



May 31, 1932

Alameda-Balboa Park

Slope Stokes

Curbline sta.		Hub El.	Curb Grades	Cuts	Red.	EI	Cuts	Dist from $\frac{1}{2}$	
450	292.18		287.68						
Δ 0+00	= B.C. opp Sta. 8+48.72 (Comp. line)	5.66	286.52	285.06	-1.46	5.6	286.6	C. 1.5	26.9
0+26	Def. 10-59-08	5.49	286.69	285.08	1.61	5.35	286.8	C. 1.7	27.2
0+52	1-58-15	5.10	287.08	285.11	1.97	5.0	287.2	C. 2.1	27.9
0+78	2-57-23	4.57	287.61	285.13	2.48	4.05	288.1	C. 2.9	26.6
$\frac{1}{2}$ Catch Basin 1+04	3-56-31	4.30	287.88	285.16	2.72	3.30	288.88	C. 3.7	31.0
1+32.50	5-01-26	3.77	288.41	285.19	3.22	2.93	289.25	C. 4.06	31.7
1+61.0	6-06-09	3.51	288.67	285.22	3.45	2.90	289.28	C. 4.06	31.8
+89.5	7-10-58	3.40	288.78	285.25	3.53	2.85	289.33	C. 4.1	31.9
2+18	8-15-46	3.79	288.39	285.27	3.12	3.22	288.96	C. 3.7	31.2
+46.5	9-20-35	4.15	288.03	285.30	2.73	3.45	288.73	C. 3.4	30.5
+75.	10-25-24	4.34	287.84	285.33	2.51	3.87	288.31	C. 3.0	29.7

B.M. Top. Fire Hyd.

L = 26.00
C = 26.00
(S₁ = 26.01)

L = 24.50
C = 28.50
(S₁ = 28.57)

	2.87	290.71			287.84	On hub Sta. 2+75				
3+02.36	11-27-37	$L = 20.756$ $C = 27.759$ $(C\% = 27.425)$	3.21	287.50	285.29	C. 2.21	2.8	287.9	C. 2.6	28.9
3+29.71	12-29-49		3.56	287.15	285.25	C. 1.90	3.5	287.2	C. 1.95	27.6
3+57.07	13-32-02		3.93	286.78	285.21	C. 1.57	3.8	286.9	C. 1.7	27.1
3+84.42	14-34-15		4.26	286.45	285.16	C. 1.29	4.2	286.5	C. 1.4	26.5
4+11.78	15-36-27		4.64	286.07	285.12	C. 0.95	4.55	286.16	C. 1.04	25.8
4+39.14	16-38-40		4.96	285.75	285.08	C. 0.67	4.85	285.86	C. 0.75	25.2
4+66.49	17-40-52.5 P.R.C. (Curb ret.)		On 2' off 5.05	285.65	285.04	C. 0.62				
Nail 1/2 on return 2' back		5.00	285.71	285.03	C. 0.68					
Curb at end Ret.		5.70	285.01	284.90						
Gutter @ C.B.		6.33	284.38							
Gutter inter. existing curbs		6.20	284.51							
T.P.	6.38	293.88	3.21	287.50						
B.M.			6.22	287.66	287.68 B.M.					

June 2, 1932

31

Cuts on curb stakes 2' offset

North of 0+00

	4.23	293.07		B.M. 288.84	Top F.H. opp. 0+00
0-02.50	End curb	5.93	287.14	Grade of curb 286.06	C 1.08
0+00		5.74	287.32	286.08	C 1.24
+50		5.44	287.63	286.57	C 1.06
1+00		5.45	287.62	287.05	C 0.57
+50		5.22	287.85	287.54	C 0.31
2+00		4.89	288.18	288.02	C 0.16
+50		7.86	285.21	288.51	F 3.30
3+00		4.50	288.57	288.99	F 0.42
T.P.		0.46	292.61		Top F.H. opp 3+00±
	4.20 3.30	296.81 295.91			
3+38.5		7.65 6.54	289.16 289.37	289.36	F 0.20 C 0.01

296.81
295.91 X

3+90 N. end curb	6.79 5.94	290.02 289.97	289.86	0.16 C. 0.11
4+30 S. end curb	5.90 5.25	290.91 290.66	290.25	0.66 C. 0.41
4+50	5.25 4.90	291.56 291.21	290.44	1.12 C. 0.27
5+00	4.27 3.93	292.54 291.98	290.93	1.61 C. 1.05
5+50	4.69 4.69	292.12 291.22	291.41	C 0.71
6+00 B.C.	4.19	292.62	291.90	C 0.72
+25.20	3.61	293.20	292.15	C 1.05
+50.39 P.R.C.	3.82	292.99	292.40	C 0.59
+75.59	3.63	293.18	292.70	C 0.48
7+00.78 E.C.	3.69	293.12	293.00	
T.R.	0.49	296.32	B.M.	Top F.H. S.W. cor. Indian Village
	0.52	296.84		
T.P.	7.65	289.19	B.M.	Cross on conc. curb West side St. N. end curb opp Sta 3+20
	3.36	292.55	3.72	288.83 288.84
		6.55	286.00	B.M. Hub back of W. curb opp 0+00

defl. L = 3-08-20 c = 25.18

defl. L = 6-16-40 c = 25.18

June 3, 1932

33

SC Cuts on Curb Stakes - 2' offset

South of 0+00

	5.23	291.23	286.00	B.M.	Hub back of W. curb app Sta. 0+00
0+37.50 N. end curb		3.62	287.61	Curb Grade 285.72	C 1.89
0+85.49 B.C. = 0+00 on curve		4.83	286.40	285.25	C 1.15
0+31.13		5.04	286.19	284.95	C 1.24
0+62.25		5.45	285.78	284.65	C 1.13
0+87.25		5.63	285.60	284.47	C 1.13
1+16.25 $\frac{1}{2}$ C.B.		5.96	285.27	284.43	C 0.84
1+48.23		6.27	284.96	284.46	C 0.50
1+80.20		6.43	284.80	284.49	C 0.31
2+12.18		6.45	284.78	284.53	C 0.25
2+44.15		6.38	284.85	284.56	C 0.29
T.P.		6.67	284.56		B.M. Cross top of W. curb Sta. 3+60± (east curb sta) in center walk to bldg.
	4.69	289.25			

289.25 X

				<u>Curb Grade</u>	
2+76.13		4.66	284.59	284.59	Grade
3+08.10		4.63	284.62	284.62	Grade
3+40.08		4.62	284.63	284.65	F. 0.02
3+72.05		4.59	284.66	284.69	F. 0.03
4+04.03		4.59	284.66	284.72	F. 0.06
✓ 4+33.27		4.64	284.61	284.75	F. 0.14
4+62.51		4.58	284.67	284.74	F. 0.11
4+91.75	S. end curb	4.47	284.78	284.81	F. 0.03
5+31.75	N. end curb	4.42	284.83	284.85	F. 0.02
5+35	± C.B.	4.51	284.74	284.85	F. 0.11
✓ 5+67.27		4.37	284.88	284.88	Grade
5+99.55		4.12	285.13	284.91	C. 0.22

289.25 X

6+31.82 3.86 285.39 284.95 C 0.44

+64.09 3.60 285.65 284.95 C 0.67

+96.37 3.22 286.03 285.01 C 1.02

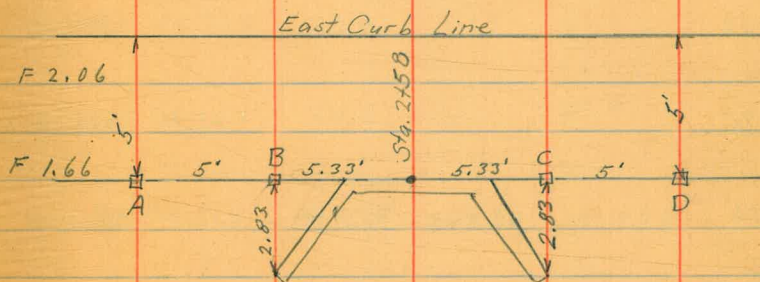
7+28.64 E.C. 2.91 286.34 285.04 C 1.30

1.60 287.65 287.68 B.M. Top F.H. opp. Sta 8+81

4.39 284.86⁺⁰³ = 284.89 B.M. - Top Hub back W. curb opp. B.C. Sta. 8+46.72

Stakes for headwall Sta. 2+58

	4.23	293.42		289.19	B.M. Cross on W. curb opp. Sta. 3+20
A		5.62	287.80	^{Top H.W. Wall} 286.90	F 1.10
B		6.57	286.85		F 2.05
C		6.58	286.84		F 2.06
D		6.18	287.24		F 1.66



Reset A	June 30, 1932	Pierce McCarthy				
	5.22	294.41		289.19	B.M.	
A		7.30	287.11	286.90		F 1.79
D		7.12	287.29	286.90		F 1.61

June 29, 1932

Pierce
M-Carty
Loughborough

37

Curb stakes on curve Southend job - E. curb.

	5.40	290.29	284.89	B.M.			
0+00		3.88	Top Hub 286.41	Curb Grade 285.06	C 1.35		
0+26		3.54	286.75	285.08	C 1.69		
0+52		4.26	286.03	285.11	C 0.92		
0+78		4.31	285.98	285.13	C 0.85		
± C.B. 1+04		3.94	286.35	285.16	C 1.19	F.L. C.B.	282.60 C. 3.75
1+32.50		3.42	286.89	285.19	C 1.68		
1+61.0		3.66	286.63	285.22	C 1.41		
1+89.5		2.91	287.38	285.25	C 2.13		
2+18		3.85	286.44	285.27	C 1.17		
2+46.5		4.09	286.20	285.30	C 0.90		

290.29X

2+75		3.60	286.69	285.33	c 1.36
3+02.36		3.70	286.59	285.29	c 1.30
3+29.71		4.53	285.76	285.25	c 0.51
3+57.09		3.66	286.63	285.21	c 1.42
3+84.42		3.76	286.53	285.16	c 1.37
4+11.78	Tack in wood curb	4.05	286.24	285.12	c 1.12
4+39.14		4.14	286.15	285.08	c 1.07
4+66.49		4.60	285.69 285.66	285.04	c 0.62

June 30, 1932

Pierce

McCarty

39

Extra Stakes for curb

4.71 289.27 284.56 B.M. X in walk opp. 3+60±

See pg. 32.

2+52.15 4.38 284.89 Curb Gr. 284.57 C 0.32

4+33.27 4.88 284.39 284.75 F 0.36

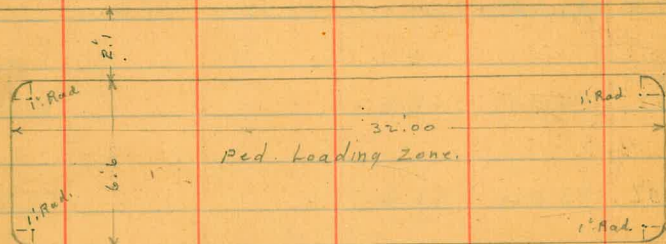
5+67.27 4.43 284.84 284.88 F 0.04

Pedestrian Loading Zone
To be Moved Park Blvd. + El Cajon. To 30' + Univ

9/8/52
Miller
Walker
Bliss.

Present Location

Park Blvd.
E. Rail.



original location Park + El Cajon.
S. End.

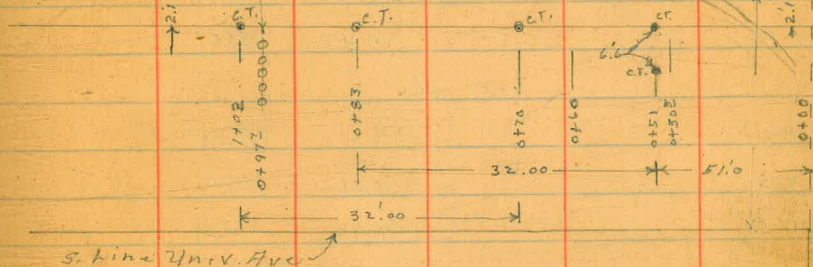
Rail	X 303.27	3.85	
park. S.W. Cor.		3.87	}
Top. S.W. "		3.19	
" S.E. "		3.04	}
park. S.E. "		4.06	
N. End.			
Rail		3.89	
park. N.W. Cor.		3.95	}
Top. N.W. "		3.27	
" N.E. "		3.15	}
park. N.E. "		4.12	

Note. I used NW Cor top as 300' arbitrary

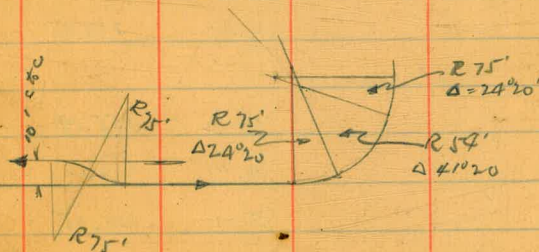
Proposed Location

University

S. Rail



Dopean Curve from WO Anderson.
SD Elect Ry.
East on Univ to North on 30th
9/10/52 HPLchase



✓ HPL. 9/19/52

51.70
32.32
83 102.

57.8
59.5

40

W. Line 300' St.

E. Line 300' S. Line Univ to S. Edge S. Rail 57.8

Levels for Red. Zone 30th + 21st W.N.W. 30th
+ 21st Ave.

B.M. 4.03 360.06 356.03

0+00 = White 30th on S.

S. Rail 4.45 355.61

2.1 S. parmt. 4.49 355.57

8.7 S. " 4.49 355.57

0+51 W.

S. Rail 4.61 355.45

2.1 S 4.66 355.40

8.7 S 4.77 355.29

0+70 W.

S. Rail 4.74 355.32

2.1 S 4.74 355.32

8.7 S 4.77 355.29

0+83 W.

S. Rail 4.81 355.25

2.1 S 4.80 355.26

8.7 S 4.91 355.15

1+02 W.

S. Rail 4.92 355.14

2.1 S 4.91 355.15

8.7 S 5.01 355.05

✓ HPL
9/1/73 ✓

Atlantic St Extension Cross Section
 Line Change As Per Col. C.B. King
 For Alignment at 1942

Sta 181+0 to 207+0.29

IP 478 955 190+50 Sec 1439 Page 32 From Back

181+0

9.5

50' H	132	-3.7	✓
26' H	118	-2.3	✓
23' H	101	-0.6	✓
13' H	49	4.6	✓
2	11	5.1	✓
3' H	58	3.7	✓
23' H	51	4.1	✓
50' H	13	5.2	✓

181+50

50' H	13	5.2	✓
23' H	49	4.6	✓
14' H	59	3.6	✓
2	13	5.2	✓
15' H	50	4.5	✓
23' H	111	-1.9	✓
25' H	182	-2.8	✓
50' H	136	-4.1	✓

182+0

50' H	137	-2.2	✓
23' H	119	-2.4	✓
20' H	118	-2.3	✓
13' H	52	4.3	✓
2	20	5.5	✓

955

9.5

15' H	47
18' H	64
23' H	42
50' H	24
50' H	1.7
27' H	44
23' H	66
18' H	66
12' H	42
2	39
12' H	52
19' H	116
23' H	121
50' H	137

182+50

50' H	135
23' H	121
15' H	105
10' H	50
2	37
13' H	41
23' H	72
22' H	78
21' H	51
50' H	22

5.8 ✓

42

5.1 ✓

5.3 ✓

7.1 ✓

7.8 ✓

5.1 ✓

2.9 ✓

2.9 ✓

5.3 ✓

5.6 ✓

4.1 ✓

-2.1 ✓

-2.9 ✓

-4.2 ✓

-4.0 ✓

-2.6 ✓

-1.0 ✓

4.5 ✓

5.8 ✓

5.4 ✓

2.3 ✓

1.7 ✓

4.1 ✓

7.1 ✓

Note: -
 Rip Rap on the
 From
 180+0 to 182+50

Rip Rap
 on the
 From
 182+50 to 187+0

od 1433
 Map

18370 9.55

9.5

50 Pt	5.2	4.7	✓
38 Pt	6.3	3.4	✓
31 Pt	8.2	1.3	✓
23 Pt	8.4	1.1	✓
14 Pt	4.4	5.1	✓
2	3.9	5.6	✓
7 Lt	6.2	3.3	✓
13 Lt	11.4	-1.9	✓
23 Lt	12.6	-3.1	✓
50 Lt	13.8	-4.3	✓

183750

50 Lt	14.6	-5.1	✓
23 Lt	12.3	-2.8	✓
11 Lt	11.9	-2.4	✓
2	4.5	5.0	✓
23 Pt	4.8	4.7	✓
30 Pt	7.9	1.6	✓
43 Pt	7.9	1.8	✓
50 Pt	4.3	5.2	✓

18410

50 Pt	4.3	5.2	✓
40 Pt	7.0	4.5	✓
33 Pt	7.4	2.1	✓
23 Pt	5.2	2.3	✓
2	5.0	4.5	✓

9.55 9.5

10 Lt	12.1	-2.6	✓
23 Lt	13.0	-3.5	✓
50 Lt	15.2	-5.7	✓
184750			
50 Lt	15.3	-5.8	✓
23 Lt	13.1	-3.6	✓
8 Lt	12.0	-2.5	✓
2	5.4	4.1	✓
15 Pt	4.2	5.3	✓
20 Pt	7.5	4.0	✓
23 Pt	7.6	1.4	✓
50 Pt	7.4	2.1	✓

18510

50 Pt	6.0	3.5	✓
23 Pt	7.1	2.2	✓
17 Pt	4.2	5.3	✓
7 Pt	4.2	5.3	✓
2	7.1	2.2	✓
5 Lt	12.2	-2.7	✓
23 Lt	13.3	-3.8	✓
40 Lt	15.4	-5.9	✓

185450

50 Lt	15.5	-6.0	✓
23 Lt	13.3	-3.8	✓
5 Lt	12.0	-2.5	✓
2	7.9	1.6	✓

	9.55	9.5		
10' Pt		41	5.2	✓
23' Pt		41	5.2	✓
50' Pt		60	3.5	✓
X	185+9590 = EC For Ties see Page 46			
50' Pt		50	4.5	✓
23' Pt		40	5.5	✓
10' Pt		39	5.6	✓
2' 02446		1031	(0.81) -	✓ - 0.76
5' Pt		12.3	-2.8	✓
23' Pt		13.5	-4.0	✓
50' Pt		15.5	-6.0	✓
	186+50			
50' Pt		15.6	-6.1	✓
23' Pt		13.4	-3.9	✓
6' Pt		12.6	-3.1	✓
2		7.5	2.0	✓
6' Pt		44	5.1	✓
23' Pt		38	5.7	✓
50' Pt		33	5.7	✓
	187+50			
50' Pt		33	6.2	✓
23' Pt		36	5.9	✓
4' Pt		46	4.9	✓
2		67	2.8	✓
7' Pt		12.2	-2.8	✓
23' Pt		13.6	-4.1	✓

	9.55	9.5		
50' Pt		15.7	-6.2	✓
	187+50			
50' Pt		15.6	-6.1	✓
23' Pt		14.1	-4.6	✓
7' Pt		12.9	-3.4	✓
2		18	2.7	✓
8' Pt		44	5.1	✓
23' Pt		37	5.8	✓
50' Pt		44	5.1	✓
	188+0			
50' Pt		40	5.5	✓
23' Pt		30	6.5	✓
9' Pt		33	5.7	✓
5' Pt		16	7.9	✓
2		16	7.9	✓
8' Pt		131	-3.6	✓
23' Pt		142	-4.7	✓
50' Pt		157	-6.2	✓
X	188+50			
50' Pt		15.6	-6.1	✓
23' Pt		14.2	-4.7	✓
3' Pt		12.6	-3.1	✓
2		88	0.7	✓
6' Pt		45	5.0	✓
23' Pt		32	6.3	✓
50' Pt		33	6.4	✓

TP	324	9.55 11.46	193	7.62
	189+00		11.5	
50 RT			0.7	10.8 ✓
40 RT			5.3	6.7 ✓
23 RT			5.9	5.6 ✓
7 RT			6.4	5.1 ✓
1/2			12.3	-0.8 ✓
3 1/2			14.2	-2.7 ✓
23 1/2			16.6	-5.1 ✓
50 1/2			17.4	-5.9 ✓
	189+50			
50 1/2			17.4	-5.9 ✓
23 1/2			16.5	-5.0 ✓
5 1/2			14.7	-3.7 ✓
1/2			7.4	4.1 ✓
2 RT			6.2	5.3 ✓
23 RT			5.8	5.7 ✓
50 RT			4.7	6.8 ✓
	190+0			
50 RT			5.4	6.1 ✓
23 RT			5.9	5.6 ✓
6 RT			6.6	4.9 ✓
1/2			12.1	-1.1 ✓
2 1/2			13.9	-2.4 ✓
23 1/2			14.9	-5.2 ✓
50 1/2			19.9	-6.7 ✓

	11.46	11.5	
x	190 + 3754 - 8.0	11.5	45
			See Page 46
50 RT		17.6	-6.1 ✓
23 RT		16.9	-5.2 ✓
1/2		13.5	-2.0 ✓
5 RT		7.2	4.3 ✓
23 RT		5.8	5.7 ✓
50 RT		5.5	6.0 ✓
	x		
	190 + 50 = Prop Cube = Center of Series		
50 RT		5.3	6.7 ✓
23 RT		6.1	5.2 ✓
10 RT		6.2	5.3 ✓
1/2		12.3	-0.8 ✓
2 1/2		13.7	-4.4 ✓
23 1/2		16.9	-5.2 ✓
50 1/2		17.7	-6.7 ✓
	x		
	191+0		
50 1/2		17.8	-6.3 ✓
23 1/2		17.2	-5.7 ✓
2 1/2		15.4	-3.9 ✓
1/2		13.4	-1.9 ✓
6 RT		6.6	4.9 ✓
23 RT		6.0	5.5 ✓
50 RT		5.8	5.7 ✓
	x		
	191+50		
50 RT		5.6	5.9 ✓
23 RT		5.6	5.9 ✓

	11.46	11.55	
2' Pt		73	4.7 ✓
1/2		126	-1.1 ✓
4' H		152	-3.7 ✓
23' H		167	-5.7 ✓
50' H		176	-6.1 ✓
	X 192+10		
50' H		176	-6.1 ✓
23' H		170	-5.5 ✓
1/2		152	-3.7 ✓
5' Pt		82	3.3 ✓
12' Pt		63	5.7 ✓
23' Pt		61	5.4 ✓
50' Pt		58	5.7 ✓
	X 192+50		
50' Pt		59	5.6 ✓
23' Pt		59	5.6 ✓
13' Pt		67	4.8 ✓
9' Pt		146	-3.1 ✓
1/2		150	-3.5 ✓
22' H		173	-5.8 ✓
50' H		176	-6.1 ✓
	X 192+10		
50' H		177	-6.2 ✓
23' H		172	-5.7 ✓
1/2		150	-3.5 ✓
6' Pt		142	-2.7 ✓

	11.46	11.55		46
12' Pt		73	4.7 ✓	
23' Pt		58	5.7 ✓	
50' Pt		51	6.4 ✓	
	X 192+50			
50' Pt		53	6.2 ✓	
23' Pt		61	5.4 ✓	
19' Pt		72	4.3 ✓	
14' Pt		140	-4.5 ✓	
1/2		152	-3.7 ✓	
23' H		170	-5.5 ✓	
50' H		176	-6.1 ✓	
	X 192+10			
50' H		176	-6.1 ✓	
23' H		170	-5.5 ✓	
1/2		153	-3.8 ✓	
16' Pt		132	-1.7 ✓	
23' Pt		67	4.8 ✓	
50' Pt		59	5.6 ✓	
	X 192+50			
50' Pt		54	6.1 ✓	
30' Pt		65	5.0 ✓	
23' Pt		116	-0.1 ✓	
17' Pt		142	-2.7 ✓	
1/2		152	-3.8 ✓	
23' H		170	-5.5 ✓	
50' H		176	-6.1 ✓	

	11.46	11.5		
	x 195+0			
50 H		177	-6.2	✓
23 H		168	-5.3	✓
2		148	-3.3	✓
23 Pt		138	-2.3	✓
27 Pt		69	4.6	✓
50 Pt		55	6.0	✓
	x 195+50			
50 Pt		56	5.9	✓
28 Pt		64	5.1	✓
23 Pt		111	0.2	✓
10 Pt		139	-2.2	✓
2		152	-3.7	✓
23 H		16.7	-5.2	✓
50 H		174	-5.9	✓
	x 195+80 = Pop Culture			
50 H		174	-5.9	✓
23 H		170	-5.5	✓
2		147	-3.2	✓
17 Pt		134	-1.9	✓
23 Pt		65	5.0	✓
50 Pt		53	6.2	✓
	x 196+0			
50 Pt		53	6.2	✓
23 Pt		65	5.0	✓
20 Pt		122	-1.2	✓

	11.46	11.5		
				47
16 Pt		142	-2.7	✓
2		149	-3.4	✓
23 H		171	-5.6	✓
50 H		175	-6.0	✓
	x 196+50			
50 H		174	-5.9	✓
23 H		166	-5.1	✓
2		150	-3.5	✓
20 Pt		140	-2.5	✓
23 Pt		72	4.3	✓
50 Pt		59	5.8	✓
	x 197+0			
50 Pt		71	4.4	✓
40 Pt		59	5.6	✓
27 Pt		70	4.5	✓
23 Pt		113	0.3	✓
15 Pt		139	-2.2	✓
2		149	-3.4	✓
23 H		168	-5.3	✓
50 H		175	-6.0	✓
	x 197+50			
50 H		175	-6.0	✓
23 H		166	-5.1	✓
2		148	-3.3	✓
18 Pt		140	-2.5	✓
23 Pt		72	4.3	✓

	1146	11.5		
15 P		57	5.8	✓
50 P		78	3.7	✓
TP	413	997	5.8	
	19970	10.0		
50 P		66	3.4	✓
41 P		45	5.5	✓
28 P		43	5.7	✓
23 P		70	3.0	✓
15 P		121	-2.1	✓
8		133	-3.3	✓
23 H		152	-5.2	✓
50 H		163	-6.3	✓
	19970			
50 H		161	-6.1	✓
23 H		149	-4.9	✓
8		129	-2.9	✓
18 P		111	-1.1	✓
23 P		53	4.7	✓
40 P		46	5.4	✓
50 P		77	2.3	✓
	19970			
50 P		46	2.1	✓
15 P		70	3.0	✓
10 P		16	5.4	✓
23 P		51	4.9	✓
18 P		13	3.7	✓

	997	10.0		
12 P		122	-2.2	✓
8		127	-2.7	✓
33 P		141	-4.1	✓
50 H		153	-5.3	✓
	199750			
50 H		156	-5.6	✓
33 H		141	-4.1	✓
8		127	-2.7	✓
12 P		112	-1.3	✓
18 P		56	4.4	✓
23 P		46	5.4	✓
36 P		44	5.6	✓
11 P		73	2.7	✓
50 P		74	2.6	✓
	20170			
50 P		1.3	3.7	✓
10 P		65	3.5	✓
33 P		43	5.7	✓
23 P		45	5.5	✓
15 P		57	4.3	✓
9 P		111	-1.1	✓
8		122	-2.2	✓
23 H		138	-3.8	✓
50 H		157	-5.7	✓

	9.97	10.0		
50 ft	200+150	156	-5.6	✓
33 ft		138	-3.8	✓
8		115	-1.5	✓
8 ft		80	2.0	✓
15 ft		52	4.8	✓
33 ft		42	5.8	✓
30 ft		42	5.8	✓
35 ft		54	4.6	✓
50 ft		51	4.9	✓
	x 200+75 Pipe Culvert			
50 ft		46	5.4	✓
35 ft		51	4.9	✓
30 ft		42	5.8	✓
33 ft		41	5.9	✓
12 ft		47	5.3	✓
5 ft		70	3.0	✓
8		62	3.8	✓
3 ft		62	3.8	✓
7 ft		121	-2.1	✓
33 ft		123	-3.3	✓
50 ft		155	-5.5	✓
	x 30/10			
50 ft		155	-5.5	✓
33 ft		134	-3.4	✓
7 ft		125	-2.5	✓

	9.97	10.0		
8		78	0.2	✓
11 ft		51	4.9	✓
33 ft		41	5.9	✓
50 ft		44	5.6	✓
	x 201+150			
50 ft		33	6.7	✓
33 ft		42	5.8	✓
7 ft		55	4.5	✓
8		81	1.9	✓
8 ft		114	-1.4	✓
33 ft		131	-3.1	✓
50 ft		152	-5.2	✓
	x 302+10			
50 ft		151	-5.1	✓
33 ft		126	-2.6	✓
12 ft		118	-1.8	✓
10 ft		60	4.0	✓
8		55	4.5	✓
33 ft		41	5.9	✓
50 ft		27	7.3	✓
	x 202+150 = 1/4 of Pipe			
50 ft		29	7.1	✓
33 ft		38	6.2	✓
1 ft		41	5.6	✓
8		62	3.7	✓
15 ft		66	3.4	✓

	9.97	10.0		
18 Lt		109	-0.9	✓
23 Lt		118	-1.8	✓
50 Lt		140	-4.0	✓
	x			
	202+10			
50 Lt		121	-2.1	✓
22 Lt		111	-1.1	✓
20 Lt		109	-0.9	✓
17 Lt		84	1.6	✓
6 Lt		78	2.2	✓
1 Lt		51	4.9	✓
10 Rt		38	6.2	✓
23 Rt		41	5.9	✓
50 Rt		21	7.9	✓
	x			
	203+50			
50 Rt		11	8.9	✓
23 Rt		38	6.2	✓
15 Rt		47	5.3	✓
10 Rt		26	6.4	✓
7 Lt		43	5.7	✓
10 Lt		82	1.8	✓
23 Lt		99	0.1	✓
50 Lt		114	-1.4	✓
	x			
	204+10			
50 Lt		123	-2.3	✓
23 Lt		107	-0.7	✓
12 Lt		92	0.7	✓

	9.97	10.0		
5 Lt		46	5.4	✓
2 Lt		39	6.1	✓
23 Rt		32	6.8	✓
50 Rt		0.6	9.2	✓
	x			
	207+50			
50 Rt		12	8.8	✓
23 Rt		40	6.0	✓
2 Lt		35	6.5	✓
8 Lt		46	5.4	✓
19 Lt		104	-0.4	✓
23 Lt		106	-0.6	✓
50 Lt		125	-2.5	✓
	x			
	205+0			
50 Lt		126	-2.6	✓
23 Lt		99	0.1	✓
14 Lt		79	2.1	✓
6 Lt		40	6.0	✓
2 Lt		32	6.7	✓
11 Rt		36	6.2	✓
15 Rt		48	5.2	✓
23 Rt		46	5.2	✓
50 Rt		17	8.3	✓
	x			
	205+58.34 = FC			
50 Rt		0.0	10.0	✓
40 Rt		49	5.1	✓
23 Rt		52	4.8	✓

	997	10.0	
15.91	54	4.6	✓
8.91	34	6.6	✓
2 02.405	217	(6.83) 6.80	
JP. 582	11.82	6.80	0.1 2.405 EC
8.6	58	6.0	✓
19.6	103	1.5	✓
23.4	112	0.6	✓
50.6	131	-1.3	✓
	206.50		
50.11	11.5	0.3	✓
23.4	10.3	1.5	✓
18.4	90	2.8	✓
9.4	61	5.7	✓
6	50	6.8	✓
9.91	53	6.5	✓
15.91	76	4.2	✓
23.91	74	2.4	✓
50.91	62	5.6	✓
	206.50		
50.91	64	5.4	✓
23.91	71	2.2	✓
18.91	76	2.2	✓
9.91	54	6.2	✓
5	19	6.9	✓
16.4	58	6.0	✓
17.6	32	2.6	✓

	11.82	11.8		51
23.4	9.9	1.0	✓	
50.11	11.4	0.4	✓	
	209.40			
50.11	11.5	0.3	✓	
23.4	10.7	1.1	✓	
16.4	9.3	2.5	✓	
10.11	5.9	5.9	✓	
8	4.7	7.1	✓	
9.91	5.5	6.3	✓	
19.91	8.3	3.5	✓	
23.91	8.1	3.4	✓	
50.91	6.8	5.0	✓	
	207.40.82 = 206.73/100	0.14 EC		
5	4.77	7.03		
8.11	5.24	6.48		

W Jupiter St Cross Section
100' East & West of Atlantic St

Indexed
C.S.K.

14.76

14.76

3-1-33
Moore
S. 2007

52

BM	4.75	14.76	14.76	10.015	NEBP Jupiter & Atlantic
					100' E of E.L. Atlantic 108' W
H. Cb	129.150	2.88	11.84	✓	
52.5	07 Paving	2.77	11.99	✓	
104.5	" "	2.62	12.12	✓	
156.5	" "	2.49	12.27	✓	
208.5	" "	2.27	12.39	✓	
260.5	" "	2.05	12.41	✓	
312.5	" "	2.41	12.35	✓	
364.5	" "	2.55	12.21	✓	
416.5	" "	2.68	12.08	✓	
468.5	" "	2.87	11.89	✓	
52.5	S Cb Gutter	3.02	11.72	✓	
	Top Cb	2.36	12.40	✓	
					90' E of E.L. Atlantic
H. Cb Top		2.54	12.22	✓	
Gutter 07 Paving		3.05	11.71	✓	
52.5	" "	2.96	11.80	✓	
104.5	" "	2.87	11.89	✓	
156.5	" "	2.78	11.98	✓	
208.5	" "	2.62	12.13	✓	
260.5	" "	2.61	12.15	✓	
312.5	" "	2.64	12.12	✓	
364.5	" "	2.74	12.02	✓	
416.5	" "	2.90	11.86	✓	

468.5	07 Paving	3.09	11.67	✓	
52.5	S Cb Gutter	2.24	11.52	✓	
	Top Cb	2.60	12.16	✓	
					80' E
H. Cb Top		2.77	11.99	✓	
Gutter 07 Paving		3.28	11.48	✓	
52.5	" "	3.25	11.51	✓	
104.5	" "	3.13	11.63	✓	
156.5	" "	3.04	11.74	✓	
208.5	" "	2.93	11.83	✓	
260.5	" "	2.90	11.86	✓	
312.5	" "	2.93	11.83	✓	
364.5	" "	3.05	11.71	✓	
416.5	" "	3.20	11.52	✓	
468.5	" "	3.34	11.42	✓	
52.5	Gutter	3.51	11.25	✓	
S Cb Top		2.84	11.92	✓	
					70' E
H. Cb Top		2.97	11.79	✓	
Gutter 07 Paving		3.52	11.22	✓	
52.5	" "	3.49	11.27	✓	
104.5	" "	3.39	11.37	✓	
156.5	" "	3.28	11.48	✓	
208.5	" "	3.14	11.62	✓	
260.5	" "	3.10	11.66	✓	
312.5	" "	3.14	11.62	✓	

Saniper St.

1476

1476

364'S on Pavng	321	11.50	✓
41.6'S	340	11.36	✓
46.8'S	357	11.19	✓
52.5 Gutter	373	11.03	✓
5 cb Top	311	11.65	✓

60'F

H cb Top	321	11.55	✓
Gutter	376	11.00	✓
52'S	373	11.03	✓
104'S	360	11.16	✓
156'S	350	11.16	✓
20.8'S	338	11.38	✓
26.5 - 2	332	11.24	✓
31.2'S	337	11.39	✓
364'S	352	11.43	✓
41.6'S	367	11.09	✓
46.8'S	385	10.91	✓
52.5 Gutter	399	10.77	✓
5 cb Top	334	11.44	✓

50'F

H cb Top	350	11.26	✓
Gutter	403	10.73	✓
52'S	398	10.78	✓
104'S	387	10.89	✓
156'S	397	10.99	✓
20.8'S	365	11.11	✓

1476

1476

53

26.5 - 2	360	11.16	✓
31.2'S	369	11.07	✓
364'S	377	10.99	✓
41.6'S	391	10.85	✓
46.8'S	408	10.68	✓
52.5 Gutter	428	10.48	✓
5 cb Top	358	11.18	✓

40'F

H cb Top	378	10.98	✓
Gutter	433	10.43	✓
52'S	427	10.49	✓
104'S	410	10.66	✓
156'S	403	10.73	✓
20.8'S	390	10.86	✓
26.5 - 2	384	10.94	✓
31.2'S	389	10.87	✓
364'S	399	10.77	✓
41.6'S	411	10.65	✓
46.8'S	427	10.49	✓
52.5 Gutter	426	10.30	✓
5 cb Top	381	10.95	✓

30'F

H cb Top	402	10.74	✓
Gutter	457	10.17	✓
52'S	448	10.28	✓
104'S	433	10.43	✓

Juniper St

14.76

14.76

15.61	4.22	10.52	✓
20.8'S	4.10	10.66	✓
26'S	4.09	10.67	✓
31.2'S	4.15	10.61	✓
36.4'S	4.25	10.51	✓
41.6'S	4.38	10.38	✓
46.8'S	4.54	10.24	✓
52'S Gutter	4.72	10.02	✓
Scb Top	4.06	10.70	✓
20' E			
H cb Top	4.27	10.49	✓
Gutter	4.88	9.88	✓
5.2'S	4.74	10.02	✓
10.4'S	4.60	10.16	✓
15.6'S	4.49	10.27	✓
20.8'S	4.35	10.41	✓
26'S	4.31	10.25	✓
31.2'S	4.35	10.21	✓
36.4'S	4.47	10.29	✓
41.6'S	4.62	10.14	✓
46.8'S	4.78	9.98	✓
52'S Gutter	4.95	9.81	✓
Scb Top	4.37	10.39	✓
16' E - Prop Ch. Red. BC.			
H cb Top	4.48	10.28	✓
Gutter	5.03	9.73	✓

14.76

14.76

5.2'S	4.96	9.80	✓
10.4'S	4.80	9.96	✓
15.6'S	4.63	10.08	✓
20.8'S	4.58	10.18	✓
26'S	4.53	10.23	✓
31.2'S	4.51	10.25	✓
36.4'S	4.62	10.13	✓
41.6'S	4.76	10.00	✓
46.8'S	4.94	9.82	✓
52'S Gutter	5.10	9.66	✓
Scb Top	4.59	10.17	✓
E.L. Atlantic St. 108' side			
H cb Top	5.01	10.01	
Gutter	5.29	9.57	✓
5.2'S	5.20	9.56	✓
10.4'S	5.05	9.71	✓
15.6'S	4.92	9.82	✓
20.8'S	4.81	9.95	✓
26'S	4.75	10.01	✓
31.2'S	4.77	9.99	✓
36.4'S	4.88	9.88	✓
41.6'S	4.98	9.78	✓
46.8'S	5.15	9.61	✓
52'S Gutter	5.27	9.49	✓

54

Juniper St.

14.76

14.76

14' W of E.L. Atlantic

N.C. Gutter or Pav. 199	536	9.20 ✓
52'S	526	9.50 ✓
104'S	509	9.67 ✓
156'S	499	9.77 ✓
208'S	489	9.87 ✓
260'S-2	482	9.92 ✓
312'S	483	9.93 ✓
364'S	493	9.83 ✓
416'S	505	9.71 ✓
468'S	523	9.53 ✓
525'S Gutter	504	9.72 ✓ <i>Photo 935</i>

9' W of E.L. Atlantic

N.C. Gutter	543	9.33 ✓
52'S	533	9.43 ✓
104'S	519	9.57 ✓
156'S	508	9.68 ✓
208'S	500	9.76 ✓
260'S-2	492	9.83 ✓
312'S	492	9.83 ✓
364'S	500	9.76 ✓
416'S	512	9.62 ✓
468'S	527	9.49 ✓
525'S Gutter	449	10.27 ✓ <i>should be 9.27 corrections</i>

14.76

14.76

14' W of E.L. Atlantic

55

N.C. - 0.9 Gutter	5550	9.26 ✓
N.C.	550	9.26 ✓
52'S	540	9.36 ✓
104'S	521	9.50 ✓
156'S	515	9.61 ✓
208'S	508	9.68 ✓
260'S-2	502	9.72 ✓
312'S	500	9.76 ✓
364'S	504	9.74 ✓
416'S	519	9.57 ✓
468'S	538	9.38 ✓
525'S-6	562	9.12 ✓
537'S Gutter	562	9.12 ✓
20' W		9.92 ✓
Top	182	9.39 ✓
N.L. Juniper or Pav. 199	527	9.29 ✓
51	547	9.29 ✓
104	560	9.16 ✓
148	569	9.07 ✓
192	554	9.24 ✓
240	536	9.40 ✓
291'S	521	9.55 ✓
348'S	512	9.62 ✓
405'S	507	9.69 ✓
452'S	502	9.69 ✓
504'S	515	9.61 ✓

Juniper St

1476

1476

55.1	on Pav 129	5.30	9.46	✓
60.8	" "	4.48	10.28	✓
66.5	SCB "	5.59	9.17	✓
70.5	" "	5.57	9.19	✓
75.5	" "	5.51	9.25	✓
80.5	SL Gutter on Pav	5.42	9.34	✓
	Top Ch	4.82	9.92	✓
24" W of FL Atlantic				
N.L.	on Pav 129	5.42	9.34	✓
5.5	" "	5.56	9.70	✓
10.5	" "	5.72	9.02	✓
14.5	" "	5.78	8.98	✓
19.2.5	" "	5.60	9.16	✓
24.4.5	" "	5.38	9.38	✓
29.6.5	" "	5.23	9.53	✓
34.8.5	" "	5.11	9.65	✓
40.5	SL "	5.08	9.68	✓
45.2.5	" "	5.12	9.62	✓
50.4.5	" "	5.23	9.53	✓
55.6.5	" "	5.40	9.36	✓
60.8.5	" "	5.55	9.71	✓
66.5	SCB "	5.60	9.16	✓
70.5	" "	5.57	9.19	✓
75.5	" "	5.54	9.22	✓
80.5	SL "	5.49	9.27	✓

1476

29.11

1476

56

N.L.		5.44	9.32	✓
5.5		5.66	9.10	✓
10.5		5.82	8.92	✓
14.5		5.86	8.90	✓
19.2.5		5.60	9.16	✓
24.4.5		5.40	9.36	✓
29.6.5		5.29	9.47	✓
34.8.5		5.21	9.55	✓
40.5	SL *	5.20	9.52	✓
45.2.5		5.23	9.53	✓
50.4.5		5.35	9.41	✓
55.6.5		5.50	9.26	✓
60.8.5		5.62	9.13	✓
66.5		5.62	9.12	✓
70.5		5.58	9.18	✓
75.5		5.55	9.21	✓
80.5	SL	5.49	9.27	✓
34" W - E Edge 40 Strip				
N.L.		5.51	9.25	✓
5.5		5.67	9.09	✓
10.5		5.80	8.96	✓
14.5		5.88	8.88	✓
19.2.5		5.71	9.02	✓
24.4.5		5.53	9.13	✓
29.6.5		5.32	9.38	✓

Suniper St

14.76

~~14.76~~

5.33

9.63 ✓

9.25 ✓

9.41 ✓

9.31 ✓

9.16 ✓

9.07 ✓

9.10 ✓

9.14 ✓

9.20 ✓

9.26 ✓

39% of E.L.

11.1

5.54

9.2 ✓

5.5

5.70

9.06 ✓

10.5

5.80

6.96 ✓

14.5

5.89

8.87 ✓

19.25

5.84

8.94 ✓

24.15

5.63

9.13 ✓

29.65

5.48

9.28 ✓

34.85

5.43

9.33 ✓

40.55

5.41

9.35 ✓

45.25

5.48

9.28 ✓

50.45

5.60

9.16 ✓

55.65

5.73

9.03 ✓

60.85

5.76

9.00 ✓

66.5

5.69

9.07 ✓

70.5

5.65

9.11 ✓

14.76

~~14.76~~

5.58

9.18 ✓

57

75.5

5.53

9.23 ✓

80.5-52

44.21

11.1

5.57

9.19 ✓

5.5

5.67

9.09 ✓

10.5

5.81

8.95 ✓

14.5

5.88

8.88 ✓

19.25

5.92

8.62 ✓

24.15

5.75

9.01 ✓

29.65

5.59

9.17 ✓

34.85

5.51

9.25 ✓

40.55

5.50

9.26 ✓

45.25

5.55

9.21 ✓

50.45

5.69

9.07 ✓

55.65

5.81

8.95 ✓

60.85

5.81

8.95 ✓

66.5

5.81

9.02 ✓

70.5

5.72

9.08 ✓

75.5

5.68

9.15 ✓

80.5-52

5.61

9.21 ✓

49.21

5.55

11.1

5.55

9.19 ✓

5.5

5.57

9.03 ✓

10.5

5.73

8.93 ✓

14.5

5.83

8.86 ✓

19.25

5.90

8.77 ✓

5.99

Suniper St.

14.76

14.76

211'S	593	8.83 ✓
296'S	571	9.05 ✓
348'S	564	9.14 ✓
405 = 2	561	9.15 ✓
452'S	563	9.13 ✓
504'S	573	9.03 ✓
556'S	588	8.88 ✓
608'S	583	8.93 ✓
665	576	9.00 ✓
705	570	9.06 ✓
755	564	9.17 ✓
805 = 52	558	9.18 ✓
54' W to Atlantic		
112	563	9.13 ✓
55	576	9.00 ✓
105	587	8.89 ✓
145	593	8.83 ✓
192'S	601	8.75 ✓
244'S	599	8.77 ✓
296'S	581	8.95 ✓
348'S	570	9.06 ✓
405 = 2	570	9.06 ✓
452'S	573	9.03 ✓
504'S	583	8.93 ✓
556'S	592	8.84 ✓
608'S	590	8.86 ✓

14.76

14.76

665	583	8.93 ✓	58
705	577	8.99 ✓	
755	573	9.03 ✓	
805 = 52	567	9.09 ✓	
59' W			
112	570	9.06 ✓	
55	583	8.93 ✓	
105	591	8.85 ✓	
145	597	8.79 ✓	
192'S	605	8.71 ✓	
244'S	611	8.65 ✓	
296'S	596	8.80 ✓	
348'S	590	8.96 ✓	
405 = 2	580	8.96 ✓	
452'S	583	8.93 ✓	
504'S	594	8.82 ✓	
556'S	599	8.77 ✓	
608'S	596	8.80 ✓	
665	591	8.85 ✓	
705	586	8.90 ✓	
755	582	8.94 ✓	
805 = 52	574	9.0 ✓	
14' W			
112	584	8.92 ✓	
55	593	8.83 ✓	
105	600	8.76 ✓	

Juniper St.

	14.76	14.76		
87.115	6.04	8.72	✓	
192.5	6.08	8.68	✓	
214.5	6.16	8.60	✓	
291.5	6.00	8.76	✓	
348.5	5.88	8.88	✓	
40.5 - 1/2	5.89	8.87	✓	
452.5	5.94	8.82	✓	
504.5	6.04	8.72	✓	
556.5	6.07	8.69	✓	
608.5	6.03	8.73	✓	
66.5	6.08	8.68	✓	
70.5	5.95	8.81	✓	
75.5	5.88	8.88	✓	
80.5 - 5/8	5.84	8.92	✓	
	6.92			
11.1	5.94	8.82	✓	
5.5	6.00	8.76	✓	
10.5	6.05	8.71	✓	
14.5	6.10	8.66	✓	
192.5	6.14	8.62	✓	
214.5	6.17	8.59	✓	
296.5	6.14	8.64	✓	
348.5	5.99	8.79	✓	
40.5 - 1/2	5.96	8.80	✓	
452.5	6.05	8.71	✓	
504.5	6.16	8.60	✓	

	14.76	14.76		
55.15	6.12	8.63	✓	59
60.85	6.10	8.66	✓	
66.5	6.07	8.69	✓	
70.5	6.05	8.71	✓	
75.5	6.00	8.76	✓	
80.5 - 5/8	5.98	8.78	✓	
	7.92 = 11 Edge 40 Stop			
11.1	6.08	8.68	✓	
5.5	6.15	8.61	✓	
10.5	6.17	8.59	✓	
14.5	6.18	8.58	✓	
192.5	6.21	8.55	✓	
214.5	6.22	8.52	✓	
296.5	6.23	8.53	✓	
348.5	6.09	8.67	✓	
40.5 - 1/2	6.07	8.69	✓	
452.5	6.13	8.63	✓	
504.5	6.21	8.55	✓	
556.5	6.20	8.56	✓	
608.5	6.19	8.57	✓	
66.5	6.17	8.59	✓	
70.5	6.15	8.61	✓	
75.5	6.11	8.65	✓	
80.5 - 5/8	6.13	8.63	✓	
	7.92			
11.1	6.24	8.52	✓	

Suniper St

14.76

14.76

07.55	6.26	8.50 ✓
10.5	6.25	8.51 ✓
14.5	6.25	8.51 ✓
19.25	6.24	8.54 ✓
24.45	6.23	8.53 ✓
29.65	6.25	8.51 ✓
34.85	6.20	8.56 ✓
40.5 = 2	6.15	8.61 ✓
45.25	6.22	8.52 ✓
50.45	6.25	8.51 ✓
55.65	6.27	8.49 ✓
60.85	6.26	8.50 ✓
66.5	6.25	8.51 ✓
70.5	6.23	8.53 ✓
75.5	6.23	8.53 ✓
80.5 = 5.6	6.23	8.48 ✓
84.5	6.21	8.55 ✓
11.6	6.25	8.51 ✓
5.5	6.26	8.50 ✓
10.5	6.26	8.50 ✓
14.5	6.27	8.49 ✓
19.25	6.27	8.49 ✓
24.45	6.29	8.47 ✓
29.65	6.30	8.46 ✓
34.85	6.25	8.51 ✓
40.5 = 2		

14.76

14.76

45.25	6.31	8.45 ✓	60
50.45	6.30	8.46 ✓	
55.65	6.29	8.47 ✓	
60.5	6.28	8.48 ✓	
66.5	6.28	8.48 ✓	
70.5	6.20	8.46 ✓	
75.5	6.27	8.45 ✓	
80.5 = 5.6	6.22	8.52 ✓	
89.5			
11.6	6.11	8.65 ✓	
5.5	6.15	8.61 ✓	
10.5	6.23	8.53 ✓	
14.5	6.27	8.49 ✓	
19.25	6.29	8.47 ✓	
24.45	6.31	8.45 ✓	
29.65	6.34	8.44 ✓	
34.85	6.27	8.39 ✓	
40.5 = 2	6.35	8.41 ✓	
45.25	6.34	8.44 ✓	
50.45	6.34	8.44 ✓	
55.65	6.33	8.53 ✓	
60.85	6.32	8.42 ✓	
66.5	6.28	8.48 ✓	
70.5	6.23	8.53 ✓	
75.5	6.16	8.60 ✓	
80.5 = 5.6	6.13	8.65 ✓	

Suniper St.

14.76

14.76

Time	94W	14.76		
12		6.02	8.73	✓
5.5		6.11	8.65	✓
10.5		6.18	8.58	✓
14.5		6.22	8.53	✓
19.25		6.30	8.46	✓
24.15		6.36	8.40	✓
29.65		6.38	8.38	✓
34.85		6.41	8.35	✓
40.5-2		6.41	8.35	✓
45.24		6.42	8.34	✓
50.45		6.41	8.35	✓
55.65		6.36	8.40	✓
60.85		6.29	8.47	✓
66.5		6.21	8.55	✓
70.5		6.15	8.61	✓
75.5		6.08	8.68	✓
80.5		6.03	8.73	✓
	100' N - HCB/H/No. 10			
H.L. Taple		5.83	8.93	✓
H.L. Paxing		5.90	8.86	✓
5.5		6.01	8.75	✓
10.5		6.12	8.62	✓
14.5		6.21	8.55	✓
19.25		6.30	8.46	✓
24.15		6.40	8.36	✓

14.76

14.76

Time	104' N	14.76		
29.65		6.45	8.31	✓
34.85		6.47	8.29	✓
40.5-2		6.45	8.31	✓
45.24		6.48	8.28	✓
50.45		6.46	8.30	✓
55.65		6.42	8.34	✓
60.85		6.32	8.44	✓
66.5		6.22	8.54	✓
70.5		6.14	8.64	✓
75.5		6.04	8.74	✓
80.5		5.92	8.84	✓
	104' N			
12		5.84	8.94	✓
5.5		5.96	8.80	✓
10.5		6.07	8.69	✓
14.5		6.17	8.59	✓
19.25		6.30	8.46	✓
24.15		6.40	8.36	✓
29.65		6.52	8.24	✓
34.85		6.57	8.19	✓
40.5-2		6.60	8.16	✓
45.25		6.59	8.17	✓
50.45		6.53	8.23	✓
55.65		6.47	8.29	✓
60.85		6.39	8.37	✓
66.5		6.26	8.50	✓

61

Suniper St.

14.76

14.76

70'S		6.19	8.57	✓
75'S		6.10	8.66	✓
80'S = SL		6.00	8.76	✓
	108' N of N.L. Atlantic			
NL		5.93	8.83	✓
5'S		6.08	8.88	✓
10'S		6.14	8.92	✓
14'S		6.24	8.97	✓
19.2'S		6.35	8.4	✓
24.4'S		6.47	8.19	✓
29.6'S		6.56	8.10	✓
34.8'S		6.65	8.11	✓
40'S = S		6.69	8.07	✓
45.2'S		6.66	8.10	✓
50.4'S		6.59	8.17	✓
55.6'S		6.53	8.23	✓
60.8'S		6.45	8.31	✓
66'S		6.38	8.38	✓
70'S		6.29	8.47	✓
75'S		6.20	8.56	✓
80'S = SL		6.09	8.68	✓
	10' N of N.L. Atlantic			
NL	07 Paving	6.29	8.47	✓
5'S	" "	6.33	8.43	✓
10'S	" "	6.40	8.36	✓
14'S	" "	6.47	8.29	✓

14.76

14.76

19.2'S	07 Paving	6.56	8.10	✓	62
24.4'S	" "	6.63	8.13	✓	
29.6'S	" "	6.73	8.03	✓	
34.8'S	" "	6.80	7.96	✓	
40'S = S	" "	6.87	7.89	✓	
45.2'S	" "	6.83	7.93	✓	
50.4'S	" "	6.78	7.98	✓	
55.6'S	" "	6.73	8.03	✓	
60.8'S	" "	6.64	8.14	✓	
66'S	" "	6.55	8.21	✓	
70'S	" "	6.49	8.27	✓	
75'S	" "	6.42	8.32	✓	
80'S = SL	" "	6.35	8.41	✓	
	20' N of N.L. Atlantic				
NL	07 Paving	6.52	8.12	✓	
5'S	" "	6.61	8.15	✓	
10'S	" "	6.67	8.09	✓	
14'S	" "	6.72	8.04	✓	
19.2'S	" "	6.80	7.96	✓	
24.4'S	" "	6.86	7.90	✓	
29.6'S	" "	6.96	7.80	✓	
34.8'S	" "	7.03	7.73	✓	
40'S = S	" "	7.10	7.66	✓	
45.2'S	" "	7.05	7.71	✓	
50.4'S	" "	7.00	7.76	✓	
55.6'S	" "	6.92	7.82	✓	

Sun/por St.

14.76

~~14.76~~

66.8V	27 Paving	6.88	7.88	✓
66.5	"	6.82	7.94	✓
70.5	"	6.74	8.04	✓
75.5	"	6.65	8.11	✓
80.5-56	"	6.57	8.19	✓
30.77				
NL		6.82	7.94	✓
5.5		6.87	7.89	✓
10.5		6.93	7.83	✓
14.5		7.00	7.76	✓
19.2.5		7.02	7.74	✓
24.4.5		7.06	7.70	✓
29.6.5		7.13	7.63	✓
34.8.5		7.19	7.57	✓
40.5-2		7.26	7.50	✓
45.8.5		7.23	7.53	✓
50.4.5		7.17	7.59	✓
55.6.5		7.13	7.63	✓
60.8.5		7.06	7.70	✓
66.5		7.00	7.76	✓
70.5		6.95	7.81	✓
75.5		6.87	7.89	✓
80.5-56		6.80	7.96	✓
40.77				
NL		7.02	7.74	✓
5.5		7.10	7.66	✓

14.76

~~14.76~~

16.5		7.14	7.62	✓
14.5		7.19	7.57	✓
19.2.5		7.25	7.51	✓
24.4.5		7.30	7.46	✓
29.6.5		7.35	7.41	✓
34.8.5		7.42	7.34	✓
40.5-2		7.47	7.29	✓
45.8.5		7.43	7.33	✓
50.4.5		7.26	7.40	✓
55.6.5		7.30	7.46	✓
60.8.5		7.26	7.50	✓
66.5		7.20	7.56	✓
70.5		7.16	7.60	✓
75.5		7.09	7.67	✓
80.5-56		7.03	7.73	✓
50.77				
NL		7.23	7.53	✓
5.5		7.30	7.46	✓
10.5		7.28	7.38	✓
14.5		7.41	7.35	✓
19.2.5		7.47	7.29	✓
24.4.5		7.50	7.26	✓
29.6.5		7.56	7.20	✓
34.8.5		7.63	7.13	✓
40.5-2		7.70	7.06	✓
45.8.5		7.65	7.11	✓

63

Soniper St.

14.76

~~14.76~~

50.4'S	7.59	7.17	✓
55.6'S	7.53	7.43	✓
60.8'S	7.49	7.27	✓
66.5'	7.43	7.33	✓
70.5'	7.35	7.41	✓
75.5'	7.30	7.46	✓
80.5' - SL	7.23	7.53	✓
60.0'			
11.4	7.44	7.32	✓
5.5'	7.53	7.43	✓
10.5'	7.56	7.40	✓
14.5'	7.62	7.14	✓
19.25'	7.65	7.11	✓
24.4'S	7.71	7.05	✓
29.6'S	7.75	7.01	✓
34.8'S	7.83	6.93	✓
40.5' - L	7.88	6.88	✓
45.25'	7.85	6.91	✓
50.4'S	7.78	6.98	✓
55.6'S	7.72	7.04	✓
60.8'S	7.69	7.07	✓
66.5'	7.61	7.15	✓
70.5'	7.57	7.19	✓
75.5'	7.52	7.24	✓
80.5' - SL	7.45	7.31	✓

14.76

64

70.0'

~~14.76~~

11.4	7.65	7.11	✓
5.5'	7.71	7.05	✓
10.5'	7.76	7.00	✓
14.5'	7.82	6.92	✓
19.25'	7.86	6.90	✓
24.4'S	7.90	6.86	✓
29.6'S	7.94	6.84	✓
34.8'S	8.02	6.74	✓
40.5' - L	8.06	6.70	✓
45.25'	8.01	6.75	✓
50.4'S	7.94	6.84	✓
55.6'S	7.89	6.87	✓
60.8'S	7.85	6.91	✓
66.5'	7.80	6.96	✓
70.5'	7.75	7.01	✓
75.5'	7.70	7.06	✓
80.5' - SL	7.64	7.14	✓
80.0'			
11.4	7.83	6.93	✓
5.5'	7.90	6.66	✓
10.5'	7.95	6.81	✓
14.5'	8.00	6.76	✓
19.25'	8.05	6.71	✓
24.4'S	8.02	6.68	✓
29.6'S	8.03	6.63	✓

Somper St.

14.76

~~14.76~~

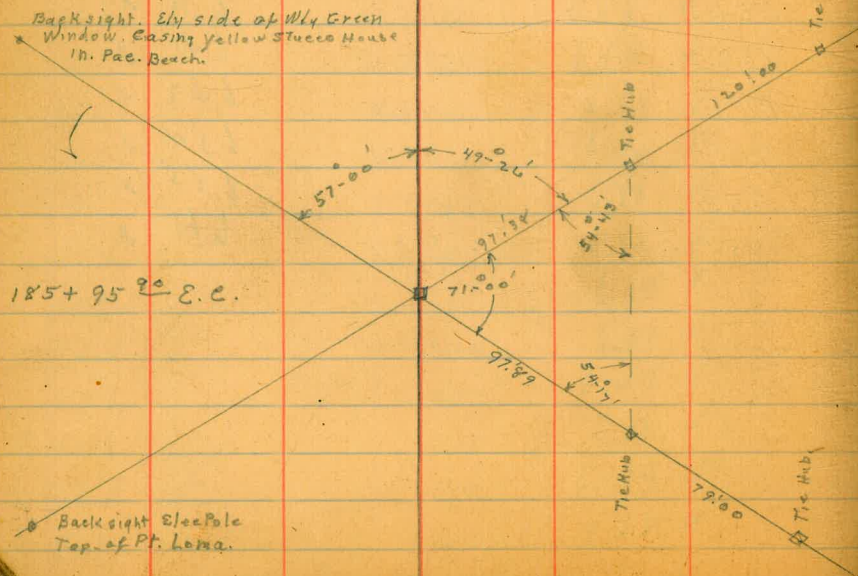
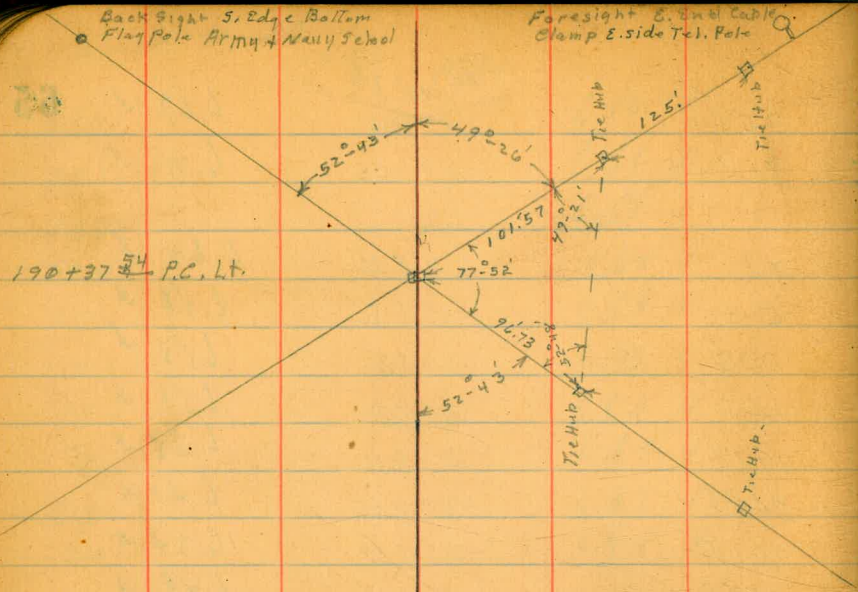
348'S	820	6.56 ✓
40'S = L	825	6.51 ✓
452'S	821	6.55 ✓
50.4'S	814	6.62 ✓
55.6'S	807	6.69 ✓
60.8'S	803	6.73 ✓
66'S	796	6.80 ✓
70'S	792	6.84 ✓
75'S	787	6.87 ✓
80'S	784	6.91 ✓
	90'S	
NL	803	6.73 ✓
5'S	810	6.66 ✓
10'S	814	6.62 ✓
14'S	818	6.58 ✓
192'S	822	6.54 ✓
241'S	824	6.54 ✓
296'S	832	6.42 ✓
348'S	838	6.38 ✓
40'S = L	845	6.31 ✓
452'S	841	6.35 ✓
50.4'S	835	6.41 ✓
55.6'S	827	6.49 ✓
60.8'S	823	6.53 ✓
66'S	817	6.59 ✓
70'S	813	6.63 ✓

14.76

~~14.76~~

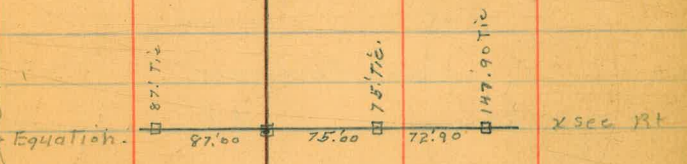
75'S	809	6.67 ✓
80'S = L	803	6.73 ✓
	100'S	
NL	814	6.62 ✓
5'S	818	6.58 ✓
10'S	821	6.55 ✓
14'S	825	6.51 ✓
192'S	831	6.45 ✓
244'S	835	6.41 ✓
296'S	842	6.34 ✓
348'S	848	6.28 ✓
40'S = L	853	6.23 ✓
452'S	851	6.15 ✓
50.4'S	844	6.34 ✓
55.6'S	840	6.36 ✓
60.8'S	835	6.41 ✓
66'S	829	6.47 ✓
70'S	824	6.54 ✓
75'S	821	6.55 ✓
80'S = L	815	6.61 ✓

65



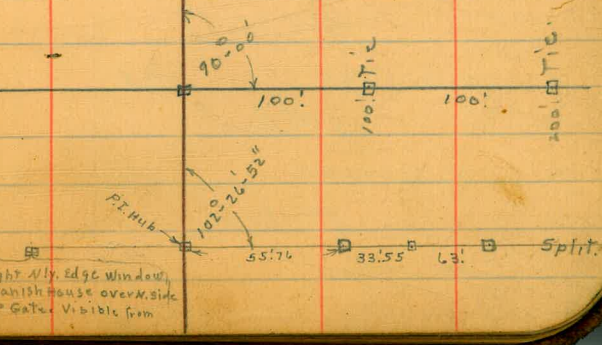
208+00 X Sec Lt.

$= 206 + 21.00$
 $207 + 49.89$
 $207 + 40.89$ chained.
 O.K. Page 51.



205+58³⁴ E.C.

$\Delta = 24^{\circ} 53' 45''$
 $R = 3500'$
 $T = 772.59$
 $L = 1520.80$
 $2x = 84.245$



Back sight Nly edge window
 in patio Spanish house over N. side
 white stucco gate. Visible from
 Track.

Rose Canyon Creek Bridge indexed
Levels c.s.k.

BM 5.52 25.30 19.78

South End Bridge

1/2 on Top of Deck 5.26

North End of Bridge

1/2 on Top of Deck 4.77

TP 1.29 15.52 11.07 14.23

TP 2.16 12.89 4.79 10.73

South Abutment

1/2 on Ground 3.6

1st Bent

1/2 on Ground 4.4

Bottom of Stringer +4.35

Bottom of Cap +1.56

2nd Bent

1/2 on Ground 5.3

3rd Bent

1/2 on Ground 5.3

4th Bent

1/2 on Ground 4.1

NE Mon
Bolton Post
Canyon

12.89

5th Bent

1/2 on Ground 4.0

6th Bent

1/2 on Ground 3.8

Bottom of Stringer +4.66

Bottom of Cap +1.92

North Abutment

1/2 on Ground 4.4

8-12-33
Moart
Canyon
Party 67

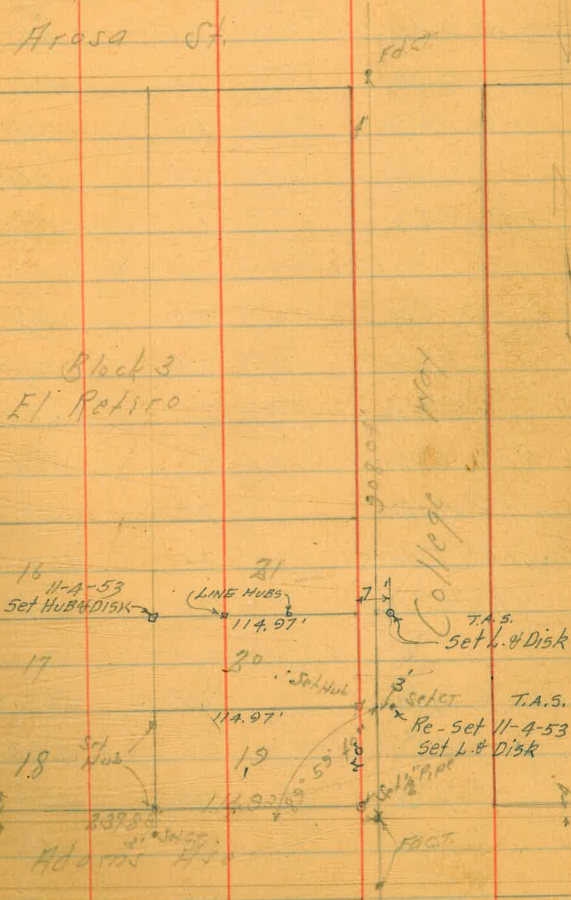
Survey Lot 19 Block 3 El Retiro

BM	4.96	471.21	466.25
0+0 West Curve of College Way			
N.L. Lot 19 Top Cb	8.05		463.16
" " " Gutter	8.72		462.49
40 S of N.L. 19. B.C. Cb Ret			
Top Cb	7.95		463.26
Gutter	8.51		462.70
2 Return			
Top Cb	7.98		463.23
Gutter	8.42		462.79
0+5 West Edge Walk			
N.L. Lot 19	8.01		463.20
40 S of N.L.	7.90		463.31
N Edge Walk Cont. Ret.	7.85		463.36
0+10 N.L. College Way			
50 S	7.85		463.36
25 S	7.8		463.4
N.L. Lot 19	7.9		463.3
0+12			
N.L. Lot 19	7.0		464.2
25 S	7.0		464.2
47 S	6.3		464.9
50 S = N.L. Adams	7.4		463.8

SE Top of Lot 19
Adams College Way

INDEXED
C.S.K.
Plotted
C.S.K.
IMPROVED
BY
NOV 5 1953

9-30-53
Kearney
Sutton
Harling
68



Socio Drive

College Way

Adams

17/21

0+20

60 S - N Ch of Adams Top Ch	7.86	463.35
" " Ditch Gutter	8.3	462.9
55 S - Nly Edge Walk	7.62	463.53
50 S	7.4	463.8
45 S	6.5	464.7
25 S	6.3	464.9
N L Lot 19	6.6	464.6

0+150

N L Lot 19	5.0	466.2
25 S	5.6	465.6
17 S	6.6	464.6
50 S - N Ch Adams	7.2	464.0
55 S - Nly Walk	7.52	463.69
50 S - N Ch Adams	7.62	463.59
" " Ditch Gutter	8.0	463.2

0+25

60 S - N Ch Adams	7.37	463.84
" " Ditch Gutter	7.2	463.4
55 S - Nly Walk	7.36	463.91
50 S - N Ch Adams	7.2	464.0
17 S	6.3	464.9
25 S	5.6	465.6
N L Lot 19	4.9	466.5

17/21

1+00

N L Lot 19	4.2	467.0
25 S	5.0	466.2
17 S	5.3	465.9
50 S - N Ch Adams	6.7	464.5
55 S - Nly Walk	7.15	464.06
60 S - N Ch Adams	7.18	464.03
" " Ditch Gutter	7.8	463.4

1+24.93 = N L Lot 19

60 S - N Ch Adams	6.94	464.27
" " Ditch Gutter	7.5	463.7
55 S - Nly Walk	6.87	464.34
50 S - N Ch Adams	6.0	465.2
17 S	5.0	466.2
25 S	4.0	467.2
N L Lot 19 on this	3.92	467.48

Construction Notes

BM	2.43	468.68	466.25
Nly Edge Walk at Drive	5.47	463.21	4.68
Top Floor East End Eng. Room		464.00	4.18
" " floor " " "		464.50	
" Top of Foundation		465.50	2.18

1-18-34
 2nd floor
 of Top of
 Adams College
 yard

Topog. Lots 17 to 20 Block 227 Pacific Beach

Indexed
c.s.K.

Oct 19 93
J. J. Gray
Portland 70

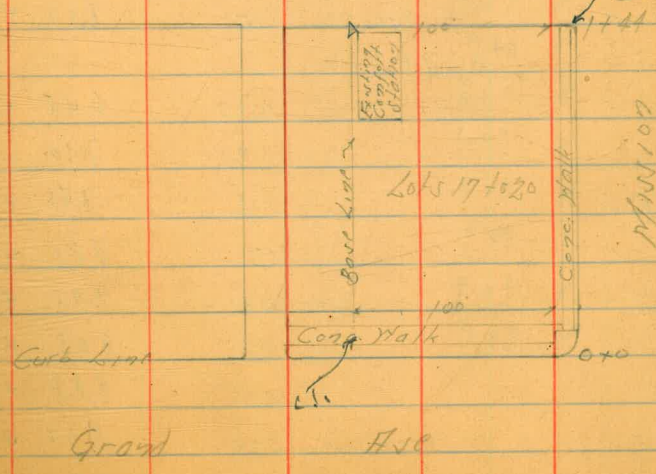
B.M.	7.01	13.83	15.83	6.82	SE 8 P Grand Ave Ocean Blvd
	0+0 - N Cb Line of Grand Ave				
Base Line Gutter	7.33			6.50	✓
" " " Top Cb.	6.62			7.21	✓
50' E of BL Gutter	7.53			6.30	✓
" " " Top Cb.	6.80			7.03	✓
100' E of BL - 1/2 Mission Gutter	7.68			6.15	✓
" " " Top Cb.	6.97			6.86	✓
0+11 - Sly Edge Walk					
110' E of BL Gutter	7.61			6.22	✓
" " " Top Cb.	6.95			6.88	✓
100' E of BL on Walk	6.61			7.22	✓
50' E " " " "	6.56			7.27	✓
B.L.	6.49			7.34	✓
0+16 - 1/2 Edge Walk					
B.L.	6.36			7.27	✓
125' E of BL - 1/4 Sid Walk	6.38			7.25	✓
50' E " " on Walk	6.47			7.36	✓
100' E " " - 1/2 Mission	6.55			7.28	✓
110' E " " Top Cb.	6.92			6.91	✓
" " " Gutter	7.59			6.74	✓
0+20 - 1/2 Grand Ave					
115' E of BL Top Cb.	6.92			6.91	✓
" " " Gutter	7.61			6.22	✓
101' E " " "	6.55			7.28	✓

Felspar

Block 227
Pacific Beach

Ocean Blvd

Blvd



13.83 (13.83)

75' E of Base Line	61	7.73	✓
50' E " " "	61	7.73	✓
25' E " " "	61	7.73	✓
B-L	5.9	7.93	✓
0+30			
Base Line	5.2	8.63	✓
12.5' E of B-L to Plank Walk	6.14	7.69	✓
25' E " " "	5.4	8.43	✓
50' E " " "	5.2	8.63	✓
75' E " " "	5.2	8.63	✓
98' E " " "	5.8	8.03	✓
102.5' E " " - My Corn Walk	6.60	7.75	✓
107.5' E " " - Fly " "	6.70	7.13	✓
110' E " " Top Curb	6.83	7.00	✓
110' E " " Gutter	7.51	6.37	✓
0+45			
110' E of BL Gutter	7.39	6.44	✓
" " " " Top Cb	6.73	7.10	✓
101' " " "	6.1	7.43	✓
98' " " "	5.0	8.83	✓
75' " " "	4.8	9.03	✓
50' " " "	4.8	9.03	✓
25' " " "	5.0	8.83	✓
12.5' " " " - 1/2 Plank Walk	5.73	8.10	✓
Base Line	4.9	8.93	✓

71

13.83 (13.83)

0+70			
Base Line	4.9	8.93	✓
12.5' E of B-L - 1/2 Plank Walk	5.14	8.69	✓
25' " " "	4.8	9.03	✓
50' " " "	4.8	9.03	✓
75' " " "	4.8	8.93	✓
99' " " "	5.3	8.53	✓
100' " " "	6.2	7.63	✓
102.5' " " " - My Corn Walk	6.42	7.41	✓
107.5' " " " - Fly " "	6.46	7.37	✓
110' " " " Top Cb	5.52	7.31	✓
" " " " Gutter	7.15	6.68	✓
0+91			
110' E of BL Gutter	7.00	6.83	✓
" " " " Top Cb	6.86	7.47	✓
100' " " "	6.2	7.63	✓
98' " " "	5.2	8.63	✓
75' " " "	4.8	9.03	✓
50' " " "	4.7	9.13	✓
25' " " "	4.6	9.73	✓
12.5' " " " - 1/2 Plank Walk	4.54	9.79	✓
Base Line	4.6	9.73	✓

13.83 (13.83)

0+95 = Sky Line	Conf. 5th		
Base line	46	9.23	✓
3.5 E of Baseline	Conf. Platform	4.51	9.32
21.5 " " "	Conf. Plat.	4.50	9.33
50 " " "		47	9.13
75 " " "		48	9.05
98 " " "		53	8.63
100 " " "		62	7.63
110 " " "	Top Ch.	632	7.51
110 " " "	Gutter	696	6.87
1+20			
110 E of Baseline	Top Ch.	6.15	7.68
110 E " " "	Gutter	6.75	7.08
100 E " " "		59	7.93
98 E " " "		51	8.73
75 E " " "		42	9.63
50 E " " "		41	9.73
25 E " " "		43	9.53
Baseline		42	9.63
1+44 = Sky Line			
Baseline		43	9.53
3.5 E of Baseline	Conf. Platform	4.52	9.31
21.5 " " "		47	9.36
25 " " "		3.8	10.03
50 " " "		37	10.13

13.83 (13.83)

75 E of Bl.		6.8	10.03	✓
100 E " " "	Top Ch. by Bl.	5.78	8.05	✓
100 E " " "	Gutter	5.93	7.90	✓
110 E " " "	Top Ch.	5.93	7.90	✓
" " " "	Gutter	6.63	7.70	✓
1+47				
110 E of Bl.	Gutter	6.60	7.73	✓
100 " " "	Top Ch.	6.00	7.83	✓
75 " " "		5.5	8.33	✓
50 " " "		47	9.13	✓
25 " " "		46	9.13	✓
31.5 " " "	Conf. Approx	4.54	9.19	✓
3.5 " " "	" " "	4.32	9.51	✓
Baseline		4.5	9.33	✓

4-19-34
Miller
Walker
Bliss

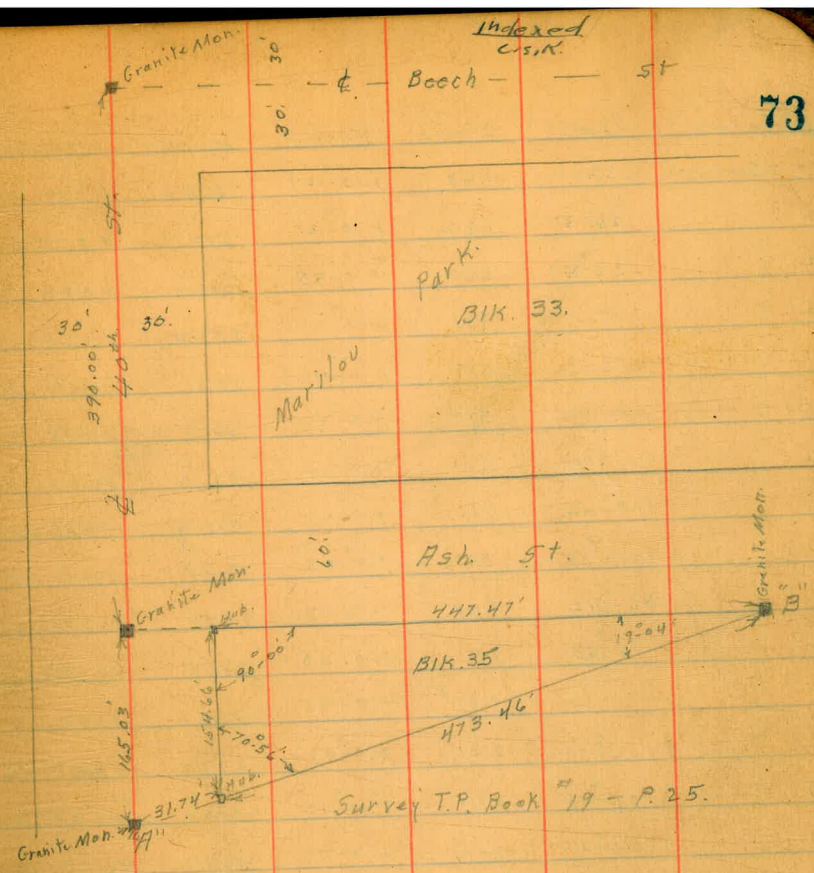
Topographical Survey for Police.
Target Range.

Point at B.M. C.T.L.P.	2.22	89.43		87.21	P.I. 440 th St + 4 th Bd. Wash
T.P.	6.58	83.39	12.62	76.81	
Hub. 40 th St. Sta 86+24 th FC Home Ave. Ex			0.74	82.65	
Mon. 4 th St. + W. Production of S. Line BIK. 35. Marilou Park. "A"			5.03	78.36	
4 th Hub. Sta 86+24 th FC. Home Ave. Ex			2.89	80.50 = 80.48	
T.P.	9.19	89.74	2.84	80.55	
Mon. Ely Cor BIK. 35 "B"			4.09	85.65	

Instrument at "A" = Granite Mon 4th 40th + W. Production of
S. Line BIK 35.

Reading from Mon. A. El. 78.36
Azimuth to Pt. - Clockwise of Foresight. Mon. 4th 40th St.
4th Beech St.

Station	Azimuth	Stadia	Vert. L	Hor. Dist.	Diff. Elev	Elev.
1 4 th 40 th N. Bank Wash.	180°-00'	175.0	-0°-39'	175.0	-1.98	76.38
2 = 4 th 40 th	180°-00'	123.	-0°-54'	123.0	-1.99	76.37
3 "	153°-29'	163	-0°-46'	163.0	-2.22	76.14
4 N. Bank Wash	155°-39'	201.	-0°-30'	201.0	-1.84	76.52
5 " " "	140°-20'	237.	-0°-15'	237.0	-1.02	77.34
6 "	134°-09'	215.	-0°-16'	215.0	-1.0	77.36
7 "	134°-09'	177.	-0°-26'	177.0	-1.28	77.08
8 N. Bank Wash	137°-20'	241.	+0°-26'	241.0	+1.83	80.19
9 "	133°-53'	219.	+0°-31'	219.0	+1.88	80.34



Station	Azimuth	Stadia	Vert. L.	Hor. dist.	Diff Elev	Elev
10 N. Bank Wash	137°01'	269'	+0°24'	269.0	+1.38	79.74
11 " " "	126°37'	282'	+0°37'	282.0	+3.04	81.40
12 " " "	123°57'	280'	+0°35'	280.0	+2.85	81.21 v
13 " " "	115°02'	351'	+0°37'	351.0	+3.28	81.64 v
14 " " "	112°56'	347'	+0°46'	347.0	+4.64	83.00 v
15 " " "	110°40'	370'	+0°46'	370.0	+4.94	83.28 v
16	110°00'	331'	+0°44'	331.0	+4.22	82.59
17	109°45'	317'	+0°40'	317.0	+3.69	82.05 v
18	108°59'	303'	+0°23'	303.0	+2.08	80.44
19	96°42'	297'	+0°23'	297.0	+1.89	80.35
20	94°50'	291'	+0°53'	291.0	+4.49	82.85 v
21	101°16'	237'	+0°55'	237.0	+3.79	82.15 v
22	104°37'	237'	+0°09'	237.0	+0.81	79.17 v
23	105°48'	240'	+0°12'	240.0	+0.83	79.19 v
24	106°41'	244'	+0°40'	244.0	+2.85	81.21 v
25	114°49'	281'	+0°43'	281.0	+3.52	81.88 v
26	123°00'	255'	+0°42'	255.0	+3.13	81.49 v
27	125°58'	251'	+0°45'	251.0	+3.28	81.64 v
28	130°14'	251'	+0°37'	251.0	+2.21	81.07 v
29	133°00'	241'	+0°40'	241.0	+2.81	81.17
30	130°36'	241'	+1°04'	241.0	+4.49	82.83
31	128°04'	247'	+1°02'	247.0	+4.45	82.81
32	126°14'	243'	+1°02'	243.0	+4.38	82.74 v
33	127°15'	237'	+1°06'	237.0	+4.55	82.91
34	122°27'	227'	+0°37'	227.0	+2.44	80.80

Station	Azimuth	stadia	Vert.			
35	126°-42'	231'	+0°-37'	231.0	+2.47	80.83
36	117°-58'	200'	+0°-37'	200.0	+2.15	80.51
37	115°-17'	195'	+0°-09'	195.0	+0.50	78.96
38	113°-24'	197'	+0°-18'	197.0	+1.02	79.38
39	111°-00'	187'	+0°-56'	187.0	+3.05	81.41
40	126°-11'	149'	+0°-51'	149.0	+2.22	80.55
41	128°-21'	155'	+0°-05'	155.0	+0.22	78.58 ✓
42	130°-00'	159'	+0°-40'	159.0	+1.85	80.21 ✓
43	133°-30'	171'	+0°-46'	171.0	+2.29	80.65
44	131°-13'	147'	+0°-35'	147.0	+1.49	79.85
45	152°-10'	157'	+0°-02'	157.0	0.09	78.45
46	146°-08'	133'	+0°-13'	133.0	+0.49	78.85
47	144°-33'	125'	+0°-41'	125.0	+1.49	79.85
48	158°-03'	127'	-0°-11'	127.0	-0.39	77.92
49	158°-03'	143'	-0°-23'	143.0	-0.94	77.42
50	159°-29'	114'	+0°-45'	114.0	+3.40	81.76
51	176°-21'	112'	+0°-03'	112.0	+0.10	78.46
52 & 40 th St.	180°-00'	80'	0°-00'	80.0	00	78.36
53	153°-25'	98'	+0°-03'	98.0	0.09	78.45
54	153°-25'	104'	+0°-42'	104.0	1.32	78.68
55	124°-22'	133'	+0°-57'	133.0	4.52	82.88
56	121°-31'	127'	+0°-31'	127.0	1.14	79.50
57	105°-22'	173'	+0°-31'	173.0	1.56	79.92
58	107°-35'	179'	+0°-50'	179.0	2.61	80.97
59	100°-35'	219'	+0°-52'	219.0	3.32	81.68

Station	Azimuth	Stadia	Vert. L.			
60	98°-42'	217'	+0°-28'	217.0	+1.77	80.13
61	95°-03'	195'	+0°-29'	195.0	+1.65	80.01
62	92°-22'	233'	+0°-40'	233.0	+2.72	81.08
63	94°-48'	249'	+0°-35'	249.0	+2.54	80.90
64	96°-32'	253'	+0°-50'	253.0	+3.69	82.05
65	92°-36'	295'	+0°-53'	295.0	+4.55	82.91
66	90°-58'	291'	+0°-38'	291.0	+3.22	81.58
67	73°-35'	307'	+0°-44'	307.0	+3.93	82.29
68	69°-36'	309'	+0°-36'	309.0	+3.23	81.59
69	67°-16'	311'	+0°-44'	311.0	+3.92	82.33
70	60°-46'	327'	+0°-42'	327.0	+4.00	82.36
71	58°-14'	332'	+1°-08'	331.8	+6.58	84.94
72	53°-01'	277'	+1°-17'	276.9	+6.20	84.56
73	55°-27'	270'	+0°-56'	270.0	+4.40	82.76
74	49°-37'	226'	+1°-10'	226.0	+4.61	82.92
75	45°-30'	240'	+1°-37'	240.0	+6.78	85.14
76	43°-15'	220'	+1°-51'	220.0	+7.10	85.46
77	49°-33'	203'	+0°-56'	203.0	+6.85	85.21
78	61°-04'	187'	+0°-46'	187.0	+5.76	84.12
79	61°-25'	113'	+0°-46'	113.0	+3.48	81.84
80	40°-09'	147'	+1°-01'	147.0	+2.61	80.92
81	37°-56'	177'	+1°-26'	177.0	+4.42	82.78
82	37°-49'	195'	+1°-17'	195.0	+4.36	82.72
83	37°-57'	203'	+2°-02'	202.8	+6.21	85.02
84	22°-05'	182'	+2°-18'	182.0	+7.30	85.66

Station	Azimuth	Stadia	Vert. L			
85	22°-05'	177'	+1°-35'	176.9	+4.88	83.24
86	22°-05'	161'	+1°-47'	160.9	+5.01	83.32
87	22°-05'	149'	+1°-32'	149.0	+3.98	82.34
88	22°-05'	142'	+1°-02'	142.0	+3.12	81.48
89	22°-05'	82'	+1°-12'	82.0	+1.71	80.87
90 $\frac{1}{2}$ 40 th st	0°-00'	79'	+1°-10'	79.0	+1.61	79.97
91 " " "	0°-00'	140'	+0°-52'	140.0	+4.52	82.93
92	6°-24'	155'	+1°-10'	155.0	+3.16	81.52
93	13°-21'	151'	+1°-32'	150.8	+4.03	82.32
94	8°-38'	161'	+1°-40'	160.7	+4.68	83.07
95	7°-16'	176'	+1°-17'	175.8	+3.94	82.30
96	6°-46'	183'	+1°-48'	182.5	+5.25	84.11
97	6°-00'	183'	+1°-20'	182.7	+4.26	82.62
98	2°-14'	187'	+1°-20'	186.8	+4.35	82.71
99 $\frac{1}{2}$ 40 th st	0°-00'	189'	+1°-06'	188.9	+3.63	81.99
100 " " "	0°-00'	229'	+1°-22'	229.9	+5.42	83.83
101	5°-34'	227'	+1°-38'	226.8	+6.48	84.84
102	5°-58'	228'	+2°-17'	227.7	+9.10	82.46
103	6°-07'	211'	+2°-17'	210.8	+8.38	86.24
104	6°-25'	275'	+1°-58'	274.5	+9.45	82.81
105	5°-26'	276'	+1°-26'	275.8	+6.90	85.26
106 $\frac{1}{2}$ 40 th st	0°-00'	276'	+1°-04'	276.0	+5.46	83.82
107	10°-45'	273'	+3°-21'	272.1	+15.95	74.31
108	10°-20'	245'	+3°-50'	243.8	+16.38	74.74
109	7°-54'	227'	+4°-05'	225.9	+16.18	74.54 ✓

Station	Azimuth	Stadia	Vert. L			
110	13°-40'	235'	+4°-54'	233.3	+20.00	98.36
111	11°-11'	248'	+4°-21'	246.2	+19.80	98.16
112	13°-04'	270'	+4°-09'	268.0	+19.50	97.86
113	17°-36'	232'	+5°-12'	230.0	+20.90	99.26
114	17°-36'	212'	+4°-08'	211.5	+15.23	93.59
115	24°-09'	211'	+3°-58'	210.0	+14.59	92.98
116	37°-44'	242'	+3°-44'	240.8	+15.73	94.09
117	42°-30'	259'	+3°-23'	257.6	+18.36	93.72
118	45°-10'	245'	+2°-16'	244.6	+9.71	86.67
119	47°-45'	290'	+3°-22'	289.0	+12.00	95.36
120	54°-53'	329'	+2°-32'	328.4	+14.50	92.86
121	55°-30'	347'	+2°-55'	346.3	+12.68	96.01
122	50°-35'	361'	+5°-20'	359.8	+33.45	711.81
123	44°-56'	334'	+5°-57'	331.8	+34.51	112.87
124	38°-24'	300'	+6°-45'	292.0	+35.0	113.36
125	25°-57'	270'	+7°-52'	264.8	+41.20	119.56
130	22°-18'	277'	+7°-55'	272.0	+37.58	115.94
131	20°-52'	294'	+7°-32'	289.0	+38.40	116.26
132	26°-07'	299'	+9°-32'	290.5	+48.85	120.21
133	25°-40'	309'	+9°-17'	300.0	+49.25	127.61
134	29°-19'	320'	+9°-20'	310.0	+56.05	129.41
135	30°-18'	311'	+9°-24'	302.0	+50.20	128.56
136	41°-04'	368'	+8°-09'	360.0	+51.60	129.26
137	41°-00'	379'	+8°-00'	370.5	+52.30	130.66
138	44°-00'	384'	+7°-43'	376.2	+51.1	129.46

Station	Azimuth	Stadia	Vert L.			
139	43°24'	390'	+7°44'	382.0	+52.0	130.36
140	46°33'	406'	+7°28'	398.0	+52.3	130.66
141	47°39'	402'	+7°23'	395.5	+51.2	129.56

Instrument at "B" Mon, Ely Cor. BIK 35 El. 85.65

Station	Azimuth Parallel to ϕ 40° 51'			Stadia	Vert L.			
	Azimuth							
1	272°06'	132'	-0°56'	132.0	-2.18			83.47
2	277°14'	133'	-0°04'	133.0	-.15			85.50
3	278°10'	115'	-0°09'	115.0	-.26			85.39
4	269°31'	111'	-0°55'	111.0	-1.26			83.89
5	263°06'	55'	-0°56'	55.0	-0.88			84.77
6	270°49'	22'	-0°49'	-22.0	-0.31			85.34
7	2°40'	33'	+5°51'	+32.7	+3.35			87.00
8	307°02'	43'	+4°37'	42.6	+4.19			89.84
9	279°25'	103'	+1°39'	103.0	+3.05			88.70
10	281°18'	115'	+1°40'	115.0	+3.20			88.85
11	283°36'	135'	+2°56'	135.0	+6.45			92.16
12	291°01'	150'	+6°51'	147.9	+17.76			103.41
13	295°00'	135'	+7°04'	133.0	+16.48			102.13
14	290°00'	127'	+4°40'	126.5	+10.32			95.92
15	294°15'	113'	+5°01'	112.5	+8.94			94.59
16	311°55'	87'	+7°06'	85.7	+10.67			96.32
17	304°56'	75'	+5°08'	74.4	+6.68			92.33
18	326°08'	65'	+6°19'	74.1	+8.18			94.83
19	332°57'	79'	+8°01'	72.4	+10.91			96.56

Police Target Range

station	Azimuth	Stadia	Vert. L.		
20	2°-07'	80'	+8°-37'	78.2	+11.85
21	2°-07'	63'	+6°-57'	62.3	+6.50
22	1°-56'	111'	+13°-15'	105.0	+24.80
23	338°-38'	111'	+12°-38'	105.6	+23.60
24	315°-26'	127'	+11°-28'	122.0	+24.60
25	300°-50'	149'	+9°-46'	144.2	+24.70
26	294°-12'	171'	+8°-59'	166.2	+26.40
27	305°-00'	199'	+13°-25'	188.0	+44.90
28	306°-45'	203'	+13°-20'	192.2	+45.60
29	313°-30'	191'	+14°-10'	178.5	+45.3
30	325°-27'	173'	+15°-48'	161.2	+45.4
31	326°-29'	181'	+15°-29'	167.9	+46.5
32	340°-17'	163'	+16°-58'	149.0	+45.4
33	340°-56'	171'	+16°-45'	156.3	+47.2
34	2°-42'	175'	+16°-36'	160.8	+47.9
35	2°-32'	167'	+16°-56'	152.4	+46.5
36 Bank Wash	170°-42'	231'	-0°-21'	231.0	+1.41
37 "	176°-09'	220'	-0°-16'	220.0	-1.01
38 "	186°-57'	231'	-0°-28'	231.0	-1.88
39 "	194°-39'	267'	-0°-33'	267.0	-2.57
40 "	202°-06'	315'	-0°-34'	315.0	-3.12
41 "	204°-05'	291'	-0°-31'	291.0	-2.62
42	210°-15'	302'	-0°-30'	302.0	-2.63
43	207°-51'	317'	+0°-05'	317.0	+0.36

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DIRECTIONS FOR USE OF TABLES

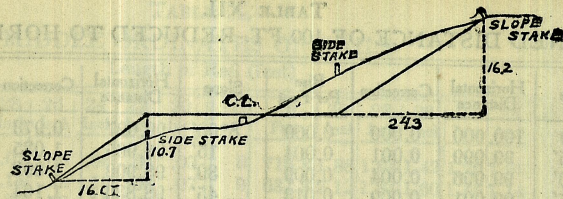
TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway slope 1% 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 nearly level, the cut or fill at side stake and slope stake must be set by this method. Add this amount to cut or fill and distance in table to find total distance from side stake to target.

IMPROVED TABLES
AND
INFORMATION

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 L may be found by dividing tangent (or external) opposite L 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.

97.50
92.15
110.45
99.25
110.25
110.35
112.05
130.55
131.25
130.95
131.05
132.15
131.05
132.85
133.55
132.15
84.24
84.64
83.77
82.08
82.53
83.03
83.02
86.01



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0 00	0 15	0 30	0 45	0 60	0 75	0 90	1 05	1 20	1 35	0
1	1 50	1 65	1 80	1 95	2 10	2 25	2 40	2 55	2 70	2 85	1
2	3 00	3 15	3 30	3 45	3 60	3 75	3 90	4 05	4 20	4 35	2
3	4 50	4 65	4 80	4 95	5 10	5 25	5 40	5 55	5 70	5 85	3
4	6 00	6 15	6 30	6 45	6 60	6 75	6 90	7 05	7 20	7 35	4
5	7 50	7 65	7 80	7 95	8 10	8 25	8 40	8 55	8 70	8 85	5
6	9 00	9 15	9 30	9 45	9 60	9 75	9 90	10 05	10 20	10 35	6
7	10 50	10 65	10 80	10 95	11 10	11 25	11 40	11 55	11 70	11 85	7
8	12 00	12 15	12 30	12 45	12 60	12 75	12 90	13 05	13 20	13 35	8
9	13 50	13 65	13 80	13 95	14 10	14 25	14 40	14 55	14 70	14 85	9
10	15 00	15 15	15 30	15 45	15 60	15 75	15 90	16 05	16 20	16 35	10
11	16 50	16 65	16 80	16 95	17 10	17 25	17 40	17 55	17 70	17 85	11
12	18 00	18 15	18 30	18 45	18 60	18 75	18 90	19 05	19 20	19 35	12
13	19 50	19 65	19 80	19 95	20 10	20 25	20 40	20 55	20 70	20 85	13
14	21 00	21 15	21 30	21 45	21 60	21 75	21 90	22 05	22 20	22 35	14
15	22 50	22 65	22 80	22 95	23 10	23 25	23 40	23 55	23 70	23 85	15
16	24 00	24 15	24 30	24 45	24 60	24 75	24 90	25 05	25 20	25 35	16
17	25 50	25 65	25 80	25 95	26 10	26 25	26 40	26 55	26 70	26 85	17
18	27 00	27 15	27 30	27 45	27 60	27 75	27 90	28 05	28 20	28 35	18
19	28 50	28 65	28 80	28 95	29 10	29 25	29 40	29 55	29 70	29 85	19
20	30 00	30 15	30 30	30 45	30 60	30 75	30 90	31 05	31 20	31 35	20
21	31 50	31 65	31 80	31 95	32 10	32 25	32 40	32 55	32 70	32 85	21
22	33 00	33 15	33 30	33 45	33 60	33 75	33 90	34 05	34 20	34 35	22
23	34 50	34 65	34 80	34 95	35 10	35 25	35 40	35 55	35 70	35 85	23
24	36 00	36 15	36 30	36 45	36 60	36 75	36 90	37 05	37 20	37 35	24
25	37 50	37 65	37 80	37 95	38 10	38 25	38 40	38 55	38 70	38 85	25
26	39 00	39 15	39 30	39 45	39 60	39 75	39 90	40 05	40 20	40 35	26
27	40 50	40 65	40 80	40 95	41 10	41 25	41 40	41 55	41 70	41 85	27
28	42 00	42 15	42 30	42 45	42 60	42 75	42 90	43 05	43 20	43 35	28
29	43 50	43 65	43 80	43 95	44 10	44 25	44 40	44 55	44 70	44 85	29
30	45 00	45 15	45 30	45 45	45 60	45 75	45 90	46 05	46 20	46 35	30
31	46 50	46 65	46 80	46 95	47 10	47 25	47 40	47 55	47 70	47 85	31
32	48 00	48 15	48 30	48 45	48 60	48 75	48 90	49 05	49 20	49 35	32
33	49 50	49 65	49 80	49 95	50 10	50 25	50 40	50 55	50 70	50 85	33
34	51 00	51 15	51 30	51 45	51 60	51 75	51 90	52 05	52 20	52 35	34
35	52 50	52 65	52 80	52 95	53 10	53 25	53 40	53 55	53 70	53 85	35
36	54 00	54 15	54 30	54 45	54 60	54 75	54 90	55 05	55 20	55 35	36
37	55 50	55 65	55 80	55 95	56 10	56 25	56 40	56 55	56 70	56 85	37
38	57 00	57 15	57 30	57 45	57 60	57 75	57 90	58 05	58 20	58 35	38
39	58 50	58 65	58 80	58 95	59 10	59 25	59 40	59 55	59 70	59 85	39
40	60 00	60 15	60 30	60 45	60 60	60 75	60 90	61 05	61 20	61 35	40
41	61 50	61 65	61 80	61 95	62 10	62 25	62 40	62 55	62 70	62 85	41
42	63 00	63 15	63 30	63 45	63 60	63 75	63 90	64 05	64 20	64 35	42
43	64 50	64 65	64 80	64 95	65 10	65 25	65 40	65 55	65 70	65 85	43
44	66 00	66 15	66 30	66 45	66 60	66 75	66 90	67 05	67 20	67 35	44
45	67 50	67 65	67 80	67 95	68 10	68 25	68 40	68 55	68 70	68 85	45
46	69 00	69 15	69 30	69 45	69 60	69 75	69 90	70 05	70 20	70 35	46
47	70 50	70 65	70 80	70 95	71 10	71 25	71 40	71 55	71 70	71 85	47
48	72 00	72 15	72 30	72 45	72 60	72 75	72 90	73 05	73 20	73 35	48
49	73 50	73 65	73 80	73 95	74 10	74 25	74 40	74 55	74 70	74 85	49
50	75 00	75 15	75 30	75 45	75 60	75 75	75 90	76 05	76 20	76 35	50

Computed by L. Leland Locke.

466.25
426
171.21

To f

5489.5
8+00

1978

5.19
4.14

1.05
371

5.19
3.00

2.19

~~4.95~~
~~5.01~~
5.1

5.19

83.5
78.36

5.14
3.77

1.37

82.5
78.36

4.16
2.19

1.97

81.5
78.36

3.14
1.05

2.09

33.4
14.5

48.0
109.00-20
57

52.00
11.41/100

111

205.58 34
190.37 54

215.20 80
740 40
19037 54

19798.00

73
17

87

72.9
75

147.9

227
17-20

86+24 24 E.C.
40 Lt. on Hub. 82.58
♀ " " 80.48

137
142

279

5.90
87

139-60
130-39
49-21
77-82

127-13 211-18
52-4720

102-09
52-43

49-26
179-60

101-09
57-52