

1047

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 IS FEET WIDE. SIDE SLOPES 1 TO 1.

FOR SINGLE TRACK EXCAVATION.

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	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.

MICROFILMED

DEC 1 1954

MICROFILMED
DEC 1 1954

4.2
7 10
1
11
10
3 2
7 0
1 10
10
13'8"

10
10
2
10
32
2 6
7
3
12 6

Book 1201
Page 27
Hawthorn

Book 1047

	12.87				
7+50	4.87	8.00	1.99 ✓	6.01	
8+0	5.19	7.65	2.02 ✓ 2.05 ✓	5.63	
450	5.60	7.27	2.08 ✓ 2.12 ✓ 2.15 ✓	5.15	
9	5.80	7.07	2.18 ✓ 2.21 ✓	4.89	
450	5.96	6.91	2.24 ✓ 2.27 ✓	4.67	
299 ¹⁷ = M.H. & Alley bet Miro & Longbranch	6.38	6.49	2.31 ✓ 2.34 ✓	4.18	
10+50	6.52	6.35	2.37 ✓ 2.40 ✓	3.98	
11	6.77	6.10	2.43 ✓ 2.46 ✓	3.67	
450	6.91	5.96	2.50 ✓ 2.53 ✓	3.46	
12	4.23	10.11	2.56 ✓ 2.59 ✓	3.32	
450	4.44	5.67	2.62 ✓ 2.65 ✓	3.05	
+91 ⁷ = No end of iron pipe	4.50	5.61	2.67 ✓	2.94	
13	4.51	5.60	2.68 ✓ 2.71 ✓	2.92	
450	4.62	5.49	2.74 ✓ 2.77 ✓	2.75	
475	4.65	5.46	2.81 ✓ 2.84 ✓	2.65	
14	4.72	5.39	2.87 ✓ 2.90 ✓	2.52	
450	4.77	5.39	2.87 ✓ 2.90 ✓	2.52	
15	4.47	5.64	2.93 ✓ 2.96 ✓	2.71	
+31 ⁷ = 300 end iron pipe	4.46	5.65	2.97 ✓	2.65	
450	4.35	5.76	3.00 ✓	2.76 ✓	
+71 ⁷ = M.H.	4.34	5.77	3.03 ✓ 3.03	2.74 ✓	
	6.07	11.84			

14.04	14.04	14.04			
2.02	2.05	2.08			
12.02	11.99	11.96			
7.02	6.99	6.96			
4.53	12.40	12.40	12.40	12.40	12.40
9.52	2.12	2.15	2.18	2.21	2.24
2.88	10.28	10.25	10.22	10.19	10.16
12.40M	5.22	5.25	5.22	5.19	5.16
2.05					
10.32					
5.32					
9.52	12.38	12.38	12.38	12.38	12.38
2.86	2.32	2.30	2.34	2.37	2.40
12.38M	10.11	10.08	10.04	10.01	9.98
2.24	5.11	5.08	5.04	5.01	4.98
10.14					
5.14	12.38				
2.53					
9.55					
4.35					
4.53	10.09	10.09	10.09	10.09	10.09
5.56	2.56	2.59	2.62	2.65	2.68
10.09M	7.53	7.50	7.47	7.44	7.41
2.53	2.53	2.50	2.47	2.44	2.41
7.56					
2.56					
10.09	4.53	3.28	6.06	10.59	10.59
2.50	5.50	4.53	6.06	3.00	3.03
7.59	10.03M	3.28	10.59M	2.59	2.56
5.25	1.25				
4.78					
3.28					
1.50					
10.59	10.59	10.59	10.59	10.59	10.59
2.74	2.77	2.81	2.84	2.87	2.90
7.35	7.32	7.72	7.75	7.72	7.69
2.85	2.82	2.78	2.75	2.72	2.69
	10.59	10.59			
	2.96	3.00			
	4.63	7.59			
	2.63				
4.53	10.64	10.64	10.64	10.64	10.64
6.11	2.68	2.71	2.74	2.77	2.81
10.64M	7.96	7.93	7.90	7.87	7.83
	2.96	2.93	2.90	2.87	2.83
	10.64	10.64	10.64	10.64	10.64
	2.84	2.87	2.90	2.93	2.96
	7.80	7.77	7.74	7.71	7.68
	2.80	2.77	2.74	2.71	2.68

1640		11.84	5.93	5.91	3.06 ✓	2.85
16450			5.70	6.14	3.09 ✓	
17			5.43	6.41	3.12 ✓	
750			5.08	6.76	3.15 ✓	
18			5.16	6.68	3.19 ✓	
450			5.15	6.69	3.22 ✓	
+15					3.25 ✓	
19			5.00	6.84	3.28 ✓	
450			4.82	7.02	3.31 ✓	
150			4.79		3.34 ✓	
+61	M. H. Alley bet Cape May & Saratoga		7.05		3.37 ✓	
+15					3.39 ✓	
20			4.68	7.16	3.41 ✓	
450			4.57	7.27	3.44 ✓	
21			4.40	7.44	3.47 ✓	
750			4.22	7.62	3.50 ✓	
T.P.	5.37	13.37	3.84	8.00	3.53 ✓	
22			5.60	7.77	3.57 ✓	
750			5.39	7.98	3.60 ✓	
23			5.17	8.20	3.63 ✓	
+41	Break beg of 12 th & Alley bet Saratoga & Santa Monica		5.03	8.34	3.66 ✓	
450	5.80	14.50		8.75	3.72 ✓	
24			5.99	8.56	3.76 ✓	
750			5.73	8.72	3.77 ✓	

10.59	10.59	10.59	10.59	10.59	
3.06	3.09	3.12	3.15	3.19	
7.53	7.50	7.47	7.44	7.40	
2.50	2.50	2.47	2.44	2.40	
10.59	10.59	10.59	10.59	10.59	
3.22	3.25	3.28	3.31	3.31	
7.37	7.34	7.31	7.27	7.27	
2.37	2.34	2.31	2.27	2.27	
8.00	12.43	12.43	12.43	12.43	
9.43	3.24	3.38	3.41	3.44	
12.43	9.09	9.05	9.02	9.53	
3.28	12.43	15.05	1.02	5.75	
9.15	3.31				
12.43	7.12	12.43	12.43	10.2	
4.19	9.12			8.00	
7.24	9.12	3.34		5.20	
	12.43	3.44		13.20	
	3.31	9.05		7.79	
	9.12	12.43		4.4	check
	✓	3.38		13.20	13.20
12.43	12.43	9.05		3.82	3.85
3.34	3.34	9.05		4.38	4.35
9.09	9.09	9.05		7.35	7.31
4.09	(4.09)			4.35	4.31
				13.20	13.20
				3.92	3.96
				9.28	9.24
				4.28	4.24
12.43	8.00	12.13	12.13	12.13	12.13
3.35	4.03	3.41	3.44	3.47	3.50
9.05	12.13	3.41	8.72	8.69	8.66
12.13	3.41	8.72	8.69	8.66	8.63
3.38	8.72	3.12	3.69	3.66	3.60
9.75	3.12				
3.25					
12.13	12.13	12.13	12.13	12.13	12.13
3.57	3.60	3.63	3.66	3.69	3.72
8.56	8.53	8.50	8.47	8.44	8.41
(3.56)	(3.53)	(3.50)	(3.47)	(3.44)	(3.41)
12.13	12.13	12.13	12.13	12.13	12.13
3.79	3.82	3.85	3.89	3.92	3.96
8.37	8.31	8.28	8.24	8.21	8.17
3.34	3.31				
12.62	13.63	13.63			
3.39	3.39	3.28	3.24	3.21	3.17

Sewer # 13204 6'

B.M. N.E. Brass 15 1/2 Bacon & Coronado
47.15
north

45.51

0+10 = M.H. & Alley bet Santa Cruz & Coronado

9.04
Coronado

38.11

Drop 32.00 going south
28.00 6.11 10.11

+75

+50 3.32 38.46 12.01 35.14

28.11

8.92

+75

1 5.94 32.52

28.33

28.45

4.07

+10 D.E.

6.45 32.01 28.50 3.51

1.64

47.15

45.51

South

0+10 = M.H. & Alley bet Santa Cruz & Coronado

9.04

38.11

Drop

28.00 ✓

10.11

32.00

6.11

+75

+50 6.81 40.34

33.14 ✓

34.27 ✓

6.07

+75

1 4.16 42.99

35.40 ✓

36.54 ✓

6.45

+10 D.E.

3.66 43.49 37.00 ✓ 6.49 ✓

45.51

1.34

46.85 M

8.27

end of job 38.58

3.21

42.39 M

46.85

37.00

9.85

4.85

42.39

28.00

14.39

46.85

35.40

11.45

6.45

42.39

28.00

14.39

46.85

34.27

12.58

7.58

42.39

28.00

14.39

46.85

33.14

13.71

8.71

42.39

28.00

14.39

38.58

1.05

39.63 M

28.00

11.63

39.63

28.11

11.52

6.52

39.63

39.63

28.22

11.41

6.41

39.63

39.63

28.33

11.30

6.30

39.63

39.63

28.50

11.13

6.13

39.63

6

Pump House Ocean Road Sewer

B.M. 3. n. brass pig Abbots Voltaire 2.47

4.65 7.12

opposite Sunset Supper Club N.E. corner walk

T.P. end of walk west side of West Pl. Loma Blvd 4.97 2.15

4.23 6.38 4.87 + 1.51 elev nail top of M.H.

Elev floor + 2.00

Elev inlet - 8.25

Elev extreme bottom - 17.00

East

" East bottom concrete - 14.87

" " ground ~~14.47~~

Elev ground at division - 2.50

" 6" discharge line

elev overflow pipe - 1.00

~~4.75~~

4.33 from $\phi 16"$ to $\phi 6"$

5.5' " $\phi 6"$ to N edge M.H.

2.15 4.83 4.83 M.H. 8.25
 2.68 8.25 13.00
~~4.83 M.H. 13.00 17.83~~
 12.90

4.83 M.H.
 12.90

8.07

4.83 4.83
 16.50 16.00
 21.33 20.83

4.83
 17.00

21.83
 20.33

1.50

17.83

3.50

21.33

2.15 4.18 4.18 4.20
 2.03 13.00 17.00 13.00

4.18 M.H. 17.18 21.18 17.20

2.15
 2.05

4.20 M.H.

2.15
 3.97
 6.12 M.H.

8.00
 2.27
 2.31

10.27
 6.12
 16.39

16.43

12.43 = 4' cut to 20+66

11.43 = 5' cut to 20+66

3.5

3 6

8

2.15 B.M.
 9.04

6.19
 13.00

19.19
 7.63

11.56

2.15
 4.52

6.67
 5.16

1.51

14'

14

28

4

32'

2' 2" 8"

6' 8"

14.17

2.33

16.50

65
 35

325
 195

2,275

2.31

Line & grades for 6" discharge pipe from pump house to M.H. near septic tank. Line to be 2' N of S curb line from sta 0+58 to sta 3+75 thence on straight line to M.H. Line & grade taken on curb to sta 3+75 - from 3+75 to M.H. stakes set 6' off

Note for sketch see Book 266 page 41

B.M.	+R	H.I.	-R	Elev	grade	Cut
B.M.	3.91	6.06		2.15		

0+0 = S.L. pump house

				- 2.50	changed 2nd floor Elev	
				- 4.35		
0+34				- 3.19		
0+58		4.52	1.54	- 2.36		3.90
0+75		4.55	1.51	- 2.32		3.83
1		4.70	1.36	- 2.26		3.62
+25		4.80	1.26	- 2.20		3.46
+50		4.93	1.13	- 2.13		3.26
+75		5.05	1.01	- 2.07		3.08
2 breaks		5.05	1.01	- 2.00		3.01
+25		4.68	1.38	- 1.79		3.17
+50		4.38	1.68	- 1.57		3.25
+75		4.02	2.04	- 1.35		3.39
3		3.66	2.40	- 1.13		3.53
+25	6.40	9.15	3.31	2.75	- 0.91	3.66
+50		6.14	3.01	- 0.70		3.71

Elev discharge - 4.15

10

15 joints 3 6" GI,
should be 17 joints

2.15	2.15	5.65
3.07	3.50	10.06
5.22	5.65 MI	4.41
4.15	3.19	4.35
7.37	8.84	2.36
	4.10	2.29
	4.74	

5) 200 | 340
 174
 260
 232
 280

9.15

3475 on curb

5.78 3.37 -0.48

4 5.46 3.69 -0.26

+50 4.52 4.63 +0.18

5 3.63 5.52 +0.62

+50 2.84 6.31 +1.05

6 2.71 6.44 +1.49

+50 2.39 6.76 +1.93

4.77 11.53

157 = M.H.

D +2.00

" " " " elev. bottom

D
+0.48

3.85

3.95

4.45

4.90

5.26

4.95

4.83

6.76

4.27

11.03

2.00

9.03

60

8.43

11

6" service line west Point Loma Blvd from
 M.H. near pump house north easterly for 383' to existing
 8" sewer - stakes set 6' N of ϕ - see book 966 P. 41

37	B.M.	4.84	6.35	1.51	
	0 to M.H.				
	+25				-8.00
	+50				-7.69
	1	4.91	1.44	-7.63	9.07
		5.39	0.96	-7.96	8.22
		5.33	1.02	-6.89	7.91
		4.85	1.50	-6.74	8.02
		5.11	1.24	-6.50	7.74
				-6.26	
	3	4.51	1.84	-5.91	7.75
		3.72	2.63	-5.28	7.91
	+50	2.75	3.60	-4.65	8.25
	+83 end of existing 8" sewer	2.05	4.30	-4.24	8.54

150.
 +70
 +70
 +703 Break
 M.H. R 170 41' H 66'

150	5.86	7.4
4.36	6.74	145
5.86 M	(12.60)	5.86
	2.60	6.89
		12.75
5.86	2.32	2.32
	10.76	10.76
	13.08	13.08
	5.86	5.86
	7.22	7.22
1.50	4.49	5.96
4.41		6.49
5.91 M		12.90
2.15	6.22	6.22
4.07	13.91	13.52
6.22 M	-7.69 = bot 18" at M.H.	-7.30
2.15	M.H. 2103	2.50
5.07	7.22	3.72
7.22 M	6.50	6.2
	13.72	113.9
	10	126
	3.72	237.4
7.22	3.50	
6.26	3.98	
13.48	7.48 M	
3.48	6.26	
2.15	13.74	
3.94	3.74	
6.09 M		
4.54	13.80	
1.55	7.78 elev bottom M.H.	
	7	
	7.78	
	6.25	6.25
	7.69	7.66
	13.94	13.91
	6	13.88
	8.94	7.88
	7.94	7.91

13.80 rod bottom 18" pipe
 13.87

6.09 M
 4.54
 1.55
 7.78 elev bottom M.H.

6.25 6.25 6.25
 7.69 7.66 7.63
 13.94 13.91 13.88
 6 7.88
 8.94 7.91
 7.94

16" Cement Effluent line from M.H. Near Pump house
 To septic tank.
 stakes set 6' off B.M.

B.M.	4.75	6.26	1.51	
0+0 = M.H. near pump house	7.94	-1.68	-8.00	
			-17.96	
+50	4.28	2.03	-7.82	
			-7.73	
1	5.33	0.93	-7.64	
125			-7.55	
+50	5.28	0.98	-7.45	
			-7.37	
2	4.70	1.56	-7.27	
417			-7.21	
+50	4.31	1.95	-7.08	
+73 M.H. Break R 27° 32' 1/2"	4.22	2.04	-7.00	
	9.11	11.15		
3	8.76	2.39	-6.89	
+50	8.11	3.04	-6.69	
4	7.45	3.70	-6.47	
+50	6.34	4.81	-6.27	
5	5.53	5.62	-6.05	
+50	4.23	6.92	-5.85	
+77 = outlet from septic tank			-5.75	

5.77
 5.73
 5.72
 5.71

Cut	1.51 4.92 6.43 1.00 7.43	11.65 5.86 5.69	11.15 0.45 10.67	37 17 5.43 37 6
	6.32	1.51 4.34 5.85	5.85 7.96 13.67	
	9.85	8.57	13.81 9.00 4.81	
	8.43	2.15 4.35 6.50 7.82 14.32	2.15 4.49 6.50 8.64 5.23	6.00 7.64 7.54 13.64 13.50 13.45 3.45
	✓ 8.83	1.51 3.87 5.42 2.00 3.42	1.51 4.39 6.40 6.32 7.45 13.77	6.96 7.27 7.21 7.33 14.23 14.17 14.29 4.29
	9.03	1.51 5.06 6.57 7.41 13.78 7.98 5.22 2.76 7.21 9.97	1.51 4.81 6.32 7.45 13.77	6.96 7.27 7.21 7.33 14.23 14.17 14.29 4.29
	9.04	1.51 5.06 6.57 7.41 13.78 7.98 5.22 2.76 7.21 9.97	1.51 4.81 6.32 7.45 13.77	6.96 7.27 7.21 7.33 14.23 14.17 14.29 4.29
	9.28	1.51 5.06 6.57 7.41 13.78 7.98 5.22 2.76 7.21 9.97	1.51 4.81 6.32 7.45 13.77	6.96 7.27 7.21 7.33 14.23 14.17 14.29 4.29
	9.73	1.51 5.06 6.57 7.41 13.78 7.98 5.22 2.76 7.21 9.97	1.51 4.81 6.32 7.45 13.77	6.96 7.27 7.21 7.33 14.23 14.17 14.29 4.29
	10.17	1.51 5.06 6.57 7.41 13.78 7.98 5.22 2.76 7.21 9.97	1.51 4.81 6.32 7.45 13.77	6.96 7.27 7.21 7.33 14.23 14.17 14.29 4.29
	11.08	1.51 5.06 6.57 7.41 13.78 7.98 5.22 2.76 7.21 9.97	1.51 4.81 6.32 7.45 13.77	6.96 7.27 7.21 7.33 14.23 14.17 14.29 4.29
	11.67	1.51 5.06 6.57 7.41 13.78 7.98 5.22 2.76 7.21 9.97	1.51 4.81 6.32 7.45 13.77	6.96 7.27 7.21 7.33 14.23 14.17 14.29 4.29
	12.79	1.51 5.06 6.57 7.41 13.78 7.98 5.22 2.76 7.21 9.97	1.51 4.81 6.32 7.45 13.77	6.96 7.27 7.21 7.33 14.23 14.17 14.29 4.29
	12.08 New cut.	2.15 4.09 6.24 9.23 15.47	2.15 4.09 6.18 8.17 12.00	+0.77 +2.00

Pole opp Chamberlains Res.

6" C.I. Pipe Newport Ave anchored on Bertrough Bldg

15

4.59

11.09

6.50

0+0 = 3. end of 6" C.I. pipe through seawall. -1.74

+12	4.84	6.25	-1.60	7.85
+24	4.84	6.25	-1.45	7.70
+36	4.86	6.23	-1.31	7.54
+48	4.83	6.26	-1.16	7.42
+60	4.87	6.22	-1.02	7.29
+72	4.86	6.23	-0.87	7.10
+84	4.84	6.25	-0.73	6.98
+96	4.84	6.25	-0.58	6.83
+108	4.86	6.23	-0.44	6.67
+120	4.88	6.21	-0.39	6.50
+132	4.83	6.26	-0.15	6.41
+144	4.83	6.26	0.00	6.26

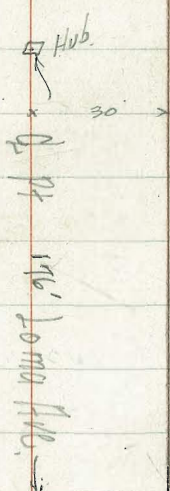
155.7
4.5
160.2

3/28/24 Gregory Levels and Location
Point Loma Ave OUTFALL

7036

16

on B.M.	Levels	Location	Point Loma Ave	OUTFALL	
	2.35	38.47		36.12	BP NW De Mar + De Foe
T.P.	4.61	32.47	8.61	29.86	
T.P.	4.45	24.55	12.37	20.10	
			5.42	19.13	on c.b. NW De Foe + Pt Loma
T.P.	0.62	12.82	12.35	12.20	
	Levels on d. Pt Loma Ave				
185' Max W.L. De Foe			4.8	8.0	
188' ✓ ✓ ✓ ✓			4.4	8.4	
192' ✓ ✓ ✓ ✓			6.6	7.4	
200' ✓ ✓			9.3	3.5	Rock
206' ✓ ✓			10.9	1.9	
T.P.	0.32	0.20	12.94	-0.12	
212' Max W.L. De Foe			+ 3.9	-3.7	
240' ✓ ✓ ✓			4.9	-4.7	on Rock
275' ✓ ✓ ✓			6.0	-5.8	Rock 0.5 Lower
300' ✓ ✓ ✓			6.7	-6.5	
350' ✓ ✓ ✓			7.7	-7.5	
400' ✓ ✓ ✓			8.3	-8.1	Rock 3.5 Lower
410' ✓ ✓ ✓			8.4	-8.2	Rock 3.3 Lower
450' ✓ ✓ ✓			9.0	-8.8	
475' ✓ ✓ ✓			9.5	-9.3	Rock 2 Lower
500' ✓ ✓ ✓			10.0	-9.8	on Rock



De Foe

37

3/28/24 Gregory CROSS SECTION OF
West End of Pt Loma Ave.

17

				10' S. of G	3.7	19.6
	11.17	23.37	1220	G	3.8	19.5
			TP on page 16			
			135' W. of WL De Foe	10' N. of G	3.9	19.4
3. cb		4.80	18.5	20' ✓ ✓ ✓	6.0	17.3
3 gutter		5.6	17.7			
5' N. of 3. cb		4.8	18.5	154' W. of WL De Foe	4.7	18.6
20' N. of 5T		4.6	18.7	20' N. of G	4.5	18.8
11' N. of G		5.1	18.2	G	4.6	18.7
14' ✓ ✓ ✓		5.6	17.7	20' S. of G	4.6	18.7
20' N. gutter		5.9	17.4			
11' cb		5.02	18.3	160' W. of WL De Foe	6.0	17.3
			on cement	20' S. of G	4.6	18.7
			142' W. of WL De Foe	12' ✓ ✓ ✓	8.5	14.8
11' gutter		6.0	17.3	9' ✓ ✓ ✓	8.4	14.9
9' N. of G		4.6	18.7	3' ✓ ✓ ✓	8.4	14.9
G		3.8	19.5	G	7.6	15.7
10' S. of G		3.5	19.8	10' N. of G	6.4	16.9
20' ✓ ✓ = 5 gutter		5.9	17.4	14' ✓ ✓ ✓	4.9	18.4
			148' W. of WL De Foe	20' ✓ ✓ ✓	4.4	18.9
20' S. of G		4.3	19.			
15' ✓ ✓ ✓		4.4	18.9	164' W. of WL De Foe	4.5	18.8
				20' N. of G	4.6	18.7
				14' ✓ ✓ ✓		

10' N. of d	7.3	16.0
d	10.4	12.9
10' S. of d	11.3	12.0
14' " " "	8.6	14.7
16' " " "	5.9	17.4
20' " " "	10.5	12.8
170' W. of W.L. De Foe		
20' S. of d	10.8	12.5
16' " " "	10.2	13.1
15' " " "	11.1	12.2
10' " " "	12.5	10.8
5' " " "	11.1	12.2
d	7.4	15.9
4' N. of d	7.0	16.3
10' " " "	3.4	19.9
20' " " "	4.3	19.0
171' W. of W.L. De Foe		
20' N. of d	4.3	19.0
9' " " "	3.2	20.1
4' " " "	1.1	22.2

d	7.1	16.2	25
10' S. of d	12.4	10.9	
15' " " "	13.0	10.3	
20' " " "	17.0	6.3	
176' W. of W.L. De Foe			
20' S. of d	17.7	15.6	
17' " " "	17.6	15.7	
15' " " "	13.0	10.3	
11' " " "	12.4	10.9	
5' " " "	6.6	16.7	
2' " " "	0.6	22.7	
d	0.53	22.8	on hub
20' N. of d	1.4	21.9	
179' W. of W.L. De Foe			
20' N. of d	1.0	22.3	
d	0.7	22.6	stop of block
185' W. of W.L. De Foe			
d	15.4	7.9	
10' N. of d	0.9	22.4	Top of Block
20' " " "	0.8	22.5	" " "

1/10/25

Cross Section of 37th St. Florence to National.

Moore
Preston
Walker

60' wide
10' at
10' /us

75.78

19

S.E.T. to H.V.T. 0.17 87.85 87.68 Florence + 35th

I.P. 0.37 75.78 12.44 75.41

Shot Florence = 0 + 0

E 6.0 69.8

cb 6.4 69.4

1/4 6.5 69.3

e 7.1 68.7

1/4 7.0 68.8

cb 7.4 68.4

1/4 7.7 68.1

25'S

1/4 8.2 67.6

cb 7.9 67.9

1/4 7.4 68.2

c 7.2 68.4

1/4 7.1 68.7

cb 6.9 68.9

E 6.6 69.2

5'S

E 7.3 68.5

cb 7.6 68.2

1/4 7.5 68.3

c 7.9 67.9

1/4 7.9 67.9

cb 8.4 67.4

1/4 8.9 66.9

75'S

1/4 9.0 66.6

cb 9.0 66.8

1/4 8.8 67.0

c 8.8 67.0

1/4 8.3 67.5

cb 8.1 67.7

E 8.0 67.8

100'S

E 9.0 76.8

cb 9.0 76.5

1/4 9.6 76.2

c 10.0 75.8

+3 10.2 75.6

7578

+5 11.5 64.3

+8 10.1 65.7

1/4 10.0 65.8

cb 10.2 65.6

w 10.5 65.3

125'S

w 12.0 63.8

cb 11.9 63.9

+3 12.2 63.7

+6 11.9 63.9

1/4 11.8 64.0

c 11.4 64.4

+5 11.5 64.3

1/4 10.7 65.1

cb 10.2 65.5

E 9.8 66.0

150'S

E 10.2 65.8

+3 10.4 65.4

cb 11.4 64.4

7578

37+4
20

+7 11.7 64.1

1/4 11.6 64.4

c 11.9 63.9

1/4 12.9 62.9

cb 13.2 62.6

w 13.0 62.8

175'S

w 14.0 61.8

cb 14.0 61.8

1/4 13.9 61.9

c 13.3 62.5

+3 12.8 63.0

1/4 12.7 63.1

cb 12.6 62.2

+4 12.5 62.3

E 11.5 64.3

F.P. 163 64.81 12.60 63.18

200'S

E 3.3 61.5

+5 3.7 61.1

	64.81		
cb		3.4	61.5
1/4		3.7	61.1
c		3.9	60.9
1/2		4.1	60.7
cb		3.6	61.2
+8		3.2	61.6
w		2.7	62.1
	216'S		
w		2.8	62.0
+2		2.9	61.9
+4		3.6	61.2
cb		3.9	60.9
+5		4.0	60.8
+7		6.0	58.8
1/4		4.7	60.1
cb		5.4	59.4
1/4		5.7	59.1
cb		5.5	59.3
+7		5.6	59.2
E		5.2	59.6
+5		5.6	59.2

	64.81		37+4 21
	218'S		
w 1/4		4.9	59.9
+1		5.0	59.8
+2		6.0	58.8
+5		5.9	58.9
+6		5.5	59.3
+7		4.2	60.6
cb		4.1	60.7
+7		3.7	61.1
+9		2.9	61.9
w		2.8	62.0
	235'S		
-10		8.3	56.5
E		8.3	56.5
cb		8.3	56.5
1/4		8.2	56.6
c		8.0	56.8
1/4		7.4	57.4
+1		7.4	57.4
+4		8.5	56.3
+8		8.3	56.5

	64.81		
cb		6.7	58.1
+6		6.6	58.2
+9		5.5	59.3
w		5.3	59.5
	242'S		
w		6.7	58.1
+4		7.6	57.2
cb		7.9	56.9
+3		7.9	56.9
+4		9.0	55.8
+6		9.2	55.6
+7		8.1	56.7
w 1/4		8.4	56.4
	250'S		
w		7.8	56.0
cb		8.7	56.1
1/4		9.2	55.6
c		9.6	55.2
1/4		9.7	55.1
cb		9.8	55.0

	64.81		37+4 22
E		10.2	54.6
+10		10.1	54.7
	265'S		
-10		11.3	53.5
E		10.6	54.2
cb		10.9	53.9
1/4		11.0	53.8
c		11.1	53.7
1/4		11.0	53.8
cb		10.8	54.0
+1		10.4	54.4
w		10.1	54.7
	286.2'S = NL of Logan		
w		12.7	52.5
cb		12.4	52.4
1/4		12.5	52.3
c		12.3	52.5
1/4		11.9	52.9
cb		11.4	53.4
E		11.1	53.7

See Culvert
Notes on
Logan +37+4

64.81

SL LOGAN 2000

E	4.0	60.8
cb	5.2	59.6
1/2	6.4	58.4
C	8.1	56.7
1/2	10.1	54.7
cb	11.2	53.6
w	12.2	52.6
25'S		
-5	9.8	55.0
w	9.3	55.5
cb	8.4	56.4
1/2	8.0	56.8
C	7.1	57.7
1/2	6.5	58.3
+5	6.0	58.8
cb	5.0	59.8
E	4.5	60.3
50'		
E	4.7	60.1

64.81

37+7

23

+2	5.3	59.5
cb	5.9	58.9
1/2	6.9	57.9
C	7.8	57.0
1/2	8.5	56.3
cb	8.8	56.0
w	9.3	55.5
+5	9.8	55.0
75'S		
-5	9.8	55.0
w	9.6	55.2
cb	9.2	55.6
1/2	9.0	55.8
C	8.2	56.6
1/2	7.3	57.5
cb	5.7	59.1
E	4.9	59.9
100'S		
E	4.8	60.0
cb	5.2	59.6

64.81

1/4	6.4	58.8
C	7.8	57.0
1/4	8.8	56.0
cb	9.4	55.4
w	9.8	55.0
+5	10.3	54.5 on lawn

125'S

-5	10.5	54.3
w	10.2	54.6
cb	9.3	55.5
1/4	8.6	56.2
C	7.5	57.3
1/4	6.1	58.7
+4	4.8	60.0
cb	5.0	59.8
E	5.1	59.7

150'S

E	5.9	58.9
cb	5.7	59.1
+6	5.4	59.4

64.81

+7	7.3	57.5
1/4	7.6	57.2
c	8.3	56.5
1/4	9.1	55.7
cb	9.9	54.9
w	11.0	53.8
+5	11.2	53.6

175'S

-5	12.6	52.2
w	12.1	52.7
cb	11.7	53.1
1/4	11.0	53.8
C	10.2	54.6
+7	9.2	55.7
1/4	8.6	56.2
+3	7.8	57.0
cb	7.4	57.4
E	6.8	58.0

200'S

E	7.6	57.2
---	-----	------

37+4
24

64.81

cb		8.3	56.5
+9		9.1	55.7
1/4		9.5	55.3
+2		10.5	54.3
c		11.3	53.5
1/4		11.8	53.0
cb		12.5	52.3
w		12.9	51.9
+5		13.1	51.7
	225'S		
-5		13.3	51.5
w		12.7	52.1
cb		12.2	52.6
1/4		11.8	53.0
+5		12.1	52.7
c		11.6	53.2
+6		10.7	54.1
+8		9.6	55.2
1/4		8.8	56.0
cb		7.8	57.0

64.81

3774
25

E		7.0	57.8
	250'S		
E		7.8	57.0
cb		8.5	56.3
1/4		8.8	56.0
+5		10.3	54.5
+8		11.4	53.4
c		11.7	53.1
1/4		11.9	52.9
+5		11.6	53.2
cb		11.9	52.9
w		11.9	52.9
+5		11.9	52.9
	271'S		
w		12.5	52.3
cb		12.5	52.3
+6		12.2	52.5
+8		13.3	51.5
1/4		13.6	51.2
+7		13.3	51.5

		64.81				57.84		37+4
+9			13.7	51.1	cb		6.4	514
C			12.8	52.0	+4		7.0	508
+4			10.5	54.3	+5		5.9	51.9
1/4			9.4	55.4		293'S		
+1			9.0	55.8	w1		6.1	51.7
cb			9.2	55.6	+b		6.0	51.8
E			9.1	55.7	+7		7.2	50.6
T.P.	2.23	57.84	9.30	55.51	cb		8.4	49.2
	281'S				+5		8.5	49.3
E			2.3	55.5	+7		9.1	48.7
cb			2.6	55.2	1/4		8.8	49.0
+9			2.9	54.9	C		9.0	48.8
1/4			4.4	53.4	+5		7.8	50.0
+1			5.9	51.9	+8		6.8	51.0
+5			6.8	51.0	1/4		5.3	52.5
C			7.7	50.0	+2		4.7	55.1
+5			8.0	49.8	cb		2.7	55.1
1/4			7.6	50.2	E		2.3	55.5
+2			7.5	50.3		296'S		
+4			6.8	51.0	E		2.9	54.9

57.8 ✓

cb	2.8	55.0
+8	2.8	55.0
1/4	5.6	52.2
+5	8.4	49.4
c	9.0	48.8
1/4	9.5	48.3
cb	9.5	48.3
+5	9.6	48.2
w	8.7	49.1

299'S

E 1/4	9.0	48.8
+3	7.7	50.1
cb	6.7	51.1
E	7.2	50.5

300'S = NL of National

E	7.2	50.5
cb on Return	8.86	48.98
+7	8.5	49.3
1/4	9.2	48.6
c	9.6	48.2

57.8 ✓

1/4	9.7	48.1
cb on Conn Return	9.97	47.97
w	9.5	48.3
TP on ^{SW 8744} BP + National	11.0 ~	46.8 ~

37+4

27

Moore
Preston
Walker

Cross Section
of Newton Ave

80' wide
14' cbs
13' 1/2'

50.56

Newton

28

	37th	50.56	46.82						
	10' w of W.L. 37th								
N				80' wide 14' cbs 10' 1/4'	N			13.2	37.4
cb					+5			12.2	38.4
1/4					cb			11.4	39.2
cb					1/4			11.6	39.0
1/4					c			10.8	39.8
c					1/4			11.0	39.6
1/4					cb			10.7	39.9
cb					s			10.5	40.1
S									
	W.L. 37th								
S					s			9.2	41.4
cb					cb			9.7	40.9
1/4					1/4			10.0	40.6
c					c			9.5	41.1
1/4					+9			9.7	40.9
+5					1/4			10.4	40.2
+10					+6			11.0	39.6
cb					cb			11.0	39.6
N					+8			11.0	39.6
					N			12.0	38.6

50.56

E

N	11.4	39.2
cb	10.5	40.1
1/4	10.3	40.3
e	9.4	41.2
1/4	9.4	41.2
cb	8.7	41.9
S	8.6	42.0

E 1/4

S	8.4	42.2
cb	8.3	42.3
1/4	8.5	42.1
e	8.8	41.8
1/4	9.3	41.3
+3	9.6	41.0
+7	9.0	41.6
cb	9.1	41.5
N	10.3	40.3

E ct

N	8.9	41.7
---	-----	------

50.56

Newton

29

cb	8.4	42.4
+6	7.7	42.9
+8	8.2	42.4
1/4	8.3	42.3
c	7.9	42.7
1/4	7.6	43.0
cb	7.4	43.2
S	7.5	43.1

E L. 37+4 = 0+00

S	6.1	44.5
cb	6.3	44.3
1/4	6.7	43.9
c	6.9	43.7
1/4	7.1	43.5
+6	7.1	43.5
+8	6.6	44.0
cb	6.8	44.1
N	7.3	43.3

25'E

N	4.0	46.6
---	-----	------

50.56

cb		3.4	47.2
+7		3.6	47.0
1/4		3.9	46.7
c		3.9	46.7
1/4		4.4	46.2
+3		4.0	46.6
cb		4.2	46.4
s		4.6	46.0

50' E

s		3.2	47.4
cb		2.8	47.8
1/4		2.5	48.1
c		2.7	48.5
1/4		1.7	48.9
+5		0.6	50.0
cb		0.5	50.1
1/4		0.3	50.3

T.P. 12.12 62.43 0.25 50.31

75'

N 11.3 51.7

62.43

Newton

30

cb		11.5	50.9
+6		11.6	50.8
1/4		12.5	49.9
c		12.6	49.8
1/4		13.0	49.4
+2		12.5	49.9
cb		12.9	49.5
s		13.4	49.0

100' E

s		12.0	50.4
cb		11.8	50.6
1/4		11.3	51.1
c		11.0	51.4
1/4		10.9	51.5
+5		10.1	52.3
cb		9.9	52.5
1/4		9.7	52.7

125' E

N 8.9 53.5

cb 9.2 53.2

62.43

+8		9.2	53.2
1/4		9.6	52.8
c		9.5	52.9
1/4		10.1	52.3
cb		10.8	51.6
S		11.0	51.4
	150' E		
S		9.6	52.8
cb		9.5	52.9
1/4		9.2	53.0
c		8.9	53.5
1/4		8.6	53.8
+4		8.1	54.3
cb		7.9	54.5
n/		7.5	54.9
	175' E		
n/		6.9	55.5
cb		7.5	54.9
1/4		8.2	54.2
c		7.9	54.5

62.43

Newton
31

1/4		8.3	54.1
cb		8.2	54.1
S		8.6	53.8
	290' E		
S		7.9	54.5
cb		7.8	54.6
1/4		7.2	55.1
c		7.3	55.1
1/4		7.5	54.9
cb		7.2	55.2
n/		6.4	56.0
	225' E		
n/		5.6	56.8
cb		6.2	56.2
1/4		6.4	56.0
c		6.7	55.7
1/4		6.9	55.5
cb		7.3	55.1
S		7.7	54.7

	250 E	62.43		
S			8.1	54.3
cb			7.1	55.3
+4			6.4	56.0
1/4			6.2	56.2
c			6.0	56.4
1/4			6.0	56.4
cb			6.0	56.4
N			5.4	57.0
	275 E			
N			4.7	57.7
cb			5.3	57.1
1/4			5.1	57.3
c			5.0	57.4
1/4			5.3	57.1
cb			5.1	57.3
S			6.0	56.4
+5			6.3	56.1
	300 E			
-5			4.7	57.7
S			4.6	57.8

		62.43		Newton 32
cb			3.9	58.5
+8			3.3	59.1
+10			3.8	58.6
1/4			4.0	58.4
e			3.7	58.7
1/4			3.5	58.9
cb			3.3	59.1
N			3.1	59.3
	325 E			
N			1.9	60.5
cb			2.0	60.4
1/4			2.2	60.2
c			2.3	60.1
1/4			2.2	60.2
cb			1.5	60.9
S			1.4	61.2
T.P.	12.13	74.26	0.30	62.13
	350 E			
S			11.2	63.1
cb			11.7	62.6

7426

1/4		12.3	62.0
e		12.7	61.6
1/2		12.7	61.6
cb		12.5	61.8
N		11.8	62.5
	375' E		
N		10.4	63.9
cb		11.0	63.3
1/4		11.1	63.2
e		10.5	63.8
1/2		10.5	63.8
+2		10.6	63.7
+7		9.7	64.5
cb		9.6	64.7
S		9.3	65.0
	395' E		
S		8.2	66.1
cb		8.1	66.2
+7		8.2	66.1
+9		9.2	65.1

74.26

33
Newton

1/4		9.2	65.1
e		8.9	65.4
1/2		9.4	64.9
cb		9.2	65.1
N		9.4	64.9
	400' E		
N		7.8	66.5
cb		7.7	66.6
1/4		8.9	65.4
e		8.5	65.8
1/2		8.9	65.4
+6		8.8	65.5
+8		7.2	67.1
cb		7.2	67.1
S		7.6	66.9
	425' E		
S		5.2	69.1
cb		5.2	68.9
+7		5.9	68.4
+11		6.7	67.6

74.26

1/2	6.7	67.6
e	6.6	67.7
+10	6.7	67.6
1/2	6.2	68.1
cb	5.8	68.5
N	6.0	68.3

455'E

N	4.8	69.5
cb	4.8	69.5
1/2	4.8	69.5
e	4.6	69.7
1/2	4.9	69.4
+4	4.9	69.4
+5	4.3	70.0
cb	3.9	70.4
S	3.7	70.6

475'E

S	2.6	71.7
cb	2.8	71.5
+6	3.0	71.3

74.26

34
Newton

1/2	4.1	70.2
+3	3.7	70.6
e	3.9	70.4
1/2	3.9	70.4
cb	3.4	70.9
N	3.3	71.0

500'E

N	1.4	72.9
cb	1.5	72.8
1/2	2.7	71.6
e	2.8	71.5
1/2	2.9	71.4
+4	2.9	71.4
+5	1.5	72.8
cb	1.2	73.1
S	0.9	73.4

525'E

S	0.2	74.1
cb	0.5	73.8
+7	0.6	73.7

		74.26		
+9			1.6	72.7
1/4			1.7	72.5
c			1.6	72.7
1/4			1.3	73.0
cb			0.7	73.5
N			0.7	73.6
T.P.	520	79.05	0.41	73.85
	550' E			
N			4.6	74.4
cb			4.7	74.3
1/4			5.0	74.0
e			5.0	74.0
1/4			5.5	73.5
+4			5.4	73.6
+6			4.2	74.8
cb			4.1	74.9
S			4.2	74.8
	575' E			
S			4.1	74.9
cb			3.8	75.2

		79.05		
+7			3.7	75.3
+9			4.7	74.3
1/4			4.6	74.4
c			4.3	74.7
1/4			4.5	74.5
+6			4.0	75.0
cb			3.8	75.2
N			4.0	75.0
	600' E =	2.0 + 38th =		60' wide
N			3.8	75.2
cb			3.7	75.3
1/4			4.2	74.8
e			4.0	75.0
1/4			4.1	74.9
+4			4.0	75.0
+6			3.1	75.9
cb			3.0	76.0
S			3.1	75.9
+8				
S			3.1	75.9

35' Newton

10' cb
10' 1/4's

79.05

cb		3.1	75.9
+8		3.2	75.8
+10		3.8	75.2
1/2		4.0	75.0
c		3.8	75.2
1/4		4.2	74.8
cb		4.0	75.0
1/2		4.1	74.9
	w cb		
1/2		4.1	74.9
cb		4.1	74.9
1/2		4.2	74.8
e		3.8	75.2
1/2		3.9	75.1
cb		4.2	74.8
S		4.1	74.9
	w 1/4		
S		3.9	75.1
cb		3.9	75.1
1/4		3.7	75.3

79.05

c		3.7	75.3
1/4		3.9	75.1
cb		4.0	75.0
N		4.3	74.7
	±		
1/2		4.1	74.9
cb		4.0	75.0
1/2		3.9	75.1
c		3.7	75.3
1/4		3.6	75.4
cb		3.7	75.3
S		3.6	75.4
	E 1/4		
S		3.7	75.3
cb		3.8	75.2
1/4		3.8	75.2
L		3.7	75.3
1/4		3.8	75.2
cb		4.0	75.0
1/2		4.1	74.9

36

Newton

79.05

+ 8

n	4.0	75.0
cb	3.8	75.2
1/4	3.9	75.1
c	3.7	75.3
1/4	3.8	75.2
cb	3.7	75.3
S	3.6	75.4
E cb		
S	2.1	76.9
cb	2.3	76.7
+ 8	2.8	76.2
+ 11	3.8	75.2
1/4	3.8	75.2
c	3.7	75.3
1/4	3.6	75.4
+ 14	2.6	76.4
cb	3.0	76.0
n	2.9	76.1

79.05

Newton

37

EL of 38th = 0+00

n	3.1	75.9
cb	2.7	76.3
+ 10	2.3	76.7
1/4	3.5	75.5
c	3.5	75.5
1/4	3.8	75.2
+ 3	3.7	75.3
+ 5	2.6	76.4
cb	2.4	76.6
S	2.3	76.3
ON 13 Mon. Newton 438th	3.62	75.43
25' E		
S	2.4	76.6
cb	2.2	76.8
+ 5	2.1	76.9
+ 11	3.7	75.3
1/4	3.5	75.5
c	3.4	75.6
1/4	3.8	75.2

	79.05		
+1	3.7	75.3	
+3	2.4	76.6	
cb	2.6	76.4	
N	3.1	75.9	
50' E			
N	2.3	76.7	
cb	2.8	76.2	
+6	3.4	75.6	
+11	4.3	74.7	
1/4	4.4	74.6	
c	4.1	74.9	
1/4	4.4	74.6	
+2	4.3	74.7	
+6	2.7	76.3	
cb	2.7	76.3	
S	3.0	76.0	
75' E			
S	3.4	75.6	
cb	3.7	75.3	
+8	4.3	74.7	

	79.05		Newton
+11	5.0	74.0	38
1/4	5.1	73.9	
c	5.1	73.9	
1/4	5.0	74.0	
+3	4.9	74.1	
+6	3.8	75.2	
cb	2.8	76.2	
N	1.9	77.1	
100' E			
N	2.2	76.8	
cb	2.8	76.2	
+8	4.2	74.7	
+11	5.5	73.5	
1/4	5.8	73.2	
c	5.9	73.1	
1/4	5.9	73.1	
+2	5.7	73.3	
+6	4.0	75.0	
cb	3.9	75.1	
S	4.1	74.9	

	101' E	79.05		
S			4.4	74.5
cb			4.5	74.5
+8			5.1	73.9
S 1/4			6.1	72.9
	125' E			
S			6.4	72.5
cb			6.5	72.5
1/4			6.9	72.1
e			6.6	72.1
1/4			6.4	72.6
cb			5.2	73.8
1/4			4.4	74.6
	150' E			
1/4			4.8	74.2
cb			5.5	73.5
+11			6.8	72.2
1/4			6.8	72.2
c			7.1	71.9
1/4			7.5	71.5
cb			7.8	71.2

		79.05	Newton	
S			8.1	70.9
	175' E			
S			8.4	70.6
cb			8.3	70.7
1/4			7.8	74.2
c			7.1	71.9
1/4			7.0	72.0
+5			6.7	72.3
+7			6.1	72.9
cb			5.9	73.1
1/4			5.4	73.6
	200' E			
1/4			5.7	73.3
cb			6.0	73.0
+6			6.2	72.8
+8			7.2	71.8
1/4			7.3	71.7
c			7.6	71.4
1/4			8.1	70.9
cb			8.1	70.9
S			8.7	70.3

	225° E	79.05		
S			9.5	69.5
cb			8.7	70.3
+8			7.9	71.1
1/4			8.4	70.6
c			7.8	71.2
1/2			7.5	71.5
+6			7.2	71.8
+8			5.9	73.1
cb			6.0	73.0
N			6.1	72.9
	250° E			
N			7.4	71.6
cb			7.2	71.8
+6			7.2	71.8
+7			8.6	70.4
1/4			8.9	70.1
c			8.8	70.2
1/2			9.3	69.7
+4			8.6	70.4
cb			9.5	69.5
S			10.2	68.8

	275° E	79.05		Newton
				40
-5			12.9	66.1
S			12.6	66.4
cb			11.5	67.5
+10			10.5	68.5
1/4			11.1	67.9
c			10.8	68.2
1/2			10.8	68.2
+6			10.8	68.2
+8			9.4	69.5
cb			9.6	69.4
N			10.4	68.6
+5			10.8	68.2
T.P.	-0.0'	66.16	12.88	66.17
	300° E			
-5			1.6	64.5
N			1.6	64.5
cb			6.8	65.4
+5			0.7	65.5
+9			1.3	65.9

6616

1/4	1.2	65.0
e	1.0	65.2
1/4	0.9	65.3
+2	0.6	65.6
cb	1.3	64.9
S	2.3	63.9
+5	2.6	63.6
325' E		
-10	6.1	60.1
S	5.5	60.7
+7	4.6	61.6
cb	5.2	61.0
1/4	5.1	61.1
+5	4.2	62.0
e	4.2	62.0
1/4	4.2	62.0
+11	5.2	61.0
cb	5.7	60.5
N	6.2	60.0
+10	6.3	59.9

6616

Newton 41

332' E		
-10	7.4	58.8
N	7.3	58.9
cb	6.5	59.7
+6	5.3	60.9
1/4	4.9	61.3
C	5.0	61.2
+7	5.0	61.2
1/4	6.1	60.1
+5	7.0	59.2
cb	6.8	59.4
S	6.4	59.8
+10	7.1	59.1
336' E		
N 1/4	5.2	64.0
+7	5.8	60.4
cb	6.8	59.4
N	9.6	56.6
+15	9.1	57.1

	342 E	6616		
-15		9.4	56.8	
N		9.5	56.7	
cb		8.1	58.1	
+8		6.4	59.8	
N 1/4		5.8	60.4	
	345 E			
-15		10.5	55.7	
S		9.8	56.4	
cb		10.1	56.1	
+8		9.2	57.0	
1/4		7.5	58.7	
+4		6.4	59.8	
C		6.0	60.2	
1/4		5.8	60.4	
+10		6.5	59.7	
a		7.6	58.4	
+3		8.5	57.7	
+10		8.9	57.3	
N		8.1	58.1	

		6616		Newton 42
+10			6.8	59.4
	360 E			
-5			5.8	60.4
N			6.2	60.0
+10			7.0	59.2
cb			6.5	59.7
1/4			6.4	59.8
C			6.6	59.6
+8			6.8	59.4
1/4			8.0	58.2
+8			12.3	53.9
cb			12.8	53.4
S			13.0	53.2
+15			13.1	53.1
T.P.	577	6629	5.64	60.52
				Section of Meter Box
				Level notes for culvert on Newton bet 38th + 39th
	outlet = 0+00		16.7	49.6
	+20		15.9	50.4
	+25 = SL Newton		14.1	52.2
	+47		12.8	53.5

		66.29		
C			2.2	64.1
1/4			2.2	64.1
+7			2.1	64.2
cb			1.6	64.6
N			0.0	66.3
T.P.	753	73.66	0.16	66.13
	180' E			
N			4.5	69.2
+10			5.4	68.3
cb			5.4	68.3
+6			5.4	68.3
+8			6.1	67.6
1/4			6.5	67.2
+8			6.7	67.0
+11			6.4	67.3
C			6.5	67.2
+9			6.8	66.9
1/4			6.2	67.5
+6			6.0	67.7
cb			6.2	67.5
+7			6.6	67.1

		73.66		Newton 45
S			8.1	65.5 ⁶
	500' E			
S			7.0	66.8
+5			6.5	67.2
cb			6.3	67.3
1/4			5.9	67.8
C			5.3	68.4
1/4			4.7	69.0
+5			4.2	69.5
+6			3.7	70.0
cb			3.6	70.1
N			3.0	70.7
	525' E			
N			1.6	72.1
+6			2.2	71.5
cb			2.6	71.1
+9			2.7	71.0
1/4			3.3	70.4
C			4.4	69.3
+10			5.2	68.5

73.66

1/4	5.2	68.2
cb	6.1	67.6
S	7.8	65.9
+5	9.6	64.1
550' E		
-5	9.2	64.5
S	8.6	65.1
cb	7.2	66.5
1/4	5.9	67.8
C	5.0	68.7
+8	4.2	69.5
1/4	3.2	70.5
cb	2.9	70.8
N	1.3	72.4
575' E		
N	2.7	71.0
U	3.4	70.3
1/2	4.9	68.8
+4	5.3	68.4
+6	5.8	67.9

73.66

NewTON

C	6.5	67.2
1/4	7.3	66.4
cb	8.4	65.3
S	9.4	64.3
+5	10.3	63.4
600' E = W L of 39th		
-5	11.6	62.1
S	11.0	62.7
cb	10.2	63.5
1/4	9.1	64.6
C	8.1	65.6
1/4	6.5	67.2
cb	5.2	68.3
N	4.5	69.2
T.P.	7.05	80.56
0.15	73.51	
check to B.M. 12 near Newton + 32th	5.3	76.43
7543		

1/17/55
Moore

Cross Section 38+4
NATIONAL to BOSTON

60' wide
10' cto
10' 1/4's

80.56

47

80.56

Sl. Natl.

E	2.8	77.8
+5	3.3	77.3
cb	4.1	76.5
+1	4.8	75.8
1/4	5.0	75.6
c	5.1	75.5
1/4	5.3	75.3
+9	5.7	74.9
cb	5.1	75.5
w	4.8	75.8
25' S		
w	4.9	75.7
cb	5.3	75.3
1/4	5.4	75.2
c	5.1	75.5
1/4	5.1	75.5
+7	5.2	75.4
cb	4.5	76.1

+3

3.2

77.4

E

2.8

77.8

50' S

E

2.9

77.7

+7

3.4

77.2

cb

5.1

75.5

1/4

5.4

75.2

c

5.4

75.2

1/4

5.3

75.3

cb

5.7

74.9

+3

4.4

76.2

w

4.5

76.1

75' S

+1

4.6

76.0

+9

4.6

76.0

cb

5.7

74.9

1/4

5.6

75.0

c

5.7

74.9

1/4

5.7

74.9

cb

5.8

74.8

80.56

+1		5.6	75.0
+1/2		4.0	76.6
E		3.3	77.3
	100'S		
E		3.7	76.9
+5		4.1	76.5
cb		5.7	74.9
1/4		5.8	74.8
C		5.7	74.9
1/4		5.7	74.9
+9		6.0	74.6
cb		5.2	75.4
W		5.1	75.5
	115'S		
W		5.8	74.8
cb		6.2	74.4
1/4		5.9	74.7
C		5.8	74.8
1/4		6.0	74.6
cb		5.9	74.7

80.56

38+4

43

+5		4.5	76.1
E		4.1	76.5
	140'S		
E		4.3	76.3
+8		5.1	75.5
cb		6.0	74.6
1/4		6.0	74.6
C		6.0	74.6
1/4		6.1	74.5
cb		6.0	74.6
1/4		6.1	74.5
	145'S		
W		6.3	74.3
cb		5.9	74.7
1/4		6.1	74.5
C		6.1	74.5
1/4		6.1	74.5
cb		5.8	74.8
E		5.4	75.2

8056

160'S

E	5.2	75.4
cb	5.7	74.9
+1	6.1	74.5
1/4	6.0	74.6
c	6.1	74.5
1/4	6.2	74.4
cb	6.1	74.5
w'	6.2	74.4

175'S

w	5.8	74.8
cb	6.1	74.5
1/4	6.1	74.5
c	5.9	74.7
1/4	6.0	74.6
cb	6.0	74.6
+3	5.4	75.2
E	5.3	75.3

200'S

E	5.0	75.6
---	-----	------

8056

38+6

29

q	5.6	75.0
1/4	5.8	74.8
e	6.1	74.5
1/4	6.2	74.4
cb	6.3	74.3
w'	6.3	74.3

225'S

w'	6.1	74.5
cb	6.3	74.3
1/4	6.1	74.5
e	6.2	74.4
1/4	6.5	74.6
cb	5.7	74.9
E	5.6	75.0

250'S

E	5.3	75.3
+5	6.0	74.6
cb	6.2	74.4
1/4	6.0	74.6
c	6.0	74.6

8056

1/4		6.1	74.5
+6		6.4	74.2
cb		5.6	75.0
w		5.6	75.0
	225'S		
w		5.8	74.8
cb		6.0	74.5
+3		6.3	74.3
1/4		6.1	74.5
c		5.9	74.7
1/4		5.8	74.8
+7		5.7	74.9
cb		5.4	75.2
+5		5.5	75.1
E		4.9	75.7
	298.5 S Approx. = ALL of NEWTON		
E		4.7	75.9
cb		4.5	76.1
+1		5.4	75.2
1/2		5.7	74.9

8056

38+h

50

c		5.7	74.9
1/4		5.8	74.8
+7		6.0	74.6
cb		5.6	75.0
w		5.4	75.2
	SL of NEWTON = 0+00		
w		4.6	76.0
+8		4.5	76.1
cb		5.6	75.0
1/4		5.4	75.2
c		5.1	75.1
1/2		5.2	75.4
+8		5.0	75.6
cb		3.7	76.9
E		3.8	76.8
	25'S		
E		4.0	76.6
cb		4.0	76.6
+2		5.2	75.4
1/4		5.3	75.3

80.56

c	5.3	75.3
1/4	5.7	74.9
+8	5.8	74.8
cb	5.3	75.3
+2	4.8	75.8
w	4.9	75.7

50'S

w	5.1	75.5
+7	5.1	75.5
cb	6.0	74.5
1/4	5.7	74.9
-2	5.5	75.1
1/4	5.5	75.1
+8	5.3	75.3
cb	3.8	76.8
E	3.9	76.7

75'S

E	5.0	75.6
cb	5.0	75.6
+2	5.8	74.8

80.56

38+6 51

1/4	5.8	74.8
c	5.6	75.0
1/4	5.6	75.0
cb	6.0	74.6
+2	5.1	75.5
w	5.3	75.3

100'S

w	5.4	75.2
+9	5.3	75.3
cb	6.1	74.5
1/4	6.0	74.5
c	5.8	74.8
1/4	6.2	74.4
+8	5.9	74.7
cb	4.7	75.9
E	4.7	75.9

125'S

E	5.4	75.2
cb	5.3	75.3
+2	6.3	74.3

80.56

1/4	6.3	74.3
c	6.2	74.4
1/4	6.3	74.3
+9	6.5	74.5
cb	6.1	74.5
w	5.8	74.8

150'S

w	6.3	74.3
cb	6.2	74.4
+3	6.8	73.8
1/4	6.7	73.9
c	6.3	74.3
1/2	6.4	74.2
+6	6.4	74.2
cb	5.8	74.8
+3	5.5	75.1
E	5.9	74.7

175'S

E	6.7	73.9
cb	6.1	74.5

80.56

38+4 52

+2	6.8	73.8
1/4	6.8	73.8
c	6.8	73.8
1/4	6.9	73.7
+8	7.0	73.6
cb	6.6	74.0
w	6.5	74.1

T.P.	3.05	76.64	6.97	73.59
------	------	-------	------	-------

200'S

w	2.2	74.4
cb	2.4	74.2
+1	3.2	73.4
1/4	3.2	73.4
c	3.0	73.6
1/2	3.0	73.6
cb	3.0	73.6
E	3.3	73.3

225'S

E	3.6	73.0
cb	3.2	73.4

76.64

1/4		3.3	73.3
c		3.2	73.4
1/4		3.3	73.3
+8		3.2	73.4
cb		2.4	74.2
w		2.3	74.3
	250'S		
		2.8	73.8
cb		2.7	73.9
+2		3.5	73.1
1/4		3.5	73.1
c		3.2	73.4
1/4		3.4	73.2
+9		3.3	73.3
cb		2.7	73.9
E		2.7	73.9
	275'S		
E		3.6	73.0
cb		3.5	73.1
1/4		3.6	73.0

76.64

38+4

53

e		3.6	73.0
1/4		3.6	73.0
+8		3.5	73.1
cb		3.0	73.6
w		3.0	73.6
	300'S = N.L. Boston		80' wide
w		3.2	73.4
cb		3.2	73.4
+2		3.6	73.0
1/4		3.6	73.0
c		3.5	73.1
1/4		3.6	73.0
cb		3.7	72.9
E		3.7	72.9
	Ncb		
E		3.5	73.1
cb		3.3	73.3
-1/4		3.6	73.0
c		3.5	73.1
1/4		3.7	72.9

14' cto
13' 1/4s

7664

cb		3.1	73.2
w		3.2	73.4
	+7		
w		3.6	73.0
cb		3.6	73.0
1/4		3.8	72.8
c		3.6	73.0
1/4		3.5	73.1
cb		3.4	73.2
E		3.4	73.2
	N 1/4		
E		3.3	73.3
cb		3.3	73.3
1/4		3.5	73.1
c	M 27 1657	3.5	73.1
1/4		3.8	72.8
cb		4.0	72.6
w		4.3	72.3
	E		
w		4.3	72.3

7664

38+4

cb		4.0	72.6
1/4		3.7	72.9
c		3.5	73.1
1/4		3.3	73.3
cb		3.2	73.4
E		3.3	73.3
	S 1/4		
E		2.7	73.9
cb		2.6	74.0
1/4		3.1	73.5
c		3.2	73.2
1/4		3.5	73.2
cb		3.5	73.1
w		3.8	72.8
	Doston one 13' Mont 32th	3.18	73.46
	S cb		
w		3.6	73.0
cb		3.3	73.3
1/4		3.1	73.5
c		3.2	73.4

76.64

38+h

1/4 3.0 736

+5 2.5 741

ob 2.8 738

E 3.0 736

SL of Boston

E 3.0 736

ob 3.1 735

+6 2.7 739

1/4 3.1 735

C 3.1 735

1/4 3.0 736

ob 3.1 735

W 3.0 736

T.P. 002 63.79 12.87 63.77

T.P. 0.78 51.68 12.89 50.90

T.P. 2.47 42.60 11.55 40.13

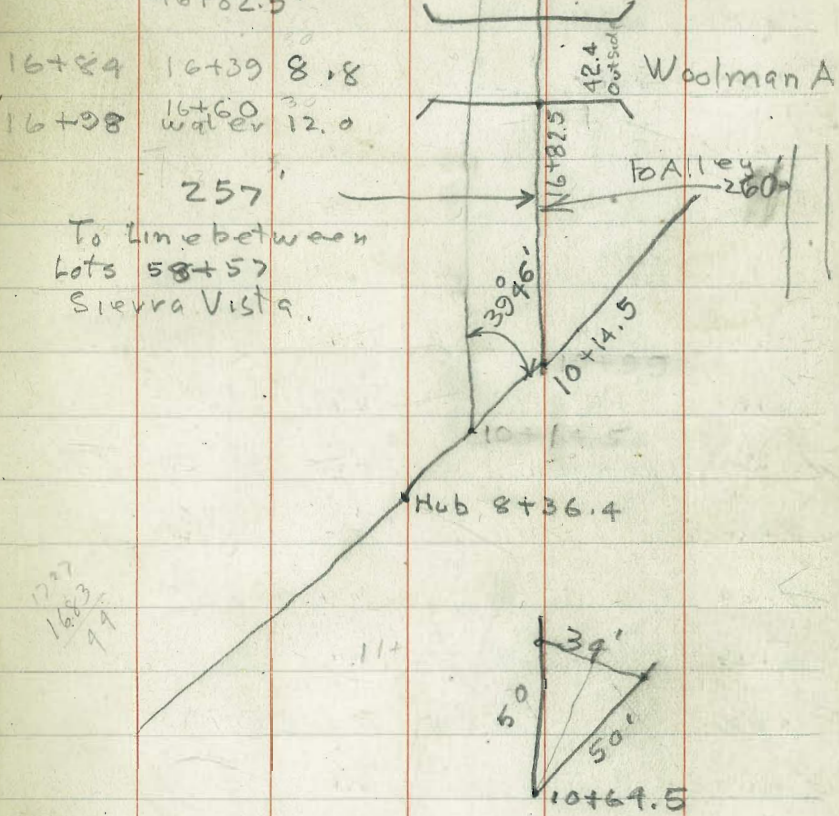
Check to BM 15 Mon Z 4354 6.56 36.04 36.16

Line in Caruthers Add.

0+00 Main Line		103.8 N. of 40 th St.	
Ground at Hub.	B.M. H.I.	Ground	H.I.
8+36.4	31.0	31.0	31.6
9+12	28.5	28.5	31.1
9+17	26.6	26.6	31.0
9+50	26.8	26.8	31.6
10+00	27.1	27.1	31.0
10+12	28.6	28.6	31.1
+30	28.9	28.9	31.0
+33	27.9	27.9	31.6
10+50	28.6	28.6	31.0
10+64.5	28.9	28.9	31.0
10+99	28.8	28.8	31.0
10+70.5	29.1	29.1	31.0
10+76.5	30.1	30.1	31.0
11+19.5	29.9	29.9	31.0
11+50	11+00		
12+00	11+50		
12+50	12+00		
13+00	12+50		
13+50	13+00		
1400	13+50		
14+50	14+00		
15+00	14+50		
15+50	15+00		

Between 1400 & 1450 Bank wash out

Station	Ground	H.I.
16+00	15+50	5.8
16+50	16+00	5.8
16+83	Edge of Bank	5.8
17+27	Bridge on S. at E.	5.8



17+27
16+83
14

1682.5
1014.5
668.0

		33.64				46.02		53
6x42			11.7	21.9	River Bottom	13+50	10.0	36.0
+50			5.1	28.54	E. Park River	14+00	9.6	36.42
F.P.	12.65	46.22	0.07	33.57		+50	8.6	37.42
7+00			10.0	36.22		15+00	6.1	39.92
+50			8.4	37.82		15+14	S. line Caruthers Resub BIK 58'	
8+00			8.1	38.12		+50	5.0	41.02
+50			6.7	39.52		16+00	4.8	41.22
9+00			4.6	41.62		+50	4.1	41.9
+40			1.1	45.12		17+00	4.1	41.92
T.P.	2.24	48.24	0.20	46.02		+50	4.9	41.12
Q.N. + S 20' Lane						18+00	6.5	39.52
9+55 ⁰⁰	2 90° L		0.1	48.26		+50	10.8	35.22
10+00			4.0	44.26		19+00	12.3	33.7
+50			7.9	40.36		+50	12.6	33.4
11+00			9.5	38.76		20+00	12.4	33.62
+50			10.4	37.86		T.P.	8.06	41.78
12+00			10.7	37.56		+50	7.8	33.98
+50			11.5	36.76		21+00	7.5	34.28
13+00			12.0	36.26		+50	7.0	34.78
T.P.	9.76	46.02	12.00	36.26		22+00	6.3	35.48

22+50 41.78 5.8 35.98

22+85 + m - 1/2 R ST 4.8 36.98

Set BM Spk 4.66 37.12 5W 20' Lane + R, ST

T.P. 4.97 44.14 4.61 37.17

ch Ken BM B.P.N.E. cor R St Bridge 1.73 40.05

Sewer Levels
 Alley Bet C + Bdw. from N.H. in 35th St
 To E. line 32nd St

7/20/26

109.21

102.1

0+00 MH
 Alley Bet C + Bdw
 14 38th St

RE 41.31 Page 60

61.71
 11.10
 61.31
 3.8

50.21
 New line
 57.51
 ground

5+00
 +50
 +95

7.1
 1.6
 0.7

101.10
 107.61
 108.51

T.P.

12.43

71.34

2.80

58.51

6+00

1.0

108.21

0+50

12.6

58.74

+50

1.7

107.51

1+00

12.0

59.34

34th St
 +60

0.5

108.71

+50

10.6

60.74

T.P.

9.49

118.32

0.34

104.83

+65

7.9

63.44

7+00

4.7

111.62

T.P.

12.50

83.60

0.24

71.10

+50

6.5

111.82

2+00

8.2

75.4

8+00

5.6

112.72

+11

2.9

80.7

+50

6.1

112.22

+19

1.7

81.9

9+00

5.2

113.12

T.P.

13.22

96.10

0.72

82.88

+50

5.1

113.22

+23

11.2

84.9

10+00

3.8

114.52

+50

8.2

87.9

+45

5.7

112.62

3+00

6.2

89.9

+75

5.6

112.72

+50

2.3

93.8

11+00

3.9

114.42

T.P.

13.17

109.21

0.06

96.04

+40

4.9

113.42

4+00

11.2

98.01

+60

6.7

111.62

+50

8.7

100.51

12+00

7.8

110.52

+75

8.7

100.51

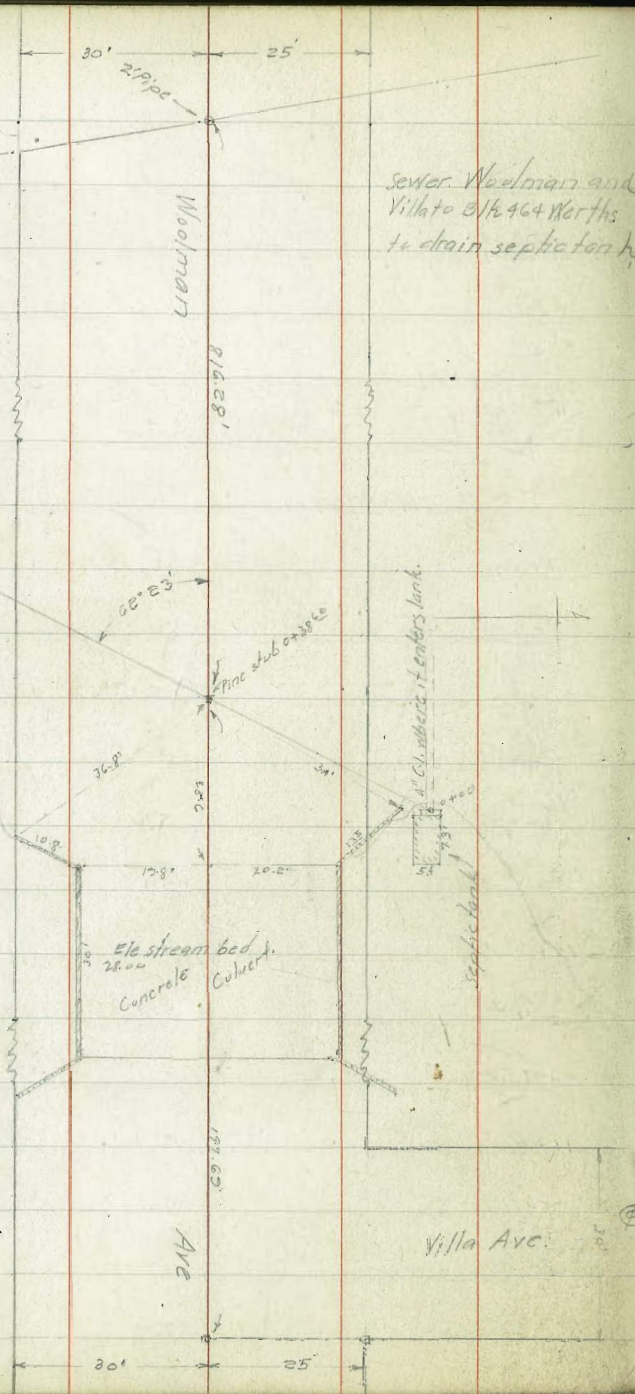
+50 = 40'E + 33rd St

8.3

110.02

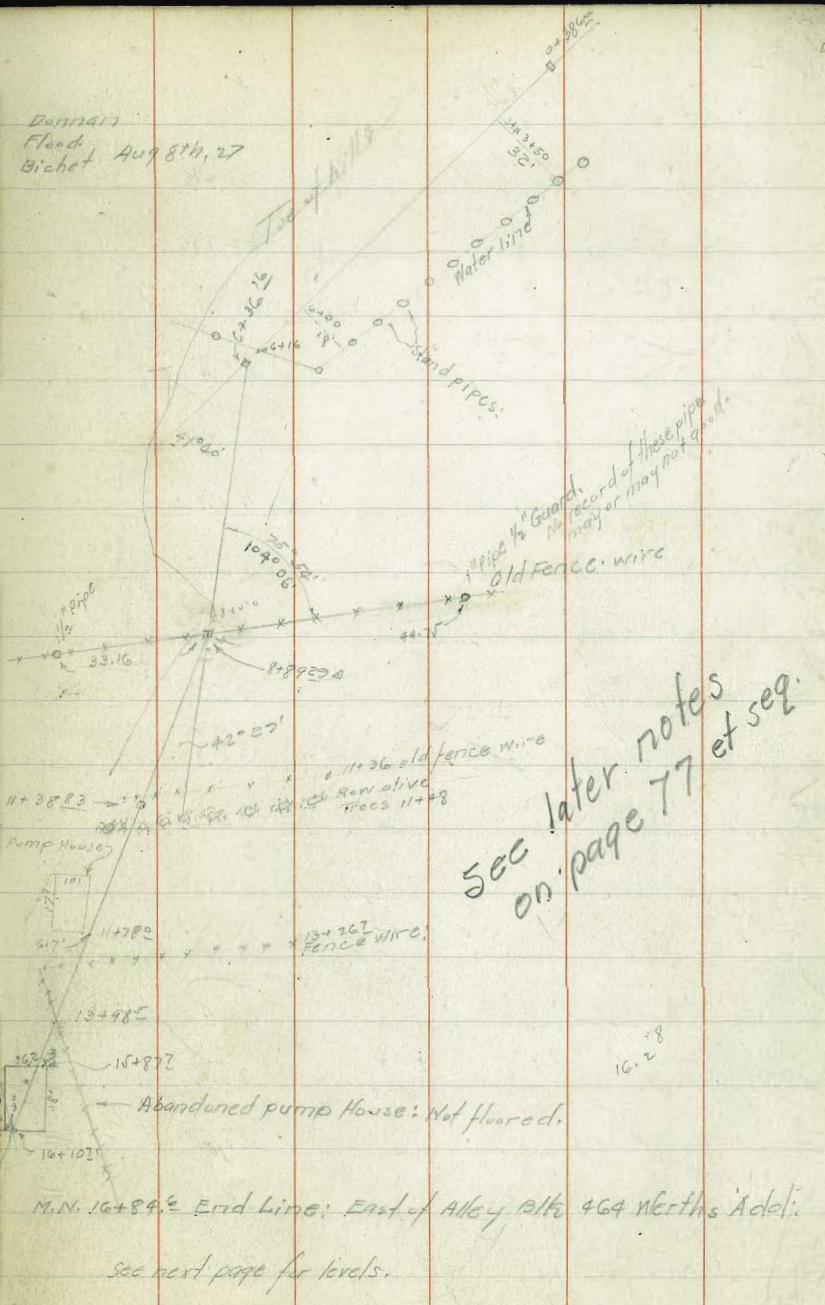
8.32
 8.34
 109.78
 3.60
 13.88
 7.02
 106.56
 101.55
 34 Bdw

Original City Edg



Sewer Woolman and Villa to 316 464 Werths to drain septic tank

Dannan Flood Aug 8th, 27 Bichet



see later notes on page 77 et seq.

Abandoned pump House: Not floored.

M.N. 16+84 1/2 End Line: East of Alley 316 464 Werths Adeli.

see next page for levels.

For Construction notes see page 65 also see page 78

	+	π	-	E/e
	4.56	46.79		42.43 D.P. Culvert
on top of 4" C.I. Pipe outlet at East edge of tank			13.73	33.26
On top of concrete septic tank			8.88	38.11
On top of 4" C.I. Intake pipe W.L. of overhang on tank = Bottom embankment:			14.02	32.97
0+12 Top of Road fill			5.6	41.4
0+38° on Hub in Roadway			4.75	42.24
0+68 Top of Roadway embankment			4.9	42.1
0+83 Top of slope "			10.5	36.5
23 ft of 0+83 is in stream bed not in deepest place: see sketch.			16.0	31.0
14.00			11.3	35.7
14.50			11.7	35.3
24.00			11.8	35.2
24.50			11.7	35.3
# 3 6.15	41.64	11.50	35.48	On stand pipe
37.00			6.2	35.4
37.50			6.1	35.5
44.00			5.9	35.7
44.50			5.9	35.7
52.00			5.4	36.2
57.00			5.5	36.1

Changed see page 65

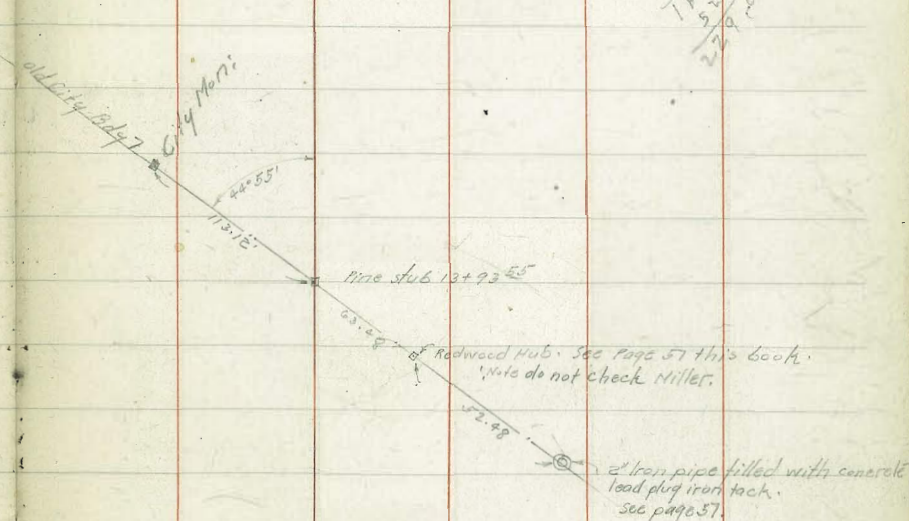
	+	π	-	E/e
64.00		41.64		5.9
64.36 ^N Alt	41° 40' = 573.2	See page 65	6.65	34.99
67.50			6.6	35.0
74.00			7.6	34.0
74.50			8.3	33.3
84.00			8.7	32.9
84.50			9.3	32.3
# 8+89.29 Alt	42° 25' 2.34	36.14	7.84	33.80
94.50			3.4	32.7
104.00			3.8	32.3
104.50			4.6	31.5
114.00			5.2	30.9
114.50			5.2	30.9
124.00			5.5	30.6
124.50			5.4	30.7
134.00			6.3	29.8
134.50			6.9	29.3
144.00			6.8	29.3
#	5.89	34.91	7.12	29.02
144.50			6.8	29.1

Changed

	+	π	-	Elev
		34.91		
15+00			6.4	28.5
15+50			6.5	28.4
15+88			5.2	29.7
15+95			12.3	22.6
old well - man now filling it.				
16+11			12.3	22.6
16+25			6.1	28.8
16+50			6.8	28.1
16+84 ⁶⁰ - End line Elev on Centre M.H. Cover			6.68	28.23
Flow line 22.H.			14.73	20.18
#	16+57	46.10 ✓	0.38	34.53 Rock
#	10+94	55.07 ✓	1.97	44.13 Paving
#	11+71	66.49 ✓	0.29	54.78 Side walk
#			19.3	65.40 Hyd and 40th and National 65.40

National and 41st NW Cor Hyd 37.76

Proposed sewer line 7



Existing M.H. 16+84⁶⁰ End line:

~~177.32
57.80
229.12~~

~~113.12
62.48
172.60
252.48
229.04~~

	+	π	-	Elev	Grade	Cut:
Cutstakes Sierra Vista outfall See page 63						
Note 0+00 = San Miguel and 2 ¹ / ₂ South of the N.L. of Woolman.	9.78	47.21		DM 42.43 Sep 12-27	Dunnan Flood Bichet.	
0+00 = M.H.N.#			3.86	43.35	32.00	11.35
0+50			9.60	37.71	31.63	6.08
1+00			9.44	37.77	31.27	6.50
1+50			9.93	37.78	30.90	6.88
2+00			9.76	37.95	30.54	6.91
2+50			10.08	37.13	30.17	6.96
3+00 #	3.10	40.54	10.17	37.04	29.81	7.23
3+20 = M.H.N.#			3.10	37.04	29.66	7.38
3+50			4.20	36.34	29.44	6.90
4+00			3.92	36.62	29.08	7.54
4+50			3.77	36.77	28.71	8.06
5+00			4.05	36.49	28.35	8.14
5+50			4.70	35.84	27.98	7.86
5+73.32 = M.H.N.# 3# = 6+30.00 Page 63			5.78	34.76	27.81	6.95
6+00			5.93	34.61	27.67	6.99
6+50			6.55	33.99	27.25	6.74
7+00			7.42	33.12	26.89	6.23
7+50			7.84	32.70	26.52	6.18
8+00			6.90	34.14	26.16	7.98

See also page 78

8+02.17 = $\frac{1}{2}$ Alley on South

5+99.81 = E line 46th on North

5+89.56 = E line 46th on South

4+64.97 = $\frac{1}{2}$ Alley on North

4+57.13 = $\frac{1}{2}$ Alley on South

0+00 = 8.5' East of East lb.

West of 0

15' $\frac{1}{2}$

← 8+02.17

← $\frac{1}{2}$ Proposed Sewer

20' 10' 10' 5' 15'

46th

80'

102' ST.

46th ST.

5+99.81

← 5+89.56

15' $\frac{1}{2}$

4+64.97

4+57.13

20' $\frac{1}{2}$

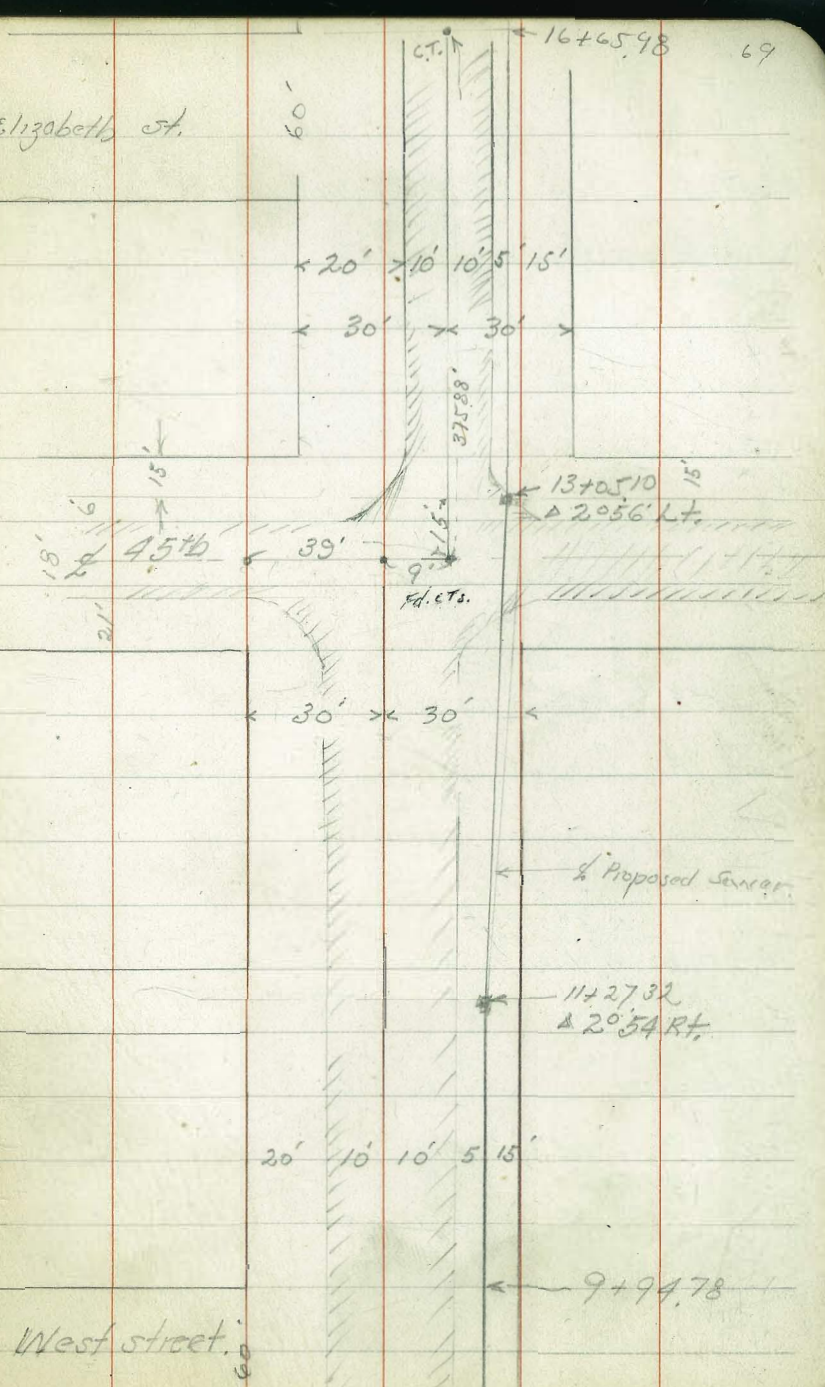
16+65.98 = W. Elizabeth St. on South.

13+05.10 = Δ 2°56' Lt. = 6' West of strip paving on South.

11+27.32 = Δ 2°54' Rt. = S. Alley on South.

9+94.78 = W. West St. on South.

Elizabeth St.



32+16.50 = Rt. A to Existing M.H.

31+38.9 = West edge Wing Wall

31+36.9 = East edge Wing Wall

31+03.5 = West edge Wing Wall

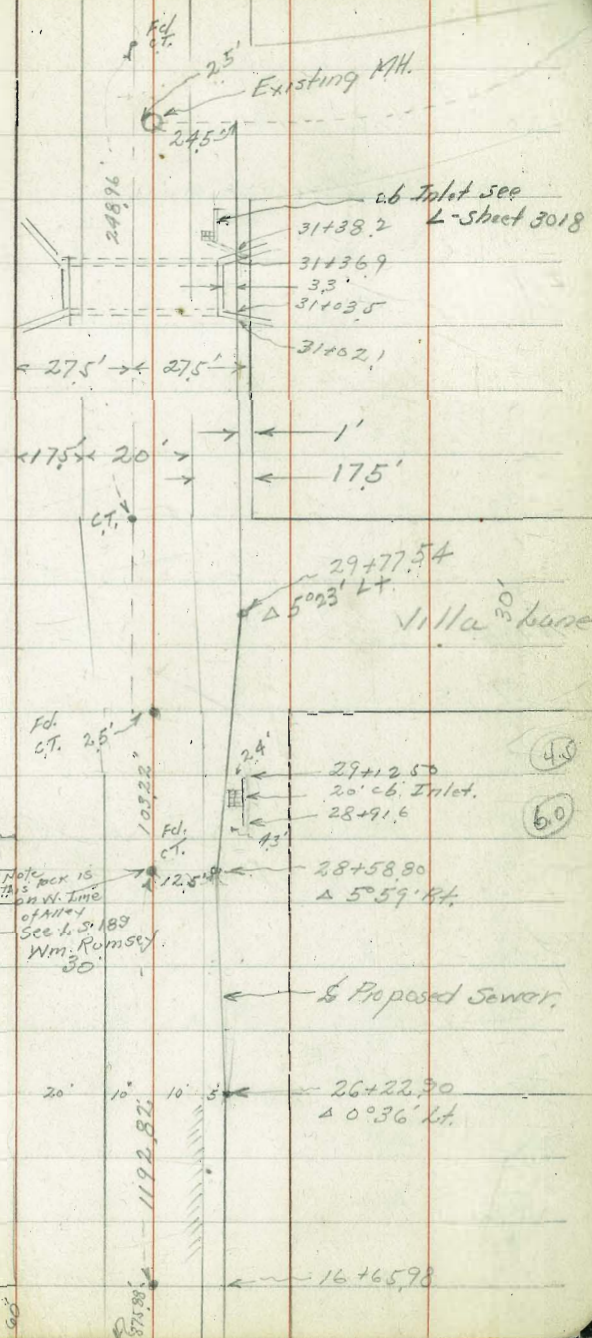
31+02.1 = East edge Wing Wall

$\Delta 5^{\circ}23' Lt.$
29+77.54 = Δ Villa Laine

$\Delta 5^{\circ}59' Rt.$
28+58.80 = Δ Alley on South. See F.B. 1211 - Pages 5-11-12
Also Grade 130 - " 57

26+22.90 - $\Delta 0^{\circ}36' Lt.$

16+65.98 = West line Elizabeth on South.



Elizabeth.

Walker diss Isbell - 1940	LEVELS FOR SEWER		47th St. And Ocean View Blvd.	
SWBP Ocean View +47th	Location Page 67-70			
	3.86	120.35	116.49	Ord. Book 130-58
0+00 = 375' N.Y.C.	Ocean View	10.63	109.72	1' Rt. on Walk
7' Lt. of 0+00		11.8	108.6	
50' Lt	"	11.0	109.4	1' Rt.
0+50		10.15	110.20	on Walk
7' Lt. of 0+50		12.5	107.9	
50' Lt	"	11.6	108.8	
0+71.5	4.5' Lt. on ^{Top} Culvert 18'	12.05	108.30	
1+00		9.50	110.85	1' Rt. on Walk
7' Lt. of 1+00		11.6	108.8	
50' " " "		11.2	109.2	
1+50		8.68	111.67	
40' Lt. of 1+50		8.8	111.6	
2+00		7.75	112.60	1' Rt. on Walk
40' Lt		7.6	112.8	
2+50		6.83	113.52	1' Rt. " "
3+00		5.90	114.45	" " "
+50		5.06	115.29	" " "
3+75 on Walk		4.60	115.75	
+85 " top lb.		4.91	115.44	

120.35		71	
3+85 on Grutter	Paving	5.20	115.15
+90 = 48957' Rt		5.15	115.20
4+19 = 2' Paving		4.76	115.59
+49 = W.L. 47th = 0+00		5.11	115.24
0+19.2		5.92	114.43
0+50		8.4	112.0
5' Lt. on Paving		7.43	112.92
1+00		10.8	109.6
5' Lt. " "		10.09	109.26
1+32.35 = 2' Alley on South		12.5	107.9
5' Lt.		11.86	108.49
50' "		11.7	108.7
100' Lt		8.3	112.2
150' Lt		5.7	114.7
250' " = lowest point in Alley		10.7	109.7
1+35.06 = 2' Alley on North		12.7	107.7
5' Lt. on Pav.		11.94	108.41
90' Rt.		13.0	107.4
2.25' Rt = lowest point		21.0	99.4 in Alley
T.P. 0.18	107.52	13.01	107.34

	\bar{x} 107.52		
1+50	0.6	106.9	
2+00	3.7	103.8	
+64.7 = E.L. East of on South	6.3	101.2	
5' Lt. on paving	6.00	101.52	
3+00.12 = $\frac{1}{2}$ East of on N	7.4	100.1	
230' Rt. = North	12.4	95.1	Approx. low point
200' South	4.9	102.6	
3+50	8.4	99.1	
4+00	9.4	98.1	
5' Lt. on paving	9.09	98.43	
4+57.13 = $\frac{1}{2}$ Alley on South	10.9	96.6	
5' South on Paving	10.20	97.32	
50' "	8.3	99.2	
225' "	9.0	98.5	
275' " = lowest point	9.7	97.8	
4+64.97 = $\frac{1}{2}$ Alley on N	11.0	96.5	
5' South on paving	10.35	97.17	
115' N in $\frac{1}{2}$ Alley	9.7	97.8	
215' " " " "	14.0	93.5	on Rim of Canyon
250 = Approx. bottom Canyon	29.0	78.5	Approx. Bot.

	\bar{x} 107.52			
TP 3.42 98.13	12.81	94.71		on C.T. & Paving. 5+99.31
5+00	2.3	95.8		
5' South on Paving	1.60	96.53		
5+50	2.9	95.2		
5' South " "	3.8	94.3		
5+89.56 = E.L. 46th on South	3.5	94.6		
5' South on Paving	3.30	94.83		
6+69.56 = W.L. 46th on South	4.7	93.4		
5' South on Paving	4.35	93.78		
7+00	4.7	93.4		
5' South on Paving	4.60	93.53		
7+50	4.9	93.2		
8+02.17	5.1	93.0		
5' South on Paving	5.00	93.13		
50' "	2.7	95.4		
250' "	4.3	93.8		
400' " lowest point (approx.)	6.0	92.1		
70' North	5.9	92.2		Rim Canyon
120' "	26.0	72.1		Bottom Canyon
220' "	5.9	92.2		Base Canyon

98.13			98.13			73		
8+50	5.5	92.6	7.9	0.56	12.66	85.47	chk. B.M. CT.	
9+00	5.8	92.3		0.56	86.00	85.44	45th + Bacon	
5' South on Paving	5.38	92.75	13+05.10 = Δ	2056' lot	on Paving	1.30	Gov. Book 130-57	
9+34.78 = Lake West st. 0	6.1	92.0	75' N		3.3	82.7	Above B.M.	
5' South on Paving	5.48	92.65	175' North		8.3	77.7	Ed. 8-30-57	
9+94.78 = W. West on South	6.4	91.7	150' South		+3.0	89.0		
5' South on Paving	5.92	92.21	13+50		3.1	82.9		
10+50	7.1	91.0	14+00		5.6	80.4		
5' South " "	6.81	91.32	5' South on Paving		5.21	80.79		
Δ 2054' lot			14+50		7.8	78.2		
11+27.32 = E. Alley on South	8.8	89.3	+70.10 = E. Easement on South		8.7	77.3		
5' South on Paving	8.15	89.98	5' South		8.38	77.62		
50' " in Alley	4.6	93.5	150' "		7.1	78.9		
250' " " "	9.2	88.9	15+50		12.3	73.7		
325' " " "	10.0	88.1	7.9	1.29	74.40	12.89	73.11	
400' " " "	10.0	88.1	16+35.98 = E. Elizabeth		4.6	69.8		
20' North	6.6	91.5	5' South		4.24	70.16		
160' " Rim Canyon	9.9	88.2	100' "		4.0	70.4		
12+00	11.2	86.9	200' "		3.2	71.2		
8.6' South on Paving	10.53	87.60	16+65.98 = W.L. Elizabeth		6.0	68.4		
12+60.10 E.L. 45th	12.8	85.3	5' South on Paving		5.59	68.81		
11.6' South on Paving	12.53	85.60						

7440				50.06				74
17+00		82	66.2	20+50		5.0	45.1	
5' South on Paving		7.80	66.60	21+19.6 = ^{18"} 1/2 Chert. No 1		7.5	42.6	L-sheet 3019
17+50		12.2	67.2	5' South.		7.67	42.39	
T.P. 0.55	62.36	12.59	61.81	33' " on Floor line		11.92	38.14	
17+99.09 = 6.6' Easement on South		^{2.3} 60.1		3.4' N " " "		13.1	37.0	
5' South on Paving		2.03	60.33	21+50		8.0	42.1	
45' " = S.L.		+2.3	64.7	5.7 N on Wall		7.2	42.9	
12.5' "		+3.3	65.7	8' N		13.3	36.8	creek bed
18+50		5.4	57.0	22+00		8.6	41.5	
30' N		5.6	56.8	5' South on Paving		8.26	41.80	
75' "		11.0	51.4	5.8 N on Wall		7.7	42.4	
75' + 20' East of house		8.8	53.6	8' "		14.0	36.1	creek bed
19+00		8.7	53.7	22+50		9.0	41.1	
5' South on Paving		8.50	53.86	23+00		9.5	40.6	
19+50		11.7	50.7	5' South on Paving		9.02	41.04	
T.P. 0.48	50.06	12.78	49.58	23+50		9.8	40.3	
20+00		2.6	47.5	24+00		10.00	40.06	
5' South on Pav		2.49	47.57	5' South on Paving		9.82	40.24	
10' N		2.3	47.8	24+17		10.3	39.8	
20.5' N on Ret. Wall		5.7	44.4	5.7 North = A in Wall		9.4	40.7	
" " at Bottom Wall		9.4	40.7	8' " in creek bed.		14.1	36.0	

West side
House 17+79
Ground.

	50.06			
5' South on Pav.	9.92	40.14		
T.P. 2.41	42.28	10.19	37.87	
24+50	2.7	39.6		
25+00	3.2	39.1		
5' South on Paving	2.72	39.54		
25+50	3.6	38.7		
26+22.90 = Δ 0°36' Lt.	4.4	37.9		
5' South on Paving	3.65	38.63		
26+50	4.5	37.8		
27+00	4.8	37.5		
4.2' Lt. on Paving	4.27	38.01		
27+50	5.0	37.3		
28+00	5.1	37.2		
3.2' Lt. " "	5.01	37.27		
28+58.80 = Δ 5°59' Rt.	5.60	36.68		
2.5' Lt. on Paving	5.37	36.91		
29+02.5	6.0	36.3		
14' Rt. on Flow line 18" pipe	10.47	31.81		
6.7' Lt. on Paving	5.63	36.65		
34.7' " on Flow line 18" pipe	10.78	31.50		

	42.28			75
29+77.4 = Δ 5°23' Lt.	4.48	37.80		on slab.
14.5' Lt. on Paving	4.96	37.32		
30+00	4.1	38.2		
16.3' Lt. on Paving	4.47	37.81		
30+50	2.7	39.6		
31+02.1 = East edge Wing Wall	1.7	40.6		on ground
" " " " " "	0.00	41.3		on top Wall
31+05 in Creek bed	14.5	17.8		
16.5' Lt. on pav.	2.17	40.11		
T.P. 5.28	45.86	1.70	40.58	100' E Sun Mt. Jct.
Chk. B.P. in Hd Wall	3.44	42.42		Grid 8-30-54
Bottom Concrete slab Ret. Wall		42.43		Note B.M.
31+30.5 = Creek bed.	16.5	19.4		
" " on slab wall	12.7	33.2		
3' Lt. on Wall	14.2	31.7		
31+35.4 toe Wing Wall	12.44	33.42		
31+36.9 on top Wing Wall	3.49	42.37		1/2 sheet 3018
15' Rt. on Flow 18" cutvert	13.79	32.07		outlet
31+38.2 on ground	4.0	41.9		at Wall
31+58	3.6	42.3		
9.7' Lt. on Flow 18" pipe	11.79	34.07		inlet

4586

32 + 16.6 at Rts to East MH 3.4 42.5

16.5 Lt. on Pavng. 3.03 42.83

24.0' " Rim MH 2.89 42.97

10.89

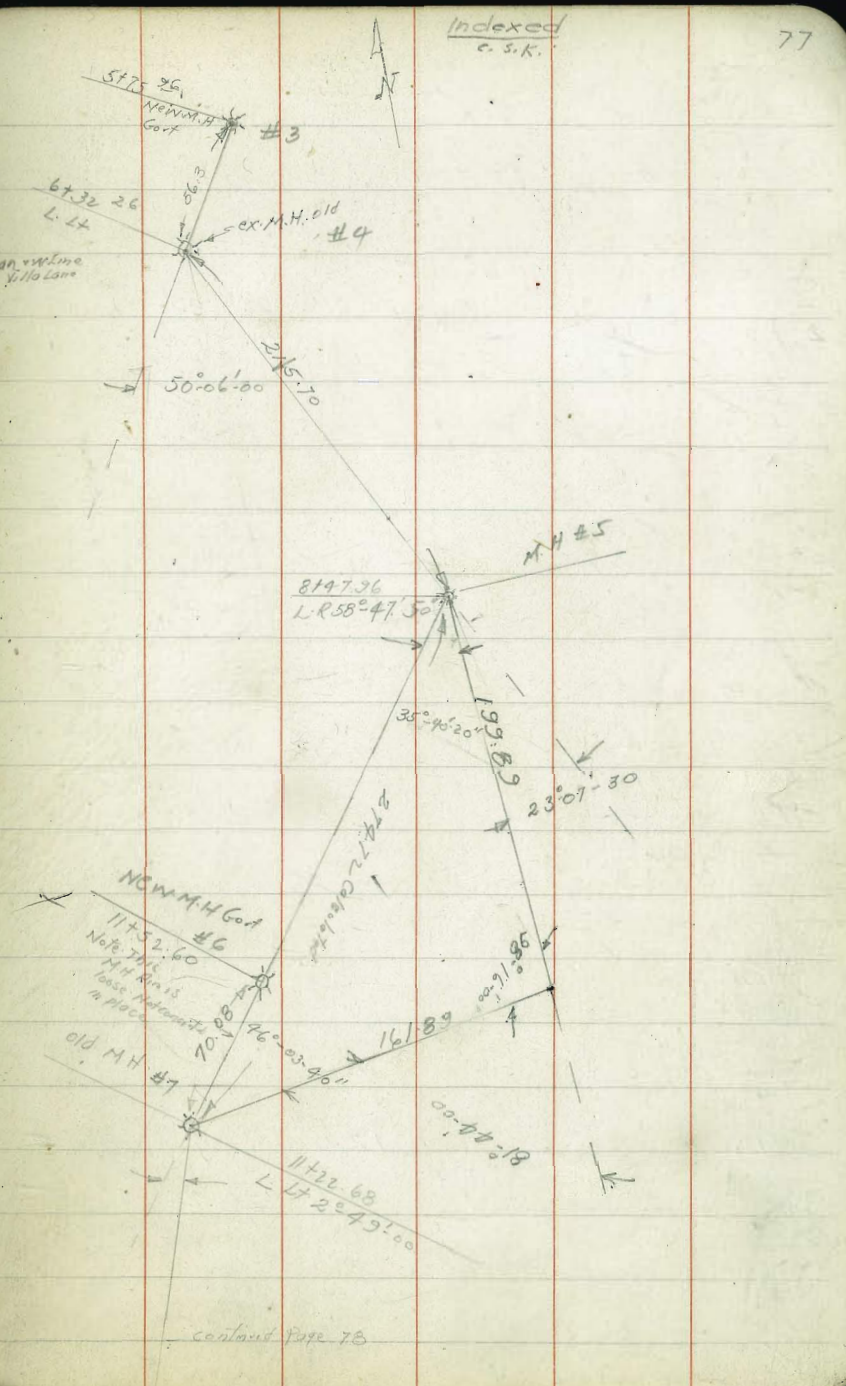
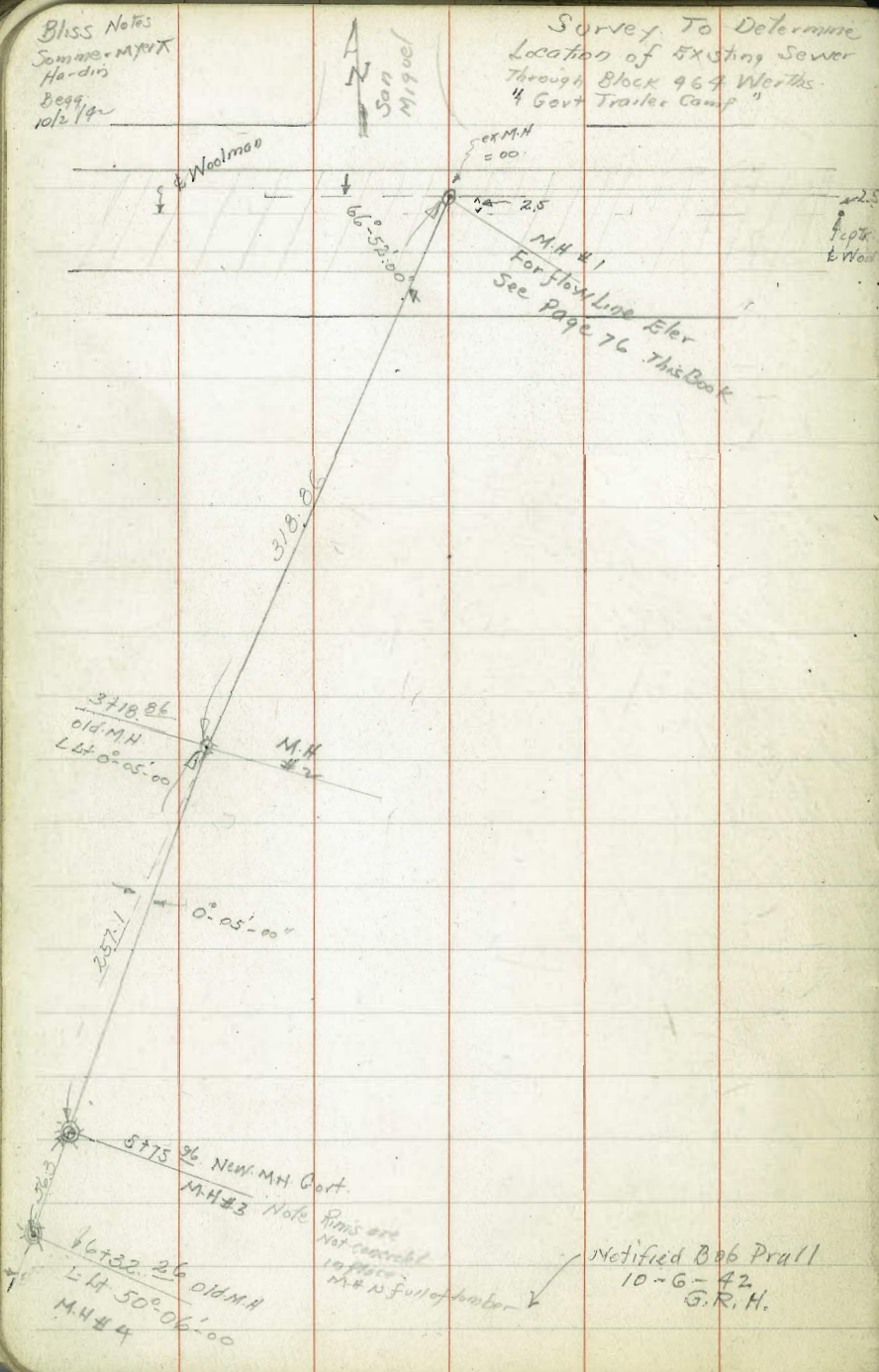
" " Flow " 13.72 32.14

76

Bliss Notes
 Sommer-Meyer
 Ha-dris
 Begg
 10/2/19

Survey To Determine
 Location of Existing Sewer
 Through Block 964 Werthe
 "Govt Trailer Camp"

Indexed
 C.S.K.

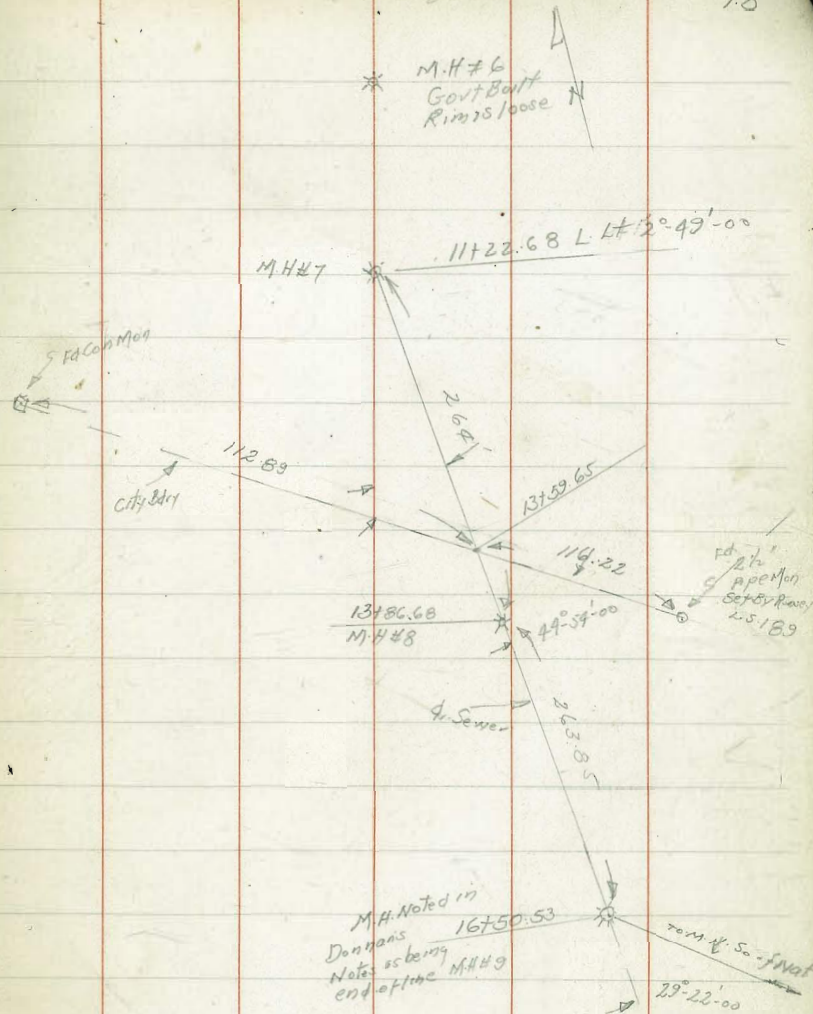


Notified Bob Prall
 10-6-42
 G.R.H.

continued page 78

Levels to Determine Elev of flow Lines of
M.H.s in Govt Trailer Camp

BM	4.96	47.38		42.42	S.P. in North Headwall of Street 100' East of San Miguel
TP M.H. # 2	2.75	39.94	10.19	37.19	
	Flow Line		10.11	29.83	
	Rim		3.56	36.38	
#3 Govt M.H.	Flow		11.88	28.06	Note: This M.H. Rim Has not been corrected in M.H. is full of lumber
	Rim		4.65	35.29	
#4 old	Flow		12.34	27.60	
	Rim	4.89	39.53	5.30	34.64
TP	4.83	37.41	6.95	32.58	
#5 M.H. Flow			11.19	26.22	
	Rim		6.08	31.33	
	Flow		12.90	24.51	
M.H. #6			6.25	31.16	
	Rim				
M.H. #7	2.32	34.35	5.18	32.23	
	Flow		10.26	24.29	
#8 M.H. Flow Line			12.15	22.40	
	Rim	2.92	33.16	4.31	30.24
M.H. #9					
	9 Rim	8.29	39.10	2.35	30.81
	Flow Line			19.01	20.09
	BP			38.4	35.26
BM N.W.					35.15
Elev. Not					0.11 diff



	+	H.I.	-	EI
Bench				
T.P.	100	110.0		100.0
0			9.0	
+30			7.0	
100			0.0	110.0
T.P.	11.0	120.0	1.0	109.0
+50			8.0	120
200			4.0	119.0
+60			1.9	119.0

A		E			B				
1030	1037	5.2	4.2	4.1	4.1	3.9	3.2	2.3	2.0
7.0	6.3	20	15	10	10	10	20	23	30
40	30								

79

8 1/2"
3 4"

270
14
456

256 of sheet piling west pt. loma Blvd at pump sta.

B.M. N.E. base plg Abbotts Newport 6.509

4.90 11.40

T.P. 0.84 2.68 9.56 1.84

2.68

54
29
74

182 to nail

9.7 to last cent

62° 23'

124 46

0000

177.09

38+60° = st.

68° 23'

1+367° = Δ L

41° 40'

8+892°

from outside of wall to center of well 8' 9"
... inside of well elev - 1.00 to 16" C.I. 4' 1/2"

Including May 7th

49617

602

Cement pipe
14 FT.

6" C.I. 161 M.H.

5715

8"

1140

10"

2500

14"

380

12"

59964 Total

12) 812 (67

72

92

84

80

12) 40 (33

36

6+3616
6384

1.57

50

1.27

42.4
14.4
28.0

2.07

~~42.4
14.4
28.0~~

12.00
2.57
9.43

657.8
155.7
813.5

166598
13371

179809

1.57

50

2.07

1.57

12.00

2.57

9.43

12.00

2.57

8.93

4.53 N.W. Brighton Bacon 135
 6.76 N.E. Care May 142
 8.00 " " Saratoga 148
 8.75 N.W. Santa Monica 157
 11.045 N.E. New York 160
 12.99 N.W. Niagara 170
 17.08 " " Narragansett 177
 24.04 " " Del Monte 185
 3.99 " " Santa Cruz 174
 5.51 N.E. Colorado 177

1450
 33734
 1290
 134337
 151 N.H.
 17 F.T.
 Including Oct 17th
 732
 1.72
 9.10
 1.51
 7.57

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
1	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
	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.