

**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	4.98	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	.029	.032	.035	.039	.043	.047	.051
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	.711	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.286	.383	.480	.578	.678	.777	.877	.977	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

Survey Culverts S'ly of Grape at 54

1-3

" fa Drain, 30th & Upas Sts

4-11

SURVEY-DRAIN - 6944-IMPERIAL - S'ly

33



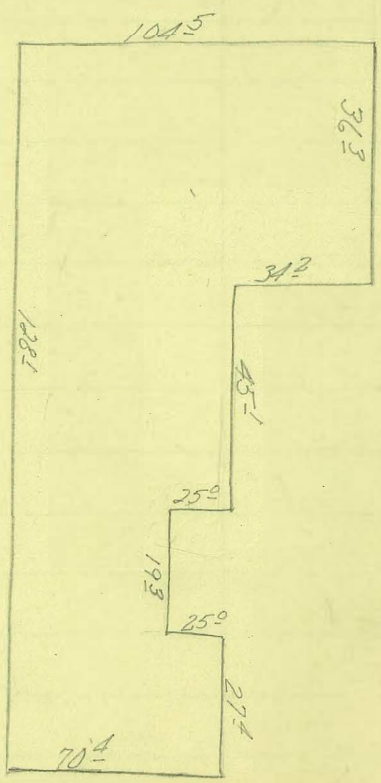
Roberts  
Cota  
Moore  
Pillen  
7-14-52  
W.O. 20981

Survey of Existing Storm Drains at  
54th & Grape  
Map 2621 & 2505

56° 25' RT FROM SO.

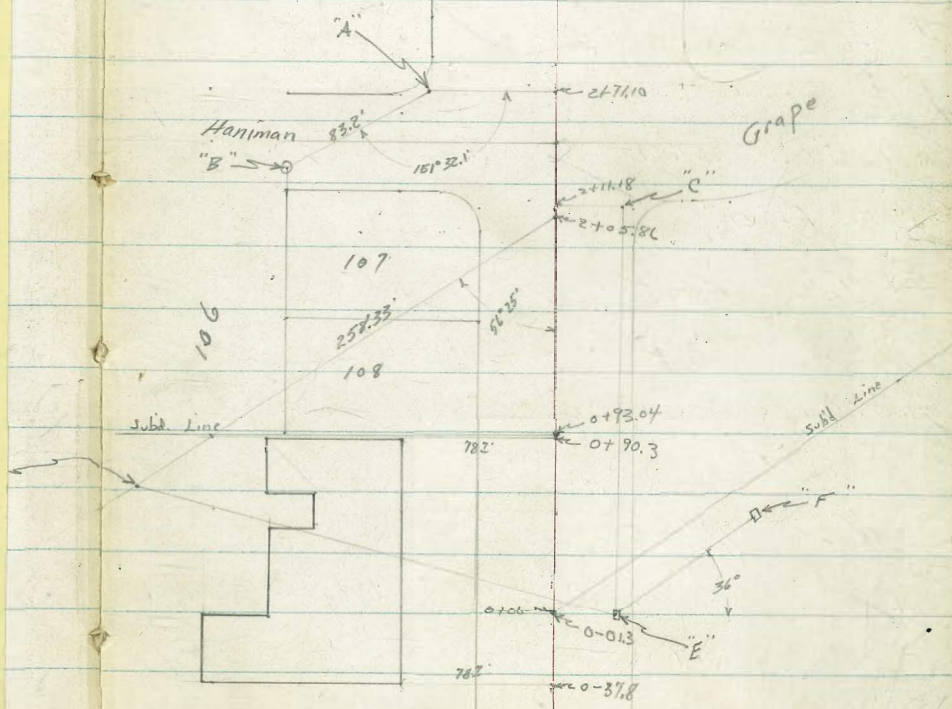
1321  
528  
803

N



INDEXED  
RAW  
APR 15 1952

25  
54th St





Contd From Page 2

2

"D" to "E" "D" is End of 42" RCP equals 0+00  
0+00 = begin of 42" RCP 0+92 and 1+00 pipe sections  
curve to Right. 1+93.3 end of 42" RCP and begin  
30" RCP. Slight angle left at this point.  
and inlet.

"E" to "F" Two 15" RCP one over the other.

"F" Homemade inlet 1.75' x 1.75' Broken conc. Hunk construction.

"C" to "E" 24" RCP

"E" Homemade Junction Box & Inlet 2' x 2' Conc. Block Construction.

"A" to "B" 24" RCP "B" = Std. MH. From "B" pipe follows Lot Line and somewhere curves to point alongside  
42" RCP at "D."

2+71.10 66.9' ~~Rt~~ to Center 10.5' Cb. Inlet = "A"

2+11.18 34.3' Rt. to Center 15' Cb. Inlet = "C"

2+05.86 Turned L to End Pipe see pg. 1 = "D"

0+93.04 Fd Disc RE 1534 Subd. Corner Westwood Hills No. 1

0+90.3 78' Lt. to Corner Store Bldg.

0+00 Fd Disc RE 534 Subd. Corner Westwood Hills No. 2

0-01.3 31.9' Rt to Inlet & Junction Box = "E"

0-37.8 78' Lt to Corner store Bldg =

for this narration.

cracked badly! This 42" RCP is laid on a slight  
48" CMP 2+46 end of 48" CMP and begin  
2+54 end 30" RCP and begin junction box

construction.

Block Construction.

curves to point alongside



Cont'd From Page 2

3

"A" 10.5' cb inlet cb - 217.47 +<sup>a</sup>  
Gutter - 222.64  
Invert - 218.20

"B" Manhole Invert - 218.20

"C" 15' cb Inlet cb - 223.76  
Gutter - 222.87  
Invert - 218.17

"D" Outlet 42" RCP Invert 210.78  
24" RCP Invert 211.06

"E" Junction box and Inlet Grate - 223.40  
Approx. Invert - 215.30

"F" Inlet Invert of Lower pipe 216.52  
Lip of Inlet 223.40

B.M.

SEBP,  
223.79 54" dia G.P.



Proposed storm drain  
Upas + 30<sup>th</sup>

C.H.S.  
Beqq.  
oltman  
Johns

NO 21007  
7-22-52

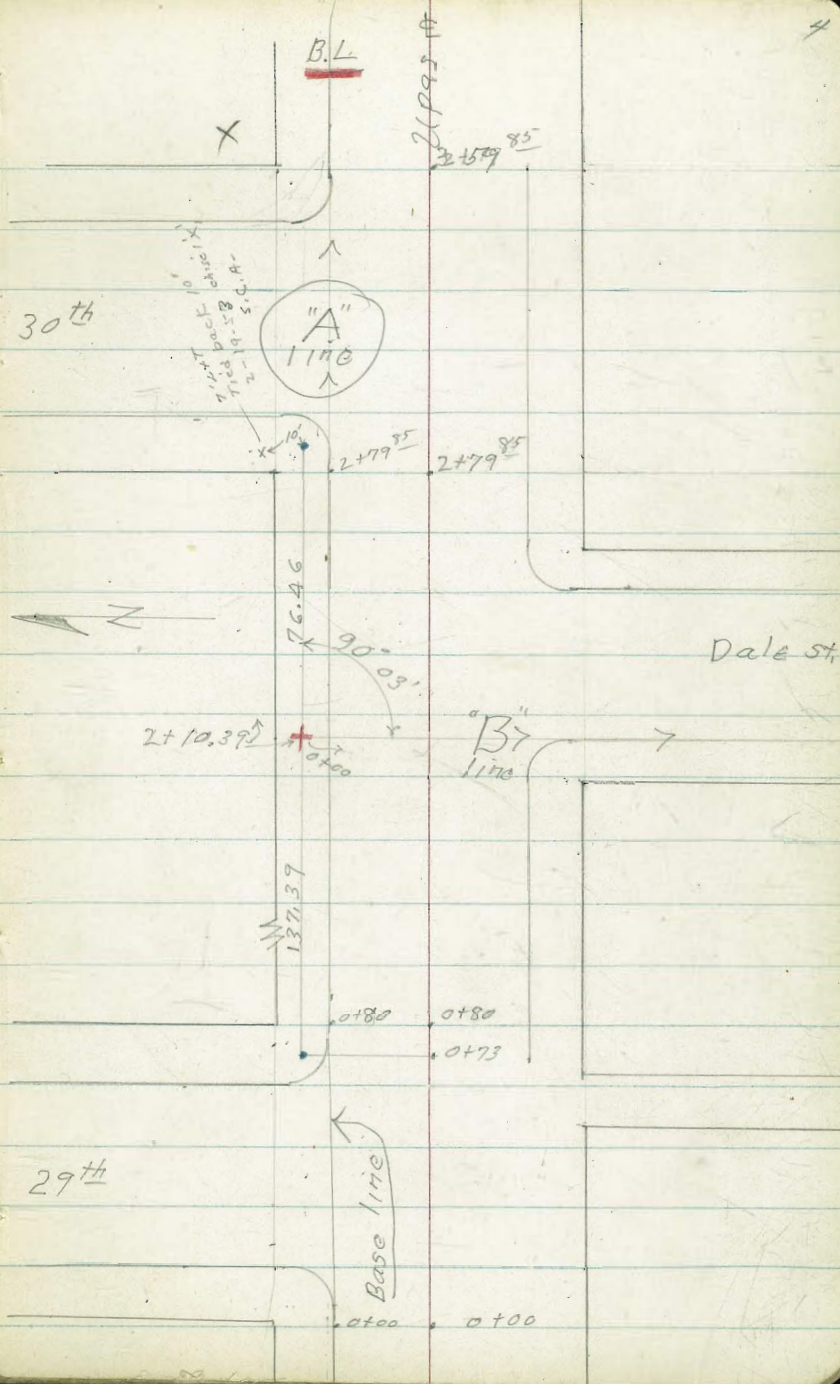
B.M. = B.P.N.E. Ret. Myrtle + 30<sup>th</sup> EL. = 331.90

Direct elevation rod used.  
The hundred (which is 3) is not  
shown in rods in notes.

N.W. 7' L + T Upas + 30<sup>th</sup> EL. 325.08  
Nly. 7' line)  
Cross in walk (sta. 2+10.39) EL. 324.93  
N.E. 7' L + T. Upas + 29<sup>th</sup> EL. 325.36

Base line for Upas St drain = Nly  
gutter line upas.

INDEXED  
JUL 23 1952





1+50			24.72 cl	24.97 G	24.31 5
1+25			24.95 cl	24.34 G	24.51 5
1+00			25.10 cl	24.52 G	24.70 5
0+80 = Ely. <sup>prop.</sup> 1/70 29 <sup>th</sup>			25.31 cl	24.67 G	24.76 5
0+76 = E.C. 10' Rad. cl. Ret.			25.27 cl	24.67	24.80 5
0+66 10' Lt. = B.C. 10' Rad. cl. Ret.			25.37 10 cl	24.82 10 G	24.77 24.90 5
0+40 = <del>cl</del> 29 <sup>th</sup>			25.00 5	24.88	25.08 5
0+14 - 10' Lt. = E.C. 10' cl. Ret.			25.78 10 cl	25.21 10 G	25.08
0+0A = 10' cl. Ret. B.C.			25.71 cl	25.21 G	25.7
0+00 = Wly prop. 29 <sup>th</sup>			25.77 cl	25.25 G	



2+30

2+29-2' Ltr. Ctr. water meter vault.  
curb.

2+24.7 = £ 5" diam roof drain thru.

covered channel

2+18 = end throat of grate

2+10

2+12 L<sup>2</sup> Rt = £ 2' <sup>+ 10" high</sup> wide N. + S. box drain

2+10<sup>39</sup> = Wly. cl. pale.

2+07.7 = start grate

2+05.5 = start throat to grate covered  
channel

2+00

1+75

24.49 23.74 23.60 23.73 23.92  
cl C 1 2 5

23.80  
I.E. 5" pipe

24.42 23.60 23.55 23.78 24.10  
cl G 1 2 5

24.43 23.52 23.49 23.55  
cl O<sup>2</sup> 1 2

23.46 23.37  
O<sup>2</sup> 2<sup>2</sup>  
G £ Box drain

23.45 24.36  
O<sup>2</sup> O<sup>2</sup>  
G grate

24.21 24.48 23.5A 23.55 24.11 24.26  
O<sup>1</sup> 2<sup>1</sup> 2<sup>2</sup> 5  
grate cl G

24.4A 23.60 23.60 23.81 24.16  
cl G 1 2 5

24.35 23.65 23.91  
cl G 5

23.93 23.82 24.07  
Drive G 5  
oil



drain  
 19' Ltr. N.W. cor. throat to  
 9" high box drain  
 14' Ltr. S.W. cor. throat to 2' wide  
 wly. cl. line 30<sup>th</sup>

24.77 25.17 24.40 24.94  
 40 40 19 19  
 G C C C

2+80 = end grate + start 2' wide  
 8" high

25.16 24.98  
 23.81 25.07 25.06 24.89 25.05  
 14 14 10 5  
 G C C C  
 Pauc Cl. + Pauc

2+76<sup>2</sup> start grate

24.92 23.52 25.00 25.02  
 24.83 23.42 24.86 24.91  
 Cl. grate + Pauc. I.E. 2' grate 5  
 # Box drain  
 24.20  
 24.12  
 # grate

also # 2" drain thru curb.  
 2+74<sup>2</sup> start throat to drain outlet

24.90 24.60 23.96 23.70 23.76  
 24.83 24.55 23.88 23.64 23.70 24.27  
 C I.E. 2" pipe C 1 2 3 5

2+65

24.65 23.65 23.94 24.10  
 24.70 24.18 23.58 23.92 24.15  
 C C 1 3 5

2+56<sup>2</sup> = # 4" drain thru curb.

24.22  
 I.E. 4" drain

2+55 1<sup>5</sup> Ltr. leadman

2+50

24.62 24.05 23.65 23.91 24.00  
 C C 1 3 5

# 54958H  
 2+39<sup>2</sup> 2' Ltr. ctr. 10" diam pole

Gas. Co service vault.  
 2+35<sup>2</sup> 2<sup>3</sup> Ltr. Ctr. 2' x 2' conc. walled

22.43 22.3  
 2<sup>3</sup> 2<sup>3</sup>  
 top of 2" pipe runs to west  
 end No Conc. floor



3+59 6<sup>E</sup> Rtr = Ctr. M.H. Marked (PT+T.C.)

3+56 - See page 9 + Fire Dept.

3+47<sup>5</sup> 15' Lt. = Polo for Police Dept  
drain

19<sup>E</sup> Lt. = N. Ely Cor. throat to  
into box drain

also 14' Lt. = S. Ely. Cor. throat

3+46<sup>2</sup> Ely cl. 30' Lt

10' Lt. = E.C. 10' Rad. Cl. Ret.

3+45 14' Lt. = Nly end drain

into 2' x 6" box drain

3+43<sup>7</sup> 14' Lt. = S.W. Cor. throat

19<sup>E</sup> Lt. = N.W. ly " "

3+33

3+20

3+07

2+96 14' Lt. = S. Ely. Cor. throat

+ 2 grate

2+95 14' Lt. = 2 drain intake.

26.01 25.40 25.95  
30 30 19<sup>E</sup>  
00 6 00

25.75  
19<sup>E</sup>  
00.

25.14 24.68 25.90 25.90 25.81 25.90  
19<sup>E</sup> 14 14 10 5  
N.E. 17 alt 00+  
Cor. Throat Pavc Pavc.  
Throat

24.66 25.89  
14 Pavc  
I.E. 14  
drain

25.19 24.73 25.80  
19<sup>E</sup> 14 14  
Pavc Throat Pavc+  
+grate Grate

25.98 26.00 26.00  
5 5

25.85 25.81 25.73  
5 5

25.35 25.34 25.30  
5 5

24.42 23.87 24.97  
19 14 14  
End of I.E. pavc  
throat drain  
+ pavc.

24.41 24.65 23.77 24.94  
19 16 14 14  
End grate I.E. pavc.  
of drain +grate  
Throat 2



4100

2626	25.70	25.87
cb	0	5

3+65 = N.E. Cor. throat to drain

25.95	25.30	25.35	25.55
cb	0	2	5

also N.W. Cor throat to drain

3+60 = N.E. Cor 2' x 6" box drain

25.90	24.70	25.85	25.80
pave	1	2	5
tot	I.E. drain	pave	

3+56 = E.C. 10' Rad Ob. Ret.

25.92	25.87	25.85
5	cb.	5
on walk		pave



"B" line

B.L.

22.92	23.39	23.08	23.62
30	30	50	50
G	Cl	G	Cl

0+59<sup>01</sup> sly. ob. line upas. 23.51 23.35 23.34 23.27 22.64  
5 10 14 14  
Cl. Cl G

0+59 10' RT. = S.E. cor. throat to 23.51 23.35 23.24 22.32 22.64  
5 10 10 14  
pauc Throat S.W. Cor Throat

0+58 10' RT. = 2' x 8" box drain 22.31  
10  
I.E.

0+57 10' RT. = N.E. cor throat to 23.57 23.48 23.23 22.35 22.84  
5 10 10 14  
pauc Throat N.W. Cor Throat

0+46 24.05 24.01 23.99  
5 5

0+33 2' upas 24.32 24.31 24.30  
5 5

0+20 24.31 24.34 24.35  
5 5

0+09<sup>2</sup> =  $\left\{ \begin{array}{l} 16' LT. = 2' drain \\ I.E. start 2' x 10" box drain \end{array} \right.$  24.91 23.37 24.41 24.40 23.76  
5 3 16 16 5  
I.E.

= 7' LT. of 2+10.39 "A" line page 4

0+00 = cross in walk on tie in line 24.98



"B" line

11

2+50

21.15 21.80  
G cl

2+00

21.58 22.20  
G cl

1+50

21.90 22.71  
G cl

1+25

22.05 22.91  
G cl

1+00

22.68 22.14 23.09  
5 G cl

0+78 = S.W. Cor throat to drain

23.10 22.59 22.09 22.04 23.24  
5 3 2 G cl

0+73 - 1<sup>o</sup> Lt. = E 2' x 9" conc. box drain

23.33  
23.13 22.11 22.07 23.07 23.31  
5 2 2 1 G cl  
pave I.E. pave

0+69 = E.C. 10' Rad cl. R. Lt.

23.39 23.35 23.21  
5 cl G



Robert  
Cota  
Moore  
Riley  
12-26-52  
W.O. 25020

X-Section Alley Block 4, College Park #1  
Montezuma Rd. to College Place  
Westerly of College Avenue  
TP 23 pg. 30 Map 2196 sheet 4

12.

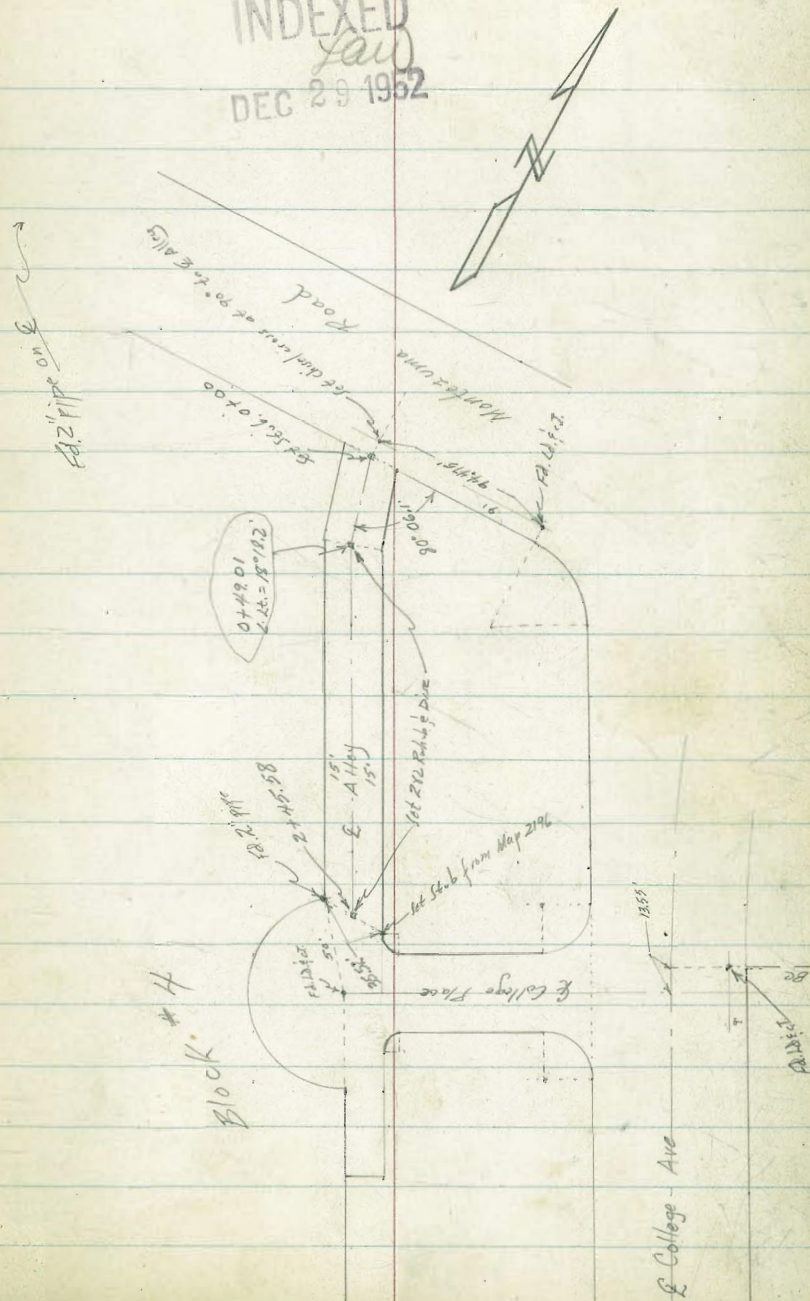
INDEXED  
Law  
DEC 29 1952

Montezuma:

No opening in curb at Alley  
A.C. Paving  
52' Roadway  
35' Curb to Walk  
5' Walk  
14' Curb Face to Prop. Line  
80' Street

College Place:

40' Street  
A.C. Paving  
30' Roadway  
5' Combination Curb & Walk to Banjo  
In Banjo Curb Radius 45'  
No Walk in Banjo.





Cont'd From Page 12

Lt

R

Rt 13

1+00

4462	4465	4452	4462	4452	4452
5.0	5.4	6.0	5.7	6.6	13.3
25	15		15	28	50
					NOT Bottom!

0+49.0) Angle Point (section on split)

4472	4462	4462	4452	4452	4452
4.6	5.7	5.6	6.2	6.1	13.0
30	152		152	20	30
					NOT Bottom!

0+15

4462	4462	4462	4462	4462	4462
5.0	5.1	5.1	5.3	5.6	11.3
30	15		15	20	30
					NOT Bottom!

Sly. Property Line Montezuma

4422	4462	4462	4462	4452
3.6	5.1	5.2	5.2	6.3
50	152		152	50

Sly. Curb line Montezuma

4442	4442	4442	4442	4442	4442	4442	4442	4442	4442	4442	4442	4442	4442
2.48	2.90	3.22	4.29	4.71	5.26	5.71	5.09	6.05	5.50	7.07	6.46	8.34	7.73
100	100	50	50	152	152	6.46	cb	152	152	50	50	100	100
cb	6.46	cb	6.46	cb	6.46			6.46	cb	6.46	cb	6.46	cb

Montezuma Road

4442	4422	4422	4452	4442
2.56	3.75	5.13	6.43	7.23
100	50		50	100

BM 2.04

451.87

449.83 NEB.P.  
College Ave. and  
Montezuma Road

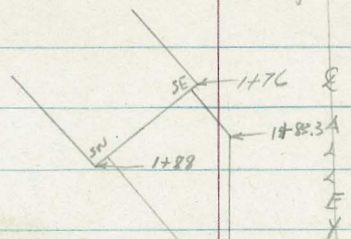
451.87  
1

Sections taken Parallel to Montezuma.



Cont'd From Page 13

1783.3 12<sup>5</sup> Rt to Cor. Conc. Apron.



1776 15<sup>5</sup> Rt to S.E. Corner Garage

1770

T.P. 4.99 452.55 4.31 447.56

1765.1 15' Lt begin Concr. Block wall

1750

Lt

Q

Rt 14

448.00	448.31	448.85
453	454	370
125	15	25
conc	conc	conc

448.86

3.59  
15<sup>5</sup>  
Floor

448.8	447.0	446.8
4.1	5.6	5.8
15	5	

448.0  
4.5  
15

452.56  
1

453.1	448.5	447.4
4.0	3.8	4.8
15	15	15
Top	GRD	Footing

448.2	447.5	446.5	446.8	447.9
3.6	4.4	5.3	5.1	4.9
30	15		15	30



Cont'd From Page 14

Lt

R

Rt 15

2+51 14<sup>3</sup> Lt at Rt. angles to 3" Lemon Tree

2+41 12<sup>0</sup> Lt to center of Grapefruit Tree

2+35 15<sup>3</sup> Lt END CONC RET. WALL

4470	4480	4470
1.9	2.9	5.3
153	153	153
Top	GRD.	Foot.

2+28<sup>E</sup> End Conc. Apron

4476  
4.87  
12'  
conc.

2+25 12' Lt to center of Peach Tree

2+14 { END CONC. BLOCK WALL  
{ BEGIN CONC. RET. WALL

2+00

4480	4480	4470	4470	4470	4480	4480
3.8	3.8	5.6	5.6	4.69	4.34	3.80
15	10	6		126	15	22
				conc	conc	conc

1+88 32' Rt to S.W. Cor. Garage

348.96  
359  
32  
Floor



Cont'd From Page 15

Lt

Rt 16

check

3.29

449.82

0.01

= 449.83

Starting BM

Reduced By Leachhead 12-30-52

T.P.

6.49

453.11

5.93

446.62

2+85.2

E College Place

447.82

4.63

100

447.81

4.74

50

447.55

5.17

447.25

4.80

50

448.28

4.27

50

2+70.2

Nly Curb Line College Place

448.33

4.22

60

cb

447.20

4.85

60

Gutt

448.10

4.45

35

cb

447.52

5.03

35

Gutt

447.42

5.13

15

447.22

5.23

447.52

5.03

15

447.64

4.91

40

2+45.58

(Section taken on line from 2" pipe to stub)  
Limits College Place (AC Paving)

448.01

4.54

13.75

cb

447.57

5.02

13.75

Gutt

447.22

5.33

447.57

5.04

13.25

Gutt

448.02

4.53

13.25

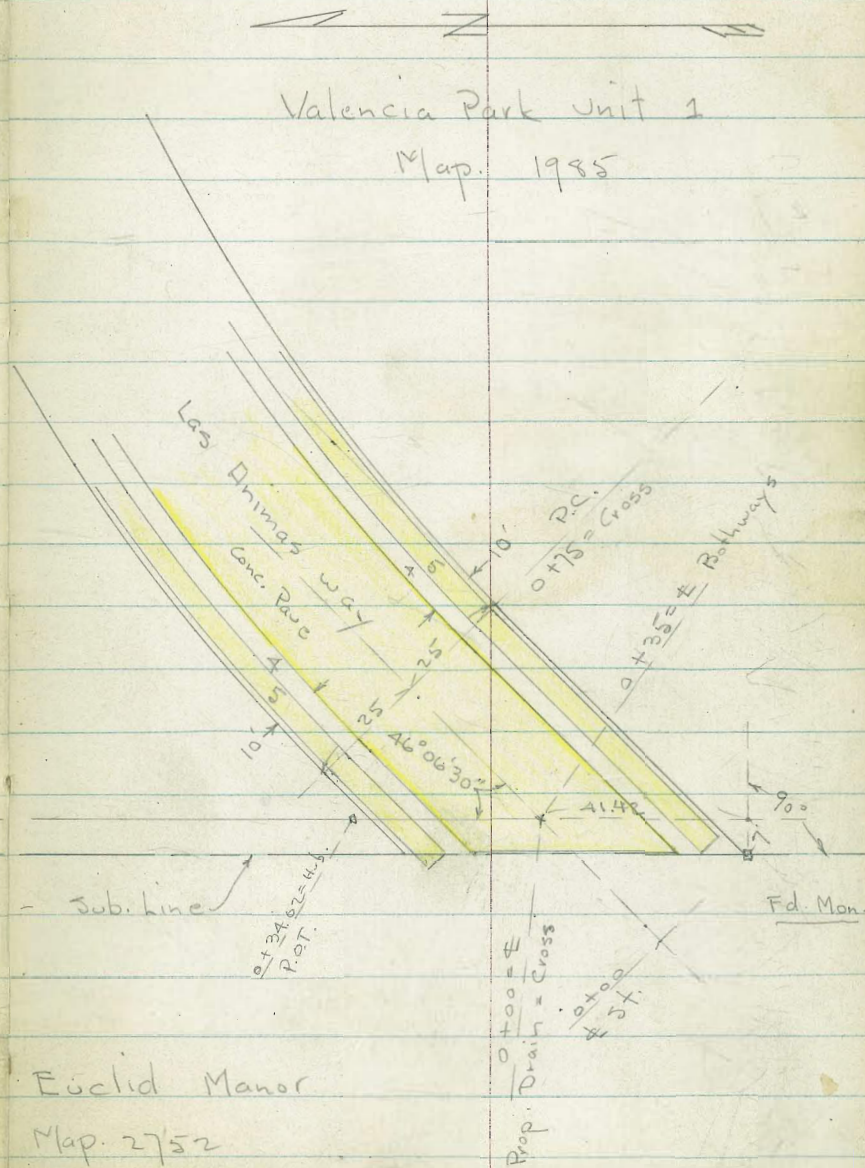
cb



INDEXED  
LW  
FEB 11 1953

17

Valencia Park unit 1  
Map. 1985



± Curves - See plan for  
Line

Manzanares way  
Fd. pipe at

2+49.21 = Hub.  
± Exist. 36" R.C. Pipe

0+78  
2465°50'

± outlet of 36" R.C.  
Pipe

Euclid Manor  
Map. 2752



INDEXED

FEB 1 1953

X-Sect. Swly. end of Las Animas Way  
for Prop. turnaround + Inlet.

# 238 2-9-53 7.0

W.O. 21068

of walk  
0+63.2 - 2' R. = Beg. Conc. Block wall at edge

0+59.3 = ± 17' Conc. Dr. on Rt.

0+44.9 = end of walk on Lt. - No Support.

0+43 - 17.2 Lt. ± P. pole # J.P. 371986

0+39.1 = opp end of cb. on Lt.

0+29 - 15' Rt. = ± Sewer M.H. Top = 188.36 I.E. = 180.24

0+25.3 = edge of Pav. on ±

0+10.5 = opp end of cb. on Rt.

± of Prop. Drain - See sketch - P. 17  
0+00 = 35' Swly. along ± of Las Animas from

± Sly. Line Las Animas  
B.M. on Mon. - Sub. line

185.71

B.M. on H.b. 0+34.02

190.68

B.M. = ± ct. San Jacinto  
+ Churchward.

189.45

Lt.

±

Rt.

18

884	90.97	90.86	90.82	90.22	90.84	90.46	91.18	91.35	92.33
130	24.2	19.2	Top	15.1		14.9	19	24	30
		walk		gut.		gut/in	walk		Dr.

91.67 = walk  
24  
96.53 = Top  
wall

89.90	89.73
24.1	19.1
Cor. walk	

85.1	89.13	88.55	89.30	88.86	89.48	89.62	89.69
25	Top	15.1		15	Top	19	24
	end cb.	gut		gut.	walk		

79.1	88.0	88.11	87.62	88.20	88.38	88.37
25.	9		14.9	Top	18.7	23.9
			gut.		walk	

88.1	87.6	86.14	86.25	87.00	87.6
15		15	Top	19	25
		gut.	end cb.	Cor. of	walk

77.1	83.8	86.2	85.5	86.1	88.1
10		5	15	28	30

100' fig. not Noted.

Actual Elev. Shown.



Lt.

#

Rt.

0+75 = approx P.C. ← end

88.4  
30

91.89	91.95	91.96	91.34	91.9	91.47	92.08	92.20	92.32
242	19.3	Top	15.2		15	Top	19	24 at
walk			gt.		gt		walk	walk



Lt. ± Rt.

INDEXED  
Law  
FEB 11 1953

Req. Levels along ± of Prop. Drain along  
Wly. Sub. Line of Valencia Park Unit 1  
see sketch - P. 17 to Las Animas Way

1+40 = T.P.

1+26 - 7' Lt. = ± P. pole # J.P. 371985 172.26 = spike

1+10

0+90

0+73.9' - 4' Lt. = ± Sewer M.H. - 6" line parallel

0+53

0+33.7 = Nly. of walk

0+26.7 = Sly. of walk

0+21 = ± at Nly. curb

0+00 = ± Las Animas - 7' E. of Sub. line

70.7 70.8 69.7 68.3  
15 7 15

71.2 72.0 71.8 70.9  
15 7 15

76.7 75.7 74.3  
15 15  
Top

78.7 81.7 78.60 82.39 79.7 79.8  
15 10 IE Rim +  
Top 4' Dirt

80.7 84.5 85.1 86.2 92.2  
15 9 7 20 = Top  
Top

86.2 90.3 90.87  
10 3 walk

90.37  
walk

89.42 90.01  
put. Top

88.37 88.93  
7  
edge Conc.



4.73	6122
1378	1801
18.01	4321

Lt.      †      Rt

2 + 49.21 = † of 36" RC. Culvert.

48.39 = I.E. of outlet.  
 28.2 along † 36" = outlet  
 58.7    62.0    61.91    60.7    60.6  
       15        7    on Hub.        7        15

2 + 38

49.1    57.2    61.4    62.1    60.2    60.9  
       26        15        7                    7        15  
 † wash by outlet.

2 + 28.5 - 4.6 Lt. = † Sewer M.H.

161.22 = † on Elm

53.2    52.9    56.2    59.5    61.0    61.4  
       30        15        6.46        7        18  
 43.21 = I.E. of M.H.  
 Bot. of wash

2 + 10

56.2    59.5    62.3    62.3    62.4  
       25        15        7                    15

1 + 85

65.9    66.1    65.7    64.8  
       15        7                    15

1 + 70

70.2    70.2    66.9    66.0  
       15        7                    15







Proposed Storm Drain in Walnut Ave  
India Ave + Kettner Blvd

LT

2

Rt.

23

TP, 8.29 53.89 0.80 45.60

53.89

0+26

45.4  
20  
10

42.7  
22

43.2  
21  
10

1. 8°16' Rt. underground  
0+15 = approx end 24" RCP + begin 24" corr Metal pipe

41.5  
49  
10°

41.2

41.2  
45  
10

0+13.8 2° Rt = Fly end Curb Return + Fly edge

MC

40.20  
55.0  
MC

40.84  
45.4  
210  
90T  
CB

41.48  
49.2  
20  
CB

0+11.8 2° Rt = EC Curb Return

40.86  
55.4  
210  
90T  
EC

41.58  
49.2  
20  
CB  
EC

0+01.5 ± = Fly Curb Line Kettner Blvd.

44.4  
22  
160  
CB

43.57  
283  
160  
90T

42.10  
430  
60  
CB

41.26  
50.4  
60  
90T  
BC

40.51  
589

40.49  
597  
128  
90T  
BC

41.06  
534  
128  
BC

40.35  
615  
50  
90T

40.89  
511  
50  
CB

39.92  
648  
100  
90T  
CB

0+00 = 3° N+5 + 2° E+W Drop Inlet SECOR

Kettner + Walnut

40.52  
588  
grate

37.25  
865  
IE  
24" RCP  
To City

37.25  
865  
IE  
18" RCP  
To City

46.40

836033-H

BM

4.76

46.40

41.64

S.E. spike in power pole (Bench Book)



Proposed Storm Drain - Walnut Ave  
between India + Kettner -

LT

2

et.

24

TP<sub>2</sub> 12.31 65.19<sup>↓</sup> 1.01 52.88<sup>↓</sup>

65.19<sup>↓</sup>

1+80 toe cut to et.

671	581	571	461	461
+ 13 <sup>2</sup>	+ 4 <sup>2</sup>	2 <sup>2</sup>	7 <sup>2</sup>	7 <sup>2</sup>
16	10		7	10
Top Fill			Toe fill	Edge lightly oiled parking Area

L = 17°41' LT

clean out in India St

1+65<sup>↓</sup> = wly end 24" corr pipe from type F

630	532	445	452	452	452	452
+ 9 <sup>1</sup>	0 <sup>2</sup>	4 <sup>4</sup>	8 <sup>2</sup>	8 <sup>6</sup>	8 <sup>2</sup>	8 <sup>6</sup>
25	10	3	2	15	10	10
Top Fill				Edge oiled parking		

Wly L = 5°43' LT

1+30<sup>?</sup> = end 24" corr metal pipe

570	512	470	422	422	422	422
+ 3 <sup>1</sup>	2 <sup>1</sup>	6 <sup>3</sup>	10 <sup>2</sup>	10 <sup>9</sup>	9 <sup>0</sup>	9 <sup>0</sup>
23	10	3	2	15	4	10
Top Fill				Edge oiled Park area		

1+00 - 7' et = Nly edge lightly oiled parking Area.

531	492	455	442	442
0 <sup>5</sup>	4 <sup>0</sup>	8 <sup>4</sup>	9 <sup>6</sup>	9 <sup>6</sup>
17	10	8	7	10
Top Fill	on slope			

0+75

504	503	450	444
3 <sup>1</sup>	3 <sup>0</sup>	8 <sup>2</sup>	9 <sup>5</sup>
15	12 <sup>0</sup>		10
	Top Fill		

0+74 - 4<sup>8</sup> LT = 12" power pole # 1851

0+50

465	462	440	432
7 <sup>4</sup>	7 <sup>5</sup>	9 <sup>2</sup>	10 <sup>0</sup>
10	8		10
	Top Fill		

53.89<sup>↓</sup>











Levels fax drain page 26.  
Notes by Allen.

LT

et. 27

2400

320  
10 7  
15  
318  
10 9  
15  
312

1450

317  
9 0  
15  
312  
9 5  
15  
312

1400

345  
8 2  
36  
341  
8 0  
10  
342  
8 5  
15  
340  
8 2  
15

0+6.2

350  
6 9  
30  
373  
5 4  
5  
366  
1  
5  
5  
362  
10  
15

0+52.7 = 0.9 LT = existing 36" RCP

352  
6 10  
30  
372  
5 6  
5  
302  
12 6  
4  
368  
12 6  
4  
370  
5 7  
5  
362  
10  
15

0+00. Sections taken down easement line

372  
4 5 3  
on hub  
9' same

TP 4.36

42.74' 0.60

38.38'

42.74'

TP 6.32

38.98' 1.93

32.66'

BM 8.19

34.59'

26.40

stub on original line 4+66.90 Feb 2029 - Page 3.



Drain cont

4750

4100

3750

3700

TL

2.39

33.44

11.69

31.05

2750

2+33.16 Rt =  $\phi$  S.M.H. - Sewer Runs from

NE to SW

LT

272

6<sup>2</sup>

36  
Toe canyon  
slope

272

5<sup>1</sup>

31  
Toe canyon  
slope

283

5<sup>1</sup>

35  
Toe  
canyon slope

282

4<sup>7</sup>

50

294

4<sup>0</sup>

15

$\phi$

272

6<sup>2</sup>

283

5<sup>1</sup>

281

4<sup>3</sup>

291

3<sup>3</sup>

Rt.

272

6<sup>2</sup>

15

281

5<sup>1</sup>

18

294

4<sup>0</sup>

15

292

2<sup>7</sup>

18

28

33.44

282

13<sup>10</sup>

50

292

12<sup>100</sup>

25

291

12<sup>1</sup>

292

12<sup>0</sup>

15

282

19<sup>85</sup>

16

IE

282

12<sup>16</sup>

16

Rim

42.74



6+50

230	234	237	236	244
10 <sup>4</sup>	10 <sup>0</sup>	10 <sup>1</sup>	9 <sup>0</sup>	9 <sup>0</sup>
35	15		10 Toe	15

6+00

232	239	253	270
9 <sup>5</sup>	9 <sup>5</sup>	8 <sup>1</sup>	6 <sup>13</sup>
30	9 <sup>0</sup> Toe		10

5+80

251	252	253	274
8 <sup>13</sup>	8 <sup>13</sup>	8 <sup>2</sup>	6 <sup>13</sup>
15			15

5+00

264	262	262	262	272
7 <sup>0</sup>	7 <sup>2</sup>	7 <sup>2</sup>	7 <sup>2</sup>	6 <sup>2</sup>
45 Toe Canyon slope	15		10	15

4+59 = L. pt - 46050' - Section on split

272	270	268
6 <sup>2</sup>	6 <sup>4</sup>	6 <sup>5</sup>
15		15

4+585 - 1. <sup>1</sup> pt = 2 SMH.

274	274
14 <sup>40</sup>	6 <sup>30</sup>
15	15 Rim

33.44 x



6 Start BM page 27 7.04 26.40 ✓

6 7+43.63 = vly Line 35<sup>th</sup> ST

7+40 = Fly edge 3' wooden foot bridge

5 7+34 = 4<sup>5</sup> rt = 2 10" tel pole 592035H.

7+25 = 4<sup>1</sup> rt = 2 Deadman

7+12 = 1.0<sup>0</sup> rt = 2 S99H

7+05 = 2 Proposed drain crosses N+S water Main

6+83.63 = Fly Line 35<sup>th</sup> ST

212  
12 21  
10  
212  
12 21  
10  
212  
12 21  
10

REMOVED BY LOCKHEAR  
7-23-53

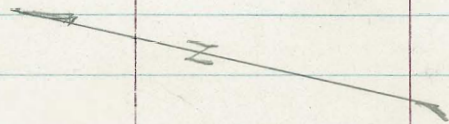
150  
100 104  
10  
IE  
2186  
11 5 100  
10  
Rim

183  
15 1  
Water Pipe  
218  
11 6  
ground

221  
11 100  
30  
223  
11 1  
15  
225  
10 9  
33.44  
224  
11 0  
25  
Toe  
243  
9 1  
40



INDEXED  
JER  
NOV 12 1953



→ To PC. at Albemarle

E. Line of Sea Breeze  
Map. 2847

± of Sea Breeze

R.E. 6170

Fd. 3/4" pipe

35'

25'

10'

PC

46.03

103.34

Cor. Not Found

lauder St.

Sub. Line

69° 02'

1+00 = End  
= Set Hub.

0+25.25 = Int. with EL. Prod.  
Set Hub.

0+00 - Chisel Cut  
in Top of Wall

8' Head well

24" Cor. Iron pipe

See B. 1753-P. 64  
for Exist. imp.

W. curb



Levels along  $\pm$  of prop Drain in  
Sea Breeze - S. of Lauder St.

see Sketch - P. 31

W.O. 21195 - 11-10-53 - 7.0

Set B.M. - spike in SW Pole  
Lauder + Sea Breeze 232.48

1+00 = end

0+70

0+35

0+15

0+05

0+00 =  $\pm$  inlet 24" Cor. Iron pipe + Headwall

B.M. = SW B.P. Sea Breeze  
+ Comber land. 241.95

Lt.  $\pm$  Rt.

32.2 30.26 29.9 30.3  
5 at Hub 5 10  
 $\pm$  wash

30.1 30.0 31.3  
= Top of 10'  $\pm$  wash 10  
Fill

34.3 29.7 30.9 30.6 32.4  
18 7 4 5  
Top  $\pm$  wash

32.0 28.6 29.8 31.5  
18 6 5  
Top  $\pm$  wash

30.7 26.9 30.2  
8 10  
edge  
Rt.

28.84 25.28  
Top of wall I.F. of pipe

200' figure not Noted.  
Actual Elev. Shown

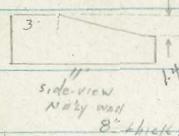


Clark  
Shepherd  
Bruner  
O'Neil  
12-24-53  
W.O. 21211

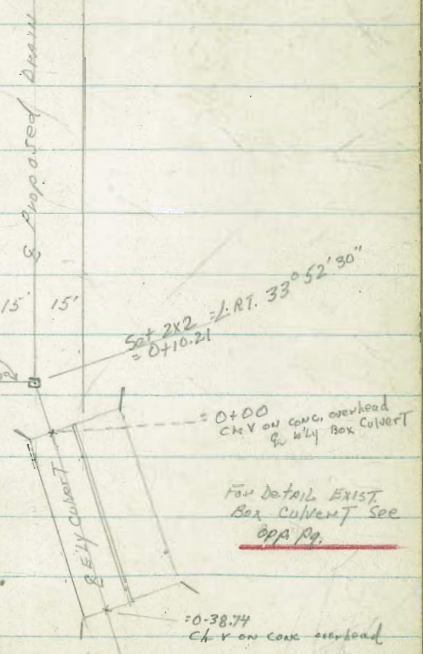
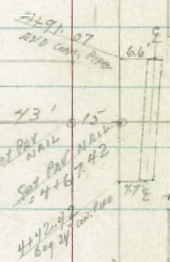
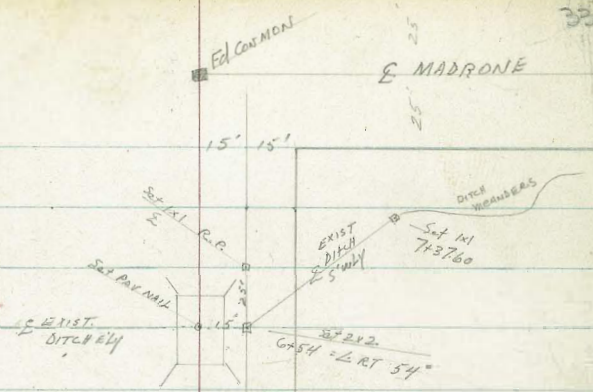
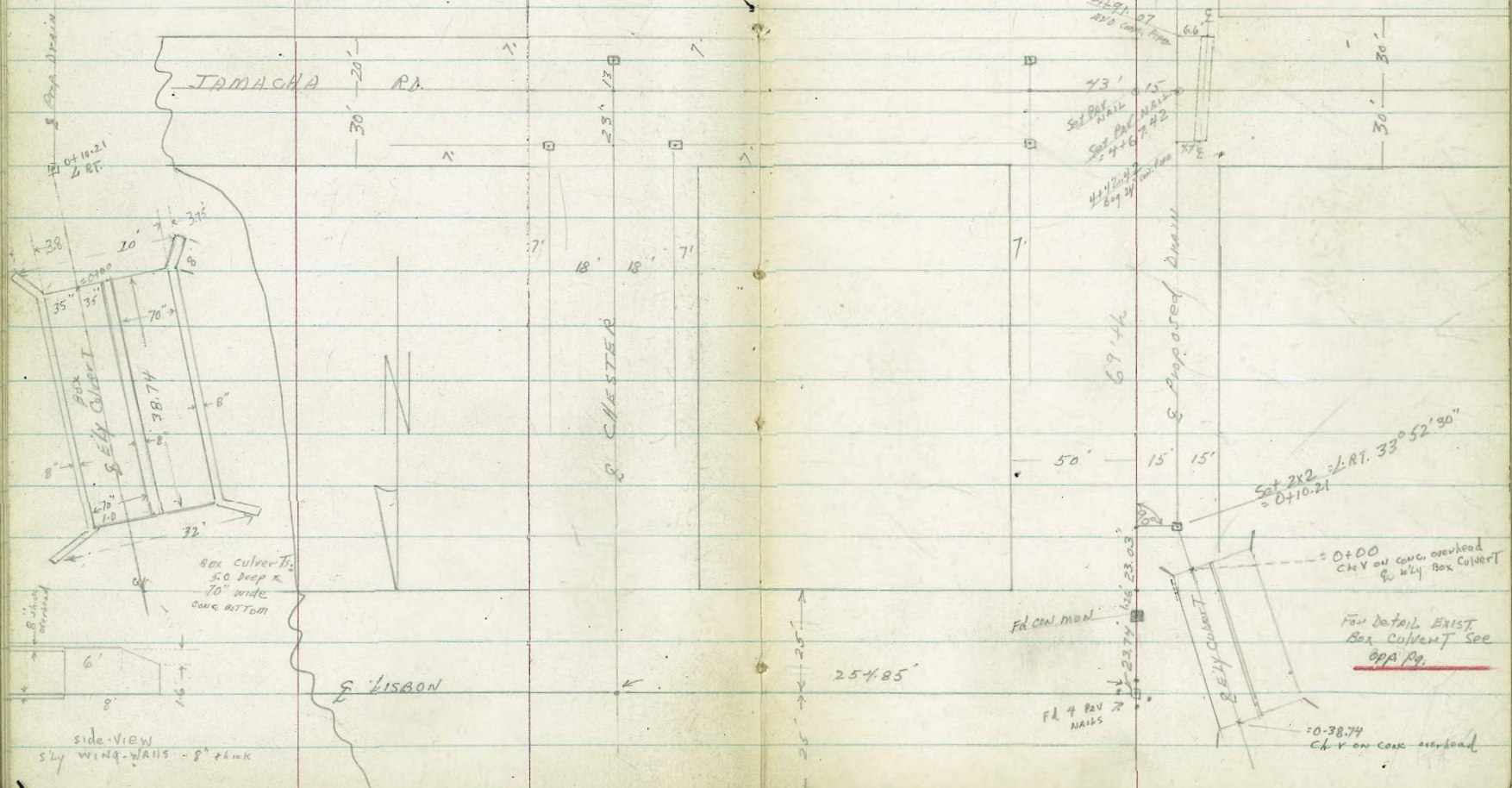
PROPOSED DRAIN: 6944  
IMPERIAL SLY TO CANYON  
S LY TAMACHA RD.

REF: F.B. # 1681-32  
T.P. SHEET # 3242

INDEXED  
DEC 31 1953



NOTE: See sketch Pg 38 for Detail Bridge



For Detail EXIST Box Culvert See OPR Rpt







DRAIN: 6946 IMPERIAL (cont)

3+00

2462	LT.					
4.7	2462					
15	4.7	7.3				
Rd Level	TP	to				
	BANK (Shoulder)					

2471						
7.6						
7.3						
7						
Toe						

2468	RT.					
4.6	2468					
10	4.6	8.6				
TP	TP	25				
BANK	BANK					

Level grad

T.P.

7.29 251.44 871 244.15

251.44

2+90

17.3 RT & Pole #370478

2+50

2472						
5.7	2472					
15	5.0	9.2				
Rd Level	TP	5				
	BANK	Toe				

2472						
9.4						
8						
Toe						

2472						
2.8	2472					
18	2.8	5.8				
BANK	TP	25				
	BANK					

Level grad

2+00

2472						
5.2	2472					
10	4.5	8.6				
Rd. Level	TP	5				
	BANK	Toe				

2472						
8.9						
8.4						
Toe						

2472						
4.3	2472					
13	4.3	5.9				
BANK	TP	20				
	BANK					

Level grad

1+50

2476						
5.3	2476					
15	4.7	8.2				
Road Level	TP	6				
	BANK	Toe				

2476						
8.3						
8.0						
6						
Toe						

2472						
5.2	2472					
10	5.2	5.2				
Shoulder	TP	18				
	BANK					

2476						
2.3	2476					
18	2.3	5.3				
TP	TP	25				
BANK	BANK					

Level grad

1+45

17.5 RT & ANCHOR (pending, etc)

1+00

17.3 RT & Pole #370479

1+00

2482						
4.8	2482					
15	4.0	8.0				
Road Level	TP	5				
	BANK	Toe				

2482						
7.9						
7.6						
6						
Toe						

2481						
4.8	2481					
14	4.8	4.6				
Shoulder	TP	15				
	BANK	2.5				

Level grad

0+50

2492						
3.8	2492					
10	3.2	7.0				
Rd. Level	TP	4				
	BANK	Toe				

2492						
6.9						
7.2						
9						
Toe						

2491						
3.8	2491					
13	3.8	0.8				
Shoulder	TP	20				
	BANK	252				

15' cut in BANK here

252.86















B.A. SMITH  
& PARTY  
4-1-54

(14)

INDEXED  
APR 2 - 1954

existing picket  
+ + + + +  
+ + + + +  
+ + + + +  
+ + + + +

MIDWAY (WLY END)  
Street  
Top of Bank to  
Beach

0468

0738 end (w) fence

Lt = Nly

Base  
LINE

PT = S1y

3.9

346  
7.8

20  
Existing  
inlet  
grate

	37.7	37.4	37.5	36.9	36.7	36.7	36.2
0438 top bank	47	50	42	55	57	62	62
	30	20	10		10	20	30

TP<sub>3</sub>

72 π 42.4

02 342

0422

	31.3	28.7	28.0	25.1	23.3	24.7	26.6	29.4	31.1
	43	74	76	105	121	102	90	62	45
	26	18	13	8	4	7	24	29	

0420

	31.5	26.0	25.7	19.6	19.0	19.1	23.7	25.4	27.7	31.0
	44	95	104	160	162	165	124	102	84	46
	27	19	9	6		2	4	13	20	29

16" high con. cutoff  
wall  
washed out under it.

TP<sub>2</sub>

10.5 π 35.6

04 25.1

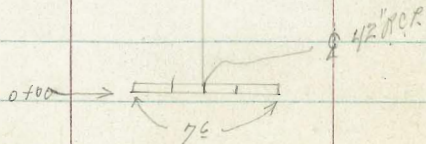
0410

	26.2	17.7	12.0	12.7	15.1	16.8	23.4	29.1
	13	12.8	13.5	12.8	10.4	8.7	2.1	7.36
	16	5		4	6	10	19	24

TP<sub>1</sub>

13.0 π 25.5

0.8 12.5



0700

	11.3	5.5	6.6	4.3	10.3
	2.0	7.8	7.7	9.0	3.0
	8	5	Top Hd walls	5	10

BM 13.3

π 13.3

0.0

ie 42" RCP  
at outlet.



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

INDEXED  
JUN 28 1954

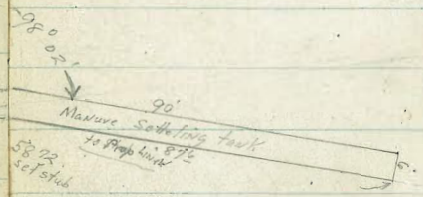
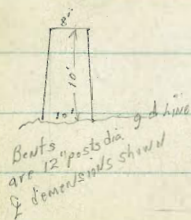
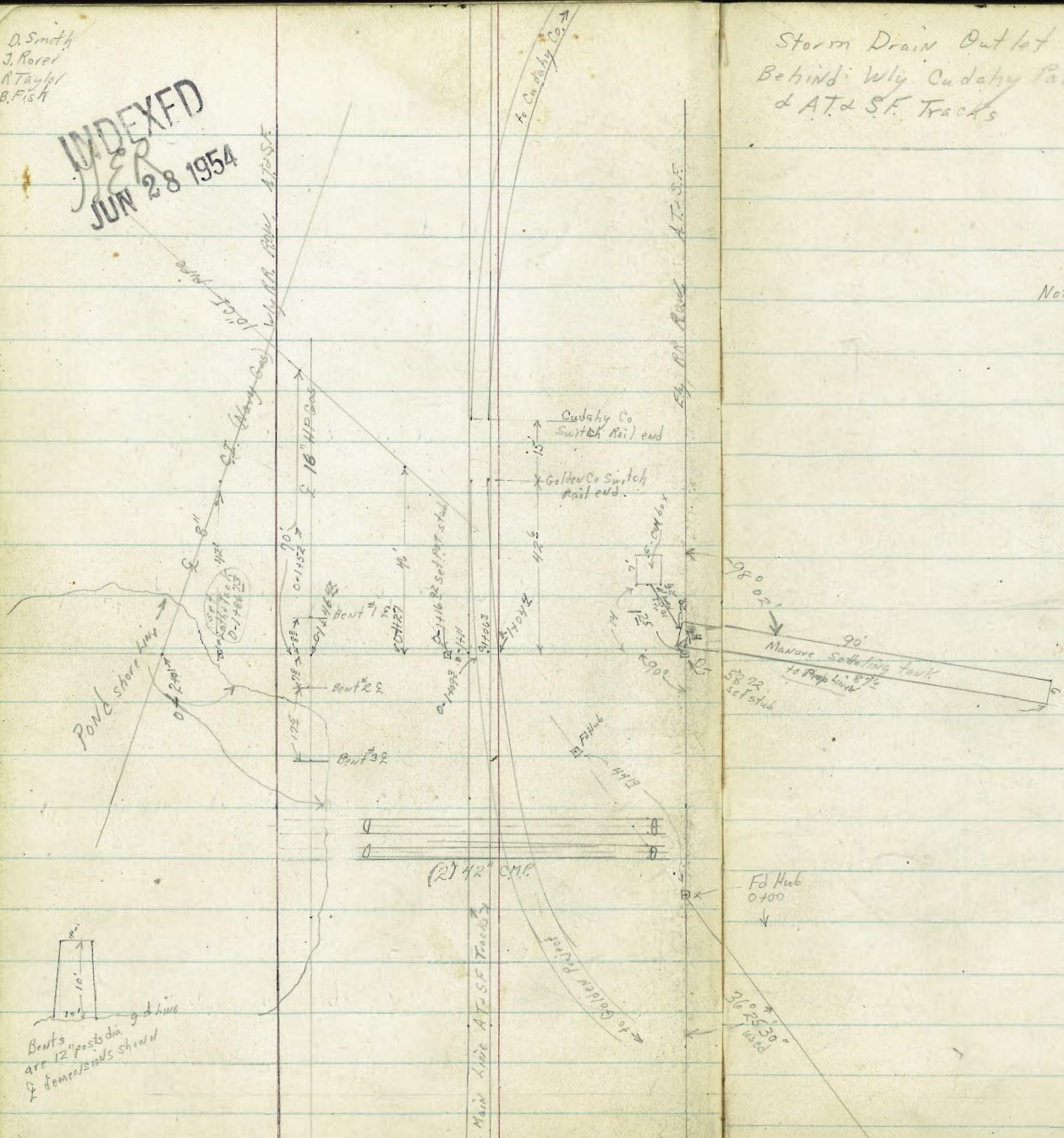
Storm Drain Outlet  
Behind Wly Cudahy Packing Co.  
& AT & S.F. Tracks

W<sup>o</sup># 20978  
6-21-54

40

Ref: FBR24134

Note We guess that the (2) 10" pipe meet and are sewer out of tanks.



scale 1" to 40'



Lt = Wly  
2Sly  
Base  
2int  
Rt = Ely  
2Nly

Lt = Sly  
Base  
Rt = Nly

0-94

42 46 46 46  
16 8 10

1789 water edge

water

15.5 15.2  
10 water

0-76

6.3 6.1 6.1 6.3  
6.6 6.0 5.1 5.1  
16 8 10

1760

1.1 1.3 2.1  
15.5 13.2 10.3  
6 10  
water edge

0-70

6.4 6.0 6.0 6.2  
7.0 6.5 5.2 3.0  
14 8 10 14  
top  
edge  
surf

1746.48 E crosses N. H. P. Cas

1742

1.1 1.5 3.3  
15.5 13.2 9.1  
16 8 10  
water edge surface

0-58.72 L. 119.0

6.2  
6.2  
ev. studs

1732

1.2 2.4 3.4  
11.3 10.0 9.0  
16 10

0-43

6.6 5.8 4.7 5.4 5.9 6.0  
5.2 6.6 7.2 7.0 6.5 6.4  
20 15 8 10 20

1718

8.8 9.2 9.2  
3.6 3.3 3.3  
16 10

0-25

6.4 6.3 6.1 5.0 2.1 4.3 3.6 4.7 5.2  
6.0 6.4 5.7 7.4 10.2 8.1 8.8 7.2 7.2  
20 14 12 6 4 5 10 20

1711 Vly, Main rail, top shots

10.73 10.72 10.73  
15.9 14.5 14.4  
16 10

0400

6.1 6.2 6.8 2.4 2.0 1.4 4.5 5.4 8.1 8.1  
6.3 6.3 5.5 10.0 10.4 10.8 9.2 7.2 10.3 9.5 7.2  
20 10 8 3 24 ON HU 3 6 14 20 25

0799

9.6 9.9 10.0  
2.7 2.2 2.5 2.4  
16 8 10

B74

10.43 x 12.37

194 ie Sly 42.0 CMP. per FB 2241-37

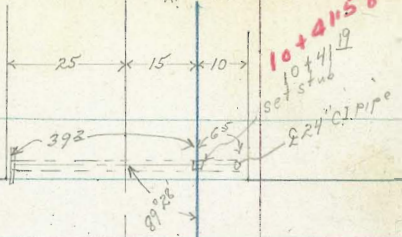
x 12.37







cont from bottom  
of P9 42



104419  
set stub

24" C.I. pipe

cont from bottom  
opposite P9,

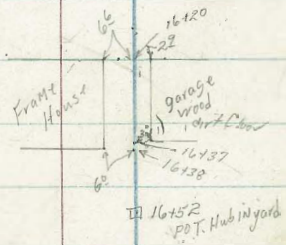
E Azusa St

Gaines St

E Riley St

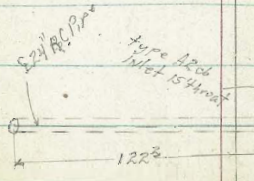
F.R.R. Spike

E Azusa St



1310139

1310100  
set stub  
with 24" pipe extended



cont from  
opposite P9

E Riley St



X Sec Proposed Storm  
Lt-Ely & Rt-wly

Drain University Rd down Azusa St  
to SD River  
Lt-Ely & Rt-wly

1+25

54.6 54.5  
8 8  
0 4  
54.5 54.2 54.5  
9 8 8  
10 5 10

2+68 L crosses Bkwalk

52.6  
51.42 51.5 50.4 49.7  
11 11 12 13  
8 4 10  
51.42 51.5 50.4 49.7

1+00

56.8 57.2 55.6 55.5 55.4  
6 5 7 7 7  
10 4 4 10 10

2+58 1/2 Mid Pt.

51.6 51.1 50.78 48.5  
11 11 11 14  
10 2 4 10  
51.6 51.1 50.78 48.5

0+75

59.0 59.0 57.4 56.2 56.5  
3 3 5 6 6  
10 4 4 10 10

2+45 3/4 BC Lt

52.0 51.9 50.5 48.3  
10 10 11 14  
10 3 4 10  
52.0 51.9 50.5 48.3

0+50

68.5 59.5 57.5 57.5 58.7  
4 3 5 5 4  
10 8 5 8 10

2+25

52.4 52.2 51.2 49.4  
10 10 11 13  
10 6 6 10  
52.4 52.2 51.2 49.4

0+10

57.93 57.8 59.2 59.2  
4 3 4 4  
10 3 4 10

2+00

52.0 50.4 51.1 49.4  
10 10 11 13  
10 8 8 10  
52.0 50.4 51.1 49.4

0+02 Lt Lt 81° 43' 30"

90° + 1/2 in. 4.08

58.1 58.74 57.45 61.89  
4 4 3 0  
10 10 10 10

1+75

58.7 54.1 53.0 51.9 52.1  
8 8 9 10 10  
10 3 8 10  
58.7 54.1 53.0 51.9 52.1

0+00 outlet 24" CIP

58.1 58.74 57.45 61.89  
4 4 3 0  
10 10 10 10

1+50

58.7 54.1 53.0 51.9 52.1  
8 8 9 10 10  
10 3 8 10  
58.7 54.1 53.0 51.9 52.1

BM

1287 T 6276

4989 top of end  
37+40 2781  
FB 2241

T 6276



Lt = Fly      Rt = Why

Lt = Fly      Rt = Why

45

3488

43.90  
722  
10  
82  
93.1  
94  
25  
92.4  
10  
91.25  
50

719

029

51.82

1123

51.53

Chapel Hill 5' NW  
of N. H. 100  
at W. H. 100  
University, N.C.

3483

44.22  
70  
10  
726  
72  
10  
45.0  
94  
10  
42.7  
95  
25  
42.3  
102  
50  
41.6

52.35  
10/11  
50  
51.88  
10/28  
50  
52.19  
10/29  
25

51.71  
11/05  
30  
51.65  
11/11  
10  
52.10  
10/30  
10  
51.69  
11/07  
90

52.11  
10/65  
06

51.82  
10/94  
10  
52.25  
10/51  
10  
10/01  
10  
10/01  
10  
10/01  
10

67<sup>25</sup> BC Fly Return

11/11  
10  
94

10/30  
10  
10/01  
10  
10/01  
10

10/65  
10  
10/01  
10  
10/01  
10

3467

44.69  
713  
10  
44.22  
70  
2  
44.7  
76  
23  
43.8  
80  
42.3  
102  
50  
41.7

51 along A side line

51.53  
1123

3448 gutter Sly Limba V. St. Rd.

45.09  
623  
10  
44.57  
725  
15  
43.80  
803  
30  
43.09  
824  
50  
41.86  
926

34 along A side line

51.24  
1158

3435

46.34  
548  
10  
45.93  
589  
15  
45.20  
662  
30  
44.27  
755

17 along A side line

50.85  
1124

3410

49.07  
223  
10  
49.59  
723  
10  
48.07  
325

2473<sup>06</sup> Mid P4 return  
L. Rt 44° 46'

50.64  
1248  
06  
50.16  
1260  
94

2471<sup>06</sup> F.C.

50.71  
1205

3400

48.18  
223  
10  
48.37  
245  
10  
48.49  
223  
10

62.24

51.82



5725

Lt-Nly  
48.31  
3 1/2  
48.35  
3 1/2  
48.2  
3 1/2  
48.1  
3 1/2

5700

47.81  
3 1/2  
47.21  
4 1/2  
47.8  
3  
48  
3 1/2

4775

46.54  
5 2/3  
46.09  
5 2/3  
46.8  
5  
46.5  
5 2/3

4750

45.28  
6 1/2  
44.88  
6 1/2  
45.1  
6  
45.3  
6 1/2  
45.0  
6 1/2

4741 4<sup>2</sup> RT & bush

4729 4<sup>3</sup> RT & bush

44.12  
7 2/3  
43.79  
8  
44.1  
7 2/3  
44.2  
7 2/3  
44.2  
7 2/3

4725

4718 4<sup>2</sup> RT & Bush

41.65  
10 1/2  
41.49  
10 2/3  
41.0  
10 1/2  
41.7  
10 1/2  
41.5  
10 1/2

50' wly line extended

7' wly 4<sup>2</sup> RT & Bush

43.57  
8 2/3  
43.20  
8 2/3  
43.07  
8 2/3  
43.8  
8  
43.3  
8 2/3

90° to line ahead

4713<sup>33</sup> L. Lt 7106'30"

51<sup>32</sup>

7100

Lt=Nly  
48.0  
7 2/3  
47.7  
8 1/2  
47.5  
9 1/2  
47.8  
9 1/2  
47.5  
9 1/2  
45.90  
9 1/2  
45.90  
9 1/2

6775

47.2  
6 1/2  
47.2  
8  
47.4  
6 1/2  
47.1  
6 1/2  
47.6  
7  
47.79  
10

6750

46.9  
4 3/4  
46.5  
5 1/2  
46.4  
6  
46.3  
4 3/4  
46.0  
5 1/2  
45.55  
5 1/2

6725

45.26  
26  
45.16  
36  
45.31  
21  
45.4  
18  
45.6  
26  
45.66  
36

6718 7<sup>1</sup> Lt 18' P P 1/2 20 99

6711<sup>88</sup> L. RT 9° 13'

on split.  
530  
92.6  
530  
22  
26  
20  
14  
10  
4  
12  
12  
156  
156  
264  
381  
20  
20

5778<sup>137</sup> ESMH

Flows  
Fly to Sly

4407  
113  
133  
14  
283  
52  
133  
rim

5775

32.42  
31.5  
31.08  
44  
32.58  
46  
32  
51.3

TP<sub>2</sub>

451  
55 19

1<sup>14</sup> 50 68

5750

50.54  
123  
50.88  
124  
50.5  
13  
50.5  
13

51<sup>82</sup>



8+75

Lt- Fly  
33.1  
11. 33.4  
3 11.2  
2 32.7  
11 32.9  
6 11.33.57  
10 10.33.62

8+50

35.0  
9.6 34.8  
3 35.1  
8 34.0  
2 34.1  
10.5 34.77  
10 9.80

8+25

37.0  
7.6 37.5  
3 35.8  
2 35.9  
8 36.26  
6 36.34  
10 36.34

8+00

38.7  
5.9 38.3  
3 37.7  
2 37.9  
6 38.23  
4 38.44  
10 38.44

7+75

41.1  
3.6 41.9  
3 40.0  
2 39.9  
4 40.00  
10 40.57

7+50

44.5  
0.1 44.5  
4 41.7  
2 41.7  
2 41.94  
10 41.94

7+25

46.4  
2.6 46.4  
4 43.3  
2 43.7  
15 44.01  
11.5 43.95  
10 43.95

T 55.19

27.1  
6.6 26.5  
7 25.9  
10 25.0  
8 23.4  
10 22.2  
11 22.2  
12 22.06  
3 25.6  
4 25.6  
1 63  
4 63  
10 25.54  
10 25.52  
20 25.37  
20 25.37  
30 25.78  
10 25.78  
10 25.78  
10 25.78

10+25

26.2  
7.5 26.2  
10 29.8  
2 29.8  
10 29.5

10+00

27.2  
6.5 28.2  
10 28.2  
5 31.1  
1 30.2  
3 30.2  
10 30.32

9+75

28.3  
5.4 28.4  
6 31.5  
1 30.7  
10 31.01

9+50

29.3  
4.4 31.3  
1 31.3  
2 31.3  
10 31.67

9+44 85 Lt & Fire Hyd.

11.5 Lt & 16" APD # 5401

9+35 10" Lt & (3) 4" El. conduits going up p Pole

9+25 31.4 32.1 32.31  
2.3 1.6 1.36  
10 10 10

9+18 3" Lt & 8" water gate

TP4 1.3 T 3.3 67

9+14 7" Lt & 8" water gate

9+00

31.9 32.4  
122 122  
10 10  
11.64 32.93  
10 10

8+94 45 Lt & 20" APD # 2001

T 44.57



Lt-Ely

E

Rt-Wly

12131 8<sup>6</sup> RT & Elec vault.27.7  
6<sup>5</sup>  
1027.6  
6<sup>4</sup>  
1027.48  
6<sup>3</sup>  
10

12128

12115 9<sup>8</sup> Lt Begin cur wall + 6' cycloest fence around

Power yard

12100

11775

11753 5<sup>5</sup> Lt & 18" P.P. # 1943

11750

11725

11700

10775

10759 8<sup>4</sup> RT & Elec vault.

T 3367

Lt-Ely

E

Rt-Wly

48

14150 RT end cur wall

29.1  
6<sup>5</sup>  
1029.4  
6<sup>3</sup>  
1029.54  
6<sup>4</sup>  
10

T.P.

6<sup>31</sup> T 35.584<sup>13</sup>

29.24

14125

14100

13189 8<sup>2</sup> RT & Elec vault.

13175

13150

13125

13108 7<sup>1</sup> Lt & water meter box13101<sup>00</sup> 8<sup>1</sup> Lt & 24" RCP extended

12175

12150

29.1  
6<sup>5</sup>  
1029.4  
6<sup>3</sup>  
1029.54  
6<sup>4</sup>  
106<sup>31</sup> T 35.584<sup>13</sup>

29.24

28.6  
5<sup>1</sup>  
1028.8  
4<sup>2</sup>  
1028.87  
4<sup>3</sup>  
1027.9  
5<sup>8</sup>  
1028.2  
5<sup>1</sup>  
1028.17  
5<sup>9</sup>  
1027.6  
6<sup>1</sup>  
1027.7  
6<sup>0</sup>  
1027.61  
6<sup>0</sup>  
1027.5  
6<sup>3</sup>  
1027.4  
6<sup>13</sup>  
1027.21  
6<sup>4</sup>  
1027.1  
6<sup>6</sup>  
1027.2  
6<sup>5</sup>  
1026.96  
6<sup>7</sup>  
1027.1  
6<sup>6</sup>  
1027.17  
6<sup>5</sup>  
1026.84  
6<sup>7</sup>  
1027.1  
6<sup>6</sup>  
1027.17  
6<sup>5</sup>  
1026.94  
6<sup>7</sup>  
1027.3  
6<sup>4</sup>  
1027.22  
6<sup>5</sup>  
1027.12  
6<sup>5</sup>  
1027.3  
6<sup>4</sup>  
1027.22  
6<sup>5</sup>  
1027.12  
6<sup>5</sup>  
10

T 3367



Lt-Ely

♀

Mt-Wly

on P.O.T. Hub  
16152

TP6

126

31<sup>24</sup>

630

29<sup>28</sup>

16120 wire fenced gate crosses E

30.7

42

10

30.8

48

10

31.1

45

10

31.4

42

10

15436 5" AIR water meter

31.6

40

10

15425

31.7

38

10

15412 9" 4" 4" conduits app/4

31.8

38

10

15407 9" Lt curb by close fence

31.8

38

10

15405 8" Lt &amp; Fire Hyd.

31.8

38

10

15400

30.6

40

10

14475

30.6

40

10

T 35<sup>58</sup>

Lt-Ely

♀

Mt-Wly

99

18405 13" Lt &amp; 6" Cycamore tree

18403 9" Lt &amp; 10" Cycamore tree

18400

17475

17455

17440

TP8

17410

TP7

16485

16473

16472 wire &amp; wood fence crosses line 5' high

16454

Lt-Ely

♀

Mt-Wly

99

18405 13" Lt &amp; 6" Cycamore tree

18403 9" Lt &amp; 10" Cycamore tree

18400

17475

17455

17440

TP8

17410

TP7

16485

16473

16472 wire &amp; wood fence crosses line 5' high

16454

6.0

72

10

6.67

10

7.2

10

7.0

10

6.2

10

10.9

10.5

10

21.4

21.4

10

21.9

8.6

10

21.9

21.9

10

5.5

74

10

6.67

10

7.2

10

7.0

10

6.2

10

10.9

10.5

10

21.4

21.4

10

21.9

8.6

10

21.9

21.9

10

6.1

71

10

6.67

10

7.2

10

7.0

10

6.2

10

10.9

10.5

10

21.4

21.4

10

21.9

8.6

10

21.9

21.9

10

12<sup>18</sup>9<sup>23</sup>

O.K.

12<sup>25</sup>18<sup>20</sup>T 31<sup>24</sup>



21750

10.7  
25  
10

10.1  
25  
10

10.1  
25  
10

21489 & crosses 4' wire Fence

21400

10.7  
25  
10

10.1  
25  
10

10.8  
24  
10

20450

10.0  
32  
10

10.1  
31  
10

10.1  
31  
10

20400

9.6  
36  
10

9.6  
36  
10

9.9  
33  
10

19450

9.2  
40  
10

9.2  
40  
10

1.5  
41  
10

19400

8.1  
51  
10

8.1  
51  
10

8.8  
48  
10

18475

8.2  
50  
10

8.2  
50  
10

8.8  
48  
10

18450

8.0  
52  
10

7.9  
53  
10

8.0  
52  
10

18435

6.5  
62  
10

6.6  
61  
10

6.5  
61  
10

18415 & crosses 4' wire Fence

TP 13 22

BM starting 09<sup>th</sup> Lt. Fly & Rt. Fly 127 4987 5000

TP14 200 314  
TP13 1330 5166  
TP2 1013 3822  
TP11 1167 3280

252 4924  
613 3836  
414 2836  
058 2113

TP10 1155 2174 44 43 362 1016

24480 94 95 96 10

24469 90 48 48 52 10

24467 & crosses 4' wire fence

Nly edge  
cut rubble  
cut of wall  
24433 51 72 77 83 10

24400 57 84 81 78 10

23450 78 61 61 62 10

23400 52 51 51 51 10

22450 25 52 51 51 10

22400 41 40 43 43 10

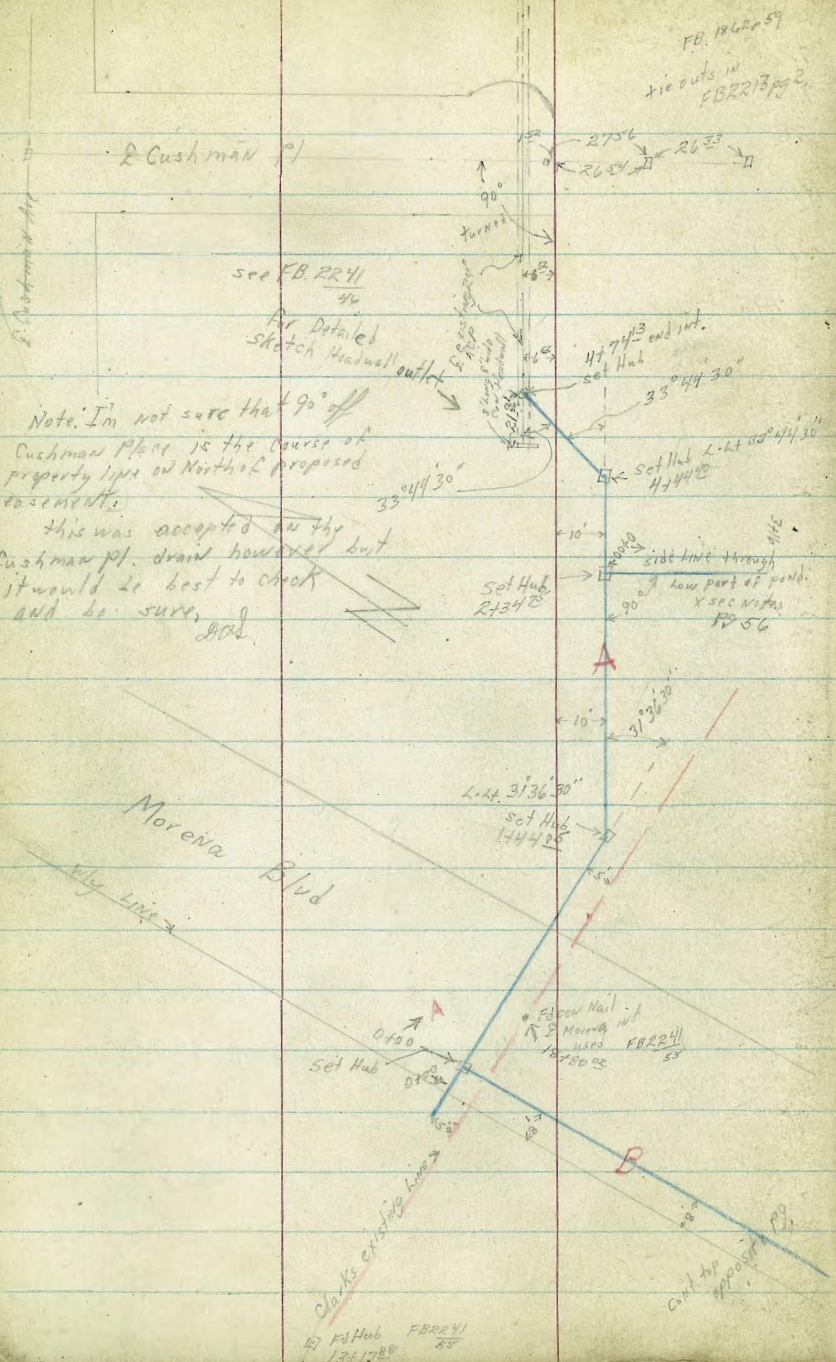
TP9 199 1378 143 11.79



E. Cushman Pl

E. Cushman Pl

Note: I'm not sure that 90° off Cushman Place is the course of property line on North of proposed easement. This was accepted on the Cushman pl. draw however but it would be best to check and be sure, Bob.



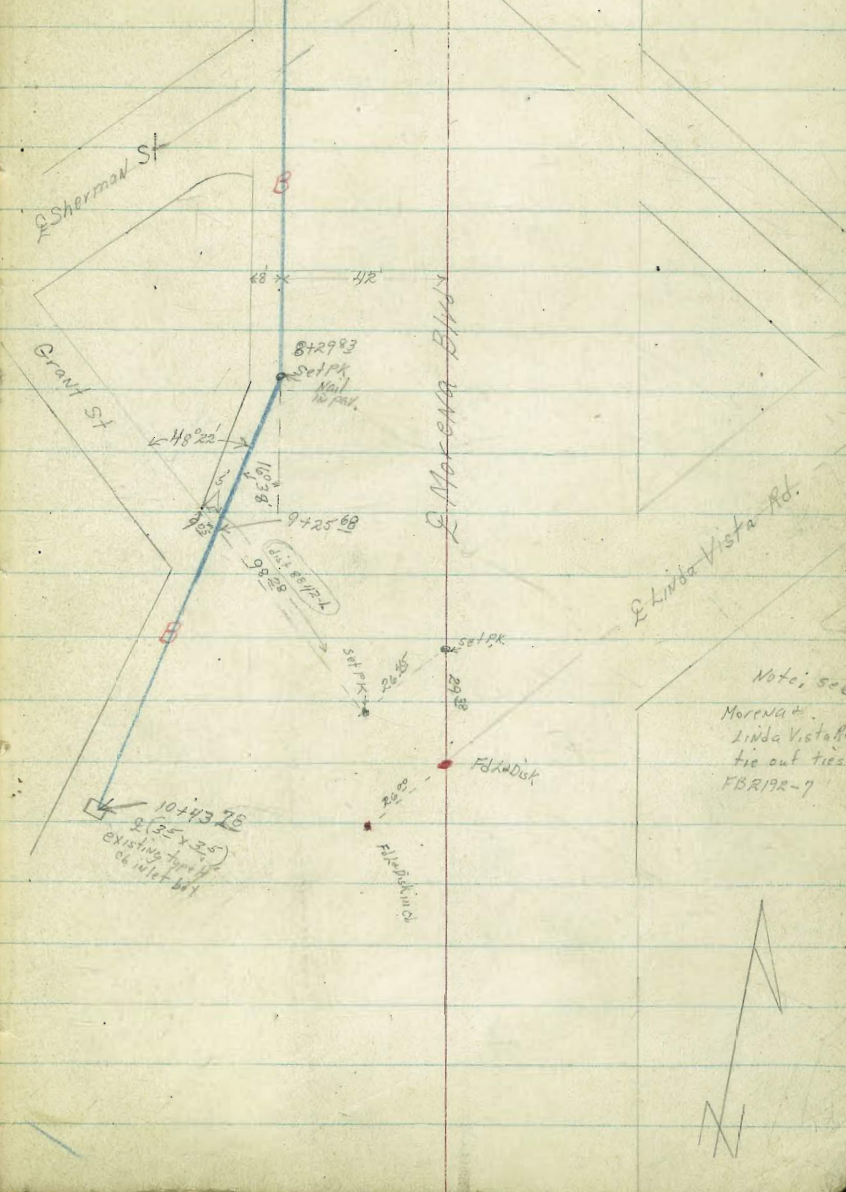
Set Hub FB2241 131728

cont to approach

cont from bottom L123  
Storm Drain Morena Blvd and Linda Vista Rd Area

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

51  
wott 20978  
6-24-54



Note: see Morena + Linda Vista Rd tie out ties FB192-7





X Sec 'A' Line  
 Lt-Nly

Morena Blvd  
 Rt-Sly

Storm Drain

Lt-Nly

Rt

Rt-Sly

52

1744<sup>05</sup> Lt Lt 31° 36' 30"

on split

16.2	12.1	15.9
5.3	5.4	5.6
10		10

1700

16.0	15.9	15.7
5.5	5.6	5.8
10		10

370

0775

15.5	15.9	15.9
5.6	5.6	5.5
10		10

3735

0772

17.6	17.5	17.7
5.2	4.0	3.8
10		10

3700

0766 Fly pav.

18.35	18.38	18.38	18.37	17.73	18.31
3.14	3.11	3.15	3.16	3.00	3.22
10	10	bin	cut	10	bin

2760

0742

18.45	18.35	18.36
3.08	3.18	3.27
10		10

2139

0716 wly edge Pav.

17.82	17.83	17.74
3.61	3.20	3.19
10		10

2700

0700

8' base to D white  
 2 5' Wly of Clarke  
 Morena Blvd.  
 Line.

18.5	18.21
3.2	3.32
34	ON
	Hub

1775

BM

6<sup>02</sup> 2153

15.51

on stud  
 20145 22 19 45  
 FR2241

7 2153

2734<sup>75</sup> 250700 Sly  
 POT



Lt=Nly

Rt=Sly

X Sec Morena 28' Ely of Whine

53

Lt=Ely

Rt=Why

BM starting

1152 1553

1761 1842 14" pipe # 4704  
1750 425 423 42 38 38 43 8  
125 125 10 7  
3rd term

✓ 1471 P.B. 224-47  
✓ 423

1747 Sly water vault

Flow line end existing 24" ACP

1232  
10  
end

1221 Nly corner's water vault 374  
1741 6784 top

2 int 24" ACP existing

47743 end

204 233 2828 224  
62 38 377 47  
10 5 ON Hub 10

1700

1679 1740 1710 179 174 175  
452 321 43 34 35 38  
1721 132 10 10  
5554 424" 10' 10' posts to direction sign

0773 45 RT

4760

200 216 216  
71 55 55  
10 10

0753 113 Lt & 4x4 Speed Limit Sign

0750

1721 1780 179 176  
400 323 34 32  
153 138  
3rd term 4th

TP

825

2705

343 180

ON Hub 474440

0735 E crosses Sly A.C. drive

1721 1762 1768 1745  
329 373 386  
10 8

474440

Lt 33° 44' 30"

ON SPIT

151 181 180 201  
64 34 343 14  
10 5 ON Hub 10

0715 E crosses Nly H.C. drive

1768 1766 1755  
363 365 376  
10 8

4728

147 164 163  
68 31 512  
10 10

0709 24 RT 12" pipe 4736

4725 E crosses 3rd barwire fence

142 150 153  
73 65 610  
10 10

8' East of Why limit  
Morena 5' Nly of  
0700 Clark's line

185 1819  
28 312  
3d ON Hub

4720

2153

BM

580 2131

1551

ON SPIT  
Rd 44582 1995  
18224



Lt-Flly ♀ RT-Wly

4125

14.57 15.0  
6:00 6:30 6:50 7:10 7:30  
8: 7: 4 9: 8  
Sat Sun

4400

14.08 15.04 14.5 9.8 9.8  
6:23 6:27 6:30 11:5 12:15  
12: 11: 9 8  
Sat Sun

3750

14.64 15.14 14.8 14.8 9.6 9.4 8.2  
6:07 6:17 6:5 6:5 11:7 12:2 13:4  
13:3 12:5 10 8 4 8  
Sat Sun

3701 2<sup>3</sup> RT & 14" pp/lo # 4674

$\frac{2.2}{1.2}$

3400

15.01 15.63 15.0 10.1 9.7  
6:30 5:68 6:3 11:20 11:6  
13:3 12:5 10 8  
Sat Sun

2495 7° RT & dead man

2465

15.34 15.96 15.5 13.7 13.9  
5:57 5:25 5:8 7:6 7:4  
13 12 9 8  
Sat Sun

2740

15.66 16.24 15.8 16.16 15.6  
5:55 5:03 5:5 5:10 5:2  
13:3 12:5 11 8  
Sat Sun

2400

16.48 16.0 16.6 16.5 16.3  
5:38 4:53 5:3 4:2 4:8 5:0  
13:3 12:5 11 8 8  
Sat Sun

T 21 31

Lt-Flly ♀ RT-Wly

51

5453 ♀ cross beam

15.16  
6:57

5450 ♀ crosses gutter

14.86 14.64 15.22 15.2 14.2  
6:07 7:09 6:57 6:5 7:5  
10 12 8 8  
Sun

5470

14.98 14.65 14.42  
6:75 7:08 7:31  
10 8

TP

7:11 7:21 7:3

6:72 14:59  
ON CON. NAIL  
5:40

5400

14.84 14.59 14.98  
6:47 6:72 6:28  
10 8

4481 ♀ crosses gutter

14.57 6:24

4477 ♀ crosses beam

15.14 6:17

4450

14.59 15.07 14.7 14.7 12.5  
6:23 6:24 6:6 6:6 8:8  
6:2 5:3 5- 8  
Sat Sun

4435 3<sup>5</sup> RT & Mercury vapor lamp in standard compass

4433 3° RT & dead man

4430 24 RT & 16" pp/lo # 4674

T 21 31



on split  
8129<sup>83</sup> L. RT 16° 38'

Lt=Ely  
15.85  
5.88  
10  
15.27  
6.16  
5.5  
9.1  
14.96  
6.77  
6.6  
8.4  
15.51  
6.2  
8  
14.8  
12.1  
15

BM starting

479

15.50

8100 E crosses gutter

15.52  
6.21  
10  
15.02  
6.21  
0.8  
8.4  
15.60  
6.3  
2  
15.0  
6.2  
8  
14.0  
7.2

TR

5.26 20.29

6.20 15.03

7195 E crosses beam

15.64  
6.09

2/23/35  
10443<sup>78</sup> type 1164 wht

14.59  
7.82  
6.28  
16  
grate 16

7164 20 RT E 16" pipe #4554

7150

15.18  
6.55  
6.3  
9.1  
15.76  
5.97  
5.4  
8.4  
15.0  
6.2  
3  
14.3  
7.4  
8  
13.9  
7.8  
8

10100

14.56  
7.17  
10  
14.16  
7.2  
3.0  
6.88  
7.6  
11.2  
8  
14.75  
14.1  
10.0  
13.1  
8.6  
15

7100

15.11  
6.62  
10.3  
9.1  
15.69  
6.04  
9.3  
8.4  
14.9  
6.8  
6  
13.5  
8.2  
7.8  
13.9  
7.8

7155 20 RT E 16" pipe #4520

14.78  
6.25  
10  
14.42  
7.31  
3.0  
6.20  
7.4  
8.2  
4  
15.03  
14.3  
13.0  
9.5  
12.5  
8  
15

6155 19 RT E dead man

15.07  
6.66  
12  
15.67  
6.06  
11  
15.0  
6.2  
8.4  
13.9  
7.8  
13.9  
7.8  
14.0  
7.2

6150

6146 20 RT E dead man

7100 E crosses beam

15.15  
6.58  
10  
14.59  
7.14  
13  
15.15  
6.58  
13  
14.5  
7.2  
1  
13.5  
8.3  
7  
10.0  
13.0  
8  
15

6115 20 RT E 16" pipe #4614

6100

14.83  
6.20  
9.0  
15.46  
6.21  
8  
14.5  
7.2  
5  
13.6  
8.1  
8  
15.6  
8.1  
8

8160

15.04  
6.19  
10  
14.89  
6.84  
15  
14.83  
6.20  
15  
15.13  
6.30  
15  
14.6  
7.1  
11.7  
12.4  
10  
12  
8

T 21.73

T 21.73



11 11  
X Sec

Side Line into Pond

Lt. Fly

Rt. Wly

Lt. Fly

Rt. Wly

56

1450

5	0	6	3	5	5	6	9	5
85	96	105	108	113	115	122	112	112
50	35	25	15	15	30	50		

BM starting

3415

12.0	10.2	9.5	9.0	8.2	8.8	8.5
50	25	10	7	10	28	50

1400

14	10	3	9	5.8	5	9	8	1
92	106	108	113	113	112	123	123	124
50	22	28	10	18	28	58	70	

3412

11.6	9.6	8.1	8.5	7.3	6.6	6.2
50	25	10	8	10	25	50

7.6m  
104  
water surface  
on pond

0450

@ 9:30 AM 6-23

6	3	3	3	3	3	6.0
85	98	98	108	98	11	
70	40	20	10	25		

3400

11.0	9.4	8.4	7.7	7.1	7.1	6.1	5.9	5.7	6.2
60	72	82	92	10	20	30	40	50	75

0438

8.4	1.9	8.0	8.2	17.0
85	93	91	82	01
50	30	10	15	

2450

9.6	8.1	7.2	6.9	6.6	6.3	5.5	5.5	6.6	1.0
75	90	92	103	105	108	115	116	105	101
50	25	10	10	20	30	40	50	60	

0416

8.1	1.2	8.0	16.2	16.4
90	92	91	02	02
30	20	15	10	

2400

8.9	7.9	7.1	7.1	6.9	6.6	6.6
82	93	102	102	103	92	103
50	25	10	10	30	50	

040054

243475 Fly

0.5 14.6

5' road to be filled  
across pond  
1475' quota prep. owner

10.5	9.1	9	7.2	7.2	7.0	7.1
66	80	92	92	92	104	100
75	50	25	20	40	60	

BM

048

1710

1662

243475 PM  
on Hub  
1952.

1710



X Sec Live Midred & Azusa St L.  
to sly end 18' RCP Linda Vista Rd.  
Lt-Wly E Rt-Ely

Lt-Wly

E

Rt-Ely

57

1400

62.1  
38  
12  
22  
14

0780

60.5  
50  
53  
10  
5  
12  
36  
14

0760

57.3  
66  
10  
53  
53  
7  
9  
3  
12  
6  
52  
42  
17

0739 14' Rt E 14' Anchor Pole

0732

55.3  
10  
9  
7  
36  
2  
13  
2  
8  
7  
14

0720

53.8  
12  
12  
13  
12  
15  
1  
3  
7  
9  
15

611188

0700

52.5  
12

87

1231 65.24

53.63

Hub  
64188  
89 46

sly end  
1415' 4' RCP  
no headwall

58.5  
60  
10  
53.5  
65  
4  
54.72  
11  
10  
82  
45  
13

65.94



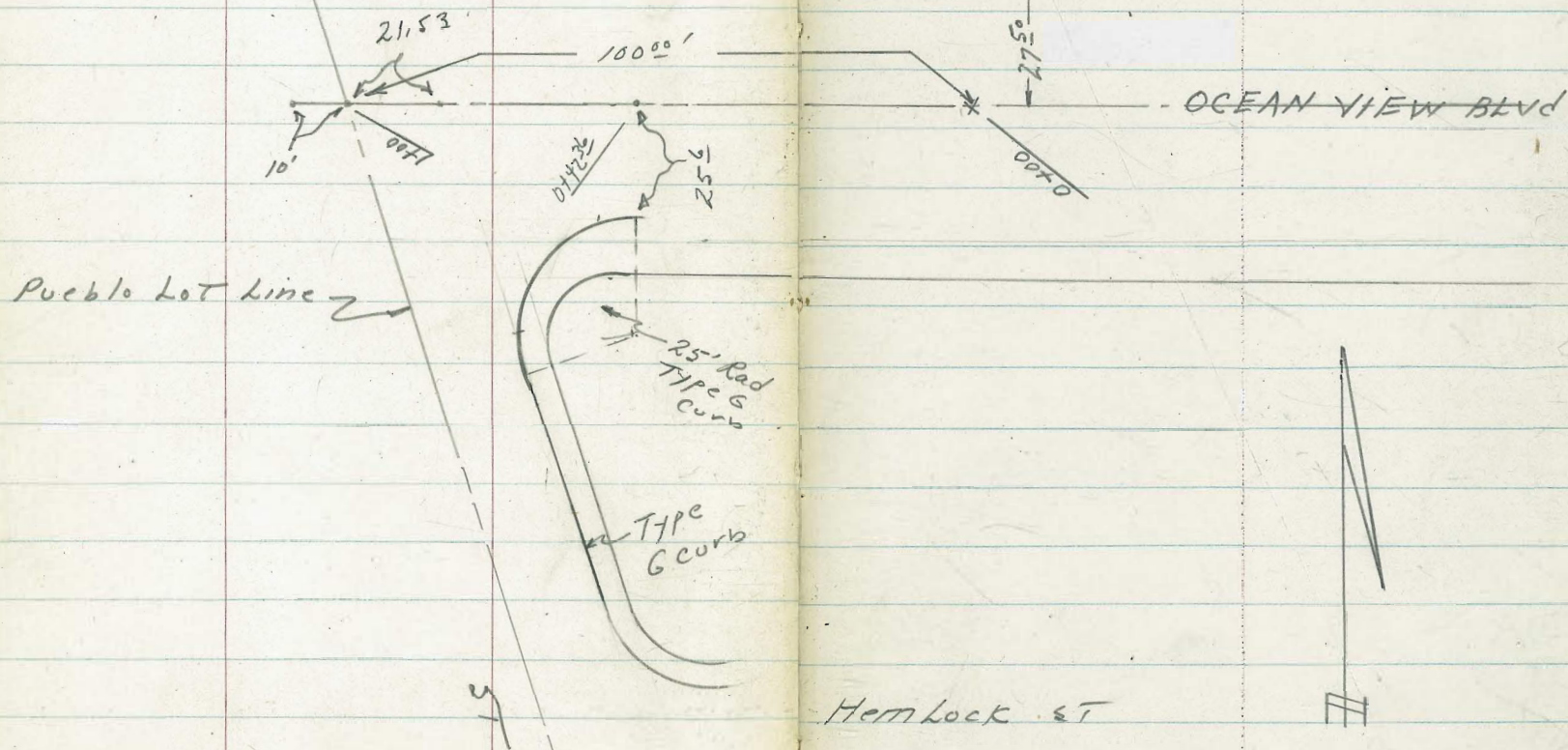
BOUNDARY

X-sec of intersection  
of Oceanview + Boundary  
Sts To Show SELY COR  
See Page 59 for  
Levels.

W.O. # 21399

C. Allen, D. Sisson  
C. Powell, R. Parks  
Ret. T.P. Sheet 358

AVENUE  
HOLM  
C





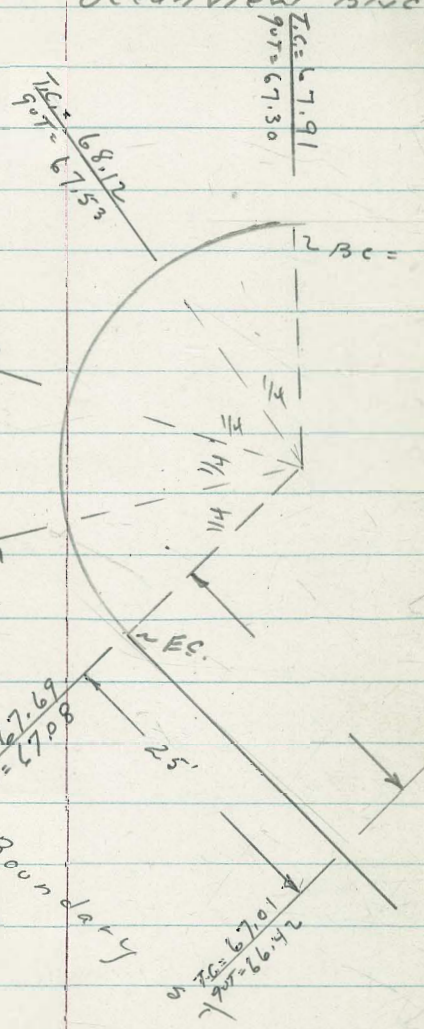
Ocean View Blvd

Levels on SEly  
Curb (Type 6) at

Ocean View +  
Boundary.

R = 25'  
L = 46.6

divided into  
4 parts of  
11' each



BM = NWly 7' L + T Ho<sup>2</sup> + Ocean View Blvd  
elevation = 82.18

Direct elev Rod - all elevs are True

Cont on page 60



X-sec of Intersection of  
Ocean View Blvd + Boundary  
See Sketch Page 58

LT = Sly

Bld

RT = Nly

60

0+60-19<sup>±</sup> LT =  $\frac{1}{2}$  Fire Hydrant

0+50

68 <sup>06</sup>	67 <sup>46</sup>	68 <sup>00</sup>	67 <sup>00</sup>	67 <sup>24</sup>	67 <sup>34</sup>	67 <sup>23</sup>
27 <sup>±</sup>	27 <sup>±</sup>	19	17	10		10
T.C. 90T				edge		edge
				conc		conc

+ ely end of curb (Type 6)

0+42<sup>36</sup> 25<sup>E</sup> LT = B.C. 25' Radius Return

67 <sup>91</sup>	67 <sup>30</sup>	67 <sup>00</sup>	66 <sup>99</sup>	67 <sup>05</sup>	67 <sup>08</sup>	66 <sup>99</sup>
25 <sup>±</sup>	25 <sup>±</sup>	19	16	10		10
Top 60T				edge		edge
	conc			conc.		conc Pave

0+25

66 <sup>55</sup>	67 <sup>55</sup>	66 <sup>99</sup>	66 <sup>11</sup>	66 <sup>63</sup>	66 <sup>71</sup>	66 <sup>61</sup>
40	29	19	17	10		10
				edge		edge
				Pave		Pave (conc)
				conc		
				66 <sup>00</sup>		
				40		

Base Line + P.L. Lot Line - Ely of Boundary

0+00 = 100' Ely of LT on intersection of

66 <sup>55</sup>	66 <sup>00</sup>	65 <sup>33</sup>	65 <sup>98</sup>	66 <sup>13</sup>	66 <sup>08</sup>
28	20	18	10 <sup>00</sup>	conc	10 <sup>00</sup>
			Edge Conc		Edge Conc

Base Line is 27<sup>E</sup> Sly of Nly Line

B. Ocean View Blvd +  $\frac{1}{2}$  of Conc Pave

BM = NWly T L + T 40<sup>T</sup> + Ocean View - 82.18

DIRECT elev Rod



Intersection Oceanview +  
Boundary cont

LT = 51y B.L. RT = N/4. 61

Levels checked back to starting

B.M.

1+00 = L & T. P.L. Line + Base Line

68 <sup>±</sup> 50	68 <sup>±</sup> 25	68 <sup>±</sup> 10 edge Pave	68 <sup>±</sup> 06 <sup>±</sup>	68 <sup>±</sup> 10 edge Conc Pave
-----------------------	-----------------------	---------------------------------------	------------------------------------	--

Taken on Skew along curb

0+82<sup>±</sup> = ± = Curb line Boundary Site

67 <sup>±</sup> 59 <sup>±</sup> Tic	67 <sup>±</sup> 59 <sup>±</sup> 90T	68 <sup>±</sup> 10 <sup>±</sup>	68 <sup>±</sup>	68 <sup>±</sup> 10 <sup>±</sup> edge Conc Pave
---	---	------------------------------------	-----------------	---

67 <sup>±</sup> 65	68 <sup>±</sup> 50
-----------------------	-----------------------

0+79-30° LT = 4" x 4" Stop Sign

0+75

69 <sup>±</sup> 40	69 <sup>±</sup> 31	68 <sup>±</sup> 22	67 <sup>±</sup> 10 edge Conc Pave	67 <sup>±</sup> 10 edge Conc Pave
-----------------------	-----------------------	-----------------------	--	--

0+70-38° LT = 36" Palm tree

0+69-20° LT = 12" Power pole # P. 70037

Direct elev. Rod.























































73









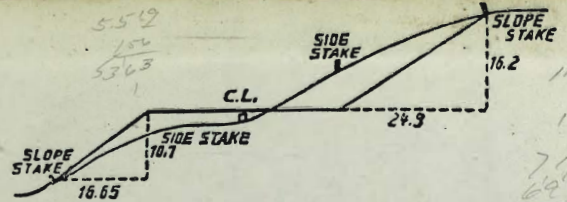












**DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.**  
**SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.**

	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	71.20	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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