

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

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

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

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

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

FOR TANGENTS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.03	.06	.09	.13	.16	.19	.22	.25	.28	.31	.34	.38	.42	.46
15°	.04	.10	.14	.19	.24	.29	.34	.39	.45	.51	.53	.58	.63	.68
20°	.06	.13	.19	.26	.32	.39	.45	.51	.58	.65	.72	.79	.84	.90
25°	.08	.16	.24	.33	.40	.49	.58	.67	.75	.83	.90	.99	1.06	1.14
30°	.10	.19	.29	.39	.49	.59	.69	.79	.89	.99	1.09	1.20	1.29	1.39
35°	.11	.22	.34	.47	.58	.69	.79	.89	.99	1.04	1.29	1.42	1.54	1.66
40°	.13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94
45°	.15	.30	.44	.60	.76	.91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21
50°	.17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48
55°	.19	.38	.57	.76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77
60°	.21	.42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07
65°	.23	.46	.69	.93	1.16	1.40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39
70°	.25	.51	.76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72
75°	.27	.56	.83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09
80°	.30	.61	.91	1.22	1.53	1.84	2.15	2.46	2.78	3.10	3.44	3.78	4.12	4.46
85°	.33	.66	1.00	1.33	1.68	2.02	2.36	2.70	3.05	3.40	3.77	4.14	4.53	4.89
90°	.36	.72	1.09	1.45	1.83	2.20	2.57	2.94	3.32	3.70	4.10	4.50	4.91	5.32
95°	.39	.79	1.19	1.55	2.00	2.40	2.80	3.20	3.61	4.02	4.40	4.98	5.38	5.83
100°	.43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34
110°	.51	1.03	1.58	2.08	2.61	3.14	3.67	4.21	4.76	5.31	5.86	6.43	7.01	7.60
120°	.62	1.25	1.93	2.52	3.16	3.81	4.45	5.11	5.77	6.44	7.12	7.80	8.50	9.22

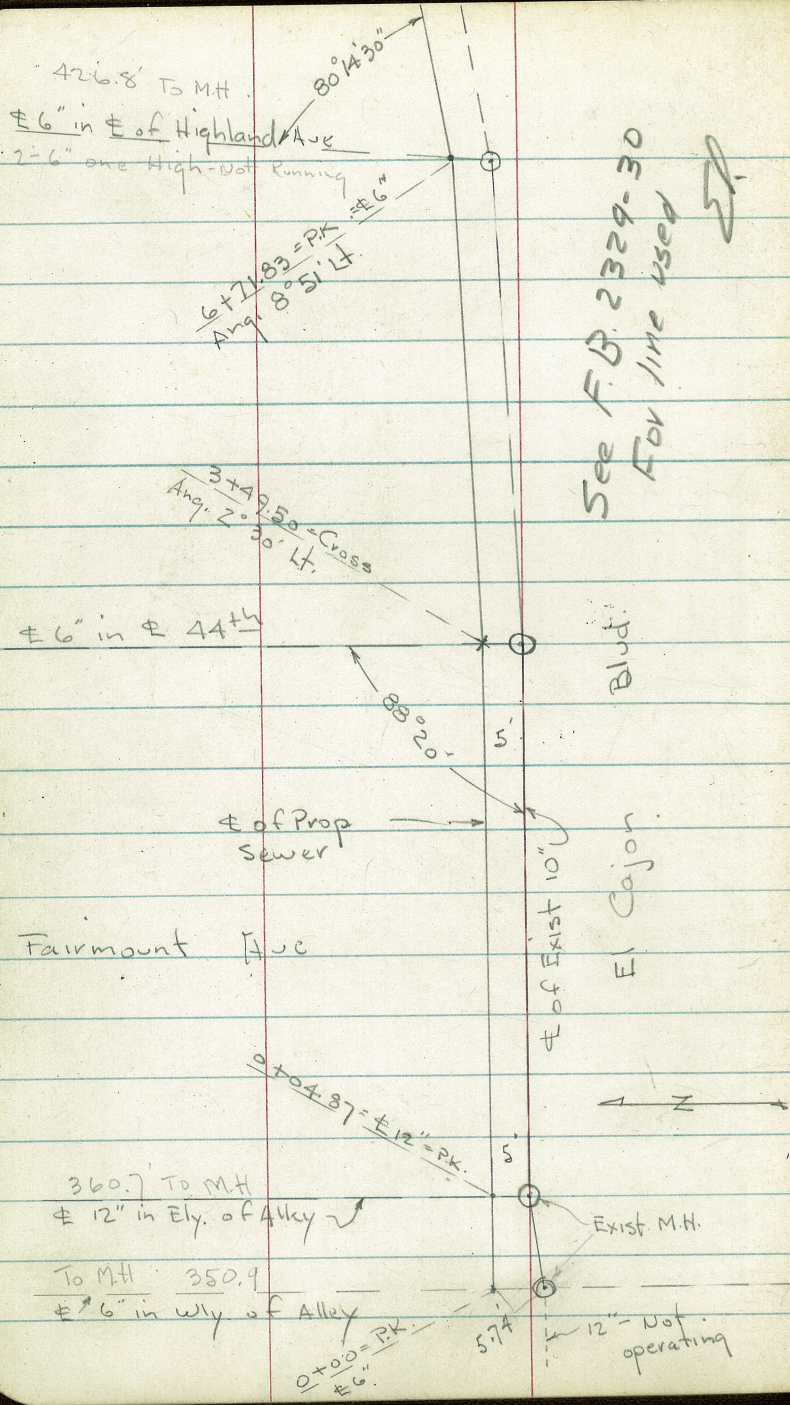
FOR EXTERNALS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.032	.035	.039	.043	.047	.051	.055
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	.036	.046	.056	.065	.074	.083	.093	.106	.120	.127	.135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.711	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.286	.383	.480	.578	.678	.777	.877	.977	1.07	1.18	1.29	1.39
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.885	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

Location of water line on El Cajon

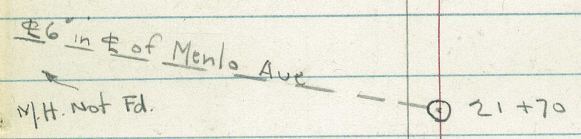
Fairmount to Highland 11-12

Proposed Sewer: LA MESA Colony } 13
 AMHERST Ely to }
 68th ST }



INDEXED
 MER
 JUL 29 1954

See FB 2329-30.



26+84.08 = \pm
Exist. M.H. = Encl.

475' To M.H.
6" \pm 47'5"

M.H. 99.2'
12" Line \rightarrow

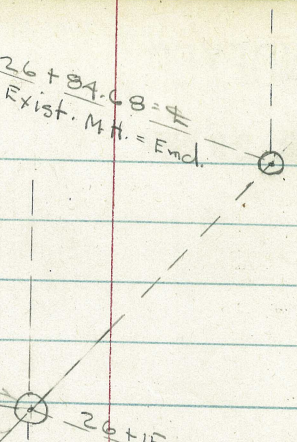
26+08.18 = PK
Ang. 42°46'30" Rt

26+15.68 = POT.
Exist M.H. = Connect here



\pm Prop. Sewer \rightarrow

\pm of Exist 10" Blud.
El Cajon



Beg. Levels along \pm of Prop. Sewer N. of
Exist 10" in \pm of El Cajon Blvd. - from
Alley W. of Fairmount to 47th -
See sketch - P. 1 & 2

21267
w.O. 21627 - 7-21-54 7.0.

6.7 Rt. = Nose \pm of Island.
+35.8 - end of AC Cover - Beg. Conc.

Base for signal
+26.8 - 3.6 Rt. = gut. of Island at Wly of Conc.

+17 - 3.4' Rt. = gut. at P.C.

+00

+50
Fairmount \pm El Cajon.
Set B.M. on Prop. +13' Line Cross - N.W. Cor. 351.37

+10 - 4.4 Rt. = gut. of Island cb.

Rods on M.H.

+04.87 = Cross \pm of 12" - 5' N. of M.H.

+00 on \pm

+00 = Prop. M.H. on 6" Line 5.74 N. of M.H.

Conc. Pavc Covered with AC.

M.H. on 12" - 360.7 N. of +04.87

M.H. on 6" Line - 350.9 N. of +00

B.M. = S.W. B.P. 45th + El Cajon 357.29

Lt.

\pm

Rt.

3

51.87 51.93
+1.9 =
E + W
Crack
52.01
6.7 = gut.

52.13 52.57 54.61
3.6 Top 4.3
gut. Top
Base

52.23 52.33 52.62
3.4 Top
gut.

52.50 52.60 52.91
3.6 Top = Island
gut. cb.

52.92 53.05 53.34 = Top cb
4.4 = gut. of Island.

53.11 44.24 = I.E.
of \pm of M.H.

52.99

53.05
on PK

44.69 = I.E. 6" to N.
47.43 = I.E. 12" stub. to W. Not used.
53.42 = Rim of M.H.
47.07 = 6" to 5.
44.50 = I.E. of \pm

49.69 = Rim 45.04 = I.E.

49.37 = Rim 44.94 = I.E.

Actual. Elev. Shown - 300' Fig. Not Noted.

LT † Rt. 4

4+50

54.18 54.25 54.37
3.7 6.3
Crack Crack

4+00

53.58 53.71 53.83
5.8 4.1 = Crack
Crack = †
Joint

= † 6 To N. - 1.9 Rt. = crack
3+49.50 = Ang Pt - 5' Rt. = † Exist M.H. = † 44th

53.20 53.33 43.42 44.66
on Cross. 5 † †
Rim I.E. I.E.
N. N.

Beg. A.C. Island.
= end of Island.

3+19.5 - 7.1 Rt. = gut. † of Nose of 3 Island.

53.08
7.1 = gut.

3+00

52.63 52.70 52.78 53.28
2 5 Top
Crack. gut.

2+50

52.16 52.23 52.29 52.79
2 4 Top
Crack gut.

2+09.5 - 3.2 Rt. = Ang. in gut. of island

2+02 - 3.9 Rt. = gut. at end of Conc. Nose

52.06 52.67
3.9 Top
gut.

2+00 = † of Signal in † of Island.

51.90 51.98
2 = Crack

1+93.6 - 6.9 Rt. = gut. at † = Nose of Island.

52.07
6.9 = gut.

1+50

51.82 51.87
2.1 = crack

Lt.

±

Rt.

5

8+00

56.56	56.62	56.66
1.5		3.5 = ± Island
Crack		10'

7+50

56.40	56.41
1.5	
crack	

± island - Normal
 7+00 - Line is 1.8' S. of edge of Conc. - in AC

56.19	56.21
1.5	
crack	

± Highland
 6+71.83 = Ang Pt - on 6" Line to N - 4.75 Rt. = E. M.H.

57.32	50.66	56.05	56.10	56.04	42.88	43.10	48.84
426.8	IE	1.5 on	on P.K.	4.75	IE	IE	IE
± MH	±	6" of	crack	Rim	±	6" to N	6"

6+61 = Cross edge of Conc. & AC

6+50

55.90	55.93
	1.5 = Crack

6+20

55.48	55.65	55.79
5.4		4.6 = Crack
Crack		

5+90

55.31	55.39	55.59
3.1		6.9
Crack		Crack

5+60

55.12	55.17	55.43
1.8		8.3
Crack		Crack

5+30

54.84	54.91	55.18
1.3		8.8
± Crack		Crack

5+00 = approx P.C. of Island cracks

54.68	54.68	54.86
1.7		8.4
Crack		Crack = edge of A.C. island

Lt. ± Rt.

^{Cross}
12+48.5 = ± of 6 wide Red. Tunnel - 7' High

58.29 58.32 45.92
1.4 Top of Pavc ± Bottom of
Crack Tunnel

12+00

58.10 58.12
1.4
Crack

11+50

57.90 57.94
1.4
Crack

11+00

57.67 57.73
1.4
Crack

10+50

57.49 57.54
1.4
Crack

10+20.5 - 5' Rt. = ± M.H. - 10" Thru.

57.40 57.43 42.00
5 = Rim IE. of
±

10+00

57.26 57.34 57.39
1.4 3.6 = ±
Crack Island

9+50

57.09 57.18
1.5
Crack

9+00

56.97 57.06
1.5
Crack

8+50

56.74 56.82
1.5
Crack

17+00

Lt. 55.14

± 55.16

1.5
Crack

16+50

55.66

55.64

1.5
Crack

16+00

81

56.19

56.18

56.03

1.5
Crack

3.5
± Island.

15+50

56.74

56.71

1.4
Crack

check S.W. B.P. Chamoune + El Cajon 356.58 = Book

15+00

57.30

57.26

1.4
Crack

14+50

57.80

57.80

1.4
Crack

14+00

58.26

58.27

1.4
Crack

13+70.2 - 4.7 Rt. = ± M.H. = ± of Chamoune to N

10" Thru.

58.48

58.33

41.49

w. Rim

I.E. of ±

13+50

58.54

58.53

1.4

13+00

58.47

58.50

58.40

1.4
Crack

3.4
± island

21+00

52.25
1.5 52.27

20+50

52.60
1.5
Crack 52.59

20+00

52.90
1.5
Crack 52.92

19+50

53.20
1.5
crack 53.21

19+00

53.55
1.5
Crack 53.55 53.40
3.5' ±
Island.

18+50

53.93
1.5
Crack 53.91

18+34.3 - 4.9 Rt. = ± M.H. - 6" To S. - in ± of 46th

54.03 53.86 40.36 =
4.9 I.E. of ±
Rim ± 6" To S.

18+00

54.31
1.5
Crack 54.29

17+60

54.62
1.5
Crack 54.61

Check S.W. B.P. - 46th

353.01 - 353.00 = Book

17+21.03 = P.O.F. - 5.11' Rt along 6" Line = M.H.

54.13 = Rim
42.98 = I.E.
181.9 = E
M.H.

54.95 54.95 54.95 42.08 40.70
1.5 I.E. of I.E. of
Crack Rim 6" To N. ±

= Cross 6" Line = ± 46th

25+50

47.99 47.98
1.5
Crack

25+00

48.40 48.40
1.5
Crack

24+50

48.78 48.79
1.5

24+00

49.31 49.31 49.20
1.5
Crack 3.5 = \pm Island.

23+50

49.80 49.80
1.5
Crack

23+37.7 - 5.1 Rt = \pm MH. - 2-6' Lines to S. in \pm of Alley

49.93 49.80 39.46 39.78 43.00
5.1 I.E. of \pm I.E. of I.E.
Rim 6' top 6' top 7.5.

23+00

50.29 50.30
1.5

22+50

50.84 50.84
1.5
Crack

22+00

51.35 51.34 51.22
1.5 3.5 = \pm Island.

21+70 - 5' Rt = \pm MH. - 6' Line to N. in \pm of Menb. - No MH Pcd. to N.

51.67 51.69 51.50 39.71 40.90
1.5 5' \pm I.E. of I.E.
Rim I.E. 6' to N.

check S.W. B.P. - 47 \pm 347.70 = Book

21+50

51.84 51.86
1.5
Crack

26+84.68 = \pm M.H. on active 12" Line

26+15.68 = \pm of M.H. = End = Connect

26+08.18 = Ang. Pt.

39.91
I.E.
"C 6"

46.82^{Rim} 39.10 47.68=Rim 47.31
 \pm M.H. on 12" 992 N. of \pm M.H. - Rim
6" - 475' N. (Some flow) Here
27.57 47.56
1.5 on PK.
Crack

45.80 38.40
I.E. of \pm

38.74 38.98 38.91
 \pm I.E. = I.E. of
for Active 12" 12" 6" to N.
lines to U.

Location of water line
along El Cajon Ave.

8-24-54 w.o. 21267

Fairmount to Highland.

C.H.S.
Bogg
Schelin
Pulley

Nly. edge conc. Pavc. = Baseline

No ties to Prop. \therefore 0+00 = 50'

Wly. of ϕ of Fairmount to North

NI = { water line as marked
by water Dept.

2+30

$\frac{W}{52}$

1+89

$\frac{W}{48}$
~~48~~
~~W~~

1+10

$\frac{W}{42}$

0+45

$\frac{W}{75}$

0+05

$\frac{W}{103}$

0+00 = 50' Wly. of ϕ Fairmount
To North

B.L. = Nly. Edge Conc. Pavc. 11

7+45

7+04

6+40

5+92

5+70

5+62

5+41

4+30

3+31

2+83

$\frac{W}{64}$

$\frac{W}{56}$

$\frac{W}{55}$

$\frac{W}{59}$

gate
60

Gate
58

$\frac{W}{45}$

$\frac{W}{73}$

$\frac{W}{70}$

$\frac{W}{54}$

B.L.

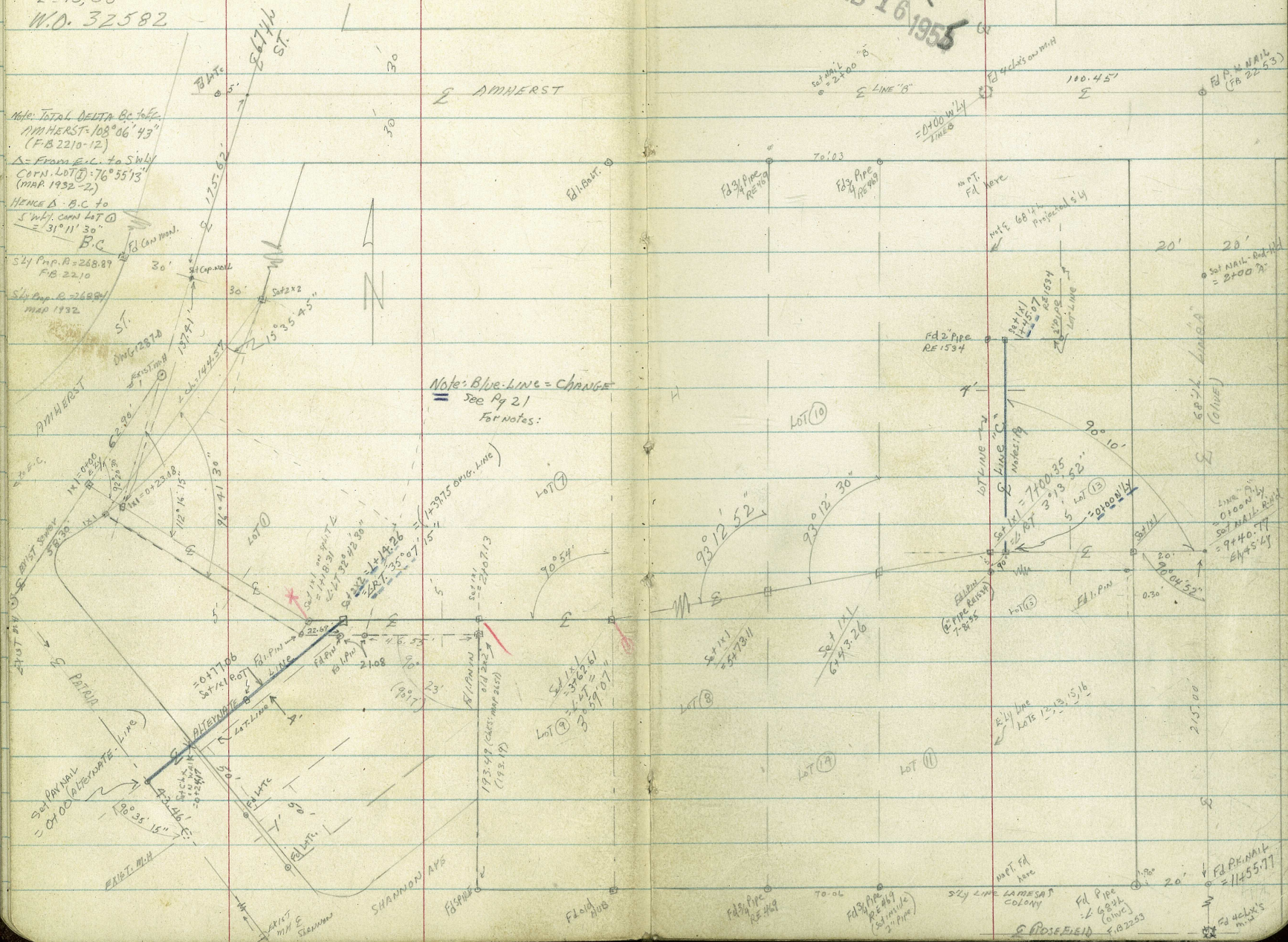
12

Clare
Shepherd
Bruney
ONEIL
2-15-55
W.O. 32582

Proposed Sewer - AMHERST ELY
to 68th (GIVE); LAMESA COLONY

Ref: FB 2210-12
#2253-22
#1767-36
MAP 1932-2
ASSESSORS MAP TCA 80

INDEXED
JER
FEB 16 1955



Note: Total Delta BC to be
AMHERST = $108^{\circ} 06' 43''$
(FB 2210-12)
A = From P.C. to S.W.1/4
Corn. Lot 10 = $76^{\circ} 55' 13''$
(MAP 1932-2)
Hence A - B.C. to
S.W.1/4 Corn Lot 10
= $31^{\circ} 11' 30''$
BC
S.W.1/4 P.A. = 268.87
FB 2210
S.W.1/4 P.A. = 268.87
MAP 1932

Note: Blue Line = Change
See Pg 21
For Notes:

Set Nail - Red
= 2+00 7/8"
Set Nail - Red
= 9+40 1/4"
Ely Line
= 100.45'
Set Nail - Red
= 2+00 7/8"
Set Nail - Red
= 9+40 1/4"
Ely Line
= 100.45'

Set Nail - Red
= 2+00 7/8"
Set Nail - Red
= 9+40 1/4"
Ely Line
= 100.45'

Set Nail - Red
= 2+00 7/8"
Set Nail - Red
= 9+40 1/4"
Ely Line
= 100.45'

Proposed Sewer: La Mesa Colony
 AMHERST Ely to 68th, et al

1+18.31 = 1. LT 32° 42' 30"

T.P. 446 431.35 ✓ 11.00 426.89 ✓

1+09.4 / (2 Crosses Board Fence
 = Box qrd = Rim Ditch

1400

0+794 12 RT Box Ditch
 (Note Prop. owner lot D claims he is moving fence out (Wly)
 on Lot Line

0+71.5 5.2 RT = 6 LT (Ely) IN Fence

0+50 5.8 LT = S Wly Corn. House (nearest Corner House
 to Prop. E)

0+44 6.0 RT end Con. Pav. yd.

0+26 5.5 RT Beg 4's Board Fence
 6.0 RT Beg Con. Pav. in yd.

0+00 = P. intake Pump Sewer + S. EXIST. Sewer
 (see sketch)

T.P. 3.63 437.89 ✓ 9.25 434.26 ✓

T.P. 0.62 443.51 ✓ 12.68 442.89 ✓

B.M. 1.87 455.57 453.70 = S.W.B.P. 674th VEL CAJON

LT.

E

RT.

14

429.25
 1.5
 10

428.25
 3.1
 Rim
 Ditch

426.85
 4.5

425.15
 6.2
 3
 5
 Ditch

427.85
 3.5
 10

431.35 ✓

430.89
 7.5
 10

428.19
 9.7

425.57
 12.3
 8
 Ditch

431.89
 6.0
 10

430.89
 7.0
 1.5
 10
 Rim
 Ditch

430.69
 7.2
 10

427.19
 10.7
 10
 Ditch

432.69
 5.2
 10

432.89
 5.0

432.99
 4.9
 5

432.79
 5.1
 10

427.94
 7.95
 62.70
 EXIST. man
 hole

432.99
 7.9
 10

432.8
 5.1

432.4
 5.5
 10

427.12
 10.77
 58.30
 F.L. EXIST
 M.H. SP. 110

437.89 ✓

AMHERST - Ely (Cont)

3462.61 = 1. LT. ~~3° 59' 07"~~
4° 19' 07"

3450

3427 Brk

3400

T.P. 1317 441.49 ✓ 3.03 428.32 ✓

2468.7 E passes thru of 14" Dead Tree

2450

2400 T RT & END Ditch

1462 = Brk

1461 E Crosses Fence = mid Brk

1460 4/5 RT = L LT (N4) Fence

1434 E Crosses Fence
= Brk grid

LT

E

RT

15

430.89
10.6
10

431.29 ✓
10.2

431.99
9.5
10

430.49
11.0
10

430.79 ✓
10.7

431.29
10.2
10

428.09
13.4
10

428.49 ✓
13.0

428.79
12.7
10

risers

risers

441.49 ✓
10

428.45
2.9
10

427.85
3.5

427.75
3.6
10

427.35
10

427.75 ✓
3.6

427.45
3.9
5
Rim

426.65
5.7
7
Ditch

426.65
4.7
10

risers

428.35
3.0
10

427.85
3.5

425.65
5.7
8
Ditch

426.35
5.0
12

431.15
0.2
10

430.75
0.6

429.55
1.8
4.5
Rim
Ditch

427.35
4.0
6
Rim
Ditch

425.65
5.7
8
12

426.35
5.0
12

430.25
1.1
10

428.05
3.3

426.35
5.0
5
Rim
Ditch

426.35

431.35

PIMMERST Ely (cont.)

LT. $\frac{L}{E}$ RT. 16

6149 crosses Temp. 2" Water Line (above grad on temporary 3' piers)

6143 crosses N/S BRACKEN-DON WOOD & WIRE FENCE

6100

	436.05	436.85	439.35
PISES	12.0	11.2	8.7
	10		10

5185 ORK

	436.05	439.15	440.05
	12.0	8.9	8.0
	10		10
	LOW PT		

5194 crosses N/S 5'ly 3' Board Fence

5155 crosses N/S 2" Water-pipe (Temporary) on surface piers

5150

	435.45	438.05	439.05	440.05
PISES	12.6	10.0	9.0	8.0
	36	10		10
	LOW PT			

T.P. 9.83 448.05 ✓ 3.27 438.22 ✓

448.05 ✓

5100

	433.09	438.19	440.69	442.79
PISES	9.0	3.3	0.8	+1.3
	11	10		10
	LOW PT			

4150

	431.99	435.79	437.99	439.39
PISES	8.5	5.7	4.0	2.1
	47	10		10
	LOW PT			

4100

	430.99	432.89	433.99	435.19
PISES	10.6	8.6	7.5	6.3
	37	10		10
	LOW PT			
			441.49 ✓	

AMARIST ELY (CONT)

LT. E RT.

8+50

440.45
7.6
31
LOW PT
442.85
5.2
10
444.45
3.6
445.05
8.0
45
448.55
10.5
10

8+00

- BRK

439.45
86
10
439.95
8.1
441.45
6.6
10

7+50

439.05
9.0
10
439.75
8.8
439.45
8.6
10
MSES

7+0² 35 Δ R. 3° 33' 52" R. Set angle ahead
7+00.35 ← RT. 3' 13' 52" 2' X for line to N.
Parry Newcomb BE

438.65
9.4
10
438.65
9.4
438.65
9.4
10
MSES

6+97.5 } 9.5 RT 89' 5" Steel-Wire Fence
 } Crosses NY South 45' Wire Fence

6+94.46

2.1 RT E - END 3' Temp Culvert

439.05
9.0
10
438.25
9.8
9.1
8
438.24
9.1
2.1
FL
438.75
9.3
10

6+90 = Ely Shoulder Fill

442.35
5.7
10
441.85
6.2
441.05
7.0
10

6+80

= Top Kill - Shoulder

442.95
5.1
10
442.65
5.0
442.25
5.8
10

6+74.7

Req.
7-9 3' Temporary Conc. Culvert

442.55
5.5
10
439.65
8.4
3
439.40
10.2
10.4
9.1
E
9.0
437.65
438.95
441.75
6.3
10

6+50

437.15
10.9
10
437.75
10.3
438.05
10.0
10
448.05
10
MSES

Run this line
7' N. of
for Const.
Atlas wire fence.
to clear
fence.

AMHERST ELY to 6842 (olive)
 & SLY to DENB, EXIST.

11+00

10+50

10+00

9+50

9+40.77

9+40.77

9+31

9+19

T.P.

9+00

Note: Prop. owners claim there is also 10" C.I. water line 10' Ely
 of E. laid approx 12 yrs ago by County.
 5' RT = E Water - Ditch (Laying 8" pipe)
 (on wly side ST.) (water line - 8" pipe)
 (outs 90° SLY TANG) to SLY of ROSE Field

9+40.77 = 6' SLY 89° 55' 08" (outs 90° BK TANG)
 = (0+100 NLY) = 0+02 NLY
 0+02 SLY

= wly edge oil-pave - 6842 (olive)

Cross 5' W/Sout L 5' wire fence
 = wly edge oil-pave 6842 (olive)
 45' RT END 5' wire - steel fence = L NLY fence

10.96 457.01 ✓ 2.00 446.05 ✓ = NAIL & SAW +
 268th STA 9+40.77

LT.	Σ	RT.
452.31	452.57	452.11
4.7	4.5	4.9
65		11
E.P.		E.P.
450.41	450.61	450.21
6.6	6.4	6.8
7		10
E.P.		E.P.
448.11	448.21	447.81
8.9	8.8	9.2
7		10
E.P.		E.P.

446.26
 10.75

446.01 446.05 445.70
 11.00 10.96 11.31
 8 10
 E.P.

445.81 446.05 446.26
 11.15 10.96 10.75
 10 10

445.51 445.70 445.93
 11.50 11.31 11.08
 10 10

457.01 ✓

441.65 444.75 445.65 446.25 447.25
 6.4 3.3 2.4 1.8 0.8
 5 10 7 10
 Low 11

448.05 ✓

AMHERST, 68th - NLY

T.P. 9.08 456.41 ✓ 968 447.33 ✓

2+00

1+54 15.4' RT END CON DRIVE - (31.3 RT end 941)

1+50

1+37 15.2' RT Beg CON. DRIVE - (31.1 RT Beg 941)

1+00

0+50

0+00 NLY = 9+40.77 sly from rd. A line

= end of sly line - Beg Nly line "A"

12+10 = approx. EXIST. D.END

11+92 82' LT = EXIST Sewer facilities at 4811-68th. This House out side dist. but CON not get into D.END - County Sewer - too Low!

11+80

11+55.77 = E 68th

11+39 = sly side House LT. 4817 68th
(EXIST. Sewer facilities on sly side House)

LT.

E

RT.

19

456.41 ✓

446.51 446.81 446.51

10.5 10.2 10.5

9 9

445.41 445.71 445.51

11.6 11.3 11.5

8 8

444.81 445.31 445.51

12.2 11.7 11.5

8 8

445.06 445.41 445.71

11.95 11.6 11.3

8 8

445.70 446.05 446.01

11.31 10.96 11.00

10 8

455.51 455.71 455.21

1.5 1.3 1.8

8404 487's E.P. 13

448.61

826 (Audits off 11' below)

82 82 E.P. 1.75

F.L.W. EXIST. Facilities

454.31 454.61 454.31

2.7 2.4 2.7

8 12.5

457.01 ✓

L.T.

J

R.T.

AMHERST (CONT.)

0+00 NLY 68' L (olive)
LINE "A" / 4 LINE "B" WLY

2.26 453.80 = 453.70 = STG B.M.

CHK:

T.P. 9.62 456.06 ✓ 7.62 446.44 ✓

T.P. 3.50 454.06 ✓ 5.85 450.56 ✓

2+50

450.81 450.71 450.61
5.6 5.7 5.8
15 6
E.P. E.P.

2+00

450.81 450.81 450.71
5.6 5.6 5.7
14 6
E.P. E.P.

1+50

450.81 450.91 450.91
5.6 5.5 5.5
13 6
E.P. E.P.

1+00

450.91 451.21 451.11
5.5 5.2 5.3
12 6
E.P. E.P.

0+50

450.91 451.19 451.01
5.5 5.22 5.4
12 8
E.P. E.P.

0+00 Line "B" (AMHERST cor. with Cold. Lay here)

450.91 441.82 450.71
5.5 14.59 5.7
10 F. Line
EXIST. M.H.

END LINE "A": Beg. LINE "B" } (EXIST. M.H. @ 68' L - NLY)
WLY } 1/2 E. AMHERST = 0+00

2+50

448.21 448.51 448.43
8.2 7.9 7.98
10 10
E.P. E.P.

456.41 ✓

Clark
Shoemaker
Owner

AMHERST + 69th Sewer

7-8-55

ALTERNATE - Line 0400 to 1714.26 = (1439.75)
(0.16 Line)

W.O. 32582

[See Blue-Line - Sketch Pg 13]
ALTERNATE

0+31.9 3.2 LT Reg 6" Conc. Coping

0+24.9 - BK edge walk

0+19.9 = E. Edge 5' sidewalk

0+18 1.5 LT Sly Fe. 16" Palm Tree

0+17.8 7.5 RT - 9" Water Meter

0+17.1 5.8 RT - 9" Water Meter

0+15.9 - N by Vely CB PATION
14' RT - 9" 11.5 Con. Drive

0+00 = PT. inter ALTERNATE LINE
& EXIST. Sewer

T.P. 9.62 <443.36> 10.64 <433.74>

T.P. 1.07 <444.38> 12.79 <443.31>

B.M. 2.40 <456.10> <453.70> = SW. B.P. EL CAJON
46744

IT E RT

21

INDEXED

JUL 12 1955

435.13
8.3 7.83
3.2 3.2
7.6 7.6

435.13
8.23
10

435.47
7.89

435.86

436.37

7.50
8.7
= BK edge
walk + edge drive

6.99
7.2
Edge
drive

435.09
8.07
10

435.06
7.70

435.09
7.37
10

435.18

8.18
6.8
9.7

434.56
8.80
10
9.7

434.91

8.45
9.7

435.55
7.81
CB

435.05

7.91
14
9.7
EXIST Drive

435.99

7.37
30
9.7
CB

436.66

434.73
8.63
10

435.04
8.32

435.37
7.99
10

426.76
16.60
43.46

436.75
6.61
Rim

- A.C. PAVING -

F.L
EXIST. MN

<443.36>

Alternate (CONT.)

0+78.5 = 8" wide open Rocky Conc. gut. Drains = 4' RT & 4" clay Drain Pipe in wall
BUILT N+ 70° E

0+70 15' LT & 8" Peach Tree

0+60

0+58.4

4.0 RT Beg 6" CON. WALL ; 6' Board Fence tp. WALL
4.5 RT end 2' WALK
Yd Bl. Fence & wall Paved

0+58

6.6 LT end House

0+58 = 6' Hedge Planted 90° to 6'
(Hedge ends 6' LT & 5' RT.)

0+55.5

3.9 LT end Coping

0+50

0+39.8

8.5 RTs Beg Garage

0+36.9

5' RT Beg 2' CON. WALK

0+34

6.2 LT Beg House

0+30

LT.

Σ

RT.

431.9

11.5
5
15 DRAIN

433.9 ✓
9.5
2 DRAIN

435.58

7.28
4
FL
4" PIR

432.8 ✓

10.6
10

434.3 ✓

9.1
5

435.1 ✓
8.3

435.5 ✓

7.9
3

436.4 ✓

7.0
4

435.26 ✓

8.10
4
FL
WALL

436.31 ✓

7.05
4
TP
WALL

436.1 ✓

7.22
4.5
WALK

434.4 ✓

9.0
3.9
FL

432.76 ✓

8.60
3.9
TP

432.7 ✓

8.7
5
9.8

435.6 ✓

7.8

436.1 ✓

7.3
5
7.2

436.21 ✓

7.15
8.15
FL

435.96 ✓

7.50
5
WALK

436.06 ✓

7.30
6.2
FL

435.6 ✓

7.8
5

435.8 ✓

7.6

436.0 ✓

7.4
5

44336 ✓

ALT. LINE (CONT.)

(Continued pg 24)

T.P. 12.87 447.52 326 434.65

(For Notes. Orig. Line Here See Pg 15)

1+14.26 = L.P.T. 35° 07' 15"

1+13.57 = Fence (See orig. notes)

1+12 - B.V.K.

1+03 = E Ditch

0+96 - B.V.K.

T.P. 2.42 $\langle 437.91 \rangle$ 7.87 $\langle 435.49 \rangle$ = chx. on WALK
= 0+24.17 ALTERRATE

0+91 1' RT $\frac{1}{2}$ 6' HIGH \times 5' wide CACTUS PLANT.

0+83.5 4' RT END CON. WALL & FENCE

0+82 - B.V.K.

$\langle 443.36 \rangle$

LT. £ RT

23

430.1
7.8

428.0 ✓
9.9

425.1 ✓
12.8

427.8 ✓
10.1
10

427.4 ✓
10.5

427.0 ✓
10.9
5

425.1 ✓
12.8
10
E
Ditch

$\langle 437.91 \rangle$ ✓

436.14 ✓
7.22
4
Wall

434.7 ✓
8.7
4
FTG

424.5 ✓
18.9
15
100

430.7 ✓
12.7
5

433.1 ✓
9.7

435.5 ✓
7.9
4

$\langle 443.36 \rangle$ ✓

AMHERST 1.68'th SEWER
LINE "C"

LT

E

RT

24

[See Blue-line & Sketch Pg 13]

T.P. 6.14 (454.70) 3.92 (448.56)

1+45.07 - LOT LINE

447.7 ✓
4/8
448.3 ✓
4/5
448.5 ✓
4/0
448.6 ✓
3/10

1+30.5 8.7 LT ^{COMBINATIONS} Prop. 984 + Store-room - Laundry Room + 1-room apt. apt on N.ly end Blk

1+01 Line Crosses 5' Wire Fence at 90°

446.5 ✓
6.0
10
447.5 ✓
5.0
5
447.8 ✓
4/7
447.9 ✓
4/6
10

1+00 (6.5' LT to Wire Fence here)

0+69 Line Crosses 4' Wire Fence at 90°

0+50

444.1 ✓
8.4
10
444.8 ✓
7.7
5
445.2 ✓
7.3
445.2 ✓
7.3
10

T.P. 8.50 (452.48) 3.54 (443.98)

(452.48) ✓

0+16 BK

438.5 ✓
9.0
10
438.9 ✓
8.6
7
439.0 ✓
8.5
438.9 ✓
8.6
10

0+00 "C" Line (7' LT to 4.5' Wire-Fence here)

438.8 ✓
8.7

Note: For Levels - 0.00 = PT. 4' E'ly of Sta. 7+00.35
4 5' N'ly of Lot-Line (See Sketch)

447.52

C Line (Cont.)

LT C RT

2167.8 8.5 LT Beg House (SEly Corn)

✓
 451.75
 2.95
 ✓
 449.4 8.5
 5.3 F/lev ✓
 8
 5
 ✓
 449.6 ✓
 5.1 ✓
 5 449.5
 5

2150

2135.8 14.0 LT end House

2113.5 18.5 RT end House (NWly Corn)

✓
 448.7 ✓
 6.0 449.1 ✓
 8 5 449.5 ✓
 5.2 449.6
 5

2100

1493.5 13.7' LT Beg house (SEly Corn)

✓
 451.99
 2.71
 13.7
 F/lev

1480.5 { 18.5 RT Beg house (SWly Corn)
 { 0.1 RT = NWly Corn. garage

✓
 450.17
 2.53
 18.5
 F/lev

1468 { 8.7 LT end gar + Store room + apt. garage
 { 0.1 LT = SWly Corn. gar. (12' wide)

✓
 448.5
 6.4
 8.7
 F/lev

1460

✓
 447.8 ✓
 6.9 448.6 ✓
 8 5 448.9 ✓
 5.8 449.0
 5

1454 { 5.5 LT end wire fence - + Beg 7' wooden-rail fence
 { Line crosses 5.5' LATHE fence at 90°

✓
 454.70
 ✓

C Line (Cont.)

LT.

CF

RT.

CHK:

4.96 $\langle 446.02 \rangle$ 446.05

NOV 9740.77
Pg 18

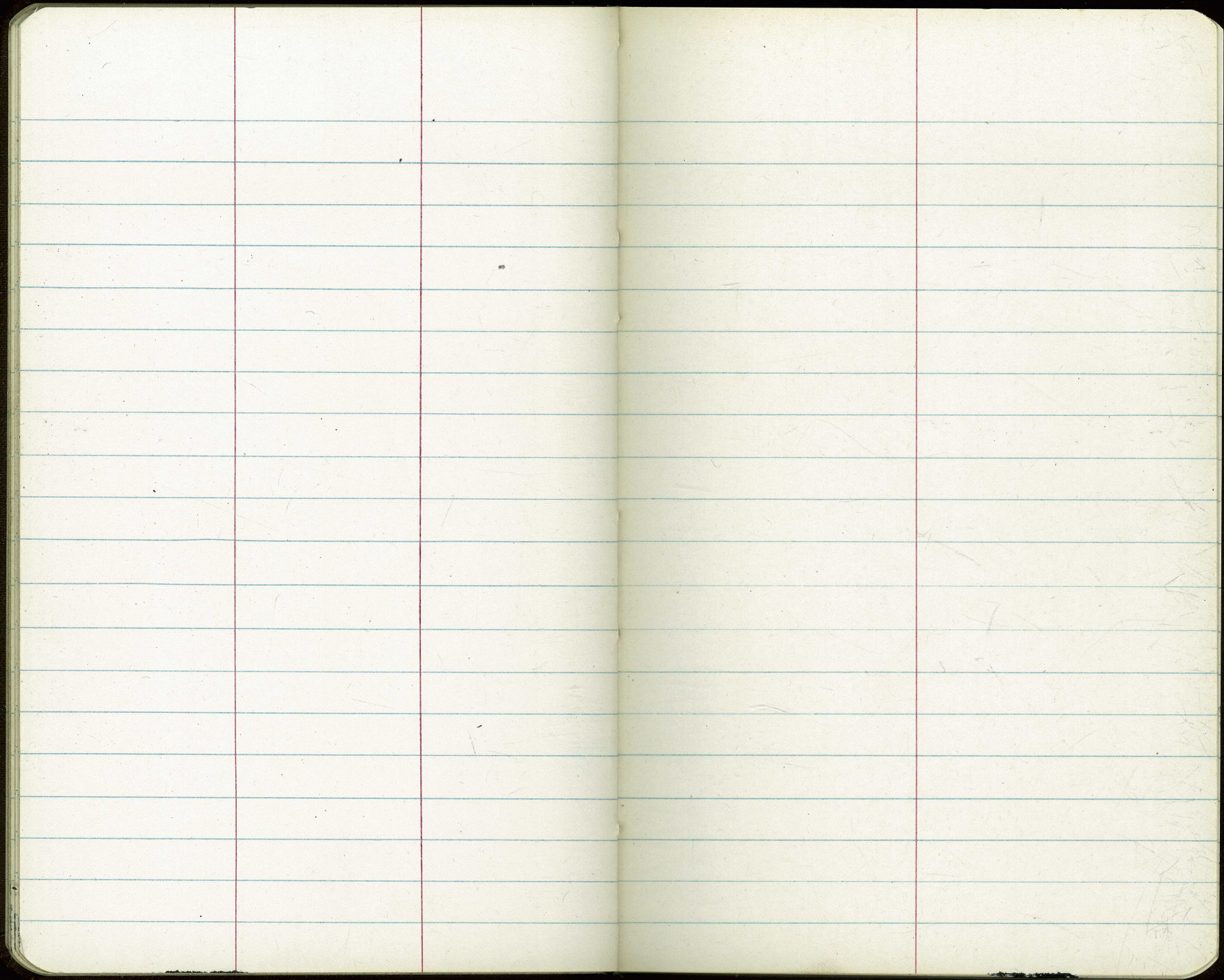
T.P.

5.27 $\langle 450.98 \rangle$ 8.99 $\langle 445.71 \rangle$

3103.8

8.01 LT. end House (NEly Corn.)

$\langle 454.70 \rangle$

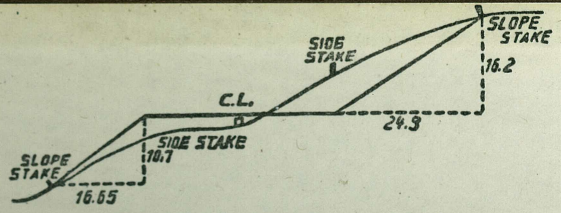


170
150.07

320.07

33.4
 40.7
 74.1 - - 6'

+48.5 = ± 6' x 7' High



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

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

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