1398.

College Way Ext.

by Chas. Walker esq.

Our Leather Bound Engineers Note Books are carried in the following rulings:

No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.

No. 382 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 4 x 4 to the inch, Center Line Red.

No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 8x8 to the inch, Center Line Red.

No. 385 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 8 vertical and 4 horizontal lines to the inch, Center Line Red.

We also carry the Note Books listed above, bound in extra strong Fabri-Hide (otherwise the same quality of book), which can be furnished at a somewhat lower price.

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THE FREDERICK POST CO.

ENGINEERING and DRAFTING SUPPLIES

IRVING PARK STATION

CHICAGO, ILL.

Index

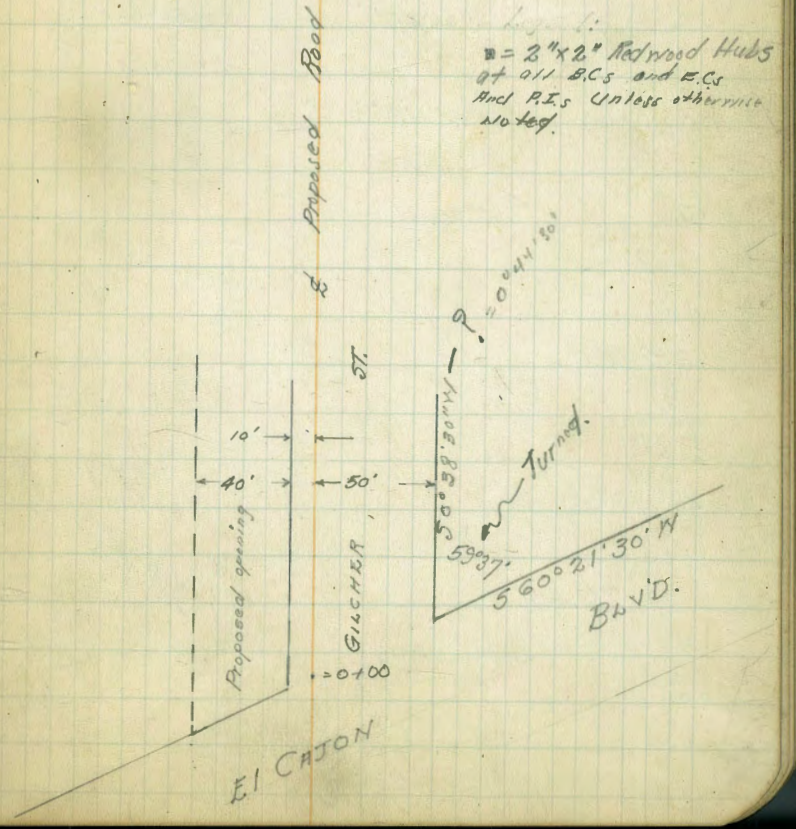
Walker
Wm Bliss
Drebert
Motloun
5-28-30

COLLEGE WAY EXTENSION

"LOCATION" - "ALIGNMENT"

Bet. El Cajon and Lemon Grove Blvd.

Station	Align.	Defln.	True Bearing	Curve Data.	Magnetic Bearing
5+00					
	773.40'				
4+00					
3+00					
2+00					
1+00					
0+00					



B = 2"x2" Redwood Hubs at all B.C.s and E.C.s and P.I.s Unless otherwise noted.

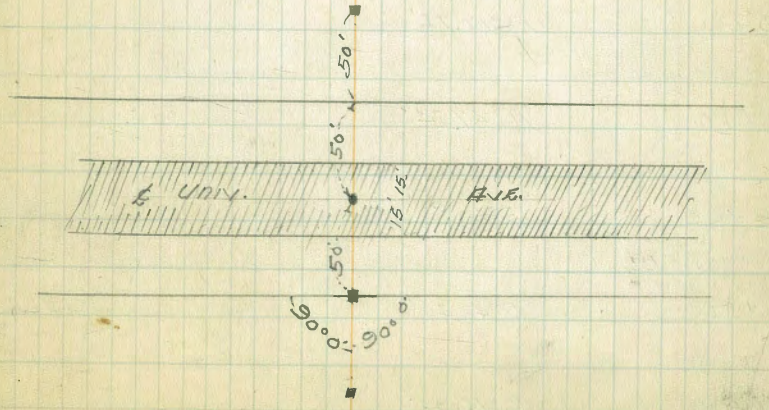
Station	Align.	Defln.	True Bearing	Curve Data	Magnetic Bearing
+50		5°23.63'			
11+00		4°40.66'			
+50		3°57.69'			
10+00		3°14.72'		Δ=25°01'40"	
				R=2000'	
+50		2°31.75'		T.T. 443.90'	
				L=873.63'	
9+00		1°48.78'			
+50		1°05.81'			
8+00		0°22.84'			
+73.40=	B.C.	Lt.			
7+00					
	773.40'				
6+00					

Station	Align.	Defl'n.	True Bearing	Curve Data	Magnetic Bearing
	1259.85'				
17 +00					
+47.03	= E.C.	13°30.83'			
16 +00		11°50.36'			
+67.81	= P.O.T.				
+50		11°07.39'			
15 +00		10°24.42'			
+50		9°41.45'			
14 +00		8°58.48'			
+50		8°15.51'			
13 +00		7°32.54'			
+50		6°49.57'			
+17.3	P.I.				
12 +00		6°06.60'			

Station	Align.	Deflin.	True Bearing	Curve Data	Magnetic Bearing
24+00					
23+00					
	1259.85'				
22+00					
21+00					
20+00					
19+00					
+29.75 = P.O.T.					
18+00					

Station	Align.	Defl'n.	True Bearing	Curve Data	Magnetic Bearing
+00.94	P.I.			$\Delta = 5°20'$	
30+00		1°20.03'		$R = 2000'$	
				$L = 186.17'$	
+50		0°37.06'		$T = 93.16'$	
+06.88 = B.C.		P.T.			
29+00					
28+00					
	1259.85'				
27+00					
26+00					
25+00					
+68.02 = P.O.T.					

Station	Align.	Defl'n.	True Bearing	Curve Data	Magnetic Bearing
+50		10°45.56'			
36+00		9°15.14'		Δ=55°30'	
				R=950.34	
+50		7°44.72'		T.=500'	
				L=920.55'	
35+00		6°14.30'			
+50		4°43.87			
34+00		3°13.40'			
+50		1°42.98'			
33+00		0°12.56'			
+93.25=B.C.		Lt.			
32+00					
+93.25					
	200.00'				
+43.25					
31+00					
+93.25=E.C.		2°40'			
+50		2°03.0'			



Station	Station	Align.	Deflin.	True Bearing	Curve Data	Magnetic Bearing
+50		715.99'				
36+00	+13.60 = E.C.		27°45.00'			
	42+00		27°20.28'			
+50						
	+50		25°49.86'			
35+0						
	41+00		24°19.44'			
+50						
	+50		22°49.02'			
34+0						
	40+00		21°18.60'			
+50						
	+50		19°48.18'			
33+0						
+93.	39+00		18°17.76'			
	+50		16°47.24'			
32+0						
+9	38+00		15°16.82'			
	+93.05 = P.I.					
+43	+50		13°46.40'			
31+0						
+93.	37+00		12°15.98'			
+50						

Station	Align.	Defln.	True Bearing	Curve Data	Magnetic Bearing
49+00					
48+00					
47+00					
	715.99'				
46+00					
45+00					
44+00					
43+00					

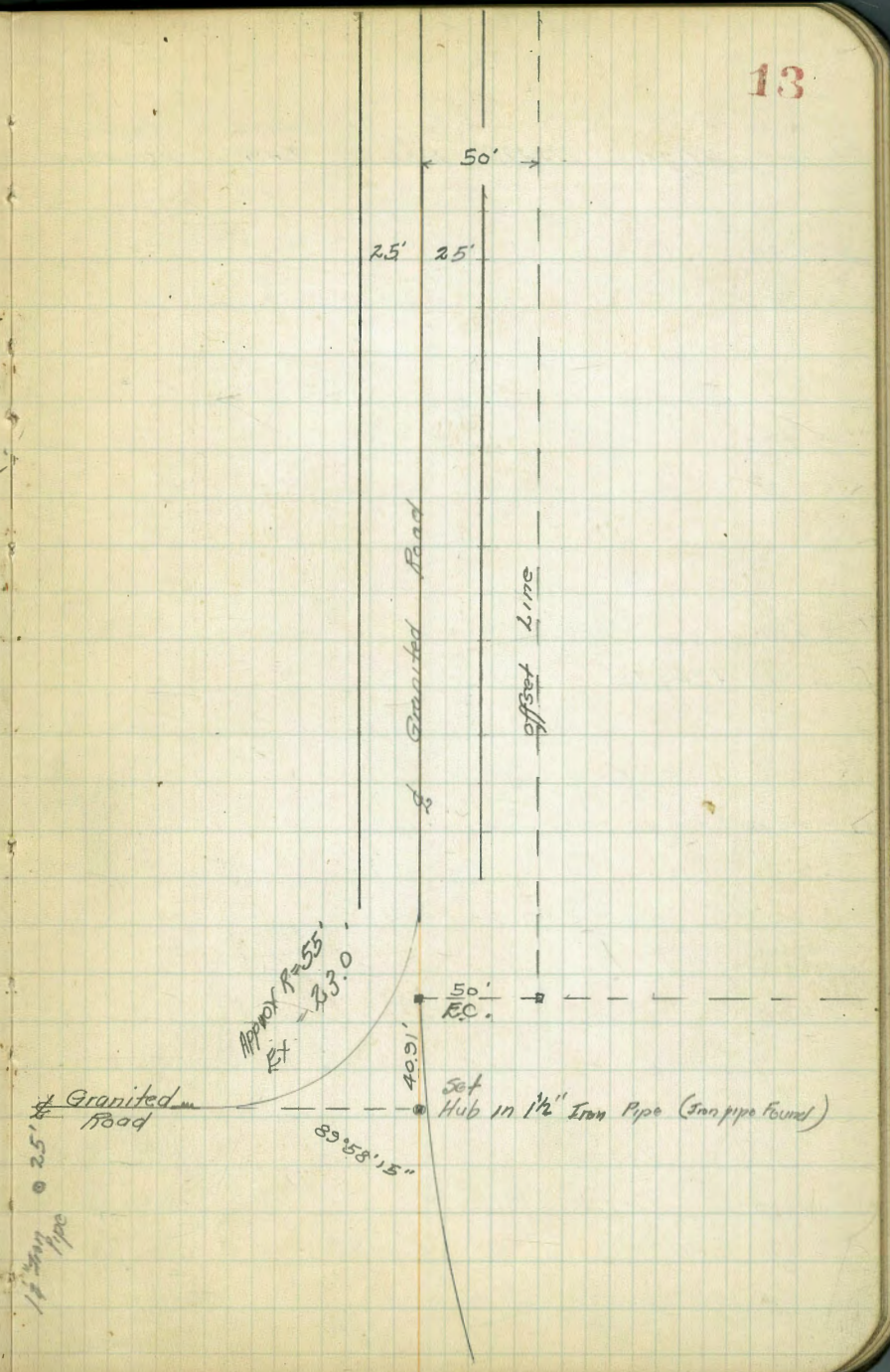
Station	Align.	Defln.	True Bearing	Curve Data	Magnetic Bearing
55 +00		18°10.41'			
+73.88=PI.					
+50		16°34.92'			
54 +00		14°59.42'			
+50		13°23.93'			
53 +00		11°48.44'		A=28°13'40"	
				R=900'	
+50		10°12.94'		T.T. 544.39	
				L=979.04	
52 +00		8°37.43'			
+50		7°00.94'			
51 +00		5°25.45'			
+50		3°49.76'			
50 +00		2°14.47'			
+50		0°38.78'			
+39.59=BC		Ft.			

Station	Alignment	Deflection	True Bearing	Curve Data	Magnetic Bearing
61+00					
	609.28'				
60+00					
+08.63 = E.C.		31°09.85'			
59+00		30°53.33'			
+50		29°47.84'			
58+00		27°42.35'			
+50		26°07.86'			
57+00		24°32.37'			
+50		22°56.88'			
56+00		21°21.49'			
+50		19°45.90'			

+00.56 = P.O.T

Station	Align.	Defln.	True Bearing	Curve Data	Magnetic Bearing
+50		3°19'46"			
C7+00		2°36.49'		Δ=13°45'	
				R=2000'	
+50		1°53.52"		S.T.=223.45'	
				L=445.06'	
66+00		1°10.55"			
+50		0°27.58'			
+17.91=P.C.		P.T.			
65+00					
64+00					
63+00					
62+00					

Station	Align.	Defl'n.	True Bearing	Curve Data	Magnetic Bearing
74+00					
73+00					
72+00					
	1846.76'				
71+00					
70+00					
+62.31 = E.C.		C°22.50'			
+50		C°11.34'			
69+00		5°28.37'			
+50		4°45.40'			
68+00		4°02.43'			



Station	Align	Defln.	True Bearing	Curve Data	Magnetic Bearing
80+00					
79+00					
78+00					
	1846.76'				
77+00					
76+00					
75+00					

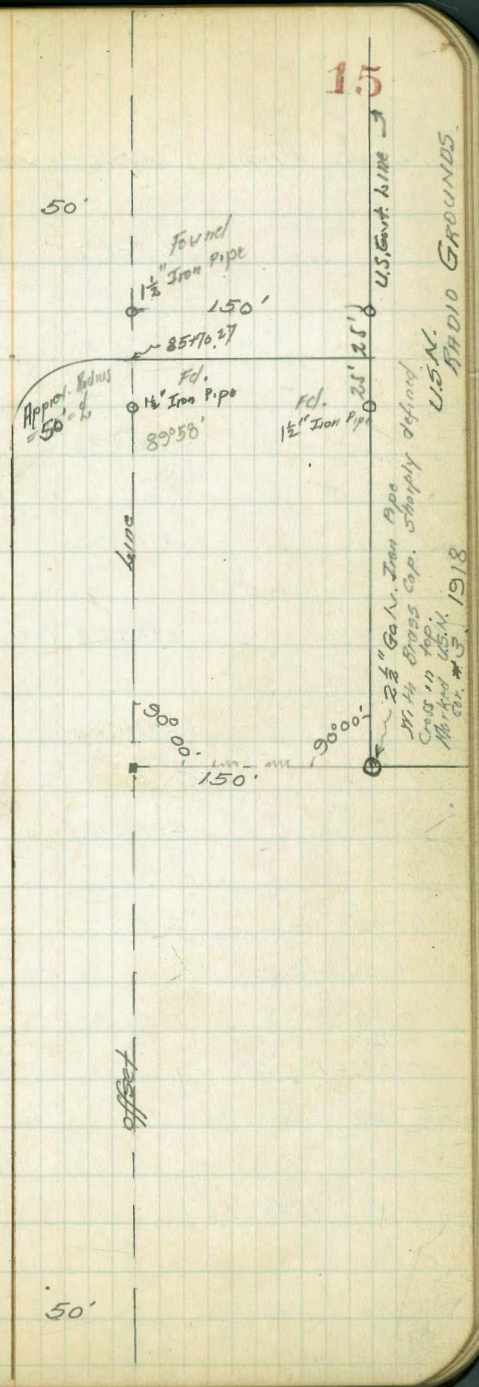
25' 25' 25'

℄ Existing Centerline Road to USN Radio Station

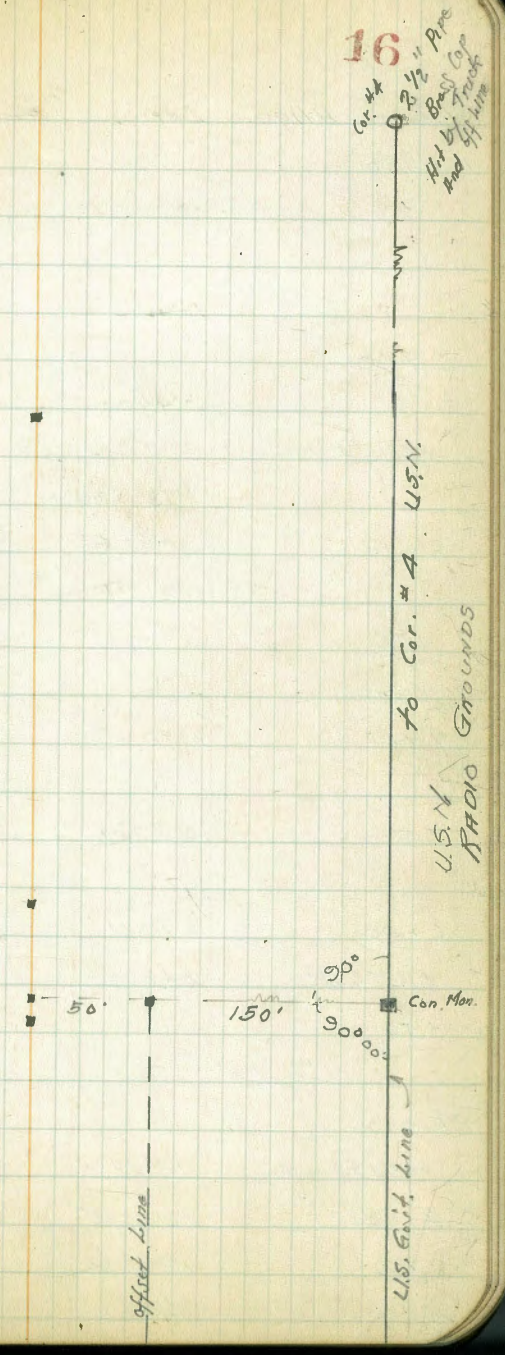
offset line

25' 25' 25'

Station	Align.	Defln.	True bearing	Curve Data	Magnetic Bearing
86 +00					
+70.27					
85 +00					
	1846.76'				
84 +00					
+60.13					
83 +00					
82 +00					
81 +00					



Station	Align.	Defln.	true Bearing	Curve Data	Magnetic Bearing
+50		12°36.74'			
92 +00		11°10.80'		Δ=36°46'	
				R=1000'	
+50					
+42.06 = P.I.		9°44.86'		T.=332.33'	
				L=641.70	
91 +00		8°18.92'			
+50		6°52.98'			
90 +00		5°27.04'			
+50		4°01.10'			
89 +00		2°35.16'			
+34.39 = P.S.T.					
+50		1°09.22'			
+10.31					
+09.73 = B.C. Lt.					
88 +00					
	1846.76'				
87 +00					

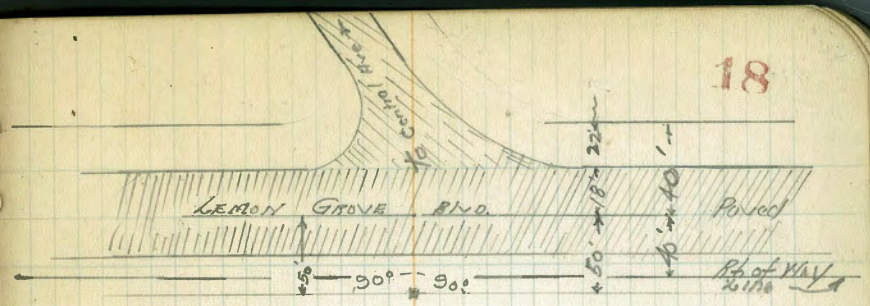


Station	Align.	Defl'n.	True Bearing	Curve Data	Magnetic Bearing.
100.+00					
					S 52°35'E
99 +00					
+55.84 = E.C.		3° 50.0'			
98 +00		3°02.0'		Δ = 7°40'	
				R = 2000'	
+50		2°19.02'		S.T. = 134.0'	
+22.32 = P.I.				L = 267.62'	
97 +00		1°36.05'			
+50		0°53.08'			
96 +00		0°10.11'			
+88.22 P.C.		Lt.			
+50					
	136.79'				
95 +00					
+51.93 = E.C.		18°23.0'			
94+00		16°54.56'			
+50		15°28.62'			
93+00		14°02.68'			

Paving Stake

Completed
6-5-30

Station	Alignment	Deflection	True Bearing	Curve Data
+69.77 = End Line = N 16° W Line Lemon Grove Blvd.				
+59.77 = E.C.		8°01		
+50				Δ = 16°02'
				R = 761.09
105+00		5°46'		L = 212.98
				S.T. 107.19
+53.98 = P.I.				
+50		3°53.08'		
104+00		3°00.16"		
+50		0°07.24'		
+46.79 = B.C.		Lt.		
103+00				
	490.95			
102+00				
101+00				



P.I. Paving Stake

Walker
Bliss
Osborne
6-6-30

PRELIMINARY LEVELS E -

College Way Extension

For location see Pages 2-18 this Book

N.H. B.P. El. Cor's + Gilcher.

0+00 Page 2	1.66	466.93		465.27
=0+00			2.5	464.4
+50			4.0	462.9
1+00			4.6	462.3
+50			5.4	461.5
2+00			6.7	460.2
+50			8.6	458.3
3+00			10.9	456.0
T.P.	0.65	454.65	12.93	454.00
+50			3.1	451.5
4+00			7.7	447.0
+37			11.7	443.0
+50			12.5	442.1
5+00			14.2	440.4
T.P.	0.55	442.36	12.84	441.81
+25			2.3	440.0
+50			4.4	438.0
6+00			8.7	433.7
+50			10.5	431.8
7+00			11.5	430.8
+50			13.3	429.0
+73.40 = B.C. Lt. on Hub			14.31	428.05
8+00			14.6	427.7
+50			14.7	427.7
9+00			14.3	428.1

442.36

9+50			12.2	430.2
10+00			9.3	433.0
+87			10.1	432.3
+38			7.4	435.0
10+50			7.1	435.2
11+00			3.1	439.2
T.P.	13.01	454.98	0.39	441.97
+50			10.8	444.2
12+00			5.1	449.9
+50			0.7	454.3
T.P.	12.03	466.83	0.18	454.80
+91			9.1	457.7
13+00			10.4	456.4
+44			9.7	457.1
+16			5.4	461.4
+50			5.1	461.7
14+00			3.5	463.3
+50			2.8	464.0
15+00			2.1	463.7
+50			5.0	461.8
16+00			8.5	458.3
+09			11.4	455.4
T.P.	0.40	454.25	12.98	453.85
+47.03 = E.C. on Hub.			1.47	452.78
17+00			8.5	445.7
+45			12.9	441.3

		454.25		
T.P.	0.25	441.51	12.99	441.26
17+50			1.6	439.9
18+00			11.0	430.5
T.P.	0.76	429.35	12.92	428.59
+29.75 = P.O.T. on Hub.			2.21	427.14
+50			5.8	423.5
19+00			14.8	414.5
T.P.	0.06	416.60	12.81	416.54
+21			12.3	404.3
+25			13.6	403.0
+50			12.8	403.8
+72			10.9	405.7
20+00			12.8	403.8
+50			16.0	400.6
T.P.	1.39	405.08	12.91	403.69
21+00			6.8	398.3
+50			9.3	395.8
22+00			11.6	393.5
+50			15.3	389.8
T.P.	0.64	392.90	12.82	392.26
23+00			5.8	387.1
+50			7.7	385.6
24+00			9.0	383.9
+50			13.2	379.7
T.P.	0.99	381.18	12.71	380.19
+68.02 = P.O.T. on Hub.			3.62	377.56

		381.18		
25+00			7.9	373.3
+50			13.1	368.1
T.P.	0.65	368.94	12.89	368.29
26+00			5.3	363.6
+50			9.5	359.4
27+00			13.0	355.9
T.P.	2.19	358.09	13.04	355.90
+20			5.2	352.9
+50			4.9	353.2
28+00			8.9	349.2
+50			12.1	346.0
T.P.	0.19	345.37	12.91	345.18
29+00			6.6	338.8
+06.88 = B.C. Rl. on Hub.			7.27	338.10
+22			9.9	335.5
+34			14.5	330.9
+50			14.2	331.2
+75			11.6	333.8
30+00			11.3	334.1
+50			11.1	334.3
T.P.	0.84	333.33	13.88	332.49
+7.0			1.6	331.7
+93.05 = E.C. on Hub.			3.44	329.89
31+00			4.0	329.3
+50			6.7	326.6
+70			7.8	325.5

333.33

31+72			10.8	322.5
+78.05 = N&Y. edge	Univ. Ave Paving		10.86	322.47
+93.05 = ℄	"		10.73	322.60
32+08.05 = S&Y.	"	"	10.84	322.49
+34			11.2	322.1
T.P.	5.83	326.56	12.60	320.73
Chk. SW B.P. Univ. Ave + City line			7.62	318.94
				318.82 = B.P.
				0.12 = Error
Correction on B.M.	7.62	326.44		318.82 = Above B.M.
T.P.	7.33	327.14	6.63	319.81
32+50			13.0	314.1
+72			12.9	314.2
+80			15.4	311.7
+93.05 = B.C. Lt			14.4	312.7
33+00			14.4	312.7
+17			14.8	312.3
+19			12.6	314.5
+50			12.2	314.9
34+00			12.7	314.4
+50			13.0	314.1
35+00			11.6	315.5
+50			11.2	315.9
+85			9.0	318.1
36+00			2.4	324.7
T.P.	12.41	338.96	0.59	326.55

338.96

+25			1.9	337.0
T.P. 12.61		350.49	1.08	337.88
+50			10.8	339.7
37+00			4.8	345.7
+50			3.3	347.2
T.P. 6.49		355.56 ~~344.03~~	1.42	349.07 ~~337.54~~
38+00			5.5	350.0
+50			4.6	351.0
39+00			7.0	348.5
+50			10.3	345.2
40+00			12.8	342.7
+50			12.1	343.4
41+00			12.3	343.2
+50			11.6	344.0
42+00			9.5	346.0
42+13 60 E.C. on ℄			8.90	346.66
+50			6.0	349.6
43+00			1.3	354.2
T.P. 6.13		360.52 ~~348.99~~	1.17	354.39 ~~342.86~~
+50			7.7	352.8
44+00			9.8	350.7
+50			9.9	350.6
45+00			9.1	351.4
+50			6.6	353.9
+75	Bottom ditch at Right Angles to line		8.6	351.9
+80			6.4	354.1

		~~348.99~~ 360.52		
46+00			5.4	355.1
+50			4.7	355.8
47+00			3.0	357.5
TP	11.62	371.42 359.89	0.72	359.80 ~~348.27~~
+50			10.0	361.4
48+00			5.9	365.5
+50			3.2	368.2
49+00			3.0	368.4
+29.52	B.C. Right on Hub		2.03	369.39
+50			2.2	369.2
50+00			5.8	365.6
+20			8.2	363.2
+25			12.8	358.6
+50			10.1	361.3
+75			6.7	364.7
51+00			4.8	366.6
TP	11.46	379.74 ~~368.21~~	3.14	368.28 ~~356.75~~
+50			10.5	369.2
52+00			8.9	371.8
+50			7.6	372.1
53+00			4.9	374.8
+50			2.7	377.0
54+00			1.3	~~378.4~~
T.P.	11.65	391.07 ~~379.54~~	0.32	379.42 ~~367.89~~
+50			8.5	382.5
58+00			7.4	383.7

		~~379.54~~ 391.07		
55+50			6.2	384.9
56+00			6.2	384.9
+50			3.6	387.5
+75			+0.8	391.9
T.P.	12.31	402.55 ~~391.02~~	0.83	390.24 ~~378.71~~
57+00			11.0	391.6
+50			6.9	395.8
58+00			2.3	400.3
+50			1.0	401.6
59+00			1.9	400.7
+0.863	EC. on Hub.		3.12	399.43
+25			5.7	396.9
+63			9.7	392.9
+90			10.2	392.4
60+00			9.2	393.4
+50			3.4	399.2
T.P.	11.91	413.03 ~~400.50~~	1.43	401.12 ~~389.59~~
61+00			10.8	402.2
+50			9.2	403.8
62+00			6.8	406.2
+50			4.6	408.4
63+00			2.3	410.8
T.P.	12.98	425.75	0.26	412.77
63+50			12.5	413.2
64+00			7.8	418.8
+50			4.1	421.6

425.75

T.P.	12.15	437.79	0.11	425.64
65+00			12.5	425.3
+17.91=B.C. Bk on Hub.			11.70	426.09
+50			8.0	429.8
66+00			2.5	435.3
T.P.	11.92	449.18	0.53	437.26
+50			9.2	440.0
67+00			4.3	444.9
T.P.	11.52	460.10	0.60	448.58
+50			10.6	449.5
68+00			6.6	453.5
+50			3.2	456.9
T.P.	12.68	471.97	0.81	459.29
69+00			10.8	461.1
40.31 North of E.C. on South tang. on Hub in 1½" Iron Pipe			6.95	465.02
+30			4.7	467.2
+50			4.8	467.1
+62.97=E.C. on Ground. (Hub Buried)			4.8	467.1
70+00			4.9	467.0
71+00			4.3	467.6
72+00			4.4	467.5
73+00			4.3	467.6
74+00			4.9	467.0
T.P.	3.37	470.48	4.96	467.11
75+00			4.2	466.3
76+00			5.0	465.5

470.48

77+00			5.1	465.4
78+00			4.7	465.8
79+00			4.2	466.3
80+00			3.7	466.8
81+00			3.5	467.0
82+00			3.6	466.9
T.P. 5.92		472.93	3.47	467.01
83+00			6.6	466.3
84+00			6.7	466.2
85+00			6.0	466.9
+75			5.9	467.0
86+00			3.3	469.6
+25			5.7	467.2
+50			3.6	469.3
+70			5.5	467.4
87+00			3.4	469.5
+50			5.3	467.6
+85			3.8	469.1
88+09.73=B.C. Bk. on Hub.			5.08	467.85
+50			6.6	466.3
T.P. 1.11		468.21	5.83	467.10
89+00			1.4	466.8
+25			2.2	466.0
+50			5.9	462.3
T.P. 0.67		456.00	12.88	455.33
90+00			4.4	451.6

		456.00		
90+50			10.7	445.3
+65			14.0	442.0
T.P.	1.00	444.40	13.60	443.40
91+00			4.7	439.7
+25			7.5	436.9
+50			11.9	432.5
92+00			16.5	427.9
T.P.	0.77	431.14	13.03	431.37
+50			7.4	424.7
93+00			11.2	4209
+30			15.7	416.4
93+50			15.5	416.6
T.P.	1.14	430.47	12.81	419.33
94+00			9.4	411.1
+51.43 = E.C. on Hub.			14.07	406.40
T.P.	0.36	406.76	14.07	406.40
95+00			3.8	403.0
+45			5.8	401.0
+88.37 = B.C. Lt. on Hub.			7.57	399.19
96+00			8.7	398.0
+50			11.7	395.0
T.P.	0.33	394.23	12.86	393.90
97+00			2.7	391.5
+50			7.1	387.1
98+00			11.6	382.6
T.P.	1.05	382.83	12.45	381.78

382.83

Completed 6-6-30
Walker
Bliss
Osborne

26

98+55.84 = E.C. on Hub.		5.00	377.83
99+00		7.9	374.9
+50		10.7	372.1
100+00		13.8	369.0
T.P. 080	370.94	12.69	370.14
+40		2.4	368.5
+55		5.0	365.9
101+00		7.1	363.8
+50		10.1	360.8
102+00		12.8	358.1
T.P. 113	359.51	12.56	358.38
+45		7.6	351.9
+50		10.9	348.6
+60		7.4	352.1
103+00		5.8	353.7
+46.79 = B.C. Lt. on Hub.		6.70	352.81
104+00		11.1	348.4
+25		12.5	347.0
T.P. 2.15	348.73	12.93	346.58
+50		7.1	341.6
+75		4.5	344.2
105+00		3.8	344.9
+38		9.7	339.0
+59.77		10.35	337.38
106+09.77 = on ℄ Paving.		10.17	338.56
on ℄ Pav. over culvert		11.20	337.53

Topog. College Way Ext. Align-

Sta.	El.			
105+59	337.38	36.7 / 21.5 L	35.7 / 36.0 L	35.0 / 65.0 ← outs from Sta Left side
105+00	344.9	42.0 / 3.0 L	40.2 / 57.0 L	40.4 / 65.0 L
104+50	341.6	45.0 / 12.0 L	45.0 / 71.0 L	40.0 / 97.0 L
104.0	348.4	45.0 / 7.0 L	45.0 / 23.0 L	50.0 / 53.0 / 42.0 L 95.0 L
BC. 103+46	352.8	50.0 / 11.0 L	45.0 / 32.0 L	45.0 / 44.0 L 50.0 / 55.0 L 68.0 L / 60.0 / 93.0 L
103.0	353.7	50.0 / 21.0 L	50.0 / 36.0 L	55.0 / 47.0 L 60 / 100. L
+50	348.6	50.0 / 5.0 L	55.0 / 25.0 L	60.0 / 48.0 L 65.0 / 80.0 L
102	358.1	60.0 / 18.0 L	65.0 / 80.0 L	
101.	363.8	65.0 / 30.0 L	70.0 / 86.0 L	
100	369.0	70.0 / 15.0 L	75.0 / 86.0 L	
99.0	374.9	75.0 / 3.0 L	80.0 / 60.0 L	85.0 / 95.0 L
98+55 EC.	377.8	80.0 / 18.0 L	85.0 / 70.0 L	90.0 / 90.0 L
98.	382.6	85.0 / 18.0 L	90.0 / 48.0 L	95.0 / 75.0 L

Alignment. Page 2 - Hough-Join 6/28-1930

27

Sta.	El.					
97+50-387.1		90.0 / 15.0 L	95.0 / 37.0 L	400. / 68.0 L	405. / 98.0 L	
97+00	391.5	95.0 / 17.0 L	400.0 / 40.0 L	405. / 63.0 L	410.0 / 77.0 L	415.0 / 106.0 L
96+50-395.0		400.0 / 23.0 L	405.0 / 47.0 L	410.0 / 67.0 L	415.0 / 87.0 L	
95+88 BC.	399.2	400. / 3.0 L	405. / 25.0 L	410. / 42.0 L	415.0 / 65.0 L	420.0 / 90.0 L
95	403.0	405.0 / 8.0 L	410.0 / 29.0 L	415 / 50.0 L	420.0 / 71.0 L	425. / 86.0 L
94.	411.1	415.0 / 11.0 L	420.0 / 26.0 L	425.0 / 51.0 L	430.0 / 75.0 L	
93	420.9	425.0 / 17.0 L	30. / 46.0 L	35.0 / 62.0 L	40.0 / 90.0 L	
92	427.9	30.0 / 11.0 L	35.0 / 39.0 L	40.0 / 56.0 L	45.0 / 74 L	
+50	37.5	35.0 / 7.0 L	40.0 / 21.0 L	45.0 / 47.0 L	50.0 / 67.0 L	
91	439.7	40.0 / 3.0 L	45.0 / 21.0 L	50.0 / 34.0 L	55.0 / 66.0 L	
90.	51.6	55.0 / 13.0 L	60.0 / 45.0 L	65.0 / 75.0 L	℄	50.0 / 30.0 R 45. / 60.0 R
+50	62.3	65.0 / 18.0 L	70. / 130. L			60.0 / 14.0 R 55.0 / 54.0 R
89-46.8			70.0 / 125.0 L			65.0 / 40.0 R

Position of Staked line

R. of ℄

College Way

Sta	El.		
88+10	467.85	Top Knoll 70.0 / 35.0 L	
86.	469.6	20.0 / 0.0 top knolls	R. side
		See page 36 Opp. 39 Opp.	
		Road for ℄ 46.0 / 22.0 L ℄	46.5.0 / 31.0 R
69	461.1	Wood Pipe. Wire wrapped 8"	
+50	456.9	Level.	65.0 / 25.0 R 70.0 / 45.0 R
68	453.5	55.0 / 40.0 L	55.0 / 25.0 R 60.0 / 38.0 R
+50	449.5	55.0 / 32.0 L 50.0 / 30 L	50.0 / 25.R 55.0 / 70.0 R
67	449	50.0 / 31.0 L 45.0 / 2.0 L	45.0 / 4.0 R 50.0 / 60.0 R
		6-30/36	
+50	440.0	45.0 / 28.0 L 50.0 / 46.0 L 40.0 / 20 R 45.0 / 52 R	
66	435.3	40.0 / 32.0 L 45.0 / 47.0 L	35.0 / 3.0 R 35.0 / 13.0 R 40.0 / 43.0 R 45.0 / 60 R
+50	429.8	30.0 / 2.0 L 35.0 / 25.0 L 40.0 / 47.0 L	30.0 / 8.0 R 35.0 / 30.0 R 40.0 / 50.0 R 45.0 / 70.0 R
65	425.2	25.0 / 5.0 L 30.0 / 33.0 L 35.0 / 52.0 L	30.0 / 22.0 R 35.0 / 33.0 R 40.0 / 53 R
+50	421.6	25.0 / 33.0 20.0 / 20.0 L 20.0 / 3.0 L 0.0	25.0 / 12.0 R 30.0 / 30.0 R 35.0 / 47.0 R
64	418.8	25.0 / 38.0 L 20.0 / 21.0 L 15.0 / 10.0 L 0.0	20.0 / 4.0 R 25.0 / 20.0 R 30.0 / 39.0 R 35.0 / 54.0 R

College Way. 28

℄

Sta.	El.								
63+50	413.2	20.0 / 45.0	15.0 / 18.0	10.0 / 4.0	0.0	15.0 / 4.0	20.0 / 19.0	25.0 / 35.0	
63+00	410.8	20.0 / 26.0	15.0 / 12.0	0.0		10.0 / 1.0	10.0 / 7.0	15.0 / 15.0	20.0 / 32.0	25.0 / 50.0
62+50	408.4	20.0 / 30.0	415.0 / 16.0	410.0 / 3.0	0.0	405.0 / 4.0	405.0 / 11.0	410.0 / 20.0	415.0 / 37.0	420.0 / 54.0
62+00	406.2	20.0 / 30.0	415.0 / 21.0	410.0 / 10.0	0.0	405.0 / 3.0	405.0 / 18.0	410.0 / 35.0	415.0 / 55.0	
+50	403.8	415.0 / 33.0	410.0 / 21.0	405.0 / 8.0	0.0	400. / 13.0	400. / 21.0	405.0 / 34.0	410.0 / 49.0	
61+00	401.2	415.0 / 34.0	410.0 / 22.0	405.0 / 10.0	0.0	400.0 / 21.0	395.0 / 28.0	400.0 / 37.0	405.0 / 65.0	
+50	399.2	410.0 / 30.0	405.0 / 18.0	400.0 / 3.0	0.0	395.0 / 18.0	45.0 / 24.0	400.0 / 35.0	405.0 / 50.0	
60+00	393.4	400.0 / 30.0	395.0 / 7.0	390. / 3.0	390. / 12.0	95.0 / 17.0	400.0 / 34.0	405.0 / 48.0	410 / 60.0	
+63	392.9	400. / 45.0	95.0 / 33.0	90.0 / 9.0	90.0 / 3.0	0.0	95.0 / 5.0	400.0 / 20.0	405.0 / 32.0	410.0 / 46.0	415.0 / 64.0
59+00	400.7	90.0 / 46.0	85.0 / 31.0	90. / 27.0	95.0 / 16.0	400.0 / 3.0	0.0	405.0 / 16.0	410.0 / 45.0	415.0 / 61.0	
+50	401.6	85.0 / 80.0	85.0 / 74.0	90.0 / 47.0	45.0 / 20.0	400.0 / 3.0		405.0 / 10.0	410.0 / 25.0	415.0 / 35.0	420.0 / 68.0	
58.07	400.3	85.0 / 70.0	90.0 / 51.0	95.0 / 33.0	400.0 / Tp			405.0 / 14.0	410.0 / 36.0	415.0 / 55.0	420.0 / 76.0	
+50.	395.8	85.0 / 48.0	90.0 / 24.0	95.0 / 2.0	400.0 / 20.0			405.0 / 34.0	410.0 / 54.0	415.0 / 74.0		
57	391.6	80 / 65.0	80.0 / 48.0	85.0 / 29.0	90.0 / 8.0	95 / 12.0	400.0 / 30.0	410.0 / 47.0	415.0 / 60.0			

College Way

Sta.	El.	Left → Right							
56+50	387.5	80.0 / 60.0	75.0 / 38.0	80.0 / 30.0	85.0 / 11.0	90.0 / 10.0	95.0 / 27.0	400.0 / 43.0	405.0 / 60.0
56+00	384.9	385.0 / 80.0	380.0 / 42.0	75.0 / 30.0	380.0 / 21.0	85.0 / 00	90.0 / 17.0	95.0 / 29.0	400.0 / 45.0
+50	384.9	75.0 / 45.0	25.0 / 32.0	80.0 / 20.0	85.0 / 00	90.0 / 15.0	95.0 / 32.0	400.0 / 50.0	405.0 / 63.0
55+00	383.7		74.0 / 45.0	80.0 / 15.0	85.0 / 5.0	90.0 / 20.0	95.0 / 34.0	400.0 / 48.0	405.0 / 62.0
+50	382.5		70.0 / 62.0	75.0 / 50.0	80.0 / 10.0	85.0 / 13.0	90.0 / 28	95.0 / 43	400.0 / 59.0
54+50	381.4								
54+00	378.4		70.0 / 5	75.0 / 4.0	80.0 / 21.0	85.0 / 6.0	90.0 / 20.0	95.0 / 30.0	400.0 / 44.0
+50	377.0	70.0 / 67.0	70.0 / 50.0	75.0 / 26.0	80.0 / 10.0	85.0 / 23.0	90.0 / 33.0	95.0 / 45.0	400.0 / 60.0
53+00	374.8	65.0 / 50.0	65.0 / 30.0	70.0 / 40.0	75.0 / 3.0	80.0 / 15.0	85.0 / 31.0	90.0 / 43.0	95.0 / 46.0 / 68.0
+50	372.1	70.0 / 50.0	65.0 / 37.0	65.0 / 30.0	370.0 / 15.0	75.0 / 10.0	80.0 / 27.0	85.0 / 40.0	90.0 / 53.0
52	371.8	370.0 / 45.0	65.0 / 23.0	65.0 / 16.0	370.0 / 12.0	375.0 / 12.0	80.0 / 32.0	85.0 / 58.0	90.0 / 75.0
+50	369.2	70.0 / 54.0	65.0 / 30.0	65.0 / 20.0	70.0 / 3.0	75.0 / 35.0	80.0 / 64.0	85.0 / 89.0	
51+00	366.6	70.0 / 53.0	65 / 33.0	65.0 / 12.0	70.0 / 23.0	76.0 / 57.0			
+50	361.3	75.0 / 65.0	70.0 / 40.0	65.0 / 17.0	360.0 / 11.0	360.0 / 5.0	65.0 / 11.0	70.0 / 61.0	
50	365.6	80.0 / 64.0	750 / 43.0	370.0 / 17.0	365.0 / 2.0	60.0 / 17.0	60.0 / 24.0	65.0 / 48.0	70.0 / 98.0

College Way

Sta.	El.								
49+50	369.2	85.0 / 73.0	80.0 / 49.0	75.0 / 26.0	70.0 / 4.0		65.0 / 19.0	60.0 / 34.0	55.0 / 40.0 / 60.0 / 50.0 / 65.0 / 96.0
49+00	368.4	85.0 / 67.0	80.0 / 39.0	75.0 / 22.0	70.0 / 5.0	65.0 / 20.0	60.0 / 50.0	60.0 / 85.0	
+50	368.7	85.0 / 71.0	80.0 / 44.0	75.0 / 27.0	70.0 / 7.0	65.0 / 20.0	60.0 / 42.0		
48+00	365.5	80.0 / 81.0	75.0 / 59.0	70.0 / 27.0	65.0 / 3.0	60.0 / 35.0			
+50	361.4	80.0 / 82.0	75.0 / 62.0	70.0 / 40.0	365.0 / 19.0	360.0 / 18.0	355.0 / 68.0		
47+00	357.1	75.0 / 80.0	70.0 / 57.0	65.0 / 35.0	360.0 / 10.0	355.0 / 34.0	51.5 / 72.0	Elev Wash.	
+50	355.8	75.0 / 105.0	70.0 / 89.0	65.0 / 49.0	360.0 / 23.0	355.0 / 12.0	51.0 / 41.0	Wash.	
46+00	355.1	70.0 / 102.0	65.0 / 78.0	60.0 / 43.0	55.0 / 00	50.0 / 32.0	50.0 / 45.0	55.0 / 70.0	

Sec. Book 1984.

See Page 28 — Left. — L. Wood - Right — 6-30-30 Hough Jane.

69+03 Left 47.0 to N. end Culvert.

69+33 Left 54.0 to S. end Culvert. Flow. El. 464.7

	El.			
+50	467.1		Top Knoll 70.0 / 37.0	69.5 / 50.0
90	467.0		" " 70.0 / 47.0	70.3 / 50.0
91	467.6			69.8 / 50.0
92	467.5	70 / 65.0 / 5' Left.		
93	467.6			
94	467.0			
95	466.3			
96	465.5	60.0 / 100.0 — 65.0 / 45.0		66.1 / 50.0
+50		60.0 / 90.0 — 65.0 / 20.0		
97	465.4	55.0 / 74.0 — 60.0 / 20.0 — 65.0 / 15.0	Flow. 8" Wood Culvert El. 464.2	
+50		65.0 / 50.0		
98	465.8			
99				
80	466.8			
1	467.0			
2	466.9	82+50 = 60.0 / 85 — 65.0 / 17.0		
3	466.3	60.0 / 72.0 — 465.0 / 18.0		
+50		60.0 / 65.0 — 65.0 / 33.0	Across El. 65.0 in pot. Holes 2' Knolls.	
84	466.2	60.0 / 75.0 — 65.0 / 36.0	El. Knoll. Top 69.5	
+50		60.0 / 76.0 — 65.0 / 20.0		
85	466.9	60.0 / 81.0 — 65.0 / 43.0		
86	469.6	65.0 / 95.0 — 70.0 / 00	Top Knoll	

See Page 28

30° to Cent. 34. to Cent on Knoll

7 Cut 70 — 70.0 / 34.0 — Right

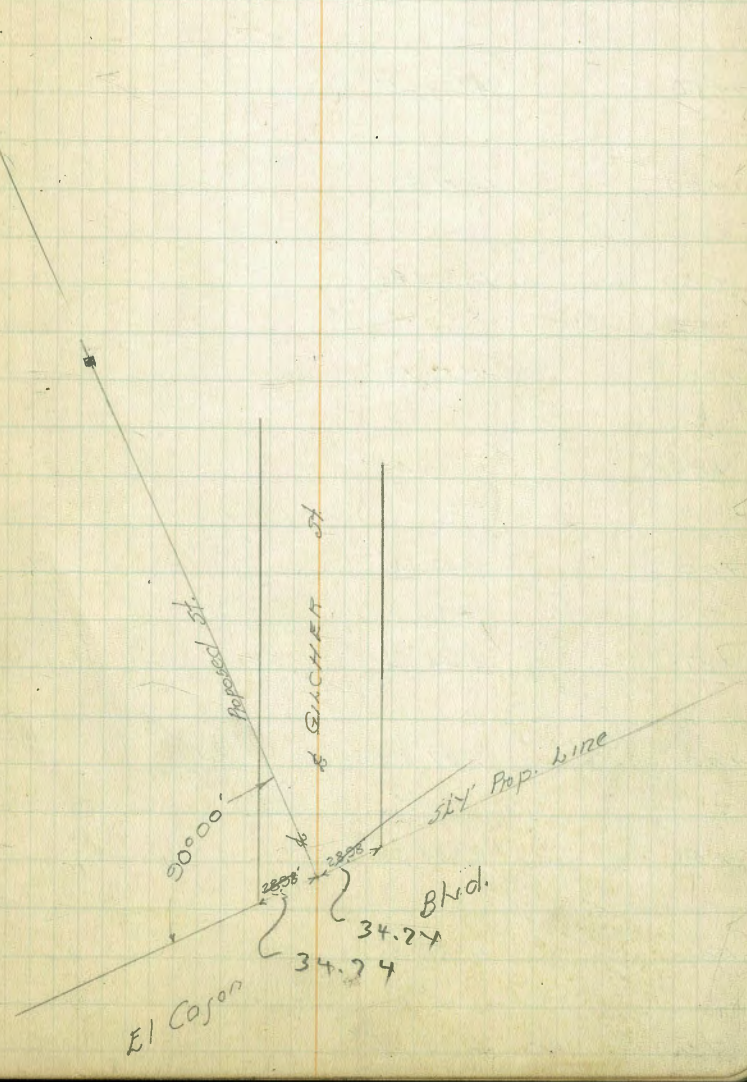
Walker
Bliss
Dreibert
Mathon
4-3-30

Change in Alignment

College Way Extension

From Station 0+00 Page 1 to Station.

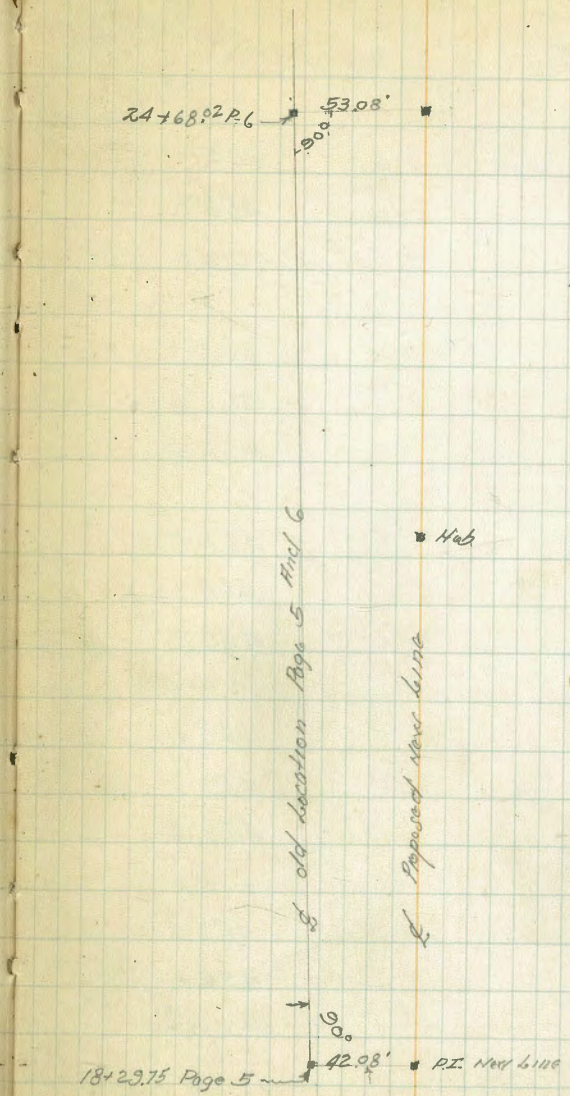
Station	Align.	Deflh.	True Bearing	Curve Data
5+00		3°58.37'		
				Δ=39°20'
+50		3°01.07'		R=1500
				T.T.=536.10'
4+00		2°08.78'		L=1029.74
+50		1°06.48'		
3+00		0°09.19'		
+91.98=B.C.		Rt.		
+50				
2+00				
+50				
1+00				
+50				
0+00=South line El Cajon Blvd & Gilcher.				



Station	Align	Defln.	True Bearing	Curve Data
+50		16°23.20'		
11+00		15°25.91'		
+50		14°28.61'		
10+00		13°31.32'		
+50		12°34.02'		
9+00		11°36.73'		
+50		10°39.43'		
8+00		9°42.14'		
+50		8°44.84		
7+00		7°47.25'		
+50		6°50.25'		
6+00		5°52.96'		
+50		4°55.66'		

Station	Align.	Defln.	True Bearing	Curve Data
+50		1°53.58'		Δ = 33°14
				R = 1000'
17+00		3° 27.64		S.T. = 298.49'
				L = 580.03'
+50		2°01.70'		
16+00		0°35.76'		
+79.19 = BC.		Rt.		
+50				
15+00				
	257.47'			
+50				
14+00				
+50				
+21.74 = EC.		19°40.00'		
13+00		19°12.09'		
+50		18°17.80'		
12+00		17°20.50'		

Station	Align.	Defln.	True Bearing	Curve Data
+59.22 = P.C.		16°37.0'		
+50		16°21.10'		
21+00		14°55.16'		
+50		13°29.22'		
20+00		12°03.28'		
+50		10 37.34'		
19+00		9°11.40'		
+77.62 = P.T.				
+50		7°45.46'		
18+00		6°19.52'		



7/5/30
Loudon

Sec. Levels on Alignment on P 34

B.M	1.08	466.35		465.27	NW B.P. E/C Sec 2 Cottage Way
0+50					
60 R			3.0	463.3	
℄			3.0	463.3	
60 L			4.4	462.0	
1+00					
60 L			5.0	461.0	
℄			3.8	462.6	
60 R			4.1	462.3	
1+50					
60 R			4.9	461.5	
℄			5.7	460.7	
60 L			6.1	460.3	
2+00					
60 L			8.4	458.0	
℄			7.3	459.1	
60 R			7.0	459.4	
2+50					
60 R			9.4	457.0	
℄			10.3	456.1	
60 L			11.1	455.3	
2+91.28 B.C.					
60 L			15.7	450.7	
℄			13.4	453.0	
60 R			12.3	454.1	
T.P.	1.63	455.38	12.60	453.75	

455.38

4+00		
60 R	10.0	445.4
℄	11.9	443.5
25 L	11.3	444.1
50 L	12.2	443.2
60 L	12.7	442.7
4+13		
60 L	13.0	442.4
20 L	11.6	443.8
℄	13.4	442.0
40 R	11.1	444.3
60 R	11.1	444.3
4+30		
60 R	14.2	441.2
℄	15.1	440.3
60 L	12.6	442.8
5+00		
60 L	9.2	446.2
℄	12.6	442.8
80 R	17.7	437.7
5+50		
60 R	13.4	442.0
℄	9.9	445.5
60 L	6.4	449.0

6+00	455.38		
COL		3.0	4524
℄		6.9	4485
COR		11.3	444.1
6+50			
COR		10.1	445.3
℄		4.8	450.6
COL		0.2	455.4
T.P.	3.62	0.76	454.62
7+00			
COL		3.1	4551
℄		7.2	4510
COR		12.4	445.8
8+00			
COR		14.3	4339
℄		10.1	4481
COL		7.3	450.9
8+50			
COL		12.2	4460
℄		14.5	4437
COR		16.8	441.4
9+06			
COR		20.8	4374
℄		19.2	4390
COL		16.5	441.7

9+50	458.24		
COL		12.1	446.1
℄		14.4	443.8
COR		18.0	440.2
10+00			
COR		15.3	442.9
℄		12.0	446.2
COL		9.3	4489
10+50			
COL		3.8	4544
℄		8.0	450.2
COR		10.7	447.5
11+00			
COR		8.0	450.2
℄		2.5	455.7
T.P.	12.72	2.33	455.71
45L		9.9	458.7
COL		10.7	457.9
11+50			
COL		8.4	460.2
25L		7.1	461.5
℄		11.0	4576
BOR		11.6	457.0
COR		15.7	452.9

12+00	46863		
60R		12.3	456.3
30R		10.2	458.4
℄		7.7	460.9
20L		6.7	461.9
60L		6.4	462.2
12+50			
60L		6.5	462.1
℄		6.6	462.0
10R		6.6	462.0
30R		9.5	459.1
60R		11.0	457.6
13+00			
60R		8.7	459.9
45R		7.0	461.6
20R		8.3	460.9
℄		4.6	464.0
60L		5.5	463.1
14+00			
60L		3.4	465.2
℄		6.1	462.5
45R		7.7	460.9
60R		5.8	462.8

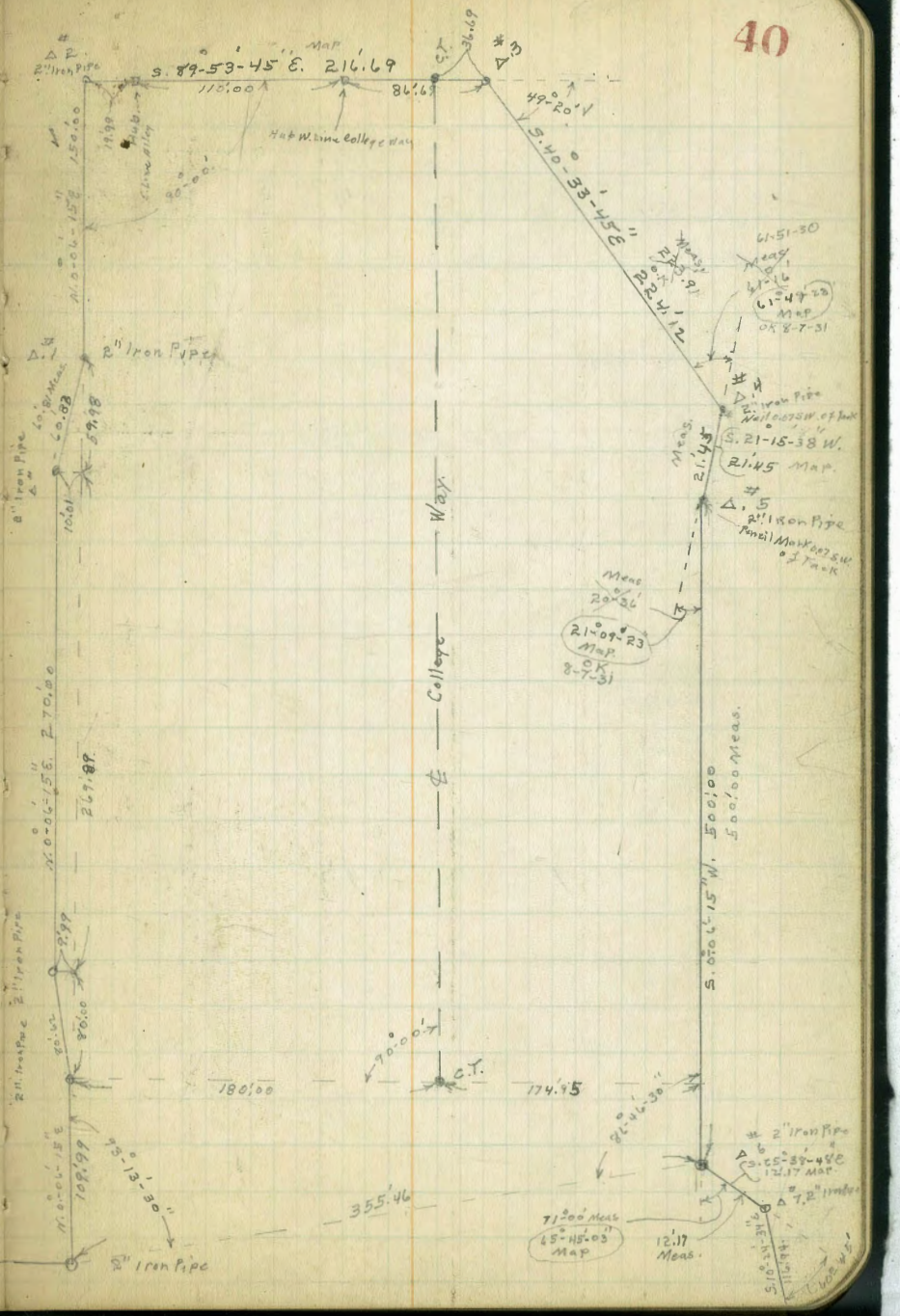
15+00	46863		
60R		6.6	462.0
℄		7.2	461.4
60L		6.9	461.7
15+50			
60L		13.6	455.0
℄		13.3	455.3
60R		8.7	459.9
16+00			
60R		11.8	456.8
TP 0.15	455.71	13.07	455.56
℄		9.5	446.2
30L		13.8	441.9
60L		13.9	441.8
16+50			
60L		27.3	428.4
40L		28.1	427.6
℄		16.9	438.8
28R		7.7	448.0
60R		3.1	452.6
17+00			
60R		5.2	450.5
25R		7.4	448.3
TP 0.27	443.09	12.89	442.82
℄		4.2	438.9
55L		28.0	415.1
60L		25.4	417.7

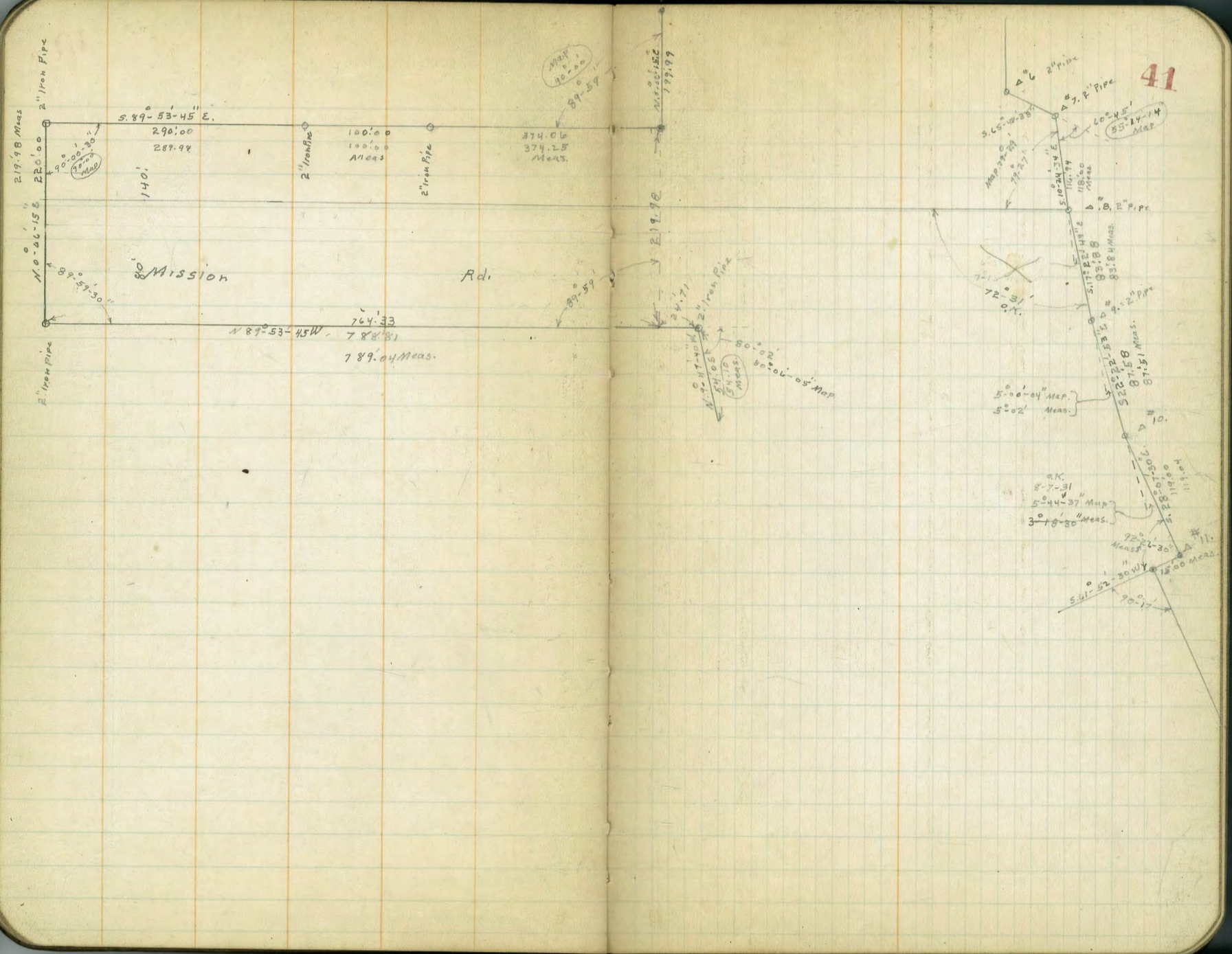
18+00	443.09			
GOL			26.1	417.0
℄			12.5	430.6
50R			1.6	441.5
18+50				
60R			7.1	436.0
TP	1.16	431.18	13.07	430.04
℄			4.3	426.9
60L			15.8	415.4
19+00				
60L			20.6	410.6
HOL			14.1	417.1
℄			10.5	420.7
60R			3.3	427.9
19+50				
60R			6.6	424.6
℄			22.2	409.0
60L			34.8	396.4
TP	1.44	419.67	12.95	418.23
20+00				
60L			20.4	399.3
℄			3.0	416.7
60R			+9.1	428.8

21+00	419.67		
60R		+6.9	426.6
1℄R		0.5	419.2
℄		3.6	416.1
60L		23.3	396.4
21+54 ℄℄ EC.			
60L		25.1	394.6
10L		10.0	409.7
℄ on Hub		4.94	414.73
60R		+5.2	425.9

College Park Boundaries

8-1-31
Miller
Walker
Bliss

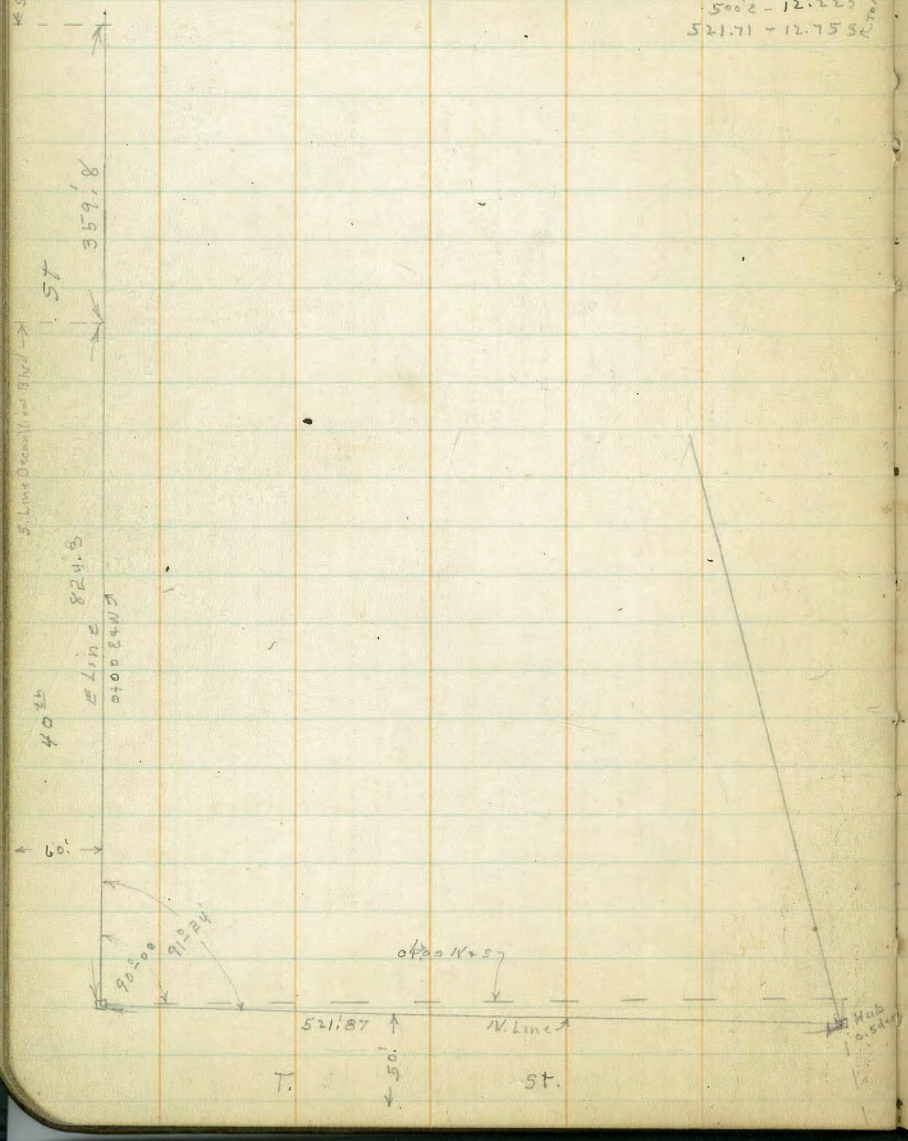



2" Iron Pipe
S. 89° - 53' - 45" E.
290.00
289.98
100.00
100.00 Meas
374.06
374.25 Meas.
Map 90°00'
89°59'
N. 0° 06' 15" E.
219.99
219.98 Meas
220.00
140'
N 0° - 06' - 15" E
89° - 59' - 30"
Mission Rd.
89° 59'
764.33
788.81
N 89° - 53' - 45" W
789.04 Meas.
2" Iron Pipe
2" Iron Pipe
2" Iron Pipe
24.71
N. 24° 47' W.
51.05
51.44 Meas.
80° 02'
80° 01' 05" Map.
#6
2" Pipe
#7. 2" Pipe
S. 65° 14' 38" E.
Map 39° 24'
39° 27'
40° 45'
55° 14' 14"
Map
#8. 2" Pipe
N. 17° 22' E.
111.44
100.00
Meas.
83.84 Meas.
72° 31'
O.K.
#9. 2" Pipe
S. 22° 38' E.
87.51 Meas.
5° 00' 04" Map.
5° 02' Meas.
#10.
O.K.
8-7-31
5° 44' 37" Map
3° 18' 30" Meas.
92° 22' 30"
Meas.
#11.
15.00 Meas.
S. 61° 52' 30" W.
90° 17'

11-29-32
Willis
Walker
Bliss.

X. See. Mt. View - Park.

N. Line T. of
0+00 N. S.
50.2 - 1.22 S
100.2 - 2.44 S
150.2 - 3.67 S
200.2 - 4.89 S
250.2 - 6.11 S
300.2 - 7.33 S
350.2 - 8.55 S
400.2 - 9.78 S
450.2 - 11.00 S
500.2 - 12.225
521.71 - 12.75 S
to N. Line T. St.



42

Mt. View Park X Sec. Indexed C.S.K.

B.M. N.W. "C.T."	2.92	85.10		82.18	40th & Ocean View.
Set B.M. B.P.			7.84	77.26	N.W. Teak & 40th
T.P.	0.83	72.77	13.16	71.94	
Set. B.M. B.P.			6.01	66.76	N.W. "S." & 40th Sts.
T.P.	3.78	63.32	13.23	59.54	
Set B.M. B.P.			12.70	50.62	N.W. "T." & 40th St.

N. E. Cor 40th & T. Sts = 00 N & S. & 00 E & W. = E. Line 40th

= Base Line x sections taken at 90°-00 to Base Line

℄ 63.32

00 N & S - 00 E & W		10.2	53.12	N. E Cor "T" & 40th Sts
1.22 S. - 50' E		10.9	52.42	N. Line "T" St.
00 N & S - 50' E		10.9	52.42	
2.44 S. - 100' E		12.2	51.12	N. Line "T" St.
00. N & S. - 100. E		12.2	51.12	
3.67 S - 150' E		14.3	49.02	N. Line "T" St.
00 N & S. - 150' E		14.0	49.32	
4.40 S. - 180' E		15.5	47.82	N. Line "T" St.
00 N & S - 180' E		15.4	47.92	
4.89 S - 200' E		17.4	45.92	N. Line "T" St.
00. N & S. - 200' E		17.3	46.02	
5.13 S. - 210' E		18.4	44.92	N. Line T. St.
00. N & S - 210' E		18.4	44.92	
5.50 S. - 225' E		18.4	44.92	N. Line T. St.
00. N & S - 225' E		18.4	44.92	

Mt View Park

63.32

43

6.11 S - 250' E		16.3	47.02	N. Line T. St.
00. N & S - 250' E		16.3	47.02	
6.48 S - 265' E		16.8	46.52	N. Line T. St.
00 - N & S - 265. E.		15.5	47.82	
25' N. - 265' E		14.8	48.52	
7.33 S. - 300' E		16.2	47.12	N. Line T. St.
00. N & S - 300' E		16.2	47.12	
8.55 S - 350' E		12.4	50.92	N. Line T. St
00. N & S - 350' E		11.5	51.82	
9.78 S. - 400' E		8.0	55.32	N. Line T. St
00. N & S - 400' E		8.0	55.32	
10.39 S. - 425. E		5.3	58.02	N. Line T. St.
00 N & S. - 425' E		5.3	58.02	
11.00 S. - 450' E		1.6	61.72	N. Line T. St.
00 - N & S. - 450' E.		1.6	61.72	
T.P. 0.58	63.88	0.02	63.30	
11.49 S - 470' E		+0.4	64.3	N. Line T. St.
0+00 N & S - 470' E		+0.4	64.3	
12.22 S - 500 E		+3.0	66.9	N. Line T. St.
0+00 N & S. 500 E		+3.0	66.9	
12.75 S - 521.71 E		+4.0	67.9	N.W. Cor "T" & Boundary Sts
0+00 N & S. - 521.71 E		+4.2	68.1	Traveled Rd. Boundary St.
50' N 510' E		+5.7	69.6	Traveled Rd Boundary St.
50' N 500. E		+4.2	68.1	
50' N 470' E		+0.8	64.7	
40' N 450' E		1.3	62.6	

63.88

50' N	450' E	2.2	61.7	
50' N	420' E	6.0	57.9	
50' N	400' E	7.3	56.6	
50' N	350' E	11.1	52.8	
50' N	300' E	14.8	49.1	
50' N	270' E	15.0	48.9	
50' N	250' E	16.3	47.6	
50' N	225' E	17.3	46.6	
50' N	200' E	16.3	47.6	
50' N	170' E	15.0	48.9	
50' N	150' E	14.1	49.8	
50' N	100' E	11.7	52.2	
50' N	80' E	10.4	53.5	
50' N	50' E	9.1	54.8	
50' N	0028 W	8.8	55.1	E.2 in ~ 40'
100' N	0028 W	6.6	57.3	" " "
100' N	50' E	6.7	57.2	
100' N	87' E	8.1	55.8	
100' N	100' E	9.7	54.2	
100' N	150' E	12.4	51.5	
100' N	200' E	15.1	48.8	
100' N	225' E	15.4	48.5	
100' N	250' E	13.5	50.4	
100' N	287' E	12.6	51.3	
100' N	300' E	11.5	52.4	

63.88

100' N	350' E	5.9	58.0	
100' N	370' E	4.2	59.7	
100' N	400' E	2.4	61.5	
100' N	450' E	+0.9	64.8	
130' N	450' E	+3.4	67.3	
100' N	465' E	+3.0	66.9	
100' N	490' E	+4.4	68.3	
100' N	500' E	+5.7	69.6	Traveled Road Boundary St.
150' N	483' E	+6.0	69.9	Traveled Rd Boundary St.
150' N	476' E	+5.5	69.4	
150' N	450' E	+6.4	70.3	
150' N	430' E	+7.7	71.6	
150' N	400' E	+6.4	70.3	
150' N	365' E	+4.0	67.9	
150' N	350' E	+1.2	65.1	
150' N	315' E	4.6	59.3	
150' N	300' E	7.0	56.9	
150' N	270' E	9.7	54.2	
150' N	250' E	11.4	52.5	
150' N	240' E	12.7	51.2	
150' N	225' E	13.3	50.6	
150' N	200' E	13.1	50.8	
150' N	150' E	10.3	53.6	
150' N	100' E	6.8	57.1	
150' N	87' E	5.1	58.8	
150' N	50' E	4.9	59.0	

63.88

150' N	00 E+W		3.6	60.3	E. Line x 40th
175' N	00 E+W		3.2	60.7	" " "
200' N	00 E+W		0.7	63.2	" " "
200' N	25' E		2.7	62.2	
183' N	25' E		2.2	61.7	
200' N	50' E		2.2	61.7	
188' N	50' E		2.0	61.9	
200' N	80' E		2.5	61.4	
188' N	80' E		2.1	61.8	
200' N	100' E		4.0	59.9	
192' N	100' E		2.0	61.9	
200' N	120' E		5.3	58.6	
190' N	120' E		4.8	59.1	
200' N	150' E		9.3	54.6	
200' N	200' E		11.4	52.5	
200' N	220' E		10.9	53.0	
200' N	250' E		9.1	54.8	
200' N	275' E		7.4	56.3	
200' N	300' E		4.3	59.6	
200' N	325' E		0.0	63.9	
200' N	350' E		+6.2	70.1	
200' N	385' E		+12.0	75.9	
236' N	385' E		+12.0	75.9	
200' N	400' E		+14.4	78.3	
236' N	400' E		+14.0	77.9	

63.88

200' N - 420' E	+14.7	78.6	
215' N - 420' E	+16.2	80.1	
230' N - 420' E	+16.0	79.9	
200' N - 437' E	+13.3	77.2	
215' N - 437' E	+14.8	78.7	
230' N - 437' E	+14.3	78.2	
200' N - 450' E	+11.5	75.4	
215' N - 450' E	+11.7	75.6	
200' N - 461' E	+5.3	69.2	
200' N - 470' E	+5.4	69.3	Traveled Rd Boundary St.
250' N - 455' E	+4.6	68.5	Traveled Rd Boundary St.
250' N - 448' E	+4.0	67.9	
250' N - 437' E	+11.6	75.5	
250' N - 430' E	+13.2	77.1	
250' N - 420' E	+12.8	76.7	
250' N - 400' E	+11.8	75.7	
250' N - 365' E	+7.0	70.9	
250' N - 350' E	+4.2	68.1	
250' N - 330' E	+1.4	65.3	
250' N - 300' E	1.7	62.2	
265' N - 300' E	1.7	62.2	
275' N - 300' E	2.9	61.0	
285' N - 300' E	2.6	61.3	
250' N 275' E	4.7	59.2	
250' N 250' E	5.8	58.1	
262' N 250' E	5.5	58.4	

		63.88			5.10 66.74
250' N	214' E		7.3	56.6	
250' N	200' E		6.8	57.1	
250' N	150' E		8.5	55.4	
250' N	100' E		5.8	58.1	
230' N	100' E		5.9	58.0	
250' N	75' E		4.9	59.0	
208' N	75' E		2.5	61.4	
217' N	75' E		4.5	59.4	
250' N	50' E		1.1	62.8	
T.P.	8.62	71.92	0.58	63.30	
250' N	00 E & W		7.3	64.6	E. Line 40"
300' N	00 E & W		5.9	66.0	" " "
300' N	15' E		7.6	64.3	
275' N	15' E		6.8	65.1	
300' N	25' E		8.6	63.3	
300' N	50' E		9.8	62.1	
300' N	70' E		12.3	59.6	
280' N	70' E		12.0	59.9	
270' N	70' E		10.4	61.5	
300' N	88' E		14.0	57.9	
280' N	88' E		13.8	58.1	
270' N	88' E		13.4	58.5	
300' N	100' E		14.0	57.9	
300' N	150' E		15.8	56.1	
300' N	160' E		16.3	55.6	
300' N	200' E		14.0	57.9	

		71.92			
300' N	215' E		12.9	59.0	
300' N	250' E		8.5	63.4	
300' N	300' E		4.4	65.5	
325' N	300' E		1.8	70.1	
300' N	325' E		6.0	65.9	
294' N	325' E		8.8	63.1	
285' N	325' E		8.6	63.3	
267' N	325' E		6.1	65.8	
321' N	325' E		3.2	68.7	
300' N	350' E		7.7	64.2	
290' N	350' E		4.1	67.8	
306' N	350' E		7.7	64.2	
311' N	350' E		4.8	67.1	
300' N	375' E		3.0	68.9	
312' N	375' E		5.2	66.7	
325' N	375' E		3.3	68.6	
300' N	400' E		2.8	69.1	
320' N	400' E		5.1	66.8	
300' N	420' E		4.4	67.5	
320' N	426' E		6.8	65.1	
300' N	434' E		6.4	65.3	
300' N	442' E		5.5	66.4	Traveled Rd Boundary St
350' N	428' E		5.8	66.1	
350' N	420' E		7.3	64.6	
350' N	400' E		5.7	66.2	
350' N	375" E		55	66.4	

71.92

350' N	350' E	5.2	66.7	
350. N	325' E	4.6	67.3	
350. N	300' E	3.9	68.0	
338' N	300' E	1.6	70.3	
350' N	285' E	2.4	69.5	
335' N	285' E	1.7	70.2	
350' N	250' E	6.7	65.2	
325' N	250' E	6.0	65.9	
350' N	215' E	13.3	58.6	
350' N	200' E	14.1	57.8	
350' N	175' E	15.4	56.5	
350' N	150' E	14.8	57.1	
350' N	100' E	14.6	57.3	
332' N	100' E	14.9	57.0	
325' N	100' E	13.5	58.4	
365' N	100' E	14.1	57.8	
370' N	100' E	12.8	59.1	
350' N	85' E	14.2	57.7	
360' N	85' E	11.9	60.0	
327' N	85' E	14.3	57.6	
320' N	85' E	13.2	58.7	
350' N	75' E	11.6	60.3	
320' N	75' E	12.3	59.6	
350' N	50' E	8.2	63.7	
335' N	50' E	9.2	62.7	

71.92

350' N	25' E	3.8	68.1	
320' N	25' E	7.6	64.3	
350' N	00 E+W	3.3	68.6	E. Line 40th St.
375' N	00 E+W	1.2	70.7	" " " "
375' N	25' E	1.6	70.3	
400' N	00 E+W	+0.8	72.7	" " " "
400' N	25' E	0.8	71.1	
400' N	50' E	4.1	67.8	
400' N	80' E	9.7	62.2	
400' N	100' E	11.4	60.5	
425 N	100' E	9.3	62.6	
400' N	125' E	13.6	58.3	
425' N	125' E	13.0	58.9	
400' N	150' E	14.4	57.5	
400' N	200' E	14.9	57.0	
400' N	220' E	13.0	58.9	
410' N	220' E	14.3	57.6	
400' N	250' E	12.8	59.1	
400' N	260' E	11.2	60.7	
414' N	260' E	12.2	59.7	
400' N	300' E	9.2	62.7	
413' N	300' E	8.8	63.1	
415' N	300' E	10.2	61.7	
425' N	300' E	10.7	61.2	
425' N	310' E	8.5	63.4	
400' N	310' E	8.6	63.3	

400'. N	330'. E		6.2	65.7	
425'. N	330'. E		6.3	65.6	
400'. N	350'. E		5.0	66.9	
400'. N	392'. E		5.7	66.2	
400'. N	400'. E		7.4	64.5	
400'. N	407'. E		7.3	64.6	
400'. N	413'. E		5.7	66.2	Traveled Rd Boundary St.
450'. N	398'. E		5.5	66.4	" "
450'. N	392'. E		7.0	64.9	
450'. N	380'. E		3.9	68.0	
450'. N	360'. E		3.3	68.6	
450'. N	350'. E		4.0	67.3	
450'. N	325'. E		8.1	63.8	
450'. N	300'. E		9.5	62.4	
450'. N	250'. E		12.1	59.8	
450'. N	200'. E		12.1	59.8	
487'. N	200'. E		13.7	58.2	
450'. N	150'. E		12.7	59.2	
450'. N	125'. E		11.9	60.0	
450'. N	100'. E		9.5	62.4	
450'. N	70'. E		7.5	64.4	
450'. N	50'. E		4.4	67.5	
450'. N	25'. E		1.2	70.7	
450'. N	00. E+W		+3.6	75.5	E. Line 40 Ft
500'. N	00 E+W.		+3.0	74.9	" " "

500'. N	25'. E		0.8	71.1	
500'. N	50'. E		4.4	67.5	
500'. N	100'. E		9.4	62.5	
500'. N	125'. E		10.9	61.0	
500'. N	150'. E		9.9	62.0	
500'. N	165'. E		10.7	61.2	
500'. N	200'. E		9.6	62.3	
525'. N	200'. E		7.3	64.6	
500'. N	250'. E		8.6	63.3	
500'. N	300'. E		8.3	63.6	
515'. N	300'. E		7.0	64.9	
525'. N	300'. E		4.3	67.6	
500'. N	325'. E		6.6	65.3	
500'. N	350'. E		4.4	67.5	
500'. N	344'. E		4.1	67.8	
500'. N	378'. E		6.3	65.6	
510'. N	378'. E		4.7	67.2	
500'. N	383'. E		5.1	66.8	Traveled Rd Boundary St.
T.P.	10.27	80.39	1.80	70.12	
T.P. BM.	4.82	82.08	3.13	77.26	N.W. Teak + 40 Ft
525'. N.	00 E.		8.2	73.9	E. Line 40 Ft
525'. N	25'. E.		12.2	69.9	
540 N.	00. E.		18.0	74.1	" " "
550 N	00. E.		19.6	72.5	" " "
575 N	00 E		11.7	70.4	" " "
575'. N	25'. E.		14.1	68.0	

550' N	25' E	11.5	70.6		
575' N	50' E	14.6	67.5		
550' N	100' E	18.3	63.8		
550' N	125' E	19.4	62.7		
550' N	150' E	18.4	63.7		
550' N	200' E	16.8	65.3		
550' N	250' E	15.3	66.8		
550' N	300' E	13.4	68.7		
550' N	350' E	13.3	68.8		
550' N	375' E	13.2	68.9		
550' N	385' E	13.3	68.8	Traveled Rd Boundary	
571' N	380' E	13.7	68.4 S.	W. edge Pavmt	
575' N	333' E	13.1	69.0 S.	W " "	
591.5 N	375' E	13.6	68.5 N	E " "	
600' N	375' E	13.0	69.1		
616' N	370' E	8.8	73.3		
610' N	350' E	10.9	71.2		
600' N	350' E	12.6	69.5		
600' N	323.3 E	13.0	69.1	N.E. edge pavmt	
600' N	290.8 E	12.4	69.7 S.	W. " "	
625' N	250' E	12.7	69.4		
625' N	260' E	10.6	71.5		
625' N	266' E	11.6	70.5	W. edge pavmt	
625' N	293.9 E	12.3	69.8 N	E " "	
625' N	315' E	11.0	71.1		
625' N	350' E	9.4	72.7		

625' N	366' E	8.3	73.8	cmt. garage floor
638' N	361' E	5.7	76.4	" "
650' N	359' E	5.7	76.4	
650' N	350' E	4.6	75.5	
650' N	325' E	8.6	73.5	
650' N	300' E	9.0	73.1	
650' N	288' E	9.4	72.7	
650' N	276' E	11.5	70.6	
650' N	268.9 E	11.5	70.6	N.E. edge pav.
650' N	240.8 E	10.9	71.2	S.W. " "
650' N	235' E	9.9	72.2	
650' N	225' E	13.0	69.1	
600' N	250' E	13.6	68.5	
600' N	200' E	16.4	65.7	
600' N	150' E	17.9	64.2	
600' N	100' E	17.7	64.4	
600' N	50' E	16.6	65.5	
600' N	00 E	12.3	69.8	E. Line 40'
625' N	00 E	12.5	69.6	
625' N	25' E	15.4	66.7	
650' N	00 E	13.5	68.6	
650' N	10' E	14.9	67.2	
650' N	50' E	16.0	66.1	
650' N	100' E	16.5	65.6	
650' N	150' E	16.7	65.4	
650' N	200' E	15.0	67.1	

675' N	200' E	13.8	68.3	
675' N	210' E	9.6	72.5	
675' N	216' E	10.2	71.9	
675' N	244' E	10.8	71.3	
675' N	255' E	10.7	71.4	
675' N	275' E	9.4	72.7	
675' N	300' E	7.9	74.2	
675' N	318' E	7.9	74.2	
675' N	325' E	6.1	76.0	
675 N	350' E	3.5	78.6	
700' N	344' E	3.0	79.1	
700' N	320' E	3.5	78.6	
700' N	300' E	7.2	74.9	
700 N	275' E	8.1	74.0	
700' N	250' E	9.9	72.2	
700' N	231' E	11.1	71.0	
700' N	224' E	9.2	72.9	
700' N	219.4 E	9.9	72.2	N.E. Edge pavmt.
700' N	191' E	9.5	72.6	S.W. " "
700 N	185' E	8.5	73.6	
700' N	175' E	14.0	68.1	
700' N	150' E	14.9	67.2	
706' N	149' E	14.8	67.3	F.L. outlet 18" cmt. Pipe Culvert crossing Ocean View Blvd.
700' N	100' E	14.9	67.2	
700' N	50' E	14.8	67.3	
700' N	4' E	13.6	68.5	

700' N	00 E.	11.8	70.3 E. Line 40th
682 N	2' E.	14.1	68.0 F.L. outlet cmt. Pipe Culvert crossing 40th St.
750' N.	00. E.	9.9	72.2 E. Line 40th
750' N	5' E	11.4	70.7
750' N	50' E	12.0	70.1
762' N	50' E	11.3	70.8
750' N.	100' E	12.4	69.7
760' N	100' E	8.0	74.1
740' N	125. E	13.3	68.8
750' N	125' E	11.0	71.1
760' N	125' E	7.4	74.7
750' N	136' E	7.1	75.0
750' N	141.5 E	8.0	74.1 S.W. edge pavmt.
750' N	149.6 E	8.3	73.8 N.E. " "
750' N	175' E	7.2	74.9
750' N	185' E	11.3	70.8
750' N	200' E	11.6	71.5
738' N	200' E	12.1	70.0 F.L. Inlet 18" cmt. Pipe Culvert crossing Ocean View Blvd.
725' N	145. E	14.2	67.9
725' N	161' E	7.7	74.4
725' N	166.2 E	8.8	73.3 S.W. Edge Pavmt.
725' N	194.6 E	9.1	73.0 N.E. " "
725' N	200' E	8.4	73.7
725' N.	208' E	11.8	70.3
750' N	225' E	10.0	72.1
750' N	240' E	8.3	73.8

82.08

750' N	250' E		7.8	74.3
750' N	263' E		7.6	74.5
750' N	275' E		5.6	76.5
750' N	300' E		3.3	78.8
750' N	330' E		0.8	81.3
800' N	317' E		+ 3.2	85.3
800' N	300' E		0.3	81.8
800' N	250' E		5.1	77.0
800' N	235' E		6.2	75.9
800' N	225' E		7.9	74.2
800' N	200' E		7.9	74.2
800' N	175' E		9.5	72.6
800' N	150' E		10.1	72.0
800' N	142' E		10.5	72.0
775' N	200' E		10.6	71.5
775' N	175' E		11.2	70.9
775' N	162' E		11.0	71.1
775' N	151' E		6.5	75.6
775' N	144.9 E		7.5	74.6 ✓ N.E. Edge pavmt.
775' N	116.4 E		7.2	74.9 ✓ S.W. " "
775' N	113. E		5.9	76.2
775' N	1100' E		7.4	74.7
775' N	75' E		7.4	74.7
765' N	75' E		7.3	74.8
770' N	50' E		7.0	75.1
775' N	50' E		7.0	75.1

82.08

Mt. View Park

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770' N	25' E		10.3	71.8
775' N	25' E		6.9	75.2
775' N	10' E		9.3	72.8
775' N	00 E		7.3	74.8 E. Line 40' ±
785' N	00 E		5.3	76.8 " " "
785' N	10' E		5.3	76.8
800' N	124' E		5.4	76.7
800' N	120.3 E		6.5	75.6 ✓ N.E. edge pavmt.
800' N	91.8 E		6.3	75.8 ✓ S.W. " "
800' N	85 E		5.2	76.9
800' N	75' E		5.8	76.3
800' N	50' E		5.9	76.2
800' N	25' E		5.5	76.6
800' N	00' E		4.8	77.3 E. Line 40' ±
825' N	00' E		4.0	78.1 " " "
825' N	25' E		4.3	77.8
825' N	50' E		4.9	77.2
825' N	54' E		5.3	76.8 S.W. edge pavmt.
825' N	82.5 E		5.8	76.3 ✓ N.E " "
825' N	88' E		4.7	77.4
825' N	111' E		8.3	73.8
838.3 N	00 E		3.60	78.48 E. End cmt. el Return Gulter
838.3 N	00 E		4.15	77.93 ✓ S.W. edge pavmt.
850' N	00 E		3.75	78.33 on "
850' N	50' E		4.55	77.53 " "
850' N	70.4 E		5.01	77.07 ✓ N.E. Edge "

		82.08			
850' N	75' E		4.1	78.0	
850' N	92' E		7.3	74.8	
850' N	100' E		7.7	74.4	
850' N	150' E		7.4	74.7	
850' N	200' E		6.8	75.3	
850' N	250' E		3.3	78.8	
850' N	263' E		2.0	80.1	
T.P.	10.84	90.89	2.03	80.05	
850' N	302' E		4.2	86.7	
879' N	292' E		4.7	86.2	cmt. floor garage
890' N	290' E		5.1	85.8	dirt floor garage
890' N	275' E		6.7	84.2	
890' N	250' E		10.7	80.2	
900' N	288' E		6.7	84.2	
900' N	275' E		9.1	81.8	
900' N	250' E		10.9	80.0	
900' N	225' E		13.2	77.7	
900' N	200' E		13.2	77.7	
900' N	156' E		11.6	79.3	
900' N	150' E		13.2	77.7	
900' N	100' E		12.7	78.2	
900' N	75' E		13.5	77.4	
900' N	50' E		13.8	77.1	
900' N	14' E		12.4	78.5	
900' N	00' E		10.7	80.2	E Line 40th st
875' N	00' E		12.00	78.89	" " "

		90.89			
875' N	44.8' E		13.17	77.72	N.E. Edge pavmt
875' N	50' E		11.9	79.0	
875' N	40' E		13.5	77.4	
875' N	75' E		14.7	76.2	
880' N	50' E		12.0	78.9	
890.3' N	50' E		13.8	77.1	
890.3' N	25' E		11.5	79.4	
887' N	25' E		12.77	78.12	
890.3' N	00' E		12.12	78.77	Gutter N.E edge Pavmt.
890.3' N	00' E		11.37	79.52	E. End el. Return
950' N	00' E		9.1	81.8	E. Line 40th
950' N	6' E		11.9	79.0	E. End outlet 24" Cor. Iron Culvert Cross the 40th st
950' N	6' E		10.9	80.0	
950' N	50' E		10.2	80.7	
950' N	75' E		8.8	82.1	
975' N	75' E		6.7	84.2	
950' N	100' E		8.5	82.4	
950' N	120' E		8.9	82.0	
950' N	125' E		7.6	83.3	
950' N	150' E		7.3	83.6	
950' N	200' E		9.2	81.7	
950' N	225' E		9.6	81.3	
950' N	250' E		8.5	82.4	
950' N	274' E		7.3	83.6	dirt floor garage.
T.P.	11.98	102.01	0.86	90.03	

		102.01			
990' N	263' E.		15.1	86.9	
990. N	250. E.		15.4	86.6	
990' N	237' E		15.6	86.4	
990' N	225		15.8	86.2	
1000. N	262. E		11.6	90.4	
1000' N	250' E		11.6	90.4	
1000' N	240' E		12.4	89.6	
1000' N	235' E		14.3	87.7	
1000' N	225' E		14.2	87.8	
1000' N	200' E		12.0	90.0	
1000' N	175' E		9.3	92.7	
1000' N	150' E		8.9	94.1	
1000' N	125' E		12.0	90.0	
1000' N	100' E		13.7	88.3	
1000' N	93' E		14.1	87.9	
1000' N	90' E		17.0	85.0	
1000' N	65' E		15.9	86.1	
1000' N	50' E		17.2	84.8	
1000' N	25' E		18.5	83.5	
1000' N	00' E		18.8	85.2	E. Line 40[76]
T.P.	9.21	109.46	1.76	100.25	
1025' N	00' E		24.8	84.7	E. Line 40[76]
1025' N	15' E		23.5	86.0	
1025' N	25' E		23.6	85.9	
1025' N	50' E		21.5	88.0	
1025' N	77' E		22.3	87.2	

		109.46			
1025' N	80' E		20.3	89.2	
1025' N	100' E		17.7	91.8	
1025' N	125' E		15.4	94.1	
1025' N	150' E		11.1	98.4	
1025' N	165' E		10.4	99.1	
1025' N	175' E		10.8	98.7	
1025' N	200' E		14.6	94.9	
1025' N	215' E		17.4	92.1	
1025' N	225' E		17.7	91.8	
1025' N	254' E		17.4	92.1	
1030' N	253' E		17.4	92.1	cmt. floor garage.
1050' N	247' E		14.0	95.5	
1050' N	225' E		14.0	95.5	
1050' N	200' E		9.6	99.9	
1050' N	175' E		7.2	102.3	
1050' N	150' E		7.5	102.0	
1050' N	125' E		13.1	96.4	
1050' N	100' E		14.9	94.6	
1050' N	70' E		18.8	90.7	
1050' N	65' E		20.5	89.0	
1050' N	50' E		19.7	89.8	
1050' N	25' E		20.4	89.1	
1050' N	15' E		20.7	88.8	
1050' N	7' E		23.3	86.2	
1050' N	00' E		23.6	85.9	E. Line 40[76]

109.46

1075' N

00' E	22.2	87.3	E. Line 40th
10' E	23.1	86.4	
17' E	18.6	90.9	
51' E	18.6	90.9	
55' E	16.3	93.2	
75' E	14.8	94.7	
100' E	13.3	96.2	
125' E	10.5	99.0	
150' E	7.0	102.5	
175' E	7.2	102.3	
200' E	8.3	101.2	
225' E	10.6	98.9	
240' E	11.0	98.5	

1200. N

233' E	8.4	101.1	
200' E	8.1	101.4	
175' E	6.7	102.8	
150' E	6.2	103.3	
125' E	7.7	101.8	
100' E	9.8	99.7	
75' E	12.6	96.9	
50' E	13.5	96.0	
45' E	14.7	94.8	
40' E	17.3	92.2	
15' E	16.8	92.7	
00 E	19.9	89.6	E. Line 40th

109.46

Mt. View Park

1125' N

00 E	17.1	92.4	E. Line 40th
10' E	15.3	94.2	
28' E	15.8	93.7	
31' E	14.0	95.5	
50' E	12.3	97.2	
75' E	10.3	99.2	
100' E	7.4	102.1	
110' E	6.3	103.2	
125' E	5.9	103.6	
150' E	5.6	103.9	
175' E	6.8	102.7	
200' E	7.6	101.9	
225' E	8.0	101.5	

1150' N

220' E	8.0	101.5	
200' E	7.2	102.3	
175' E	5.7	103.8	
150' E	5.6	103.9	
125' E	5.3	104.2	
100' E	6.1	103.4	
75' E	7.3	102.2	
50' E	10.1	99.4	
25' E	11.3	98.2	
18' E	14.5	95.0	
5' E	14.0	95.5	
00' E	14.6	94.9	E. Line 40th

109.46

1175'N.

00. E.	11.2	98.3	E. Line 40th
9' E	9.8	99.7	
15' E	10.3	99.2	
25' E	9.1	100.4	
50' E	6.6	102.9	
75' E	5.1	104.4	
100' E	4.2	105.3	
125' E	5.2	104.3	
150' E	5.9	103.6	
175' E	6.8	102.7	
200' E	7.7	101.8	
212' E	7.4	102.1	
1200' E			
205' E	7.7	101.8	
175' E	7.1	102.4	
150' E	6.2	103.3	
125' E	5.1	104.4	
100' E	4.9	104.6	
75' E	4.5	105.0	
50' E	5.0	104.5	
25' E	6.8	102.7	
6' E	8.2	101.3	
0.0. E	10.9	98.6	E. Line 40th

109.46

Mt. View Park

1225'N.

3' W.	11.0	98.5	
00.	9.8	99.7	E. Line 40th
2' E	5.3	104.2	
25' E	5.0	104.5	
50' E	4.6	104.9	
75' E	4.5	105.0	
100' E	4.9	104.6	
125' E.	5.9	103.6	
150' E	7.3	102.2	
175' E	8.0	101.5	
197' E	8.0	101.5	
1250' N			
190' E	12.5	97.0	
175' E	12.0	97.5	
150' E	9.4	100.1	
125' E	7.4	102.1	
100' E	5.5	104.0	
75' E	4.1	104.8	
50' E	4.3	105.2	
25' E	4.3	105.2	
2' E	4.0	105.5	
00	8.1	101.4	E. Line 40th St.
3' W	9.3	100.2	

109.46

1275' N

3' W	7.9	101.6	
00	6.3	103.2	E. Line 40th
2' E	3.1	106.4	
25' E	3.4	106.1	
50' E	4.0	105.5	
75' E	4.5	105.0	
100' E	5.4	104.1	
125' E	7.2	102.3	
150' E	9.9	99.6	
185 E	14.1	95.4	

1300' N

176' E	18.0	91.5	
150' E	11.4	98.1	
135' E	7.2	102.3	
125' E	6.0	103.5	
100' E	5.0	104.5	
75' E	4.4	104.1	
50' E	3.6	105.9	
25' E	3.1	106.4	
2' E	3.7	105.8	
00	7.2	102.3	E. Line 40th
3' W.	7.5	102.0	

1325' N.

3' W	9.0	100.5	
00	8.2	101.3	E. Line 40th
2' E	4.2	105.3	

109.46

2.5' E	3.6	105.9	
50' E	3.1	106.4	
75' E	5.2	104.3	
100' E	5.0	104.5	
125' E	6.8	102.7	
150' E	13.8	95.7	
T.P. 1.54	105.69	5.31	104.15
173' E	16.0	89.7	

1350' N

163' E	18.2	87.5	
150' E	14.9	90.8	
125' E	8.1	97.6	
100' E	4.1	101.6	
75' E	2.8	102.9	
50' E	2.1	103.6	
25' E	0.8	104.9	
2' E	2.0	103.7	
00	6.1	99.6	E. Line 40th
4' W.	7.2	98.5	

1358' N 00 E	7.5	98.2	E. Line 40th
1358' N 2' E	2.8	102.9	
1358' N 25' E	1.8	103.9	
1355' N 50' E	2.9	102.8	
1355' N 75' E	3.8	101.9	
1354 N 100' E	4.6	101.1	

1360'N	00.E	7.6	98.1	
1360'N	2'E	7.4	98.1	
1360'N	25'E	10.3	95.4	
1360'N	50'E	13.8	91.9	
1360'N	75'E	16.3	89.4	
1358'N	100'E	18.2	87.5	
1355'N	125'E	19.4	86.3	
1353'N	150'E	20.2	85.5	
1356'N	162'E	21.4	84.3	
1369.4N	161'E	22.4	83.3	W. End of S. Curb Franklyn Ave.
	1375'N.			
161'E		22.2	83.5	
150'E		21.8	83.9	
125'E		20.4	85.3	
100'E		18.7	87.0	
75'E		17.0	88.7	
50'E		14.1	91.6	
25'E		11.3	94.4	
00.E		9.1	96.6	E. Line 40TH
	1400'N			
00.E		9.3	96.4	E. Line 40TH
25'E		11.2	94.5	
50'E		13.6	91.9	
75'E		16.3	89.4	
100'E		18.3	87.4	
125'E		20.3	85.4	

1400'N. -	150'E	22.3	83.4	W. End of N. Curb Franklyn Ave.
1410'N	50'E	13.1	92.6	
1416'N	50'E	14.7	91.0	
1410'N	25'E	11.1	94.6	
1418'N	25'E	13.5	92.2	
1418'N	15'E	12.9	92.8	
1418'N	5'E	9.5	96.2	
1410'N	5'E	9.5	96.2	
1429'N	10'E	14.5	91.2	F.L. out of 24" conc. Pipe Culvert Crossing Holt St.
	1425'N			
00.E		9.0	96.7	E. Line 40TH
8'E		12.4	93.3	
25'E		13.1	92.6	
50'E		14.5	91.2	
75'E		16.1	89.6	
100'E		17.7	88.0	
125'E		18.9	86.8	
143'E		19.4	86.3	
	1450'N			
136'E		16.0	89.7	
125'E		16.5	89.2	
100'E		16.0	89.7	
75'E		15.2	90.5	
40'E		14.4	91.3	
50'E		12.2	93.5	

105.69

1450' N.

25' E		6.8	98.9	
00 E		7.4	98.3	E. Line 40'
1437' N	25' E	12.8	92.9	
1441 N	50' E	14.5	91.2	

1475' N

00 E		5.2	100.5	E. Line 40'
25' E		4.6	101.1	
50' E		5.8	99.9	
65' E		6.9	98.8	
75' E		9.9	95.8	
100' E		10.9	94.8	
115' E		10.0	95.7	
125' E		8.3	97.4	
130' E				
1485 N	75' E	7.7	98.0	
1490 N	50' E	5.4	100.3	
1466 N	50' E	5.7	99.8	
1492 N	25' E	4.2	101.5	
1492' N	00 E	3.7	102.0	E. Line 40'

105.69 Mt. View Park

58

1500' N.

00 E		3.3	102.4	E. Line 40'
25' E		2.1	103.6	
50' E		2.9	102.8	
75' E		3.6	102.1	
100' E		3.8	101.9	
122' E		3.5	102.2	
T.P.	11.76	115.78	1.67	104.02
1510' N	120' E		12.0	
1510' N	100' E		11.8	104.0
1510' N	75' E		11.4	104.4
1510' N	50' E		11.1	104.7

1525' N

00 E		11.3	104.5	E. Line 40
3' E		9.7	106.1	
25' E		9.7	106.1	
50' E		9.9	105.9	
75' E		10.3	105.5	
100' E		10.0	105.8	
116' E		10.5	105.3	

1550' N

109' E	8.7	107.1	
100' E	8.7	107.1	
75' E	8.3	107.5	
50' E	8.0	107.8	
25' E	7.7	108.1	

1550' N			
3' E	7.5	108.3	
00	9.9	105.9	E. Line 40 ft
1600' N			
00	6.9	108.9	E Line 40 ft
5' E	3.4	112.4	
25' E	5.1	110.7	
50' E	6.6	109.2	
75' E	7.4	108.4	
95' E	7.6	108.2	
1650' N.			
82' E	6.9	108.9	
50' E	5.8	110.0	
25' E	4.9	110.9	
3' E	4.0	111.8	
00	6.0	109.8	E. Line 40 ft
1700' N.			
00	5.2	110.6	E. Line 40 ft
25' E	6.2	109.6	
50' E	7.1	108.7	
67' E	7.8	108.0	
1750' N			
53' E	7.3	108.5	
25' E	6.4	109.0	
00	5.7	110.1	E. Line 40 ft

1800' N.					
00			5.4	110.4	E. Line 40 ft
25' E			6.8	109.0	
43' E			7.1	108.7	
1850' N.					
00			5.8	110.0	E. Line 40 ft
25' E			7.3	108.5	
T.P.	0.38	102.88	13.28	102.50	
T.P.	1.94	92.01	12.81	90.07	
chk B.M. N. W. 7' ct. O.V. Blvd + 40 ft			9.78	82.23 = 82.18	

7 60 51.10 58.10

58.10 5.00

53.10

54 00

4 36

49 80

495

.80

4.15

.50

4.65

.50

5.15

.40

5.55

.70

6.25

.50

6.75

Storesight h.t. E. Edge Elec Pole at base

56

56

56

56.75

54.5 54.5

55.25

57.5

54.5

56

54.5 54 53.75

53.5

55

El. 54

Curb

51.1

Gradeson Tennis Courts

		W. edge	℄	E. Edge	
2+40 N. End	8.15 68.8 +1.00 67.80	8.43 68.87 68.20 C. 0.67	9.06 68.24 68.20 C. 0.04	9.44 67.86 — B.M. 68.20 F 0.34	
2+10	culvert 10.92 FL 66.388x 67.80 2.00	9.35 67.95 67.95 0.00	10.27 67.03 67.95 F 0.92	10.64 66.64 67.95 F 1.31	
1+80	FL 65.80 Culvert to be Lowered.	9.87 67.43 67.70 F 0.27	9.66 67.64 67.70 F 0.06	11.47 65.83 67.70 F 1.87	
1+50		10.49 66.81 67.45 F 0.64	10.08 67.22 67.45 F 0.23	11.80 65.50 67.45 F 1.95	
1+20		9.52 67.78 67.20 C. 0.58	11.70 65.60 67.20 F 1.60	12.71 64.59 67.20 F 2.61	
0+90		8.49 68.81 66.95 C. 1.86	10.67 66.63 66.95 F 0.32	12.59 64.71 66.95 F 2.24	
0+60		6.18 71.12 66.70 C. 4.42	9.53 67.77 66.70 C. 1.07	12.13 65.17 66.70 F 1.53	
0+30		5.88 71.42 66.45 C. 4.97	9.75 67.55 66.45 C. 1.10	12.50 64.80 66.45 F 1.65	
0+00 S. End	5.30 72.00 + 4.2 67.80	5.17 72.13 66.20 C. 5.93	9.65 67.65 66.20 C. 1.41	12.90 64.40 66.20 F 1.80	13.00 64.30 — 3.5 67.80

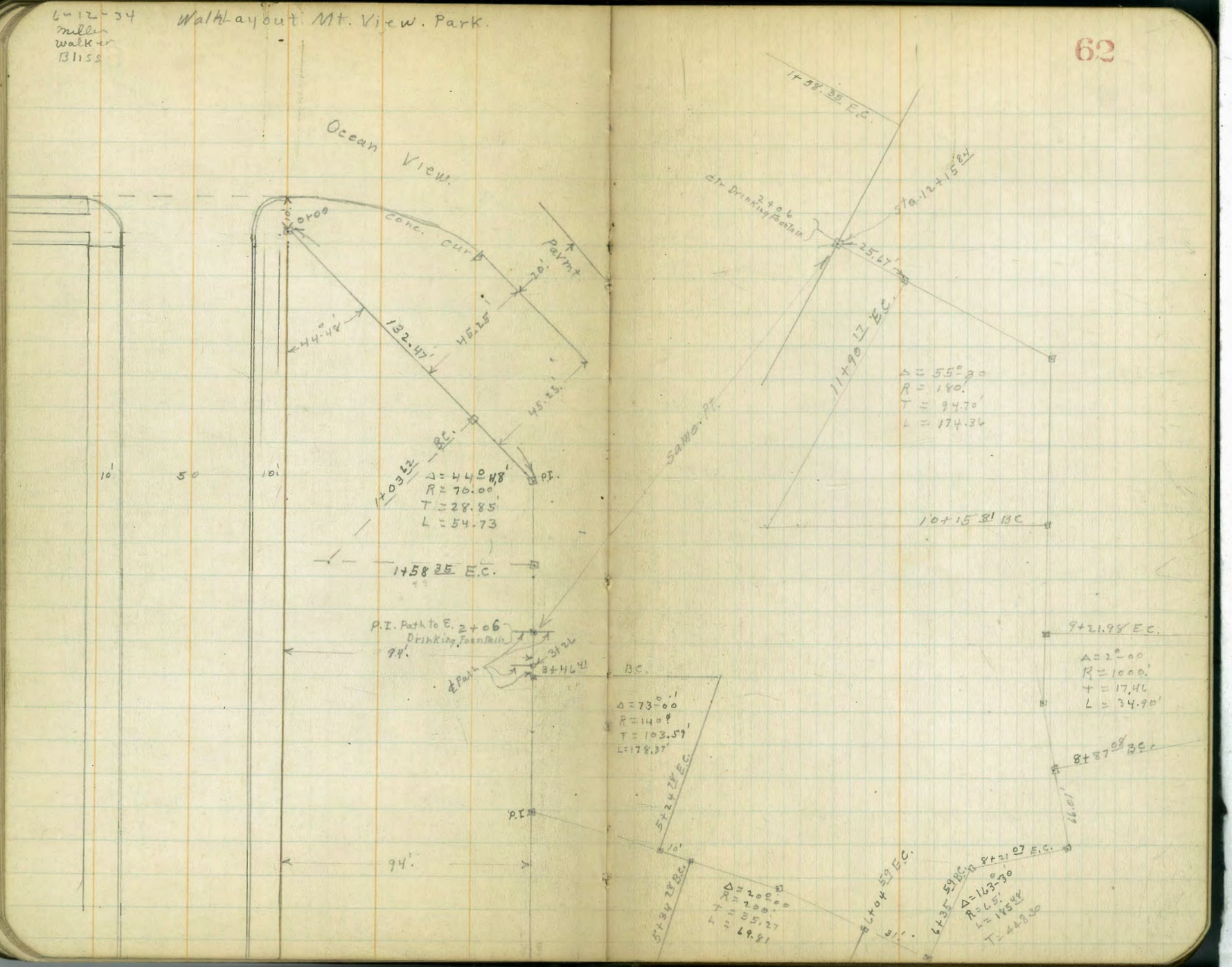
Tennis Courts Mt. View Park

82.19 B.M. N.W. ↑ ct. 40th & Ocean View.
77.26 B.M. B.P. N.W. 40th & Teak Sts.

					Grade
0.04 77.30 5.17 72.13 1.51 73.64	Grad.	68.2 5.4 4.8 C. 0.6	0.0 Finish Grades B.M. 67.86 + 1.86 = 69.72 68.20 1.52 68.20		68.2 5.4 5.1 F 0.3
5.08 84 4.75 Red. 2.60 2.20 8.95		67.95 5.7 5.7 6.0	67.95 1.77 67.95		67.95 5.7 7.0 F 1.3 out 1.9
out 6.5 E. line 40th St.		67.70 5.9 5.9 6.0	67.70 2.02 67.70		67.70 5.9 7.8 F 1.9 out 3.0
out 6.3 77.26 1.36 78.62		67.45 6.2 6.2 0.0	67.45 2.27 67.45		67.45 6.2 8.7 F 2.5 out 3.8
		67.20 6.4 5.8 out 0.6 C 0.6	67.20 2.52 67.20		67.20 6.4 9.2 F 2.8 out 4.2
out 0.3		66.95 11.7 11.4 C 0.3	2.77 3.27 C. 0.50 66.95 2.77 66.95		66.95 6.7 8.4 F 2.5 out 3.8
out 4.8		66.70 11.9 7.1 C 4.8	3.02 2.02 C. 1.00 66.70 3.02 66.70		66.70 6.9 8.6 F 1.7 out 2.5
out 4.8		66.45 12.2 7.4 C. 4.8	3.27 1.77 C. 1.50 66.45 3.27	66.45	66.45 7.2 9.3 F 2.1 out 3.1
out 7.4 C 7.4		64.20 12.4 5.0 C 5.8 out 3.8	3.52 1.52 C. 2.00 12.4 6.6 11.0 C 1.4	66.20 3.52 66.20 C. 2.1 out 3.2	66.20 7.4 9.6 F 2.2 out 3.3

6-12-34
Miller
Walker
Bliss

Walk Layout Mt. View Park.



Path: A. Alignment.

2+06 P.I. Path To E

1+75

1+58 35 E.C.

Det ∠s.
22°-24'

chd.
18.19

Δ = 44°-48'

1+40.10

14°-56'

R = 70'

18.19

T = 28.85'

1+21 86

7°-28'

L = 54.73'

18.19

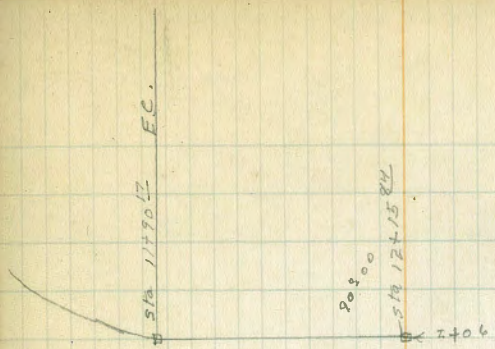
1+03 52 B.C. Rt.

0+75

0+50

0+25

0+00 = { 4' on N. of S. Line Ocean View & E. Line Hobart
10' Curb Radius S.E. Cor. 40th & Ocean View Blvd.



5+24 78 E C		Defl∠s. 36°-30'
	Chd 29.67	
4+95 06		30°-25'
"		
4+65 33		24°-20'
"		
4+35 60		18°-15'
"		
4+05 87		12°-10'
"		
3+76 14		6°-05'
	29.67	
3+46 41	B.C. Lt.	
3+25		
3+00		
2+75		
2+50		
2+25		

Δ = 73°-00'
R = 140'
T = 103.59'
L = 178.37'

P.I Stub

8+87 $\frac{68}{}$ B.C. Rt

8+50

8+21 $\frac{07}{}$ E.C

7+90 $\frac{14}{}$

7+59 $\frac{23}{}$

7+28 $\frac{32}{}$

6+97 $\frac{41}{}$

6+66 $\frac{50}{}$

6+35 $\frac{59}{}$ B.C. Lt.

6+04 $\frac{59}{}$ E.C.

5+81 $\frac{22}{}$

5+58 $\frac{05}{}$

5+34 $\frac{78}{}$ B.C. Rt.

chd.
30.91

"

chd.
23.25

"

Central ∠s,
163° 30'
136° 15'
109° 00'
81° 45'
54° 30'
27° 15'

Defl ∠s,
10° 00'
6° 40'
3° 20'

Δ = 163° 30'
R = 65'
L = 185.48'

Δ = 20° 00'
R = 200'
T = 35.27'
L = 69.81'

P.I. Hub.

		Chd.	Defls		
11+90 17	EC		27°-45'		
		24.90			
11+65 27			23°-48'		
		"			
11+40 36			19°-50'		
		"			
11+15 45			15°-52'	Δ =	55°-30'
		"		R =	180'
10+90 54			11°-54'	T =	94.70
		"		L =	174 36
10+65 63			7°-51'		
		"			
10+40 72			3°-58'		
		24.90			
10+15 81	P.C. Lt.				
10+00					
9+75					
9+50					
9+21 98	EC				
				Δ =	2°-00'
9+04 53				R =	1000'
				T =	17.46
8+87 08	P.C. Rt			L =	34.90

P.I. Hub

P.I. Hub.

12+15Rt = 2+04 Drinking Fountain

11+90Lt E.C.

Levels College Ave
El Cajon S/L

10+34.52 - N.L. Estelle

7+84.52 E.C.

5+27.68 B.C.R.T.

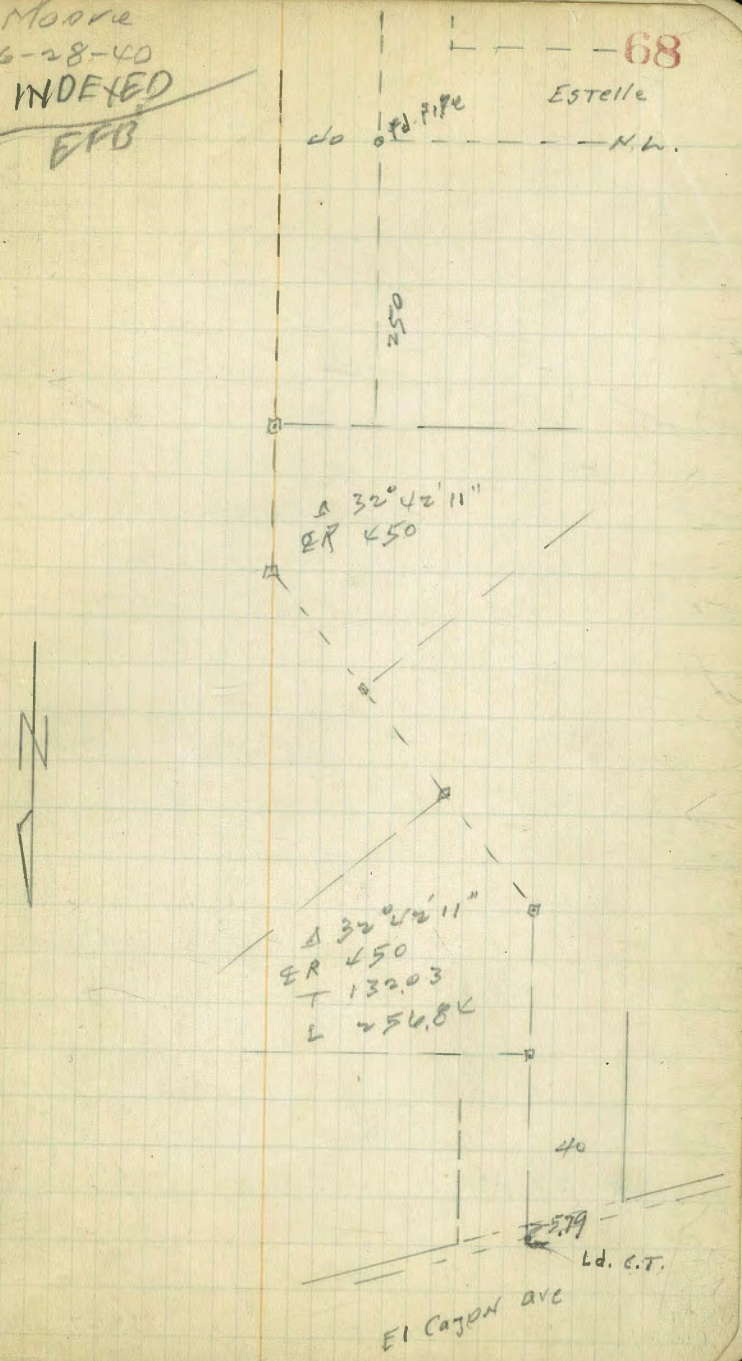
3+92.52 E.C.

Set ✓ on R/W

1+35.68 B.C.L.T.

0+05.79 = S.L. El Cajon Ave
0+00 Ld. & C.T. in pav.

Moore
6-28-40
INDEXED
EFB



+50		Cont'd P 71			
↓					
+50					
Y.P.	0.6↓	454.3↓ ✓	12.9↓	453.7↓	
3					
+50					
↓					
+50					
1435.68	BC RT.				
NNBP	1.37	466.6↓ ✓		465.2↓	El Cajon College

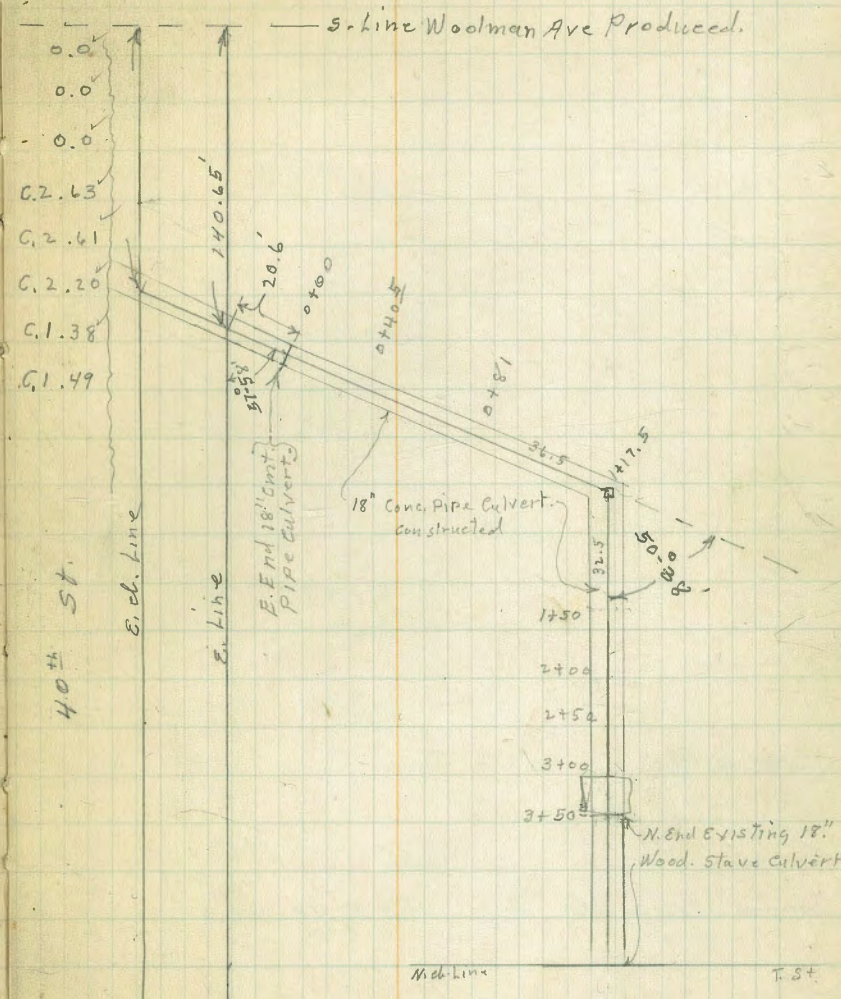
LT	℄	RT
10.5	448.8	
5.3	449.0	
1.9	452.8	
454.3↓ ✓ (2)		
10.6	456.0	
8.0	458.6	
6.7	459.9	
5.1	461.5	
4.8	461.8	
466.6↓ (5)		

Culvert Grades.
Mt. View Park

BM.	1.86	69.72		67.86	Page 61 Grade Bottom Pipe
0+00 Ex. 18" Pipe Present F.L.			3.27	66.45	
" " " " To Be Lowered Bottom Pipe			4.06	65.66	65.50 / 4.22 Rod
0+40 E			5.60	64.12	64.15 / 5.57 Rod
0+81			6.90	62.82	62.80 / 6.92 Rod
1+17.5 Δ			5.21	64.21	61.58
1+50			6.37	63.35	60.74
2+00			8.07	61.65	59.45
2+50			10.18	59.54	58.16
3+00			11.36	58.36	56.87
3+50 E	Ex. 18" Wood Culvert. Bottom				55.57
" " " " " F.L			13.90	55.82	

12.32 / 1.58 / 13.90

36.5 / 81 / 117.5



7

+50

6

+65

+50

5+47.68 BC LT.

+20 PROP 18" CULV. AT 90°

5

454.34

FROM PLG

LT ℄ RT

443.1
11.7

442.8
11.5

440.8
13.5

440.7
14.1

437.1
17.7

437.7
17.1

438.9 437.1 435.4
15.4 17.7 19.0
50 55

439.7
14.6

454.34

T

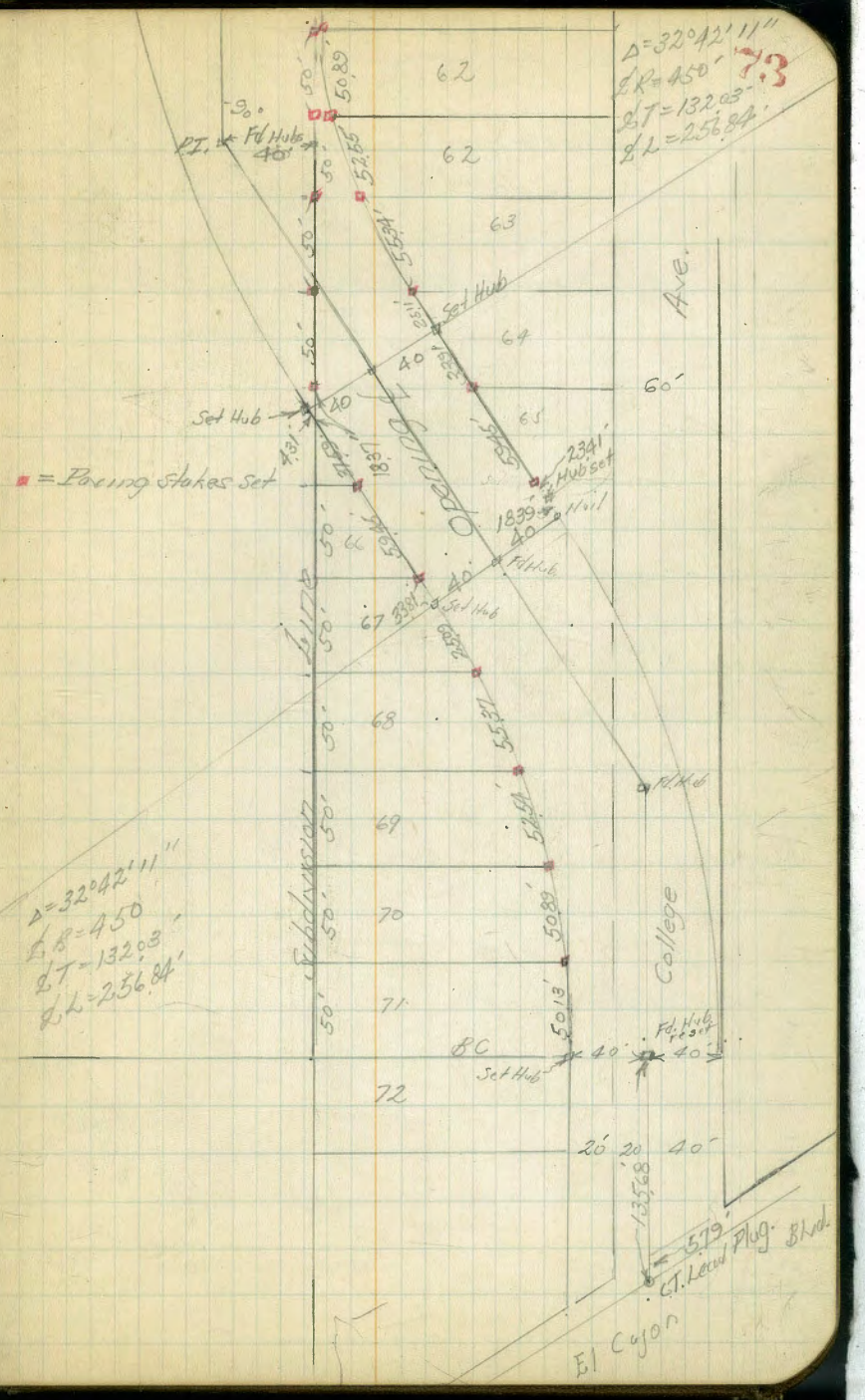
Top of SW	Estate Ave College Ave	6.44	438.93 ✓	432.86	
+3V.5N					
10					
+50					
9	Prop. 18" C/L at 90°				
+50					
T.P.		4.04	445.37 ✓	13.03	441.31
8					
7+84.5N EC					
7+50					

LT	℄	RT
	442.8	
	2.6	
	440.6	
	4.8	
	437.2	
	8.2	
436.7	437.6	433.0
8.7	10.8	12.4
45		55
	438.6	
	6.8	
	445.37 ✓	
	441.0	
	13.3	
	441.7	
	12.6	
	442.3	
	12.0	

Walker
Bliss
Isbell
11-23-40

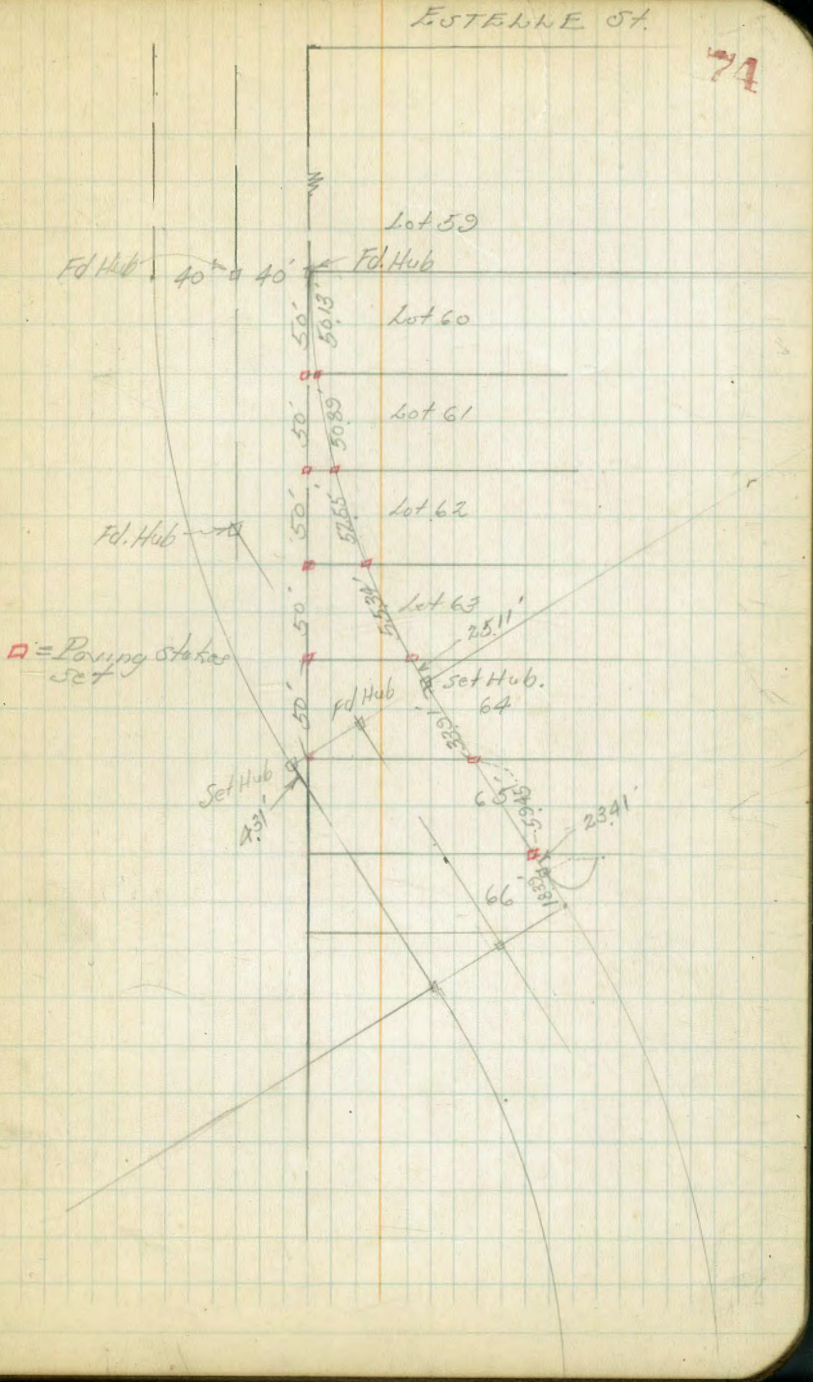
Location Street Line as per
OPENING LINE Gilchrist Tract
Drawing 5925-L
From B.C. on N line Lot 71, South-
Station Deflection chords.
East line See P-68

E.C.	16°21'05"	25.09'
Lot 68-67	11°35'48	55.31
Lot 68-69	10°45'46"	52.50'
Lot 69-70	7°02'29"	50.86
Lot 71-70		
0+50	3°30'07"	50.09
0+00	B.C.	



Cont. from P. 73

Proposed Opening
As Per Drawing 5925-L



	June	77 Days
J. Munday	-5201 - 5-6-7	7
W. Davis	- 11464 - 5-6-	4
S. Herman	9865 - 5-6-7	3½
C. Wright	0735 - 5-6-7	5
C. Dykens	14511 - 6-7	7½
a. Kirk.	16205 - 7	5
J. Coleman	10875 - 7	6
G. Markwell	13615 - 7	6½

	May	Days
P. Prendez	15603 - 17-18-19-22	4 ✓
J. Ring	11703 - 17-18-19-22-23	4½ ✓
F. Hibe	13204 - 17-18-19	2½ ✓
J. Morgan	10598 - 17-18-22-23	4 ✓
J. Williams	4561 - 17-18-19-22-23-24-25-26	8 ✓
J. Samuels	10119 - 17-18-19-22	3½ ✓
L. Montgomery	8561 - 17-18-19-22	4 ✓
J. Haynes	7448 - 17-18-19-22	4 ✓
R. Reeves	6976 - 17-18-19-22-23	4½ ✓
F. Kemp	14897 - 17-18-19-22-23	5 ✓
J. Rodriguez	14925 - 17-18-19-22	4 ✓
R. Martin	13177 - 17-18-19-22	4 ✓
P. Martinez	8439 - 18-19-22-23-24	5 ✓
F. Raza	8452 - 18-19-22-23 on bridge	8
J. Guerrera	2772 - 18-19-22-23-24-25	6 ✓
H. Ball	12315 - 18-19-22-23	4 ✓
H. Stupp	12906 - 18-19-22-23-26	5 ✓
M. Guirones	11624 - 18-19-22-23-24-25	6 ✓
H. Goodin	11212 - 18-19-22-23	4 ✓
J. Moreno	11025 - 22	1 ✓
H. Blanco	11988 - 22-23-24	3 ✓
L. Paden	11809 - 22-23-24-25	4 ✓
F. Ortega	14531 - 22-23-24-25-26	5 ✓
W. Hubbs	12677 - 22-23-24-25-26	5 ✓
F. Stubbs	4694 - 22-23-24-25-26	5 ✓
C. Macias	2943 - 22-23-24	2½ ✓

	May	
J. Dyer	15346 - 23-24-25 ✓	2½
a Marlow	15660 - 23 Working at bridge.	3½
a Mellinck	11451 - 22-23-24-25-26 ✓	5 ✓
S. Betancor	7831 - 24-25-26-29-31-1-2-5-6	9 ✓
a Elias	8515 - 25-26-29-31-1-2	6 ✓
C. Gleason	11418 - 25-26-29-31	4 ✓
G. Lewis	15286 - 24-25-26-29	4 ✓
G. Cannon	11662 - 25	7 ✓
N. Vito	? - 26-29-31-1-2-5-6	7 ✓
S. Mahoney	15340 - 26-27-29-31	4 ✓
J. Malellin	9123 - 26-27-29-31-1	5 ✓
J. Moreno	11025 - 29	1 ✓
W. Brelsford	14889 - 29-31-1-2	3½
H. Casebeer	11869 - 31 Bridge	4
F. Webb	15986 - 31 Bridge	3½
H. Peterson	11048 - 31-1-5-6	4 ✓
M. Arellano	5744 - 1-2-5-6-7	6
L. Bellows	12183 - 1-2-5-6-7	6
H. Brucelab	11153 - 1-2-5-6-7	4 ✓
Denny Bolin	8379 - 1-2 ✓	4
H. Blanco	15778 - 1-2-5-6	4 ✓
C. Wilson	10594 - 1-5-5-6	4½
C. Morales	8592 - 5-6-7	5
B. Burroughs	9775 - 5-6	2½
B. Rodriguez	4147 - 5-6-7	6
P. Chavez	8635 - 5-6-7	6

			Days
L. Mahoney	C# 15340	25-26-27-1-4	4 ✓
G. Markwell	" 12615	May 1	½ ✓
M. Necochea	9019	" "	½ ✓
H. Peterson	11048	May 1-2-3-4	4 ✓
J. Anderson	14897	May 1	1 ✓
C. Dickens	14511	" 1	1 ✓
S. Bellows	12183	" " 1-2-3-4-5	5 ✓
H. Truesdale	11153-B	" " 1-2-3-4	4 ✓
C. Gleason	11418	" 1	1 ✓
G. Jacques Jr	9272	" 1	1 ✓
M Davis	11464	" 2-3-4-5	4 ✓
G. Markwell	12615	" " 2-3-4-5-8	5 ✓
E Savin	8165	" " 2-3	2 ✓
B. Burroughs	9775 / 14879	" " 2-3-4	2½ ✓
A. Herron	?	" " 2-3	1½ ✓
J Hayden	12458	" " 2-3-4	3½ ✓
Wm Hayden	6815	" " 2-3-4-5	5 ✓
A. Vidal	8576	" " 3-4-5-8	4 ✓
L. Beers	7150	" " 3-4-5	2½ ✓
G. Adkins	8360	" " 3-4-5	2½ ✓
J. Yeargin	5955	" " 3	½ ✓
J Munday	5201	" " 3-4-5-8-9-10-11-	7 ✓
H. Ball	12315	" " 3	1 ✓
E. Neal	6537	" " 3-4-5	3 ✓
D. Wilfley	14831	" " 3-4-5	2½ ✓

		Days
C. Morales	8592 May 4-5-8-9-10	5 ✓
N. Acosta	11005 4-5	2 ✓
I. Learn	10480 4-x-x-x-x-x-18-19	2½
C. Dickens	14511 4-8-8-9-10-11-12-15	7½
F. Wroten	10940 4	1 ✓
J. McClure	15116 4-5-6-8-9-10	5½ ✓
C. Wright	10735 5-8-9-10-11	5 ✓
P. Chavez	8635 5-8-9-10-11-12	6 ✓
S. Herman	9863 5-6-8-9	3½ ✓
J. Kent / J. Anderson	14897 8	1 ✓
M Necochea	9019 8-9-10-11	3½ ✓
C Gleason	11418 8	1 ✓
L Sanchez	5952 5-8-9-10-11	5 ✓
C Heaton	14865 8-9-10	2½ ✓
A Herron	6006 8-9-10-11-15	10
D. Romine	10318 8-9-10-11-12	4½ ✓
J. Dreyer	12170 8-9-10-11	4 ✓
G. Herrera	12593 8-9-10-11	4 ✓
N. Wilden	5010 8-9-10-11-12-15-16-17	7½
R. Gallegos	15753 9-10-11-12	4 ✓
R. Comacho	3699 9-10-11-12	4 ✓
R. Daniels	6920 9-10-11-12-15-16	6 ✓
H Ball	12315 10	1 ✓
G. Jacques	9272 10-11-12-15-16	4½ ✓
P Harbin	9726 10-11-12-15-16	4½ ✓

	May	Days
C.	MacGregor - 13412 - 11-12-13-16-17	5 ✓
G.	M. Foreman - 1267K - 11-12-18-19-22	3½
M.	B. Hermus - 10245 - 11-12 Cemetery	6 ✓
H.	E. Downs - 15190 - 11-12-15-18-19	4 ✓
J.	J. Coleman - 10875 - 11-12-17-18-19-22-23	7 ✓
F.	F. Wroten - 10940 - 12	1 ✓
S.	S. Edward - 14418 - 12-15	2 ✓
H.	R. Wise - 14083 - 12-15-16-17-18	5 ✓
C.	G. Sharples - 11773 - 12	2 ✓
G.	N. Acosta - 11005 - 15-16-17-18-19	5 ✓
M.	C. Gleason - 11418 - 15	1 ✓
G.	R. Brown - 9841 - 15-16-17-18-19	4½ ✓
C.	R. Moreno - 7620 - 15-16-17-18-19-22	5½ ✓
B.	a Meyer Fr Sprague - 15385 - 15-16-17-18-19	5 ✓
a.	H. Holmes - 11571 - 15-16-17-18-19-22-23	8 ✓
J.	a. Pedrini - 14417 - 15-16-17-18-19	5 ✓
M.	G. Rago - 12147 - 16-17-18-19	4 ✓
a.	C. Mellenhauer - 8208 - 16-17-18	2½ ✓
S.	S. Casillas - 11303 - 16-17	2 ✓
G.	O. Darley - 12875 - 16-17-18	2½ ✓
J.	a. Cesena - 11336 - 16-17-18-19	4 ✓
S.	S. Bellows - 12183 - 16-17	2 ✓
H.	F. Wroten - 10940 - 18-19-24-25-26	5 ✓
C.	G. Cannon - 11662 - 18-19-22-23-24-25-26	7 ✓
D.		

IMPROVED TABLES

AND

INFORMATION

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1½ 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 No. 9.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections.

Degree of curve with a given I may be found by dividing tangent, (or external), opposite I by given tangent, (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

82.18
8.71

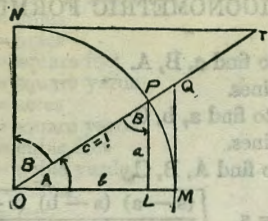


TABLE II

TRIGONOMETRIC FORMULÆ.

$\angle A = \angle MOP \qquad \angle B = \angle PON = \angle OPL$

$R = OB = c = 1$

$$\sin A = \frac{a}{c} = \frac{a}{1} = a = \cos B = LP$$

$$\cos A = \frac{b}{c} = \frac{b}{1} = b = \sin B = OL$$

$$\tan A = \frac{a}{b} = \frac{MQ}{OM} = \frac{MQ}{1} = MQ = \cot B = MQ$$

$$\cot A = \frac{NT}{ON} = \frac{NT}{1} = NT = \tan B = NT$$

$$\sec A = \frac{OQ}{OM} = \frac{OQ}{1} = OQ = \csc B = OQ$$

$$\csc A = \frac{OT}{ON} = \frac{OT}{1} = OT = \sec B = OT$$

$$\text{vers } A = \frac{LM}{OP} = LM = \text{covers } B \#$$

$$\text{covers } A = \frac{OP - LP}{OP} = OP - LP = \text{vers } B$$

$$\text{exsec } A = PQ = \text{coexsec } B$$

$$\text{coexsec } A = PT = \text{exsec } B$$

$$\sin \tfrac{1}{2} A = \sqrt{\frac{1 - \text{Cos } A}{2}} \qquad \cos \tfrac{1}{2} A = \sqrt{\frac{1 + \text{Cos } A}{2}}$$

$$\sin 2A = 2 \sin A \cos A \qquad \cos 2A = \cos^2 A - \sin^2 A$$

$$\text{Law of Lines} \quad \frac{\sin A}{a} = \frac{\sin B}{B} = \frac{\sin C}{C}$$

$$\text{Law of Cosines} \quad c^2 = a^2 + b^2 - 2ab \cos C$$

$$\text{Law of Tangents} \quad \frac{a+b}{a-b} = \frac{\tan \tfrac{1}{2}(A+B)}{\tan \tfrac{1}{2}(A-B)}$$

223 45
182 59 from P.T. to Tangent
40 91
6962 97
6922 06

180 03 30
70 01 45
179 59 60
89°58'45"

10.32
3.75
14.07

3 | 182°15' | 600
180
1135 | 45 40
12
26
2
120
121 30 30

23100 — 50' — ℄ old location — ℄ New location
16747.03 — 39'

Malcolm
306' - Logan Ave.
30"
177
46 15

10.8
16.67
10.65
21.33
10.67
32.00