

1558

1852

EXPOSERS

W. D. LOCK

NO. 11

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 $1\frac{1}{2}$ see inside of back cover.

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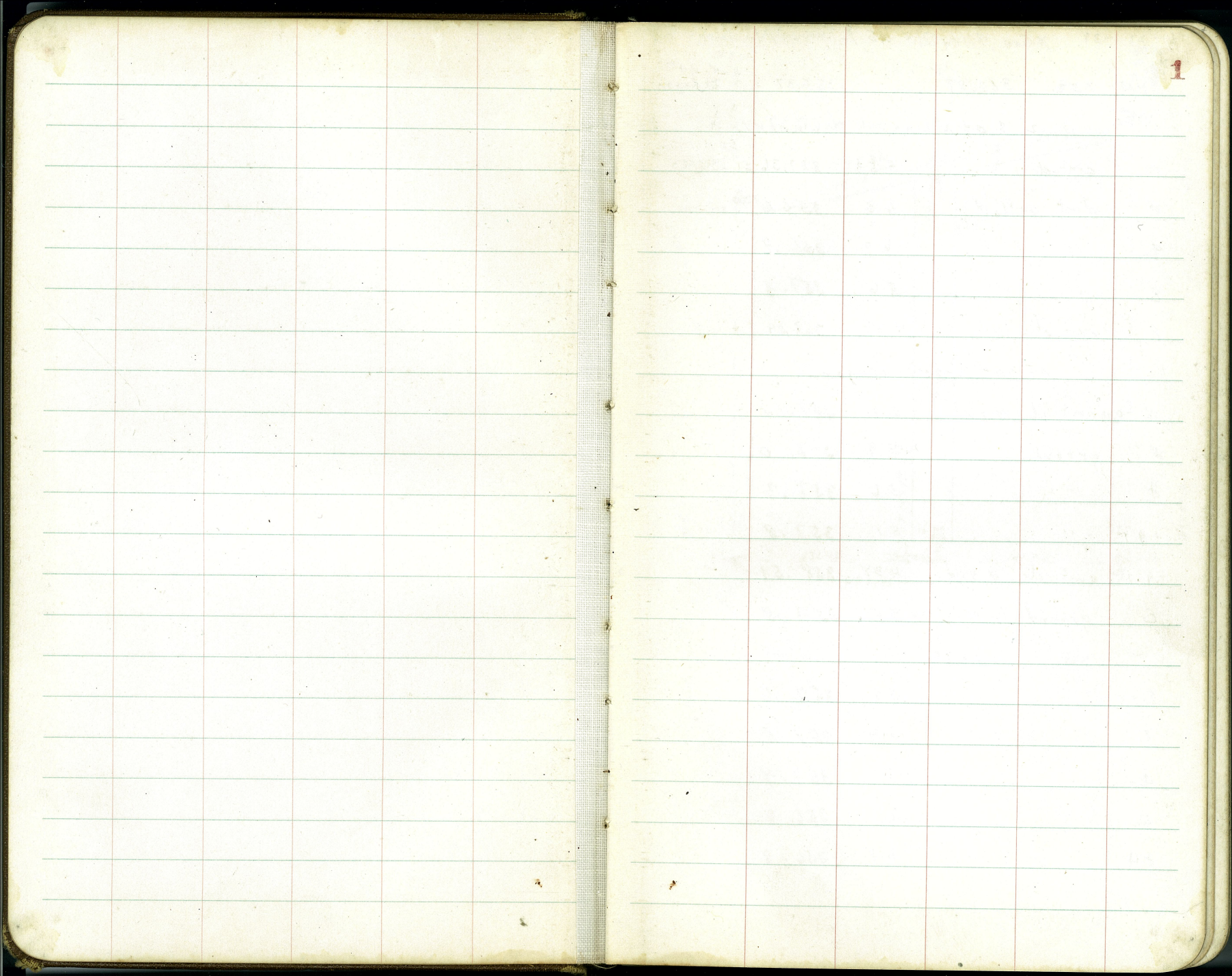
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INDEXED

Completely

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

Made in U. S. A.



6-27 -38 X Sec. Alley BIK. 45 Fairmont Add
 Miller
 Walker
 Bliss
 BM 7.52 362.89 355.37 S.W. 49th
 & El Cajon

12' S. of N. Line = N. cl. Line Trojan.

W.	emt. d.	5.53	357.36 = 357.43
W.	dirt gutter	6.3	356.6
±	"	6.0	356.9
E	"	5.6	357.3
E.	emt. d.	4.85	358.04

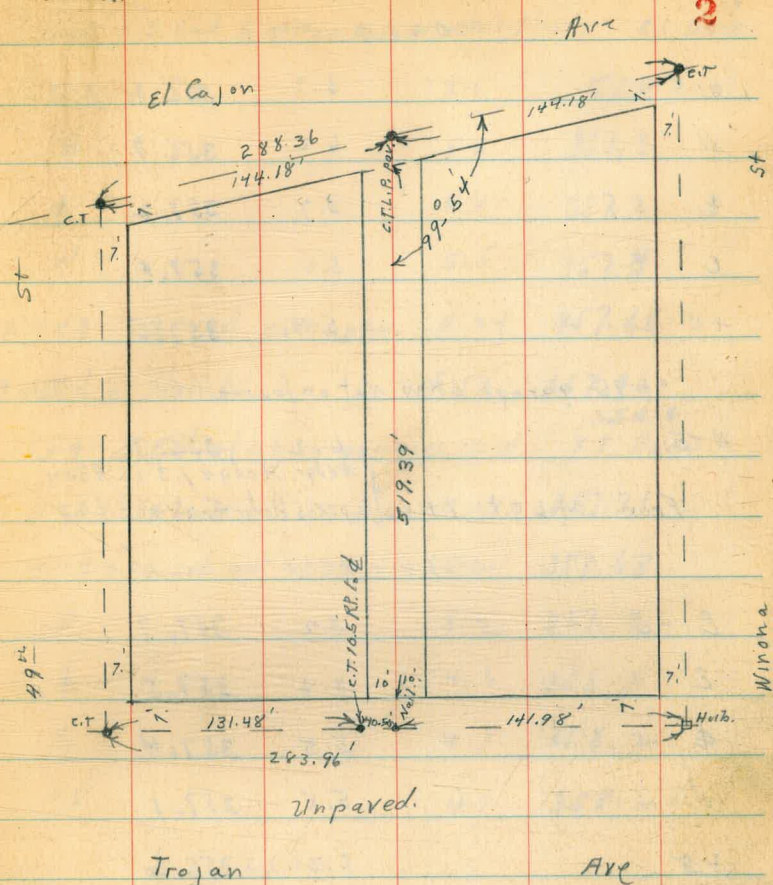
0+00 = N. Line Trojan

W - 0.10	emt. cl N. end.	5.41	357.48
W.	ground.	5.9	357.0
±	"	5.6	357.3
+9.75	"	5.1	357.8
+9.75	emt. cl N. end.	4.38	358.51
E	ground to N	51	357.8

0+15

E-5		5.3	357.6
E		5.4	357.5
±		5.5	357.4
W		6.1	356.8
+4		6.1	356.8

Indexed
 C.S.K.



362.89

0+50

W-5	6.7	356.2
W	6.2	356.7
⊕	5.7	357.2
C	5.5	357.4
+5	5.4	357.5

0+90 garage on W Not on foundations 5' 0" Back.

W-5	6.2	356.7
From 0+60 to 1+20 { Wedge Hedge 1.3' in Alley Cypress Hedge Trees on E-Line		

1+00

E-5	5.2	357.7
E	5.4	357.5
⊕	5.5	357.4
W	5.8	357.1
+5	6.3	356.6

1+40

-5	6.2	356.7
W	6.1	356.8
⊕	5.9	357.0
E	5.9	357.0
+5	5.7	357.2

362.89

Alley BIK 45 Fairmont Add.

3

1+55 = S. End 5 garage S. on W. cmt. floors 8.1 Back.

E-5	5.5	357.4
⊕	5.6	357.3
⊕	5.6	357.3
W	5.5	357.4
W+4.3 = E. end cmt. apron	5.24	357.65
W+8.1 = floor	5.13	357.76
1+97 N. End. of above garages. on W	354.8	8.1 Back.
W-8.1 = floor	5.18	357.71
W-4.3 = E. end. cmt. apron	5.21	357.68
W	5.2	357.7
⊕	4.6	358.3
E.	4.7	358.2
+5	4.7	358.2

2+27

E. W of ⊕ = Sewer M.H.	4.3	358.6
------------------------	-----	-------

2+40

-5	4.2	358.7
⊕	3.9	359.0
⊕	4.1	358.8
W	4.4	358.5
+5	4.4	358.1

362.89'

2+80

W-5	5.6	357.3	
W	5.5	357.4	
⊕	5.0	357.9	
E	4.9	358.0	
+5	4.7	358.2	
3+00			
E-50	4.4	358.5	
E-25	4.9	358.0	
E	5.4	357.5	
⊕	5.4	357.5	
+8	5.4	357.5	
W	5.8	357.1	
+50	7.8	355.1	
+90	9.1	353.8	Low point.
+122	9.1	353.8	"
+125 = E. Line 49 th	8.7	354.2	
+128.5 = E. of emt. walk	8.74	354.15	
W+137 = E. ab. of 49 th	8.76	354.13	
W+137 = gutter pav.	9.20	353.59	

362.89

Alley BIK 45 Farmout #1

3+30

4

W-50	8.0	354.9	
W-2	7.4	355.5	
W	6.6	356.3	
E	6.5	356.4	
+2	6.7	356.2	
+50	5.6	357.3	
3+70			
E-50	5.3	357.6	
E	6.0	356.9	
⊕	6.2	356.7	
+5	5.6	357.3	
W	6.3	356.6	
+10	6.3	356.6	
3+85			
-5	6.1	356.8	
W	6.0	356.9	
⊕	5.4	357.5	
E	5.0	357.9	
+5	3.0	359.9	

	362.89			
E-26		4+240.6	364.0	362.3
C-5		2.3	360.6	
E		4.2	358.7	
±		4.4	358.5	
+7		4.7	358.2	
W		5.5	357.4	
+10'		5.6	357.3	
		4+26		
-10		5.6	357.3	
W		5.5	357.4	
+3		4.7	358.2	
±		4.4	358.5	
E		4.2	358.7	
+5		4.0	358.9	
+20		2.6	360.3	
T.P.	9.06	367.69	4.26	358.63
		4+65		
E-20		7.2	360.5	
E		7.5	360.2	
±		7.7	360.0	
W		7.9	359.8	
+10		8.1	359.6	

	367.69				Alley BIK 45 Fairmont Add.
					5
				4+80	
W-10		7.8	359.9		
W		7.0	360.7		
±		7.0	360.7		
+8		6.4	361.3		
E		5.6	362.1		
+5		5.1	362.6		
		5+00			
-5		4.2	363.5		
E		4.7	363.0		
±		5.2	362.5		
W		5.9	361.8		
+10		6.0	361.7		
± station 5+19 ³⁹					{ S. line El Cajon } on diagonal
W-0.10'		ent. el.	S. End	4.29	363.40
W		par	" "	4.45	363.24
±		"	" "	4.17	363.52
+9.75		"	" "	3.50	364.19 + ground
+9.75'		ent. el.	" "	3.10	364.59

367.69

16' N of S. Line = S. ch. Line El Cajon (on diagonal)

E. cont. ch 306 364.63

E. par 3.62 364.07

E. 4 4.07 363.62

W 4 4.66 363.03

W cont. ch 4.25 363.44

chks. orig B.M. 12.32 355.37

Alley BIX. 45 Fairmont. Add.

6

6-29-38
Miller
Bliss

X Sec Alley BIK. 36 Fairmont Adol.

B.M. Page 2.	3.66	361.02 ✓		357.36	N. ch. Line Trojan W. Line Alley
T.P.	0.58	350.02 ✓	11.58	349.44 ✓	
T.P.	2.69	339.86 ✓	12.85	337.17 ✓	
B.M. B.P.			4.94	332.95 ✓	S. B. 49 th Orange Ave.
				332.95	

14' s. of N. Line = N. ch. Line Orange

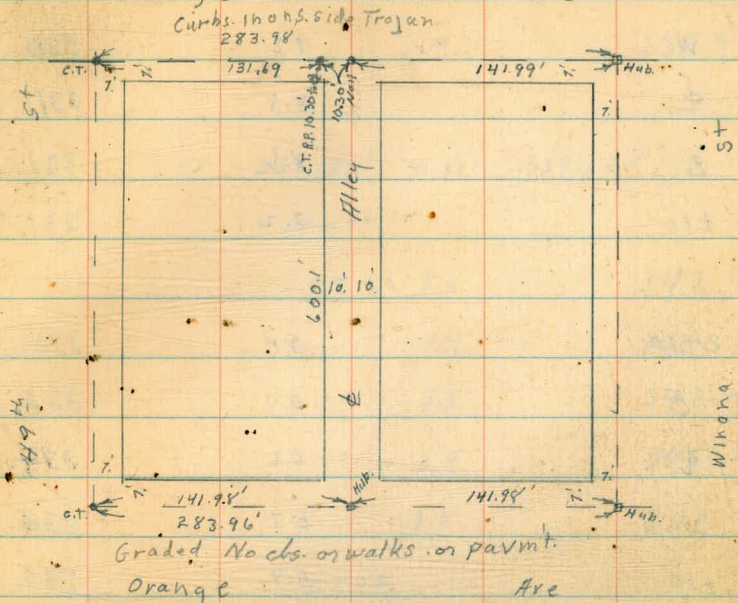
E. Line 49 th St.		gutter par	9.84	329.98
W. Line Alley		gutter	11.3	328.6
" " "		dirt ch	10.1	329.8
E " "		" "	10.4	329.5
E " "		gutter	11.3	328.6

0+00 = N. Line Orange

E			10.2	329.7
ch			10.1	329.8
W			10.0	329.9
		0+06		
W-15			15.4	324.5
W			14.4	325.5
ch			13.8	326.7

Indexed
C.S.K.

Trojan Ave



E			13.4	326.1
+15			13.7	326.2
		0+15		
E-15			12.4	327.5
E			12.7	327.2
ch			12.8	327.1
W			13.6	326.3
+15			14.5	325.4

	339.86 ✓		
	0+40		
W-10	9.3	330.6	
W	9.2	330.7	
♀	8.8	331.1	
E	8.6	331.3	
+10	8.2	331.7	
	0+70		
E-10	5.4	334.5	
E	5.4	334.5	
♀	5.6	334.3	
W	5.7	334.2	
+10	5.9	334.0	
	1+00		
W-10	3.5	336.4	
W	3.1	336.8	
♀	3.0	336.9	
E	3.2	336.7	
+10	2.6	337.3	
	1+25		
E-10	0.3	339.6	
E	0.8	339.1	
♀	0.8	339.1	

	339.86 ✓		Alley BIK. 36. Fairmont
W		1.0	338.8
+10		1.0	338.9
T.P.	12.81	352.50 ✓	0.17 339.69 ✓
		1+60	
W-10		9.6	342.9
W		9.4	343.1
♀		9.3	343.2
E		9.5	343.0
+10		9.5	343.0
		2+00	
E-10		5.7	346.8
E		5.4	347.1
♀		5.9	346.6
W		5.8	346.7
+10		5.9	346.6
T.P.	12.56	364.35 ✓	0.71 351.79 ✓

	364.35	2+50	
W-10		12.7	351.7
W		12.5	351.9
⊕		12.2	352.2
E		11.5	352.9
+10		10.9	353.5
		3+00	
-10		5.8	358.6
E		6.7	357.7
⊕		6.9	357.5
W		7.5	356.9
+10		8.3	356.1
		3+50	
W-10		1.4	362.6
W		1.7	362.7
⊕		0.8	363.6
E		0.6	363.8
+10		+0.4	364.8
T.P.	5.39	369.51 ✓	0.23
			364.12 ✓

	369.51 ✓	Alley B/R. 36 Fairmont
	3+75	
E-10	3.2	366.3 ⁹
E	3.5	366.0
⊕	3.7	365.8
W	4.2	365.3
+10	4.6	364.9
3+77 = S. End double Garage on W. ent floor 0.2' Back		
W-0.2 = floor	2.93	366.58
W.	3.3	366.2
+4	3.7	365.8
⊕	3.3	366.2
E	3.3	366.2
+10	3.0	366.5
3+93 = N. End of above garages on W. 0.60' in Alley		
9.4 W of ⊕ = floor		
	4+00	
E-10	2.1	367.4
E	2.2	367.3
⊕	2.9	366.6
+9.3 = S. End. Fence	3.0	366.5 ⁵
W.	3.7	365.8
+10	4.5	365.0

349.51

4+25

W-5	6.0	363.5
W	5.0	364.5
+1.2 fence	4.5	365.0
±	3.8	365.6
E	3.3	366.2

4+50

E	4.6	364.9
±	5.0	364.5
+8.4 fence	5.6	363.9
W	6.3	363.2
+5	7.3	362.2

?

W-5	7.5	362.0
W	7.2	362.3
+2 = N. End above fence	6.7	362.8
±	5.8	363.7
E	5.2	364.3

4+8' S. End double garage on W. Wood floor 2.2 in Alley

W+2.2 = floor	6.7	362.8
---------------	-----	-------

4+9' ⁵ N. End. above double garage 2.4 in Alley.

W+2.4 = floor	6.8	362.7
---------------	-----	-------

349.51 ✓

Alley BIK-34 Facemant

10

5+00

E	6.1	363.4
±	6.5	363.0
W	6.7	362.8
+5	6.7	362.8

5+30

W	7.0	362.5
+5	7.8	361.7
±	7.7	361.2
E	7.5	362.0

5+60

E	8.7	360.8
±	9.2	360.3
W	9.2	360.3

6+00' = S Line Trojan Ave

W+0.2 = cmt. d. S. End.	12.11	357.40
W. ground	11.5	358.0
± "	11.5	358.0
E "	11.2	358.3
+0.2' cmt. d. S. End.	11.27	358.24

36951

12. N. of S. Line = S. of Line of Trojan.

E. ent. ch	11.81	357.70
E. dirt gutter	12.0	357.5
E " "	12.2	357.3
W " "	12.8	356.7
W ent ch	12.42	357.09

chk. B.M. Page 7

12.14 357.37 = 357.36

Alley B) K. 36. Fairmont Ad

11

± Stations
N

3+61 Elec Pole # 173861 14' RT

3+09⁸⁵ E. Line Chester

2+94 E. End. Garage 25' Lt.

2+84⁸⁵ = ± Chester St. ± Mon.

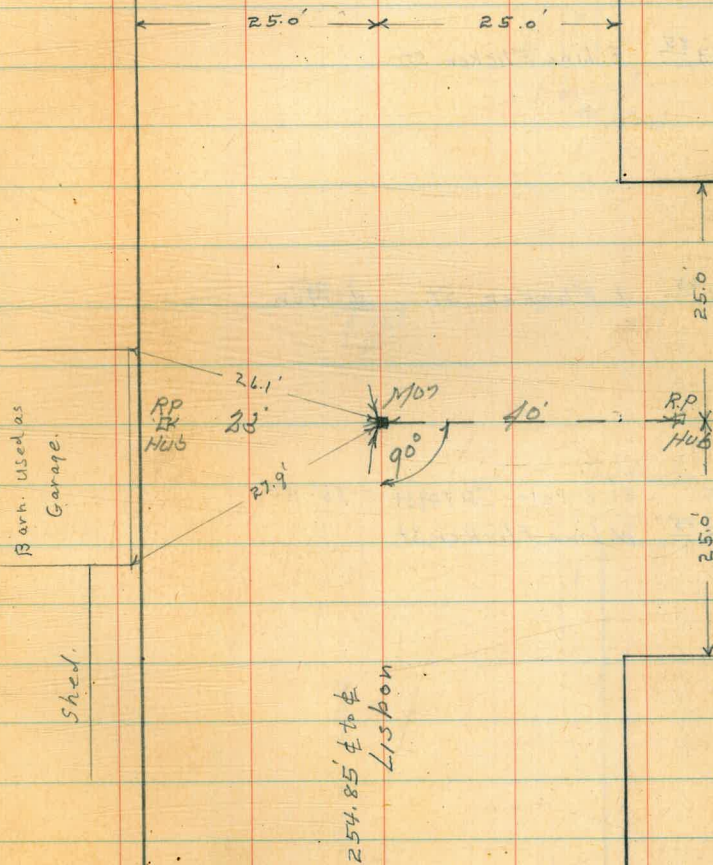
2+72 W. End. Garage 25' Lt.

2+61 Fire Hdt. 16.3' RT

2+59⁸⁵ = W. Line Chester St

Hub on T.P. Sheet 3240
1/31 percent
13

234.00' ± to ±
ST



E. Sta_n

6+82 W. End. Fence 23. RT

6+78 E. End. Double garage + store Room 25.0 RT

6+46 W. End Double Garage + store Room Car. 110g dirt floor 25.0 RT.

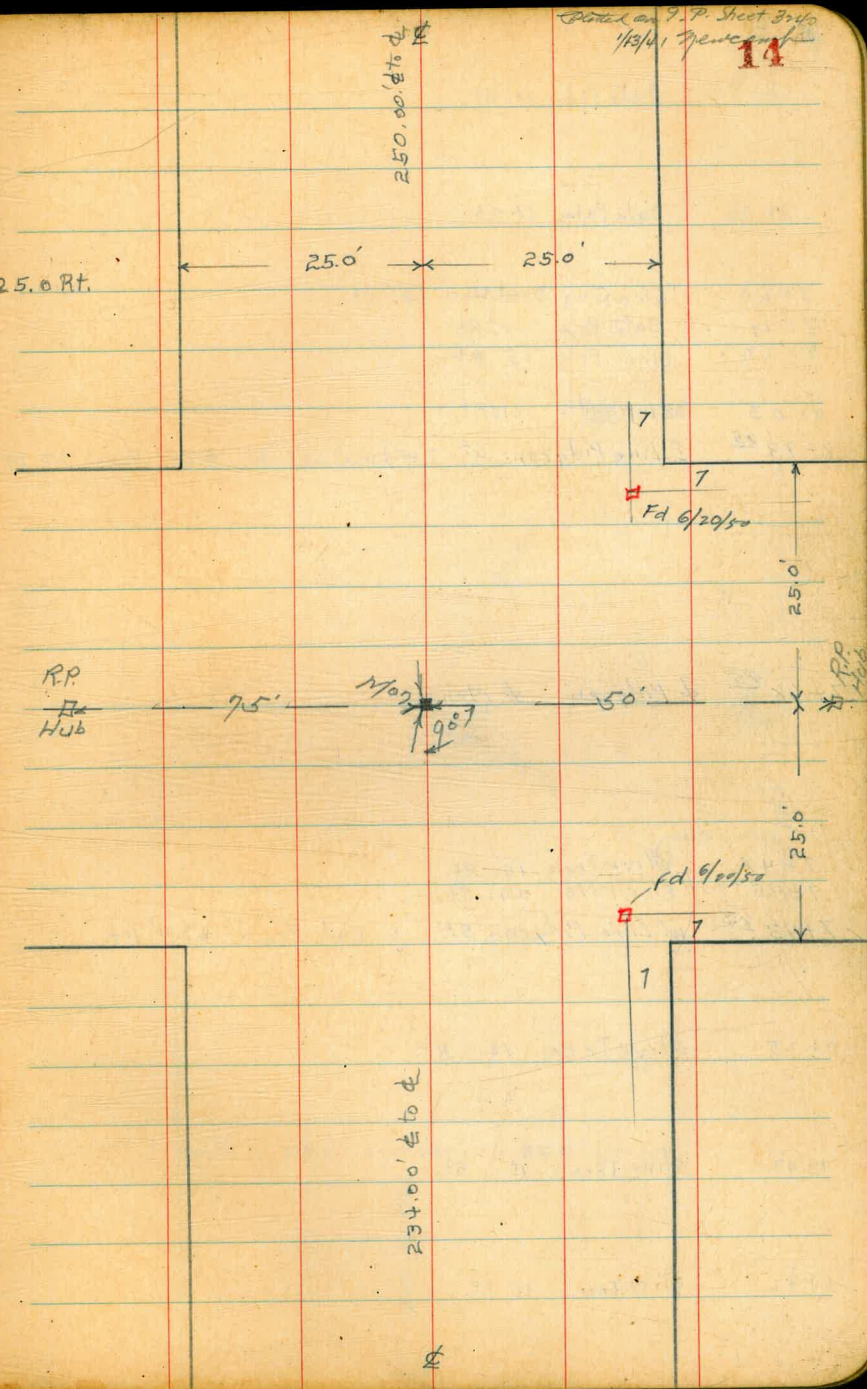
6+42 Elec Pole #P70930 16.5 RT.

5+43⁸⁵ E. Line Flicker St

5+18⁸⁵ & Flicker St. & Mon.

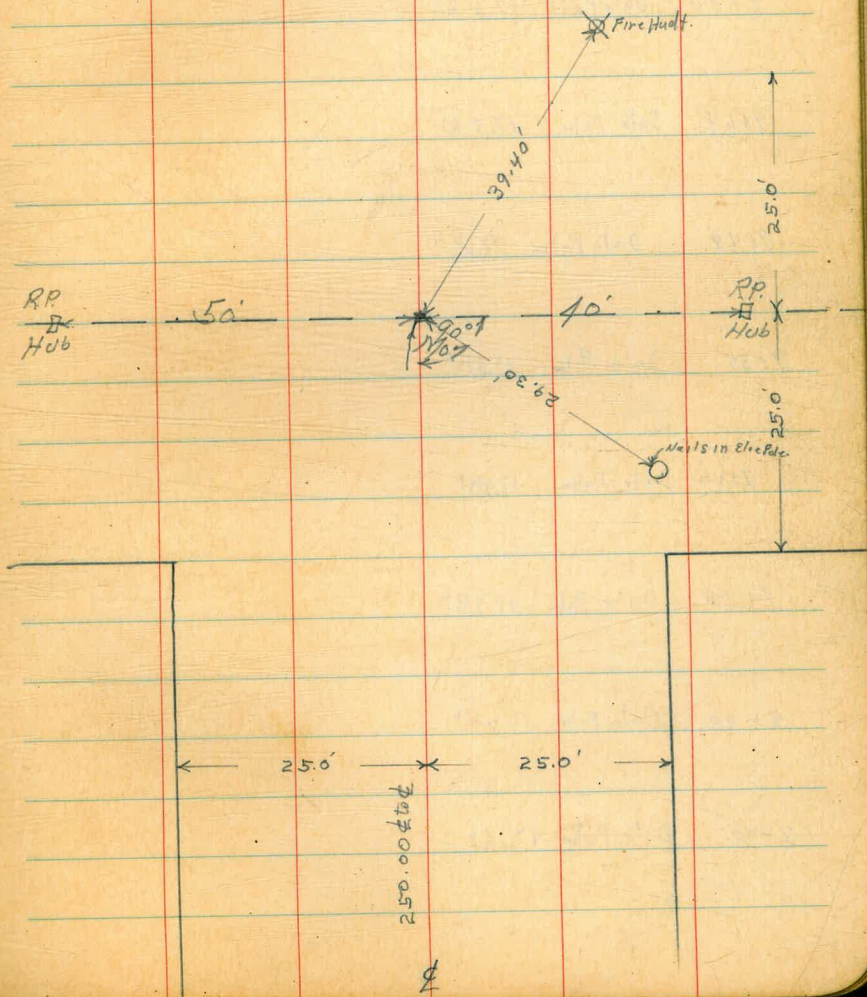
4+95 Elec Pole #P70931 16. RT

4+93⁸⁵ W. Line Flicker St.



Sta.

- 8+54 Date Palm 17' Rt.
- 8+36 Date Palm 17' Rt.
- 8+20 Elec Guy Dead Man 15' Rt.
- 8+17 Date Palm 17' Rt.
- 8+12 Elec Pole 15' Rt.
- 8+03 Fire Hydr. 16.5 Rt.
- 7+93²⁵ E. Line Pidgeon St. = W. Line Lot 59 W. End. Fence 23' Rt.
- 7+68²⁵ Pidgeon E. Mon.
- 7+48 Olive Tree 16' Rt.
- 7+45 Elec Pole 24' Rt.
- 7+43²⁵ W. Line Pidgeon St. E. End. Fence 23.4' Rt.
- 7+25 Olive Tree 16' Rt.
- 7+07 Olive Tree 15' Rt.
- 6+92 Olive Tree 15' Rt.



£ Stan

10
2+05 Date Palm 18' RT

9+94 Date Palm 17.9 RT

9+80 Date Palm 17.8 RT

9+64 Date Palm 17.7 RT

9+49 Date Palm 17.6 RT

9+35 Date Palm 17.5 RT

9+20 Date Palm 17.4 RT

9+05 Date Palm 17.3 RT

8+90 Date Palm 17.2 RT

8+70 Date Palm 17.1 RT

£

16

£

E. Ste. n

17

10 + 46⁶⁶ E. Line Rd.

10 + 26⁶⁶ W. Line 20' Rd. E. End Fence 24.7 Rt.

L. St.

18

14 + 17⁰⁶

♀ Hub. P.O.T.

RR
Hub

50'

Hub
90°

50'

RR
Hub

♀

2

19

2

E. Sta
N

17+50

Now = P.O.T. 6-20-50

17+25¹⁰

E. Line Lot. 58 Lisbon Townsite E Mon $\Delta 0^{\circ} 02' 30''$

Fd. several surveys in this area.
Made from pipe (3/4" L+T) set on

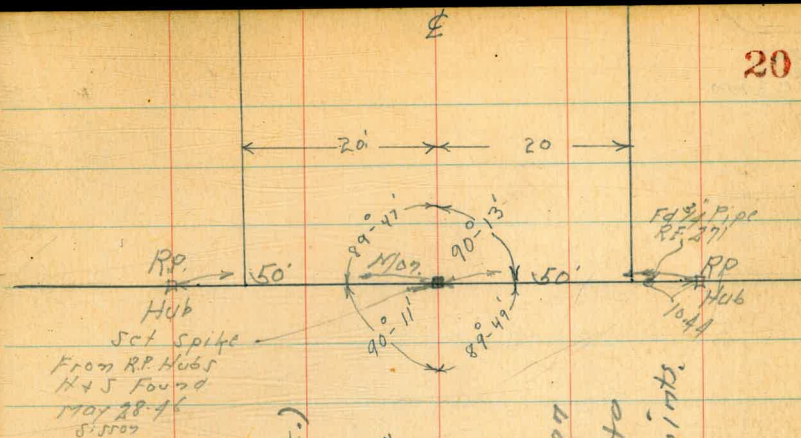
E'y. line lot 58 Lisbon Townsite and on
Tangent from Flicker St. to B.C. Jarmacha
Road + Lisbon (Sta 33+73⁰⁰ page 24 this book.)

City Mon. + Tie hubs are gone.

These surveys eliminate 00.02'-30" A at
this point.

Recommend that existing points
be accepted and that Δ of Lisbon
be run on tangent from Flicker to
Jarmacha and so meet existing points.

~~at~~
6-23-50



23+00

21

18+00

28+00

22

23+50

P. Steu

33700

29782 P.O.T. Hub.

29750

29700

28750

23

RP
Hub

46

* Hub
90° → 40'

RP
Hub

Station

36+23⁴⁷ E.C. Hub. ϕ Def L. $14^{\circ}19'$

36+00 $12^{\circ}54.3'$

+50 $10^{\circ}06.4'$

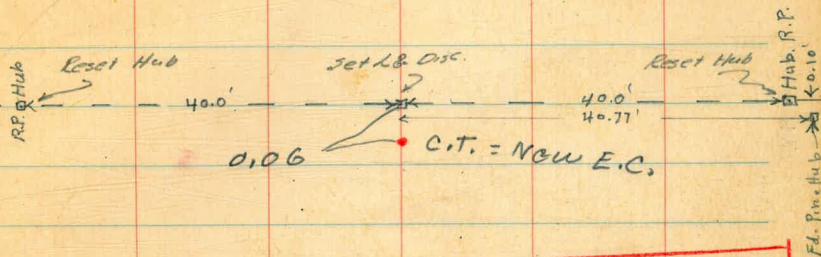
35+00 $7^{\circ}14.5'$

+50 $4^{\circ}22.6'$

34+00 $1^{\circ}30.7'$

33+73⁶⁰ B.C. Hub. ϕ

33+50



~~$\Delta = 28^{\circ}38' Lt.$
 $R = 500.0'$
 $T = 127.60$
 $L = 247.87$
 249.87~~

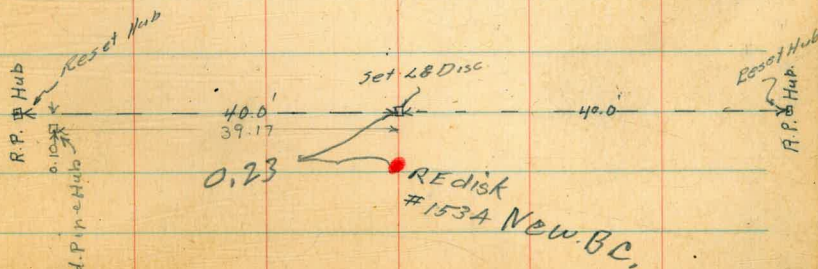
P.I. Hub.

Revision of
back tang.
Makes curve
data =

$\Delta 28^{\circ}39'-15''$
 $R = 500$
 $T = 127.72$

See page 20

See notes:
File: 198-1755
4-21-71
CLARK



ϕ

± Sta

41+95.70

41+70.82

41+66.27

41+50

41+00

40+50

40+00

39+75.27

Def L.
W. Line Beacon Hill sub.
Hub ±
Hub ±
F.C. Hub ±
5-29.5

5-00.3

3-34.4

2-08.4

0-42.5

B.C. Lt. Hub ±

See Page 27
for Detail

to City Mon. N.W. Cor.
Meas 720.12
Map. 720.23

Beacon Hill

fd. old Hub

30.0'

30.0'

41+95.70

W. Line Beacon Hill, F.M. 1302

38.97'

50-20'

34.4'

R.P. Hub

30.0'

40.0'

R.P. Hub

Set L & Disc

38.5'

Set L & Disc

11-29-45

Hendricks

38.97'

49.76'

fd. old Hub

$\Delta = 10^{\circ}59'$ Lt.
R = 1000.
T = 96.15
L = 191.70

P.I. Hub

4-12-71

R.P. Hub

Reset Hub

20.0'

Set L & Disc

11-29-45

Hendricks

30'

40.0'

Set city Disc

4-12-71
Reset Hub

R.P. Hub

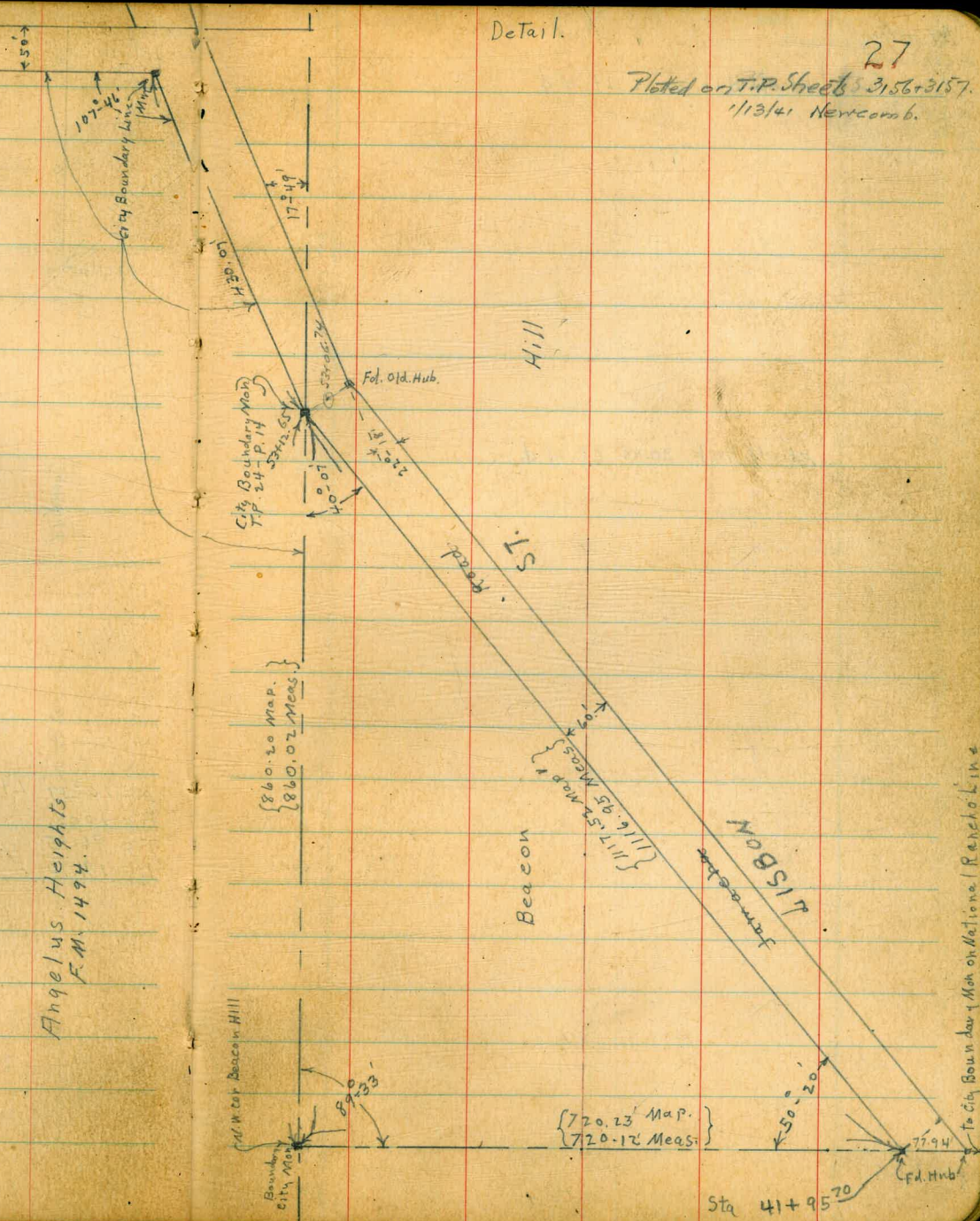
Plot on T.P. Sheet 3157
11/3/41
26

St along
Left Side St.
Same as
Sta 70
(Sta 53+06.74)

Detail.

27

Plotted on T.P. Sheets 3156+3157.
1/13/41 Newcomb.



Notes
Go along
Left Side
of St. Same
as to Sta 62
(Sta 53+06.74)

Fd. old. Hub. 30.02 Lt. of d

Fd. old. Hub. 30.05 Lt. of d

Station as to P. Sheet 3157
1/24/11
28

233.45

30.0

30.0

350.88

53+12.65 on N. Lines Pt 20' W of Sta 53+06.74 at Angle Pt. H₁₇₀

↑
53+06.74
N

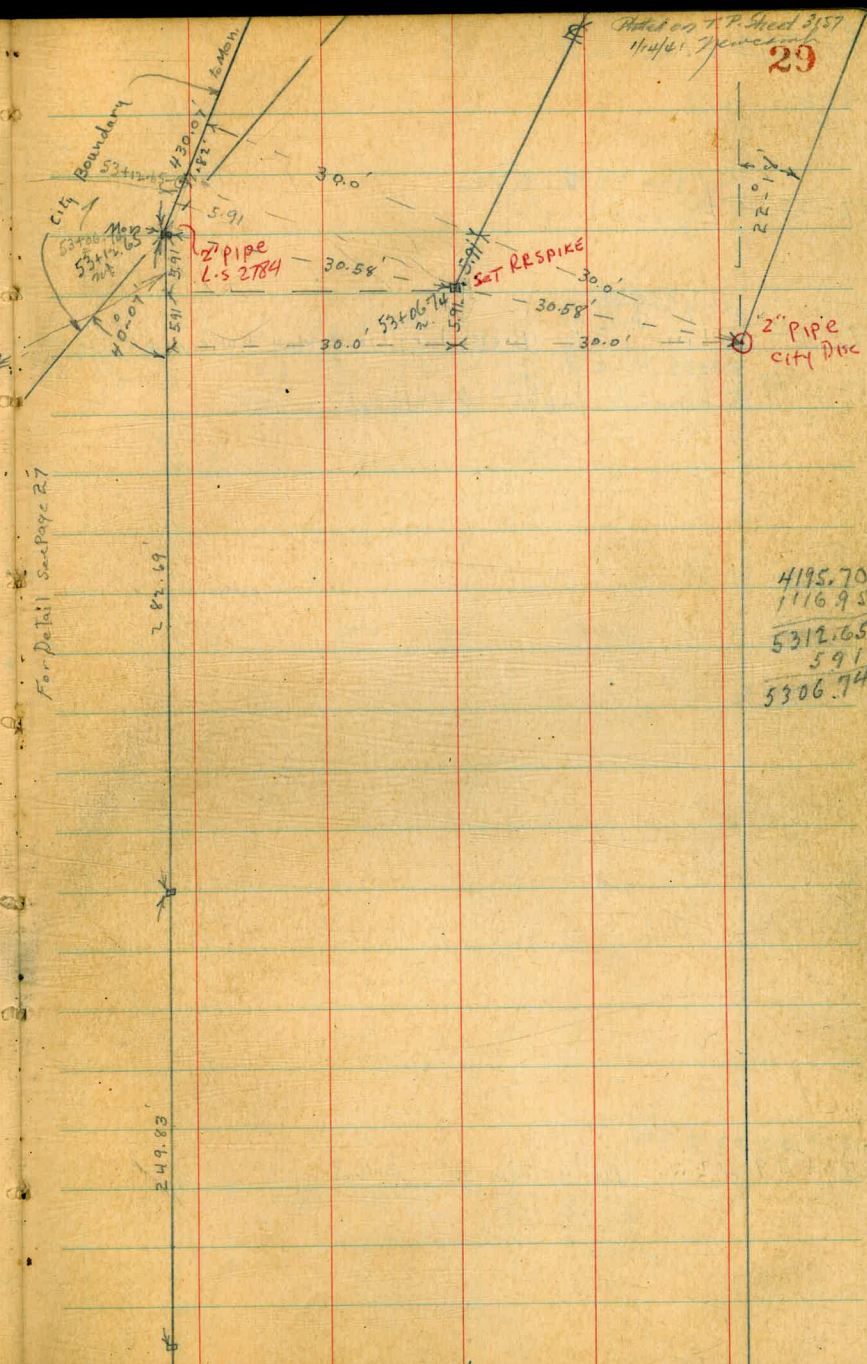
53+12.65 } N.L. Hub $\angle 22^{\circ}18'$ At on L. St Line = 53+06.74 Sta

Along L. Side
St. Same as
E. Sta to Sta 53+06.74
N.

Note: The above Sta 53+12.65 Corrected to E Sta at Angle point by Subtracting 5.91 = 53+06.74 + Line Centred along Left Side of Street. As there is another difference of 5.91 feet between Side Line Sta + Sta. at this Angle Point, Sta. beyond 53+06.74 should be reduced by 5.91 to get E Sta. $\frac{6/1/40$.

$\angle 22^{\circ}25'$?
R 500 ?

fd old. Hub. 30'. Lt of ϕ



Plot on T.P. Sheet 3157
11/4/41. Jewel
29

2" PIPE
CITY PUC

4195.70 ✓
1116.95 ✓
5312.65 ✓
5.91
5306.74

For Detail See Page 27

282.69

249.83

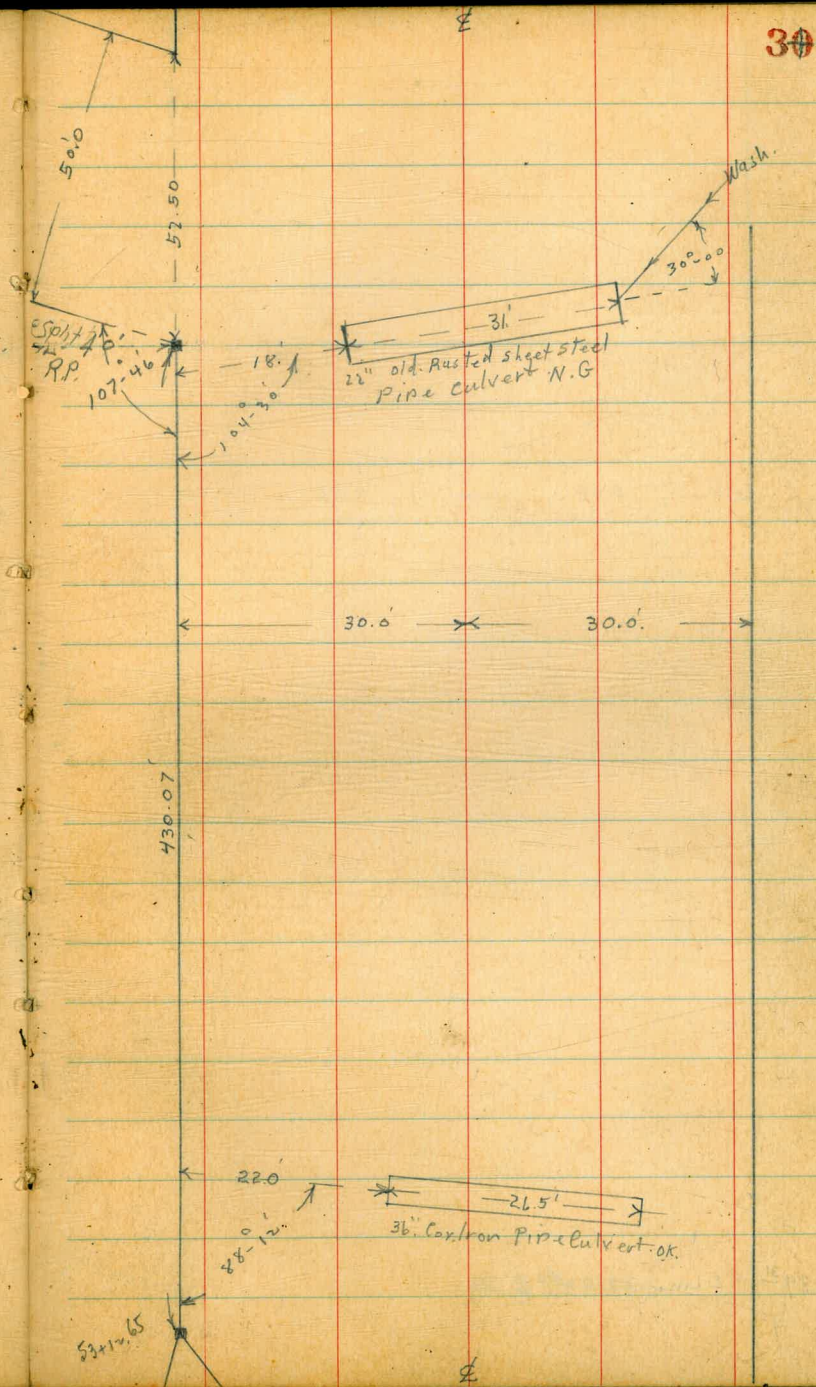
57+83.40 = E Sta
57+89.31 E. Line on N. Line Sta

(Stadlong Leaf)
Line of St.
N

57+63.06 = 57+57.15 = E Sta. in
on N. Line

57+30.90 = E Sta. in
57+36.81 W. Line on N. Line City Boundary Line Mon N.W. cor 50-02 Rt.
57+29.49 = E Sta. in
57+35.40 N. Line = Production & Culvert

53+53.09 = E Sta. in
53+59 N. Line = production & culverts





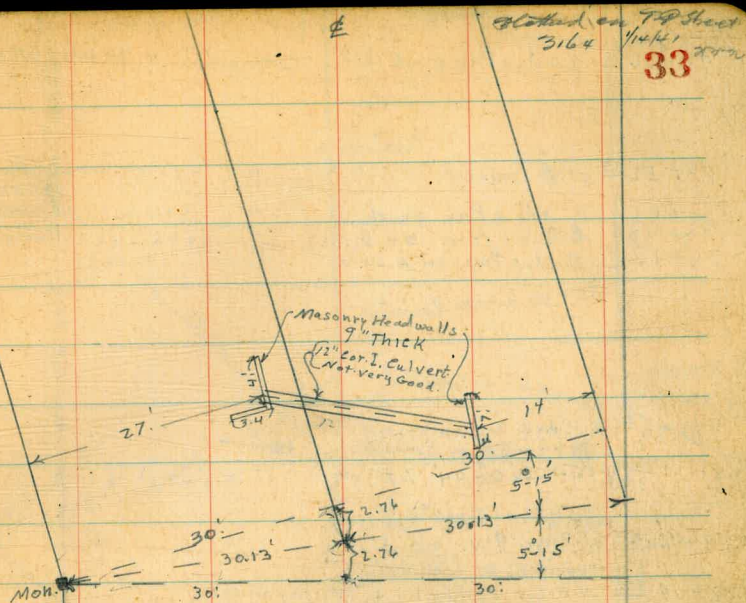
57+89³¹ (E. line) 57+83⁴⁰ ϕ Sta.

73+31 = 73+25.09_w
3. Lt. = ϕ N. End. Inlet Culvert.

73+20^E = 73+14.59_w
16. Rt. = ϕ S. End. outlet Culvert

72+88^S ϕ Sta as corrected_m
72+94^W ϕ Δ 10-30 Lt Mon. N. Line. Δ

Δ 10-32
R 1000'
T 92.18
L 183.84



7294.41
6670.17
6.64.24
4.57
659.67

2.76
1.81
4.57

Alignment Beacon Drive

INDEXED

OCT 17 1950



Beacon Hill

Terrace Wind.

Fe 3/4" Pipe + Disc
R 1534

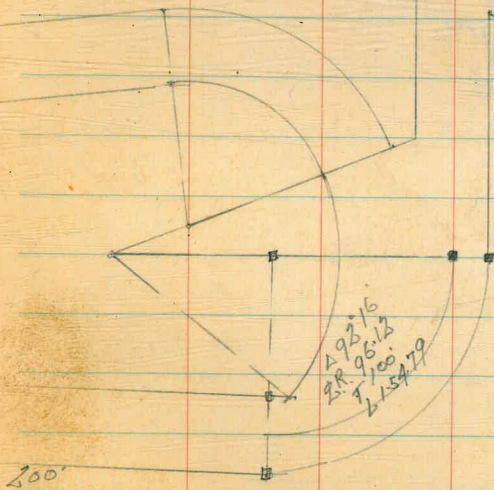
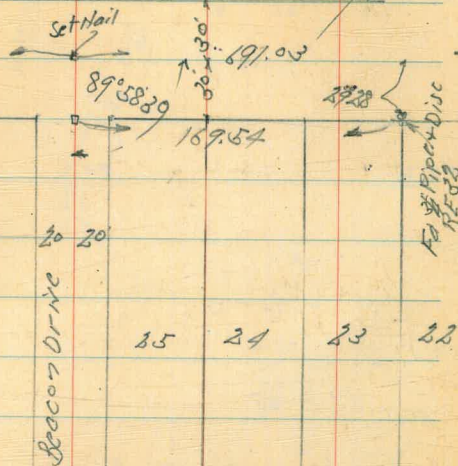
Δ 50.00
289.5
145.0
24.21

Samocha Road.
144.92

Indicates
□ Hub Found
■ Hub Set.

Oct. 16-50
H.S. Iron
Garber
Patten
No. 20008

36



X See Lisbon St
& Jamaica Road

0+30

0+21

0+17

0+06²

0+00

14² W. of 0+00

Reduced by
Plotted by - Gutensohn

Lt.

±

Rt.

37

252.6
56
25
5.2
20
253.0
51
151
253.1
4.93
5.3
253.23
4.78
253.38
4.75
16
253.41
5.1
25
253.1
7.8
40
253.9
5.5
5.5

4.93
5.3
N. Edge Pav
4.78
16
S. Edge Pav
5.1
25
S. Line 25

253.12
4
N. Edge Pav

253.3
4.90
25.5
S. Edge Pav

252.9
5.3
5.28
N. Side Pav
252.88
5.28
253.10
5.28
253.0
4.45
253.71
5.25
252.91
12.3
24.59
12.3
4.5
24.59

252.8
5.4
5.38
N. Pav
252.78
5.21
5.2
253.0
4.5

246.9
11.3
246.9
11.3
246.22
11.94
251.89
6.27
5.5
252.7
5.15
252.51
34
252.71
5.2
45
253.0

Ground
Inlet
Culvert
FL Inlet
Top of
Culvert
N. Edge
S. Edge
S. Pav

258.16

S. W. Cor. Box Culvert 69th & Imperial Ave.

±

B.M. Top of Pipe — 4.72 — 258.16 — 253.44 —

2+84⁸⁵ E. Chester

2+59⁸⁵ W. line Chester St

2+35

T.P. 12.85 270.81 0.20 257.96

1+80

1+50

1+00

0+80 = E Line 69th St to S.

0+55

258.16

Lt.

262.3 262.0 261.1 261.15 261.0 261.0 264.8 266.6 267.1 38

8.5 8.8 9.7 9.7 9.8 9.8 6.0 4.2 3.7 3.7

2.5 2.0 1.8 1.5 1.1 1.1 1.5 1.8 2.5 2.5

270.81

256.6 256.6 256.7 256.1 255.6

1.6 1.6 1.5 2.1 2.6 4.3

2.3 2.2 2.3 2.6 3.7 4.3

255.9 256.0 255.9 255.6 254.5 253.9

3.72 3.4 3.1 3.3 4.0 6.0

254.44 254.8 255.1 254.9 254.2 253.2 252.5

3.98 3.74 4.5 5.5 5.7

253.5 253.59 253.88 253.9 253.2 253.0 251.0 250.1

4.7 4.57 4.28 4.3 5.0 5.2 7.2 8.1

2.45 2.2 1.5 1.5 2.2 4.0 5.2

258.16

Lt

£

8+20

7+43⁸⁵ E. Line Pidgeon St.

7+68⁸⁵ £ Pidgeon St

7+43⁸⁵ W. Line Pidgeon St

7+10

6+80

6+46

T.P. 13.04 296.50 0.12 283.46

6+35

283.58

290.9
5.6
25
290.8
5.7
15
289.8
6.7
13
289.7
6.8
13
289.6
6.9
13
290.3
6.2
15
290.5
6.0
25

290.4
6.1
25
290.0
6.5
15
288.9
7.6
13
288.8
7.7
13
288.5
8.0
13
289.9
6.6
15
289.9
6.6
25

289.1
7.4
25
288.5
8.0
15
287.8
8.7
15
287.6
8.9
15
287.6
8.9
25

288.5
8.0
25
288.1
8.4
17
286.8
9.7
15
287.2
9.3
11
286.7
9.8
11
286.1
10.4
13
287.1
9.4
15
287.1
8.9
25
287.6
8.9
25

287.6
8.9
25
287.3
9.2
16
285.2
11.3
15
285.6
10.9
16
285.2
11.3
12
284.5
12.0
12
286.0
10.5
15
286.3
10.2
25

285.8
10.7
25
285.0
11.5
16
282.8
13.7
18
283.6
12.9
11
283.6
12.9
11
283.1
13.4
13
283.7
12.8
15
283.8
12.7
25

283.5
13.0
25
283.0
13.5
16
281.0
15.2
15
281.9
14.6
12
281.5
15.0
12
281.3
15.2
9
282.3
14.2
15
283.6
12.9
25

282.8
0.8
25
282.5
1.1
18
281.0
2.6
17
281.1
2.5
15
281.3
2.3
12
280.8
2.8
12
280.4
3.2
13
281.2
2.4
15
281.5
2.1
25

283.58

£

11+00

10+46⁶⁴

E-Line to Rd. 20' Rd.

10+26⁶⁴

W-Line 20' Rd.

10+00

T.P.

12.95

304.42

5.03

291.47

Set B.M. Fire Huddle

4.13

292.37

9+50

9+00

8+50

296.50

Lt.

♀

Rt.
41

294.4	293.	292.8	292.3	292.0	290.4
10.0	11.0	11.6	12.1	12.4	14.0
25	24	15	15	15	25

294.0	292.7	291.1	291.4	290.2	290.2
10.4	11.7	12.3	13.0	14.2	14.2
25	22	15	15	15	25

292.7	292.3	291.1	290.0	290.4	290.4
11.7	12.1	13.3	14.4	14.0	14.0
25	15	15	15	17	25

292.6	292.3	291.3	290.1	290.6	290.4
11.8	12.1	13.1	14.3	13.8	14.0
25	15	15	14	15	25

304.42

S.E. Ridgeon + Lisbon

292.5	292.1	291.9	290.9	290.9	290.7	291.0	290.5
4.0	4.4	4.6	5.6	5.6	5.8	5.5	6.0
25	15	12	11	11	15	16	25

292.4	292.0	292.0	290.9	290.4	291.3	291.2
4.1	4.5	4.5	5.6	5.4	5.2	5.3
25	15	12	11	11	15	25

291.9	292.0	292.0	290.7	290.4	290.8	290.9
4.6	4.5	4.5	5.8	6.1	5.7	5.1
25	15	13	12	11	15	25

296.50

♀

Set. BM. \pm Hub Sta 14+14+17 ok 4.85 308.78

14+00

13+50

13+00

T.P. — 9.35 — \times 313.63 — 0.14 — \times 304.28 —

12+50

12+00

11+60

11+50

304.42

LT

\pm

RT

42

\checkmark 309.5
4.1
25

\checkmark 309.4
4.2
15

\checkmark 308.0
5.6
11

\checkmark 307.9
5.7
15

\checkmark 306.4
7.2
15

\checkmark 305.8
7.8
25

\checkmark 309.0
4.6
25

\checkmark 309.0
4.6
15

\checkmark 308.3
5.3
10

\checkmark 307.9
5.7
15

\checkmark 306.7
6.9
15

\checkmark 305.4
8.2
25

\checkmark 307.8
5.8
25

\checkmark 307.4
6.2
15

\checkmark 307.2
6.4
15

\checkmark 306.5
7.1
9

\checkmark 305.6
8.0
11

\checkmark 305.4
8.2
16

\checkmark 304.3
9.3
25

\checkmark 304.7
8.9
25

\checkmark 304.5
9.1
15

\checkmark 304.0
9.6
7

\checkmark 304.3
9.3
10

\checkmark 303.2
10.4
15

\checkmark 302.9
10.7
15

\checkmark 301.6
12.0
25

\times 313.63

\checkmark 301.1
3.3
25

\checkmark 300.3
4.1
15

\checkmark 300.2
4.2
5

\checkmark 299.8
4.6
10

\checkmark 300.4
4.0
15

\checkmark 299.1
5.3
15

\checkmark 298.4
6.0
25

\checkmark 297.5
6.9
25

\checkmark 296.9
7.5
15

\checkmark 296.5
7.9
12

\checkmark 295.5
8.9
15

\checkmark 295.4
9.0
15

\checkmark 294.4
10.0
25

\checkmark 296.3
8.1
25

\checkmark 294.5
9.9
15

\checkmark 294.1
10.3
13

\checkmark 293.5
10.9
15

\checkmark 293.8
10.6
15

\checkmark 292.6
11.9
25

\checkmark 294.8
7.6
25

\checkmark 294.1
10.3
15

\checkmark 293.7
10.7
15

\checkmark 293.3
11.1
15

\checkmark 292.1
12.3
25

\checkmark 304.42

\pm

T.P. — 4.73 — 307.06^x — 11.30 — 302.33^x —

17+00

16+50

16+00

15+50

15+00

14+60

14+53

14+22

313.63

Lt

£

Rt.

43

£ Mon Sta 17+25¹⁰ E. Line Lot 58 Lisbon Township

✓ 303.4 ✓ 303.6 ✓ 303.5 ✓ 303.2 ✓ 302.6 ✓
10.2 10.0 10.1 10.4 11.0 11.7
25. 15. 15. 12. 15. 25.

✓ 304.9 ✓ 305.0 ✓ 304.7 ✓ 304.5 ✓ 303.9 ✓ 303.2 ✓
8.7 8.6 8.9 9.1 9.7 10.4
25. 15. 15. 10. 15. 25.

✓ 305.9 ✓ 306.1 ✓ 306.2 ✓ 305.9 ✓ 305.2 ✓ 304.7 ✓
7.7 7.5 7.4 7.7 8.4 8.9
25. 15. 15. 10. 15. 25.

✓ 307.2 ✓ 307.2 ✓ 307.1 ✓ 306.9 ✓ 305.8 ✓ 305.2 ✓
6.4 6.4 6.5 6.7 7.4 8.4
25. 15. 15. 8. 15. 25.

✓ 308.1 ✓ 308.0 ✓ 307.8 ✓ 307.4 ✓ 306.0 ✓ 305.2 ✓
5.5 5.6 5.8 6.2 7.6 8.4
25. 15. 15. 10. 15. 25.

✓ 309.2 ✓ 309.0 ✓ 308.5 ✓ 307.9 ✓ 306.4 ✓ 305.3 ✓
4.4 4.6 5.1 5.7 7.2 8.3
25. 15. 15. 10. 15. 25.

✓ 309.6 ✓ 309.2 ✓ 308.6 ✓ 307.9 ✓ 307.1 ✓
4.0 4.4 5.0 5.7 6.5
25. 15. 15. 15. 25.

✓ 309.9 ✓ 309.4 ✓ 308.9 ✓ 307.9 ✓ 307.0 ✓
3.7 4.2 4.7 5.7 6.6
25. 15. 15. 15. 25.

313.63

20+25

20+00

19+50

T.P.

0.90

295.32

12.64

294.42

19+00

18+50

18+00

17+75

17+50

307.06

Lt.

♀

Rt.

44

285.8

9.5
25

285.5

9.8
15

285.0

10.3

284.0

11.3
15

283.6

11.7
25

283.0

12.3
25

287.6

7.7
25

287.3

8.0
15

286.7

8.6

286.1

9.2
15

285.8

9.5
25

292.7

2.6
25

292.2

3.1
15

291.6

3.7

290.8

4.5
15

290.3

5.0
25

295.32

296.2

10.9
25

295.8

11.3
15

295.1

12.0

294.1

13.0
15

293.4

13.7
25

299.3

2.8
25

299.5

7.6
15

298.4

8.7

297.3

9.8
15

297.0

10.1
25

302.5

4.1
25

301.7

5.4
15

300.6

6.5

300.2

6.9
15

299.9

7.2
25

303.6

4.1
25

302.0

5.1
15

302.1

5.0

301.3

5.8
15

300.7

6.4
25

303.1

4.0
25

302.5

4.6
15

302.1

5.0

301.8

5.3
15

301.7

5.4
25

307.06

♀

23+25
 B.M. 23+23²⁶ & stub 3.25 304.97
 23+00
 22+50

T.P. 13.04 308.22 0.14 295.18

22+00
 21+50
 21+25

20+84²⁴ Culvert. $\angle 63^\circ 40'$ East to N.

20+55

295.32

4+ RT 45

304.9 ✓
 33
 25
 304.9 ✓
 3.3
 15
 305.0 ✓
 3.2
 304.8 ✓
 3.4
 15
 304.9 ✓
 3.3
 25
 303.2 ✓
 5.0
 25
 302.8 ✓
 5.4
 15
 302.6 ✓
 5.6
 302.5 ✓
 5.7
 15
 303.0 ✓
 5.2
 25
 297.2 ✓
 11.0
 25
 297.5 ✓
 10.7
 15
 297.4 ✓
 10.8
 297.6 ✓
 10.6
 25
 297.7 ✓
 10.5
 25

308.22

291.4 ✓
 3.9
 25
 285.4 ✓
 9.9
 35
 291.2 ✓
 4.1
 15
 285.8 ✓
 9.5
 25
 291.0 ✓
 4.3
 291.1 ✓
 4.2
 15
 285.9 ✓
 9.4
 15
 285.7 ✓
 9.6
 285.8 ✓
 9.5
 15
 285.8 ✓
 9.5
 25
 285.8 ✓
 9.5
 35
 281.6 ✓
 13.7
 50
 282.7 ✓
 12.6
 25
 283.4 ✓
 11.9
 15
 283.9 ✓
 11.4
 283.9 ✓
 11.4
 15
 283.7 ✓
 11.6
 25
 283.8 ✓
 11.5
 35

281.5 ✓
 13.8
 50
 281.1 ✓
 14.2
 25
 281.0 ✓
 14.3
 15
 280.3 ✓
 15.0
 279.3 ✓
 14.0
 15
 279.6 ✓
 15.7
 25
 279.0 ✓
 16.3
 50
 284.2 ✓
 11.1
 35
 283.4 ✓
 11.9
 25
 282.3 ✓
 13.0
 15
 280.8 ✓
 14.5
 280.3 ✓
 15.0
 15
 280.3 ✓
 15.0
 25
 280.3 ✓
 15.0
 35

295.32

4

26+50

26+00

T.P. 12.71 332.38 0.67 319.67

25+50

25+00

24+50

24+00

23+50

T.P. 12.89 320.34 2.77 307.45

308.22

Lt

E

Rt

46

323.3 ✓
9.1
25

322.7 ✓
9.7
15

321.6 ✓
10.8
25

320.5 ✓
11.9
15

319.9 ✓
12.5
25

321.8 ✓
10.6
25

321.4 ✓
11.6
15

320.6 ✓
12.0
25

319.3 ✓
13.1
15

318.6 ✓
13.8
25

332.38 ✓

319.7 ✓
0.6
25

319.1 ✓
1.2
15

318.3 ✓
2.0
25

317.3 ✓
3.0
15

316.8 ✓
3.5
25

317.4 ✓
2.9
25

317.1 ✓
3.2
15

316.5 ✓
3.8
25

315.1 ✓
5.2
15

314.3 ✓
6.0
25

315.2 ✓
5.1
25

314.8 ✓
5.5
15

313.9 ✓
6.4
25

313.2 ✓
7.1
15

312.5 ✓
7.8
25

311.6 ✓
8.7
25

311.4 ✓
8.9
15

311.0 ✓
9.3
25

310.7 ✓
9.6
15

310.4 ✓
9.9
25

307.3 ✓
13.6
25

307.6 ✓
12.7
15

307.8 ✓
12.5
25

307.1 ✓
13.2
15

307.1 ✓
13.2
25

320.34 ✓

308.22 ✓

E

30+00

BM 29+82 P.O.T. & Hub. 5.68 331.44

29+50

G.P. 6.84 337.12 2.10 330.28

29+00

28+50

28+00

27+50

27+00

332.38

LT.

£

RT

47

333.8 ✓
3.3
2.5

333.3 ✓
3.8
1.5

331.7 ✓
5.4

330.7 ✓
6.4
1.5

329.7 ✓
7.4
2.5

332.7 ✓
4.4
2.5

332.0 ✓
5.1
1.5

330.5 ✓
6.6

329.0 ✓
8.1
1.5

327.8 ✓
9.3
2.5

337.12 ✓

330.6 ✓
1.8
2.5

329.8 ✓
2.6
1.5

328.4 ✓
4.0

326.8 ✓
5.6
1.5

325.7 ✓
6.7
2.5

328.9 ✓
3.5
2.5

328.1 ✓
4.3
1.5

326.7 ✓
5.7

325.5 ✓
6.9
1.5

324.2 ✓
8.2
2.5

327.3 ✓
5.1
2.5

326.4 ✓
6.0
1.5

324.9 ✓
7.5

323.8 ✓
8.6
1.5

323.2 ✓
9.2
2.5

325.4 ✓
7.0
2.5

324.7 ✓
7.7
1.5

323.3 ✓
9.1

322.2 ✓
10.2
1.5

321.4 ✓
11.0
2.5

324.1 ✓
8.3
2.5

323.5 ✓
8.9
1.5

322.5 ✓
9.9

321.3 ✓
11.1
1.5

320.6 ✓
11.8
2.5

332.38 ✓

£

T.P. — 1.44 — 317.72 — 8.87 — 316.26 —

BM 33+73 ⁶⁰ B.C. Lt. \neq Hub 8.87

33+50

33+00

T.P. — 0.91 — 325.13 — 12.90 — 324.22 —

32+50

32+00

31+50

31+00

30+50

337.12

Lt.

\neq Hub. Sta 33+73 ⁶⁰

Rt.

48

317.8[✓] 317.5[✓] 316.3[✓] 315.2[✓] 314.9[✓]
7.3₂₅ 7.6₁₅ 8.8₂₅ 9.9₁₅ 10.2₂₅

320.0[✓] 319.1[✓] 317.9[✓] 316.7[✓] 316.1[✓]
5.1₂₅ 6.0₁₅ 7.2₁₅ 8.4₁₅ 9.0₂₅

323.8[✓] 322.9[✓] 322.0[✓] 320.5[✓] 319.3[✓]
1.3₂₅ 2.2₁₅ 3.1₁₅ 4.6₁₅ 5.8₂₅

325.13

328.0[✓] 326.8[✓] 325.2[✓] 323.4[✓] 322.1[✓]
9.1₂₅ 10.3₁₅ 11.9₁₅ 13.7₁₅ 15.0₂₅

330.4[✓] 329.7[✓] 328.4[✓] 326.5[✓] 325.1[✓]
6.7₂₅ 7.4₁₅ 8.7₁₅ 10.6₁₅ 12.0₂₅

332.8[✓] 331.8[✓] 330.7[✓] 328.8[✓] 327.5[✓]
4.3₂₅ 5.3₁₅ 6.4₁₅ 8.3₁₅ 9.6₂₅

334.3[✓] 333.1[✓] 331.7[✓] 330.5[✓] 329.4[✓]
2.8₂₅ 4.0₁₅ 5.4₁₅ 6.6₁₅ 7.7₂₅

334.5[✓] 333.7[✓] 332.1[✓] 330.5[✓] 329.7[✓]
2.6₂₅ 3.4₁₅ 5.0₁₅ 6.6₁₅ 7.4₂₅

337.12

\neq

38+00

37+50

37+00

36+50

36+00

35+50

35+00

34+50

34+00

313.7 ✓
4.0
2.5

313.3 ✓
4.4
1.5

313.0 ✓
4.7
1.0

311.6 ✓
6.1
5. Rd

311.7 ✓
6.0

312.0 ✓
5.7
5. Rd

312.8 ✓
4.9
1.2

312.8 ✓
4.9
1.5

311.8 ✓
5.9
2.5

315.1 ✓
2.6
2.5

314.5 ✓
3.2
1.5

314.0 ✓
3.7
1.0

312.8 ✓
4.9
N. Rd

312.9 ✓
4.8

312.9 ✓
4.8
1.3
5. Rd

313.9 ✓
3.4
1.5

314.2 ✓
3.5
2.5

314.8 ✓
2.9
2.5

314.7 ✓
3.0
1.5

315.0 ✓
2.7
1.0

313.0 ✓
4.7
N. Rd

313.0 ✓
4.7
1.5
5. Rd

313.0 ✓
3.7
1.7

313.5 ✓
4.2
2.5

314.2 ✓
3.5
2.5

313.7 ✓
4.0
1.5

313.5 ✓
4.2
1.5

312.0 ✓
5.7
N. Rd

312.0 ✓
5.7

311.8 ✓
5.9
1.5

311.8 ✓
5.9
1.7
5. Rd

312.7 ✓
5.0
1.8

312.6 ✓
5.1
2.5

313.1 ✓
4.6
2.5

312.4 ✓
5.3
1.5

312.1 ✓
5.6
1.0

310.9 ✓
6.4
5. Rd

310.8 ✓
7.2
1.5

310.5 ✓
7.2
1.7

310.5 ✓
6.3
1.8

311.4 ✓
6.3
1.8

311.2 ✓
6.5
2.5

312.8 ✓
4.9
2.5

312.1 ✓
5.6
1.5

311.3 ✓
6.4
1.0

310.2 ✓
7.5
N. Rd

310.1 ✓
7.6
1.5

309.9 ✓
7.8
2.2
N. Rd

310.9 ✓
6.0
2.5

313.0 ✓
4.7
2.5

312.1 ✓
5.6
1.5

311.7 ✓
6.0

310.9 ✓
6.8
1.5

310.0 ✓
7.7
N. Rd

309.7 ✓
8.0
2.5

309.6 ✓
8.1
3.3
5. Rd

313.6 ✓
4.1
2.5

313.4 ✓
4.3
1.5

312.7 ✓
5.0

311.7 ✓
6.0
1.5

311.3 ✓
6.4
2.5

310.0 ✓
7.7
N. Rd

316.0 ✓
1.7
2.5

315.4 ✓
2.3
1.5

314.7 ✓
3.0

314.0 ✓
3.7
1.5

313.0 ✓
4.3
2.5

317.72

317.72

E

42+00

41+50

41+00

40+50

40+00

T.P. — 11.06 — ~~320.15~~ — 8.63 — 309.09

39+50

39+00

38+50

317.72

Lt

316.9- 316.5- 315.1- 313.6- 313.6-
 3.3 3.7 5.1 6.6 6.6 2.0 7.0 6.6 6.7
 2.5 1.5 3 1.1 RA 1.5 1.5 2.0 2.5
 317.4- 316.9- 314.7- 313.6- 313.3- 312.9- 312.9- 313.2- 313.6- 313.5-
 2.8 3.3 5.5 6.6 6.9 7.3 7.3 7.0 7.5
 2.5 1.8 4 1.1 RA 1.5 1.5 2.0 2.5
 317.2 316.4 314.7 313.1 313.0 312.2 312.9
 3.0 2.8 5.5 7.1 7.2 8.0 7.3 8.4
 2.5 1.5 7 1.1 RA 1.5 1.5 2.5
 315.6- 314.6- 313.6- 312.2- 312.4- 312.0- 312.2- 311.2-
 4.6 5.6 6.6 8.0 7.8 8.2 8.0 9.0
 2.5 1.5 1 1.1 RA 1.5 2.0 2.5
 312.5- 312.4- 312.4- 311.7- 311.7- 311.5- 311.6- 310.9-
 7.7 7.8 7.8 8.5 8.5 8.7 8.6 8.3
 2.5 1.5 1.1 1.1 RA 1.5 1.5 2.5

RT- 50

320 15

40. RT. R.R. Hub. Sta 39+75 27 BC Lt.

312.6- 312.4- 312.4- 311.2- 311.5- 311.4- 311.3- 310.3- 309.9-
 5.1 5.3 5.3 6.5 6.2 6.3 6.4 7.4 7.8
 2.5 1.5 1.1 1.1 RA 1.0 1.5 2.0 2.5
 312.5- 312.1- 312.1- 311.2- 311.2- 311.1- 311.1- 309.9-
 5.2 5.6 5.6 6.5 6.5 6.6 6.2 7.8
 2.5 1.5 1.1 1.1 RA 1.5 1.5 2.5
 312.9- 312.5- 312.4- 311.4- 311.3- 311.3- 312.0- 310.8-
 4.8 5.2 5.3 6.3 6.4 6.4 5.7 6.9
 2.5 1.5 1.1 1.1 RA 1.5 1.5 2.5

317.72

46+00

T.P. — 10.97 — 328.35 — 2.77 — 317.38 —

45+50

45+00

44+50

44+00

43+50

43+00

42+55

320.15

L+

318.4

10.0
25

318.1

10.3
15

318.1

10.3
11

317.1

11.3
10
N.R.

317.3

11.1
N.R.

317.1

11.3
13
S.R.

317.5

10.9
15

317.5

10.9
12

316.7

11.7
25

R+ 51

324.35

318.2

1.0
25

318.0

2.2
15

318.0

2.2
12

317.2

3.0
10
N.R.

317.0

3.2
N.R.

316.9

3.3
15
S.R.

316.5

3.7
25

318.6

1.6
25

317.5

2.7
15

317.4

2.8
10

316.9

3.3
8
N.R.

316.8

3.4
15

316.4

3.8
25

318.3

1.9
25

317.6

2.6
15

317.2

3.0
10

316.0

4.2
N.R.

316.2

4.0
N.R.

315.7

4.5
15
S.R.

316.2

4.0
16

315.9

4.3
25

317.1

3.1
25

316.7

3.5
15

316.4

3.8
8

315.2

5.0
N.R.

315.4

4.8
N.R.

315.1

5.1
15
S.R.

315.9

4.3
20

314.9

5.3
25

316.5

3.7
25

315.8

4.4
15

315.5

4.7
7

314.7

5.5
6
N.R.

314.6

5.5
15
S.R.

315.1

5.1
17

315.1

5.1
20

314.2

6.0
25

316.0

4.2
25

315.9

4.3
15

315.1

5.1
5

314.2

6.0
3
N.R.

314.2

6.0
N.R.

314.2

6.0
15

314.2

6.0
17
20
25

314.7

5.5
18

314.2

6.0
25

316.0

4.2
25

315.8

4.4
15

315.4

4.8
2

314.0

6.2
N.R.

313.7

6.5
15

313.6

6.6
18
S.R.

314.2

6.0
20

313.8

6.0
15

320.15

±

50+50

50+00

49+50

49+00

48+50

48+00

47+50

47+00

46+50

328.35

324.7- 3.7 2.5
 323.7- 4.7 1.5
 322.3- 5.1 9
 322.0- 6.4 N.Rd
 322.3- 6.1
 321.8- 6.6 1.6
 321.8- 6.6 1.7
 321.9- 7.1 2.5
 323.3- 5.1 2.5
 322.8- 5.6 1.5
 322.8- 5.6 6.8
 321.6- 9 N.Rd
 321.7- 6.7
 321.8- 7.1 1.5
 321.4- 7.0 5.7rd
 320.1- 8.3 2.5
 322.8- 5.6 2.5
 322.4- 6.6 1.5
 322.0- 6.4 9
 320.7- 7.7 N.Rd
 320.6- 7.6 1.6
 320.9- 7.5 5.7rd
 319.7- 8.7 2.5
 322.6- 5.8 2.5
 321.7- 6.7 1.5
 321.3- 7.1 9
 320.2- 8.2 N.Rd
 320.2- 8.2
 320.1- 8.3 5.7rd
 320.1- 8.3 1.7
 320.0- 8.4 1.8
 320.0- 8.4 5.7rd
 320.1- 8.5 1.9
 319.4- 9.0 2.0
 319.0- 9.4 2.0
 318.7- 9.7 2.5
 321.6- 6.8 2.5
 321.0- 7.4 1.5
 320.8- 7.6 2.6
 319.8- 8.6 2.7rd
 319.7- 8.7 2.7
 319.6- 8.8 5.7rd
 319.6- 8.8 1.7
 318.3- 10.1 2.5
 320.6- 7.8 2.5
 319.9- 8.5 1.8
 320.1- 8.3 1.0
 318.7- 9.7 2.7rd
 319.2- 10.2
 318.8- 9.6 1.5
 318.8- 9.6 1.7
 317.9- 10.5 2.0
 317.6- 10.8 2.5
 320.0- 8.4 2.5
 319.2- 9.2 1.5
 319.0- 9.4 1.0
 318.1- 10.2 N.Rd
 318.8- 9.6 2.5
 318.3- 10.1 1.5
 318.5- 9.9 1.0
 317.6- 10.5 9
 317.5- 10.9 N.Rd
 317.4- 11.0 1.5
 317.9- 10.5 1.6
 317.8- 10.5 2.0
 317.4- 11.0 2.5

328.35

±

53+75 = 53+69.09 & Sta Corrected

M line 53+59 = 53+53.09 & Sta Corrected in
L 88°-12' from West to S. on E. Culvert

53+50 = 53+44.09 & Sta as corrected per Note Page 29

53+12.5 = 53+06.74 & Sta
& Sec. on Split of A

52+50

52+00

T.P. Men 10.55 — 33 509 — 3.81 — 324.54

51+50

51+00

324.35

4

4

At

53

322.8
12.3
35

321.8
13.3
30
WASH

323.4
16.7
25

322.8
12.3
15

323.1
12.0
30

321.6
13.5
21

319.7
15.4
19
WASH

320.3
14.8
18
FL. Culvert
11.1
7

323.3
11.8
7

324.3
10.8
16
N.Rd.

324.5
10.6
10

323.8
11.3
15
S.Rd.

323.3
11.8
16

322.3
12.2
30

323.1
12.0
30

321.6
14.6
30

320.5
14.6
30
FL. Culvert
outlet

323.5
11.6
30

322.8
12.3
15

328
12.0
8

324.2
10.9
5
N.Rd.

324.2
10.9
5

323.8
11.3
5
S.Rd.

322.8
13.3
30

320.1
15.0
35

324.8
10.3
30.58

324.0
11.1
15

323.4
11.7
15

323.1
12.0
15
N.Rd.

323.1
12.0
15

322.5
12.6
21
S.Rd.

321.6
13.5
30.58

325.7
9.4
30

325.0
10.1
21

323.6
11.5
14

323.5
11.6
15

323.2
11.9
6

323.2
11.9
6

322.6
12.5
15

322.5
12.6
17
S.Rd.

321.6
12.6
13.4
13.7
17
S.Rd.

321.7
13.4
21

321.4
13.7
30

335.09

M line Jamaica split of L at & Sta 53+12.5

325.3
3.1
25

323.6
4.8
15

323.4
5.0
15
N.Rd.

322.9
5.5
15

322.4
6.0
15
S.Rd.

322.6
5.8
17
S.Rd.

321.8
6.6
20

321.5
6.9
25

324.9
3.5
25

323.4
5.0
15

323.4
5.0
9

322.8
5.6
8
N.Rd.

322.7
5.7
9

322.4
6.0
15

322.7
5.7
14
S.Rd.

321.1
7.3
20

320.7
7.7
25

328.35

Lt

€

T.P. — 10.90 — 341.52 — 4.47 — 330.2

57 + 30.90 € Cor.
~~57 + 29.42~~
 57 + 36.21 = W. Line st. on N

57 + 00 = 56 + 94.09 € Cor.

56 + 50 = 56 + 44.09 € Cor.

56 + 00 = 55 + 94.09 € Cor.

55 + 50 = 55 + 44.09 € Cor.

55 + 00 = 54 + 94.09 € Cor.

54 + 50 = 54 + 44.09 € Cor.

54 + 00 = 53 + 94.09 € Cor.

335.09

330.7	331.0	328.1	330.1	331.4	331.4	331.0	332.7
4.4 30	4.1 25	7.0 15 Wash.	5.0 10	3.7 2.Rd	3.7	4.1 15 S.Rd	3.4 30
330.2	330.7	330.6	330.6	330.6	330.4	330.3	331.0
4.9 30	4.4 15	4.5 3 W.Rd	4.5	4.5	4.7 S.Rd	4.8 18	4.1 22
328.0	328.6	328.9	329.9	329.4	329.4	329.4	331.0
7.1 30	6.5 15	5.2 5 W.Rd	5.2	5.7 S.Rd	5.7	5.2 23	4.1 22
327.8	328.6	328.9	329.1	328.6	329.1	329.1	331.3
7.3 30	5.5 15	6.2 W.Rd	6.0	6.5 S.Rd	6.5	6.0 23	3.8 23
326.8	327.8	327.7	327.9	327.7	327.7	327.7	330.0
8.3 30	7.3 15	7.4 W.Rd	7.2	7.4	7.4	7.4 S.Rd	5.1 21
324.2	325.7	325.8	325.9	326.4	325.9	325.9	329.6
10.8 30	9.4 27	9.3 15	9.2 W.Rd	8.7	9.2 S.Rd	9.2	5.5 20, 22
323.9	324.5	324.6	325.2	324.8	324.8	324.8	325.6
11.2 30	10.6 15	10.5 W.Rd	9.9	10.3 S.Rd	10.3	10.3	9.5 30
323.3	323.7	323.6	324.1	324.5	324.1	324.1	324.0
11.8 50	13.4 45 Wash	11.5 40	11.6 30	11.5 15	11.0 W.Rd	10.6	11.0 S.Rd

335.09

€

T.P. — 13.15 — 354.09 — 0.58 — 340.94

60+50 = 60+44.09 & Cor.

60+00 = 59+94.09 & Cor.

59+50 = 59+44.09 & Cor.

59+00 = 58+94.09 & Cor.

58+50 = 58+44.09 & Cor.

N. line 57+89 ³¹ = 57+82.40 & Cor.
E. Line

St. to N

N. line 57+63 ⁰¹ = 57+57.15 & Cor.
E

St. on N. line

N. line 57+35 ⁴⁰ = 57+29.49 & Cor.
∠ 104° 30' West to south on & Ex. Culvert.

341.52

Lt

E

R+
55

Top Nail N. Line at Sta 40+50

341.0⁰
0.5
30

341.0⁰
0.5
15

339.8⁰
1.7
11

340.0⁰
1.5
27.1

340.1⁰
1.4
18

340.0⁰
1.5
18

340.0⁰
1.5
19
S.Rd.

338.9⁰
2.6
30

338.5⁰
3.0
30

338.5⁰
3.0
30

338.5⁰
3.0
7
N.Rd.

337.5⁰
4.0
18
N.Rd.

337.6⁰
3.9
15

337.9⁰
3.6
15

337.9⁰
3.6
19
S.Rd.

337.4⁰
4.1
30

337.0⁰
4.5
30

336.5⁰
5.0
15

335.7⁰
5.8
7
N.Rd.

335.9⁰
5.6
15

335.8⁰
5.7
15

335.8⁰
5.7
17
S.Rd.

335.3⁰
6.2
30

335.5⁰
6.0
30

334.8⁰
6.7
15

334.3⁰
7.2
18
N.Rd.

334.3⁰
7.2
22

334.5⁰
7.0
15

334.5⁰
7.0
17
S.Rd.

334.2⁰
7.3
30

333.8⁰
7.7
30

333.3⁰
8.2
18

333.3⁰
8.2
3
N.Rd.

333.2⁰
8.2
18

333.4⁰
8.1
15
S.Rd.

333.5⁰
8.0
30

332.1⁰
9.4
30

332.2⁰
9.3
15

332.5⁰
9.0
18
N.Rd.

332.5⁰
9.0
20

332.2⁰
9.3
15
S.Rd.

332.4⁰
9.1
30

332.1⁰
9.3
30

332.1⁰
9.4
15

332.0⁰
9.5
18
N.Rd.

332.0⁰
9.5
25

331.5⁰
10.0
15
S.Rd.

332.2⁰
9.3
30

329.2⁰
12.3
50
Wash

329.5⁰
12.0
12
FL. outlet

331.5⁰
10.0
11

331.5⁰
10.0
10

331.3⁰
10.2
17

329.27⁰
12.25
18
FL. outlet

330.2⁰
11.3
30
Wash

341.52

E

$$64+00 = 63+94.09 \text{ \& Corrected per Note Page 29}$$

$$63+50 = 63+44.09 \text{ \& Cor.}$$

$$63+25 = 63+19.09 \text{ \& Cor.}$$

$$63+00 = 62+94.09 \text{ \& Cor.}$$

$$62+50 = 62+44.09 \text{ \& Cor.}$$

$$T.P. \quad 12.76 \quad 366.77 \quad 0.08 \quad 354.01$$

$$62+00 = 61+94.09 \text{ \& Cor.}$$

$$61+50 = 61+44.09 \text{ \& Cor.}$$

$$61+00 = 60+94.09 \text{ \& Cor.}$$

$$354.09$$

L+

±

Rt
56

364.1 ✓
2.7 3.8 5.4 6.8 6.6 360.4 ✓
30 15 8 5 15 6.5 6.5 360.3 ✓
N.Rd 5. Rd. 30.

361.3 ✓
5.5 6.1 7.5 8.6 9.5 9.0 9.0 9.1 9.5 ✓
30 20 15 9 6 15 17 21 30
N.Rd

358.8 ✓
8.0 8.4 10.6 10.3 10.4 10.4 11.2 11.5 10.2 ✓
30 15 10 15 15 21 27 30
N.Rd

359.3 ✓
7.5 8.1 10.6 11.6 12.0 11.5 11.5 11.5 12.7 16.8 ✓
30 23 15 10 5 15 15 17 21 30
N.Rd

356.3 ✓
10.5 13.1 12.5 14.7 14.2 13.5 13.6 12.8 16.0 ✓
30 15 10 5 15 15 18 20 30
N.Rd

$$366.77$$

353.6 ✓
0.5 1.2 3.0 3.4 3.4 3.4 3.5 3.5 3.5 3.5 ✓
30 22 15 12 12 12 15 15 22 30
N.Rd

349.2 ✓
4.9 5.5 7.0 8.2 8.1 7.8 7.5 8.0 7.4 8.5 ✓
30 17 15 11 10 10 15 15 22 30
N.Rd

344.3 ✓
8.6 9.8 9.8 11.3 11.9 11.6 11.3 11.9 12.2 ✓
30 15 10 9 10 10 15 15 30
N.Rd

$$354.09$$

±

T.P. 12.92 389.22 1.96 376.30

67+00 = 66+94.09 @ Cor.

17 = 66+24.25 corrected to.
66+30 @ Δ 6'-54" Lt. see on split of L

66+00 = 65+94.09 @ Cor.

65+80 1/2 End. Inlet } 12" Cor. Iron Culvert
65+77 1/2 End. Outlet }
= 65+71.09 @ Cor.

65+50 = 65+44.09 @ Cor.

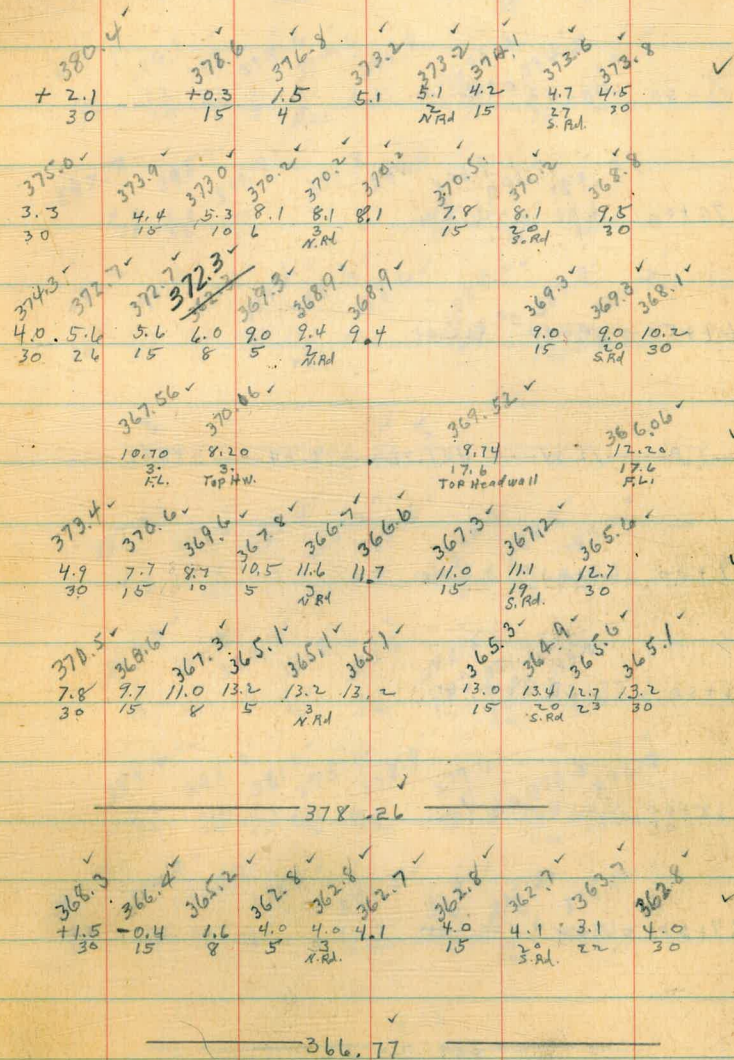
65+00 = 64+94.09 @ Cor.

T.P. 12.92 378.26 1.43 365.34

64+50 = 64+44.09 @ Cor.

366.77

25' Lt of sta 66+45



T.P. — 12.70 — 414.41 — 0.01 — 401.71

71+00 = 70+94.09 @ Cor

70+50 = 70+44.09 @ Cor

70+00 = 69+94.09 @ Cor

69+50 = 69+44.09 @ Cor

T.P. — 12.84 — 401.72 — 0.34 — 388.88

69+00 = 68+94.09 @ Cor

68+50 = 68+44.09 @ Cor

68+00 = 67+94.09 @ Cor

67+50 = 67+44.09 @ Cor

389.22

Lt.

±

Rt.

58

403.6 ✓
 402.2 ✓
 401.7 ✓
 397.5 ✓
 397.4 ✓
 397.8 ✓
 397.2 ✓
 396.4 ✓

71.9
 70.5
 9.0
 4.2
 4.3
 3.9
 4.5
 5.3

30
 15
 10
 N.R.
 15
 20
 30

400.6 ✓
 399.1 ✓
 397.7 ✓
 394.6 ✓
 394.6 ✓
 394.9 ✓
 395.3 ✓
 394.5 ✓
 393.5 ✓

11
 26
 4.5
 71
 7.1
 6.1
 6.4
 7.2
 8.2

30
 20
 15
 8
 N.R.
 15
 20
 30

397.7 ✓
 395.7 ✓
 391.7 ✓
 391.8 ✓
 392.0 ✓
 391.9 ✓
 391.0 ✓
 389.7 ✓

4.0
 6.0
 10.0
 9.9
 9.7
 9.8
 10.7
 12.0

30
 23
 15
 N.R.
 15
 20
 30

393.2 ✓
 390.4 ✓
 390.1 ✓
 389.4 ✓
 388.6 ✓
 388.6 ✓
 388.2 ✓
 387.9 ✓
 386.4 ✓

8.5
 11.3
 4.6
 12.3
 13.1
 13.1
 13.5
 13.8
 15.0

30
 23
 15
 7
 N.R.
 15
 20
 30

401.72

387.9 ✓
 387.2 ✓
 386.4 ✓
 385.2 ✓
 385.4 ✓
 385.2 ✓
 384.8 ✓
 383.2 ✓

1.3
 2.0
 2.4
 4.0
 2.8
 4.0
 4.4
 6.0

30
 15
 6
 N.R.
 15
 20
 30

386.0 ✓
 385.4 ✓
 382.2 ✓
 383.5 ✓
 382.5 ✓
 382.5 ✓
 381.9 ✓
 380.2 ✓

8.2
 3.8
 7.0
 5.4
 6.7
 6.7
 7.3
 9.0

30
 24
 15
 12
 N.R.
 15
 20
 30

384.6 ✓
 383.2 ✓
 381.0 ✓
 378.4 ✓
 378.9 ✓
 379.6 ✓
 378.8 ✓
 376.7 ✓

4.6
 6.0
 8.2
 10.8
 10.3
 9.6
 10.4
 12.5

30
 20
 15
 12
 N.R.
 15
 20
 30

383.4 ✓
 382.0 ✓
 380.8 ✓
 376.8 ✓
 375.5 ✓
 377.1 ✓
 376.5 ✓
 375.5 ✓

5.8
 7.2
 8.4
 12.4
 13.7
 12.1
 12.7
 13.7

30
 15
 11
 4
 N.R.
 18
 20
 30

389.22

74+50 = 74 + 44.09 @ Cor

74+00 = 73 + 94.09 @ Cor

73+50 = 73 + 44.09 @ Cor

73+31 = 73 + 25.09 @ Cor
 3.14 = 1/4 Lt EX 12" Cor. Iron Culvert.

73+20 = 16.1 Rt = Outlet " " " "
 = 73 + 14.59 @ Cor

T, R — 12.55 — 423.88 — 3.08 — 411.33 —

72+94 = 72 + 88.50 @ Cor
 Δ 10' 30" Lt See on Split.

72+50 = 72 + 44.09 @ Cor

72+00 = 71 + 94.09 @ Cor

71+50 = 71 + 44.09 @ Cor

414.41

Lt

±

75
4.4 3.4

Rt

59

420.6 ✓
 3.3 30
 419.7 ✓
 4.2 15
 419.1 ✓
 4.1 9
 416.9 ✓
 2.0 N.Rd
 417.1 ✓
 6.8

417.2 ✓
 6.7 15
 417.1 ✓
 6.8 17 S.Rd
 416.1 ✓
 7.1 30

419.3 ✓
 4.6 30
 416.9 ✓
 7.0 15
 416.4 ✓
 7.5 6
 414.7 ✓
 9.2
 414.1 ✓
 9.8 N.Rd

414.2 ✓
 9.7 15
 414.2 ✓
 9.7 17 S.Rd
 412.1 ✓
 11.8 30

416.5 ✓
 7.4 30
 414.8 ✓
 9.1 15
 414.1 ✓
 9.8 6
 411.6 ✓
 12.3 3
 410.7 ✓
 13.2 N.Rd

411.3 ✓
 12.6 15
 410.7 ✓
 13.2 17 S.Rd
 409.9 ✓
 14.0 30

409.1 ✓
~~408.1~~
 7.8 3
 F.L.

411.8 ✓
 12.1 3
 Top Headwall

411.23 ✓
 12.65 16
 Top Headwall

408.23 ✓
 15.65 16
 F.L.

423.88

413.8 ✓
 0.6 30
 412.0 ✓
 2.4 12
 411.1 ✓
 3.3 9
 408.4 ✓
 6.0 N.Rd
 407.9 ✓
 6.5
 408.1 ✓
 6.3 15
 408.1 ✓
 6.3 17 S.Rd
 406.6 ✓
 7.8 30

412.9 ✓
 1.5 30
 410.7 ✓
 3.7 15
 409.9 ✓
 4.5 8
 405.3 ✓
 9.1 2
 405.3 ✓
 9.1 N.Rd
 406.1 ✓
 8.3 15
 405.6 ✓
 8.8 17 S.Rd
 404.5 ✓
 9.9 30

411.8 ✓
 2.6 30
 409.9 ✓
 4.5 15
 408.4 ✓
 6.0 8
 402.7 ✓
 11.7 N.Rd
 403.4 ✓
 11.0 16
 402.7 ✓
 11.7 17 S.Rd
 402.4 ✓
 12.0 30

409.0 ✓
 5.4 30
 406.2 ✓
 8.2 15
 405.1 ✓
 9.3 8
 399.9 ✓
 14.5 N.Rd
 400.4 ✓
 14.0 15
 400.6 ✓
 13.8 24 S.Rd
 399.6 ✓
 14.8 30

414.41

±

77+70 = 77+64.09 @ Cor.

77+50 = 77+44.09 @ Cor.

77+20 = 77+14.09 @ Cor.

77+00 = 76+94.09 @ Cor.

76+50 = 76+44.09 @ Cor.

76+00 = 75+94.09 @ Cor.

75+50 = 75+44.09 @ Cor.

T.P. — 11.00 — 433.31 — 1.57 — 422.31

75+00 = 74+94.09 @ Cor.

423.88

430.4 ✓
2.9
30
430.3 ✓
3.0
15
429.1 ✓
4.2
7
428.3 ✓
5.0
15
428.5 ✓
5.0
15
428.2 ✓
5.1
15
427.4 ✓
5.1
15
427.2 ✓
5.1
15
427.4 ✓
5.9
30

429.0 ✓
4.3
30
428.3 ✓
5.0
15
427.7 ✓
5.6
15
428.2 ✓
5.1
15
427.8 ✓
5.5
15
427.8 ✓
5.5
15
427.3 ✓
6.0
30

427.1 ✓
6.2
30
427.5 ✓
5.8
15
427.0 ✓
6.3
15
427.5 ✓
5.8
15
427.5 ✓
5.8
15
427.5 ✓
5.8
15
429.6 ✓
3.7
15
430.5 ✓
2.8
30

428.1 ✓
5.2
30
426.8 ✓
6.5
15
426.6 ✓
6.7
15
427.1 ✓
6.2
15
427.1 ✓
6.2
15
426.9 ✓
6.4
15
427.8 ✓
5.5
15
427.6 ✓
5.7
30

426.6 ✓
6.7
30
426.3 ✓
7.6
15
426.0 ✓
7.3
15
424.8 ✓
8.5
15
425.5 ✓
7.8
15
425.5 ✓
7.8
15
425.0 ✓
8.3
15
426.3 ✓
7.0
15
426.3 ✓
7.0
15

425.6 ✓
7.7
30
425.4 ✓
7.5
15
426.2 ✓
7.1
15
423.6 ✓
8.7
15
423.6 ✓
8.7
15
423.7 ✓
9.4
15
423.8 ✓
9.5
15
423.3 ✓
10.0
30
424.7 ✓
8.6
15
424.7 ✓
8.6
15

423.1 ✓
10.2
30
423.1 ✓
10.2
15
423.1 ✓
10.2
8
421.6 ✓
11.7
7
421.6 ✓
11.7
15
422.0 ✓
11.3
15
422.0 ✓
11.3
15
421.9 ✓
11.4
15
422.3 ✓
11.0
30

433.31

423.4 ✓
0.5
30
422.1 ✓
1.8
15
421.2 ✓
2.7
8
419.6 ✓
4.5
15
419.6 ✓
4.3
15
419.9 ✓
4.0
15
419.5 ✓
4.4
15
420.9 ✓
3.0
15
420.8 ✓
3.1
30

423.88

$$78+74 = 78+68.09 \text{ \¢ Cor.}$$

$$78+66^k = 78+60.69 \text{ \¢ Cor}$$

$$78+48 = 78+42.09 \text{ \¢ Cor}$$

$$78+42^s = 78+36.89 \text{ \¢ Cor}$$

$$78+30 = 78+24.09 \text{ \¢ Cor}$$

$$78+24^s = 78+18.59 \text{ \¢ Cor}$$

$$78+06 = 78+00.09 \text{ \¢ Cor}$$

$$\text{--- T.P. \¢ C.T.L.P. --- 6.60 --- 435.63 --- 4.28 --- 429.03 ---}$$

$$78+00 = 77+94.09 \text{ \¢ Cor.}$$

433.31

L+

E

R+
61

428.8 ✓
6.4
30

420.3 ✓
5.3
15

430.3 ✓
5.3
10

429.3 ✓
6.3
10
N.R.A.

429.7 ✓
5.9

430.0 ✓
5.6
15
S.R.A.

430.0 ✓
5.6
30

428.66 ✓
6.47
30
E. Edge Pav.

429.1 ✓
6.5
15

429.6 ✓
6.0

429.7 ✓
5.9
15
S.R.A.

430.0 ✓
5.6
30

428.83 ✓
6.80
E. Line Pav.

429.0 ✓
6.6
15

430.5 ✓
5.1
17

430.4 ✓
5.2
30

428.99 ✓
6.64
30
W. Edge Pav.

429.3 ✓
6.3
30

429.6 ✓
6.0
15

429.03 ✓
6.60
W. Edge Pav.

429.03 ✓
6.60
30
E. Edge Pav.

429.20 ✓
6.43
30
W. Edge Pav.

435.63

Ctr. Jamaica & Narragansett Sta 78+29.25

428.8 ✓
4.5
30

429.5 ✓
3.8
15

429.0 ✓
4.3
15
N.R.A.

429.1 ✓
4.2

429.0 ✓
4.3
15

429.2 ✓
4.1
30

433.31

E

$$81+50 = 81+44.09 \text{ \¢ Cor.}$$

$$81+10 = 81+04.09 \text{ \¢ Cor.}$$

$$80+90 = 80+84.09 \text{ \¢ Cor.}$$

$$80+60 = 80+54.09 \text{ \¢ Cor.}$$

$$80+35 = 80+29.09 \text{ \¢ Cor.}$$

$$80+00 = 79+94.09 \text{ \¢ Cor.}$$

$$79+50 = 79+44.09 \text{ \¢ Cor.}$$

$$79+00 = 78+94.09 \text{ \¢ Cor.}$$

$$78+78 = 78+72.09 \text{ \¢ Cor.}$$

335.63

44

44

At
62

426.3[✓]
8.3
30

427.4[✓]
8.2
15

427.0[✓]
8.6
N.R.

427.2[✓]
8.4
N.R.

427.0[✓]
8.4
5.R.

428.0[✓]
7.6
15

428.0[✓]
7.6
30

427.3[✓]
8.3
30

427.2[✓]
8.4
15

427.6[✓]
8.0
N.R.

427.7[✓]
7.9
N.R.

427.6[✓]
8.0
5.R.

428.2[✓]
7.4
15

427.6[✓]
8.0
20

427.6[✓]
8.0
30

429.5[✓]
6.1
30

429.1[✓]
6.5
15

427.9[✓]
7.7
N.R.

428.0[✓]
7.6
N.R.

428.0[✓]
7.6
5.R.

428.6[✓]
7.0
16

428.5[✓]
7.1
30

428.6[✓]
7.0
30

428.6[✓]
7.0
15

429.0[✓]
6.6
6

428.5[✓]
7.1
5

428.5[✓]
7.1
N.R.

428.5[✓]
7.1
2.5

429.2[✓]
6.4
16

428.6[✓]
7.0
30

430.0[✓]
5.6
30

430.9[✓]
4.7
15

430.6[✓]
5.0
7

429.3[✓]
6.3
N.R.

429.0[✓]
6.6
N.R.

428.9[✓]
6.8
5.R.

429.8[✓]
5.8
16

430.0[✓]
5.6
30

430.5[✓]
5.1
30

430.4[✓]
5.2
18

430.2[✓]
5.4
6

429.5[✓]
6.1
N.R.

429.7[✓]
5.9
N.R.

429.8[✓]
5.8
15

429.8[✓]
5.7
5.R.

430.5[✓]
5.1
17

430.5[✓]
5.1
30

431.3[✓]
4.3
30

431.1[✓]
4.5
15

431.2[✓]
4.4
7

430.3[✓]
5.3
N.R.

430.3[✓]
5.3
5.3

430.3[✓]
5.3
15

430.3[✓]
5.3
5.R.

431.1[✓]
4.5
18

431.0[✓]
4.6
30

431.8[✓]
3.8
30

430.8[✓]
4.8
15

430.8[✓]
4.8
8

429.9[✓]
5.7
N.R.

430.1[✓]
5.5
N.R.

430.2[✓]
5.4
15

431.1[✓]
4.5
17

431.4[✓]
4.2
30

431.2[✓]
4.4
30

430.4[✓]
5.2
15

430.4[✓]
5.2
9

429.6[✓]
6.0
N.R.

429.8[✓]
5.8
N.R.

429.8[✓]
5.8
5.R.

430.5[✓]
5.1
17

430.1[✓]
5.5
30

335.63

44

County B.M. Iron Pin = 83 + 04 21
82 + 40 35 N of N Line 8.57

✓
426.76
County Elev.
432.90
426.76
Diff 6.14 =

City Elev. City Datum.
County Elev. U.S.G.S. Datum.
Diff 6.12

83 + 10 22 = 83 + 04 21 + Cor.

82 + 50 = 82 + 44.09 + Cor.

82 + 00 = 81 + 94.09 + Cor.

435.63

425.5 ✓
10.1
20

425.6 ✓
10.0
15

425.6 ✓
10.0

426.2 ✓
9.4
15
N. Ad.

426.6 ✓
9.0
15

426.12 ✓
8.5
30
Moh
S. Ad.

426.0 ✓
9.6
30

426.1 ✓
9.5
23

427.0 ✓
8.1
15

428.0 ✓
7.6
5

426.7 ✓
8.9
N. Ad.

426.8 ✓
8.8

426.4 ✓
9.2
15

426.4 ✓
9.2
17
S. Ad.

427.2 ✓
8.4
19

427.1 ✓
8.5
30

425.6 ✓
10.0
30

426.3 ✓
9.3
15

426.5 ✓
9.1
N. Ad.

426.9 ✓
8.7

426.7 ✓
8.9
14
S. Ad.

427.4 ✓
8.5
15

426.2 ✓
9.4
19

427.2 ✓
8.4
30

435.63

81

Xsec alley 20' wide.

Blk 53 La Jolla Park

S.W. B.P.	11.73	105.80	94.07	Prospect Girard
T.P.	7.82	112.20	142	104.38
S.W.B.P.		6.47	105.73	Herschel Wall

0+14 N cb Wall St.

W Pav	5.79	106.43
C "	5.75	106.45
E "	5.64	106.56

0+00 = Nly Wall St.

E TOP cb 4 4" cb	4.95	107.25
E gut Pav.	5.19	107.01
C " "	5.52	106.68
W " "	5.17	107.03
W TOP cb	5.13	107.07

0+15

W	5.5	106.7
C	5.4	106.8
E	5.3	106.9
E TOP ^{4"} cb	4.94	107.26

Moore
1-12-39.

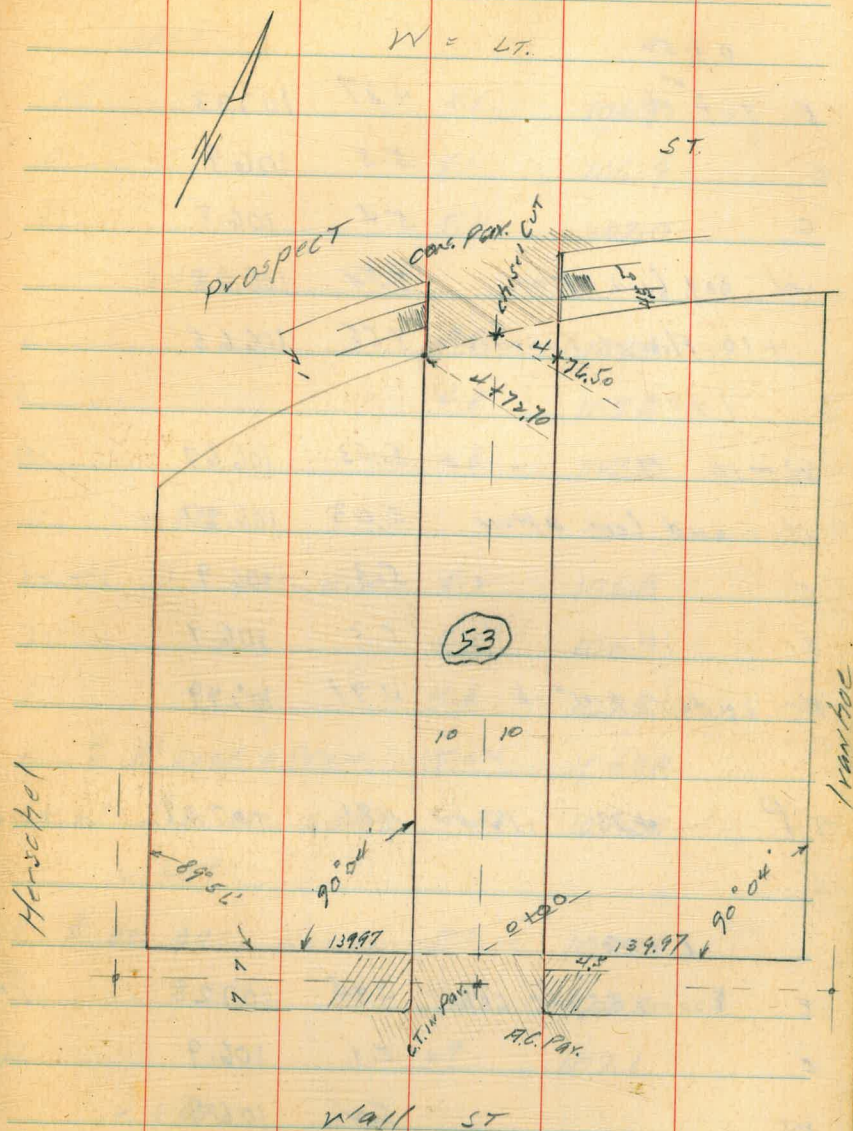
Indexed
C.S.K.

NOTE!

E = Rt.

W = Lt.

64



112.20

0+50

E Top ^W cb	4.87	107.33
E	5.3	106.9
C	5.4	106.8
W beg. Cem. apron	5.58	106.62
+10 Floor El. Furnace Co	5.55	106.65

1+00

W-10 Fl. " " "	5.53	106.67
W end Cem. apron	5.43	106.57
C	5.3	106.9
E	5.3	106.9
E end top 4" cb	4.71	107.49

T.P. 4.63 112.02 4.81 107.39

1+23

E Esowide gar. cem	4.74	107.28
C	5.1	106.9
W	5.2	106.8

112.02

65

1+00

W	5.1	106.9
C	5.1	106.9
E	5.0	107.0

2+00

E	4.9	107.1
C	4.8	107.2
W	4.8	107.2

2+37

W-8 Sin. gar. dirt	5.2	106.8
W	5.1	106.9
C	4.8	107.2
E 2 8' cem apron	5.02	106.98
+25 Sin. gar. cem.	4.80	107.22

2+59

E 2 do. gar dirt	5.0	107.0
C	4.8	107.2
W	4.9	107.1

2+67

W-3.5 Sin. gar dirt 5.2 106.8

11202

2+77

W - 3.5 Six gar. cent.	5.05	106.97
W	5.1	106.9
C	4.9	107.1
E	4.8	107.2

2+90

E	5.1	106.9
C	5.0	107.0
W	5.1	106.9
+ 3.5 ^g do. gar. dirt	5.2	106.8

3+02

W - 7.5 S edge do. gar cent.	5.10	107.02
W " " apron "	5.12	106.90
C	5.0	107.0
E	5.2	106.8

3+24

E	5.2	106.8
C	5.1	106.9
W N edge apron cent	5.11	106.91
W + 7.5 N edge do. gar. "	5.07	106.95

11202

66

3+50

W	5.4	106.8
C	5.3	106.7
E	5.1	106.9

3+63

E - 6 bot. step Resid.	4.58	107.44
E	5.4	106.6
C	5.4	106.6
W	5.4	106.6
+ 4 bot. step "	4.75	107.27

4+00

W	5.3	106.7
C	5.8	106.2
E	5.8	106.2

T.P 4.33 110.13 6.22 105.80

4+30

E	4.4	105.5
C	4.5	105.6
W	4.0	107.1

110.13

4+60

W	4.6	105.5
+3	5.4	104.9
C	5.7	104.4
+5	5.7	104.4
E	5.4	104.7

4+69

E	5.8	104.3
+5	6.5	103.6
C	6.2	103.9
+7	6.1	104.0
W	4.9	105.2

4+72.7 at 90° with alley

W Top cb + Pav	6.81	103.32
C	6.5	103.6
+5	6.7	103.4
E	5.9	104.2

4+76.5 on E alley. Sec. on Sly Prospect
+ SL Prospect

E cb + Pav	6.46	103.67
C	6.87	103.26

110.13

67

W cb + Pav	6.81	103.32
4+86.5	Sec. parallel with Prospect	
W cb + Pav	7.03	103.10
C Pav	7.49	102.64
E cb + Pav	6.54	103.59
S of line of Prospect		
E Pav 90°	7.54	102.59
C " "	7.89	102.24
W " "	7.93	102.20
T.P. 049	9.07	101.06
check to starting B.M.	7.48	94.07
		94.07

1-25-39
Miller
Walker
Bliss

Drainage Levels Univ + Central.

Plate E&B, 5663-L

B.M.B.M. 5.13 357.06 351.93 N.W. Univ + Central

33.5' S. of N. cl.

S. Rail S. Track. 5.08 351.91
F.L. Culvert at S. Rail S. Track 3 50.72 (E. 188 page 8)

New Box Constructed from S. Rail S. Track to S. Line Sept. '38
18.5' S. of N. cl.

N. Rail N. Track 4.93 352.13

N. cl. Line Univ

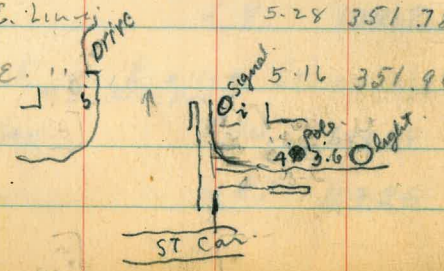
E. cl. Central on pav. 5.14 351.92
9' E. of E. cl. 5.13 351.93 cl + pav cl at W
14' " " " = E. Line 5.06 352.00 End 2' cl. inlet Slot in Face of curb
" " " " " " 5.95 351.11 pay Fl. inlet
E+02 5.70 351.36 "
E+10 5.48 351.58 "
E+25 5.38 351.68 "
E+25 5.03 352.03 Top. cl.

out of place → 5' S. of N. cl.

E. cl. Central 5.13 351.93
9' E. of E. cl. 5.24 351.78
E line " 5.32 351.74

10' E. of E. Line 5.28 351.78

25' E of E. " 5.16 351.90



357.06

Indexed
C.S.K.

68

0.1 S. of N. Line Univ.
(Headwall Catch Basin).
(E. cl. + Pav. to S. & W. } 5.11 351.95
+ 2.2' (W wing wall S. End }
W = pav to S.W. } 6.15 350.91
N. Line Univ. = 0+00
E. cl. 5.11 351.95
gutter = F.L. Culvert. 6.15 350.91
+ 2.2' W " " 6.15 350.91
+ 2.2' W wing wall S. End 1.12 355.94
+ 6' W pavement 5.18 351.88
0+05 N

gutter 5.97 351.09
+ 2.2' (pavement wing wall N End 5.99 351.07
+ 6' W pavement. 5.34 351.68
0+15 N

gutter 5.77 351.29
+ 6' W = pav. 5.33 351.73
0+35

gutter 5.51 351.55
0+50 N

cl 4.70 352.36

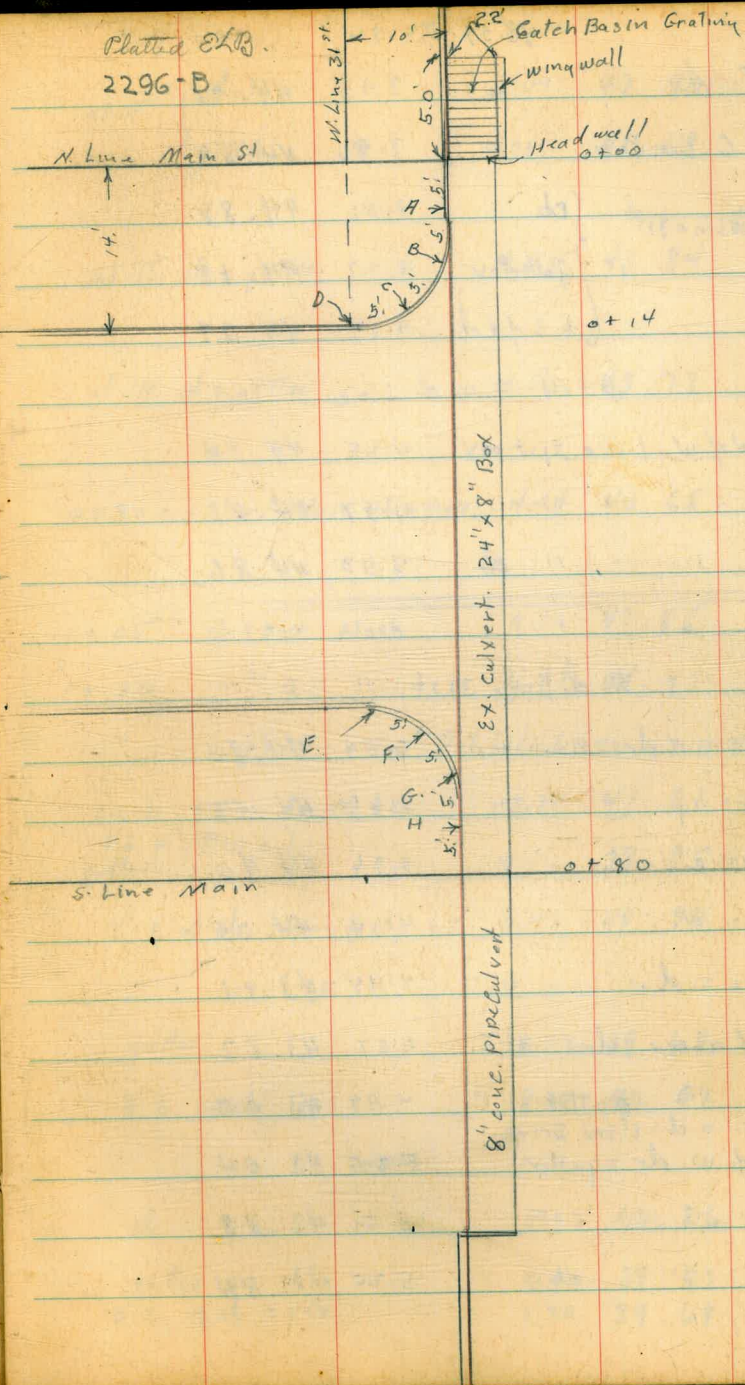
gutter 5.41 351.65

Drainage at 31st + Main ^{Indexed}
 B.M. B.P. 3.34 48.39 45.05 ^{C.S.K.} N.W. 31

0+00-50' N		
el.	2.39	46.00
gutter	2.95	45.44
0+00-25' N		
gutter	3.44	44.95
6' East	3.15	45.24
0+00-05' = N. End. Catch Basin		
el.	3.35	45.04
gutter pav.	4.08	44.31
+ 2.2' E" + N. End. Headwall	4.03	44.36
+ 6' E"	3.54	44.85
0+00 = S. End. C. B.		
el. + pav. + Headwall	3.27	45.12
gutter = F.L. Culvert.	4.60	43.79
+ 2.2' E" "	4.60	43.79
+ 2.3' S. End. Headwall	3.30	44.09
+ 6' E = pav.	3.36	44.03
at A. { el.	3.25	45.14
{ Gutter pav	3.34	45.05
at B { el.	3.35	45.04
{ Gutter Pav	3.55	44.84

Platted E.L.B.
 2296-B

69



		48.39	
at. C	dr	3.48	44.91
	Gutter Pav	3.86	44.53
at. D. W. Line 31st	dr	3.51	44.88
	Gutter Pav	4.27	44.12
	b. s. of N. dr.	4.12	44.27
0+14 = N. dr. line			
30' W of W. Line 31st pav.		4.25	44.14
50' " " " " " "		4.37	44.02
50' " " " " " "	cl.	3.53	44.86

W. dr. line 31st.

0+14 S = N. dr. Main pav		3.59	44.80
0+27 S = " "	"	3.81	44.58
0+40 S = " "	"	3.96	44.43
0+53 S = " "	"	4.34	44.05
0+66 = S. dr.	"	4.48	43.91
10' W of above cl	at E.	4.57	43.82
10' " " " "	gutter at E.	4.99	43.40
15' W " " "	W. dr = E. End Drive.		
35' W of W. dr = gutter		5.35	43.04
60' " " " " = " "		5.51	42.88
" " " " " "	cl.	5.25	42.84

		48.39		70
at. F.	dr.	4.49	43.90	
	gutter	4.71	43.68	
at. G. cl + gutter		4.55	43.84	
at. H. cl + gutter		4.62	43.77	
0+80 = S. Line Main cl + pav.				4.74 43.65
1+05	cl + pav flush	5.54	42.85	
1+30	" " " "	6.47	41.92	
1+57 = S. End. Out let 6" cone. pipe culvert				
curb + pav. to N. + E.		7.38	41.01	
F.L. 6" Pipe } gutter to S. }		8.54	39.85	
3' E. of cl. = pav to N, S + E.		7.43	40.96	
1+70				
gutter		8.72	39.67	
3' E. of cl. = pav		8.30	40.09	
1+80				
cl.		8.13	40.26	
gutter		8.87	39.52	
3' E. of cl. = pav		8.70	39.69	

75.93

0+16 = S. End. Iron Cleanout Cover

14' W: db Top 3.93 72.00

0+20

14' W of W. db = W. Line 4.69 71.24

0+33'S = N Rail N Track

W. db Line 4.41 71.52

0+47 S. S. Rail S. Track

W. db. Line 4.36 71.57

0+50 = ctr 26" x 26" Iron Cleanout cover

Top 4.45 71.48

F.L. 6.00 69.93

0+62 = N. End. Iron Cleanout cover

Top 4.75 71.18

0+66 = S. db. Line

W. db. 4.86 71.07

14' W = W Line db 5.06 70.87

11' " " gutter 5.50 70.43

44' W " 5.93 70.00

44' W db 5.47 70.46

S. Line.
0+80 = N End Catch Basin

72

db 5.17 70.76

gutter = F.L. Culvert 6.40 69.53

W. db line = W End. Head wall 5.28 70.65

W. db 2.4 = E. " " 5.24 70.69

4" + 6.0" 5.16 70.77

0+85 = S. End. C. B.

W. db + 6.0 5.64 70.25

" " + 2.4 = S. E. Cor C. B. 6.37 69.56

gutter SW " " 6.41 69.52

" par south of C. B. 6.33 69.60

db 5.28 70.65

0+95 N. End. Driveway

gutter 6.44 69.49

6.0' E. 5.93 69.98

1+15

W gutter 6.80 69.13

1+28 S. End. Driveway.
W " 7.02 68.911+30
W " 6.94 68.95

1+53

W. gutter 7.36 68.57

Top. db. 6.90 69.03

indexed
cross.

Levels on Paving on

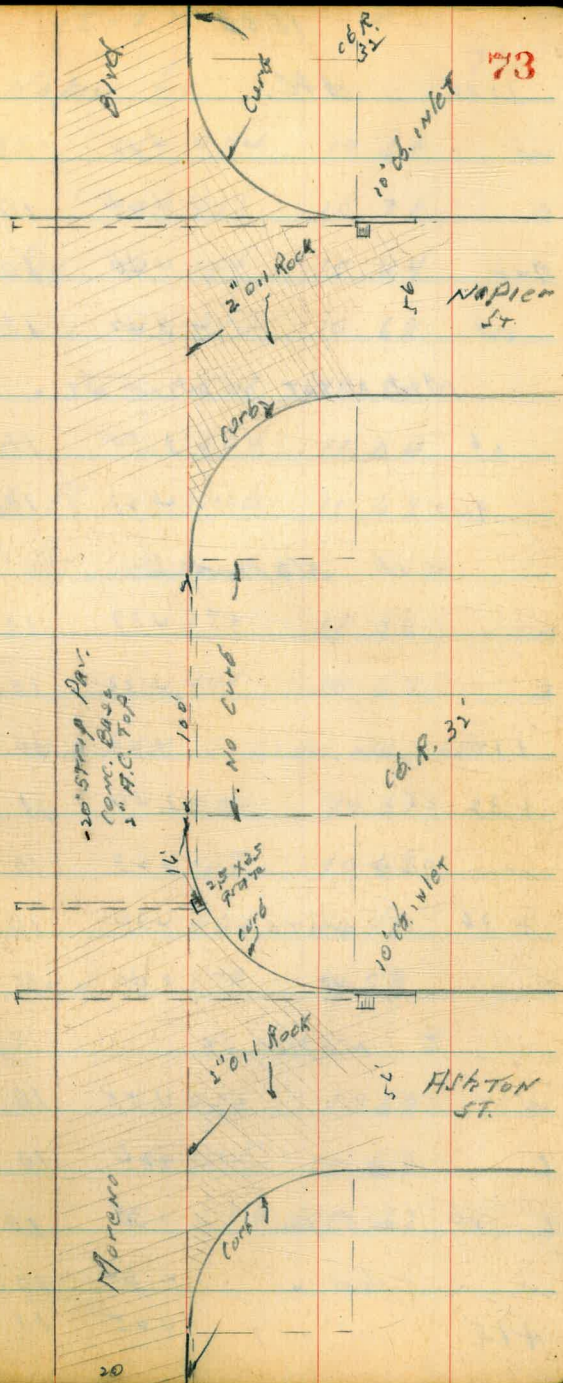
Moreno Blvd.

Sw Cor B.M. Mark	2.70	14.03	11.33	Jellett Moreno Blvd.
T.P.	5.52	14.33	5.22	8.81
T.P.	5.17	16.27	3.23	11.10
T.P.	3.87	15.08	5.06	11.21

00 = SL alley Ret. N of Napier

W Pav.	4.04	11.04
E " = 9UT	4.12	10.96
E CB	3.19	11.89
0+33.3		
9UT	4.22	10.85
C	4.03	11.05
W	4.21	10.87
0+66.7		
W	4.24	10.84
C	4.08	11.00
E 9UT	4.23	10.85
E CB	3.25	11.73

Moore
3-14-39.



15.08

1400	cb PC.		
W		4.42	10.66
C		4.24	10.84
E gut		4.40	10.68
cb		3.47	11.66

Mid. N. Ret. Napier St.

cb		3.50	11.58
gut		4.23	10.85

N cb Napier St.

W		4.37	10.71
E		4.33	10.76
+14		4.33	10.85
+32	cb	3.46	11.62
"	gut	4.23	10.85
+36	grate	4.30	10.78
"	cb	3.50	11.68

E Napier St.

W		4.55	10.53
C		4.26	10.82
E cb	old Pav.	4.38	10.70
"	new "	4.34	10.74
+15	"	4.05	11.03

15.08

S cb Napier St

74

W		4.54	10.54
C		4.37	10.71
E	old Pav	4.44	10.64
"	New "	4.40	10.68
+14	"	4.28	10.80
+32	gut	4.04	11.04
"	cb PC	3.46	11.62

Mid. S. Ret Napier St.

cb		3.72	11.36
gut		4.41	10.67

E.C. cb Ret. 0400 S Side Napier

W		4.57	10.51
C		4.39	10.69
E	gut	4.60	10.48
"	TOP cb end	3.79	11.29
	+333		

W		4.58	10.50
C		4.41	10.67
E		4.56	10.52

15.08

0 + 66.7

W	4.51	10.57
C	4.34	10.74
E	4.52	10.56

1400 P.C. cb N side Ashton

W	4.42	10.66
C	4.22	10.84
E	4.41	10.67
cb Beg.	3.43	11.65

16' S. of P.C.

gut on grate	4.48	10.60
top cb	3.39	11.69

N cb Ashton

W	4.25	10.83
C	4.10	10.98
E	4.28	10.80
+14	4.12	10.96
+32 cb	3.11	11.97
" gut grate inlet	3.96	11.12
E		
W	4.04	11.04

15.08

75

C	3.86	11.22
E	4.04	11.02
+14	3.80	11.28

S cb Ashton

W	3.90	11.18
C	3.67	11.41
E	3.91	11.17
+4	3.92	11.10
+8	3.87	11.21
+14	3.79	11.29
+32 gut	3.63	11.45
" cb	2.99	12.09

Mid. S. Ret. of Ashton

cb	3.11	11.97
gut	3.80	11.28

cb PC = 0400

W	3.70	11.38
C	3.55	11.53
E gut	3.78	11.30
E cb	2.94	12.14

15.08
50' S of P.C. S. side Ashton

76

W 846 11.62

C 837 11.76

E 94T 853 11.55

E 06 268 12.40

Xsec alley 20' wide.
 B/A D Starkey's Prospect Park

Moore
 3-29-29

S.W.B.P.	11.68	83.69		72.01	Bonaire
T.P.	12.70	95.48	0.91	82.78	
T.P.	12.91	107.74	0.64	94.84	
T.P.	3.99	111.29	0.44	107.30	

Top cb NE	Bonaire		5.34	105.99	
" "	Draper				
" "	SE Nautilus		4.58	106.76	
Pav	" "		5.20	106.09	

0-10 E cb Draper

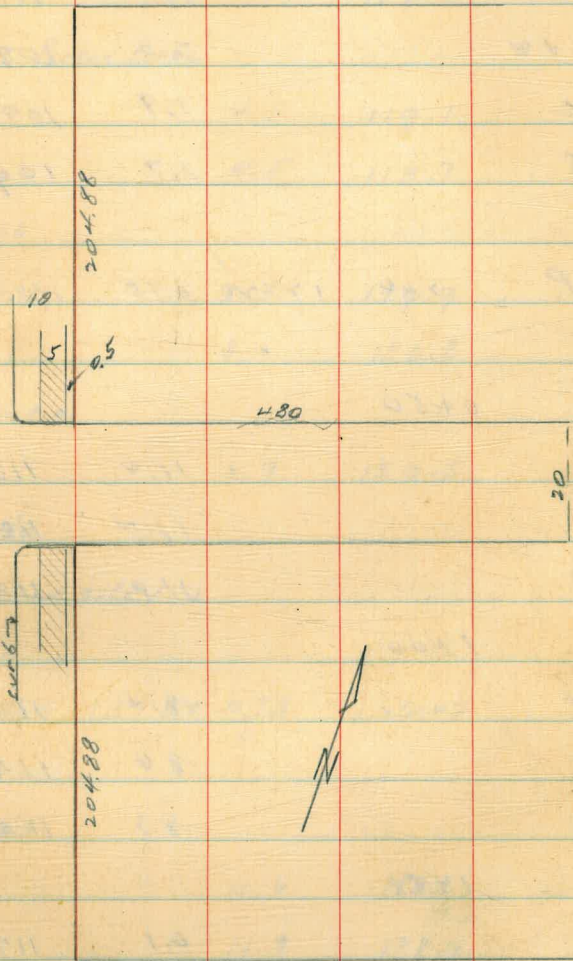
N	cb		3.27	107.82	
S	cb		3.46	107.83	
0 + 100 = E L "					
S	cb		3.25	108.04	
S			3.6	107.7	
C			3.6	107.7	
N			3.5	107.8	
N	cb		3.12	108.17	

indexed
 C.S.K.

1927

Nautilus

Draper ST NOT PAVED



Bonaire

111.29

0420

N	1.0	110.3
+V	2.0	109.3
C	1.9	109.4
S	1.7	109.6

T.P.	12.66	123.20	0.75	110.54
------	-------	--------	------	--------

0450

S	11.2	112.0
C	11.2	112.0
N	11.0	112.2

1400

N	8.4	114.8
C	8.4	114.6
S	8.3	114.9

1450

S	6.1	117.1
C	5.6	117.6
N	5.8	117.4

123.20

78

1480

N	4.0	119.2
+V	beg. 6' Picket Fence	
C	4.1	119.1
S	4.5	118.7

2400

S	3.3	119.9
C	3.0	120.2

+8 Fence

N	2.7	120.5
---	-----	-------

2440

N	End Fence in alley 1	
---	-------------------------	--

T.P.	12.35	134.84	0.73	122.47
------	-------	--------	------	--------

2450

N	11.6	123.2
C	11.9	122.9
S	11.7	123.1

134.82

3+00

-10	11.5	123.3
S	11.0	123.8
C	10.4	124.6
N	9.5	125.3
+10	8.4	126.4

3+50

-10	6.5	128.3
N	9.0	125.8
C	9.1	125.7
S	8.9	125.9
+10	8.8	126.0

3+75

-10	8.1	126.7
S	8.4	126.4
+6	7.0	127.8
C	6.9	127.9
+5	6.9	127.9
N	5.6	129.2
+10	4.8	130.0

134.82

3+95

-10	4.5	130.3
N	4.9	129.9
+6	4.6	128.2
C	6.7	128.1
+5	6.8	128.0
S	7.9	126.9
+10	7.9	126.9

4+05

-10	7.0	127.8
S	7.3	127.5
+5	6.4	128.4
C	6.3	128.5
N	6.3	128.5
+10	6.3	128.5

4+40

N	2.8	132.0
C	2.7	132.1
S	2.9	131.9

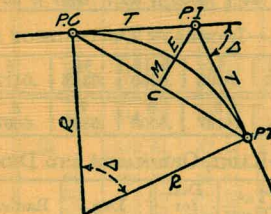
T.P.	12.65	146.79	0.70	134.12
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19

		146.77		
4+71				
N-4 & U' Cor	12.28		134.49	
4+78				
S	11.4		135.2	
C	11.5		135.3	
N	12.1		134.7	
4+80 end alley				
N	10.2		136.6	
C	10.9		135.9	
S	10.9		135.9	
5+21				
W rail of Elco. R.R.	1.42		145.35	
T.P.	10.85	157.44	0.18	146.59
T.P.	4.71	157.56	4.61	152.83
check to B.M. nail in lead top of SWIV COR. Fay + Rushville	8.54	149.00	149.29	
From Walker's Level NET				

DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

Copyright, 1914, by Eugene Dietzgen Co., New York City



CURVE FORMULAS

Radius= $R = \frac{50}{\sin \frac{D}{2}}$ (1) Degree of Curve= D and $\sin \frac{D}{2} = \frac{50}{R}$ (2)

Tangent= $T = R \tan \frac{\Delta}{2}$ (3) Length of Curve= $L = 100 \frac{\Delta}{D}$ (4)

Middle ordinate= $M = R(1 - \cos \frac{\Delta}{2}) = R \text{vers} \frac{\Delta}{2}$ (5)

External= $E = T \tan \frac{\Delta}{4} = R \div \cos \frac{\Delta}{2} - R$ (6) $= R \text{exsec} \frac{\Delta}{2}$ (9)

Long Chord= $C = 2 R \sin \frac{\Delta}{2}$ (10) $\Delta =$ Central Angle

EXPLANATION AND USE OF TABLES

Stations.—Given P. I.—Sta. 161 +60.35 to find Sta. of P. C. and P. T. $\Delta = 62^\circ 10'$ $D = 8^\circ 20'$. From Table IV for 1° curve $T = 3454.1$ and $\div 8\frac{1}{3} = 414.49$ ft. From Table V correction = .36 or $T = 414.85$ ft. P. C. = Sta. P. I. — $T = 157 + 45.50$. Also from (4) $L = 746.00$ and P. T. = Sta. P. C. + $L = 164 + 91.50$.

Offsets.—Tangent offsets vary (approximately) directly with D and with square of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent offset for 100 ft. = 7.27 ft. Distance = $158 - \text{Sta. P. C.} = 54.50$, hence offset = $7.27 (54.50 \div 100)^2 = 2.16$ ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(54.50)^2 \div (2 \times 688.26) = 2.16$ ft.

Deflections.—Deflection angle = $\frac{1}{2} D$ for 100 ft., $\frac{1}{4} D$ for 50 ft., etc. For c ft. = (in minutes) $.3 \times C \times D^\circ$ or = def. for 1 ft. from Table III $\times C$. For Sta. 158 of above curve = $.3 \times 54.5 \times 8\frac{1}{3} = 136.2'$ or $2^\circ 16.2'$, or = $2.50 \times 54.5 = 136.2'$ from Table III. For Sta. 159 deflection angle = $2^\circ 16.2' + 8^\circ 20' \div 2 = 6^\circ 26.2'$, etc.

Externals.—May be found in similar manner to tangents. Thus E for curve above is 91.37. For from Table IV for 1° curve $E = 960.6$ for $8^\circ 20' = 960.6 \div 8\frac{1}{3} = 91.27$ and from Table V correction = .10 or $E = 91.37$ ft. Or suppose $\Delta = 32^\circ$ and E is measured and found to be 42 ft. What is D ? From Table IV $E = 230.9$ and $\div 42 = 5.5$ or $D = 5^\circ 30'$.

L.S. 618 Mrs. A.F. Healey, Coronado 12.4
 27.6
 18.0

41 (389-0030)
 97-15

DISTANCES FROM CENTER OF ROADWAY FOR
 CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½
 For Single Track Embankment.

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

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