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13

DIETZGEN

TRADE MARK

ENGINEERS'

FIELD BOOK

No. 403

T.P. 13

T. P. BOOK #13 1 OF 7

ITEM DESCRIPTION PAGE

I. Alise Street I.

Seaside Street to

36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be 30.6+(20—16)÷2 or 2 ft. added to 30.6 =32.6. For slopes of 1 on 1½ see inside of back cover.

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.62 509.63

127.07
256.77

MICROFILMED

APR 5 1965

(FIRST SEE INDEX-I)

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LOTUS ST.	3	✓
VOLTAIRE ST.	4-5	✓
MUIR ST.	5-6	✓
LONG BRANCH AVE.	7-8	
BRIGHTON AVE	9-10	
CAPE MAY ST.	11-13	
SARATOGA ST.	13-15	
SANTA MONICA ST.	15-17	
NEWPORT ST.	17-19	✓
NIAGARA ST.	19-20	
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DEL MONTE AVE.	22-23	
SANTA CRUZ AVE.	24-25	
CORONADO AVE.	25-26	
DEL MAR AVE.	27-28	
ORCHARD AVE.	28-29	
PESCADERO AVE.	30-31	
BERMUDA AVE.	31-32	
POINT LOMA AVE.	31-32	✓

(FROM SPRAY ST. TO SANTA BARBARA ST. ONLY)

OTHER TIE POINTS & INFORMATION FOR THE ABOVE STREETS & OTHER STREETS ON OPPOSITE PAGE →

← ✓ (ALSO SEE INDEX-II)

□=hub
⊙=Cop Tack
7" pts

Park Cor.

Mon.

Mon.

Reset 6"x6"x8" A.E.B.

10"x10"x24" TRP

Etiwanda

Gastellar St

Castellar St

Seaside

C.T.

C.T.

Produced from Mon.

Mon.

South 493.94 to 7th Voltaire

Sts St

493.95

614'

614

614

614'

St

St

St

284

284

284

214'

214'

214'

60.

494.02

Eliwanda St

494.03

494.11

60 Seaside St

494.12

107'

103.32

Greene St

C.T.

229.12

229.11

50

50

50

50

Castellar St

Larkspur St

Froude St

229'

751.25

Greene St

614.15

614.11

614.06

Lots

228.99

229.05

St

Ebers

614.09

□ = Hub
○ = cop Tack scrk
7' pts

10 M.

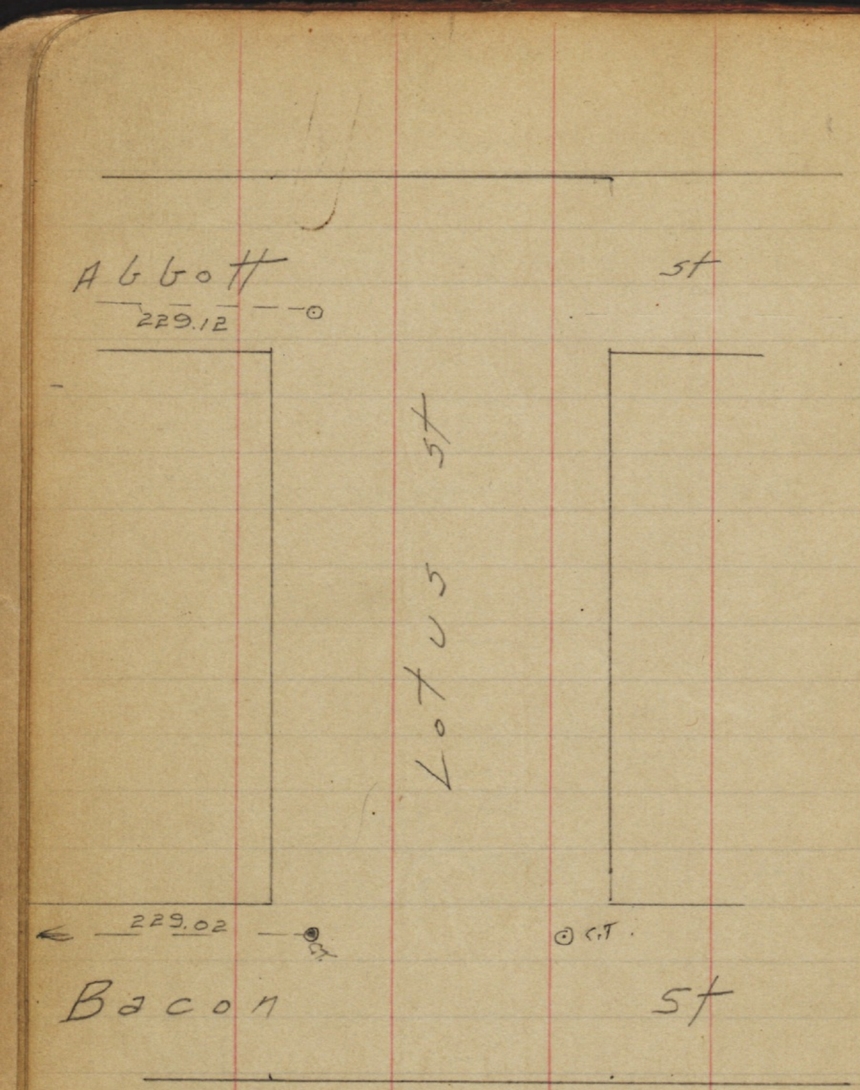
Bolinas st
493.86
493.87
493.94
Soto st
493.95
Etiwanda st
494.02
494.03
Scaside st
494.11
494.12
494.15
Froude st
464.45
229.09

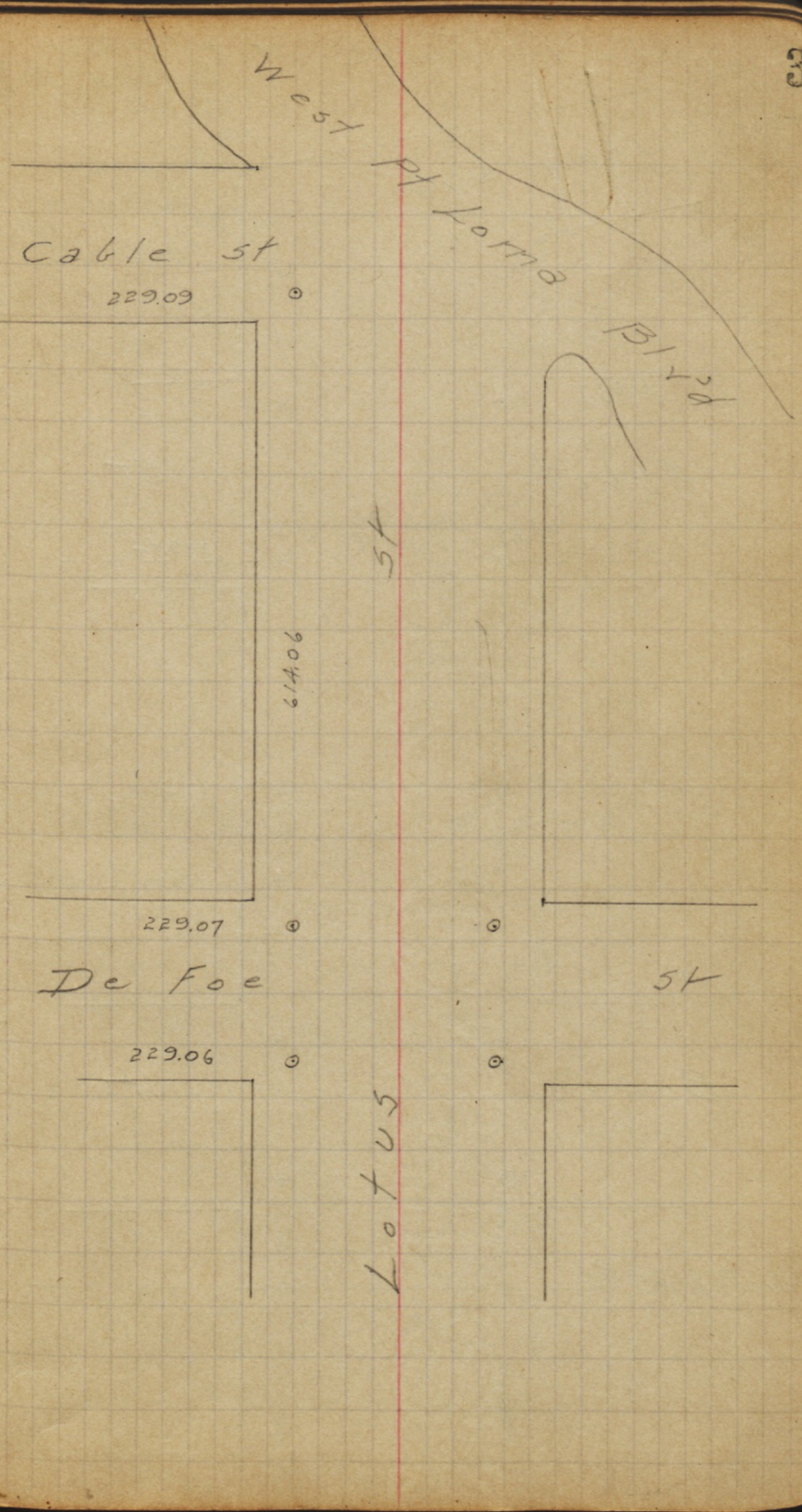
60'
214'
284'
107'
614'
229'
Etiwanda
Greene
Volta aire
Scaside
Guizot
C.T.
L.T.
239.11
614.15 To Pt Ellers.
Lot 130
46'
7'

284
270
130
1740

277
130
147

70
00
130


Abbott
229.12
St
Lotus St
229.02
C.T.
Bacon
St


West Point Loma Blvd
Cable St
229.09
St
614.06
229.07
De Foe
St
229.06
Lotus

Voltaire St

o=Cop Tack
□=Rd'w'd Hub
7' PKs

West pt Loma Blvd

Muir St

228.97

Abbott St

228.9~ C.T. Replaced 10-15-37 C.T. 229.12~

614.28

614.28

C.T. C.T.

Bacon St

W.L.P.L 205

103.36 50' 103.36

508.21 508.21

Voltaire St

508.21

228.94

Cable

228.92

613.98

228.93

De Foe St

228.94

614.11

508.21

OUT

St

OUT 229.09

613.99

229.07

229.06

614.07

4

o = cop Tack
□ = Rdwd Nail

Voltaire st

80

228.97

614.07

229.07

Ebers st

228.95

229.07

614.00

7'

466.96

error Corrected
8-19-38.
Moore

215.94

229.09 To ℄ of Lotus

Froude st

211.90

197.25

104.22

104.22

108.07

84.46

20.31

464.45 To ℄ of Greene

508.13

203.18

Guizot st

203.20

Muir Street

W pt Loma Blvd.

7' p/s

265.02

228.97

466 ft

229'

C.T. Replaced 10-15-37

228.95

614.19

660.15

Bacon st

228.97

611.59

229.03

229.01

611.69

Muir St.

611.59 611.64

229.09 228.94

Cable Street

229.08 228.92

614.11 614.17

229.04 228.93

De Foe St

229.10 228.94

614.04 614.04

229.03 St

Ebers

Muir St.

229.03 228.97

Ebers St

229.02 228.95

613.90 613.97

229.04 215.94

Froude St

229.03 211.90

611.92 612.00

228.98 203.18

Guizot St

228.95 203.20

6

o=cop Tack
⊡=Rdrd Hub
7' pts

Long Branch Ave

Spray st

229.04

Abbott

229.09

229.09
Bacon

cop. Tie in ^ cement of drop storm sewer

614.17

614.18

265.02' to N 7'pt Muir

st

229.00'

Chisel cut in stone

10 x 12 CT

st

Long Branch Ave

7'

229.09

265.00 to N 7'pt Muir st,
CT

Bacon st

229.11

611.63

CT
228.97

611.78

229.14

229.04

Cable st

229.18

Nail

Nail

229.08

614.08

614.12

229.11

614.11

229.04

De Foe st

Long Branch Ave

229.11 ⊡ C.T. ⊡ 229.04

De Foe St

229.15 ⊡ C.T. ⊡ 229.10

614.12 | 614.11

229.17 ⊡ C.T. Bd. ⊡ 229.03

Egers St

229.14 ⊡ ⊡ 229.02

613.96 | 613.98

229.04 ⊡ ⊡ 229.04

Froude 229.01 ⊡ C.T. Par. St

Long Branch Ave

229.04 ⊡ ⊡ 229.04

Froude St

229.01 ⊡ ⊡ 229.03

611.97 | 612.04

To Sou 7th Pt Brighton 275.04 ⊙ CT CT ⊙ 228.98

Guizot St

229.04 ⊙ CT CT ⊙ 228.95

Brighton Ave

o = cop Tack
□ = Rdwd Hub
7' pts

Spray St

313.54 ⊙ ⊡ 229.04

Abbott St

313.61 ⊙ ⊙ 229.09

313.54 ⊡ ⊙ 229.11

Bacon St

614.13

614.16

Brighton Ave

313.54 ⊙ 57 46 ⊙ 229.09

Bacon St

313.54 ⊡ ⊡ 229.11

313.48 ⊡ 1.85' ⊡ 229.14

613.51

611.69

Cable St

313.47 ⊡ 1.85' ⊡ 229.18

313.54 ⊡ 1.22' ⊡ 229.11

De Foe Sunset Cliffs Blvd St

613.48

614.12

Brighton Ave

313.49 — 1.22 — 229.11

De Foe Sub Sub Cliff St

313.54 — 1.22 — 229.15

613.26 — 613.97

C.T. — 10 — 0.42 — 229.17

313.49

Ebers St

0.42 — 229.14

313.50

613.53 — 614.00

313.49 — 229.04 St

Froude

Brighton

313.49 — 613.53 — 614.00 — 229.04

Froude St

313.55 — 611.95 — 229.01

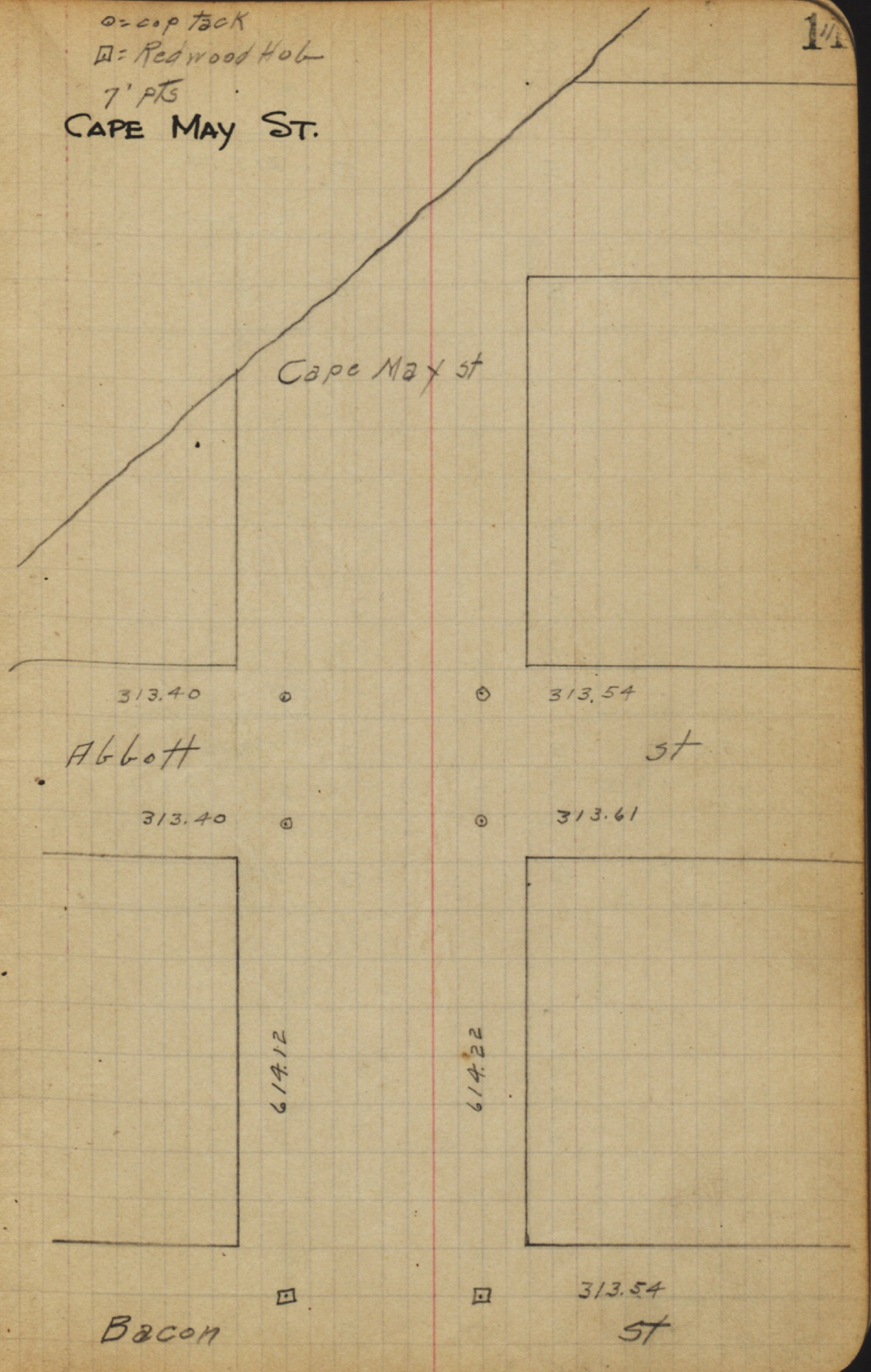
CT — 275.04

Guizot St

311.15 — 228.95

o = cop tack
□ = Redwood Hub
7' pts

CAPE MAY ST.



Cape May St

313.61 313.54

Bacon St

313.48 313.54

613.67 613.57

313.55 313.48

Cable St

313.56 313.47

613.51 613.51

De Foe 313.64 313.49 St

Cape May St

313.64 313.49

Sunset Cliffs Blvd St

De Foe

313.66 313.54

613.20 613.20

313.74 313.49

Ebers St

313.77 313.50

613.24 613.18

Froude St

Cape May St

313.99

Froude

St

313.49

612.08

612.06

313.97

CT

CT

313.55

Guizot

St

313.94

2.40

CT

2.40

311.15

⊙ = copper tack
□ = Redwood Hub
7' pts

1/3

INDEXED
JER
DEC 1 1954

Saratoga St

57' pt of Sta Monica

379.08

313.40

Abbott

St

313.08

313.40

614.06

614.12

313.25

313.61

Bacon

St

313.22

313.48

613.78

613.76

Saratoga St

313.38 — 613.78 — 613.76 — 313.55

Cable St

313.40 — 313.56

613.58 — 613.71

313.55 — 313.64

Sunset Cliffs Blvd

De Foe St

313.52 — 313.66

613.00 — 613.10

313.74

Ebers St

Saratoga

313.73 — 313.74

Ebers St

313.77 — 313.77

612.90 — 612.96

313.98 — 313.99

Froude St

612.45 — 612.42

313.80 — 313.97

Guizot St

2.40 — 2.40

313.94

Guizot

Saratoga

Santa Barbara

⊙ = copper Tack
⊡ = R'd'd Hub
7' pts

Santa Monica St

379.08

Abbott St

314.02 ⊙ ⊙ 313.08

614.11

613.99

313.92

Bacon St

313.25

313.90 ⊡ ⊡ 313.22

613.74

613.70

Santa Monica

313.73 613.74 313.38

Cable St

313.76 313.40

613.76 613.60

313.76

Sawtelle Blvd

De Foe St

313.72 313.52

613.11 613.02

313.55

313.73

Ebers St

Santa Monica

313.75 313.73

Ebers St

313.68 313.77

612.97 612.97

313.63 313.98

Froude St

Guizot St

2.20 2.20

Guizot

Santa Monica

C.T.

C.T.

Santa Barbara

○ = copper tack
□ = R'd'vd hub
7" pts

Abbott St

C.T.

31402

Newport ST.

613.97

613.94

313.95

314.01

313.92

313.89

Tie sh.

Bacon St

314.02

313.90

90°00'

90°00'

N.G.

613.75

613.72

613.90

90°00'30"

313.67

313.73

313.78

Tie sh.

Cable St

Newport St

313.67 313.73

Cable St

313.64 313.75

313.23 313.76

Sunset Cliffs Blvd

De Foe St

313.23 313.72

612.95 612.96

312.89 313.75

Ebers St

Newport St

312.89 313.75

Ebers St

312.90 313.68

612.99 613.00

312.43 313.63

Froude St

C.T.

Guizot St

Guizot

Newport

C.T.

Santa Barbara

C.T.

Abbott St

○ = Copper tack
▣ = Redwood Hub
7 Pts

Niagara St

314.00

314.01

Oct 120

Bacon St

314.01

314.02

Oct 120

613.79

613.78

313.99

313.67

Oct 120

Cable St

313.99

313.64

Oct 120

613.90

613.78

Niagara St

613.90

613.79

314.03

Sonora Cliffs Blvd

De Foe

313.23

St

314.04

313.23

612.89

612.84

314.08

312.89

Ebers

St

314.10

312.90

613.00

613.00

314.22

Froude

312.43

St

Niagara St

314.22

Froude

312.43

St

Guizot

Santa Barbara

Narragansett st

313.27

314.00

Bacon St

313.30

314.01

613.66

313.53

313.99

613.76

Cable St

313.48

314.01

613.91

613.89

313.65

613.91

Sussex Cliff Blvd

De Foe

313.62

612.83

313.73

Ebers St

313.73

612.73

313.91

Froude St

612.78

313.89

314.03

St

Cross in walk. O.K. 2/18/49

314.04

612.78

314.08

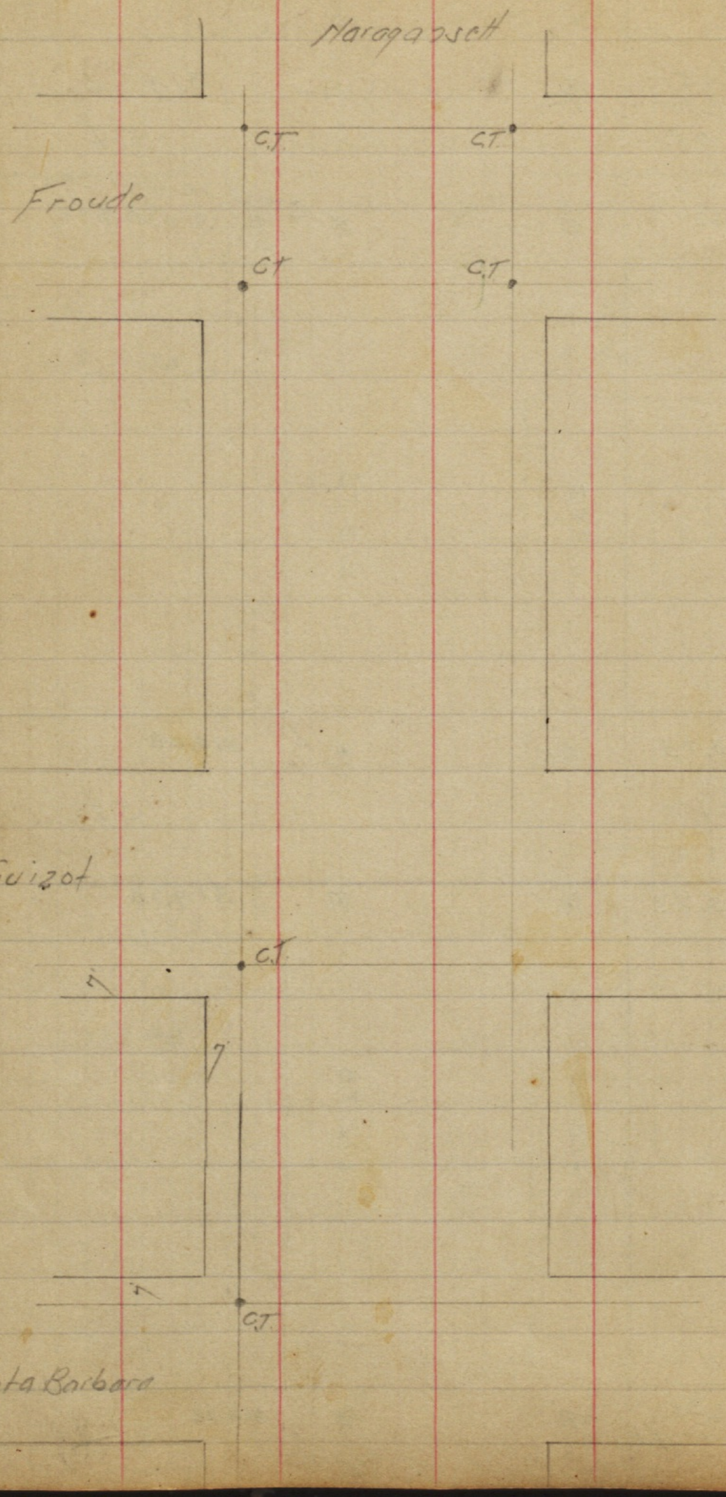
St

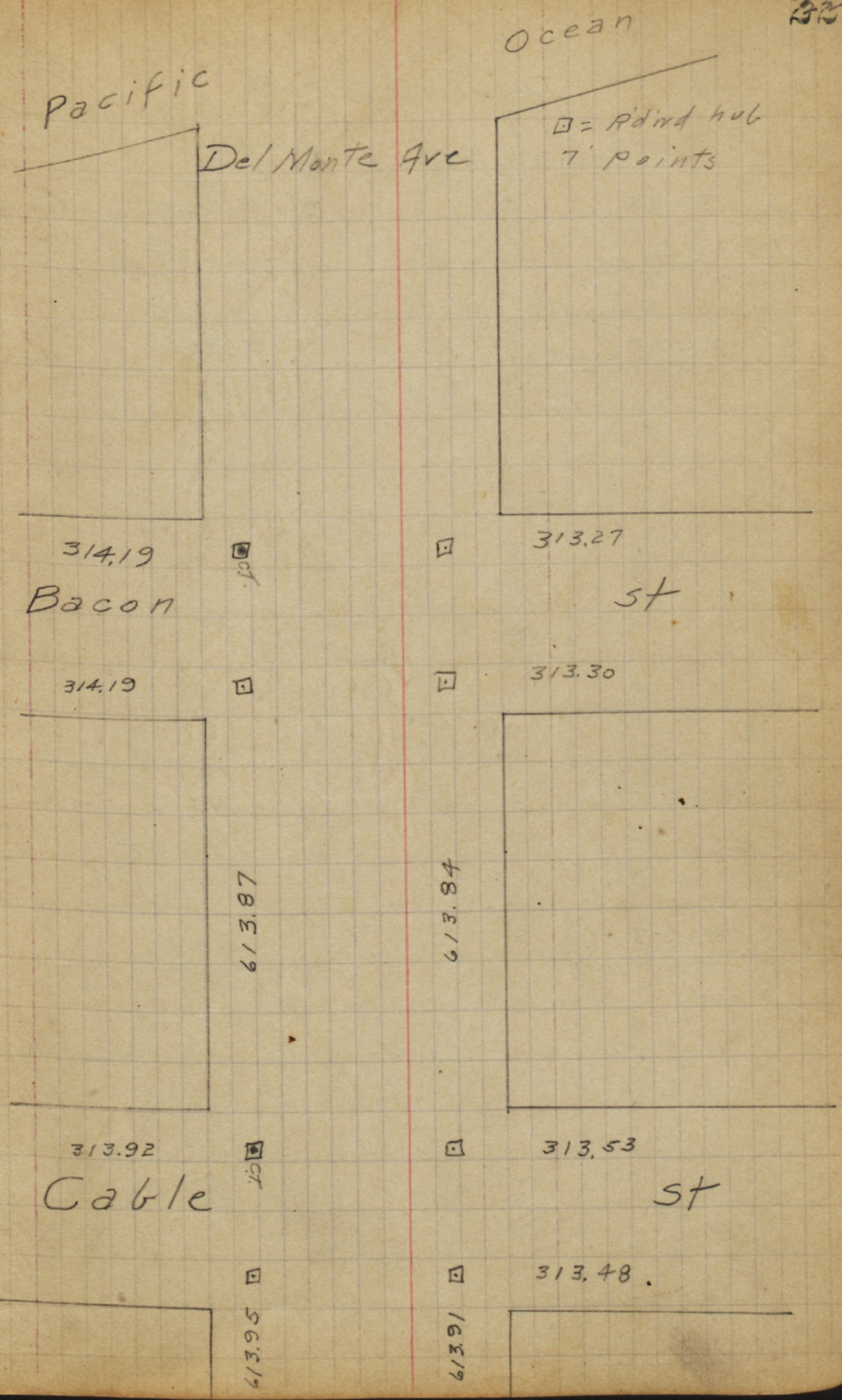
314.10

612.78

314.22

St


Naraganseth
C.T.
C.T.
Froude
C.T.
C.T.
Guizot
C.T.
7
7
7
C.T.
Santa Barbara


Pacific
Del Monte Ave
Ocean
□ = R'd'wd hub
7' points
314.19
313.27
Bacon
st
314.19
313.30
613.87
613.84
313.92
313.53
Cable
st
613.95
613.91
313.48

Del Monte Ave

313.69 | 613.95 | 613.91 | 313.65

C.T. C.T. C.T.

De Foe
Sub set of Cliff Blvd

st

313.75 | 313.62

612.68 | 612.63

313.57 | 313.73

C.T. C.T.

Ebers st

313.57 | 313.73

612.66 | 612.64

Fl

313.37 | 612.66 | 612.64 | 313.91

Froude

st

C.T. C.T.

Del Monte

Guizot

C.T.

C.T.

Guizot

C.T.

C.T.

Santa Barbara

C.T.

Ocean

Pacific

Santa Cruz Ave

□= Rdwd hub
7' points

314.19

Bacon st

314.15

out

314.19

613.85

613.86

313.98

313.92

Cable st

314.00

313.98

614.24

614.15

313.78

Santa Cruz Ave

619.29

313.69

Sunset Cliffs Blvd

De Foe st

313.72

313.75

612.73

612.72

313.46

313.57

Ebers st

313.45

313.57

612.47

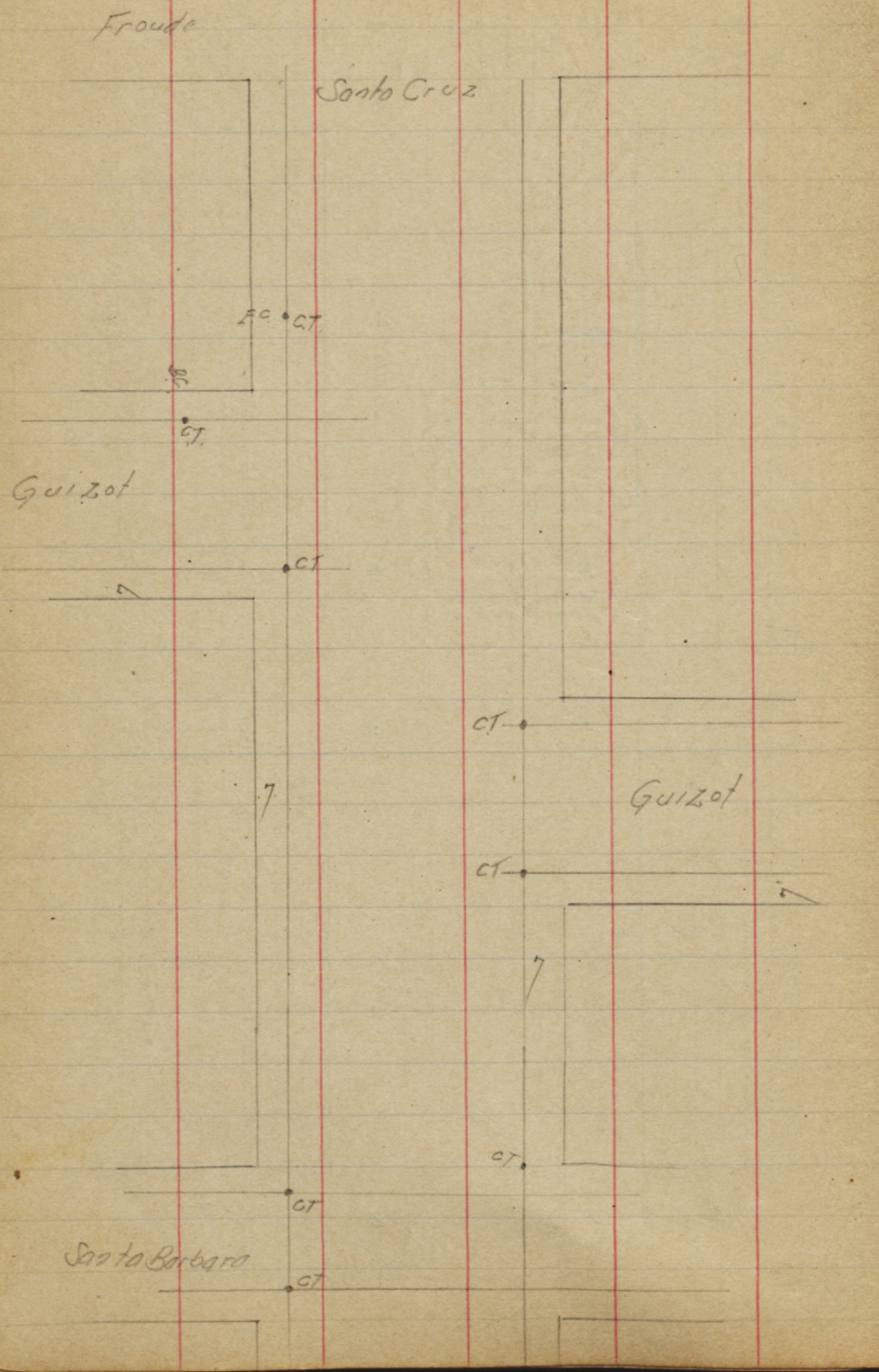
612.45

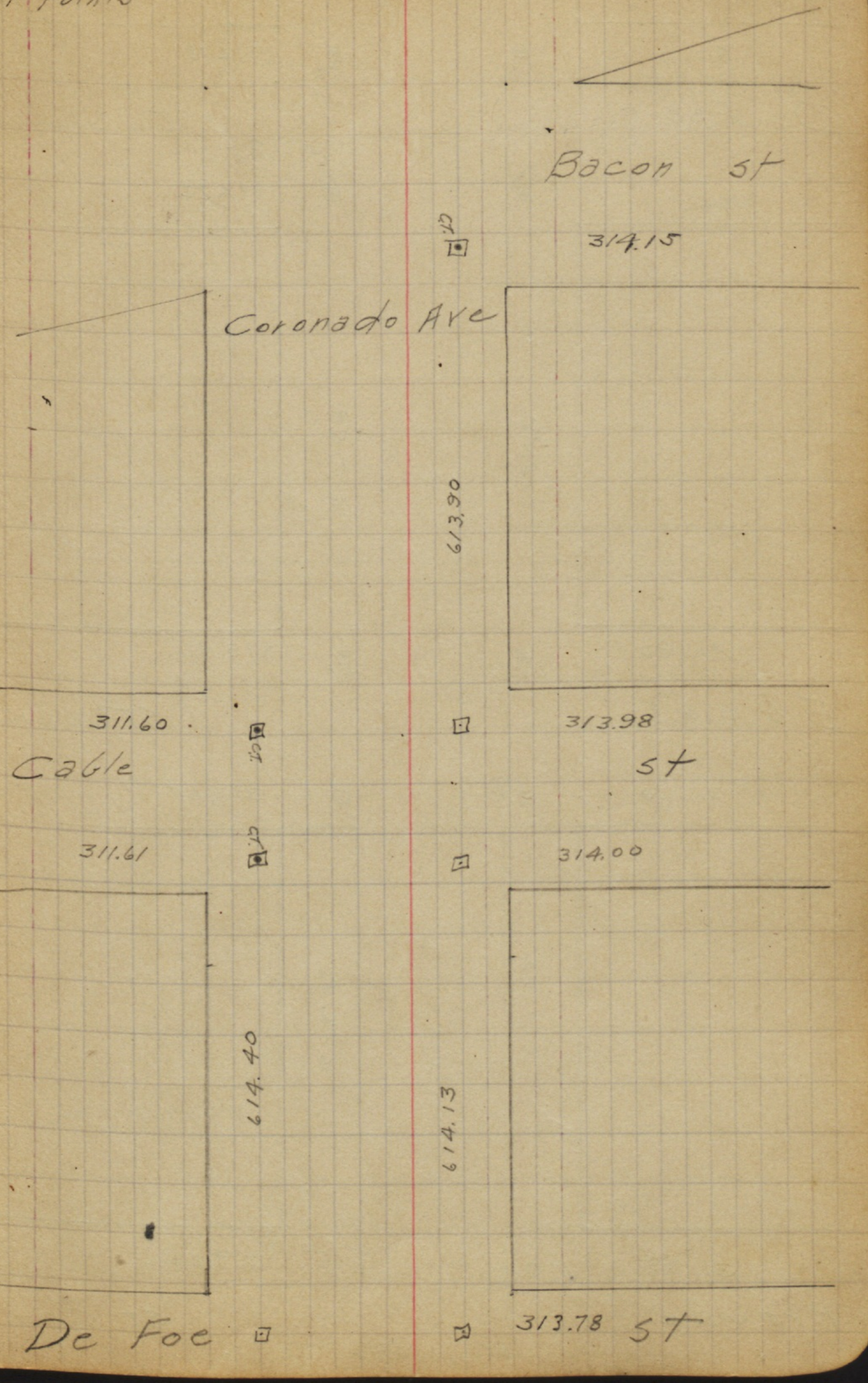
313.20

313.37

Froude st

□ = Redwood hubs
7' Points





Coronado Ave.

311.66 — 313.78

Sunset Cliffs Blvd

De Foe St

311.66 — 313.72

612.50 — 612.68

311.80 — 313.46

Ebers St

311.80 — 313.45

10'

612.32 — 612.31

311.79 — 313.20

Froude St

Froude

Coronado

7' — 7'

CT

Guizot

Santa Barbara

□ = Redwood hubs
7 pts.

Del Mar Ave

313.73 CT 311.60

Cable St

313.68 311.61

614.19 614.22

313.59 311.66

Sunset Chpr Blvd
De Foe St

313.60 311.66

612.70 612.59

Del Mar Ave

612.70 612.59

313.62 311.80

Ebers St

313.60 311.80

612.35 612.37

313.34 311.79

Froude St

Guizot

□=Redwood hubs 7' pts.

Posted

Orchard Ave

313.73

Cable

st

313.43

313,68

614.20

614.40

313.56

Sunset Cliffs Blvd

313.59

De Foe

313.59

313.60

612.45

612.35

313.62 st

Ebers

Guizot

Del Mar

CT

Santa Barbara

CT

Orchard Ave

313.66

313.62

Ebers St

313.70

313.60

612.29

612.24

314.07

313.34

Froude St

Guizot

Posted
PO

237

Orchard

Santa Barbara CT

Redwood Hubs
7 pts

Posted
N.O

Cable St
313.43

Ave

614.34

313.55

Sunset Cliffs Blvd
De Foe

313.56

313.56

313.59

St

313.56

612.31

Pescadero

612.30

313.58

Ebers

313.66

St

313.58

313.70

313.58

Ebers

313.58

313.66

313.66

Froude

612.34

Ave

612.38

Pescadero

313.70

314.04

St

CT

Guizot

Posted
NO

Guizot

7'

x chiseled cut
x chiseled cut
□ R/F Hub

Pasadero

Santa Barbara

□ = Redwood hub
○ = cop mk in curb
7' p/s

31

314.18
Sub sta Cliff's Blvd
De Foe
CT
313.55
St

Ave

CT
314.18
CT
CT
313.56

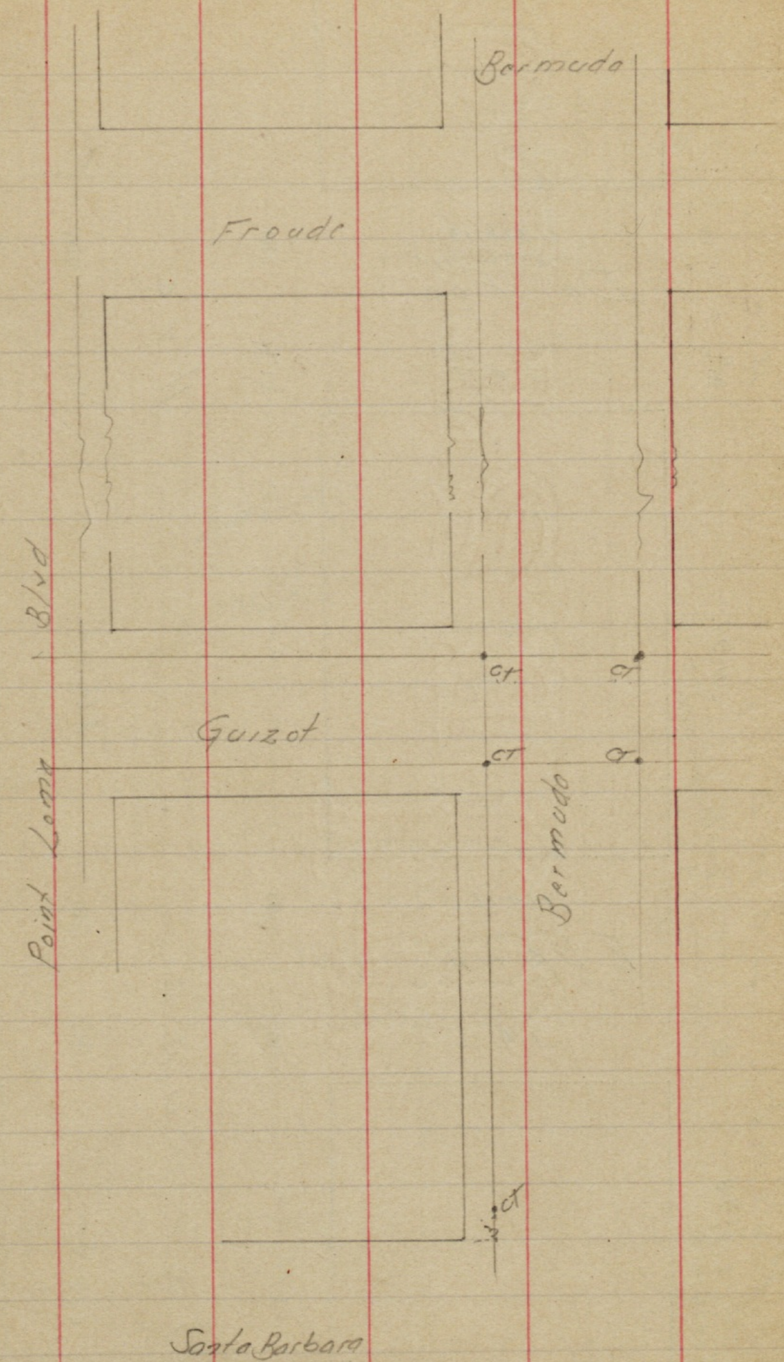
7'
12
611.97
612.05
612.06

Point Loma

cop mk in curb
7'
314.12
Ebers
St
313.58

314.12
612.36
Bermuda
612.44
313.58
7
7
313.86
Froude
CT
313.66
St

Posted No


Bermuda
Froude
Blvd
St
St
Guizot
St
St
Point Lobos
Bermuda
St
Santa Barbara

indexed
C.S.K.

Survey City Fire Dept. Lot 18 Blk 60 O.B.

Moore 7-31-36
Sisson
Northern

Note! Ely Line of Sta. over 0.05' on lot 19
from NLy Newport to 4' N from this pt.
to rear Sta. Bldg. is back from 0.0' to 0.07'

at height of 5' above sdw. Bldg. is on Line

Wly Line Sta. is over on lot 17
0.05' at NL Newport at rear 0.03' over

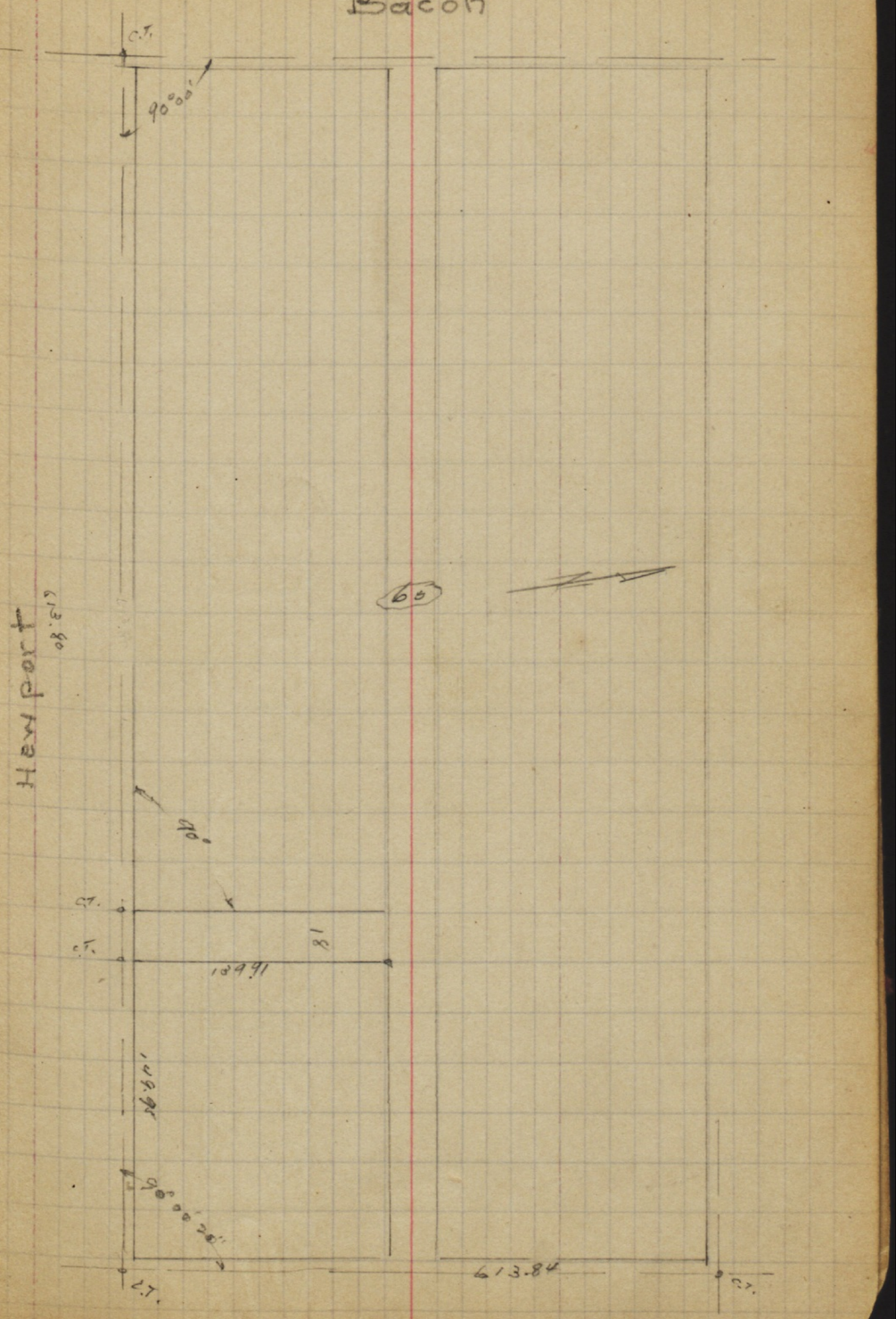
Moore
check Survey 3-8-40: Hale
Fd. E.L. C.T. O.K
" W.L " 0.01 too far North and
Midway bet. New C.T. by hoebenstein

" W.L. Fire Sta. Bldg average 1⅜" over
on next Lot.

6-8-40

33

Bacon



6-8-69

Tres Lomas Alla No 1

CT's wall pp

CTack S. End East window sill.

Greene

Set 7' Hub 11-July-51

Set Hub

BANNING

Avalon St.

99.72 Ch.

90° Rt Turnout

256.79 Ch.

Set 7' Hub 11-July-51

Mon.

Set Hub

Set Pk Nail + Disc. 7-17-52 CRW

Voltaire St

Set Pk Nail + Disc. 9-17-52

Fd 84 C.T. Mon

Voltaire

See FB 1862 / A3

Fd Iron

Meadow

Fd. Hub FB 2060 / 36

FD 1501 / 1

6-8-63 Moore Survey Northrop

100'

Mon

90°02' T

90°02' T

Δ 23°44' R 2571.59 Sec 3/4 L 1063.47

Bonning St.

135 85

Mon.

62°47'

Also See FB 1721-48 FB 1769-6

Famosa Blvd

35 35

89°58'

78.71

Whittier St.

Set Mon. 3-10-47 cus.

Established To Point

Voltaire

Cabrillo St.

Udal St.

San Clemente St.

Udal

70'

Indexed
C.S.K.

Prop. Culv. on Lot 38/12 Long Acres #1

MH & P	1.93	88.43		86.50 Vort. & Bolinas
T.P.	0.00	75.98	12.51	75.92
T.P.	1.65	65.59	12.04	63.94
	0+00 = Sly Line 15' alley			
E			4.4	
E cb.			4.4	
C			4.4	
	0+53 = E Ex. Culv & House 25' wide			
E -18	Fl. elev.		5.50	
E			5.3	60.3
cb	Top headwall		5.16	
"	flow Line 10" R.pe		7.40	
C			4.1	41.5
	0+76.5 = Prop Culv.			
W cb			2.7	
C			3.6	
E cb = Inlet = 0+00			4.1	
E	Line of Culv.		4.6	
0+12			4.8	
0+25			12.2	
0+50			15.8	
0+80	in wash		22.2	

Survey 1-10/12 Ocean Beach Map 279

Moore
Begg
Sherman
Burch
Gregory

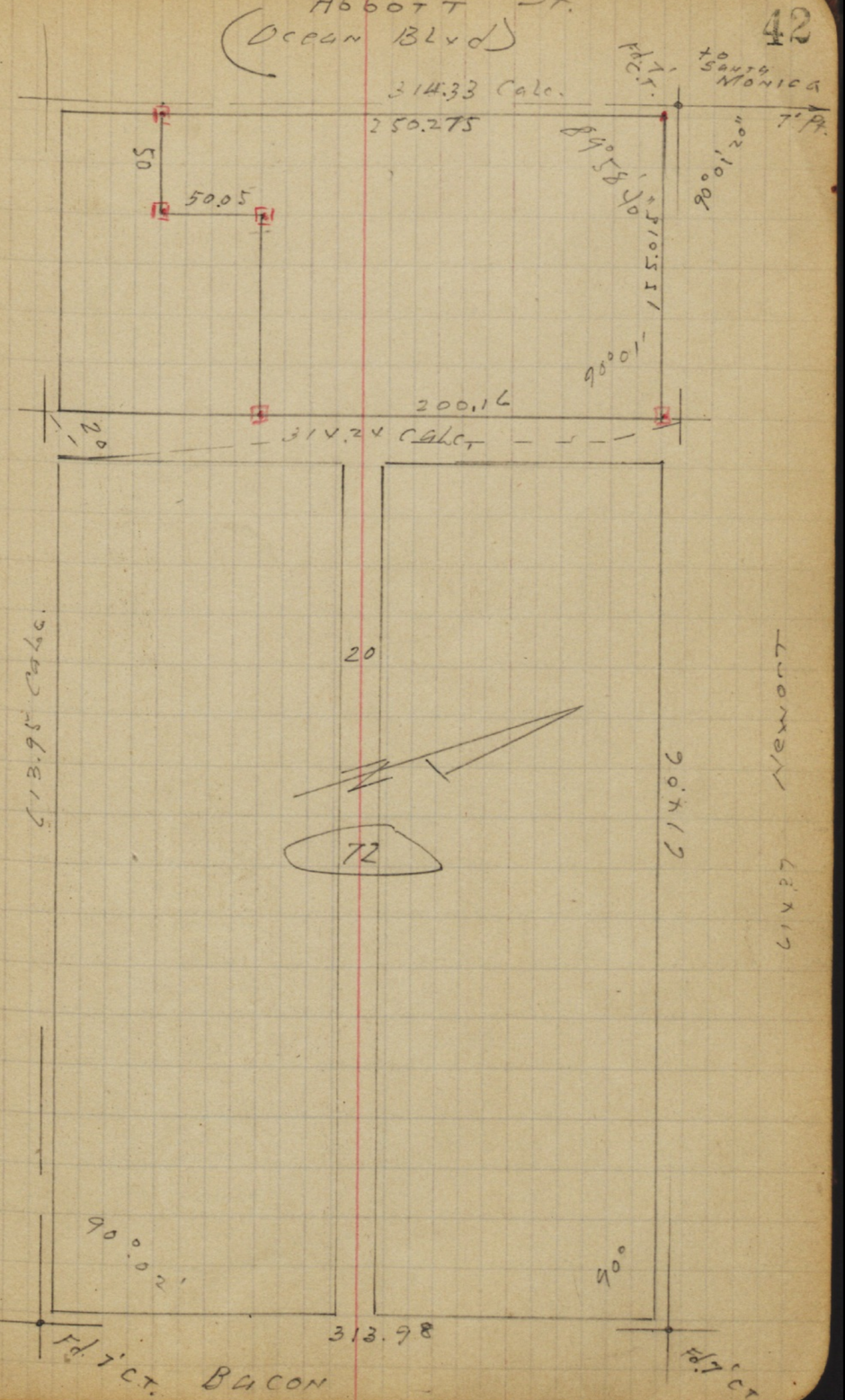
10-28-48

W.O. 21001

• = Grydisk Ld.

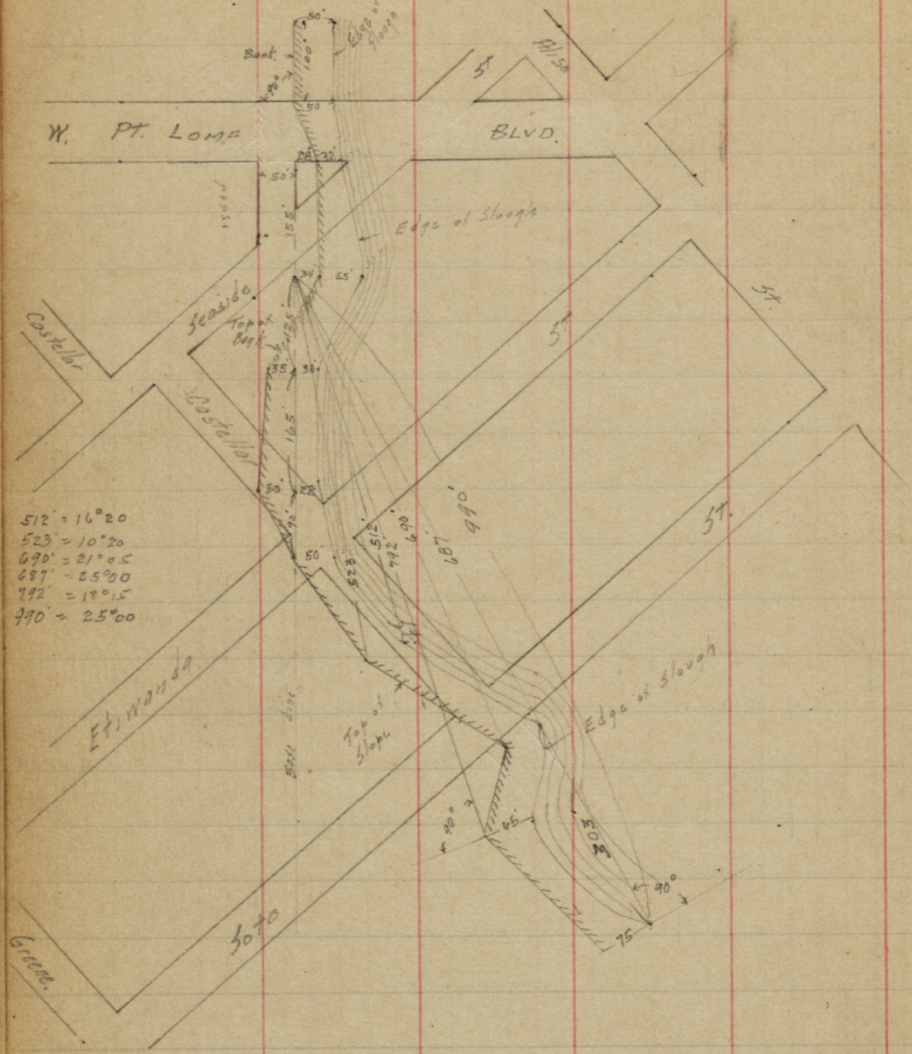
□ = " " Hub

Abbott St.
(Ocean Blvd)



8/10/21 Gregory Moore Shaw

Location of Slough in De Puy's Add. for Ocean Beach Assessment Map.



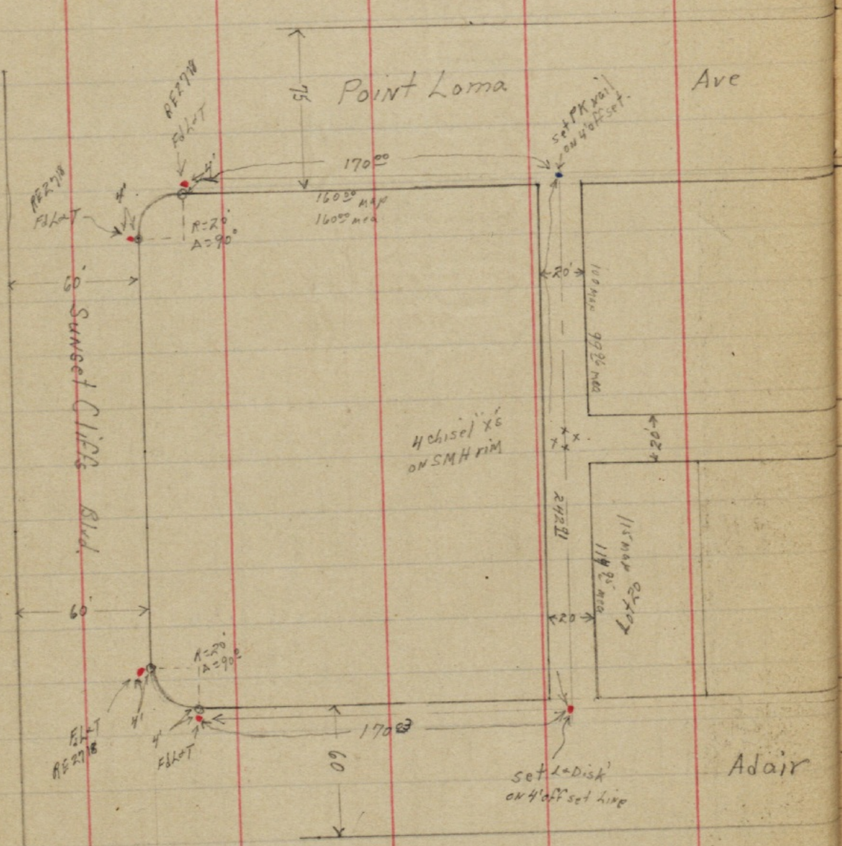
Wo #20006
1/29/54

Survey Blk 4 Sunset Cliffs
#1889
sheet 3 of 5

✓ Discrepancy in Blk 4 Lot 20 N'ly line.

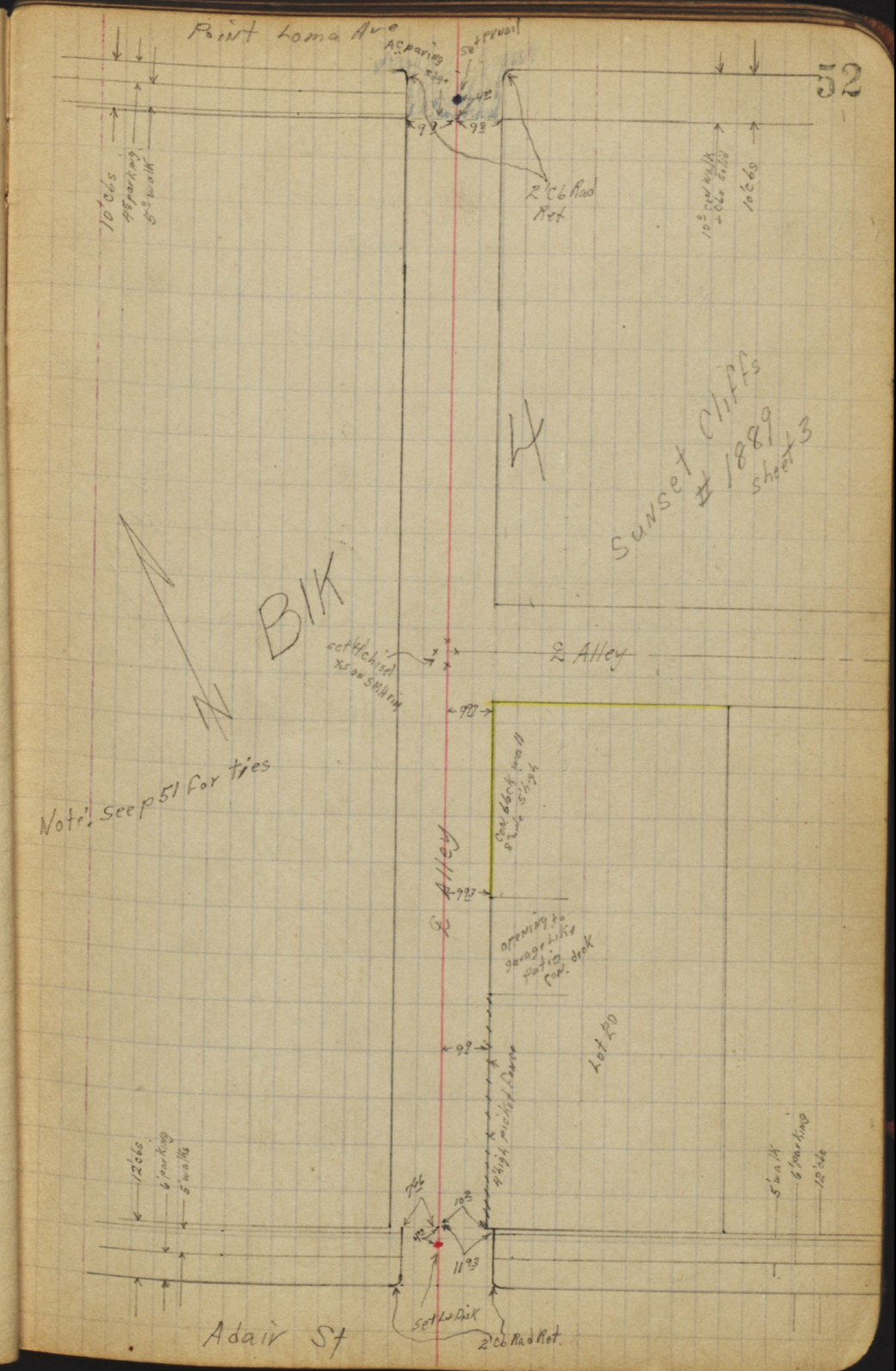
D. Smith
J. Rorer
R. Taylor
B. Fish

INDEXED
JER
FEB 1
1954

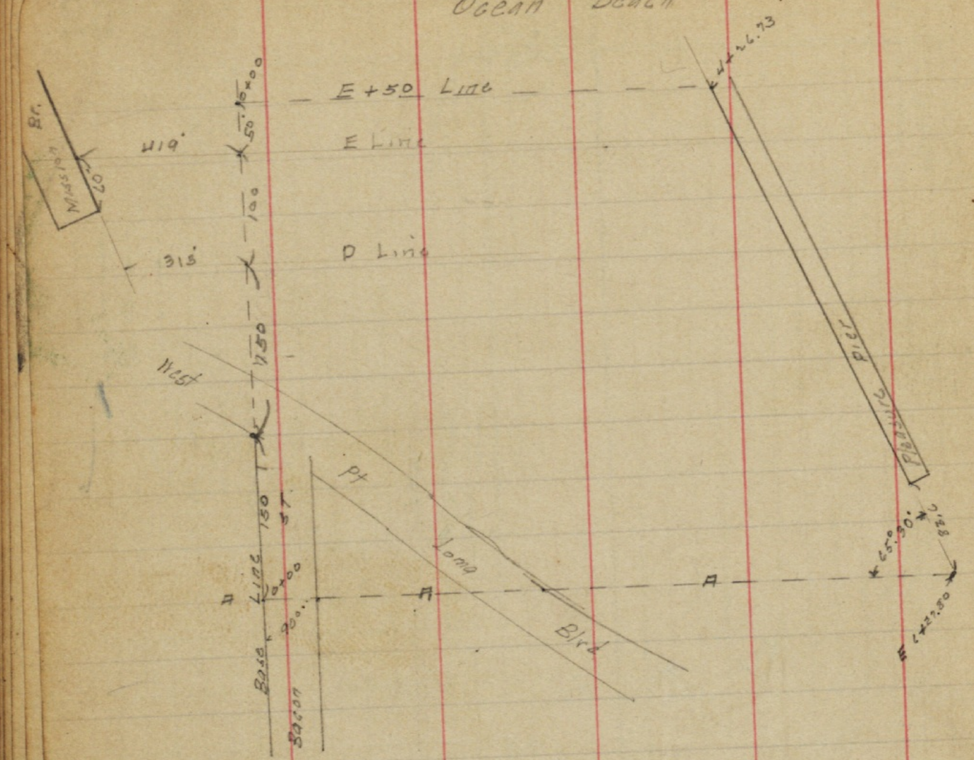


Note: See p52 for detail sketch Lot 20 and Alley

⊙ Fd 2" Pipes
• Fd or set L+Ts or disks


Point Loma Ave
AC paving edge
Set Pk nail
2'C6 Rad Ret
10'6 Sidewalk
Curb & Gutter
10'6
Sunset Cliffs
1889
sheet 3
BIK
N
Set Tack in Sidewalk
2 Alley
Note! see p 51 for ties
Cont. block wall & Rock Slope
Alley
Approx. 9'6 high Retaining Wall
Lot 20
12'6
6' parking
5' walk
10'
11'3
Set Lead Disk
2 C6 Rad Ret.
Adair St

Levels on Proposed Playgrounds
Ocean Beach



Lines E+W are lettered Letters 100' apart.
N+S are numbered

	3.2	12.8		9.5 NE Bason + Voltaire
	2.46	2.56	1.274	0.10
		Base Line = 0+00		
C+33 = Top bank			+ 3.8	6.33
C+44		2.56	3.3	- 0.7
C+50			3.6	- 1.0
D			4.6	- 2.0
D+50			5.6	- 3.0
D+60			5.5	- 2.9
E			5.2	- 2.6
E+50			4.4	- 1.8
E+60			4.3	- 1.7
F			8.0	- 5.4
F+50		2.56	8.5	- 5.9
		0+50 East.		
F+50		2.56	7.9	- 5.3
F			6.0	- 3.4
E+80			4.4	- 1.8
E+50			4.7	- 2.1
E			5.5	- 2.9
D+90			6.2	- 3.6
D+50			5.5	- 2.9
D			4.4	- 1.8
C+90			3.7	- 1.1
C+83			2.1	+ 0.5
C+50		2.56	3.2	- 0.6
C+20		9.33	9.8	- 0.5
C+11			2.2	+ 7.1 Top bank

	1+00 E	3cc 1+25			
B+80	9.33	3.1	6.2		Top bank
B+91		11.4	-2.1		
C		11.4	-2.1		
C+06.0	9.33	9.1	+0.2		
C+50	2.56	2.5	+0.1		
C+80		1.4	+1.2		
C+88		4.1	-1.5		
D		5.1	-2.5		
		5.6	-3.0		
+50					
		6.2	-3.6		
E					
		4.8	-2.2		
+50					
		4.7	-2.1		
F					
	2.56	7.5	-4.9		
+50					
	1+50	3cc 1+85			
	2.56	7.6	-5.0		
G+50		7.5	-4.9		
G					
		6.8	-4.2		
F+50					
		4.7	-2.1		
F					
		5.3	-2.7		
E+50					
		5.6	-3.0		
E					
		5.9	-3.3		
D+50					
		5.6	-3.0		
D					
	2.56	6.4	-3.8		
C+50	9.33	13.2	-3.9		
C		10.1	-0.8		
B+73		6.4	+2.9		
B+69	9.33	3.6	+5.7		Top bank
B+50					
	2+00	3cc 2+40			
	9.33	5.4	+3.9		
B+50		7.7	+1.6		
B+99		11.4	-2.1		
C	9.33	11.4	-2.1		
C+25	2.56	6.9	-4.3		
C+50					
		6.0	-1.4		
D					
		6.1	-1.5		
D+50					

E	2.56	5.7	-3.1	
+50		5.4	-2.8	
F		5.4	-2.8	
+50		4.4	-1.8	
G		6.6	-4.0	
G+50		7.2	-4.6	
H	2.56	7.5	-4.9	
	3cc 2+40 2+50	3cc 2+60		
H	2.56	6.9	-4.3	
G+50		6.6	-4.0	
G		4.3	-1.7	
F+50		5.5	-2.9	
F		5.4	-2.8	
E+50		5.2	-2.7	
E		5.6	-3.0	
D+50		6.0	-3.4	
D		6.1	-3.5	
C+50		6.9	-4.3	
C		7.0	-4.4	
B+60		7.1	-4.5	
B+50	2.56	5.4	-2.8	
B+40	9.33	5.9	+3.4	
A+83	3cc 2+60 3+00			
B	9.33	4.8	+4.5	
+25	9.33	8.6	+0.7	
+50	2.56	7.0	-4.4	
		7.1	-4.5	
C		7.3	-4.7	
+50		6.6	-3.9	

Line of Pleasure Pier

D		2.56	5.6	- 3.0
+50			5.3	- 2.7
E			5.2	- 2.6
+50			5.2	- 2.6
F			5.5	- 2.9
+50			5.8	- 3.2
G			6.0	- 3.4
+50			4.4	- 1.8
H		2.56	6.7	- 4.1
		3+50		
G		2.56	5.4	- 2.8
F+50			5.4	- 2.8
F			5.4	- 2.8
E+50			5.4	- 2.8
E			5.5	- 2.9
D+50			5.6	- 3.0
D			7.7	- 5.1
C+50			7.6	- 5.0
C			7.5	- 4.9
B+50		2.56	7.4	- 4.8
B		9.33	13.5	- 4.2
A+65			11.3	- 2.0
A+50			6.0	+ 3.3
A+45		9.33	3.7	+ 5.6
		3+75 ←		
B		9.33	13.5	- 4.2
A+50			9.9	- 0.6
A+45			9.7	- 0.4
A+31		9.33	2.9	+ 6.4

F+50		2.56	4.8	- 2.2
F			5.2	- 2.6
F+50			5.5	- 2.9
E				
D+75			5.9	- 3.3
D+50			6.2	- 3.6
D			7.7	- 5.1
C+50			7.7	- 5.1
C			7.6	- 5.0
B+50			7.8	- 5.2
B			8.4	- 5.8
A+75 App.		2.56	6.2	- 3.6
		9.33	4.2	- 1.6 bottom = end pier
			4.9	+ 4.4 Top
A+18		9.33 4+00	3.7	+ 5.6
A+40			6.8	+ 2.5
A+50			7.3	+ 2.0
A+61			10.6	- 1.3
B+40			13.2	- 3.9
			13.8	- 4.5
B+50		2.56	7.7	- 5.1
C			7.8	- 5.2
C+50			8.0	- 5.4
D			7.9	- 5.3
D+50		2.56	7.5	- 4.9

1+28 East.

C+50	N.56	1.9	+ 0.7
C+65		1.4	+ 1.2
C+70	N.56	4.0	- 1.4
	2+60 East		
B+50	N.56	6.8	- 4.2
T.P.		3.65	- 1.09
	4+50		
A+50	9.33	5.1	+ 4.2
A+58		10.1	- 0.8
A+84		13.3	- 4.0
B	9.33	13.9	- 4.6
B+50	N.56	7.9	- 5.3
C		7.8	- 5.2
C+50		7.8	- 5.2
	5+00		
A+50	9.33	4.0	+ 5.3
A+60	9.33	11.4	- 2.1
B	9.33	13.7	- 4.4
B+50	N.56	8.1	- 5.5
C	N.56	8.0	- 5.4

5+50

A+50	9.33	1.9	+ 7.4
A+63		3.6	+ 5.7
A+73		11.0	- 1.7
A+86		13.0	- 3.7
B	9.33	13.5	- 4.2
B+50	N.56	8.4	- 5.8
	1+85 E		
B+99	9.33	7.1	+ 2.2
C	9.33	11.7	- 2.4
	2+40		
C	9.33	13.9	- 4.6
B+68		14.2	- 4.9
B+59		11.4	- 2.1
B+50	9.33	5.9	+ 3.4
	4+80		
A+41	9.33	4.3	+ 5.0
A+50		7.1	+ 2.2
A+57		10.4	- 1.1
A+83		13.2	- 3.9
B	9.33	13.8	- 4.5

continued

Locks West of Base Line

	6.32	6.43	0.10	
		0+50 West		
C+45		0.7	5.7	Top bank
C+55		6.7	-0.3	
D		8.3	-1.9	
+50		8.5	-2.1	
E		8.9	-2.5	
+37		8.1	-1.7	
+50		9.5	-3.1	
+75		12.1	-5.7	
F		12.5	-6.1	
		1+00 West		
F		12.9	-6.5	
E+58		12.3	-5.9	
E+50		11.5	-5.1	
E+16		8.1	-1.7	
E		8.2	-1.8	
D+50		8.2	-1.8	
D+25		8.4	-2.0	
D		7.6	-1.2	
C+69		7.3	-0.9	
C+59		1.6	+4.8	Top Bank

	1+50		
C+72	2.9	+3.5	Top bank
C+81	6.7	-0.3	
D	7.6	-1.2	
D+50	8.0	-1.6	
D+89	7.7	-1.3	
E	9.3	-2.9	
E+25	11.9	-5.4	
E+50	12.6	-6.2	
F	13.0	-6.6	
	2+00		
F+50	12.9	-6.5	
E	11.8	-5.4	
D+77	10.7	-4.3	
D+60	7.6	-1.2	
D+50	7.5	-1.1	
D	7.7	-1.3	
C+91	7.4	-1.0	
C+83	2.9	+3.5	Top bank
	2+10 West		
C+83	3.0	+3.4	
D	5.8	+0.6	
D+08.0	7.4	-1.0	
	2+50 West		
C+95	3.5	+2.9	
D	5.1	+1.3	

		6+43			
D+38			6.6	-0.7	
D+50			9.2	-2.8	
D+72			12.0	-5.6	
E			12.7	-6.3	
E+50			13.1	-6.7	
		3+00	West		
E+50			13.5	-7.1	
E			12.8	-6.4	
D+50			10.6	-4.2	
D			5.0	+1.4	Top bank
		3+15			
D = on line of Mission Br.			4.5	+1.9	Top bank
D+15			8.0	-1.6	
		3+50			
D+34			11	+2.3	= Top bank
D+50			9.4	-3.0	
E.			12.8	-6.4	
E+50			13.4	-7.0	
		4+00			
E+50			13.7	-7.3	
E+75			7.6	-1.2	
		4+19			
E+00			14.0	-7.6	= Mission Br. Lgt

3/11/20 Gregory Shaw

Sidewalk Yardage etc on La Jolla Blvd from St Center to Prospect

Build Return at SE Center + La Jolla Blvd

	rod.
NE. cb	5.2
1' back	4.8
3' –	3.3
Property corner	2.9

East Side N.L. Center to Sea Lane

NE return

	rod
cb.	5.0
1' back	4.8
3' –	3.8
property corner	3.5

N.L. of Center

Property corner	3.5
3' from cb.	3.7
1' – –	4.8
cb	5.0

50' N. of Center

cb	5.0
1' back	4.9
3' –	3.5
10' –	3.6

100' N

cb.	5.1
1' back	5.0
3' –	3.8
10' –	3.7

140' N. of Center

cb.	5.1
1' back	4.8
3' –	3.9
10' –	3.7

143' N. cb on S.L. Sea Lane.

cb.	5.1
10' back	5.1

West Side La Jolla Center to Sea Lane

walk all out 9 cu yds to more

West Side Sea Lane to alley Blk 8

walk all out no yardage.

East Side Sea Lane to alley Blk 2

cb on N.L. Sea Lane.	5.1
prop. – – – –	5.1

3' No. of Cb Line of Sea Lane

cb	5.1
1' Back	5.1
3' –	4.0
10' –	3.9

50' N. of Cb. Line Sea Lane

cb.	5.2
1' back	4.9
3' –	4.0
10' –	3.7

80' N of cb Line 5 L

cb	5.2
3' back	4.8
4' ✓	3.9
10' ✓	3.9

100' N.

cb	5.1
2'	5.3
3'	3.5
10'	3.5

150' N.

cb	5.0
3' back	3.7
10' ✓	3.5

5L Alley Blk ∠

cb	5.0
10' back	4.7

NL Alley Blk ∩

cb	5.1
10' back	4.9

2' N.

cb	5.1
2' back	4.1
10' ✓	3.7

Side

East

All on

These are rod readings not elev.

20' N

	rod
cb	5.1
3' back	4.1
10' ✓	3.5

98' N. = P.C.

cb	5.1
4' back	4.3
10' ✓	4.4

25' N of PC on curve

cb	5.1
4' back	5.1
5' ✓	4.0
10' ✓	4.2

50' N. of PC on curve

cb	5.0
3' back	4.7
4' ✓	3.6
10' ✓	3.8

65' N of PC

cb	5.1
2' back	4.7
3' ✓	3.0
10' ✓	3.3

100' N. of P.C. = End of Curb.

cb	4.9
1' back	4.7
2' ✓	3.3
10' ✓	3.3

Side

East

All on

Rod Readings NOT Elev.

West Side xfrom Alley in Blk 8 to 50' N.

Walk out. 3.5 cu. yds to more.

East Side xfrom N.L. Marine

N. cb Marine cb		5.0
10' back		5.0
	2' N. ox Cb Line	
cb		5.0
10' back		4.0
	10' N. ox Cb. L. = N.L. Marine	
cb.		5.0
3' back		4.0
10' ✓		3.5
	50' N. ox N.L.	
cb		5.0
3' back		3.8
10' ✓		3.4
	100' N.	
cb.		5.1
2' back		4.6
10' —		4.0
	135' N	
cb		5.0
2' back		4.5
3' ✓		3.9
10' ✓		3.6

138.5 ft. = N.L. ox F.T. Scripp's Add = 5. end ox 17 walk

cb 5.0

10' back 4.6

West Side ox Blk 15 La Jolla Park.

Walk is in xfrom S.L. ox Prospect to a point 173' So. measured on Curb Line x

JENNER ST.

West Side

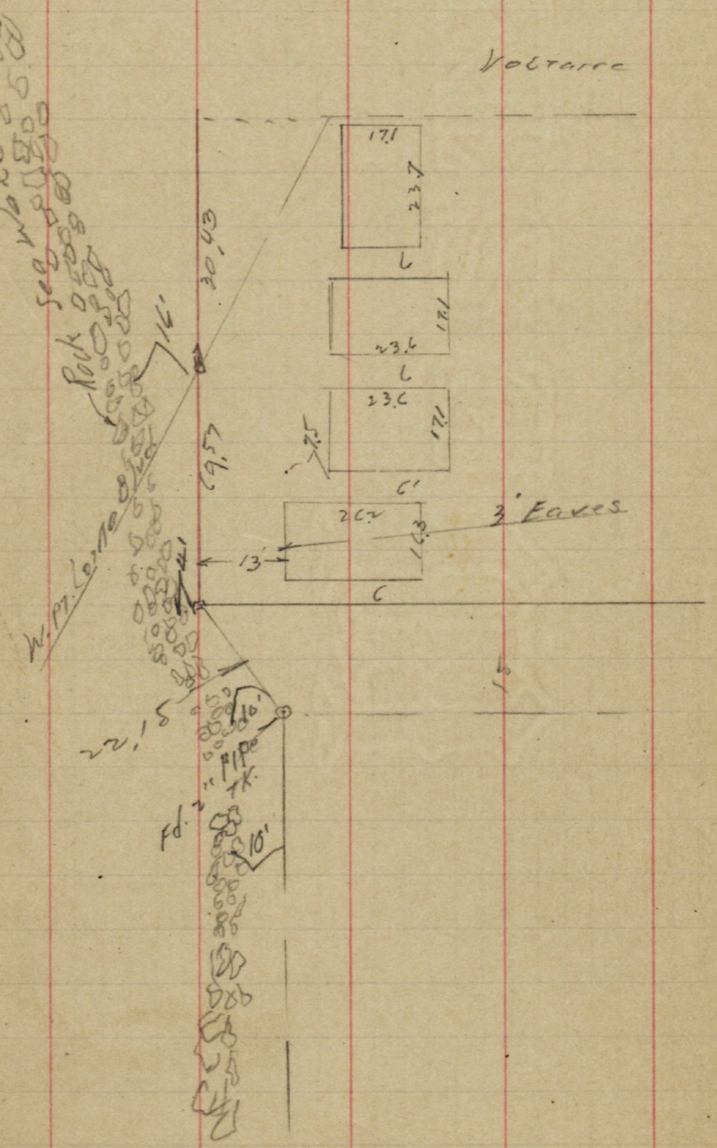
Walk and Curb all out on West side from
this pic is taken rt by to S.W. cor Coast Blvd Junior
144.5 So. of S.L. of Coast Boulevard South
to N. End of Jenner including returns.

East Side

Walk + Curb out on East side from
N.L. of Coast Blvd South to a point 105' N
measured on Prop. Line also return NE cor
of Jenner + Coast Blvd. S.

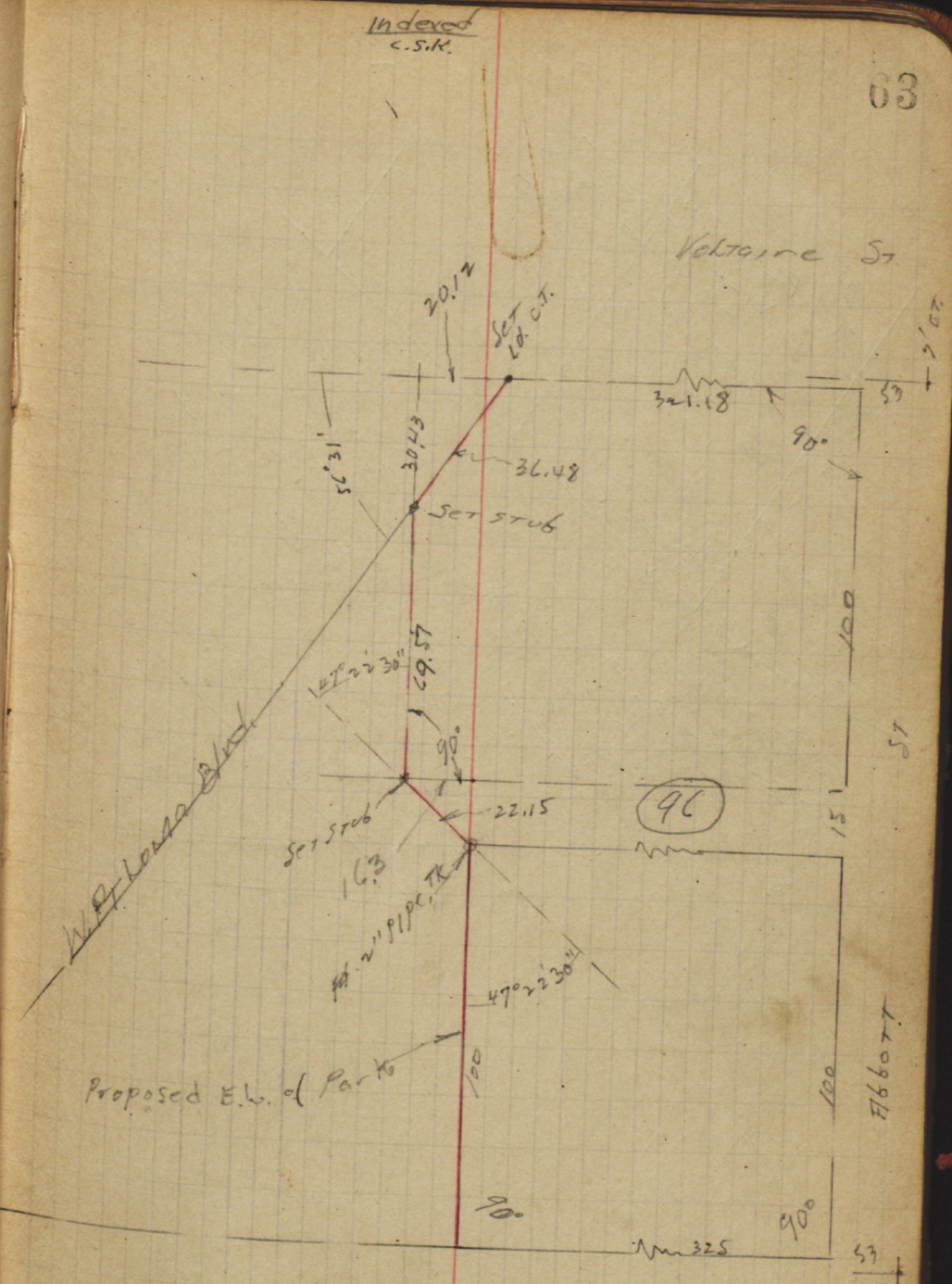
Also W+C out from S.L. of Coast Blvd
S to S.L. of Lane in Blk bet Prospect + ~ ~
~

Moore
Sanitary Engineer
W. F. M. Survey Blk. 96 Ocean Bay Beach
1-29-45.

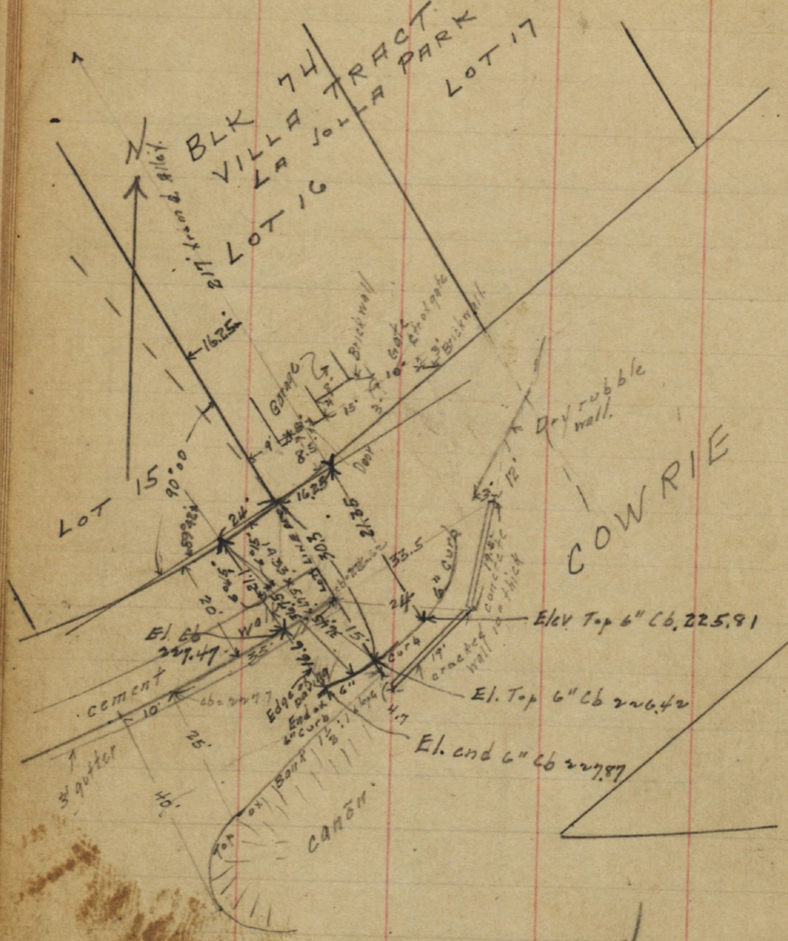


Indexed
C.S.K.

63



2/11/20 Gregory Shaw Location ox Improvements on Cowrie ST



Platted
RW 2/24/20

64

203.00
13.11
216.11
013
216.24
12.96
229.20

202 / 226.02 = end of Cb 154 / 227.70 = Cb 35' west of End

340 / 225.84 = gutter at end of ab. 365 / 225.59 = west end of conc. wall.

330 / 225.94 = road 15' s. of End of Cb 180 / 227.24 = 25' w of end of ab = 16' S. in road

226 / 226.68 = 1 floor of garage 400 / 225.2 = ground in ctr of gate

1446 / 226 = ground east of gate 60 / 224.0 = ctr of rubble wall

44 / 224.8 = East end of concrete wall 32 / 225.9 = road way 4' east of end of Cb. proj.

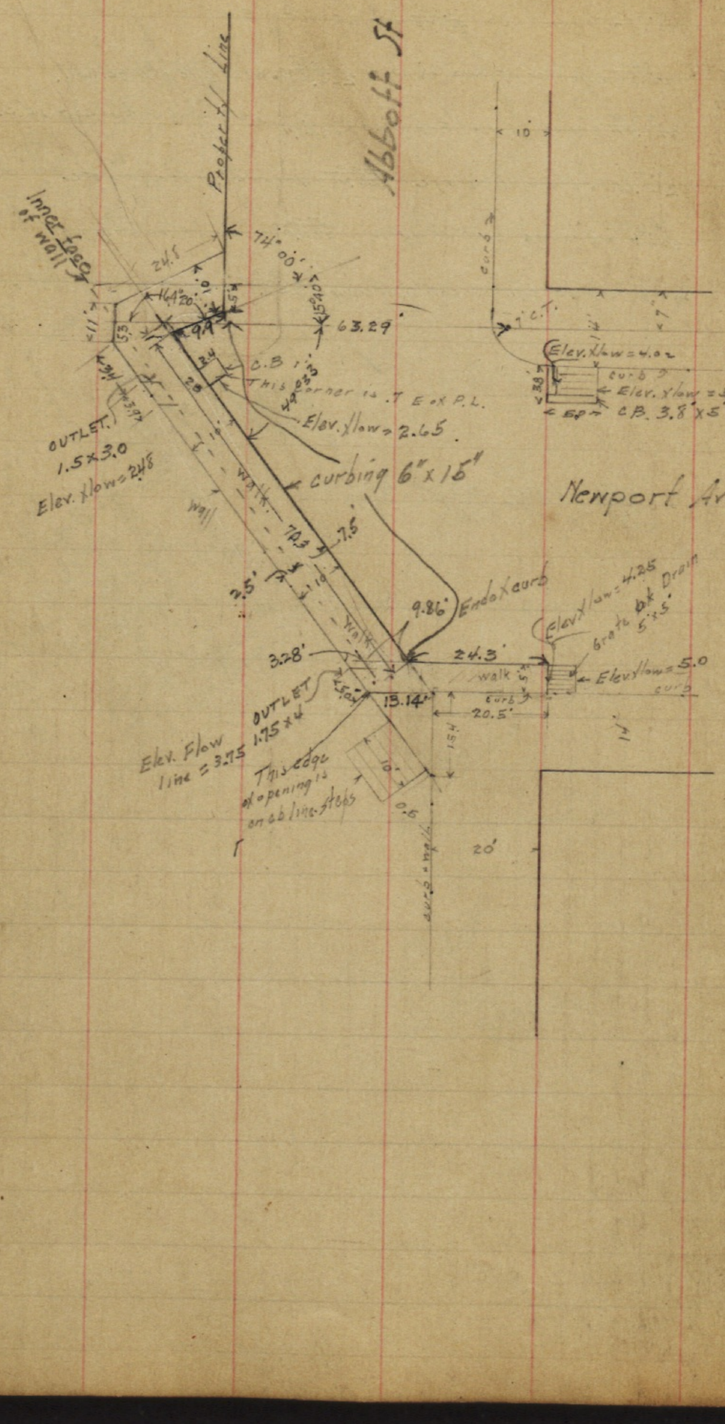
RW 3/20/20

2468
470
23138

559 / 225.81 491 / 226.42 351 / 227.87 30 / 227.47

4/13/20 Gregory Moore Miller

IMPROVEMENTS AT NEWPORT AND ABBOTT



64.73
49.33
15.40
170.40
114

10.65 NB

5.20 | 6.63 | 5.00 | 6.40 | 4.21 | 5.15 | 1.75 | 6.90 | 3.75 | 8.17 | 2.48

4.25 | 2.38 | 6.63 | 4.41 | 1.71 | 6.40 | 5.15 | 2.44 | 8.00

05

2/10/21 Gregor / Miller / Shaw — Levels for Drain Newport St from Froude to De Foe

	1.44	109.82		108.38	Mon NE Froude & Newport
"A" = E.L. Froude 17' S. of N.L. Newport.			3.3	106.5	
A + 25			3.2	106.6	
A + 45			3.8	106.0	
A + 50			6.2	103.6	
+ 54.9 = B.			6.2	103.6	

Main Drain

0+00 = E.L. Froude 17' N. of S.L. Newport.			5.1	104.7	bottom ditch
0+30			6.2	103.6	" "
0+60			7.6	102.2	" "
1+00			10.9	98.9	" "
TP	1.84	98.70	12.96	96.86	
1+25			2.4	96.3	" "
+50			4.7	94.0	" "
+89			7.8	90.9	" "
+93			12.2	86.5	" "
2+00			12.5	86.2	" "
2+18			12.5	86.2	ditch 2.5' 1' lower
2+19			10.1	88.6	ditch 3'3+ lower
T.P.	0.47	86.22	12.95	85.75	
2+55			4.3	83.9	
2+56			5.4	80.8	ditch 2'3 + 4.5
2+62			5.1	81.1	- 9'5+ 7.2
2+64 = Top of Ditch			4.2	84.0	

PAGE

SEE

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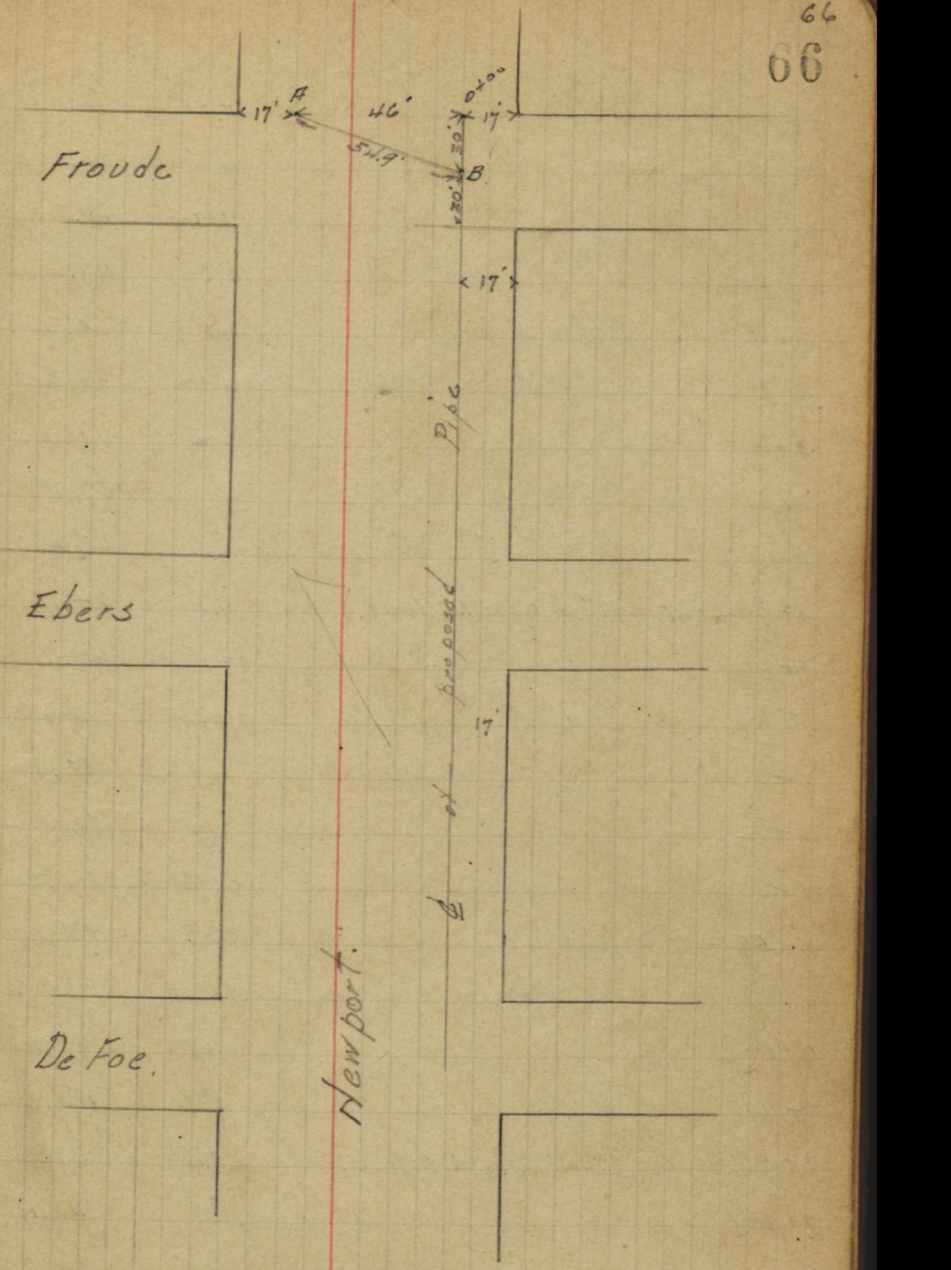


3+00	= Top Edge of ditch		5.5	80.7	L ditch 5'5 = 10' bottom
3+45	= " " " "		10.2	76.0	" " 4'-4.9' "
3+46			17.7	68.5	" 3' " +0' "
3+55			18.6	67.6	" 2' " +0' "
3+63	Top edge of ditch		11.7	74.5	" 6' " +7.5' "
T.P.	0.18	73.48	12.9	73.30	
4+00	Edge is 6'5		2.5	71.0	L ditch 10'5 +3.5' bottom
4+32	= " of ditch		6.1	67.4	
4+35			8.1	65.4	L ditch 9'5 +1.3'
4+59	= Inlet of 18" tract pipe 1.5'3. of 6.		9.4	64.1	Flow line = 2' bottom
5+00			12.8	60.7	
T.P.	0.27	60.80	12.95	60.53	
5+50			4.9	55.9	
5+70			7.2	53.6	
6+00			9.5	51.3	
+59	= E.L. Ebers		12.8	48.0	
T.P.	1.30	49.33	12.87	47.93	
7+00			3.8	45.4	
7+19	= W.L. Ebers		4.9	44.3	
7+27.5	= Outlet 18" pipe 1.5'3.0 x 6		7.6	41.6	Flow line 0'
7+50			8.8	40.4	in ditch
8+00			10.5	38.7	" "
8+50			11.9	37.3	" "
T.P.	0.35	37.02	12.56	36.67	
9+00			1.2	35.8	" "
9+50			2.7	34.3	" "

10+00	4.0	33.0
+50	5.3	31.7
11	6.2	30.8
+50	7.6	29.4
12	8.7	28.3
+50	9.8	27.2
13	10.8	26.2
+18 = E.L. Dexter.	11.1	25.9
+78.0 = W.L. "	12.4	24.6

Levels 3' S. of H.C.B. Newport

H.I. 37.02

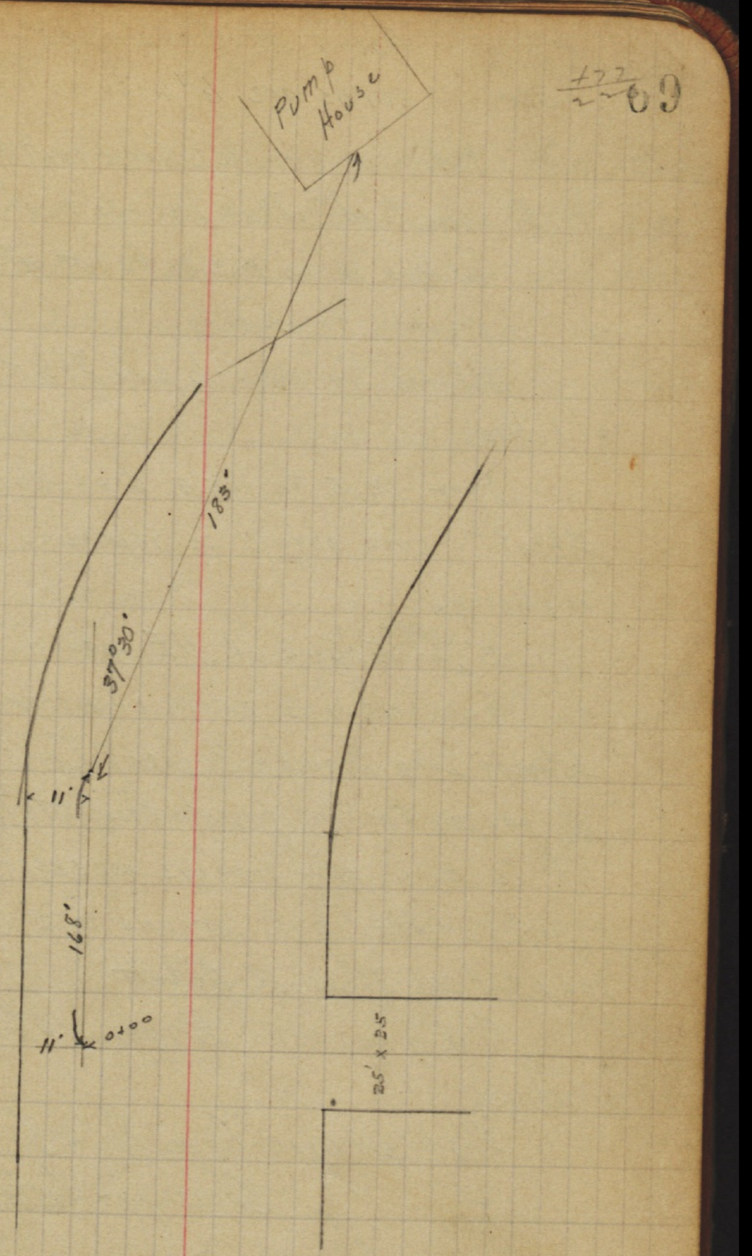
W.L. Defoe = 0+00			12.4	24.6
0+60 = E.L. Defoe			10.9	26.1
0+78			10.7	26.3
1+78			8.4	28.6
2+78			5.4	31.6
3+78			3.5	33.5
4+78			1.4	35.6
T.P.	12.77	49.44	0.35	36.67
5+78			10.9	38.5 ℄ Ditch
6+28			8.2	41.2 " "
6+78			6.9	42.5 " "
7+00			4.3	45.1 " "
7+50			0.1	49.3 ditch 10'N+1'deep
T.P.	12.82	62.21	0.05	49.39
8+00			8.7	53.5 ditch 10'N+1.5deep
+50			4.7	57.5 N. ditch
9			0.4	61.8 " "
T.P.	12.95	74.96	0.20	62.01
+50			7.9	67.1 ditch 7'N+1.8deep
10			3.5	71.5 " 5'N+1.4 "
T.P.	12.87	87.31	0.52	74.44
+50			10.6	76.7 ditch 6'N+2.4 deep
11+00			5.7	81.6 " 5' " +2.2 "
11+50			1.3	86.0 " " " 2.6 "
T.P.	12.62	99.74	0.19	87.12

12+00		8.0	91.7 ditch 5'N+1.4 deep
12+50		5.0	96.7 ℄ ditch
T.P.	9.93 109.27	0.40	99.34
13+18 = W.L. Froude		6.3	93.4
on initial B.M.		0.86	108.41 = 38

2/10/21 Gregory Miller Shaw

Levels on proposed Drain Abbot & W Pt Loma Blvd
see sketch opposite page for location

	4.56	7.03	2.47	BPSW Voltaire & Abbot
0+00 = ℄ of Lotus		5.4	1.6	
1+00		5.4	1.6	
1+68 - Δ pt		5.1	1.9	
2+18		5.3	1.7	
2+68		5.7	1.3	
3+09		5.5	1.5	
3+18		8.3	-1.3	
3+25		9.1	-2.1	



Gregory
Miller
Shaw

Abbott St Curb Notes

curbs are 6" wide on top 15" deep.

Return is in on West Side Abbott + S. Side of W. Pt. Loma Blvd. put in previous to closing the latter

Returns in on W. Side Abbott at Lotus which were put in previous to closing

Returns in alley W side Abbott between Voltaire + Lotus

From 83.5 to 105.5 S. of Muir on W side Abbott curb should be repaired. Does not need replacing.

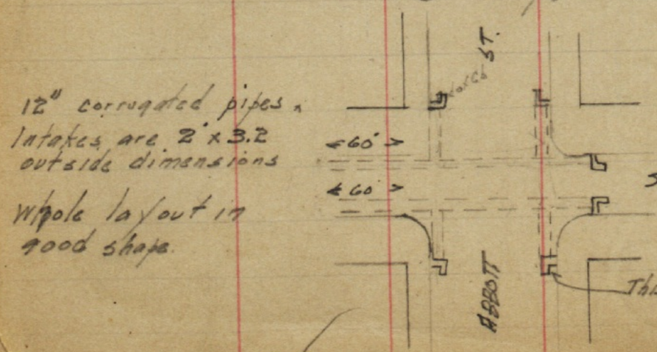
3' of curb on E. End of N.E. return should be repaired

Alley returns not in on either side of Abbott between Long Branch + Brighton. Can't see the necessity of paving the entrances to these alleys anyway. If it is done new curb is necessary from 2' N. + S. of. Alley lines around a 2' radius to the respective lines of Abbott

Alleys between Brighton + Cape May same as above.

Alley between Cape May + Saratoga ditto

" " Saratoga + Santa Monica "



12" corrugated pipes. Intakes are 2' x 3.2 outside dimensions

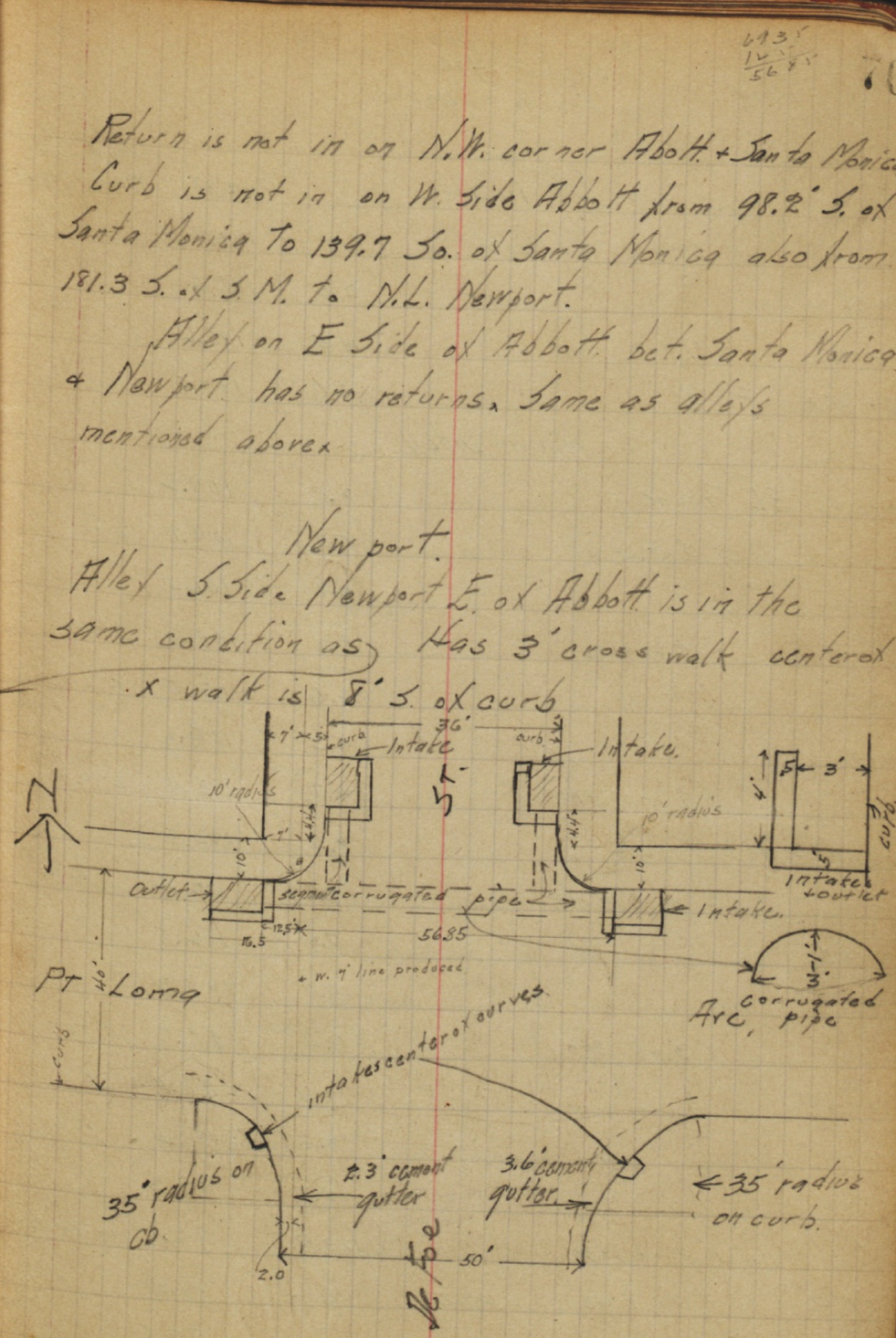
Whole layout in good shape

Return is not in on N.W. corner Abbott + Santa Monica. Curb is not in on W. Side Abbott from 98.2' S. of Santa Monica to 139.7 So. of Santa Monica also from 181.3 S. of S M. to N.L. Newport.

Alley on E Side of Abbott bet. Santa Monica + Newport has no returns. Same as alleys mentioned above.

Newport.

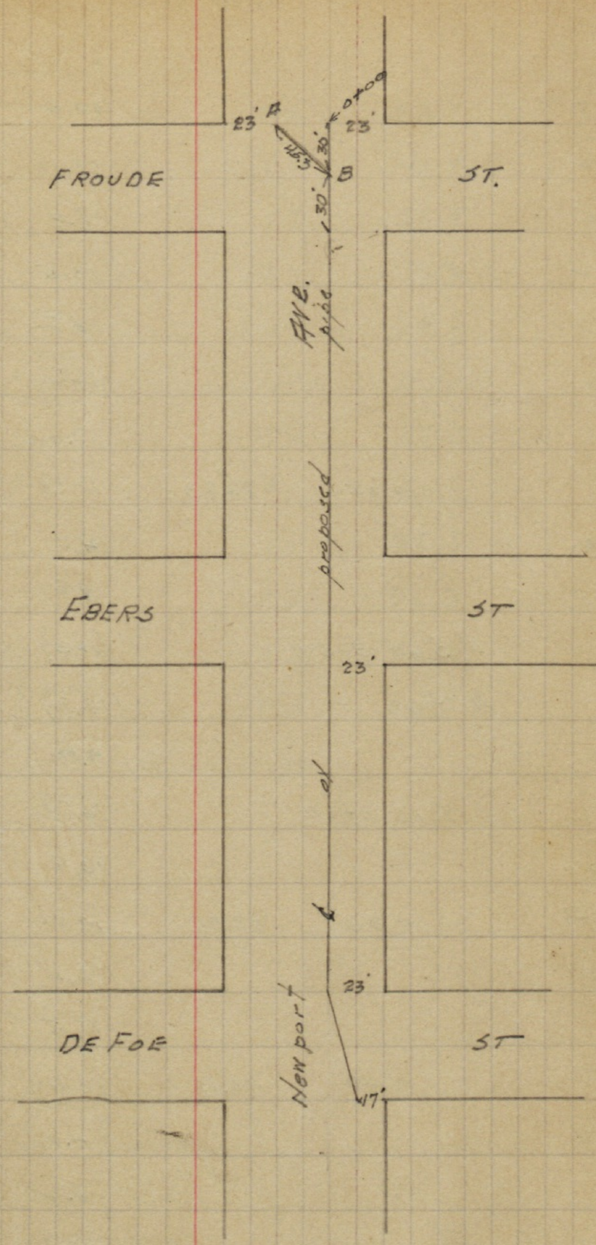
Alley S. Side Newport E. of Abbott is in the same condition as



4/5/ Gregory Moore Miller Shaw

Levels for Drain Newport Ave. from Froude to De Foe

				Mon N.E. Froude + Newport
	1.74	110.12	108.38	
A = EL. Froude 23'5 of N.L Newport.			3.4	106.7
A+22			3.6	106.5
A+41			4.5	105.6
A+45.3 = Pt B.			6.6	103.5
Main Ditch				
			2.9	107.2
0+00 = EL. Froude.			(5.3)	104.8 ditch
5'5 of 0+00			4.1	106.0
0+16			(6.1)	104.0 ditch
1'5 of 0+16			6.6	103.5 ditch
0+30.			5.3	104.8
0+31			(6.7)	103.4 ditch
1'5 of 0+31			6.6	103.5
0+60 = W.L Froude			(7.7)	102.4 ditch
2'5 of 0+60			7.6	102.5
0+65			9.9	100.2
1+00			(11.4)	98.7 ditch
1'5 of 1+00			12.1	98.0 ✓
1+02			13.5	96.6 ✓
1+16			12.9	97.2
1+30			(13.9)	96.2 in ditch
1'5 of 1+30			13.0	97.08
T.P.	0.43	97.51	2.1	95.4
1+50			7.4	90.1
1+99			(11.1)	86.4 in ditch
3'5 of 1+99				



		97.51			
2+01			10.0	87.5	in ditch
2+12			10.4	87.1	" "
2+15			8.4	89.1	
2+32			10.5	87.0	
2+41			13.8	83.7	
2+59			14.4	83.1	
2+60			13.1	84.4	
T.P.	0.05	84.83	12.73	84.78	
3+00			4.4	80.4	
3+50			8.8	76.0	
	4' 3.0 x 3+50		(14.3)	70.5	
	9' " " "		(16.8)	68.0	small prof. of ditch
3+60			9.7	75.1	
	8' 3.0 x 3+60		(16.8)	68.0	
4+00			13.8	71.0	
T.P.	0.36	72.39	12.80	72.03	
+50			6.4	66.0	
5			11.5	60.9	
T.P.	0.40	60.13	12.66	59.73	
+50			4.0	56.1	
6			8.2	51.9	
+59 = E.L. Ebers			12.1	48.0	
T.P.	0.04	47.63	12.54	47.59	
7			1.8	45.8	
+14			2.8	44.8	
+19 = W.L. Ebers			4.6	43.0	

660
13.70

47.63

72

72

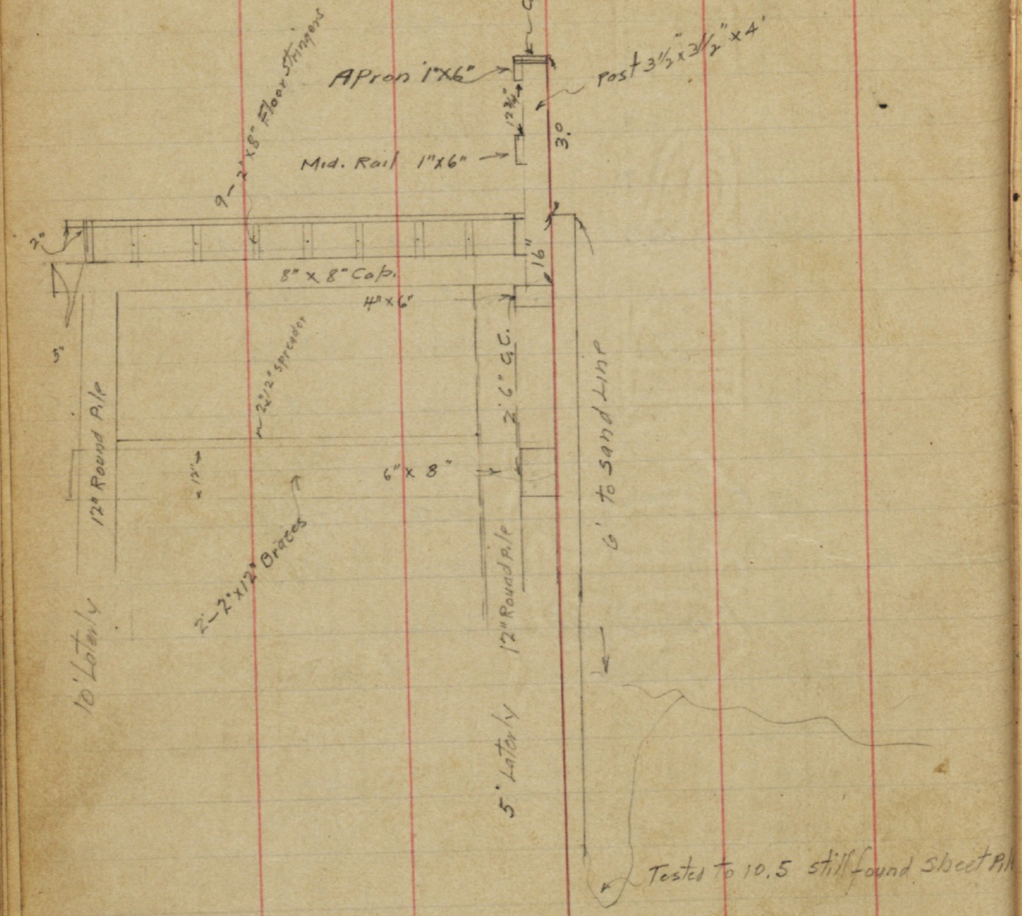
7+33			4.5	43.1
+41			6.2	41.4
8			8.7	38.9
+50			10.4	37.2
9			11.8	35.8
T.P.	0.97	36.67	11.93	35.70
10			5.7	33.0
11			6.1	30.6
12			8.4	28.3
13			10.4	26.3
+18 = E.L. DeFoe			10.7	26.0
9+00+783 = W.L.		✓	12.0	24.7

14' return S.E. of DeFoe

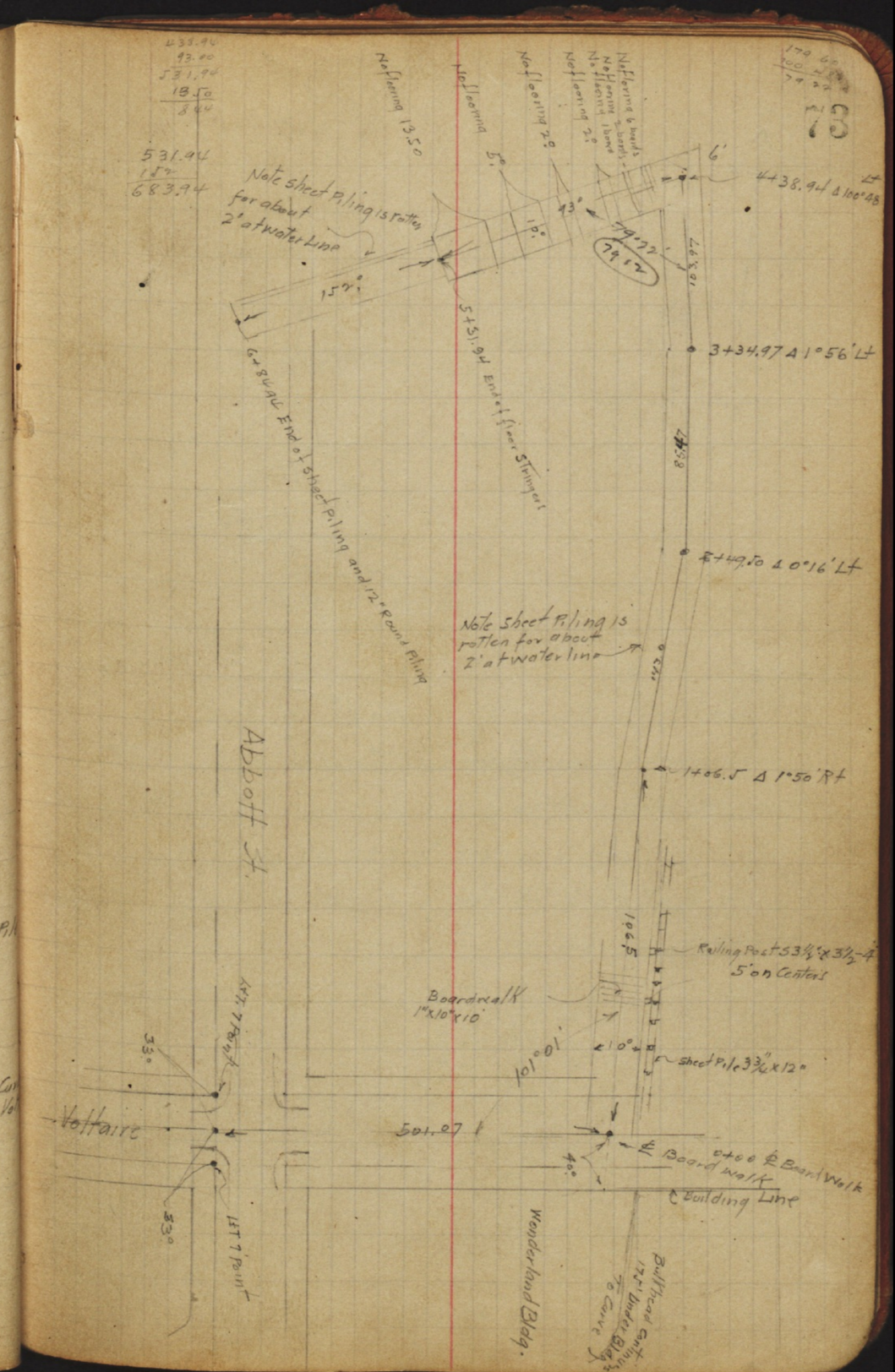
Survey of Bulkhead + Walk Ocean Beach West of Voltair St.
& Wonderland Park

Williams
Dunkle
C. Moore
B. Moore

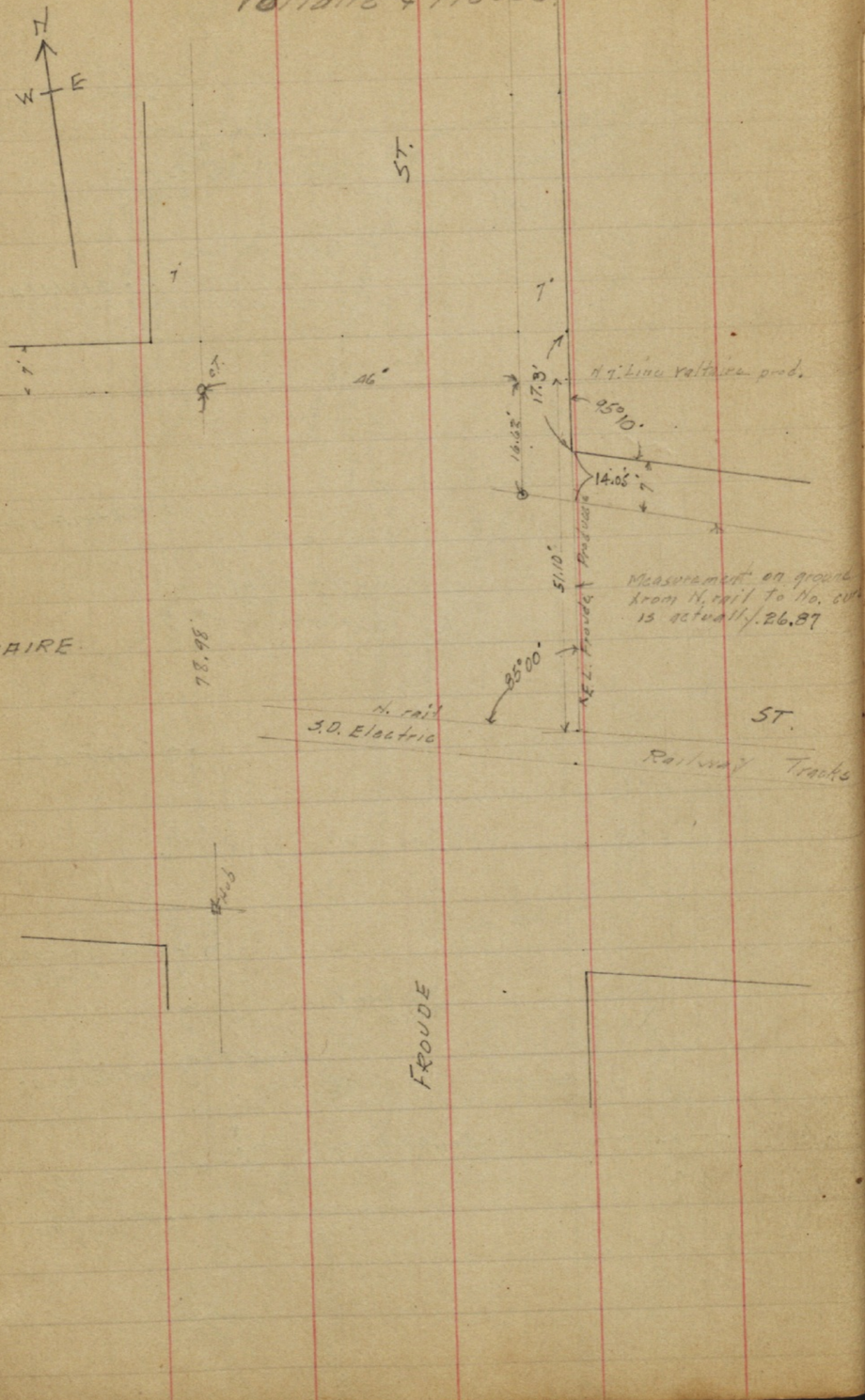
Nov. 1. 1919



Sta	B.S	H	F.S.	Elev.	
	4.0	6.47			
On Top Sheet Piling at Sta 0+00			1.76	4.71	B.M. 2.47 Brass Plug in Cur S.W. Cor Abbott & Va



Location of Car Tracks
Voltaire & Froude.



Location of Pieces of Curb on S. Side of Voltaire between Ebers & Froude.

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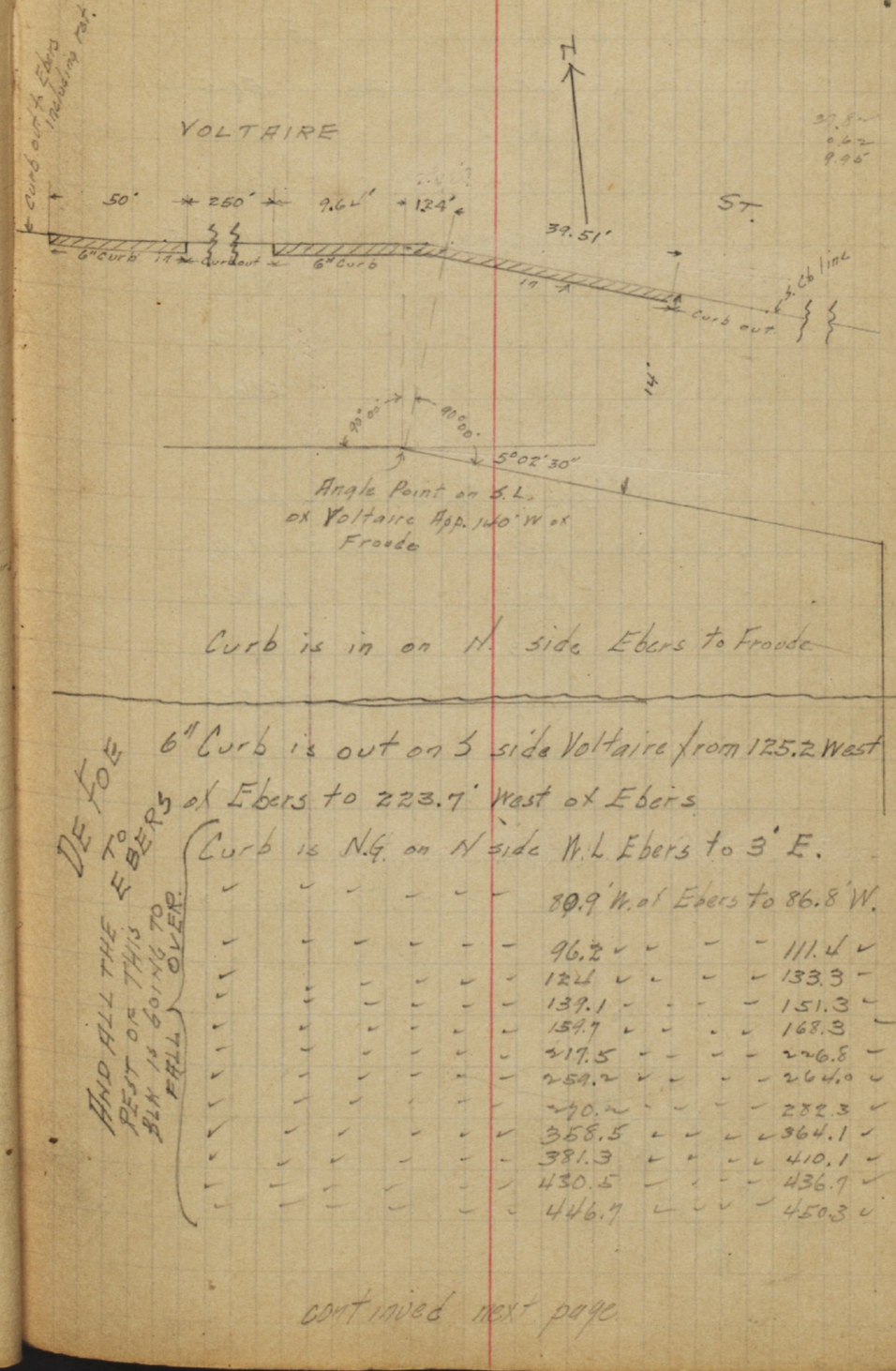


DE FOE

AND ALL THE REST OF THIS BLK IS GOING TO FALL OVER.

6" Curb is out on S side Voltaire from 125.2 West of Ebers to 223.7' West of Ebers

Curb is N.G. on N side W.L. Ebers to 3' E.

80.9' W. of Ebers to 86.8' W.

| | | |

VOLTAIRE ST CURBS

N side Cable to DeFoe

curb is NG from W.L. DeFoe to 4' E.

✓	✓	–	–	–	45' W of DeFoe	to	51.5	W
✓	✓	✓	✓	✓	137.3 ✓	–	144.6	✓
✓	✓	✓	✓	✓	205 –	–	230.8	–
–	✓	✓	✓	✓	276.9 ✓	–	296.5	–
✓	✓	✓	✓	✓	349.1 ✓	–	432.6	–
✓	✓	✓	✓	✓	491.4 ✓	–	498.3	–
✓	✓	✓	✓	✓	502.1 ✓	–	536.9	–

AND ALL THE REST OF CURB ON N SIDE IS GOING TO FALL OVER

N side Bacon to Cable.

DITTO IN THIS BLOCK

curb is NG from 75' W of Cable						to	79	W
–	–	–	–	✓	137.7 ✓	–	144.5	✓
✓	✓	✓	✓	✓	163 ✓	–	171	✓
✓	✓	✓	✓	✓	197.5 ✓	–	216.2	✓
✓	✓	✓	✓	✓	271.8 ✓	–	274.8	–
–	✓	✓	✓	✓	282 ✓	–	285.8	✓
–	✓	✓	✓	–	361.7 ✓	–	365.0	✓
✓	✓	✓	✓	✓	447 ✓	–	451.0	✓

Rhodes says not to replace bad curb.

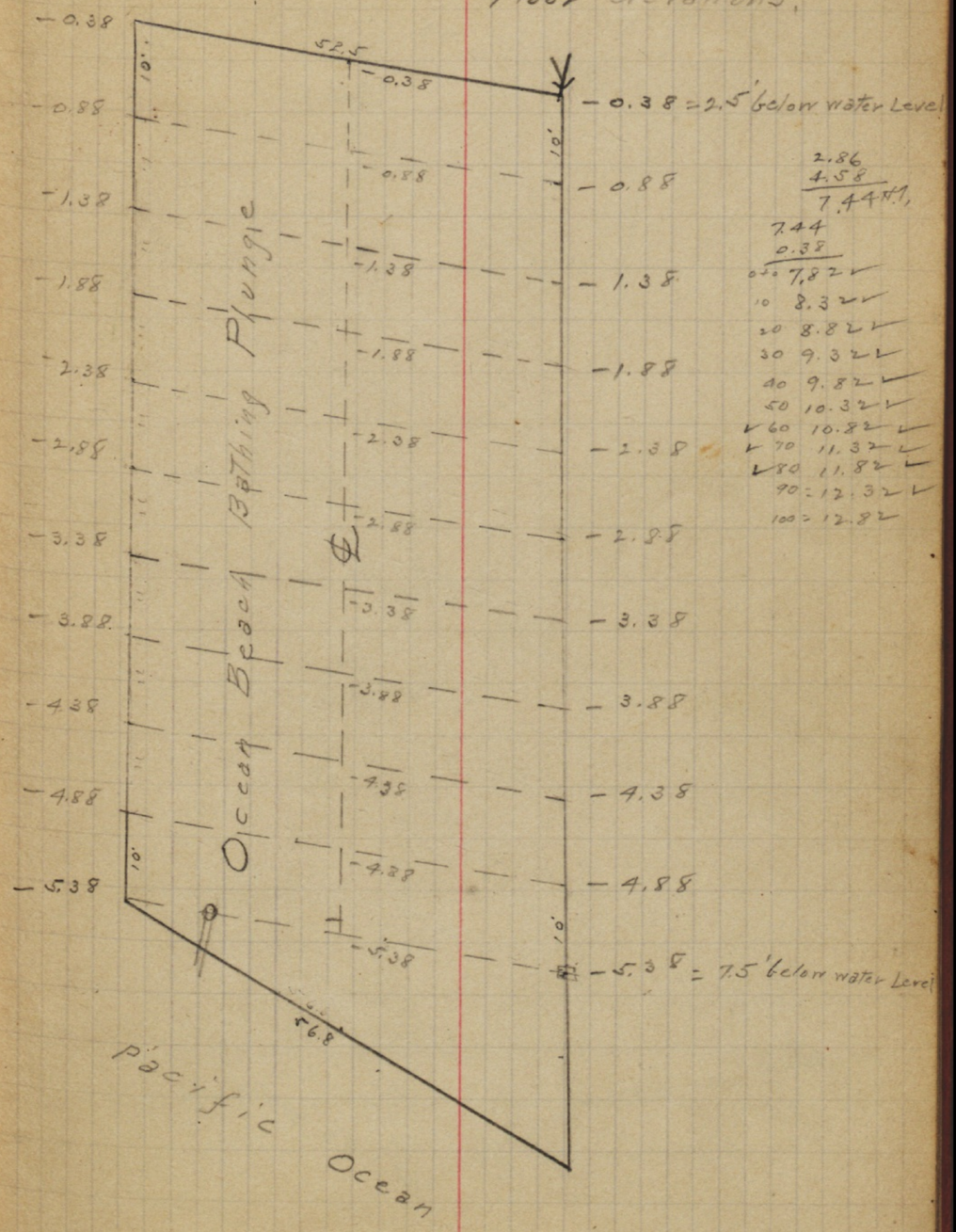
Grades for finished bottom of bathing Plunge

		H.I.		
B.M. N.E. brass plg Abbott & Newport				6.50
T.P.	4.91 6.83	11.41 8.31	9.93	1.48
Cop. TK. in Lead North Cor of old wall			5.45	2.86
B.M.	4.45	7.31		2.86

7/21/19
Dunkle
Shaw
Evans

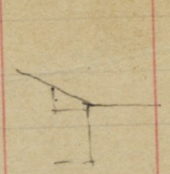
76

Floor elevations.

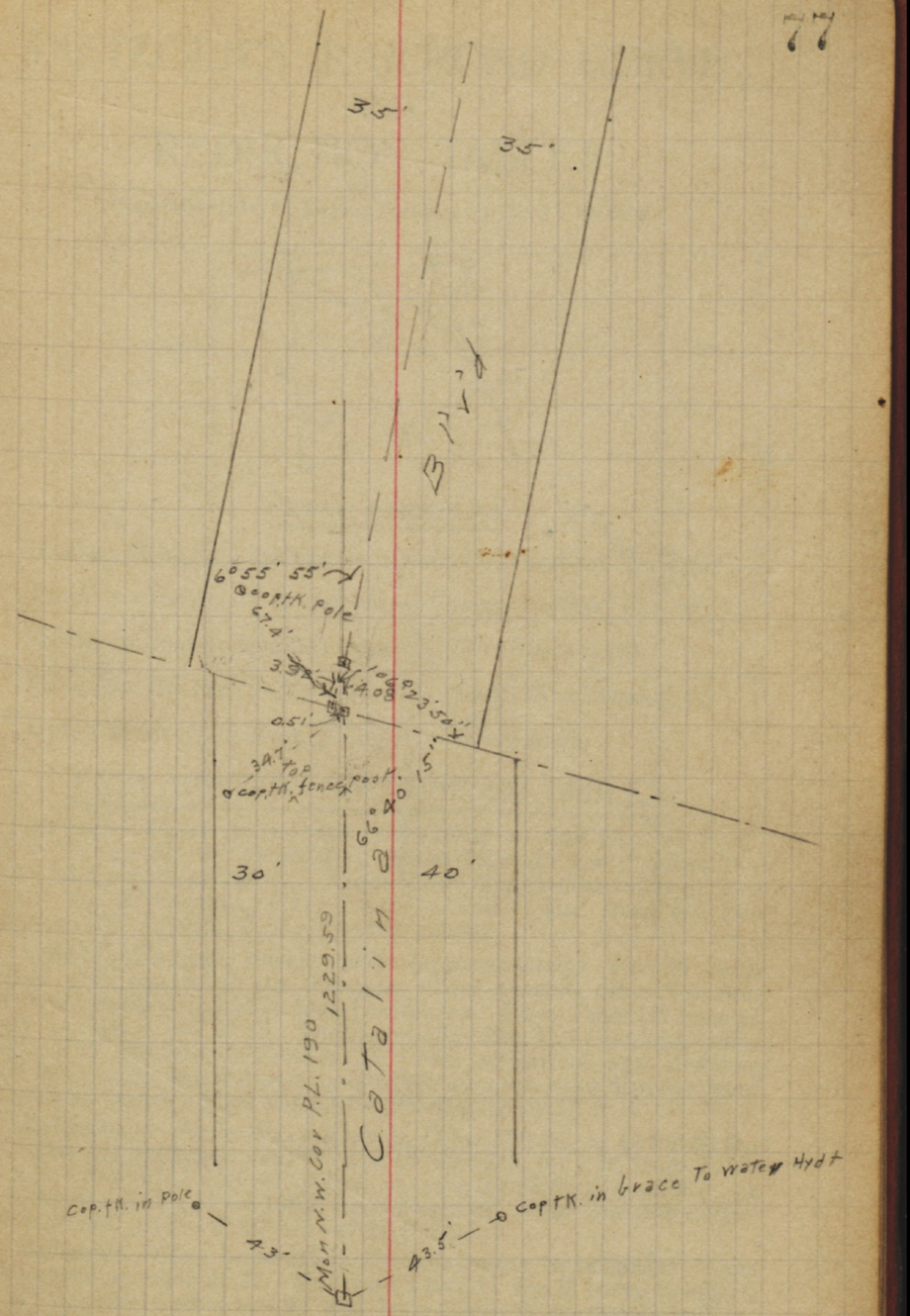


2.86
4.58
7.44 H.I.

7.44
0.38
0.0 7.82
10 8.32
20 8.82
30 9.32
40 9.82
50 10.32
60 10.82
70 11.32
80 11.82
90 = 12.32
100 = 12.82



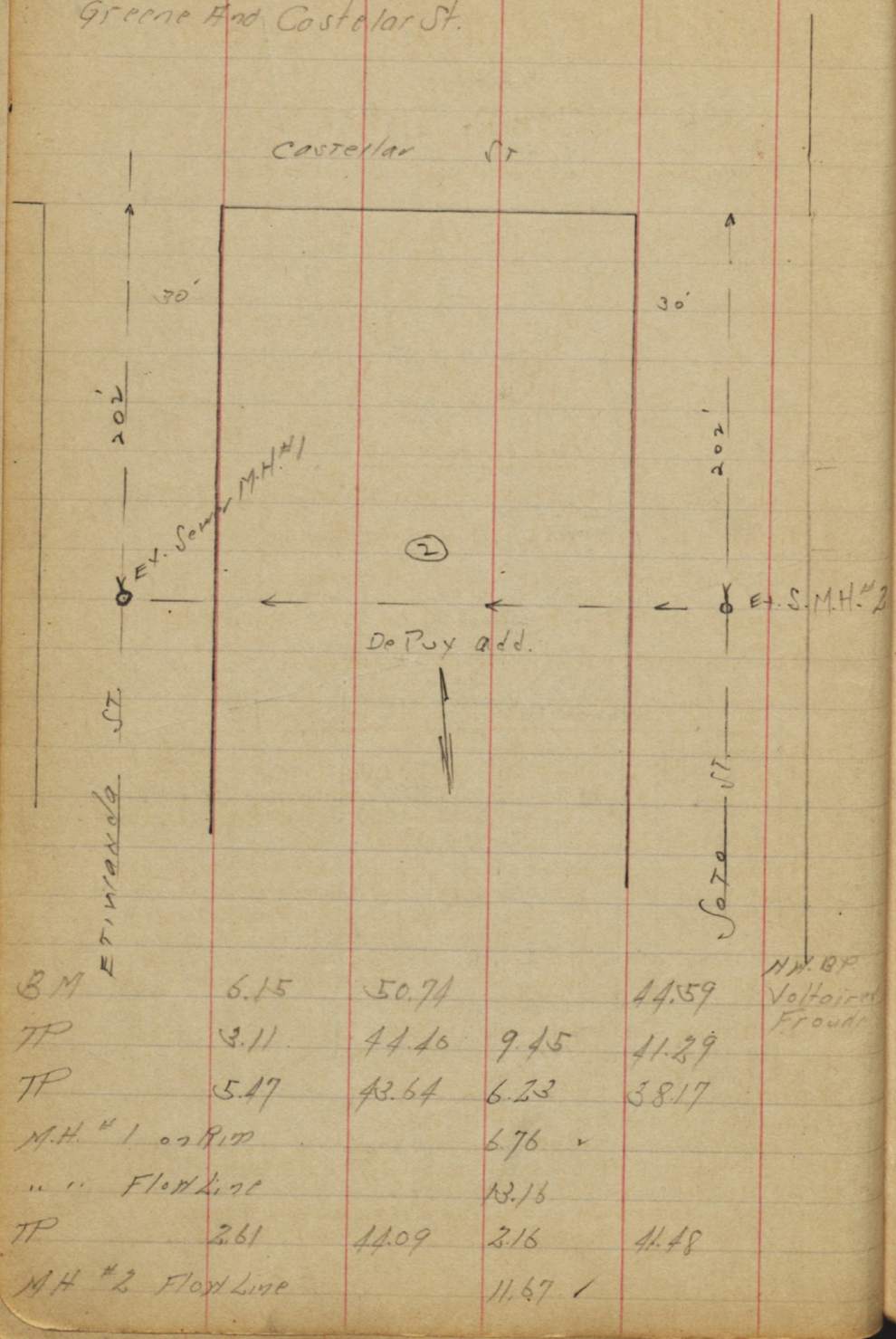
1145
1145


35'
35'
S 11° E
6°55' 55"
Cor. fR.
67.4'
3.3'
4.08
23.54'
0.5'
3.4'
Top
Cor. fR. fence
1.5'
20.29'
30'
40'
Mon. N.W. Cor P.L. 190
1229.59
Catalina
Cor. fR. in Pole
43'
43.5'
Cor fR. in Grace To water Hydt

Sewer Man Hole Et. Wanda + Sotost. Between Greene And Castelar St.

Indexed C.S.R.

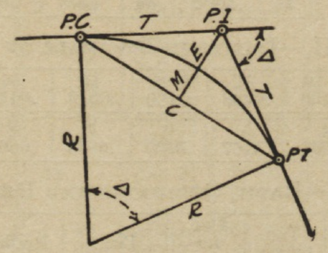
6-12-33 Moore 78



BM	6.15	50.74		44.59
TP	3.11	44.46	9.45	41.29
TP	5.47	43.64	6.23	38.17
M.H. #1 on Rim			6.76	
" " Flow Line			13.16	
TP	2.61	44.09	2.16	41.48
MH #2 Flow Line			11.67	

DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

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



CURVE FORMULAS

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

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

Middle ordinate=M= R(1—cos. $\frac{\Delta}{2}$) (5) =Rvers $\frac{\Delta}{2}$ (6)

External=E=T tan $\frac{\Delta}{4}$ (7) =R cos $\frac{\Delta}{2}$ (1—cos. $\frac{\Delta}{2}$) (8)=Rexsec $\frac{\Delta}{2}$ (9)

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

EXPLANATION AND USE OF TABLES

Stations.—Given P. I.=Sta. 161+60.35 to find Sta. of P. C. and P. T. Δ=62° 10′ D=8° 20′. From Table IV for 1° curve T=3454.1 and ÷8⅓=414.49 ft. From Table V correction=.36 or T=414.85 ft. P. C.=Sta. P.I.—T=157+45.50. Also from (4) L=746.00 and P. T.=Sta. P. C. +L=164+91.50.

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

Deflections.—Deflection angle=½ D for 100 ft., ¼ D for 50 ft., etc. For c ft.=(in minutes) .3 x C x D° or=defl. for 1 ft. from Table III x C. For Sta. 158 of above curve=.3 x 54.5 x 8⅓=136.2′ or 2° 16.2′, or=2.50 x 54.5=136.2′ from Table III. For Sta. 159 deflection angle=2° 16.2′+8° 20′ ÷2=6° 26.2′, etc.

Externals.—May be found in similar manner to tangents. Thus E for curve above is 91.37. For from Table IV for 1° curve E=960.6 for 8° 20′=960.6 ÷8⅓=91.27 and from Table V correction=.10 or E=91.37 ft. Or suppose Δ=32° and E is measured and found to be 42 ft. What is D? From Table IV E=230.9 and ÷42=5.5 or D=5° 30′.