

6

1056

DIETZGEN
PUBLISHERS

ENGINEERS'
FIELD BOOK
No. 403

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and
SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

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

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

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

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11+00
- 70 07.
10+79.93

10+00
8.42
9+91.58

220 21

30.025

18
10

Index

Page

Mount Hope Cemetery Survey Line "A" #15 Drive 1-4

Line "A"
Survey of #25 Road Mt Hope Cemetery

5+00

4+74.17 EC ✓

4+35.80 P.I

3+80.22 EC,

3+00

2+00
+94.73 Int # 12 Drive Line "C"

1+00

0+74.61 EC.

0+40.0 P.I.

0+00 P.I.C

$\Delta = 76^{\circ}54' RT$
 $R = 70'$
 $T = 55.58$
 $L = 93.95$
 $E_x = 19.28$

$\Delta = 51^{\circ}09' RT$
 $PR = 83.58$
 $ST = 40'$
 $ES = 9.75$
 $L = 74.61$

560.11

401.13

40' x

Dec 18-1918 Williams
Otter
Marion

Point of Beg. 57.13 from Cor. Lot 73 Hope Ave

1"x1"

1"x1"

1"x1"

1"x1"

66.10
1"x1" =
set "x" = B

N.L. Oddfellows

1"x1"

1"x1"

1"x1"

1"x1"

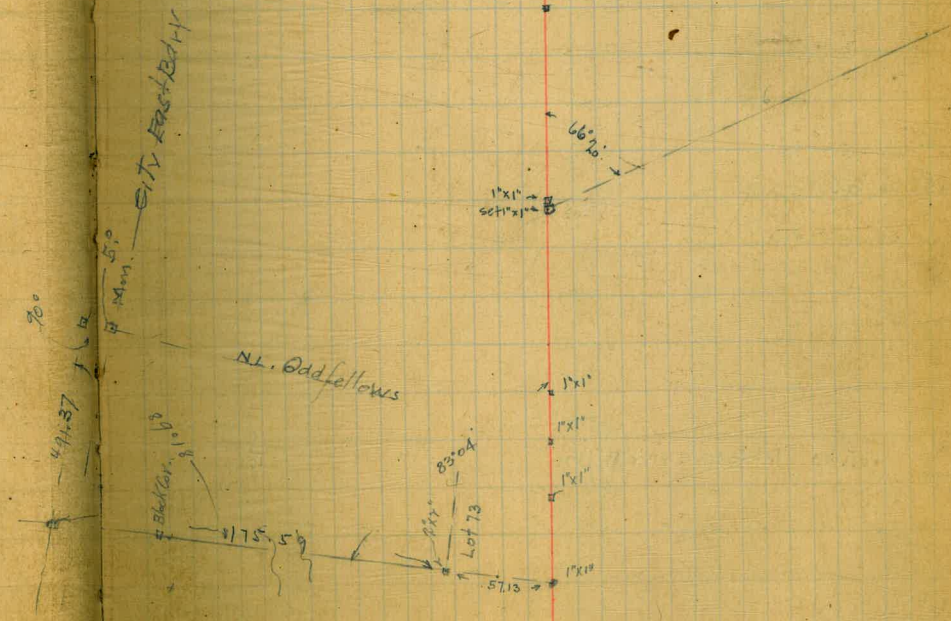
89.18
Block 12

1175.59

83.04

Lot 73

57.13



Line "A"

11+64.19 B.C.

245.76

10+75.43 EC.

9+78.70 P.I.

$\Delta = 67^{\circ}20' R$
 $R = 130'$
 $T = 126.56$
 $L = 223.29$
 $E = 38.29$

+52.14 B.C.

8+00

7+00

+05.83 Int E 20' Drive "B" Line

560.11'

6+00

1"x1"

1"x1"

1"x1"

1"x1"

1"x1"

83°50'

set 2"x2"

1"x1"

1"x1"

Line "A"

18+00

17+34.17 EC.

+85.48 P.I.

+34.69 BC.

16+00.13 EC.

15+38.80 P.I.

+63.74 BC.

14+04.64 EC.

+64.0 P.I.

+17.37 BC.
13+00

12+18.88 EC.

11+24.63 P.I.

$\Delta = 28^{\circ}30' \text{ Rt}$
 $R = 200'$
 $T = 50.79$
 $L = 99.48$
 $Ex = 6.35$

$\Delta = 60^{\circ}30' \text{ Lt}$
 $R = 130'$
 $T = 75.56$
 $L = 136.83$
 $Ex = 20.26$

$\Delta = 50^{\circ}00' \text{ Rt}$
 $R = 100'$
 $T = 46.63$
 $L = 87.27$
 $Ex = 10.34$

$\Delta = 62^{\circ}40' \text{ Rt}$
 $R = 50'$
 $T = 30.44$
 $L = 54.69$
 $Ex = 8.54$

217.62

x

160.91

x

180.73

x

175.56

x

1" x 1"

1" x 1"

1" x 1"

1" x 1"

1" x 1"

1" x 1"

1" x 1"

1" x 1"

1" x 1"

1" x 1"

1" x 1"

1" x 1"

Line "A"

22+16.48 = P.R.C.
0+00

$\Delta = 44^{\circ}28' L$
R = 85.62
T = 35.0
L = 66.45
Ex = 6.88

x 35.0

1"x1"

21+85.03 P.I.

1"x1"

21+50.03 B.C.

1"x1"

21+07.21 E.C.

$\Delta = 44^{\circ}55' R$
R = 81.24
T = 33.58
L = 63.69
Ex = 6.67

111.40

1"x1"

20+77.10 P.I.

1"x1"

20+43.52 P.C.C.

1"x1"

20+00.68 P.I.

$\Delta = 58^{\circ}00' R$
R = 93.54
T = 51.85
L = 94.69
Ex = 13.41

x 85.43

1"x1"

19+48.83 P.C.C.

101.29

1"x1"

19+01. P.I.

$\Delta = 25^{\circ}20' R$
R = 220.0
T = 49.44
L = 97.57
Ex = 5.49

x

1"x1"

18+50.56 B.C.

1"x1"

Jan. 1919

Survey "B" Line 20' Drive
 from
 £ Greville Ave to £ Hope Ave

4+00 set 1"x1"
 + 96.30 Int. Semi-Tang. "A" Line

+ 13.11 Int. "D" line = $\Delta 10^{\circ} 09' 14''$
 3+00 4+11.09 "D" Line

+ 12.59 Int. £ 4.5 Walk G.A.R. Plot - 1"x1"
 2+00 Hub. 1"x1"

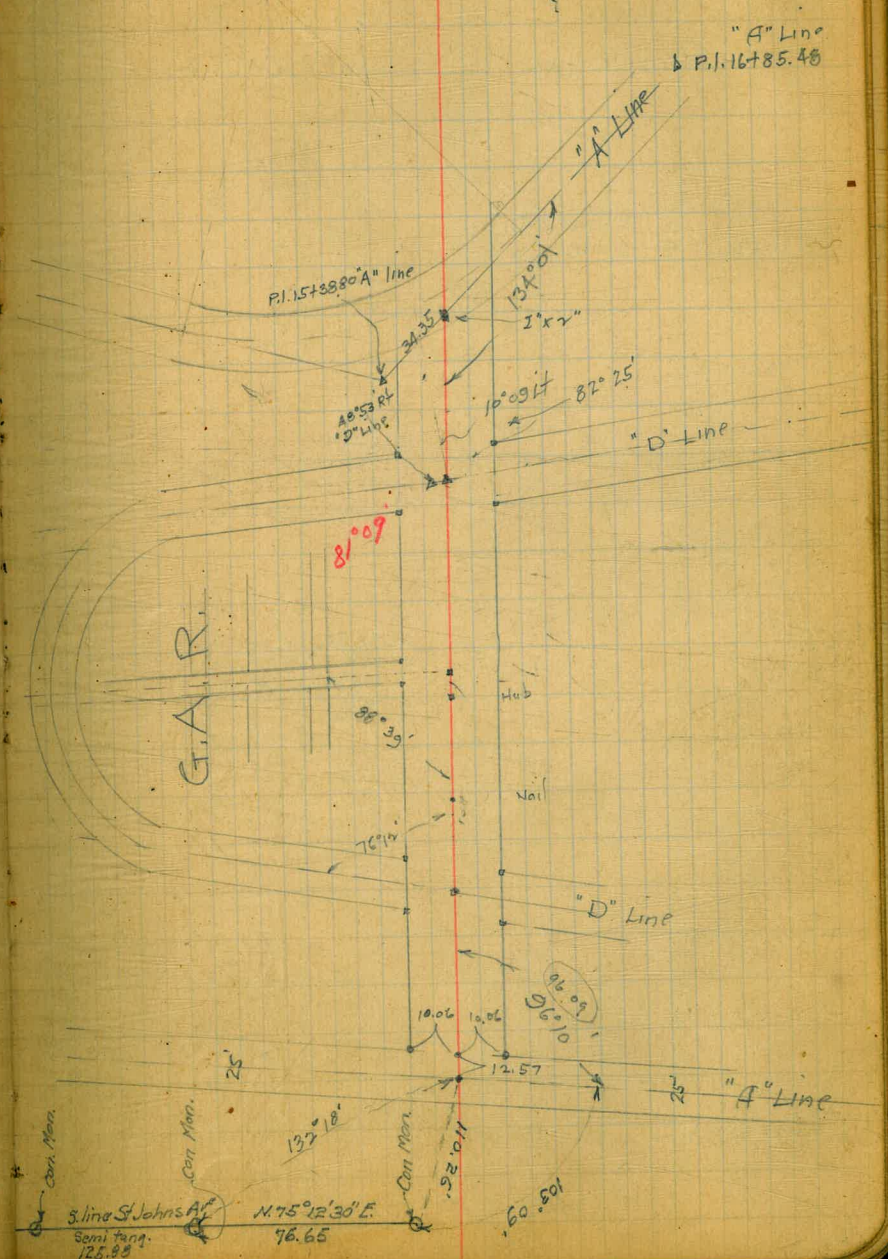
+ 41.20 P.O.T. Nail

1+00 Int. £ "D" line =
 8+98.59 8+64.78 "D" Line

0+00 £ "D" Line
 7+05.83 "A" Line

152.18

$$\begin{array}{r} 3 \overline{) 926.5340} \\ 112 \overline{) 17.55} \\ \hline 3 \overline{) 309.97} \\ 103 \overline{) 1.507} \end{array}$$



S. line St. Johns Ave
 Semi Tang.
 125.88

N. 75° 22' 30" E
 76.65

Survey "C" Line & 1/2 Drive from
Greville Ave to "B" Line 20' Drive

3+66.94 = Int. "C" line with
2+03.17 "B" Line

3+11.34 E.C.

2+75.37 P.I.

2+39.70 B.C.

2+28.37 E.C.

1+94.5 P.I.

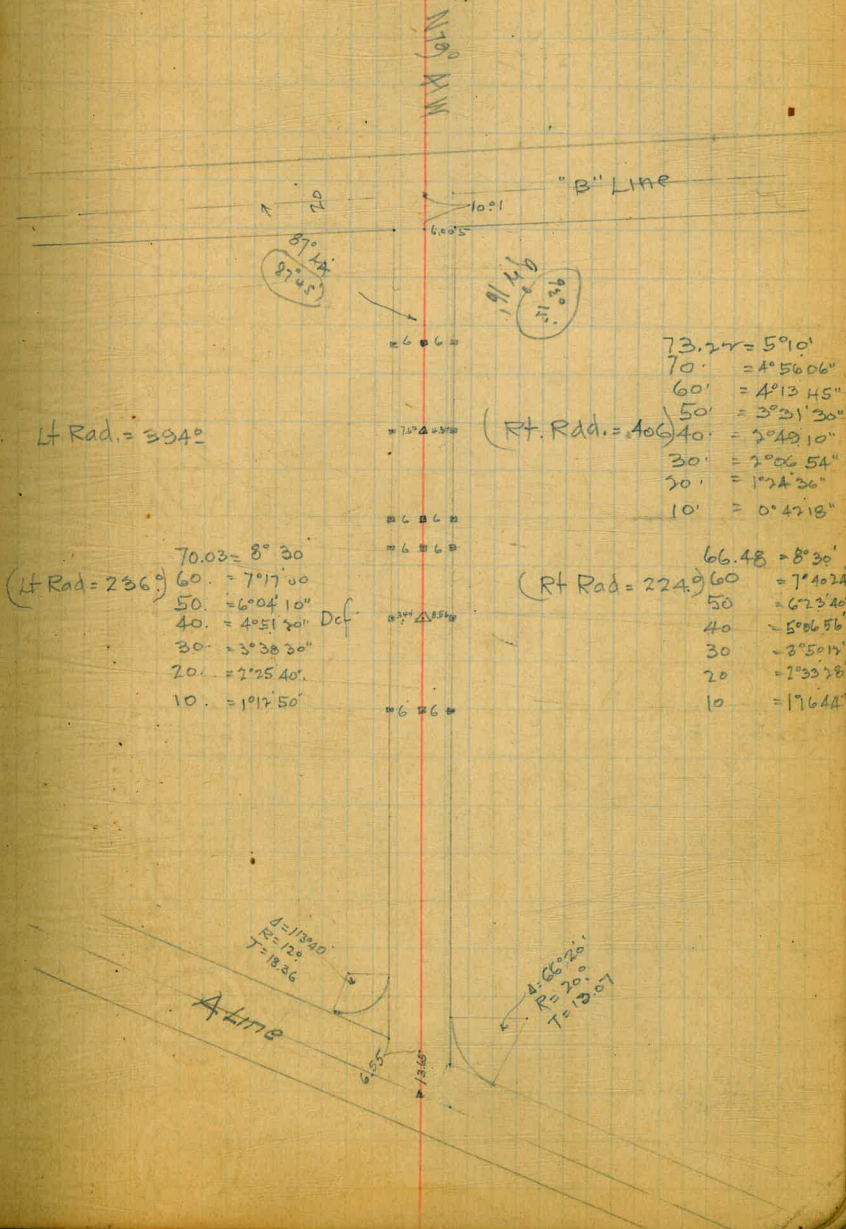
1+60.13 B.C.

1+00

0+00 "C" Line =
1+94.73 "A" Line

$\Delta = 10^{\circ} 20'$ Lt
Rad = 400
T = 36.17
L = 72.14
Ex = 1.63

$\Delta = 17^{\circ}$ Rt.
R = 230
T = 34.37
L = 68.34
Ex = 2.56



Lt Rad. = 394'

(Lt Rad = 236')
70.03 = 8° 30'
60. = 7° 17' 00"
50. = 6° 04' 10"
40. = 4° 51' 20" D.C.
30. = 3° 38' 20"
20. = 2° 25' 40"
10. = 1° 12' 50"

(Rt. Rad. = 406')

73.24 = 5° 10'
70. = 4° 56' 06"
60. = 4° 13' 45"
50. = 3° 21' 30"
40. = 2° 42' 10"
30. = 2° 06' 54"
20. = 1° 24' 26"
10. = 0° 42' 18"

(Rt Rad = 224')
66.48 = 8° 30'
60. = 7° 40' 24"
50. = 6° 23' 40"
40. = 5° 06' 56"
30. = 3° 50' 12"
20. = 2° 33' 28"
10. = 1° 16' 44"

$\Delta = 13^{\circ} 40'$
R = 230
T = 18.36

$\Delta = 6^{\circ} 22'$
R = 200
T = 13.07

Survey "D" Line # 16 Drive
from
Greville Ave around G.A.R. to Greville Ave

4+51.14 Int. P.C. Line G.A.R.
1+11.90
4+11.09 Int. "D" line
3+11.13 "B" Line
3+13.11 ?

$\Delta 8^{\circ}53' R$

3+00

2+71.78 E.C.

2+38.60 P.I.

2+04.53 B.C.

1+57.83 E.C.

1+07.78 P.I.

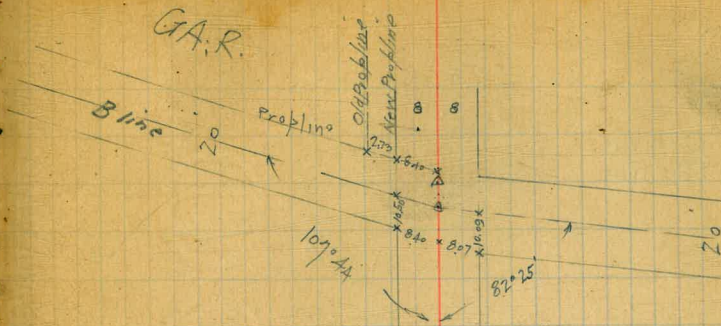
0+67.77 B.C.

0+00 "D" line =
0+10.27 "A" line

$\Delta = 27^{\circ}40' L$
 $R = 170.0$
 $T = 34.07$
 $L = 67.25$
 $Ex = 3.33$

$\Delta = 14^{\circ}50' R$
 $R = 350.0$
 $T = 45.56$
 $L = 90.61$
 $Ex = 2.95$

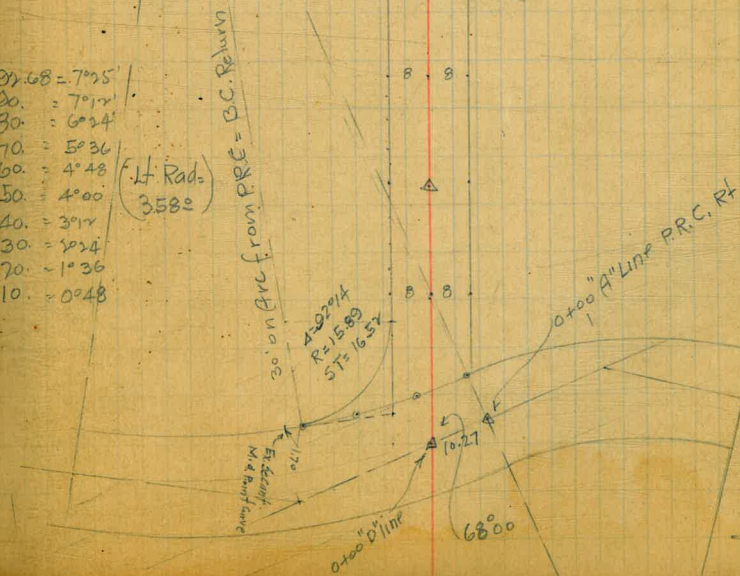
G.A.R.



Rad. 162.0
64.09 = $11^{\circ}20'$
60 = $10^{\circ}26'48''$
50 = $8^{\circ}50'40''$
40 = $7^{\circ}04'22''$
30 = $5^{\circ}18'54''$
20 = $3^{\circ}34'16''$
10 = $1^{\circ}46'08''$

92.68 = $7^{\circ}35'$
80 = $7^{\circ}17'$
80 = $6^{\circ}24'$
70 = $5^{\circ}36'$
60 = $4^{\circ}48'$
50 = $4^{\circ}00'$
40 = $3^{\circ}12'$
30 = $2^{\circ}24'$
20 = $1^{\circ}36'$
10 = $0^{\circ}48'$

(L Rad.)
3582



4+35.80	21.7	20.2
2 58.76	13.49	51.70
77.84	27.87	33.40

"D" line

8+
0+

8+0

7+

7-

11+81.28 "D" line =
3+56.76 "A" line Int.

6-

-0

5

11+00

Hub.

10+00

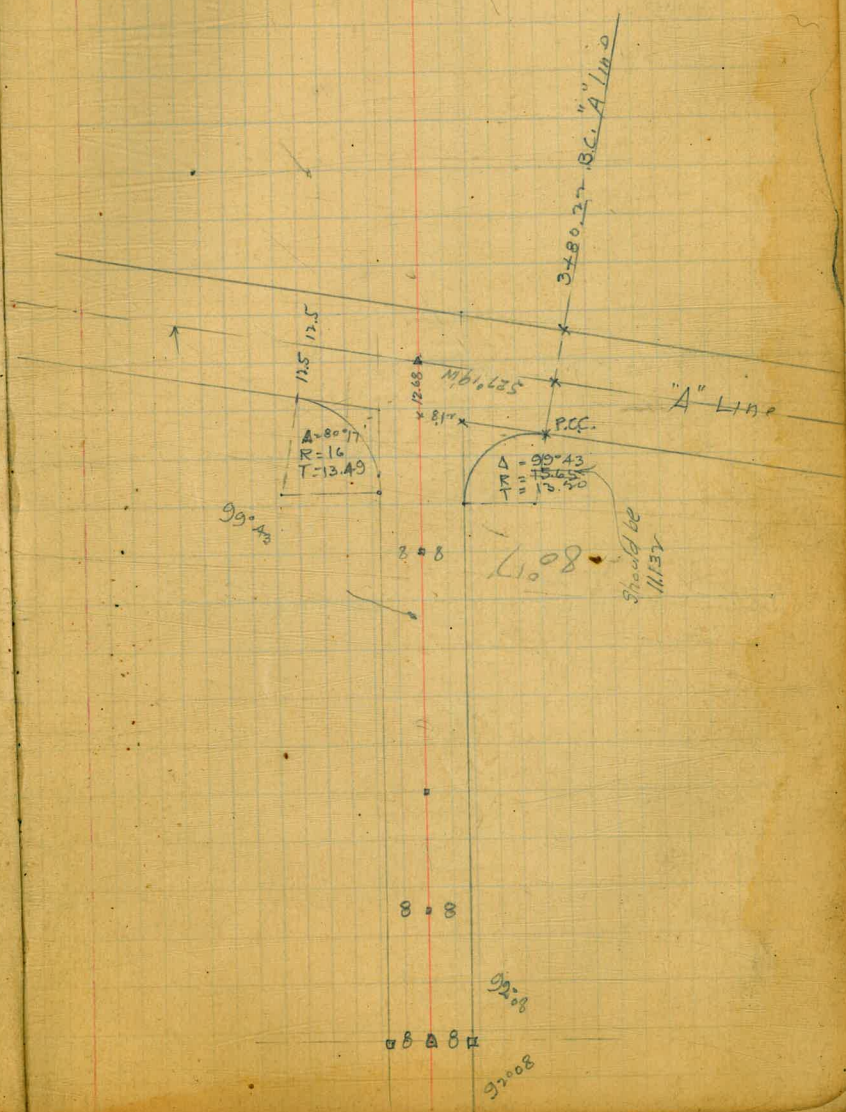
Hub.

9+50

Hub.

8+97.6

4401614



Survey "E" line

"see page 11 for cont."

2+62.73 "E" Line
Int. S.T. "A" line

2-

+56.25 Int. & Drive

Δ 87° 24' Rt to "A" line

1-

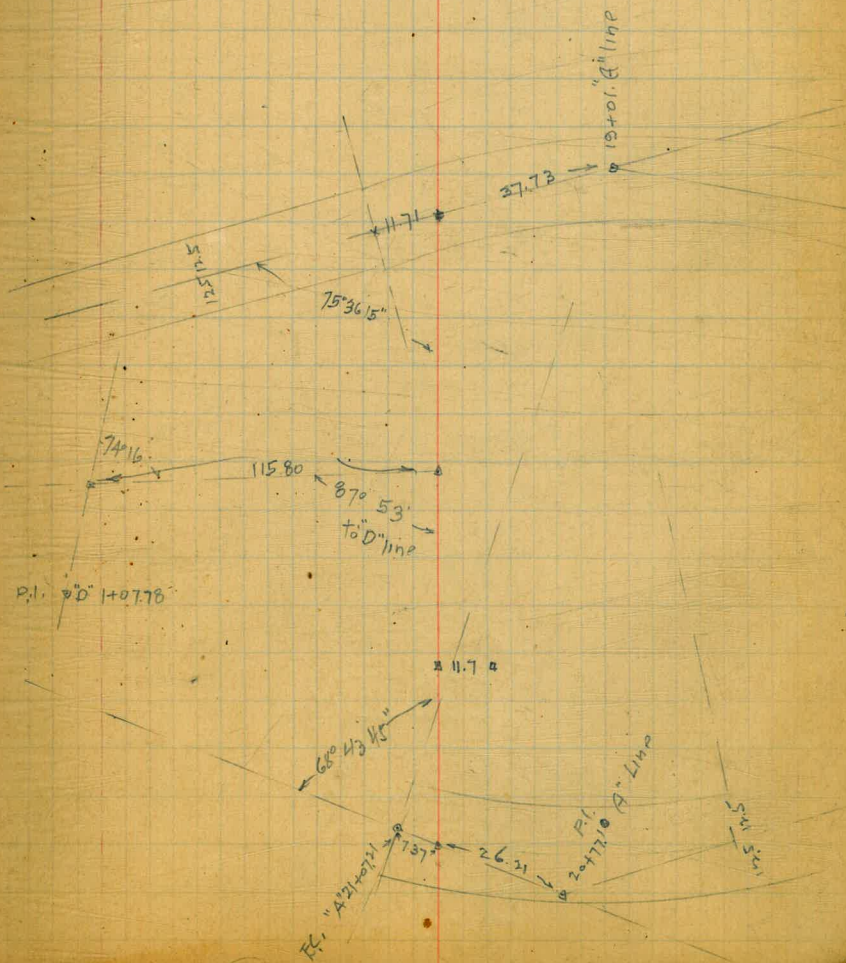
0+74.84 Hub

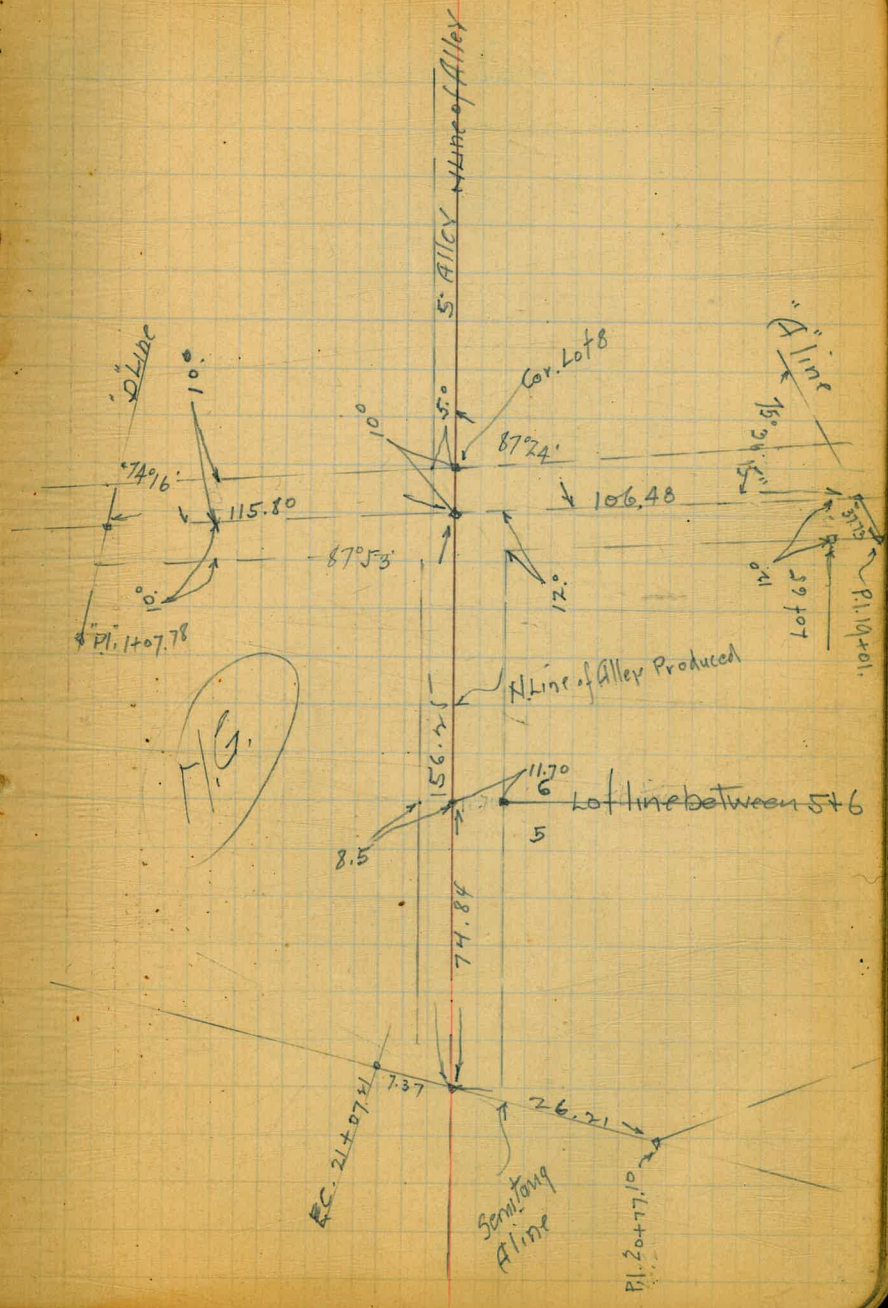
0+00

x

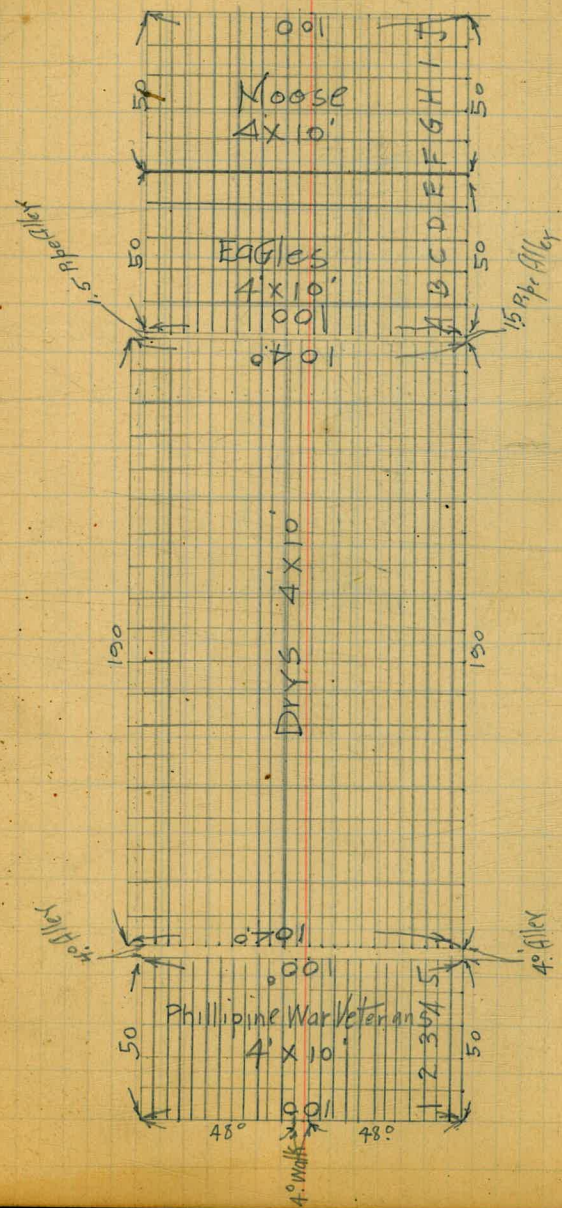
156.48

x





Plot Showing Moose Eagles Drys and Confederate War Veterans Mount Hope Cemetery



Jan 24 - 1919

14

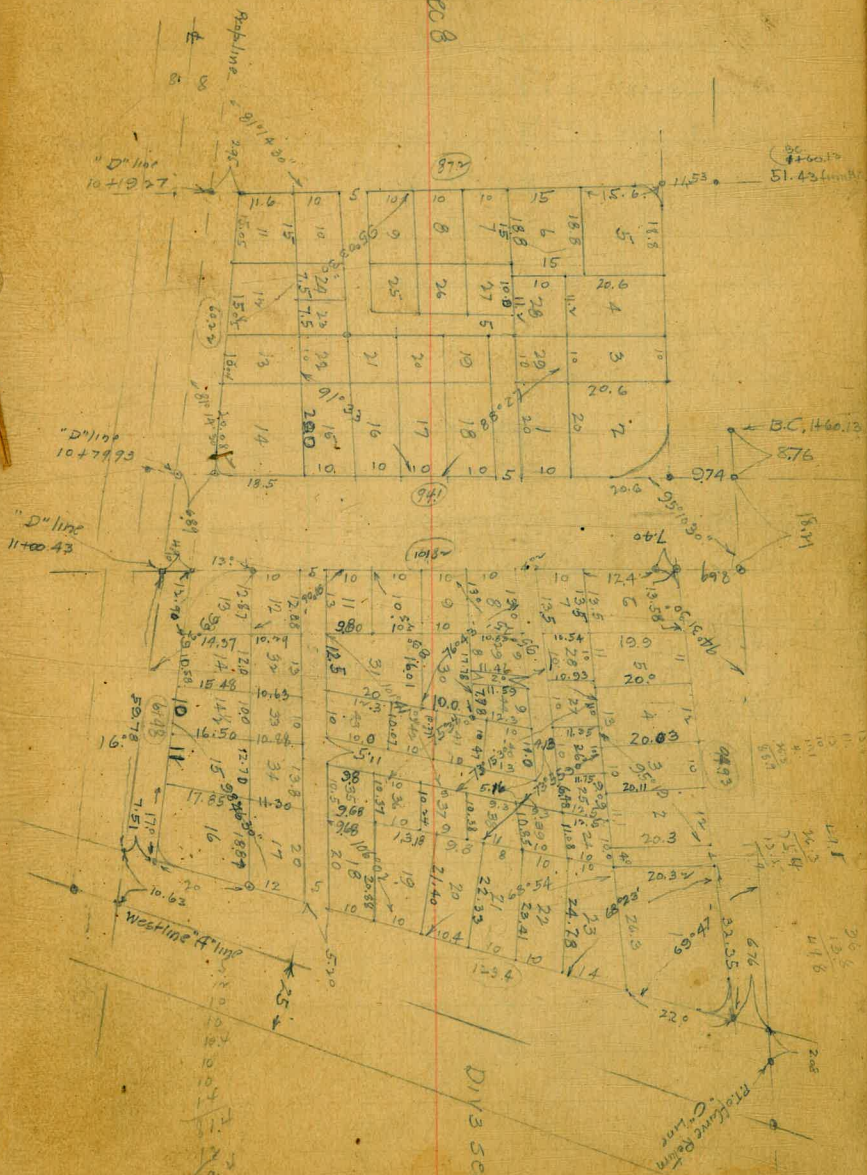
Williams
Ottens
Kaxon

26.97
2.76
18.21

DIV 3 SEC 8

1.00460

25.07776



47.4
37.6
9.8

56.
13.1
6.92

576
599
23
10.7
9.3
7.3
10.0
57.6
92.5
60.1

76.7109

7.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00

DIV 3 SEC 8

4-22-19

15

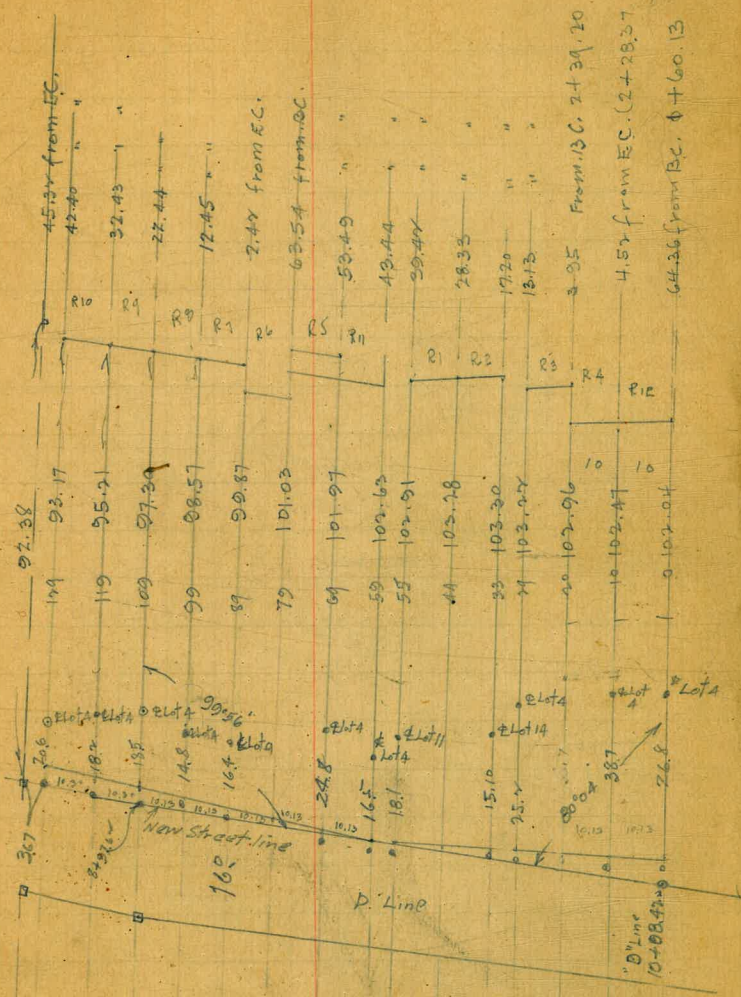
ON Row 10 $\frac{1}{2}$ Lot 16 = 12.3 : $\frac{1}{2}$ Lot 1 = 87.15 South from New Street line

" 9 $\frac{1}{2}$ Lot 17 = 7.0 : $\frac{1}{2}$ Lot 1 = 92.31 " " " "
 " 8 $\frac{1}{2}$ " 17 = 6.5 : $\frac{1}{2}$ " 1 = 94.41 " " " "
 " 7 $\frac{1}{2}$ " 17 = 13.5 : $\frac{1}{2}$ " 2 = 93.53 " " " "
 " 6 $\frac{1}{2}$ " 18 = 13.5 : $\frac{1}{2}$ " 2 = 93.35 " " " "
 " 5 $\frac{1}{2}$ " 19 = 7.5 : $\frac{1}{2}$ " 3 = 74.0
 " 11 $\frac{1}{2}$ " 18 = 13.0 : $\frac{1}{2}$ " 1 = 92.2

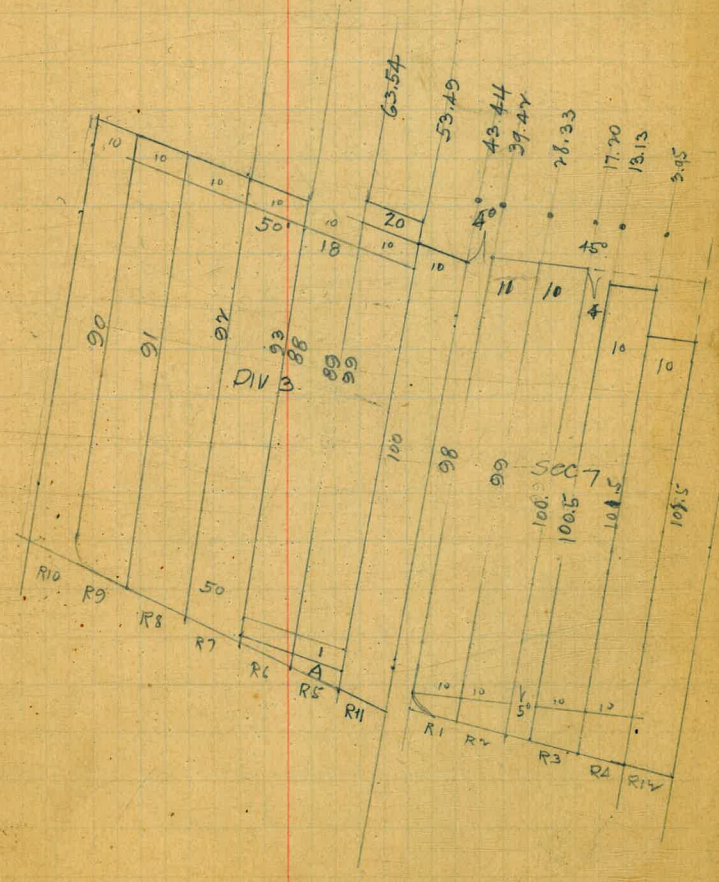
Alley

ON Row ^{Esido} $\frac{1}{2}$ " 20 = 7.15 $\frac{1}{2}$ Lot 1 = 99.05 ✓
 " 1 $\frac{1}{2}$ " D = 15.45 $\frac{1}{2}$ " F = 94.83 ✓
 " 2 $\frac{1}{2}$ " 24 = 33.8 $\frac{1}{2}$ " 14 = 90.85 ✓
 " Esido Rv " 29 = 74.5 $\frac{1}{2}$ " A = 97.63 ✓
 " 3 $\frac{1}{2}$ " 18 = 7.9 $\frac{1}{2}$ " A = 96.44 ✓
 " 4 $\frac{1}{2}$ " 12 = 26.2 $\frac{1}{2}$ " B = 46.20 ✓
 " Esido A $\frac{1}{2}$ " 15 = 7.5 $\frac{1}{2}$ " B = 90.75 ✓
 " 12 $\frac{1}{2}$ " 18 = 4.25 $\frac{1}{2}$ " 1 = 89.8 ✓

G.A.R.



93.46



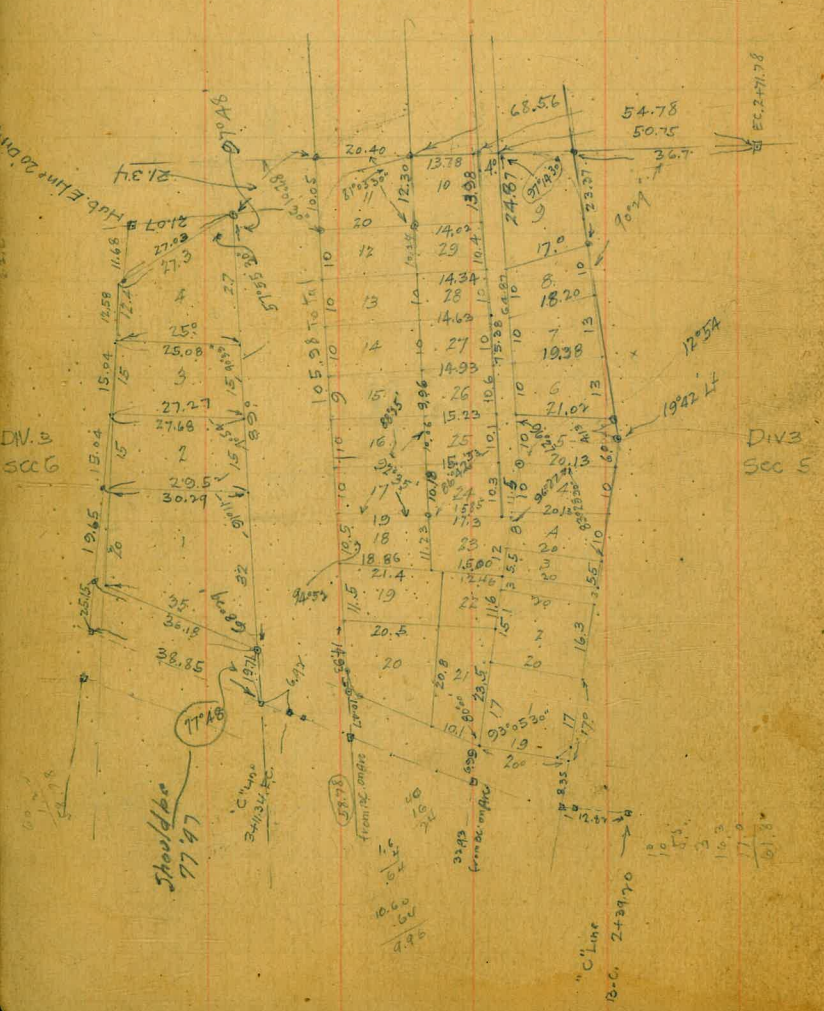
117.50
62

Williams
Otten
Maxon
Jan 21-1919

27
15
54
87

33.86
21.40
55.26

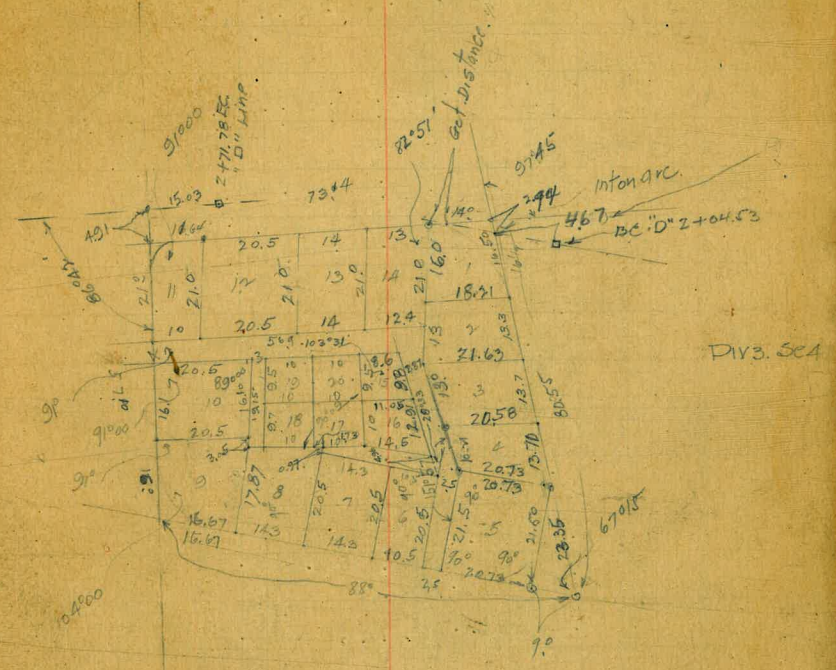
20
10.4
11.5
21.0



16.50
13.54
29.96

Williams
Otten
Maxon
Jan 20-1919

17



4-22-19 19
 Oelger
 Williams

Mount Hope Cemetery - Subdivision -



Division between Div 3 Sec 7 & 8

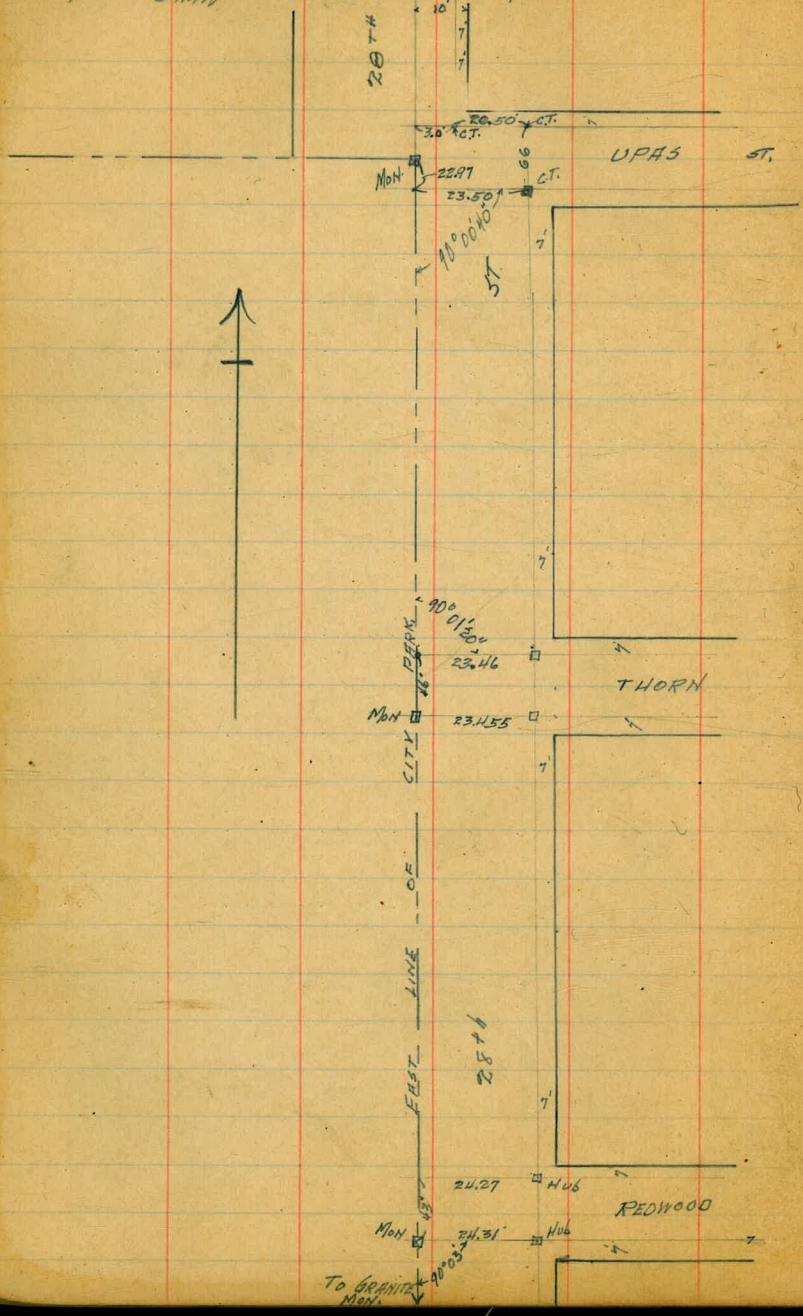


Division between Div 3 Secs 8 & 9

89-76

193

6/23/19 GREGORY 28th St Survey from
Miller to Uvas
Shaw Redwood 37 47 Myrtle



6/24/19 Gregory Miller Saw

CROSS SECTION OF → 70' wide
28th St 80' CB
from S.L. Upas to S.L. Thorn 75' 1/4's

333.07

23

2.03 333.07 331.04 NE Upas + Utah
Cement Curb + Sidewalk in on E Side from SL Upas to 100' So.
S.L. Upas

on Cement Cb.	4.27	328.80 = constant.
E Cb	4.9	328.2
1/4	4.9	328.2
c	4.6	328.5
1/4	4.6	328.5
cb	4.4	328.7
W.	4.3	328.8

125' So.

W	4.4	328.7
cb	4.8	328.3
1/4	4.6	328.5
c	4.6	328.5
1/4	4.9	328.2
cb	5.0	328.1

25' So.

E cb	5.2	327.9
1/4	4.9	328.2
c	4.7	328.4
1/4	4.6	328.5
cb	4.9	328.2
+15	5.3	327.8
+17	4.6	328.5
W	4.4	328.7

50' So.

W	4.9	328.2
+4	5.3	327.8
+5	5.9	327.2
cb	5.2	327.9
1/4	4.9	328.2
c	5.2	327.9
1/4	5.5	327.6
cb	5.5	327.6

75' So.

E. cb.	5.8	327.3
1/4	5.7	327.4
c	5.5	327.6
1/4	5.4	327.7
cb	5.7	327.4
+14	6.2	326.9
+16.	4.9	328.2
W	4.7	328.4

100' So. = So. End Cement Cb on East.

W	5.9	327.2
+4	5.9	327.2
+5	6.7	326.4
cb	5.9	327.2
1/4	5.7	327.4
c	5.8	327.3
1/4	6.1	327.0

333.07

cb	6.1	3269
cb.	do not use for yardage (566)	
E.	53	3278
	125' So.	
E	63	3268
+3	57	3274
+17	60	3271
+19	67	3264
cb	68	3263
1/4	65	3266
C	62	3269
1/4	63	3268
cb	65	3266
+14	69	3262
+16	60	3271
W	59	3272
	150' So.	
W	58	3273
+4	58	3273
+6	69	3262
cb	68	3263
1/4	67	3264
C	67	3264
1/4	70	3261
cb	69	3262
+5	64	3267

28th St.

24

E	7.0	3261
	164' So.	
E	7.3	3258
cb	7.1	3260
1/4	7.2	3259
C	7.0	3261
1/4	7.0	3261
cb	6.8	3263
W	6.8	3263
	188' So.	
W	5.9	3272
cb	7.3	3258
1/4	7.3	3258
C	7.2	3259
1/4	7.1	3257
cb	7.4	3257
E	7.7	3254
	205' So.	
E	7.7	3254
cb	7.0	3261
1/4	6.9	3262
C	7.0	3261
1/4	7.1	3257
cb	7.1	3257
W	6.7	3264

333.07

225' So.

W	6.2	326.7
cb	7.1	326.0
1/4	7.2	325.7
c	7.5	325.6
1/4	7.3	325.8
cb	7.7	325.4
E	7.9	325.2

250' So.

E	7.8	325.3
cb	7.7	325.4
1/4	7.5	325.6
c	7.5	325.6
1/4	7.4	325.7
cb	7.5	325.6
W	7.1	326.0

275' So.

W	6.5	326.6
cb	7.1	326.0
1/4	7.2	325.9
c	7.1	326.0
1/4	7.6	325.5
cb	7.5	325.6
E	8.1	325.0

28th St.

25

303' So.

E			7.8	325.3
cb			7.0	326.1
1/4			7.4	325.7
c			7.3	325.8
1/4			7.1	326.0
T.P.	4.6	330.76	6.95	326.12
cb			4.6	326.2
W			4.6	326.2

333' So.

W			4.6	326.2
cb			4.9	325.9
1/4			5.2	325.6
c			5.5	325.3
1/4			5.7	325.1
cb			5.6	325.2
E			5.9	324.9

355' So.

E			5.8	325.0
cb			5.3	325.5
1/4			4.9	325.9
c			4.7	326.1
1/4			4.9	325.9
cb			5.0	325.8
W			4.7	326.1

330.76

400' 30.

W	5.1	325.7
db	5.1	325.7
1/4	5.2	325.6
c	5.5	325.3
1/4	5.4	325.4
db	5.5	325.3
E	5.6	325.2

435' 30.

E	5.8	325.0
db	5.8	325.0
1/4	5.7	325.1
c	5.7	325.1
1/4	5.4	325.4
db	5.1	325.7
W	5.3	325.5

465' 30.

W	5.9	324.9
db	6.0	324.8
1/4	5.9	324.9
c	6.0	324.8
1/4	5.9	324.9
db	6.0	324.8
E	5.6	325.2

495' 30.

E	6.7	324.1
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28th ST.

26

db	7.0	323.8
1/4	6.7	324.1
c	6.6	324.2
1/4	6.7	324.1
db	6.7	324.1
W	6.7	324.1

515' 30.

W	7.5	323.3
db	7.0	323.6
1/4	6.5	324.3
c	6.4	324.4
1/4	6.5	324.3
db	7.0	323.8
E	6.9	323.9

540' 30.

E	7.5	323.3
db	7.9	322.9
1/4	7.9	322.9
c	7.9	322.9
1/4	7.7	323.1
db	7.5	323.3
W	7.9	322.9

555' 30.

W	8.1	322.7
db	8.4	322.4
1/4	8.4	322.4

330.76

c	8.5	322.3
1/4	8.1	322.7
cb	7.8	323.0
E	7.5	323.3

575' So.

E	8.1	322.7
cb	8.5	322.3
1/4	8.9	321.9
c	9.1	321.7
1/4	9.0	321.8
cb	8.9	321.9
W	9.0	321.8

600' So. = N.L. THORN ST. 60' wide.

W	10.0	320.8
cb	9.2	321.6
1/4	8.9	321.9
c	9.1	321.7
1/4	9.3	321.5
cb	9.1	321.7
E	8.6	322.2

No. Curb.

E	8.9	321.9
cb	9.3	321.5
1/4	9.3	321.5
c	9.1	321.7
1/4	9.1	321.7

28th St

27

cb	9.4	321.4
W	9.9	320.9

No. Quarter

W	10.1	320.7
cb	9.6	321.2
1/4	9.4	321.4
c	9.4	321.4
1/4	9.4	321.4
cb	9.4	321.4
E	9.3	321.5

Center

E	9.7	321.1
cb	9.9	320.9
1/4	9.9	320.9
c	9.9	320.9
1/4	10.0	320.8
cb	10.3	320.5
W	10.7	320.1

So. Quarter

W	11.2	319.6
cb	11.0	319.8
1/4	10.7	320.1
c	10.4	320.4
1/4	10.2	320.6
cb	10.0	320.8
E	9.8	321.0

330.76

So. Curb

E	9.9	320.9
df	10.4	320.4
1/4	10.5	320.3
C	10.8	320.0
1/4	11.1	319.7
df	11.3	319.5
W	11.5	319.3

So. LINE THORN ST.

W	11.5	319.3
df	11.3	319.5
1/4	11.2	319.6
df	11.1	319.7
1/4	10.8	320.0
df	10.7	320.1
E	10.4	320.4

chk BM.

7.26

322.50
323.11NE Thorn
& Grandq

28th St

28

Levels. Voltaire St from W. Line Rosecrans

St To E. Line of Willow
 B.M. S.W. brass plg Rosecrans & Xenophon 18.01
 B.M. 0.25 18.26

0+0 = W.L. Rosecrans

No		4.7	13.6	✓
ctr		4.5	13.8	
S		3.9	14.4	✓
T.P.	12.51	27.63	3.14	15.12

0+03 west

S		8.5	19.1	✓
ctr		9.7	17.9	
N		9.9	17.7	✓

0+25

N		7.6	20.8	✓
ctr		7.3	20.3	
S		6.1	21.5	✓

0+50

S		3.9	23.7	✓
ctr		4.1	23.5	
N		5.1	22.5	✓
T.P.	11.94	38.54	1.03	26.60

0+75

N		13.9	24.6	✓
ctr		12.5	26.0	
S		10.8	27.7	✓

38.54

1+0

29

S		7.6	30.9	✓
ctr		9.4	29.1	
N		12.3	26.2	✓

1+25

N		10.8	27.7	✓
ctr		8.8	29.7	
S		4.8	33.7	✓

1+50

S		3.1	35.7	✓
ctr		5.1	33.4	
N		6.6	31.9	✓

T.P.	12.47	49.83	1.18	37.36
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STONE 9'
E of 30' LINE

1+75

N		11.3	38.5	✓
ctr		9.6	40.2	
S		7.9	41.9	✓

T.P.	12.73	61.88	0.68	49.15
------	-------	-------	------	-------

2+0

S		11.3	50.6	✓
ctr		12.3	49.6	
N		14.8	47.1	✓

61.88

2+25

N			6.1	55.8	✓
ctr			3.0	58.9	
S			4.1	57.8	✓
T.P.	12.48	73.96	0.40	61.48	

2+50

S			10.6	63.4	✓
ctr			9.2	64.8	
N			9.4	64.6	✓
T.P.	12.17	85.56	0.57	73.39	

2+75

N			12.6	73.0	✓
ctr			12.5	73.1	
S			17.9	67.7	✓

370 = E.L. Locust 5+

S			16.4	69.2	✓
ctr			7.7	77.9	
N			4.4	81.2	✓
T.P.	12.12	97.35	0.33	85.23	

E Locust

N			6.4	91.0	✓
ctr			12.8	84.6	
S			21.8	75.6	✓

97.35

W.L. Locust

S			20.4	77.0	✓
ctr			7.8	89.6	
N			+ 0.4	97.5	✓
T.P.	12.24	108.38	1.21	96.14	

0+25 west

N			7.0	101.4	✓
ctr			15.4	93.0	
S			30.1	78.3	✓

0+50

S			30.3	78.1	✓
ctr			14.9	83.5	
N			4.3	104.1	✓

0+75

N			3.1	105.3	✓
ctr			15.1	93.3	
S			31.6	76.8	✓

170

S			34.1	74.3	✓
ctr			17.0	89.4	
N			2.4	106.0	✓

1725

N			3.0	105.4	✓
ctr			20.1	88.3	
S			34.9	73.5	✓

		108.38			
		1750			
S			25.8	82.6	✓
ctr			18.3	90.1	
N			1.7	106.7	✓
T.P.	12.34	118.97	1.75	106.63	
		1775			
N			9.3	109.7	✓
ctr			26.3	92.1	
S			35.7	83.3	✓
		2+0			
S			35.0	84.0	✓
ctr			22.2	96.8	
N			6.4	112.6	✓
		2+25			
N			4.1	114.9	✓
ctr			20.2	98.8	
S			30.3	88.7	✓
		2+50			
S			29.7	89.3	✓
ctr			18.6	110.4	
N			2.3	116.7	✓
		2+75			
N			0.2	118.8	✓
ctr			15.8	103.2	
S			25.3	93.7	✓

					31
		118.97			
		3+0 = EL. Evergreen St			
S			21.7	97.3	
ctr			14.9	104.1	
T.P.	11.75	130.22	0.50	118.47	
N			8.8	121.4	✓
		±			
N			5.9	124.3	✓
ctr			22.4	107.8	
S			26.7	103.5	✓
		W.L. Evergreen			
S			22.0	108.2	
ctr			23.9	106.3	
N			4.2	126.0	✓
		0+25 west			
N			1.6	128.6	✓
ctr			18.2	117.0	
S			23.2	106.4	✓
		0+50			
S			15.8	114.4	✓
ctr			16.7	113.5	
N			0.1	130.1	✓
		0+75			
N			0.2	130.0	
ctr			20.0	110.2	
S			7.9	122.3	✓

		130.22		
		1+0		
S			11	129.1 ✓
CTF			21.8	108.4
T.P.	12.25	139.78	2.69	127.53
N			9.9	129.9 ✓
		1+25		
N			9.7	130.1 ✓
CTF			22.7	117.1
S			6.4	133.4 ✓
		1+50		
S			2.2	137.6 ✓
CTF			16.9	122.9
N			10.9	128.9 ✓
		1+75		
N			12.5	127.3 ✓
CTF			10.6	129.2
S			0.6	139.2 ✓
		2+0		
S			+1.4	141.2 ✓
CTF			3.1	136.7
N			10.7	129.1 ✓
T.P.	12.48	152.00	0.26	139.52
		2+25		
N			24.1	127.9 ✓
CTF			10.0	142.0
S			3.5	148.5 ✓

		152.00		32
		2+50		
S			+2.4	154.4 ✓
CTF			4.8	147.2
N			13.5	138.5 ✓
T.P.	12.32	163.60	0.72	151.28
		2+75		
N			14.6	149.0 ✓
CTF			10.4	153.2
S			4.6	159.0
T.P.	10.10	170.08	3.62	159.98
		3+0 = E.L. of Willow		
S			1.5	168.6
CTF			2.9	167.2
N			3.0	167.1

Levels Udal St from W. Line Rosecrans St
To E. Line of Willow

B.M. S.W. Brass Pt Rosecrans & Xenophon 18.01

B.M. 0.25 18.26

T.P. 9.65 24.77 3.14 15.12

0+0 = W. Line Rosecrans

N 11.4 13.4 ✓

ctr 12.9 11.9

S 13.5 11.3 ✓

0+02

S 11.4 13.4 ✓

ctr 12.0 12.8

N 8.5 16.3 ✓

0+25

N 6.5 18.3 ✓

ctr 9.5 15.3

S 9.1 15.7 ✓

0+50

S 6.7 18.1 ✓

ctr 5.8 19.0

N 4.6 20.2 ✓

0+75

N 2.1 22.7 ✓

ctr 2.8 22.0

S 4.2 20.6 ✓

T.P. 12.56 37.32 0.01 24.76

37.32

33

1+0

S 14.2 23.1 ✓

ctr 12.0 25.3

N 11.0 26.3 ✓

1+25

N 6.8 30.5 ✓

ctr 9.3 28.0

S 11.7 25.6 ✓

1+50

S 7.6 29.7 ✓

ctr 4.7 32.6

N 0.2 37.1 ✓

T.P. 12.51 49.27 0.56 36.76

1+75

N 6.0 43.3 ✓

ctr 10.9 39.4

S 14.4 34.9 ✓

2+0

S 5.8 43.5 ✓

ctr 0.5 48.8

T.P. 12.91 62.04 0.14 49.13

N 7.3 54.7 ✓

T.P. 12.83 74.73 0.14 61.90

2+25

N 9.8 64.9 ✓

ctr 14.8 59.9

S 21.4 53.3 ✓

74.73

2+50

S			8.9	65.8	✓
CTV			3.4	71.3	
T.P.	12.56	86.97	0.32	74.1	
N			12.4	74.6	✓

2+75

N			2.4	83.6	✓
CTV			6.0	81.0	
S			11.1	75.9	✓

3+0 = E.L. Locust

S			1.4	85.6	✓
T.P.	12.36	98.84	0.49	86.48	
CTV			7.6	91.2	
N			5.5	93.3	✓
T.P.	12.73	111.07	0.50	98.84	

E Locust

N			6.9	104.2	✓
CTV			7.4	103.7	
S			12.0	99.1	✓
T.P.	12.33	123.04	0.36	110.71	

W.L. Locust

S			11.79	111.3	✓
CTV			9.4	113.6	
N			9.8	113.2	✓

34

123.04

0+25 West

N			4.5	118.5	✓
CTV			3.7	119.3	
S			4.0	119.0	✓
T.P.	12.46	134.97	0.53	122.5	✓

0+50

S			9.1	125.9	✓
CTV			10.5	124.5	
N			12.4	122.6	✓

0+75

N			7.9	127.1	✓
CTV			6.0	129.0	
S			3.7	131.3	✓
T.P.	12.23	146.47	0.73	134.24	

1+0

S			10.0	136.5	✓
CTV			12.9	133.6	
N			14.3	132.2	✓

1+25

N			9.9	136.6	✓
CTV			8.1	138.4	
S			5.8	140.7	✓

1+50

S			0.6	145.9	✓
CTV			3.2	143.3	
N			5.0	141.5	✓
T.P.	12.35	158.02	0.80	145.67	

158.02
1775

N	11.6	146.4	✓
ctr	9.6	148.4	
S	7.6	150.4	✓

2+0

S	3.6	154.4	✓
ctr	5.2	152.8	
N	6.7	151.3	✓

2+25

N	1.8	156.2	✓
ctr	0.6	157.4	
T.P.	12.60	170.05	0.57 157.45
S	11.0	159.1	✓

2+50

S	6.3	163.7	✓
ctr	8.3	161.8	
N	9.9	160.2	✓

2+75

N	7.0	163.1	✓
ctr	3.9	166.2	
S	2.6	167.5	✓
T.P.	12.39	181.87	0.57 169.48

3+0 = E.L. Evergreen

S	10.4	171.5	✓
ctr	12.2	169.7	
N	15.4	166.5	✓

181.87

35

E Evergreen

N	11.9	170.0	✓
ctr	7.8	174.1	
S	5.1	176.8	✓

W.L. Evergreen

S	1.4	180.5	✓
ctr	4.0	177.9	
N	9.6	172.3	✓

0+25 West

N	7.2	174.7	✓
ctr	2.7	179.2	
T.P.	10.96	191.60	1.23 180.64
S	9.2	182.4	✓

0+50

S	7.6	184.0	✓
ctr	10.4	181.2	
N	17.2	179.4	✓

0+75

N	16.9	174.7	✓
ctr	11.2	180.4	
S	7.3	184.3	✓

1+0

S	6.1	185.5	✓
ctr	9.2	182.4	
N	14.5	177.1	✓

191.60

1+25

N	12.2	179.4	✓
CTV	8.7	182.9	
S	4.5	187.1	✓

1+50

S	3.8	187.8	✓
CTV	7.5	184.1	
N	10.9	180.7	✓

1+75

N	9.6	182.0	✓
CTV	5.3	186.3	
S	2.3	189.3	✓

2+0

S	2.1	189.5	✓
CTV	5.0	186.6	
N	8.4	183.2	✓

2+25

N	6.9	184.7	✓
CTV	3.5	188.1	
S	1.4	190.2	✓

T.P.	5.67	194.04	3.23	188.37
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2+50

S	3.4	190.6	✓
CTV	6.5	187.5	
N	9.1	184.9	✓

194.04

2+25

N	8.4	185.6	✓
CTV	6.0	188.0	
S	3.0	191.0	✓

2+99

S	2.0	192.0	
CTV	4.0	190.0	
N	7.6	186.4	

3+0 = E.L. Willow

N	9.5	184.5	✓
CTV	8.6	185.4	
S	7.6	186.4	
B.M. S.M. Willow & Udal		6.88	187.16

36

Levels Evergreen St from S.L. Whittier to
N.L. Tennyson

B.M. S.W. Brass Plg Voltaire & Willow 169.35

^{7/24} Dunkle
^{1/19} Evans
Foleke

147.36

T.P. 1.00 170.35 12.98 157.37

1+50

0+0 = S.L. Whittier

W 6.9 151.7 ✓
ctr 10.4 148.2
E 14.1 144.5 ✓

W 7.0 140.4 ✓
ctr 9.5 137.9
E 12.8 134.6

0+25 South

E 13.7 144.9 ✓
ctr 10.2 148.4
W 6.5 152.1 ✓

T.P. -0.01 134.47 12.88 134.48
1+75

E 5.1 129.4 ✓
ctr 1.6 132.9
W +0.1 134.6 ✓

0+50

W 6.4 152.2 ✓
ctr 10.4 148.2
E 13.8 144.8 ✓

2+0 = N.L. Voltaire

W 8.5 126.0 ✓
ctr 10.2 124.3
E 13.1 121.4 ✓

0+75

E 14.7 143.9 ✓
ctr 11.1 147.5
W 7.6 151.0 ✓

T.P. 0.17 121.69 12.95 121.52
T.P. 1.18 110.07 12.80 108.89

± Voltaire

E 6.0 104.1 ✓
ctr 2.3 107.8
W 3.8 106.3 ✓

1+0

W 9.9 148.7 ✓
ctr 12.9 145.7
E 16.4 142.2 ✓
T.P. 1.00 147.36 12.19 146.36

Dist. Sou of ± Voltaire W.L. 12' ± 21' E.L. 21'

W 12.5 97.6 ✓
ctr 16.4 93.7
E 19.8 90.3 ✓

S.L. Voltaire

E 8.8 138.6 ✓
ctr 5.1 142.3
W 2.3 145.1 ✓

E 12.8 97.3 ✓
ctr 6.6 103.5
W 1.9 108.2 ✓

110.07

T.P.	11.57	121.62	0.02	110.05
	0+25 500 of Volt/airc			
W			1.1	109.0 ✓
CTE			5.3	104.8
E			10.0	100.1 ✓
T.P.	12.51	133.98	0.15	121.47
	0+50			
E			10.7	123.3 ✓
CTE			4.8	129.2
W			2.3	131.7 ✓
T.P.	12.59	146.24	0.33	133.65
	0+75			
W			5.1	141.1 ✓
CTE			7.6	138.6
E			11.6	134.6 ✓
	1+0			
E			3.1	143.1 ✓
T.P.	12.70	158.11	0.83	145.41
CTE			11.6	146.5
W			8.5	149.6 ✓
	1+25			
W			1.7	156.4 ✓
CTE			3.6	154.5
E			7.4	150.7 ✓
T.P.	12.76	170.16	0.71	157.40

170.16

138

E			12.8	157.4 ✓
CTE			10.1	160.1
W			7.6	162.6
	1+75			
W			2.4	167.8
CTE			5.0	165.2
E			7.7	162.5 ✓
	2+0 = N.L. Udal ST			
E			3.7	166.5 ✓
CTE			0.2	170.0
T.P.	12.52	182.36	0.32	169.84
W			10.1	172.3 ✓
	1. S. Udal			
W			4.5	177.9 ✓
CTE			8.3	174.1
E			12.7	169.7 ✓
	S.L. Udal			
E			10.9	171.5 ✓
CTE			5.6	176.8
W			1.7	180.7 ✓
T.P.	10.69	191.00	2.05	180.31
	0+25 500 of Udal ST			
W			9.1	181.9 ✓
CTE			13.4	177.6
E			19.4	171.6 ✓

191.00

0+50

E	18.1	172.9	✓
ctr	13.0	178.0	
W	8.7	182.3	✓

0+75

W	7.5	183.5	✓
ctr	12.1	178.9	
E	15.3	175.7	✓

1+0

E	15.0	176.0	✓
ctr	10.2	180.8	
W	5.8	185.2	✓

1+25

W	3.9	187.1	✓
ctr	8.2	182.8	
E	13.2	177.8	✓

1+50

E	12.3	178.7	✓
ctr	7.4	183.6	
W	3.4	187.6	✓

1+75

W	2.1	188.9	✓
ctr	7.1	183.9	
E	12.2	178.8	✓

39

2+0 = N.L. Tennyson St

E	10.9	180.1	✓
ctr	5.2	185.8	
W	1.2	189.8	✓

Levels Locust St from S.L. Whittier to
N.L. Tennyson

B.M.	7.45	103.59	96.14
	0+0 = S.L. Whittier		
W		8.9	94.7 ✓
ctr		18.9	84.7
E		29.7	73.9 ✓
	0+25 500		
E		27.2	76.4 ✓
ctr		15.7	87.9
W		6.9	96.7 ✓
	0+50		
W		5.2	98.4 ✓
ctr		15.0	88.6
E		27.2	76.4 ✓
	0+75		
E		25.5	78.1 ✓
ctr		13.7	89.9
W		3.6	100.0 ✓
	1+0		
W		2.7	100.9 ✓
ctr		13.2	90.4
E		22.8	80.8 ✓
	1+25		
E		22.0	81.6 ✓
ctr		12.2	91.4
W		2.5	101.1 ✓

		103.59		40
		1+50		
W			3.0	100.6 ✓
ctr			11.9	91.7
E			21.3	82.3 ✓
	1+75			
E			22.4	81.2 ✓
ctr			11.6	92.0
W			3.4	100.2 ✓
	2+0 = N.L. Voltairc			
W			6.1	97.5 ✓
ctr			12.6	91.0
E			22.4	81.2 ✓
	N. Voltairc			
E			25.7	77.9 ✓
ctr			18.8	84.8
W			13.5	89.8 ✓
T.P.	0.69	91.60	12.68	90.91
T.P.	0.43	80.42	11.61	79.99
	S.L. Voltairc			
W			3.4	77.0 ✓
ctr			4.8	75.6
E			11.2	69.2 ✓
T.P.	0.39	68.60	12.21	68.21
	0+25 500			
E			10.8	57.8 ✓
ctr			9.0	59.6
W			5.1	63.5 ✓

		68.60			
		0+36			
W			9.1	59.5	
CTV			12.7	55.9	
E			15.8	52.8	✓
		0+50			
E			12.3	56.3	✓
CTV			4.6	64.0	
W			2.7	65.9	✓
T.P.	11.29	79.88	0.01	68.59	
		0+75			
W			1.6	78.3	✓
CTV			5.6	74.3	
E			8.8	71.1	✓
T.P.	12.36	91.79	0.45	79.43	
		1+0			
E			9.2	82.6	✓
CTV			5.5	86.3	
W			0.0	91.8	✓
T.P.	11.27	102.74	0.32	91.47	
		1+25			
W			0.2	102.5	✓
CTV			6.1	96.6	
E			12.7	90.0	✓
		1+50	X		
E			9.6	93.1	✓
CTV			1.0	101.7	
T.P.	12.40	114.63	0.53	102.21	
W			5.3	109.3	✓

		114.63			41	
		1+75				
W				3.6	111.0	✓
CTV				12.0	102.6	
E				20.8	93.8	✓
		2+0 = N.L. Udal st				
E				21.3	93.3	
CTV				10.4	104.2	
W				1.4	113.2	✓
		4 Udal st				
W				1.0	113.6	✓
CTV				10.9	103.7	
E				23.4	91.2	✓
		5. L. Udal				
E				29.0	85.6	✓
CTV				15.5	99.1	
W				3.4	111.2	✓
T.P.	1.73	108.90		7.46	107.17	
		0+25 500				
W				0.5	108.4	✓
CTV				13.7	95.2	
E				26.6	82.3	✓
		0+50				
E				31.2	77.7	✓
CTV				16.6	92.3	
W				3.9	105.0	✓

108.90

0+75

W		5.6	103.3	✓
CTV		19.4	89.5	
E		33.1	75.8	✓

1+0

E		37.8	71.1	✓
CTV		22.5	86.4	
W		8.0	100.9	✓
T.P.				

1+25

W		71.7	97.2	✓
T.P.	1.05	97.13	12.77	96.13
CTV		14.9	82.3	
E		30.1	67.1	✓

1+50

E		34.3	62.9	✓
CTV		19.5	77.7	
W		4.3	92.9	✓

1+75

W		8.5	88.7	✓
T.P.	5.55	91.62	11.11	86.07
CTV		18.0	73.6	
E		30.8	60.8	✓

2+0 = N.L. Tennyson

E		34.5	56.9	
CTV		19.0	72.6	
W		2.1	89.5	✓

42

8/30/19

Gregory

Elev on Broken Curbs Walk
in front of Blk 4 Episcopal Hgts
being N side Wash. W of Brant

73

	0.47	246.94	264.47	N.W. Corner 4 Wash
Pueblo Line West of Brant.	3.76		261.18	
150' W of Old W.L. of ✓	5.54		259.40	
120' - - - - -	6.21		258.73	
✓ ✓ - - - - - 3 Edge 5 Walk	6.21			
✓ ✓ - - - - - N - - -	6.20			
105' ✓ ✓ - - - - -	6.56			
✓ ✓ - - - - - sedge	6.59			
✓ ✓ - - - - - N ✓	6.42			
85' - - - - -	6.87	258.07		
74' ✓ ✓ - - - - -	6.92			side of walk
✓ ✓ - - - - - sedge	7.36			
✓ ✓ - - - - - N ✓	6.93			
65' ✓ ✓ - - - - -	6.99			
45' ✓ ✓ - - - - -	6.72			
25' ✓ ✓ - - - - -	6.63			
W Line of 70' Brant.	6.42			
Present ✓ ✓ 60' ✓	6.36			
Head of rat ✓ -	6.00			

Curb should be replaced from

74' W of Br. to 49' W of Br.

Walk from W.L. Br to 105' W. including rat.

9/3/19 Gregory Miller Shaw

CROSS SECTION OF 40' wide 8' walks
 Tyrant St
 from N.E. of Hollywood Dr
 To a point N. of Southern Dr

44

13.0

177.92

166.92

Hub SW
 Hollywood &
 Tyrant

100' No

N.E. Hollywood Dr

W	11.0
cl	10.9
1/4	10.7
C	10.9
1/2	11.2
cl	11.6
E	11.6
20' No	
E	10.7
cl	10.0
1/4	9.5
C	9.2
1/4	9.2
cl	9.1
W	10.0
50' No	
W	7.0
cl	6.3
1/4	6.0
C	6.1
1/4	6.3
cl	6.1
+5	6.7
+7	7.9
E	7.9

E

+2

+4

cl

1/4

C

1/2

cl

W

T.P.

1294

192.63

1.5

1.5

0.5

0.2

0.2

0.1

0.2

0.2

0.9

0.23

177.69

150' No

W

cl

1/4

C

1/4

cl

E

175' No

E

Already cut here on

H

Prop. Lines

cl

1/4

C

1/4

7.2

6.7

6.6

6.1

186.2

6.6

6.7

7.6

3.9

4.5

3.8

3.6

3.7

3.7

19203

db			3.6	
+7			4.2	
W			3.6	
	200' N.			
W	Already 4' cut here		2.0	
cb	on Prop.		1.0	
1/2			1.0	
c			0.7	
1/4			1.0	
db			1.2	
+4			2.3	
E	Already 2.5 cut here		1.0	
T.P.	11.97	20432	0.28	19235
		275' N.		
E	Already 2.8 cut here		7.8	
+2			9.8	
+5			10.3	
db			9.7	
1/4			9.9	
c			9.6	
1/4			9.6	
db			9.8	
+5			10.4	
+6			11.0	
+7			11.0	
W	Already 3.5 cut here		9.8	

Tyrant

45

		250' No.
W	Already 3.3 cut here	7.3
+3		8.1
db		7.3
1/4		6.7
c		6.5
1/4		6.7
db		7.2
+6		5.8
E	Already 3.5 cut here	4.4
	275' N.	
E	Already 3.7 cut here	1.9
+1		3.2
+6		4.5
cb		4.6
1/4		4.3
c		4.0
1/4		4.2
db		4.5
W	Already 4.6 cut here	5.5
	300' N.	
W	Already 3.8 cut here	3.0
db		2.1
1/4		2.0
c		1.7
1/4		2.1

2043~

cl			2.1	
+4			2.3	
E	Already 4.7' out here		1.1	
T.P.	12.67	216.70	0.29	204.03
		330'H		
E	Already 3.4' out here		10.2	
+1			11.6	
+4			12.~	
cl			11.7	
1/4			11.8	
c			11.6	
1/4			11.6	
cl			11.9	
W	Already 4.~ out here		13.0	
		360'H		
W	Already 3.6 out here		10.1	
+4			9.0	
cl			9.0	
1/4			8.8	
c			8.4	
1/4			8.8	
cl			9.0	
+5			9.6	
E	Already 3.8 out here		8.5	

Tyrant. ⁴¹³ 169446

388'H

E	Already 3.2 out here		6.3	
cl			5.1	
1/4			5.3	
c			5.5	
1/4			5.6	
cl			5.2	
+3			5.3	
W	Already 3' out here		6.4	
		400'H = 5.1 Southern Dr		
W			3.7	
cl			2.9	
1/4			3.0	
c			3.21	23.49 on hub.
1/4			3.0	
cl			3.2	
+5			3.6	
E			3.2	

9/3/19 Gregory

Levels on $\frac{1}{2}$ of
Survey Shown on Page 47

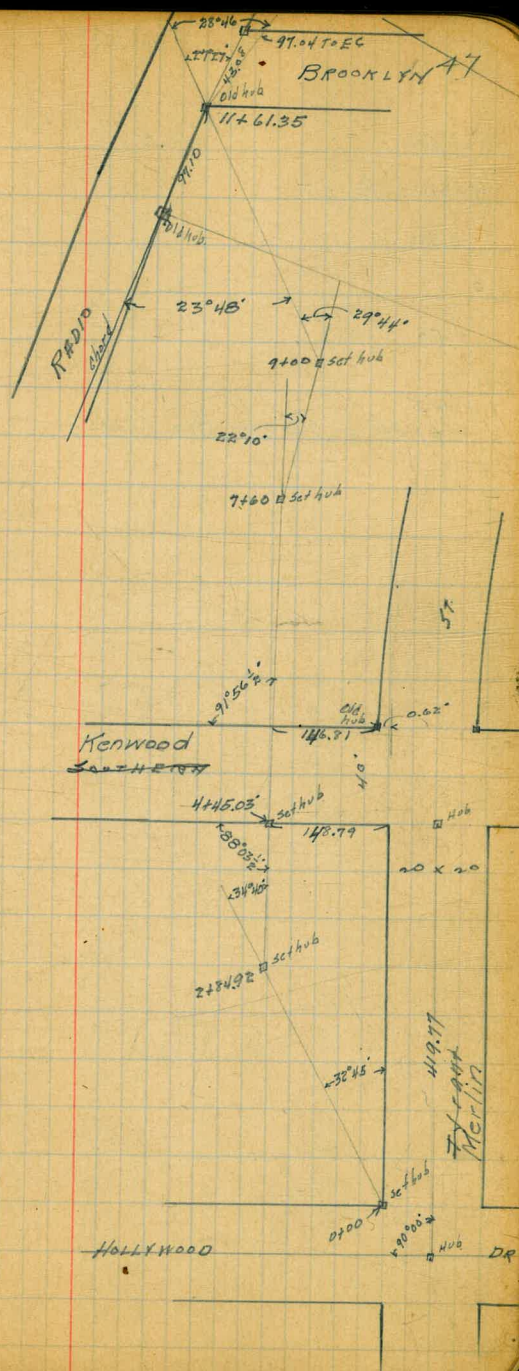
	1.00	180.69	179.69	T.P. 879c 44
0+00 = NW. Tyrant + Hollywood			11.7	169.0
B.M.			11.65	169.04
0+50			8.7	172.0
1+00			3.6	177.1
T.P.	12.31	192.81	0.19	180.50
1+50			9.6	183.2
+58			8.6	184.2
2			6.6	186.2
+50			5.2	187.6
+84.92 Δ pt			4.6	188.2
3+50			0.0	192.8
T.P.	12.72	205.29	0.22	192.57
4			10.5	194.8
B.M.			7.52	197.74
+50			7.1	198.2
5			5.3	200.0
+50			3.4	201.9
+70			2.1	203.2
+85			3.6	201.7
6			3.2	202.1
+50			2.1	203.2
T.P.	10.69	213.44	2.52	202.75
7			7.7	205.7
+60 = Δ pt			5.49	208.15
8			3.6	209.8

T.P. 879c
44

Hub NW
Hollywood + Tyrant

Hub at
4+15.03

on hub



21344

+50	2.1	211.3
9+00 = Δ pt.	33	210.1
+50	6.7	206.7
10	83	208.1
+50	8.7	204.7
11	9.9	203.5
+ 45	9.4	204.0
+ 61.35 = S.E. cor Brooklyn	11.5	201.9

48

12/8/21

Gregory
Moore
Miller

Location of hole
in paving
7th St between
Market & I St

Market

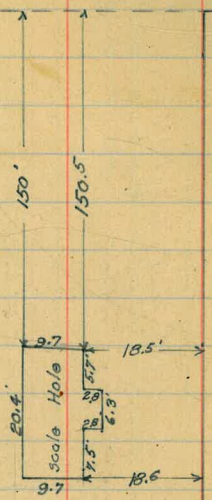
St.

St.

Seventh

I

St.



Note: from Res Line North for a distance 51' is only 30' wide
 but Xsectioned it 60' as it will probably be opened if improved.
 Please note also that curbs will have to be of varying widths to save trees etc.
 A more complete survey will be necessary if it is determined to improve.
 B.M. 2 nails in N.W. Corner Post of Reservoir site Catalina & U.S. Reservation

DENNIS
 MILLER
 WALBRECH
 DEC 28.

1.05	378.42 ✓		377.27 ✓
2.54	369.12 ✓	12.84	365.58 ✓
0.52	357.07 ✓	12.62	356.50 ✓
3.03	359.37 ✓	0.73	356.29 ✓
		0.90	358.47 ✓

B.M. 2 1/2" Pipe with 3" Cap Cap at West post of Silver Gate Ave ↗

Entrance to U.S. Reservation, Cap marked U.S.N. Cor.

Diagonal along Res Line;

W.L.		2.05	356.8 ✓
Cb.		2.05	356.8 ✓
1/4		2.2	357.1 ✓
±		2.0	357.2 ✓
1/2		1.9	357.4 ✓
Cb.		1.6	357.7 ✓
E.L.	on concrete slab across Reservoir gate ↗	1.5	357.8 ✓
co on E=13.80 on W:			
W.L.		1.5	357.8 ✓
Cb.		1.6	357.7 ✓
1/2		2.0	357.3 ✓
±		2.1	357.7 ✓
1/2		2.4	356.9 ✓
Cb.		2.7	356.6 ✓
W.L.		2.8	356.5 ✓

359.32 ✓

Silver Gate Ave 50

+50 W.L.

Cb

1/4

±

1/4

Cb.

E.L.

+100 E.L.

Cb

1/4

±

1/4

Cb

W.L.

+50 W.L.

Cb

1/4

±

1/4

Cb

E.L.

+100 E.L.

Cb

1/4

±

1/4

9.1 355.2 ✓

4.0 355.3 ✓

2.6 355.7 ✓

2.1 356.2 ✓

2.0 356.3 ✓

2.2 356.1 ✓

2.7 356.6 ✓

3.4 355.9 ✓

9.1 355.2 ✓

4.2 355.1 ✓

4.1 355.2 ✓

4.8 354.5 ✓

5.2 354.1 ✓

5.4 353.9 ✓

6.6 352.7 ✓

6.3 353.0 ✓

5.8 353.5 ✓

5.2 354.1 ✓

5.6 353.7 ✓

5.0 354.3 ✓

4.4 354.9 ✓

5.4 353.9 ✓

6.6 352.7 ✓

6.5 352.8 ✓

6.5 352.8 ✓

7.2 352.1 ✓

7
359.32 ✓

1/2	7.7	351.6 ✓
W.L.	8.0	351.3 ✓
2+50 W.L.	9.2	350.1 ✓
cb	8.8	350.3 ✓
1/2	8.2	351.0 ✓
±	7.7	351.6 ✓
1/2	7.8	351.5 ✓
cb	7.6	351.7 ✓
E.L.	6.8	352.5 ✓
3+00 E.L.	8.0	351.3 ✓
cb	8.9	350.4 ✓
1/2	8.9	350.4 ✓
±	8.9	350.4 ✓
1/2	9.5	349.8 ✓
cb.	10.2	349.1 ✓
W.L.	10.3	349.0 ✓
3+50 W.L.	11.7	347.6 ✓
cb	11.2	348.1 ✓
1/2	10.7	348.6 ✓
±	10.0	349.3 ✓
1/2	10.0	349.3 ✓
cb	10.0	349.3 ✓
E.L.	9.2	350.1 ✓
4+00 E.L.	10.4	348.9 ✓
cb.	11.1	348.2 ✓
1/2	11.2	348.1 ✓

7
359.32 ✓

Silver Gate Ave. 51

±	11.4	347.9 ✓
1/2	11.7	347.6 ✓
cb.	12.3	347.0 ✓
W.L.	12.5	346.8 ✓
4+50 W.L.	10.4	345.9 ✓
cb	13.1	346.7 ✓
1/2	12.8	346.5 ✓
±	12.3	347.0 ✓
1/2	11.9	347.4 ✓
cb	11.7	347.6 ✓
E.L.	11.4	347.9 ✓
5+00 E.L.	12.2	347.1 ✓
cb	12.6	346.7 ✓
1/2	12.6	346.7 ✓
±	13.2	346.1 ✓
1/2	13.4	345.9 ✓
cb.	14.2	345.1 ✓
W.L.	14.2	345.1 ✓
#	3.31	349.74 ✓
5+00 W.L.	12.89	346.93 ✓
cb	3.8	346.9 ✓
1/2	3.6	346.1 ✓
±	3.6	346.1 ✓
±	3.9	345.8 ✓
1/2	4.6	345.1 ✓
cb	5.2	344.5 ✓
E.L.	5.3	344.4 ✓

349.74

6+00 W.L.	5.5	344.2 ✓
cb	5.7	344.5 ✓
1/2	4.6	345.1 ✓
±	4.2	345.5 ✓
1/2	4.1	345.6 ✓
cb.	3.5	345.9 ✓
E.L.	3.3	346.4 ✓
6+50 E.U.	3.5	346.2 ✓
cb	4.0	345.7 ✓
1/2	4.5	345.2 ✓
±	4.5	345.2 ✓
1/2	5.6	344.1 ✓
cb.	5.8	343.9 ✓
W.L.	5.8	342.9 ✓
7+00 W.L.	6.2	342.5 ✓
cb.	5.7	344.0 ✓
1/2	5.2	344.5 ✓
±	4.7	345.0 ✓
1/2	4.5	345.2 ✓
cb.	4.2	345.5 ✓
E.L.	4.0	345.7 ✓
7+0900 = N.L. PL 102 00 = S.L. 104	3.8	345.9 ✓
cb	4.5	345.2 ✓
1/2	4.5	345.2 ✓
# ± on Concrete ± Moss:	4.74	345.00 ✓
1/2	4.7	345.0 ✓

349.74

Silver Gate Ave:

52

cbi	5.4	344.2 ✓
W.L.	5.4	344.6 ✓
0+50 W.L.	5.8	343.9 ✓
cb	5.4	344.3 ✓
1/2	5.3	344.4 ✓
±	4.9	344.8 ✓
1/2	4.8	344.9 ✓
cb.	3.8	345.9 ✓
E.L.	3.7	346.0 ✓
1+00 E.L.	3.6	346.1 ✓
cb	4.1	345.6 ✓
1/2	4.9	344.8 ✓
±	4.9	344.8 ✓
1/2	5.4	344.3 ✓
cb	5.5	344.2 ✓
#	342	348.18 ✓
W.L.	4.4	343.8 ✓
1+50 W.L.	4.2	344.0 ✓
cbi	4.0	344.2 ✓
1/2	3.8	344.4 ✓
±	3.5	344.7 ✓
1/2	3.7	344.5 ✓
cb	2.7	345.5 ✓
E.L.	2.2	346.0 ✓
E.L. 2+00	2.7	345.5 ✓
cb	3.1	345.1 ✓

348.18 ✓

1/2	4.1	342.1 ✓
E	4.0	340.2 ✓
1/2	4.4	343.8 ✓
cb.	4.5	343.7 ✓
W.L.	4.9	343.3 ✓
2.50 W.L.	5.5	342.7 ✓
cb	5.1	343.1 ✓
1/2	5.0	343.2 ✓
E	4.7	343.5 ✓
1/2	4.8	343.4 ✓
cb.	3.7	344.5 ✓
E.L.	3.6	344.6 ✓
3.00 E.L.	4.6	343.6 ✓
cb	4.6	343.6 ✓
1/2	5.5	342.7 ✓
E	5.6	342.6 ✓
1/2	5.8	342.4 ✓
cb.	6.0	342.2 ✓
W.L.	6.3	341.9 ✓
3.50 W.L.	6.6	341.6 ✓
cb	6.4	341.8 ✓
1/2	6.5	341.7 ✓
E	6.4	341.8 ✓
1/2	6.1	342.1 ✓
cb.	5.6	342.6 ✓
E.L.	5.2	343.0 ✓

348.18 ✓

Silver Gate Ave

53

4.00 E.L.	6.9	342.3 ✓
cb	6.4	341.8 ✓
1/2	6.7	341.5 ✓
E	7.2	341.0 ✓
1/2	7.3	340.9 ✓
cb	7.6	340.6 ✓
W.L.	8.0	340.2 ✓
4.50 W.L.	8.6	339.6 ✓
cb	8.1	340.1 ✓
1/2	8.1	340.1 ✓
E	7.8	340.4 ✓
1/2	7.3	340.9 ✓
cb	6.8	341.4 ✓
E.L.	6.8	341.4 ✓
5.00 E.L.	7.3	340.9 ✓
cb	7.6	340.6 ✓
1/2	8.1	340.1 ✓
E	8.5	339.7 ✓
1/2	8.8	339.4 ✓
cb	8.1	339.1 ✓
W.L.	9.5	338.7 ✓
5.50 W.L.	9.7	338.5 ✓
cb	9.5	338.7 ✓
1/2	9.4	338.8 ✓
E	9.0	339.2 ✓
1/2	8.5	339.7 ✓

349.18 ✓

cb.	8.4	339.8 ✓
E.L.	8.0	340.2 ✓
#	2.76	341.18 ✓
G+00 E.L.	1.6	339.6 ✓
cb	2.0	339.2 ✓
1/2	2.2	339.0 ✓
±	2.5	338.7 ✓
1/2	2.5	338.4 ✓
cb.	2.8	338.4 ✓
W.L.	2.9	338.3 ✓
G+28 ⁰ = S.L. of G ₀ St on East; W.L.	3.1	338.1 ✓
cb	3.1	338.1 ✓
1/2	3.1	338.1 ✓
±	2.8	338.4 ✓
1/2	2.5	338.7 ✓
cb	2.9	338.8 ✓
E.L.	2.1	339.1 ✓
Scb = G+39 ⁰ E.L.	2.1	339.1 ✓
cb	2.1	339.1 ✓
1/2	2.7	338.5 ✓
±	3.1	338.1 ✓
1/2	3.7	338.0 ✓
cb	3.1	338.1 ✓
W.L.	2.9	338.3 ✓
5/2 = G+08 ⁰ W.L.	3.0	337.7 ✓
cb.	3.3	337.9 ✓

341.18 ✓

Silver Gate Ave. 59

1/2	3.4	337.8 ✓
±	3.2	338.0 ✓
1/2	2.9	338.4 ✓
cb.	2.6	338.6 ✓
E.L.	2.3	338.9 ✓
± = G+58 ⁰ E.L. = 00	2.6	338.6 ✓
cb	2.8	338.4 ✓
1/2	2.9	338.3 ✓
±	3.3	337.9 ✓
#	± Moni	3.71
1/2	3.0	337.7 ✓
cb.	3.3	337.9 ✓
W.L.	3.0	337.7 ✓
N/2 = 0+10 W.L.	3.6	337.6 ✓
cb.	3.4	337.8 ✓
1/2	3.6	337.6 ✓
±	3.4	337.8 ✓
1/2	3.7	338.0 ✓
cb.	3.1	338.1 ✓
E.L.	3.0	338.1 ✓
NC6 = 0+20 E.L.	2.6	338.6 ✓
cb.	2.9	338.3 ✓
1/2	3.3	337.9 ✓
±	3.5	337.7 ✓
1/2	3.7	337.5 ✓
cb.	3.5	337.7 ✓
W.L.	3.8	337.4 ✓

341.18 ✓

N.L. = 0+30 W.L.	3.8	337.4 ✓
cb	3.5	337.7 ✓
1/2	3.8	337.4 ✓
E	3.7	337.5 ✓
1/2	3.4	337.8 ✓
cb.	3.1	338.1 ✓
E.L.	3.1	338.1 ✓
0+30 E.L.	3.6	337.6 ✓
cb	3.5	337.7 ✓
1/2	3.7	337.5 ✓
E	4.0	336.2 ✓
1/2	4.1	337.0 ✓
cb.	3.9	337.4 ✓
W.L.	3.8	337.4 ✓
1+00 W.L.	4.7	336.5 ✓
cb.	4.7	336.5 ✓
1/2	4.9	336.3 ✓
E	4.6	336.6 ✓
1/2	4.6	336.6 ✓
cb.	4.3	336.9 ✓
E.L.	4.6	336.6 ✓
1+50 E.L.	6.0	335.2 ✓
cb	5.7	335.5 ✓
1/2	5.8	335.4 ✓
E	5.8	335.4 ✓
1/2	5.9	335.3 ✓

341.18 ✓

Silver Gate Ave. 55

cb.	5.4	335.8 ✓
W.L.	5.1	336.7 ✓
2+00 W.L.	6.6	334.6 ✓
cb	6.6	334.6 ✓
1/2	6.9	334.3 ✓
E	7.0	334.2 ✓
1/2	7.0	334.2 ✓
cb.	7.0	334.2 ✓
E.L.	7.0	334.2 ✓
2+50 E.L.	8.4	332.8 ✓
cb	8.4	333.0 ✓
1/2	8.2	333.0 ✓
E	8.1	333.1 ✓
1/2	8.0	333.2 ✓
cb.	7.6	333.6 ✓
W.L.	7.5	333.7 ✓
3+00 W.L.	8.5	332.7 ✓
cb.	8.9	332.3 ✓
1/2	9.1	332.1 ✓
E	9.0	332.2 ✓
1/2	9.4	331.8 ✓
cb.	9.1	332.1 ✓
E.L.	9.4	331.8 ✓
3+22 E.L. = N.L. RL. 104 E.L.	10.0	331.4 ✓
100 = S.L. RL. 143	9.4	331.8 ✓
cb.	9.8	331.4 ✓
1/2		

+
341.18 ✓

±		9.5	331.7 ✓
#	On Concrete + Mort 831.90	10.04	331.14 ✓ D.M.
1/2		0.1	331.8 ✓
cb		+0.1	332.0 ✓
W.L.		+0.3	332.2 ✓
0+50 W.L.		0.5	331.4 ✓
cb		0.4	331.5 ✓
1/2		1.1	330.8 ✓
±		1.0	330.9 ✓
1/4		1.2	330.7 ✓
cb.		1.2	330.7 ✓
E.L.		1.6	330.3 ✓
1400 E.L.		2.3	329.6 ✓
cb.		2.2	329.7 ✓
1/4		2.2	329.7 ✓
±		1.9	330.0 ✓
1/2		1.9	330.0 ✓
cb.		1.0	330.9 ✓
W.L.		1.1	330.8 ✓
1+50 W.L.		2.1	329.8 ✓
cb		2.2	329.7 ✓
1/4		3.1	328.8 ✓
±		2.9	329.0 ✓
1/4		3.5	328.4 ✓
cb.		3.5	328.4 ✓
E.L.		3.4	328.5 ✓

+
331.00 ✓

Silver Gate Ave:

56

2+00 E.L.	4.9	327.0 ✓
cb	4.9	327.0 ✓
1/4	4.6	327.3 ✓
±	4.3	327.6 ✓
1/4	4.4	327.5 ✓
cb.	3.2	328.7 ✓
W.L.	3.2	328.7 ✓
2+50 W.L.	4.8	327.1 ✓
cb	4.8	327.1 ✓
1/4	6.0	325.9 ✓
±	6.1	325.8 ✓
1/4	6.5	325.4 ✓
cb.	6.9	325.0 ✓
E.L.	6.6	325.3 ✓
3+00 E.L.	8.7	323.2 ✓
cb	8.4	323.5 ✓
1/4	8.3	323.6 ✓
±	8.0	323.9 ✓
1/4	8.6	323.3 ✓
cb.	7.1	324.8 ✓
W.L.	7.1	324.8 ✓
3+50 = N.L. FL 142 W.L. 100 = S.L. FL 143	8.8	323.1 ✓
cb	8.9	323.0 ✓
1/4	10.5	321.4 ✓
±	10.0	321.9 ✓
1/4	10.4	321.5 ✓

331.90 ✓

cb		10.3	321.6 ✓
E.L.		10.5	321.4 ✓
#	0.62	10.18	321.72 ✓
0.50 E.L.		3.7	318.6 ✓
cd		3.6	318.7 ✓
1/8		3.8	318.5 ✓
+5		3.1	319.2 ✓
±		3.1	319.2 ✓
1/2		3.5	318.8 ✓
+5		3.4	318.9 ✓
cb		1.9	320.4 ✓
+7 Cypress hedge:		1.8	320.5 ✓
W.L.		1.8	320.5 ✓
100 W.L.		4.3	318.0 ✓
+2 = Cypress hedge:		3.4	318.9 ✓
cb		6.2	316.1 ✓
1/4		5.9	316.4 ✓
+5		6.0	316.3 ✓
±		6.6	315.7 ✓
1/2		6.3	316.0 ✓
cb		6.6	315.7 ✓
E.L.		6.8	315.5 ✓
1.50 E.L.		8.3	314.0 ✓
cb		9.1	313.2 ✓
1/8		9.3	313.0 ✓
±		8.6	313.7 ✓
1/4		8.5	313.8 ✓

322.34 ✓

Silver Gate Ave:

57

#	113	314.94 ✓	8.53	313.81 ✓
cb			0.0	314.9 ✓
W.L.			+0.4	315.3 ✓
1-7762 = S.L. Warner Villa	W.L.		1.1	313.8 ✓
cb			1.9	313.0 ✓
1/4			2.4	312.5 ✓
±			2.5	312.4 ✓
1/4			2.5	311.4 ✓
+3			2.2	310.7 ✓
+5			3.5	311.4 ✓
cb			3.4	311.5 ✓
E.L.			3.7	311.2 ✓
200 E.L.			5.1	309.8 ✓
cb			4.8	310.1 ✓
+7			5.3	309.6 ✓
1/2			4.7	310.2 ✓
±			3.8	311.1 ✓
1/8			3.8	311.1 ✓
±			3.8	311.1 ✓
cb			3.2	311.7 ✓
+8			2.7	312.2 ✓
W.L.			2.2	312.7 ✓
100 W.L.			4.9	310.0 ✓
+2			5.8	309.1 ✓
cb			6.7	308.2 ✓
+2			7.2	307.7 ✓

314.94

1/2	6.5	308.4 ✓
±	6.5	308.4 ✓
1/4	7.3	307.6 ✓
+5	8.2	306.7 ✓
Cb	7.7	307.2 ✓
E.L	8.3	306.6 ✓
2+70 ⁶² = S.L. Rio Pico St. 50 wide: 10 Cbs.		
E.L	9.5	305.4 ✓
Cb	8.9	306.0 ✓
+5	9.2	305.7 ✓
1/4	8.4	306.5 ✓
±	8.7	306.2 ✓
1/2	7.5	307.4 ✓
Cb	7.7	307.2 ✓
W.L	6.1	308.8 ✓
S cb. W.L	7.1	307.8 ✓
Cb	7.9	307.0 ✓
1/2	8.1	306.8 ✓
±	8.4	306.5 ✓
1/4	9.0	305.9 ✓
+5	10.0	304.9 ✓
cb	9.4	305.5 ✓
E.L	10.1	304.8 ✓
S 1/4 E.L	10.4	304.5 ✓
cb	9.6	305.3 ✓
+5	10.3	304.6 ✓

314.94

Silver Gate Ave:

58

1/4	9.4	305.5 ✓
±	8.9	306.0 ✓
1/4	8.5	306.4 ✓
cb	8.0	306.9 ✓
W.L	7.4	307.5 ✓
E.W.L	7.7	307.2 ✓
cb	8.5	306.4 ✓
1/2	9.0	305.9 ✓
±	9.4	305.7 ✓
1/2	9.8	305.1 ✓
+5	10.9	304.0 ✓
cb	10.0	304.9 ✓
E.L	10.8	304.1 ✓
N 1/4 E.L	11.2	303.7 ✓
cb	10.4	304.7 ✓
+5	11.3	303.6 ✓
1/4	10.3	304.6 ✓
±	9.7	305.2 ✓
1/4	9.5	305.4 ✓
cb	9.3	305.6 ✓
W.L	8.7	306.2 ✓
N Cb. W.L	9.1	305.8 ✓
cb	9.6	305.3 ✓
1/4	9.9	305.0 ✓
±	10.2	304.7 ✓
1/4	10.9	304.0 ✓

314.94

76		12.0	302.9 ✓	
Cb		10.9	304.0 ✓	
E.L.		11.4	303.0 ✓	
3120 ⁰⁰ = N.L. Pto. Pico St. E.L. = 00		12.9	302.0 ✓	
Cb		12.1	302.8 ✓	
1/2		11.5	303.4 ✓	
E		10.9	304.0 ✓	
1/2		10.4	304.5 ✓	
Cb		10.5	304.4 ✓	
+4		9.3	305.6 ✓	
W.L.		9.1	305.8 ✓	
0+50 W.L.		11.5	303.4 ✓	
+7		12.0	302.9 ✓	
Cb		13.0	301.9 ✓	
1/2		12.9	302.0 ✓	
E		12.1	301.8 ✓	
1/2		13.3	301.6 ✓	
Cb		13.6	301.3 ✓	
E.L.		14.8	300.1 ✓	
#	0.96	303.04 ✓	12.86	302.08 ✓
			11.06	303.88 ✓
0+50 E.L.			5.0	298.0 ✓
Cb			3.8	299.2 ✓
1/2			3.6	299.4 ✓
E			3.4	299.6 ✓
1/2			3.4	299.6 ✓

Pto. Pico
6E 3555

303.04

Silver Gate Ave.

57

Cb.	3.0	300.0 ✓
W.L.	1.7	301.3 ✓
450 W.L.	2.9	299.1 ✓
Cb	5.0	298.0 ✓
1/2	5.5	297.5 ✓
E	5.3	297.7 ✓
1/2	6.2	296.8 ✓
Cb	6.5	296.5 ✓
E.L.	7.2	295.8 ✓
2+00 E.L.	7.1	293.9 ✓
Cb	8.6	294.4 ✓
1/2	8.0	295.0 ✓
E	7.3	295.7 ✓
1/2	7.4	295.6 ✓
Cb	7.4	295.6 ✓
+1	6.5	296.5 ✓
W.L.	5.9	297.1 ✓
2+50 W.L.	7.6	295.4 ✓
+9	8.2	294.8 ✓
Cb	9.2	293.8 ✓
1/2	9.2	293.8 ✓
E	9.1	293.9 ✓
1/2	9.9	293.1 ✓
Cb	10.4	292.6 ✓
E.L.	11.0	292.0 ✓

303.04 ✓

3+00 = S.L. Fort St. 50' wide on West: 10' cbs:

E.L.	12.4	290.8 ✓
cb	11.7	291.3 ✓
1/4	11.0	292.0 ✓
±	10.7	292.3 ✓
1/4	10.6	292.4 ✓
±	10.8	292.2 ✓
cb	10.1	292.9 ✓
W.L.	9.3	292.7 ✓
#	0.80	294.44 ✓
	9.40	293.64 = 293.55 ✓

2. Nuis. San Diego Gas & Electric Pole SW. Cor of Fort & Silver Gate

S.L. on West + 6.77 = S.L. on East of 60' St: 10' cbs: 10' /4s:

W.L.	1.0	293.4 ✓
cb	2.3	292.1 ✓
1/4	2.2	292.4 ✓
±	2.2	292.2 ✓
1/4	2.5	291.9 ✓
cb	3.2	291.2 ✓
E.L.	3.6	290.8 ✓
^{E.L.} S. Corb of West St	3.6	290.8 ✓
cb	3.2	291.2 ✓
1/4	2.5	291.9 ✓
±	2.2	292.2 ✓
1/4	2.2	292.2 ✓
cb	2.3	292.1 ✓
W.L.	1.0	293.4 ✓

294.44 ✓

Silver Gate Ave.

60

South Corb on East St: W.L.

cb	1.3	293.1 ✓
1/4	2.5	291.9 ✓
±	2.5	291.9 ✓
1/4	2.6	291.8 ✓
cb	3.0	291.4 ✓
E.L.	3.0	290.9 ✓
E.L.	3.9	290.5 ✓
South 1/4 on West St: E.L.	3.9	290.5 ✓
cb	3.5	290.9 ✓
1/4	3.0	291.4 ✓
±	2.6	291.8 ✓
1/4	2.5	291.9 ✓
cb	2.5	291.9 ✓
W.L.	1.3	293.1 ✓
± on West St: W.L.	1.5	292.9 ✓
cb	2.8	291.6 ✓
1/4	2.8	291.6 ✓
±	2.9	291.5 ✓
1/4	3.0	291.4 ✓
cb	4.0	290.4 ✓
E.L.	4.0	290.4 ✓
5/4 of East St: E.L.	4.0	290.4 ✓
cb	4.0	290.4 ✓
1/4	3.0	291.4 ✓
±	2.9	291.5 ✓
1/4	2.8	291.6 ✓
cb	2.8	291.6 ✓

+
294.08 ✓

W.L	1.0	292.9 ✓
North 1/2 on West St W.L	2.0	292.4 ✓
cb	3.1	291.3 ✓
1/2	3.1	291.3 ✓
±	3.2	291.2 ✓
1/4	3.7	290.7 ✓
+8	4.5	289.9 ✓
cb	4.6	290.4 ✓
E.L	4.7	289.7 ✓
± on East St E.L	5.4	289.0 ✓
cb	6.7	289.7 ✓
1/2	3.8	290.6 ✓
±	3.3	291.1 ✓
1/2	3.2	291.2 ✓
cb.	3.1	291.3 ✓
W.L	2.1	292.3 ✓
North Curb on West St W.L	2.1	292.3 ✓
cb	3.1	291.3 ✓
1/2	3.2	291.2 ✓
±	3.3	291.1 ✓
1/2	3.8	290.6 ✓
cb.	4.7	289.7 ✓
E.L	5.4	289.0 ✓
N 1/4 on East St. E.L	4.9	289.5 ✓
cb	4.8	289.6 ✓
1/4	4.2	290.2 ✓

+
294.44 ✓
Silver Gate Ave. 61

±	3.6	290.8 ✓
1/4	3.6	290.8 ✓
+9	3.2	291.2 ✓
cb	2.6	291.8 ✓
W.L	2.1	292.3 ✓
N.L on West St W.L	2.1	292.3 ✓
cb	2.6	291.8 ✓
+1	3.2	291.2 ✓
1/4	3.6	290.8 ✓
±	3.6	290.8 ✓
1/4	4.2	290.2 ✓
cb	4.8	289.6 ✓
E.L	4.9	289.5 ✓
North Curb on East St E.L	5.2	289.1 ✓
cb	5.4	289.2 ✓
1/4	4.5	289.9 ✓
±	4.0	290.4 ✓
1/2	3.7	290.5 ✓
+9	3.6	290.8 ✓
cb	3.0	291.4 ✓
W.L	2.4	292.0 ✓
N.L Fort St on the East W.L = 00	2.7	291.7 ✓
cb	3.1	291.3 ✓
+1	3.8	290.6 ✓
1/4	4.1	290.3 ✓
±	4.3	290.1 ✓
1/4	4.9	289.5 ✓

+
294.44 ✓

Cb	5.1	289.3 ✓
E.L.	4.6	289.8 ✓
0+50 E.L.	5.0	289.4 ✓
cb	4.8	289.6 ✓
1/4	4.3	290.1 ✓
±	4.1	290.3 ✓
1/4	4.2	290.2 ✓
+9	4.1	290.3 ✓
Cb	3.4	291.2 ✓
W.L.	2.6	291.8 ✓
1+00 W.L.	3.1	291.3 ✓
+9	3.6	290.8 ✓
Cb	4.6	289.8 ✓
1/4	4.6	289.8 ✓
±	4.6	289.8 ✓
1/4	5.0	289.4 ✓
Cb	5.6	288.8 ✓
E.L.	6.1	289.3 ✓
1+50 E.L.	6.6	287.8 ✓
cb	6.0	288.4 ✓
1/4	5.2	289.2 ✓
±	4.6	289.8 ✓
1/4	4.8	289.6 ✓
+9	4.8	289.6 ✓
Cb	3.7	290.7 ✓
W.L.	2.9	291.5 ✓

+
294.44 ✓
Silver Gate Ave: 62

2+00 W.L.	2.8	291.6 ✓
cb	3.5	290.9 ✓
+1	4.7	289.7 ✓
1/4	4.6	289.8 ✓
±	4.7	289.7 ✓
1/4	5.2	289.2 ✓
cb	6.0	288.4 ✓
E.L.	6.3	288.1 ✓
2+50 E.L.	6.5	287.9 ✓
Cb	5.9	288.5 ✓
1/4	5.2	289.2 ✓
±	4.3	290.1 ✓
1/4	4.5	289.9 ✓
+9	4.4	290.0 ✓
Cb	3.4	291.0 ✓
W.L.	2.7	291.7 ✓
2+83 ²³ = S.L. Warner St 50' Wide 10' Cbs:		
W.L.	2.4	292.0 ✓
cb	3.5	290.9 ✓
+1	4.1	290.3 ✓
1/4	4.2	290.2 ✓
±	4.2	290.2 ✓
1/4	4.9	289.5 ✓
cb	5.7	288.7 ✓
E.L.	6.0	288.4 ✓

	+	π 294.44 ✓	-
Scb Warner E.L.			6.0 288.4 ✓
Cb			5.4 289.0 ✓
1/4			4.6 289.8 ✓
+v			4.1 290.3 ✓
E			4.0 290.4 ✓
1/4			4.1 290.3 ✓
cb.			3.8 290.6 ✓
W.L.			2.6 291.8 ✓
5/4 Warner W.L.			2.6 291.8 ✓
cb			3.5 290.9 ✓
1/2			4.0 290.4 ✓
E			4.0 290.4 ✓
1/2			4.6 289.8 ✓
cb			5.5 288.9 ✓
E.L.			6.0 288.4 ✓
E Warner St E.L.			6.0 288.4 ✓
cb			5.4 289.0 ✓
1/4			4.5 289.9 ✓
E			3.9 290.5 ✓
1/2			3.9 290.5 ✓
cb.			3.6 290.8 ✓
W.L.			2.6 291.8 ✓
N 1/4 Warner St. W.L.			2.5 291.9 ✓
cb			3.6 290.8 ✓
1/4			3.9 290.5 ✓
E			3.9 290.5 ✓

	+	π 294.44 ✓	-
1/4			4.4 290.0 ✓
#	4.16	297.57 ✓	1.03 293.41 ✓ <small>2 Silver Gate S.D. 62E No 648 3 1/2 mi's SW. Warner</small>
Cb			8.4 289.2 ✓
E.L.			9.3 288.3 ✓
North Cross of Warner St. E.L.			9.3 288.3 ✓
Cb			8.4 289.2 ✓
1/2			7.4 290.2 ✓
E			6.8 290.8 ✓
1/2			6.9 290.7 ✓
+9			6.8 290.8 ✓
Cb			6.1 291.5 ✓
W.L.			5.1 292.5 ✓
00 = N.L. Warner St. W.L.			5.1 292.5 ✓
Cb			5.7 291.9 ✓
+v			6.9 290.7 ✓
1/2			6.8 290.8 ✓
E			6.7 290.9 ✓
1/4			7.4 290.2 ✓
cb			8.6 289.0 ✓
E.L.			9.1 288.5 ✓
0150 E.L.			7.9 289.7 ✓
cb			7.2 290.4 ✓
1/4			6.4 291.2 ✓
E			6.0 291.6 ✓
1/4			6.1 291.5 ✓
+8			6.1 291.5 ✓

Silver Gate Ave: 63

π
297.57 ✓

Silver Gate Ave.

Cb	9.8	292.8 ✓
W.L.	4.1	293.5 ✓
100 W.L.	3.1	294.5 ✓
Cb	4.0	293.6 ✓
7/8	5.4	292.2 ✓
1/2	5.2	292.4 ✓
±	5.4	292.4 ✓
1/8	5.3	292.3 ✓
Cb	6.2	291.4 ✓
E.L.	7.1	290.5 ✓
1+50 E.L.	6.2	291.4 ✓
Cb	5.5	292.1 ✓
1/8	4.5	293.1 ✓
±	4.2	293.4 ✓
1/8	4.1	293.5 ✓
+8	4.4	293.2 ✓
Cb	2.9	294.7 ✓
W.L.	2.2	295.4 ✓
200 W.L.	1.1	296.5 ✓
Cb	2.0	295.6 ✓
±	3.6	294.0 ✓
1/8	3.4	294.2 ✓
±	3.4	294.2 ✓
1/8	3.7	293.7 ✓
Cb	4.4	293.2 ✓
E.L.	4.7	292.9 ✓

π
297.57 ✓

Brass plug curb S.L. Magnolia
Park Add. E.L. Silver Gate

64

#	8.43	302.03	3.97	293.60 ✓
E.L.	5+15.25 = S.L. Magnolia Park Addition;		8.9	293.1 ✓
Concrete Cb.			8.46	293.57 ✓
1/4			7.8	294.2 ✓
±			7.6	294.4 ✓
1/4			7.6	294.4 ✓
+7			7.8	294.2 ✓
Cb			6.2	295.8 ✓
W.L.			5.5	296.5 ✓
2+50 W.L.			4.5	297.5 ✓
Cb			5.4	296.6 ✓
+3			7.2	294.8 ✓
1/8			6.9	295.1 ✓
±			6.8	295.2 ✓
1/8			7.2	294.8 ✓
Concrete Cb.			7.98	294.08 ✓
E.L.			8.0	294.0 ✓
3+00 = S.L. Dredg. St. 50' wide; E.L.			7.2	294.8 ✓
Concrete Curb			7.22	294.81 ✓
1/8			6.0	296.0 ✓
±			5.8	296.2 ✓
1/8			5.9	296.1 ✓
+7			6.1	295.9 ✓
Cb			4.5	297.5 ✓
W.L.			3.5	298.5 ✓

302.03

S. Cd Dudley St W.L.	3.4	298.8 ✓
Cb	4.1	297.9 ✓
+3	5.6	296.4 ✓
1/2	5.7	296.3 ✓
±	5.7	296.3 ✓
1/2	5.9	296.1 ✓
Concrete Curb.	7.0	295.0 ✓
E.L.	7.04	294.99 ✓
S 1/4 Dudley St E.L.	7.0	295.0 ✓
Concrete Curb;	6.95	295.08 ✓
+1	7.3	294.7 ✓
1/2	5.7	296.3 ✓
±	5.5	296.5 ✓
1/2	5.6	296.4 ✓
cb	4.4	297.6 ✓
W.L.	3.6	298.4 ✓
± Dudley St. W.L.	3.6	298.4 ✓
cb	5.0	297.0 ✓
1/2	5.5	296.5 ✓
±	5.4	296.6 ✓
1/2	5.7	296.3 ✓
+8	7.2	294.8 ✓
Concrete Curb;	6.91	295.12 ✓
E.L.	6.9	295.1 ✓
N 1/2 Dudley St E.L.	6.8	295.2 ✓
Concrete Curb;	6.86	295.17 ✓

302.03

Silver Gate Ave.

65

+2	7.3	294.7 ✓
1/2	5.7	296.3 ✓
±	5.3	296.7 ✓
1/2	5.4	296.6 ✓
cb.	4.7	297.3 ✓
W.L.	2.7	299.3 ✓
North Curb of Dudley St W.L.	2.8	299.2 ✓
cb	3.5	298.5 ✓
+2	5.0	297.0 ✓
1/2	5.3	296.7 ✓
±	5.3	296.7 ✓
1/2	5.6	296.4 ✓
+9	7.1	294.9 ✓
Concrete Curb	6.78	295.25 ✓
E.L.	6.8	295.2 ✓
N. 1/2 Dudley St. E.L. = 00	6.5	295.5 ✓
Concrete Curb;	6.64	295.39 ✓
+1	6.9	295.1 ✓
1/2	5.2	296.8 ✓
±	5.1	296.9 ✓
1/2	5.2	296.8 ✓
+7	5.1	296.9 ✓
cb.	3.4	298.8 ✓
W.L.	2.6	299.4 ✓
+50 W.L.	2.3	299.7 ✓
Cb	3.0	299.0 ✓

at bottom of concrete wall

302.03

+2	4.7	297.3 ✓
1/4	4.7	297.3 ✓
±	4.6	297.4 ✓
1/4	5.0	297.0 ✓
+9	6.5	295.5 ✓
Concrete Cb	5.85	296.18 ✓
E.L.	5.8	296.2 ✓
(60' Wide)		
0+65 ³⁵ = S.L. Dudley St. E.L.	5.8	296.2 ✓
Concrete Cb	5.58	296.45 ✓
+1	6.2	295.8 ✓
1/4	4.8	297.2 ✓
±	4.6	297.4 ✓
1/4	4.7	297.3 ✓
+9	4.7	297.3 ✓
Cb	2.9	299.1 ✓
N.L. at bottom of Concrete wall:	2.3	299.7 ✓
#	1.91	299.94 ✓
	4.00	298.03 ✓
Concrete Step		
Curbs on this st nearest even foot is 14' (Appe 11' 0" from N.L. on Silver Gate)		
(Concrete curbs in all this Sub)		
Curb on East: N.L. foot Concrete wall:	0.3	299.6 ✓
+9	0.5	299.4 ✓
Cb	1.0	298.4 ✓
+1	2.6	297.3 ✓
1/4	2.6	297.3 ✓
±	2.6	297.3 ✓
1/4	2.8	297.1 ✓
Cb	3.9	296.0 ✓

299.94

Silver Gate Ave.

66

E.L. on Concrete Curb: (Return)	3.51	296.43 ✓
S. Gutter on East E.L.	4.4	295.5 ✓
Cb	3.7	296.2 ✓
S. 1/4 E.L.	4.3	295.6 ✓
cb	3.4	296.5 ✓
1/4	2.7	297.2 ✓
±	2.6	297.3 ✓
1/4	2.7	297.2 ✓
+9	2.4	297.5 ✓
Cb	1.5	298.4 ✓
+1	0.8	299.1 ✓
at base concrete wall: N.L.	0.1	299.8 ✓
± " " " "	0.1	299.8 ✓
1/4	0.8	299.1 ✓
Cb	1.9	298.0 ✓
+1	2.8	297.1 ✓
1/4	2.7	297.2 ✓
±	2.7	297.2 ✓
1/4	2.8	297.1 ✓
cb	3.2	296.7 ✓
E.L.	4.0	295.9 ✓
N. 1/4 E.L.	4.3	295.6 ✓
cb	3.5	296.4 ✓
1/4	2.8	297.1 ✓
±	2.7	297.2 ✓
1/4	2.7	297.2 ✓

	+	-	
	299.94 ✓		
+9		2.0	297.4 ✓
C6		1.8	298.1 ✓
+9		0.9	299.0 ✓
W.L. at foot Concrete Wall:		0.3	299.6 ✓
N.C.B. " " " " W.L.		0.3	299.6 ✓
+9		1.1	298.8 ✓
C6		1.7	298.2 ✓
+1		2.7	297.2 ✓
1/4		2.8	297.1 ✓
±		2.8	297.1 ✓
1/4		2.7	297.0 ✓
cb.		3.9	296.0 ✓
E.L.		4.5	295.4 ✓
1+20 ³⁰			
N.L. Dubley St on the East E.L.		4.0	295.9 ✓
E.C6 Concrete:		3.80	296.14 ✓
1/4		3.1	296.8 ✓
±		2.9	297.0 ✓
1/4		2.7	297.2 ✓
+9		2.6	297.3 ✓
C6:		1.9	298.0 ✓
+1		1.4	298.5 ✓
W.L. at foot concrete wall.		0.5	299.4 ✓
1+50 W.L. in Alley Roadway:		1.2	298.7 ✓
C6:		1.9	298.0 ✓
1/6		1.9	298.0 ✓
±		3.1	296.8 ✓

	+	-	
	299.94 ✓		
1/2		3.4	296.5 ✓
Concrete C6		4.30	295.64 ✓
E.L.		4.1	295.8 ✓
1+70 E.L.		4.7	295.2 ✓
Concrete C6:		4.72	295.21 ✓
+1		5.3	294.6 ✓
1/4		3.8	296.1 ✓
±		3.7	296.2 ✓
1/4		3.5	296.4 ✓
C6		3.5	296.4 ✓
+3		1.7	298.2 ✓
W.L. Fence & Rose hedge:		1.1	298.9 ✓
2+00 " " " " W.L.		1.5	298.4 ✓
+7		1.9	298.0 ✓
C6		3.9	296.0 ✓
1/4		3.9	296.0 ✓
±		4.0	295.9 ✓
1/4		4.3	295.6 ✓
+8		5.6	294.3 ✓
+9 = Concrete C6:		5.16	294.78 ✓
E.L.		5.1	294.8 ✓
2+00 E.L.		6.0	293.9 ✓
Concrete C6:		6.10	293.84 ✓
+1		6.05	293.4 ✓
1/4		5.28	294.7 ✓
±		4.9	295.0 ✓

299.94 ✓

1/4	5.0	294.9 ✓
Cb	5.0	294.9 ✓
+3	2.7	297.2 ✓
W.L. fence & Rose hedge	2.4	297.5 ✓
+2.25 W.L.	2.8	297.1 ✓
+5	5.7	294.2 ✓
Cb	5.8	294.1 ✓
+4.90 W.L.	5.3	294.6 ✓
Cb	5.6	294.3 ✓
300 = S.L. Charles St on West. 50' wide 10' Cb's		
W.L.	5.2	294.7 ✓
cb	6.1	293.8 ✓
1/2	6.1	293.8 ✓
±	6.3	293.6 ✓
1/2	6.7	293.2 ✓
+8 = Gutter	7.0	292.4 ✓
+9 = Corner curb	6.97	292.97 ✓
E.L.	7.2	292.7 ✓
S. Cb Charles C.L.	7.5	292.4 ✓
+11 = Concrete Cb.	7.14	292.80 ✓
Cb + 1 = Gutter.	7.6	292.3 ✓
1/4	7.0	292.9 ✓
±	6.6	293.3 ✓
1/2	6.4	293.5 ✓
cb.	6.3	293.6 ✓
W.L.	5.2	294.7 ✓

299.94 ✓

Silver Gate Ave: 68

S 1/4 Charles St. W.L.	5.4	292.5 ✓
cb	6.2	292.7 ✓
1/2	6.5	293.4 ✓
±	6.8	293.1 ✓
1/2	7.1	292.8 ✓
+8 = Gutter	7.8	292.1 ✓
+9 = Concrete Cb	7.26	292.68 ✓
E.L.	7.5	292.4 ✓
± Charles St E.L.	8.4	291.5 ✓
on Concrete Curb. Curb ends here.	7.21	292.73 ✓
Gutter.	7.8	292.1 ✓
1/2	7.5	292.4 ✓
±	7.0	292.9 ✓
1/4	6.7	293.2 ✓
cb	6.6	293.3 ✓
W.L.	5.6	294.3 ✓
N 1/4 Charles W.L.	5.6	294.3 ✓
cb	6.8	293.1 ✓
1/2	7.0	292.9 ✓
±	7.3	292.6 ✓
1/2	7.7	292.3 ✓
cb	8.5	291.4 ✓
E.L.	8.9	291.0 ✓

299.34 ✓

North Curb of Charles E.L.

cb	8.9	291.0 ✓
1/2	8.0	291.4 ✓
±	7.9	292.0 ✓
1/2	7.6	292.3 ✓
cb	7.2	292.7 ✓
W.L.	7.2	292.7 ✓
W.L.	6.1	293.8 ✓
oo - N.L. Charles St W.L. (taken 60)	6.8	293.1 ✓
cb	7.9	292.2 ✓
1/2	7.7	292.2 ✓
±	8.0	291.9 ✓
1/2	8.4	291.5 ✓
cb	8.9	291.0 ✓
E.L.	9.2	290.7 ✓
#	7.24	292.70 ✓ E.M.

B. Plug ± Charles in East Co. of Silver Gate Ave

#	3.08	294.27 ✓	8.75	291.19 ✓
(oo taken for 50 from here North 10 cbs)				
N.L. = oo	E.L.	3.0	291.3 ✓	
cb		2.7	291.6 ✓	
1/2		2.5	291.8 ✓	
±		2.3	292.0 ✓	
1/2		2.0	292.3 ✓	
cb		2.0	292.3 ✓	
W.L.		1.1	293.2 ✓	

299.27 ✓

Silver Gate Ave.

69

+25 W.L.	1.0	292.3 ✓
+7	1.0	292.8 ✓
Cb.	3.1	291.2 ✓
1/2	3.0	291.3 ✓
±	3.0	291.3 ✓
1/2	3.3	291.0 ✓
cb	3.6	290.7 ✓
E.L.	4.0	290.3 ✓
50 E.L.	4.3	290.0 ✓
cb	4.4	289.9 ✓
1/2	3.9	290.4 ✓
±	3.9	290.4 ✓
1/2	3.7	290.6 ✓
Cb	3.9	290.4 ✓
+2	2.3	292.0 ✓
W.L.	2.0	292.3 ✓
1400 W.L.	3.7	290.6 ✓
+5	3.9	290.4 ✓
Cb	5.3	289.0 ✓
1/2	5.2	289.1 ✓
±	5.4	288.9 ✓
1/2	5.4	288.9 ✓
cb	5.8	288.5 ✓
E.L.	6.3	288.0 ✓

+

29427 ✓

1+50 E.L.	7.4	286.9 ✓
cb	7.0	287.3 ✓
1/4	6.8	287.5 ✓
±	6.7	287.6 ✓
1/2	6.6	287.7 ✓
Cb	6.5	287.8 ✓
±	5.7	288.6 ✓
W.L.	5.1	289.2 ✓
2+00 W.L.	6.5	287.8 ✓
+9	6.8	287.5 ✓
Cb	7.7	286.6 ✓
±	8.5	285.8 ✓
1/4	8.0	286.3 ✓
±	8.0	286.3 ✓
1/2	8.0	286.3 ✓
Cb	8.3	286.0 ✓
E.L.	8.6	285.7 ✓
2+00 E.L.	9.9	284.9 ✓
Cb	9.6	284.7 ✓
1/2	9.5	284.8 ✓
±	9.4	284.9 ✓
1/2	9.5	284.8 ✓
+4 1/2	9.8	284.5 ✓
cb	8.6	285.7 ✓
+1	8.0	286.3 ✓
W.L.	7.8	286.5 ✓

29427 ✓

Silver Gate Ave. 70

2+80 = S.W. Wilcox St 50' Wide 10 Cbs, W.L.	8.6	285.7 ✓
+9	9.1	285.2 ✓
Cb	9.9	284.4 ✓
±	10.6	283.7 ✓
1/4	10.4	283.9 ✓
±	10.3	284.0 ✓
1/2	10.3	284.0 ✓
Cb	10.4	283.9 ✓
E.L.	10.7	283.6 ✓
Sub Wilcox E.L.	11.0	283.3 ✓
Cb	10.6	283.7 ✓
1/4	10.5	283.8 ✓
±	10.5	283.8 ✓
1/2	10.6	283.7 ✓
+4 1/2	10.8	283.5 ✓
Cb	10.5	284.1 ✓
W.L.	9.7	284.6 ✓
South 1/4 Wilcox St W.L.	10.0	284.3 ✓
cb	10.3	284.0 ✓
±	11.0	283.3 ✓
1/2	10.8	283.5 ✓
±	10.8	283.5 ✓
1/2	10.7	283.6 ✓
cb	10.8	283.5 ✓
E.L.	11.4	282.9 ✓

π
29427 ✓

± Wilcox St E.L.	11.6	282.7 ✓
Cb	11.1	283.2 ✓
1/4	10.9	283.4 ✓
±	10.9	283.4 ✓
1/4	11.0	283.3 ✓
+4 1/2	11.7	283.1 ✓
Cb	10.7	283.6 ✓
W.L.	10.0	284.3 ✓
N 1/4 Wilcox St W.L.	10.4	283.9 ✓
cb	11.1	283.2 ✓
+3	11.5	282.8 ✓
1/4	11.2	283.1 ✓
±	11.2	283.1 ✓
1/4	11.1	283.2 ✓
cb	11.2	283.1 ✓
E.L.	11.5	282.8 ✓
N Cb Wilcox St E.L.	11.6	282.7 ✓
cb	11.4	282.9 ✓
1/2	11.3	283.0 ✓
±	11.4	282.9 ✓
1/2	11.5	282.8 ✓
+4 1/2	11.7	282.6 ✓
cb	10.9	283.4 ✓
W.L.	10.2	284.1 ✓

π
29927 ✓

Silver Gate Ave: 71

00 = N.L. Wilcox St W.L.	10.1	284.2 ✓	
cb	10.6	283.7 ✓	
+3	11.7	282.6 ✓	
1/4	11.6	282.7 ✓	
±	11.6	282.7 ✓	
1/4	11.6	282.7 ✓	
cb.	11.7	282.6 ✓	
E.L.	12.0	282.3 ✓	
0+50 E.L.	13.4	280.9 ✓	
cb	12.8	281.5 ✓	
1/2	12.8	281.5 ✓	
±	12.8	281.5 ✓	
1/2	12.9	281.4 ✓	
+4 1/2	13.0	281.3 ✓	
Cb	12.0	282.3 ✓	
W.L.	11.6	282.7 ✓	
# 1.57	283.21 ✓	12.62	281.64 ✓
100 W.L.	1.4	281.8 ✓	
cb	1.8	281.4 ✓	
+3	2.8	280.4 ✓	
1/4	2.9	280.3 ✓	
±	2.7	280.5 ✓	
1/4	2.8	280.4 ✓	
cb	3.0	280.2 ✓	
E.L.	2.7	279.5 ✓	

+ 28321 ✓

1750 E.L.	4.6	278.6 ✓
cb	4.3	278.9 ✓
1/2	3.9	279.3 ✓
±	3.8	279.4 ✓
1/2	3.9	279.3 ✓
+ 4 1/2	3.9	279.3 ✓
cb	2.8	280.4 ✓
W.L.	2.5	280.7 ✓
2400 W.L.	3.9	279.3 ✓
cb	4.0	278.7 ✓
+5	5.3	277.9 ✓
1/2	4.9	278.3 ✓
±	4.9	278.4 ✓
1/2	5.0	278.2 ✓
cb	5.5	277.7 ✓
E.L.	5.7	277.5 ✓
2450 E.L.	6.7	276.5 ✓
cb	6.1	277.1 ✓
+5 on water main:	6.03	277.18 ✓
1/2	6.1	277.1 ✓
±	6.1	277.1 ✓
1/2	5.5	277.7 ✓
cb	5.5	277.7 ✓
W.L.	6.4	276.8 ✓
2480 S.L. Jennings St w/ wade: W.L.	9.4 ✓	274.0 ✓
cb	7.2	276.0 ✓

+ 28321 ✓

Silver Gate Ave: 72

1/2	7.3	275.9 ✓
±	7.0	276.2 ✓
1/2	6.8	276.4 ✓
cb	6.8	276.4 ✓
E.L.	7.8	275.4 ✓
10 North of S.L. of Jennings St. E.L.	7.6	275.6 ✓
cb	7.4	275.8 ✓
1/2	7.6	275.6 ✓
±	7.8	275.4 ✓
1/2	8.5	274.7 ✓
cb	9.0	274.2 ✓
W.L.	10.1	273.1 ✓
17.5 North of South Line of Jennings St.		
W.L.	10.3	272.9 ✓
cb	9.8	274.0 ✓
1/2	8.4	274.8 ✓
±	7.7	275.3 ✓
1/2	7.5	275.7 ✓
cb	7.4	275.8 ✓
E.L.	7.6	275.6 ✓
25 North of South Line of Jennings St.		
E.L.	7.1	276.1 ✓
cb	6.9	276.3 ✓
1/2	7.0	276.2 ✓
±	7.4	275.8 ✓
1/2	8.2	275.0 ✓

+

π
283.24

Silver Gate Ave:

Cb	9.0	274.2 ✓
W.L	10.6	272.6 ✓
#	6.55	276.66 ✓ B.M

3 marks in pole 36 01 G & E Co S.W. Cor. Jennings & Silver Gate:

+

π

Jennings St

25' wide:

23

166

278.32

276.66 See preceding page:

Sectioned with 10' curb on the South & the remaining 15' divided into 2 equal parts:

20 = E. L. of Silver Gate Ave:

S.L.	3.1	275.2 ✓
Cb	2.8	275.5 ✓
Cb 7 1/2 N	2.7	275.6 ✓
Cb 15 N	2.1	276.2 ✓
o+25		
Cb+15	3.7	274.6 ✓
Cb+7 1/2	4.4	273.9 ✓
Cb	3.7	274.6 ✓
S.L.	3.4	274.9 ✓
o+50		
S.L.	5.6	272.7 ✓
Cb	5.4	272.9 ✓
Cb+7 1/2 N	5.4	272.9 ✓
Cb+15 N	5.6	272.7 ✓
1+00		
Cb+15	9.0	268.9 ✓
Cb+7 1/2	9.3	269.0 ✓
Cb	9.0	269.3 ✓
S.L.	8.6	269.7 ✓
1+50		
S.L.	11.6	266.7 ✓
Cb	11.8	266.5 ✓

71
278.32

C6+7 1/4 12.3 266.0 ✓

C6+15 12.2 266.1 ✓

1-097 = W. L. Dover St as Xsectioned for 60 St
Note: actually Dover St is only 30' wide, then the + would be 1+992

C6+10 13.0 265.3 ✓

C6+7 1/2 12.7 265.6 ✓

C6 12.9 265.4 ✓

S.L. 12.4 265.9 ✓

12.62 265.71 T.P.

Note: Dover St Xsections from Jennings East Book 840 Page 47

74

Cross Section 68th St.
 Atkins Ave to Brooklyn Ave

March 24, 44
 S. 5307
 8144
 8099

60' wide of Stations. See 1557-43

+79 21.4 Lt = 1/2 Acacia Tree
 +55 21.5 Lt = 1/2 1" Acacia Tree
 +50
 +30 21.6 Lt = 1/2 5" Acacia Tree ✓
 +25 21.8 Lt = 1/2 Tel Pole ✓
 +06 22 Lt of 1/2 = 1/2 4" Acacia Tree ✓
 +03

0+0 At Right Angle 22 Lt of 1/2 = 1/2 Tel Pole

0+0 = N.L. Atkins Taken on Diag.

0-25 = 1/2 Atkins Ave Taken on Diag.

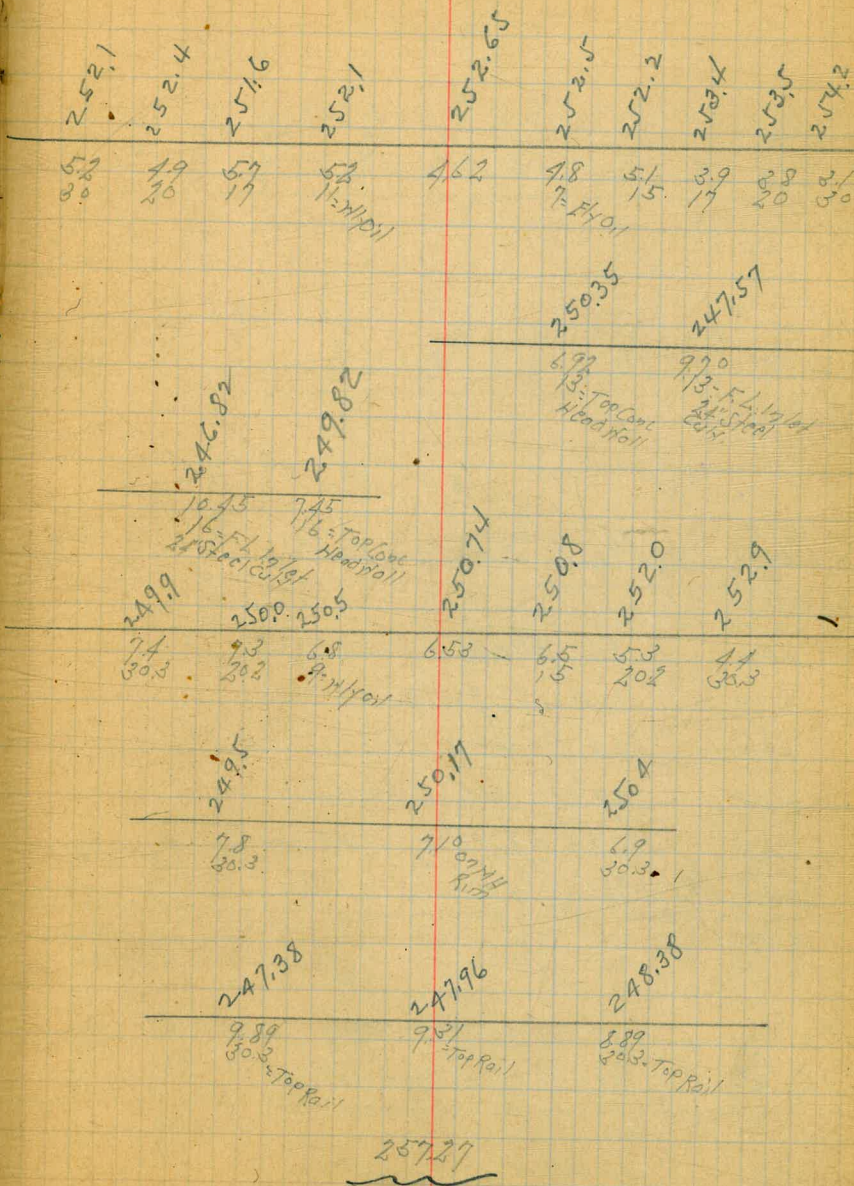
0-100.7 = 1/2 S.D. & H.R.R. Taken on Diag.

BM 7.96 257.27 249.31
 SYTOP F.H.R.
 Imperial
 168125

Lt. = W

Rt. = E

75



Cont. Page 78

+39	20 Lt	2 6" Acacia Tree		
+28	22 Lt	Wly Power Pole		
3+0				
TP	10.37	277.10	0.54	266.73
+25	21.3 Lt	2 8" Acacia Tree		
2+50				
+04	21.5 Lt	2 6" Acacia Tree		
2+0				
+95	21.0 Rt	2 9" Acacia Tree		
+79	21.5 Lt	2 5" Acacia Tree		
+74	20.5 Rt	2 5" Acacia Tree		
+64	22.0 Lt	Wly Power Pole		
+54	21.5 Lt	2 6" Acacia Tree		
+53	20.9 Rt	2 6" Acacia		
1+50				
TP	11.29	267.37	1.29	255.98
1+05	21.6 Lt	2 4" Acacia Tree		
1+0				
0+83	20.8 Rt	2 6" Acacia Tree		
		257.27		

Lt	Rt			
269.3	268.6	268.1	267.6	267.7
267.86	267.6	267.0	267.9	268.4
269.7	265.9	265.9	264.2	264.4
266.7	264.2	264.2	263.7	264.3
261.9	261.4	260.3	261.0	261.3
261.9	261.4	260.3	261.0	261.3
256.6	257.7	256.9	257.6	258.03
257.9	257.4	258.5	258.6	258.7
254.5	254.5	253.5	254.8	255.21
255.1	254.3	256.3	256.3	256.8

.00461
 21
 7321
 940
 11851

461
 149
 1081
 930
 461
 54281

20340
 149
 4780
 680
 240
 40480

A = 22.59
 R =
 ST = 25.00
 Ex = 2.7

17^m

100569
 25
 522845
 209138
 2614221

0.14945
 27.27
 104615
 29890
 104615
 29890
 40745015



N 89° 54' E 552.0
 10079 E



N 16° 14' W

N 0° 06' W

25.1

16.0
 19.54
 106.06

77

68165A

BM

5.22

277.52

2 No. 7
Brooklyn
+ 18750
277.52

4+99.0 = 5 L. Brooklyn

+ 69.0 = 5 L. Brooklyn

7.65 21.5 RT. 2 Fir Hyd.

47.50

TP

8.18 284.71 0.54 276.56

+ 48 28 Lt. W. Paper Pole

+ 24 21.5 Lt 8" Acacia Tree

+ 05 21.8 Lt 3" " "

4.10

191

3450

277.10 8 Lt Ford P 76

Lt.

S

RT

78

280.2	279.7	279.4	279.7	279.89	279.6	279.1	279.3	279.59
65 30	65 19-21/101	65 13.5	65 7	65	67 10	66 18	66 24	65 30
279.2	279.1	278.2	277.7	278.0	278.24	277.9	277.3	278.0
65 30	66 20	65 15	70 14-11/101	67 8	67	68 10	74 16-11/101	67 20
278.3	278.0	277.2	276.6	277.0	277.24	277.0	276.4	277.2
64 30	67 20	75 17	81 16-11/101	77 8	75	77 10	83 17-11/101	75 18
274.9	274.5	274.3	273.8	274.0	274.30	274.0	273.2	273.9
64 30	66 30	65 15	64 14-11/101	61 8	60	61 10	69 17-11/101	62 18
274.78	274.20	274.78	274.20	274.20	274.20	274.20	274.20	274.20
271.8	271.8	271.1	270.6	270.8	271.00	270.8	270.3	271.0
63 30	66 30	66 16	65 14-11/101	65 7	61	63 10	69 17-11/101	61 30
271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6
65 30	65 30	65 30	65 30	65 30	65 30	65 30	65 30	65 30

277.10

3.94
1.97

Def. 1°24
R = 82.5
L = 3.93 Int. East Line
18.55

02387 1022
82.5 / 197000
1650
3000
2095
72.50
60.00
57.71

angle of int 25 road

104°36
75°23

1.03337
48
876696
413348
4960176

1.03337
15
516695
516681
5623535

1.03337
85
176685
2.46696
8.643845

10.333
1.03337
4.13348

10.3337
4.1334
14.4671
10.3337
20.8000
10.3337
35.1345
4.1334
39.2649

TABLE IV.—TANGENTS AND EXTERNALS TO A 1° CURVE.

Central Angle	Tangent	External	Central Angle	Tangent	External	Central Angle	Tangent	External
1°	50.00	.22	11°	551.70	26.50	21°	1061.9	97.57
10'	58.34	.30	10'	560.11	27.31	10'	1070.6	99.16
20	66.67	.39	20	568.53	28.14	20	1079.2	100.75
30	75.01	.49	30	576.95	28.97	30	1087.8	102.35
40	83.34	.61	40	585.36	29.82	40	1096.4	103.97
50	91.68	.73	50	593.79	30.68	50	1105.1	105.60
2	100.01	.87	12	602.21	31.56	22	1113.7	107.24
10	108.35	1.02	10	610.64	32.45	10	1122.4	108.90
20	116.68	1.19	20	619.07	33.35	20	1131.0	110.57
30	125.02	1.36	30	627.50	34.26	30	1139.7	112.25
40	133.36	1.55	40	635.93	35.18	40	1148.4	113.95
50	141.70	1.75	50	644.37	36.12	50	1157.0	115.66
3	150.04	1.96	13	652.81	37.07	23	1165.7	117.38
10	158.38	2.19	10	661.25	38.03	10	1174.4	119.12
20	166.72	2.43	20	669.70	39.01	20	1183.1	120.87
30	175.06	2.67	30	678.15	39.99	30	1191.8	122.63
40	183.40	2.93	40	686.60	40.99	40	1200.5	124.41
50	191.74	3.21	50	695.06	42.00	50	1209.2	126.20
4	200.08	3.49	14	703.51	43.03	24	1217.9	128.00
10	208.43	3.79	10	711.97	44.07	10	1226.6	129.82
20	216.77	4.10	20	720.44	45.12	20	1235.3	131.65
30	225.12	4.42	30	728.90	46.18	30	1244.0	133.50
40	233.47	4.76	40	737.37	47.25	40	1252.8	135.35
50	241.81	5.10	50	745.85	48.34	50	1261.5	137.23
5	250.16	5.46	15	754.32	49.44	25	1270.2	139.11
10	258.51	5.83	10	762.80	50.55	10	1279.0	141.01
20	266.86	6.21	20	771.29	51.68	20	1287.7	142.93
30	275.21	6.61	30	779.77	52.89	30	1296.5	144.85
40	283.57	7.01	40	788.26	53.97	40	1305.3	146.79
50	291.92	7.43	50	796.75	55.13	50	1314.0	148.75
6	300.28	7.86	16	805.25	56.31	26	1322.8	150.71
10	308.64	8.31	10	813.75	57.50	10	1331.6	152.69
20	316.99	8.76	20	822.25	58.70	20	1340.4	154.69
30	325.35	9.23	30	830.76	59.91	30	1349.2	156.70
40	333.71	9.71	40	839.27	61.14	40	1358.0	158.72
50	342.08	10.20	50	847.78	62.38	50	1366.8	160.76
7	350.44	10.71	17	856.30	63.63	27	1375.6	162.81
10	358.81	11.22	10	864.82	64.90	10	1384.4	164.86
20	367.17	11.75	20	873.35	66.18	20	1393.2	166.95
30	375.54	12.29	30	881.88	67.47	30	1402.0	169.04
40	383.91	12.85	40	890.41	68.77	40	1410.9	171.15
50	392.28	13.41	50	898.95	70.09	50	1419.7	173.27
8	400.66	13.99	18	907.49	71.42	28	1428.6	175.41
10	409.03	14.58	10	916.03	72.76	10	1437.4	177.55
20	417.41	15.18	20	924.58	74.12	20	1446.3	179.72
30	425.79	15.80	30	933.13	75.49	30	1455.1	181.89
40	434.17	16.43	40	941.69	76.86	40	1464.0	184.08
50	442.55	17.07	50	950.25	78.26	50	1472.9	186.29
9	450.93	17.72	19	958.81	79.67	29	1481.8	188.51
10	459.32	18.38	10	967.38	81.09	10	1490.7	190.74
20	467.71	19.06	20	975.96	82.53	20	1499.6	192.99
30	476.10	19.75	30	984.53	83.97	30	1508.5	195.25
40	484.49	20.45	40	993.12	85.43	40	1517.4	197.53
50	492.88	21.16	50	1001.7	86.90	50	1526.3	199.82
10	501.28	21.89	20	1010.3	88.39	30	1535.3	202.12
10	509.68	22.62	10	1018.9	89.89	10	1544.2	204.44
20	518.08	23.38	20	1027.5	91.40	20	1553.1	206.77
30	526.48	24.14	30	1036.1	92.92	30	1562.1	209.12
40	534.89	24.91	40	1044.7	94.46	40	1571.0	211.48
50	543.29	25.70	50	1053.3	96.01	50	1580.0	213.86

TABLE VIII.—NATURAL TRIGONOMETRICAL FUNCTIONS.

Angle	Sine.	Tan.	Cotg.	Cosin.	Angle	Sine.	Tan.	Cotg.	Cosin.		
32	.5299	.6249	1.600	.84805	58	.8225	.7954	1.257	.78261		
10	.5324	.6289	1.590	.84650	50	.6248	.8002	1.250	.78079		
20	.5348	.6330	1.580	.84495	40	.6271	.8050	1.242	.77897		
30	.5373	.6371	1.570	.84339	30						
40	.5398	.6412	1.560	.84182	20						
50	.5422	.6453	1.550	.84025	10						
33	.5446	.6494	1.540	.83867	57	.6293	.8098	1.235	.77715		
10	.5471	.6536	1.530	.83708	50	10	.6316	.8146	1.228	.77531	
20	.5495	.6577	1.520	.83549	40	20	.6338	.8195	1.220	.77347	
30	.5519	.6619	1.511	.83389	30	30	.6361	.8243	1.213	.77162	
40	.5544	.6661	1.501	.83228	20	40	.6383	.8292	1.206	.76977	
50	.5568	.6703	1.492	.83066	10	50	.6406	.8342	1.199	.76791	
34	.5592	.6745	1.483	.82904	56	40	.6428	.8391	1.192	.76604	
10	.5616	.6787	1.473	.82741	50	10	.6450	.8441	1.185	.76417	
20	.5640	.6830	1.464	.82577	40	20	.6472	.8491	1.178	.76229	
30	.5664	.6873	1.455	.82413	30	30	.6494	.8541	1.171	.76041	
40	.5688	.6916	1.446	.82248	20	40	.6517	.8591	1.164	.75851	
50	.5712	.6959	1.437	.82082	10	50	.6539	.8642	1.157	.75661	
35	.5736	.7002	1.428	.81915	55	41	.6561	.8693	1.150	.75471	
10	.5760	.7046	1.419	.81748	50	10	.6583	.8744	1.144	.75280	
20	.5783	.7089	1.411	.81580	40	20	.6604	.8796	1.137	.75088	
30	.5807	.7133	1.402	.81412	30	30	.6626	.8847	1.130	.74896	
40	.5831	.7177	1.393	.81242	20	40	.6648	.8899	1.124	.74703	
50	.5854	.7221	1.385	.81072	10	50	.6670	.8952	1.117	.74509	
36	.5878	.7265	1.376	.80902	54	42	.6691	.9004	1.111	.74314	
10	.5901	.7310	1.368	.80730	50	10	.6713	.9057	1.104	.74120	
20	.5925	.7355	1.360	.80558	40	20	.6734	.9110	1.098	.73924	
30	.5948	.7400	1.351	.80386	30	30	.6756	.9163	1.091	.73728	
40	.5972	.7445	1.343	.80212	20	40	.6777	.9217	1.085	.73531	
50	.5995	.7490	1.335	.80038	10	50	.6799	.9271	1.079	.73333	
37	.6018	.7536	1.327	.79864	53	43	.6820	.9325	1.072	.73135	
10	.6041	.7581	1.319	.79688	50	10	.6841	.9380	1.066	.72937	
20	.6065	.7627	1.311	.79512	40	20	.6862	.9435	1.060	.72737	
30	.6088	.7673	1.303	.79335	30	30	.6884	.9490	1.054	.72537	
40	.6111	.7720	1.295	.79158	20	40	.6905	.9545	1.048	.72337	
50	.6134	.7766	1.288	.78980	10	50	.6926	.9601	1.042	.72136	
38	.6157	.7813	1.280	.78801	52	44	.6947	.9657	1.036	.71934	
10	.6180	.7860	1.272	.78622	50	10	.6967	.9713	1.030	.71732	
20	.6202	.7907	1.265	.78442	40	20	.6988	.9770	1.024	.71529	
					30	30	.7009	.9827	1.018	.71325	
					20	40	.7030	.9884	1.012	.71121	
					10	50	.7050	.9942	1.006	.70916	
							.7071	1.	1.	.70711	
										45	
										or	
	Cosin.	Cotg.	Tan.	Sine.	Angle.		Cosin.	Cotg.	Tan.	Sine.	Angle.

TABLE IX.—CALCULATION OF EARTHWORK.

Width	HEIGHT														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.02	.04	.06	.07	.09	.11	.13	.15	.17	.18	.20	.22	.24	.26	.28
2	.04	.07	.11	.15	.18	.22	.26	.30	.33	.37	.41	.44	.48	.52	.56
3	.06	.11	.17	.22	.28	.33	.39	.44	.50	.56	.61	.67	.72	.78	.83
4	.07	.15	.22	.30	.37	.44	.52	.59	.67	.74	.81	.89	.96	1.04	1.11
5	.09	.19	.28	.37	.46	.56	.65	.74	.83	.93	1.02	1.11	1.20	1.30	1.39
6	.11	.22	.33	.44	.56	.67	.78	.89	1.00	1.11	1.22	1.33	1.44	1.55	1.67
7	.13	.26	.39	.52	.65	.78	.91	1.04	1.16	1.30	1.42	1.55	1.68	1.81	1.94
8	.15	.30	.44	.59	.74	.89	1.04	1.19	1.33	1.48	1.63	1.78	1.92	2.08	2.22
9	.17	.33	.50	.67	.83	1.00	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33	2.50
10	.18	.37	.56	.74	.93	1.11	1.30	1.48	1.67	1.85	2.04	2.22	2.41	2.59	2.78
11	.20	.41	.61	.82	1.02	1.22	1.43	1.63	1.83	2.04	2.24	2.44	2.65	2.85	3.06
12	.22	.44	.67	.89	1.11	1.33	1.56	1.78	2.00	2.22	2.44	2.67	2.89	3.11	3.33
13	.24	.48	.72	.96	1.20	1.44	1.68	1.92	2.16	2.41	2.65	2.89	3.13	3.37	3.61
14	.26	.52	.78	1.04	1.30	1.55	1.81	2.08	2.33	2.59	2.85	3.11	3.37	3.63	3.89
15	.28	.56	.83	1.11	1.39	1.67	1.94	2.22	2.50	2.78	3.06	3.33	3.61	3.89	4.17
16	.30	.59	.89	1.18	1.48	1.78	2.07	2.37	2.67	2.96	3.26	3.56	3.85	4.15	4.44
17	.31	.63	.94	1.26	1.57	1.89	2.20	2.52	2.83	3.15	3.46	3.78	4.09	4.41	4.72
18	.33	.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.33	4.67	5.00
19	.35	.70	1.06	1.41	1.76	2.11	2.46	2.82	3.17	3.52	3.87	4.22	4.57	4.92	5.28
20	.37	.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70	4.07	4.44	4.81	5.18	5.56
21	.39	.78	1.17	1.55	1.94	2.33	2.72	3.11	3.50	3.89	4.28	4.67	5.06	5.44	5.83
22	.41	.81	1.22	1.63	2.04	2.44	2.85	3.26	3.67	4.07	4.48	4.89	5.30	5.70	6.11
23	.43	.85	1.28	1.70	2.13	2.56	2.98	3.41	3.83	4.26	4.68	5.11	5.54	5.96	6.39
24	.44	.89	1.33	1.78	2.22	2.67	3.11	3.56	4.00	4.44	4.89	5.33	5.78	6.22	6.67
25	.46	.92	1.39	1.85	2.31	2.78	3.24	3.70	4.17	4.63	5.09	5.56	6.02	6.48	6.94
26	.48	.96	1.44	1.92	2.41	2.89	3.37	3.85	4.33	4.82	5.30	5.78	6.26	6.74	7.24
27	.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
28	.52	1.04	1.55	2.07	2.59	3.11	3.63	4.15	4.67	5.18	5.70	6.22	6.74	7.26	7.78
29	.54	1.07	1.61	2.15	2.68	3.22	3.76	4.30	4.83	5.37	5.91	6.44	6.98	7.52	8.06
30	.56	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00	5.55	6.11	6.67	7.22	7.78	8.33
31	.57	1.15	1.72	2.30	2.87	3.44	4.02	4.59	5.17	5.74	6.32	6.89	7.46	8.04	8.61
32	.59	1.18	1.78	2.37	2.96	3.56	4.15	4.74	5.33	5.92	6.52	7.11	7.70	8.30	8.89
33	.61	1.22	1.83	2.44	3.05	3.67	4.28	4.89	5.50	6.11	6.72	7.33	7.94	8.55	9.17
34	.63	1.26	1.89	2.52	3.15	3.78	4.40	5.04	5.67	6.29	6.93	7.56	8.18	8.81	9.44
35	.65	1.30	1.94	2.59	3.24	3.89	4.53	5.18	5.83	6.48	7.13	7.78	8.42	9.08	9.72
36	.67	1.33	2.00	2.67	3.33	4.00	4.66	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00
37	.68	1.37	2.06	2.74	3.42	4.11	4.79	5.48	6.17	6.85	7.54	8.22	8.91	9.59	10.28
38	.70	1.41	2.11	2.82	3.52	4.22	4.92	5.63	6.33	7.03	7.74	8.44	9.15	9.85	10.56
39	.72	1.44	2.17	2.89	3.61	4.33	5.05	5.78	6.50	7.22	7.95	8.67	9.39	10.11	10.83
40	.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.67	7.41	8.15	8.89	9.63	10.37	11.11

Table gives cu. yds. in 1 ft. of a triangle of given width and height. Corrections for tenths of width are one tenth the values found under each height considering the widths from 1 to 9 as tenths and similarly the corrections for tenths of height are one tenth the figures opposite width considering the heights from 1 to 9 as tenths. Thus if w = 16.2 and h = 5.3, cu. yds. = 1.48 + .028 + .089 = 1.597 cu. yds. or practically 160 cu. yds. per 100 ft. If w exceeds 40 ft., use one half and multiply result by 2, if both w and h are large use one half of each and multiply result by 4. Any cross-section may be divided into triangles by the following rule. To the triangle of the sum of the outside cuts (or fills) = h, and 1/2 the roadbed = w, add the triangles formed by taking the distance out to each break in turn (=w's) by the difference between the cuts (or fills) on each side of it (=h's) always subtracting the outer from the inner.

24 27
23.16
614 $\overline{) .516}$ 00132
614
1960
1842

1.00093
63 $\overline{) .0100}$
387
170

00132
43
396
528
05676

614
0.00093
1842
5836
5710

2131
29.50
81

23.26
683 $\overline{) .040000}$
3415
5830

0.00059
46
254
236
000714

00132
00115
703 $\overline{) .81}$
703
1070
703
3670

m.3

00115
46
690
460
05290

00115
43
346
460
104946

3L. Brooklyn = 195.7 = 2

166.92 = hub
SW Hollywood
+ Tyrant.

178
 $\overline{) 195.6}$

17.7

NW. Brant 259
25' W 258.6
45' 258.5
65' 258.4
85' 258.0
105' 258.8
PL. 250' W 261.1

99.56

9.56
7.40
6.76

1.0153
0.0001
1.0092

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101520
11065898

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3.5

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1006010
10965109

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223.42

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1.43000
1.01212

99795
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5.88
34.12
15.00
19.12

170.08
15.0

16733 S.W. Willow

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1 1/2. For Single Track Embankment.

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

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