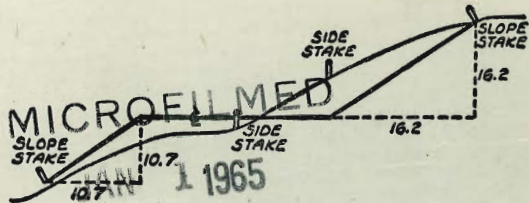


2213

STORM DRAINS

1881



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

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

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.03	.06	.09	.13	.16	.19	.22	.25	.28	.31	.34	.38	.42	.46
15°	.04	.10	.14	.19	.24	.29	.34	.39	.45	.51	.53	.58	.63	.68
20°	.06	.13	.19	.26	.32	.39	.45	.51	.58	.65	.72	.79	.84	.90
25°	.08	.16	.24	.33	.40	.49	.58	.67	.75	.83	.90	.99	1.06	1.14
30°	.10	.19	.29	.39	.49	.59	.69	.79	.89	.99	1.09	1.20	1.29	1.39
35°	.11	.22	.34	.47	.58	.69	.79	.81	.92	1.04	1.29	1.42	1.54	1.66
40°	.13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94
45°	.15	.30	.44	.60	.76	.91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21
50°	.17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48
55°	.19	.38	.57	.76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77
60°	.21	.42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07
65°	.23	.46	.69	.93	1.16	1.40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39
70°	.25	.51	.76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72
75°	.27	.56	.83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09
80°	.30	.61	.91	1.22	1.53	1.84	2.15	2.46	2.78	3.10	3.44	3.78	4.12	4.46
85°	.33	.66	1.00	1.33	1.68	2.02	2.36	2.70	3.05	3.40	3.77	4.14	4.55	4.89
90°	.36	.72	1.09	1.45	1.83	2.20	2.57	2.94	3.32	3.70	4.10	4.50	4.91	5.32
95°	.39	.79	1.19	1.55	2.00	2.40	2.80	3.20	3.61	4.02	4.40	4.85	5.38	5.83
100°	.43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34
110°	.51	1.03	1.56	2.08	2.61	3.14	3.67	4.21	4.76	5.31	5.86	6.43	7.01	7.60
120°	.62	1.25	1.93	2.52	3.16	3.81	4.45	5.11	5.77	6.44	7.12	7.80	8.50	9.22

FOR EXTERNALS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.032	.037	.043	.049	.053	.057	.061
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	.036	.046	.056	.065	.074	.083	.093	.106	.120	.127	.135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.771	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.266	.353	.440	.528	.617	.707	.797	.887	1.07	1.18	1.29	1.39
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.885	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

INDEX

	Pgs
Drive @ Levels - 4650 Van Dyke - street gutter	1
" storm drain - Cushman Place	2
" Storm Drain Cushman Pl. to Rance	7-12
Survey DRAIN, LOT 10 Bk 4 MAP 1875 Canterbury Dr.	13
" " Poinsettia & Curtis (inlets)	16-19
Survey Drain lot 11, 12, 13 - Muldoan	20-23
Elev. 3420 TEXAS ST	31
X-sec. E. Si. Rymosa Drow - Culvert	32-44
SURVEY-EXTEND DRAIN - BALBOA AVE - ELY PACIFIC HIGHWAY	46
X-sec Balboa Ave - Ely Line Pac. Hy. to Fe St. ^{Santa}	50
Intersection Arista St. & Hickory St.	59
Levels along E of Prop. Drain N. Side of Balboa Ave - Morena to Pacific Hwy.	60
Balboa Ave Improvements - X-Sections	69

Levels on Driveway - 4650 Van Dyke

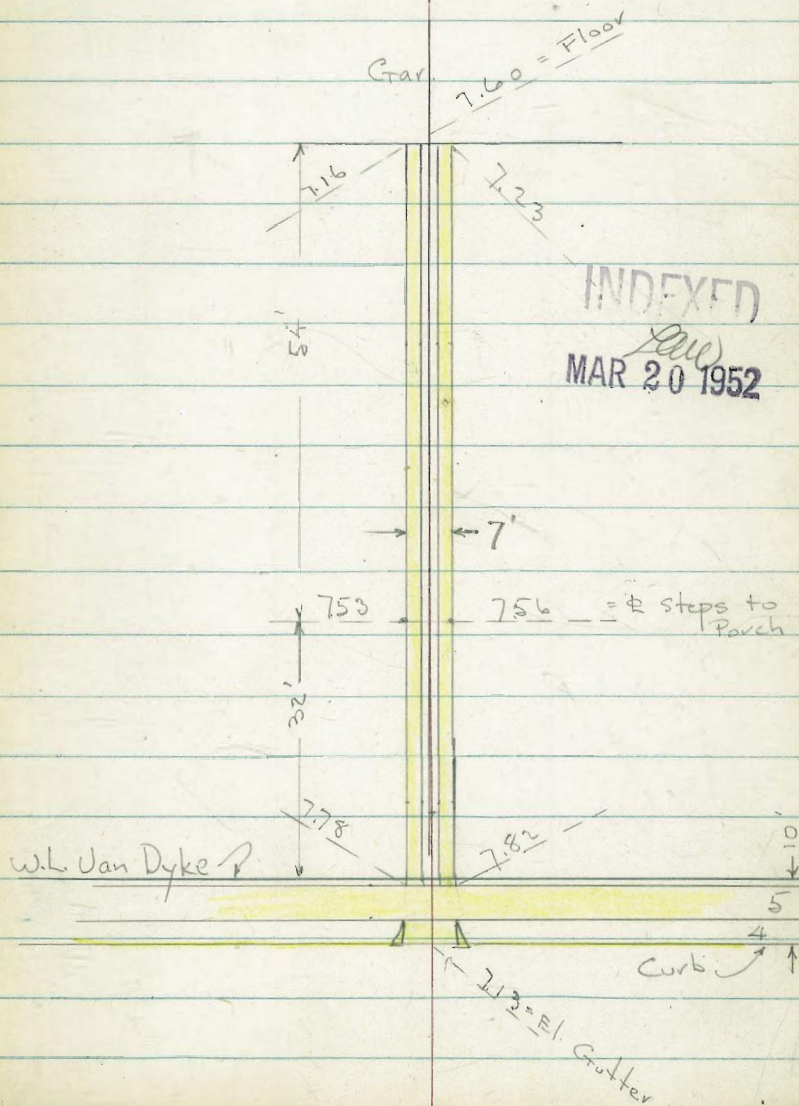
6102

W.O. 20005

3-19-52

7.0

1.



LT

RT

3.

41.8	40.4	40.4	40.2	41.5
11 ⁰	12 ⁴	12 ⁴	12 ⁶	11 ³
25	10		10	25

43.2	41.9	42.0	41.3	42.3	44.1
9 ⁶	10 ²	10 ⁸	11 ⁵	10 ⁵	8 ⁷
35	25	20	7		15

43.4	43.4	43.1	42.69	44.1	44.9
8 ⁴	9 ⁴	9 ⁷	10 ³	8 ⁷	7 ²
30	20	10	14.6	10	25

45.6	44.7	47.6	43.9	45.9
7 ²	7 ³	9 ²	8 ²	6 ²
10		7	19	30

49.1	48.8	48.5	44.9	46.7	46.7	48.6
3 ²	4 ⁰	4 ³	7 ²	6 ⁴	6 ⁴	4 ²
10		30	38	41	48	50

52.2	51.0	50.6	50.5	46.7	50.6
10 ⁶	8	2 ³	2 ³	6 ⁴	2 ³
10		20	35	48	60

0-50

0-20

0-100

0-30

0-75

0-100

TP ₂	9 ²¹	52 ⁷⁶ ✓	0 ⁸³	43 ⁵⁵ ✓
TP ₁	11 ²⁷	44 ³⁸ ✓	0 ⁴⁰	32 ⁴¹ ✓
BM	1 ²⁵	32 ²¹ ✓		31 ⁰⁶

Easterly spike star
pole # PC4787
SW cor. Oshman
Cushman Pl.
FB 1862-60

52⁷⁶ ✓

2719 1° AT & 10' Burr pole # PC 4797

2700

1766 3' Lt begin Barb wire fence

1758

1757 E crosses 8" con wall 45' high

1745^W L. AT 33° 58' taken on split

1740

0775

TR3

3⁴¹

44⁸²

11⁴¹

41³⁵

LT

S

AT

4

39.0	38.8	36.6	36.6
5.8	6.0	8.2	8.2
10		1	20

41.2	41.2	39.1	38.0
3.6	3.6	5.2	6.8
10	3		

40.5	40.5	37.9	37.9	42.0	39.5
4.3	4.2	6.2	4.2	10.2	5.3
10	25	60	42	10	
	end wall	gate wall		Pop 100	

41.1	40.0	39.2	38.8
3.7	4.8	5.6	6.0
10		10	25

41.1	40.0	39.2	38.7	38.6
3.7	4.8	5.6	6.4	6.2
25	10		10	25

41.1	40.2	39.4	39.1	38.7	39.0	39.9
3.7	4.6	5.4	5.2	5.2	5.8	4.2
25	10		10	25	36	50

44⁸²

LT E RT

4714 6¹ Lt Begin Barb wire fence

28.6	28.2	26.0	26.7
32	43	65	58
10	5		20

4700

TP 0⁵⁰ 32⁵⁴ 1278 32⁰⁴ ↓

↗ 32⁵⁴ ↓

3484 12° Lt E 36" Pepper tree

3157 3° Lt end Barb wire fence

31.3	29.9	28.5	29.3
13 ⁵	142	153	15 ⁵
10	2		20

3150

3700

34.7	34.0	32.7	33.1
10 ²	10 ⁸	12 ¹	11 ²
10		3	20

2779 4° Lt E 10" Power Pole # gone

2777 12³ Lt end wooden Bldg

2750

37.4	36.8	35.2	35.2
7 ⁴	8 ⁰	9 ⁶	9 ⁶
10		2	20

2745 12³ Lt Begin wooden Bldg

↗ 44⁸² ↓

BM starting

430

31⁰⁹ 31⁰⁵

TS

136

35-39

138

22-23

6400 waters edge

5150

5725 E crosses barb wire fence

5120

5104 92 RT to nearest car roofers storage yard

5100 E Crosses Barb wire fence

TP

154

2361

1042

2202

400521 on Pub.

4185 21 L. Lt 25' 00' 90° to bk line

41

4150 10⁵ Lt E 12" Pepper

4117 11⁴ Lt E 8" pepper tree

LT

10.6

9.4

9.2

13⁰

14²

14⁴

9.3

7.9

20

10

water level

10

23

10.7

12.0

12.6

10.3

9.8

11.8

8.51

9.7

11.6

10.0

10.3

9.8

11.8

7.8

15

3

10

18

23

30

Reduced By C.P.L. 4-2-52

17.0

16.2

15.9

19.2

16.5

6.6

7.4

7.2

10.0

7.4

10

6

11

17

19.2

17.9

14.5

16.6

4.4

5.2

9.1

7.0

10

9

14

2361

20.2

22.0

24.1

12.3

9.5

8.4

10

15

24.3

24.4

24.6

8.2

8.1

9.9

10

20

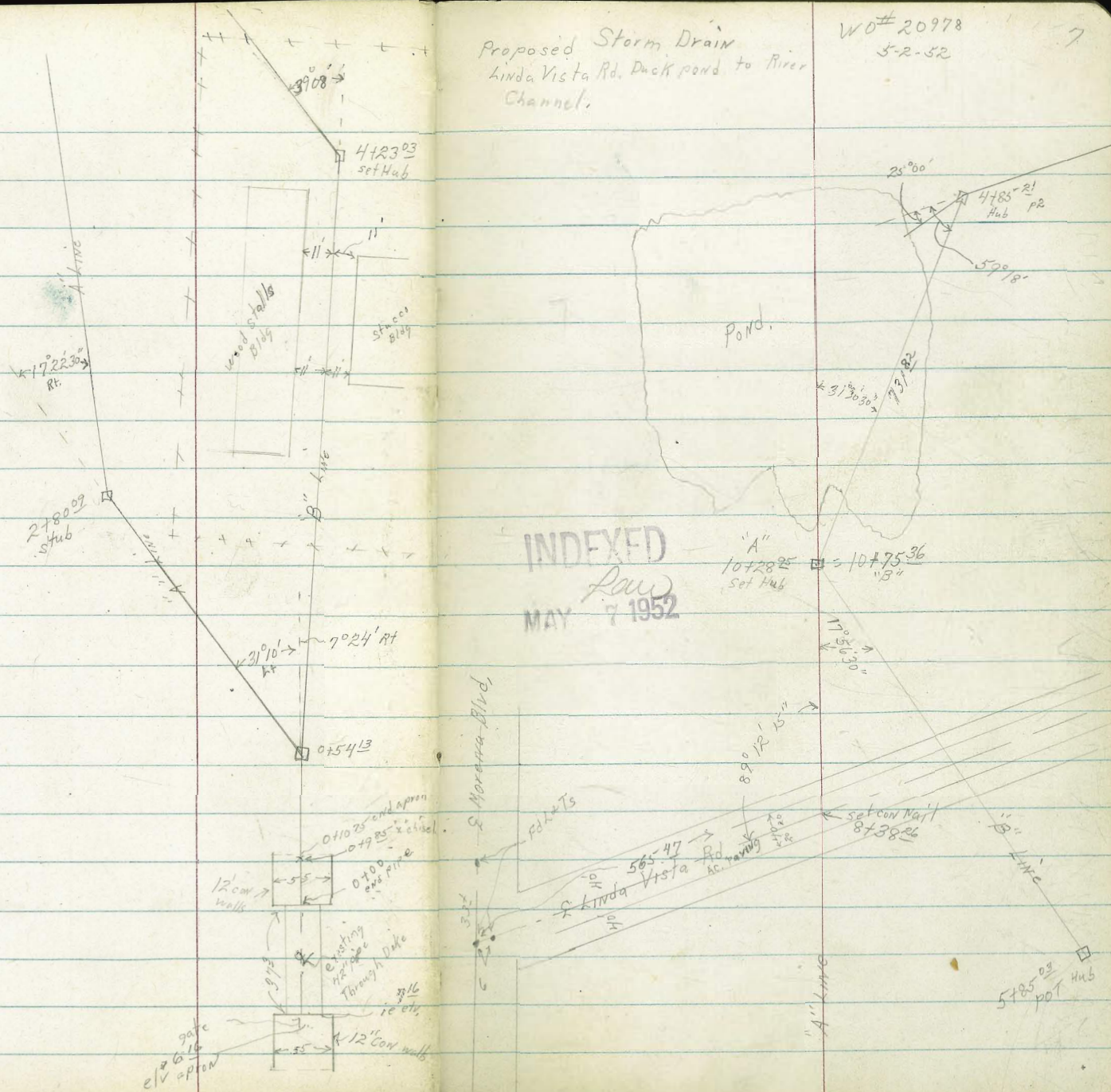
3254

D. Smith
C. Allen
R. Taylor
R. Parks

Proposed Storm Drain
Linda Vista Rd. Duck pond to River
Channel.

WO# 20978
5-2-52

7



Lt=West Rt=East

1754 7° RT SW Cor fence

3750

65° 62° 74°
20 20

1750

103° 106° 102°
20 20

3700

62° 64° 65°
20 20

1700

106° 110° 107°
20 20

A" Line 31° 10' Lt

82°

17° 22' 30"

2780° Lt Rt

65° 67° 66°
20 546 20

0754¹³ L.

110° 113° 116°
20 463 20

2750

44° 52° 60°
20 20

0725

103° 112° 112°
20 20

2700

54° 65° 90°
20 20

0710.75 end cor aprow

1219

1780

62° 66° 80°
20 20

0700

1232 1208 625
9' prov 16' 1/2" pipe Top Hand wall

TP 716

1952

564

1243

1764

93° 92° 105°
20 20

BM 382

1809

1427

E Lt
Morena Blvd
Linda Vista Rd.

1959

Lt. West Rt. = East

7100

42 50 48
20 20

6750

42 42 42
20 20

6700

54 53 55
20 20

5750

52 52 52
20 20

T₂

452

1812

522 1367

5700

62 68 73
20 20

4750

73 81 84
20 20

4700

71 73 72
20 20

T 1952

Lt = West

Rt = East

8757 berm

40

8756 paving edge

462 455 441
20 20

8735²⁶ E Linda Vista Rd

414 402 392
20 20

8721 paving edge

473 446 429
20 20

8720 Top berm

400

8700

42 42 44
20 20

7750

46 45 45
20 20

T 1819

Lt = West & Rt = East

Lt = West & Rt = East

3750 4² 4² 4²
" " "

3700 4³ 5¹ 4³
" " "

2750 4⁶ 5¹ 4⁴
Stucco Bldg " "

2149 11² RT SW cor Begin AC paving Btwn stables

2114 SE cor 11² RT wooden Bldg stables

1000

10728 ⁹⁵

9²³
9⁶ 8²⁷ 9³
20 Hub 20

10400

8⁴ 8⁶ 8²
20

2700 4³ 5³ 4⁴
20 20

9750

6⁵ 7⁵ 7⁸
20 20

1758 crosses rail fence

1750 4⁴ 5³ 4⁴
20 20

9700

5⁶ 5² 6² 6⁵
20 70020

1700 4³ 5² 4⁵
20 20

8765

5³ 5⁹ 6⁵
20 20

"B" line

Hub 0754¹³ 522 13⁴⁴ 8²²

18¹⁹

Lt=West 9 Rt=East

5750 6⁸ 5⁰ 3²
20 20

5746 Crosses Barb wire fence

5735 8⁸ 7⁴ 5⁸
20 20

5700 10⁸ 10² 10²
20 20

4750 11⁶ 11⁸ 11⁵
20 20

TP' 11²⁸ 20⁶² 4⁰³ 9⁴¹

4423⁰³ Lt 39°08' 3⁸ 4⁰³ 4³
Hub 12 20

4417 11²⁴ NE cor 4⁴ 4² 4⁶
Wooden Stables 11 11
End AC on C/D lay

4700 4⁴ 4² 4⁶
11 11

3786 11° RT NW cor 13⁴⁴

Lt=West 9 Rt=East 11

8750 2⁴ 1² 1²
20 20

TP² 2⁴² 16⁷⁶ 6³⁵ 14³⁴

8700 7⁰ 6² 6²
20 20

7750 6² 5⁵ 5⁵
20 20

7700 6² 5⁶ 4⁰
20 20

6750 5⁵ 3⁶ 2⁰
20 20

6700 4⁰ 2⁵ 0⁴
20 20

5785⁰³ POT 5² 2⁶⁵ 0²
20 Hub. 20
20 69 20

	Lt-West	RT-East
10400	6 ²⁰	6 ²⁰
9450	42 ²⁰	42 ²⁰
9448 36 Lt Northside Sign Board		
9402	5 ²⁰	32 ²⁰
8494 Berm		2 ⁰
8493 paving Edge	2 ²⁰	24 ²⁰
8474	2 ²⁰	1 ²⁰
8455 edge paving	2 ²⁰	2 ²⁰
8454 Berm		2 ⁰
	π	16 ⁷⁶

	Lt-West	RT-East	12
4183 ²¹ Hub PL			22 ⁰⁷
TP ³	12 ²²	22 ³³	0 ⁵⁶ 21 ⁹²
BM starting			7 ⁰⁵ 9 ²¹
			341 1426 1427
			10 ⁴
			10 ²
shots in pond pit →			9 ⁶
10455 waters edge			8 ⁷
10428 ²⁵ A			9 ²²
= S			7 ⁵⁴
10475 ³⁶ B			Hub
10450	7 ²⁰	7 ²⁰	7 ²⁰
	π		16 ⁷⁶

SURVEY, DRAIN (CONT.)

check: 3.08 363.85[↓] = 363.86 = SW □ Hempstead + Canterbury

T.P. 9.74 366.93[↓] 0.89 357.19[↓]

T.P. 11.72 358.03[↓] 0.52 346.36[↓]

T.P. 11.46 346.88[↓] 0.20 335.42[↓]

Reduced By CPL 6-16-52

10.6 5.0 DOWN E CANYON

HAND level

288.5

0+85 29' DOWN E CANYON (INT. $\angle = 123^{\circ}42'$ see sketch)

HAND Level

309.6

0+56 E. OF EASEMENT meets vertical bank

324.1

0+48.50 Bottom DRAW 6.18 329.44 (on 2x2)

+ 5.0
10 329.4

3.0
5 332.4

6.2 324.8

8.3 327.2

8.0 327.6

0+43.50

+ 6.0
10 331.6

1.6
5 334.0

4.8 331.2

5.5 330.5

7.5 331.4

T.P. 0.20 335.62[↓] 11.38 335.42[↓]

335.62[↓]

Elev. of Inlets. Pannettia & Curtis Sts.

BM = 10' Prop. Disk W.O. 21002 149.43
 Inlet 1 -

15' E. of end of Wings 50.18 49.34 49.53
 Top got edge

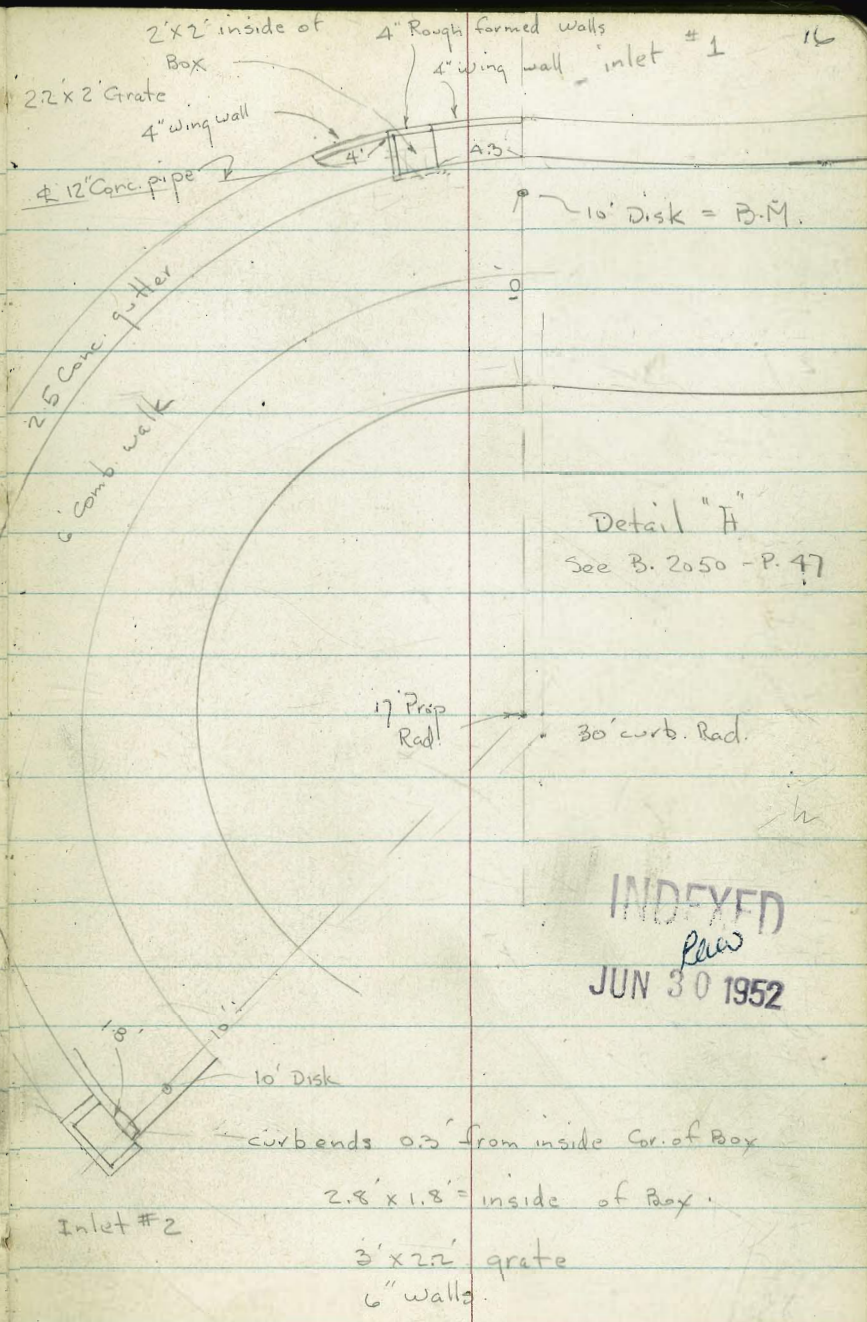
1' E. of Prop. PC. = cb. PC.
 E. end of wings 49.43 48.62 48.83
 Top got edge

Ely. of Box 49.14 47.93 49.05
 Top apron Cor. of grate

inside face
 wly. of Box 49.01 44.77 43.67 48.94
 Top I.F. Bot. of
 cb. of Pipe Box Cor.

w. end wings. 48.76 47.87 47.87
 Top got. edge

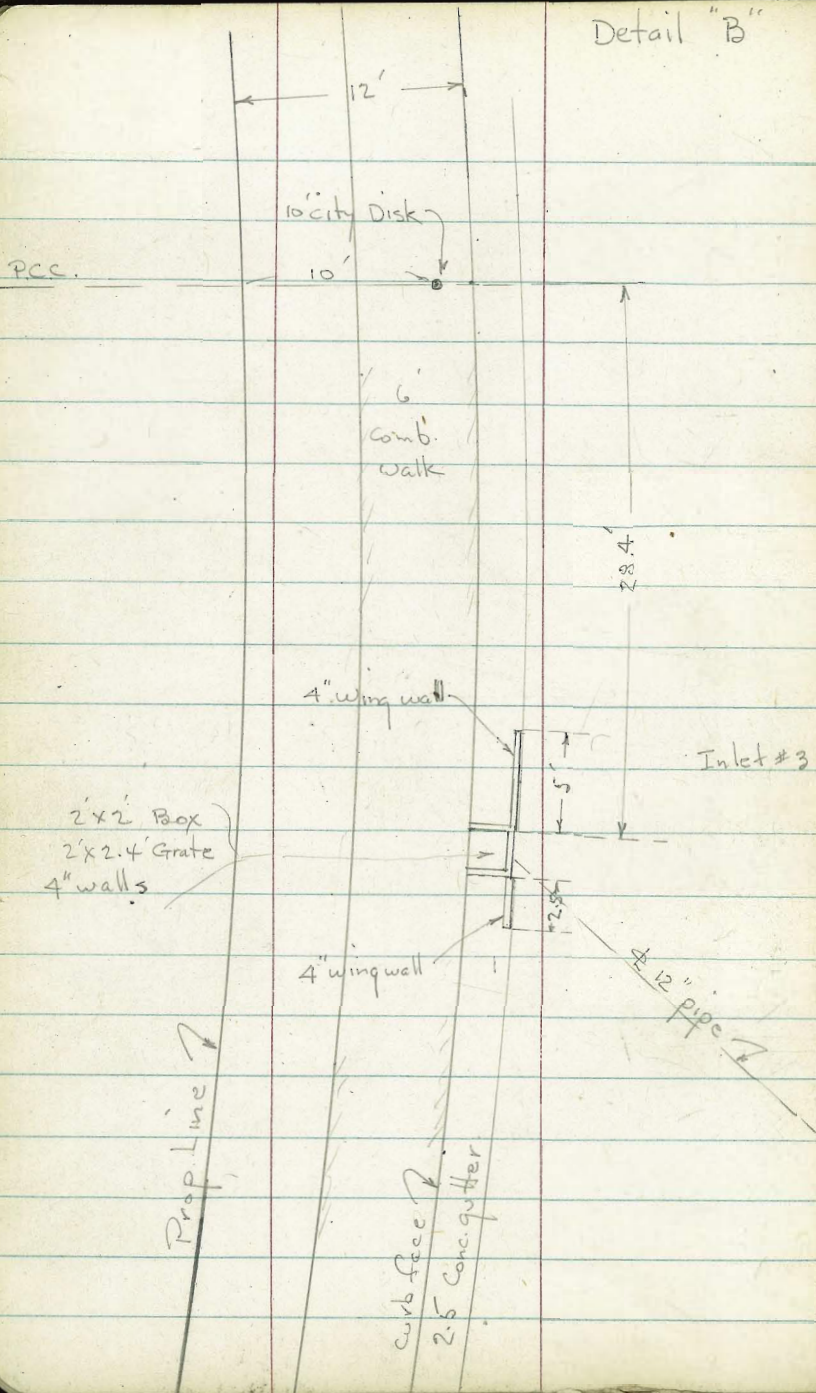
See B. 2050-P. 45 for Elev. of
 Inlet #2



Detail "B"

Elev. - Inlet #3.

17



Wings 15' E. of E. end of	51.09 Top	50.34 g.t.	50.42 outside edge g.t.
E. end of wing wall	50.35 Top	49.64 g.t.	49.71 edge
Fly inside of Box	50.10 Top	48.97 apron	50.07 outside Cor.
Wly. inside	50.02 Top	46.06 I.E. of pipe	45.22 Bot. of Box
Wly. of wing wall	49.89 Top	49.13 g.t.	49.28 edge
wing wall = Beg. Drive 4.5' Wly. from end of	49.71 Top	48.99 g.t.	49.11 edge
20' Wly. from end of wing. = end Dr.	48.98 Top	48.25 g.t.	48.36 edge

Detail "C"

Scale = 1" = 10'

± of pipe on cb. line
Prod. Here

Inside Box
1.6' x 1.8'

Grate = 1.6' x 1.9'

4" walls

± of 18" Conc.
Pipe

4.5' Long.
8" Headwall

6" Wing wall
3' Long.

2.5' Conc. out.

5' Comb walk.

= Inlet # 4

+ Rough wing walls
Conc apron

5'

6" wall

13.6'

13.5'

80'

Prop. P.C.

curb. P.C.

outlet # 5

Elev. of Inlet # 4

18

15' E. along curb. from
Ely. of 6" wall to inlet

42.37

42.6

Top

gut = dirt

Ely. of Conc. apron

42.01

41.81

41.95

sly.

±

wly.

Ely. of 6" wall + inside of
Box.

42.42

42.60

41.65

42.70

Top cb.

Cor.

±

outside

+ wall

Box

apron

Cor.

± of Box

37.79

39.46

Hole knocked in top of
(10" Diam.) pipe for inlet.

I.E. of

Bottom of Box

18" pipe

wly. of Box

42.52

42.62

sly. Cor.

wly. Cor.

curb. at Prop P.C.

41.22

40.7

Top

gut.

Outlet # 5

15' E. of end of pipe

37.93

37.4

Top

gut

wly. of 8" Headwall

36.41

35.97

34.11

35.92

Top

cb

Top

W. end.

wall

I.E. of

wall

Pipe.

wly. of wing wall

36.03

34.06

34.20

Top

gut.

= gut + end of wall

Cont. P. 19

Cont. from P. 18

19

16' Wly. from end of pipe	34.75	34.02	34.08
= Brk. in gutter.	Top	gut.	edge

36' Wly. from end of pipe	32.70	32.04	32.16
	Top	gut.	edge

Proposed extension of Drain
 Lots 11 to 13, B1K D, Montclair
 See sketch page 20.

0-14 - top Bank

Curb inlet east side Boundary

Curb inlet Wly side Boundary

3.41	285.21 [✓]	12.71	281.80 [✓]
0.36	294.51 [✓]	12.77	294.15 [✓]
0.47	306.92 [✓]	12.55	306.45 [✓]

BM 0.99 319.00[✓]

NWAP Gregory
 and Thorn
 318.01

Lt = East

Rt = West

2821	2830	2832
25	25	19
10	10	10
ON Top Bank	ON Top Bank	ON Top Bank

Top Curb = 2.57 ²⁸²⁶⁸

Grate = 3.54 ²⁸¹⁶⁷

IE = 9.57 ²⁷⁵⁶⁴

Top Curb 1.29 ²⁸³⁹²

Grate = 2.27 ²⁸²⁹⁴

IE = 6.50 ²⁷⁸⁷¹

285.21[✓]

0475

0450

0437 - Proposed line Crosses 18" ditch

TP, 2.22 277.20 10.23 274.98

0425

0400

Lt - East

Rt - West 22

2717	2698	2723	2730
55	74	49	42
26 Toe	13 18" ditch		109 Toe

2730	2719	2738	2728
42	53	3	44
19 Toe	6' 18" ditch		10 Toe

2718
54

277.20

2746	2744	2722	2750
10 ⁶	10 ⁶	13 ⁰	10 ³
13 ⁰ Toe		1 18" ditch	10 ⁰ Toe

2832	2718	2842
15	13.40	10
16	14	18

285.21

Start BM

(318.01)

TP BM 1.25 317.99[✓]

TP 11.31 319.24[✓] 0.15 307.93[✓]

TP 12.33 308.08[✓] 0.70 295.75[✓]

TP 11.21 296.44[✓] 0.64 285.24[✓]

TP 10.90 285.88[✓] 2.22 274.98[✓]

1438

10³

1415

9⁸

1410 = ...

7⁸

1400 - Canyon angles approx 20° Rt

270 270
69 88
30 13
Toc 10" distal

0+95 - 6' Rt - 6' SMH

270 27
69 3
6
R. in SMH

277.20[✓]

Levels along \pm of Prop. Drain

See Sketch - P. 24.

Lt. \pm Rt.

	Lt.	\pm	Rt.
Water must seep out - No Drain found by Church			
1+40 = end in Alley - cuts along Alley - Normal	55.5 25	52.50 on Stub.	52.8 30 low point
1+27.3 = Cross Lath fence along Alley		52.7	53.1 55 75
1+00	55.2 14	53.8	53.0 20 53.7 40
0+75 - 7' Lt. = fence	57.1 12.5	55.1	54.2 10 53.9 20 54.7 40
0+62 - 9.2 Lt. = Cor. of Old Shed.	By Shed. 63.2 = floor. 9.2		
0+50	63.3 13	56.3 Toe	55.4 10 55.4 25 56.1 35
0+43 - Cross wire fence	Top		
0+25	62.9 10	58.0	56.5 3 Toe 56.4 10
0+02 = end of Apron & Wing walls	65.6 10	57.07 3.8 apron at end of wing wall	57.07 3.8 = apron at end of wall 60.3 10
32" 8" Conc. Headwall + 2.8' Wing walls. - Cond. apron to end = cut on Top of Box 8" Bevel - top corners.			
0+00 = \pm of Outlet of Conc. Box 3' wide + 2.25' High		57.27 I.E. = Apron	60.57 = Top - on cut 68.66 = Cross
Cross on 10' Line			
I.E. of inlet of 16" Conc. pipe			61.89 I.E. of pipe
B.M. = Sw. Top of Hyd.	75.24	75.22 = Book	
32 nd + Franklin Webster + 32 nd From Sw. 10' ct.	85.12		

Roberts
Cota
Moore
Pollen
2-6-53
No. 21077

Survey to Extend Drain Lot 3/ C.H. Tingey
43rd & Meade

Map 1941

TP 3570 & 3679

Meade: ∞

80' Street
50' Roadway
Ac. Paving
5' Curb face to Walk
5' Walk

43rd: ∞

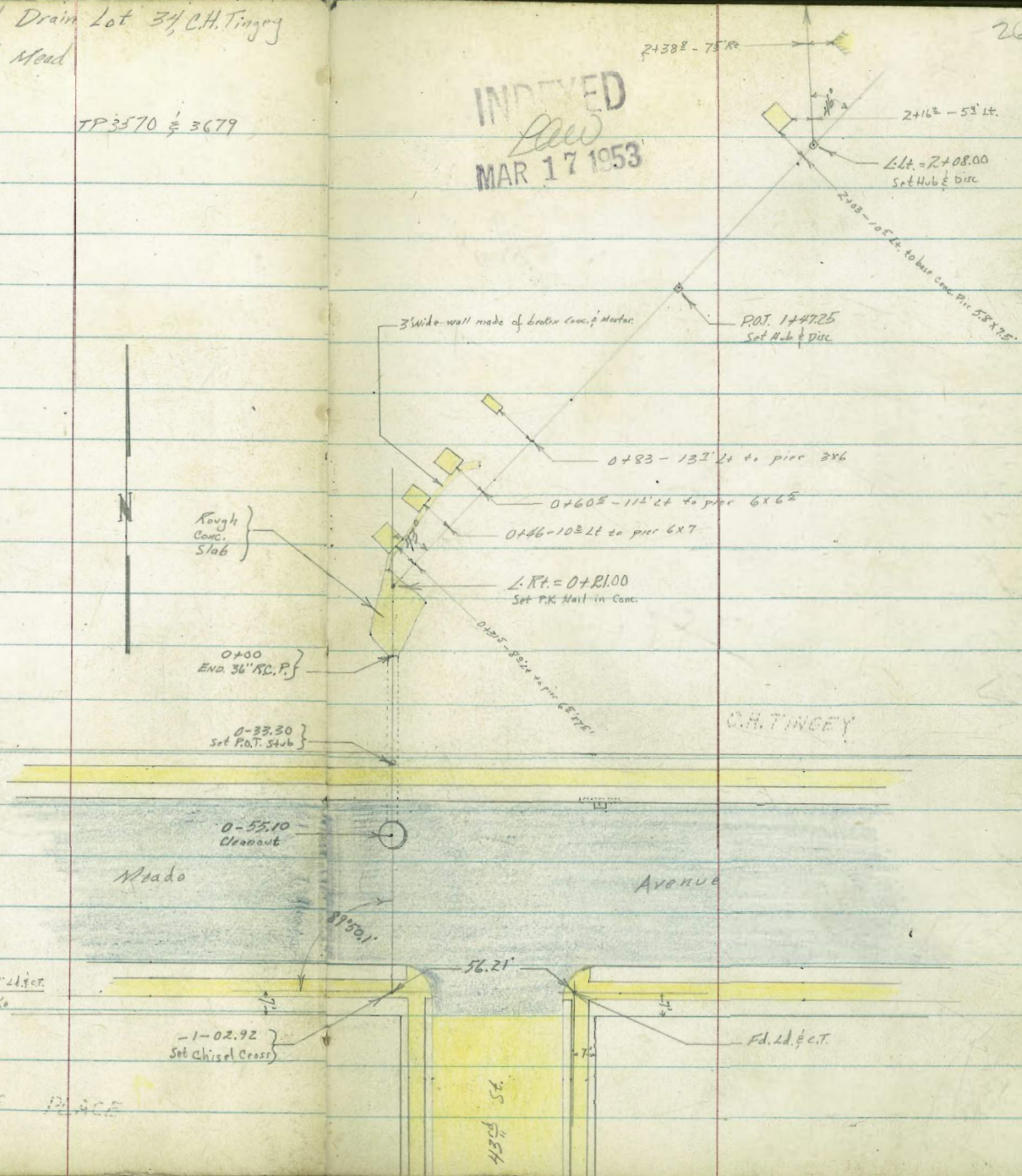
60' Street
40' Roadway
Conc. Paving
2' Curb face to Walk
5' Walk
10' Curb Radius

63.82
+0.6
10' inlet on chline

HILSHIRE PLACE

INDEXED
MAR 17 1953

26



0+21 - ANGLE POINT RIGHT

12.13
conc

325.74

0+17

REMOVED BY R. BARBER
2-9-55

322.97	322.77	322.61	322.22	320.65	320.67	320.67	320.44
10.4	13.1	9.26	9.45	11.22	12.25	12.20	11.43
10	4	4	2	conc	23	7	10
GRD	GRD	conc.	conc		conc	conc	conc

0+07

322.40	320.54	320.16	320.22	320.76
9.27	11.33	11.71	11.65	11.11
7	2	conc.	3	5
conc.	conc.		conc	conc

0+00

Concrete Spillway begins here. Very rough Construction.
END OF EXISTING 36" R.C.P. STORM DRAIN

327.72	326.91	322.28
10.15	10.96	9.59
2	INVERT	3
conc.		conc

T.P.

0.33 337.87 ✓ 12.32 337.54 ✓

337.87 ✓

0-55.10 Cleanout in Meade Avenue

349.70	329.85
1.96	20.01
Kim	Invert

T.P.

1.61 349.86 ✓ 5.01 348.25 ✓

349.86 ✓

SE. 747.21 ECT
Meade & 73rd

T.P.

1.09 353.26 ✓ 12.77 352.17 ✓

BM

0.47 364.94 ✓ 364.47 ✓
N.W. B.P.
Meade & Copeland

Cont'd From Page 27

0+64.5 5' Lt near edge of end of wall.

0+60.5 11' Lt to near edge of Pier
4 3/4 Lt & Water Main

0+60 2' Rt to center 10" Acacia Tree

0+47

0+46 10 1/2' Lt & pier's near edge.

0+40

0+31.5 8' Lt to near edge of pier.
11 1/2 Lt to & Water Main

0+26

0+25 Lt begin of broken Conc & starter wall

0+23.5 EDGE ROUGH CONC. SPILLWAY

337.87A

Lt

Rt

Page 28

325.87	325.87	322.87	323.57	323.57	326.97
12.0	12.00	15.0	14.3	14.3	11.4
10	5	5	7	7	12
GRD	Top wall		Top		

326.64	329.97	325.17	325.17	327.17
11.23	12.9	12.7	12.7	10.7
7 1/2	7	6	6	10
Top wall		Top		

324.57	325.07	324.77	325.97	326.97
11.2	12.8	13.1	13.4	8.9
7 1/2	7	5	5	12
Top wall		Top		

326.27	329.87	327.54	322.17	323.37	324.57	324.57	328.17
4.6	12.0	10.33	14.7	14.5	15.3	15.3	9.7
10	7	4	3	6	8	8	12
GRD	GRD	Top wall			Top	Top	Shpr

326.37	325.17	327.71	327.84	329.22	329.88	325.17
11.5	12.7	10.16	10.03	12.99	12.99	12.70
10	4	4	2	1	conc	8
GRD	GRD	conc	conc	conc		conc

337.87A

1752

328.90

4.2

17°

Water
Main
(Shot on top
Good for GRD)

327.90

5.2

7

324.00

9.1

319.90

13.2

7

320.70

12.4

14

Toe

1728

145' to center big clump Willows (8+8' Trees)

330.80

2.3

17°

Water
Main
(Shot on top
Good for GRD)

330.00

3.1

11

329.30

8.8

322.70

10.4

4

321.10

12.0

6

322.10

11.0

12

322.60

10.5

22

Toe

0498

325.30

7.8

0490

328.90

4.7

16

328.20

4.9

12

326.20

6.9

4

322.60

10.5

321.70

11.4

3

322.00

11.1

13

Toe

0783

16' Lt to big water Main
13' Lt to near edge of pier

326.70

6.4

14

324.60

8.5

6

323.00

10.1

2

323.30

9.8

322.90

10.2

6

329.40

8.7

13

Toe

T.P.

7.23

333.10 T

12.00

325.87 ✓

333.10 T

337.87 T

Cont'd From Page 29

Lt

£

FF 30

Check		3.39	364.50 [✓]	=364.47
T.P.	6.25	367.89 [✓]	2.29	361.64 [✓]
T.P.	9.21	363.93 [✓]	0.33	354.72 [✓]
T.P.	10.79	355.05 [✓]	0.23	344.26 [✓]
T.P.	11.78	344.49 [✓]	0.39	332.71 [✓]

Starting B.M.

2+38.8 7[°] R to near corner pier.

2+16² 5[°] Lt to near corner pier

2+08 ANGLE POINT LEFT (This line looks good for future work)

14² Lt to & water main
2+03 10[°] Lt to near corner of pier

2+00

1+76

1+72

333.10 X

316.20
16.9
10
317.10
16.0
10
323.00
10.1
10

318.00
13.1

317.20
5.8
16.5
TOP
Main
317.90
7.2
14.5
GRD
316.20
6.9
10
370.10
13.0
3
318.10
14.4
8
TOP
319.10
14.0

9

333.10 X

Clark
Shepherd
Brumer
O'Neil
W.O. 20006
3-16-53

ELEVATIONS 3420 TEXAS ST.

CHK 1

278.12 = 278.09 = N.E.B.P
UPR SV LOUISIANA

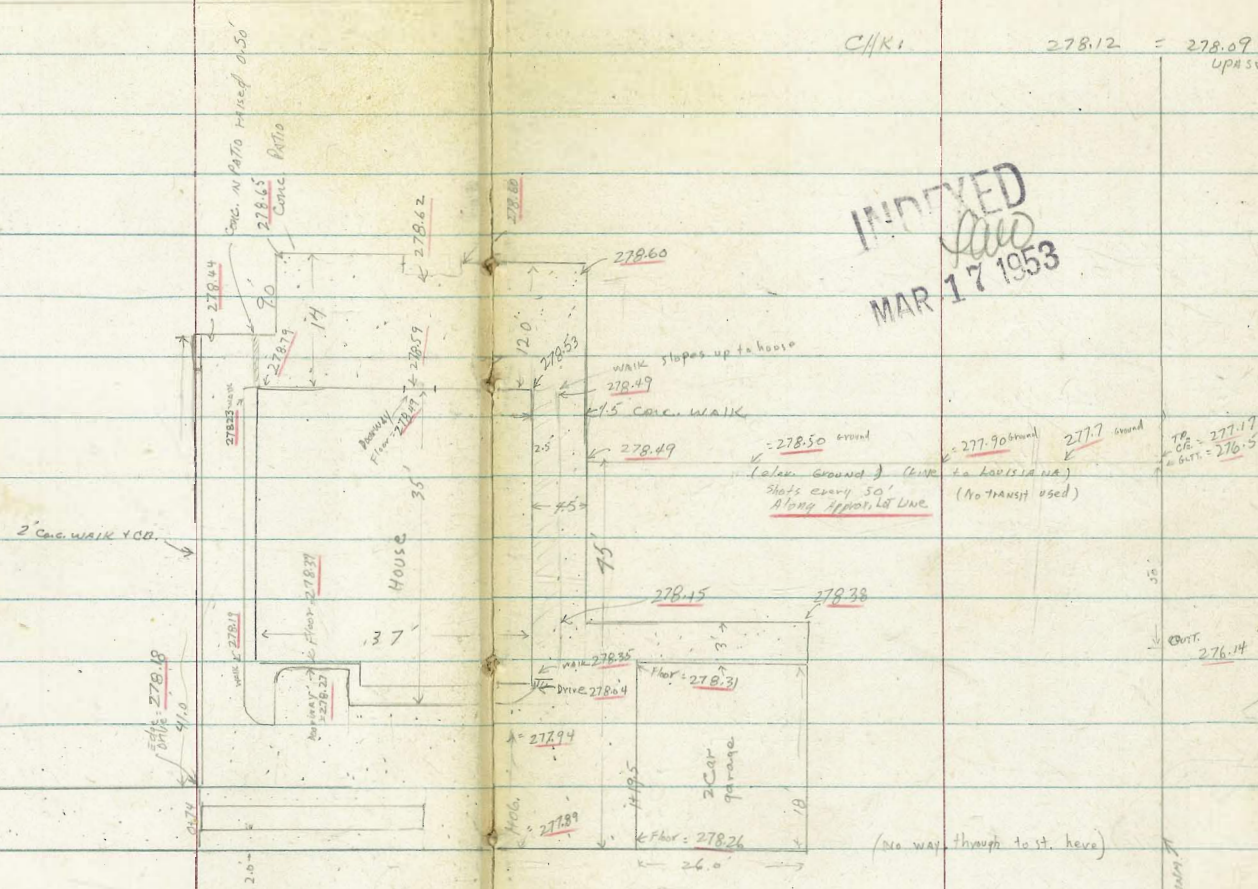
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W. 1/2 S. 1/4 SEC. 10 T. 10 N. R. 10 E. S. 10
M. 4 S. 1/4 SEC. 10 T. 10 N. R. 10 E. S. 10

P.M. dir. Elev. Rod:

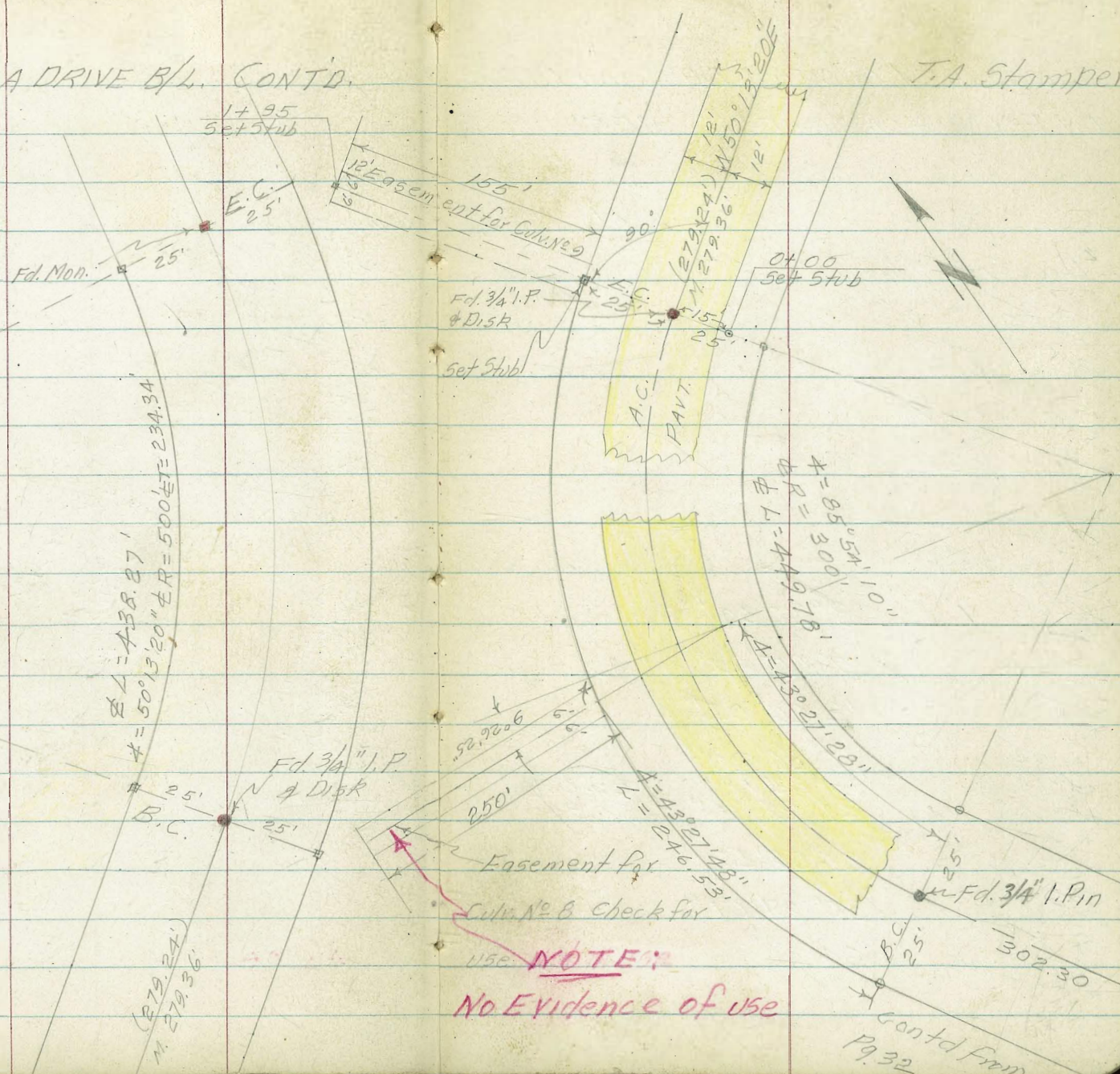
282.38 S.F.B.P.

TEXAS & MYRTLE



LASOLLA MESA DRIVE B/L. CONTD.

T.A. Stamper



Stampert
 Huffman
 Shorely
 Sherry

CROSS SECTIONS OF PROPOSED DITCH
 ON ELY SIDE OF LAJOLLA MESA DRIVE

W.O. 2/125

CURVE DATA

 $\Delta = 6^{\circ}59'50''$ Baseline $R = 898'$ $L = 109.67'$ $d = 1.9141$

chord = 109.60

P.C. + Ch.	Def. A	Chord
RT. B.C. 3+02.30	0	0

3+50	$1^{\circ}31'18''$	33.0
------	--------------------	------

4+00	$3^{\circ}06'43''$	
------	--------------------	--

P.C.C.		
4+11.97	$3^{\circ}29'55''$	

 $\Delta = 69^{\circ}43'$ B.L. $R = 318'$ $L = 386.94'$ $d = 5.40526$
 L.C. = 363.51

4+50	$3^{\circ}25'34''$	38.01
------	--------------------	-------

5+00	$7^{\circ}55'49''$	49.98
------	--------------------	-------

5+50	$12^{\circ}26'05''$	"
------	---------------------	---

6+00	$16^{\circ}56'20''$	"
------	---------------------	---

+29.04	$19^{\circ}33'18''$	29.04
--------	---------------------	-------

6+50	$21^{\circ}26'36''$	30.96
------	---------------------	-------

7+00	$25^{\circ}56'52''$	"
------	---------------------	---

7+50	$30^{\circ}27'07''$	"
------	---------------------	---

P.R.C.		
7+38.91	$34^{\circ}51'30''$	48.89

INDEXED
 JUL 2 1953

CULV N^o 6 Location of Easment.

CROSS SECTIONS OF PROPOSED DITCH
 ALONG ELY. SIDE LAJOLLA MESA DRIVE
 SLY. FROM CULV. N° 7 TO NLY END OF CUT
 THENCE PROFILE FOREASEMENT TO
 BOTTOM OF CANYON W. O. 21125

6-29-59

Sta	+	H. H.	-	Elev.
	13.325	234.070		
T.P.			0.030	220.745
	13.060	220.775		
T.P.			0.235	207.715
	12.240	207.970		
T.P.			0.095	⁷³⁰ 195.740
	²⁷⁵ 13.265	⁷⁴⁵ 195.705		
T.P.			0.130	⁴⁷⁰ 182.440
	³²⁰ 11.310	⁶⁰⁰ 182.570		
T.B.M.			0.710	²⁸⁰ 171.260
	¹³⁵ 12.725	⁹⁹⁰ 171.970		
T.P.			0.59	⁸⁵³ 159.845
	⁹²⁵ 12.915	⁴⁴⁵ 160.435		

Bolt in SELY Post Culv. Hd wall LaSolla
 Mesa & Linda Rosa

B. M. 147.52 N.E. 5' C.T. Colina & Taft.

LAJOLLA MESA DRIVE DITCH X-SECS CONTD

6-29-53

Sta	+	H.I.	-	Elev.
TP.	11.920	336 ⁰ 400	0.095	324 ⁰ 80
	12.535	324 575		
TP.			0.125	312 ^{1,640} 040
B.M.			5.925	306 ^{5,840} 240
	12.925	312 ^{1,765} 165		
TP.			0.170	299 ^{8,840} 240
T.B.M.			10.575	288 ⁴ 835
	12.535	299 ⁰ 10		
TP.			0.060	286 ⁴ 775
T.B.M.			9.250	277 ² 685
	13.260	286 ⁵³⁵ 935		
TP.			0.070	273.275
	13.175	273.345		
TP.			0.145	260.170
	13.270	260.315		
TP.			0.240	247.045
	13.285	247.285		
TP.			0.070	234.000
		234.070		

(side shot)
Top 3/4" Steel Pin & Rd Sta. 3+02.30

Top 2x2 Hub B/L Sta 5+00 (see sketch)

Side Shot Top 2x2 Sta 6+29.04

LAJOLLA-MESA DRIVE DITCH X-SEC'S CONTD.

Sta	+	H.I.	-	Elev.
TP	0.635	347.580	13.330	346.945
	0.150	359.875 360.275		
TP			13.235	360.125
	0.085	2.960 373.360		
TP			13.175	373.275
TBM			12.075	373.975
TBM			6.050	380.800
TBM			7.235	379.215
B.M.			6.335	380.115
	11.945	386.550		
TP			0.080	374.505
	13.090	374.585		
TP			0.040	361.295
	13.095	361.335		
TP			0.070	348.410
	12.705	348.510		
B.M.			0.595	335.805
TBM			1.030	335.370
		336.400		

Top Hub Sta 0+75 Cully No 9
 Top 2x2 0+50 Cully No 9
 Top 2x2 0+00 Cully No 9
 Top 3/4" I.P. & LaJolla Mesa Drive Opposite
 Cully No 9
 Top 3/4" I. Pin & LaJolla Mesa Drive Sta 0+00 (B.M.)
 Top of 2x2 Hub 0+00 B/L. Sta (see Sketch)

LAJOLLA MESA DRIVE X-SEC'S CONTD.

6-30-53

Sta	-	H.I	-	Elev
	0.140	8.880 279.310		
TP			5	8.740 12.880 279.170
	0.090	1.625 262.050		
TP			5	535 12.810 261.960
	0.610	350 274.770		
TP			5	3.740 13.020 274.160
TBM				295 2 9.470 277.710 277.685
	0.990	6.765 287.180		
TP			5	5.775 12.800 286.190
TBM				435 4 10.140 288.850 288.835
	0.380	575 298.990		
TP			5	195 12.980 298.610
	0.480	180 311.590		
TP			5	0.700 12.130 311.110
	0.130	2.835 329.240		
TP			5	2.705 12.930 323.110
	0.250	5.635 336.240		
TP			3	4 11.795 335.885 335.805 (see p 37)
		347.880		

Top B/L 2x2 6+29.04

Sta 5+00 B/L Top of 2x2

Top 2x2 B/L Sta 2+50

LAJOLLA MESA DRIVE X-5 SEC'S CONTD

6-30-53

Sta	+	H.I.	-	Elev
B.M.			13.550	147.555
	0.250	161.105		147.52 (See Pg 35)
T.P.			12.740	160.855
T.B.M.			2.260	171.790
	0.610	174.050		171.280
TP.			13.008	173.740
	0.470	186.740		173.740
TP.			12.865	185.970
	0.600	198.835		185.970
TP.			12.730	198.235
	0.170	210.865		198.235
TP.			12.868	210.795
	0.045	223.655		210.795
TP.			12.958	223.610
	0.160	236.125		223.610
TP.			12.918	236.400
		249.310		236.400

PROFILE OF PROPOSED EASEMENT FOR
CULVERT N^o 9 W.O. 21125

6-30-53

Sta	+	H.L.	-	Elev.	
	0.22	346.39	✓		
TP			12.36	346.17	✓
1+00			4.36	354.17	✓
	0.40	358.53	✓		Top 2x2 flush
TP			12.38	358.05	✓
	0.13	370.43	✓		
TP			12.47	370.30	✓
0+75			8.00	373.97	✓ Top 2x2 Flush
0+67			3.9	378.9	Top Break
0+50			2.8	380 ⁰	
0+34			2.3	380 ⁵	
0+31.5			3.3	379 ⁵	
0+27			2.93	379 ⁸⁴	E. Part.
0+15			3.05	379 ⁷²	
0+01.6			3.92	378.85	Edge Part
0+00			3.96	378 ⁸¹	Top 2x2 Flush (See sketch
	3.06	382.77	✓		
B.M.				379.715	(See Pg. 37) Top 3/4" 1. Pin E Lasolla Mesa Drive

CULV. N^o 9 PROFILE CONTD

6-30-53

Sta + H.I. - Elev.

383.37-83.58 299.79 ~ 299.87 Check

INDEXED

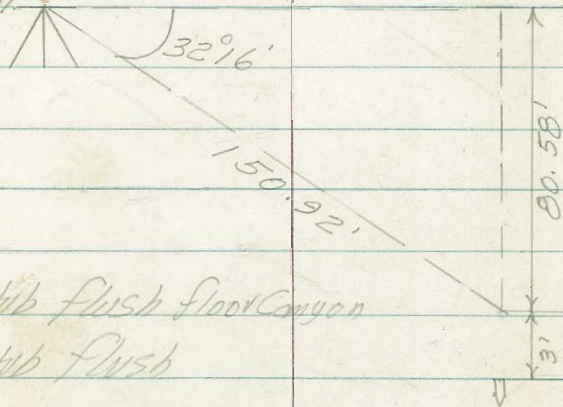
JUL 2 1953

Chained 3.0' Above Hub = 83.58

.53386 x 150.92 = 80.58

Vert \angle 32°16' Slope Dist 150.92

H.I. 383.37'



3.66 383.37

T.B.M. 379.71

End 1+95 13.19 299.87^v

Top Hub flush floor Canyon

1+75 10.97 302.09

Top Hub flush

1.09 313.06^v

T.P. 12.26 311.97^v

1+50 7.42 316.81

Top Hub flush

0.01 324.23^v

T.P. 12.33 324.22^v

1.70 336.55^v

T.P. 1+25 11.54 334.85^v

TOP 2x2 flush

346.39

PROPOSED DITCH X-SEC'S CONTD.

7-1-53

4+00

(-5.7) (-4.8) 7.68 7.67 7.91
19 6 0 6 18
EP. ±

3+50

0.87 304.86

(-9.7) (-8.0) 3.15 3.13 3.43
21 8 0 6 18
TOP TOP EP. ±

TP. 12.09 303.99

∧ 304.86

B.C.
3+02³⁹

2.3 1.0 9.24 10.03 10.25
19 6 0 5 18
EP. ±

2+50

2.04 316.08

0.0 1.3 5.37 5.24 5.29
12 5 0 4 18
EP. ±

∧ 316.08

TP. 12.29 314.04

Hill E. side RD 2+15 ±

2+00

3.2 4.4 10.2 10.50 10.48
22 6 0 4 18
EP. ±

1+50

326.33

0.8 2.7 6.0 5.9 5.80 5.65
22 5 2 0 3 18
TOP TOP EP. ± RD

∧ 326.33

X-SEC'S OF PROPOSED DITCH CONTD

7-1-53

Sta	+	H.I.	-	ELEV.
TP	3.79	250.53	12.77	246.74
5+75			7.93	
	0.36	259.51		
TP			12.90	259.15
5+50			9.34	
	1.65	272.05		
TP			12.08	270.40
	2.19	282.48		
TP			12.66	280.29
5+25			4.5	
5+10			3.6	
5+03				

INDEXED
JUL 2 1953

Top of Hub flush

(see sketch)

Begin Profile @ Proposed Easement

5+00				
	0.18	292.95		
TP			12.09	292.77
4+50				

288.12

10.9	3.4	3.3	4.52	4.61	4.60	4.80
26	15	3	0	5	13	18
			TOP Hub	EP		EP

1.8	-0.3	0.0	12.09	12.10	12.33
20	18	6	0	5	
				EP	EP

304.86

304.86

PROFILE OF PROPOSED EASEMENT (CONT'D)

Sta	+	H.I	-	Elev
T.B.M.			6.48	288.44
	7.96	294.92		
TP.			1.14	286.96
	13.00	288.10		
TP.			0.12	275.10
	12.50	275.22		
TP.			0.06	262.72
	12.68	262.78		
TP.			0.43	250.10
END				
6+05.75			6.11	
5+93			14.7	
		250.53		

SURVEY - DRAIN (CONT.)

LT. E RT

1708 12.7 RT & Deadman
 T.P. 8.60 35.07 2.53 26.47

1400

0+61 139 RT & 6" Apricot Tree

0+50 open ditch merges into gutter with high-berm (still paved Cold-Lay)

0+20.20 100' Cold Lay Paved open Ditch
 2-30 ft end wingwall
 END INLET
 5.00 RT END WINGWALL
 END CARRIAGE

0+19

0+15.5 7.0 RT & Deadman

0+00 = Chisel x E
 6'4" to hd wall
 5'x3' INLET

0-027 3.7 RT & Fire Hyd.

B.M. 7.63 29.00 21.37 = □ in N.E

26.70	25.7	25.5	25.2	25.4	26.1	26.5	26.4	27.0
230	3.3	5	3.8	3	3.6	2.9	2.5	2.4
10	5	10	3	3	5	6	2.6	1.0
Apr AC	Asph		L-PT	L-PT	700	shoulder	grd	grd

24.82	24.5	23.8	23.4	23.5	25.0	25.6
4.3	4.5	5.2	5.6	5.5	4.0	3.4
10	4	3	3	6	8.7	15
ac	Asphalt AC	Cold-Lay	L-PT	700	shoulder	grd

23.20	23.08	21.66	21.61	21.52	23.20	24.68	25.05
5.10	5.92	7.34	7.39	7.41	5.90	4.22	3.70
6	2.30	2.30	F. Line	5.00	5.00	8	16
on Pav	TP	F.L		F.L	(TENNIS WALL)	grd	grd

21.65	21.57	21.57
7.35	7.41	7.43
2.30	F.L.N.C	5.00

23.34	23.54	22	23.54
5.46	5.46	12.01	5.46
2.3	TP	F. Line	2.3
TP hd wall	TP hd wall	At hd wall	hd head wall

(CANG. ISLAND) PAC. HIGHWAY / BOBBA AVE
 For Sign (TRAFFIC)
 F.B. 2013-15 29.00

SURVEY - DRAIN (CONT.)

LT.

♀

RT.

48

3+21 Req - Berm again on RT, -end opening For Lane

3147	3147	307	307	312	310	318	319
2.60	4.0	4.4	2.9	3.1	3.3	3.2	
12.2	5	0.8	4.0	7.6	10	15	
approx E.A.C	Asph	Toe	Shoulder	2nd			

3+00 SET RE NAIL

302	306	303	306	302	302	303	303
4.12	4.0	4.8	4.5	4.3	4.5	4.8	
12.2	5	7.6	7.6	10	15	15	
approx E.A.C	Asph	Asph (Broken)					

2+94 Req opening Berm, For unnamed Lane SLY

202	202	202	202	202	202	202	202
4.30	4.70	5.10	4.9	4.1	3.7	3.6	3.9
12.3	5	7.6	2.0	7.6	10	10	15
approx E.A.C	Asph	Toe	Toe	Shoulder		9rd	

2+50

297	297	296	297	297	297	297	297
5.40	5.70	6.01	5.9	4.7	5.0	5.1	5.3
12.1	5	7.6	0.5	2.5	7.6	10	15
approx Edge A.C	Asph	Toe	Toe	Shoulder		9rd	

2+27.79 - 4 RT 10' 11'

294	292	294	284	297	296	295	295
5.93	6.30	6.7	6.7	5.4	5.3	5.6	5.6
11.70	5	7.6	1.0	2.9	7.6	10	15
approx Edge A.C	Asph	Toe	Toe	Shoulder		9rd	

2+01 } 2.4 RT & Pole # (Anchor)
 } 8.1 RT & Doodman

2+00

284	287	279	229	291	292	295	294
6.63	6.90	7.2	7.7	6.0	5.9	5.8	6.0
11.4	5	7.6	1.0	2.8	7.6	10	15
approx Edge A.C	Asph	Toe	Toe	Shoulder		9rd	

1+50

281	8.1	8.4	8.3	7.3	7.2	7.2	7.0
8.60	5	7.6	3	4.5	7.6	10	15
10.7	Asph	Toe	Toe	Shoulder		9rd	
approx Edge A.C							

1+41.5 6.3 RT & Doodman

1+18 6.2 RT & Pole # 5.6.22 71-11 (Anchor Pole)

35.

07

SURVEY DRAIN (CONT.)

LT.

Σ

RT.

dkl. 7.18 21.40 = 21.37 (see B.M.)

T.P. 2.78 28.58 9.27 25.80

MEDICAL BY LOCKWOOD
9-1-53

4100

33.37	33.2	32.9	34.81	34.0	33.9	33.6
1.70	1.9	2.2	0.16	1.1	1.3	1.5
12.2	5	7.0	3.7	5.7	7.6	15
Approx E.A.C.	Asph	Toe	TR Arm	8x4 9x4		

3182

5.0' RT END FENCE

32.17	31.8	31.2	31.2	31.8	32.5	32.5	32.4	32.5
2.90	3.3	3.4	3.4	1.7	2.6	2.6	2.7	2.6
12.2	5	0.5	0.5	3.5	7.6	7.6	10	15
Approx E.A.C.	Asph	Toe	Toe	Shoulder TR Arm	8x4 9x4			

3150

3141

4.4 RT Bag 2.0 high Picket Fence

3129.5

3.4 RT Σ Pole # 582372-H

35.07

Clark
Broner
Sweil
8-27-53
W.O.
INDEXED
AUG 31 1954
Base. The
Tr. sheets 1525
1526

X-SECT. BALBOA AVE.
Ely Line PAC. HIGHWAY to
SANTA FE ST.

(NLY) LT

RT

RT (344)

Note: See sketch Pg 46.
(2' For. out - Aline 20' SLY of NLY LINE)
OF BALBOA AVE. AS SHOWN - sketch

Note:
See Pg 69 for
additional notes

0+03.4 19.9 IT = CB, EC + P.CC OF RT (3' RADIUS AT INT. P.CC)

20.80
20
6.79 7.72
14.9 19.9
TP G
EC PAY

0+03 32.5 LT & UNION TO SIGN

0+02.8 25.6 RT & TRAFFIC SIGNAL

0+00 Sect. AT RT Ls to E

Note: Pav. areas in stations Flush to C&S
3' meets Pav. Balboa
(Pav. Balboa approx. 40' wide, this area)

20.81 20.80 20.84 19.85
7.32 7.19 7.15 7.84
50 30 22 20.2
Pav Pav CB G
C&S Pav
18.60
8.19 8.48 8.58 8.94 8.50 8.90
22.1 24.6 24.6 19.4 30 50
UP G T&S Pav Pav
GUT. T&S M&W T&S

mid. P.CC Returns

3' type G GUT TOP
S.E. Rot { 20' CB. RAD. - C&L = 33.30'
N.E. Rot { 20' CB. RAD. - C&L = 30.5'

11.8 7.48 8.17
TP CB G
18.81 18.85
S.E. 8.80 8.13
G T&S

0-10 0.40 RT & M.H

19.74
8.65
0.40
RUMH

0-12.5 - Ely CALINE PAC. H'WAY SLY
(section along CB LINE)

19.46 19.49 19.56 20.22 19.60
8.33 8.70 8.23 7.37 8.19
50 50 50 39 39
CB CB G
Rd Rd C
Pac. Hwy Pac. Hwy
8.75 7.35 7.07 7.56 10.01 9.37
42 42 50 100 100
G CB, EC MY G T&C

0-13.3 - Ely CALINE PAC. H'WAY NLY

E.M. 6.42 27.79

21.37 = ON N.E. ISLAND - Light Signal
BALBOA - RT Pac. Highway

27.79

X-SECT BALBOA (CONT.)

LT. E RT

1409. 28.5 LT E Roadman

(Cont. cold lay gutter) UNION STATION.

22.2 22.2 22.2 22.2 22.2 21.2 21.2 21.2
5.8 5.80 6.46 6.93 6.84 7.13 7.54 7.54
20 20 22.5 20 20 20 30 50
edge edge edge
STATION

0497 31.9 LT E Union Light Stand

T.P. 3.27 29.05 2.01 25.78

29.05

0458 41.9 RT END Con. Pav. Area

21.2 21.2 21.2 21.2 21.2 20.2 20.2 20.2
6.23 6.10 6.56 6.69 6.70 6.72 7.37 7.12
50 30 20 19 20 20 30 50
edge con. area
See 0443 on RT.

0450

0443 43.6 RT Beg Con. Pav. Area Around gas Pumps

21.2 21.2 21.2 20.52 20.2 20.2 20.2 20.2
6.70 6.60 6.68 7.27 7.32 7.56 7.74 8.00
50 30 28 20 20 20 30 50
1st. drive
STN.

0425

0412 20.1 RT EC CB Ret (S.E. Mt.)

19.2 19.2 20.2
7.93 8.03 7.46
18.1 20.1 20.1
Lyo 5 TPCB
Gut

0410.2 14.2 LT E 1st Mt.

20.2 20.2 20.2
7.58 14.2
Rim
20.2 20.2
6.91 7.54
22.5 22.5
TPCB 5
BY IN
SEA DRIVE

0406.5 22.5 LT END CB. (N.E.)

27.79

X Sect BALBIS (cont.)

LT E RT

Note: For det. Inlet see sketch Pg #6 & Notes Pg #7

1465.5

27.05 RT to E Headwall of E 5' x 3' inlet (w/ly)

1462

24.3 RT E Water Valve gate
30.7 RT E F. Hyd

1453

32.8 RT E Deadman

1450

1446

21.0 LT END CB inlet

1442

1.6' LT to 1/4 edge TRAFFIC control ^{CONC BOX PLATE}

1434

32.6 RT E Pole (no #)

1428.5

20.75 LT BRK gUTT grade inlet.

1426.5

{ 35.5 LT E Deadman
27.9 L/E Pole P 2934

1425

20.75 LT Beg Type P. 2 CB. inlet
3.5' x 2.2' 1/2mm gTATE

1421

27.3 RT - approx END PAR. STN - ASSOC. STATION

24.6	24.8	23.6	23.7	22.75	22.81	23.20	24.1	24.2
4.4	4.2	5.4	5.7	6.30	5.64	5.85	4.9	4.8
50	30	22	20	16.7		20	30	30
		TP	gUTT	APP		APP	51T	
		BRK		APP		E. Pole		
		22.54		22.58				
		5.51		6.53				
		21.0		21.0				
		JPCB		gUTT				
				23.21				
				5.84				
				1.6				
				22.06				
				6.99				
				18.25				
				gUTT				
				inlet				
				22.88				
				22.61				
				22.10				
				6.99				
				18.25				
				gUTT				
				inlet				
				22.88				
				22.61				
				22.10				
				6.43				
				6.44				
				18.25				
				gUTT				
				inlet				
				22.88				
				22.61				
				22.10				
				6.43				
				6.44				
				18.25				
				gUTT				
				inlet				
				22.88				
				22.61				
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				18.25				
				gUTT				
				inlet				
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				inlet				
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				inlet				
				22.88				
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				6.43				
				6.44				
				18.25				
				gUTT				
				inlet				
				22.88				
				22.61				
				22.10				

X SECT BALBOA (CONT.)

T.P. 9/12 36.85 132 2773

LT RT

2116.2 (APPROX) 0.25 LT E M.H.
PASADENA
+T. -N.Y.

50' along E Pasadena
out to LT to show extent
Trade Pasadena

29.55
+0.50
30
along E
Pasadena

27.42
1.63
0.25
RT
M.H.

3106 30.7 RT E median

26.8 27.6 27.2 26.70
2.2 1.4 1.14 2.35
50 30 20 16
50 30 20 16

26.54 26.57 26.2 27.2 27.6
2.21 2.46 2.8 1.7 1.4
14 20 30 50
5 ft
15 ft - cold lay

3100

2183 30.6 RT E Pale + 562271-H.

2174 38.0 RT E median

26.3 22.1 26.72 25.74
2.7 1.9 2.33 3.31
50 30 20 16
50 30 20 16

25.25 25.20 25.40 24.6 26.2 26.8
3.10 3.35 3.65 4.4 2.8
15.2 20 29 33
11 ft 11 ft
4 ft 4 ft
cold-lay
5 ft

2150

2147 27.2 LT E Pale # 12954

2124 40 RT E 6" approx tree

2100

25.5 25.5 24.2 24.5
3.5 3.1 4.3 4.8
50 30 20 16
50 30 20 16

24.25 24.2 24.2 24.2 24.0
4.45 4.77 6.7 4.1 4.0
16 21 29 36 50
edge
2 ft
5 ft

1186 END 5.13 inlet RT (See notes pg 47)
Edge open ditch + Cold-lay gutter + storm

1181 0.10 LT E M.H.

24.22
4.88
0.10
RT
M.H.

29.05

X-SECT BALBOA (CONT)

LT. ♀ RT.

Station	Description	LT. ♀	RT.
5700		4.9 50 31.8	5.07 10 31.30 E. Pav
4495	✓ 25.8' RT ♀ Pole #582372-H	4.6 30 31.2	5.6 20 31.2 Cold-Lay
4494	✓ 17.9 LT ♀ 24" EUCALYPTUS	4.07 20 31.28	5.8 22 31.0
4490	✓ 26.4' LT ♀ Pole # JP 3020	5.33 16 31.52	4.1 26 31.22 E. Pav
4466.1	✓ 0.1' LT ♀ M.H.	5.06 10 31.27 E. Pav	4.6 30 31.22 E. Pav
4450		6.7 50 30.7	6.36 10 30.49 Edge Pav
4400		6.8 50 30.9	6.8 20 30.9 Cold-Lay
3466	✓ 25.0' RT ♀ Pole (cont)	7.1 30 28.7	8.1 20 28.5 Cold-Lay
3463	✓ 26.6 LT ♀ Pole # P2976	7.21 19 28.64 E. Pav	8.24 23 28.5 Cold-Lay
3450		7.71 16 28.24 Cold-Lay	6.8 26 28.0 E. Pav
		7.93 10 28.42 Edge Pav	7.2 30 28.6 E. Pav
		7.28 10 28.57 E. Pav	7.1 30 28.1 E. Pav
		7.4 50 29.4	8.75 12 28.10 Edge Pav
		8.3 30 28.5	9.20 20 27.65 Cold-Lay
		8.6 20 28.2	9.41 23 27.44 Cold-Lay
		8.82 16 28.03	8.3 26 28.5 E. Pav
		8.67 10 28.18 Edge Pav	8.3 30 28.5 E. Pav
		8.55 10 28.30	7.8 50 29.0

36.85 ↓

X-SECT BALBOA (CONT.)

9+50

R.R.
ON SPIRE IN EUC. TREE 16.5' RT
AT STA 9+47 = STATE B.M. #5

T.P. 9.03 52.22 ↓ 2.00 43.19 ↓ = 43.19 = STATE B.M. #5

9+50 (See above)

9+47 175' LT E 20' EUC. TREE
16.5' RTE 36" " "

9+11 26.0' LTE Pole # P 3066

9+00

8+71 182' LTE 18" EUC. TREE
170' RTE 24" EUC. TREE

8+65 32' RT E Dry Perm Cold Lay

8+50

8+23 45.0' RT END Bekins Bldg

8+15 0.30' LT E M.H.

8+00

44.5
7.7
50
44.5
7.8
30
43.2
8.4
20
9.4
42.5
9.7
15' edge (approx)
42.63
9.59
10
E Pav
42.82
9.39
42.59
9.63
10
E Pav
41.5
10.7
20
40.5
98
42.41
116
27
30
31
Cold-Lay
42.7
TP
41.5
10.7
7.5

42.1
3.1
50
41.2
3.5
30
41.5
3.7
20
9.4
41.2
4.0
17' ch
Cold-Lay
Shoulder
49.01
41.0
4.2
15
41.59
3.80
10
E Pav
41.63
3.56
41.42
3.77
10
E Pav
41.5
4.6
20
41.5
5.6
27
Cold-Lay
40.5
4.4
30
32
41.8
4.4
34
TP
41.5
4.3
5.1
5.1
7.5

41.5
3.7
50
41.4
4.1
50
40.6
4.6
20
9.4
40.09
5.0
17
E Pav
41.2
5.5
15
Cold-Lay
Shoulder
49.01
40.5
5.04
10
E Pav
40.48
4.76
40.28
4.91
10
E Pav
41.3
3.9
20
41.3
5.3
26
Cold-Lay
40.5
4.9
30
5.0
40.3
4.9
50

560
03
RM
5.39
5.3
50
6.3
30
3.8
6.3
20
9.4
5.85
6.7
15
Edge
Pav
3.9
6.15
10
Edge
Pav
5.85
5.85
3.50
10
Edge
Pav
5.85
6.9
20
Cold-Lay
7.3
25
7.0
50
7.0
4.5
3.8
4

45.19 ↓

Intersection Arista St & Hickory St

D. Smith
R. Taylor
B. Fish

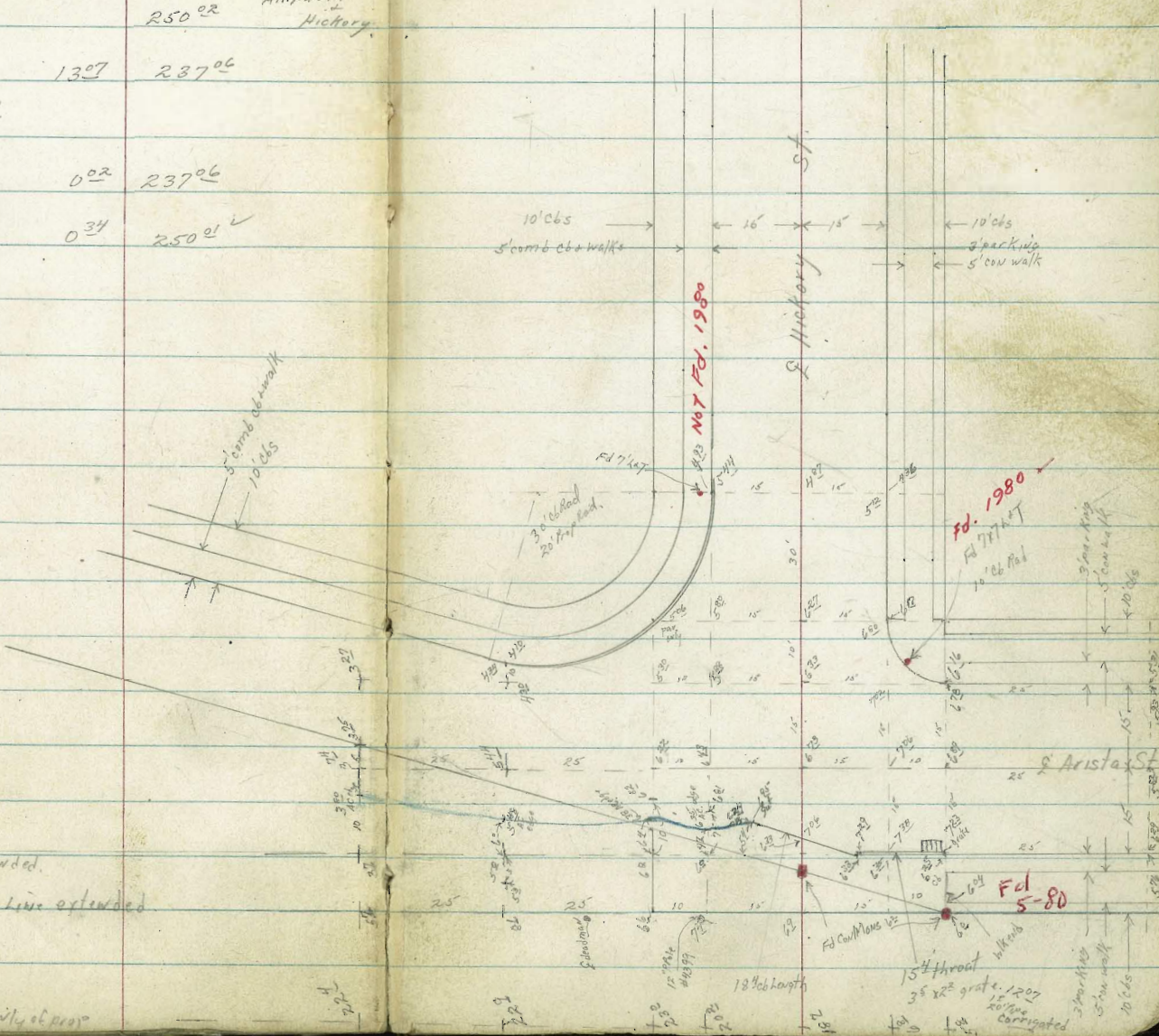
Wot
21208
12-22-53

59

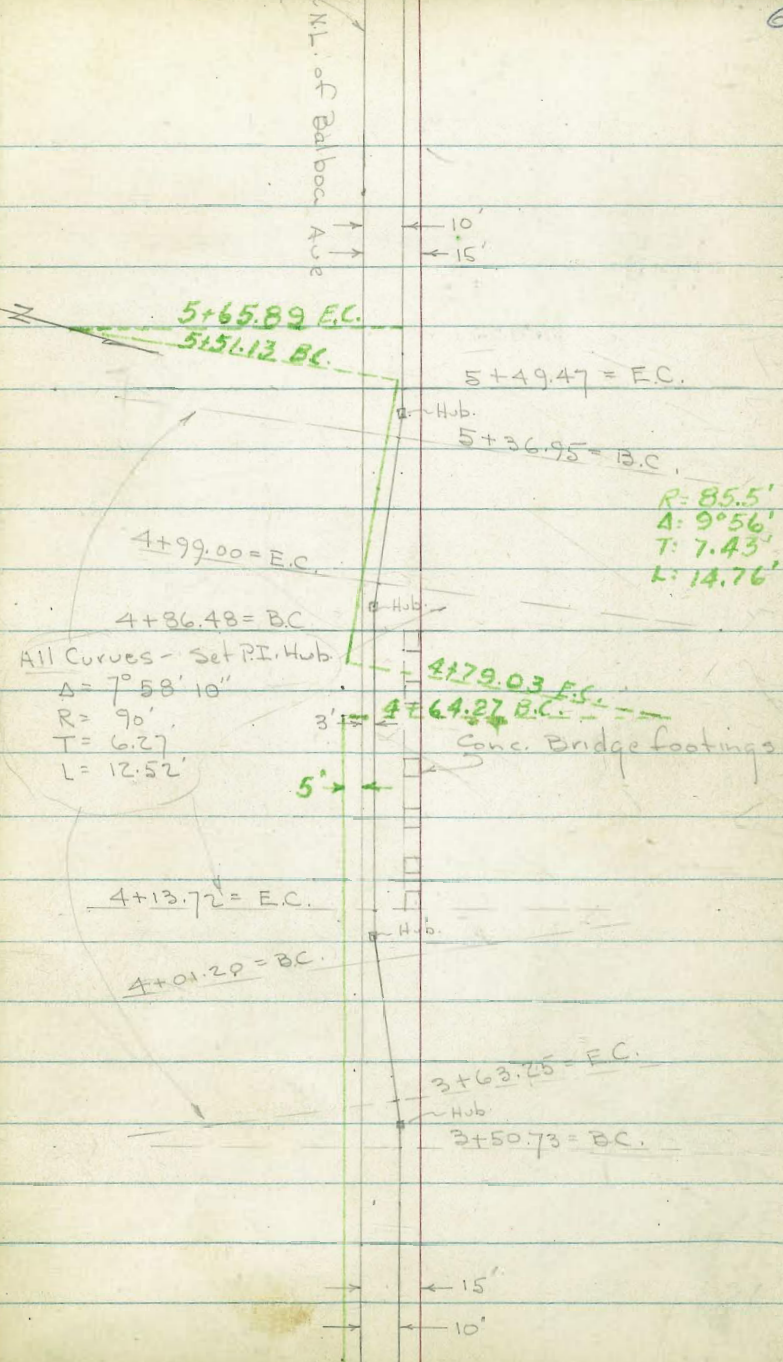
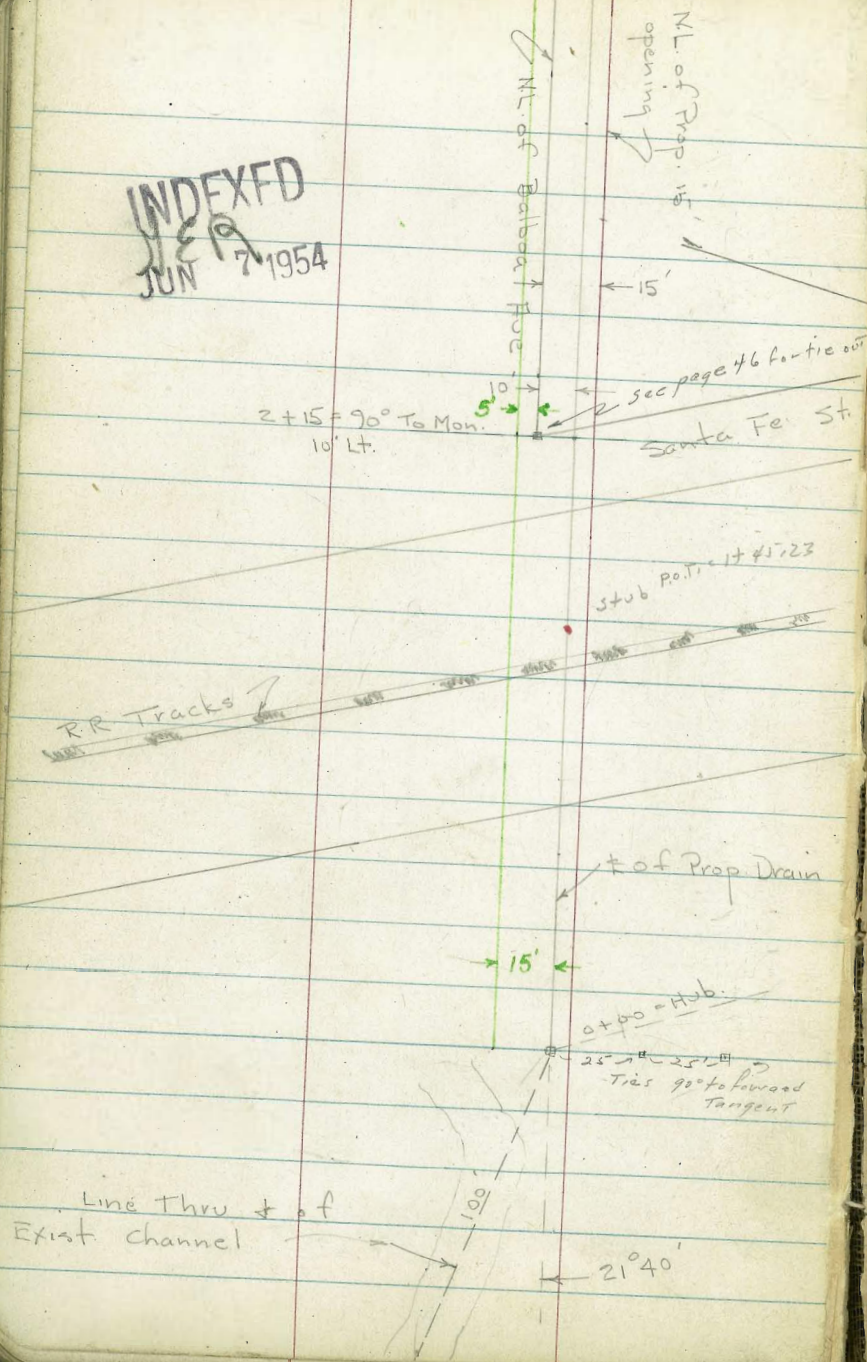
BM sly BP Arista Dr + Presido Dr, I couldn't find

BM	0 ¹¹	250 ¹³	250 ⁰²	NE BP Am. p. dia Hickory
TP ₁	0 ⁰²	237 ⁰⁸	13 ⁰⁷	237 ⁰⁶
TP ₂		HL used.		
TP ₃	13 ²⁹	250 ³⁵	0 ⁰²	237 ⁰⁶
BM, starting			0 ³⁴	250 ⁰¹

INDEXED
JER
DEC 24 1953



INDEXED
 JUN 7 1954



All Curves - Set P.I. Hub
 $\Delta = 7^\circ 58' 10''$
 $R = 90'$
 $T = 6.27$
 $L = 12.52$

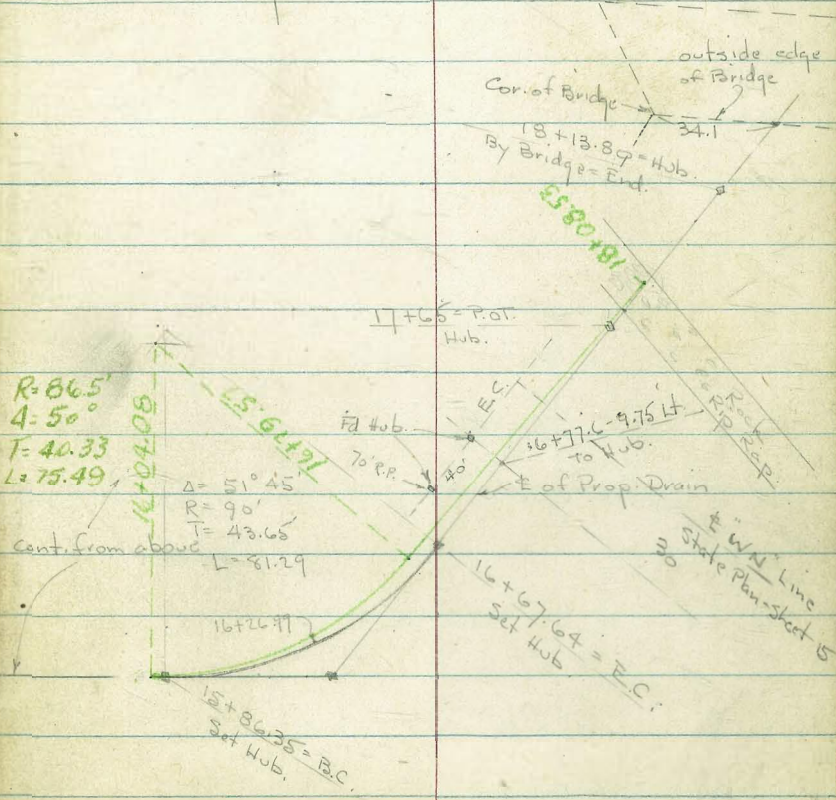
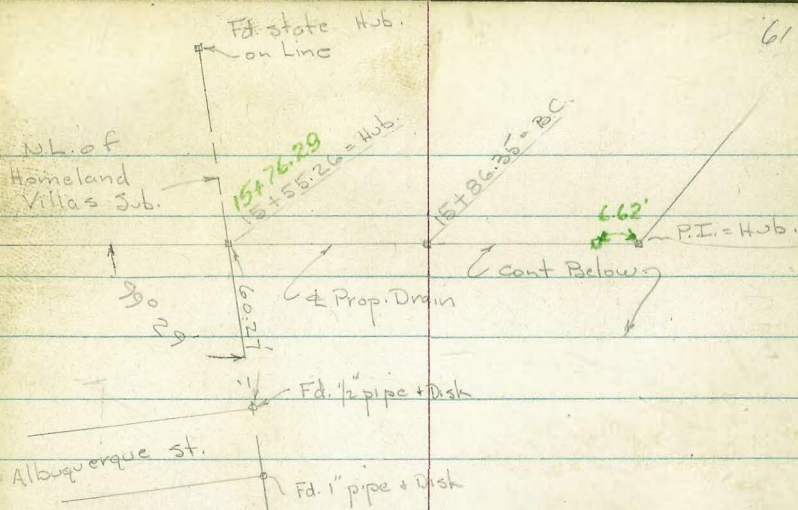
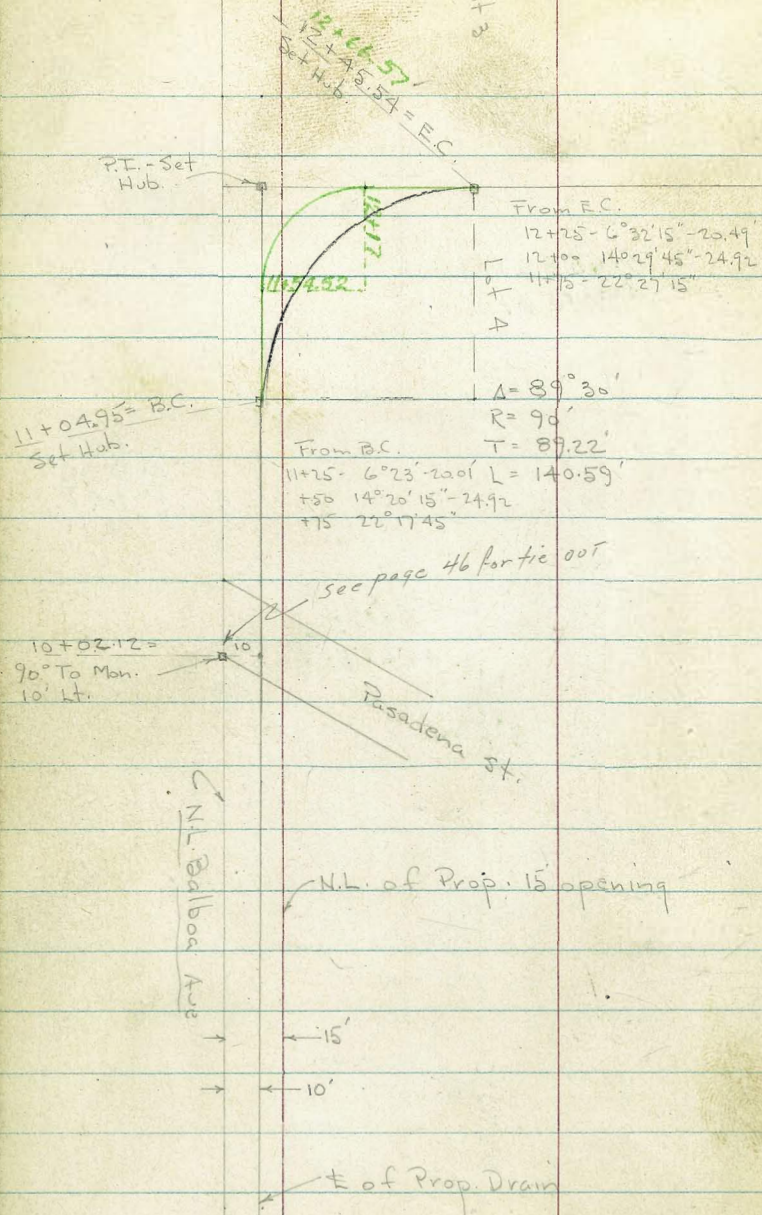
$R = 85.5'$
 $\Delta = 9^\circ 56'$
 $T = 7.43'$
 $L = 14.76'$

5+65.89 E.C.
 5+51.12 B.C.
 5+49.47 = E.C.
 5+36.95 = B.C.
 4+99.00 = E.C.
 4+86.48 = B.C.
 4+79.03 E.C.
 4+64.27 B.C.
 4+13.72 = E.C.
 4+01.29 = B.C.
 3+63.25 = E.C.
 3+50.73 = B.C.

Conc. Bridge footings

Pacific Hwy.

Lot 3



Beq. levels along \pm of Prop. Drain
 N. side of Balboa Ave - Morena to
 Hwy. - Sketch - P. 60-61

W.O. 22054 - 6-4-54 - 7.0.

0+65 - 9.5' Lt. = \pm Tel. pole # 578856-H

0+30

0+14.5 - 9.5' Lt. = wly. of sign
 Ang. 21° to Lt.

0+00 = Beq. Drain - Sect. 90° to forward Tang

0-08 - 2.1' Lt. = Ely. of sign

0-24

0-30

0-50 = \pm channel - Beq. Connecting Ditch

0-100 = \pm of Exist. channel

Morena \times Balboa

Check B.M. = Cross on Sewer M.H. Run 52.34 -

B.M. = Cross on Tel. M.H.
 See P. 58

46.83

Lt. \pm Rt. 62

52.1 53.6 54.3
 15 15

47.5 54.7 54.6 56.2
 24 13 15
 \pm channel.

55.0 55.5
 10

52.6 49.9 51.5 54.8
 18 4 6-Top
 \pm

54.9 51.7 55.4
 8 12-Top
 Top \pm

54.7 52.5 54.5
 9 7-Top
 Top \pm

52.56 = on Morena Freeway Datum.

3+63.25 = E.C.

Elev. may change - only # shown

3+50.73 = B.C.

Req. Const Area - ground

3+00

2+65

2+25 = edge of Rd

1+95 = edge of Graded Road

1+91 - 4.8' Rt = ± Tel. pole # 546146 - H

1+85.6 - 10.2' Lt = ± F.H.

1+85

1+80

1+60

1+47 = Top of Fill

1+37.8 = Wly. Rail

1+32.9 = Ely. Rail

1+25 = Top of Fill

1+05 = Toe of RR. Cill

0+90

0+80 = ± Drain - outs normal to RR.

0+73

0+70

Lt

R

Rt

63

44.4

44.6

45.3
.15

45.4

45.7
.15

46.0
.15

45.9

46.0
.15

47.0
.15

47.0

47.2
.15

47.3
.15

48.1

48.5
.15

49.1

52.4

57.5

62.9

64.49

64.35
.25
Rail

64.50

64.67

Top Rail

.25 = Top Rail

63.3

55.8

53.5

49.5
.15

50.3

50.5
.10

± Ditch

53.7

10 = ± Ditch

52.1

6 + 57.4 - ± of 6" Conc. wall

6 + 50

6 + 49.5 - 8.9 - Rt = end Bldg.

6 + 24.5 - 8.9 Rt = end fence + Beg. Bldg.

6 + 00

5 + 80.5 - 13.3 Lt - ± P. pole # J.P. 3052

5 + 67 - 8.4 Rt = Beg. fence for Lumber yd.

5 + 49.47 = E.C. = end Const. area

5 + 36.95 = B.C.

5 + 27

4 + 99 = E.C.

4 + 86.48 = B.C.

4 + 83.1 - 7.9' Rt = ± + Sly. of footing

4 + 60.9 - 7.9' Rt = ± + sly. of footing } all same size

4 + 50

4 + 38.7 - 7.9' Rt = ± + sly. of footing

4 + 16.5 - 7.9' Rt = ± of sly. side of 5 along line
By 2' wide Conc. footing.

4 + 13.72 = E.C.

4 + 01.20 = B.C.

Lt.

±

Rt.

64

36.80

36.89

37.06

5.5 =
end = Top

Top wall

10 = Top
wall

36.2
15

37.3

37.3
8.9

37.4
15

37.9

38.0
9 = fence

38.6
15

38.9

38.5
15

39.4

41.6

41.8

41.8

42.1

43.0

43.5

	Lt.	±	Rt.	65
10+17 = edge of Rd.	27.6 15	28.3	28.4	
9+88 = edge of Road.	28.4 15	29.0	29.8 10	
9+85 - 13.1 Lt. = ± P. pole # P 2976		30.1		
9+50	29.8 15	30.2	30.2 10	
9+00	30.5 15	30.5	30.5 10	
8+57 - 13.5' Lt. = ± P. pole - # P 3020				
8+50	32.1 15	31.7	31.4 10	
8+47 - 9' Rt. = end Bldg.				
8+14.5 - 9' Rt. = Beg. Bldg. - Conc. floor.				32.47 9=floor
8+00	32.8 15	32.3	32.5 9	
7+99 - 9' Rt. = end Bldg.				
7+69.5 - 9' Rt. = Beg. Bldg. - Conc. floor.				33.33 9=floor
7+50	34.1 15	33.6	34.0 10	
7+00	35.3 10	35.6	35.5 10	
6+60	36.0 15	36.3	36.4 10	
6+58.5 - 0.5' Lt. = ± 5" steel sign post.				

13+12-54.4' Lt. = S.E. Cor. of Nearest Bldg. (Cafe)

13+00

22.1
25 22.0 22.2
28 = Toe of slope

12+45.54 = E.C.

22.7 22.9 23.2 24.6
25 10 25

12+44-23.7' Lt. = \pm Tel. pole # 606871-H

12+25

23.2 23.4 24.3
25 15

12+17-39' Rt. = N.W. Cor. of Shed.

12+00

23.9 24.0 24.6 25.2
30 20 20

check B.M. = 0 in Signal base

21.37

11+75

24.1 24.7 25.2 24.8
40 20 10

11+61.6' - 4.6' Rt. = S.W. Cor. shed.

11+50

25.7 25.6 25.7
30 10

11+33.5' - 17.3' Rt. = S.E. Cor. of old shed.

11+25 - out to Radial

26.0 26.2 26.1
15 10

11+05-12.6' Lt. = E P. pole # 2954

11+04.95 = B.C.

26.5 26.4 26.2 26.7
12 10 30

10+70

27.1 26.7 26.7
15 10

10+30

27.2

16+67.64 = E.C.

Lt. ♀ Rt.
17.8 18.0 18.7 18.5
50 25 25

16+26.99 = Middle of Curve - Sect. Radial

18.3 18.9 19.5 20.8
50 25 20

15+86.35 = B.C.

19.1 19.6 20.9
25 25 = Toe

15+57 = ♀ 6" Euc. Stump.

15+54 - 0.5' Lt = ♀ 6" Euc Stump.

15+52 - 7' Rt = ♀ 30" Euc.

15+49.5 - 4' Lt = ♀ 8" Euc.

15+43 - 9' Lt = ♀ 12" Euc. Tree

15+40

19.1 19.3 20.2
25 15

15+00

19.3 19.4 20.2 22.1
25 15 30

14+50

19.4 20.0 20.5 25.5
25 18 50
Toe

14+00

20.3 20.7 21.4
25 24 = Toe

13+89 - 20' Lt. = ♀ Tel. pole # B.M. = 21.61
562252 = H

13+68 - 14' Lt. = Near Car of 5' x 8.5' Brick generator

13+50

21.1 21.2 22.0
25 34 = Toe

Lt. Rt.

18+10 - Top of Bank

11.3

18+04 - edge of Ditch

6.8 = water

check State B.M. on Rock

13.84 - marked

17+95 = Toe of Rock

5.8 =
Bottom of
Ditch

6.8 = Top water

17+80 = 26.5 Lt. = cut stake for bottom of Box
Sta. 4+00

8.60 = Prop. elev. of Bottom

17+70 = edge of Rock Rip Rap

17.2 18.5

Set B.M. on stub. 17+65

19.53

15
end Rock

17+20 in Const Area - may change

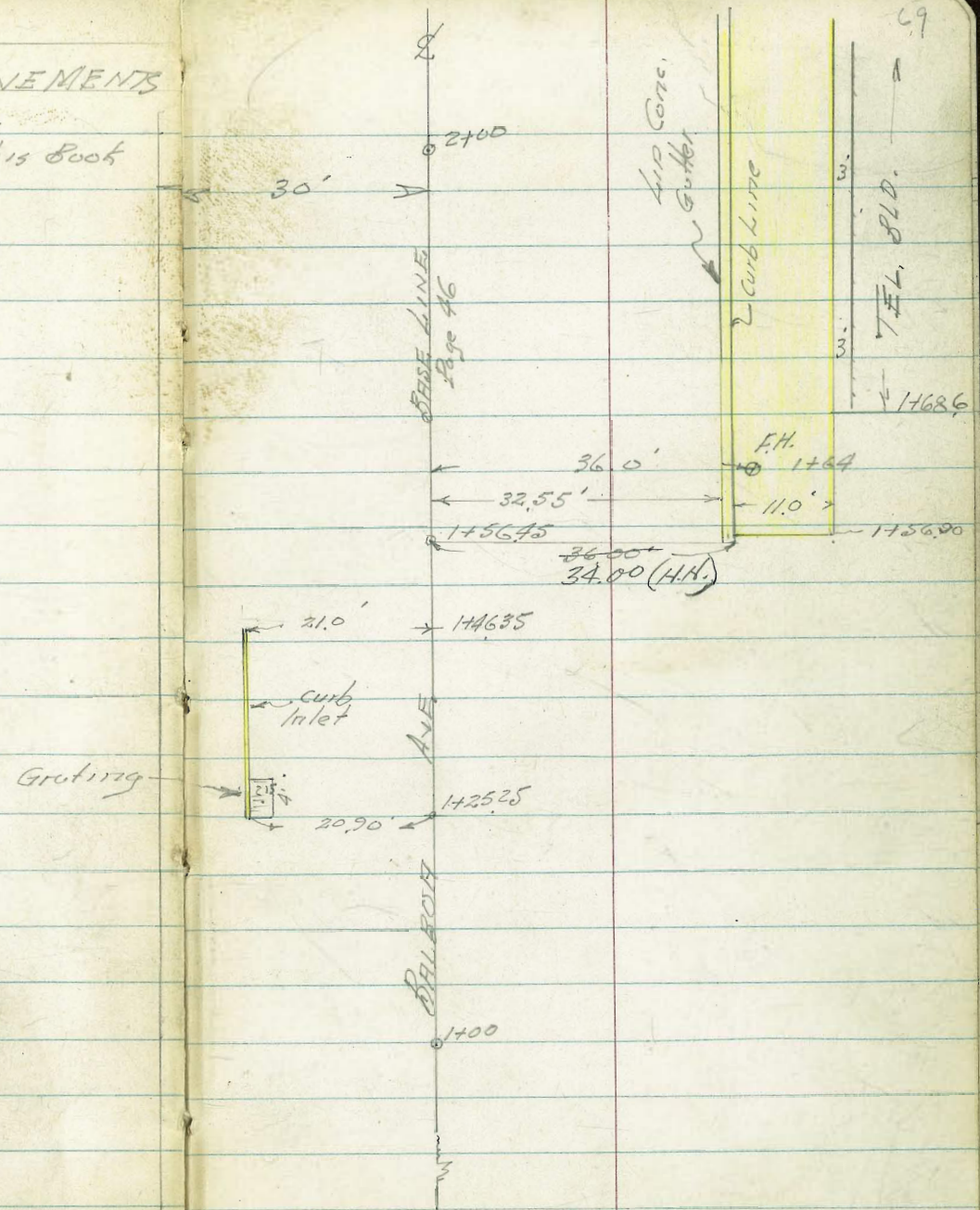
(out for Building
New Box (Culvert 4)) 19.9

BALBOA AVE

LEVELS ON IMPROVEMENTS

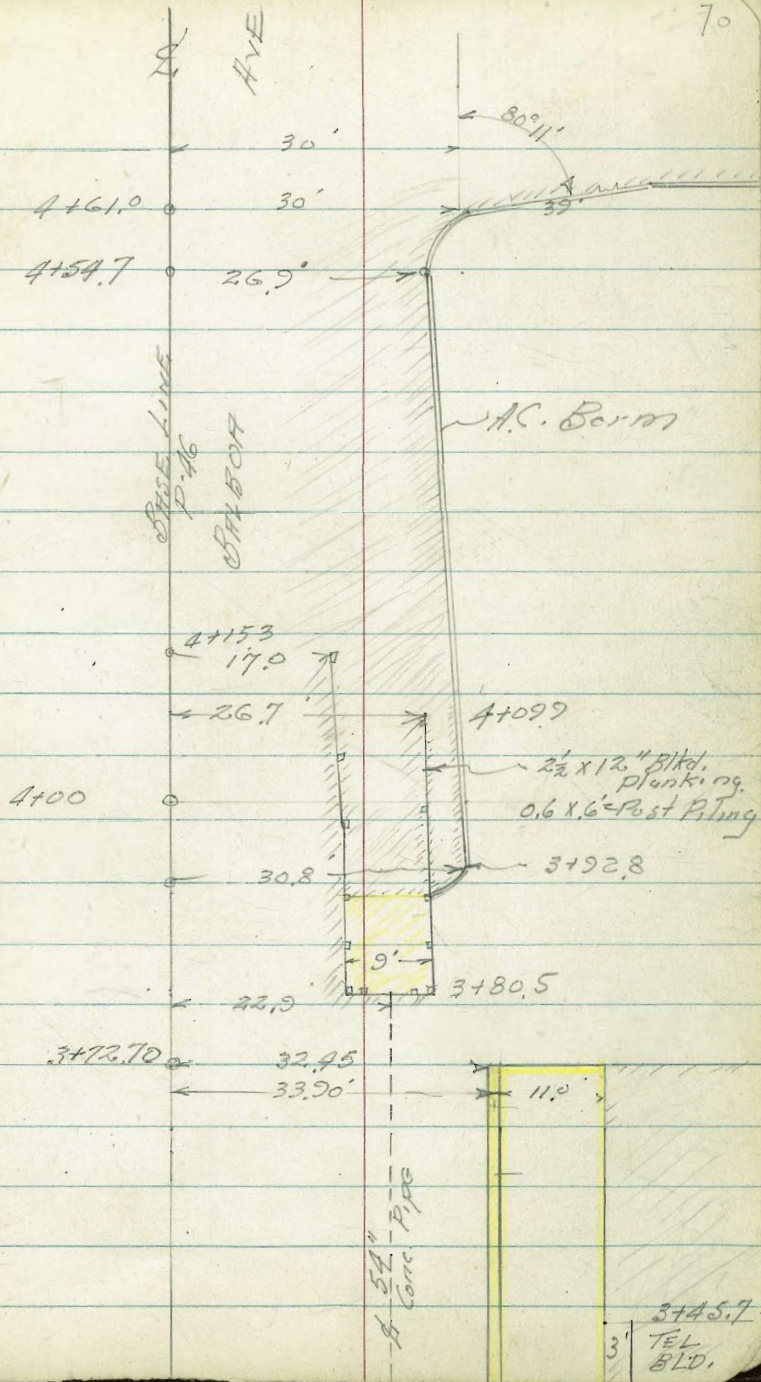
as Const. After Sections
Were Taken - P. 46 - 58 - This Book

Walker
Pope
Stittman
Olson 9-1-54



Balboa Ave

70



Balboa Ave

81

71

81237

45'

81237

8116

AVE

A.C.
Berm

71945

34.30

71893

31
30'

71843

30'

71779

34.3

BEARINGS STORAGE
BLD.

BASE LINE
1946

BALBOA

71150

45'

PAVED
LOT.

5100

4190

23'

30'

4196

33'

Balboa Ave

Base

72

3100

2698	2689	2753	2778
32.55	36	36	45
Lip	Gut	cb	Walk

2750

2580	2572	2635	2655
32.55	36	36	45
Lip	Gut	cb	Walk

2700

2465	2456	2449	2510	2519
32.55	36	36	45	45
Lip	Gut	cb	Walk	Walk

1+66.5 = 2 SEWER MH
25.8' RT

23.34
Rim MH.

1756.45

2354	2344	2409	2438
32.55	36	36	45
Lip	Gut	cb	Walk
Cont.			
Gut			

1746.35

2353. 22.53
21 21
Curb Gut
Flow

1722.25

2305 22.08 22.12
20.9 18.6
Grating Grating

1725.25

(16.22)
invert
22.98 22.61 22.60
20.9 20.9 18.6
Top Top Top
cb Grating Grating
at Gut

B.M. Christed Is. - light ad.
15' land
NE Pacific to Balboa

21.37 = P.47

3+90 = End Conc. in channel

2440
229
Flyin
Stunnel3+80.50 = Blkd. Channel
Face (Wooden Blkd.)2928 2233
229 229
Blkd Invert
54" Pipe

3+80 = 1 Tel. MH

2850
305
1 MH

3+72.7 = End Conc. Walk

2857 2846 2912 2927
3245 339 339 45
Lip Gut cb Walk

3+67.4

2846 2836 2901 2914
3245 339 339 44.95
Lip Gut cb

3+55.7

2826 2808 2819 2898
3245 339 Drive 44.9

3+43.7 = Bag Driveway

2809 2797 2853 2883
3245 3390 3390 44.90
Lip Gut cb Walk

T.P.

2809

4+61 Cont.

3181	32.33
69	69
Gut.	Berm

4+61

3011	3059	3176	3123	3220
238	30	31	45	45
Valley	Gut.	Berm	Berm	
Gut.				

4+547

3006	3038	3161
22	26	26.9
Ac.	Gut.	Top
Valley	at	Berm
	Berm	

4+15.3 Cont.

2981	3100
285	29.6
Ac.	Top Berm
Gut.	at Berm

4+15.3 = End wooden Blvd.

2993	2860	2807	2840
184	186	22.9	25
Top Blk.	ch.	Ac.	Ac.
	on Ac.		

4+09.9 = End Wood Blvd. South Side Channel

27.7	2957
26.7	26.1
Gut	Top
channel	Wooden
	Blkd.

4+107 = Pole Anchor 35.5' Rt.

3+92.8

30.36
30.8
Top 6" Ac
Berm.

Bus

7+00

36.86 36.59 35.74 37.34 37.30
 Pav. 10 Pav. Pav. Berm = N. Side
 Paved Lot

TR

56.75

6+50

35.62 34.93 36.23 36.45
 Pav. 25 Pav. Berm 45
 N. Side
 Paved Lot

6+00

34.22 34.12 33.78 34.97 34.72
 Pav. 10 Pav. Pav. Berm 45
 = N. Side
 Paved Lot

5+50

33.15 32.98 32.51 33.54 33.22
 Pav. 10 Pav. Pav. Berm 45
 N. Side
 Paved (AC)
 Lot.

4+96

31.93 31.70 31.06 32.14 31.94 32.16
 Pav. 10 Pav. Pav. Top 45 68
 Berm

4+22 = 2' ^{Water} std. Meter Box 27' RH

4+90

31.80 31.48 30.76 31.06 31.65 31.93
 Pav. 10 Pav. Pav. 30 45 68

4+76

31.41 31.20 30.47 30.80 31.28 31.98
 AC. 10 Pav. Pav. Pav. Pav. Pav. 30 45 68

Chk. E 8+00 39.34 = P. 57
39.33

~~37~~ 8+16 → 39.6
45
Dirt

8+16 = End Berm on Rt.

39.62 39.41 38.37 39.59
Pav. 10 28 31
Pav. Pav. Berm

39.58
45

7+94.5

37.18 38.92 37.66 39.36 39.39
Pav 10 26.5 32 34.3

7+86.8 = 4' Conc. Steps

37.68 39.23 39.27
30 34.3 45
Conc. Conc. Walk
Steps Walk

7+79

7+86.8 = 5' Conc. Steps on Rt.

38.75 38.50 37.46 39.0 39.18 39.21
10 27 31 34.3 45
Berm Conc. Walk
Walk

7+79

7+50

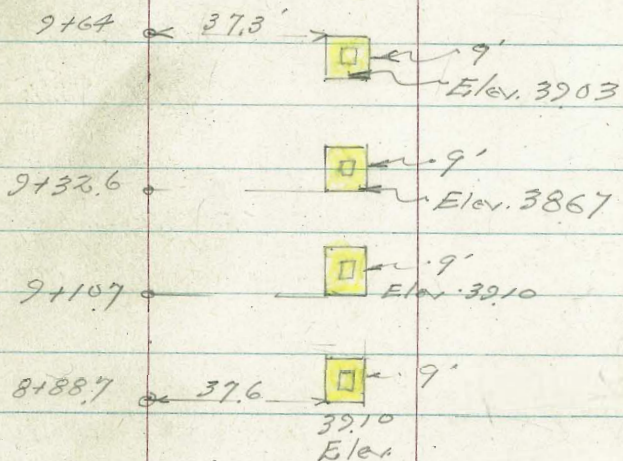
38.11 37.76 36.71 38.53 38.48
10 26.5 30
Berm 14' into
Road
Let.

7+46 31.9' Rt = 2' 1.7 x 2.6 Meter Box

BALBOA AVE

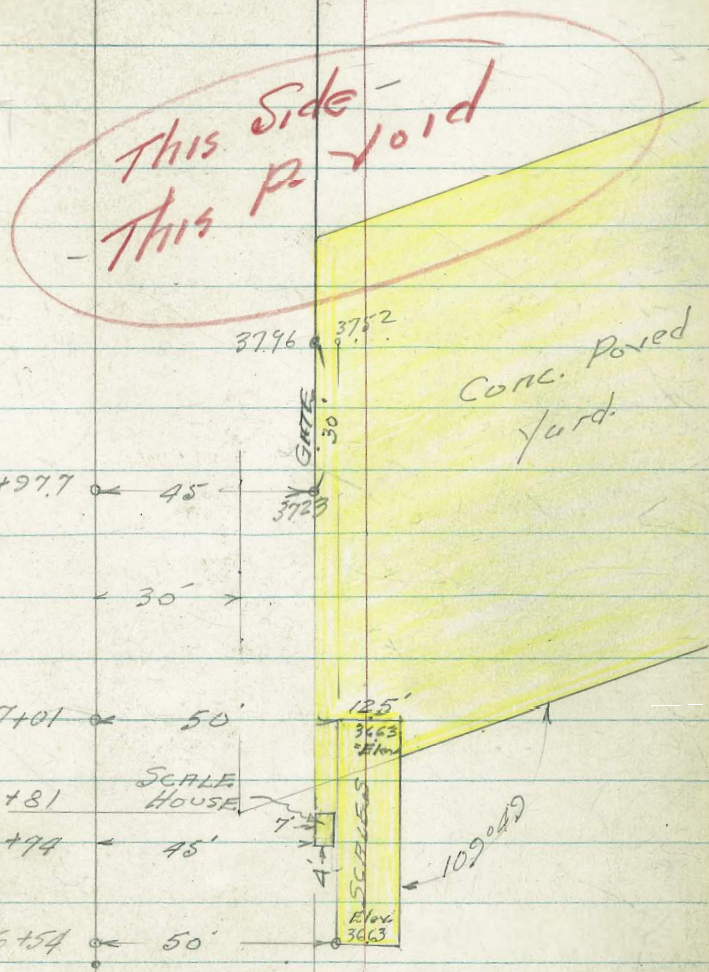
Base line
p-71

Elev. Exist Bridge Footings



Temp.
B.M.
L. Nail 9+00 p-57 4163

Base
41178
p-71



This Side -
This p-void

Base
Line P. 71

8+237

45'

BEKINS
STORAGE
BL'D.

7+50

45'

Corr. Paved
Yard.

7+27

45'

El. 37.50

37.50

7+01

50'

6+97

45'

El. 37.25

El. 36.68

Scale House

6+81

30'

6+74

45'

El. 36.68

El. 36.68

6+58

50'

12.5'

6+58

12.5'

102° 49'

El. 36.68

El. 36.68

12.5'

chk 11+00 Balboa P-58

11+05

T.P.

10+36

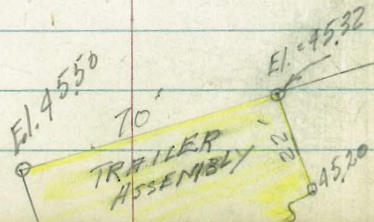
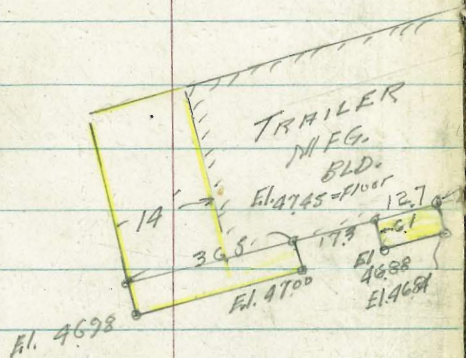
10+12

9+75

0.82
46.49 = P-58
46.51

45.33

4163-BM-P-77



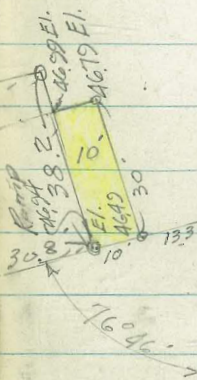
47.0 47.0 46.7
100 82 50

46.6 46.2 45.4
150 100 50

45.3 45.4 45.1
150 100 50

45.2 45.0 44.6
150 100 50

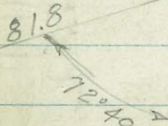
offset line



50' 10+66

50' 10+10.6

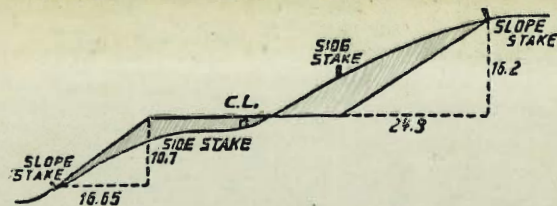
50' 10+00



Base
P-77

Wheeler ^{Stodo} CY 8-6811
 3664 Curtis EX 232

- 23 01 ← nail sight
 23 75
 24 29
 24 91
 25 40
 26 01
 26 61
 27 16
 27 54
 28 16
 28 70
 28 96
 28 98 L
 29 70
 30 37



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.
 SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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