Sand Tests.

LEVEL BOOK.

No. 410

F.B. 577

MICROFILMED
DEC 14 1964

ENGINEERING DEPARTMENT,
CITY OF EAST SAN DIEGO.
CALIFORNIA.

ENGINEERING DEPARTMENT.
CITY OF EAST SAN DIEGO.
CALIFORNIA.

Indexed to date Feb. 6, 1918

Lot 1

Daley St. Sidewalk - Cent
Golden Gate Cement
Sample Rec'd May 27-1915
Made up " " -1915

Neat
27% 1 day 241-228 Gr. 234
Water 7 "
28

1:3
9.5% 7 days
Water 28 "

Initial Set 1:45
Final " 3:25

Mission Valley Sand 7 day
1:3 28 "

Index

Tests - Mission Valley Sand 18
19
20
24
29
30

Lakeside Sand 20
29

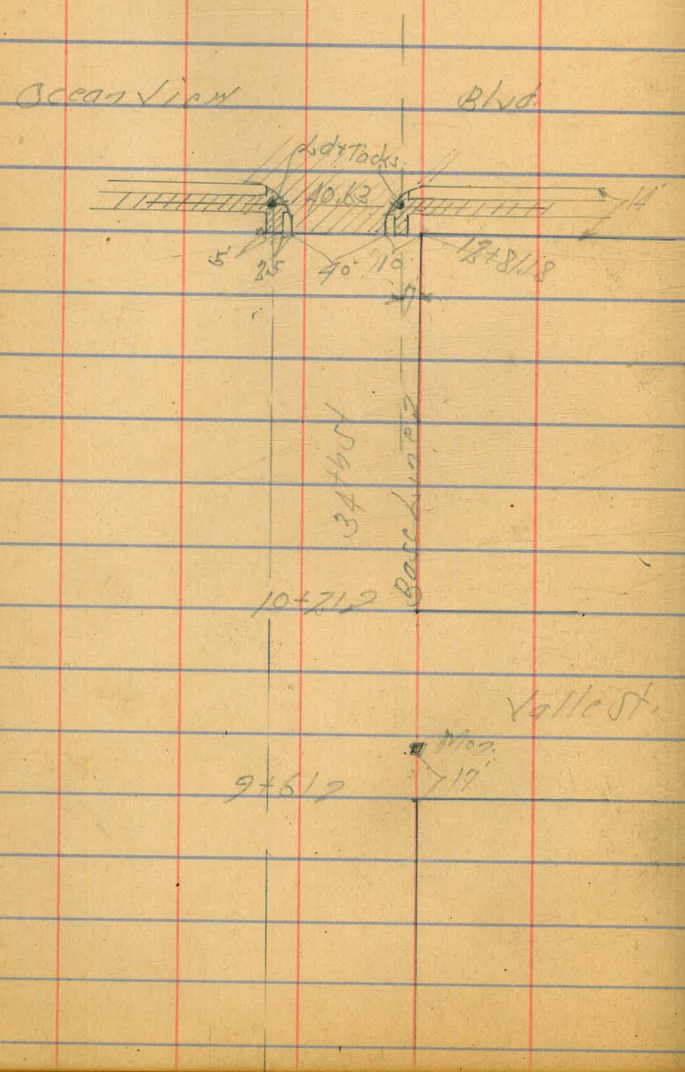
Tia Juana River Sand 25

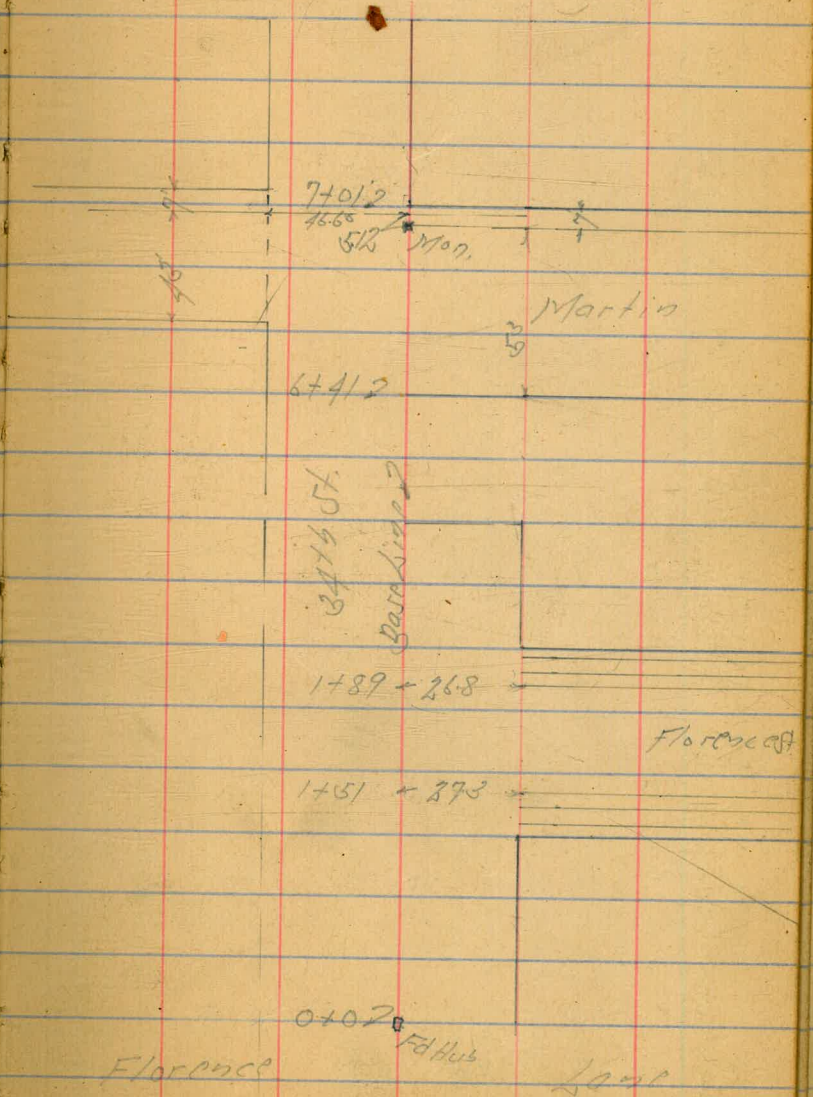
Beach Sand 26

Cross Section 34th St.
Florence Lane to Ocean View Blvd.

INDEXED
EPB

Oct. 14-40
Sisson
Northern
W. Moore





Cross Section B-1 & S-1
Florence Lane to Ocean View Blvd.

Notes Red. 10-16-40 CBH.
Plotted on New Profile
10/18-40

1+07 - NL Wire Fence & SL Concrete Wall 27.5 Rt

0+75

0+50

0+25

0+06 - SL Wire Fence 28 Rt

0+0 - NL Florence Lane

TP	11.29	21.75	5.20	10.46
BM	4.71	15.76		11.05

SE Top Hyd Warlight Gregory

2

Lt. SL — B — Rt. E

7.3	8.1	10.8	11.5	12.0	12.8	17.4	19.65
4.4	13.6	10.9	10.2	9.7	8.9	4.3	2.10
16.	22	13	✓	16	17	27.5	27.5 Top Concrete
	✓					✓	

7.4	9.0	10.8	11.2	12.0	13.0	18.2	19.6
14.3	12.8	10.9	10.5	9.7	8.7	3.5	2.1
15.	25	12.	✓	13.	17.	27.	30.
	✓					✓	

8.0	8.4	11.2	12.1	14.0	18.8	19.8
13.8	13.4	10.6	9.7	7.8	3.0	2.0
45.	30.	14.	✓	18.	27.	30.
	✓				✓	

8.4	10.5	13.8	14.3	16.8	20.2	20.8
13.4	11.3	8.0	7.5	5.0	1.6	1.0
40	23.	12.	✓	17.	27.	30.
	✓				✓	

11.5	14.7	17.0	19.7	19.6	21.8	
10.2	7.1	4.8	4.5	2.3	0.0	
45.	30.	20.	on Hub	15.	28.	
	✓		✓		✓	

21.75

	Lt			B		Rt	
2+50	8.1 13.7 50	✓	11.0 10.8 23	11.9 9.9 ✓	13.7 8.1 16	15.7 6.1 24 ✓	19.4 2.4 32
2+04 = Nly Conc Wall 27.1 Rt of B.L. ✓							18.97 2.78 27.1 = Top Conc Wall
2+0 = S+Wly Conc Wall 27.1 Rt of B.L. ✓	8.4 13.4 45	10.2 11.6 31 ✓	11.9 9.9 19	12.7 9.1 ✓	13.8 8.0 17	15.3 6.5 21	15.5 6.3 27.1 ✓	18.97 2.78 27.1 = Top Conc Wall
1+89 = NCb of Florence	8.8 13.0 45	10.2 11.6 33 ✓	11.9 9.9 17	12.8 9.0 ✓	13.3 8.5 17	14.0 7.8 26.8 ✓	15.05 6.70 26.8 = Nly Cb Top
1+51 = SCb of Florence	8.3 13.5 45	10.4 11.4 31 ✓	11.6 10.2 17	12.5 9.3 ✓	13.0 8.8 13	14.2 7.6 27.3 ✓	14.52 7.23 27.3 = Nly Cb Top
1+49 = Power Pole 39.0 Lt of B.L. ✓							
1+40 = Nly Conc Wall 27.3 Rt ✓	8.4 13.4 45	9.5 12.3 33 ✓	11.6 10.2 14	12.2 9.6 ✓	13.4 8.4 17	14.9 6.9 27.3 ✓	17.92 3.83 27.3 = Top Conc Wall

21.75

21.75

34th St.

4+97

4+96 = Nly Lath Fence 45.4 Lt of Base Line ✓

4+50

4+07 = Sly Lath Fence 46 Lt ✓

4+06 = Power Pole 38.3 Lt ✓

4+0

3+58 = Nly Wire Fence 46.5 Lt ✓

3+50

3+29.5 = Nly Board Fence 9.0 Rt ✓

TP 5.09 15.55 11.29 10.46

3+03 = Sly Wire Fence 46.5 Lt ✓

3+0

21.75

Lt B Rt

9.1	10.2	10.7	11.0	10.5	11.1	11.9	12.5	12.4
6.5	5.4	4.9	4.6	5.1	4.5	3.7	3.1	3.2
100	50	45	25	22		10	30	50

9.1	10.9	10.4	10.4	11.8	11.9
6.5	4.7	5.2	5.2	3.8	3.7
50	21	18		3	10

9.4	10.2	11.1	10.6	10.6	11.7	12.1
6.2	5.4	4.5	5.0	5.0	3.9	3.5
50	31	23	20		3	10

9.3	10.3	10.5	12.0
6.3	5.3	5.1	3.6
50	28		10

9.0	10.3	10.7	12.9
6.6	5.3	4.9	2.7
50	27		26

15.55

9.3	10.6	11.2	12.7	16.1
12.5	11.2	10.6	9.1	5.7
50	20		14	30

21.75

		Lt.			℄	Rt.
6+54 = Nly Lath Fence 46.8 Lt.	✓		9.6	10.7	11.4	11.5
6+41 = Sly Martin to East			6.0	4.9	4.2	4.1
6+36 = Nly Picket Fence 1.6 Rt.	✓		50	25		10
6+04 = Sly Lath Fence 46.2 Lt of BL	✓		9.8	10.7	11.2	11.3
6+0			5.8	4.9	4.4	4.3
			50	25		10
5+50		9.1	9.3	11.1	10.8	11.4	11.6
		6.5	6.3	4.5	4.8	4.2	4.0
		50	46	40	20		10
5+29 = Sly Picket Fence 2.3 Rt.	✓						
5+23 = ℄ Garage 2.3 Rt of BL	✓						11.3
							4.3
							2.3 ℄ Garage Dtr Floor
5+10		9.7	9.7	10.2	10.3	11.1	12.2	12.6
		5.9	5.9	5.4	5.3	4.5	3.4	3.0
		100	50	45	25		10	50
5+04 = ℄ open Ditch	✓	7.9	8.6	9.5	10.3	11.1	10.8	10.7
		7.7	7.0	6.1	5.3	4.5	4.8	4.9
		100	50	45	25		10	50

15.55

15.55

34th St.

	Lt						Rt
8+97 = Nly Cobble Wall 47.1 Lt ✓	13.07 5.73 47.1 = Top Cob Wall						
8+70 = Sly Cobble Wall 47' Lt ✓	12.84 5.96 47 = Top Cob Wall						
8+60 = Nly Fence 47.0 Lt ✓	10.6 8.2 50	11.3 7.5 46	12.1 6.7 25	12.8 6.0 4	13.6 5.2	13.8 5.0 10	
8+50							
8+31 = Power Pole 39.2 Lt ✓							
TP 6.33 18.80 3.08 12.47							
8+21 = Nly Wire Fence 1.0 Rt ✓							
8+0		10.8 4.8 50	11.7 3.9 27	12.1 3.5 4	13.4 2.2	13.8 1.8 10	
7+50	9.9 5.7 50	10.6 5.0 46	11.8 3.8 30	11.4 4.2 27	11.4 4.2 3	12.5 3.1	12.9 2.7 10
7+05 = Sly Wire Fence 47.1 Lt of BL ✓							
7+01 = NL Martin to East = Sly Wire Fence 1.2 Rt			10.3 5.3 50	10.6 5.0 7.5	11.5 4.1	12.6 3.0 10	

15.55

15.55

10+00 = Olive Tree 33.5 Lt. ✓

9+91 = Lt Valle

9+85 = Olive Tree 33.5 Lt ✓

9+82 = Power Pole 39.5 Lt - Sly Lath Fence 46.7 Lt ✓ ✓

9+61 = Lt Valle

9+50

9+37 = Olive Tree 33.5 Lt. of Rt ✓

9+35 = Nly Conc Wall 47.0 Lt ✓

9+08 = Sly Conc Wall 47.3 Lt ✓

9+0

18.80

Lt			Rt
14.0	14.8	15.3	15.5
4.8	4.0	3.5	3.3
50	25		10
13.1	13.6	14.4	14.8	15.0
5.7	5.9	4.4	4.0	3.8
50	38	25		10
12.9	13.4	14.4	14.7	15.1
5.9	5.4	4.4	4.1	3.7
50	36	28		10
13.13				
5.67				
47.0 - Top Conc Wall				
13.07				
5.73				
47.3 - Top Conc. Wall				
11.6	13.0	13.4	13.9	14.4
7.7	5.8	5.4	4.9	4.4
50	28	8		10

18.80

34th St.

12+0.

11+80 = N'ly Picket Fence 48.2 Lt. ✓

11+50

11+48 = Olive Tree 33.5 Lt ✓

11+34 = Power Pole 40' Lt = Picket Fence 47.7 Lt ✓

11+32 = Olive Tree 33.5 Lt ✓

11+13 = Olive Tree 33.5 Lt ✓

11+0

10+98 = Olive Tree 33.5 Lt. ✓

10+66 = Olive Tree 33.5 Lt. ✓

10+50

10+32 = Olive Tree 33.5 Lt. ✓

10+21 = NL Valle

10+16 = Olive Tree 33.5 Lt of BL ✓

18.80

Lt | ℄ | Rt 8

13.9	14.8	16.7	16.8	17.6	17.9
4.9	4.0	2.1	2.0	1.2	0.9
60	50	34	5		10

14.7	15.0	16.2	17.1	17.4
4.1	3.8	2.6	1.7	1.4
50	40	25		10

14.73
4.07
47.5 = 25
Co. Valle

15.2	15.9	16.3	16.2
3.6	2.9	2.5	2.6
44	25		10

14.9	15.5	15.6	15.6
3.9	3.3	3.2	3.2
50	25		10

14.50	15.1	15.4
4.30	3.7	3.4
46.7 = 43 Co. Valle	25	

18.80

			5.96	17.26	SE Top Cb Gregory + Ocean View
12+95.18 = S Cb Ocean View					
12+81.18 = S.L. Ocean View Blvd					
12+65					
12+40					
TP	6.39	23.22	1.97	16.83	
		18.80			

Lt Ls Rt 9

18.93	18.17	18.35	18.92	19.22	19.44	20.05
4.39	5.05	4.87	4.30	4.00	3.78	3.17
60 = Cb Top	60 = Gut	50	30	10	0.0 = Gut	0.0 = Cb Top

19.2	18.84	18.40	19.30	19.35	19.97	20.2
4.1	4.38	4.82	3.92	3.87	3.25	3.0
60	50 = Cb Top	50 = Gut	30	10 = Gut	10 = Cb Top	

13.9	16.1	18.2	18.3	18.7	21.6
9.3	7.1	5.0	4.9	4.5	1.6
65	60	45	25		10

13.9	17.1	17.3	17.2	17.9	21.0
9.3	6.1	5.9	6.0	5.3	2.2
65	45	25	5		10

23.22

Cross Section Florence St
34th St to 35th St

raise levels 0.25
to meet Established grade

BM	1.16	51.96	50.80	N.W.B.P. Florence & 35th St
	0+0 = W.L. 35th St			
N Cb Top		1.07	50.89	Low .11
Gutter		1.7	50.3	
1/4		1.4	50.6	
1/2		1.1	50.9	
1/4		1.3	50.7	
Gutter		1.1	50.9	
S Cb		0.62	51.34	Low .14
	0+50			
S Cb		2.92	49.04	Low .12
Gut		3.6	48.4	
1/4		3.5	48.5	
1/2		3.5	48.5	
1/4		3.6	48.4	
Gut		3.8	48.2	
N Cb		3.44	48.52	Low .14

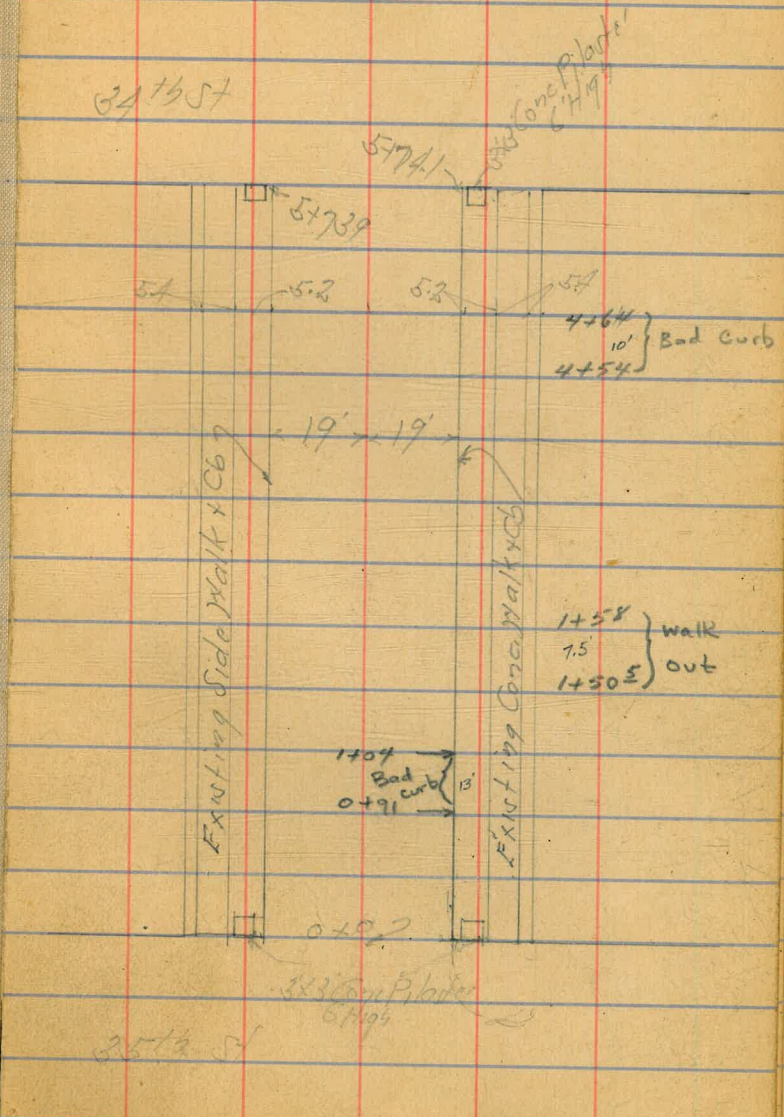
Profile 335 Notes Red 10-16-40 GBH

60' Wide
11 Cbs
9.5 Qts

INDEXED
EFB

Oct 14 - 40:
Sisson
Northern
W Moore

70



5796

1+0

NCb		5.72	46.23
Gut		6.4	45.6
¼		6.1	45.9
½		5.7	46.3
¼		5.8	46.2
Gut		6.0	46.0
SCb		5.22	46.74

1+50

SCb		7.64	44.34
Gut		8.2	43.8
¼		8.2	43.8
½		8.1	43.9
¼		8.4	43.6
TP	0.79	44.40	8.35	43.4
Gut			1.0	43.4
NCb			0.52	43.88

2+0

HCb		7.93	41.47

4440

Gut		3.5	40.9
¼		3.2	41.2
½		3.9	41.5
¼		3.9	41.5
Gut		3.1	41.3
SCb		2.37	42.03

2+50

SCb		4.67	39.73
Gut		5.3	39.1
¼		5.2	39.2
½		5.2	39.2
¼		5.5	38.9
Gut		5.8	38.6
HCb		5.24	39.16

3+0

NCb		7.60	36.80
Gut		8.2	36.2
¼		8.2	36.2
½		7.0	36.6

Florence St.

		14+40		
¼		8.0	36.4	
Gut		8.0	36.4	
Scb		7.08	37.32	Low 18
		3+50		
Scb		11.23	33.17	Low 16
Gut		12.0	32.4	
¼		11.9	32.5	
½		11.7	32.7	
¼		12.0	32.4	
Gut		12.2	32.2	
Hcb		11.54	32.86	
TP	0.25	27.83	12.32	32.08
		4+0		
Hcb		6.46	28.87	
Gut		4.4	27.9	
¼		4.0	28.3	
½		3.6	28.7	
¼		3.7	28.6	
Gut		4.1	28.2	

		27.33		
Scb		6.38	28.95	Low 22
		4+50		
Scb		7.60	24.73	Low 27
Gut		8.2	24.1	
¼		7.8	24.5	
½		7.6	24.7	
¼		7.8	24.5	
Gut		8.0	24.3	
Hcb		7.52	24.81	
		5+0		
Hcb		11.58	20.81	
Gut		12.6	19.8	
¼		12.4	19.9	
½		12.4	19.9	
¼		12.5	19.8	
Gut		12.8	19.5	
Scb		11.75	20.55	
TP	1.0	21.16	12.70	20.13

		21.15			
	5+50				
S Cb			4.88	16.27	
Gut			5.7	15.5	
1/4			5.8	15.4	
d/2			5.6	15.6	
1/4			5.9	15.3	
Gut			5.4	15.8	
H Cb			4.38	16.77	
	5+73.90 on S 5+74.1 on N		H End Conc Cb + Walk		
H Cb			6.35	14.80	
Gut			7.5	13.7	
1/4			7.4	13.8	
d/2			7.2	14.0	
1/4			7.5	13.7	
Gut			7.2	14.0	
S Cb			6.86	14.29	
TP	1.43	18.97	6.61	14.54	
			1.72	17.25	On B.L. Hub 0+0 34+45 St. 17.50

Page 2 this Book
Starting from B.M. 11.05
Martin + Gregory

Sand Sample

		%
Ga.	10 mesh	13.4
	20	25.0
	30	17.2
	50	29.0
	80	8.0
	100	4.0
	over	3.4

May 28. 1915

"	10	12.0
	20	36.6
	30	24.0
	50	20.6
	80	4.0
	100	1.8
	over	1.0

Sand.

Sand taken from Mission Valley deposited at Stockton Inter.

Mission Valley Sand

Sample taken No. Side Wilson

May 28. 15

Mission Valley. deposited at Wilson

On	Mesh	%
"	10	15.4
	20	39.4
	30	21.1
	50	18.0
	80	4.8
	100	1.3

Sand Sample Morse pile June 7. 1915
taken by G.W.K. from Wilson Ave. 4 piles

	10	10.1
	20	22.3
	30	20.7
	50	34.8
	80	8.0
	100	1.4
	passed	2.5

Sand Sample taken by Close & Morse from Mission River as a representative sample. June 7. 1915

On	Mesh	%
	10	22.0
	20	41.0
	30	16.2
	50	15.8
	80	3.0
	100	.8
	passed 100	1.2
		100.0

Sand Sample taken by Close from pile Brought in by Morse. (Rejected by Close)

On	Mesh	%		June 8. 15 passed %
	10	13.3		86.7
	20	31.7	low.	55.0
	30	19.3		35.2
	50	22.4	high	12.8
	80	7.0		5.8
	100	2.0		3.8
	passed	4.3	← Rotten	3.8
		100%		

Sand sample taken by H.A.K. from car of Lakeside Sand June 9, 15

On	Mesh	%	
	10	16.8	
	20	29.8	
	30	22.1	68.7
	50	24.2	24.2
	80	5.1	
	100	1.1	
	passed	.9	7.1
		100%	

Sand Sample

June 18, 15

Taken by H.A.K. from Sand pile at Copeland dumped to be used by Tad Const. Co. on Steiner

On	Mesh	%	← % passed Sieves →	Blended Sample	A
	10	12.7	87.3	43.85	89
	20	24.2	63.1	30.0	69
	30	22.1	41.0	27.8	47
	50	27.9	13.1	18.0	21
	80	8.1	5%	13.0	5.9
	100	2.0	3%	5.0	3.8
	passed	3.0	3%		3.9

Sand Sample taken by G.W.H.

from Sisson & Clark (Mission Sand) Jun 11, 15

On		
	10	13.1%
	20	26.3
	30	24.5
	50	27.0
	80	6.1
	100	1.5
	Passed	1.5

Sand Sample. (Sidewalk

Taken by Close between Hugo & Stockton

June 21. 191

	Retained	
10	14.7	15.4
20	28.3	29.8
30	23.1	52.1
50	25.3	77.4
80	6.0	83.4
100	1.0	
passed	1.6	

Sand Sample — June 22, 15

taken by W.J.L. from piles between Copeland & Stockton dumped for Sidewalk & Curb.

			Passed
Retained	10	9.3%	90.7
	30	52.5	38.2
	50	21.7	16.5
	80	12.7	3.8
	100	2.5	1.3
	passed	1.3	1.3

Sand Sample — June 22, 15

Taken by W.J.L. from Copeland Sand pile (Paving Mk)

			passed
Retained	10	16.1	83.9
	30	51.5	32.4
	50	17.1	15.3
	80	12.6	2.7
	100	1.7	1.0
	passed	1.0	1.0

Sand Sample — June 22, 15

Taken by W.J.L. pile Conklin Ave (Paving work)

			Passed
Ret.	10	13.4	86.6
	30	50.7	35.9
	50	19.0	16.9
	80	12.0	4.9
	100	2.5	2.4
	passed	2.4	2.4

Sand Sample — Bradt Ave June 22.

Taken W.J.L. (Paving)

Ret.	10	17.2%	82.8
	30	52.8	30.0
	50	15.7	14.3
	80	10.8	3.5
	100	1.8	1.7
	passed	1.7	1.7

Wilson Ave. June 22

Sand Sample taken from pile at Wilson by W.J.L. (Paving Material)

Retained Mesh		
10	11.7	88.3
30	49.8 (61.5)	38.5
50	20.9	17.4
80	14.4	3.2
100	1.7	1.5
passed	1.5	1.5

Pauly Ave. June 22

Sand Sample taken from pile at Pauly by W.J.L. (Paving Material)

10	12.3	87.7
30	52.7	35.0
50	20.9	14.1
80	10.8	3.3
100	1.9	1.4
passed	1.4	1.4

Voids on Dry Sample 41%

Wilson Ave July 8, 15

Sand Sample taken from Wilson ave by H.A.K. (Paving Material)

	Retained	
10	11.1%	88.9
20	29.5% (40.6)	59.4
30	23.0% (63.6)	36.4
50	17.9	18.5
80	14.1	4.4
100	2.4	2.0
passed	2.0	2.0
	100.0	

Blended Sand

10	53.1	46.9
20	14.7	32.2
30	11.8	20.4
50	10.4	11.4
80	6.4	5.0
100	1.4	3.6
pan	1.2	2.4

Wilson July 12

Sample taken by H.H.K.

Ret	10	12.0	88.0
	20	28.3	59.7
	30	21.6	38.1
	50	18.19	20.0
	80	15.7	4.8
	100	7.3	2.5
	passed	7.1	2.5

Sample

Chamoune
Hyde Const Co
Sample by G.N. Houser July 21-15

		%	
Ret.	10	5.0	6.1
	20	25.0	25.5
	30	27.5	30.7
	50	25.1	22.2
	80	17.0	12.9
	100	0.6	1.4
	Passed	2.0	1.2

Taken Tayly by Houyer. July 21, 15

Ret	10	23.1	
	20	31.0	
	30	17.9	
	50	7 2.5 / 7 1/2	7 2.0 / 15.9
	80	9.7	
	100	1.3	
	passed	1.1	

Taken by H.A.K. from Mississippi River July 28

Ret.	10	25%
	20	38.5
	30	20.0
	50	10.6
	80	4.4
	100	.7
	passed	.8

Taken by W.J.L. from Pauly Aug. 2. on face of pile

	mesh	per cent
Ret.	10	13.31%
"	20	29.11
"	30	22.18
"	50	20.45
"	80	10.71
	100	2.15
	passed	2.00

Taken from pile at Copeland Aug. 5, 15 (face of pile) W.J.L.

Retained	10	12.5
	20	28.1
	30	23.3
	50	19.1
	80	12.4
	100	2.4
	passed	2.2

San Diego Asphalt surface Mix— from Mixer
(Beach & River No Dust.) Taken by H.A.K. Aug 4— Barber Asphalt Plant

			Ideal
Retained	10	.3	3
	20	8.0	5
	30	10.0	8
	50	28.8	40 11 / 50 23.5
	80	38.7	13
	100	9.6	13
	200	2.4	13
passed		1.7	

Tia Juana River Sand - Top —
Sand Delivered by - F.S.B.
to Barber Asp. Plant Aug 5-15
Sample taken by H&K Aug 6-15

		%
Retained	10	3.9
	20	11.7
	30	20.0
	50	26.1
	80	30.3
	100	4.9
	200	1.2
passed		.3

Beach Sand
F.G.W. Co. plant
Sample by H&K Aug 9

Retained	30	.49
	50	5.30
	80	66.06
	100	23.60
	200	3.91
passed		.63

Mix F.G.W. Paving Co. Yard
Top Sand - (River & Beach)
Taken by H&K - Aug 9-15
taken by H&K Aug 9

			ideal	Comparison F.G.W. Const. Co.
Retain	10	1.4	3.0	3
	20	7.1	5.0	8.0
	30	11.2	8.0	10.0
	50	18.7	34.5	38.8
	80	42.8	13.	38.7
	100	15.8	13.	9.6
	200	3.0	13.	2.9
pass.		.7		1.7

Tia Juana River Sand Top. 700 per T.
F.G.W. Paving Co. Yard.
taken by H&K Aug 9

Re		
Ret.	10	7.6
	20	17.4
	30	18.1
	50	23.5
	80	33.8
	100	7.7
	200	7.0
passed		.4

Beach Sand Taken by HAK
Fed Const Co. To be used on Clark Ave Aug. 12

		%
Ret.	30	1.1
	40	5.3
	50	5.3
	80	59.4
	100	27.6
	200	.9
	passed	.4

Sample Dust taken from
Col. Ariz. Plant by HAK Aug 2-15

		%
Ret	80	5.1
	100	14.3
	200	13.3
passing	200	67.3

Asphalt Top Mix- 35# oz 26
½ Beach Sand ½ River Sand + 10% Dust
taken by HAK from piles
at Plant of Cal & Ariz Cons't Co
Aug 10 - 15

		%	Recalculated
Ret	10	1.22	1.6
	20	6.03	5.4
	30	9.04	9.3
	40	11.35	14.9
	50	4.96	
	80	41.31	43.7
	100	14.71	15.8
	200	3.72	3.0
Passed		4.78	6.4

Top Sand - Mixture
Asphalt top mix without dust Aug 21 '15
taken by H.A.K from Plant

	%	
10	1.9	3
20	6.0	5
30	11.9	8
40	16.5	11
50	5.8	13
80	39.6	13
100	15.5	13
200	3.3	13
passed	0.5	

Sample dust taken by H.A.K.
from Cal. Ar. Co. Plant Aug. 23, 15

		%
Ret	50	0.90
	80	4.81
	100	8.43
	200	25.00
passed		60.86

Sample from Wilson pile (face of pile) for paving by H.A.K. 8/20/15

		%
Ret	10	11.29
	20	30.94
	30	21.53
	40	15.76
	50	2.71
	80	13.86
	100	2.50
	passed	1.09

Sample of sand from Bradt pile for paving

Taken by W.J. Leeker.

Ret	10	16.69
	20	22.70
	30	21.96
	40	17.79
	50	2.82
	80	14.48
	100	2.09
	200	0.86
	passed	0.61

Sand Sample from face of Conklin pile for paving Taken by H.A.K. 8/10/15

Ret	10	16.92
	20	31.76
	30	23.94
	40	14.73
	50	1.96
	80	8.86
	100	1.15
	200	0.34
	passed	0.34

Hugo Ave

Sand Tests

Feb 17 1916.

Ret.	o/o	Ret	%
10	23	10	0
20	15	20	6
30	14	30	14
40	14	40	30
50	2	50	8
80	23	80	36
100	6	100	7
Passed	3%	Passed	1.5

Sample Sand Proposed for State Highway in E.S.D. Feb. 5, 1918

Mission Valley Sand

Screen No.	Oz. Ret.	% Ret.	Oz Passed	% Passed
10	8.1	40.5		59.5
20	7.3	36.5		23.0
30	1.7	8.5		14.5
40	0.8	4.0		10.5
50	0.15	0.75		9.75
80	1.15	5.75		4.0
100	0.6	3.0	.15	.75

D. Ryan - Mission Valley Sand - Feb 20, 1918

Screen No.	Oz Ret.	% Ret.	Oz Passed	% Passed
10	.8	4.0		
20	4.5	22.5		
30	5.7	28.5		
40	4.6	23.0		
50	.4	2.0		
80	3.0	15.0		
100	.3	1.5	.1	.5

Sand Test, D. Ryan From Lakeside

Screen No	Oz Ret.	% Ret.	Oz Passed	% Passed
10	2.5	12.5		86.2
20	5.75	28.5		57.7
30	4.25	21.2		36.5%
40	3.00	15.0		21.5%
50	.5	2.5		19 %
80	3.0	15.0		4 %
100	.75	3.75	.25	1.25

Sand Test
Wabash Ave
O. Nelson - Mission Valley. Nov. 20, '17.

Screen No	OZ Ret.	% Ret.	OZ Passed	% Passed
10	1.5	7.5		
20	5.5	27.5		
30	5.5	27.5		
40	3.7	18.7		
50	.5	2.5		
80	2.5	12.5		
100	.5	2.5	.2	1.0

Sand for Mission + Univ. Washout.
from Mission Valley. Oct. 9, 1917

Screen No	OZ Ret.	% Ret.	OZ Passed	% Passed
10	.75	3.75		
20	2.0	10.0		
30	3.5	17.5		
40	4.0	20.0		
50	.25	1.25		
80	.75	37.5		
100	1.75	8.75	.75	3.75

Sand for Library #1 G.F.H.

Mar 1, 1918

1 oz = 5%

Screen #	oz ret.	% ret.	oz passed	% passed
10	4.00	20%		
20	3.00	15%		
30	4.20	21%		
40	5.3	26.5		
50	0.2	1.%		
80	2.5	12.5		
100	0.3	1.5	0.2	
Total	19.5	97.5		

Test of Sand for Library # 2 WCB. 31

Mar 20, 1918.

Screen #	oz. ret.	% ret.	oz. passed	% passed
10	2.3	11.5		88.5
20	7.0	35.0		53.5
30	5.3	26.5		27.0
40	3.0	15.0		12.0
50	0.2	1.0		11.0
80	1.7	8.5		2.5
100	0.3	1.5	0.2	1.0
Total	19.8	99.0		

Test of Sand
Chollas

W. C. Brown

Screen #	oz. ret	% ret.	oz. passed	% passed
10	5.4	27.		73.
20	3.4	17.		56.
30	4.5	22.5		33.5
40	3.4	17.		16.5
50	.55	2.75		13.75
80	1.9	9.5		4.25
100	.35	1.75	0.15	.75
Totals	19.50	97.50		

Sample No 1.

W.C. Brown 32

For Univ. Paving.
From Mission Valley.
Deposited at Euclid, south.

Screen #	oz. ret.	% ret.	oz. passed	% passed
10	3.3		16.70	83.50
20	7.15		9.55	47.70
30	4.8		4.75	23.70
40	2.6		2.15	10.75
50	0.25		1.90	9.50
80	1.5		0.40	2.00
100	0.25		0.15	0.75

Organic test very good.

Sample #2.

For Univ. Paving.

W.C. Brown.
Sept 17, 18

Deposited at Castillo, South side.

Screen #	oz. ret.	% ret.	oz. passed	% passed
10	1.50		18.35	92.0
20	4.80		13.55	67.7
30	5.90		7.65	38.3
40	4.45		3.20	16.0
50	0.60		2.60	13.0
80	2.15		0.45	2.3
100	0.30		0.15	0.8

Sample of Sand

for Street Ry. Paving near VanDyke.

Screen #	oz. ret.	% ret.	oz. passed	% passed
10	4.75		15.00	75.00
20	5.20		9.80	49.00
30	3.80		6.00	30.00
40	2.60		3.40	17.00
50	0.35		3.05	15.25
80	2.10		.95	4.75
100	0.50		0.45	2.25

B.M. Check Levels #1
State Park B.M. #1 to
Con. Mon. S/y P.L. 249
Used Berger Level #15818 (USC&G Datum)

	12.13	23.17		11.04	9.81 + 1.23 = 11.04
T.P.	11.865	34.385	0.65	22.52	
T.P.	0.264	23.519	11.13	23.255	
T.P.	5.187	16.041	12.665	10.854	
T.P.	4.282	15.695	4.628	11.413	
T.P.	4.77	15.603	4.862	10.833	
			4.758	10.845	
T.P.	3.903	15.461	4.045	11.558	
			4.645	10.816	
T.P.	4.407	15.765	4.103	11.358	
			4.527	11.238	
			10.53	5.235	
T.P. Return	4.22	15.513	4.472	11.293	
T.P.	4.128	15.599	4.042	11.471	
T.P.	4.703	15.658	4.644	10.955	
T.P.	4.657	16.063	4.252	11.486	

contd.

Moore
1-23-40.
(Mission Bay)

F.B. 577 34

Mission Bay State Park BM #1 1934 Brass disc in cb

11.040
11.007
0.033
on B.P. S.E. Wingwall 2nd bridge S of Crown Pt.
10.825 = Elev. walker
+ 0.033
10.858 ← See P 22 F.B. 1423 also P 53

10.845
− 1.23
9.615 Fd. B.M. "B" Marked Fly cb Causeway = 9.603

10.816
− 1.23
9.586 Fd. BM "A" " " " 9.563

11.238
− 1.23
10.008 = State Park on Hughs Chisel Cross in curb 9.97
on Conc. Mon. S/y Cor. P.L. # 249

10.008
9.97
diff = 0.038

16.062

T.P.	11.902	22.747	5.218	10.846	
T.P.	11.716	33.962	0.501	22.244	
T.P.	0.17	22.094	12.038	21.924	
check to BM #1	STATE Park	11.025	11.069	11.04	error 0.029

on BM BP SE wing wall 2nd Bridge

BM. Check Levels #2
State Park (Mission Bay)

used Gurley Level # 272520

(V.S.C.+G.)

	12.048	23.088		11.04
T.P.	12.498	35.080	0.506	22.582
T.P.	0.642	24.300	11.422	23.658
T.P.	1.425	16.033	9.692	14.608
			5.182	10.851
T.P.	4.184	15.987	4.23	11.803
T.P.	4.652	15.607	5.032	10.955
T.P.	5.446	16.353	4.70	10.907
T.P.	4.972	15.823	5.502	10.851
			4.558	11.265
			10.562	5.261

Moore
1-24-40

FB.577 36

Mission Bay State Park BM #1 Brass disc in of

check to B.M.B.P. SE Wingwall 2nd bridge S of Crown Point

11.265
1.23
10.035 on Hughs chisel cross in curb
on Con. Mon. Sly Cor. Pt. #249

Check Levels on
So called Slough betw.
Glover Q + R Lines

See P 34

STATE Park DATUM.

	2.163	12.171		10.008
T.P.	4.583	8.586	8.168	4.003
T.P.	4.163	7.949	4.80	3.786
R2 = 0+00			4.12	3.829
0+05			4.13	3.819
0+10			4.12	3.829
0+15			4.13	3.819
0+20			4.13	3.819
0+25			4.13	3.819
0+30			4.14	3.809
0+35			4.16	3.789
0+40			4.21	3.739
0+44			4.22	3.729
0+45			4.24	3.709
0+49			4.24	3.709
0+50			4.25	3.699

Moore
Sisson
Northern
Osborn

1-25-40.

F.B. 577 37

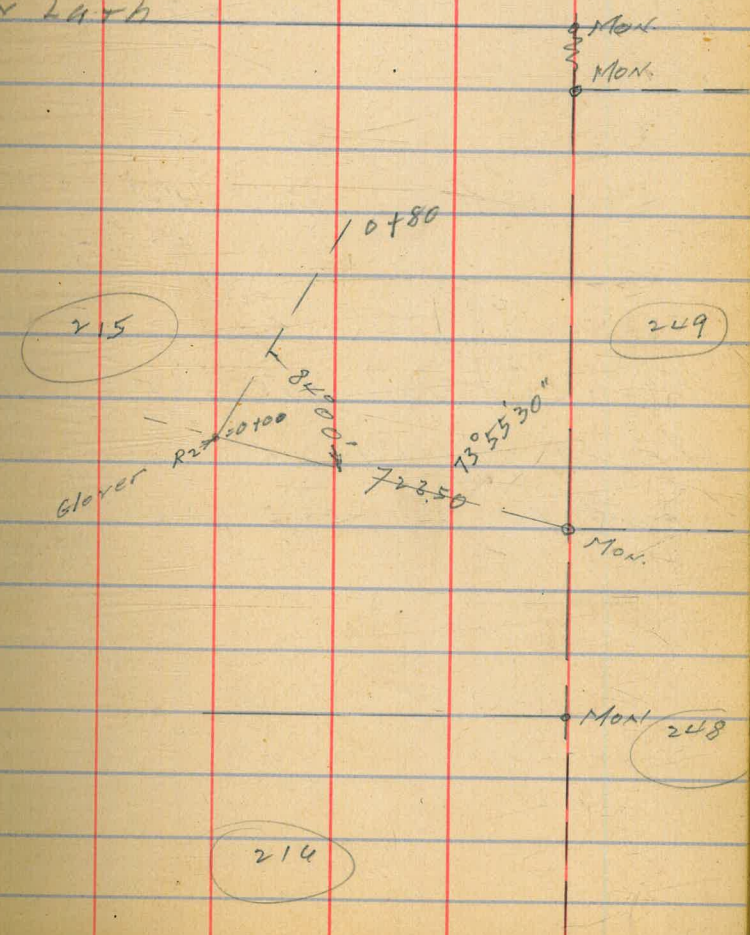
See also P 36

on Chisel Cut Top curb Hughs B.M.

on Con. Mon. Sly Cor. PL 249

4.003
1.23
5.233

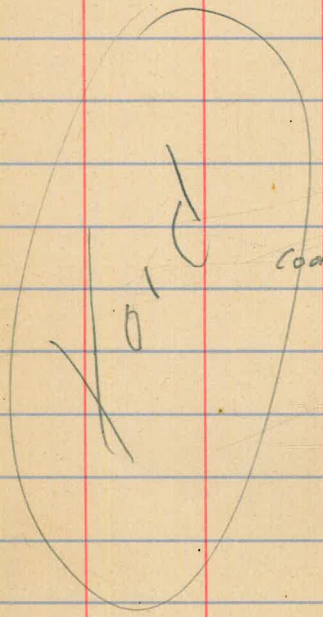
on Lath

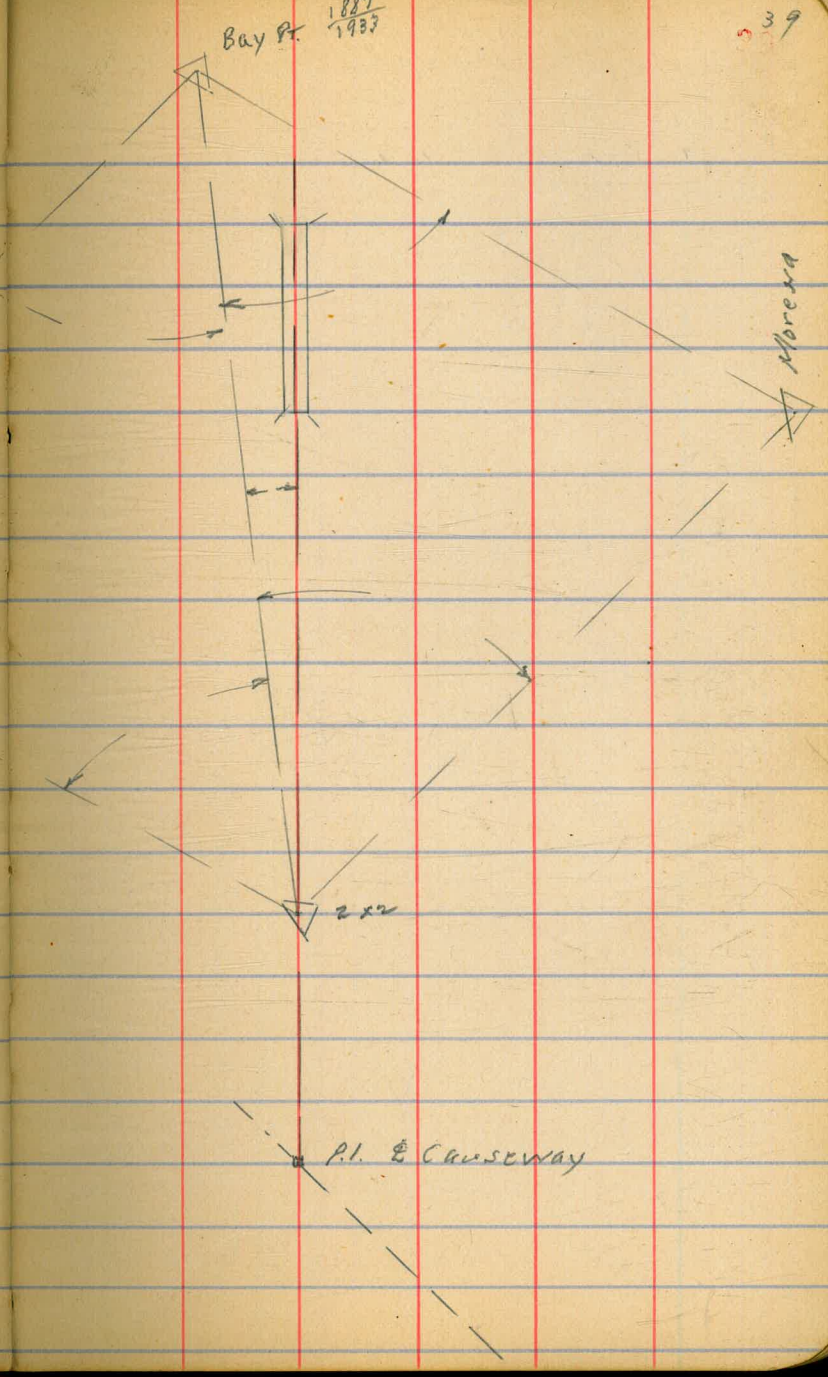


7.949

0 + 51		4.24	3.709	
0 + 55		4.19	3.759	
0 + 60		4.05	3.899	
0 + 65		3.90	4.049	
0 + 70		3.84	4.109	
0 + 75		3.81	4.139	
0 + 80 INTO ⓐ		3.76	4.189	
T.P.	4.014 7.138	4.825	3.124	on Earth
T.P.	9.146 14.859	1.425	5.713	" "
check to		4.855	10.004	10.008 Hughes Chisel Cut in Curb
				0.004

MISSION BAY ANGLE NET.





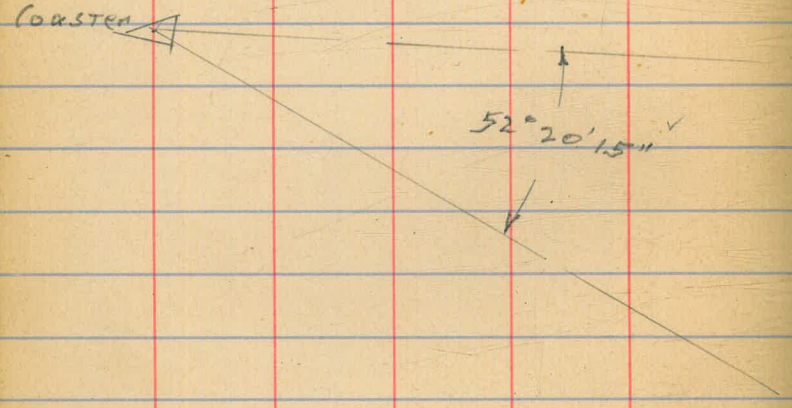
Mission Bay △5

Moore
Sisson
Northern
2-7-40.

⊼ Coaster
Morena to P.I.

52° 20' 30" Rt.
8) 418° 42' 00 Rt.
102
52° 20' 15"

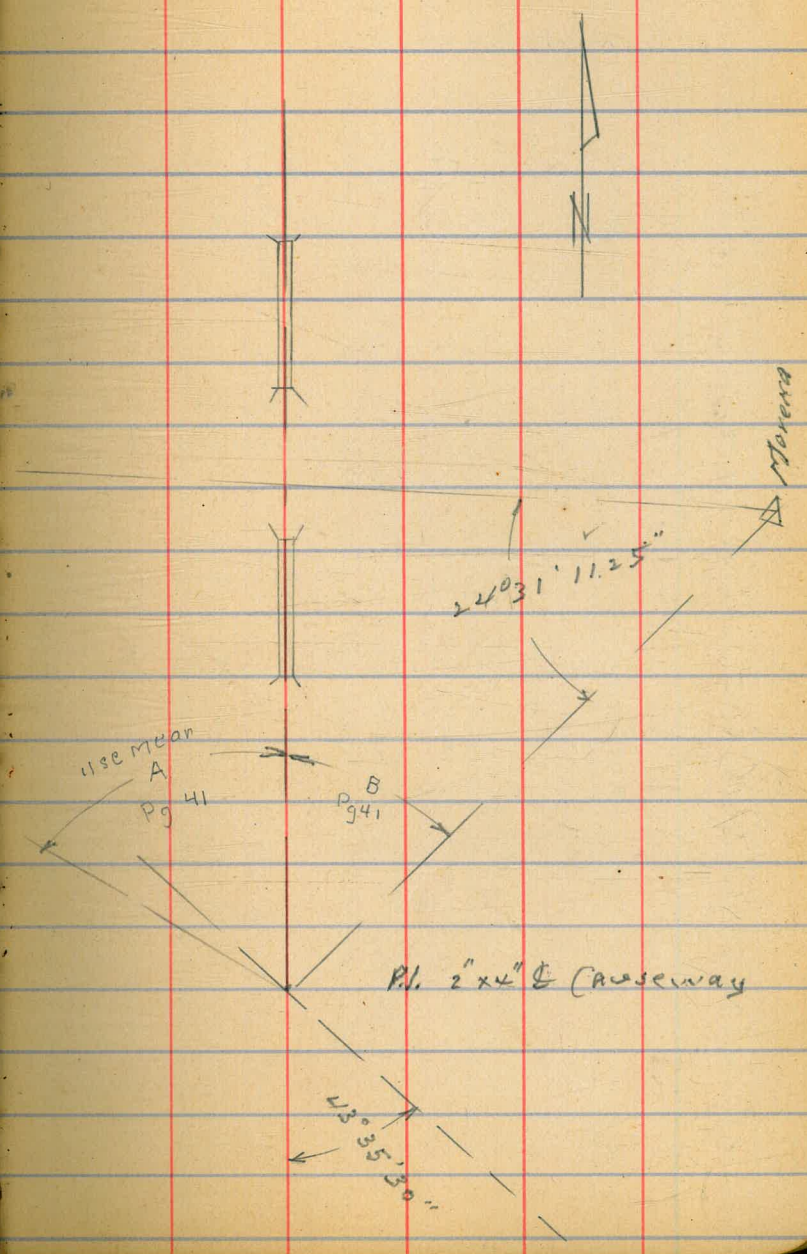
418° 42' Lt.



P.I. △ 3) 130° 46' 30"
106
43° 35' 30"

P.I. to Bay Pt.
Thru Lamp Post.

40
1408



Δ = Morena

P.I. to Coaster

① 24° 31' Rt

8 | 196° 09' Rt

24° 31' 07.5

② 8 | 196° 10' 30" Lt

24° 31' 18.75"

③ $\frac{196° 09' 30"}{8}$ Lt to Rt

④ 8 | 196° 09' 30" Rt to Lt.

24° 31' 11.25"

Δ = P.I. Causeway ℄

Coaster to N'ly ℄ Causeway

$\frac{376° 12'}{8} = 47° 01' 30"$ (A)

use mean

℄ to Coaster

$\frac{376° 13' 00"}{8} = 47° 01' 37.5"$

℄ Causeway to Morena

$\frac{393° 49'}{7} = 56° 07' 00"$ usemean (B)

Morena to ℄ Causeway

$\frac{448° 56' 30"}{8} = 56° 07' 03.75"$

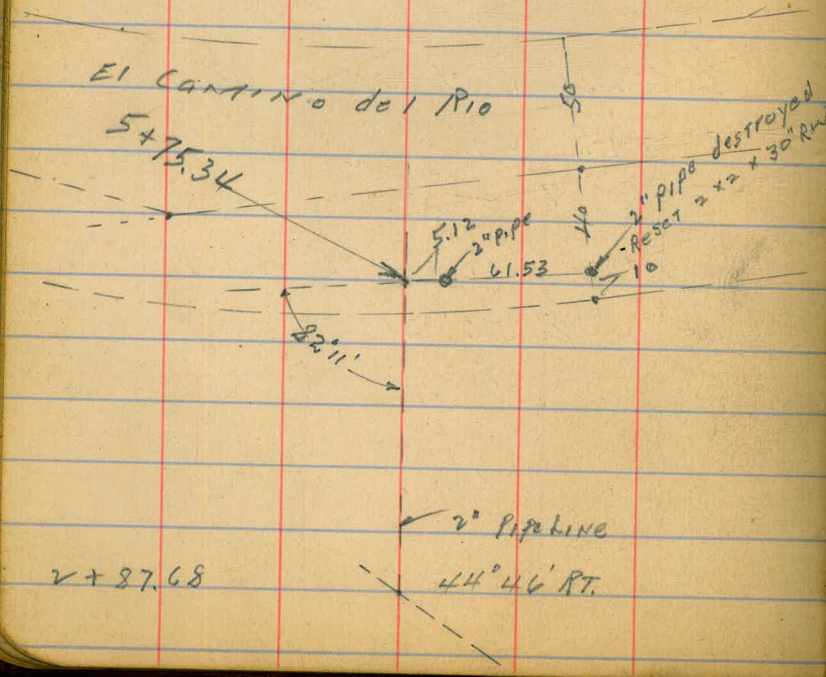
Moore
Osborn
Hale 3-27-40.

INDEXED
EFB

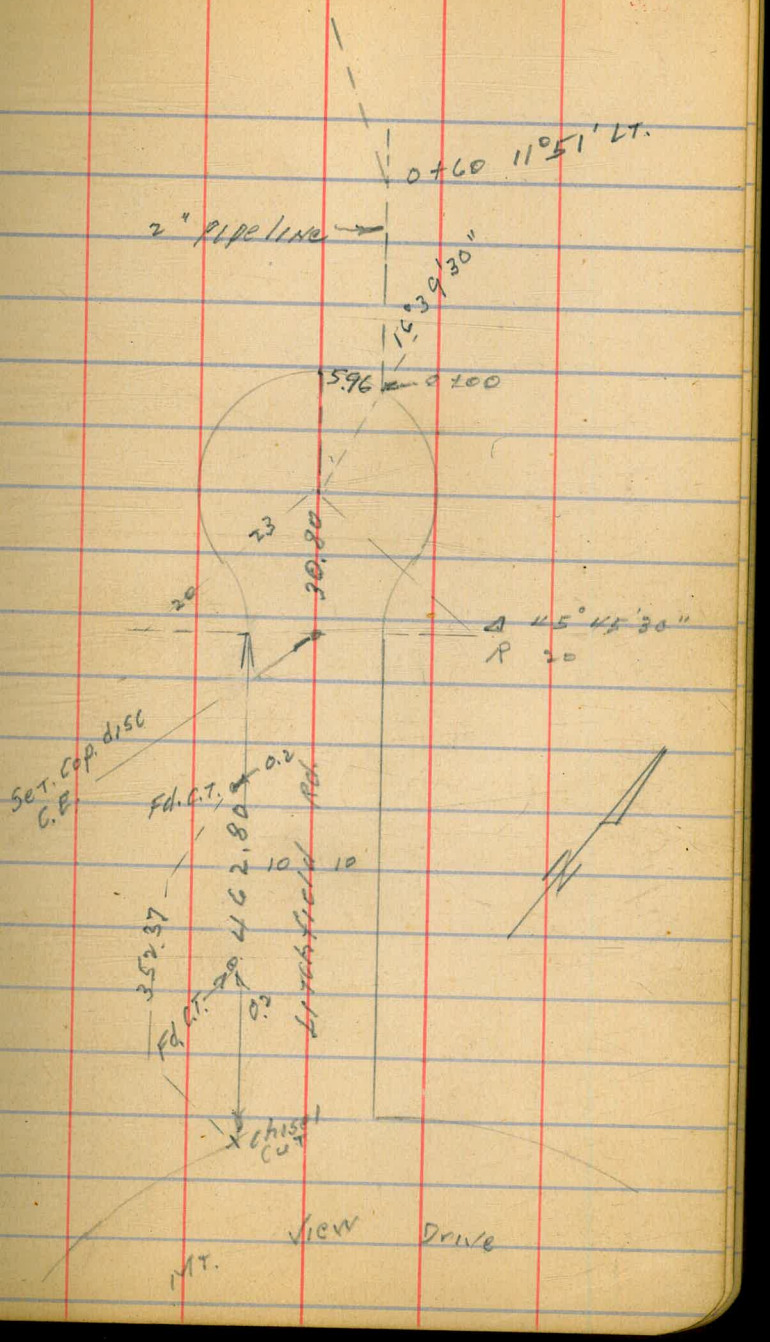
Location of EXISTING
2" waterline thru LOTS 15-16
Windsor Place. Map # 1870

0+00 16°39'30" LT. B.S. on R.
0+60 11°51' LT.
1+00 7°34'30" LT.
2+00 6°55'30" LT
2+87.68 44°46' RT M 45

See T.P. Bk. 18 P 24



42



Slope Meas. of alley
Blk 26 Ocean Beach Moore
6-28-40

Better job of header setting
than on Blk 46 Park Villas.

INDEXED
EPB

43

Froude St

6+00.70 20

1+70 20

1+50 19.90

1+40 20

0+00 20

Ebers St.

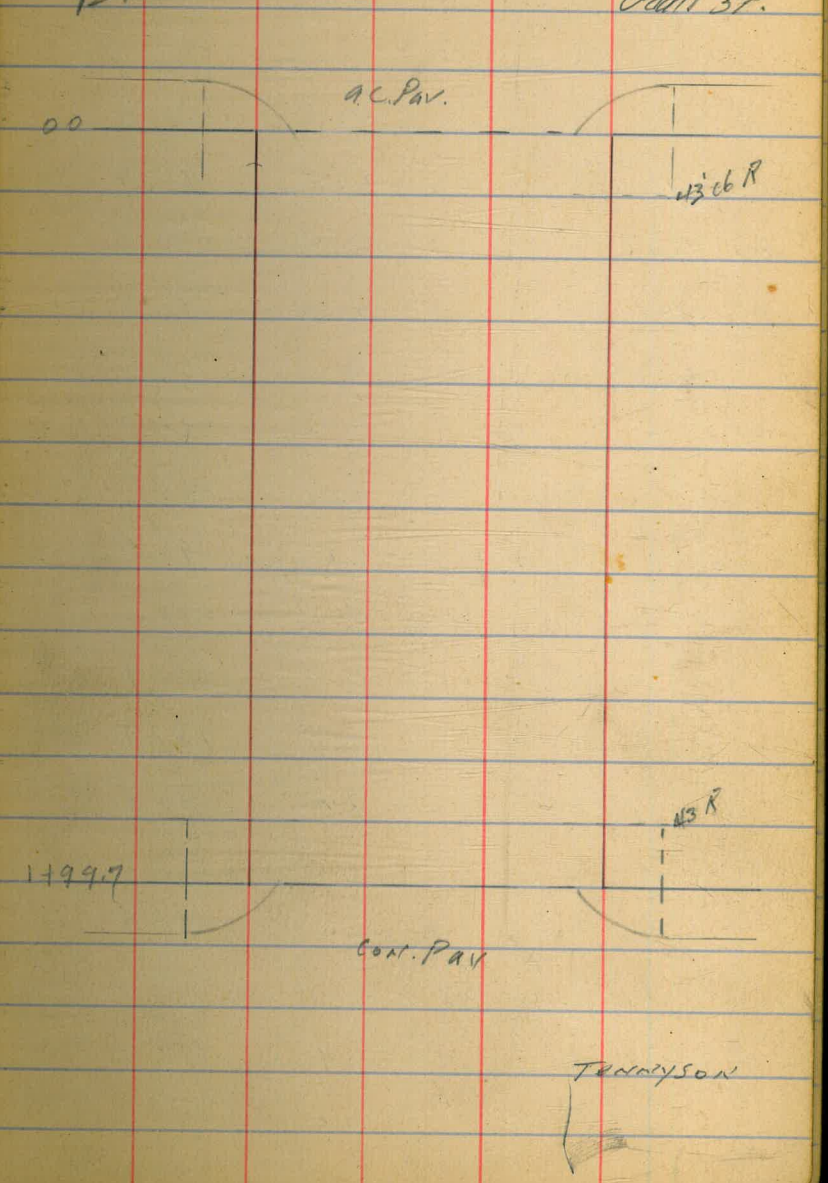
Xsec Plum St. 70' wide
Udall to Tennyson 18' curbs
8½ 1/4s

SWBP	4.45	196.14		191.69	Udal Plum
0-09					
W			4.09	192.05	
W + 1.2 Top cb			4.09	192.05	
"	gut		4.72	191.42	
cb	Pav		4.17	191.97	
1/4	"		4.03	192.11	
c	"		4.01	192.13	
1/4	"		4.09	192.05	
cb	"		4.19	191.95	
+ 16.8	gut		4.18	191.96	
"	cb		3.45	192.69	
E			3.39	192.75	
0+0 SL Udall					
E			2.4	193.7	
+ 10	cb		4.19	191.95	
"	gut		4.81	191.33	
cb	Pav		4.65	191.49	
1/4			4.36	191.78	

Reduced & Plotted by H.M. Cole
6/29/40 Profile 1305

Moore
6-28-40

INDEXED
EFB



1964

c	4.28	19186
1/4	4.nn	19192
cb	4.28	19186
+8.7	4.65	19149
cb Top	4.04	19210
W	4.2	1919
0+05		
W	4.6	1915
+2	4.0	1921
cb	4.3	1918
1/4	4.1	1920
c	4.4	1917
1/4	4.3	1918
cb	3.8	1923
+15	1.5	1946
E	1.4	1947
0+25 cb EC.		
E	1.9	1942
cb	2.8	1933
1/4	3.5	1926

1964

c	3.6	1925
1/4	3.8	1923
cb	4.1	1920
W	4.8	1913
0+35		
W	5.0	1911
-5 E Flag Stone Porch	5.26	19088
0+50		
-4 against House	4.1	1906
W	6.0	1901
+10	4.0	1921
cb	4.1	1920
1/4	4.2	1919
c	4.1	1920
1/4	4.2	1919
cb	3.3	1928
E	2.9	1932
0+72		
E	3.8	1923
cb	4.4	1917
1/4	5.0	1911

1914

C	4.9	1912
1/4	5.1	1910
C6	5.0	1911
+10	5.7	1904
+14	8.1	1880
W beg. 6' Bd. fence	11.0	1851
+5	11.6	1845
0+99.8		
-10	13.4	1827
W' end Bd. fence	13.4 13.0	1827 1831
+8	11.7	1844
+15	10.8	1853
C6	9.7	1869
1+00		
-10	13.7	1804
W	14.7	1814
+10 P.P.		
+15	11.6	1845
C6	9.8	1863
+3	8.5	1876

1914

1/4	8.4	1879	
C	8.0	1881	
1/4	7.3	1888	
C6	6.8	1893	
E	5.7	1904	
1+35			
E	8.1	1880	
+11	10.0	1861	
+14	11.0	1851	
C6	11.5	1846	
+5	11.7	1844	
1/4	12.9	1832	
C	13.6	1825	
T.P.	0.74	184.23	12.63	1835.1
1/4	4.1	1821	
C6	4.9	1813	
+8	5.7	1785	
W	6.9	1773	

W +10	7.5	1767
1+75 c6 P.C.		
-10	10.4	1738
W	10.3	1739
+10	9.9	1743
c6	9.N	1750
1/4	8.7	1755
C	8.3	1759
1/4	7.7	1765
c6	6.3	1779
+9	4.8	1794
E	4.N	1800
1+95		
E	6.6	1776
+9	7.8	1764
c6	9.N	1750
1/4	10.1	1741
C	10.9	1733
1/4	11.3	1729
c6	11.4	1728

W	11.7	1725
+10	11.8	1724
1+99.7 N of Tennyson		
W	12.5	1717
+10 c6 Top	12.11	17212
" gut	12.57	17166
c6	12.45	17178
1/4	11.93	17230
C	11.77	17246
1/4	11.65	17258
c6	11.65	17258
+9.7 gut	11.73	17250
" c6 Top	11.21	17302
E	9.8	1744
9' S of N of Tennyson		
E	11.22	17301
+1 c6 Top	11.25	17298
" gut	11.78	17245
c6 Pav	11.79	17244
C "	12.01	17222
c6 "	12.17	17151

184.73

c6 + 17	QUT		13.30	170.93	
" "			17.87	171.36	
"			14.88	171.35	
06 E.C. NW Cor		Plum Tennyson	14.14	170.09	
SW BP	10.70	197.86		187.16	Udall Willow
"			6.17	191.69	Udall Plum

Please look up

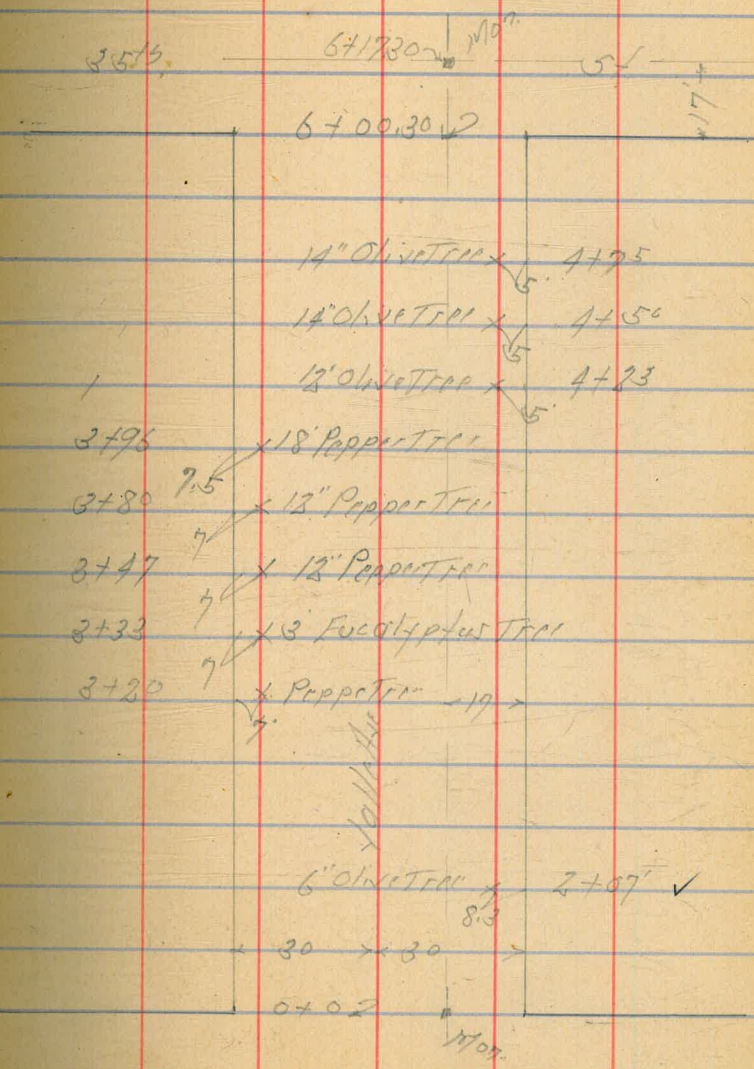
Cross Section Valle Ave
34th St to 35th St.

60' Wide
10' Cbs
10' 1/4

Sept. 21-40
Sisson
Northern
Hole

BM	5.06	22.28		17.22	SE Top Hyd Ocean View + 33rd St.
TP	3.07	21.91	3.44	18.84	
		0+0 = E.L. 34th St			
-10			6.6	15.3	
N			6.6	15.3	
Cb			6.6	15.3	
1/4			6.5	15.4	
℄			6.6	15.3	
1/4			6.7	15.2	
Cb			6.7	15.2	
S			7.0	14.9	
+10			7.1	14.8	
		0+52 = Wly Conc Wall on So			
-10			5.2	16.7	
-0.9 = Wly Conc. Wall 6"			3.93	17.98 ✓	
S			4.8	17.1	
Cb			5.2	16.7	
1/4			4.8	17.1	

Red T Plot. new profile 9-24-40 CBH.



		21.91			
℄			4.8	17.1	
1/4			4.8	17.1	
Cb			5.1	16.8	
N			5.3	16.6	
+10			5.2	16.7	
		0+77			
-10			4.0	17.9	
N			3.9	18.0	
Cb.			4.0	17.9	
1/4			3.9	18.0	
℄			3.6	18.3	
1/4			3.6	18.3	
Cb			3.7	18.2	
S			4.0	17.9	
+1.0 = ℄ 3.5 Gate Entrance			3.73	18.18	✓
+1.0 = ℄ 3.5 Conc Walk Top			4.42	17.49	✓
		1+0			
+1.0 = Ely 6" Conc Wall Top			2.50	19.41	✓
S			3.0	18.9	

		21.91			
Cb			2.7	19.2	
1/4			2.5	19.4	
℄			2.5	19.4	
1/4			2.6	19.3	
Cb			2.5	19.4	
N			2.6	19.3	
+10			2.2	19.7	
		1+12			
S -1.6 = ℄		Conc Walk	2.40	19.51	✓
TP	12.42	34.25	0.08	21.83	Nail Tree Stump on Cb 1+45
		1+48			
-4 = ℄ 3.3 Conc Walk			8.38	25.87	✓
N			9.1	25.2	
Cb			10.3	24.0	
1/4			11.5	22.8	
℄			12.0	22.3	
1/4			12.3	22.0	
Cb			11.9	22.4	
S			12.3	22.0	

Valle Ave

34.25

2+00

S		7.0	27.3
CL		6.6	27.7
¼		6.9	27.4
½		6.5	27.8
¼		6.5	27.8
CL		5.0	29.3
N		4.2	30.1
TP	11.71	45.38	0.58 33.67

2+50

N = Base Conc Block Wall		9.6	37.8 ✓
CL		8.2	37.2
¼		10.5	34.9
½		10.2	35.2
¼		10.3	35.1
CL		10.2	35.2
S		9.9	35.5
S Top 6" Conc Wall		9.12	36.26 ✓

45.38

2+75

S = ¼ Conc Walk		6.39	38.99 ✓
CL		6.2	39.2
¼		6.6	38.8
½		6.4	39.0
¼		6.7	38.7
CL		5.6	39.8
N		4.8	40.6

2+82

N - 0.5 = ¼ Conc Walk		4.31	41.17 ✓
TP	12.12	57.24	0.26 45.12

3+07

N		8.7	48.5
CL		9.5	47.7
+3		9.8	47.5
+6		11.3	45.9
¼		11.8	45.4
½		11.7	45.5
¼		11.9	45.3
CL		11.9	45.3

		57.24			
S			12.3	44.9	
S = ℄ 1.5	2 Ribbon Conc Or Neg Wide		12.45	44.79	✓
	3+30				
-0.2 = ℄ 3' Conc Walk			8.48	48.76	✓
S			8.5	48.7	
cb			7.8	49.4	
1/4			7.9	49.3	
℄			7.6	49.6	
1/4			7.5	49.7	
+3			7.4	49.8	
+8			5.2	52.0	
cb			5.0	52.2	
N			4.7	52.5	
	3+42				
N-0.2 = ℄ 4' Conc Walk			3.04	54.20	✓
N			3.8	53.4	
	3+53				
N			2.4	54.8	
cb			2.8	54.4	

		57.24			
1/4			3.6	53.6	
℄			3.7	53.5	
1/4			4.0	53.2	
cb			3.4	53.8	
S			4.5	52.7	
S+0.5 = N'ly 6" Conc Wall			4.25	52.99	✓
	3+71				
S = ℄ 3' Conc Walk			2.17	55.07	✓
	3+75				
S			1.2	56.0	
cb			1.1	56.1	
1/4			1.1	56.1	
℄			0.9	56.3	
1/4			0.8	56.4	
+5			1.0	56.2	
cb			0.0	57.2	
N			+0.3	57.5	
TP	11.03	68.16	0.11	57.13	

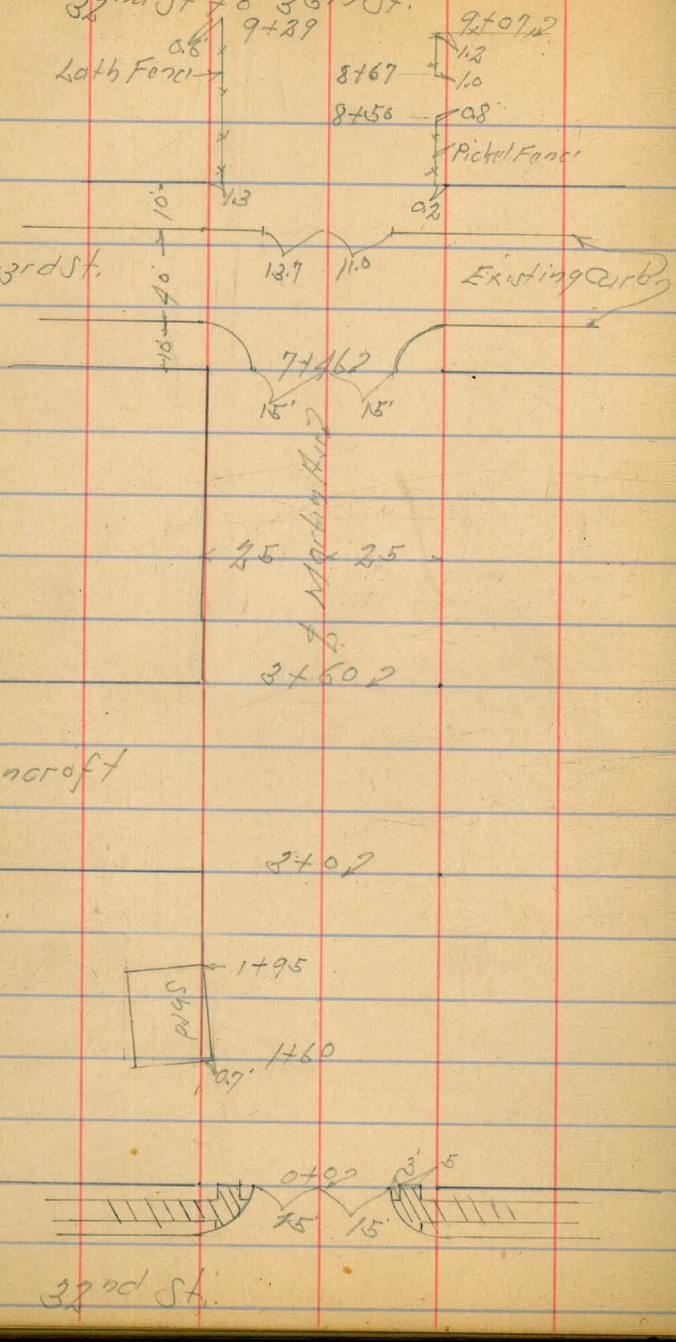
Xolle Ave

68.16		
4+0		
N	8.2	60.0
cb	8.1	60.1
+5	8.9	59.2
1/4	9.1	59.1
℄	9.2	59.0
1/4	9.4	58.8
cb	9.4	58.8
S	8.8	59.4
4+19		
S	7.7	60.5
cb	7.5	60.7
1/4	7.8	60.4
℄	7.6	60.6
1/4	7.8	60.4
cb	7.2	61.0
N	7.3	60.9
N = ℄ 3' Conc Walk	6.96	61.20

68.16		
4+64		
N	4.7	63.5
+0.4 = ℄ 4' Conc Walk	4.75	63.41
cb	5.5	62.7
1/4	5.6	62.6
℄	5.3	62.9
1/4	5.6	62.6
cb	5.5	62.7
S	5.4	62.8
5+0		
S	4.1	64.1
cb	4.4	63.8
1/4	4.1	64.1
℄	3.7	64.5
1/4	3.9	64.3
cb	3.4	64.8
N	3.0	65.2
5+23		
N+0.2 = ℄ 4' Conc Walk	1.16	67.00

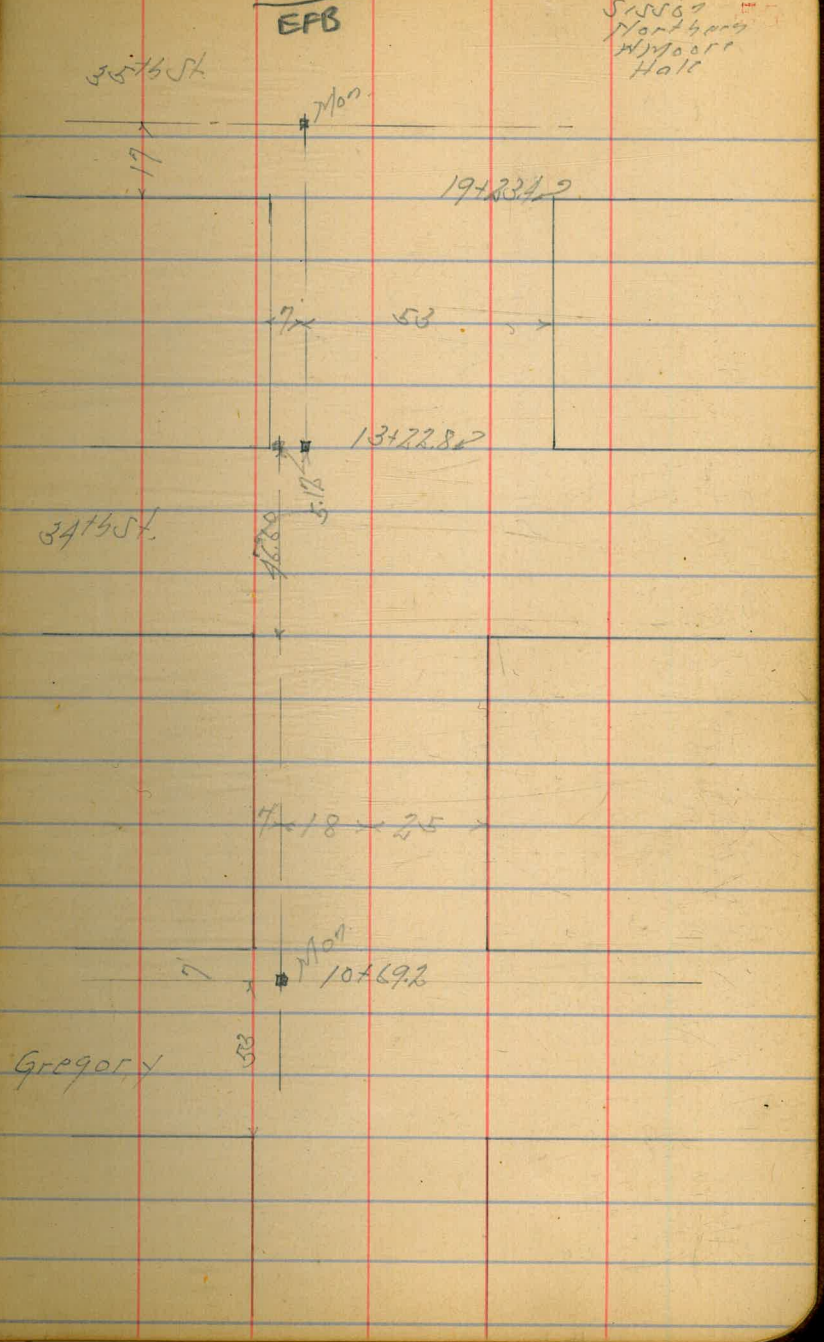
		68.16			
	5+50				
N			+0.3	68.5	
Cb			0.3	67.9	
1/4			1.2	67.0	
℄			1.3	66.9	
1/4			1.8	66.4	
Cb			2.0	66.2	
S			1.9	66.3	
TP	8.38	75.91	0.63	67.53	
		6+00.30 = WL 35' 1/2 St			
S			7.6	68.3	
Cb			7.5	68.4	
1/4			7.0	68.9	
℄			6.8	69.1	
1/4			6.8	69.1	
+6			7.0	68.9	
Cb			6.0	69.9	
N			6.3	69.6	
BM			7.48	68.43	SE Top Hyd Ocean View Blvd +35' 68.38

Cross Section Martin Ave.
32nd St to 35th St.



INDEXED
EFB

Oct. 7-10
Survey
Northern
Hillmore
Hall



Cross Section Martin Ave
32nd St to 35th St

Notes Reduced & Put on New Profile
10-17-40 CBH

1+0					
0+70					
TP	0.25	36.16	12.46	35.91	
0+57	23 Lt of ℄ = 24" Pepper Tree				
0+35					35.2 12.8 40
0+0 = F.L 32nd St					
TP	0.09	48.37	12.48	48.28	
B.M	0.36	60.76		60.40	S.W. Top Hyd Ocean Blvd & 32nd St.

	N Lt = N				℄		S Rt = S	
	28.8	28.2	25.4	28.1	28.2	29.4	30.0	30.8
	7.4 25	8.0 11	10.8 10	8.1 9	8.0	6.8 14	6.2 15	5.4 25
	32.7	31.9	30.4	31.4	31.7	32.9	33.4	34.6
	3.5 25	4.3 10	5.8 9	4.8 8	4.5	3.3 15	2.8 16	1.6 25
					36.16			
	35.7	36.2	35.6	33.5	35.7	35.9	36.4	36.4
	12.7 25	12.2 16	12.8 9	14.9 8	12.7 7	12.5	12.0 16	12.0 25
	39.7	39.34	38.4	38.3	38.3	38.87	39.16	38.7
	8.7 25	9.03 15 = Cb Top	10.0 15	10.1	10.1 15	9.50 15 = Cb Top	9.21 23 = Sh Walk	9.2 25
					48.37			

							Lt		℄		Rt			
2+65						23.0	20.9	19.5	14.8	12.4	13.4	12.9	13.7	12.1
						0.8	2.9	4.3	9.0	11.4	10.4	10.9	10.1	11.7
						25	20	11		3	4	16	25	30
2+30						24.2	21.6	20.6	17.4	14.6	17.0	15.8	16.4	16.4
						+0.4	2.2	3.2	6.4	9.2	6.8	8.0	7.4	7.4
						25	20	11		1	2	18	19	25
2+0						23.0	19.1	17.9	18.8	18.7	21.1			
						0.8	4.7	5.9	5.0	5.1	2.7			
						25	3	2		17	25			
1+62						23.2	22.6	19.90	22.4	21.9	22.3	23.4	23.7	
						0.6	1.2	3.87	1.4	1.9	1.5	0.4	0.1	
						25	14	13	12		17	18	25	
								13 = Fl+14" Steel Pipe F.L.						
TP	0.11	23.77	12.50	23.66						23.77				
1+39						25.2	24.7	21.2	24.6	23.8	24.2	25.8	26.4	
						11.0	11.5	15.0	11.6	12.4	12.0	10.4	9.8	
						25	15	14	12		15	17	25	
		36.16						14 = Fl+14" Steel Pipe F.L.		36.16				

Martin Air

3+78

3+60 = FL Bancroft

3+56

3+30

TP 3.17 14.54 12.40 11.37

3+0 = HL Bancroft

23.77

Lt. Ø Rt.

7.9	8.9	7.6	6.2	6.4	6.2
6.6 / 35	6.5 / 25	6.9	8.3 / 9	8.1 / 25	8.3 / 35
8.4	8.5	8.9	7.9	7.2	7.0
6.1 / 35	6.0 / 25	5.6	6.6 / 9	7.3 / 25	7.5 / 35
9.6	9.4	10.3	9.0	10.1	10.5	10.5
4.9 / 35	5.1 / 25	4.2	5.5 / 12	4.4 / 17	4.0 / 25	4.0 / 35
10.4	10.1	10.1	9.5	10.4	10.4	9.0
4.1 / 35	4.1 / 25	4.4	5.0 / 3	4.1 / 5	4.1 / 25	5.5 / 35

14.54

16.0	14.8	11.6	10.6	11.6	11.4	10.4
7.8 / 25	9.0 / 10	13.2	12.2 / 3	12.2 / 5	12.4 / 25	13.4 / 35

23.97

5+92 = Wly Wire Fence 13.1 S of NL

5+86

5+50

5+03

4+50

4+0

3+83

14.54

	Lt		℄		Rt.	
						11.31
						3.23
						25.3 = Ely 6" Conc Wall
5+50	10.5	10.5	10.8	10.1	10.2	11.21
	4.0	4.0	3.7	4.4	4.3	3.33
	35	25	17		25	25 = Top Conc Wall
5+03	9.6	9.4	9.3	9.3	11.27	
	4.9	5.1	5.2	5.2	3.27	
	35	25		25	25 = Wly 6" Conc Wall	
4+50	9.9	9.8	9.8	9.6	9.5	
	4.6	4.7	4.7	4.9	5.0	
	35	25		25	35	
4+0	10.1	10.0	10.0	9.9	9.7	
	4.4	4.5	4.5	4.6	4.8	
	35	25		25	35	
3+83	10.5	10.3	9.9	9.8	9.6	
	4.0	4.2	4.6	4.7	4.9	
	35	25		25	35	

14.54

Martin Ave

7+46 = W.L 33rd St.

7+41.4 = Fly Wire Fence 10.0 S of W.L

7+0

6+68 = Fly Wire Fence 11.5 S of W.L

6+56

6+50 = Fly Wire Fence 12.0 S of W.L

6+46

6+05

6+0

14.54

Lt | ℄ | Rt

9.9 | 9.97 | 9.5 | 9.6 | 9.4 | 9.81 | 9.9
4.6 | 4.57 | 5.0 | 4.9 | 5.1 | 4.73 | 4.6
15 | 15-Cb Top | 15 | | 15 | 15-Cb Top | 15

10.4 | 10.3 | 10.0 | 9.8 | 10.3
4.1 | 4.2 | 4.5 | 4.7 | 4.2
15 | 13 | 12 | | 15

10.9
3.6
36.7-℄ Do Gar.
Conc Floor

11.2 | 10.9 | 11.0 | 11.11
3.3 | 3.6 | 3.5 | 3.43
15 | | 15 | 26.1-℄ Garage Conc Floor

11.34
3.20
26.1-℄ Garage Conc Floor

11.3 | 10.9 | 10.9
3.3 | 3.6 | 3.6
15 | | 15

14.54

8+50

8+06 = E.L. 33rd St

7+96

7+76 = L 33rd St.

7+56 = W Cb 33rd St

7+54 = Power Pole 0.2' N of S.L.

TP 4.85 14.52 4.87 9.67

14.54

Lt Rt

9.9 9.5 9.5 9.71
4.6 5.0 5.0 4.81
25 25 25

10.1 9.7 9.8
4.4 4.8 4.7
25 25

10.07 9.5 9.99 93 9.4 9.4 9.92 9.1 9.90
4.45 5.0 4.53 5.2 5.1 5.1 4.60 5.4 4.67
25 25 13.7 13.7 11 11 25 25
25-Cb Top Cb Top Cb Top Cb Top

9.6 9.6 9.5
4.9 4.9 5.0
25 25

10.01 9.3 9.2 9.3 9.1 9.1 9.84
4.51 5.2 5.3 5.2 5.4 5.4 4.68
25 Cb Top 25 15 15 25 25-Cb Top

14.52

Martin Ave.

		Lt		℄		Rt	
9+62						9.58 4.94 30.3 = ℄ Garage Conc Floor	
9+50		9.5 5.0 25'	9.5 5.0 13'	9.5 5.0	9.7 4.8 5	9.0 5.5 15'	9.3 5.2 25'
9+40		9.3 5.2 24.6 = ℄ Do Gar. Dirt Floor					
9+0		9.8 4.7 25'	9.2 5.3 13'	9.5 5.0	10.1 4.4 5'	9.2 5.3 15	9.3 5.2 25'
8+77		10.00 4.52 24 = ℄ 3' Conc Walk					
8+62						9.75 4.77 30.6 = ℄ Garage Conc Floor	
	14.52						

						Lt		℄		Rt	
11+33										9.19 5.17 29.7 = ℄ Garage Conc Floor	
11+0						9.5 4.9 25	9.4 5.0 12	9.5 4.9	8.8 5.6 9	8.9 5.5 25	
10+66.2 = E L Gregory							9.5 4.9 25	9.3 5.1		8.9 5.5 25	
10+41.2 = ℄ Gregory							9.5 4.9 25	9.1 5.3		8.8 5.6 25	
TP	3.31	14.36	3.47	11.05	S.E. Top Fire Hyd Martin + Gregory			14.36			
10+16.2 = W L Gregory						9.5 5.0 25	9.4 5.1 12	9.1 5.4	9.1 5.4 15	8.8 5.7 25	
10+14 = Power Pole 7.3 N of S.L.											
10+0						9.6 4.9 25	9.5 5.0 12	9.3 5.2 11	9.2 5.3	9.3 5.2 6	8.8 5.7 15	9.0 5.5 25
		14.52									

Martin Ave

13+22.8 - E.L. 34th St

13+99.5

13+85 = Power Pole 22. 50 of S.L.

13+76.2 - W.L. 34th St

13+40

13+0

11+50

14-36

Lt | ℄ | Rt

Lt		℄		Rt
	11.6	11.6		11.3
	2.8 / 30	2.8		3.1 / 30
10.7	10.7	10.8	10.8	10.8
3.7 / 35	3.7 / 20	3.6	3.6 / 25	3.6 / 40
	10.4	10.4		9.8
	4.0 / 25	4.0		4.6 / 25
9.9	10.3	9.7	9.8	9.9	9.5	9.2
4.5 / 25	4.1 / 11	4.7 / 9	4.6	4.5 / 15	4.9 / 13	5.2 / 25
10.1	10.0	9.6	9.6	9.7	9.0	9.2
4.3 / 25	4.4 / 12	4.8 / 10	4.8	4.7 / 4	5.4 / 12	5.2 / 25
	9.6	9.6	9.6	9.0	8.9
	4.8 / 25	4.8 / 11	4.8	5.4 / 18	5.5 / 25

14-36

15+0

14+90 = Sly Power Pole 4.3' N of S.L.

14+64 = Sly 35' Pepper Tree 3' N of S.L.

14+57

14+50

14+10 = Sly 3' Pepper Tree 3' N of S.L.

14+0

13+92 = Sly 3' Pepper Tree 3' N of S.L.

TP 8.38 22.51 0.23 14.13

13+74 = Sly 2.5' Pepper Tree 3' N of S.L.

13+50

13+44 = Sly 2.5' Pepper Tree 2' N of S.L.

14.36

Lt. Δ Rt.

19.6 18.8 19.4 19.3 19.2
2.9 3.7 3.1 3.2 3.3
30 12 15 30

16.53
5.98
36.7 = 54.5 Concrete

16.1 16.5 16.3 16.5 16.5 16.4
6.4 6.0 6.2 6.0 6.0 6.1
30 16 11 18 30

15.2 15.0 14.5 14.6 14.5 14.6 14.76
7.3 7.5 8.0 7.9 8.0 7.9 7.75
30 18 13 8 30 36 = 54.4 Brick Wall

22.51

13.2 12.8 12.6 12.6 12.1
4.2 4.6 4.8 4.8 5.3
30 16 15 30

14.36

Martin Ave

TP	11.57	45.93	0.11	34.36
16+0				
15+75				
15+55				
15+38				
TP	12.27	34.47	0.31	22.20
15+25				

15+04 = Sly 2' Tree 4' N of S.L.

22.51

	Lt		℄			Rt	
34.2	32.9	32.1	32.1	32.4	32.0	31.5	29.8
0.3	1.6	2.4	2.4	2.1	2.5	3.0	4.7
30'	8'	5'		14	25	30	45
28.3	27.8	27.3	28.7	29.1	27.9	28.1	
6.2	6.7	6.2	5.8	5.4	6.6	6.4	
30'	20	10'		9'	25	30'	
25.18	25.8	25.1	25.7	24.7	25.5		
8.29	8.7	9.4	8.8	9.8	9.0		
29.6 = 2.3' Conc Walk	21	11		20	30'		
25.80	22.4	22.9	22.9	23.2	22.6	23.2	
8.67	12.1	11.6	11.6	11.3	11.9	11.3	
30' = top 1" Conc Wall	30' = base Conc Wall	19'	11		19'	30'	

34.47

21.3	21.5	21.2	21.5	21.3	21.8
1.2	1.0	1.3	1.0	1.2	0.7
30'	18	9'		18	30'

22.51

	Lt.			℄			Rt.		
17+0	48.6	46.9	43.1	39.8	38.4	38.4	37.6	36.4	34.6
	+2.7	+1.0	2.8	6.1	7.5	7.5	8.3	9.5	11.3
	45'	30'	6'		3'	15	25'	30'	45'
16+98 = Power Pole 5' N of SL									
16+89						35.91		35.82	
						10.02		10.11	
						32' = ℄ 16.6' Conc Apron		41' = ℄ Garage Conc Floor	
16+84	45.6	44.2	41.4	38.6	37.3	37.3	36.0	36.30	
	0.3	1.7	4.5	7.3	8.6	8.6	9.9	9.63	
	30'	20	6'		2'	11	29.4	29.4 = Fly 6" Conc Wall	
16+64						35.84		34.23	
						10.09		11.70	
						29.3 = ℄ 5' Conc Landing		32.5 = ℄ 3.5' Conc Walk	
16+48	43.7	42.5	39.2	35.9		35.4	35.1	35.58	
	2.2	3.4	6.7	10.0		10.5	10.8	10.35	
	45'	30'	6'			20'	29.6	29.6 = Fly 6" Conc Wall Top	
16+25	40.3	39.0	36.8	34.3		34.6	34.0	31.4	
	5.6	6.9	9.1	11.6		11.3	11.9	14.5	
	45'	30'	8'			28	30'	45	

45.93

45.93

Martin Ave

						Lt		℄		Rt
19+23.4 = WL 35th St.						53.1	51.1	48.8	47.5	46.4
						+0.8	1.2	3.5	4.8	5.9
						45	30	15	10	
18+90						50.4	47.9	47.0	44.7	43.7
						1.9	4.4	5.3	7.6	8.6
						45	30	24	8	4
18+50						50.1	48.1	46.2	43.9	42.6
						2.2	4.2	6.1	8.4	9.7
						45	30	22	4	2
18+0						49.5	47.5	46.2	43.7	41.6
						2.8	4.8	6.1	8.6	10.7
						45	30	21	3	
17+75						49.7	47.6	45.7	44.0	41.1
						2.6	4.7	6.6	8.3	11.2
						45	30	20	3	
17+34						50.0	47.6	45.2	44.0	40.5
						2.3	4.7	7.1	8.3	11.8
						45	30	20	3	
TP	8.02	52.31	1.64	44.29						
		45.93								

53.1	51.1	48.8	47.5	46.4	45.6	43.5	42.0	39.5
+0.8	1.2	3.5	4.8	5.9	6.7	8.8	10.3	12.8
45	30	15	10		10	21	30	45
50.4	47.9	47.0	44.7	43.7	43.5	43.1	40.7	39.5	37.0
1.9	4.4	5.3	7.6	8.6	8.8	9.2	11.6	12.8	15.3
45	30	24	8	4		13	21	30	45
50.1	48.1	46.2	43.9	42.6	42.5	42.0	39.3	37.9	35.3
2.2	4.2	6.1	8.4	9.7	9.8	10.3	13.0	14.4	17.0
45	30	22	4	2		15	21	30	45
49.5	47.5	46.2	43.7	41.6	41.3	39.7	38.5	36.3
2.8	4.8	6.1	8.6	10.7	11.0	12.6	13.8	16.0
45	30	21	3		17	23	30	45
49.7	47.6	45.7	44.0	41.1	40.3	38.0	35.9
2.6	4.7	6.6	8.3	11.2	12.0	14.3	16.4
45	30	20	3		17	30	45
50.0	47.6	45.2	44.0	40.5	39.2	36.8	35.7
2.3	4.7	7.1	8.3	11.8	13.1	15.5	16.6
45	30	20	3		18	30	43

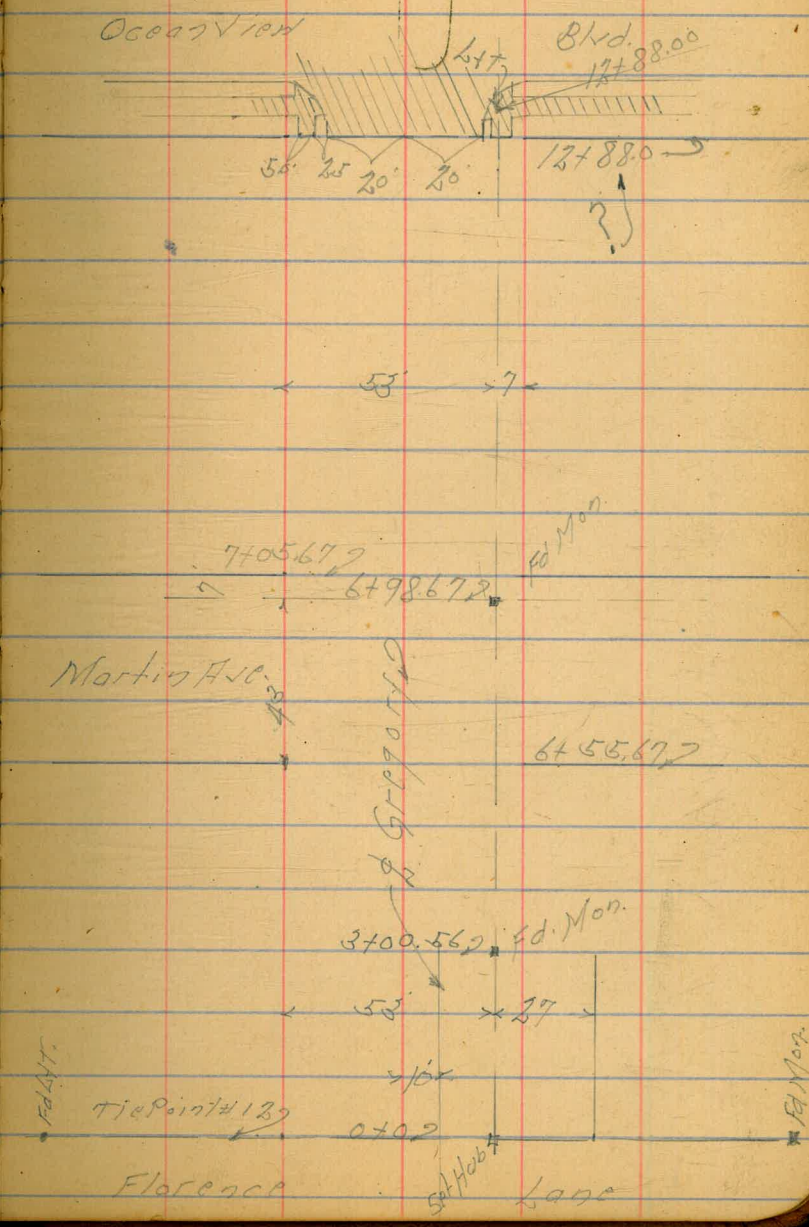
4.6 Conc Landing

52.31

BM			6.80	68.46	SE Top Hyd Ocean View +35 [illegible] 68.38
TP	12.49	75.26	0.22	62.77	
TP	11.04	62.99	0.36	51.95	
BM			1.56	50.75	Mon 13 L 35 [illegible] N 7 Line Martin
		52.31			

Cross Section Gregory St.
Florence Lane to Ocean View

Oct 10-40
Sisson
Northern
W Moore
Hale



Cross Section Gregory St.
Florence Lane to Ocean View

INDEXED
EFB

						Lt = W			℄			Rt = E
2+50						6.8	6.6	7.1	7.1	6.7	7.1	7.0	6.9
						6.0 40	6.2 32	5.7 28	5.7 13	6.1 10	5.7 7	5.8	5.9 40
2+0					6.6	6.4	6.9	7.0	6.3	7.1	6.7		6.6
					6.2 40	6.4 32	5.9 27	5.8 15	6.5 12	5.7 9	6.1		6.2 40
1+50					6.5	6.3	6.7	6.9	6.2	7.0	6.6		6.3
					6.3 40	6.5 32	6.1 28	5.9 14	6.6 12	5.8 10	6.2		6.5 40
1+0						6.0	6.7	6.8	6.1	6.7	6.4		6.1
						6.8 40	6.1 32	6.0 16	6.7 14	6.1 12	6.4		6.7 40
0+50						6.3		6.5	5.9	6.4	6.1		6.0
						6.5 40		6.3 18	6.9 16	6.4 14	6.7		6.8 40
0+0 = HL Florence Lane									6.0		6.2		5.9
									6.8 40		6.6		6.9 40
BM.	1.73	12.78		11.05	SE Top Hyd Martin + Gregory						12.78		

Notes Red 10-16-40 C.B.H.
New Profile 10/19-40

4+86

4+75

4+56 = Power Pole 7.3 E of W.L. ✓

4+50

4+0

3+57 = Power Pole 7.3 E of W.L. ✓

3+50

3+0

12.78

	Lt			℄			Rt		
✓	8.50								
	4.28								
	26.8								
	℄ 2.5								
	Work 070								
	8.2	8.3	8.1	8.1	8.6	9.5	7.2	8.9	9.0
	4.6	4.5	4.7	4.7	4.2	3.3	5.6	3.9	3.8
	30	13	8		10	12	17	25	30
	8.2	8.2	8.0	8.2	8.5	8.8	8.7	7.0	8.9	8.8
	4.6	4.6	4.8	4.6	4.3	4.0	4.1	5.7	3.9	4.0
	30	9	8		10	11	15	18	21	30
	8.0	8.4	7.7	8.0	8.0	8.4	6.9	8.3	8.6
	4.8	4.4	5.1	4.8	4.8	4.4	5.9	4.5	4.2
	30	20	18	16		14	17	20	30
	7.9	8.2	7.5	8.1	8.0	8.1	6.9	8.2	8.0
	4.9	4.6	5.3	4.7	4.8	4.7	5.9	4.6	4.8
	30	20	16	14		10	16	19	30
	7.6	7.1	7.7	7.4	6.3	6.7	7.8	7.7	
	5.2	5.7	5.1	5.4	6.5	5.1	5.0	5.1	
	40	28	10 = ℄ H		4	8	20 = E Lt of H	40	

12.78

Gregory St.

	Lt		℄		Rt.			
6+31.5	9.01 3.77 30.6 = ℄ 3' Conc Walk							
6+0	8.5 4.3 30	9.0 3.8 15	8.6 4.2 8	8.5 4.3	8.6 4.2 8	8.8 4.0 12	8.4 4.4 16	8.6 4.2 30
5+56 = Nly Picket Fence 0.6' W of E.L = Pow Pole 7.3' E of W.L.								
5+50	8.7 4.1 30	8.7 4.1 15	8.4 4.4		8.5 4.3 30			
5+06 = Sly Picket Fence 0.9' W of E.L								
5+03	8.7 4.1 30	8.4 4.4 10	8.2 4.6	8.6 4.2 10	9.4 3.4 15	8.8 4.0 20	8.9 3.9 30	8.9 3.8 50
4+98				8.2 4.6	8.5 4.3 10	9.5 3.3 13	7.9 4.9 18	7.5 5.3 30	7.7 5.1 50 = Bottom Ditch
4+93				8.1 4.7	8.6 4.2 10	98 3.0 12	7.3 5.5 18	7.4 5.4 26	8.9 3.9 30	9.4 3.4 50

12.78

12.78

						Lt				℄			Rt		
8+72 = Nly Wire Fence 1.8 E of W.L. ✓															
8+63 = Power Pole 4.0' W of E.L. ✓															
8+50						10.6	10.7	10.3	10.8	10.4	10.4	10.2	10.2	10.6	10.2
						5.3	5.2	5.6	5.1	5.5	5.5	5.7	5.7	5.3	5.7
						30'	22'	15'	6'	3'		13	14	16	30'
8+44 = Sly Wire Fence 2.0' E of W.L. ✓															
8+0						10.2		10.1	9.7	10.6	10.1	10.1	10.3	9.9	
						5.7		5.8	6.2	5.3	5.8	5.8	5.6	6.0	
						30		21'	19	4'		18	23	30'	
7+83 = Power Pole 7.1 E of W.L. ✓															
7+50						9.9		9.8	9.3	10.4	10.0		9.7		
						6.0		6.1	6.6	5.5	5.9		6.2		
						30'		22'	20	4'			30'		
7+05.67 = N.L. Martin								9.6		9.5			9.5		
								6.3		6.4			6.4		
								30'					30'		
TP	4.86	15.91	1.73	11.05						15.91					
6+55.67 = S.L. Martin								8.9		8.7			9.1		
								3.9		4.1			3.7		
								30					30'		
6+37.5													9.03		✓
													3.75		
													29.8 = 23' Wall		
		12.78								12.78					

Gregory St.

11+30 = Nly Picket Fence 2.0' W of E.L. ✓

11+0

10+81 = Power Pole 7.2 E of W.L. ✓ ✓

10+55 = Sly Picket Fence 4.5 W of E.L. = Nly Picket Fence 0.7 E of W.L. ✓

10+50

10+23

10+06 = Sly Picket Fence 0.6 E of W.L. ✓

10+0

9+81 = Power Pole 7.3' E of W.L. ✓

9+50

9+0

8+80 = Power Pole 7.0 E of W.L. ✓

15.91

Lt		℄		Rt	
11.8 4.1 30'	11.6 4.3 15'	11.6 4.3	11.7 4.2 12'		11.9 4.0 30'
11.3 4.6 30	11.1 4.8 14'	11.2 4.7	11.0 4.9 16	11.3 4.6 18'	11.2 4.7 30'
11.70 4.21 29 - 235 Conc Walk					
11.3 4.6 30'	11.1 4.8 15'	11.0 4.9	10.9 5.0 13	11.1 4.8 15'	10.8 5.1 30'
11.1 4.8 30	11.2 4.7 25'	10.9 5.0 18'	10.9 5.0	10.8 5.1 13'	11.1 4.8 18'	10.7 5.2 30'
11.0 4.9 30'		10.7 5.2	10.7 5.2 13	11.1 4.8 18	11.0 4.9 27	10.7 5.2 30'

15.91

					Lt		℄		Rt		
12+81 = SL Ocean View Blvd					16.8 4.2 30	16.72 4.25 20 = Cb Top	16.24 4.73 20 Gut.	16.70 4.27	16.57 4.40 20 G	17.29 3.68 20 = Cb	17.7 3.3 30
12+70					12.4 8.6 40	12.5 8.5 30	16.6 4.4 15	16.1 4.9	16.4 4.6 18	13.1 7.9 30	13.0 8.0 40
TP	6.17	20.97	1.11	14.80			20.97				
12+50					12.2 3.7 40	12.3 3.6 30	13.3 2.6 20	15.6 0.2 15	15.1 0.8	15.1 0.8 18	12.9 3.0 25	12.7 3.2 30	12.9 3.0 40
12+25					11.9 4.0 40	11.9 4.0 30	12.3 3.6 20	13.9 2.0 10	13.6 2.3	13.5 2.4 15	12.4 3.5 25	12.7 3.2 30
12+0					12.0 3.9 30	12.2 3.7 20	12.3 3.6 10	12.4 3.5	12.5 3.4 15	12.1 3.8 30	
11+80 = Pow. Pole 7.3 E of WL = Sly Wire Fence 1.0' WE Line											
11+50					11.8 4.1 30		11.7 4.2 10	11.7 4.2	12.0 3.9 20	11.8 4.1 30	
		15.91					15.91				

Lt. Ctr Rt.

BM 3.74 17.22 SE Top Hyd Ocean View Blvd 33rd St 17.22

12+95 = S Cb Line Ocean View Blvd

15.97 2097

16.74 16.05 ✓ 16.16 16.29 ✓ 16.44 16.54 ✓ 17.22

4.23 4.92 4.81 4.68 4.53 4.13 3.75

30 Cb Top 30 on Pav 20 20 30 on Pav 30 Cb Top

15.91 ?

Sample Granite from
Edmonds June 28, 16
Clay. 10%

Rock

Date May 29. 1915

Mc alpine's crusher in Mission Valley

Rock	.85
Through 5/16 screen	.145
Dust	.005
	1.000

Percentage of Dust in Material passing 5/16" Screen 3.6%

Percentage of Material passing 5/16" Screen and retained on 10 Mesh 78%

ENGINEERING DEPARTMENT,
CITY OF EAST SAN DIEGO.
CALIFORNIA.

See F.B.
? 1408 or 1423
Stadia Survey 50 Bank Cutoff Slough
" " No Bank - See Lewis Book

5+68.28
55
6 23

Mogul - SB 2080

2 Bolts - for magneto 1" long
1 New Sprocket for rear wheel
8-16 - H.P.

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