

1294



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DEC 22 1964

This subject has 71-716

This reduced copy of 7/20/76

INDEX

PAGE

X. Section Rosecrans St.	1
" " Perry St.	49
" " Quailrough St.	.
" " Roberts St.	43
" " Haller "	57-62
Under crossing Balboa Ave. American Park	66
Retaining Wall Alley Blk 244 Univ. Hts.	67
ETW Alley " " " "	68
X sec. Pennsylvania, Kite to Neale.	69
X Sec. Alley 9 Ocean Beach Park	75
" " Cypress Vermont West.	54
" " Alley Blk "N" U.H.	73

Walter
K.P. ...
11-5-28

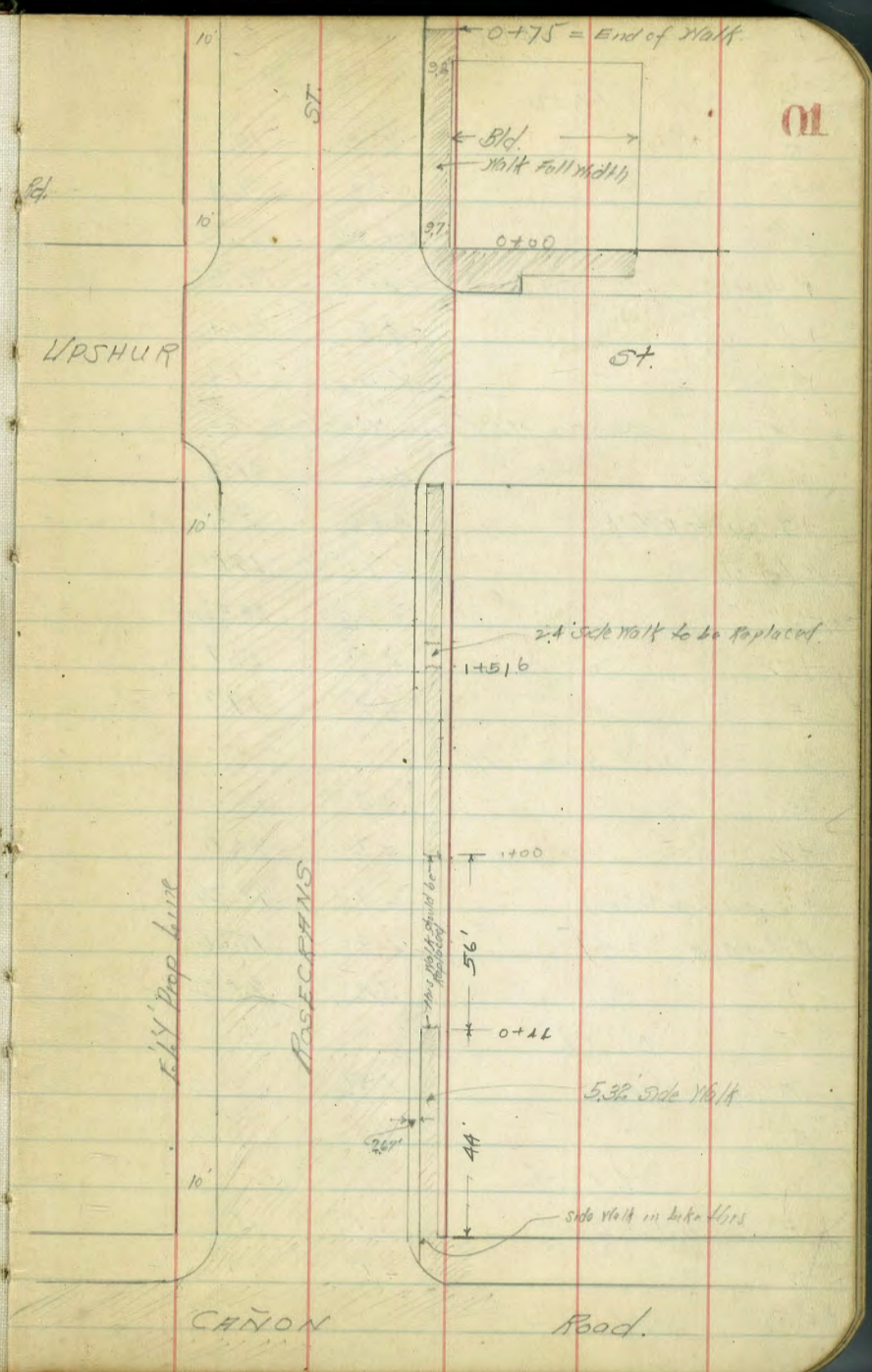
Cross Section Rosecrans St. varying
widths
From SLY Canyon Rd. to Military Rd.
Note: See Page 42 Before Reducing Rods
this B.M. should be used

3.91 24.71 20.80 SW B.P.
24.56 20.65 Rosecrans Canyon Rd.

SLY Canyon Rd = 0+00

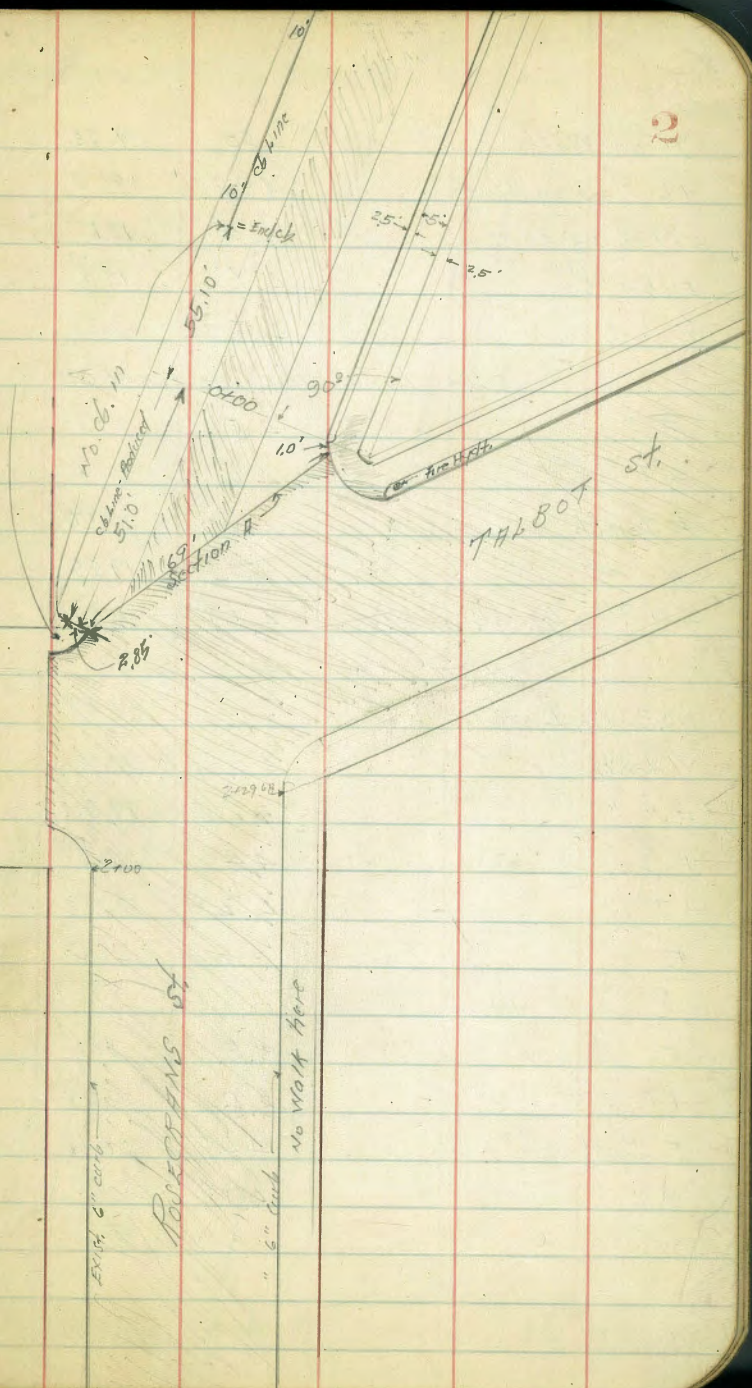
X.P. top Walk	3.47	21.09
" " cb	4.01	20.55
E " "	5.00	19.56
E.P. on Ground	5.1	19.5
{ Rod on top	2.61	21.95
{ 0+13 = 2 Fire Plug on South		
0+07 = 2 Acacia on E R=4.8	19.8	8.5 inst.
+26 = " " " " =4.6	20.0	" "
+47 = " " " " =4.5	20.1	" "
+59 = " " " " =4.4	20.2	" "
+78 = " " " " =4.7	19.9	" "
+94 = " " " " =4.3	20.3	" "
0+58		
E	4.80	19.76
+8	4.4	20.2
E top cb.	5.30	19.26
" " "	4.32	20.24
"	4.0	20.6
1400		
"	4.2	
" top cb	4.43	20.13
E " "	5.53	19.03
+2	4.6	20.0
E	4.5	20.1

Plotted Jan 16-29. CBH

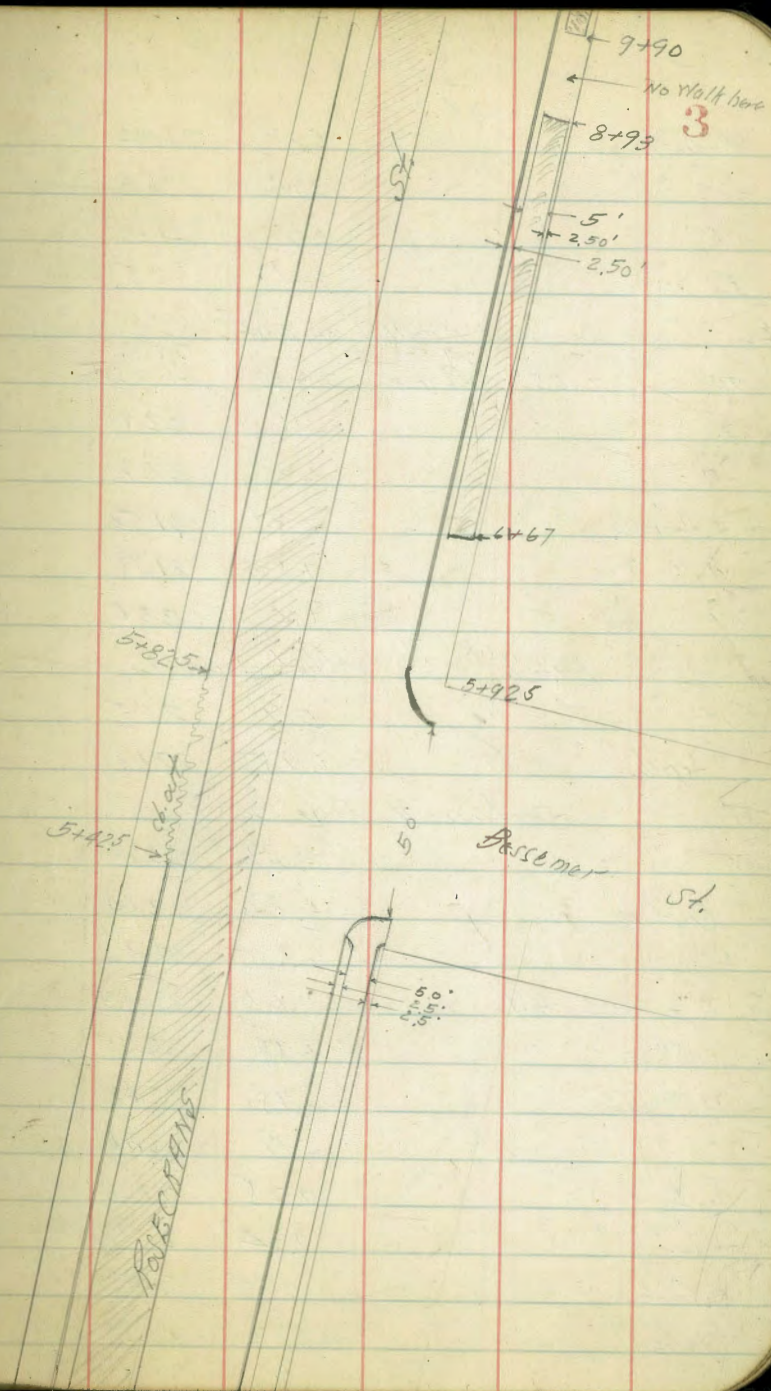


24.56
24.71
1450

E	53	19.3
+8	53	19.3
E ^{top} cb	578	18.78
N ^{top} cb	471	19.85
+8	45	20.1
N	40	20.6
2400 = N ^W line Upchurch St.		
N	44	20.2
+2 on top Walk	468	19.88
N ^{top} cb	496	19.60
E " "	603	18.53
+2	49	19.7
E	47	19.9
N ^W line + 9'		
E	44	20.2
+4	46	20.0
+6 on top Return	617	18.39
N ^{cb} + 4 " "	490	19.66
N	44	20.2
N ^{cb}		
N on End Return	486	19.70
E " " "	620	18.36
S ^W cb		
E ^{top} end Return	619	18.37
N " " "	491	19.65
S ^W cb + 3'		



	24.71	
Y on Walk	4.80	19.76
+6 " top on Return	4.99	19.57
E 1/4" cb + 3" "	6.0	18.6
E cb + 5	4.7	19.9
E	4.5	20.1
Sky Line Upshot = 0+00		
E	4.5	20.1
+7	4.6	20.0
E top cb.	6.00	18.56
Y " "	5.03	19.53
+9.70 = top Walk at Bld.	4.59	19.97
0+50		
+0.3 on top Walk	3.93	20.63
Y top cb.	4.40	20.16
E " "	5.25	19.31
+2	4.4	20.2
+7	4.3	20.3
E	3.6	21.0
1+00		
E	3.6	21.0
+7	3.8	20.8
E top cb.	4.45	20.11
Y " "	3.75	20.81
Y	3.2	21.4
1+50		
Y	2.3	22.3



Rosecrans St.

2456
2471

4

M top cb	312	21.44
E " "	374	20.82
+4	37	21.4
E	2.1	22.5

R+00 = NBY to bot on East.

TP	7.55	29.43	268	27.03	27.88
----	------	-------	-----	-------	-------

E	6.6	22.8
---	-----	------

+7	6.5	22.9
----	-----	------

E top cb	7.91	21.52
----------	------	-------

Y " "	7.57	21.86
-------	------	-------

Y	6.2	23.0
---	-----	------

R+29.68 = NBY to bot of on Y

Y	5.9	23.5
---	-----	------

" top cb	6.95	22.48
----------	------	-------

Section # Page 2

Y " "	6.29	23.14
-------	------	-------

" Gut. on Pav.	6.82	22.61
----------------	------	-------

7	6.60	22.83
---	------	-------

+4 on M top Rail	6.61	22.82
------------------	------	-------

+10.5' E " "	6.58	22.85
--------------	------	-------

+14.5 on Pav.	6.75	22.88
---------------	------	-------

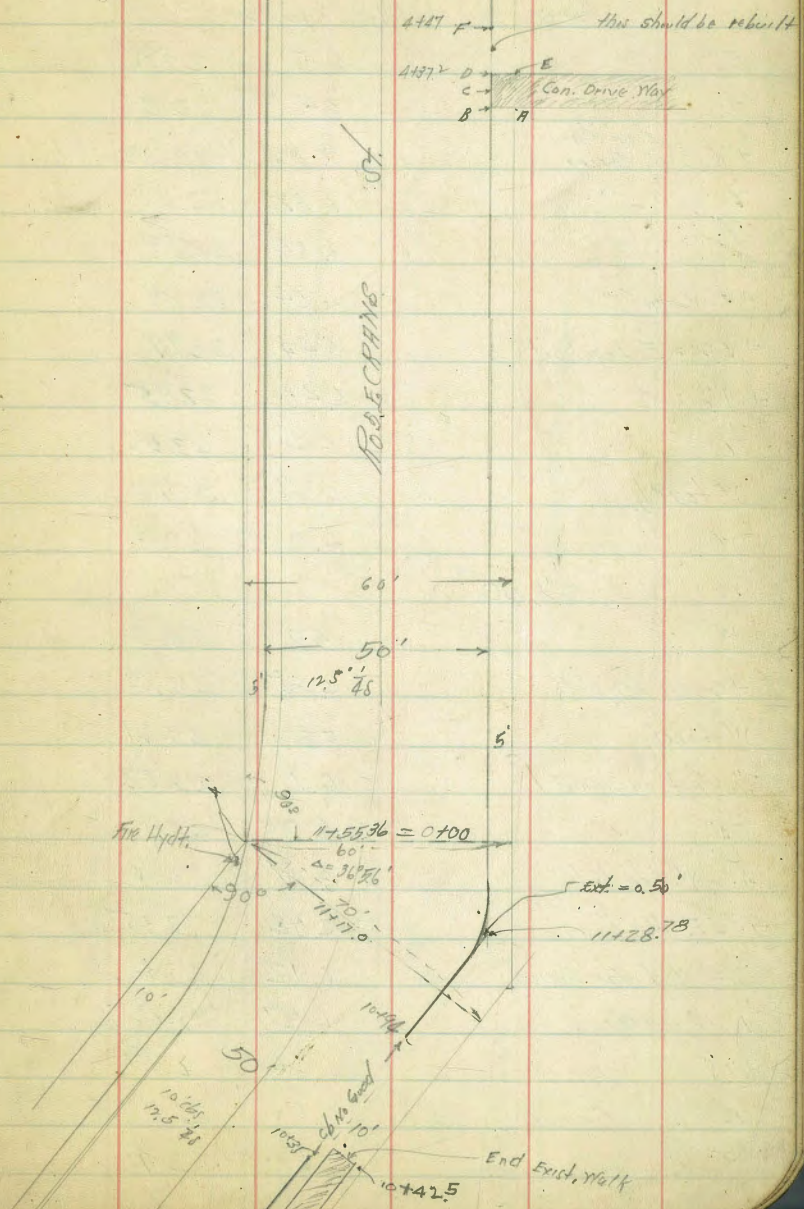
E " "	6.79	22.84
-------	------	-------

E 1/2 " "	7.25	22.18
-----------	------	-------

+6.7 " "	7.54	21.89
----------	------	-------

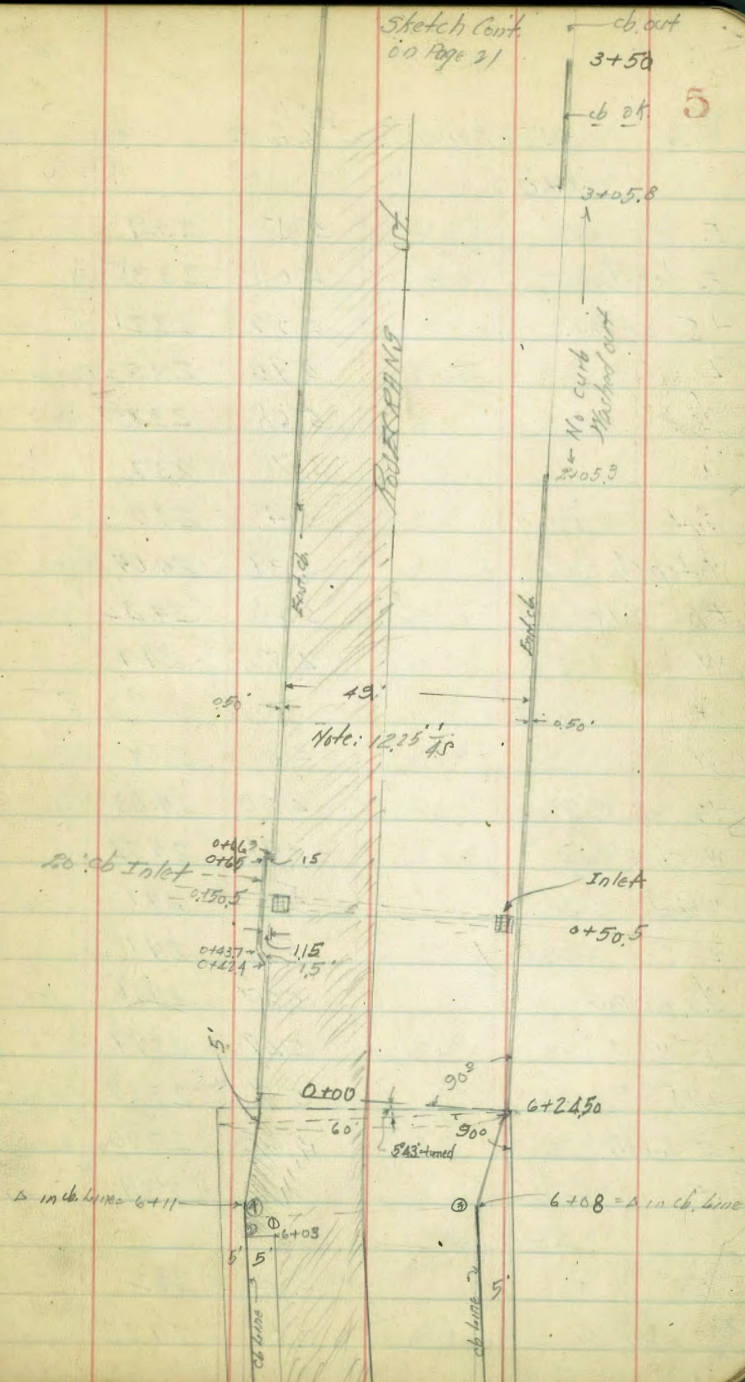
E Gut " "	7.93	21.50
-----------	------	-------

E top cb	7.50	21.93
----------	------	-------



OK → 29.43 ✓
29.58

E cb + 10' = E ₆	6.8	22.6
0+00 see sketch Page 2		
E	6.5	22.9
cb.	6.4	23.0
+ 6.3' East edge on Avring	7.10	22.33
$\frac{1}{2}$ " "	6.82	22.61
$\frac{1}{2}$ " "	6.54	22.89
+ 1 = W edge "	6.54	22.89
+ 4.7 = E top Rail	6.44	22.99
+ 9.7 = W " "	6.48	22.95
$\frac{1}{2}$	6.4	23.0
W top cb.	6.29	23.14
W	6.0	23.4
0+50		
W	5.0	24.4
+ 2 on top Walk	5.65	23.78
W top cb.	5.82	23.61
" Gut. on Ground	6.1	23.33
$\frac{1}{2}$	6.0	23.4
4.6 = W top Rail	6.07	23.36
9.9 = E " "	6.08	23.35
$\frac{1}{2}$ = West edge Avring	6.12	23.31
$\frac{1}{2}$ = on Av	6.37	23.06
+ 7.5 " " east edge	6.66	22.77
E cb. on Ground	6.6	22.8
E	6.5	22.9



2943
29.58

0+55 = beginning of cb. on E
1+00

E	55	23.9
E top cb.	6.08	23.35
+5 on Pav.	6.22	23.21
$\frac{1}{2}$ " "	5.90	23.53
$\frac{1}{2}$ " "	5.68	23.75
$\frac{1}{4}$	5.7	23.7
Gut	5.4	24.0
W top cb.	5.39	24.04
+8 " Walk	5.21	24.22
W	4.5	24.9
1+50		
W	4.0	25.4
+2 on Walk	4.80	24.63
W cb.	4.91	24.52
" Gut	5.3	24.1
$\frac{1}{4}$	5.3	24.1
$\frac{1}{2}$ on Pav.	5.27	24.16
$\frac{1}{2}$ " "	5.49	23.94
+7.5 " "	5.79	23.64
E top cb.	5.63	23.80
E	5.5	23.9
2+00		
E	5.2	24.2
E top cb.	5.20	24.23

2943
29.58

+5 on Pav	5.39	24.04
$\frac{1}{2}$ " "	5.04	24.39
$\frac{1}{2}$ " "	4.82	24.61
$\frac{1}{2}$	4.8	24.6
Gut	4.9	24.5
W top cb.	4.44	24.99
W	4.1	25.3
2+50		
W	3.4	26.0
+2 on Walk	3.81	25.62
W top cb.	3.96	25.47
" Gut	4.6	24.8
$\frac{1}{2}$	4.4	25.0
$\frac{1}{2}$ on Parking	4.39	25.04
$\frac{1}{2}$ " "	4.64	24.79
+7.5 " "	4.94	24.49
E top cb.	4.77	24.66
E	4.3	25.1
3+00		
E	4.3	25.1
E top cb.	4.36	25.07
+5 on Pav.	4.56	24.87
$\frac{1}{2}$	4.23	25.20
$\frac{1}{2}$ " "	3.94	25.49
$\frac{1}{2}$ " "	4.00	25.43
Gut.	4.1	25.33

6

R943
29.58

W top cb.	347	25.96
" cb + 8 on top Walk	335	26.08
W	3.0	26.4
3+50		
W	2.8	26.6
" top cb.	3.04	26.99
Gut	3.6	25.8
$\frac{1}{2}$	3.5	25.9
$\frac{1}{2}$ on top Par	3.52	25.91
$\frac{1}{4}$ " " "	3.76	25.67
+7.5" " "	4.12	25.31
E top cb.	3.95	25.218
E	3.8	25.63
4+00		
E	3.6	25.8
E top cb.	3.52	25.91
Gut	3.9	25.5
+5 on Par.	3.63	25.80
$\frac{1}{2}$ " "	3.34	26.09
$\frac{1}{2}$ " "	3.08	26.35
$\frac{1}{2}$	3.2	26.23
Gut	3.2	26.23
W top cb.	2.57	26.86
W	2.4	27.0
4+50		
W	1.4	28.0

R943
29.58

-12 on Walk	2.01	27.42	7	
W top Walk	2.13	27.30		
Gut	2.8	26.6		
$\frac{1}{2}$	2.8	26.6		
$\frac{1}{2}$ on Par	2.68	26.75		
$\frac{1}{2}$ " "	2.95	26.48		
+7.5	3.27	26.16		
E top cb.	3.13	26.30		
E	3.3	26.83		
T.P. 10.47	37.30 37.15	27.5	26.68	
5+00				
E	10.0	27.2		
E top cb.	10.46	26.69		
+5 on Par.	10.59	26.56		
$\frac{1}{2}$	10.26	26.89		
$\frac{1}{2}$	9.95	27.20		
$\frac{1}{2}$	10.0	27.2		
Gut	10.0	27.2		
W top cb.	9.47	27.68		
+8 " Walk	9.35	27.90		
W	9.0	28.15		
5+28 = 2 Fire Hydrant on W 19' W.W.C.B. Rd on top 6.73 37.15				
T.P. on Max. BR. ROSECRANCE & BRASSEMER	9.25	27.90		
Note: think B.M. of Canal Rd. Has been moved Will have turn lock to Canal Rd. 16V 29.67				
T.P.	2.61	24.65	7.63	27.04
28.05 = B.M. 0.15 = difference 28.05 = Above B.M.				

2465

cbt. on SV. BP. Poles and Cane St. 385

Note: Will now make corrections
from page 1 to page 7

2080

220.65

2.15

11.15 3980

27.90

28.05

N.Y. BP.
Poles and
Cane St.
10' x 15'
10' x 15'

5 + 32.5 = N.Y. line between st. 60 wide

Y	10.4	28.7
+2' on Walk	10.90	28.15
W top ch	11.10	27.95
" Gut.	11.2	27.7
$\frac{1}{2}$	11.4	27.7
+ 4.5' on W Rail	11.40	27.65
+ 9.3' " E "	11.40	27.65
$\frac{1}{2}$ " Pav.	11.53	27.52
$\frac{1}{2}$ " "	11.85	27.20
+ 7.5' on "	12.20	26.85
+ 11 " Ground	11.7	27.35
E. cb. top.	12.08	26.97
+ 2	11.4	27.7
E.	12.0	27.1

340.5 = N. cb. = End cb on E. See sketch

E	11.5	27.6
+ 5	10.9	28.2
E top ch	11.95	27.10
+ 5 on Pav.	12.07	27.13
$\frac{1}{2}$ " "	11.68	27.37
$\frac{1}{2}$ " "	11.42	27.63

3920

8

$\frac{1}{2}$	11.3	
Gut	11.3	27.8
W top ch = End Return	11.01	28.04
N $\frac{1}{2}$		
W	10.9	28.2
cb.	10.8	28.3
$\frac{1}{2}$	11.0	28.1
$\frac{1}{2}$ on Pav.	11.2	27.81
$\frac{1}{2}$ " "	11.57	27.48
+ 7.5' "	11.88	27.17
cb. on Ground	11.6	27.5
+ 6	11.2	27.9
E	12.4	27.7
$\frac{1}{2}$		
E	11.6	28.5
+ 4	11.2	28.9
cb. on Ground	11.3	28.8
+ 5 on Pav.	11.73	27.32
$\frac{1}{2}$ " "	11.43	27.62
$\frac{1}{2}$ " "	11.10	27.95
$\frac{1}{2}$	11.0	28.1
cb.	11.0	28.1
W	10.8	28.3
$\frac{1}{2}$		
W	10.3	28.8
cb.	10.7	28.4

39.20

39.05

$\frac{1}{2}$	10.7	28.4
$\frac{1}{2}$ on Pav.	10.95	28.10
$\frac{1}{4}$ " "	11.2	27.81
+7.5 " "	11.55	27.50
E top cb.	11.35	27.70
+6	11.2	27.9
E	13.0	26.1
+5	14.8	25.3
S cb. - beginning cb. on E		
-5	12.6	24.5
E	11.0	28.1
E top cb.	11.43	27.62
+5 on Pav.	11.22	27.63
$\frac{1}{4}$ " "	11.13	27.92
$\frac{1}{2}$ " "	10.76	28.29
$\frac{1}{4}$ " Ground	10.5	27.55
cb.	10.8	28.65
W top cb. = Ent Return	10.13	29.92
5+925 = South line Bessemer st.		
W	9.3	30.75
" top cb.	10.12	28.93
$\frac{1}{4}$	10.2	28.9
+4.6 = top W. Rail	10.40	28.65
+9.3 = " E Rail	10.37	28.68
$\frac{1}{2}$ on Pav.	10.54	28.51
$\frac{1}{4}$ " "	10.80	28.25

39.20

39.05

9

+7.5 on Pav.	11.19	27.86
Gut	11.5	27.6
E top cb.	11.11	27.94
+8	10.6	28.45
E	11.2	27.85
+5	13.5	25.6
T.P. on 8th 12.83	40.88	28.05
	6+50	
-5	12.0	28.7
E	10.3	30.4
E top cb.	10.28	30.50
" Gut	10.9	29.8
+5 on Pav.	10.38	30.40
$\frac{1}{4}$ " "	9.99	30.74
$\frac{1}{2}$ " "	9.68	31.05
+7	9.6	31.1
$\frac{1}{2}$	10.0	30.7
W Gut	10.2	30.5
" top cb.	9.17	31.56
"	8.8	32.87
	7+00	
W	6.3	34.43
+2 on Walk	6.86	33.87
W top cb.	7.06	33.67
" Gut	7.5	33.2
" $\frac{1}{2}$	7.7	33.03

40.88
40.73

7+5	7.5	33.23
2 on Pav.	7.45	33.28
1/2 " "	7.73	33.0
+7.5 " "	8.10	32.63
E Gut.	8.6	32.13
E top cb.	8.17	32.56
E	7.9	32.8
+5	9.0	31.7

7+50

-5	5.9	34.8
E	5.5	35.2
" top cb.	5.77	34.96
" Gut	6.3	34.4
+5 on Paving	5.82	34.91
1/2 " "	5.48	35.25
1/2 " "	5.21	35.52
+7	5.3	35.4
1/4	5.3	35.4
Y Gut	5.4	35.3
" top cb.	4.72	36.01
Y	4.4	36.3

8+00

Y	2.3	38.4
+2 on top Walk	2.38	38.35
Y top cb.	2.56	38.17
" Gut	3.2	37.53

40.88
40.73

10

1/2	3.1	37.63
2 on Paving	3.05	37.68
1/2 " "	3.35	37.38
1.75 " "	3.67	37.06
E Gut	4.1	36.63
E top cb.	3.56	37.17
E	3.4	37.33
+5	3.2	37.53

8+50

E-5	2.8	37.93
E	1.3	39.43
" top cb.	1.30	39.43
" Gut	1.9	38.83
+5 on Paving	1.44	39.29
1/2 " "	1.1	39.62
1/2 " "	0.80	40.73
1/4	1.0	39.73
Y Gut	1.0	39.73
" top cb.	0.34	40.39
+8 on Walk	0.12	41.61
Y	0.0	41.73
T.P.	11.96	52.38

9+00

Y	9.2	43.0
+2	9.7	42.5
Y top cb. in Driveway	10.28	41.95

39.93

52.23
52.38

52.38

52.23

$\frac{1}{4}$	10.2	42.0
$\frac{1}{2}$ on Pav.	10.68	42.15
$\frac{1}{4}$ " "	10.35	41.88
+7.5 " "	10.71	41.52
E Gut	11.1	41.13
" top cb	10.60	41.63
E	10.4	41.8
+2	10.6	41.6
+10	14.8	37.4
9+50		
E-10	7.7	44.5
E-5	7.5	44.7
E	8.3	43.9
" top cb	8.37	43.86
" Gut	8.6	43.6
+5 on Pav.	8.50	43.73
$\frac{1}{4}$ " "	8.17	44.06
$\frac{1}{2}$ " "	7.87	44.36
$\frac{1}{4}$	7.7	44.5
W Gut	8.0	44.2
" top cb	7.37	44.86
+5	7.7	44.5
W	7.1	45.1
10+00		
W	4.9	47.3
+2 on Walk	4.95	547.28

52.38

52.23

11

W top cb	5.10	47.13
" Gut	5.7	46.5
$\frac{1}{2}$	5.7	46.5
$\frac{1}{2}$ on Pav.	5.65	46.58
$\frac{1}{4}$ " "	5.88	46.35
+7.5 " "	6.28	45.95
E Gut	6.7	45.5
" top cb	6.15	46.08
E	5.6	46.6
10+42.5 = End of Walk on West		
E	3.4	48.8
+5	4.3	47.9
E top cb	4.24	47.99
" Gut	4.7	47.5
+5 on Pav.	4.25	47.98
$\frac{1}{4}$ " "	4.00	48.23
$\frac{1}{2}$ " "	3.71	48.52
$\frac{1}{4}$	3.9	48.3
W Gut	4.1	48.1
" top cb		
+7.5 on top walk	3.08	49.15
	3.0	49.23
{ 10+35 = End cb. on West.	3.59	48.64 }
10+47		
W	+7.5	54.7
+5	1.4	50.8

5238
5223

N. Girt		38	48.4
" 2		3.6	48.6
2 on Paring		3.51	48.72
1/4 " "		3.76	48.47
+7.5 " "		4.06	48.17
E. Girt		4.5	47.73
" Topcb		4.04	48.19
+6		4.1	48.1
E		3.3	48.9
TP	827	57.03	3.62
			48.76
	10 + 58.7 = P.C. of Pav.		
E		7.4	49.5
+4		8.1	48.8
Ecb		8.18	48.76
" Girt		8.7	48.2
+5 on Pav.		8.22	48.66
1/4 " "		7.92	48.96
1/2 " "		7.73	49.15
+3 " E Rail		7.90	48.98
+7.72 " "		7.68	49.20
1/4		8.0	48.9
N cb on ground		8.0	48.9
cb + 6		4.1	52.8
N		3.0	53.9
Σ 10 + 94 = beginning cb. on N		6.09	50.79

11 + 17 see sketch

5703
5688

12

N		1.7	55.2
+5		3.9	53.0
N Topcb		5.56	51.32
1/2		5.9	51.0
2		5.7	51.0
+1.5 = N Rail		5.81	51.04
+6.8 = E Rail		5.96	50.92
+9.9 = West edge Paring		6.01	50.87
1/2 on "		6.04	50.84
cb + 6 = East edge Paring		6.61	50.27
E Girt = cb + 7.5		6.6	50.3
E topcb = E line		6.26	50.62
11 + 28.78 on topcb on West		5.30	51.58
	11 + 55.36 = 0 + 00 see sketch Page 4		
E = topcb		6.26	50.62
E + 3.8 = east edge Paring		6.52	50.32
1/4 on Pav.		5.82	51.06
+6.8 = West edge Paring		5.61	51.27
+9.9 = East Rail		5.49	51.39
1/8		5.3	51.6
+2.5 = West Rail		5.25	51.63
1/2		5.4	51.48
N topcb in Drive Way		5.25	51.63
N		4.4	52.5
	0 + 10		
N		4.0	52.9

5703
57.88

+5 = top cb.	4.36	52.52
W Gut	5.0	51.9
" $\frac{1}{4}$	5.2	51.7
$\frac{1}{2} + 3.9 = \text{top W Rail}$	5.02	51.86
$\frac{1}{4}$	5.2	51.7
+0.4 = top E Rail	5.22	51.66
+3' = West edge Paring	5.39	51.49
$\frac{1}{4}$ = on Paring	5.67	51.21
+11.3 = East edge Paring	6.20	50.68
E cb.	6.5	50.4
" " +2.2	6.2	50.7
+2.2 on top cb.	5.96	50.92
E	5.6	51.30
0+30		
E	5.2	51.7
+5 = top cb.	5.40	51.48
E Gut	5.8	51.1
+4.2 = East edge Paring	5.62	51.26
$\frac{1}{4}$ on Paring	5.14	51.74
+11.7 " West edge Paring	4.71	52.17
$\frac{1}{4}$	4.7	52.18
+2.4 = E Rail	4.80	52.08
+7.3 = W "	4.62	52.26
$\frac{1}{4}$	4.8	52.1
W Gut	4.8	52.1
" top cb.	3.86	53.02

5703
57.88

W	3.6	53.3	13
0+50			
W	3.3	53.6	
cb.	3.51	53.37	
Gut	4.3	52.6	
$\frac{1}{4}$	4.5	52.4	
+2.6 = W Rail	4.22	52.66	
+9.5 = E "	4.88	52.50	
$\frac{1}{4}$ = West edge Paring	4.21	52.67	
$\frac{1}{2}$ on Par	4.66	52.22	
+7.5 " East edge Paring	5.05	51.83	
E Gut	5.4	51.48	
E top cb.	4.96	51.92	
E	4.7	52.2	
0+60			
E	4.8	52.1	
" top cb.	4.81	52.07	
" Gut	5.1	51.8	
+5 = East edge Par.	4.96	51.92	
$\frac{1}{4}$ on Par.	4.55	52.33	
$\frac{1}{4}$ " "	4.13	52.75	
+3 " E Rail	4.29	52.59	
+4.7 " W "	4.15	52.73	
$\frac{1}{4}$	4.2	52.68	
W Gut	4.3	52.58	
" top cb.	3.45	53.43	

5703

6.88

N		32	53.7
	0+70		
N		32	53.7
" top cb		348	53.40
" Gut		40	52.9
$\frac{1}{4}$		41	52.8
+4.8 = N Rail		416	52.72
+9.5 = E "		429	52.59
$\frac{1}{2}$ on West edge Pav.		412	52.76
$\frac{1}{2}$ " Pav.		451	52.37
+7.5 " "		488	52.00
E Gut.		52	51.7
E top cb		475	52.13
E		47	52.2

0+80

E		48	52.1
E top cb		475	52.13
" Gut		51	51.8
+5 = Pav.		487	52.01
$\frac{1}{4}$		448	52.40
$\frac{1}{2}$		407	52.81
E Rail		430	52.58
N "		419	52.69
$\frac{1}{4}$		411	52.77
N Gut		42	52.7
" top cb		454	52.34

5703

57.88

N		33	53.3	14
	0+90			
N		32	53.7	
" top cb		363	53.23	
" Gut		46	52.28	
$\frac{1}{4}$		43	52.6	
N Rail		426	52.62	
E "		433	52.55	
$\frac{1}{2}$ on Pav.		414	52.74	
$\frac{1}{2}$ " "		453	52.35	
+7.5 " "		491	51.97	
E Gut		51	51.8	
" top cb		476	52.12	
E		47	52.2	

1+00

E		50	51.9
" top cb		488	52.00
" Gut		53	51.6
+5 on Pav.		508	51.80
$\frac{1}{4}$ " "		470	52.18
$\frac{1}{2}$ " "		428	52.60
E Rail		440	52.48
N "		438	52.50
$\frac{1}{4}$		46	52.28
Gut		48	52.1
N top cb		383	53.05

5703

56.88

Y		35	
	1710		
Y		39	52.9
" Top Ch.		405	52.83
" Gut		57	51.7
$\frac{1}{4}$		50	51.9
W Rail		459	52.29
E "		463	52.25
L on Pav.		452	52.36
$\frac{1}{4}$ " "		483	52.05
+7.5 " "		522	51.66
E Gut		56	51.3
E Top Ch.		509	51.79
E		53	51.6
	1720		
E		55	51.4
" Top Ch.		516	51.74
Gut		58	51.1
+5 on Pav.		555	51.33
$\frac{1}{4}$ " "		517	51.71
$\frac{1}{2}$ " "		488	52.00
E Rail		487	52.01
W "		485	52.03
$\frac{1}{4}$		52	51.7
Gut		54	5.5
Y Top Ch.		436	52.52

5703

56.88

15

W		40	
	1730		
Y		43	52.6
" Top Ch.		471	52.17
" Gut		57	51.2
$\frac{1}{4}$		55	51.4
W Rail		516	51.72
E "		516	51.72
L on Pav.		520	51.68
$\frac{1}{4}$ " "		549	51.39
+7.5 " "		582	51.06
E Gut		62	50.7
E Top Ch.		579	51.09
E		58	51.1
	1740		
E		62	50.7
" Top Ch.		610	50.8
" Gut		65	50.4
+5 on Pav.		625	50.63
$\frac{1}{4}$ " "		590	50.98
$\frac{1}{2}$ " "		560	51.28
E Rail		554	51.34
W "		554	51.34
$\frac{1}{4}$		58	51.1
Gut		60	50.9
W Top Ch.		511	51.77

5703
16.88

5703
56.88

W		48	
	1+50		
W		51	51.8
" Topcb		549	51.39
" Girt		58	51.1
$\frac{1}{4}$		62	50.7
W Rail		592	50.96
E "		592	50.96
$\frac{1}{2}$ on Pav.		600	50.88
$\frac{1}{4}$ " "		634	50.54
+75 " "		668	50.20
E Girt		67	50.2
" Topcb		651	50.37
E		66	50.3
	2+00		
E		86	48.3
" Topcb		852	48.36
" Girt		87	48.18
" +5 on Pav.		868	48.20
$\frac{1}{4}$ " "		837	48.51
$\frac{1}{2}$ " "		804	48.84
E Rail		797	48.91
W "		797	48.91
$\frac{1}{2}$		82	48.7
E Girt		84	48.5
W Topcb		754	49.34

W		74	
T.P.	0.15	48.78	486.3
		48.63	1848
		2+50	486.3
W		0.6	48.6
" Topcb		123	47.40
" Girt		17	46.9
+7		24	46.2
$\frac{1}{2}$		20	46.6
W Rail		173	46.9
E "		174	46.89
$\frac{1}{2}$ on Pav.		174	46.89
$\frac{1}{2}$ " "		207	46.54
+75 " "		242	46.21
E Girt		28	45.8
E Topcb		224	46.39
E		24	46.2
	3+00		
E		46	44.0
" Topcb		436	44.27
" Girt		48	43.8
+5 on Pav.		436	44.27
$\frac{1}{2}$ " "		401	44.62
$\frac{1}{2}$ " "		374	44.89
E Rail		374	44.89
W Rail		376	44.87
$\frac{1}{2}$		41	44.5

4878
4863

+5	24	44.2
W Gut	40	44.6
" top cb	3.19	45.44
W	3.0	45.6
3+50		
W	5.1	43.5
" top cb	5.20	43.43
" Gut	6.1	42.53
+7	6.4	42.2
$\frac{1}{4}$	6.2	46.4
W Rail	5.7	42.89
E "	5.77	42.86
$\frac{1}{2}$ on Pav.	5.72	42.91
$\frac{1}{4}$ " "	6.02	42.61
+7.5	6.41	42.22
E Gut	6.8	41.8
E top cb	6.29	42.34
E	6.0	42.6
4+00		
E	8.6	40.0
E top cb	8.27	40.36
" Gut	8.5	40.1
+5 on Pav	8.40	40.2
$\frac{1}{4}$ " "	8.02	40.61
$\frac{1}{2}$ " "	7.7	40.89
E Rail	7.82	40.81

4878
4863

17

W Rail	7.81	40.82
$\frac{1}{4}$	8.0	40.6
+5	8.2	40.4
Gut	8.2	40.4
W top cb	7.20	41.4
W	7.0	41.6
T.P. 0.99	40.97	39.98
A on Drive way at Prop. line	0.35	40.62
B " top cb	0.56	40.41
C " $\frac{1}{2}$ Drive way at cb line	1.17	39.80
D " top cb	0.99	39.98
E " Drive way at prop. line	0.75	40.22
F " top cb	1.40	39.57
4+50		
W	0.5	40.92
" top cb	1.58	39.39
" Gut	2.4	38.6
$\frac{1}{4}$	2.5	38.5
$\frac{1}{2}$ on Pav.	2.12	38.85
$\frac{1}{4}$ " "	2.40	38.57
+7.5 " "	2.74	38.23
Gut	2.9	38.1
E top cb	2.67	38.20
E	2.9	38.1
5+00		
E	4.7	36.3

4112
4097

4112
4097

759

18

E top cb.	4.65	36.32
" Gut	5.2	35.8
+5 on Pav.	4.75	36.23
$\frac{1}{4}$ "	4.39	36.58
$\frac{1}{2}$ " "	4.06	36.91
$\frac{3}{4}$ "	4.5	36.5
W Gut	4.3	36.7
" top cb.	3.53	37.44
W	2.0	39.0
5+50		
W	1.2	36.8
" top cb.	5.56	35.41
" Gut	5.9	35.1
+7	7.0	34.0
$\frac{1}{4}$ "	6.4	34.6
$\frac{1}{2}$ on Pav.	6.0	34.96
$\frac{3}{4}$ " "	6.41	34.56
+7.5 " "	6.82	34.15
E Gut.	7.1	33.9
" top cb.	6.65	34.32
E	6.9	34.1
6+00		
E	8.0	33.0
" top cb.	8.61	32.36
" Gut	8.6	32.4
+5 on Pav.	8.86	32.11

$\frac{1}{4}$ on Pav.	8.42	32.55
$\frac{1}{2}$ " "	7.91	33.06
+1.2 = start edge paving	7.87	33.10
+4.5 = E Rail	7.79	33.18
+9.2 = W "	7.88	33.09
$\frac{1}{4}$ "	8.1	32.9
+6	8.4	32.6
W Gut	7.7	33.3
" top cb.	7.37	33.60
W	6.0	35.0
⊖ = on Paving	8.97	32.00
⊙ " " at cb. line	9.27	31.70
⊙ = top cb. Sta 6+08 on W	7.58	33.39
⊙ = 6+11 = 4 inches on E - top cb.	8.94	32.03
6+24.5 = 0+00 ^{see sketch page 5} Note: 50' st. 49' rd/way 1225' 45		
E top cb.	9.42	31.55
" Gut on Pav.	9.98	30.99
$\frac{1}{4}$ " "	9.02	31.95
+9.25 = start edge paving	8.67	32.30
$\frac{1}{2}$ "	8.6	32.4
+0.25 = on E Rail	8.59	32.38
+5 = " W "	8.70	32.27
$\frac{1}{4}$ "	8.4	32.6
+7	9.0	32.0
W Gut	8.7	32.3
" top cb.	8.08	32.89

4112
4097

0+20

W top cb.	8.53	32.44
" Gut	9.0	32.0
$\frac{1}{4}$	8.8	32.2
+7.8 = W Rail	9.10	31.87
$\frac{1}{2}$	9.1	31.9
+0.75 = E "	9.03	31.94
+3.5 = W edge Paving	9.06	31.91
E $\frac{1}{2}$ on Pav.	9.42	31.55
" Gut " "	10.15	30.82
" top cb.	9.69	31.28

0+42.4 see sketch

E top cb.	9.62	31.35
" Gut. on Pav	10.32	30.65
" $\frac{1}{2}$ " "	9.60	31.37
+7.85 " West edge Pav.	9.31	31.66
$\frac{1}{2}$ +11.2 = E Rail	9.30	31.67
$\frac{1}{2}$	9.3	31.67
+3.6 = W "	9.40	31.57
$\frac{1}{2}$	9.1	31.9
W Gut.	9.4	31.6
" top cb.	8.78	32.19

0+150.5 = 6 Inlets

W top cb.	8.82	32.15
" " Grading at cb line	9.84	31.13
E " " " " "	10.43	30.54

4112
4097

E top cb. 9.71 31.26 19

0+66.3

E top cb.	9.67	31.30
" Gut. on Pav	10.52	30.45
" $\frac{1}{4}$ " "	9.68	31.29
+7.35 " " West edge	9.35	31.62
+10.65 = E Rail	9.28	31.69
$\frac{1}{2}$	9.3	31.7
+3 = W "	9.37	31.60
$\frac{1}{4}$	9.0	32.0
W Gut	9.5	31.5
W top cb.	8.82	32.15

0+83.7 = Bk. in cb. line on E

W " "	8.71	32.26
" Gut	9.2	31.8
" $\frac{1}{2}$	9.0	32.0
+9.15 = W Rail	9.25	31.72
$\frac{1}{2}$	9.2	31.8
+1.6 = E "	9.15	31.82
+5 = West edge Paving	9.18	31.79
$\frac{1}{4}$ on Pav.	9.42	31.55
E Gut on Pav.	10.23	30.74
" top cb.	9.73	31.24

1+14.5 = Bk. in cb. line on E

E top cb.	9.31	31.66
" Gut. on Pav	9.78	31.19

4112
4017

$\frac{1}{4}$ on Paring	895	32.02
+ 6.95 on Paring West edge	866	32.31
+ 10.25 " E Par	865	32.32
$\frac{1}{2}$	87	32.3
+ 7.7 - W "	870	32.27
$\frac{1}{4}$	86	32.4
W Gut	81	32.9
" Top cb.	813	32.87
1440		
W Top cb.	739	33.58
" Gut.	81	32.9
$\frac{1}{2}$	80	33.0
$\frac{1}{2}$	78	33.2
+ 5 on West edge Paring	788	33.09
$\frac{1}{2}$ " Par.	817	32.80
E Gut on Paring	894	32.03
" Top cb.	848	32.49
1480		
E Top cb.	700	33.97
" Gut. on Paring	745	33.52
$\frac{1}{2}$ " "	671	34.26
+ 7.25 " " West edge	644	34.53
$\frac{1}{2}$	63	34.7
$\frac{1}{2}$	68	34.2
W Gut.	69	34.1
W Top cb.	594	35.13

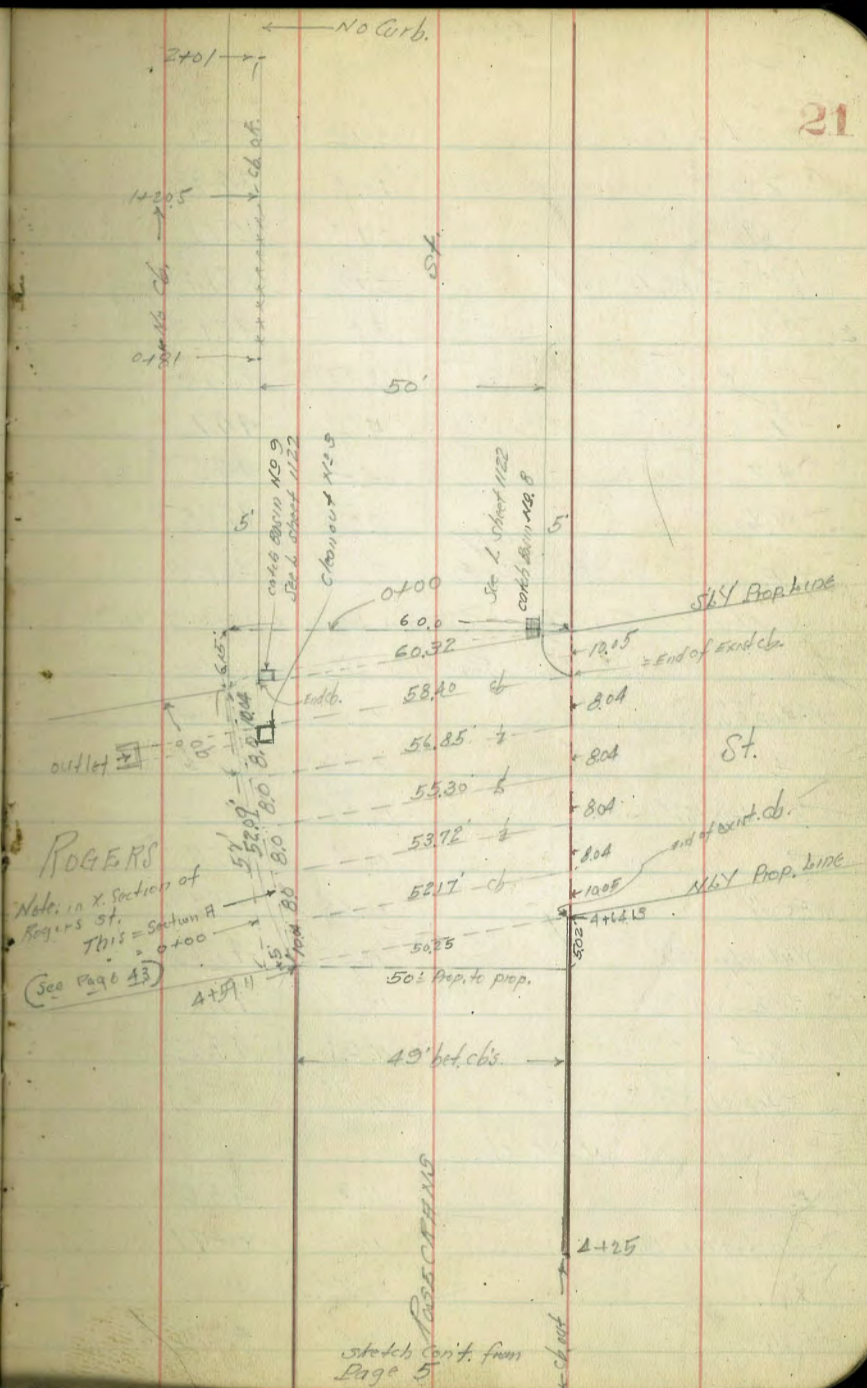
4112
4017

20

2 + 0.53 = End of cb. on West see sketch Page 5		
W	5.39	32.58
Gut.	6.1	34.9
+ L	6.9	34.1
+ 5	6.0	35.0
$\frac{1}{2}$	5.8	35.2
$\frac{1}{2}$	5.5	35.5
+ 5 on Par. West edge	546	35.51
$\frac{1}{4}$ " "	572	35.25
E Gut. on Paring	642	34.55
E Top cb.	6.00	34.97
2150		
E " cb.	4.26	36.71
" Gut. on Par.	4.70	36.27
$\frac{1}{2}$ " "	3.97	37.00
+ 7.25 " "	3.75	37.22
$\frac{1}{2}$	3.8	37.2
$\frac{1}{4}$	4.1	36.9
+ 5	3.8	37.2
+ 8	4.8	36.2
W on Ground	4.3	36.7
TP 12.10	48.93 49.08	36.93 36.98
3 + 0.58 = Beginning Good cb on West.		
W Top cb.	8.93	40.0
" Gut.	9.7	39.2
$\frac{1}{4}$	9.9	39.0

1908
1173

L	9.6	39.3
+5 on Paring	9.51	39.42
1/4 " "	9.75	39.18
E. Gut " "	10.43	38.50
" top cb.	9.96	38.97
3+50 = End Good cb. on West St. ch. Page 5		
E. top cb.	8.14	40.79
" Gut. on Paring	8.61	40.32
" 1/4 " "	7.96	40.97
+6.9. " "	7.76	41.17
L	7.8	41.1
1/2	8.2	40.7
W Gut	8.3	40.6
" top cb.	7.23	41.7
4+00		
W on Ground	6.0	42.9
+3	6.4	42.5
1/4	6.1	42.8
1/2	5.8	43.1
+5 on Paring	5.78	43.15
1/4 " "	6.04	42.89
E. Gut. " "	6.70	42.23
E. top cb.	6.25	42.68
4+25 on end cb. on West see sketch	4.38	44.55
4+50		
E. top cb.	4.25	44.68



4908

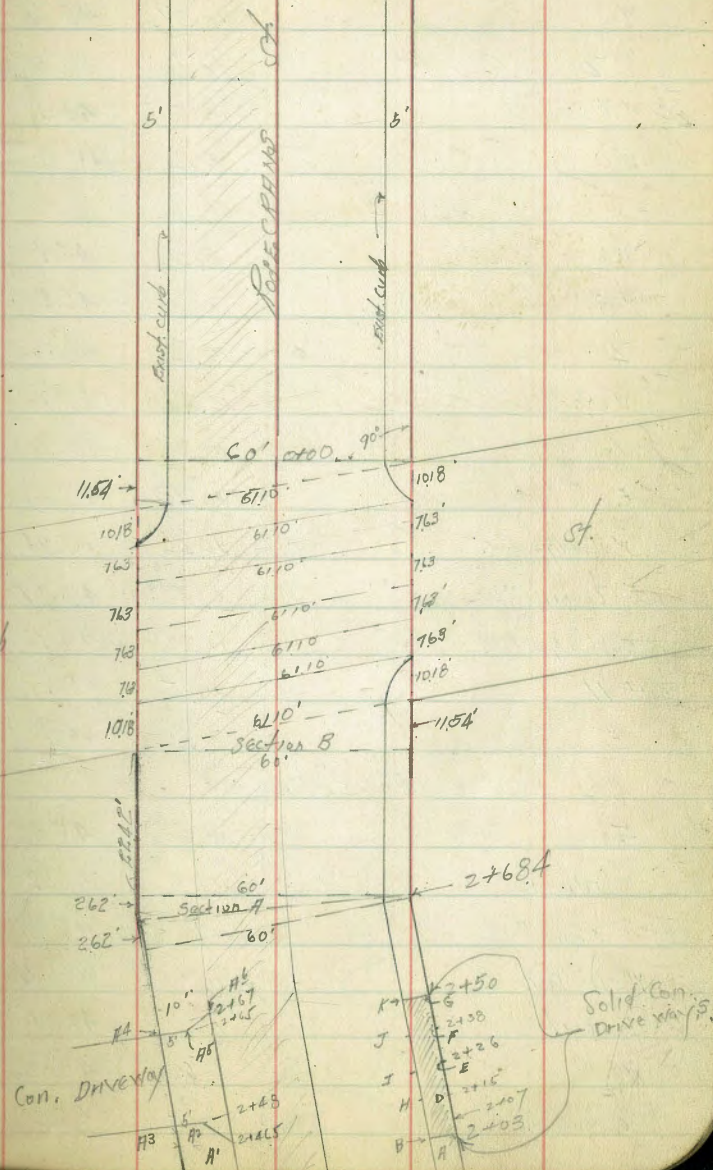
4713

E Gut on Pav.	3.72	45.21
$\frac{1}{4}$ " "	4.01	44.92
+69 " "	3.75	45.18
1025 = E Rail	3.79	45.14
$\frac{1}{2}$	3.8	45.1
-y "	3.77	45.16
$\frac{1}{2}$	4.2	44.7
+7	4.4	44.5
y top cb	3.28	45.65
+P	9.88	46.29
	56.17	46.29
	56.37	46.74
Note: in Cross Section of Intersection ROGERS is are $\frac{1}{4}$ of total length across st.		
Note: for location of RGS, turning		
NLY Line ROGERS Etc. See Sheet 1122		
y top cb	10.00	46.17
$\frac{1}{4}$	10.8	45.4
y top Rail	10.65	45.52
$\frac{1}{2}$	10.7	45.5
E " "	10.66	45.51
West edge Pav.	10.66	45.53
E $\frac{1}{4}$ on "	10.91	45.26
" Gut "	11.65	44.52
" top cb.	11.1	45.03
NLY - cb.		
E	11.2	45.0
E227 = East edge Pav.	11.38	44.79
$\frac{1}{2}$ on "	10.81	45.36
y edge " "	10.41	45.76

Sketch Cont.

Page 23

22

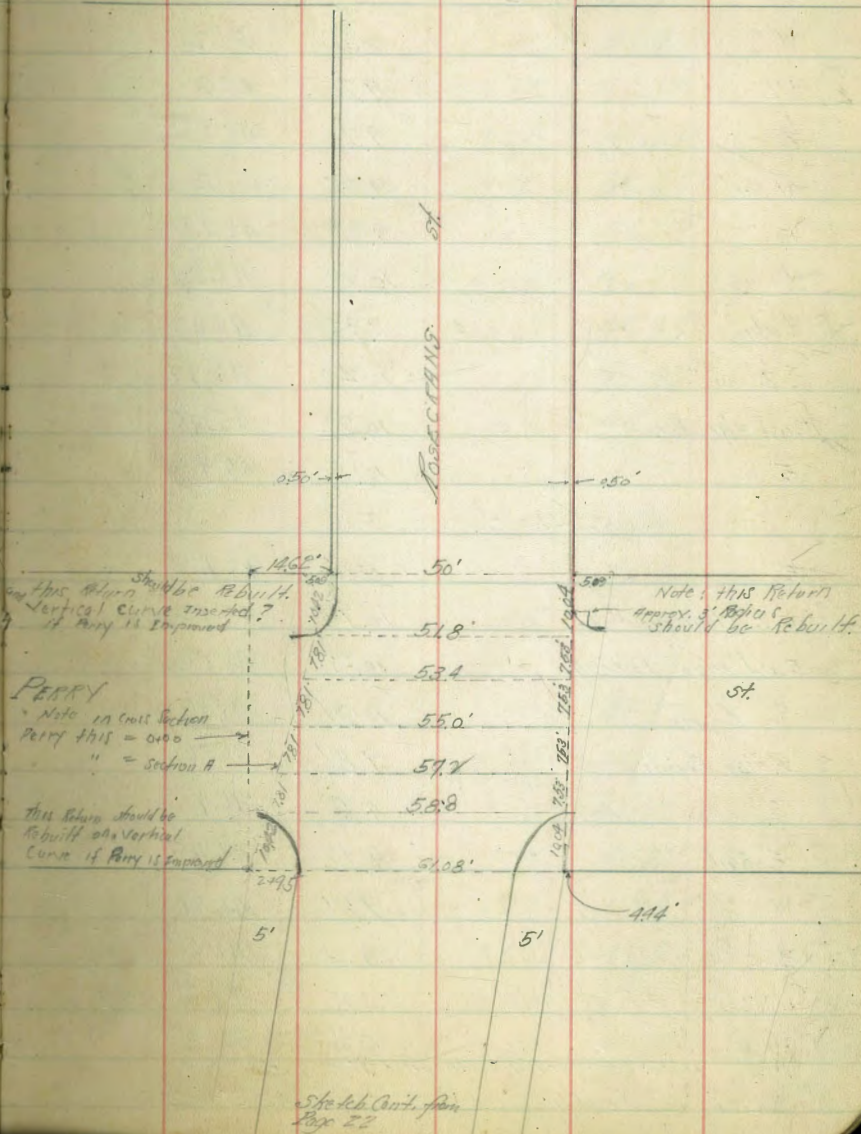


5637
5617

E Rail-	10.40	45.77
E	10.5	44.7
W "	10.39	45.78
" $\frac{1}{4}$	10.6	45.6
$\frac{1}{4} + 7$	10.5	45.7
W	8.2	48.0
WBY $\frac{1}{4}$		
W	8.3	47.9
+3	9.5	46.8
$\frac{1}{4}$	10.2	46.0
W Rail	10.21	45.96
E "	10.3	45.9
E "	10.23	45.94
West edge Pav.	10.26	45.91
E $\frac{1}{4}$ on "	10.70	45.47
East edge Pav.	11.24	44.93
$\frac{1}{4} + 11$	10.5	45.7
E	11.3	44.9
S ROGERS		
E	10.6	45.6
" Edge Pav.	11.08	45.09
" $\frac{1}{4}$ on "	10.58	45.59
W edge Pav.	10.11	46.06
E Rail	10.07	46.10
W "	10.05	46.12
$\frac{1}{4}$	9.9	46.3

OJVEN

23
57.



5632
5617

+7		9.6	46.6
W		8.7	47.5
	South $\frac{1}{4}$		
W		8.0	48.2
+2		9.2	47.0
$\frac{1}{4}$		9.7	46.5
W Rail		9.85	46.32
E "		9.88	46.29
$\frac{1}{2}$		10.0	46.2
W edge Pav.		9.94	46.23
E $\frac{1}{4}$ on "		10.40	45.77
East edge Pav.		10.82	45.35
E		10.8	45.4
	South cb.		
E		13.1	43.1
top of clean out #3		10.75	45.42
East edge Paving		10.55	45.52
" $\frac{1}{4}$ on "		10.31	45.86
W edge Paving		9.81	46.36
$\frac{1}{2}$		9.8	46.4
E Rail		9.72	46.45
W "		9.69	46.48
$\frac{1}{4}$		9.6	46.6
+13		8.9	47.3
W		7.9	48.3

Note: Beginning of South limb papers 5' c65
South 12.50 $\frac{1}{4}$ S

5637
5617

24

W		7.3	48.9
" top cb.		8.98	47.19
+15 on 2. Saled #8		8.94	47.23
$\frac{1}{4}$		9.3	46.9
W Rail		9.47	46.70
E "		9.51	46.66
$\frac{1}{2}$ on West edge Pav.		9.56	46.61
$\frac{1}{4}$ " Pav.		9.98	46.19
+7" East edge Pav.		10.38	45.79
+11.0 = ^{on top} East Basin #9		10.22	45.95
E top cb.		10.22	45.95
E		10.6	45.6
	0+00 see sketch Page 21		
E		10.8	45.4
+2		10.2	46.0
E top cb.		10.05	46.12
" Gut.		10.6	46.11
+5 on Paving		10.20	45.97
$\frac{1}{4}$ " "		9.79	46.38
$\frac{1}{2}$ " "		9.40	46.77
E Rail		9.36	46.81
W "		9.37	46.80
" $\frac{1}{2}$		9.2	47.0
W top cb.		8.98	47.19
"		7.3	48.9

0+50

56.37
56.17

56.32
56.17

24

25

W	6.2	50.0	
" Top cb.	6.57	49.60	
" Gut.	7.0	49.2	
+7	7.6	48.6	
$\frac{1}{4}$	7.2	49.0	
$\frac{1}{2}$ on Paring	6.98	49.19	
$\frac{1}{4}$ " "	7.35	48.82	
+7 " "	7.62	48.55	
E Gut.	8.0	48.17	
" Top cb.	7.46	48.75	
E	7.4	48.8	
{ +81 on end cb. on E +100	5.96	50.21	}
E	5.0	51.2	
cb.	5.2	51.0	
+5 on Av.	5.11	51.06	
$\frac{1}{4}$ " "	4.80	51.37	
$\frac{1}{2}$ " "	4.69	51.48	
$\frac{1}{4}$	4.8	51.4	
W Gut.	4.7	51.5	
" Top cb.	4.03	52.14	
W	3.4	52.8	
{ +20.5 = Beginning end cb +50	3.97	52.20	on E }
W	0.9	55.3	
" Top cb.	1.61	54.56	

W Gut.	2.1	54.1	
" $\frac{1}{4}$	2.0	54.2	
$\frac{1}{2}$ on Par.	1.93	54.24	
$\frac{1}{4}$ " "	2.30	53.87	
+7 " "	2.62	53.55	
E Gut.	2.9	53.3	
" Top cb.	2.43	53.74	
E	2.5	53.7	
T.P. 9.89	65.72 65.87	55.83 55.98	
	+100		
E	9.5	56.2	
" Top cb.	9.53	56.19	
" Gut.	10.3	55.4	
+5 on Par.	9.76	55.96	
$\frac{1}{4}$ " "	9.35	56.37	
$\frac{1}{2}$ " "	8.98	56.74	
$\frac{1}{4}$	9.3	56.4	
Gut.	9.1	56.6	
W Top cb.	8.64	57.08	
+03 on curb.	8.48	57.24	
+03 " Walk at Prop.	8.17	57.55	
+07 on curb.	8.26	57.46	
+09 on Walk at Prop. = Garage Floor.	7.00	58.72	
+15 = H.	8.33	57.39	
+15 at D = Garage Floor.	7.05	58.67	
+26 at I	7.35	58.37	

West side

6587
65.72

Garage		
2+26 qt E on Floor	6.37	59.35
+38 qt J	7.22	58.50
2+38 " F = Garage Floor	6.40	59.32
2+50		
qt G on Walk	6.14	59.58
yt top cb. = K	6.19	59.53
" Gut.	6.6	59.1
" $\frac{1}{4}$	6.8	58.9
yt Rail	6.76	58.96
E "	6.61	59.11
L on Pav.	6.53	59.19
$\frac{1}{4}$ " "	6.85	58.87
E edge Pav.	7.13	58.59
" cb. in Drive Way	6.82	58.90
E on " "	6.54	59.18
H ¹	7.27	58.51
H ²	6.92	58.80
H ³	6.56	59.16
H ⁴	6.11	59.61
H ⁵	6.32	59.40
H ⁶	6.39	59.33
2+68.4 Section H on split of Angle		
E	5.7	60.5
cb.	5.9	59.8
+5 on Pav.	6.18	59.54
$\frac{1}{4}$ " "	5.86	59.86

East side

6587
65.72

L on Pav.	5.50	60.22
+17 " West edge Pav.	5.45	60.27
+19 = E Rail	5.55	60.17
yt "	5.73	59.99
$\frac{1}{4}$	5.8	59.8
yt Gut.	5.8	59.8
" top cb.	5.27	60.45
yt	5.3	60.4
Section B = Pt B to Resections on E		
yt	4.3	61.4
" top cb.	4.12	61.60
Gut.	4.7	61.0
$\frac{1}{4}$	4.7	61.0
+35 = yt Rail	4.55	61.17
E "	4.41	61.31
+11.5 = yt edge Pav.	4.40	61.32
L on "	4.40	61.32
$\frac{1}{4}$ " "	4.71	61.01
+6.6 = East edge "	4.97	60.75
cb.	5.0	60.7
E	5.0	60.7
T.P. on SE BP Resections + Gull Hump	3.83	61.89
		62.04
		62.07 - 18M.
		0.03 = 18M.
		61.72 correction made here
		62.07 = Floor 811.
579	67.86	
N.B. Gull Hump	See sketch	Page 22
E	7.0	60.7

24.07.11

6786

6771

E. cb. on Ground	6.8	60.9
+5.9 on Paving (East edge)	6.84	60.87
E $\frac{1}{2}$ " "	6.77	60.94
E " "	6.25	61.46
+0.5 " West edge Paving	6.13	61.58
+3.85 = East Rail	6.09	61.62
West "	6.24	61.47
$\frac{1}{2}$	6.4	61.3
W End	6.2	61.5
" top cb.	5.56	62.15
W	5.5	62.2
North cb. Large Quatrough. S.		
W top cb. on End Return	5.45	62.26
" cb. on Ground	6.0	61.71
" $\frac{1}{2}$	6.2	61.51
+4.2 = W Rail	5.99	61.72
+9 = E Rail	5.83	61.88
+1.2 = West edge Paving	5.94	61.77
E on Pav.	5.95	61.76
E $\frac{1}{2}$ " "	6.27	61.44
+7 " East edge Pav.	6.61	61.10
E cb. on Ground	7.5	60.21
E	8.1	59.60
N $\frac{1}{2}$		
E	7.8	59.9
" cb.	7.1	60.6

6786

6771

27

E cb. + 5.5 = East edge Pav.	6.45	61.26
" $\frac{1}{2}$ on Paving	6.13	61.58
E " "	5.78	61.93
+0.3 " West edge Paving	5.77	61.94
+1.8 = E Rail	5.69	62.02
+8.4 = W "	5.82	61.89
W $\frac{1}{2}$	6.0	61.7
W cb.	6.0	61.7
W	5.8	61.9
E Quatrough		
W	5.6	62.1
cb.	5.9	61.8
W $\frac{1}{2}$	5.7	62.0
+4.4 = W Rail	5.67	62.04
+9.2 = E Rail	5.58	62.13
+12.5 = West edge Paving	5.62	62.09
E on Pav.	5.62	62.09
E $\frac{1}{2}$ " "	5.95	61.76
+7.4 = East edge Pav.	6.28	61.43
cb.	7.1	60.61
E	7.6	60.11
S $\frac{1}{2}$		
E	7.9	59.8
cb.	6.8	60.9
+5.5 on East edge Paving	6.12	61.59
E " Pav.	5.80	61.91

6786
6771

L on Paring	546	62.25
+0.2 = West edge Par.	546	62.25
+3.5 = E Rail	543	62.28
+8.3 = W "	550	62.21
$\frac{1}{2}$	55	62.21
cb.	59	62.17
W	55	62.21

S. ch. Qualtrough St.

W top ch. = end of Return	453	63.18
" cb.	60	61.71
$\frac{1}{2}$	54	62.31
+47 = W Rail	536	62.35
+9.5 = E "	532	62.39
L on West edge Paring	533	62.38
E $\frac{1}{2}$ " Paring	562	62.09
+7.6 = East edge Paring	596	61.75
E cb.	67	61.0
E on Ground at End Return	68	60.9
" " top ch. " "	580	61.91

S. ch. Qualtrough St.

E	73	60.4
+2	55	62.2
E top ch.	566	62.05
" Gut.	63	61.41
+5 = East edge Par.	577	61.94
E $\frac{1}{2}$ on Par.	545	62.26

6786
6771

28

L on Par. (West edge)	513	62.58
+34 = E Rail	516	62.55
+82 = W "	520	62.51
$\frac{1}{2}$	52	62.5
Gut	56	62.1
W top ch.	455	63.16
W	44	63.31

O + 00 = R. Δ to Reservoir S. ch. Qualtrough

W	44	63.31
" top ch.	455	63.16
" Gut.	56	62.11
$\frac{1}{2}$	52	62.51
+46 = W Rail	517	62.54
E "	512	62.59
L on Par.	502	62.69
$\frac{1}{2}$ " "	530	62.41
+75 " "	560	62.11
Gut	62	61.51
E top ch.	561	62.10
+4	55	62.21
E	77	60.0
+5	84	59.3
	O + 50	
-5	87	59.0
E	54	62.3
E top ch.	516	62.55

6786
67.71

E Gut	56	62.11
+5 on Pav.	5.30	62.41
$\frac{1}{2}$ " "	4.98	62.73
L	4.70	63.01
$\frac{1}{4}$	4.7	63.0
M Gut	5.0	62.7
" Top cb	4.22	63.49
"	3.8	63.9
	1400	
M	2.7	65.0
+4	3.1	64.6
M Top cb	3.90	63.81
" Gut	4.3	63.41
" $\frac{1}{4}$	4.4	63.3
L on Pav.	4.38	63.33
$\frac{1}{4}$ " "	4.64	63.07
17.5" "	4.95	62.76
E Gut	5.2	62.5
" Top cb	4.84	62.87
E	4.5	63.21
+5	4.6	63.11
	1450	
E	4.2	63.5
E Top cb	4.51	63.20
" Gut	4.9	62.8
+5 on Pav.	4.66	63.05

6786
67.71

$\frac{1}{2}$ on Pav.	4.32	63.39	29
$\frac{1}{2}$ " "	3.96	63.75	
$\frac{1}{4}$	4.0	63.7	
Gut	3.8	63.9	
M Top cb	3.57	64.14	
M	3.0	64.7	
	2400		
M	2.6	65.1	
" Top cb	3.20	64.51	
" Gut	4.0	63.7	
" $\frac{1}{4}$	3.8	63.9	
L on Pav.	3.70	64.0	
$\frac{1}{4}$ " "	3.96	63.75	
17.5" "	4.32	63.39	
E Gut	4.7	63.0	
E Top cb	4.19	63.52	
E	4.1	63.6	
	2450		
E	3.7	64.0	
" Top cb	3.84	63.87	
" Gut	4.3	63.4	
+5 on Pav.	3.95	63.76	
$\frac{1}{4}$ " "	3.64	64.07	
L " "	3.36	64.32	
$\frac{1}{4}$	3.5	64.2	
M Gut	3.5	64.2	

67.86
67.71

W Lap cb.	2.90	64.81
"	2.1	65.6
T.P. 4.56	69.27 69.42	64.71 64.86
cht. on N.E. B.P. Basecross & Perry	5.15	64.87
cht. on B.M. Quatrough & Basecross	7.34	62.08
		62.07 - BM Page 26
		0.01 - Error
2.95 = sta. on N.E. this section parallel to Perry		
Note: for this intersection see sketch Page 23		
" 2's are 1/2 of total dist as per sketch		
W	3.7	65.6
+5 on top cb	4.09	65.18
Gut.	4.7	64.6
1/2	4.6	64.7
+7.35 = W Rail	4.53	64.74
E Rail	4.63	64.64
1/2 = West edge Pav.	4.56	64.71
1/2 on Pav.	4.88	64.39
+5.3 = East edge Pav.	5.10	64.17
+10.6 = East Gut. at cb.	5.6	63.7
+10.6 = " top cb.	5.12	64.15
E	5.1	64.2
N cb.		
E	5.5	64.8
+8.8 = East edge Pav.	5.05	64.22
1/2 on Pav.	4.81	64.46
+14.2 = West edge Pav.	4.55	64.72
1/2	4.6	64.7

69.42
69.27

30

1/2 + 2.5 = East Rail	4.61	64.66
W "	4.50	64.77
1/2	4.60	64.67
+1.0	4.4	64.9
W	3.0	66.3
N 1/2		
W	3.0	66.3
+1	4.0	65.3
1/2	4.5	64.8
+6.7 = W Rail	4.50	64.77
E Rail	4.63	64.64
1/2 + 0.6 = West edge Pav.	4.59	64.68
1/2 on Pav.	4.80	64.47
+16.6 = East edge Pav.	5.02	64.25
E	5.5	63.8
1/2		
E	5.4	63.9
+6.4 = E edge Pav.	5.02	64.25
1/2 on Pav.	4.77	64.50
+12.8 = West edge Pav.	4.60	64.67
1/2	4.6	64.7
+2.4 = E Rail	4.67	64.60
W Rail	4.50	64.77
1/2	4.6	64.7
+1.8	4.0	65.3
W	2.8	66.5

6942
69.27

S 1/4

	2.6	66.7
+5	4.2	65.1
1/2	4.5	64.8
+6.6 = N Rail	4.52	64.75
E "	4.71	64.56
1/2	4.6	64.7
+14 = West edge Pr.	4.61	64.66
1/4 on Pr.	4.87	64.40
+8 = East edge Pr.	5.15	64.12
E	5.3	64.0

S cb.

E on top cb.	5.13	64.14
+4 = East edge Pr.	5.33	63.94
1/4 on Pr.	1.98	64.29
+12.0' = West edge Pr.	4.65	64.62
1/2	4.8	64.5
+14 = E Rail	4.77	64.50
N "	4.59	64.68
1/4	4.6	64.7
+7	4.5	64.8
N on Ground	3.1	66.2
" " top cb.	4.10	65.17

S line Perry = 0+00
Note: from here to East
Line 2.5 cbs. 12.25 7.5

N on Ground	2.4	66.9
" " top cb.	4.16	65.11

6942
69.27

31

+1	4.5	64.8
1/4	4.6	64.7
+6.8 = N Rail	4.77	64.50
E "	4.98	64.29
1/2	5.0	64.3
+2.6 = West edge Pr.	4.83	64.44
1/4 on Pr.	5.18	64.19
+10.3 = East edge Pr.	5.69	63.58
E Gut.	5.8	63.5
" top cb.	5.18	64.09

0+25

E top cb.	6.47	62.80
" Gut.	7.0	62.3
+3.7 = East edge Pr.	6.67	62.60
1/4 = on Pr.	6.26	63.01
+11.4 = West edge Pr.	5.92	63.35
1/2 on Pr.	6.0	63.27
+2.5 = E Rail	6.04	
N "	5.82	63.45
1/2	5.6	63.7
N Gut.	5.8	63.5
" top cb.	5.35	63.92
" on Ground	4.2	65.1
T.P.	0.84	63.24

63.09

63.24

0+50

N on Ground	0.0	
-------------	-----	--

6324
6309

XI Top cb.	0.35	62.74
Gut	0.6	62.5
$\frac{1}{2}$	0.7	62.4
+1.4 = Y Riv	0.87	62.22
E "	1.03	62.06
$\frac{1}{2}$ on Pav	0.92	62.17
$\frac{1}{2}$ " "	1.34	61.75
+7.5 " "	1.70	61.39
E Gut	2.1	61.0
" top cb.	1.50	61.59
" " " 0+7.5	2.71	60.38
" Gut	3.4	59.7
+4.5 = Pav.	2.90	60.19
$\frac{1}{2}$ on Pav.	2.49	60.60
$\frac{1}{2}$ " "	2.16	60.93
$\frac{1}{2}$	2.1	61.0
Gut	1.8	61.3
XI Top cb.	1.55	61.54
" on ground	1.1	62.0
" " " 1+0.0	1.9	61.2
" top cb.	2.91	60.18
" $\frac{1}{2}$	3.3	59.8
$\frac{1}{2}$ on Pav.	3.43	59.66
$\frac{1}{2}$ " "	3.81	59.28

Note: All cut on West is covered with dirt from bank. Only stations at 25' unground for Elk. The rest assumed to be a.K.

6324
6324

32

+7.75 = Pav.	4.20	58.89
E Gut	4.5	58.6
" top cb.	4.03	59.06
" " " 1+2.5	5.27	57.82
" Gut	5.9	57.2
" Pav.	5.42	57.67
$\frac{1}{2}$ "	5.02	58.07
$\frac{1}{2}$ on "	4.68	58.41
$\frac{1}{2}$	4.6	58.5
XI Gut	4.0	59.1
" top cb.	4.16	58.93
" on ground	3.7	59.9
" " " 1+5.0	4.21	58.9
" top cb.	5.41	57.68
+3	5.3	57.8
$\frac{1}{2}$	6.0	57.1
$\frac{1}{2}$ on Pav.	5.91	57.18
$\frac{1}{2}$ " "	6.28	56.81
+7.75 " "	6.67	56.42
E Gut	7.0	56.1
" top cb.	6.54	56.55
" " " 1+7.5	7.77	55.32
" Gut	8.3	64.8

6324
63.09

+ 4.5 = Pav.	7.92	55.17
$\frac{1}{2}$ on "	7.51	55.58
$\frac{1}{2}$ " "	7.12	55.97
$\frac{1}{4}$	7.2	55.9
+ 9	6.7	56.4
W top cb.	6.67	56.42
" on Ground.	5.4	57.7
" " "	2+00	
" " "	6.7	56.4
" top cb.	7.92	55.17
+ 2	8.0	55.1
$\frac{1}{4}$	8.4	54.7
E on Pav.	8.39	54.70
$\frac{1}{2}$ " "	8.79	54.30
+ 7.75 " "	9.18	53.91
E Gut.	9.5	53.6
" top cb.	9.05	54.04
" " "	2+25	
E " "	10.32	52.87
" Gut	10.7	52.4
+ 4.5 = Pav.	10.46	52.63
$\frac{1}{2}$ on "	10.06	53.03
$\frac{1}{2}$ " "	9.69	53.40
$\frac{1}{4}$	9.8	53.3
W top cb.	9.15	53.94

2+50

6324
63.09

33

W top cb.	10.42	52.67
" $\frac{1}{2}$	11.0	52.1
+ 4.4 = W Rail	11.00	52.09
E "	11.06	52.03
E on Pav.	10.95	52.14
$\frac{1}{2}$ " "	11.31	51.78
+ 7.75 " "	11.70	51.39
E Gut	12.1	51.0
" top cb.	11.48	51.61
7P.	1.72	53.08
" " "	2+75	
E top cb.	2.52	50.41
" Gut.	2.2	50.7
" top Pav.	2.71	50.22
$\frac{1}{2}$ " "	2.30	50.63
E on Pav.	1.98	50.95
E Rail	1.96	50.97
W "	2.00	50.93
$\frac{1}{4}$	1.7	51.2
W top cb.	1.47	51.46
W on Ground.	1.7	51.7
3+00 = N.W. Overpass		
W top cb.	2.75	50.18
" Pav. at cb.	2.75	50.18
" $\frac{1}{4}$ on Pav.	3.14	49.79
W Rail	3.10	49.83

Intersection Paved with exception
of Car Track

Note: Fire Hydrant
at NE. Corner
of Owens
3' North P.C. on
Rose crans

5308

5293

E Rail	309	49.84
Lo on Pav.	373	49.70
1/2 "	354	49.39
E. Gut. = Flow line Inlet	481	48.12
E top cb.	381	49.12
chk. on S.E. BP base cross + owners	486	49.07 48.27 48.07 = 5M. 0.15 = diff.
S line Owens = 0100		
E top cb.	483	48.10
" Gut. on Pav.	572	47.21
1/2 " "	488	48.05
Lo " "	450	48.43
E Rail	445	48.48
" "	445	48.48
1/2	451	48.42
W Gut. on Pav.	470	48.23
" top cb.	384	49.09
" " "		
" " "	410	48.83
" Gut	50	47.9
1/2	47	48.2
W Rail	471	48.22
E "	469	48.24
Lo on Pav.	461	48.32
1/2 " "	494	47.99
+775 " "	531	47.62

5308

5293

34

E Gut	55	47.4
E top cb.	515	47.78
		0+50
E " "	586	47.07
" Gut	62	46.73
" Pav. +45	607	46.86
1/2 on Pav.	570	47.23
Lo " "	536	47.57
1/2	56	47.3
W Gut.	57	47.2
" top cb.	487	48.06
		1+00
" " "	596	46.97
" Gut	70	45.9
1/2	65	46.4
Lo on Pav.	643	46.50
1/2 " "	678	46.15
+775 on "	718	45.75
E Gut.	74	45.5
" top cb.	694	45.99
		1+50
" " "	807	44.86
" Gut	86	44.3
" " +45 Pav.	822	44.71
1/2 on "	786	45.07

5308
52.93

L on Pav.		7.55	45.38
1/4		7.5	45.4
W Gut		7.9	45.0
" top cb.		7.05	45.88
T.P.	1.20	46.55	773 45.35
	2+00		
W top cb.		159	44.81
" Gut		2.5	43.9
" 1/4		2.1	44.3
L on Pav.		2.09	44.31
1/4 " "		2.39	44.01
+ 775 " "		2.78	43.62
E Gut		3.2	43.2
" top cb.		2.60	43.80
	2+50		
" " "		3.69	42.71
" Gut		4.1	42.3
+ 4.5 on Pav.		3.82	42.58
1/4 " "		3.47	42.93
1/2 " "		3.13	43.27
1/4		3.4	43.0
W Gut		3.3	43.1
" top cb.		2.68	43.72
3 to 0 = N.W. Nichols			
W top cb.		3.72	42.68
" on Ground		3.1	43.3

Note: No curb returns in on West
Curb steps at line 12.50' curbs

4655
46.40

35

1/4		4.2	42.2
W Pav.		4.20	42.2
E "		4.21	42.19
L on Pav.		4.16	42.24
1/2 " "		4.56	41.84
E Gut, on pav.		5.24	41.16
" top cb.		4.74	41.66
cb. on N.W. RR. Returns + Nichols		4.73	41.87 21.63 - 814
	N cb.		
E line, on Pav.		5.40	41.0
" 1/2 " "		4.74	41.66
E " "		4.30	42.10
E Pav.		4.44	41.96
W "		4.44	41.96
1/4		4.2	42.2
W		2.7	41.70
	E Nichols		
W		3.1	43.3
+ 2		3.7	42.7
1/2		4.3	42.1
W Pav.		4.62	41.78
E "		4.60	41.80
L on Pav.		4.48	41.92
1/4 " "		4.87	41.53
E " "		5.60	40.80

Notes: E half of Intersection paved.

46.55
46.40

E. on Paring	5.71	40.69
" 1/2 "	4.97	41.43
1/2 "	4.65	41.75
E. Par.	4.80	41.6
W. "	4.80	41.6
" 1/4 "	4.5	41.9
+9	4.2	42.2
W	3.5	42.9
Shine nichols = 0+00		
W top cb.	4.28	42.12
" on Ground	3.6	42.8
+3	4.5	41.9
1/4	4.6	41.8
W Par.	4.86	41.54
E "	4.89	41.51
1/2 on Par.	4.78	41.62
1/2 " "	5.12	41.28
E Gut. on Par.	5.78	40.62
" top cb.	5.25	41.15
0+50		
" " "	5.9	40.46
" Gut.	6.3	40.1
+4.5 = Par.	6.20	40.2
1/2 on "	5.83	40.6
1/2 " "	5.45	40.95

Note.

Fire Hydr.
S.E. Nichol
+ Forecourt
P. on Nichol46.55
46.40

36

1/2 on "	5.5	40.9
Gut.	5.4	41.0
W top cb.	4.94	41.46
" on Ground.	4.0	42.4
1+00		
" " "	4.5	41.9
" top cb.	5.62	40.78
Gut.	6.3	40.1
1/2	6.2	40.2
E on Par.	6.11	40.29
1/2 " "	6.47	39.93
+7.5 " "	6.81	39.59
E Gut.	7.0	39.4
" top cb.	6.58	39.82
1+50		
" " "	7.27	39.13
" Gut	7.6	38.8
+4.5 on Par.	7.49	38.91
1/2 " "	7.13	39.27
1/2 " "	6.80	39.60
1/2	7.0	39.40
Gut.	6.6	39.8
W top cb.	6.27	40.13
" on Ground.	5.5	40.9
2+00		
" top cb.	6.90	39.50

4655
4640

N Gut	7.8	38.6
" 1/2	7.7	38.7
1/2 on Pav.	7.46	38.94
1/2 " "	7.84	38.56
+7.75 " "	8.23	38.17
E Gut	8.3	38.1
" top cb.	7.92	38.48
2+50		
E " "	8.60	37.80
" Gut.	8.9	37.5
+ 4.5 = Pav.	8.92	37.48
1/2 on "	8.54	37.86
1/2 " "	8.16	38.24
1/2	8.2	38.2
Gut	8.3	38.1
N top cb.	7.58	38.82
2+85		
" " "	8.13	38.27
" Gut.	8.6	37.8
" 1/2	8.6	37.8
1/2 on Pav.	8.67	37.73
1/2 " "	9.03	37.37
+7.75 " "	9.44	36.96
E Gut.	9.6	36.8
" top cb.	9.25	37.15

341
T.P. on N.Y. B.P. Precinct - N 1/2 1/4

41.57
41.74

8.22
~~58.33~~
38.14 = 877

4174
4157

3+00 = N.W. McCall St. Intersection Road ^{Exception} of Car trucks

E top cb.	4.62	36.97
" Gut Flow Jctt. on Pav.	5.82	35.77
+1.5 " " "	5.82	35.77
+1.5 on Pav.	4.62	36.97
1/2 " "	4.25	37.34
1/2 " "	4.01	37.58
E Rail	3.94	37.65
N " "	3.94	37.65
1/2 on Pav.	3.84	37.75
+10.75 " "	3.45	38.14
+10.75 on Flow Line Inlet	4.50	37.09
N Gut " " " "	4.50	37.09
" top cb.	3.44	38.15
S.W. McCall = 0+00		
" " "	3.97	37.62
" " Pav. top cb.	4.85	38.64
1/2 on "	4.33	37.26
W Rail	4.52	37.07
E " "	4.52	37.07
1/2 on Paving	4.48	37.11
1/2 " "	5.05	36.54
E Gut.	5.90	35.69
" top cb.	5.00	36.59

0+50

5.28 36.31

4174
4159

E Gut		58	35.80
+4.5 = Pav.		541	36.18
$\frac{1}{2}$ on "		502	36.57
$\frac{1}{2}$ " "		465	36.94
$\frac{1}{4}$		48	36.8
Gut		46	37.0
W top cb.		423	37.36
" " "	1+00		
" Gut.		451	37.08
$\frac{1}{2}$		50	36.59
$\frac{1}{2}$		50	36.59
$\frac{1}{2}$ on Pav.		493	36.66
$\frac{1}{2}$ " "		525	36.34
+7.75 " "		566	35.93
E Gut.		59	35.7
" top cb.		557	36.02
" " "	1+50		
" Gut		580	35.79
+4.5 = Pav.		6.2	35.4
$\frac{1}{2}$ on "		591	35.68
$\frac{1}{2}$ " "		536	36.03
$\frac{1}{2}$		521	36.38
Gut		54	36.2
W top cb.		54	36.2
" " "	2+00	476	36.83

4174
4159

W top cb.		501	36.58	38
" Gut.		55	36.1	
$\frac{1}{2}$		54	36.2	
$\frac{1}{2}$ on Pav.		542	36.17	
$\frac{1}{2}$ " "		580	35.79	
+7.75 " "		620	35.39	
Gut.		64	35.2	
E top cb.		608	35.51	
" " "	2+50			
" Gut.		636	35.23	
+4.5 = Pav.		6.8	34.8	
$\frac{1}{2}$ on "		650	35.09	
$\frac{1}{2}$ " "		609	35.50	
$\frac{1}{2}$		574	35.85	
Gut.		57	35.9	
W top cb.		58	35.8	
" " "	2+8.5	523	36.36	
" Gut		539	36.20	
$\frac{1}{2}$		6.0	35.6	
$\frac{1}{2}$		58	35.8	
$\frac{1}{2}$ on Pav.		592	35.67	
$\frac{1}{2}$ " "		625	35.34	
+7.75 " "		660	34.99	
Gut		6.8	34.8	
E top cb.		645	35.14	

41.74
41.57

3+00-N.W. LAWRENCE St

Intersection
Paved exception
at tracks

1/4 top cb.	6.57	35.02
" Gut = Flow Line Inlet on Pav.	7.58	34.01
+15 " " " " "	7.58	34.01
1.5' on Pav.	6.59	35.0
1/2 " "	6.16	35.43
1/4 " "	5.96	35.63
+10' on " (Settled)	5.81	
E. Roll	6.16	35.43
1/4 " "	6.08	35.57
1/2 on Pav.	5.73	35.86
+10.75 on "	5.52	36.07
+10.75 " Flow Line Inlet on Pav.	6.49	35.10
1/4 Gut " " " "	6.49	35.10
" top cb.	5.50	36.09
T.R.	3.97	39.71
	39.71	6.00
S.W. LAWRENCE = 0+00		
1/4 top cb.	3.45	36.11
" Guts on Paving	4.27	35.29
1/2 " "	3.95	35.61
+22.5 " "	4.00	35.56
1/4 Pav.	4.13	35.43
E "	4.15	35.41
1/2 on Pav.	4.10	35.46
1/4 " "	4.54	35.02
E Gut, on Pav.	5.28	34.28
" top cb.	4.48	35.08

34.56

35.74

Note: 6" Gumbo Iron
Walt on West

Note: 2"
Iron Pipe for
Fire Hood
S.E. Cor. LAWRENCE
Intersects at
PC. on Pavement

39.71
39.12

0+50

39

E top cb.	4.75	34.81
" Gut	5.4	34.16
+4.5 on Pav.	4.91	34.65
1/4 " "	4.53	35.03
1/2 " "	4.23	35.33
1/4 " "	4.5	35.06
Gut	4.7	34.86
top cb.	3.71	35.85
	1+00	
1/4 top cb.	3.95	35.61
" Gut.	4.8	34.76
1/4 " "	4.6	34.96
1/2 on Pav.	4.45	35.11
1/4 " "	4.80	34.76
+7.75 " "	5.17	34.39
Gut	5.5	34.1
E top cb.	5.00	34.56
	1+50	
" " "	5.2	34.32
" Gut.	5.7	33.9
+4.5 = Pav.	5.38	34.18
1/4 on "	5.03	34.53
1/2 " "	4.72	34.84
1/4 " "	4.9	34.7
1/4 Gut.	5.1	34.5

3971
3956

W. top ch.	4.21	35.35
" " "	2+00	
" " "	4.45	35.11
" Gut.	5.0	34.6
" $\frac{1}{2}$	5.1	34.5
" $\frac{1}{2}$ on Par.	4.98	34.58
" " "	5.29	34.27
" +775 " "	5.66	33.90
" Gut	5.95	33.7
" top ch.	5.53	34.03
" " "	2+50	
" " "	5.73	33.83
" Gut	6.2	33.4
" +45 = Par.	5.91	33.65
" $\frac{1}{2}$ on	5.55	34.01
" $\frac{1}{2}$ "	5.20	34.36
" $\frac{1}{2}$	5.3	34.3
" Gut.	5.4	34.2
" top ch.	4.70	34.86
" $\frac{1}{2}$ top ch.	3+00 = N.W. Kellogg St.	Intersection Paved exception - Cur tracks
" $\frac{1}{2}$ top ch.	2+85	
" $\frac{1}{2}$ top ch.	4.92	34.64
" Gut	5.3	34.3
" $\frac{1}{2}$	5.3	34.3
" $\frac{1}{2}$ on Par.	5.39	34.17

3971
3956

40

" $\frac{1}{2}$ on Par.	5.68	33.88
" +775 " "	6.03	33.53
" Gut	6.0	33.6
" E. top ch.	5.87	33.69
" " "	3+00 = N.W. Kellogg St.	Intersection Paved With the exception of Gut
" " "	5.99	33.57
" Gut on Flow Inlet on Par.	6.97	32.59
" +15 " " " " "	6.97	32.59
" +15 " top Par.	5.98	33.58
" $\frac{1}{2}$ " " "	5.68	33.88
" $\frac{1}{2}$ " " "	5.44	34.12
" E. Rail	5.43	34.13
" W "	5.42	34.14
" +10 = on Par.	5.40	34.16
" $\frac{1}{2}$	5.28	34.28
" +10.75 on Par.	5.03	34.53
" +10.75 = Flow line Inlet on Par.	6.20	33.36
" Gut " " " " "	6.20	33.36
" W top ch.	5.00	34.56
" Chk. N.E. SP. Intersection + Kellogg	5.97	33.59 33.74 33.60 = 241 0.14 34.21
" T.P.	5.23	37.66
" S.W. Kellogg St. = 0+00	5.28	34.43
" W top ch.	4.92	34.59
" Gut = Flow line Inlet	6.07	33.44
" +15 = " " "	6.07	33.44

29.66
37.57

+1.5 on Pav.	498	34.53
1/2 " "	529	34.22
+2.25 " "	537	34.14
W Rail	548	34.03
E "	550	34.01
L on Pav.	545	34.06
1/2 " "	571	33.80
+10.75 on Paving	591	33.60
+10.75 = Above Line Inlet	696	32.55
E Gut " " "	696	32.55
" top cb.	597	33.54
" " " 0+15		
" " "	582	33.69
" Gut	64	33.1
+4.5 = Pav.	600	33.51
1/2 on "	565	33.86
L " "	532	34.19
1/2	53	34.21
W Rail	52	34.31
" top cb.	482	34.69
" " " 0+50		
" " "	461	34.90
" Gut	52	34.31
" 1/2	52	34.31
L on Pav.	515	34.36
1/2 " "	544	34.07

39.66
37.57

41

+7.75 on Pav.	578	33.73
E Gut	60	33.51
" top cb.	558	33.93
" " " 1+00		
" " "	531	34.20
" Gut	55	34.01
+4.5 = Pav.	550	34.01
1/2 on "	513	34.38
L " "	482	34.69
1/2	50	34.51
W Rail	50	34.51
" top cb.	433	35.18
" " " 1+50		
" " "	403	35.48
" Gut on Pav.	488	34.63
1/2 " "	463	34.88
+2.25 " "	462	34.89
W Rail	454	34.97
E "	455	34.96
L on Pav.	456	34.95
1/2 " "	486	34.65
E Gut	557	33.99
" top cb.	496	34.55
" " " 1+85.23 see L sheet 1122		
" " "	480	34.71
" Gut on Pav	527	34.24

39.66
39.57

				elev
1/2 on Pav.	4.71			34.80
1/2 " "	4.37			35.14
1/2 " "	4.38			35.17
N. Gilt. on Pav.	4.66			34.85
" top ch. in Drive way	4.66			34.85
N top ch. U.S. Galt. line	3.45			36.06
E " " " " "	4.47			35.04
TP	6.83	4.26	5.23	34.43
TP on RR N.W. McCull + Rosecrans	2.95			39.01 Page 37
TP chk. on N.E. RR Rosecrans + Yellow Page 40	6.27	40.70	5.23	34.43
TP	10.18	48.50	2.38	38.32 Page 37
TP	1.59	49.78	0.31	48.19
TP	0.95	38.44	12.29	37.49
TP	1.02	27.50	11.96	26.48
TP	12.86	32.92	7.44	20.06
TP	10.59	43.16	0.35	32.57
TP	0.23	30.84	12.55	32.61
TP	1.15	20.07	11.92	18.92
chk. on RR Bessemer + Rosecrans	5.88			14.19
TP	2.80	19.07	7.80	11.27
TP	4.55	10.47	9.15	5.92
TP	4.37	11.37	3.52	6.95
TP	3.12	7.51	6.93	4.39
chk. on SW RR Rosecrans + Carleton	6.65			0.86

See opposite page for these levels

SW RR Rosecrans + Canon Rd.

39.66
39.57

TP	6.27	40.70	5.23	34.43
chk. on NE RR Rosecrans + Yellow Page 40			6.96	33.74
TP	10.18	48.50	2.38	38.32
TP	11.97	60.16	0.31	48.19
TP	9.21	69.10	0.27	59.89
chk. N.E. RR Rosecrans + Perry Page 20			4.87	64.73
TP	1.59	63.64	7.05	67.05
TP	0.95	52.30	12.29	51.35
TP	1.02	41.36	11.96	40.34
TP	12.86	46.78	7.44	33.92
TP	10.59	57.02	0.35	46.43
SW RR Rosecrans + McCull St				
SE " " " " + Owens " Page 34				
TP	0.23	44.70	12.55	42.47
TP	1.15	33.93	11.92	32.78
chk. Rosecrans + Bessemer			5.88	28.05
TP	2.80	28.93	7.80	26.13
TP	4.55	24.33	9.15	19.78
TP	4.37	25.18	3.52	20.81
TP	3.12	21.37	6.93	18.75
chk. on SW RR Rosecrans + Carleton			6.65	14.77

SW RR Rosecrans + McCull St Page 37
SE RR Rosecrans + Owens Page 34

SE RR Rosecrans + Quailthrough Page 26

SW RR Rosecrans + Canon Rd. Page 1

16.55 - RM.
0.17 = diff.

Note: Concluded that RM. SW Rosecrans and Canon Rd. whose recorded elev. = 20.65 is o.k. and that E.M.s at Rosecrans + Bessemer and Rosecrans and Quailthrough are High.

Y6 Map
 Topographic
 1-16-28

Cross Section ROGERS (52' side)
 Bet. Sections & Bay

Note:
 Actual
 width of
 st. varying

10' cbs
 8' 78

Syll. B.P. - number
 of
 sections
 & quadrants

	1.59	63.48		61.89	+3	4.7	42.5
T.P.	0.95	52.14	12.9	51.19	cb.	3.4	43.8
T.P.	6.99	47.17	11.96	40.18	N	+3	42.9
					+5	4.0	43.2

Section # Page 21

N top cb.		2.14	45.03
cb.		2.2	45.0
2		2.4	44.8
2		1.6	45.6
2		1.8	45.4
+4		5.1	42.1
cb.		4.0	43.2
+4		3.8	43.4
+6		1.9	45.3
5		1.8	45.4

0+00 Page 21

-10'		2.0	45.2
5		1.8	45.4
+4		2.0	45.2
+6		3.8	43.4
cb.		5.0	42.2
+4		5.5	41.7
1/4		2.6	44.6
2		2.0	45.2
+4		4.6	42.6
1/4		4.3	42.9

Plotted Jan. 16-29 C.B.H.

47.17

43

-10		8.5	38.7
N		8.6	38.6
cb.		9.0	38.2
+5		9.1	38.1
1/4		9.0	38.2
2		7.2	40.0
1/4		6.5	40.7
+2		7.4	39.8
cb.		7.5	39.7
5		6.0	41.2
+10		6.5	40.7

0+07

0+17

-15		12.1	35.1
5		12.0	35.2
cb.		10.8	36.4
+6		10.8	36.4
1/4		11.4	35.8
2		12.2	35.0
1/4		12.7	34.5
cb.		12.6	34.6
N		12.5	34.7

47.17

+15		17.4	34.8
TP	0.83	35.34 ^v	12.66 34.51
	0+25		
-15		2.5	32.8
-7		1.9	33.4
N		2.6	32.7
cb.		3.2	32.1
$\frac{1}{2}$		3.0	32.3
$\frac{1}{2}$		2.5	32.8
+7		5.2	30.1
$\frac{1}{2}$		4.4	30.9
+7 on top Cor. Iron Drain		3.0	32.3
cb.		3.3	32.0
+6		2.8	32.5
S		2.6	32.7
+15		2.6	32.7
	0+30		
-15		2.7	32.6
-7		4.2	31.1
S		5.3	30.0
+3		6.6	28.7
cb.		5.8	29.5
+6		6.2	29.1
$\frac{1}{2}$		7.0	28.3
+4		5.9	29.4
$\frac{1}{2}$		6.4	29.9

3534

44

+15		5.3	30.0
$\frac{1}{2}$		5.2	30.1
cb.		5.6	29.7
N		5.9	29.4
+15		4.6	
	0+39 = End of outlet		L sheet 1122
-15		6.6	28.7
N		7.5	27.8
cb.		7.1	28.2
$\frac{1}{2}$		7.0	28.3
+3		8.2	28.1
$\frac{1}{2}$		7.1	28.2
$\frac{1}{2}$		7.6	27.7
+2		8.1	27.2
+7 on top Cor. at outlet		7.40	27.9
+7 " Floor Line "		9.20	26.1
cb.		7.4	27.9
+4		7.9	27.4
S		6.1	29.2
+15		5.3	30.0
	0+53		
-15		8.0	
S		8.3	28.0
+5		8.8	26.5
cb.		10.2	25.1
$\frac{1}{2}$		10.4	24.9

3534

+4		10.5	24.8
$\frac{1}{2}$		10.0	25.3
$\frac{1}{4}$		9.7	25.6
cb.		9.4	25.9
N		9.4	25.9
+15		8.4	26.9
	0472		
-15		11.7	23.6
N		12.2	23.1
cb.		12.3	23.0
$\frac{1}{4}$		12.7	22.6
$\frac{1}{2}$		12.7	22.6
$\frac{1}{4}$		12.5	22.8
cb.		13.0	22.3
S		13.0	22.3
+15		13.4	21.9
T.P.	0.60 23.31	12.63	22.71
	0+81		
-10		3.9	19.4
S		3.9	19.4
cb.		3.1	20.2
$\frac{1}{4}$		2.3	21.0
$\frac{1}{2}$		2.5	21.8
$\frac{1}{4}$		3.0	20.3
cb.		2.4	20.9
N		1.7	21.6

2331

+10		2.0	21.3	45
	0+97			
-10		5.4	17.9	
N		5.2	18.1	
cb.		5.0	18.3	
$\frac{1}{2}$		4.9	18.4	
$\frac{1}{4}$		4.5	18.8	
$\frac{1}{4}$		4.6	18.7	
cb.		4.5	18.8	
S		4.7	18.6	
+10		5.0	18.3	
	1+10			
-10		7.8	15.5	
S		7.0	16.3	
cb.		6.0	17.3	
$\frac{1}{4}$		5.5	17.8	
$\frac{1}{2}$		5.0	18.3	
$\frac{1}{4}$		5.0	18.3	
cb.		5.3	18.0	
N		5.4	17.9	
+10		5.4	17.9	
	1+15			
-10		5.9	17.4	
-5		10.3	13.0	
N		6.0	17.3	
cb.		6.5	16.8	

2331

1/2		6.4	16.9
1/2		6.4	16.9
1/2		6.9	16.4
+1		10.5	12.8
cb.		12.3	11.0
+5		11.5	11.8
+6		7.7	15.6
5		7.9	15.4
+1		11.4	11.9
+7		11.4	11.9
+8		8.4	14.9
+10		8.4	14.9
	1+21		
-12		10.1	13.2
-10		13.0	10.3
-7		14.7	8.6
-3		10.7	12.6
5		9.4	13.9
+6		9.1	14.2
cb		13.2	10.1
+4		13.3	10.0
1/2		12.2	11.1
+3		11.8	11.5
+4		8.2	15.1
1/2		8.0	15.3
1/4		7.4	15.9

2331

cb.		7.2	16.1
+5		7.4	15.9
+6		12.3	11.0
N		14.5	8.8
+4		14.5	8.8
+10		7.2	16.1
+11		6.9	16.4
	1+28		
-10		7.9	15.4
-6		13.0	10.3
N		16.0	7.3
+4		8.3	15.0
cb.		8.5	14.8
1/2		8.6	14.7
1/2		9.1	14.2
+4		9.1	14.2
1/2		12.8	10.5
+3		10.9	9.4
cb.		15.4	7.9
+2		10.5	12.8
+8		10.6	13.7
5		15.2	8.1
+5		16.4	6.9
+11		11.3	12.0
TP	12.3 13.49 ^v	11.05	12.26
	1+37		

46

1349

-10	6.2	7.3
-4	5.3	8.2
5	10.6	2.9
+4	9.5	4.0
+6	6.8	6.7
cb.	6.1	7.4
$\frac{1}{2}$	5.8	7.7
+3	4.8	8.7
$\frac{1}{2}$	6.4	13.1
$\frac{1}{2}$	0.0	13.5
cb.	0.1	13.4
+6	5.1	8.4
N	6.4	7.1
+5	6.4	7.1
+8	+1.2	12.3
+10	+1.7	11.8

1+48

-10	0.5	13.0
4	1.1	12.4
+2	5.5	8.0
+6	5.7	7.8
cb.	2.2	11.3
+5	3.4	10.1
+6	5.3	8.2
$\frac{1}{2}$	6.4	7.1
+2	6.7	6.8

1349

+3	1.6	11.9
$\frac{1}{2}$	2.0	11.5
+2	2.1	11.4
$\frac{1}{2}$	2.7	5.8
+6	8.5	5.0
cb.	10.0	3.5
+4	11.7	1.8
+5	8.4	5.1
+8	9.5	4.0
5	11.6	1.9
+4	9.0	4.5
+15	11.0	2.5

1+53

-15	10.7	2.8
-4	9.7	3.8
5	14.5	-1.0
+2	14.5	-1.0
cb.	9.4	4.1
$\frac{1}{2}$	5.2	8.3
$\frac{1}{2}$	2.2	11.3
+5	1.7	11.8
+6	7.8	5.7
+8	8.0	5.5
$\frac{1}{2}$	5.7	7.8
+5	4.2	9.3
cb.	6.8	6.7

47

13.49

+2	9.5	4.0
+6	1.3	12.2
N	1.0	12.5
+10	0.3	13.2

1458

-15	15.1	-1.6
N	15.1	-1.6
cb.	15.5	-2.0
z	15.5	-2.0
z	15.5	-2.0
z	15.5	-2.0
cb.	15.5	-2.0
S	15.0	-1.5
+15	15.5	-2.0

2400

-20	19.0	-5.5
S	19.0	-5.5
cb.	19.0	-5.5
z	19.0	-5.5
z	19.0	-5.5
z	19.0	-5.5
cb.	19.0	-5.5
N	19.0	-5.5
+20	19.0	-5.5

Note: XLY line San Antonio St. 18 approx. 0.5 boxes

T.P. on White Post	7.23	6.26
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48

Walker
Poplar
Lark
No. 1000
11-16-29

Cross Section PERRY ST. 50' wide
Bet. Rosecrans & San Antonio st. 10' cbs
7.5' ds

6529

49

1.12 6529

64.15

S.E. RR
Rosecrans Perry

Section A see sketch P-23

					4.0	61.3
					3.8	61.5
					3.8	61.5
1	0	1.1	64.2	cb.	5.3	60.0
	+7 = top Return	1.12	64.15	S	8.5	56.8
	cb.	1.4	63.9	+10	10.0	55.3
	$\frac{1}{2}$	1.4	63.9			
	$\frac{1}{2}$	1.4	63.9			
	$\frac{1}{2}$	1.4	63.9	-10	12.9	52.4
	$\frac{1}{2}$	1.5	63.8	S	12.6	52.7
	cb. on top Return	1.11	64.16	cb.	11.5	53.8
	S " " cb.	1.14	64.13	+5	10.0	55.3
	0+00 see sketch P-23					
	-10	6.9	58.4		10.1	55.2
	S	5.2	60.1		9.9	55.4
	+5	3.3	62.0		9.0	56.3
	cb.	2.8	62.5	cb.	9.2	56.1
	$\frac{1}{4}$	2.3	63.0	+5	9.5	55.8
	$\frac{1}{2}$	2.3	63.0	N	10.0	55.3
	$\frac{1}{4}$	2.3	63.0	+10	8.4	56.9
	$\frac{1}{4}$	2.0	63.3			
	cb.	1.5	63.8	-15	12.1	53.2
	N	1.1	64.2	N	13.0	52.3
	0+14					
	N-5	2.9	62.4	cb.	14.2	51.1
	N	3.2	62.1	$\frac{1}{4}$	15.1	50.2
	cb.	3.2	62.1	$\frac{1}{2}$	16.0	49.3
	$\frac{1}{4}$	3.5	61.8	$\frac{1}{2}$	16.0	49.3
				cb.	15.3	50.0

Plotted 1-16-29
CBH

0+42

65.27

40.16

S		15.1	50.2
+15		15.5	49.8
T.P.	0.25	52.75 52.69	52.50 52.44
	0+67		
-15		7.7	45.1
S		7.2	45.6
cb.		7.5	45.3
$\frac{1}{2}$		7.6	45.2
$\frac{1}{2}$		7.4	45.4
$\frac{1}{2}$		6.8	46.0
cb.		6.5	46.3
N		6.0	46.8
+15		5.6	47.2
	0+93 = $\frac{1}{2}$ Con. Walk on South 37.5' Wide to House		
-15		11.5	41.3
N		11.8	41.0
cb.		12.0	40.8
$\frac{1}{2}$		12.3	40.5
$\frac{1}{2}$		12.1	40.7
$\frac{1}{2}$		12.2	40.6
cb.		12.3	40.5
S		13.60	39.2
+14 at House		13.3	39.5
T.P.	0.20	40.16	39.76

1+12 = $\frac{1}{2}$ Con. Walk on South 4' Wide House 14' Back

-14 on Walk at House	5.86	34.60	50
S	5.01	35.15	
cb.	4.0	35.8	
$\frac{1}{2}$	3.5	36.7	
$\frac{1}{2}$	3.2	37.0	
$\frac{1}{2}$	3.6	36.6	
cb.	3.7	36.5	
N	4.0	36.2	
+15	3.8	36.4	
	1+35		
-15	8.1	32.1	
N	7.8	32.4	
cb.	7.5	32.7	
$\frac{1}{2}$	7.8	32.4	
$\frac{1}{2}$	6.6	33.6	
$\frac{1}{2}$	6.6	33.6	
cb.	6.8	33.4	
S	7.2	33.0	
+10	7.9	32.3	
	1+39		
-10	12.0	28.2	
S	11.2	29.0	
cb.	10.3	29.9	
$\frac{1}{2}$	10.0	30.2	
$\frac{1}{2}$	10.7	29.5	
$\frac{1}{2}$	11.0	29.2	

4016

cb			112	29.0
N			113	29.0
+10			116	28.6
T.P.	0.08	29.00	114	28.92 <small>00 Post</small>
		1487		
-10			45	24.5
N			45	24.5
cb.			37	25.3
$\frac{1}{2}$			40	25.0
$\frac{1}{2}$			40	25.0
$\frac{1}{2}$			34	25.6
cb.			27	26.3
+6			20	27.0
S			20	27.0
+10			21	26.9
		1489		
-10			32	25.8
S			28	26.2
cb.			28	26.8
$\frac{1}{2}$			23	26.7
$\frac{1}{2}$			30	26.0
$\frac{1}{2}$			37	25.3
cb.			40	25.0
N			40	24.1
+10			55	23.5

2401

29.00

-10			52	23.8	51
N			45	24.5	
cb.			43	24.7	
$\frac{1}{2}$			42	24.8	
$\frac{1}{2}$			42	24.8	
$\frac{1}{2}$			44	24.6	
cb.			45	24.5	
S			43	24.7	
+10			46	24.4	
		2+26			
-10			9.3	19.7	
S			8.7	20.3	
cb.			8.8	20.2	
$\frac{1}{2}$			8.6	20.4	
$\frac{1}{2}$			8.7	20.3	
$\frac{1}{2}$			8.7	20.3	
cb.			8.9	20.1	
N			9.1	19.9	
+10			9.0	20.0	
		2+51			
T.P.	2.06	19.51	11.55	17.45	
-5			3.6	15.9	
N			3.6	15.9	
cb.			3.4	16.1	
$\frac{1}{2}$			3.5	16.0	
$\frac{1}{2}$			3.5	16.0	

19.51

$\frac{1}{2}$	3.6	15.9
cb.	3.5	16.0
S	3.2	16.3
+5	3.4	15.1

2+63

-5	5.3	14.2
S	5.1	14.4
cb.	5.2	14.3
$\frac{1}{2}$	5.3	14.2
$\frac{1}{2}$	5.3	14.2
$\frac{1}{2}$	5.7	13.8
cb.	5.5	14.0
N	5.7	13.8
+5	5.8	13.7

2+68

N	7.7	11.8
+4	7.5	12.0
cb.	6.8	12.7
$\frac{1}{2}$	6.5	13.0
$\frac{1}{2}$	6.3	13.2
$\frac{1}{2}$	6.2	13.3
cb.	6.3	13.2
S	6.0	13.5

2+83

S	8.7	10.8
cb.	8.3	11.2

19.51

$\frac{1}{2}$	8.5	11.0
$\frac{1}{2}$	8.4	11.1
$\frac{1}{2}$	8.3	11.2
cb.	8.0	11.5
N	8.0	11.5

2+95

N	11.5	8.0
cb.	10.7	8.8
$\frac{1}{4}$	10.0	9.5
$\frac{1}{2}$	9.7	9.8
+3	10.2	9.3
$\frac{1}{2}$	9.3	10.2
cb.	8.9	11.6
S	8.3	11.2

3+05

S	9.5	10.0
cb.	10.2	9.3
$\frac{1}{2}$	12.1	7.4
+2	13.3	6.2
+4	13.5	6.0
+4'	11.1	8.4
$\frac{1}{2}$	11.2	8.3
$\frac{1}{2}$	11.4	8.1
cb.	11.6	7.9
N	12.5	7.0
TP	3.74	11.93
		11.32
		8.19

52

#87
11.93

3+09

N	5.6	6.3
+4	5.0	6.9
+5	7.3	4.6
cb.	7.4	4.5
$\frac{1}{4}$	7.0	4.9
$\frac{1}{2}$	6.8	5.1
+5	7.3	4.6
$\frac{1}{2}$	6.7	5.2
+3	6.1	5.8
+4	3.3	8.6
cb.	3.3	8.6
S	2.5	9.4

3+10.4 = 1/2" line San Antonio St.

S	8.1	3.8
" top cb.	8.34	3.59
" Gut.	8.7	3.2
$\frac{1}{4}$	8.1	3.8
$\frac{1}{2}$	8.4	3.5
$\frac{1}{2}$	9.0	2.9
N top cb.	8.88	3.05
N	8.8	3.1

left 3/4" on 5/8" 7' back in ch. 8.34

cbk on T.P. in White Post 5.80

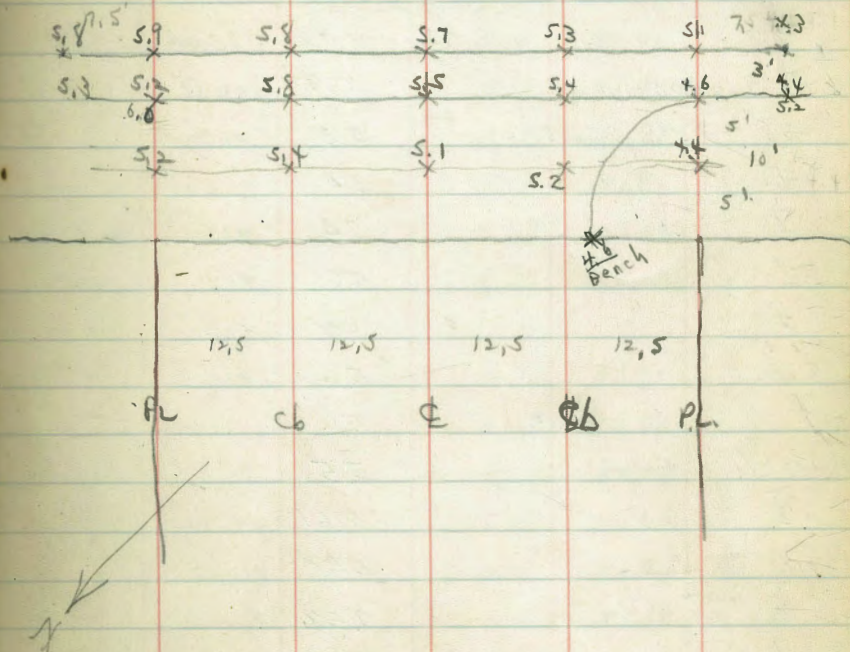
5.13
6.26 = T.P.
0.13

San Antonio
+ Bench

Page 48

HI 8.19

53



Water
Ripple
Leaky
Mutton
11-19-23

CURB LEVELS

CYPRESS ST.

from N.W. Vermont st. West

12 cbs
6.5 ft

0+00

87.30

Return Vermont

4.51 290.49

285.98

cb. on SP NE Penn. Ave Vermont

5.55

284.94

N.W. Vermont = 0+00

N TP 3.94

286.95

7.48

283.01

cb - 2.5 on top Return

4.89

282.06

cb - 2.5 " Gut. on Ground

5.3

81.70

cb.

5.4

81.60

1/2

5.4

81.6

1/2

5.6

81.4

1/2

5.7

81.3

S cb.

5.6

81.4

0+03

S cb. on Ground

5.5

81.5

1/2 " Pav.

5.61

81.34

1/2 " "

5.49

81.46

1/2 " "

5.52

81.43

cb. " "

5.47

81.48

+1.2 " 9+cb. on gutter

5.46

81.49

+1.2 on top cb.

4.89

82.06

0+06

N cb. - 0.6 on top cb.

4.90

82.05

cb - 0.6 " Gut. on Pav.

5.40

81.55

N cb. on Pav.

5.42

81.53

1/2 on "

5.30

81.65

1/2 " "

5.34

81.61

1/2 " "

5.37

81.58

286.95

54

S cb. on dirt.

5.3

81.7

0+11 = beginning

Combination Walk & South

S top cb.

4.91

82.04

" Gut. on Pav.

5.24

81.71

1/2 " "

5.12

81.83

1/2 " "

5.07

81.88

1/4 " "

5.10

81.85

N Gut. " "

5.27

81.68

N top cb.

4.93

82.02

0+25

" " "

4.96

81.99

" Gut. on Pav.

5.25

81.70

1/2 " "

5.08

81.87

1/2 " "

5.05

81.90

1/2 " "

5.11

81.84

S Gut. " "

5.27

81.68

" top cb.

4.94

82.01

0+50

S top cb.

5.01

81.94

" Gut. on Pav.

5.31

81.64

N " " "

5.35

81.60

" top cb.

5.04

81.91

0+75

" " "

5.10

81.85

" Gut. on Pav.

5.43

81.52

S " " "

5.44

81.51

29049
286.95

S top cb.	506	81.89
1+00		
S " "	516	81.79
" Gut. on Pav.	550	81.45
N " " "	553	81.42
" top cb.	515	81.80
1+25		
" " "	527	81.68
" Gut. on Pav.	562	81.33
S " " "	556	81.39
" top cb.	523	81.72
1+50		
" " "	535	81.69
S Gut. on Pav.	566	81.29
N " " "	565	81.30
" top cb.	539	81.56
1+75		
" " "	548	81.47
" Gut. on Pav.	580	81.15
S " " "	579	81.16
" top cb.	546	81.49
2+00		
" " "	557	81.38
" Gut. on Pav.	589	81.06
N " " "	583	81.12
N top cb.	556	81.39

29049
286.95

2+25			55
N top cb.	580	81.15	
N Gut. on Pav.	605	80.90	
S " " "	605	80.90	
" top cb.	574	81.21	
2+50			
" " "	590	81.05	
" Gut. on Pav.	621	80.74	
N " " "	620	80.75	
" top cb.	595	81.00	
2+75			
" " "	628	80.67	
N Gut. on Pav.	652	80.43	
S " " "	640	80.55	
" top cb.	612	80.83	
3+00			
" " "	631	80.64	
" Gut. on Pav.	662	80.33	
N " " "	678	80.17	
" top cb.	653	80.42	
3+25			
N " "	680	80.15	
N Gut. on Pav.	709	79.84	
S " " "	676	80.19	
" top cb.	652	80.43	
3+50			

290.49
286.95

56

S top cb.	6.76	80.14
" Gut. on Pac.	6.98	79.97
N " " "	7.36	79.59
N top cb.	7.02	79.93
3+75		
" " "	7.31	79.64
" Gut. on	7.68	79.27
S "	7.17	79.78
S top cb.	6.91	80.04
4+00		
" " "	7.05	79.90
" Gut. on Pac.	7.37	79.58
N " " "	8.00	78.95
N top cb.	7.57	79.38
cbk. N.E. BR. Penn + Vermont	2.01	284.94 ✓ Page 58

60' width
10' elev
10' by

Halter 54 X 52
Redwood to Thorn

12-11-28
Miller

308.89
150' N

57

B.M. BIK. Cor. Hat

-7.55

308.89

301.34

S.W. Redwood
+ Van Couwen

E

3.6

305.3

00 = N. Line Redwood

cl

3.5

305.4

W

6.7

302.2

1/4

3.7

305.2

cl

6.6

302.3

c

3.0

305.9

1/4

6.5

302.4

1/4

3.7

305.2

c

6.2

302.7

cl

3.7

305.2

1/4

6.1

302.8

W

3.9

305.0

cl

6.4

302.5

200' N.

E

6.33

302.56

N.B. BIK Cor Hat
Redwood & Hesper

W

3.0

305.9

50' N.

cl

3.0

305.9

E

5.2

303.7

W

2.8

306.1

cl

5.2

303.7

c

2.4

306.5

1/4

5.0

303.9

1/4

2.8

306.1

c

5.2

303.7

cl

2.7

306.2

1/4

5.3

303.6

E

2.8

306.1

cl

5.4

303.5

250' N.

W

5.5

303.4

E

2.7

306.2

100' N

cl

2.4

306.5

W

4.7

304.2

1/4

2.2

306.7

cl

4.5

304.4

c

1.8

307.1

1/4

4.5

304.4

1/4

2.2

306.7

c

4.0

304.9

cl

2.0

306.9

1/4

4.4

304.5

E

2.1

306.8

cl

4.4

304.9

E

4.4

304.9

Plotted Jan 17-29. CBH.

308.89

300' N of Redwood.

W		1.2	307.7	
dr		1.0	307.9	
1/4		1.3	307.6	
C		1.0	307.9	
1/4		1.8	307.1	
dr		2.5	306.4	
E		4.2	304.7	
	320' N			
E		6.7	302.2	
dr		3.2	305.7	
1/4		1.5	307.4	
dr		1.0	307.9	
1/4		1.0	307.9	
dr		0.9	308.0	
W		0.9	308.0	
T.P.	3.19	311.34	0.74	308.15
		350' N		
W		3.0	308.34	
dr		3.0	308.34	
1/4		3.2	308.1	
C		3.5	307.8	
1/4		4.7	306.6	
dr		8.6	302.7	
E		13.3	299.0	
+ 10		19.3	292.0	

311.34

Haller.

390' N.

E-15		24.8	287.5
C		14.6	296.7
dr		10.1	301.2
1/4		6.2	305.1
C		4.2	307.1
1/4		3.3	308.0
dr		2.8	308.5
W		2.7	308.6
	415' N		
W		2.4	308.9
dr		2.9	308.4
1/4		4.4	306.9
C		7.8	303.5
1/4		11.8	299.5
dr		16.8	294.5
E		22.0	289.3
+ 20		32.8	278.5
	440' N.		
- 20		37.4	273.9
E		24.4	284.9
dr		20.8	290.5
1/4		15.2	296.1
C		10.5	300.8
1/4		6.5	304.8
dr		3.7	307.6
W		2.5	308.8

58

311.34

470' N of Redwood

w.	3.1	298.2
cl	4.6	306.7
"4	7.6	303.7
e	12.8	298.5
"4	18.2	291.1
cl	23.2	288.1
e	28.6	282.7
+15	36.6	274.7

500' N.

-10	38.0	273.3
e	32.8	278.5
cl	18.0	293.3
"4	23.1	288.2
e	17.3	294.0
"4	11.6	299.7
cl	6.9	304.4
w.	4.6	306.7

535' N.

w	6.2	305.1
cl	9.8	301.5
"4	12.4	298.9
e	16.0	295.3
"4	20.5	290.8
cl	25.3	286.0
e	30.1	281.2
+15	37.8	273.5

311.34

560' N = R.C. into Thorn on W. = 40's. of Thorn

Haller

59

e	37.0	274.3	
cl	32.5	278.8	
"4	27.2	284.1	
e	23.0	288.3	
"4	18.4	292.9	
cl	14.3	297.0	
W.T.P. 9.26	309.99	10.61	300.73

See A see Page 60. 15° 00'

w.	11.3	298.7
+10'E	16.8	293.2
+20'E	22.3	287.7
+30'E	26.5	283.5
+40'E	32.5	277.5

See B 30° 00'

w	13.1	296.9
+10'E	18.5	291.5
+20'E	23.6	286.4
+30'E	29.8	280.2
+40'E	35.7	274.3

See C. 60° 00'

s.w.	10.6	299.4
+10'NE	15.9	294.1
+26'NE	21.0	289.0
+36'NE	26.0	284.0
+40'NE	31.8	278.2

on R.C. Hub

W. Line Haller

309.99
Sec. D. 75°00

s.W.	4.2	305.8
+10' N	8.1	301.9
+20' N, E.	12.5	297.5
+30' N, E.	16.8	293.2
+40' N, E.	19.4	290.6
+50' N, E.	23.5	286.5
+60' N, E.	26.0	284.0

Sec. E. 82°30'

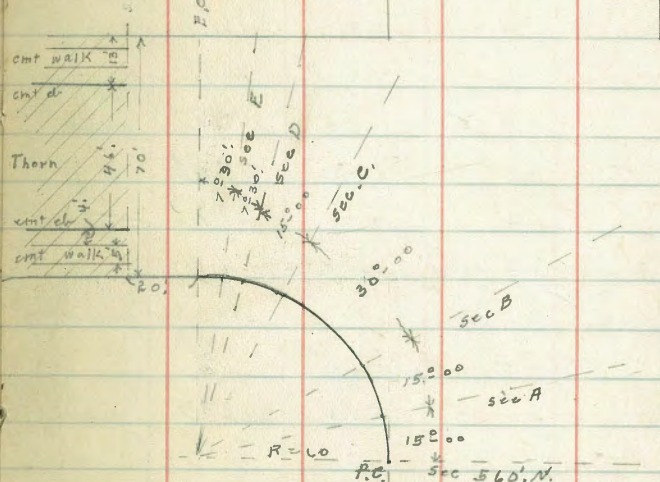
S	2.4	307.6
+10' N	2.9	307.1
+20' N	7.2	302.8
+30' N	11.4	298.6
+40' N	14.5	295.5
+50' N	17.1	292.9
+60' N	19.4	290.6
+70' N	23.0	287.0

E.C. 259.95 E. of E. line Vancouver.

S line - Thorn	2.2	307.8
+13 = S cb	2.5	307.5
+24 = S '14	2.1	307.9
+38 = f	4.8	305.2
+46 = N '14	7.8	302.2
+57 = N cb	12.3	297.7
+70 = N line	14.0	296.0
20' N. of N.	20.8	289.2

Haller

60



BT

ST

60'

Haller

309.99

240' E. of E. Line Vanouver = E. End Improvements

10 N. of N. line Thorh	5.7	304.3	
" " " "	2.6	307.4	
1' S. of " " "	0.8	309.2	
N. cl.	1.00	300.0 308.99	ent. cl.
+ 1 = gutter	1.8	308.2	
N. 1/4	1.3	308.7	
⊘	1.3	308.7	
S. 1/4	1.7	308.3	
+ 10 = gutter	2.3	307.7	
S. cl.	1.50	308.50	308.49 ent. cl.
+ 9	1.4	308.6	
S. Line	0.2	309.8	

X see Hatter from 260' N. of Redwood to 370' N. of Redwood.

B.M.	4.44	3.11.63	307.19	End. curb W. side Hatter
------	------	---------	--------	-----------------------------

260' N. of Redwood

W. cl.	5.98	305.65	
⊘	6.7		
E. 1/4	6.9		
gutter	7.2		
N. End. E. cl.	6.38	305.25	
E. line	6.3		

265' N.

E. line	5.3		
E. cl.	5.2		
E. 1/4	4.4		
+ 7	4.5		
⊘	6.4		

311.63

310' N. of Redwood

Hatter

61

⊘	6.0	
3' E	4.7	
E. 1/4	4.4	
E. cl.	3.9	
5' E	5.1	
E. line	7.7	303.9
⊘		
1 385' N.		
E. line	11.7	
E. cl.	6.5	
H. W.	4.3	
E. 1/4	4.2	
7' W.	4.2	
⊘	5.7	

360' N. = N. End. Grading on W. 1/2

⊘	5.1	
+ 2' E	4.5	
E 1/4	4.4	
+ 4' E	4.7	
E. cl.	8.5	
E. line	13.6	298.0
⊘		
E. line	13.7	
E. cl.	9.4	
2' 1/4	4.7	
⊘	4.3	

370' N.

40' wide
10' do
10' 1145

Haller St X Sec
Redwood St. South.

12-11-24
mill

302.85
120' S.

62

B.M. 2.29 302.85 302.56 page 57.

00 = S. line Redwood

E 2.1 300.7
cl 2.0 300.8
"4 1.7 301.1
c 1.9 300.9
"4 2.2 300.6
cl 2.2 300.6
W 2.4 300.4

40' S.

W 4.2 298.7
cl 4.1 298.8
"4 3.8 299.1
E 3.6 299.3
"4 3.97 298.88
"4 3.7 299.2
cl 3.6 299.3
E 3.7 299.2

80' S.

E 6.9 296.0
cl 6.5 296.4
"4 6.3 296.6
c 6.2 296.7
"4 6.4 296.5
cl 6.3 296.6
W 7.0 295.9

Plotted Jan 17-29 - C.B.H.

W 11.5 291.4
cl 11.1 291.8
"4 10.8 292.1
c 10.3 292.6
"4 10.7 292.2
cl 10.6 292.3
E 10.9 292.0
T.P. 0.98 290.92 12.91 289.94

160' S.

E 3.5 287.4
cl 3.3 287.6
"4 3.2 287.7
c 3.1 287.8
"4 3.6 287.3
cl 4.1 286.8
W 4.8 286.1

165' S.

W-2,1 = Front of House

W 6.7 284.2
cl 6.1 284.8
"4 5.9 285.0
+2 5.8 285.1
+5 4.1 286.8
c 4.1 286.8
"4 3.5 287.4
cl 4.0 286.9
E 4.2 286.7

290.92

185' S. of Redwood

E	6.8	284.1	
cl	6.9	284.0	
"y	6.8	284.1	
e	6.9	284.0	
"y	6.8	284.1	
cl	6.9	284.0	
W	7.4	283.5	
W. + 2.6 = Front of House	7.4	283.5	ground
" " "	6.7	284.8	floor

200' S.

W	10.8	280.1	
cl	9.8	281.1	
"y	9.2	281.7	
e	8.7	282.2	Top M.H.
"y	8.0	282.9	
cl	8.0	282.9	
e	8.5	282.4	

210' S.

e	9.7	281.2	
cl	9.5	281.4	
"y	9.7	281.2	
e	10.9	280.0	
"y	11.1	279.8	
cl	11.6	279.3	
W	11.6	279.3	
T.P.	2.56	281.67	11.81 279.11

281.67

220' S.

Haller

63

-10	10.1	271.6	
W	7.2	274.5	
cl	5.5	276.2	
"y	3.0	278.7	
+5	3.0	278.7	
e	5.2	276.5	
+5	2.8	278.9	
"y	2.6	279.1	
cl	2.5	279.2	
E	2.4	279.3	

230' S.

E	4.3	277.4	
cl	4.5	277.2	
"y	5.3	276.4	
+6	6.1	275.6	
e	8.7	273.0	
"y	8.7	273.0	
cl	10.0	271.7	
W	12.7	269.0	
+10	14.1	267.6	
T.P.	1.66	282.93	0.40 281.27
		243' S.	
W	19.5	263.4	
cl	18.5	264.4	
"y	15.8	267.1	
e	15.2	267.7	

282.93
243' S (con)

E. 1/4		11.5	271.4
cb		10.6	282.3
E		10.5	272.4
T.P.	0.60	270.69	12.84 270.09

263' S. of Redwood

E		8.0	262.7
cb		8.7	262.0
1/4		10.2	260.5
+5		11.2	259.5
T.P.	0.24	257.97	12.96 257.73
C		1.2	257.8
1/4		2.2	255.8
cb		3.8	254.2
W.		7.0	251.0

285' S.

W		18.5	239.5
cb		15.0	243.0
1/4		12.3	245.7
E		11.8	246.2
1/4		9.4	248.6
cb		7.9	250.1
E		6.5	251.5

295' S.

E		11.3	246.7
cb		13.0	245.0
1/4		14.6	243.4

257.97
Haller
61

		17.5	240.5
		17.5	240.5
		19.5	238.5
		22.5	235.5

305' S.

W		19.7	238.3
cb		23.0	235.
1/4		21.1	236.9
C		21.3	236.7
1/4		20.0	238.0
cb		18.3	239.7
E		17.2	240.8

320' S.

E		23.7	234.3
cb		24.7	233.3
1/4		23.3	234.7
C		21.7	236.3
1/4		20.3	237.7
cb		18.5	239.5
W		16.0	242.0

Top M.H.

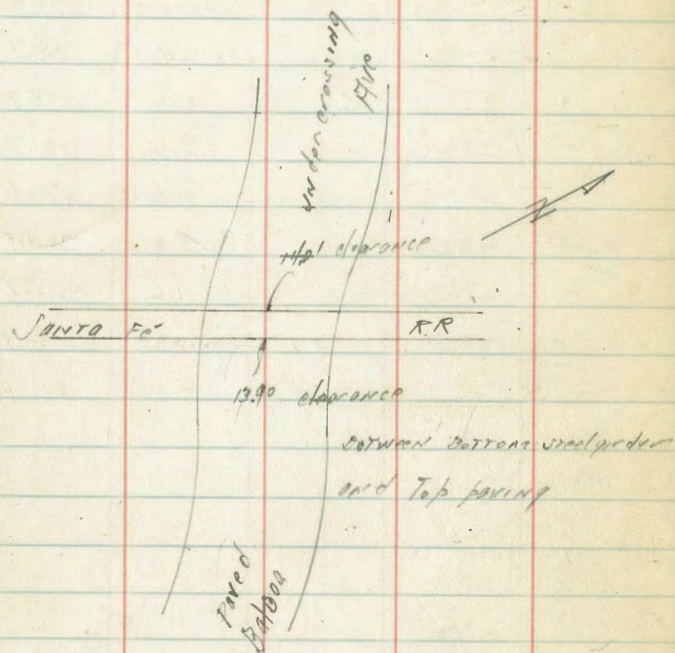
332' S.

W		12.7	245.3
cb		15.3	242.7
1/4		17.7	240.3
C		20.1	237.9
1/4		22.6	235.4

		257.97	
	332'	S. of Redwood (cont)	
cl		25.5	232.5
E		27.6	230.4
		355' S.	
E		20.3	237.7
cl		17.3	240.7
"4		14.2	243.8
e		11.8	246.2
"4		9.0	249.0
cl		7.0	251.0
W		4.0	254.0
T.P.	11.80	268.68	1.09 256.88
		375' S.	
W		6.4	262.3
cl		8.7	260.0
"4		11.0	257.7
C		13.5	255.2
"4		15.5	253.2
cl		19.0	249.7
E		21.5	247.2
		400' S	
E		10.7	258.0
cl		8.7	260.0
"4		6.8	261.9
e		3.7	265.0
T.P.	8.70	277.28	0.10 268.58
"4		9.1	68.2

		277.28	
cl		7.0	270.3
W		3.4	273.9
		420' S = 200' N. of Quince Book	
W		1.9	275.4
cl		3.0	274.3
"4		3.6	273.7
E		5.6	271.7
"4		7.2	270.1
cl		8.8	268.5
E.		11.6	265.7
T.P.	9.50	285.35	1.43 275.85
		4.10	281.25 = 281.27

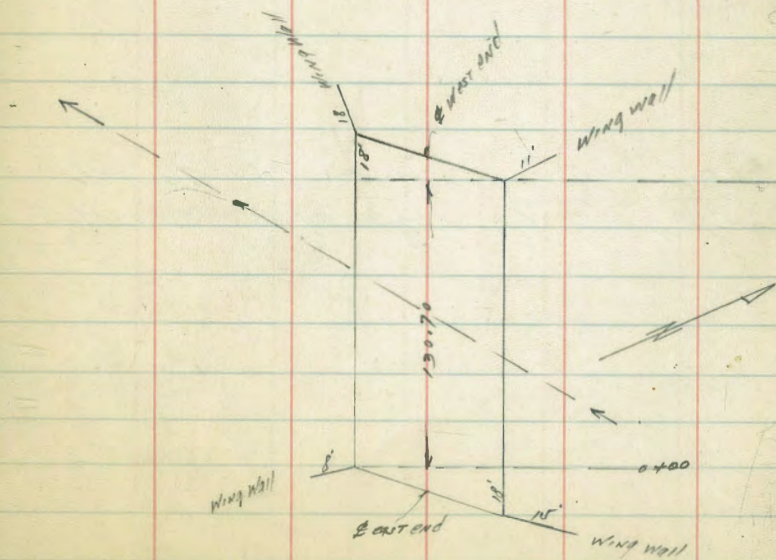
1-7-9 Under crossing on
Moose Balboa Ave. American Park



Bridge elev. Balboa Ave & River Canyon Creek

Station	U.S.S. Rise/Corr	0x6	19.57	✓ 19.31	check 66
TP	4.9	17.38	6.28	13.79	
½ east end bridge on paving			4.30		
" West "			4.10		
0+00 in creek bed			14.4	5.0	
0+25 "			11.4	6.0	
0+50 "			12.7	4.7	
0+75 "			12.9	4.5	
0+75 "			13.0	4.4	
1+00 "			13.3	4.1	
1+20 "			14.5	4.6	
1+30.7 "			8.5		

25.43
- 612
19.31



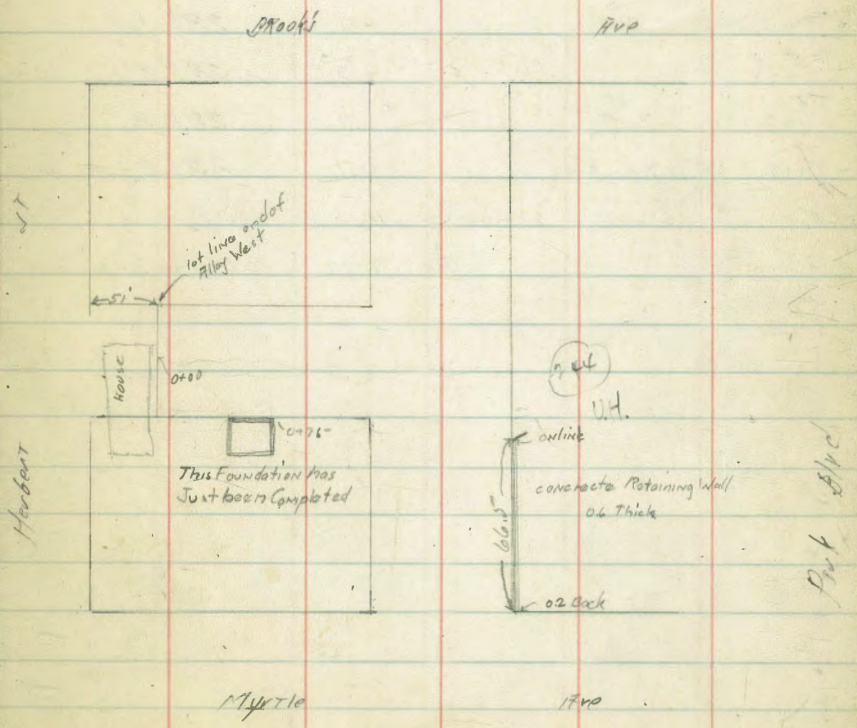
Moore

Levels on Retaining Wall Alley Blk. 244 UH.

	7.95	297.08		289.13	5F W.B.P. Brakes & Herbert
T.P.	2.33	295.16	5.25	291.83	
Pavement on E.L. Alley + N.H. of Myrtle			5.24	289.92	beginning of wall starts to rise here
Topch. " " " " " "			4.84		0.2 Back
5' North on E.H. Alley = top of Wall - 0.2 Back			3.70		
ground at base of Wall			5.1		
2.5' North top Wall			3.35		
ground			4.8		
50' N. top Wall			2.93		
ground			4.5		
66.5' N. = Top of end of Wall on line			2.58		
ground			4.4		
T.P.	2.62	292.45	3.33	291.83	

67

Note: New Cross Sections in North & South
Alley in FB 2153 by S.B. Walker 10-31-51



Practically R.V.P.

UH

Myrtle

R.V.P.

0.2 Back

This foundation has just been completed

concrete Retaining Wall 0.6 Thick

lot lines end of Alley West

house

0.75'

66.5'

Herbert

Levels ON \pm of E.+W. Alley

	0.62	292.46		291.83 = T.P.
0+00 = E. li. of hot closing Alley on \pm	See sketch		9.2	282.3
0+25			14.1	278.4
0+50			16.6	275.9
0+55			16.4	276.1
0+75			9.4	283.1
Top of Foundation Wall to Garage on line	concrete on South. E. Edge 20' long		8.99	283.46
0+87			8.6	283.9
1+00			4.9	287.6
1+25			2.7	289.8
1+70			1.7	290.8
2+12.5 = \pm of N.+S. Alley			0.7	291.8
T.P.	5.16	297.01	0.60	291.85
on Bench			7.87	289.14 - .01 error

Plotted 1-29-29 C.B.H.

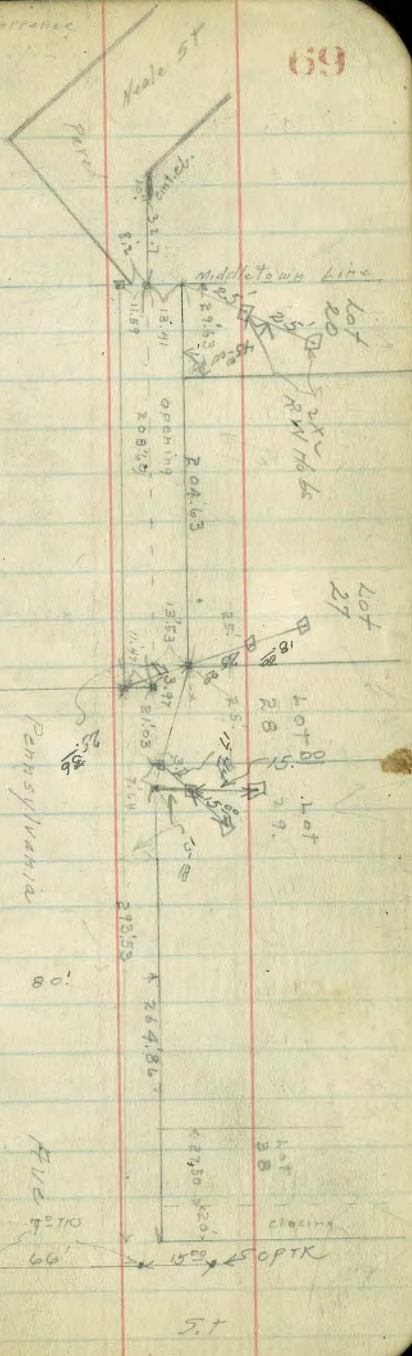
80' wide
14' db
13' hys

Pennsylvania Ave X Sec
Kite to Neale

BM.BP	5.09	269.07	269.98	N.W. Kite + Tower
set BM.BP.T.P.	11.89	277.94	3.02	266.05 N.E. Kite + Penn Ave.
00 = W line of Kite St = W line cent. walk				
N		11.16	266.78	ent. walk
db		11.46	266.48	ent. db
gutter		12.12	265.82	Parmit
1/4		12.04	265.90	"
c		12.04	265.90	"
1/4		12.20	265.74	"
gutter		12.50	265.44	"
db		11.95	265.99	ent. db
S		11.45	266.29	ent. walk
R.W. = W end 10' Rad Bb. returns + W. line parmt.				
S		9.1	268.8	
+10		10.2	267.7	
db		11.96	265.98	ent. db
gutter		12.47	265.47	parmt
1/4		12.16	265.78	"
c		12.02	265.92	"
1/4		12.04	265.90	"
gutter		12.11	265.83	"
db		11.46	266.48	ent. db
+2		11.0	266.9	"
+11		10.6	267.3	"
N		9.5	268.4	"

Plotted 2/18/29
H.C.L.

266.82 BM Tower + Kite + Terrace
277.2
269.04 etc.



277.94
5' W. of W. Line Kite ST

N	9.1	268.8
+3	10.2	267.7
cl	10.9	267.0
+1	12.0	265.9
114	11.9	266.0
C	11.9	266.0
114	12.1	265.8
idi	12.1	265.8
+2	10.0	267.9
S	9.1	268.8
45' W.		
S	7.7	270.2
+12	8.3	269.6
cl	10.5	267.4
114	10.3	267.6
C	10.1	267.8
114	10.2	267.7
cl	9.8	268.1
+2	8.3	269.6
+12	8.1	269.8
N	7.3	270.6
80' W.		
N	6.0	271.9
+7	6.2	271.7
+10	7.1	270.8
cl	7.2	270.7

277.94

Penn. Ave

114	7.6	270.3	70
C	7.8	270.1	
114	7.3	270.6	
cl	7.5	270.4	
+10	6.7	271.2	
S	6.9	271.0	
100' W			
S	5.7	272.2	
+6	5.7	272.2	
+8	6.7	271.2	
cl	6.6	271.3	
114	6.4	271.5	
C	6.4	271.5	
114	6.1	271.8	
cl	6.0	271.9	
+7	6.1	271.8	
+8	5.4	272.5	
N	5.4	272.5	
150' W			
N	3.2	274.7	
cl	4.2	278.2	
+4	3.7	274.2	
114	3.6	274.3	
C	3.8	274.1	
114	3.6	274.3	
cl	4.0	273.9	

277.94
150' W. (con)

Scl +8	4.1	273.8
+10	3.2	274.7
S	3.4	274.5
165' S.		
S	2.6	275.3
+5	3.3	274.6
cl	3.1	274.8
1/4	3.2	274.7
C	3.2	274.7
1/4	3.0	274.9
cl	3.0	274.9
N	2.8	275.1
200' W.		
N	1.6	276.3
cl	1.5	276.4
+1	2.1	275.8
1/4	2.2	275.7
C	2.2	275.7
1/4	2.3	275.6
cl	2.2	275.7
+6	2.5	275.4
+8	1.6	276.3
S	1.8	276.1
235' W.		
S	1.4	276.5
cl	1.4	276.5

277.94

Penn Ave

71

1/4	1.3	276.6
C	1.3	276.6
1/4	1.1	276.8
cl	1.1	276.8
N	0.8	277.1
264' 86 W. = A Beginning of arching on N. line		
N	0.7	277.2
cl	0.9	277.0
1/4	0.9	277.0
C	1.0	276.9
1/4	1.1	276.8
cl	1.3	276.6
S	1.2	276.7
293' 53 W. = W. end. 80' ST.		
S	0.9	277.0
cl	1.0	276.9
1/4	0.9	277.0
+5	0.8	277.1 ground
+5 on S. side garage ent. floor	0.23	277.71 no yardage ✓
C	0.6	277.3
+6	0.8	277.1
+6 on N. side garage ent. floor	0.25	277.69 no yardage ✓
1/4	0.9	277.0
cl	0.9	277.0
old N. line	0.9	277.0
T.P.	0.96	277.96
	0.94	277.00

		277.96	
12' N. of old N. Line = New N. Line		0.8'	277.2
From above see West Roadway = 25' wide			
0.0 = 297.50 W. = Δ on N. Line of opening = line Bet. Lots 277 & 28			
N.		0.8	277.2
+12.5 = E		0.9	277.1
S		0.9	277.1
35' W. of Δ on N. Line opening			
S		1.2	276.8
+12.5 = E		1.3	276.7
N		1.1	276.9
70' W.			
N		1.6	276.4
+12.5 = E		1.9	276.1
S		1.9	276.1
100' W.			
S		2.5	275.5
+12.5 = E		2.5	275.5
N		2.2	275.8
135' W.			
N		3.3	274.7
+12.5 = E		3.9	274.1
S		3.8	274.2
155' W.			
S		5.2	272.8
+12.5 = E		5.3	272.7
N		5.0	273.0

		277.96	Penn. Ave
180' W.			72
N ^R			6.5
(S)			271.5
+2			6.7
			271.3
+4			7.5
			270.5
+12.5 = E			7.5
			270.5
S			7.3
			270.7
195' W.			
S			8.6
			269.4
+2			8.6
			269.4
+3			9.5
			268.5
+12.5 = E			9.2
			268.8
+4			9.2
			268.8
+6			8.1
			269.9
N			8.1
			269.9
204' 63" W. = Middletown Line			
N			8.6
			269.4
+9			8.8
			269.2
+10.6			10.0
			268.0
1.E. of above = outlet of 12" Carbon Pipe		10.53	267.43
N + 13' 41" = old N. line Penn = N.E. Corner		10.60	267.36
N + 22.6 = S.E. Cor. Parment.		10.48	267.48
N + 25 = S.		10.0	268.0
T.P.	4.86	269.70	13.12
			264.84
T.P.	6.57	275.97	0.30
			269.40
ch K on BM.			6.59
			267.38 = 269.38
N.E. Sutter & Middletown line			

X Sec H1114 BIK N. Univ Hts
Collier to Copley Bet Oregon + Idaho

3-23-24
Mills

396.76

87' N. double garage on W. ent. floor 6.6 Back

73

B.M.	3.99	390.82		386.83	N.E. Utah + Adams	E	4.8	
T.P.	6.36	393.98	3.20	387.62		E	5.0	
epk on P.M. S.W. Idaho	Collier		4.78	389.20		W	5.4	ent. apron
T.P.	7.89	396.76	5.11	388.87		+3	5.45	ent. apron
		00=N. line	Collier			+6.6	5.30	floor
N. ent. ch.			7.71	389.05				112' N garage on E. ent. floor 4.5 Back
W. parint.			8.01			W	5.1	
E. "			8.21			E	5.0	
E. "			7.90			E	4.9	
E. ent. ch.			7.54	389.22		+4.5	4.6	floor
		5' N						152' N=S. End double garage on W. ent. floor 7' Back
E			7.0			E	4.4	
E			7.6			E	4.3	
W			7.3			W	4.4	
		10' N				+4	4.32	ent. apron
W			6.8			+7	4.00	floor
E			6.9					170' N { N. end double garage on W garage on E. ent. floor 5' Back
E			6.7			W-7	4.01	
		40' N				-4	4.43	
E			5.8			W	4.1	
E			5.9			E	3.9	
W			5.8			E	3.2	
		74' N. garage				+1.4	3.07	ent. apron
W			5.0			+5.	2.87	floor
E			5.1					
E			5.1					
+13.5			4.84					floor

Notes used in field book 1301

		396.76	1			396.76	Alley BIK N. UnivHts	
		200' N						
E		3.3		T.P	5.54	394.41	7.89	388.87
E		3.3		chk on BM			5.21	389.20
W.		3.4						0.M. 389.35
		235' double garage on W. ent. floor 7 1/2 Back						
W - 7.2		3.23	floor	BM				384.91
W - 4.4		3.56	ent. Appon	BM.				391.55
W		3.5						
E		3.4						
E		3.0		BM	3.22	390.05		386.83
		245' N		chk BM.			5.27	387.78
E		2.8						
E		3.4		BM.	6.31	393.14		386.83
W		3.7		T.P. on BM	3.99	395.39	1.74	391.40 = 391.55
		380.3' N		chk on BM.			6.19	389.20 = 389.20
Φ on M.H.		4.1						
		290' N.						
W		5.1		BM.	2.89	391.93		389.04
E		4.8		T.P. BM.			5.20	386.73 = 386.83
E		4.0		BM.	2.75	387.66		384.91
		300.4' N. = S. Lin - Copley Ave						
E ent. ch		5.49	391.27	T.P. BM.	4.07	383.96	7.77	379.89
E. parmt.		5.86		chk on BM.				
Φ "		5.99						
W. "		5.89						
W. ent. ch		5.61	391.15					

74

SW. Collier
& Idaho.

SE. Adams
& Idaho
NW. Utah
& Collier

NE. Utah
& Adams
SE. Idaho
& Adams.

NE. Utah
& Adams
NW. Utah &
391.40 = 391.55 Collier
SW. Idaho &
389.20 = 389.20 Collier
above

SE. Adams
& 30"
NE. Utah &
386.73 = 386.83 Adams

SE. Idaho
& Adams

SE. Idaho &

378.87 = 378.85 Madison
SE. Oregon &
en. lead Pluggene
4.07 381.00 = 381.05 Madison

X-Section Alley Blk. 9, Ocean Beach Park.

Jaeger
Clavert
Potters

April 6th 1929.

HI. 29.78

STA	+	H.L.	-	Elev.		+	H.L.	-	Elev. ⁷⁵
SW. B.P. Voltaire & Sunset Blvd.				25.62	N.L.			4.8	25.0
	5.85	31.47			1+00				
T.P.			6.13	25.34	N.L.			5.0	24.8
	4.44	29.78			¢			5.1	24.7
W. Curb Sunset Blvd.					S.L.			4.7	25.1
N.L. Alley					T.P.			5.97	23.81
Curb Top			4.02	25.76		4.01	27.82		
✓ Bott.			4.45	25.33	1+55				
S.L. Alley					+3'			3.6	24.2
Curb Top			2.92	25.86	S.L.			3.6	24.2
✓ Bott.			4.40	25.38	¢			3.9	23.9
0+00					N.L.			3.6	24.2
S. Curb Top			3.65	26.13	1+67				
✓ Bott.			3.94	25.84	+7'			3.5	24.3
¢			4.26	25.52	N.L.			3.8	24.0
N. Curb Bott.			3.99	25.79	¢			3.8	24.0
✓ Top			3.80	25.98	S.L.			3.8	24.0
+50					2+00				
N.L.			4.0	25.8	S.L.			4.3	23.5
¢			4.5	25.3	¢			4.3	23.5
S.L.			4.5	25.3	N.L.			4.0	23.8
0+93					2+07				
+3' Garage on South			4.6	25.2	+6.5			3.40	24.42
Dirt Floor			4.6	25.2	N.L.			3.7	24.1
S.L.			5.1	24.7	¢			4.4	23.4
¢									

Potted 4-7-29 EAB.

STA	+	H.I.	-	Elev.
				27.82
S.L.			4.3	23.5
2+50				
S.L.			4.8	23.0
☐			4.7	23.1
N.L.			4.6	23.2
2+85	Garage on North			
+5.5	Dirt Floor		5.3	22.5
N.L.			5.3	22.5
☐			5.4	22.4
S.L.			5.6	22.2
3+00				
S.L.			5.4	22.4
☐	Top of Manhole		5.2	22.60
N.L.			5.3	22.5
3+09	Garage on South			
N.L.			5.5	22.3
☐			5.5	22.3
S.L.			5.5	22.3
+5.5'	Dirt Floor		5.0	22.4
3+32	Garage on South			
+5.5'	Dirt Floor		5.9	21.9
S.L.			6.0	21.8
☐			6.1	21.7
N.L.			6.2	21.6

STA	+	H.I.	-	Elev.
				27.82
3+50				
N.L.			6.3	21.5
☐			6.3	21.5
S.L.			6.3	21.5
4+00				
S.L.			7.1	20.7
☐			7.1	20.7
N.L.			7.1	20.7
			7.73	20.09
			3.29	23.38
4+42	Garage on South			
N.L.			3.4	20.0
☐			3.4	20.0
S.L.			3.5	19.9
+7.5	Dirt Floor		3.3	20.1
4+62	Garage on North			
S.L.			3.8	19.6
☐			3.6	19.8
N.L.			3.6	19.8
+1.5'			3.6	19.8
5+00				
N.L.			4.3	19.1
☐			4.4	19.0
S.L.			4.5	18.9

23.38

STA		H.L.	Elev.
S+08	Garages on North & South		
+9	Dirt Floor	4.2	19.2
S.L.		4.6	18.8
⊕		4.5	18.9
N.L.		4.4	19.0
+6	Dirt Floor	4.4	19.0
S+44	Garage on South		
N.L.		4.9	18.5
⊕		5.1	18.3
S.L.		5.0	18.4
+7.5	Dirt Floor	4.6	18.8
6+00 ³⁰	E.W. Cable		
S. Curb Top		6.56	16.82
✓	Bottom	6.72	16.66
⊕		7.15	16.23
N. Curb Bottom		6.71	16.67
✓	Top	6.55	16.83
	E. Curb Cable		
N. Curb Top		6.80	16.58
✓	Bottom	7.33	16.05
S. ✓	Top	6.78	16.60
✓	Bottom	7.40	15.98
	T.P.	7.22	16.06
	4.62	20.68	
SW. B.P. Cable & Brighton	H.00	6.63	16.75

STA

T.P.

+

H.L.

-

77

Elev.

17.06

Sta

-

+

H.I.

-

Elev.

Sta

+

H.I.

-

Elev. 28

Sta

-

+

H.L.

-

Elev.

Sta

+

H.L.

-

Elev.

79

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope $1\frac{1}{2}$ to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

6207
 4819
 1388
 2007
 3395
 2805
 590

TABLE No. 9.

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

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

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

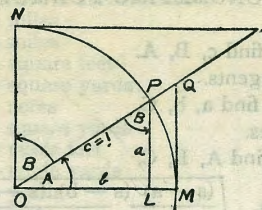


TABLE II
TRIGONOMETRIC FORMULAE.

$\angle A = \angle MOP$ $\angle B = \angle PON = \angle OPL$
 $R = OB = c = 1$

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

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

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

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

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

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

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

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

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

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

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

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

Law of Sines $\frac{\sin A}{a} = \frac{\sin B}{B} = \frac{\sin C}{C}$

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

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

TABLE II—Continued
TRIGONOMETRIC FORMULAE (continued)

In any triangle:

Given a, b, C; to find c, B, A.

Use Law of Tangents.

Given A, B, c; to find a, b, C.

Use Law of Sines.

Given a, b, c; to find A, B, C.

$$\text{Let } \frac{a+b+c}{2} = s, \sqrt{\frac{(s-a)(s-b)(s-c)}{s}} = r$$

$$\cos \frac{1}{2} A = \sqrt{\frac{s(s-a)}{bc}}$$

$$\tan \frac{1}{2} A = \frac{r}{s-a}$$

$$\tan \frac{1}{2} B = \frac{r}{s-b}$$

$$\tan \frac{1}{2} C = \frac{r}{s-c}$$

Area of a triangle:

$$\text{Area} = \frac{1}{2} ab \sin C$$

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

PRISMOIDAL FORMULA.

$$\text{Vol} = \frac{h}{6} (E + b + 4M)$$

h = altitude; b, B = bases; M = midsection

TABLE III
INCHES AND FRACTIONS OF AN INCH IN DECIMALS OF A FOOT

	0	1	2	3	4	5	6	7	8	9	10	11	
$\frac{1}{16}$	.0052	.0885	.1719	.2552	.3385	.4219	.5052	.5885	.6719	.7552	.8385	.9219	$\frac{1}{16}$
$\frac{2}{16}$	.0104	.0938	.1771	.2604	.3438	.4271	.5104	.5938	.6771	.7604	.8438	.9271	$\frac{2}{16}$
$\frac{3}{16}$	.0156	.0990	.1823	.2656	.3490	.4323	.5156	.5990	.6823	.7656	.8490	.9323	$\frac{3}{16}$
$\frac{4}{16}$	.0208	.1042	.1875	.2708	.3542	.4375	.5208	.6042	.6875	.7708	.8542	.9375	$\frac{4}{16}$
$\frac{5}{16}$	.0260	.1094	.1927	.2760	.3594	.4427	.5260	.6094	.6927	.7760	.8594	.9427	$\frac{5}{16}$
$\frac{6}{16}$	.0313	.1146	.1979	.2813	.3646	.4479	.5313	.6146	.6979	.7813	.8646	.9479	$\frac{6}{16}$
$\frac{7}{16}$	.0365	.1198	.2031	.2865	.3698	.4531	.5365	.6198	.7031	.7865	.8698	.9531	$\frac{7}{16}$
$\frac{8}{16}$	.0417	.1250	.2083	.2917	.3750	.4583	.5417	.6250	.7083	.7917	.8750	.9583	$\frac{8}{16}$
$\frac{9}{16}$	.0469	.1302	.2135	.2969	.3803	.4635	.5469	.6302	.7135	.7969	.8802	.9635	$\frac{9}{16}$
$\frac{10}{16}$	.0521	.1354	.2188	.3021	.3854	.4688	.5521	.6354	.7188	.8021	.8854	.9688	$\frac{10}{16}$
$\frac{11}{16}$	.0573	.1406	.2240	.3073	.3906	.4740	.5573	.6406	.7240	.8073	.8906	.9740	$\frac{11}{16}$
$\frac{12}{16}$	.0625	.1458	.2292	.3125	.3958	.4792	.5625	.6458	.7292	.8125	.8958	.9792	$\frac{12}{16}$
$\frac{13}{16}$	.0677	.1510	.2344	.3177	.4010	.4844	.5677	.6510	.7344	.8177	.9010	.9844	$\frac{13}{16}$
$\frac{14}{16}$	.0729	.1563	.2396	.3229	.4063	.4896	.5729	.6563	.7396	.8229	.9063	.9896	$\frac{14}{16}$
$\frac{15}{16}$	.0781	.1615	.2448	.3281	.4115	.4948	.5781	.6615	.7448	.8281	.9115	.9948	$\frac{15}{16}$
1	.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167	1.0000	1
	0	1	2	3	4	5	6	7	8	9	10	11	

TABLE IV
USEFUL RELATIONS

Lineal feet	×.00019	= miles
Lineal yards	×.0006	= miles
Square inches	×.007	= square feet
Square feet	×.111	= square yards
Square yards	×.0002067	= acres
Acres	×4840	= square yards
Cubic inches	×.00058	= cubic feet
Cubic feet	×.03704	= cubic yards
Links	×.22	= yards
Links	×.66	= feet
Feet	×1.5	= links

$$360^\circ = 21600' = 1296000''$$

$$\text{Radius} = \text{arc of } 57.2957790^\circ$$

$$\text{Arc of } 1^\circ (\text{radius} = 1) = .017453292$$

$$\text{Arc of } 1' (\text{radius} = 1) = .000290888$$

$$\text{Arc of } 1'' (\text{radius} = 1) = .000004848$$

$$\pi = 3.141592654 \quad \sqrt{\frac{1}{4}} = 0.564190$$

$$\frac{\pi}{4} = 0.785398163 \quad \sqrt[3]{\frac{6}{\pi}} = 1.240700982$$

$$\frac{\pi}{6} = 0.523598776 \quad \pi^2 = 9.869604401$$

$$\sqrt{\frac{4}{\pi}} = 1.128379167 \quad \frac{1}{\pi^2} = 0.101321184$$

$$\frac{\pi}{6} = 0.523598776 \quad \sqrt{\pi} = 1.772453851$$

$$\frac{4\pi}{3} = 4.188790205 \quad \frac{1}{\pi} = 0.3183099$$

Curvature of Earth's surface = about 0.7 feet in 1 mile

Curvature in feet = $0.667 (\text{Dist. in miles})^2$

Difference between arc and chord length, 0.05 feet in $11\frac{1}{2}$ miles

$$\text{Probable error of a single observation} = 0.6754 \sqrt{\frac{\sum v^2}{n-1}}$$

Error in chaining of 0.01 feet in 100 feet:

Due to—

1. Length of tape error of 0.01 feet
2. Alignment. One end 1.4 feet out of line
3. Sag of tape at centre of 0.61 feet.
4. Temperature difference of 15°
5. Difference of pull of 15 lbs.

STADIA REDUCTION FORMULAE.

$$\text{Horizontal Distance} = R - R \sin^2 a + C \cos a$$

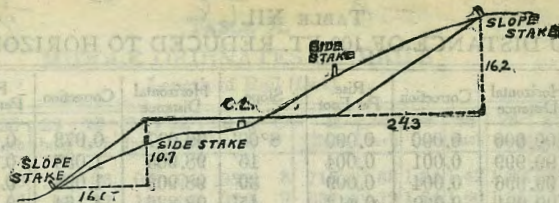
$$\text{Vertical Distance} = R \frac{1}{2} \sin 2a + C \sin a$$

$$R = \text{Reading} \times \frac{\text{distance from Object glass to cross hairs}}{\text{distance between cross hairs}}$$

C = distance from Object glass to cross hairs + distance from Object glass to center of instrument.

a = angle of elevation for mid Reading

1047
1388
2836
2080
355



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

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

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

Computed by L. Leland Locke.

3715
925
2790
2x5
12.5
15
1075
5632
1114
15.18
4819
1197
6016=T
027
5989=74
921+
6910=T
L89
Perry = 61.3 - 8M
6910=T
7.5
67.05

243
63
85
295
305 ✓
320 X
332 X
55 X
75 X
400 ✓
420 ✓

1931 US&SBM

26.62
+ 5.85

32.47 ✓
6.12 ✓

26.34 ✓
4.44 ✓

20.90 ✓
5.97 ✓

24.81 ✓
4.01 ✓

28.82 ✓
7.72 ✓

21.09 ✓
3.29 ✓

24.38 ✓
7.32 ✓

17.06 ✓
4.62 ✓

21.68 ✓
6.63 ✓

15.05 ✓

10.2
7.6

17.8
25.4
7.6

33.0
40.7

27.5 = 2
25.1 = Pm
28.2 = E Rail
33.5 = 1 Rail
70.0
36.5
22.1

180

2265
175

575

225
128

1025

119271
50

961350 - dist at Quilthorn

290.49
49 ✓

555

281.27
1.66

282.93

310.4
14.6

325.0

6.1262
0.44

218

7.3
2.6

4.7

1025
250

525
72

56.32
56.17
11.4

45.03

4637
95

4732
4503

209

10.38
6.95

17.33

345

1725

5175

6900

141

135

121

3000.95

272

278

175

48

27

195

12.25

7.25

32.7

25

7.7

2.6

5.1

20.9

2

21.2

11.17
2.33

1094