

1130

FIELD BOOK

361

CITY OF
SAN DIEGO, CALIFORNIA

OTAY-SAN DIEGO SECOND MAIN CON-
DUIT, CROSS-SECTIONS.

KEUFFEL & ESSER CO.

DRAWING MATERIALS

AND

SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

Tables for Excavations and Embankments.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.
FOR SINGLE TRACK EXCAVATION.

" Copyright, 1895, by Keuffel & Esser Co."

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

Calculated by Julien A. Hall, M. Am. Soc. C. E.

FOR KEITH'S RAILROAD CURVE TABLES SEE END OF BOOK.

state & Nutmeg.

Lower Otay

B.M.	4.18	499.07		494.89
			6.88	492.19
			6.89	492.18
			2.92	496.15
B.M.#1			7.56	491.51
T.P.	11.61	510.62	0.06	499.01
T.P.	12.37	522.27	0.72	509.90
T.P.	3.42	516.87	8.82	513.45
B.M.#2			8.58	508.29
T.P.	0.12	504.54	12.45	504.42
T.P.	0.30	493.21	11.63	492.91
T.P.	0.18	481.37	12.02	481.19
T.P.	0.19	469.03	12.53	468.84
T.P.	0.45	456.60	12.88	456.15
T.P.	0.08	444.07	12.61	443.99
T.P.	0.28	432.25	12.10	431.97
T.P.	0.48	419.91	12.82	419.43
T.P.	0.16	407.54	12.53	407.38
B.M.#3			4.92	402.62
			5.58	401.96
B.M.#4			7.28	400.26
B.M.#5			11.52	396.02

Hayler - level
Burk - rod

4-24-23

Burb's B.M.#6 Rock in concrete. Top of lining of small reservoir basin near west end.

Top of Roadway slab on dam

Top of Parapet wall opposite stairs on west end of dam

Top of Eye bolt Anchor in down stream face of dam in sixth panel of hand rail East of West stairway.

Top of Anchor Bolt at North corner of concrete foundation bed near blue stone house.

Top of concrete curb around coagulant shaft, at inside angle of SE Corner

Brass Nail in Footing Block of S.E. Post in Filter Plant (SW Cor of Block) near foot of stairs

On Cement Floor of Filter Plant just inside of Main Door

On SW Cor of West Wall of Tunnel Channel - Top of Concrete Wall

On NE Cor of concrete pier under N End of 36" to 48" Reducer where Wood Stave Pipe begins.

Haylor, level
Burk, rod

7.9

4.6

4-25-23 2

3.94

Station	-	H.I.	+	Elev. Top of Pipe	Grade Rod
B.M. #5	5.95	401.97		396.02	
1+50			3.26	398.71	7.2
1+75			3.05	398.92	7.0
2+00			3.12	398.85	7.1
2+25			3.07	398.90	7.0
2+50			3.24	398.73	7.2
T.P.	3.60	401.97	3.60	398.37	
2+75			3.12	398.85	7.1
3+00			3.37	398.65	7.3
3+25			3.60	398.37	7.5
3+50 = 3+48 E.C.			3.51	398.46	7.5
3+78			3.30	398.67	7.2
4+00			3.37	398.60	7.3
4+50			4.12	397.85	8.1

L	±	R	
$\frac{0.0}{14}$	$\frac{+0.7}{7.5}$	$\frac{-0.0}{4.9}$	$\frac{-0.3}{3.7}$
0.0	0.0	$\frac{-4.1}{3}$	$\frac{-2.9}{4.6}$
			West Bulkhead of Trestle #1 Pipes 7-6" centers
		$\frac{+2.8}{10.3}$	$\frac{-0.3}{4.6}$
			Pipes 6-47" centers
		$\frac{+4.4}{10.1}$	$\frac{+0.9}{5.0}$
		+0.4	Typical Section Pipes 5-44" centers
$\frac{+6.3}{11.0}$	$\frac{+6.3}{8.0}$	0.0	$\frac{0.0}{4.6}$
		$\frac{+5.4}{10.6}$	$\frac{+0.9}{5.1}$
		+0.3	
		$\frac{+4.2}{10.0}$	$\frac{+0.5}{4.8}$
		+0.3	
$\frac{+3.8}{9.8}$	$\frac{+3.6}{5}$	+0.2	$\frac{+0.2}{4.7}$
$\frac{+2.8}{8.5}$	$\frac{+3.8}{6}$	+0.2	$\frac{+0.7}{5.0}$
		$\frac{+2.7}{9.3}$	$\frac{+0.6}{4.9}$
		+0.1	
		$\frac{+3.8}{9.8}$	$\frac{+0.8}{5.0}$
		+0.6	
		$\frac{+3.6}{9.7}$	$\frac{+1.0}{5.1}$
		+0.7	
		$\frac{+3.1}{9.5}$	$\frac{+0.5}{4.9}$
		+0.3	

Station	-	H.I.	+	Elevation Top of Pipe	Grade Rod
5+00		401.97	4.98	396.99	8.9
5+40			6.08	395.89	10.07
5+60			6.86	395.11	10.8
6+00			8.41	393.56	12.35
6+50			9.17	392.80	13.1
7+00			10.91	391.06	14.85
7+50			11.63	390.34	15.6
7+65			11.72	390.25	15.7
T.P.	6.98	397.27	11.68	390.29	
8+00			7.47	389.80	11.4
8+50			8.51	388.76	12.45
8+70			9.71	387.56	13.65
9+00			14.4±	382.87	18.3
T.P.	0.29	384.92	12.64	384.63	
9+20			8.60	376.32	17.54

L	C	R
+3.8 9.8	+0.2	+1.3 5.3
+5.2 10.5	0.0	+3.3 6.3
+3.0 9.4	0.0	0.0 4.6
+4.3 10.1	+0.4	+0.9 5.1
+4.6 10.2	+0.2	+0.7 5.0
+4.0 9.9	+0.3	+0.9 5.1
+3.3 9.6	+0.1	+0.4 4.8
+2.3 9.1	+0.2	+0.6 4.9
+3.6 9.7	+0.4	+1.0 5.1
+7.0 11.4	+1.0	+2.7 5.0
+7.4 6.5		+3.5 6.4
+4.5 8.0		
+6.9 11.4	+1.1	+4.6 6.9
+4.3 4		
+5.9 10.4	+1.0	+1.1 2
+4.4 8		+3.7 6.5
+4.6 10.8	+1.0	+2.5 5.9

4-26-23

Bottom
width
11.9

8.45

3.94

Hayler T
Burk-Rod
Lockhart

7.9

4.6

Station	-	384.92 H.I.	+	Elevation Top of Pipe	Grade Rod
	0.21	372.46	12.67	372.25	
9+35			2.15	370.31	6.1
9+50			7.83	364.63	11.8
9+65			12.72	359.74	16.7
T.P.	0.40	360.19	12.67	359.79	
9+75	Bulkhead		3.35	356.84	7.3
9+90	Bent #1		6.94	353.25	10.9
T.P.	0.01	352.33	8.77	351.42	
10+05	Bent #2		0.89	351.44	
10+20	Bent #3		1.28	351.05	
10+28					
10+35	Bent #4		1.30	351.03	
10+50	Bulkhead		1.34	350.99	5.3
10+65			0.56	351.77	4.5
B.M. #6			5.31	347.02	
T.P.	12.05	363.84	0.54	351.79	
10+75			11.45	352.39	15.4
11+00			9.95	353.89	13.9

Bottom width	L		C		R
8.9	$\frac{+4.5}{11.2}$	$\frac{+4.4}{4}$	$\frac{+2.2}{2}$	0.0	$\frac{0.0}{3.0}$ $\frac{+1.0}{5.1}$
9.3	$\frac{+4.9}{11.8}$	$\frac{+5.6}{8}$	$\frac{+1.6}{4.5}$	$\frac{+1.0}{2}$	0.0 Fill
9.7	$\frac{+4.2}{11.8}$	$\frac{+5.0}{7.0}$	$\frac{+1.0}{3.0}$	$\frac{+1.0}{2}$	0.0 Fill
10.00		$\frac{+1.4}{10.7}$	$\frac{+1.0}{7.5}$	$\frac{+1.8}{2}$	0.0 Fill East Bulkhead Trestle #2
	$\frac{350.9}{16}$	$\frac{349.7}{11.0}$	$\frac{348.3}{7.5}$	$\frac{0.0}{5.7}$	$\frac{+0.6}{2}$ 0.0 Fill
	$\frac{5.9}{346.4}$	$\frac{8.0}{344.3}$	$\frac{8.9}{343.4}$	$\frac{6.2}{341.1}$	$\frac{6.4}{345.9}$ $\frac{6.0}{346.3}$
	$\frac{2.0}{20}$	$\frac{1.7}{17}$	$\frac{1.4}{14}$	$\frac{1.5}{7.5}$	$\frac{2}{2}$ $\frac{7.0}{7.0}$
	$\frac{12.5}{339.3}$	$\frac{13.0}{330.3}$	$\frac{10.3}{342.0}$	$\frac{10.5}{341.8}$	$\frac{10.7}{341.6}$ $\frac{11.0}{341.3}$
	$\frac{3.0}{30}$	$\frac{2.5}{21.5}$	$\frac{1.8}{18}$	$\frac{1.5}{7.5}$	$\frac{2}{2}$ $\frac{10}{10}$
		$\frac{13.7}{338.6}$	$\frac{11.3}{341.0}$	$\frac{7.5}{339.5}$	$\frac{10.5}{341.2}$ $\frac{10.2}{342.1}$ $\frac{7.7}{344.6}$
		$\frac{28.5}{28.5}$	$\frac{17.5}{17.5}$	$\frac{7.5}{7.5}$	$\frac{341.8}{2}$ $\frac{342.1}{5}$ $\frac{344.6}{9}$
10.00		$\frac{+0.6}{10.3}$	$\frac{0.0}{8.5}$	$\frac{-0.4}{7.5}$	$\frac{345.0}{2.0}$ West Bulkhead Trestle #2
9.6			$\frac{+2.7}{11}$	+0.5	$\frac{0.0}{4.6}$
On NE Cor of South Footing West Bulkhead Trestle #2					
9.3		$\frac{0.0}{9.5}$	$\frac{0.0}{4}$	$\frac{+1.9}{2}$	+0.9 $\frac{+2.5}{5.9}$
8.6		$\frac{+3.5}{10.4}$	$\frac{+4.9}{4}$	0.0	$\frac{+4.4}{6.8}$

Station	-	H.I.	+	Elevation Top of Pipe	Grade Rod
11+25		363.84	8.77	355.07	12.7
11+50			7.50	356.34	11.4
12+00			4.92	358.92	8.9
12+50			2.38	361.46	6.3
T.P.	12.92	375.94	0.82	363.02	
12+75			13.03	362.91	17.0
13+00			10.72	365.22	14.7
13+35			(13.79) 2.75	373.19	
T.P.	11.24	386.98	0.20	375.74	17.7
T.P.	11.70	398.50	0.18	386.80	
13+75			11.95	386.55	15.9
14+00			5.26	393.24	9.2
T.P.	6.20	404.58	0.12	398.38	
14+20			8.21	396.37	12.15
14+75			6.23	398.35	10.2
14+80			6.23	398.35	10.2
B.M. #7			4.11	400.47	

3.94

Hayler-T:
Burk-Rod
Lockhart

7.9

4.6

4-26-23

J

L	±	R
$\frac{+5.7}{10.8}$	$\frac{+4.8}{4}$	$\frac{0.0}{3}$
$\frac{+4.4}{10.1}$	$\frac{+4.8}{6}$	$\frac{+1.2}{3}$
$\frac{+3.0}{9.4}$	$\frac{+3.7}{5.0}$	$\frac{+1.1}{5.2}$
$\frac{+2.0}{8.9}$	$\frac{+4.0}{2}$	$\frac{+0.7}{3.5}$
$\frac{+2.9}{9.4}$	$\frac{+3.2}{5}$	$\frac{+2.1}{2}$
$\frac{+5.7}{10.8}$	$\frac{+4.8}{6}$	$\frac{+1.6}{5.4}$
$\frac{+9.5}{12.7}$	$\frac{+9.0}{7.5}$	$\frac{+6.3}{4}$
$\frac{+10.2}{13.0}$	$\frac{+10.0}{7}$	$\frac{+2.4}{3}$
$\frac{+7.9}{11.9}$	$\frac{+7.3}{8}$	$\frac{+4.2}{4}$
$\frac{+7.2}{11.5}$	$\frac{+7.2}{8}$	$\frac{+4.0}{2.0}$
$\frac{+5.5}{10.7}$	$\frac{+4.7}{5}$	$\frac{+1.0}{5.1}$
$\frac{+6.0}{10.9}$	$\frac{+6.0}{7}$	$\frac{+5.0}{5}$
$\frac{+1.8}{3.5}$	$\frac{+1.8}{2}$	$\frac{0.0}{4}$
$\frac{+2.2}{5.7}$	$\frac{+2.2}{3}$	$\frac{+1.4}{2}$
$\frac{+3.2}{4.0}$	$\frac{+3.2}{4.0}$	$\frac{+5.2}{7.2}$
$\frac{+2.2}{3.5}$	$\frac{+2.2}{3}$	$\frac{+1.1}{5.1}$
$\frac{+2.0}{4}$	$\frac{+2.0}{4}$	$\frac{+3.0}{6.1}$
$\frac{+1.0}{5.1}$	$\frac{+1.0}{5.1}$	$\frac{+1.0}{5.1}$
$\frac{0.0}{4}$	$\frac{0.0}{4}$	$\frac{+2.2}{5.7}$

4-27-23

On top of Flange at top of 4" Valve (Air Valve)

+3.94

Hayler X
Burke, Rod
Lockhart

7.9

4.6

4-27-23

6

Station	-	H.I.	+	Elevation Top of Pipe	Grade Rod
15+00		404.58	6.47	398.11	10.41
16+00			10.41	394.17	14.35
16+50			13.11	391.47	17.05
T.P.	0.45	392.41	12.62	391.96	
17+00			4.31	388.10	8.25
17+25			7.55	384.86	11.5
17+50			11.67	380.74	15.6
T.P.	0.93	380.68	12.66	379.75	
17+80			5.87	374.81	9.8
18+00			11.80	368.88	15.7
T.P.	0.70	368.77	12.61	368.07	
18+25			7.95	360.82	11.9
T.P.	0.45	356.63	12.59	356.18	
18+50			4.65	351.98	8.6
18+70			11.98	344.65	15.9
T.P.	0.43	344.22	12.84	343.79	
19+00			11.48	332.74	15.4
T.P.	0.53	331.78	12.97	331.25	
19+20			6.53	325.25	10.5

L	±	R
$\frac{+9.2}{10.0}$	$\frac{+6.1}{6}$	$\frac{+4.5}{4}$
$\frac{+1.2}{3}$	$\frac{+1.0}{2}$	0.0
$\frac{+10.6}{4}$	$\frac{+1.1}{5.2}$	
$\frac{+4.4}{10.1}$	$\frac{+5.1}{7}$	$\frac{+4.1}{4}$
$\frac{+1.8}{3}$	$\frac{+1.3}{2}$	0.0
$\frac{0.0}{4}$	$\frac{+2.1}{5.7}$	
$\frac{+4.4}{10.1}$	$\frac{+6.0}{6.5}$	$\frac{+4.9}{4}$
$\frac{+2.0}{3}$	$\frac{+1.1}{2}$	0.0
$\frac{0.0}{3.5}$	$\frac{+2.8}{6.0}$	
$\frac{+3.8}{9.8}$	$\frac{+5.5}{7}$	$\frac{+3.8}{4}$
$\frac{+0.7}{3}$	$\frac{+0.7}{2}$	0.0
$\frac{0.0}{3.5}$	$\frac{+0.8}{5}$	
$\frac{+3.8}{9.8}$	$\frac{+4.0}{8}$	$\frac{+2.0}{3}$
$\frac{+2.0}{2}$	0.0	$\frac{0.0}{4.6}$
	$\frac{+4.4}{10.1}$	$\frac{+1.2}{5.2}$
	$\frac{+4.0}{9.9}$	$\frac{+4.2}{8}$
	+0.4	$\frac{0.0}{3.8}$
		Fill
	$\frac{+3.0}{9.4}$	$\frac{+4.4}{8}$
	+0.2	$\frac{0.0}{1}$
		Fill
	$\frac{+4.4}{10.1}$	$\frac{+4.7}{7}$
	$\frac{+4.5}{4.0}$	+0.5
		$\frac{0.0}{2.5}$
	$\frac{+6.4}{11.1}$	$\frac{+5.4}{3.5}$
	+1.4	$\frac{+1.5}{5.4}$
	$\frac{+6.5}{11.2}$	$\frac{+6.4}{8}$
	+0.9	$\frac{+0.4}{2.5}$
		$\frac{+0.5}{4.9}$
	$\frac{+5.3}{10.5}$	$\frac{+4.7}{7.5}$
	+0.6	$\frac{+0.4}{4.8}$
	$\frac{+3.8}{9.8}$	$\frac{+4.3}{8}$
	+0.4	$\frac{0.0}{4.0}$

Station	-	H. L.	+	Elevation Top of Pipe	Grade Rod
19+40		331.78	13.43	318.35	17.4
T.P.	0.10	319.06	12.91	318.87	
19+60			5.98	313.08	9.9
19+80			9.85	309.21	13.8
T.P.	0.45	306.72	12.79	306.27	
20+00			0.70	306.02	4.64
20+12	Bulkhead		1.88	304.84	5.82
20+27	Bent #1		2.31	304.41	
20+42	Bent #2		2.26	304.46	
20+57	Bent #3		2.31	304.41	
20+72	Bent #4		2.31	304.41	
20+87	Bent #5		2.31	304.41	
21+02	Bulkhead		2.12	304.60	6.06
B.M #8			8.19	298.53	
T.P.	12.42	318.61	0.53	306.19	
21+20			11.89	306.72	15.83

+3.94

Hayler T
Bark Road
Lockhart

7.9

4.6

4-27-23

Bottom
width

	L	C	R
8.0	$\frac{+3.4}{9.7}$	$\frac{+3.3}{6}$	$\frac{+0.4}{4}$ $\frac{+0.8}{5}$
8.5		$\frac{+2.8}{9.9}$	$\frac{+0.7}{4}$ $\frac{+0.8}{5}$
9.1	$\frac{+2.7}{10.5}$	$\frac{+2.9}{5.5}$	$\frac{+1.1}{4}$ $\frac{+0.4}{2}$ 0.0 Fill
9.6	$\frac{+2.1}{10.7}$	$\frac{+2.9}{5.5}$	$\frac{+1.2}{4}$ $\frac{+0.3}{2}$ 0.0 Fill
10.0	$\frac{228.5}{17.5}$	$\frac{0.0}{3.3}$	$\frac{+1.0}{7.5}$ $\frac{0.0}{5.5}$ $\frac{+0.2}{2}$ 0.0 Fill East Bulkhead Tree/c #3
	$\frac{14.0}{20}$	$\frac{1.4}{11}$	$\frac{8.9}{7.5}$ $\frac{9.9}{5.5}$ $\frac{9.1}{2}$ $\frac{9.2}{2}$ $\frac{8.1}{6}$
	$\frac{292.7}{20}$	$\frac{298.3}{12.5}$	$\frac{297.8}{7.5}$ $\frac{292.3}{7.5}$ $\frac{297.6}{2}$ $\frac{297.5}{2}$ $\frac{298.6}{7}$
	$\frac{14.0}{20}$	$\frac{1.2}{12.5}$	$\frac{12.6}{7.5}$ $\frac{12.0}{7.5}$ $\frac{14.5}{2}$ $\frac{10.4}{7}$
	$\frac{17.7}{20}$	$\frac{17.3}{9.5}$	$\frac{16.0}{7.5}$ $\frac{15.4}{4}$ $\frac{15.4}{2}$ $\frac{14.7}{10}$
	$\frac{289.0}{20}$	$\frac{289.4}{9.5}$	$\frac{290.7}{7.5}$ $\frac{291.3}{4}$ $\frac{291.3}{2}$ $\frac{292.0}{10}$
	$\frac{294.0}{20}$	$\frac{292.8}{7.5}$	$\frac{293.9}{2}$ $\frac{293.7}{2}$ $\frac{294.2}{10}$
	$\frac{294.2}{20}$	$\frac{10.5}{7.5}$	$\frac{11.2}{7.5}$ $\frac{11.5}{2}$ $\frac{10.9}{2}$ $\frac{10.5}{8}$
	$\frac{5.9}{20}$	$\frac{0.0}{11.5}$	$\frac{6.7}{7.5}$ $\frac{8.2}{2}$ 0.0 Fill
9.5	$\frac{+5.9}{12.5}$	$\frac{+5.0}{7}$	$\frac{+1.6}{4}$ $\frac{+1.3}{2}$ 0.0 $\frac{0.0}{4.6}$

Nail in E Face of Cap (South End) of Sta. 20+94.3

Station	-	H. I.	+	Elevation Top of Pipe	Grade Rod
21+40		318.61	8.04	310.57	12.0
T.P.	12.82	331.32	0.11	318.50	
21+60			14.94	316.38	18.9
21+80			6.86	324.46	10.8 (23.1)
T.P.	12.54	343.64	0.22	331.10	
22+00			11.60	332.04	15.54
T.P.	12.56	356.00	0.20	343.44	
22+35			7.88	348.12	11.8
22+50			1.83	354.17	5.8 17.8
T.P.	12.22	368.06	0.16	355.84	
T.P.	12.80	380.57	0.29	367.77	
22+90			13.3	367.27	17.2
23+00			9.97	370.60	13.9
23+25			2.50	378.07	6.44
T.P.	12.88	393.29	0.16	380.41	
23+50			8.16	385.13	12.1
T.P.	9.82	402.95	0.16	393.13	
23+70			12.24	390.71	16.2
24+00			7.33	396.62	11.3

3.94

Hayler X
Burk, Rod
Lockhart

7.9

4.6

4-28-23

8

Bottom
Width

L

C

R

8.92	$\frac{+8.4}{12.1}$	$\frac{+6.4}{6}$	+1.4	$\frac{+1.5}{4}$	$\frac{+2.0}{5.6}$
8.37	$\frac{+12.4}{14.6}$	$\frac{10.9}{9}$	$\frac{+6.2}{2}$	+1.8	$\frac{+3.5}{6.4}$
7.9	$\frac{+12.4}{14.6}$	$\frac{+12.9}{13}$	$\frac{+10.0}{10}$	$\frac{+6.0}{4}$	+1.2
					$\frac{+1.2}{2.5}$
					$\frac{+3.8}{6.5}$
	$\frac{+14.0}{14.9}$	$\frac{+13.1}{12}$	$\frac{+8.1}{6}$	$\frac{+6.5}{3}$	+1.4
					$\frac{+1.1}{3}$
					$\frac{+3.4}{6.3}$
	$\frac{+9.7}{12.8}$	$\frac{+9.6}{12}$	$\frac{+5.0}{7}$	0.0	$\frac{0.0}{4.6}$
		$\frac{+7.4}{11.7}$	$\frac{+5.4}{6}$	+0.2	$\frac{0.0}{4.6}$
	$\frac{+7.2}{11.5}$	$\frac{+7.0}{9}$	+1.5		$\frac{+1.5}{5.4}$
	$\frac{+7.2}{11.5}$	$\frac{+5.1}{8}$	+0.6		$\frac{0.0}{4.6}$
		$\frac{+6.8}{11.3}$	+1.0		$\frac{+1.1}{5.2}$
	$\frac{+6.5}{11.2}$	$\frac{+6.5}{7}$	$\frac{+4.0}{3.0}$	0.0	$\frac{+1.5}{5.4}$
	$\frac{+5.8}{10.8}$	$\frac{+6.0}{8}$	$\frac{+5.0}{6}$	+1.0	$\frac{+3.0}{6.1}$
	$\frac{+5.5}{10.7}$	$\frac{+6.3}{7.5}$	$\frac{+3.5}{3.5}$	+0.2	$\frac{+0.3}{3}$
					$\frac{+1.4}{5.3}$

Station	-	H. I.	+	Elevation Top of Pipe	Grade Rod
24+80		402.95	5.45	397.50	9.4
25+00			5.26	397.60	9.2
B.M.#9			3.12	399.83	
25+50			5.41	397.84	9.4
26+00			6.78	396.17	10.7

+3.94

Hayler X
Burk-Rod 7.0
Lockhart 4.6
4-28-23 9

L	±	R
$\frac{+4.4}{10.1}$	+0.7	$\frac{+0.5}{3}$ $\frac{+1.6}{5.4}$
$\frac{+4.8}{10.3}$	$\frac{+6.0}{8}$ $\frac{4.5}{4.5}$ $\frac{+1.0}{3}$ $\frac{+1.1}{2}$	0.0 Fill
On top of flange at top of valve 4" Air Valve		
$\frac{+5.3}{10.6}$	$\frac{+6.2}{8}$ $\frac{+4.0}{4.5}$ $\frac{+1.2}{2.0}$ $\frac{+1.2}{2}$	0.0 Fill
$\frac{+5.2}{10.5}$	$\frac{+6.3}{8}$ $\frac{+4.2}{5}$ $\frac{+1.0}{3}$ $\frac{+0.8}{2}$	0.0 Fill

see book 1139-1
✓ ✓ 1123-

Levels \pm of Alley between Pacific & Oliver
Commencing at \pm of North & South alley between
Bayard & Cass, and running to 40 West of Ingraham.
B.M. Pacific & Bayard S.E. Cor top of hydrant Elev = 462.
B.M. by Fred Miller.

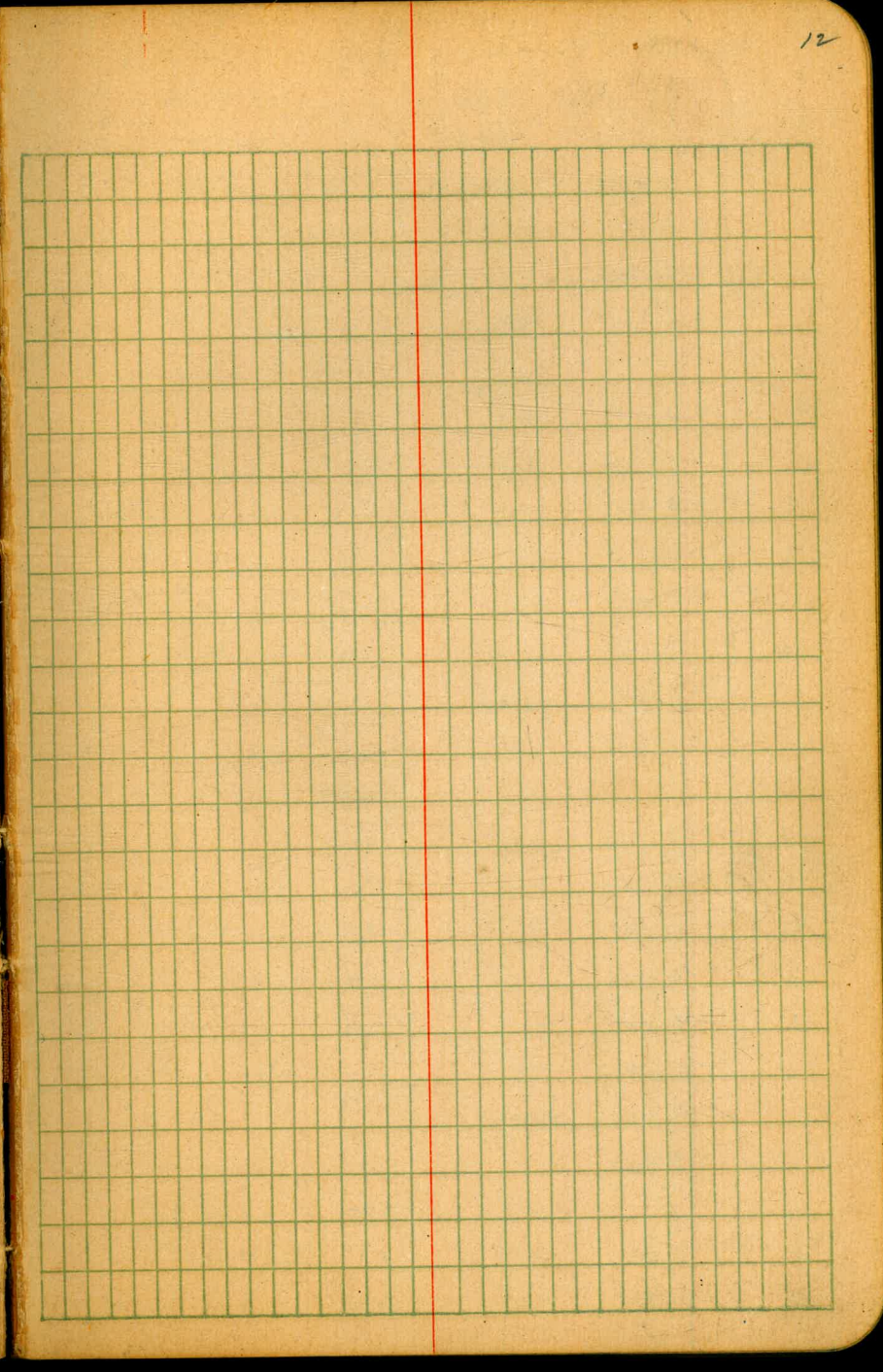
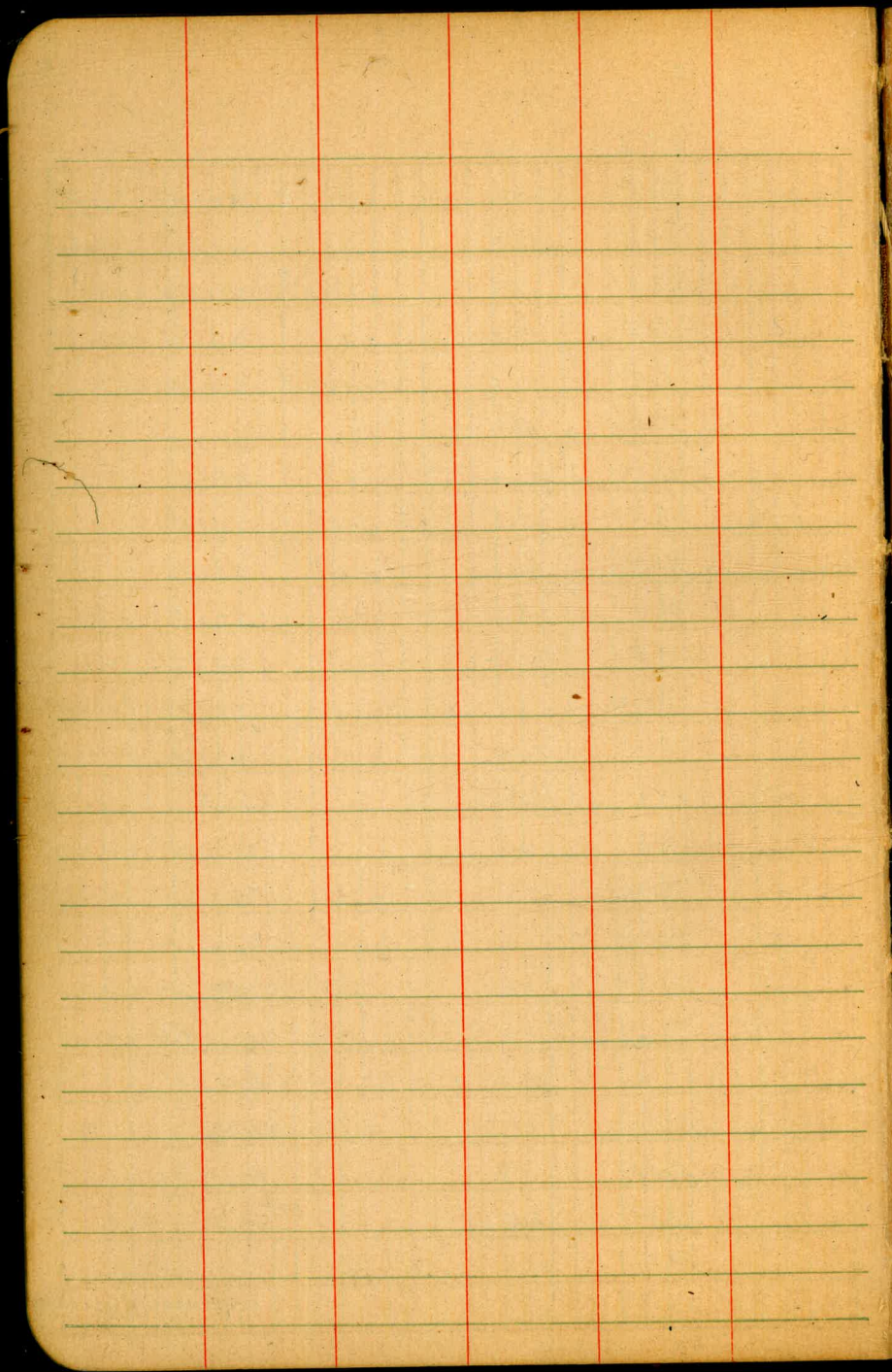
	+	π	-	
	4.52	9.14		4.62 BM
00 See above.			4.4	4.74
+10			2.8	5.34
1+00			3.4	5.74
1+00			3.3	5.84
2+00			3.2	5.94
2+00			4.2	4.94
#	1.16	6.57	3.73	5.41
3+00			2.0	3.97
3+50			2.6	3.97
3+57 $\frac{5}{8}$ = W.L. Cass			3.3	3.27
3+59			4.1	2.47
3+80			5.2	1.37
3+87 $\frac{5}{8}$ = W.L. Concrete Pavement			4.79	1.78
4+07 $\frac{5}{8}$ = E.L. " "			4.72	1.85
4+17			5.2	1.35
4+22			4.2	2.35
4+27			4.9	1.65
4+67 $\frac{5}{8}$ = 00 = E.L. Cass.			5.0	1.55
0+00				

	+	π	-	
0+00			5.7	0.85
1+00			6.8	-0.25
1+00			7.4	-0.85
2+00			7.7	-1.15
2+00			7.5	-0.95
#	6.18	5.82	6.93	-0.36
3+00			6.5	-0.68
3+50			6.1	-0.88
4+00			5.7	0.12
4+00			5.1	0.72
5+00 = W.L. Davies St.			4.9	0.92
5+17			4.8	1.02
5+21			5.3	0.52
5+20 = E. Davies			4.0	1.22
5+05			5.4	0.42
5+58			4.7	1.12
5+80 = 00 = E.L. Davies St.				
0+00			5.0	0.82
1+00			4.9	0.92
1+00			4.0	1.82
2+00			2.8	3.02
#	10.27	13.88	2.21	2.61
2+00			9.7	4.18
2+00			8.2	5.68

	+	π 13.88	-	
3+10			7.0	6.88
4+0			5.9	7.98
4+10			4.5	9.38
5+0 = W.L. Everts St.			4.0	9.88
5+40 = #			3.2	10.68
5+80 = E.L. Everts St. = 0+0			2.2	11.68
0+10			1.0	12.88
#	6.91	20.79	0.00	13.88
0+90			6.2	14.59
1+0			6.4	14.39
+25			7.4	13.39
1+10			6.7	14.09
2+0			6.3	14.49
2+10			5.5	15.29
3+0			5.0	15.79
3+10			4.6	16.19
4+0			4.5	16.29
4+10			4.5	16.29
5+0 = W.L. Faruel St.			3.4	17.39
5+40 = #			2.8	17.99
#	9.77	28.23	2.33	18.46
5+80 = 0+0 = E.L. Faruel St.			3.6	18.63
0+10			8.6	19.63
1+0			7.3	20.93
1+10			6.2	22.03
2+0			5.2	23.03

	+	π 28.23	-	
1+10			4.5	23.73
3+0			4.2	24.03
3+10			4.2	24.03
4+0			4.1	24.13
4+10			4.2	24.03
#	5.35	29.95	3.63	24.60
5+0 = W.L. Gresham St.			5.9	24.05
5+40 = #			6.1	23.85
5+80 = E.L. Gresham St. = 0+0			6.4	23.55
0+50			6.1	23.85
1+0			5.4	24.55
1+10			4.3	25.65
2+0			2.3	27.65
#	12.27	42.22	0.5	29.95
2+10			11.6	30.62
3+0			8.5	30.72
3+10			3.8	38.42
4+0			2.9	39.32
#	11.39	53.61	0.00	42.22
4+10			11.4	42.21
5+0 = W.L. Haines St.			9.2	44.41
5+40 = # Haines			7.1	46.51
5+80 = 0+0 = E.L. Haines St.			5.1	48.51
#			0.48	53.13

Nails in
one Cucalyptus in alley



Section of Long Branch from Guizot to Verice
 10' Cbs 7 1/2 Cbs
 3.03 154.41
 July 13th 25
 Donnatt
 131.55
 Northern

3.27	145.14	12.54	1121.87
E.L. Sunset Grove - W.L. Verice.			
S.C.		7.64	137.50 Pipe Car Verice & Long Branch
cb		8.5	136.6
1/2		9.1	136.0
E		9.9	135.2
1/2		10.6	134.5
cb		11.3	133.8
N.C.		12.28	132.86 Verice & Long Branch Pipe Car
+10		13.3	131.8
	0+20		
-10		11.6	133.5
N.C.		10.7	134.4
cb		9.6	135.5
1/2		9.0	136.1
E		8.1	137.0
1/2		7.2	137.9
cb		6.4	138.7
S.C.		5.4	139.7
	0+10		
S.C.		3.7	141.4
cb		4.7	140.4
1/2		5.5	139.6
E		6.3	138.8

+ π
 125.14

- 50' Wide 13

Long Branch			
1/2		7.1	138.0
cb		7.8	137.3
N.C.		8.9	136.2
+10		9.8	135.3
	0+75		
-10		7.9	137.2
N.C.		6.9	138.2
cb		5.8	139.3
1/2		5.1	140.0
E		4.4	140.7
1/2		3.6	141.5
cb		2.9	142.2
S.C.		2.0	143.1
	1+00		
S.C.		0.3	144.8
cb		1.2	143.9
1/2		1.8	143.3
E		2.6	142.5
1/2		3.4	141.7
cb		4.1	141.0
N.C.		5.2	139.9
+10		6.3	138.8
	1+20		
-10		4.6	140.5
N.C.		3.8	141.3

	+	π 145.14 ✓	-	
cb			2.7	142.2 ✓
1/4			1.9	143.2 ✓
E			1.0	144.1 ✓
1/4			0.0	145.1 ✓
#	9.94	151.58 ✓	3.50	141.64 ✓
cb			5.6	146.0 ✓
S.L.			4.8	146.8 ✓
		1+10		
S.L.			3.6	148.0 ✓
cb			4.2	147.2 ✓
1/4			5.0	146.6 ✓
E			6.0	145.6 ✓
1/4			6.8	144.8 ✓
cb			7.4	144.2 ✓
N.L.			8.5	143.1 ✓
+10			9.4	142.2 ✓
		1+75		
-10			7.8	143.8 ✓
N.L.			6.9	144.7 ✓
1/4			5.9	145.7 ✓
cb			5.4	146.2 ✓
E			4.6	147.0 ✓
1/4			4.2	147.4 ✓
cb			3.6	148.0 ✓
S.L.			2.8	148.8 ✓
		2+10		

	+	π 147.08	-	
				50' wide.
				14
				Long Branch
S.L.			2.2	149.4 ✓
cb			2.9	148.7 ✓
1/4			3.3	148.3 ✓
E			3.7	147.9 ✓
1/4			4.3	147.3 ✓
cb			4.9	146.7 ✓
N.L.			5.8	145.8 ✓
+10			6.6	145.0 ✓
		2+25		
-10			5.8	145.8 ✓
N.L.			5.2	146.4 ✓
cb			4.5	147.1 ✓
1/4			4.1	147.5 ✓
E			3.4	148.2 ✓
1/4			2.9	148.7 ✓
cb			2.6	149.0 ✓
S.L.			2.4	149.2 ✓
		2+10		
S.L.			2.2	149.4 ✓
cb			2.5	149.1 ✓
1/4			2.9	148.7 ✓
E			3.3	148.3 ✓
1/4			3.8	147.8 ✓
cb			4.2	147.4 ✓
N.L.			4.7	146.9 ✓

+

π
156.58

2+75

N.W.			4.9	146.7	✓
cb			4.5	147.1	✓
1/4			4.2	147.4	✓
⊕			4.1	147.5	✓
1/4			4.0	147.6	✓
cb			3.7	147.7	✓
S.W.			3.5	148.1	✓
#	0.65	147.01 3+03	52.2	146.36	
N.W.			0.9	146.1	✓
cb			0.6	146.4	✓
1/4			0.8	146.6	✓
⊕			0.2	146.8	✓
1/4			0.1	146.9	✓
⊕			0.0	147.0	✓
S.W.			0.0	147.0	✓
		3+06			
S.W.			0.9	146.1	✓
cb			1.4	145.6	✓
1/4			1.7	145.3	✓
⊕			1.8	145.2	✓
1/4			2.1	144.9	✓
cb			2.4	144.6	✓
N.W.			2.3	144.7	✓
		3+25			

+

π
147.01

50 Wide.

10

Long Branch:

N.W.			3.3	143.7	✓
+4			2.9	144.1	✓
+7			3.7	143.3	✓
cb			3.7	143.3	✓
1/4			3.6	143.4	✓
⊕			3.4	143.6	✓
1/4			3.2	143.8	✓
cb			2.9	144.1	✓
+3			2.3	144.7	✓
S.W.			2.3	144.7	✓
		3+50			
S.W.			4.8	142.2	✓
+7			5.0	142.0	✓
cb			5.3	141.7	✓
1/4			5.4	141.6	✓
⊕			5.7	141.3	✓
1/4			5.5	141.5	✓
cb			5.9	141.1	✓
N.W.			5.8	141.2	✓
		3+75			
N.W.			8.4	138.6	✓
+4			8.4	138.6	✓
+6			8.9	138.1	✓
cb			9.0	138.0	✓
1/4			8.8	138.2	✓

π
147.01 ✓

€			9.6	138.4 ✓
1/2			8.3	138.7 ✓
cb			7.9	139.1 ✓
S.U.			7.5	139.5 ✓
		4+20		
S.U.			10.4	136.6 ✓
cb			10.7	136.3 ✓
1/2			11.0	135.5 ✓
€			12.0	135.0 ✓
1/2			12.0	135.0 ✓
cb			12.1	134.9 ✓
+5			12.0	135.0 ✓
N.W.			11.3	135.7 ✓
#	0.56	135.00 ✓	12.57	134.44
		9+25		
N.L.			2.6	132.4 ✓
+3			2.5	132.5 ✓
+4			2.9	132.1 ✓
cb			3.0	132.0 ✓
1/2			3.0	132.0 ✓
€			2.8	132.2 ✓
1/2			2.3	132.7 ✓
+5			2.3	132.7 ✓
cb			1.8	133.2 ✓
S.U.			1.4	133.6 ✓
		4+20		

π
135.00

50' Wide.

16

Sec		130.6 ✓ Long Branch
	9.4	
+2	4.4	130.6 ✓
+4	5.0	130.0 ✓
cb	5.4	129.6 ✓
1/2	5.5	129.5 ✓
€	6.0	129.0 ✓
1/2	6.1	128.9 ✓
cb	6.1	128.9 ✓
+5	6.1	128.9 ✓
+7	5.6	129.4 ✓
N.W.	5.5	129.5 ✓
		4+70
N.W.	8.4	126.6 ✓
+2	8.4	126.6 ✓
+4	9.3	125.7 ✓
cb	9.3	125.7 ✓
1/2	8.9	126.1 ✓
€	8.8	126.2 ✓
1/2	8.8	126.2 ✓
cb	8.5	126.5 ✓
+3	8.4	126.6 ✓
+6	7.1	127.9 ✓
S.U.	7.1	127.9 ✓
		4+95
S.U.	9.1	125.9 ✓
+3	9.2	125.8 ✓

	+	π 135.00	-	
+7			10.2	124.8 ✓
Cb			10.3	124.7 ✓
1/2			10.5	124.5 ✓
E			10.7	124.3 ✓
1/4			10.9	124.1 ✓
Cb			11.1	123.9 ✓
+8			11.1	123.9 ✓
+8			10.8	124.2 ✓
N.L.			10.8	124.2 ✓

4+978 = W.L. Sunset Grove Tract.

N.L.			11.2	123.8 ✓
Cb			10.0	124.5 ✓
1/4			10.8	124.2 ✓
E			10.7	124.3 ✓
1/2			10.6	124.4 ✓
Cb			9.8	125.2 ✓
S.L.			9.2	125.6 ✓

5+25

S.L.			13.0	122.0 ✓
#	0.41	123.13 ✓	12.28	122.72 ✓
Cb			1.5	121.6 ✓
1/2			1.9	121.2 ✓
E			2.0	121.1 ✓
1/4			2.3	120.8 ✓
Cb			2.7	120.4 ✓
N.L.			2.7	120.4 ✓

	+	π 123.13	-	
				50' Wide.
				17
				5+10
				Long Branch
N.L.			5.9	117.2 ✓
Cb			5.7	117.4 ✓
1/4			5.9	117.2 ✓
E			5.3	117.8 ✓
1/2			5.1	118.0 ✓
Cb			4.6	118.5 ✓
S.L.			4.1	119.0 ✓
				5+25
S.L.			7.4	115.7 ✓
+9			7.7	115.4 ✓
Cb			8.0	115.1 ✓
+3			8.8	114.3 ✓
1/2			8.8	114.3 ✓
E			8.8	114.3 ✓
1/4			9.3	113.8 ✓
+4			9.4	113.7 ✓
Cb			9.0	114.1 ✓
N.L.			9.3	113.8 ✓
#	0.12	110.89	12.36	110.77
				6+20
N.L.			0.8	110.1 ✓
Cb			0.6	110.5 ✓
+4			1.0	109.9 ✓
1/2			0.8	110.1 ✓
E			0.4	110.5 ✓

	+	π 110.89 ✓	-	
1/4			0.4	110.5 ✓
+2			0.2	110.7 ✓
cb			+1.0	111.9 ✓
S.L.			+1.3	112.2 ✓
			6+20	
S.L.			2.3	108.6 ✓
+9			2.6	108.3 ✓
cb			3.0	107.9 ✓
+2			4.0	106.9 ✓
1/4			4.0	106.9 ✓
+			4.0	106.9 ✓
1/4			4.4	106.5 ✓
+4			4.6	106.3 ✓
cb			4.3	106.6 ✓
N.L.			4.2	106.7 ✓
			6+50	
N.L.			8.0	102.9 ✓
cb			7.8	103.1 ✓
1/4			7.4	103.5 ✓
\oplus			7.2	103.7 ✓
1/4			7.2	103.7 ✓
+6			6.6	104.3 ✓
cb			6.2	104.7 ✓
S.L.			5.7	105.2 ✓
			6+75	
S.L.			8.6	102.3 ✓

	+	π 110.89	-	
cb			9.0	101.9 ✓
1/4			7.5	101.4 ✓
+			9.5	101.4 ✓
1/4			10.6	100.3 ✓
+2			11.0	99.9 ✓
cb			10.5	100.4 ✓
N.L.			11.0	99.9 ✓
			7+00	
S.L.			11.1	99.8 ✓
cb			11.6	99.3 ✓
1/4			12.0	98.9 ✓
\oplus			12.2	98.7 ✓
1/4			12.1	97.8 ✓
+4			12.4	97.5 ✓
cb			12.0	97.9 ✓
N.L.			12.5	97.3 ✓
#	202	100.17 ✓	12.7d	98.15 ✓
			7+35	
N.L.			6.1	94.1 ✓
cb			5.7	94.5 ✓
1/4			5.7	94.5 ✓
\oplus			5.1	95.1 ✓
1/4			5.0	95.2 ✓
+5			4.7	95.5 ✓
cb			4.0	96.2 ✓
S.L.			3.6	96.6 ✓

50' wide 19

1019
Long Branch

74386 = E.W. of Guizot St

	+	π 100.17	-	
Sill		8.3	91.9	✓
Cement Curb		8.60	91.57	✓
Gutter		8.6	91.6	✓
1/2		8.6	91.6	✓
ε		8.7	91.5	✓
1/2		8.9	91.3	✓
Gutter		9.1	91.1	✓
Cement Curb		9.13	91.04	✓
N.W.		8.8	91.4	✓
#		8.19	91.98 = 9186 C6 Long branch @ Guizot See Page 57:	

Dannan
Bliss
Northern.

July 14th 1925

134.94

20

Levels on sewer line to serve B.L. 1 Sunset Grove Tract.

00 = Most Westerly Cor of lot 8, thence across Lot 6, thence on
of alley to existing M.H.

	+	π	-	
	4.93	106.31		151.38 T.P. Curb Cor Brighton & Venice. See page 58 Grade.
0+00			4.5	151.8 146.5
0+42.5 = (Easterly line of dwelling.	4.2			152.1
# Tunnel	3.29	105.26	4.04	151.87
0+62.5 = (Westerly line of dwelling.	4.2			151.1
1+00			5.4	149.9
1+10			7.6	147.7 Bk 142.0
1+50				
1+82			10.5	144.8
#	1.14	147.38	9.02	146.24
1+90 = Upper end of existing open ditch.				
1+90 On top stake: NB. these stakes not set for alignment.			3.12	(144.26) 138.51
1+90 Bottom of ditch.			8.2	139.2
2+40 Top stake			7.48	(139.90) 134.15
2+40 Bottom ditch.			13.0	134.4
2+90 Top stake.			12.44	(134.94) 129.79
#	0.00	132.94	12.44	134.94
2+90 Bottom of ditch.			5.2	129.7
2+40 Top str.			4.57	(130.37) 125.43
3+40 Bottom ditch.			9.3	125.6
3+90 = Division line between Sunset Grove & Ocean View.				
3+90 = Top stake			9.44	(125.50) 121.07

3+90 Bottom ditch			13.4	121.5
#	0.71	126.21	7.44	125.50
4+25 = Existing M.H. On Rim	4.70			121.51 118.0 +3.51
4+25 = Concrete Bottom of M.H.	2.90			119.2 118.0
4+25 = Bottom of 5' opening M.H.	16.00			
#			8.86	117.25 = 117.16 See page 58

144.05
5.08
149.13

Bk 142.0	1+10	1+90
142.0	132.0	133.51
7.7	6.5	11.5
+3.6	4.0	5.4
+5.37	6.3	5.0
		5.75

+5.75

+5.75

+5.15

+4.94

+4.43

Levels on sewer line to serve Blk 2 Sunset Grove: from 0+00 =
E of the Northeast to Southwest alley in Blk 2, to M.H. in
Ocean View

	+	π	-	
	6.87	139.73		122.86 Pipe Cor Page 13
0+00			10.2	129.5
#			10.23	129.50 on lot stake.
0+50			6.8	132.9
1+00			3.9	35.8
1+50			2.1	37.6
2+00			3.1	36.6
2+50			7.0	32.7
3+00			12.3	27.4
#	0.12	127.81	12.04	127.69
3+50			5.7	22.1
3+82 ^W = Division line between Sunset Grove & Ocean View.				
3+82 ^W			9.7	18.1
4+08 ^L = Manhole Ocean View Alley			12.08	115.23
4+08 ^L = to Concrete Bottom			16.69	111.12
4+08 ^L = to Bottom of S' opening.			19.18	108.63
#			5.09	122.72 = T.P. 122.72 See Page 17.

Dormon
Bliss July 14th 1925
Northern

Levels on Sewer Line, commencing at 0+00 = intersection
of the \pm of the alleys in Blk E Sunset Grove Tract, to Sta
1+32.5 = \pm of Muir St with \pm of alley, thence to M.H.
on \pm of Muir St in Ocean View tract.

	0.07	129.57		129.50	Lot Stake Page 21
0+00			0.0	129.6	
0+50			5.7	123.9	
1+00			11.4	118.2	
#	3.45	120.81	12.21	117.36	Lot stake
1+32.5 = 00 = \pm Muir			6.5	114.3	
0+50			4.5	116.3	
1+00			1.7	119.1	
#	5.56	126.09	0.28	120.53	
1+50			4.3	121.8	
2+00			3.4	122.7	
2+50			5.0	120.7	
#	0.45	117.97	8.57	117.52	
3+00			1.1	116.9	
3+50			5.9	112.1	
3+82.5	Division line between Sunset Grove & Ocean View.				
3+82.5			9.7	108.3	
4+17.2 = Existing Manhole \pm of Muir St.					
#	8.69	115.86	10.80	107.17	
4+17.2 = Rim of M.H.			11.92	103.94	
4+17.2 = Concrete			17.02	98.34	

+
115.86

22

4+17.2 = \pm bottom of S opening 20.14 95.72
0.65 115.21 = 115.23 M.H. Rim
Sec. Page 21

50' St 10' Cbs 7 1/2' Qts.
 July 15th 25
 Donnan.
 Bliss.
 Northern.

Section of Muir Ave from Venice to Guizat.

	+	-
	002	117.38 ✓
0+00 = N.C. Venice St		117.36 T.P. Lat stake See page 32.
-10	14.3	103.1 ✓
N.C.	13.0	104.4 ✓ ✓
cb	11.4	106.0 ✓
1/4	10.1	107.3 ✓
E	9.1	108.3 ✓
1/4	8.1	109.3 ✓
cb	7.0	110.4 ✓
S.L.	5.7	111.7 ✓
	0+50	
-10	11.1	106.3 ✓
N.C.	9.9	107.6 ✓ ✓
cb	8.1	109.3 ✓
1/4	7.1	110.3 ✓
E	6.3	111.1 ✓
1/4	5.1	112.3 ✓
cb	4.1	113.3 ✓
S.L.	3.0	114.4 ✓
	1+00	
S.L.	0.8	116.6 ✓
cb	1.7	115.7 ✓
1/4	2.7	114.7 ✓
E	3.6	113.8 ✓

+
 π
 117.38

Muir Ave 23

1/4		4.4	113.0 ✓
cb		5.3	112.1 ✓
N.C.		7.0	110.4 ✓ ✓
+10		8.4	109.0 ✓
#1	31N	120.51 ✓	002 117.36 ✓
		1+50	
-10		9.2	111.3 ✓
N.C.		8.1	112.4 ✓ ✓
cb		6.4	114.1 ✓
1/4		5.4	115.1 ✓
E		4.7	115.8 ✓
1/4		3.7	116.8 ✓
cb		2.6	117.9 ✓
S.L.		1.7	118.8 ✓
		2+00	
S.L.		+1.1	121.6 ✓
cb		+0.1	120.6 ✓
1/4		1.1	119.4 ✓
E		2.4	118.3 ✓
1/4		3.0	117.5 ✓
cb		4.0	116.5 ✓
N.C.		5.5	115.0 ✓ ✓
+10		6.9	113.6 ✓
#1	624	125.91 ✓	0.84 119.67 ✓

	+	π 125.91	-	
		2+00		
N.C. -10			10.1	115.8 ✓
N.C.			8.5	117.4 ✓
cb			6.7	119.2 ✓
1/4			5.9	120.0 ✓
E			5.1	120.8 ✓
1/4			4.0	121.9 ✓
cb			2.9	123.0 ✓
S.C.			1.7	124.2 ✓
#	2.22	124.97	3.16	122.75 ✓
		3+03		
S.C.			+1.1	126.1 ✓
cb			0.1	124.9 ✓
1/4			0.9	124.1 ✓
E			1.9	123.4 ✓
1/4			2.7	122.3 ✓
cb			3.6	121.4 ✓
N.C.			5.3	119.7 ✓
+10			6.5	118.5 ✓
		3+06		
N.C. -10			6.8	118.2 ✓
N.C.			5.5	119.5 ✓
cb			4.0	121.0 ✓
1/4			3.0	121.5 ✓
E			2.6	122.4 ✓
1/4			1.7	123.3 ✓
cb			1.0	124.0 ✓

	+	π 124.97	-	
S.C.			+0.5	125.5 ✓
		3+25		
S.C.			+0.3	125.3 ✓
cb			1.3	123.7 ✓
1/4			2.0	123.0 ✓
E			2.5	122.5 ✓
1/4			3.4	121.6 ✓
cb			4.3	120.7 ✓
N.C.			5.7	119.3 ✓
-10			7.1	117.9 ✓
		3+30		
N.C. -10			7.4	117.6 ✓
N.C.			6.1	118.9 ✓
cb			5.1	119.9 ✓
1/4			4.3	120.7 ✓
E			3.5	121.5 ✓
1/4			3.0	122.0 ✓
cb			2.3	122.7 ✓
S.C.			0.8	124.2 ✓
		3+35		
S.C.			2.5	122.5 ✓
cb			3.6	121.4 ✓
1/4			4.3	120.7 ✓
E			4.9	120.1 ✓
1/4			5.6	119.4 ✓
cb			6.4	118.6 ✓

Muir Ave 24

	+	π 124.97	-	
N.L.			7.4	117.6 ✓
+10			8.5	116.5 ✓
		4+00		
N.L. -10			10.0	118.0 ✓
N.L.			8.6	116.4 ✓
cb			8.1	116.9 ✓
1/4			7.3	117.9 ✓
+			6.4	118.6 ✓
1/4			5.9	119.9 ✓
cb			5.3	119.7 ✓
S.L.			4.3	120.7 ✓
		4+25		
S.L.			6.5	118.5 ✓
cb			7.4	117.6 ✓
#	0.09	118.72	6.34	118.63
1/4			1.9	116.8 ✓
+			2.6	116.1 ✓
1/4			2.2	115.5 ✓
cb			3.9	114.8 ✓
N.L.			4.9	113.8 ✓
+10			6.2	112.5 ✓
		4+50		
N.L. -10			8.4	110.3 ✓
N.L.			7.4	111.3 ✓
cb			6.4	112.3 ✓
1/4			5.6	113.1 ✓

	+	π 118.72	-	
+			4.9	113.8 ✓
1/4			4.1	114.6 ✓
cb			3.5	115.2 ✓
S.L.			2.5	116.2 ✓
		4+75		
S.L.			5.5	113.2 ✓
cb			6.4	112.3 ✓
1/4			7.0	111.7 ✓
+			7.6	117.1 ✓
1/4			8.3	110.4 ✓
cb			9.0	109.7 ✓
N.L.			9.9	108.8 ✓
+10			11.0	107.7 ✓
4+97 = Division line between Sunset Grove Et Ocean View.				
-10			12.3	105.4 ✓
N.L.			12.7	106.0 ✓
cb			11.5	107.2 ✓
1/4			10.9	107.8 ✓
+			10.3	108.4 ✓
1/4			9.7	109.0 ✓
cb			9.0	109.7 ✓
S.L.			8.3	110.4 ✓
#			12.55	106.19 Pipe Div line Low side.
#			3.98	115.24 = 115.23 M.H. Rivin See page 21

Continued Back 1128 Page 58

32nd St 60' Wide: 10' Cbs, 10' Qts: Woolman Ave South.

Bliss.
Northern.

	3.83	64.23	60.40 S.W. 32nd at Woolman Top of Hydrant Miller.
	+00 = S.L. of Woolman Ave.		
		64.23	
W.C.		6.0	58.7 ✓
C6		6.3	57.9 ✓
+2		6.8	57.4 ✓
1/4		6.8	57.4 ✓
€		6.8	57.4 ✓
+7		6.9	57.3 ✓
1/4		6.6	57.6 ✓
+8		7.1	57.1 ✓
C6		6.8	57.4 ✓
E.L.		6.7	57.5 ✓
	0+07		
-10		8.5	55.7 ✓
E.L.		8.8	55.4 ✓
C6		9.2	55.0 ✓
1/4		9.0	55.2 ✓
+5		8.1	56.1 ✓
€		7.6	56.6 ✓
1/4		7.5	56.7 ✓
+5		7.6	56.6 ✓
C6		8.5	55.7 ✓
W.C.		8.5	55.7 ✓
+10		7.8	56.4 ✓
	0+15		
-10		7.3	56.9 ✓
W.C.		8.0	56.7 ✓

64.23 ✓

26

64.23

C6	7.0	55.4 ✓
+6	8.4	55.8 ✓
1/4	8.4	55.8 ✓
€	8.4	55.8 ✓
1/4	9.2	55.6 ✓
+5	10.4	53.8 ✓
C6	10.6	53.6 ✓
E.L.	10.4	53.8 ✓
+10	10.3	53.9 ✓
	0+100	
-10	11.6	52.4 ✓
E.L.	11.3	52.9 ✓
+5	11.0	53.2 ✓
C6	10.2	54.0 ✓
1/4	8.6	55.6 ✓
€	7.9	56.3 ✓
1/4	7.5	57.2 ✓
C6	7.4	56.8 ✓
+3	7.6	56.6 ✓
W.C.	5.7	58.5 ✓
+10	4.3	59.9 ✓
	0+70	
W.C.	3.4	60.8 ✓
+5	3.9	60.3 ✓
+8	6.1	58.1 ✓

	+	π 64.23 ✓	-
cb			6.1 581 ✓
1/4			6.3 579 ✓
+			6.8 574 ✓
1/4			7.6 566 ✓
+5			7.7 565 ✓
cb			8.3 559 ✓
E.C.			10.2 540 ✓
+10			11.6 526 ✓
	0474		
-10			9.0 552 ✓
E.C.			8.0 56 ✓
cb			7.3 569 ✓
1/4			7.4 528 ✓
+			6.6 576 ✓
1/4			6.0 582 ✓
cb			5.8 584 ✓
+3			6.0 582 ✓
+5			3.8 604 ✓
W.L.			3.4 608 ✓
W.L.	1400		
W.L.			2.1 621 ✓
+6			2.8 614 ✓
+8			4.2 600 ✓
cb			4.4 594 ✓
1/4			4.5 597 ✓
+			5.0 592 ✓

	+	π 64.23 ✓	-
1/4			6.9 582 ✓
+1			5.4 588 ✓
cb			6.7 575 ✓
E.L.			7.3 562 ✓
+10			8.0 562 ✓
		1+20 ✓	
-10	On lawn		7.0 567 ✓
-1	" " Edge of		7.3 569 ✓
E.L.			6.0 582 ✓
+5			5.5 582 ✓
cb			4.6 546 ✓
+9			4.0 602 ✓
1/4			4.4 598 ✓
+			4.0 602 ✓
1/4			3.4 608 ✓
cb			3.5 607 ✓
+3			3.4 608 ✓
+5			1.8 624 ✓
W.L.			1.3 629 ✓
		1400	
W.L.			1.9 623 ✓
+8			2.2 620 ✓
+9			3.3 609 ✓
cb			3.6 601 ✓
+5			3.1 611 ✓

32nd st. 27

+

 π
64.23 ✓64.2

1/4		3.2	61.0	✓
E		3.6	60.6	✓
1/4		4.0	60.2	✓
cb		4.0	59.7	✓
+5		5.3	58.9	✓
E.L.		5.6	58.6	✓
+1	On lawn	7.4	56.8	✓
+10	" "	7.6	56.6	✓
	1+75			
-10		7.0	57.2	✓
-1		6.8	57.4	✓
E.L.		6.3	57.9	✓
cb		4.8	59.4	✓
1/4		4.6	59.6	✓
cb E		4.3	59.9	✓
1/4		3.8	60.4	✓
cb		4.1	60.1	✓
+2		3.1	61.1	✓
W.L.		3.1	61.1	✓
	2+00			
W.L.		3.9	60.3	✓
cb		4.0	60.2	✓
+1		5.1	59.1	✓
1/4		4.9	59.8	✓
E		5.0	59.2	✓
1/4		5.3	58.9	✓

+

 π
64.23 ✓64.2

32nd St 28

cb		6.6	57.6	✓
E.L.	On lawn	6.9	57.3	✓
+10	" "	7.1	57.1	✓
	2+25			
-10	On lawn	7.0	56.7	✓
E.L.	" "	7.0	56.7	✓
cb		6.7	57.5	✓
1/4		6.1	57.1	✓
E		5.6	58.6	✓
1/4		5.3	58.9	✓
+9		5.5	58.7	✓
cb		4.7	59.5	✓
W.L.		4.8	59.4	✓
	2+00			
W.L.		5.6	58.6	✓
cb		5.6	58.6	✓
+1		6.6	57.4	✓
1/4		6.1	58.1	✓
cb E		6.2	58.0	✓
1/4		6.7	57.5	✓
cb		6.3	57.9	✓
E.L.	S Edge lawn	6.9	57.3	✓
+10	" " "	7.4	56.8	✓
	2+75			
-10	In Flower Garden	7.2	56.8	✓
E.L.	" " "	7.2	57.0	✓

+ π
64.23 ✓64.2

Cb	7.1	57.1	✓
1/2	7.0	57.2	✓
+	6.9	57.3	✓
1/2	6.6	57.6	✓
+9	7.2	57.0	✓
Cb	6.1	58.1	✓
W.L.	5.7	58.5	✓
2+0-0 = N.C. Valle on the West (80' St. 14' Cbs, 13' Cbs)			
W.L.	6.2	58.0	✓
Cb	6.7	57.5	✓
+1	7.8	56.4	✓
1/2	7.4	56.8	✓
Cb	7.6	56.6	✓
1/2	7.8	56.0	✓
Cb	7.7	56.5	✓
E.L. In Flower Garden.	7.7	56.5	✓
N. Cb Valle			
E.L.	8.0	56.2	✓
Cb	8.3	55.9	✓
1/2	8.3	55.9	✓
+	8.0	56.2	✓
1/2	7.8	56.4	✓
+9	8.3	55.9	✓
Cb	7.3	56.9	✓
W.L.	6.6	57.6	✓

N. 1/2 Valle

+ π
64.23 ✓64.2

32nd St 29

W.L.	7.0	57.2	✓
Cb	7.7	56.5	✓
1/2	8.0	56.2	✓
+	8.3	55.9	✓
+8	8.8	55.4	✓
1/2	8.2	56.0	✓
Cb	8.2	56.0	✓
E.L. In Flower Garden.	8.6	56.6	✓
+ Valle			
E.L. In Flower Garden.	9.1	55.1	✓
Cb	8.7	55.5	✓
1/2	9.0	55.2	✓
+9	8.9	55.5	✓
+	8.7	55.5	✓
1/2	8.7	55.5	✓
+8	8.8	55.4	✓
Cb	8.3	55.9	✓
W.L.	7.2	57.0	✓
S 1/2 Valle			
W.L.	7.6	56.6	✓
Cb	8.8	55.4	✓
+5	9.2	55.0	✓
1/2	9.2	55.0	✓
+	9.4	54.8	✓
+8	10.3	53.9	✓
+9	9.7	54.5	✓

+

π
64.23 ✓

1/4			<u>64.2</u> 9.7	54.5 ✓
#	0.29	50	77	87.5
cb			<u>55.8</u> 1.2	55.48 = 3 Nails Tel pole SW. Valle @ 32nd.
E.L.			1.4	54.4 ✓

S curb of Valle.

E.L.			2.1	53.7 ✓
cb			2.0	53.8 ✓
1/4			2.0	53.8 ✓
+2			2.4	53.4 ✓
±			1.6	52.4 ✓
1/4			1.3	52.5 ✓
+9			1.5	52.3 ✓
cb			0.7	55.1 ✓
W.L.			+0.9	56.2

00 = S.L. Valle.

W.L.			0.5	55.3 ✓
cb			1.0	54.8 ✓
+1			2.3	53.5 ✓
1/4			2.1	53.7 ✓
±			2.3	53.5 ✓
1/4			1.9	53.9 ✓
cb			1.7	54.1 ✓
E.L.			3.0	54.8 ✓

0+25

E.L.	In grain Field.		6.9	49.9 ✓
cb			5.4	50.4 ✓

+

π
55.77 ✓

32nd St. 30

1/4			<u>55.8</u> 5.0	50.8 ✓
±			4.4	51.4 ✓
1/2			4.1	51.7 ✓
+7			4.6	51.2 ✓
cb			3.2	52.4 ✓
+4			2.2	53.6 ✓
W.L.			1.6	54.2 ✓
			0+10	
W.L.			2.7	53.1 ✓
+5			2.8	52.0 ✓
cb			5.0	50.8 ✓
+1			6.2	49.5 ✓
1/4			6.2	49.6 ✓
±			6.7	49.1 ✓
1/4			7.0	48.3 ✓
cb			8.3	47.5 ✓
E.L.	In paddock.		9.2	46.6 ✓
	"		9.8	46.2 ✓
	"		12.7	45.1 ✓
-10	In paddock	0+25	11.7	44.1 ✓
E.L.	In paddock.		11.2	44.5 ✓
+8			10.7	45.1 ✓
cb			9.8	46.0 ✓
1/4			8.5	47.3 ✓
±			8.1	47.7 ✓
1/4			7.9	47.8 ✓
+9			6.4	49.0 ✓
cb				

	+	π 50.77 ✓	-		
			<u>55.8</u>		
+3			5.6	50.2	✓
+7			5.4	50.4	✓
W.C.			4.4	51.4	✓
	1400				
E.L. -10	In paddock		12.5	41.3	✓
E.L.	" "		12.5	42.3	✓
C6			13.1	42.7	✓
+1			12.0	43.8	✓
1/2			10.8	45.0	✓
E			10.1	45.7	✓
1/2			9.5	46.3	✓
+7			9.6	46.2	✓
C6			8.3	47.5	✓
+5			7.7	48.1	✓
W.C.			6.5	49.3	✓
	1+20				
W.L.			7.8	48.6	✓
+7			9.7	46.1	✗
C6			10.0	45.4	✗
+1			11.1	44.7	✗
1/2			11.0	44.8	✗
E			11.5	44.3	✗
1/2			12.8	43.0	✗
C6			13.6	42.2	✓
+1			12.5	43.3	✗
E.L.			14.8	41.0	✗

	+	π 50.77 ✓	-		
			<u>55.8</u>		
E.L. +10			15.7	46.1	✗
	1450				
E.L. -10			16.8	39.6	✗
E.L.			15.9	39.9	✗
+9			15.7	40.1	✗
C6			15.0	40.8	✗
1/2			14.4	41.4	✗
E			13.0	42.8	✗
1/2			12.5	43.3	✓
+9			13.0	42.8	✗
C6			11.5	44.3	✓
+4			11.0	44.8	✓
W.C.			9.5	46.3	✓
	1+75				
W.C.			11.5	44.3	✓
+5			12.8	43.0	✓
#	0.35	44	82		
C6			11.30	44.47	snails in Tel
			<u>44.8</u>	44.47	side 32nd st.
			2.4	42.4	✗
+1			3.5	41.3	✗
1/2			3.4	41.4	✗
E			3.0	41.2	✗
1/2			4.9	39.9	✗
C6			5.3	39.5	✗
+2			6.1	38.7	✗
E.L.			6.3	38.5	✓

+
44.82 ✓

44.8

7.0

378 ✓

E.L.+10

1495 On the West = N.L. Martin Ave on the East: 50' Wide: 10' Cbs.

E.L.-10

8.0

368 ✓

E.L.

7.7

37.1 ✓

cb

6.6

38.2 ✓

1/4

6.3

38.5 ✓

+7

5.0

39.8 ✓

±

4.8

40.0 ✓

1/4

4.6

40.1 ✓

+9

4.6

40.2 ✓

cb

3.9

40.9 ✓

W.L.

1.8

43.0 ✓

2405 on West = N. Cb of Martin Ave on the East.

W.L.

2.7

42.1 ✓

cb

4.05

40.3 ✓

+2

5.2

39.6 ✓

1/4

5.1

39.7 ✓

±

5.4

39.4 ✓

+2

5.4

39.2 ✓

1/4

6.6

38.2 ✓

cb

7.4

37.4 ✓

E.L.

8.1

36.7 ✓

E.L.+10

8.8

36.0 ✓

2425 On W = N 1/4 of Martin Ave on E.

E.L.-10

8.8

36.0 ✓

E.L.

8.4

36.4 ✓

+
44.82 ✓

44.8

32nd St. 32

cb

7.8

37.0 ✓

1/4

7.1

37.7 ✓

+7

5.6

39.2 ✓

±

5.6

39.2 ✓

1/4

5.3

39.5 ✓

+8

5.4

39.6 ✓

cb

4.9

39.8 ✓

W.L.

3.2

41.2 ✓

2420 On W = ± Martin on E.

W.L.

3.4

41.2 ✓

cb

5.0

39.8 ✓

±

5.6

39.2 ✓

1/4

5.5

39.3 ✓

±

5.8

39.0 ✓

+2

6.0

38.8 ✓

1/4

7.2

37.6 ✓

cb

7.8

37.0 ✓

E.L.

8.8

36.0 ✓

E.L.+10

9.05

35.3 ✓

2427 On W = S 1/4 of Martin on the East.

E.L.-10

9.2

35.6 ✓

E.L.

8.9

35.9 ✓

cb

8.6

36.8 ✓

1/4

7.0

37.2 ✓

+7

5.8

39.0 ✓

448

E	5.8	390	✓
1/4	5.6	392	✓
+8	5.9	389	✓
cb	5.2	396	✓
W.L.	3.9	409	✓

2+35 on the West = S.C. of Martin On the East.

W.L.	4.0	408	✓
cb	5.5	393	✓
+2	6.2	386	✓
1/4	5.6	392	✓
E	6.0	388	✓
+7	6.3	385	✓
1/4	7.6	372	✓
cb	8.0	363	✓
E.L.	8.9	359	✓
+10	7.2	356	✓

2+45 On the West = S.L. of Martin Ave On the E.

-10	8.1	362	✓
E.L.	8.0	368	✓
cb	8.4	364	✓
+5	7.8	370	✓
1/4	6.6	384	✓
E	6.0	388	✓
1/4	5.7	391	✓
cb	6.5	383	✓
cb	6.0	388	✓
W.L.	4.2	404	✓

2+75

448

W.L.	4.0	408	✓
cb	5.2	396	✓
+2	6.0	388	✓
1/4	5.7	391	✓
E	5.9	389	✓
1/4	6.1	387	✓
cb	6.1	382	✓
E.L. In Garden	6.5	383	✓
+10 " "	6.6	382	✓

2+00 = N.L. of Martin Ave on the West. 80 wide: 19' Cbs:

E.L. In Garden	5.1	392	✓
cb	5.0	398	✓
1/4	4.9	399	✓
+2	5.3	395	✓
E	5.1	397	✓
1/4	4.8	400	✓
+8	5.2	396	✓
cb	4.2	406	✓
W.L.	3.9	409	✓

N. Cb of Martin on the W

W.L.	3.2	416	✓
cb	3.7	411	✓
+2	4.5	403	✓
1/4	4.3	405	✓
E	4.6	402	✓

	+	π 44.82 ✓	-	
			<u>448</u>	
+7			398 ✓	
1/4			401 ✓	
Cb			403 ✓	
E.L.	In driveway		400 ✓	
	N 1/4 Martin on the West.			
E.L.	On lawn		412 ✓	
Cb			408 ✓	
1/4			408 ✓	
+1			408 ✓	
+4			404 ✓	
±			405 ✓	
1/4			408 ✓	
+8			405 ✓	
+9			414 ✓	
Cb			414 ✓	
W.L.			413 ✓	
	± Martin			
W.L.			419 ✓	
Cb			415 ✓	
+1			414 ✓	
+2			402 ✓	
1/4			409 ✓	
±			408 ✓	
+7			408 ✓	
+9			412 ✓	
1/4			413 ✓	

	+	π 44.82 ✓	-	
			<u>448</u>	
Cb			3.5	413 ✓
E.L.	On lawn.		3.4	414 ✓
	S 1/4 of Martin Arc.			
E.L.	In Orchard.		3.0	418 ✓
Cb			3.4	416 ✓
1/4			3.3	415 ✓
+1			3.3	415 ✓
±			3.8	410 ✓
1/4			3.9	409 ✓
+8			4.0	408 ✓
Cb			3.0	412 ✓
W.L.			3.7	416 ✓
	S Curb of Martin Arc.			
W.L.			3.7	411 ✓
Cb			3.6	413 ✓
+1			3.7	411 ✓
+2			4.3	405 ✓
1/4			4.0	408 ✓
±			3.9	409 ✓
+6			4.1	407 ✓
+9			3.4	414 ✓
1/4			3.4	414 ✓
Cb			3.0	418 ✓
E.L.	In Orchard.		3.1	417 ✓

+ π
44.82 ✓

0+00 = S.C. of Martin Ave on the West.

E.C. in Orchard	44.8 2.9	49 ✓
cb	3.3	45 ✓
1/2	3.8	40 ✓
+1	3.9	40 ✓
+2	4.5	40 ✓
±	4.2	40 ✓
1/2	4.2	40 ✓
+8	2.2	40 ✓
cb	3.9	40 ✓
W.C.	4.1	40 ✓
	0+25	
W.C.	5.3	39 ✓
cb	5.3	39 ✓
+1	5.3	39 ✓
+3	5.7	39 ✓
1/4	5.0	39 ✓
±	4.7	40 ✓
+9	4.8	40 ✓
1/4	4.4	40 ✓
cb	3.8	40 ✓
E.C. On lawn,	3.4	41 ✓
	0+50	
E.C. On lawn,	4.4	40 ✓
cb	4.7	40 ✓
1/4	5.4	39 ✓

+ π
44.82

32nd St 35

~~44.8~~

±	5.5	39 ✓
1/4	5.7	39 ✓
+7	6.2	38 ✓
cb	6.0	38 ✓
W.C.	5.9	38 ✓
#	0.29	40.70
	4.36	40.46 = South 9' Gatepost on the East side of 32nd St.
0+69 = ± of single Garage: On West line; has concrete floor		
0+69 On concrete floor:	46.7 2.60	38 ✓
	0+75	
W.C.	2.2	38 ✓
cb	2.1	38 ✓
+2	2.1	38 ✓
±	2.0	38 ✓
1/4	2.0	38 ✓
±	1.8	38 ✓
+8	2.1	38 ✓
1/4	1.9	38 ✓
+2	1.5	39 ✓
cb	1.0	39 ✓
E.C. In Soudan Grass	0.8	39 ✓
	1+00	
E.C. In Soudan Grass	1.7	39 ✓
cb	2.0	38 ✓
+7	2.3	38 ✓
1/4	3.0	37 ✓
±	2.0	38 ✓

+ π 40.70 ✓

40.7

1/4	2.9	378	✓
+6	3.6	371	✓
+8	3.0	372	✓
cb	2.8	379	✓
N.L.	2.8	379	✓

1+25

N.L.	4.0	362	✓
cb	4.1	366	✓
+2	4.3	364	✓
+d	4.8	359	✓
1/2	4.2	365	✓
t	3.8	369	✓
1/4	4.6	361	✓
+3	3.7	370	✓
cb	3.2	375	✓
E.L. In Sudan Grass	2.9	378	✓

1+40 On the North = N.L. of Greeley Ave on East ^{14° Cbs} 80° W. side

E.L. In Sudan Grass.	3.6	371	✓
cb	3.8	369	✓
+9	4.8	359	✓
1/4	5.0	357	✓
+1	5.3	354	✓
t	4.7	360	✓
1/4	4.9	358	✓
cb	5.2	355	✓
N.L.	5.0	357	✓

+ π 40.70

40.7

32nd St. 36

1+54 = N. Cb of Greeley on the East.

N.L.	5.7	356	✓
cb	5.7	356	✓
+4	6.5	344	✓
1/4	5.8	349	✓
t	5.4	353	✓
1/4	6.2	345	✓
+2	5.6	351	✓
cb	4.7	360	✓
E.L. In Sudan Grass	2.4	365	✓
#1	4.6	360	✓

30 06 RR. Spz Car
Fence Post

Note: this ends Demaris's field work: Office for me:

8/4/25 CROSS SECTION OF 20' wide
 Moore ALLEY BIK. 463 C.C. SEAMAN SUB.

Penn. Swispike Eagle 779 262.69 254.90

W.L. ELEV. = 0+00

SL ON ALLEY RETURN	7.44	255.25 ✓
C	7.70	255.0 ✓
NL ✓ / ✓	7.27	255.42 ✓
5' W		
NL	5.7	257.0 ✓
+5	6.5	256.2 ✓
C	7.4	255.3 ✓
SL	7.5	255.2 ✓
20' W		
SL	5.8	256.9 ✓
C	6.0	256.7 ✓
+5	5.0	257.7 ✓
NL	4.9	257.8 ✓
35' W		
NL	4.8	257.9 ✓
+8	4.9	257.8 ✓
C	5.2	57.5 ✓
SL	5.1	57.6 ✓
66' W		
- 9.8 Garage Conc. Apron	4.36	258.31 ✓
SL	4.1	58.3 ✓
C	4.4	58.3 ✓
+5	3.8	58.9 ✓
NL	3.8	58.9 ✓

262.69

37

107' W

- 3.2 Garage dirt floor	3.2	59.5 ✓
NL	3.2	59.5 ✓
+4	3.0	59.7 ✓
C	3.5	59.2 ✓
SL	3.6	59.1 ✓

119' W

SL Garage dirt floor	3.0	59.7 ✓	.6 IN ALLEY
+3	3.5	59.2 ✓	
C	3.3	59.4 ✓	
+3	3.2	59.5 ✓	
+6	2.9	59.8 ✓	
NL	3.1	59.6 ✓	

150' W

NL	2.6	60.1 ✓
C	3.0	59.7 ✓
SL	3.1	59.6 ✓

175' W

SL	3.2	59.5 ✓
C	2.9	59.8 ✓
NL	2.4	60.3 ✓

209' W

NL fence 5' IN ALLEY	2.4	60.3 ✓
+5	2.4	60.3 ✓
C	2.8	59.9 ✓
+5	2.8	59.9 ✓

26269

SL		3.0	259.7 ✓
+ 3.8	Garage dirt floor	2.8	59.9 ✓
	232' w		
- 3.7	Garage ✓ ✓	2.9	59.8 ✓
SL		2.9	59.8 ✓
C		3.0	59.7 ✓
NL		2.9	59.8 ✓
T.P.	+ 5.1 264.15	30.5	259.6 ✓
	268' w		
- 4.6	Double Garage Conc. floor	4.00	60.2 ✓
NL		4.0	60.2 ✓
C		4.6	59.6 ✓
SL		4.7	59.5 ✓
	286' w		
NL - 7.3	Garage dirt	3.46	60.69 ✓
	293' w		
- 3.7	Garage Conc. floor	4.66	59.49 ✓
SL		4.7	59.5 ✓
C		4.7	59.5 ✓
+ 4		4.5	59.7 ✓
NL		4.0	60.2 ✓
	325' w		
NL	fence 5 in FILEY	4.0	60.2 ✓
+ 4		4.6	59.6 ✓
C		4.7	59.5 ✓
SL		4.8	59.4 ✓

264.15

38

	359' w		
SL		4.5	59.7 ✓
C		4.2	60.0 ✓
NL	Garage	3.62	60.53 ✓
	378' w		
NL		3.6	60.6 ✓
C		4.0	60.2 ✓
SL		4.2	60.0 ✓
+ 12.4	Double garage	4.31	59.84 ✓
	400' w		
SL		4.3	59.9 ✓
C		4.2	60.0 ✓
NL		3.8	60.4 ✓
	425' w		
NL		4.9	59.3 ✓
+ 4		4.9	59.3 ✓
+ 7		3.9	60.3 ✓
C		4.2	60.0 ✓
SL		4.6	59.6 ✓
	440' w		
SL		4.7	59.5 ✓
+ 5		5.4	58.8 ✓
C		5.3	58.9 ✓
NL		5.5	58.7 ✓
	465' w		
NL		6.6	57.6 ✓

on line
Conc. floor

Conc floor

264.15

39

C			7.3	56.9 ✓
+6			7.4	56.8 ✓
SL			6.9	57.3 ✓
	479	in		
SL			7.8	56.4 ✓
C			8.1	56.0 ✓
NL			7.5	56.7 ✓
T.P.	2.98	✓57.96	9.7	✓54.98
check B.M. ^{Sutter} Goldfinch			0.9	✓57.02 > 56.99
T.P.	0.1	✓55.51	12.57	245.39

480 W = EL Goldfinch = REYNARD WAY

NL			0.8	244.7 ✓
C			1.7	243.8 ✓
SL			2.0	243.5 ✓

490 W = ECG REYNARD WAY

SL on concrete			3.83	241.68 ✓
NL	✓	✓	2.1	243.30 ✓

N.B. Curbed across ALLEY

T.P.	0.51	✓32.86	12.16	✓33.35
T.P.	0.45	221.35	12.96	✓20.90
T.P.			9.58	✓11.77

8/2/25 CROSS SECTION OF 20' wide
Moore ALLEY BIK 456 C.C. SEAMAN

264.50

40

Swathke Penn. FAHLE	960	264.50	254.90
WL FAHLE = 0.00			
ALL on Alley Return	9.71	254.79 ✓	
C	9.2	253.3 ✓	
SL ✓ ✓ ✓	9.42	255.08 ✓	
5' w			
SL	5.7	258.8 ✓	
+8	5.7	258.8 ✓	
C	8.0	56.5 ✓	
+3	8.9	55.6 ✓	
NL	8.7	55.8 ✓	
15' w			
NL	7.7	56.8 ✓	
+3	8.2	56.3 ✓	
+7	7.9	56.6 ✓	
C	7.0	57.5 ✓	
+2	4.8	59.7 ✓	
SL	4.8	59.7 ✓	
35' w			
SL	4.5	60.0 ✓	
C	5.3	59.2 ✓	
+3	6.4	58.1 ✓	
+7	6.5	58.0 ✓	
NL	6.1	58.4 ✓	
50' w			
NL	5.8	58.7 ✓	

C	5.6	58.9 ✓	
+5	4.7	59.8 ✓	
SL	4.7	59.8 ✓	
93' w			
SL	4.9	59.6 ✓	
C	5.0	59.5 ✓	
NL	5.2	59.3 ✓	
+7 Garage Conv. floor	4.93	59.57 ✓	
107' w			
4.8' So/Sl = Garage	4.52	59.98 ✓	Conv. floor
150' w			
NL	5.0	59.5 ✓	
+5	5.0	59.5 ✓	
C	4.2	59.9 ✓	
SL	4.8	59.7 ✓	
192' w			
SL	5.30	59.2 ✓	
C on Sewer M.H.	5.5	59.0 ✓	
NL	5.2	59.3 ✓	
212' w			
NL	5.2	59.3 ✓	
C	4.9	59.6 ✓	
SL	4.3	60.2 ✓	
250' w			
SL	5.4	59.1 ✓	
C	5.4	59.1 ✓	

264.50

NL		5.1	59.4 ✓
	275' W		
NL		5.8	58.7 ✓
C		5.7	58.8 ✓
SL		5.5	59.0 ✓
	312' W		
SL		6.4	58.1 ✓
C		6.3	58.2 ✓
NL	Garage dirt floor	6.40	58.1 ✓ <i>low of NL</i>
	350' W		
NL		7.7	56.8 ✓
C		7.4	57.1 ✓
SL		7.3	57.2 ✓
	380' W		
SL		8.3	
		3.8	56.2
C		8.7	55.8 ✓
+5		8.9	55.6 ✓
NL		9.8	54.7 ✓
T.P.	0.28 255.50	9.28	255.2 ✓
	400' W		
NL		14	54.1 ✓
C	Note this hub on 2"x2" POT. plans	0.3	55.2 ✓ <i>Nothing else for time</i>
+9		0.0	55.5 ✓
SL		+0.6	56.1 ✓
	425' W		
SL		0.0	55.5 ✓

255.50

41

+2		0.5	55.0 ✓
C		0.9	54.6 ✓
NL		2.0	53.3 ✓
+10		4.1	51.4 ✓
	450' W		
-10		6.9	48.6 ✓
NL		3.5	52.0 ✓
+5		2.5	53.0 ✓
C		2.3	53.2 ✓
+6		2.4	53.1 ✓
SL		1.1	54.4 ✓
	480' W = OLD #1 of Goldfinch		
SL		3.7	51.8 ✓
C		4.2	51.3 ✓
+5		5.0	50.5 ✓
NL		7.3	48.2 ✓
+15		12.3	43.2 ✓
	485' W		
-15		12.8	42.7 ✓
NL		8.6	46.9 ✓
+5		6.5	49.0 ✓
C		5.6	49.9 ✓
SL		4.7	50.8 ✓
	500' W		
-10		13.0	42.5 ✓
SL		13.3	42.2 ✓

255.50

C		14.8	40.7 ✓
NL		14.5	41.0 ✓
+15		16.3	39.2 ✓
T.P.	037	242.87	13.00 ✓ 22.50 ✓
	515' W		
-15		10.5	32.4 ✓
NL		9.1	33.8 ✓
C		8.6	34.3 ✓
SL		8.3	34.6 ✓
+6		7.9	35.0 ✓
+10		7.1	35.8 ✓

523' W

-10		8.3	34.6 ✓
SL		10.4	32.5 ✓
C		11.0	31.9 ✓
NL		11.9	31.0 ✓
+15		14.0	28.9 ✓
T.P.	192	233.11	11.68 231.19 ✓

535' W

-10		8.1	25.0 ✓
NL		7.4	25.7 ✓
C		6.9	26.2 ✓
SL		5.7	27.4 ✓
T.P.	078	220.88	13.01 220.10 ✓

220.88

42

528' W = EL REYNARD WAY

SL		10.1	210.8 ✓
C		9.4	211.5 ✓
NL		9.1	211.8 ✓
Approx 550' W = EL REYNARD WAY & Measurement			
NL ON CONCRETE		8.7 ✓	212.1 ✓
SL		10.37	210.5 ✓
check to T.P. page 39		9.11	211.77 ✓ 211.77

74055' W
 EL REYNARD WAY

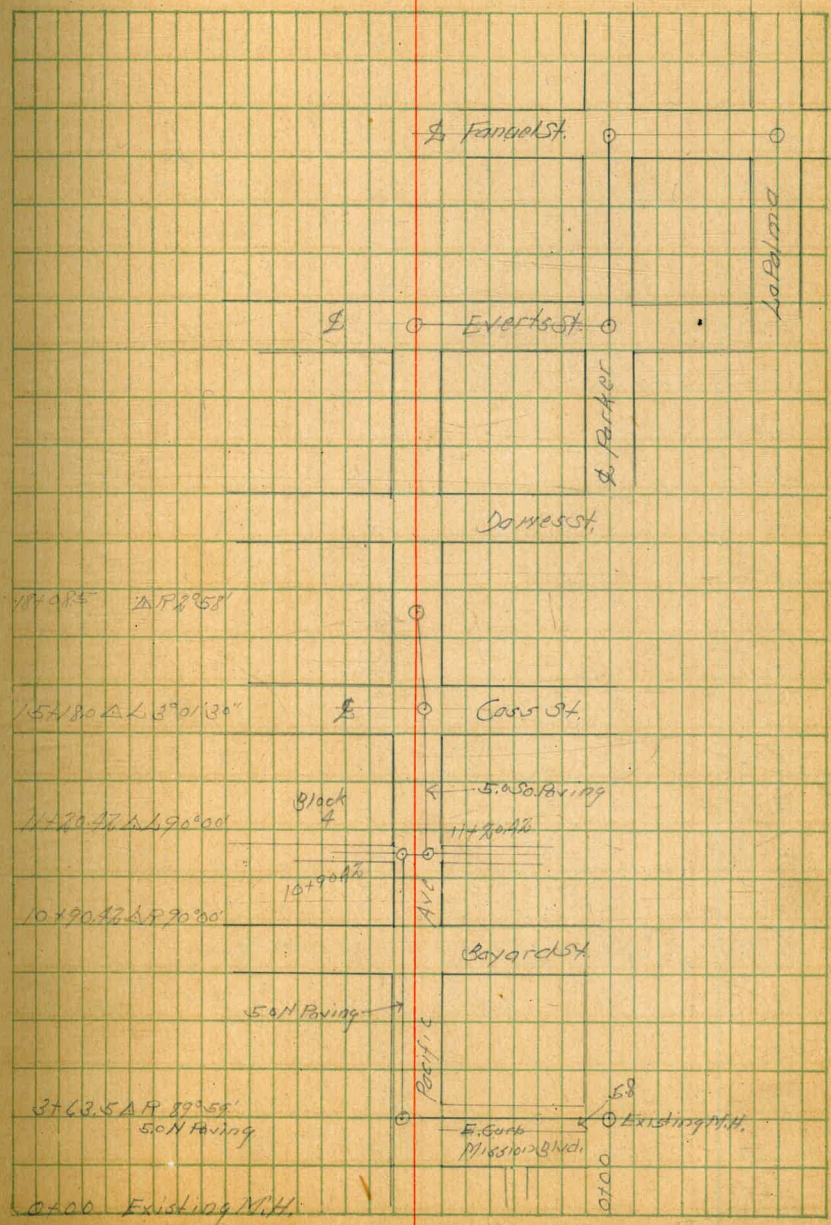
4+00 2nd RW Hub P.O.T.

SHALEY

Sewer Levels Pacific Beach

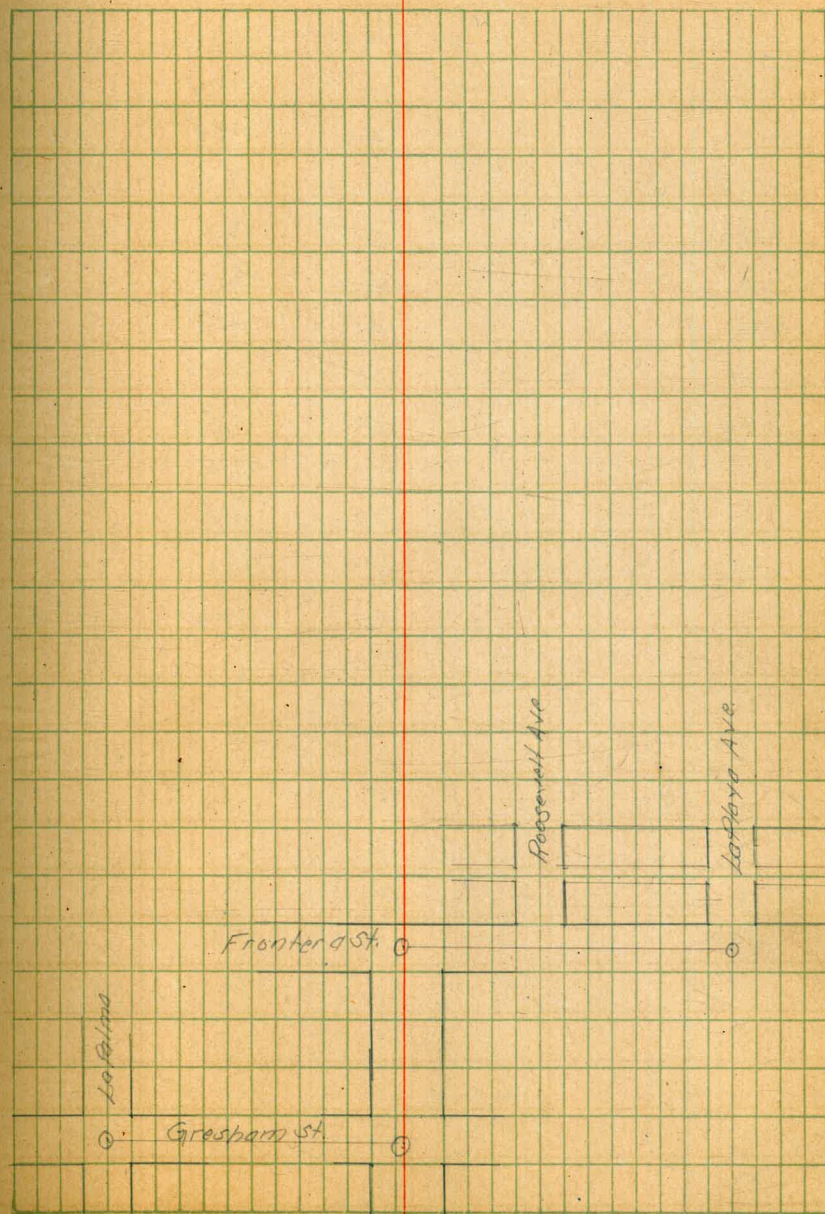
S.M. Interceptor From Existing M.H. Mission Blvd. to.

B.M.	0.38	5.00	4.62	SE. Cor Pacific Bayard Top Hydrant
I.P.	3.77	2.58	6.19	-1.19 ✓
0+00 Top M.H. Existing Sewer			4.28	-1.70
Floor Line			7.21	-4.63 ✓
+07			4.4	-1.82
+08			3.83	-1.25 Top Curb
+150			4.6	-2.02
1+00			4.6	-2.02
+150			4.8	-2.22
2+00			4.6	-2.0
+150			5.0	-2.4
3+00			5.0	-2.4
+045			4.56	-1.98 Top Curb
+05			4.97	-2.39 Top Pavng
+30			4.3	-1.72
+57.5			4.28	-1.70 N Edge
+63.5 I.P. 89°58'			4.42	-1.84 C.P. Sub
4+00			4.6	-2.0
+150			4.8	-2.2
5+00			4.3	-2.7
+150			4.2	-2.6
I.P.	6.76	5.45	3.91	-1.56 ✓
6+00			6.8	-1.4
+150			6.5	-1.1
7+00			6.0	-0.6



543

7+50		54	0.0	
8+00		50	0.4	
+50		44	1.0	
9+08.65	to Drypd	36	1.8	
+50		40	1.4	
10+00		41	1.3	
+50		41	1.3	
T.P.	4.00			
+90.42	AR 90°00	496 [✓]	447	0.96 [✓] 00 St 45
11+05.42	to Paving	391	1.05	
+70.42	149°00	423	0.73	00 St 45
+50		42	0.8	
12+00		43	0.7	
+50		44	0.6	
13+00		46	0.4	
+50		47	0.3	
14+00		46	0.4	
+50		40	1.0	
15+00		33	1.7	
+17		31	1.9	
+180	Align ^o of S. Cass St.	485	0.11	
T.P.	379	2.38 [✓]	637	-1.41 [✓] Top Flange Water Main
+24		49	-2.0	
+50		47	-2.3	
16+00		52	-2.8	
+50		54	-3.0	



Server Levels

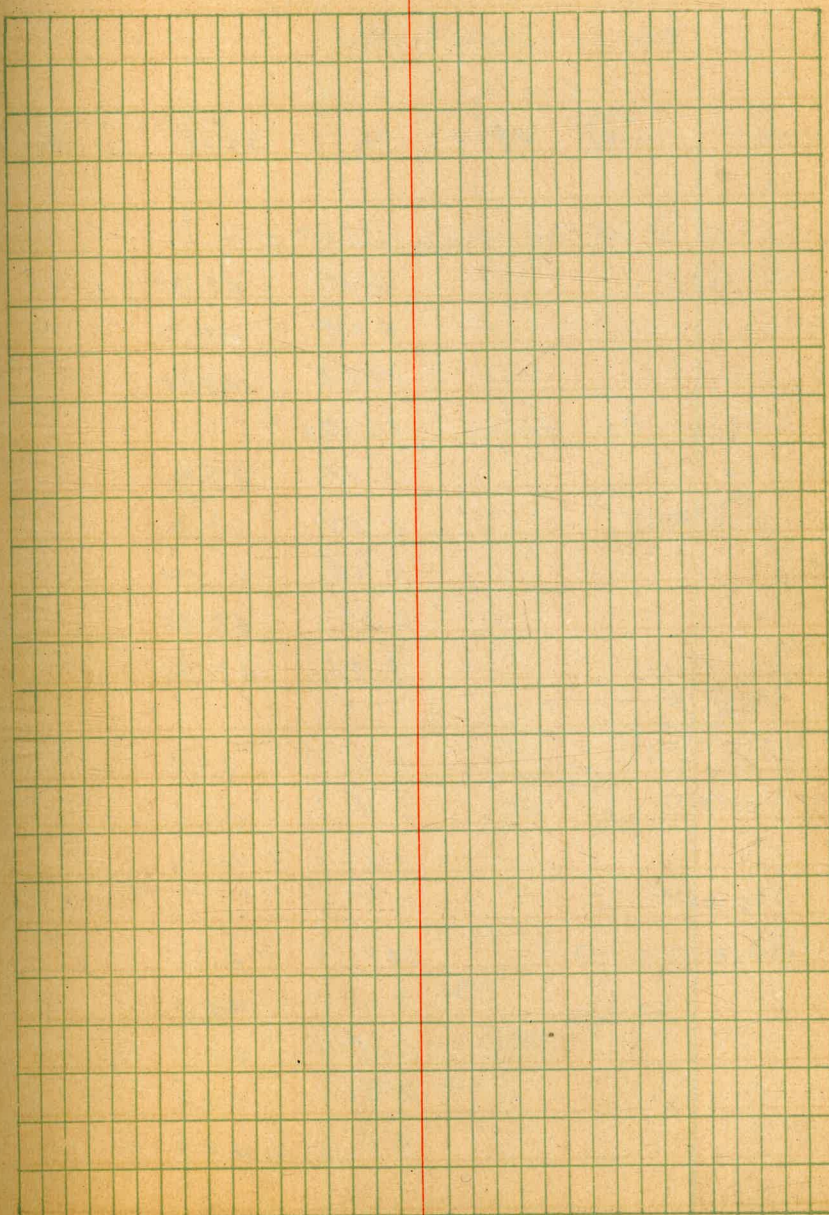
see book 1139-35

Soy Interceptor Cost

95

2.38

17+00		57	-3.3	
+50		59	-3.5	
18+00		58	-3.4	
7085	Δ P 2.58	5.63	-3.25	on Utah
+50		49	-2.5	
19+00		44	-2.0	
+50		42	-1.8	
20+00		38	-1.4	
+50		39	-1.5	
+74		37	-1.3	
+75		43	-1.9	
7985	Δ Down St. Pacific	3.5	-1.1	On N.Y. Frontals
T.P.		3.50	-1.12	Down Pacific



Xsec of alley 20' wide
Blk 38 Ocean Beach

NWBP 12.83 49.05 36.19 Sunset Cliffs Del Mar

0-12 E of line Sunset Cliffs Blvd.

S	Pav	4.64	42.38
C	"	6.29	42.73
X	"	5.78	43.24

0+00 E.L. Sunset Cliffs Blvd

d	cb	5.07	43.95
N	Pav.	5.53	43.49
C	"	4.08	42.94
S	"	6.28	42.94
S	cb	5.98	43.04

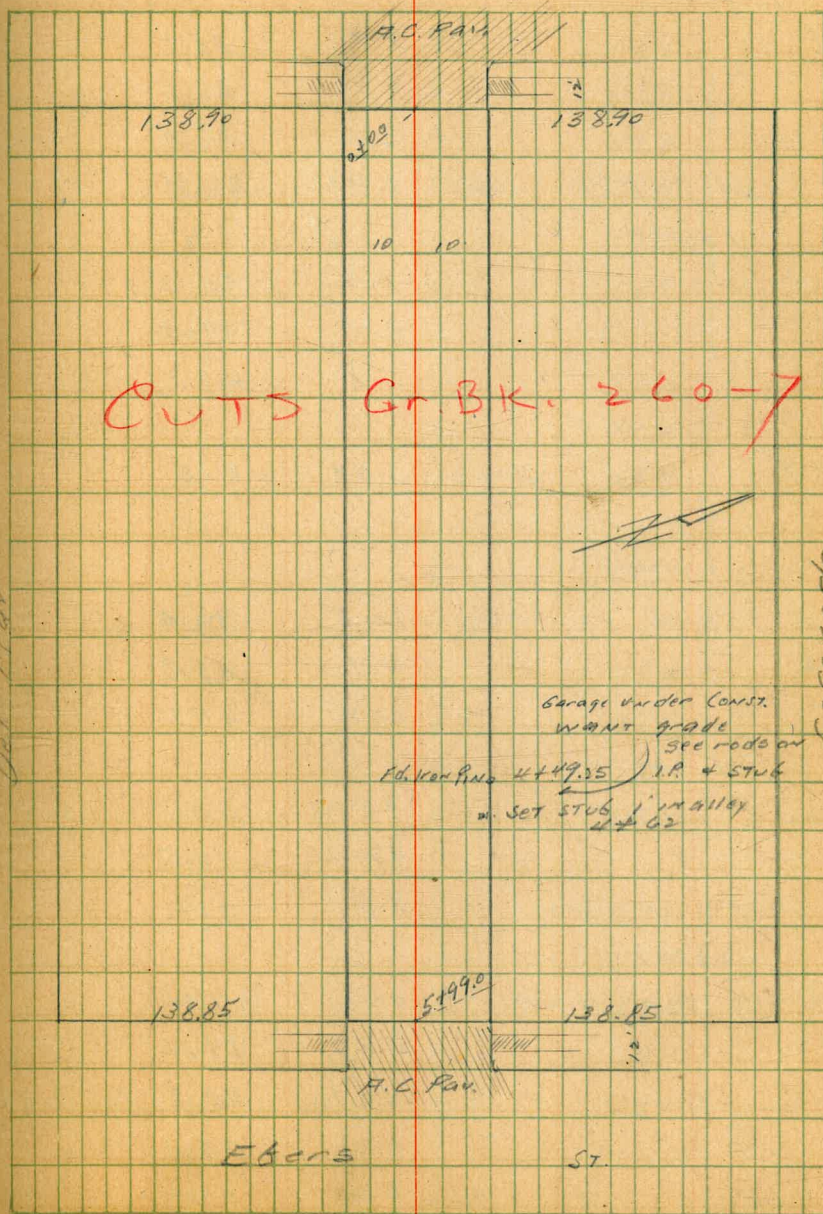
0+15

S		5.3	43.7
C		5.4	43.6
N		5.0	44.0

0+44

N	Top brq. cem. wall	3.31	45.71
N		4.2	44.8
C		4.5	44.5
S		4.8	44.2
75		5.7	43.3

Sunset Cliffs Blvd.



4902

0480

S		2.9	46.1
C		2.7	46.3
N		2.2	46.8
N	end top cem. wall	1.71	47.31

1+00

N		0.7	48.3
C		1.6	47.4
S		1.8	47.2

T.P. 11.54 60.22 0.34 48.68

1+22

N	Fence 1.2 in alley	10.8	49.4
C		11.4	48.8
S		11.5	48.7

1+50

S		9.5	50.7
C		9.7	50.5
N	fence on line	8.3	51.9

2+00

-2.5	beg. top cem wall	2.28	57.94
N		4.8	55.4
+5		6.0	54.2
C		6.2	54.0
S		6.6	53.6

60.22

47

2+20

S		5.0	55.2
C		4.7	55.5
N		3.7	56.5
+1.3	Cem apron	3.40	56.82
+2.5	end top cem wall	1.87	58.35
+3.5	Wedge Sw. gap.	3.35	56.87 Cem

2+36

-3.5	Cem walk	3.30	56.92 Edge
-1.3	" "	3.28	56.94 gap
N		3.3	56.9
C		3.5	56.7
S		4.2	56.0

2+44

S		3.3	56.9
C		2.9	57.3
N		2.2	58.0
+1.0	Cem walk	1.96	58.26 <u>2.5 wide</u>

2+60

N		1.1	59.1
+3		1.7	58.5
C		1.8	58.4
S		2.1	58.1
+8	Sw. gap fl. d.	2.15	58.07

T.P. 11.54 71.31 0.45 59.77

71.31

3+00

S	10.2	61.1	
C	RM. MH.	10.13	61.18
+7	10.2	61.1	
+8	8.7	62.6	
N	8.7	62.6	

3+30

N	7.0	64.3
+4	8.2	63.1
C	8.4	62.9
S	8.3	63.0

3+59

S	6.6	64.7		
O	6.0	65.3		
N	5.3	66.0		
+4.5	E 19' gar. dirt fl.	4.7	66.6	Level

3+71

3' step. walky. 1.5 on N	4.9	66.62
--------------------------	-----	-------

3+90

N	2.7	68.6		
C	3.9	67.4		
S	3.8	67.5		
+6	^{12'} Sin. gar. cert	3.91	67.40	H. Level

4+24

S	0.9	70.4
C	0.9	70.4

71.31

48

N		0.0	71.31	
+15	11' Sin. gar.	dirt	0.0	71.31
+9	1301	83.83	0.49	70.84

4+49.25

N	TOP IRON PIN	9.23	74.20	gar under CONST.
C		10.3	73.5	
S		10.9	72.9	

4+62

S		8.9	74.9
C		8.9	74.9
+8		8.5	75.3
+9	ON STUB	7.44	76.39
N		7.3	76.5

5+00

N-5	Wedge dirt gar	1.4	82.4
N		1.7	82.1
+5		3.1	80.7
C		3.3	80.5
+7		3.4	80.4
S		2.7	81.1

5+18

S		1.2	82.6
C		1.2	82.6
N		1.2	82.6

83.83

N +5 E edge gar. dirt N 82.7

T.P. 12.88 96.50 0.21 83.62

5+35

N 11.2 85.3

+5 11.3 85.2

C 11.8 84.7

S 11.8 84.7

5+58

-8 Wedge Six gar 8.25 88.25 CEMT

S " " apron 7.97 88.53 "

C 8.5 88.0

+5 8.3 88.2

N 6.9 89.6

5+66

N 6.1 90.4

+5 7.1 89.4

C 7.2 89.3

S CEMT apron 7.60 88.90

+8 E edge gar 8.22 88.28 CEMT

5+90

S 3.7 92.8

C 3.8 92.7

+7 2.7 93.8

N 1.4 95.1

96.50

49

5+99 W L Ebers St.

N cb 1.56 94.94

N Pav 2.22 94.28

C " 2.95 93.55

S " 3.06 93.44

S cb 2.97 93.53

6+11 W cb LHO Ebers St

S Pav. 3.70 92.80

C " 3.00 93.50

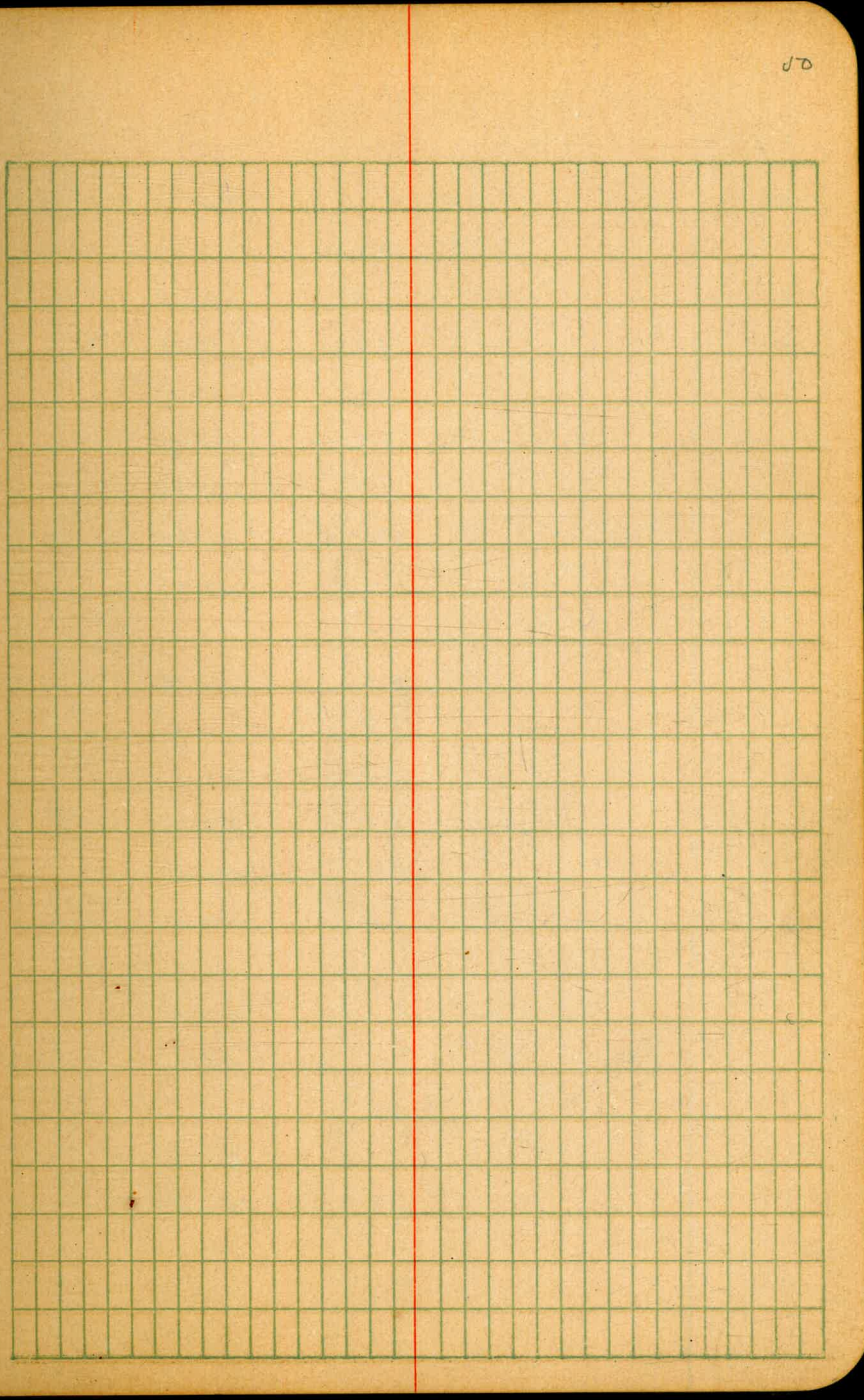
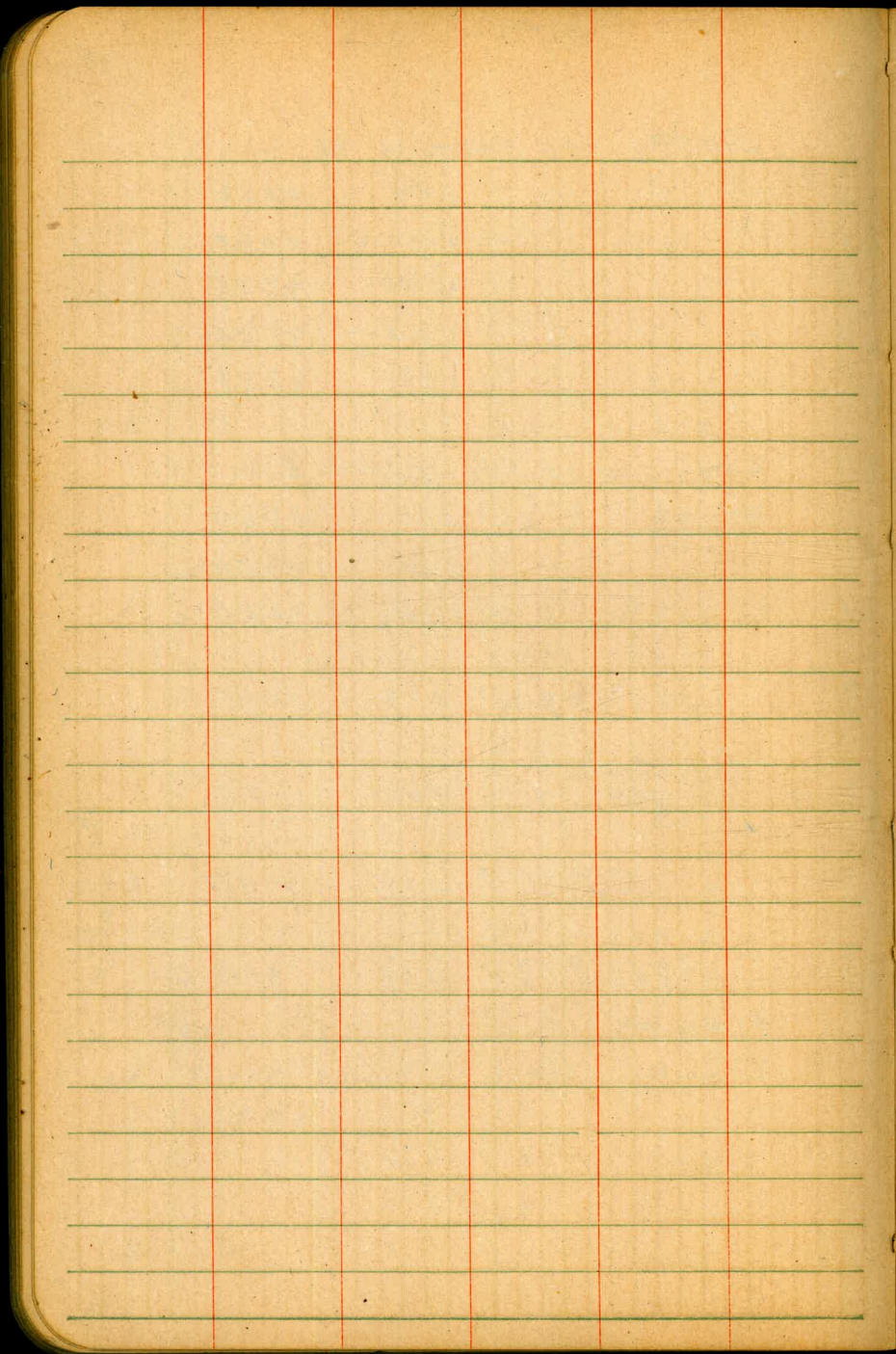
N " 2.27 94.23

T.P. 12.71 109.12 0.09 96.44

Top cb. ^{St. Coronado} W. cb. Ebers 4.05 105.07SE Top Hyd ^{Santa Cruz} Ebers 11.15 97.97 99.60SW Man ^{Santa Cruz} Ebers 13.69 95.43 ✓

95.42 ✓

Hyd. Lower

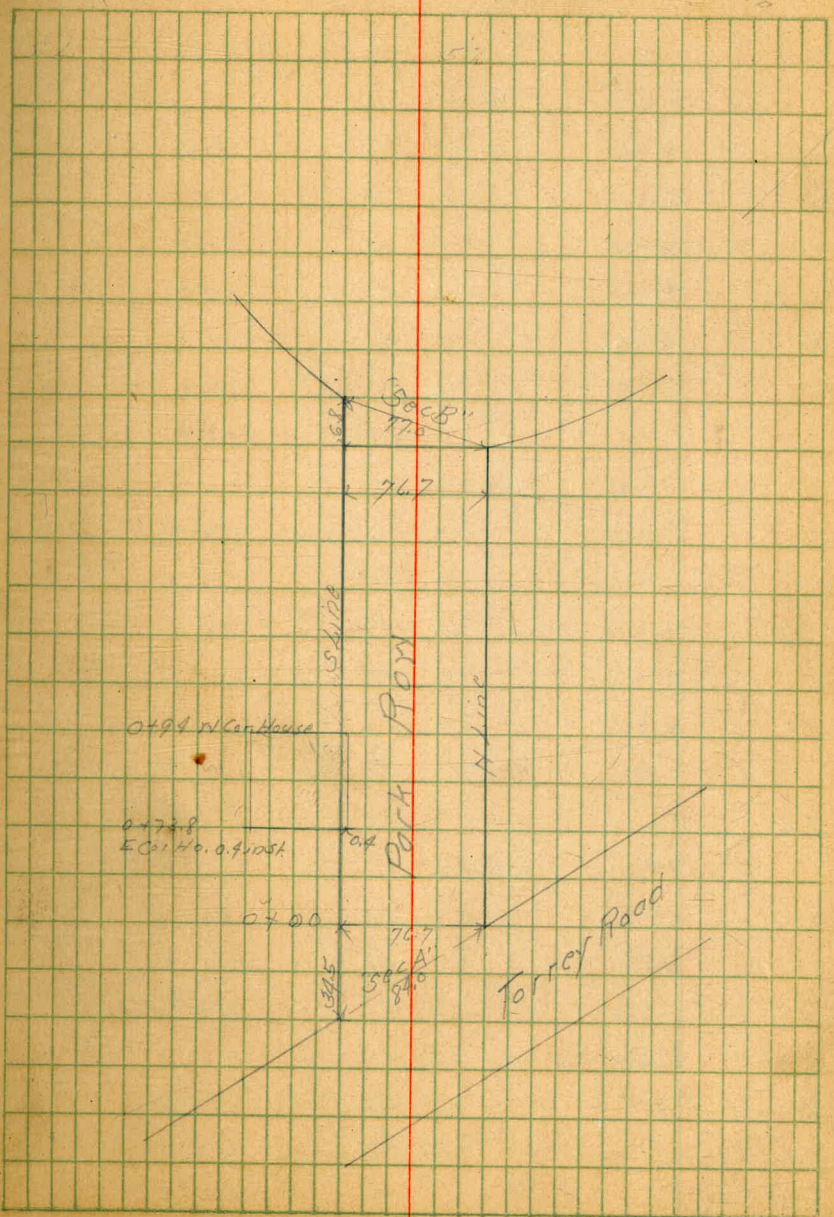


Cross Section of Park Row

14' Cbs 12.175 Qts 76.7 wide

BM	2.47	157.42	154.95	B.P.N.E. Cor Park Row
Sec A - H-Line Torrey Road				
NL		3.2	154.2	
NC		3.4	154.0	
Gutter		3.90	153.5	
E		4.16	153.176	
Gutter		4.89	152.53	
SC		4.55	152.87	
S.L.		4.3	153.1	
0+00				
S.L.		5.0	152.4	
GB		4.7	152.7	
1/4		4.4	153.0	
E		4.2	153.2	
1/4		3.9	153.5	
CB		3.4	154.0	
NL		3.1	154.3	
5' X				
NL		2.9	154.5	
GB		3.3	154.1	
1/4		4.1	153.3	
E		4.0	153.4	
1/4		4.4	153.0	
CB		4.9	152.5	
+4		4.6	152.8	

8-19-75
A.S. 500
788155
6 North



Park Pond Cont

	157.42		
SL	52	152.2	
	27.7		
SL	56	151.8	
CB	54	152.0	
1/4	49	152.5	
C	48	152.6	
1/4	41	153.3	
CB	38	153.6	
NL	36	153.8	
	54.7		
NL	42	153.2	
CB	45	152.9	
1/4	47	152.7	
C	49	152.5	
1/4	53	152.1	
CB	55	151.9	
SL	56	151.8	
	100.7		
SL	62	151.2	
CB	58	151.6	
1/4	56	151.8	
C	50	152.4	
1/4	48	152.6	
CB	45	152.9	
NL	41	153.3	

52

	157.42		
	140.7		
NL	37	153.7	
CB	41	153.3	
1/4	47	152.7	
C	53	152.1	
1/4	55	151.9	
CB	57	151.7	
SL	57	151.7	
	175.7		
SL	49	152.7	
CB	48	152.6	
1/4	47	152.7	
C	49	152.6	
1/4	45	152.9	
CB	42	153.2	
NL	34	154.0	
	200.7		
NL	31	154.3	
CB	34	154.0	
1/4	38	153.6	
C	37	153.7	
1/4	36	153.8	
CB	37	153.7	
SL	32	154.2	

Park Row Cott.

157.92

218.24

S.L.	3.2	154.2
CB	2.7	154.7
1/4	3.1	154.3
C	3.2	154.2
1/4	3.3	154.1
Gutter	3.2	154.1
Top CB	2.95	154.47
N.L.	2.7	154.7
Sec B see page 51		
N.L.	2.7	154.7
CB Top	2.95	154.47
Gutter	3.2	154.1
1/4	3.2	154.2
C	3.3	154.1
1/4	3.1	154.3
CB	2.6	154.8
S.L.	2.5	154.9

X Section of Grape St Between 5th & 6th St

140 Cbs 130 GAs 80' wide

189.13

8-19-25
Bliss
Bliss
Northrop

BM	5.62	184.13	178.51	NW Corner of Grape St
0+00 = E Line 5th St				
N.L.		5.0	179.13	
Top Curb		5.95	178.18	
Gutter		6.5	177.63	
+04		5.4	179.73	
+05		6.3	177.83	
1/4		6.4	177.13	
C		6.9	177.23	
1/4		7.6	176.53	
+12		8.5	175.63	
Top Curb		8.10	176.03	
S.L.		7.4	176.73	
75' E				
Side Door Garage Concrete Floor		8.59	175.54	Slide
+01		7.4	176.63	
CB Top		7.85	176.28	
1/4		7.7	176.73	
C		6.9	177.23	
1/4		6.5	177.63	
+05		6.8	177.93	
+10		5.2	178.93	
CB		5.7	178.33	
N.L.		5.7	178.43	

50' E

N.L.	5.1	179.03
CB	5.2	178.93
+03	5.1	179.03
+10	6.1	178.03
1/4	6.3	177.83
C	6.6	177.53
1/4	7.2	176.93
CB	7.3	176.83
S.L.	7.1	177.03
75' E		
S.L.	6.8	177.33
CB Top	7.17	176.96
1/4	6.6	177.53
C	6.5	177.63
1/4	6.0	178.13
+03	5.7	178.43
+10	4.5	179.63
CB	4.9	179.23
+09	4.9	179.23
N.L.	3.8	180.33
100' E		
N.L.	3.1	181.03
+05	4.6	179.53
CB	4.5	179.63
+02	4.7	179.43

Grape St Cont

184.13

+04	3.9	180.23
+07	5.0	179.10
1/4	5.6	178.53
C	6.0	177.53
1/4	6.1	178.03
C.B.	6.4	177.73
S.L.	6.8	177.33

175E

S.L. Door Garage Conc Floor	7.98	176.15	S.L. line
+02	6.7	177.33	
+08	6.7	177.43	
C.B.	6.2	177.93	
+03	5.8	178.33	
1/4	5.9	178.73	
C	5.1	179.03	
1/4	4.8	179.33	
+07	4.3	179.83	
+11	3.3	180.83	
C.B.	4.0	180.13	
+09	4.1	180.03	
1/4	2.8	181.93	

155E

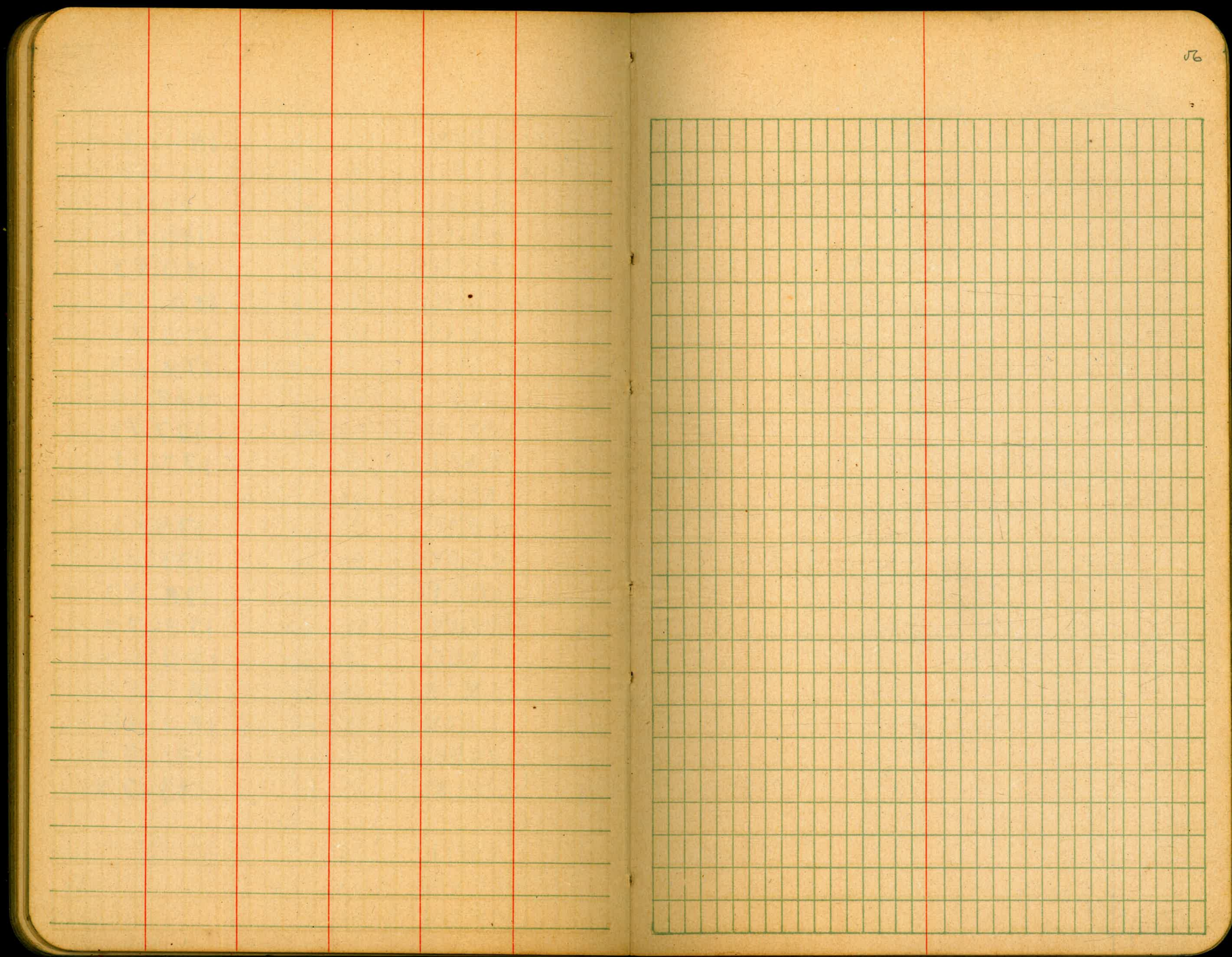
N.L.	2.8	181.33
+02	3.6	180.53
+07	3.7	180.93

55

+12	3.0	181.13
C.B.	2.7	181.43
+06	2.1	182.03
+10	3.3	180.83
1/4	3.7	180.43
C	4.0	180.13
1/4	4.4	179.73
+10	4.5	179.63
C.B.	6.0	178.13
+04	6.4	177.73
S.L.	7.0	177.13

166E = 1/4 Line Glass

S.L.	5.1	179.03
Top C.B.	5.07	179.06
Gutter	5.6	178.53
1/4	4.4	179.73
C	3.5	180.63
1/4	3.0	181.13
Gutter	2.9	181.23
Top C.B.	2.6	181.97
N.L.	0.9	183.23



56

Sta 4+978

20' Pipe 51'

Hub behind curb

880

4+29

4+09

3+89

3+69

3+49

3+00

2+50

2+00

1+50

1+00

0+50

Sunset Grove!
See next page!

Note this pipe has been hit with a scraper
497.8'

Brighton

Sta 0+00-2+08

10' Pipe 51'

Hub behind curb

817.2

Guizot St

	+	H	-	
#	7.05	51.59		44.54 N.W. Cor. Froude & Voltaire.
#	8.09	52.47	3.21	48.38
#	11.29	67.76	0.00	56.47 No. 1
#	12.92	80.24	0.44	67.32
#	12.86	91.99	1.11	79.13 Cb SW Cor. Muir & Guizot.
#	12.97	104.93	0.13	71.86 Cb Long Branch & Guizot.
#	12.43	117.16	0.10	104.73 Cb Brighton
#	12.88	120.04	0.00	117.16 Sta.
#	12.77	142.57	0.24	129.80 On Cb
#	12.33	154.74	0.16	142.21 On Cb
#	9.10	160.33	3.51	151.23
#			3.76	156.57 = 156.72 B.P. S.W. Cor. Cape May & Santa Barbara.
#	3.76	160.48		156.72 S.W. Cor. Cape May & Santa Barbara
#	4.07	155.45	9.10	151.38
#	1.02	147.87	8.65	146.80
#	0.36	136.40	11.79	136.04
#			12.43	123.97 Pipe Cor. of Tract.
#			6.40	120.00 = 127.80 See above.

	Grades of P.L.	
1+408 = 00	136.40	124.12
0+00	17.47	
	8.93	127.47
	7.54	
	-0.61	130.82
1+00		
	147.92	134.17
	37.52	
	16.30	
	8.27	
	+ 2.03	137.52
2+00		
		140.87
3+00		144.22
3+10 Sub	147.82	144.88
	44.88	
	2.94	147.50
	0.10	
	+ 2.79	148.72
3+69		
		149.65
3+89		
		150.28
4+09		
		150.61
4+29		
		151.25
4+578		

136.40
124.12
12.28
12.03
+ 0.25

58

+ ce - stakes on 5 offset - Brighton in front of Sunset Tract.

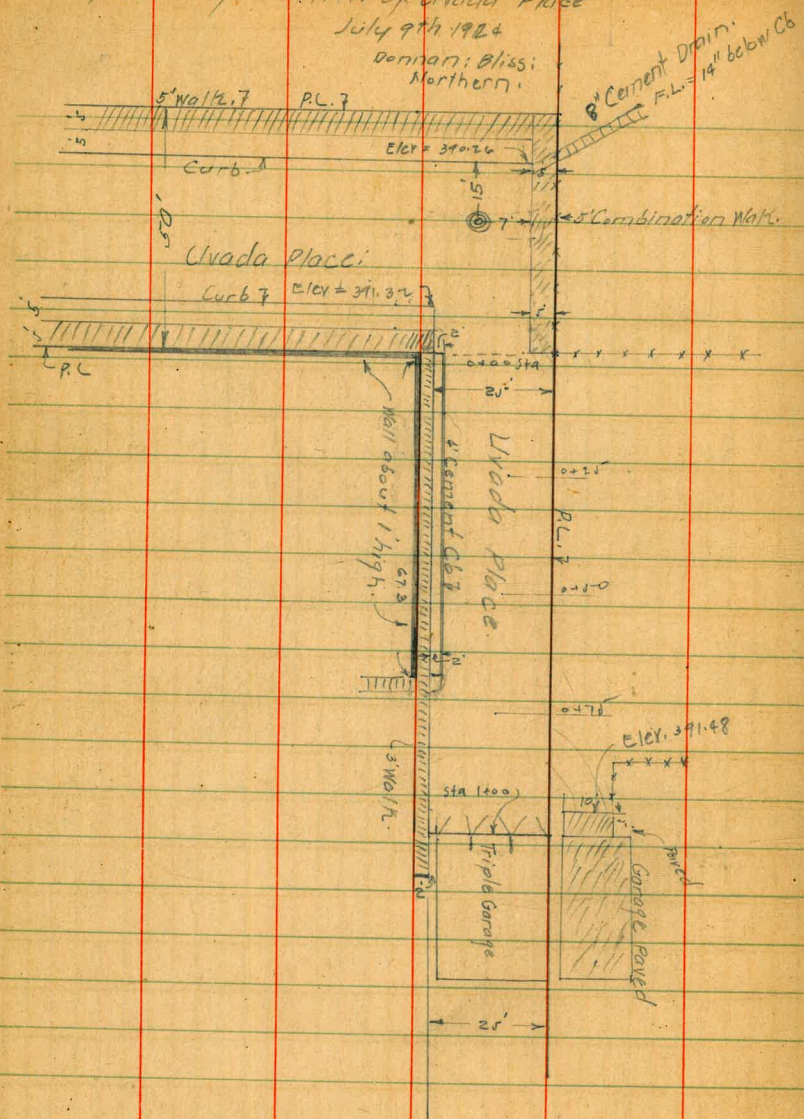
July 13th 1925

Dennan
Northern
Bliss

Section of a Portion of Uvada Place

July 9th 1924

Dennan, Bliss, Northern.



6.99	391.90		384.91 S.E. Adams & Kahn B.P.
8.53	395.13	0.80	391.65
4.17	396.00	3.30	391.83
		0+00	
E.L.		4.62 On sidewalk	391.38
E		4.7	391.3
W.L.		4.91 On sidewalk	391.59
W.L.	0+20	4.08 " "	391.92
E		4.4	391.6
E.L.		4.7	391.3
		0+50	
E.L.		4.8	391.2
E		4.4	391.6
W.L.		4.11 On sidewalk	391.89
		0+70	
W.L.		4.1	391.9
E		4.6	391.4
E.L.		4.8	391.2
		1400	
E.L.		4.7	391.3
E	all average of Garage driveways		4.8 391.2
W		4.2	391.8
#	349	395.32	4.17 391.83
#	341	392.03	3.70 391.62
		7.10	384.93 = Initial B.M.

KEITH'S RAILROAD CURVE TABLES.

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HOW TO USE KEITH'S TABLES.

EXAMPLE.

Wanted a Curve with an Ext. of about 12 ft. Angle
of Intersection or I. P. = $23^{\circ} 20'$ to the R. at Station
542+72.

Ext. in Tab. IV opposite $23^{\circ} 20' = 120.87$
 $120.87 \div 12 = 10.07$. Say a 10° Curve.

Tan. in Tab. IV opp. $23^{\circ} 20' = 1183.1$
 $1183.1 \div 10 = 118.31$.

Tab. V correction for A. $23^{\circ} 20'$ for a 10° Cur. = 0.16
 $118.31 + 0.16 = 118.47 =$ corrected Tangent.

(If corrected Ext. is required find in same way)
Ang. $23^{\circ} 20' = 23.33^{\circ} \div 10 = 2.3333 =$ L. C.

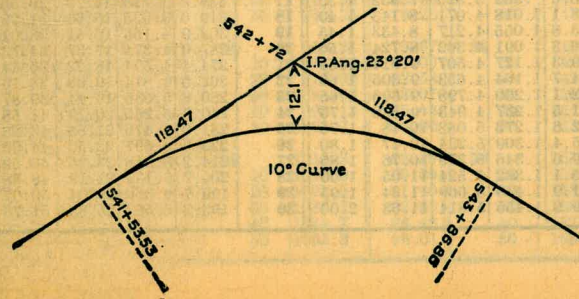
$2^{\circ} 19\frac{1}{2}' =$ def. for sta.	542	I. P. = sta.	542+72
$4^{\circ} 49\frac{1}{2}' =$ " " "	+50	Tan. =	1.18.47
$7^{\circ} 19\frac{1}{2}' =$ " " "	543	B. C. = sta.	541+53.53
$9^{\circ} 49\frac{1}{2}' =$ " " "	+50	L. C. =	2.33.33
$11^{\circ} 40' =$ " " "	543+	E. C. = Sta.	543+86.86
	86.86		

$100 - 53.53 = 46.47 \times 3' (\text{def. for 1 ft. of } 10^{\circ} \text{ Cur.}) = 139.41' =$
 $2^{\circ} 19\frac{1}{2}'' =$ def. for sta. 542.

Def. for 50 ft. = $2^{\circ} 30'$ for a 10° Curve.

Def. for 36.86 ft. = $1^{\circ} 50\frac{1}{2}'$ for a 10° Curve.

(These tables are published in Field Books of
KEUFFEL & ESSER CO., New York, N. Y.)





256 C. SEAMAN

130.04
 5.28
 124.76

12.58
 4.11
 166.9

12.58
 6.6
 17.18

300
 80
 380
 575
 1495

376.00
 4.68
 391.32
 11.92
 5.60
 17.52
 6.18
 30
 5.82
 11.92
 8.22
 20.14
 284.91
 6.97
 291.90
 30.04
 25.35
 4.69
 5.90
 1.31

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1 1/2 TO 1.

FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.