EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

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

1857

INDEXED

to page # 70

This Field Book is manufactured of a High Grade 50% Rag Paper having a WATER RESISTING SURFACE, and is sewed with Bing Special Enamel Waterproof thread.

Made in U. S. A.

Index

"Prop. Sewer"
La Jolla Shores

5-25-28-48

W.O. 313 39 7.0.

Paseo del Ocaso

Ext. 6" Sewer

Ext 8" Sewer

Prop Sewer

Park

Prop. Pumping Plant

De La Playa

Mata

curb

El Paseo Grande

El Paseo Grande

De La Ribera

Ext. Sewer

Green = ± New Prop. Sewer

± Prop. Sewer

Playa

Calle de La Playa

De La

Curb

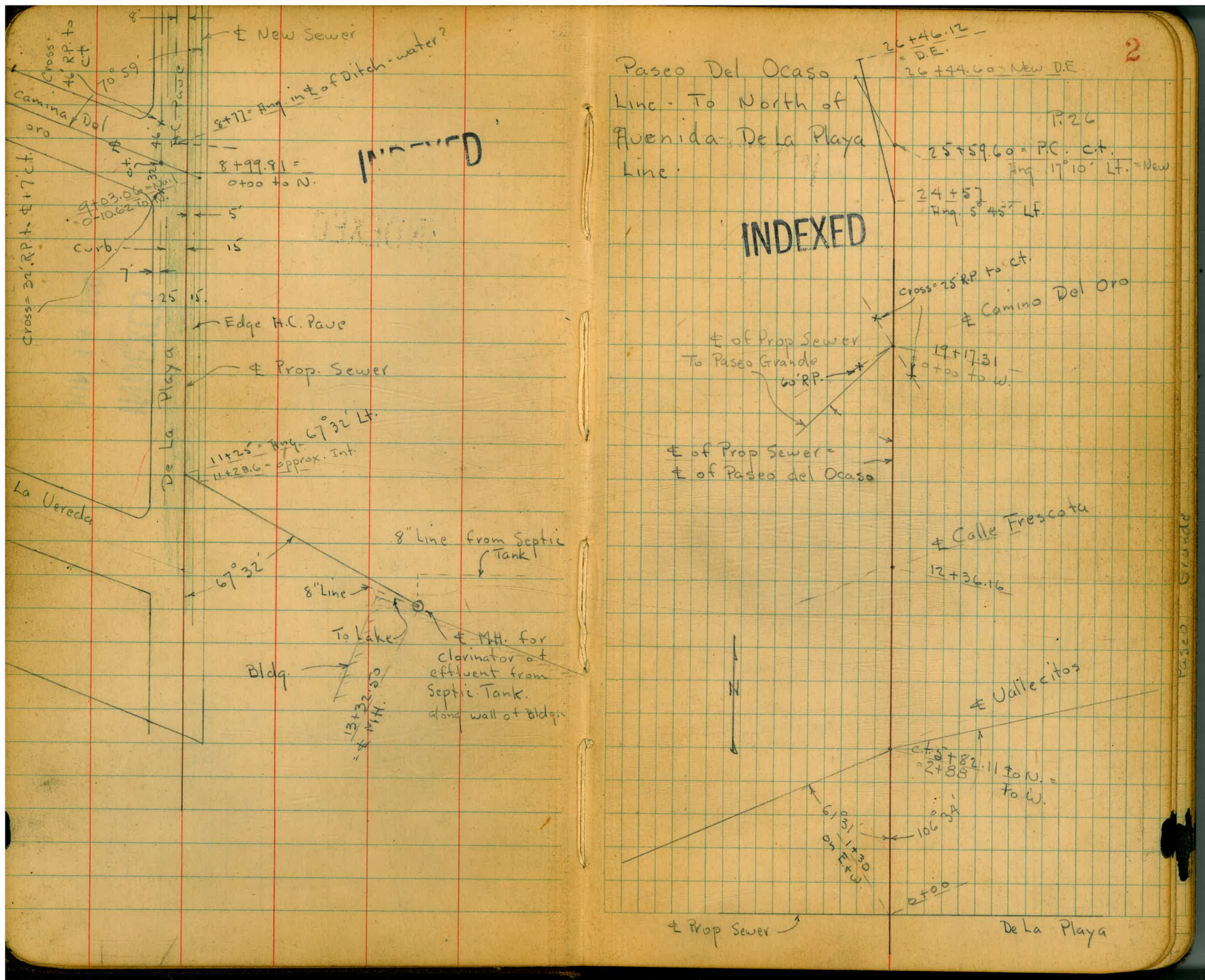
R.C. Pave

Box + Grate

12" R.C. Pipe 1.5 Cover

± = Bog, ± Ditch in Pave contents unknown - water?

INDEXED
JUN 18 1948

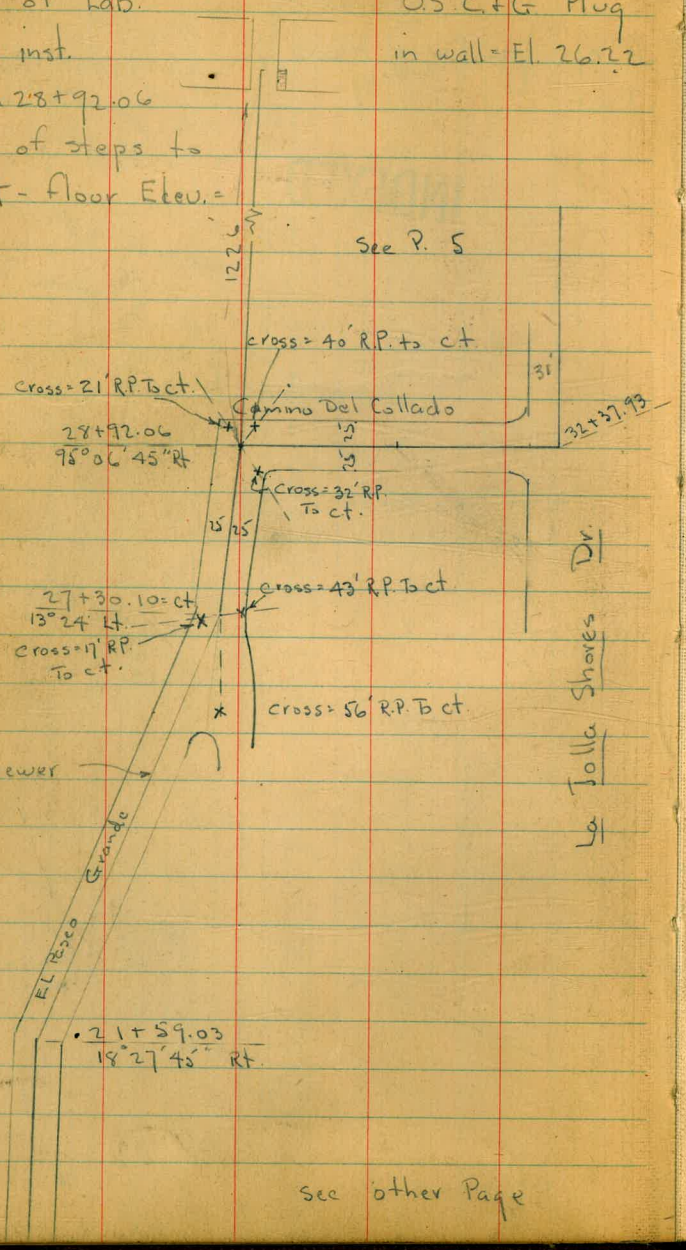

Paseo Del Ocaso
Line - To North of Avenida De La Playa Line.
26+46.12 = P.C. = D.E.
26+44.60 = New D.E.
P.C.
25+59.60 = P.C. C.t.
Ang. 17° 10' Lt. = New
24+57
Ang. 5° 45' Lt.
INDEXED
Cross = 25' R.P. to C.t.
℄ Camino Del Oro
℄ of Prop Sewer
To Paseo Grande
60' R.P.
19+17.31
0+00 to W.
℄ of Prop Sewer = ℄ of Paseo del Ocaso
℄ Calle Frescota
12+36.16
N
℄ Vallecitos
C.t. = 2+88
2+82.11 to N. = to W.
6,30 3,1
0,3 1+30 Fac
106
0+00
℄ Prop Sewer
De La Playa
Paseo Grande
8" New Sewer
Cross: 32' R.P. to C.t.
70° 59'
Camino Del Oro
8+77 = Ang. in ℄ of Ditch - water?
8+99.81 = 0+00 to N.
9+03.0 to P.C. = 0+10.62 to
curb
5'
15'
7'
25'
18'
Edge H.C. Pave
℄ Prop. Sewer
Cross = 32' R.P. to C.t.
℄ De La Playa
11+25 = Ang. 67° 32' Lt.
11+28.6 = Approx. Int.
La Vereda
67° 32'
8" Line from Septic Tank
8" Line
To Lake
℄ Mtl. for Clarinator at effluent from Septic Tank. along wall of Bldg.
Bldg.
13+32.50 = ℄ Mtl.

INDEXED

Stadia Line to Basement of Lab. at Scripps Inst. 1226' from 28+92.06 To Bottom of steps to Basement - floor Elev. = 18.80

U.S C+G Plug in wall = El. 26.22

See P. 5



See other Page

Cross in cb. = 16.5 R.P. at 90° To ct.

See other Page

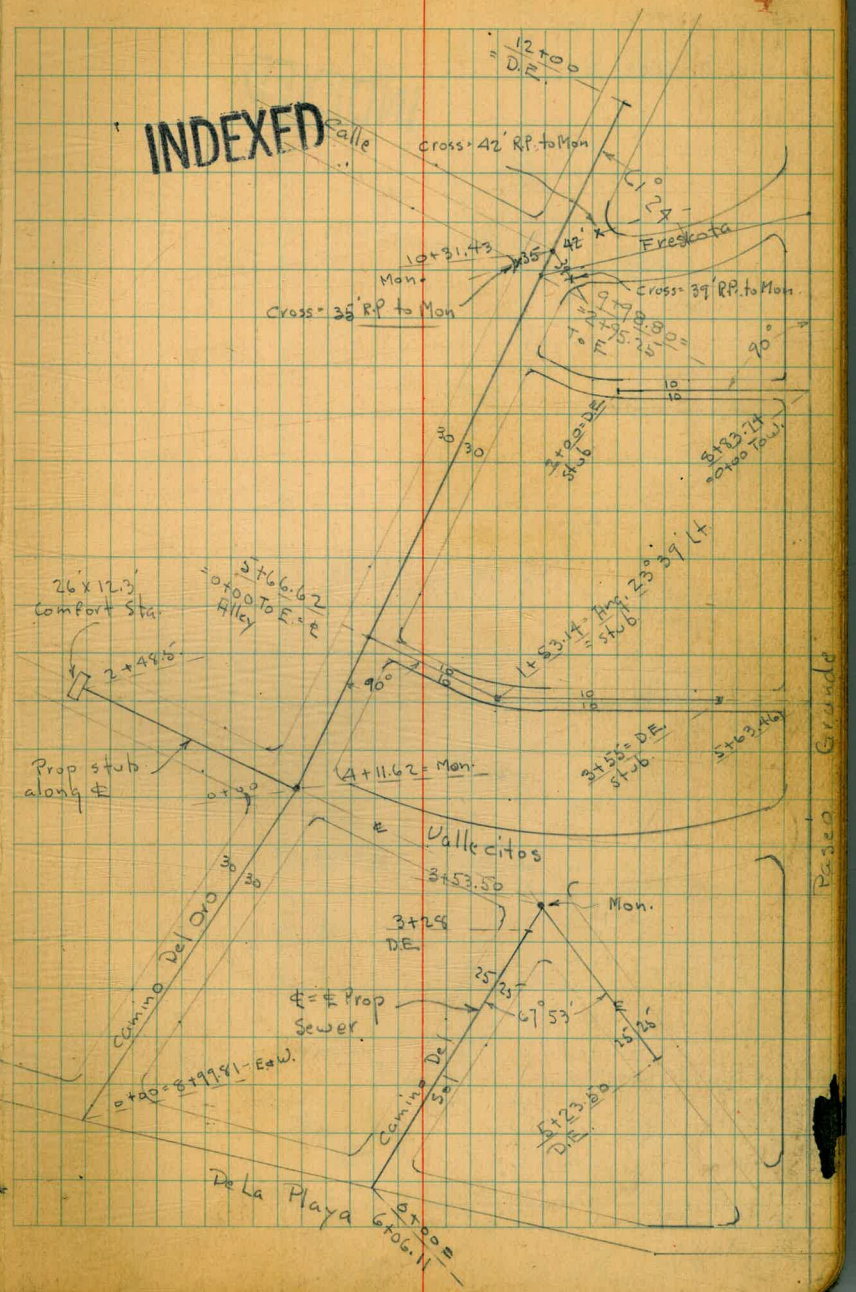
3

Prop. Sewer in ℄ of El Paseo Grande North of Fluenida De La Playa Line

21+59.03 = c.t.
Hng. 18° 27' 45" Rt.
Cross = 38' R.P. to ct.
56° 32' 30"
± Prop. Sewer Del Oro P. 24
± Camino Del Oro To E.
17+42 Line to Del Ocaso = 3+17.75 To E.
cross = 35' R.P. to Mon at 90°
Cross = 29' R.P. to Mon.
16+86.93 = Mon.

INDEXED

Cross = 57' R.P. to Mon
± Calle Frescota To E.
Cross = 33' R.P. to Mon
10+94.40 = Mon
± 1 1/2" Gas
4 to W.
0+18 to W.
85° 15' 30"
± Prop. Sewer Calle Frescota
8+83.74 = ± Alley to W.
see P. 4
5+63.46 = ± Alley to W.
Cross = 34' R.P. to Mon
± Calle Cristobal
± Prop. Sewer
4+38.41 = To N. = 5+89.52 To E
7+41.22 = Mon.
Cross = 34' R.P. to Mon
Cross = 45' R.P. To Mon
± Prop. Sewer = ℄ of El Paseo Grande
0+00 to N.
± Prop. Sewer ℄ De La Playa
El Paseo Grande
N


Calle
Cross - 42' RP. to Mon
Freeseta
10+31.43
Mon.
Cross - 38' RP to Mon
Cross - 39' RP. to Mon.
90°
3+02 = DE
Stub
3+93.74
= 0+00 Tan.
26' x 12.3'
Comfort Sta.
2+48.6
Prop stub
along ℄
0+00
3+66.62
= 0+00 To E. = ℄
Alley
Lt 53.14 - Brng. 23° 39' Lt
= Stub
4+11.62 = Mon.
3+55 = DE
Stub
3+63.46
Valle citos
3+53.50
Mon.
3+25
DE
Camino Del Oro
℄ = ℄ Prop
Sewer
0+00 = 8+99.81 - E&W.
67° 53'
25'
25'
Camino Del Sol
5+23.80
DE
De La Playa
6+06.11
0+00
Raised Grade

Camino Del Collado

Prop Sewer along La Jolla Shores Dr.

27+35 = P.E. = stub.

Mon. — 31' — 19+79.19 — ℄ Camino Del Oro

curb line

N

Mon. — 31' — 12+98.13 — ℄ Calle Frescota

W.L. La Jolla Shores Dr.

20'

Mon. — 31' — 6+64 = 0+00 to W. — 6+44.00 — ℄ Valtecitos

℄ Prop. Sewer

℄ Prop. Sewer — 30 — 6' — 26'

℄ 4" Water line — 5'

0+00 = 4+16.30 on line to W.

℄ De La Playa — 10' — Ct. — 31'

40+65 = P.E. stub.

31'

39+01.37 = stub. Hng. 32°37' Rt.

Camino De La Colina — 1" Pipe — 34+87.93

31'

Camino Del Collado — ℄ 4" Water — 32+37.93 - Hng 90° Lt.

Ct. — 4' — 4' — 4" Gate — 6 x 8' Gate Box — ℄ 6" Water

27+35 = P.E. = stub.

Levels along Prop. Sewer on De La Playa - from 0+00 by Prop. Pumping Plant at Mata Park - West to Ocean.

B.M.	3.57	7.08		3.51	B.P. in Sea wall Av. De La Playa c.t. ℄ La Playa & De La Plata.
T.P.	7.37	11.61	2.78	4.24	
T.P.	1.36	9.93	3.04.	8.57	= Spike = 0+00 at Park
℄ Profile - on H.C. Pave					
0+00 = opp. ℄ Mata Park			1.36	857	on spike = ℄
9.7 Rt = gut			1.97	7.96	
" " = Top cb.			1.37	856	
0+50			2.59	7.34	
1+00			3.58	6.35	
1+34.98 = ℄ Paseo Grande 0+00 to N.			3.92	6.01	
1+70			4.19	5.74	
2+00			4.46	5.47	
2+33. - ℄			4.66	5.27	
9.6 Rt. = closest to cb.			5.38	3.55	gut
			4.79	5.14	Top
2+75.33 = Hng. 12° 35' Rt. =				Nail	
℄			4.95	4,98	
3+00			5.15	4.78	
+50			5.37	4.56	
4+00 - ℄			5.62	4.31	
15' Rt - cb.			6.26	3.67	gut.
			5.68	4.25	Top.

9.93

4+40.98 - ℄ Calle de La Plata - = 0+00 to S.			on Pave
℄ = Nail		5.93	4.00
5+00		6.29	3.64
+50		6.49	3.44
6+06.11 = ℄ Camino Del Sol = 0+00 to N.			
℄		6.95	2.98
T.P. 3.22	6.20	6.95	2.98
6+50		3.40	2.8
7+00		3.68	2.52
+50		4.03	2.17
8+00 - ℄		4.25	1.95
15' Rt = cb.		4.77	1.43 gut
		4.18	2.02 Top
5' Lt. = edge H.C. Pave		4.22	1.98
8+50		4.52	168
8+99.81 = ℄ Camino Del Oro = 0+00 to N.			
℄ = Nail		4.80	1.40
9+50		5.04	1.16
10+00		5.30	.9
10+50		5.56	.64
11+00		5.80	.4
15.2' Rt. = cb.		6.37	-.17 gut.
		5.73	.47 Top
4.8' Lt. = edge H.C. Pave		5.76	.44
T.P. = B.M.	2.61 6.12	2.70	3.50 - 3.87

6.12

11+25 = Hng. 67° 32' Lt. = Line to ℄ MH.
for Clorinator - Near Cor. of New Bldg.
Entire Sewerage of All the buildings
could be picked up Here - or along line to E.

11+25 = ℄ A.C. Pave	5.80	.32	
11+34.6 = ℄ on edge of	5.81	.31	
+50	5.2	.9	
12+00	5.0	1.1	
+50	4.7	1.2	
13+00	4.6	1.5	
+32.50 = ℄ M.H.	4.1	2.0	- dirt
8" pipe from E.	8.13	-2.01	= Flow line
Top M.H. = end	3.84	2.28	

7

Levels - Prop. Sewer along ℄ Camina Del Oro - La Playa - North - P. 4

INDEXED

0+00 = 8+99.81 on La Playa Line

Both ways Nail = ℄	6.32	7.72	1.40 - P.6.
0+14 = gutter.		6.71	1.01
0+24.3 = edge of Pave		6.49	1.23
0+50 - on dirt		6.1	1.6
1+00 - ℄		6.2	1.5
15' Lt. = gut.		6.8	.9
" = Top cb = Typical all way		5.75	1.97
15' Rt. - gut		6.6	1.1
" " = Top		5.79	1.93
1+50		6.0	1.7
2+00		5.7	2.0
+50		5.5	2.2
3+00		5.3	2.4
+50		5.2	2.5
4+00		4.9	2.8
0+00 = Stub to W.			
4+11.62 = ℄ Vallecitos		5.0	2.7
Set B.M. on S.W. F.H.		2.61	5.11
4+50		4.8	2.9
5+00		4.8	2.9
+50		4.6	3.1

7.72

5+66.62 = ℄ Alley on Rt. - Prod. = 0+00 to E.

℄			4.6	3.1
6+00			4.5	3.2
+50			4.7	3.0
7+00			4.8	2.9
+50			4.8	2.9
8+00			4.9	2.8
T.P.	4.88	7.64	4.96	2.76
8+50			5.1	2.5
9+00			5.1	2.5
+50			5.1	2.5
10+00			5.0	2.6
10+31.43 = ℄ Calle Frescota			5.1	2.5
+50			5.2	2.4
11+00			5.3	2.3
+50			5.2	2.4
12+00 = D.E. - ℄			5.4	2.2
15' Lt. -		gut.	6.0	1.6
		Top cb.	5.36	2.28
15' Rt. -		gut.	6.0	1.6
		Top cb.	5.26	2.38
Paseo Grande + Frescota				
Set. BM. - Top S.E. F.H.			0.19	7.45

B.M. - P. 7 3.35 8.46 5.11
F.H.

P.4

8

Levels - Prop. Sewer along ℄ of 20' Alley in Block 34 - 0+00 = 5+66.62 - Del Oro line

0+00	5.3	3.2
+15 = gutter	5.4	3.1
+30 = E.L. Camino Del Oro	4.6	3.9
9.8' Lt. = gut.	5.1	3.4
" " = Top cb. - end Ret.	4.91	3.55
9.8 Rt = gut.	5.2	3.3
" " Top cb.	5.12	3.34
0+50	4.5	4.0
1+00	5.1	3.4
1+53.14 = Intg. 23°39' Lt.	5.04	3.42 on stub
2+00	4.8	3.7
+50	4.8	3.7
3+00	4.6	3.9
3+55 = D.E.	3.09	5.37 on stub

8.46 - P. 8

Levels along Prop. stub sewer (west) along ℄ of Vallecitos to Comfort Sta. - P. 4

0+00 = 4+11.6± - on Camino Del Oro line		
+50	5.9	2.6
1+00	6.0	2.5
+50	6.1	2.4
2+00	6.2	2.3
2+48.5 = ℄ of E. side of 26' by 12.3 wide Bldg. - Comfort sta. couldn't find pipes outside of Bldg.		
℄ along Bldg.	6.0	2.5
floor elev.	6.30	2.2

Levels along Prop. Sewer along ℄ of Camino Del Sol - 0+00 = 6+06.11 on La Playa (Line)

B.M. = ℄ Nail 593 (0+00) 8.91

6+06.11 - P. 6

			2.98
0+16 = gutter = Pave		6.38	2.53
0+28 = edge of Pave		5.86	3.05
+50 = dirt		5.8	3.1
1+00		5.7	3.2
+50		5.5	3.4
2+00		5.4	3.5
15' Lt =	gut.	6.1	2.8
	Top cb	5.42	3.49
15' Rt. =	gut.	5.9	3.0
	Top cb	5.35	3.56
2+11 - 11.6 Lt. =	Lowest Pipe on New units	7.89	1.02 F.L. Pipe
2+50		5.3	3.6
3+00		5.2	3.7
3+28 = D.E.		5.1	3.8

Levels on Prop. Short stub in De La Ribera from 0+00 = 1+34.98 on La Playa Line = ℄ EL Paseco Grande - See P. 1

See P. 9

0+00 = Nail	2.89	6.02	- P. 6
0+13 = gutter. = Pave	3.52	4.39	
+50	3.35	5.56	
1+00	3.98	4.93	
1+17.5 = end of Pave	4.17	4.74	
+50	4.2	4.7	
1+90 = D.E.	4.42	4.59	= on Stub.

Levels on Prop. Sewer along ℄ of Paseco Grande N. of La Playa

0+00 = 1+34.98 - on La Playa Line = 6.01 - P. 6

	5.01	11.02
0+00 = on Pave	5.01	6.01
0+10 = gutter	5.55	5.47
+50	5.53	5.49
1+00	5.49	5.53
1+06 = end P.C. Pave Beg. oil Pave - Fair Cond.	5.50	5.52
1+50	5.4	5.6
2+00	5.2	5.8
+50	5.1	5.9
3+00 - ℄	5.1	5.9
15' Rt. = gut.	5.3	5.7
" " Top cb.	4.19	6.83
90' Rt = Vac. Lot.	3.5	7.5
15' Lt. = gut	5.8	5.2
" " = Top cb.	5.18	5.84
100' Lt. = Low Vac. Lot.	6.4	4.6
3+50	5.0	6.0
4+00	4.9	6.1
See 152-1 - P. 72 for loc. of Drain.		
4+41.22 = ℄ Vallecitos	5.0	6.0
5+00	4.6	6.4
+50	4.5	6.5

	11.02			
6+00			4.4	6.6
+50			4.2	6.8
7+00			4.3	6.7
100' Lt. = Vac. Lot			6.0	5.0
100' Rt. = Vac Lot.			1.3	9.7
7+50			4.7	6.3
T.P.	2.30	8.74	4.58	6.44
8+00			2.8	5.9
+50			3.4	5.3
8+83.74 = 0+00 to W. = ℄ 20' Alley.				
℄			3.60	5.1
9+00			3.7	5.0
+50			4.1	4.6
10+00			4.4	4.3
+50			4.6	4.1
check Top F.H.			1.31	7.43 - P. 8
10+94.40 = ℄ Calle Fresco to E.			4.8	3.9
11+50			5.0	3.7
12+00			5.5	3.2
+50			5.8	2.9
13+00			6.0	2.7
100' Lt. = Vac. Lot			6.2	2.5
13+50			6.2	2.5
14+00			6.3	2.4
T.P.	5.05	7.47	6.32	2.42

	7.47			
14+50			4.9	2.6
15+00			5.0	2.5
100' Rt. Vac. Lot.			2.2	5.3
15+50			5.3	2.2
16+00			5.6	1.9
+50			5.5	2.0
16+86.93 = ℄ Camino Del Oro to W.			5.4	2.1
17+00			5.4	2.1
+50			5.2	2.3
18+00			5.0	2.5
+50			5.0	2.5
19+00			4.7	2.8
+50			4.3	3.2
20+00			4.0	3.5
+50			3.2	4.3
21+00			2.3	5.2
T.P.	12.67	17.84	2.30	5.17
21+36.4 = end oil + Beg. AC Pavel			11.63	6.21
21+59.03 = Hng. 18°27'45" Rt			10.84	7.00 on c.t.
21+70 - 43' Lt. = ℄ House			9.90	7.9 = floor
22+00 on pave			9.40	8.4
+50			7.69	10.15
23+00			5.89	11.95
15.4' Lt. = gut			6.44	11.44
" " = Top cb			6.02	11.82

Paseo Grande

23+00 - Cont.				
100' - Lt. - Vac. Lot.		8.7	9.1	
14.6' Rt. - gut.		6.05	11.79	
" " Top cb.		5.55	12.29	
50' Rt. - Vac. Lot.		4.0	13.8	
23+50		4.20	13.6	
24+00		2.44	15.40	
+50		0.72	17.12	
T.P.	12.87 30.55	0.16	17.68	
25+00		11.66	18.89	
+50		10.00	20.55	
26+00		8.26	22.29	
75' Lt. - Vac. Lot.		10.9	29.7	
50' Rt. - Vac. Lot		6.5	24.1	
26+50		6.49	24.06	
27+00		4.86	25.69	
Set B.M. - Top Hyd.	Paseo Del Ocaso	3.30	27.25	
27+30.10 = Hng. 13°24' Lt.		3.77	26.78	on ct
+50		3.13	27.42	
28+00		2.19	28.36	
+50		1.12	29.43	
28+92.06 = Hng. 95°06'45" Rt.		0.27	30.28	on ct.
T.P.	12.59 42.87	0.27	30.28	
29+50		10.33	32.54	
30+00 - ℄		8.24	34.63	
14.5 Lt. -	gut.	8.66	34.21	
" " -	Top	8.18	34.69	

30+00 - Cont.	42.87			
75 Lt. - Vac. Lot.		8.8	34.1	
15.4 Rt. - gut.		8.69	34.18	
" " = Top cb.		8.19	34.68	
75' Rt. - Vac. Lot		9.1	33.8	
30+50		6.42	36.45	
31+00		4.40	38.5	
31+50		2.48	40.39	
32+00		0.71	42.16	
32+06.93 = W.L. La Jolla Shores Blvd. = ct.		8.8 Rt. - ℄ 6" Water Gate		
T.P. on ct	5.52 47.86	0.53.	42.34	
32+37 - 6½ Rt. = N.W. Cor. 6'x8' Water Gate Box.				
8.9 Rt. - ℄ 6" Water pipe - E. & W.				
8.9 Rt. - Top 6" pipe		7.91	39.95	
Conc. bottom of Box		11.09	36.77	
32+37.93 = Hng. 90° Lt. = end ℄ on nail		4.64	43.22	
Set B.M. on C+G Plug on S.W. Cor.		4.92	42.94	

U.S.G.S.

INDEXED

6-7-48

Levels on Existing Sewer along La Playa See Page -1 for location

M.H. # 1 = E. of Paseo Del Ocaso

	9.09	17.66	8.57 - 0+00 spike
Top Rim		2.95	14.71
Flow line - 6" sewer		7.51	10.15
M.H. # 2 = ℄ Paseo Del Ocaso & La Playa			
Top		6.06	11.6
F.L. - 6" To E. 8" To W.		10.53	7.13
T.P.	1.16	9.73	9.09 8.57
M.H. # 3 = ℄ FL Paseo Grande			
Top		3.39	6.34
F.L. - 8"		7.92	1.81
M.H. # 4 = W. of Paseo Grande - 13425			
		4.62	5.11
		9.85	.48
M.H. # 5 = ℄ Calle De La Plata			
Top		5.55	4.18
F.L. - 8" Line		10.11	-.38

Line Continues on to W. - Loc. unknown

-70.

Levels on Prop. Sewer along ℄ of De La Playa - from 0+00 to E.

0+00 = By Pump sta.

13

	10.59	19.07	8.87 = spike 0+00
0+00 = spike - on Pave A.C.		10.80	8.57
+50		9.42	9.65
1+00		8.28	10.82
1+30 = ℄ 0+00 to N.		7.73	11.34
+50		7.47	11.60
2+00		6.54	12.53
+50		5.59	13.48
3+00 = ℄		4.57	14.5
9.7 Lt. =		5.15	13.92
" "	Top cb	4.82	14.55
+50		3.32	15.75
+80		2.64	16.43
4+06.30 = 0+00 to N.		line	31' E. of EL La Jolla Shores Blvd.
℄ = Nail		1.66	17.41

INDEXED

Levels on Prop. Sewer along ℄ of Paseo Del Ocaso - 0+00 = 1+30 on La Playa Line to E. - H.C. Pave allway = Nail - 1+30 = 3.63 14.97 11.34

0+00	on Pave	3.63	11.34	
+10 =	gutter	4.18	10.79	
+50		3.78	11.19	
1+00		3.93	11.04	
+50		4.20	10.77	
2+00		4.48	10.49	
+50		4.62	10.35	
55.3' Lt. =	Low House	5.37	9.60	floor
3+00		4.85	10.12	
+50		5.10	9.87	
4+00 - ℄		5.30	9.67	
15' Lt. -	gut.	6.10	8.87	
	Top cb.	5.41	9.56	
15' Rt.	gut.	5.39	9.58	
	Top cb.	4.87	10.1	
4+15 - 49' Lt. = ℄	New House	5.16	9.81	floor
4+50		5.60	9.37	
75' Rt. =	Vac. Lot	4.3	10.7	
87' Lt. =	Plumbing outlet 4" San. - New House	7.05	7.92	
5+00		5.86	9.11	
+50		6.07	8.9	
5+82.1 = ℄	Vallecitos	5.93	9.04	c.t.

14.97

6+00		5.97	9.0	
+50		5.08	9.91	
7+00 = T.P.	8.91 19.57	4.31	10.66	= Nail
7+50		8.16	11.41	
44' Lt. =	House	6.99	12.58	floor
8+00		7.43	12.14	
+50 - ℄		6.72	12.85	
100' Lt. =	Vac. Lot.	8.2	11.4	
9+00		6.06	13.51	
+50 = ℄		5.40	14.17	
49' Lt. =	House	4.86	14.71	floor
10+00		4.90	14.67	
+50		4.63	14.94	
11+00 - ℄		4.37	15.20	
100' Lt. =	Vac Lot	6.4	13.2	
11+50		4.06	15.51	
12+00		4.12	15.45	
12+36.16 = ℄	Calle Frescota	4.02	15.55	c.t.
12+50		4.07	15.50	
13+00		4.32	15.25	
+50		4.39	15.18	
14+00 = T.P.	3.42 18.31	4.68	14.89	
14+10.46' Lt. =	House	3.20	15.11	floor
14+50 - ℄		3.61	14.70	
100' Lt. =	Vac. Lot	8.1	10.21	

Everything on Rt. is High

Paseo Del

18.31

15+00 - ℄	3.75	14.56
100 Lt. = basement floor		5.98 = El. floor (Conc.)
71' Lt. = House	3.50	14,81 floor.
15+50	4.01	14.30
16+00	4.25	14.06
16+25 - 64' Lt. = House	8.5	9,81
		10.00 = ground. Grar. floor
"	6.85	11,46 floor
16+50	4.41	13,90
ck 17+00	4.58	13,73
+50 - ℄	4.82	13,49
100' Lt. = Vac. Lot.	10.1	8.2
18+00	5.05	13.26
+50	5.30	13.01
19+00	5.99	12.32
19+17.31 = ℄ Del Oro Camino	5.62	12,69 c.t.
T.P. 10.60 23.29	5.62	12.69
19+32 = gutter	10.73	12,56
+50	10.43	12,86
100' Lt. = Vac. Lot.	15.1	8.2
20+00	9.68	13.61
+50	8.75	14,54
21+00 - ℄	7.94	15.35
100' Lt. = Vac. Lot	11.7	11.6
21+50	6.99	16,30
22+00	5.94	17.35
22+50 - ℄	4.67	18.62
100' Lt. = Vac. Lot.	7.9	15,4

Ocaso

INDEXED 23.29

23+00 - ℄	3.38	19.91
15.4' Lt. = gut.	3.83	19,46
" " Top cb.	3.38	1991
54' Lt. = House	3.63	19,66
14.6' Rt. = = gut.	3.53	19,76
Top cb.	3.04	20.25
23+50	2.15	21,14
24+00	0.81	22,48
T.P. 8.46 30.94	0.81	22.48 = Nail
24+50	7.16	2378
75' Lt. = Vac. Lot	9.4	21.6
24+57 = Intg. 5° 45' Lt.	6.97	23.97 on Nail
check B.M. - F.H. - P. 12	3.69	27.25 - 27.25
25+00	5.98	24.96
25+50	5.17	25.77
6.2' Lt. = gut.	5.38	25.59
" " ℄ Top cb.	4.92	26,02
25+70 = closest to cb.	4.91	26,03
4.8' Lt. = gut	5.09	25.85
Top cb.	4.67	26,27
26+00 -	4.60	26,34
26+46.12 = D.E. = on Pave	3.82	27,12
5.0' Rt = cb. - 90° to cb.		
gut.	3.61	27,33
Top cb.	2.98	26,96

Levels on La Jolla Shores Dr.

0+00 = 4+06.30 on La Playa Line			
0+00 = BM. 0.68 18.09		17.41	Nail
0+45 = edge of A.C. Pave	1.5±	16.6	
1+00 = on Dirt	2.9	15.2	
1+50	3.6	14.5	
2+00 - ±	3.8	14.3	
100' Lt. = Vac. Lot	4.4	13.7	
2+50	4.1	14.0	
3+00	4.3	13.8	
11' Lt. = gut.	4.9	13.2	
" " Top cb.	4.18	13.91	
29.9 Rt. = edge 18' Conc. Pave	3.07	14.92	
3+50	4.8	13.3	
3+65 - ±	5.0	13.1	
76' Lt. = House	3.10	14.99	floor
4+00	5.2	12.9	
+50	5.6	12.5	
5+00 - ±	6.0	12.1	
29.9' Rt. = edge Pave	4.58	13.41	
48' Lt. = House	5.29	13.80	floor
5+50	6.3	11.8	
6+00	6.7	11.4	
6+44 = ± Vallecitos	6.7	11.4	
7+00 - ±	6.2	11.9	
29.9' Rt. = edge Pave	5.05	13.04	

18.09

7+50	5.6	12.5
75' Lt. = Vac. Lot	5.7	12.4
8+00	5.1	13.0
T.P. 13.01 25.93	5.17	12.92
8+50	12.6	13.3
9+00	11.8	14.1
29.8' Rt. = edge Pave	11.23	14.70
9+50	10.9	15.0
10+00	9.8	16.1
10+50	8.6	17.3
50' Lt. = House	7.30	18.63 floor
11+00	7.1	18.8
29.8' Rt. = edge Pave	6.36	19.57
11+50	5.9	20.0
12+00	4.8	21.1
62' Lt. = New House	6.65	19.28 F.L. outlet.
12+50	3.8	22.1
12+98.13 = ± Calle Frescota	3.0	22.9
29.8' Rt. = edge Pave	1.38	24.55
13+50	2.4	23.5
13+60 - 51' Lt. = House	1.45	24.08 floor
14+00	1.8	24.1
11.2 Lt. = gut.	2.4	23.5
" " Top cb.	1.30	24.63
100' Lt. = Vac. Lot	2.4	23.5

	28.93			
14+50		1.4	24.5	
T.P. 7.91	33.06	0.78	25.15	
15+00 - ℄		8.0	25.1	
29.8' Rt. = edge Pave		6.82	26.24	
15+50		7.6	25.5	
15+85 - 114' Lt. = New House		10.20	22.86	on F.L. outlet
16+00		7.2	25.9	
+50		6.8	26.3	
17+00 - ℄		6.3	26.8	
29.8' Rt. = edge Pave		4.88	28.18	
17+50		5.9	27.2	
17+80 - 79' Lt. = New House		8.00	25.06	F.L. outlet
18+00		5.6	27.5	
18+50		5.3	27.8	
19+00 - ℄		5.4	27.7	
30' Rt. = edge Pave		3.70	29.36	
11.4' Lt. = gut.		6.0	27.1	
" " Top cb.		5.02	28.04	
75' Lt. = Vac. Lot		7.3	25.8	
19+50		5.8	27.3	
19+79.19 = ℄ Camino Del Oro		5.9	27.2	
20+00		6.0	27.1	
20+50		5.8	27.3	
21+00		5.2	27.9	
30' Rt. = edge Pave		3.94	29.12	
100' Lt. = Vac. Lot.		10.6	22.5	

	33.06			
21+50		4.7	28.4	
22+00		4.1	29.0	
62' Lt. = House		5.00	28.06	floor
22+50		3.3	29.8	
T.P. 12.35	42.03	3.38	29.68	
23+00		11.3	30.7	
30' Rt. = edge Pave		9.95	31.08	
75' Lt. = ℄ Prop. House		14.0	28.0	ground
23+50 - ℄		10.1	31.9	
72' Lt. = House		9.96	32.07	floor
24+00		8.5	33.5	
100' Lt. = Vac Lot		12.0	30.0	
24+50		6.7	35.3	
25+00 - ℄		4.9	37.1	
30' Rt. = edge Pave		3.00	39.0	
67' Lt. = House		6.40	35.6	floor
25+50		3.2	38.8	
26+00		1.8	40.2	
100' Lt. = Vac. Lot.		7.0	35.0	
T.P. 6.45	47.16	1.32	40.71	
26+50		5.8	41.4	
27+00		5.1	42.1	
30.2 Rt. = edge Pave		3.11	44.05	
11.4 Lt. = gut.		5.9	41.3	
" " = Top cb.		5.49	41.67	
100' Lt. = Vac. Lot.		9.5	37.7	

47.16

27+35 = D.E.	4.83	42,33	on Stub.
check B.M. - C+G Plug	4.26	42.90	42.94 - P.12

Levels on Prop. Sewer along ℄ of N. 20' Alley in Block 34 - 0+00 = 8+83.74 on Paseo Grande Line

B.M. = Top F.H. 2.72	10.17	7.45	Paseo Grande + Frescota
0+00 - on oil Pave	5.0	5.2	
0+15 = gutter = edge of oil Pave	5.6	4,6	
0+30 = W.L. Paseo Grande	5.7	4.5	
0+40 = end of Returns - ℄	5.2	5,0	
10' Rt = end Ret - gut	5.7	4,5	
" - Top cb.	5.30	4.87	
10' Lt = end Ret - gut	5.8	4,4	
" Top cb.	5.00	5,2	
0+50	4.9	5,3	
1+00	6.0	4,2	
1+50	6.5	3,7	
2+00 = D.E.	7.08	3.09	on Stub.

Levels on Prop. Sewer + Pump site in Mata Park - see P. 1 - for sketch

INDEXED

0+00 - spike in La Playa 4.48 13.05 8.57 = spike 0+00

0+15 = on pave	4.24	8.81
0+30.2 = cb. around Park		
℄ - gut.	4.63	8.42
℄ - Top cb.	4.00	9,05
50' Lt. - along cb. - gut.	3.43	9,62
Top cb.	2.79	10,26
50' Rt. along cb. - gut.	5.93	7,12
Top cb.	5.17	7,88
0+50 = ℄ Park = Dirt - ℄ =	3.7	9.4
50 Lt.	2.3	10.8
50 Rt.	4.9	8.2
0+51.6 - 4.5 Rt. = ℄ 4" Flag Pole		
" - 30' Rt. = ℄ 5' Palm		
0+52 - 20.5 Lt. = ℄ 5' Palm		
0+70.1 = S. cb. around Park		
℄ gut.	4.06	8.99
Top cb.	3.45	9.60
50' Lt along cb. - gut.	2.81	10.24
Top cb.	2.20	10.85
50' Rt. along cb. - gut	5.22	7.73
Top cb.	4.52	8.53

2358
W.O. 31339

INDEXED

Levels along Prop. Sewer along ℄ of Calle De La Plata - South of De La Playa Line - 0+00 = 4+40.98 on La Playa Line. - Pave - all way.

B.M. 5.90	10.14		4.24	℄ ct. P. 6
0+00 = Nail		6.14	4.00	P. 6
0+10.7 = 0.4 5' Rt. = ℄ Sewer M.H. - See P. 13 + 1				
Top - Rim		5.93	4.21	
0+40 = gutter.		6.45	3.69	
0+67 - 33' Rt. = Cor. House (New)				
℄		5.88	4.26	
33 Rt.		6.30	3.84	floor
"		6.2	3.9	ground.
1+00		5.77	4.37	
1+50		5.59	4.55	
2+00		5.20	4.94	
14.7 Rt. =	gut.	5.67	4.47	
" "	Top cb	5.16	4.98	
15 Lt. =	gut.	5.65	4.49	
	Top cb.	5.02	5.12	
2+50		4.94	5.20	
75 Rt. = Golf Course		6.9	3.2	
75' Lt. = Vac. Lot.		3.7	6.4	
3+00		4.70	5.44	
3+50		4.45	5.69	
4+00		4.15	5.99	
3+40 - 51' Lt. = ℄ New House		2.29	7.85	floor

10.14

4+50	3.88	6.26	
4+65 - 40' Rt. = ℄ House	3.20	6.94	floor
5+00	3.68	6.46	
T.P. 10.78 17.24	3.68	6.46	5+00-Nail
5+21 = gut.	11.03	6.21	
5+42.39 = ℄ Paseo Dorado	10.09	7.15	
5+63 = gut.	10.16	7.06	
6+00 - ℄	9.23	8.01	
41' Rt. = New House	8.71	8.53	floor.
6+50	8.17	9.07	
54.5 Rt. = House	6.72	10.52	floor
7+00	7.28	9.96	
7+50	6.36	10.88	
75' Rt. = Vac. Lot	6.7	10.5	
8+00 - Nail - B.M.	5.48	11.76	
8+30.72 = ℄ Paseo Grande	4.85	12.39	
8+50	4.37	12.87	
9+00	2.48	14.76	
9+15 - 41' Rt. = House	0.17	17.07	floor
T.P. 13.04 29.93	0.35	16.89	
9+50	12.26	17.67	
10+00 - ℄	8.53	21.40	
15' Rt. = = gut	9.17	20.76	
" " = Top cb.	8.59	21.34	
15' Lt. = gut.	8.98	20.95	
Top cb.	8.38	21.55	

29.93

10+50		4.35	25.58	
35' Lt. = House		1.91	28.02	floor
		3.2	26.7	ground
11+00 = BM. Nail		1.34	28.59	
11+08.29 = ℄ Paseo Del Ocaso		0.91	29.02	
T.P.	12.90	42.50	0.33	29.60
11+50			10.61	31.89
12+00 - ℄			6.31	36.29
75' Lt. = Vac. Lot.			5.4	37.1
12+50			1.76	40.74
T.P.	12.91	54.21	1.20	41.30
13+00 = Nail = D.F.			7.40	46.81
Lots Higher on Both Sides				
B.M. on 13+45 - Stub.			5.21	49.00
La Jolla Shores -				

Levels on Prop. Sewer along ℄ of Paseo Grande - S. of De La Playa

0+00 = 1+34.98 - on La Playa Line - Pave all way

BM = Nail	9.30	15.31	6.01 1+34.98 P.6
0+00		9.30	6.01
0+10 = 0.9 Lt. = ℄ M.H.	See P. 13+1	8.93	6.38 on Rim
0+33 = gut		9.42	5.89
0+50		9.18	6.13
1+00		8.52	6.81
75' Rt. = Vac. Lot.		8.6	6.7
1+50		7.83	7.48
2+00		7.15	8.16
2+23.26 = ℄ Alley to Lt. = 0+00 to E.			
℄ = Nail		6.85	8.46
2+50		6.42	8.89
52' Rt. = House		5.81	9.50 floor
3+00		5.59	9.72
15' Rt.	gut.	6.22	8.09
" "	Top - cb.	5.65	9.66
75' Rt. = Vac. Lot		6.5	8.8
15' Lt.	gut.	5.89	9.42
" "	Top cb.	5.31	10.00
every thing on Lt. is Higher.			
3+50		4.94	10.37
4+00		4.07	11.24
4+25 - 44' Rt. = House		3.16	12.15 floor

15.31

4+50	3.42	11.89	
4+78 - gut.	3.56	11.75	
4+94.48 = ℄ Dorado Pasco	2.58	12.73	
T.P. 6.64 19.37	2.58	12.73	
5+14 = gut.	7.00	12.37	
5+65 = Ang. - 22° 06' Rt.	5.90	13.47	Nail
6+00	5.74	13.63	
100' Rt. = House.	6.15	13.22	floor
6+50 - ℄	5.41	13.96	
7.5' Rt. = Closest to gut. cb.	5.75	13.62	
Top cb.	5.23	14.14	
6+70 - 40' Rt = House	4.91	14.46	floor
7+00	5.64	13.73	
12.7' Rt. = gut.	6.38	12.99	
" " = Top cb.	5.84	13.53	
7+22.40 = D.E. = Nail	5.91	13.46	
12.8' Lt. = gut.	6.12	13.25	
= Top cb.	5.55	13.82	
check B.M. - 8+00 - De La Plata	7.61	11.76	11.76 - P.20

Levels on Prop Sewer along ℄ of 20' Alley - E. of 2+23.26 on Pasco Grande Line = 0+00

2+23.26 = Nail 9.09 17.55 8.46

0+00	9.09	8.46
0+15 = gut.	9.19	8.36
0+30 = E.L. = end of Pave	8.93	8.62
10' Rt. - end cb. Ret. -	8.43	9.12 gut.
"	8.18	9.37 Top cb.
10' Lt. = end Ret.	8.80	8.75 gut.
	8.52	9.03 Top cb.
0+60 = Dirt	8.5	9.1
25' Rt. - Back of House	3.23	14.32 floor
1+00	5.6	12.0
1+30	4.8	12.8
26' Lt. = ℄ House	3.71	13.84 floor
1+60	3.9	13.7
1+85 = D.E. - stub.	3.27	14.28
50' Rt = Vac Lot.	1.4	16.2
50' Lt - " "	3.2	14.4

Levels on Prop. Sewer along ℄ of Paseo Del Ocaso - S. of De La Playa

0+00 = 1+30 on La Playa Line - Paved all the way

INDEXED

		21.37		
B.M.	10.03		11.34	= 1+30 Nail P1 13
0+00		10.03	11.34	
0+10 = - 0.6' Lt. = ℄ Mh.		9.82	11.55	on Rim
0+30 = gut.		10.18	11.19	
0+50		9.39	11.98	
1+00		8.24	13.13	
1+50		7.28	14.09	
1+85 - 31' Rt. = House		5.59	15.78	floor
41' Lt. = House		4.10	17.27	floor
2+00		6.21	15.16	
2+50		5.19	16.18	
3+00 - ℄		4.06	17.31	
15' Rt. =	- gut.	4.72	16.65	
"	Top cb.	4.12	17.25	
75' Rt. = Vac. Lot		4.4	17.0	
15' Lt. =	= gut.	4.29	17.09	
"	Top cb.	3.61	17.76	
75' Lt. = Vac. Lot		1.8	19.6	
3+50		2.96	18.41	
4+00		1.80	19.57	
75' Rt. = Vac. Lot		3.0	18.4	
4+50		0.72	20.65	

	21.37		
4+76 - gut		0.78	20.59
T.P. 8.52	29.47	0.42	20.95
4+94.31 = ℄ Paseo Dorado		7.99	21.48
5+13 = gut.		8.35	21.12
5+50 = ℄		7.32	22.15
40' Rt. = House		7.04	22.43 floor
everything on left is Higher			
6+04 = Hng 20° 05' Rt. - ℄		6.70	22.77
9.4' Lt. - gut.		6.82	22.65
Top cb.		6.26	23.21
6+50 - ℄		6.20	23.27
12.6 Rt. = gut.		6.77	22.70
" " Top cb.		6.30	23.17
7+00 - ℄		5.87	23.60
8' Rt. = gut.		6.36	2311
Top cb.		5.76	23.71
75' Rt. = Vac Lot		7.3	22.2
7+30 - ℄		5.54	23.93
74' Rt. = closest cb - gut.		5.94	2353
Top		5.39	2408
57' Rt. = House		5.74	23.73 floor
7+50		5.28	24.19
7.9 Rt. = cb.			
8+00 - ℄		4.38	2519
12.4' Rt. = cb.			
42' Rt. = House		3.05	26.42 floor

	29.47			
8+39.27 = Hng. 23° 51'30" Rt.		3.86	25.61	±
11.5' Lt. =	gut.	4.16	25.31	
	Top cb.	3.55	25.92	
8+50 - ±		3.74	25.73	
100' Rt. = Vac. Lot		7.0	22.5	
9+00		3.50	25.97	
8.2 Rt. = cb.				
9+20 - 54' Rt. = House		4.66	24.81	floor
T.P. 5.94	32.84	2.57	26.90	
9+50		6.49	26.35	
4.9 Rt. = cb.				
9+70 - ±		6.25	26.59	
4.6 Rt. =	gut.	6.53	26.31	
	Top cb.	5.90	26.94	
100' Rt. = Vac. Lot.		10.6	22.2	
10+00 - ±		5.85	26.99	
5.5 Rt. = cb.				
10+30 - ±		5.37	26.47	
8.2' Rt. =	gut.	5.73	27.11	
" =	Top cb.	5.09	27.75	
42' Rt. = House		4.74	28.10	floor
10+60.87 = D.E. = Nail		4.77	28.07	
12.3 Rt. = cb.				
check 11+00 Nail - P. 21		4.26	28.58	28.59'

Levels on Prop. Sewer along W. side of La Jolla Shores Dr S. of De La Playa 0+00 = 4+06.30 on La Playa Line - unpaved

B.M. 12.90	30.31		17.41	4+06.30 Nail-P13
0+00 - on pave			12.90	17.41	
0+50 " "			12.11	18.20	
0+65 = end of Pave			11.85	18.46	
1+00 - Dirt		Pave	11.3	19.0	
30' Lt. = edge		18' Conc	10.11	20.20	
1+50			10.1	20.2	
1+85 - 63' Rt. = House			10.46	19.85	floor
2+00			8.8	21.5	
2+50			7.4	22.9	
3+00			5.9	24.4	
30' Lt. = edge Pave			4.45'	25.86	
11' Rt. =		gut.	6.5'	23.8	
" "		Top cb.	5.66	24.65	
55' Rt. = House			5.93	24.38	floor
3+50			4.5'	25.8	
75' Rt. = Vac. Lot			5.5'	24.8	
4+00					
35' Rt. = House			4.80	28.51	floor
4+41.6 = edge of Pave		AC.	1.77	28.54	
4+94.40 = ± Paseo			0.25'	30.06	on Nail
T.P. 10.63	Dorado 40.69		0.25	30.06	

40.69

5+47.5 - edge A.C. Pave	9.40	31.29	
5+80 - ± - Dirt	9.3	31.4	
75' Rt. = Vac. Lot	10.8	29.9	
6+00	9.0	31.7	
27.5' Lt. = edge Pave	7.03	33.66	
6+30 - ±	8.4	32.3	
65' Rt. = House	9.01	31.68	floor
6+42 = Ang. 17° 18' Rt.	8.04	32.65	on Stub.
6+70 - 11.7 Rt. = cb.			
7+00	7.2	33.5	
60' Rt. = House	8.19	32.50	
7+50	6.5	34.19	
8+00 - ±	5.8	34.9	
30.3' Lt. = edge Pave	4.53	36.16	
11.3' Rt. = gut.	6.5	34.2	
Top cb.	5.60	35.09	
58' Rt. = House	6.64	34.05	
8+50	5.1	35.6	
8+90 - 11' Rt. = cb.			
9+00 - ±	4.2	36.5	
100' Rt. = Vac. Lot	9.8	30.9	
24.5' Lt. = edge Pave	3.73	36.96	
9+04.68 = Ang. 15° 50' Rt.	4.19	36.50	stub.
9+50	3.5	37.2	
10.8 Rt. = cb.			

40.69

10+00	2.4	38.3	
75' Rt. = Vac. Lot	8.0	36.7	
10+50	1.3	39.4	
T.P. 11.68 51.99	0.38	40.31	
11+00 - ±	11.1	40.9	
35.3 Lt. = edge Pave	9.85'	42.14	
11' Rt. = cb.			
11+33.18 = Ang. 11° 17' Rt.	9.93	42.06	stub.
11+60 - ±	9.1	42.9	
11' Rt. = cb.			
75' Rt. = Vac. lot.	14.9	37.1	
12+00	8.1	43.9	
12+50	6.6	45.4	
12+55 - 16.3 Lt. = ± 4'x4'	Gas. Co. M.H.		
Top Rim.	5.36	4663	
13+00	5.1	46.9	
11' Rt. = cb.			
55' Rt. = House (front)	3.07	48.92	upper floor.
85' Rt. = Basement floor Plumbing	12.44	39.55	base floor
13+55 = D.E.	3.00 -	48.99 4900	stub.
16' Lt. = edge Pave	2.33	4966	
21.8 Rt. = cb. = gut.	3.8	48.2	
Top cb.	2.95'	49.04	
75' Rt. = Vac. Lot	5.5	46.5	

9-23-48 - 7.0.

Levels

Change in Loc. of D.E. at N. End of Paseo Del Ocaso - Sec P. 2

INDEXED

B.M.	4.25'	31.50	27.25'	Top. Hyd. P. 12
24+57 = old Ang. Pt.		7.53		
25+00		6.50		
25+59.60 = Ang. 17°10' Lt.		5.31		on ct.
26+00 = 5.1 Lt. = Gas - closest		5.06		
10.1' Lt. = gut. - (nearest)		5.66		
" " Top cb.		5.39		
26+44.60 = D.E. ℄ on Nail		4.66		

5.4 Rt. = ℄ Water Line (about 7' out from cb. Here)

12.6 = curb at 90° to cb.	gut.	4.16	
	Top	3.53	

Note: Gas line is about 5' out from cb.

9-23-48 - 7.0.

26

Levels along New line along Camino Del Oro - Bet. Paseo Del Ocaso & El Paseo Grande - Loc. P. 2 & 3 - No utilities

INDEXED

B.M.	0.19	12.88	12.69 = 19+17.31 ct. P. 15
0+00 = ct. = ℄ Del Oro &			19+17.31 on Del Ocaso
℄ = on ct			0.19
0+30 = edge A.C. Pave			0.90
0+60 - Dirt			2.7
1+00 - ℄			5.0
10.7 Lt. = Nearest cb. on Lt. - gut.			4.7
Top			3.91
1+50			7.8
2+00			9.8
2+18 = closest cb. on Rt. ℄			9.9
10.2 Rt. =		gut.	10.0
" "		Top	9.70
2+50			10.2
3+04 = edge of oil pave			10.6
3+17.75 = ℄ Paseo Grande = 17+42			10.62 on Nail

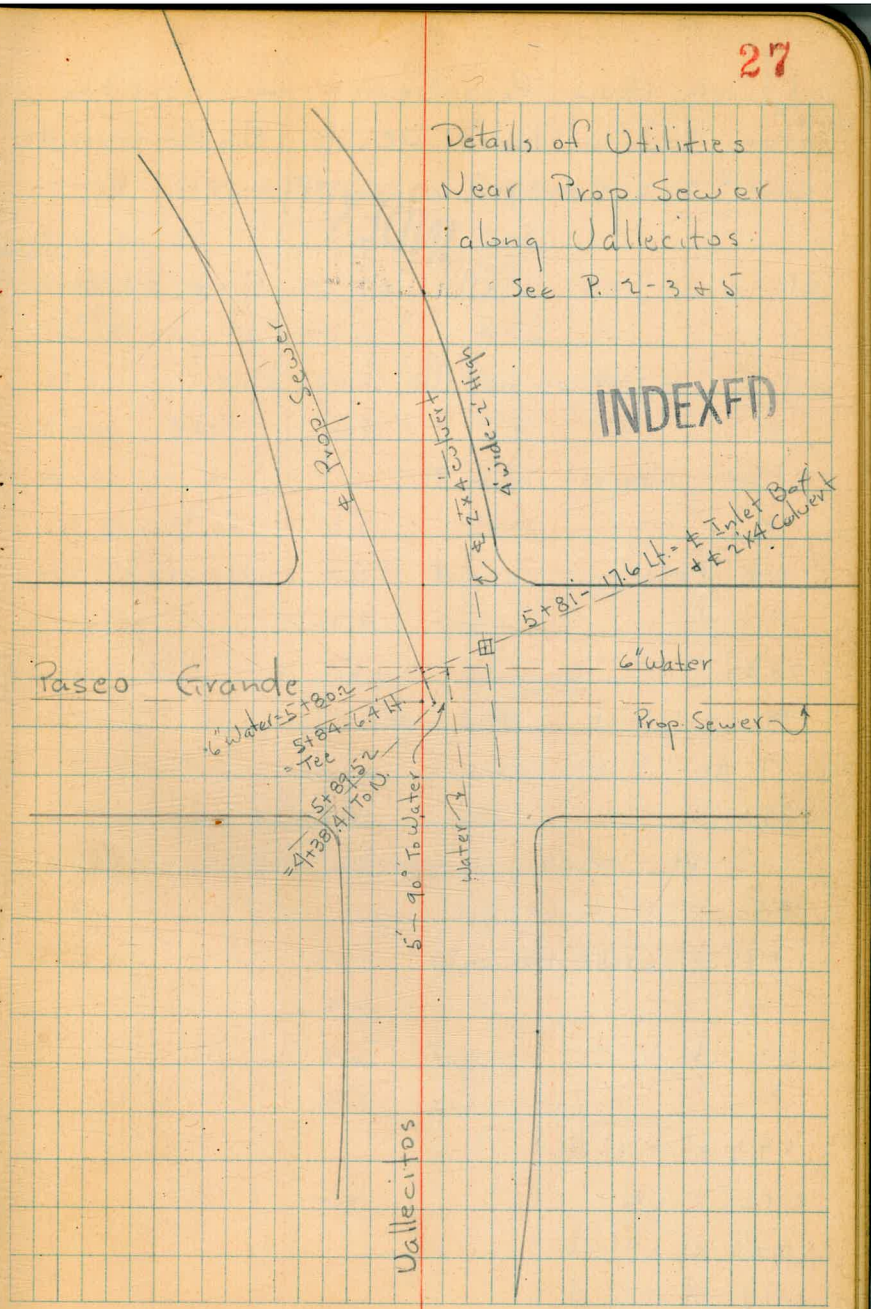
Levels along Prop. Sewer in Calle Frescota - Paseo Grande to Camino Del Oro. See P. 3 + 4

B.M.	0.00	7.45	7.45	Top Hyd P. 8

0+00 = 10+46.30 on Paseo Grande		
℄ - on Nail		3.78
0+33 = edge of oil pave		4.4
0+57 = closest to cb. on Lt.		4.6
℄		4.6
4.1 Lt. =	gut.	4.7
" "	Top cb.	3.99
1+10		4.6
1+60 = closest to cb. on Rt.		
℄		5.3
4.7 Rt. =	gut.	5.4
" "	Top	4.82
2+10		5.2
2+55 = closest to cb. on Lt.		
℄		5.3
4.1 Lt. =	gut.	5.4
" "	Top	4.67
2+95.25 = 9+98.80 on Camino Del Oro		
℄		4.8

Note: New 1½" Gas Line 2.5' N. of ℄ sewer from 0+18 to 1+88 - then angles north - See plan
Best location could work out with Foreman

Details of Utilities Near Prop. Sewer along Vallecitos
See P. 2-3 + 5



Levels along Prop. Sewer in Vallecitos from La Jolla Shores Dr. to Paseo Grande

See P. 2-3-5 + 27

B.M.	7.06	16.10		9.04	c.t. - ℄ Vallecitos + Paseo Del Ocaso P. 14
0+00 = 6+64 on La Jolla shores Line					
℄			4.6	11.5	
0+34 = Nearest cb. on Rt.					
℄			5.2		
6.4' Rt.	-	gut	5.4		
" "	-	Top	4.46		
0+85	-	℄	5.5		
14' Lt. = S. cb.					
17' Rt. = N. cb.					
1+20	-	℄	5.9		
21.7 Rt. = N. cb.					
8.8' Lt. = S. cb.					
1+75 = closest cb. on Lt.					
℄			6.3		
5.6' Lt.	-	gut	6.4		
" "		Top	5.75		
24.3' Rt. = N. cb.					
2+25	-	℄	6.6		
23.5 Rt. = N. cb.					
7.7' Lt. = S. cb.					

16.10

2+62 = edge A.C. pave			6.81	
2+88 = 5+82.11 on Paseo Del Ocaso - Ang. Pt.				
℄ = on. c.t.			7.06	
T.P. 3.76		12.80	7.06	9.04
3+16 = edge F.C. Pave			4.26	
3+60			4.6	
4+00			5.3	
4+40	-	℄	5.8	
8.4' Rt. = N. cb.				
4+75 = Nearest cb. on Rt.				
℄			6.0	
5' Rt.	-	gut	6.2	
" "		Top	5.14	
5+20			6.2	
5+48 = edge oil pave			6.2	
5+89.52 = 4+38.41 on Paseo Grande				
℄			6.7	

Levels along Prop Sewer in Camino Del Sol & De La Ribera - Cont. sta. from 3+28 = D.E. on Camino Del Sol - See P. 4

INDEXED

B.M.	6.01	8.99	2.98	6+06.11 La Playa - P.6

3+28 = old D.E. - See P. 9 for Levels to Here

℄			5.2
3+53.50 = Fing. Pt. -			
℄			5.1
3+62.1 = cross 4" Water			
4+00	—	℄	5.2
+50	"		5.1
5+00			
℄			5.0
15.1 Lt.	=	gut	5.5
" "	=	Top	5.01 3.98
14.9' Rt	=	gut	5.5
" "	=	Top	4.90
5+23.50 = D.E.			4.9

Levels along New Prop Sewer in De La Playa - from 2+02.50 on old line to Int. with stub line to Beach club. - P. 1+2

INDEXED

B.M. 4.63	9.61	4.98

2+02.50 = Ang. 6° 15' Rt.			
℄			4.16
2+55 - Nearest cb. on Rt.			
℄			4.76
5' Rt.	=	gut	5.16
" "	=	Top	4.58
3+00			4.96
+50			5.04
4+00			5.23
4+26 = Cross water line			
4+36.66 = ℄ Exist M.H. = Ang. 6° 18' Rt.			
℄ on Rim			5.41
4+47 - Cross 2" Gas			
4+33 - 18.5' Rt. = Ang. in water line			
4+52.1 10' Rt. = " " Gas "			
4+60			5.58
5+00 ℄			5.79
10.1' Rt. = Gas			
18.4' Rt = Water			
5+50			6.14
5+52 = edge AC. pave = S. edge also			6.16

9.61

6+00			6.7	
6+07 - 9.2 Rt. = Fnq to N. of Gas Line				
6+09.31 = 0-10.59 to N. = on ℄ Camino Del Sol.				
℄ on Stub.			6.80	
	3.88	6.69	6.80	2.81
6+50			4.1	
7+00 -		℄	4.3	
3.9 Rt. = edge Pave			4.18	
7+50			4.5	
8+00			4.8	
18' Rt. = Water.				
8+50			5.0	
8+74 = Cross water to club.				
8+77 = edge H.C. Dr.			5.15	
9+03.06 = 0-10.62 to N. = ℄ Camino Del Oro				
℄ on Nail			5.26	
9+15 = edge Dr.			5.39	
9+50			5.6	
4.6 Rt. = edge Pave			5.53	
10+00			5.5	
+50			6.0	
T.P.			5.29	1.40 = P.6 0+00 Del Oro

Levels Thru Test Holes - 3" Dia. - for location of Culverts & Water table.

on Paseo Del Ocaso - See P. 15

20+70 - ℄ Culvert.

16' Lt. = Top pipe

34' Lt. = end pipe

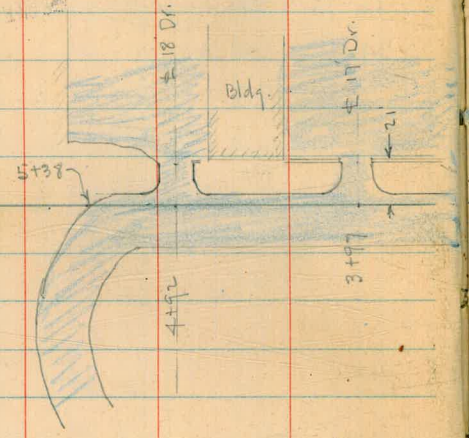
INDEXED

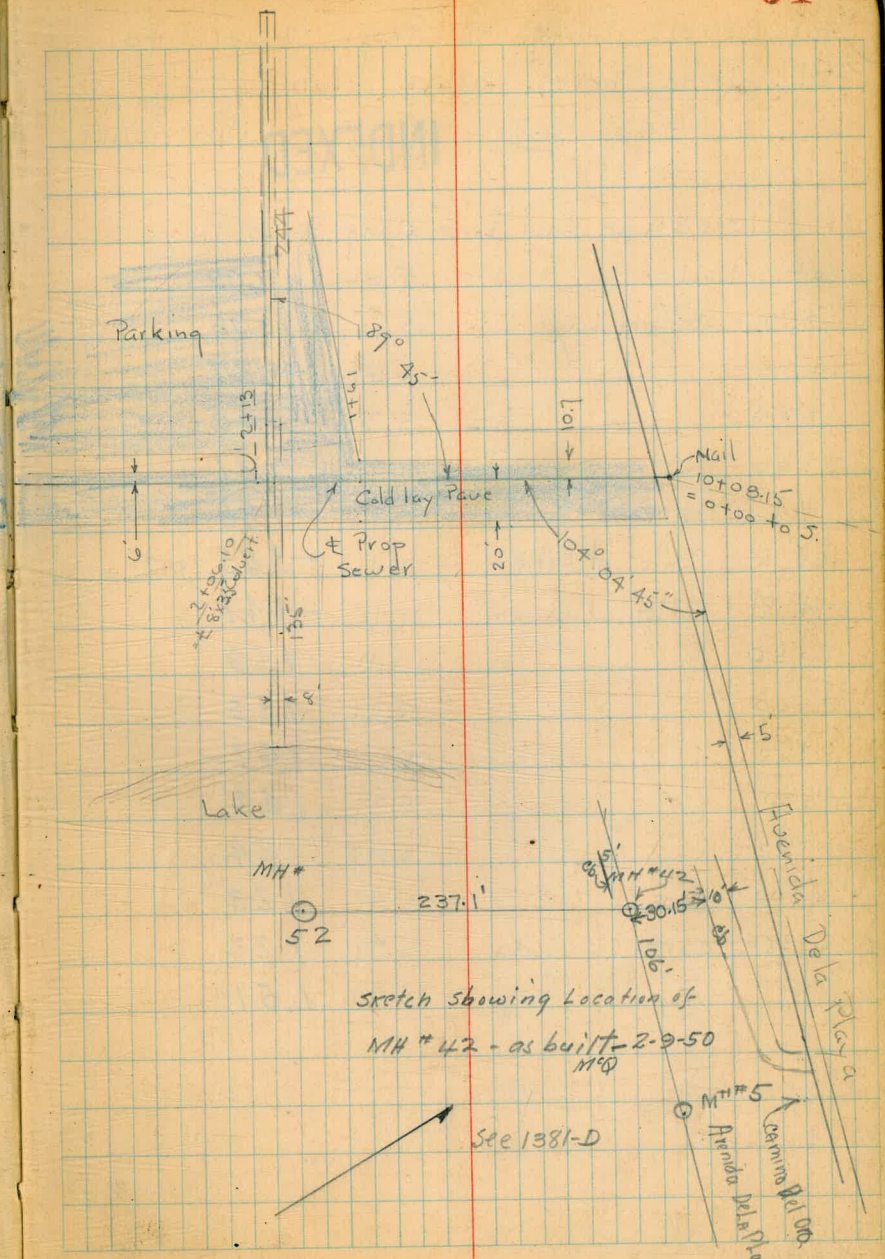
Loc. Prop. Sewer to La Jolla Shores Beach club. – 10-22-48

7.0.

W.O. 31339

INDEXED



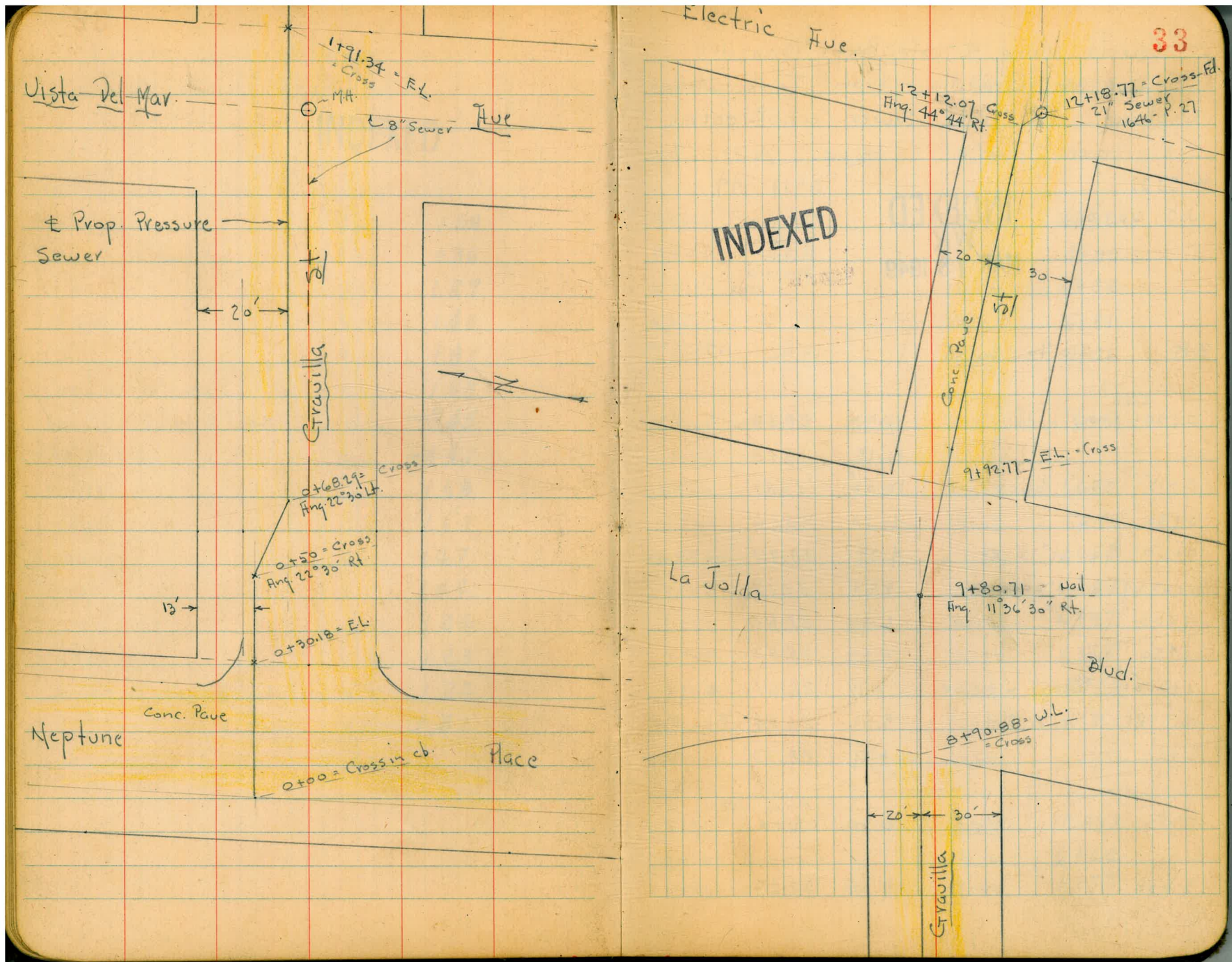


Levels along ℄ Prop. Sewer to La Jolla Shores Beach club.

3.20 6.71 INDEXED 5.51 BP in Sea Wall

0+00 = 10+08.15 on Last Line along De la Playa

0+00 = Nail		5.62	1.09
+50 = on Cold Lay		5.75	0.96
1+00		5.44	1.27
+50		5.31	1.40
2+00		4.90	1.81
+06.10 = ℄ 8x3.5 Conc. Box	culvert.	4.83	1.88
135' Lt. = Inlet at Lake		10.16	−3.45 = F.L. of Box
244' Rt. = Outlet at Ocean		11.12	−4.41 = " " "
2+50 ℄		5.12	1.59
3+00		5.21	1.50
+50		5.24	1.47
4+00		5.27	1.44
+50		5.47	1.24
5+00		5.48	1.23
5+38 = curb = gut.		5.49	1.22
	Top	5.20	1.51


Vista Del Mar
1+91.34 = E.L. = Cross
M.H.
℄ 8" Sewer
Ave
℄ Prop. Pressure Sewer
20'
Gravilla
0+68.29 = Cross
Ang. 22°30' Lt.
0+50 = Cross
Ang. 22°30' Rt.
13'
0+30.18 = E.L.
Conc. Pave
Neptune
Place
0+00 = Cross in cb.
Electric Ave.
12+12.07 Cross
Ang. 44°44' Rt.
12+18.77 = Cross-Fd.
21" Sewer
1646 - P. 27
INDEXED
20
30
Conc Pave
9+92.77 = E.L. = Cross
La Jolla
9+80.71 - Nail
Ang. 11°36'30" Rt.
Blvd.
8+90.88 = W.L. = Cross
20'
30'
Gravilla

Levels along ℄ of Prop. Pressure Sewer in Gravilla - from Tank at Neptune to Trunk Sewer at Electric

3333
W.O. 60207

3-17-49
Osborne
Hardin
Hatch
Shepard

B.M.	10.40	30.36		19.96	0+36.06 1646-P.28
Face 0+00 = Cross on ch.			10.24	20.12	Top
			11.18	19.18	Gut
0+15 = Conc. Pave			10.58	19.81	
0+30			10.10	20.26	
0+50 = Ang. 22°30' Rt.			9.39	20.97	on Cross.
0+68.29 = Ang. 22°30' Lt.			8.24	22.12	" "
1+00			6.74	23.62	
1+50			4.44	25.92	
1+61.5 = Cross 6" Sewer			3.75	26.61	℄
8' Rt. = ℄ Sewer M.H.			9.42	20.94	F.L. M.H.
2+00			1.37	28.99	
T.P.	12.97	42.73	0.60	29.76	
2+50			9.04	33.69	

42.73

3+00			3.94	38.79
T.P.	13.09	55.56	0.26	42.47
3+50			11.60	43.96
4+00			6.56	49.00
4+15 = Brk			5.24	50.32
4+50			3.75	51.81
5+00			1.50	54.06
T.P.	13.10	68.09	0.57	54.99
5+50			11.84	56.25
6+00			9.59	58.50
6+50			7.56	60.53
7+00			5.82	62.27
7+50			4.12	63.97
8+00			2.44	65.65
8+50			0.79	67.30
T.P.	10.60	78.16	0.53	67.56
Beg. H.C. Pave 8+93 = Brk = end Conc. ℄			9.29	68.87
9+14 = gut			9.72	68.44
9+42 = ℄			8.43	69.73

X

7179

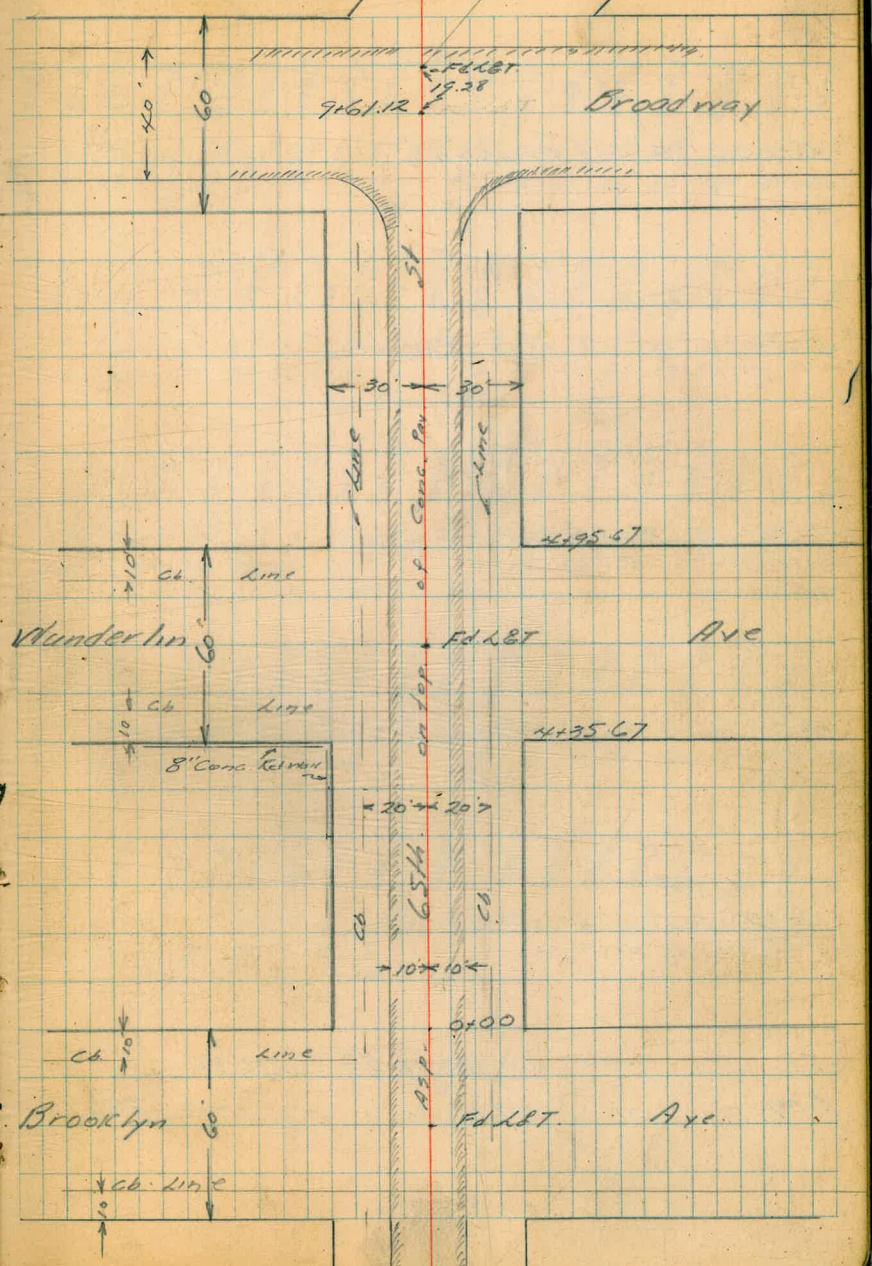
78.16

9+70 = q.t.	7.70	7046	
9+80.71 = Ang. 11°36'30" Rt.	7.27	7089	Nail
			1646 - P.29
Check B.M. - S.E. B.P.	6.69	71.47	71.47
9+92.5 = end R.C. + Beg. Conc. Pave	6.96	7120	
10+00	6.82	7134	
10+50	5.70	7246	
11+00	4.55	7361	
11+50	3.40	7476	
12+00	2.57	7559	
12+12.07 - Ang. 44°44' Rt.	2.44	7572	on Cross
12+18.77 = Fd. Cross	2.29	7587	on Cross

9-30-49
Hendricks
Roberts
Greer
Bunch

Profile of Ex. Paving on 65th St.
Brooklyn to Broadway to Ex. Cab. Gr.

Notes Reduced & Plotted
Profile # 2134
McClennen
9/15/49



Levels. 65th. St.

0+00 No Line Brooklyn

0-10 No. Cb. Line Brooklyn

0-30 ℄ Brooklyn

0-50 So. Cb. Line Brooklyn

0-60 So Line Brooklyn

T.P.	− 0.04	276.30	11.57	276.34	
B.M.	1.01	287.91			286.90

271.1	271.6	271.2	272.3	271.8	271.5	270.5	267.6	267.85	268.03	267.76	267.3	268.1	267.0	266.1	262.2	260.4	260.0			
5.2	4.7	5.1	4.9	4.5	4.8	5.8	8.7	8.45	8.27	8.54	9.0	8.2	9.3	10.2	14.1	15.2	16.1			
200	150	106	103	50	34	25	16	10		10	15	20	30	50	100	150	200			
								Pav.		Pav.										
270.9	271.5	271.3	269.9	268.8	268.2	267.4	267.57	267.70	267.40	267.1	267.6	267.5	267.1	265.5	261.9	259.9	259.2			
5.4	4.8	5.0	6.4	7.5	8.1	8.9	8.73	8.60	8.90	9.2	8.7	8.0	9.2	10.1	14.4	16.4	17.1			
200	150	100	50	26	22	16	10		10	15	20	26	30	50	100	150	200			
							Pav.		Pav.											
271.0	271.5	271.3	269.8	268.2	266.8	267.03	267.17	266.88	266.7	266.8	266.7	265.2	261.4	259.7	258.7					
5.1	4.8	5.0	6.5	8.1	9.5	9.37	9.13	9.42	9.6	9.4	9.6	11.1	14.3	16.6	17.6					
200	150	95	50	27	16	10		10	16	26	30	50	100	150	200					
						Pav.		Pav.												
269.9	270.1	270.2	269.1	268.2	267.7	266.2	266.57	266.66	266.49	265.9	266.2	266.0	264.5	261.3	258.5	258.0				
6.4	6.2	6.1	7.2	8.1	8.6	10.1	9.73	9.64	9.81	10.4	10.1	10.3	11.5	15.0	17.8	18.3				
200	150	100	50	30	21	15	8		8	15	21	30	50	100	150	200				
						Pav.		Pav.												
269.9	269.8	269.9	268.6	267.6	267.3	265.8	266.25	266.29	266.17	265.5	266.0	265.5	264.2	261.1	258.3	257.6				
6.4	6.5	6.4	7.2	8.2	9.0	10.5	10.05	10.01	10.13	10.8	10.3	10.8	12.1	15.2	18.0	18.7				
200	150	100	50	30	19	15	8		8	15	21	30	50	100	150	200				
						Pav.														

276.30

℄ L&T. 65th. & Wunderlin

Levels 65th St. Contd.

3+00				
2+50				
TP	13.14	289.48	+0.04	276.34
2+00				
1+50				
1+00				
0+50				
		276.30		

280.20 280.26 279.97
9.28 9.22 9.51
10 10

278.15 278.20 277.96
11.33 11.28 11.52
10 10

289.48

276.10 276.16 275.87
0.20 0.14 0.43
10 10

274.06 274.13 273.83
2.24 2.17 2.41
10 10

271.92 272.04 271.78
4.39 4.26 4.52
10 10

269.77 269.97 269.72
6.53 6.33 6.58
10 10

276.30

Levels 65th St Contd

4+85.67	No. Cb. Line Wunderlin				
4+65.67	E Wunderlin				
4+45.67	So. Cb. Line Wunderlin				
4+35.67	So Line Wunderlin				
BM	6.47	293.37	2.58	286.90	286.90
4+00					
3+50					
		289.48			

E Wunderlin 293.37

287.0 289.6 290.9 290.4 290.5 290.6 287.8 287.25 288.00 287.71 287.4 289.3 289.2 288.6 287.2 285.5 284.5

6+4 3+8 2+5 2+30 2+9 2+8 5+6 5+33 5+37 5+66 6+0 4+1 4+2 4+8 6+3 7+2 8+9

200 150 100 50 30 20 14 10 10 15 23 30 50 100 150 200

Pav. Pav.

286.4 287.9 289.0 289.2 289.0 287.0 287.08 287.08 286.82 286.5 286.8 286.8 286.0 284.6 283.7

7+0 5+5 4+4 4+2 4+4 6+4 6+29 6+29 6+5 6+9 6+6 6+6 7+4 8+3 9+7

200 150 100 50 27 15 10 10 16 30 50 100 150 200

Pav. Pav.

285.4 286.7 287.6 287.9 287.9 287.4 286.1 286.20 286.25 285.98 285.7 286.9 286.9 285.1 283.8 282.7

8+0 6+7 5+8 5+5 5+5 6+0 7+3 7+7 7+12 7+38 7+2 6+5 6+5 8+3 9+6 10+7

200 150 100 50 30 22 14 10 10 15 30 50 100 150 200

Pav. Pav.

285.4 285.91 286.1 286.55 286.91 287.36 287.4 287.64 287.1 285.80 285.82 285.55 285.1 287.1 286.9 286.3 284.8 283.4 282.3

8+0 7+4+0 7+3 6+8+2 6+4+6 6+0+1 6+5 5+7+3 7+7+8 7+5+5 7+8+2 8+3 6+3 6+5 7+1 8+6 10+0 11+1

200 200 160 160 100 50 30 30 15 10 10 15 21 30 50 100 150 200

Gr Wall Gr. Wall Gr. Wall Gr. & Wall

E & E of 65th

Pav.

287.69 284.34 284.36 284.12

1+79 3+14 5+12 5+36

10 10

Fl. of School

282.30 282.32 282.07

7+8 7+16 7+41

10 10

289.48

Levels 65th St Cont'd

6+50

6+44.8 End Sw 24' Rt.

6+00

5+85.3 Beg. Sw on Rt (24' Rt)

T.P. 13.40 306.62 0.15 293.22

5+50

4+93.67 No. Line Wunderlin

293.37

296.77 296.93 296.75

98.5 96.9 98.7

10 10

297.00 296.99

96.2 96.3

24 29

294.00 294.12 293.91

12.63 12.50 12.71

10 10

293.74 293.83

12.88 12.79

24 29

Sw. Sw.

306.62

291.21 291.36 291.11

2.16 2.01 2.26

10 10

287.3 291.0 292.0 291.4 291.1 290.9 288.4 288.41 288.45 288.18 287.8 289.8 290.1 290.3 289.8 288.7 287.9

6.1 2.4 1.4 2.0 2.3 2.5 5.0 4.96 4.82 5.19 5.6 3.6 3.3 3.1 3.6 4.7 5.5

200 150 100 50 30 19 14 10 10 14 20 30 50 100 150 200

293.37

Levels 65th St. Contd.

9+21.				
9+00				
8+50				
T.P.	11 77	318.17	0.22	306.40
8+00				
7+50				
7+00				

306.62

E.

311.92	312.17	312.20
6 25/10	6 00	5 97/10
310.79	311.03	311.05
7 38/10	7 14	7 12/10
307.82	308.09	308.18
10 33/10	10 08	9 97/10

318.17

305.10	305.27	305.25
13 42/10	13 34	13 37/10
302.35	302.55	302.46
4 27/10	4 07	4 16/10
299.52	299.71	299.61
7 10/10	6 91	7 01/10

306.62

T.P.

BM. 5.95 312.22 312.2x

9+61.12 ℄ Broadway (℄ Conc Pav)

9+41.12 30 Edge Conc. Pav. Broadway

318.17

BP 30 Line Broadway 1' E of Wly. Edge Pav. 65th St.

312.27	312.97	313.39	313.62	313.75	314.33	314.51
5.90	5.20	x.78	4.55	x.42	3.84	3.66
45	30	10		10	39	50

311.50	312.32	312.81	313.03	313.19	313.75	313.86
6.67	5.85	5.36	5.14	x.98	x.42	x.31
50	30	10		10	39	50

318.17

X Sections Orange

4024

W.O. 31425

Begg
Doyle
Greer
Bunch

10/19/49

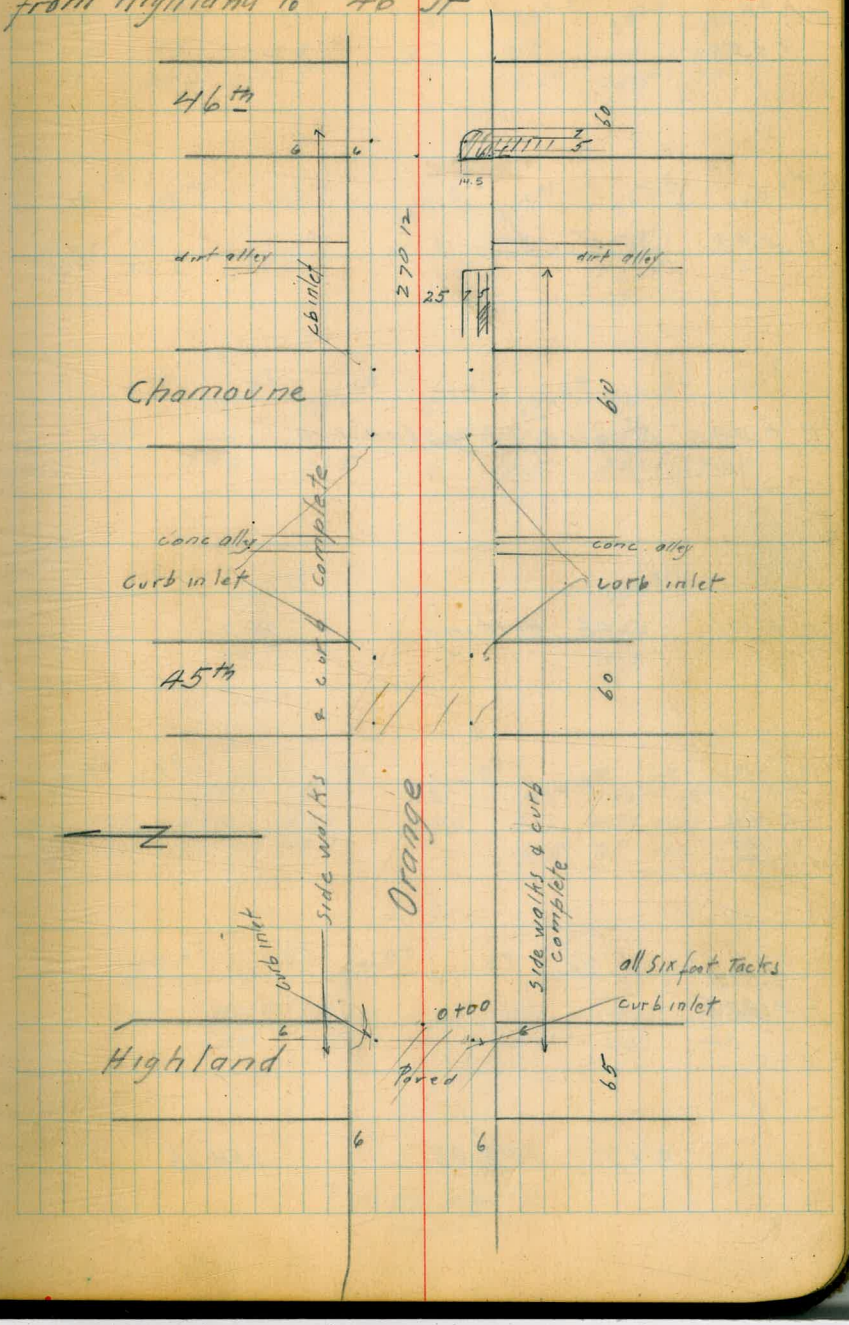
Orange

BM	NW BP	354.16	Highland
"		352.56	45th±
"		out ~~351.20~~	Ch amoune
"		353.94	46th

INDEXED
W.K.
OCT 20 1949

Notes Reduced
V.W. 10-20-49

from Highland to 46th St



+50

0+03 BC of curb.

0+00 E Line Highland

-0.08 Curb grating

-0 12

-0.325

3·87 358·03 3541 6

358·03

353.62 352.7 353.2 353.3 353.2 353.1 353.85
441 53 4·8 4·7 4·8 4·9 4·18
C6 24·1 12 5 12 5 25·5 C6

353.80 352.9 353.5 353.8 353.7 353.5 354.14
4 23 5·1 4·5 4·2 4·7 4·5 3·89
C6 24 2 12 5 12 5 25·5 C5
9

353.88 353.07 353.54 353.95 353.89 353.49 354.17
4·15 4.96 4.49 4.08 4·14 4·54 3·86
C6 24.6 12 5 12 5 26 25·95

352.98
5·05
28·7

353.34
4 69
30·2

353.83 353.35 353.33 353.76 354.07 354.04 353.73 353.70 354.25
4 20 4.68 4.70 4·27 3 96 3 99 4 30 4 33 3·78
C5 40 40 24 12 5 12·5 25 40 C6 40

354.05 353.59 353.89 354.28 354.30 353.98 354.41
3·98 4 44 4·14 3·75 3·73 4·05 3 6·2
40 24 12 5 12 5 25 40

1+47.4 EC of curb 2' Rt.

1+45.04 alley line

353.3 47 40 — 353.35 468 40 CB

1+45.04 alley line

353.2 4.8 40 — 353.42 4.61 40.1

1+23.04 BC of 2' Radius

353.15 4.88 BC of CB — 352.5 5.5 24.1

1+10 To 1+20 curb destroyed on Rt.

1+00

358.03

353.02 5.01 CB 24.1 — 352.5 5.5 g

352.6 5.4 35 — 353.18 4.85 CB

353.50 4.53 40 CB — 353.1 4.9 40.5

353.1 4.9 26.2 — 353.09 4.94 26.2 — 352.4 5.6 24. — 352.6 5.4 12.5

352.8 5.2 — 352.8 5.2 12.5 — 352.6 5.4 25 — 353.26 4.77 27.5 CB — 352.8 5.2 47.5

353.19 4.84 26.1 — 352.5 5.5 24.1 — 352.8 5.2 12.5

352.9 5.1 — 352.8 5.2 12.5 — 352.8 5.2 25.4 — 353.19 4.84 27.4 CB EC — 353.58 4.45 38.8 end of CB

353.2 4.84 40

352.8 5.2 25.4 — 353.23 4.80 25.4 CB

353.21 4.82 CB 24 — 352.5 5.5 — 352.8 5.2 12.5

353.0 5 — 352.9 5.1 12.5 — 352.8 5.2 25.5 — 353.48 4.55 CB

358.03

356.51

3.96 356.55 5.48 352.55 352.56

12E line of curb

2+70 Q W Line 45° on As Paving

2+40

2+18 gar Rt 10' of.

2+00

1+55 S gar Lt 12 of

BM 455ft

352.56 352.08 351.97 352.17 352.31 352.13 351.65 351.78 352.38
5.47 5.95 6.06 5.86 5.72 5.90 6.38 6.25 5.55
cb 38 24 12.5 12.5 25.5 40 cb

352.49 352.04 352.28 352.47 352.23 351.71 352.33
5.54 5.99 5.75 5.56 5.80 6.32 5.70
cb 24 12.5 12.5 25.5 cb

352.68 352.0 352.0 352.1 352.1 351.8 352.50
5.35 6.0 6.0 5.9 5.9 6.2 5.53
24 12.5 12.5 25.5 cb

352.07 352.88
5.96 5.15
25.5 32.6

352.85 352.2 352.3 352.3 352.3 352.1 352.77
5.18 5.8 5.7 5.7 5.7 5.9 5.26
cb 24 12.5 12.5 25.5 cb

353.28 352.46
4.75 5.57
33.1 24.1
side walk
edge

358.03

1+00

0+50

0+04 EC of curb ret.

+60 E = 00 ahead E Line 45°-11'

+52 E line of inlets

+48 E curb line

+30 East of 45°-11'

356.51

351.93 4.58 CB

351.3 5.2 24

351.3 5.2 12 J-

351.4 5.1

351.3 5.2 12 J-

351.2 5.3 25 J-

351.69 4.3 CB

352.12 4.19 24

351.4 5.1

351.6 4.9 12 J-

351.6 4.9

351.4 5.1 12 J-

351.3 5.2 25.6

351.83 4.68

352.34 4.17 CB

351.6 4.9 24

351.8 4.7 12 J-

352.0 4.8

351.7 4.9 12 J-

351.3 5.2 25.6

351.97 4.54 CB

352.46 4.05 24.4

351.73 4.78 2

351.96 4.55 12 J-

352.13 4.38

351.86 4.65 12 J-

351.35 5.16 25.9

352.11 4.40 CB

351.42 5.09 28.3

351.16 5.35 30.2

352.35 4.16 CB

351.87 4.64 40

351.83 4.68 24

352.01 4.60 12 J-

352.16 4.35

351.96 4.55 12 J-

351.51 5.00 25 J-

351.56 4.95 40 J-

352.07 4.44 CB

352.45 4.06 40

351.99 4.52 24

352.18 4.33 12 J-

352.21 4.30

352.02 4.49 12 J-

351.65 4.36 25 J-

352.10 4.41 40

356.51

2+00 drive Rt 11 Wide

1+93

1+47.05 BC of 2' curb

1+45.05 alley

1+25.05 alley

1+23.05 BC of 2' Rot

51

356.5 ft

350.72 5.79 25- 351.75 4.96 32

351.48 5.03 C6 350.7 5.8 24 351.0 5.5 12.5- 351.1 5.4 351.1 5.4 12 J- 350.9 5.6 2J- 5- 351.33 5.18 C6

351.70 4.81 C6 351.0 5.5 23.8 351.1 5.4 351.46 5.05 25.5 C6

351.75 4.76 26 351.3 5.2 351.2 5.3 24 351.3 5.2 12 J- 351.6 4.9 351.3 5.2 12 J- 351.73 4.78 HP Conc 351.2 5.3 25.5 352.26 4.2J- 50 351.2 5.3 27.5- 351.55 4.96 C6

352.23 4.28 50 Conc Par 351.82 4.69 C6 351.69 4.82 39.5 Par

351.82 4.69 C6 26 351.4 5.1 351.4 5.1 24 351.4 5.1 12.5 351.7 4.8 351.4 5.1 12.5 351.3 5.2 25.5 351.3 5.2 27.5 351.65 4.86 27.5- C6

351.80 4.71 C6 351.1 5.4 23.9 351.61 4.90 C6 351.1 5.4 25J-

51

356.5 ft

351.96 4.55 50 351.55 4.96 39.9 conc

351.46 5.05 39.6 R conc 351.86 4.65- conc

352.21 4.30 50 351.96 4.55- C6 351.77 4.74 40 conc

352.28 4.23 50 alley conc 352.07 4.44 C6 351.90 4.61 40 Conc alley

+12E curb line

7+7E grid of drain

2+70.4 W Line Chamoune

2+66 BC of curb ret

2+50

2+13. 10' wide Drive

351.20 350.68 350.45 350.59 350.56 350.57 350.44 350.34 351.00
5.31 5.83 6.06 5.92 5.95 5.94 6.07 6.12 5.51
40 24 12.5 12.5 40 66

350.27
6.24
29
grid

350.06
6.45
29.3
grid

351.08 350.36 350.81 350.86 350.73 350.33 351.11
5.43 6.15 5.70 5.65 5.78 6.18 5.40
CB 24.4 12.5 12.5 25.7 CB
grid

351.14 350.5 350.6 350.8 350.7 350.5 351.08
5.37 6.0 5.9 5.7 5.8 6.0 5.43
CB 24 12.5 12.5 35.5 CB

351.20 350.5 350.8 350.9 350.9 350.6 351.07
5.31 6.0 5.7 5.6 5.6 5.9 5.44
CB 23.7 12.5 12.5 25.5 CB

350.79 351.51
5.72 5.00
25.5 32.5

51
356 ~~50~~

51
~~356~~ 350

1+00

T.P. 5.56 357.98 4.09 352.42

1+92 drive Rt 9 wide

1+62 driveway 12' wide 24 Lt

0+50

60E = E Line Chamoune
= 0+00 ahead.

52E

48'E curb Line

30E ℄ Chamoune

356.51

352.52 5.46 24

351.9 6.1

352.0 6.0 12.5-

352.0 6.0

352.0 6.0 12.5-

351.7 6.3 25.3

352.46 5.52 .06

357.98

351.71 4.80 25-2

352.52 3.99 32.5

352.41 4.10 33

351.75 4.76 24

352.05 4.46 .06

351.6 4.9 23.8

351.7 4.8 12.5

351.7 4.8

351.7 4.8 12.5

351.5 5.0 25.3

352.08 4.43 .06

351.74 4.77 .06

351.19 5.32 24

351.51 5.00 12.5-

351.49 5.02

351.31 5.20 12.5

351.23 5.28 25.5

351.69 4.82 .06

grid of catch basin 5.66

351.80 4.71 .06

351.26 5-25 40

351.22 5.29 24

351.25 5.26 12.5

351.12 5.39

351.16 5.35 12.5

351.08 5.43 25.5

350.61 5.90 40

351.64 4.87 .06

351.46 5.05 40

351.15 5.36 23.5

351.15 5.36 12.5

351.06 4.45

351.10 5.41 12.5-

351.22 5.29 23.5-

351.21 5.30 40

356.51

1+95 ℄ 20' Drive way

1+85 20

1+47.06 BC of curb 2" Rad

1+45.06 alley East

1+25.06 alley

1+23.06 BC of 2" Radius

98
357.99

353.5
4.5
40
dirt

353.01
4.97
CG
10

353.53
4.45
332

352.60
5.38
24

353.23
4.75
CG

352.6
5.4
24

352.8
5.2
12.5

352.8
5.2

352.9
5.1
12.5

352.8
5.2
24.5

353.8
4.2
26

354.4
3.6
40

352.95
5.03
CG

352.3
5.7
24.1

353.17
4.81
40.

353.00
4.98
CG

352.8
5.2
26

352.5
5.5
24

352.7
5.3
12.5

352.7
5.3

352.5
5.5
12.5

352.2
5.8
23

352.9
5.1
26

353.0
5.0
36

353.9
4.1
40

358.0
5.0
40

352.80
5.18
CG

352.6
5.4
26

352.78
5.20

352.3
5.7
24

352.2
5.8
24

352.4
5.6
12.5

352.5
5.5

352.4
5.6
12.5

352.0
6.0
25.3

352.4
5.5
25.5

352.65
5.33
25.3
CG

352.1
5.8
7.5

352.71
5.2
CG

352.87
5.1
39.6

352.9
5.1
40

98
357.99

Orange

BM 405 353.93 ~~.94~~ 35394

30 E

12 E curb line

2+70 12 W Line 46th St

2+66

357.98 ~~.99~~

from Highland to 46

46th St

353.69	353.70	353.73	353.71	353.71	353.65	353.62
427	428	425	427	427	433	436
40	24	12 5		12 5	25	40

353.91	353.32	353.53	353.67	353.70	353.54	353.23	353.03	353.63
407	466	445	431	428	444	475	495	435
CB	40	24	12 5		12 5	25	40	CB

353.96	353.32	353.56	353.67	353.41	352.96	353.64
402	466	442	431	457	502	434
CB	24.1	12 5		12 5	24.9	CB
	0					

353.92	353.3	353.5	353.6	353.5	353.0	354.4	354.2	354.7
406	407	445	434	45	50	36	33	33
CB	24	17 5		12 5	24	26	37	40

357.98 ~~.99~~

12-23-49
Hendricks
Johnsen
Greer
Cota

Profile of Calle De La Plata from Dorado to Calle De La Plata

These profiles to Determine amount of Paving to be replaced due to settlement in placing Sewer.
See P57 for Grades of Improvement.

1+00

0+75

0+50

0+25

0+00

0-17 Sewer MH.

BM 2.41 9.99 (7.58 Assumed)

G H		K on Sub grade Stake		G R t
5.33	5.5	5.38	5.2	5.27
+6.6	+7	+6.1	+8	+7.2
15	2		2'	15
5.45	5.6	5.52	5.4	5.56
+5.4	+6	+4.7	+6	+4.3
15	2'		2'	15
5.62	5.7	5.66	5.2	5.57
4.37	+3	+3.3	+7	+4.2
15	2		2	15
5.71	6.1	5.76	5.5	5.86
4.28	3.9	+2.3	+6	+1.3
15	2		2	15
5.85	6.1 6.1	5.82	5.6 5.6	6.16
4.15	3.9 3.9	+1.7	+3 +3	3.83
15	10 2		2 10	15
5.90	6.0	6.04	6.0	6.32
+1.0	+0	3.95	+0	3.67
15	10	Rim MH	10	15

NE BP Dorado & La Plata

Cont'd from p. 53.

	G Lt.		℄ on subgrade stage		G Rt.
2+50	4.50	4.8	4.56	4.8	4.59
	5.49	5.2	5.43	5.2	5.40
	15	21		21	15
2+25	4.59	4.8	4.70	4.9	4.80
	5.40	5.2 5.2	5.28	5.1	5.18
	15	7 2		21	15
2+00	4.71	4.8	4.84	4.6	4.80
	5.29	5.0 5.2	5.15	5.4	5.19
	15	8 2		21	15
1+75	4.99	5.0	4.97	5.1	5.02
	5.00	4.8 5.0	5.02	4.9	4.97
	15	7 2		21	15
1+50	4.90	5.9	5.10	5.2	5.18
	5.09	4.8 5.1	4.89	4.8	4.81
	15	7 2		21	15
1+25	5.24	5.2	5.25	5.1	5.22
	4.75	4.6 4.5	4.74	4.9	4.77
	15	7 2		2	15

9.99
7

Cont'd. from P 54

	G		℄ on Subgrade State		G
4+00	358 6.1 15	35 6.5 2	362 6.37	36 6.4 2	360 6.39 15
3+75	387 6.2 15	39 6.1 2	380 6.18	38 6.2 2	374 6.25 15
3+50	395 6.04 15	39 6.1 2	403 5.96	39 6.1 2	397 6.02 15
3+25	412 5.87 15	39 6.1 2	418 5.81	39 6.1 2	426 5.73 15
3+00	428 5.71 15	44 5.6 2	429 5.70	43 5.7 2	431 5.68 15
2+75	445 5.54 15	46 5.4 2	444 5.55	45 5.5 2	456 5.43 15

9.99

Contd. from p. 55

See P 57 for Grade of Improvement.

4+45 BC Cb Rel Lt.

353	37	352	38	394
646	63	647	62	605
15	9		10	15

4+25

350	38	356	33	389
649	62	643	67	610
15	10		5	15

4+10 BC Cb Rel Rt

355	31	358	33	377
644	69	641	67	627
15	2		2	15

9.99

Grades of Improvement
La Plata St.

		G Lt.		℄	G Rt.
			1/4		
4+45	BC Cb. Ret. Lt.	3.49		3.86	3.92
4+25		3.54		3.88	3.93
4+10	BC Cb. Ret Rt.	3.58		3.90	3.93
4+00		3.64	3.83	3.93	3.93
3+75		3.78	4.00	4.11	4.04
3+50		3.92	4.20	4.34	4.17
3+25		4.06	4.34	4.48	4.30
3+00		4.20	4.48	4.62	4.44
2+75		4.34	4.61	4.75	4.56
2+50		4.48	4.75	4.88	4.68
2+25		4.63		5.02	4.81
2+00		4.77		5.15	4.94
1+75		4.91		5.29	5.07
1+50		5.05		5.42	5.20
1+25		5.19		5.56	5.33
1+00		5.33		5.69	5.46
0+75		5.48		5.83	5.59
0+50		5.62		5.97	5.72
0+25		5.71		6.09	5.88
0+17	EC Cb. Ret. Lt.	5.75			
0+00	EC Cb. Ret Rt.	5.84		6.15	6.16
0-17		5.89		6.04 Rim 17H	6.32

Survey along ℄ of Road Shown on Misc. Map # 213

By W.L. Bauer

10+08.08 = Pin = P.I. - Ang. 55° 25' 45" Rt.

7+45.36 = Hub. - .03 W. of ℄ - Pins - 25' from Hub.

6+54.66 = City Mon. 0.27 West. of ℄
(330.14 W. of Cor. - B. 1799 - P. 39) also see Ties to
2" Pipes to W.

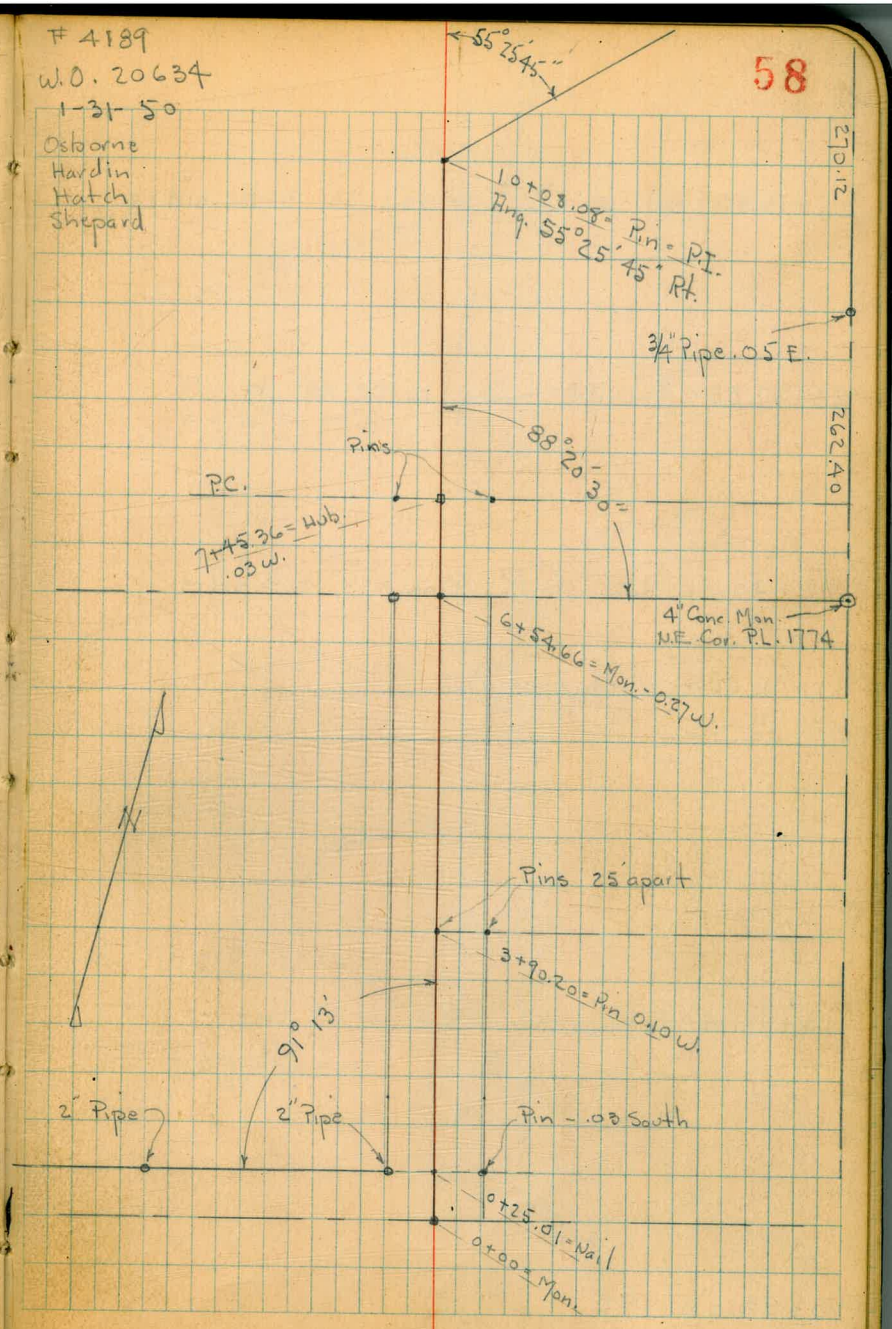
3+90.20 = Pin - 0.10 W. of ℄

Pins Noted are - 3/4" Diam. Iron ø

0+25.01 - Int. with Line Thru 2" pipes
0+00 = city Mon. - Replacing Pipe shown on Misc. Map # 213
See B. 1799 - P. 39 & B. 1849 - P. 58

4189
W.O. 20634
1-31-50
Osborne
Hardin
Hatch
Shepard

58



25+13.86 - Hub at E.C. - Pins - 25' Both sides

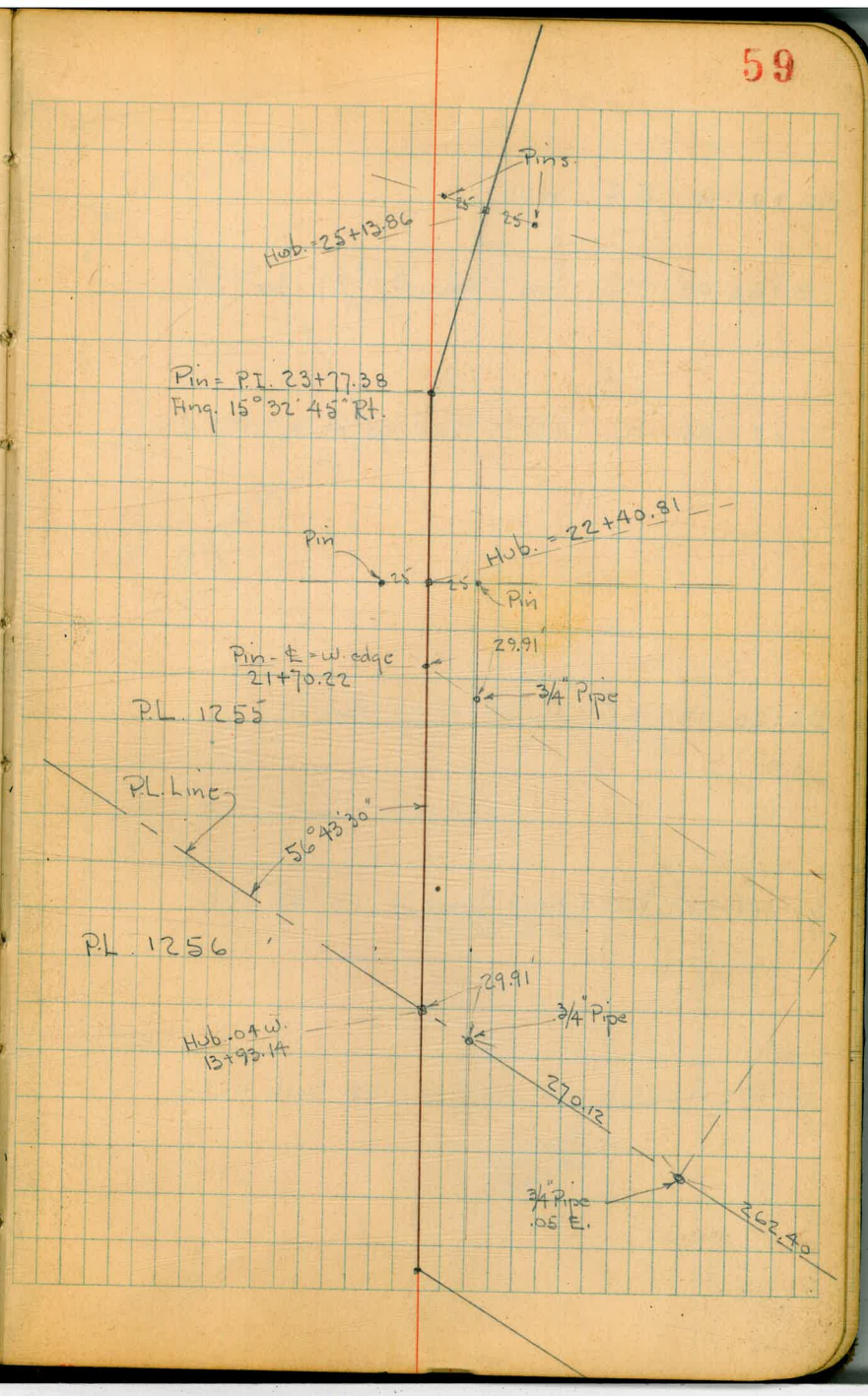
23+77.38 = Pin - P.I. - Ang. 15° 32' 45" Rt.

22+40.81 = Hub. at P.C. Pins - 25' Both sides

21+70.22 = W. edge of Pin

13+93.14 = Hub. .04 W. of ℄ - on P.L. Line

10+08.08 = P.I.



40 + 01.14 = E.C. = Hub.

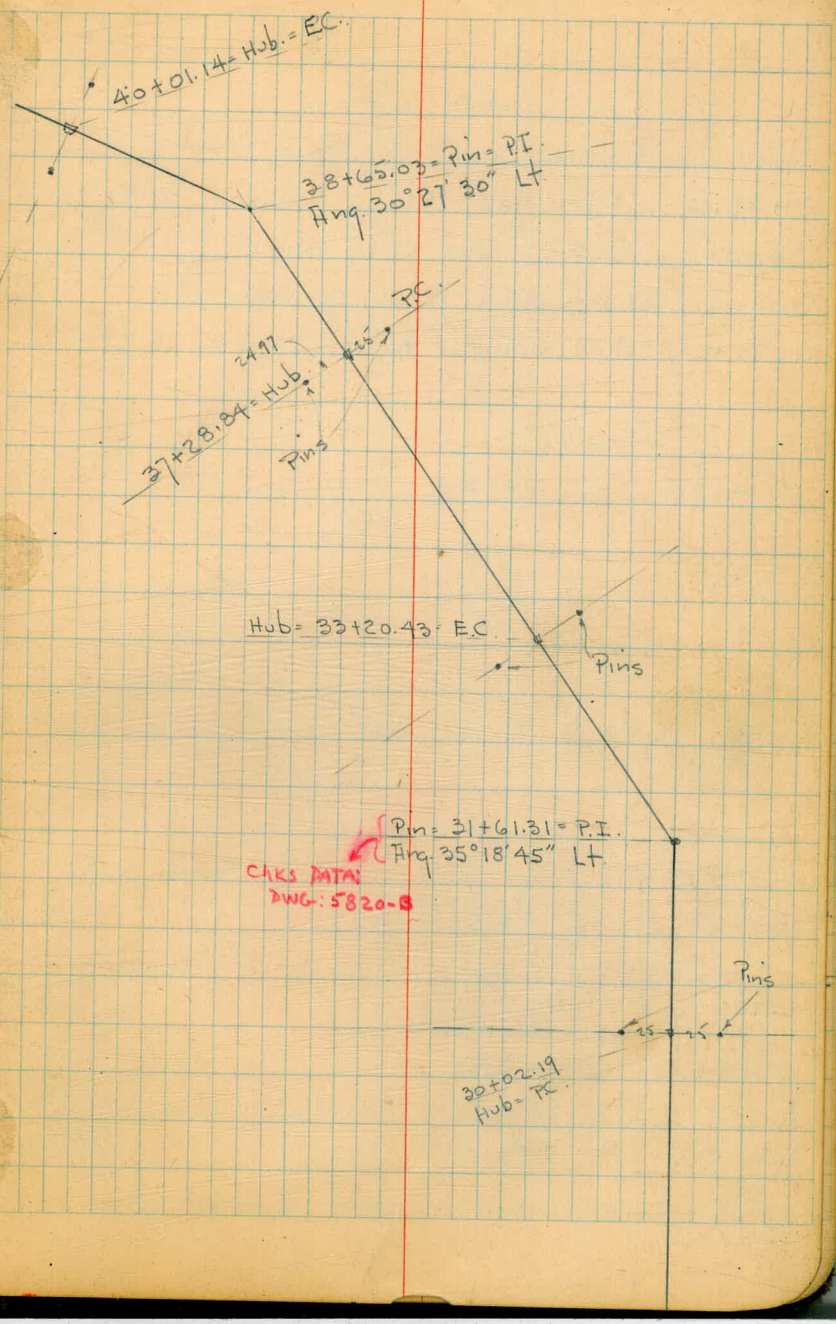
38 + 65.03 = P.I. = Pin - Hng. 30° 27' 30" Lt.

37 + 28.84 = P.C. = Hub. - Pins 25' Rt. & 24.97' Lt.

33 + 20.43 = E.C. = Hub. Pins =

31 + 61.31 = P.I. = Pin - Hng 35° 18' 45" Lt.

30 + 02.19 = Hub - P.C. Pins - 25' Both sides



apart along Boundary of Tract #1 - Ang. 67° 39' 30" Bet. chord + Bound.

53+47.76 = Set Hub Midway Between Pins - 53.03

53+10.20 = Set Hub - P.C. Ang. 3° 26' 15" Rt.

53+01.09 = Set Hub. on E.C. Midway bet. Pins

51+98.42 = Set Hub on Int of Tangents - Ang. 46° 42' Lt.

50+94.75 = Set Hub Midway Between Pins

47+87.25
Fd. Pins - Set Hub Midway Between

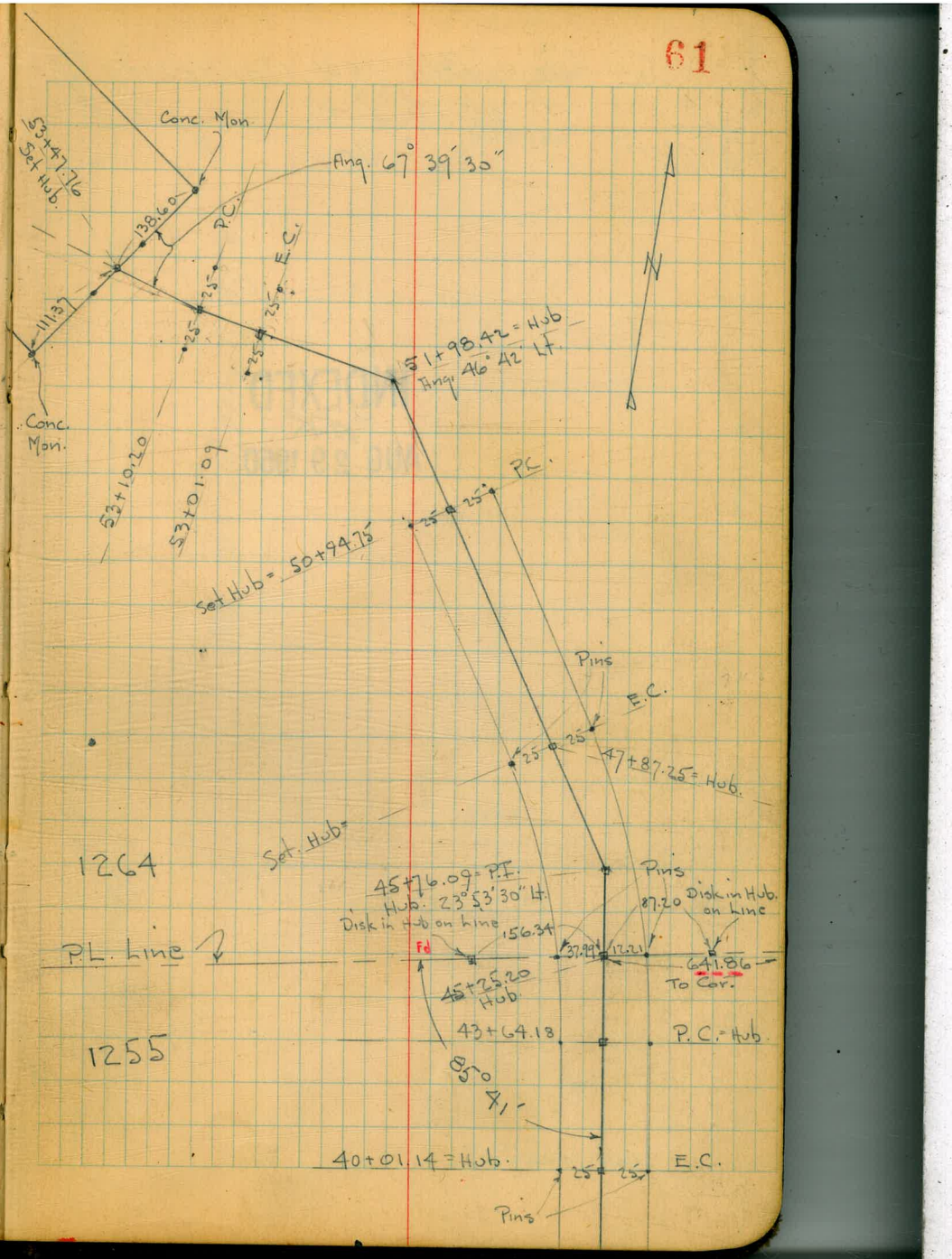
45+76.09 = P.I. = Set Hub. on Int. of Tangents
Ang 23° 53' 30" Lt.

45+25.20 = Hub. on Int. of Tang. & True P.L. Line
641.86 To 3"X3" Post. - Nail in Top.
Pin 37.99 Lt. - .065. - Pin - 12.21 Lt. - .025

43+64.18 = P.C. = Hub. -

Prod. & N. from 38+65.03 Thru this Hub to int. for P.I.
Bauer Must of Ran along Side Lines

40+01.14 = E.C. = Hub. - Pins = 25' Both Sides



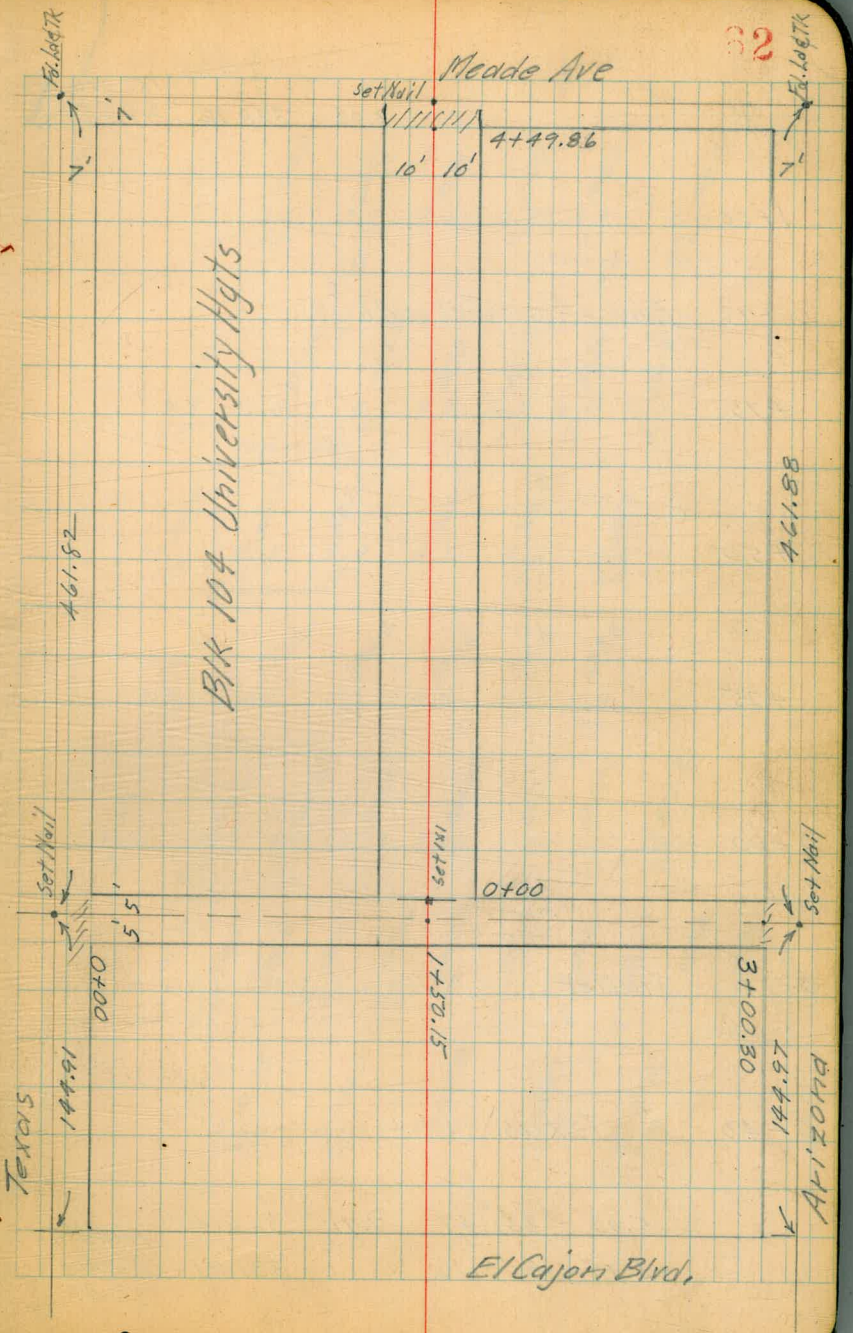
X Sec Alley Blk 104 University Hts

Begg
Johnson
Allen

25 Aug 50

W.O. ?

INDEXED
WK.
AUG 29 1950



	℄		3.29	328.18	1X1 Stk. @ 100 N&S Alley
1+00					
+92	End of parallel walk				
+75					
+50					
+25					
0+00	℄				
0-14	Gutter				
0-40	℄ Texas				
		5.02	331.47	7.71	326.45	Texas & Meade SEBP
		2.75	334.16		331.41	

Lt. N.

Rt. ℄

63

327.9 3.6 20 | 327.8 3.7 5 | 328.6 3.6 | 327.7 3.8 5 | 328.3 3.2 6 Conc. Ap. | 329.12 2.35 20 Conc.

327.86 3.61

327.6 3.9 15 | 327.65 3.61 6.7 Edge par. Wlk | 327.7 4.0 5 | 327.3 4.2 | 327.5 4.0 5 | 328.7 2.8 10 | 328.8 2.7 20

327.4 4.1 15 | 327.47 4.00 6.7 Edge par. Wlk | 327.1 4.4 5 | 326.9 4.6 | 326.9 4.6 5 | 327.9 3.6 20

327.7 4.3 15 | 327.12 4.35 6.9 Edge par. Wlk | 326.6 4.9 5 | 326.6 4.9 | 326.6 4.9 5 | 327.3 4.2 20

326.8 4.7 20 | 326.64 4.83 6.9 Edge 2° parallel Wlk | 326.35 4.92 4.6 Cb | 326.18 5.34 4.6 Gut | 326.65 5.42 | 326.12 5.35 5 Gut | 326.47 5.00 5 Cb | 326.3 5.2 20

327.36 4.11 100 66 | 326.73 4.79 100 Gut | 326.67 4.80 50 Cb | 326.18 5.29 50 Gut | 326.28 5.19 4.6 Cb | 325.59 5.38 4.6 Gut | 325.53 5.94 | 325.49 5.98 5 Gut | 326.21 5.26 5 Cb | 325.12 6.35 41 Gut | 325.76 5.71 41 Cb | 324.61 6.86 90 Gut | 325.16 6.31 90 Cb

326.85 4.62 100 | 326.30 5.17 50 | 325.72 5.75 | 325.12 6.35 50 | 324.66 6.81 100

331.47

X Sec Alley Blk 104 University Hts.

1+98 end bldg 11.1 R

1+97 ℄ P Pole 4.4 PA 2450

1+59½ 7.6 L beg Picket fence

1+50 45 ℄ ~~Cross~~ T Alley

1+38 ℄ P Pole 3' R PA 2450

1+25

1+16

7.5 R 335.70 338.18

328.2
7.5

330.7
5.0
5

332.2
3.5
8

327.9
7.8
5

327.8
7
9

329.7
6.0
5

330.14
5.5-6
6

330.74
4.76
10.5
Bldg

327.8
7.9
5

327.9
7
8
335.70

328.16
7.54
6
apron
conc

328.74
6.96
12

2+57 Beg House 7° R

2+45 ℄ 5.3 Wide Walk

2+50 7 ○ Lt Beg House

2+33 ℄ garage Sing Rt 8.6

2+17 end of fence 6.2 Lt

2+06

10 44 338.62

7.52 328.18

2+00

335.70

332.53
6.09
7

331.97
6.65
10.2
E W Walk
2.5 wide

331.4
7.2
5

331.2
7.4

331.3
7.3
5

331.96
6.66
8.6

331.1
7.5
25

330.9
7.7
7

330.5
8.1
5

330.5
8.1

330.5
8.1
5

330.5
8.1
10

330.9
7.7
25

338.62

330.5
5.2
7

330.1
5.6
5

330.1
5.6

330.2
5.5
3

330.7
5.0
5

333.0
4.7
10

333.1
2.6
5.0

335.70

X Sec Alley Blk 104 University

3+14.30

3+00.30 Prop Line on Asphalt Paving

2+90 beg Wall 4.7 Rt
7.3 Rt end of house

2+78 beg Wall 5.8
end of House 7.0 Lt

2+60

338.62

HJ Contd E & W Alley

338.46 337.85 337.82 337.72 337.73 337.72 338.27
0.16 0.77 0.80 0.90 0.89 0.90 0.25
C6 9 4.7 5 7 C6
7 7 9

Tot

338.35 338.45 338.04 338.07 338.35
0.27 0.57 0.56 0.55 0.27
C6 4.7 5.0 C6
4.7

338.2 336.0 335.6 338.97
2.4 2.6 3.0 +0.35
4.7 7 Top of Wall

334.5 334.2 334.2 334.0 334.0
4.1 4.4 4.4 4.6 4.6
7 5 5 7

333.1 333.0 332.3 332.2 332.4 332.6
5.5 5.6 6.3 6.4 6.2 6.0
7.1 5 3 5 7

338.42

X Sec Alley Blk 104 University Hts.

1+50 13½ end wire fence beg wire fence 10R

1+00 beg woven wire fence 13.0 Lt.

0+89 10 3 Lt PP Pole AH323

0+62 10.4 Lt dead man

0+50 end of fence 9.3 R Alley

0+28 9.9 5 R end rubble wall

0+15 N 4

0+02 9.5 R. beg picket fence
rubble cement wall under fence

0+00 T INTERSECTION

9.0 H 337.22 328.18

67

329.2	330.2	331.0	331.6	331.9
8.0	7.0	6.2	5.6	5.3
20	10		10	35
329.0	329.3	329.6	330.6	332.6
8.2	7.9	7.6	6.6	4.6
25	10		10	20

328.9	329.8	329.9	329.5	329.5	330.0
5.3	7.4	7.8	7.7	7.7	7.2
20	10		9.3	10	20

328.5	328.9	329.3
8.7	8.3	7.9
10		10

328.1	328.2	328.6
9.1	9.0	8.6
10		10

337 22

2+50

2+45 ℄ S. gar 17° R

2+33 10 ℄ P Pole PA 4353

2+09 ~~Single~~ Double garage 17.1 R.

2+02 end Picket fence 10.2 R

2+00

1+75 fence picket.

1+70 Single gar 9.9 R.

1+55 ℄ 3' conc wall 10 R.

337.22

331.8
5.4
20

332.8
4.4
10

333.6
3.6

333.7
3.5
10

334.10
3.12
17

333.90
3.32
17.1

331.0
6.2
25

331.5
5.7
10

332.4
4.8

332.5
4.7
10

331.50
5.42
9.9

331.69
5.53
10

337.22

Alley Blk 104 University Hts

4+00 73.3 Lt wire fence

3+84 }
3+73 } 10 R 5 stumps
3+73 } 14 R. To 33 R apron 3 wide floor 4.64
3+50 13 R cypress

3+46 10.5 Lt Pole JPA 4369
3+46 end of 4 car garage 16.2 Lt

TP 5-24 339.90 256 334.66

3+33 ℄ S gar 17 R

3+13 ℄ S gar 17 R

3+04 ℄ S gar 17 R

3+03 beg 4 car garage 15.8 Lt

3+00

337.52

334.4
5.3
25

335.1
4.8
10

4.8

335.4
4.5
10

4.5
30

335.02
4.88
14
apron
gar 4.6 4 Rad

335.12
4.78
33

334.0
5.9
25

334.5
5.4
10

334.7
5.2

5.4
10

333.96
5.94
16.2

339.90

334.32
2.90
17

334.37
2.85
17

334.37
2.85
17

333.79
3.33
15.8

332.8
4.4
25

334.1
3.1
10

334.3
3.3
9

334.2
3.0
10

337.22

Alley Blk 104 University Hts

−8.49
SE BP 331.41 331.41

Texas & Mead

× ? ×
+16 curb line

4+49.86 Prop Line Meade

4+46 & 48 10.4 ft. 2 Palms

339.90

Cont'd.

334.24
5.66
10

334.39
5.51

Par

334.77
5.53
10
9

334.71
5.19
46

334.62
5.28
10.0
9 Lt

334.54
5.36

Par

335.06
4.84
10.2
17
9

335.26
4.64
46

339.90

Calle Corta
Proposed sewer.

3-13-52

W.O. 62248

Sommermeyer
Begg
Oltman

not check each other.

● = Fd. L+T. Note- Tacks on Calle Corta do

Used data on sheet 17-1 (Ref. 3124-B)

4+35.95 - End of line

2+78.91 : Δ 17°-21' Lt.

2+78.70 = P.C.T.

2+32 = End ½-1" thick oil + rock

oil + rock.

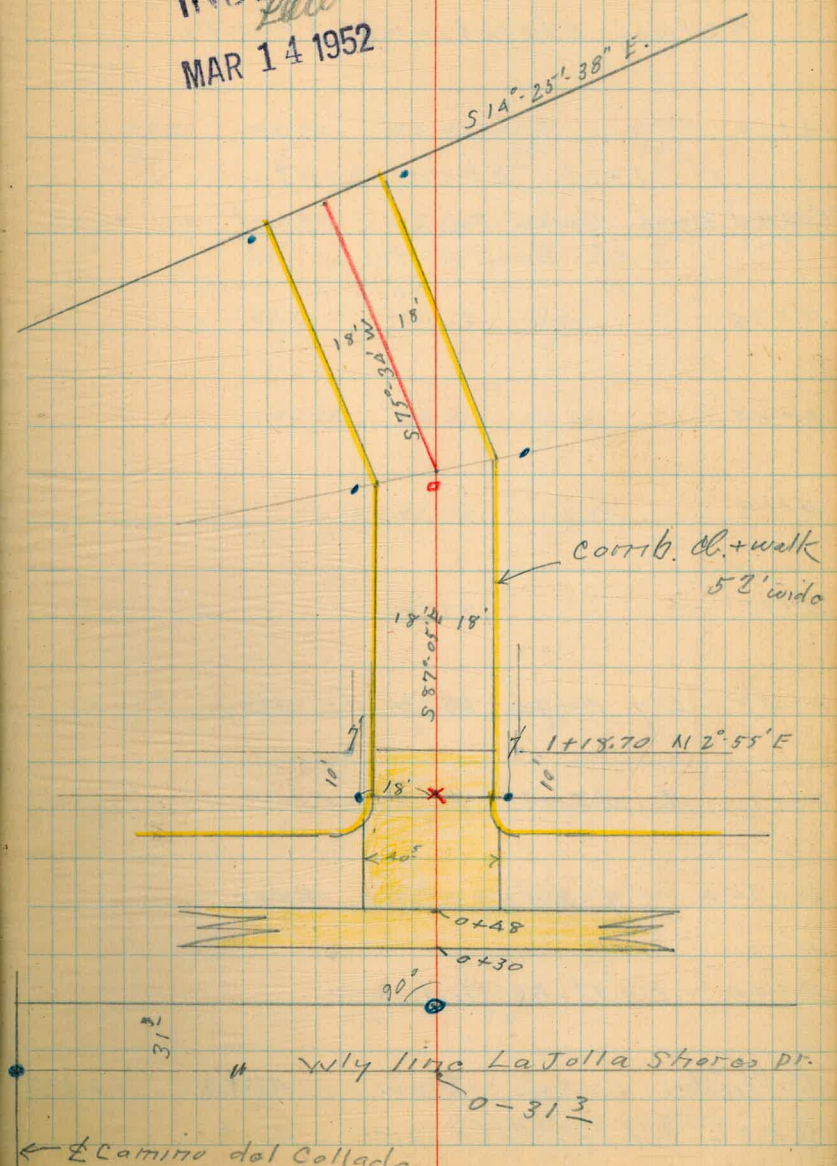
1+19 = end Conc. Pave. + start ½" to 1" thick

La Jolla Shores Dr.

1+08.70 = Cross in Pave. Ely. 10' line

Shores Dr.

0+00 = Existing M.H. Calle Corta + La Jolla



Calle Corta
Levels

Direct Elev. rod used.
Actual elevations shown.

47.49

1+50

1+19 = rock skim coat.
end Conc. Pave. + start a/l +
Cb. denotes top of Cb
" " back of walk

0+96

0+80

0+58

0+53

0+48 Ely edge 18' wide strip Pave.

0+39 ℄ 18' strip pave.

0+30 = Wly edge Conc. Pave

0+00 = Existing M.H.

B.M. #1. Elev. = 42.94

B.M. #2 N.E. Lrt. Calle Corta . 43.83

	45.93 20' W	45.77 15' ℄	45.43	45.32 15' ℄	45.50 20' W	
44.11 20' W	43.97 15' ℄	43.77 5'	43.75	43.60 5'	43.46 15' ℄	43.66 20' W
		42.70 5'	42.59	42.46 5'		
		42.92 5'	42.81	42.68 5'		
		42.78 5'	42.70	42.52		
			42.64			
		42.85 5'	42.80	42.61 5'		
		42.89 5'	42.81	42.65 5'		
		42.74 5'	42.65	42.57 5'		

40.63 Rim 31.93 IE

U.S.G.S. Plate Ctr. S.W. Ref. La Jolla Shores Drive + Calle Cortada
(also - P.18)

Calle Corta

4+35.25 18'± Lt.+Rt. = end curb + walk.

4+00

3+50

3+00

2+78.91 = Δ 17°-21' Lt. (see sketch data - sheet 17-)
Sect. on split

2+50

2+32 = End oil + rock skim coat.

2+20 Put here

2+00

2+20 Extra Section

61.02 20' W | 60.89 Top. ct. | 60.3 | 60.85 Top. ct. | 61.05 20' W

58.8

56.86 20' W | 56.68 15' ct. | 56.4 | 56.67 15' ct. | 56.80 20' W

53.6

53.64 20' W | 53.48 15' ct. | 52.4 | 53.26 15' ct. | 53.37 20' W

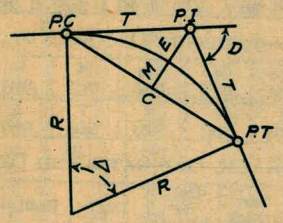
50.9

49.9

48.2

50.21 20' W | 50.00 15' ct. | 49.3 | 49.56 15' ct. | 49.59 20' W

DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES



CURVE FORMULAS

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

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

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

External=E=Ttan$\frac{\Delta}{4}$-(7)=R÷cos.$\frac{\Delta}{2}$—R(8)=Rexsec$\frac{\Delta}{2}$(9)

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

EXPLANATION AND USE OF TABLES

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

Offsets.—Tangent offsets vary (approximately) directly with D and with square of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent offset for 100 ft.=7.27 ft. Distance=158—Sta. P. C.=54.50, hence offset=7.27 $(54.50\div100)^2$=2.16 ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(54.50)^2\div(2\times688.26)$=2.16 ft.

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

Externals.—May be found in similar manner to tangents. Thus E for curve above is 115.37. For from Table IV for 1° curve E=960.6 for 8° 20′=960.6÷8⅓=115.27 and from Table V correction=.10 or E=115.37 ft. Or suppose Δ=32° and E is measured and found to be 42 ft. What is D? From Table IV E=230.9 and ÷42=5.5 or D=5° 30′.

0-11.16

9+03.06

899.8
3.4
9+03.2

11.25

11+28.6

Ocaso Bet.
Del Oro & Frescota
on W.

6+54 - 15° 11

7+87.67 - 4° 50

9+17.07 - 11° 51'

11+34.66 - 15° 31'

5+1473
4+65 67
9 8040
1928
9 6112
5+553
3 595
C+L 48
12 87
48
1340

536.0
443
247
1226 -

10-31 Hendricks
R.E. 4847
56.78'
25'
N 80°55'40" W

US. C+G 26.22 = Top wall - By Bldg

Floor - Basement 18.80

4153
83
4070

999
355
644

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9+(20—16)÷2 or 2 ft. added to 41.9 =43.9. For slopes of 1 on 1 see inside of front cover.