1601

1601

CITY ENGINEER

Trojan Ave. 50¢ to Altadena 38-42

East

383.30 .01.46 west 383.8 .01.52

374.5 — 374.6

6) 8.80 — 6) 9.2

8 — 6

28 — 32

24/40 — 30/40

Survey of
C ST. Ext.
35TH to Federal Blvd.

Moore
Osborne
Sand Meyer

4-17-41.

5+57.31 Set 2x2 Int. w/ 36TH ST
See T.P.BK. 19-P9

Fd nail

4+75 P.O.T. 2x2 Hub

3+57.20

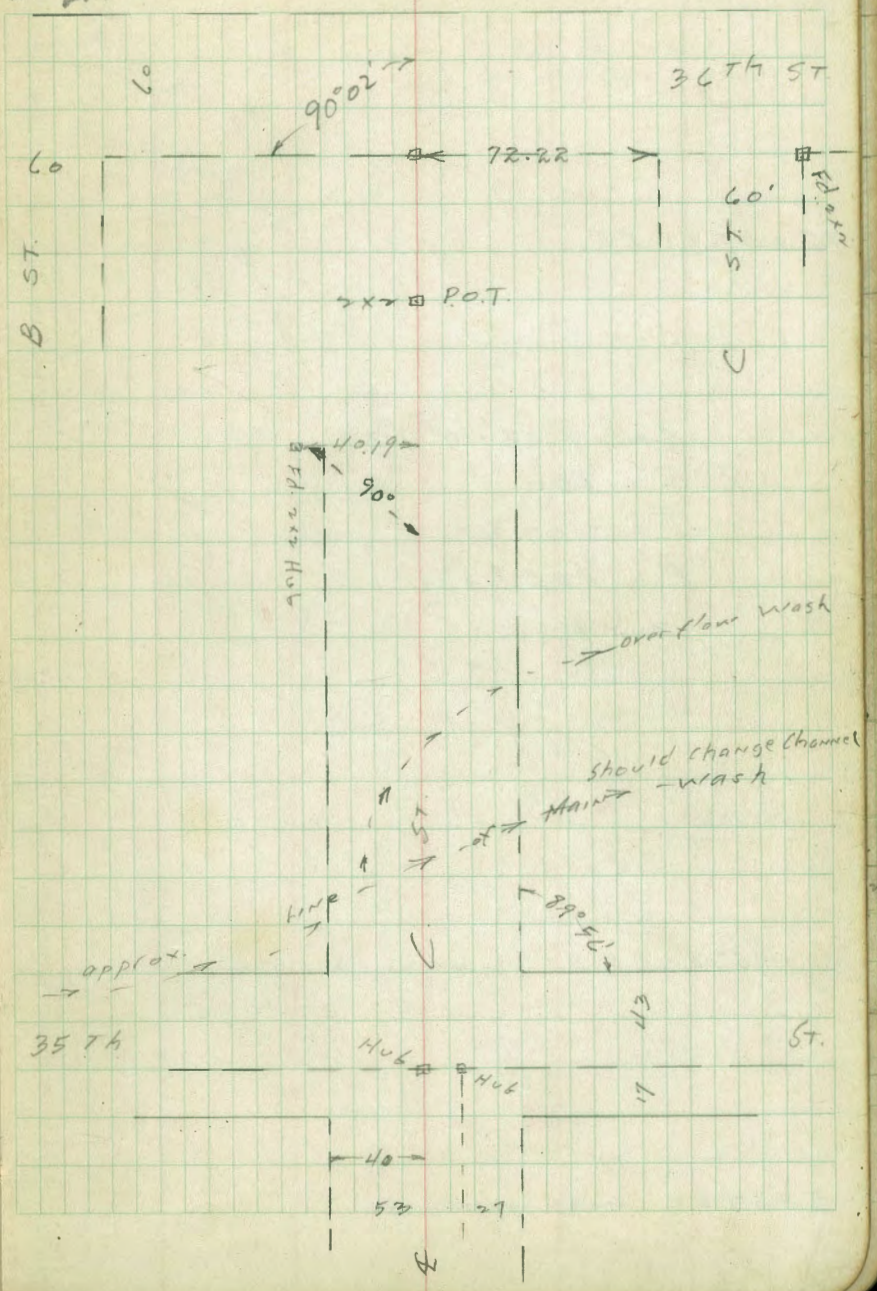
0+60 E/L 35TH

0+17 Set 2x2 on ℄ C ST.

0+00 W.L 35TH

Indexed
LM

2

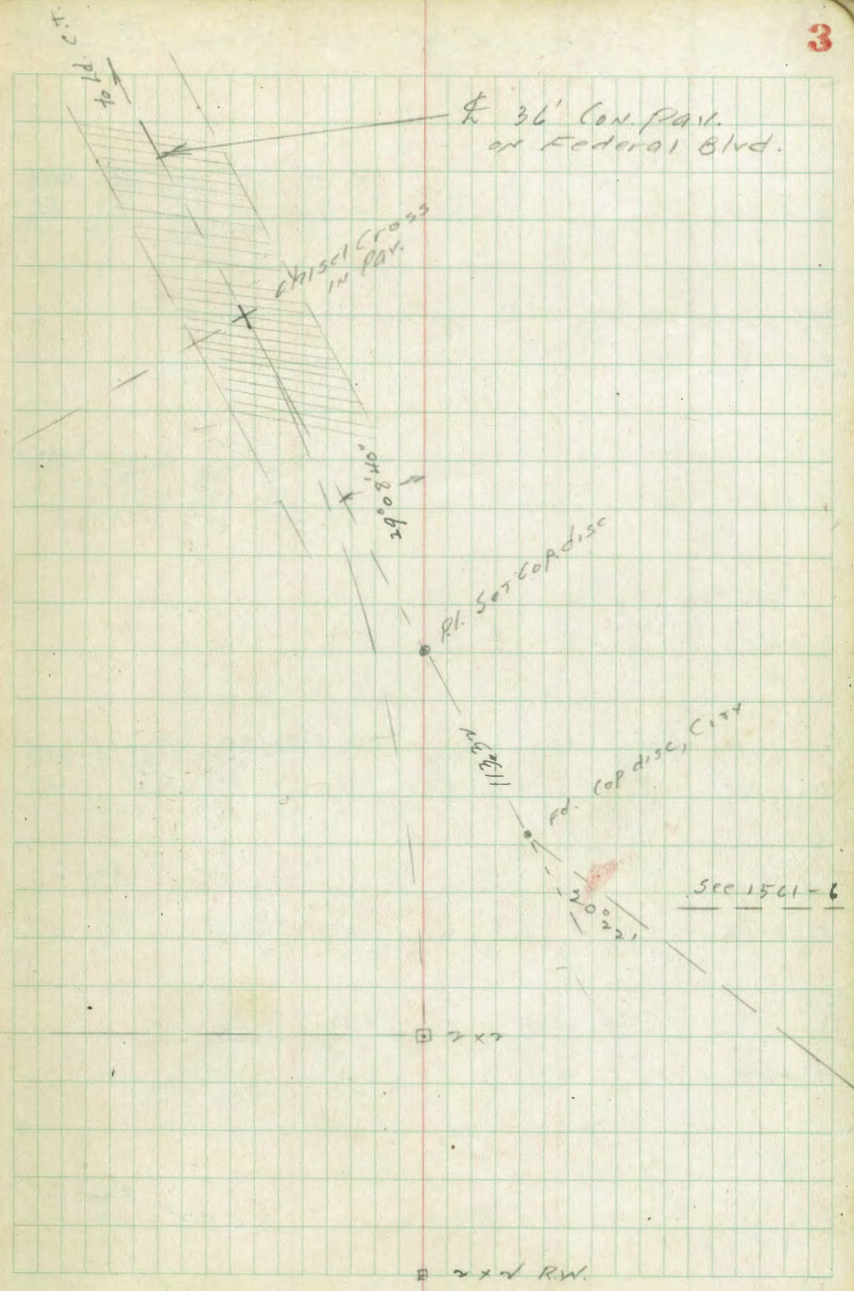


15+03.31 L.C.

Δ = 29°08'40" LT
R = 800
T = 207.97
L = 406.93
2.148C

10+96.38 BC LT Set 2×2 RW. Sw6

5+57.31 on L 36th St.



Xsec of C St. Ext.
35th to Fed. Blvd.

Indexed
LM

LT — ℄ — RT

Station	Left page	Right page (LT)	℄	RT
0+80	59.2 / 9.0 / 175; 57.2 / 11.0 / 146; 60.7 / 7.5 / 137	59.5 / 8.7 / 100; 59.2 / 9.0 / 78; 58.4 / 10.2 / 63; 57.1 / 11.1 / 40; 56.8 / 11.4 / 16; 58.5 / 9.7 / 6	58.1 / 10.1	
0+63			57.3 / 10.9	59.2 / 9.0 / 7; 58.5 / 9.7 / 20; 57.0 / 11.2 / 78; 58.0 / 10.2 / 100; 58.8 / 9.4 / 150
0+50	61.0 / 7.2 / 150; 60.7 / 7.5 / 130	57.8 / 10.4 / 125; 57.7 / 10.5 / 92; 58.2 / 10.0 / 83; 58.8 / 9.4 / 40; 57.9 / 10.3 / 23	60.7 / 7.5	
0+45			60.0 / 8.2	58.6 / 9.6 / 20; 58.4 / 9.8 / 56; 58.2 / 10.0 / 72; 60.3 / 8.0 / 87; 60.1 / 8.1 / 100
0+30 ℄ 35th	61.2 / 7.0 / 167; 58.4 / 10.1 / 152; 58.1 / 10.1 / 140	58.5 / 9.7 / 100; 58.8 / 9.4 / 65; 58.3 / 9.9 / 40; 58.1 / 9.1 / 35; 62.2 / 6.0 / 32	64.5 / 7.7	60.0 / 8.2 / 40; 59.5 / 8.7 / 65
0+17		58.9 / 9.3 / 70; 59.3 / 8.8 / 55; 61.2 / 7.0 / 53; 61.8 / 6.4 / 40	61.2 / 7.0	
0+00 = W.L. 35th St		62.1 / 6.1 / 65; 62.1 / 6.1 / 40	60.9 / 7.3	60.1 / 8.1 / 40; 60.3 / 7.9 / 65

Con. NW Mon. B.M. 11.56 68.18 56.62 Bdwy. 35th

68.18

LT ℄ RT

+10

2+00

+75

+50

+20

1+00

0+87

0+84

C8.18

63.2 / 2.0 / 60	62.7 / 4.0 / 40	62.3 / 5.9 / 4	57.0 / 10.2
63.7 / 5.0 / 75	61.9 / 6.3 / 60	61.0 / 7.2 / 40	60.7 / 7.5 / 15	58.2 / 10.0 / 12	58.2 / 10.0	56.0 / 12.2 / 35	57.1 / 11.1 / 40	57.4 / 10.8 / 68	57.3 / 10.9 / 90
62.2 / 6.0 / 85	61.2 / 7.0 / 75	61.0 / 7.2 / 50	59.1 / 9.1 / 40	57.5 / 10.7 / 15	57.5 / 10.7	56.8 / 11.4 / 8	57.2 / 10.5 / 13	52.6 / 10.6 / 40	57.3 / 10.9 / 70	57.1 / 11.1 / 100
62.6 / 6.2 / 90	61.8 / 6.4 / 75	61.3 / 6.9 / 55	59.4 / 9.2 / 50	58.3 / 9.9 / 40	58.3 / 9.9	58.1 / 10.1 / 40	58.0 / 10.2 / 75	55.5 / 12.7 / 100	56.0 / 12.2 / 125	54.6 / 13.6 / 150
62.1 / 6.1 / 100	61.8 / 6.4 / 75	57.6 / 10.6 / 50	58.2 / 10.0 / 40	58.3 / 10.9	56.8 / 11.3 / 40	56.5 / 11.8 / 100	54.6 / 13.6 / 130	54.5 / 13.7 / 150
58.2 / 10.0 / 150	61.8 / 6.3 / 117	57.1 / 11.1 / 85	56.3 / 11.7 / 40	56.2 / 11.5	56.0 / 12.2 / 40	55.2 / 13.0 / 100	57.4 / 11.1 / 13	56.9 / 11.3 / 150
59.2 / 9.0 / 150	57.8 / 10.3 / 135	57.3 / 10.9 / 100	56.6 / 11.6 / 60	56.9 / 11.3 / 40	56.5 / 11.7				
					56.1 / 12.1	56.9 / 12.2 / 40	55.1 / 10.1 / 64	59.3 / 9.9 / 100	

C8.18

3 + 25				
+ 95				
4 + 75				
T.P.	12.47	91.96	0.53	79.49
+ 55				
4 + 40				
T.P.	12.45	80.02	0.41	67.77
+ 34				
2 + 25				
		68.18		

LT		C		RT
85.2 / 3.8 / 40	82.5 / 4.2 / 20	87.3 / 4.7	86.8 / 5.2 / 20	86.4 / 5.6 / 40
83.5 / 8.2 / 40	84.6 / 7.1 / 20	86.5 / 6.5	85.3 / 6.7 / 20	85.1 / 6.9 / 40
78.6 / 13.4 / 50	79.2 / 12.8 / 40	80.8 / 11.2 / 20	81.4 / 10.6	83.3 / 9.7 / 20	82.2 / 9.8 / 40
91.96				
72.6 / 7.4 / 50	72.3 / 7.8 / 40	72.5 / 7.5 / 20	73.9 / 7.0	74.5 / 5.5 / 40	74.5 / 5.5 / 50
71.8 / 8.5				72.3 / 7.7 / 40 / Top Bank	61.3 / 18.7 / 45
80.02				
70.9 / +2.7				71.8 / +3.6 / 16 / Top Bank	59.2 / 9.0 / 40	56.31 / 11.9 / 45
67.9 / 0.3 / 60	67.9 / 0.3 / 40	69.5 / +1.3 / 1	69.9 / +1.7 / 5	61.5 / 6.7 / 7	58.4 / 9.8 / 20	56.6 / 11.6 / 40	55.6 / 12.6 / 90
68.18				

Note plus rods

T.P.	1.22	67.79	13.03	66.07
5+10				
T.P.	0.44	79.10	12.73	78.66
+85				
+75	POT. on RW Hub			
+70				
T.P.	3.07	91.39	3.44	88.32
+50				
41				
3+57.2				
		91.96		

LT ℄ RT

74.1 / 5.0 / 40	71.3 / 7.8 / 20	69.3 / 9.8	68.3 / 10.8 / 20	68.1 / 11.1 / 40
		79.10		
72.3 / 4.1 / 40	84.2 / 4.7 / 20	82.4 / 9.0	81.2 / 10.2 / 20	80.2 / 10.7 / 40
89.1 / 4.3 / 40	88.0 / 3.4 / 20	87.18 / 4.21		
		87.8 / 3.6	87.4 / 3.9 / 20	87.7 / 4.0 / 40
		91.39		
90.6 / 2.0 / 40	89.1 / 2.9	88.1 / 3.9	88.0 / 4.0 / 20	88.0 / 4.2 / 40
89.3 / 2.7 / 40	88.8 / 3.2 / 20	88.3 / 3.7	87.9 / 4.1 / 20	87.5 / 4.5 / 40
89.4 / 3.06 / 40.19	88.4 / 3.6 / 20	88.0 / 4.0	87.2 / 4.8 / 20	86.9 / 5.1 / 40
		91.96		

7+00

+50

6+17.31 Ex. 36 Th

+87.31 ℄ 36 Th

5+57.31 Wx 36 Th

+25

+30

5+24

67.29

Lt ℄ Rt

54.4	52.7	51.6	62.4	62.8	58.8	56.8	50.3	48.7
8.9	9.6	8.7	4.9	6.5	8.5	10.5	17.0	17.4
60	40	20		20	35	40	55	80

56.8	56.2	53.5	57.2	58.3	57.1	50.3	48.9
10.5	11.1	9.8	10.1	9.0	10.7	17.0	17.4
60	40	20		20	40	60	85

57.6	57.3	55.9	55.5	55.5	56.6	54.3	49.8
9.7	10.0	11.4	11.8	11.5	10.7	14.0	17.5
60	40	20		20	40	60	80

57.2	57.1	57.2	57.3	56.3	52.5	57.4
10.1	10.2	10.1	10.0	11.0	9.5	9.9
60	40	20		20	40	60

58.0	57.1	56.5	56.12	56.1	56.7	59.9	60.8
9.3	10.2	10.8	11.17	10.2	10.6	7.6	6.5
60	40	20	HUB	20	34	40	50

58.2	57.4	56.1	56.6	56.4	56.4	56.7	60.7
8.6	9.9	11.7	10.7	10.9	10.9	8.6	6.6
60	40	20		20	30	40	50

65.8	63.8	60.2	58.0	57.6	56.9	59.3	56.8	57.1
1.5	3.5	7.1	9.3	10.3	10.4	8.0	10.5	10.2
50	40	20		20	40	50	70	85

60.7	58.3	57.6	58.7
6.6	9.0	10.3	9.1
	20	40	60

67.29

LT ℄ RT

53.9 / 13.4 / 65	58.1 / 9.7 / 50	55.1 / 9.7 / 40	56.0 / 11.3 / 20	53.3 / 14.0	53.3 / 14.0 / 20	54.2 / 13.1 / 40	54.7 / 12.6 / 60
53.9 / 13.4 / 65	56.9 / 10.4 / 55	53.8 / 13.5 / 40	54.1 / 13.4 / 20	52.7 / 14.6			
55.1 / 12.7 / 60	55.4 / 11.9 / 40	55.1 / 12.7 / 20	54.8 / 12.5	54.7 / 12.6 / 20	54.6 / 12.7 / 40	54.2 / 13.1 / 60	
54.9 / 12.4 / 60	55.1 / 12.7 / 40	55.1 / 12.7 / 20	54.9 / 12.4	54.9 / 12.4 / 20	54.6 / 13.7 / 40	54.4 / 12.9 / 60	
54.3 / 13.0 / 60	54.3 / 13.0 / 40	54.2 / 13.1 / 20	54.0 / 13.3	54.0 / 13.2 / 20	54.6 / 12.7 / 40	56.4 / 8.9 / 60	
60.3 / 7.0 / 60	61.3 / 6.0 / 40	66.0 / 6.3 / 20	60.8 / 5.5	61.1 / 6.2 / 20	60.9 / 6.4 / 40	61.1 / 6.2 / 60	
58.5 / 8.8 / 60	59.8 / 9.5 / 40	58.7 / 8.6 / 20	58.8 / 8.5	59.8 / 7.5 / 20	62.1 / 5.2 / 40	61.9 / 6.4 / 60	
			58.7 / 8.6	59.8 / 8.5 / 20	52.3 / 10.0 / 40	50.8 / 16.5 / 60	52.1 / 15.2 / 75

67.29 →

+78

+71

8+75

+90

+68

+50

+38

7+30

67.29

T.P.	9.71	67.16	9.86	57.43
10+91.38 BC LT.				
+50				
10+00				
+50				
+13				
9				
8+94				
		67.49		

LT C RT

56.6 / 9.7 / 65	56.9 / 9.4 / 40	56.5 / 9.5 / 20	57.3 / 10.0	57.1 / 10.2 / 20	56.7 / 10.6 / 40	55.2 / 12.1 / 65
56.1 / 11.2 / 65	57.3 / 10.0 / 40	57.3 / 10.0 / 20	57.4 / 9.9	57.3 / 10.0 / 20	57.1 / 10.2 / 40	56.6 / 10.7 / 65
57.2 / 9.6 / 65	57.2 / 9.6 / 40	55.7 / 11.6 / 20	53.1 / 12.2	56.1 / 11.1 / 20	55.9 / 11.4 / 40	56.2 / 11.1 / 65
58.5 / 8.8 / 60	58.6 / 9.3 / 40	58.1 / 9.5 / 20	57.1 / 10.2	57.3 / 10.0 / 20	54.2 / 12.6 / 34	54.7 / 12.2 / 40	54.2 / 12.1 / 60
55.1 / 12.2 / 60	55.2 / 12.1 / 40	55.2 / 12.1 / 20	58.2 / 12.1	54.3 / 13.0 / 20	54.9 / 12.4 / 40	54.8 / 12.5 / 60
			56.6 / 10.7	58.3 / 9.0 / 20	57.5 / 8.8 / 40	54.5 / 12.5 / 60
54.9 / 12.6 / 60	54.6 / 13.3 / 50	58.1 / 9.2 / 40	58.6 / 9.2 / 20	58.1 / 9.4	58.3 / 9.1 / 20	56.2 / 10.6 / 40	55.1 / 12.2 / 60
				67.49		

LT ℄ RT

Station						Cross-section readings (elev. / rod / dist.)
+50					59.5 / 8.1 / 65 ; 59.9 / 9.7 / 53	60.2 / 7.4 / 40 ; 59.9 / 7.7 / 30 ; 64.3 / 3.3 / 13 ; 63.12 / 4.50 / 3.5 NL Pav ; 63.18 / 4.44 ; 63.35 / 4.27 / 14.6 ℄ Pav ; 62.93 / 4.69 / 33.2 SL Pav
13						57.1 / 10.5 / 65 ; 58.1 / 9.5 / 60 ; 57.4 / 10.2 / 40 ; 59.6 / 8.6 / 15 ; 63.8 / 3.8 ; 62.83 / 4.79 / 7.7 NL Pav. ; 62.89 / 4.73 / 26.6 ℄ Pav.
+75						57.1 / 10.5 / 65 ; 58.0 / 9.6 / 56 ; 57.6 / 10.0 / 40 ; 57.1 / 10.5 / 30 ; 59.1 / 8.5 / 10 ; 62.6 / 5.0 ; 63.6 / 4.0 / 10 ; 62.66 / 4.96 / 16.6 NL Pav ; 62.67 / 4.95 / 37.4 ℄ Pav.
12 + 50					10.2 / 65	56.3 / 11.3 / 40 ; 58.3 / 9.3 / 32 ; 56.5 / 11.1 / 12 ; 58.0 / 9.6 / 2 ; 60.4 / 7.2 / 1 ; 60.4 / 7.2 ; 63.6 / 4.0 / 20 ; 62.51 / 5.11 / 24 NL Pav ; 62.50 / 5.12 / 43.5 ℄ Pav
TP	4.73	67.62	4.25	62.89	P.I. Cap. disc	67.62
12 + 30						58.1 / 9.0 / 65 ; 56.2 / 10.4 / 40 ; 56.4 / 10.7 / 20 ; 56.9 / 10.2 ; 60.1 / 7.0 / 3 ; 62.1 / 5.0 / 20 ; 63.3 / 3.8 / 30 ; 62.4 / 4.70 / 40 Pav ; N'ly wash ; S'ly wash
+90						59.4 / 9.7 / 65 ; 58.2 / 8.5 / 40 ; 57.9 / 9.2 / 20 ; 56.3 / 10.8 ; 56.3 / 10.8 / 20 ℄ wash ; 56.1 / 11.0 / 40 ; 62.8 / 4.3 / 50 Top
11 + 50		67.14				59.5 / 9.6 / 65 ; 52.5 / 9.6 / 40 ; 52.1 / 10.0 / 20 ; 56.3 / 10.8 ; 56.4 / 10.7 / 20 ; 56.7 / 10.4 / 40 ; 55.6 / 11.6 / 65 ; 55.9 / 11.1 / 70 ; 62.3 / 4.8 / 73

67.14

N'ly of Cholla wash

Top bank ary South

Cop. disc 13' Bdwy. check ℄ Fed. Blvd.			7.96	59.66	59.63 / 0.03
16 + 03.31					
15 + 03.31 E.C.					
+ 50					8.0 / 65
14					8.1 / 65
	67.62				

Lt ℄ Rt

~~Notes Reproduced~~

			65.61 / 2.01 / 18 Pav	65.93 / 1.69 / Pav	65.41 / 2.01 / 18 Pav.			
60.2 / 7.4 / 65	59.4 / 8.2 / 40	65.4 / 2.2 / 24	64.49 / 3.13 / 18 Pav	64.79 / 2.83 / Pav	64.41 / 3.21 / 18 Pav	65.2 / 2.4 / 40		
58.6 / 9.0 / 45	60.1 / 7.5 / 40	64.9 / 2.7 / 25	63.99 / 3.69 / 16.5 NL Pav	64.32 / 3.30	64.35 / 3.27 / 7.6 ℄ Pav	64.14 / 3.48 / 19.5 SL Pav	63.9 / 3.7 / 23	65.3 / 2.3 / 50
57.6 / 10.0 / 50	59.4 / 8.2 / 40	64.7 / 2.9 / 24	63.53 / 4.09 / 11.8 NL Pav	63.79 / 3.83	63.85 / 3.77 / 6.5 ℄ Pav	63.48 / 4.14 / 24.7 SL Pav	65.4 / 2.2 / 40	

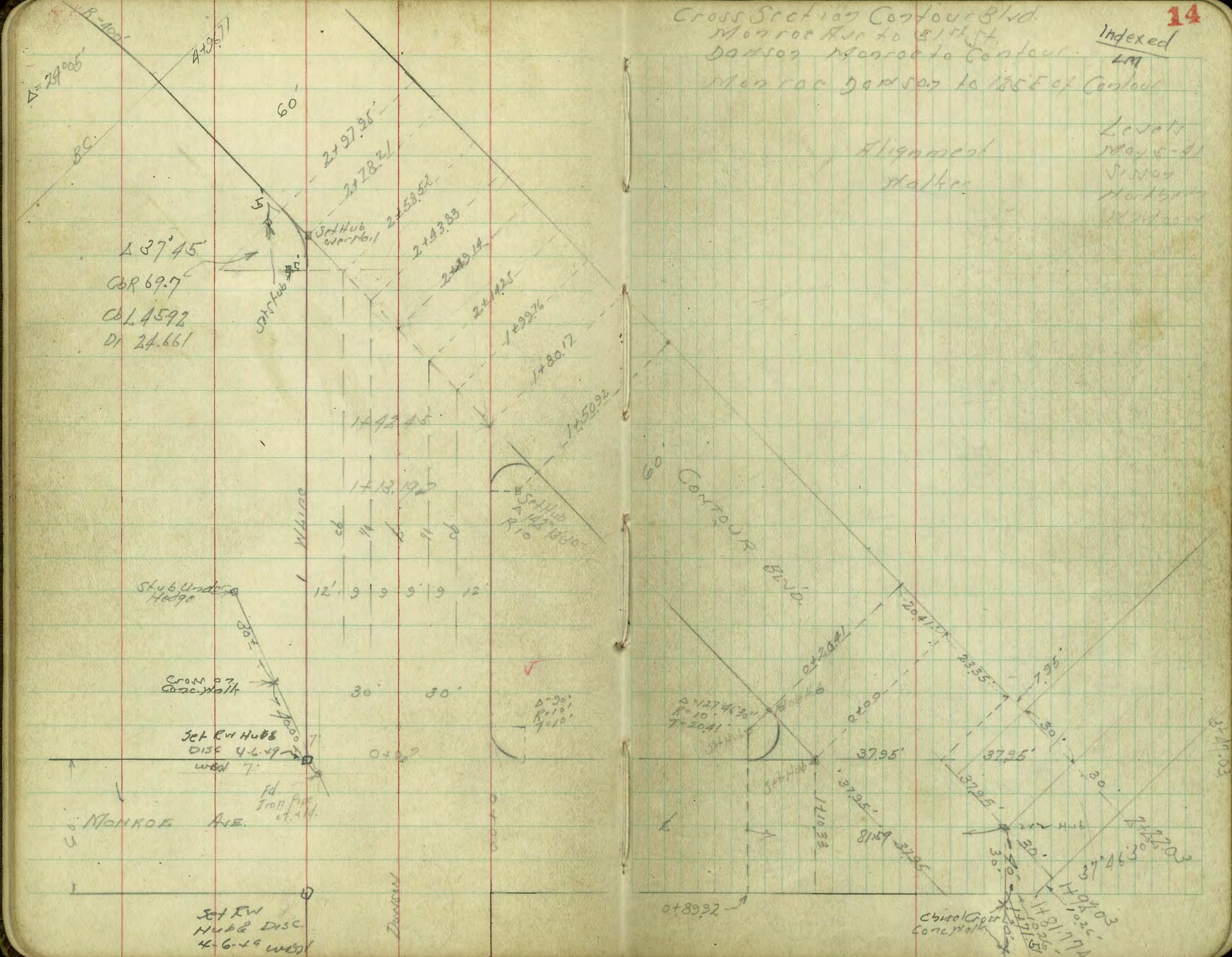
67.62

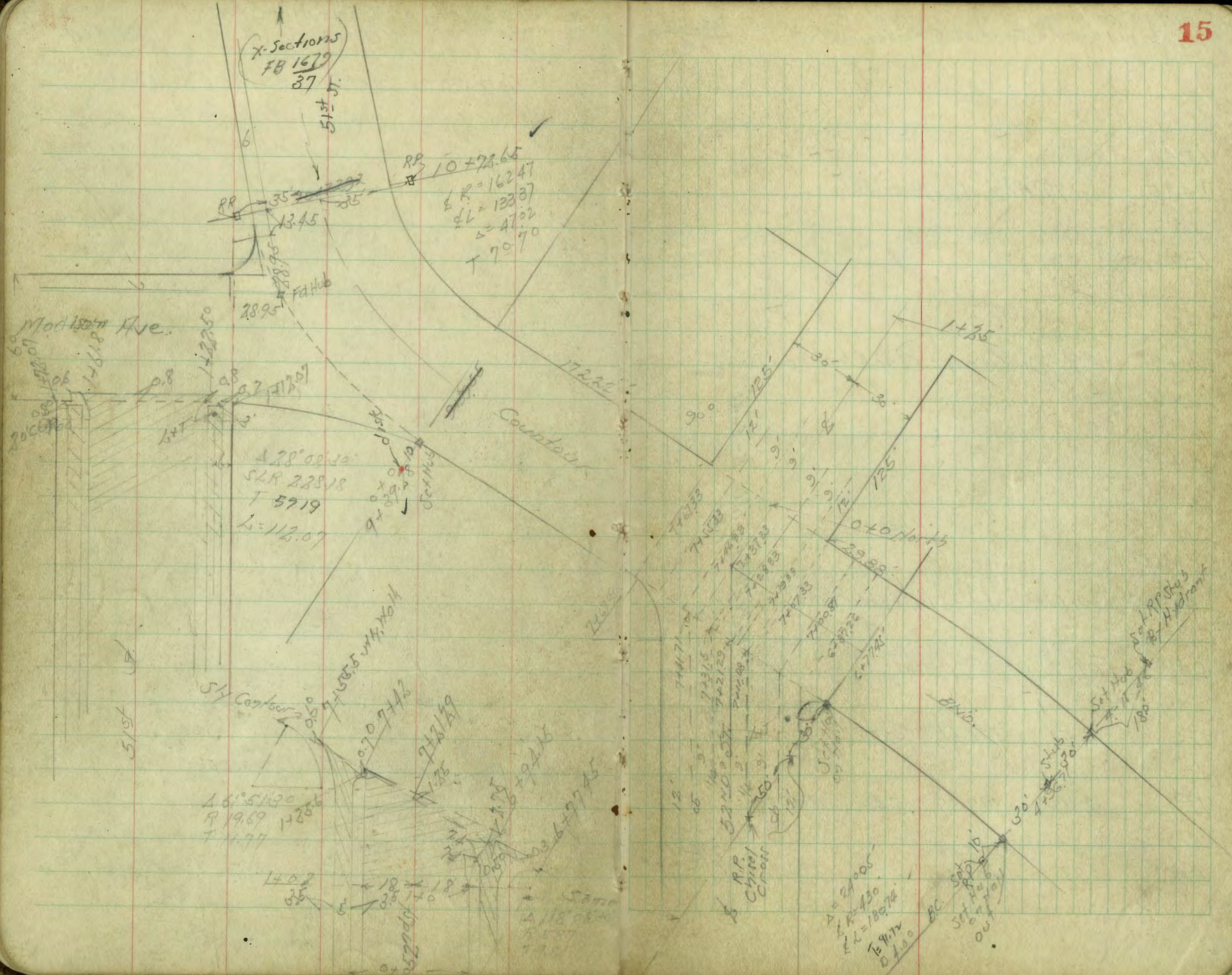
Indexed
LM

Cross Section Contour Blvd.
Monroe Ave to 81st St.
Dawson Monroe to Contour
Monroe Dawson to 135 E of Contour

Alignment
Walker

Levels
May 5-41




X-Sections
FB 1679
37
51st St.
RP
10+72.65
Madison Ave.
Fd Hub
Set Hub
Countour
90°
1+25
0+0 North
30'
12'
125'
Set Hub
Set RP Sta 3
By Hydrant
R.P.
Christ
Church

Cross Section Monroe Ave
Dawson to East of Contour Blvd

Indexed
LM

1+48					
1+25	17.9 Rt ℄ = Sly Power Pole				
1+0					
0+76	= ℄ Do. Garage Conc Floor on South				
0+50					
0+41					
0+25	19.6 Rt of ℄ = Sly Power Pole				
0+0	= East Line of Dawson				
TP	4.53	396.61	5.29	392.08	Hair Pole Monroe + Contour
TP	2.16	397.37	5.40	395.21	
BM	6.73	400.61		393.88	SW BP El Cajon + Sandy

Red'y Plot on 1865 5-8-41 EBH

Lt. = N ℄ Rt. = S

May 5-41
Sisson
Northrop
Moore

392.1 / 4.5 / 30	392.0 / 4.6 / 18		392.0 / 4.6	391.9 / 4.7 / 18	Sly Pole 19.4	391.3 / 5.3 / 30		
391.3 / 5.3 / 30	390.9 / 5.7 / 18	390.7 / 5.9 / 15	390.9 / 5.7	390.3 / 6.3 / 15	390.7 / 5.9 / 18	390.5 / 6.1 / 30		
				390.91 / 5.70 / 44.0 = ℄ Do Garage Conc Floor				
390.0 / 6.6 / 30	389.7 / 6.9 / 18	389.3 / 7.3 / 15	389.8 / 6.8	389.1 / 7.5 / 15	389.7 / 6.9 / 18	389.8 / 6.8 / 30		
				390.18 / 6.43 / 31.1 = Lt Conc Walk				
389.2 / 7.4 / 30	389.0 / 7.6 / 18	388.8 / 7.8 / 15	388.9 / 7.7	388.4 / 8.2 / 15	388.9 / 7.7 / 18	389.4 / 7.2 / 30		
			396.61					

Lt		Δ		Rt
386.1	386.8	387.8	389.3	389.9
10.5	9.8	8.8	7.3	6.7
30	18		18	30
387.9	388.1	388.3	388.6	389.0
8.7	8.5	8.3	8.0	7.6
30	18		18	30
388.62	388.53 ↓			
7.99	8.08			
37.8 - Δ Garage Conc Floor	30: S/L Conc. Apron			
390.8	390.3	390.0	390.2	390.1	390.2
5.8	6.3	6.6	6.4	6.5	6.4
30	18	18		18	30
391.4	391.1	391.0	391.8	390.7
5.2	5.5	5.6	5.8	5.9
30	18		18	30
392.0	391.9	392.7	391.4	391.2
4.6	4.7	4.9	5.2	5.4
38	20	396.61	20	38

3+47.03 = E.L. Alhambra Park

3+70

4+93

5+50

6+22.03 = E.L. Contour

7+81.77 = Δ on S.L. Taken on Split

396.61

Cross Section Dawson
Monroe to Contour

Lt = N Z Rt = E

1+42.45

389.3 389.2 388.8 389.3 389.2 389.9 390.3
5.8 5.9 6.3 6.8 5.9 5.2 4.8
30 20 18 18 20 30

1+38

389.50
5.64
28.2 = Z1 Conc Wall

1+05

389.18
5.96
28.2 - 7.7 Conc Bi-Wall

1+0

389.1 388.5 389.0 388.8 388.4 389.9
6.0 6.6 6.1 6.2 5.7 5.2
30 18 18 22 30

0+81

388.98
6.16
30 - 2.36 Conc Wall

0+50

388.6 388.6 388.2 388.7 388.5 389.1 389.6
6.5 6.5 6.9 6.4 4.6 6.0 5.5
30 20 18 18 20 30

0+0 = NL Monroe

388.2 388.4 387.9 388.5 388.6 389.0 389.1
6.9 6.7 7.2 6.6 6.5 FH AB 6.1 6.0
30 18 15 21.6 22 30

BM 3.06 395.14 392.08 Main St Pole Monroe & Contour Page 16

395.14

Lt. ℄ Rt.

2+0 = ℄c. Lt.

1+98 22.5 Lt of ℄ = W'ly Power Pole

1+70

395.14 Ford

389.0	389.1	
6.1	6.0	
30	18	
389.2	388.7	389.1
5.9	6.4	6.0
30	15	

Cross Section Contour Blvd
Monroe Ave to Madison Ave
Alignment Page 14

Indexed
LM

Red. + Plot
5-8-41
BH.
on Profile 1866

0+69	20.2 Rt of ℄ = Ely Tel Pole ✓			
0+63	22.4 Lt of ℄ = Wly Pow Pole ✓			
0+53.5				
0+50				
0+41				
0+20				
0+07.5 = ℄ 2 Ribbon Drive 7 Wide				
0+0 = N L Monroe to S Ny Contour				
0-15				

395.14 St Ford

Lt. W		℄	Rt. E	
			392.37 / 2.77 / 30.4 ℄ 3 Conc Walk ✓	
391.7 / 3.4 / 30	391.3 / 3.8 / 18	392.1 / 3.0	392.0 / 3.1 / 18	392.1 / 3.0 / 30
			392.43 / 2.71 / 30.3 = ℄ 2 Rib Conc Dr 7 Wide ✓	
			392.16 / 2.98 / 30.4 = ℄ 3 Conc Walk ✓	
			392.02 / 3.12 / 30.3 = ℄ 2 Rib Dr ✓	
391.4 / 3.7 / 30	391.5 / 3.6 / 18	392.4 / 2.7 = WH	392.0 / 3.1 / 18	391.9 / 3.2 / 30
			391.87 / 3.27 / 30.2 = ℄ 3 Conc Walk ✓	

395.14

2+29.14

2+18 20.2 Rt of ℄ = Ely Tel Pole

1+99.76

1+83

1+50.92 = BC on Lt

1+08

1+0

0+89

0+74

395/4

389.0 6.1 30 — 389.1 6.0 18 — 389.2 5.9 — 388.3 6.8 12 — 388.6 6.5 18 — 389.1 6.0 30

389.2 5.9 30 — 390.0 5.1 28 — 390.1 5.0 18 — 389.6 5.5 14 — 389.6 5.5 — 389.1 6.0 18 — 390.1 5.0 30

390.53 4.61 30 = ℄ 2 Conc Walk ✓

390.6 4.5 30 — 390.6 4.5 18 — 390.3 4.8 14 — 390.6 4.5 — 390.3 4.8 18 — 390.7 4.4 30

391.95 3.19 30.6 = ℄ 3 Conc Walk ✓

391.0 4.1 30 — 391.0 4.1 18 — 391.4 3.7 — 391.3 3.8 18 — 391.9 3.2 30

392.48 2.66 30.7 = ℄ Conc Walk ✓

392.64 2.50 30.7 = ℄ 7 Conc Drive ✓

395/4

3+90	21.6	Lt of Δ = W/y Power Pole ✓
3+67	20'	Rt of Δ = E/y Tel Pole ✓
3+58		
3+50		
3+16		
3+05	= Δ 9' Conc Drive	
2+94	21' Rt of Δ = Δ 15" Palm ✓	
2+83		
2+78.21		
2+75	21' Rt of Δ - 8" Palm ✓	
2+58.52		
	39514	

Lt. Δ Rt.

388.05 ✓
7.09
30 = Δ 5' Conc Wall

388.0	387.6	387.1	387.5	386.1	386.5	386.3
7.1	7.5	8.0	7.6	9.0	8.6	8.8
30'	18	14		15	18	30

387.98	387.7	387.7	386.8	387.1	387.1
7.6	7.4	7.4	8.3	8.0	8.0
30. = Δ 9' Conc Drive	18		13	18	30

388.32 ✓
6.82
31.5 = Δ 9' Conc Drive

388.48 ✓
6.66
31.0 = Δ 4' Conc Wall

388.5	388.0	388.4	387.4	387.7	387.8
6.6	7.1	6.7	7.7	7.4	7.3
30'	18		12	18	30

388.4	388.4	388.7	387.6	388.1	388.6
6.7	6.7	6.4	7.3	7.0	6.5
30	18		12	18	30

39514

5+25	25	Lt of ℄ = N'ly Tel Pole			✓ out
5+21					
5+01					
4+96.71	= B.C. Lt ✓				
4+50					
4+29					
4+21					
TP	4.18	390.94	8.38	386.76	
4+0					
		395.14			

Lt		℄		Rt
				386.60 ✓ 4.34 / 30.3 = ℄ 3' Conc Walk
				386.63 ✓ 4.31 / 30 = ℄ 8' Conc. Drive
387.4 / 3.5 / 30	386.5 / 4.4 / 18	386.6 / 4.3	385.6 / 5.3 / 18	386.6 / 4.3 / 30
387.2 / 3.7 / 30	386.6 / 4.3 / 18	386.2 / 4.7	385.5 / 5.4 / 18	385.7 / 5.2 / 30
				385.93 ✓ 5.01 / 30' = ℄ 8' Conc Drive
387.30 ✓ 3.64 / 30 = ℄ 4' Conc Walk				
		390.94		
387.42 / 7.72 / 30 = ℄ 8' Conc Drive ✓	387.1 / 8.0 / 18	386.8 / 8.3	385.4 / 9.7 / 18	385.4 / 9.7 / 30
		395.14		

Station	Notes	Lt.				℄	Rt.			
6+75	22.2 Lt of ℄ : Wly Power Pole ✓									
6+50		386.6 / 4.3 / 30'	385.3 / 5.6 / 26	384.7 / 6.2 / 18	383.9 / 7.0 / 15	384.4 / 6.5	383.2 / 7.7 / 15	383.8 / 7.1 / 18	383.4 / 7.5 / 26	384.4 / 6.5 / 30'
6+35	21.0' Rt of ℄ : Ely Tel Pole ✓									
6+16							385.80 / 5.14 / 34.5 = ℄ 3' Conc Walk ✓			
6+0		387.3 / 3.6 / 30	386.4 / 4.5 / 26	385.5 / 5.4 / 18		385.5 / 5.4	384.9 / 6.0 / 18	385.1 / 5.8 / 25	386.0 / 4.9 / 30	
5+98							386.20 / 4.74 / 34.3 = ℄ 2' Ribbon Conc Dr ✓			
5+93	20.5 Lt of ℄ : Wly Power Pole									
5+79							386.64 / 4.30 / 30 : ℄ 7' Conc Drive ✓			
5+50		387.7 / 3.2 / 30'	386.9 / 4.0 / 27	386.0 / 4.9 / 18		386.4 / 4.5	385.7 / 5.2 / 18	386.2 / 4.7 / 26	387.0 / 3.9	
5+35		387.24 / 3.70 / 29.3 = ℄ 3.5' Conc Walk ✓					Ely Tel Pole 20.6 ✓			

390.94 390.94

7+55.5					
7+42 = N Cb From South					
7+37.33 = ℄ 52nd From N					
7+21.29 = ℄ 52nd St From South					
7+07.33 = E.L. 52nd St From North					
16.74					
6+94.15					
TP	3.70	389.44	5.20	385.74	on E.C. Hub on South 6+77.45
6+77.45 E.C.					
		390.94			

Lt. ℄ Rt

383.49 ✓
5.95
39.4' Walk

(383.27 / 6.17 Gut; 383.62 / 5.82 = Cb; S End Ret)
383.46 ✓ / 5.98 / 30' = Cb
383.04 / 6.40 / 30' = Gut

✓
383.29	383.1	382.2	381.7	381.5	379.3	375.7
6.15	6.3	7.2	7.7	7.9	10.1	13.7
30' on Pav.	18		18	30	80	130

✓
383.96	383.91	383.4	382.5	381.1	381.8
5.48	5.53	6.0	6.9	7.3	7.6
30' on Pav.	28.7' Pav.	18		18	30

✓
384.23	384.19	383.6	382.9	382.3	382.1	379.9	379.6
5.21	5.25	5.8	6.5	7.1	7.3	9.5	9.8
30' on Pav.	28' = N Pav.	18		18	30'	80	130

384.62 / 4.82 = Cb; 384.27 / 5.17 Gut; S End Ret
384.60 ✓ / 4.84 / 27.5 = Cb
384.21 / 5.23 / 27.5 ✓

389.44

✓
385.74	384.8	383.7	383.8	382.7	383.1
5.20	6.1	7.2	7.1	8.2	7.8
30	26	18		18	30

390.94

Lt ℄ Rt

9+50

9+39.28 = B.C. Rt.

9+0

8+50

8+0 19' Lt of ℄ = Sly Anchor Pole

7+67.33 = N 45° W St. From North
389.44

384.6	384.2	381.2	384.2	383.4	384.2	384.2	384.51
4.8	5.2	6.1	5.2	6.0	5.2	5.2	4.93
30	40	18		10	18	30	60

384.5	383.8	383.1	384.0	383.2	383.5	383.3
4.9	5.6	6.3	5.4	6.3	5.9	6.1
30	18	15		10	18	30

383.0	382.5	381.1	382.9	382.4	382.4	382.9
6.4	6.9	7.3	6.5	7.0	7.0	6.5
30	18	14		18	30	40

381.9	381.3	381.3	381.4	381.2	381.8	381.3
7.5	8.1	8.1	8.0	8.2	7.6	8.1
10	30	18		18	30	40

381.5	381.3	381.4	381.5	381.3	381.6	381.3
7.9	8.1	8.0	7.9	8.1	7.8	8.1
40	30	18		18	30	40

382.5	382.1	381.7	381.3	381.6	378.7	376.9	368.6	
6.9	7.3	7.7	8.1	7.8	10.7	12.5	20.8	
60	18	389.44	18	30	80	100	130	

10+72.65

10+50

10+31

10+0

389.44

Lt. ℄ Rt.

387.6	387.0	386.9	385.7	386.3	
1.8	2.4	2.5	3.7	3.1	
30	18		18	30	
387.1	386.9	386.6	386.0	386.0	
2.3	2.5	2.8	3.4	3.4	
30	18		18	30	
			386.03		
			3.41		
			33.6 = B.B. Conc Wall		
386.1	386.0	385.1	384.8	384.7	385.0
3.3	3.4	4.3	4.6	4.7	4.4
18	18		8	18	30

389.44

Cross Section Madison Ave
142.07' E of E.L. 51st St. to W.L. 51st St.

1+42.07

1+22.8 FCb 51st St.

1+12.07 = E.L. 51st

0+70

Red'r - Plat. CBH 5-8-41 on Profile 1864

0+35

0+0 = 9+39.28 Contour Blvd.

389.44

Lt. S ℄ R = Rt.

386.90	387.0	387.2	387.2	387.6
2.54	2.4	2.2	2.2	1.8
39.2 = Hy Pav	18		18	38

386.64	386.24	386.62	386.11
2.80	3.20	2.82	3.33
37.2 = Cb	37.2 = Gut	39.2 = Cb	39.2 = Gut

386.9	386.8	386.9	387.1	387.8
2.5	2.6	2.5	2.3	1.6
30	18		18	30

387.4	386.5	386.2	385.4	386.3
2.0	2.9	3.2	4.0	3.1
30	26	18	14	

386.1	384.9
3.3	4.5
30	30

BM			5.90	380.38	ST BP Madison 49121 380.37
TP	0.23	386.28	5.57	386.05	
TP	3.75	391.62	1.57	387.87	
1+72.07 : HL. 5 1st St.					
1+61.8 : H Cb Ret					

389.44

Lt. ℄ Rt.

387.3	387.3	387.6	387.1	387.8
2.1	2.1	1.8	2.3	1.6
30	18		18	30

387.19	386.73	387.20	386.76
2.25	2.71	2.24	2.68
274 : cb	274	294 : Cb	294 : Gut

389.44

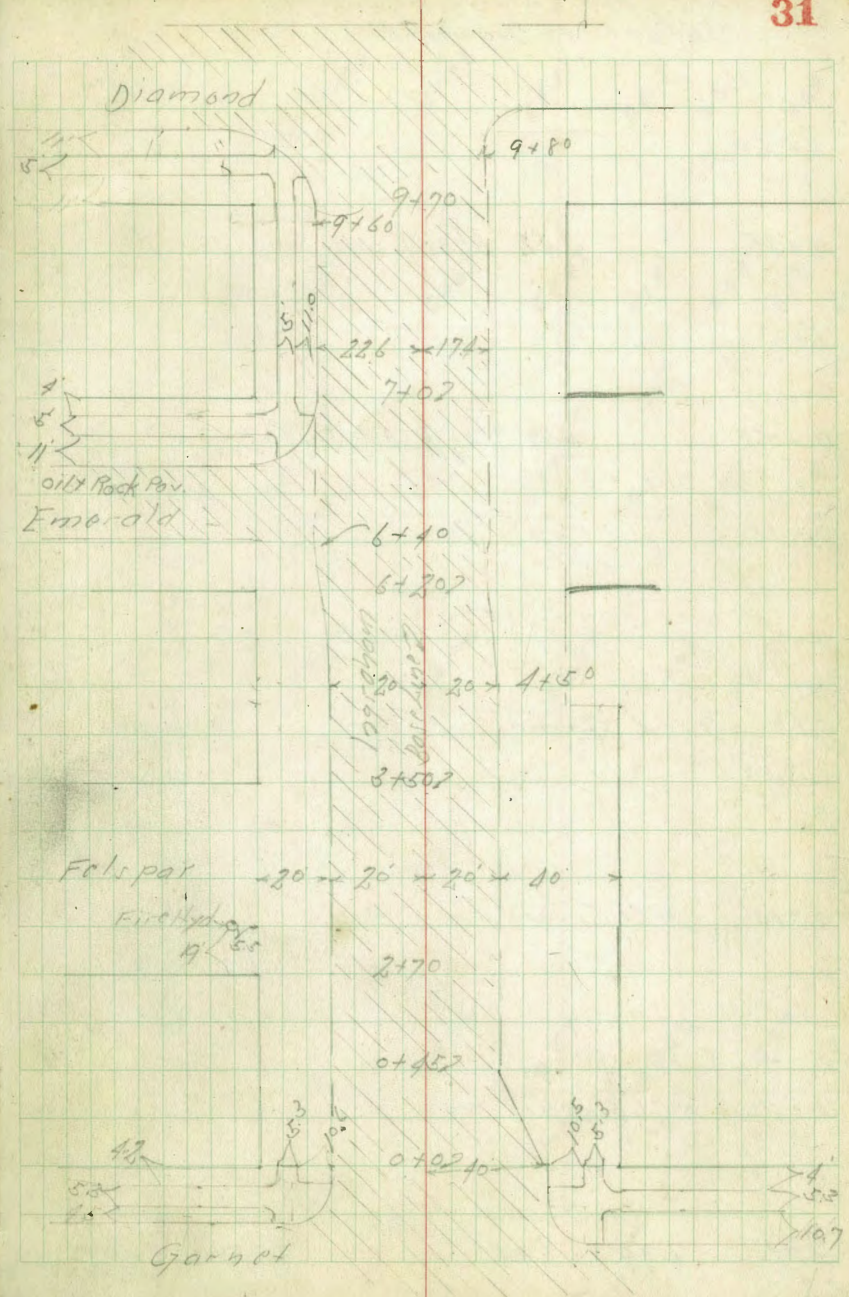
Cross Section 52nd St. From Contour Blvd.
100' S of F.C. on East
See Sketch Page 15

					W	W	Z	E	E
1+17.8 on W					383.84 / 7.38 / W Cb	383.42 / 7.80 / W Gut			
1+07.7 on E								384.24 / 6.98 / E Gut	384.64 / 6.58 / E Cb
1+0 = CbBC on E					384.23 / 6.99 / 18	383.78 / 7.44 / 18		384.25 / 6.97 / 18	384.61 / 6.61 / 18
0+75					384.72 / 6.50 / 18	384.37 / 6.85 / 18		384.68 / 6.54 / 18	385.07 / 6.15 / 18
0+50					385.27 / 5.95 / 18	384.87 / 6.35 / 18		385.12 / 6.10 / 18	385.44 / 5.78 / 18
0+25					385.83 / 5.39 / 18	385.43 / 5.79 / 18		385.56 / 5.66 / -18	385.93 / 5.29 / 18
0+0 = 100 S of F.C. on E					386.23 / 4.99 / 18 Cb	385.86 / 5.36 / 18 = Gut		385.93 / 5.29 / 18 = Gut	386.37 / 4.85 / 18 = Cb
BM	5.48	391.22	385.74	on E C Hub 6+77.45 on Contour Page 25			391.22		

Cross Section Ingraham St.
Garnet to Diamond

Indexed
LM

May 29-41
Sisson
Northern
Moore
Albin



Cross Section Ingraham St
Garnet to Diamond

Lt. of ℄ | ℄ | Rt. of ℄

1+50

1+25 — 22.2 Lt of ℄ = Wly Power Pole

1+0

0+52 — 41.7 Rt of ℄ = Ely Tel Pole

0+45

0+0 = NL Garnet

0-14 = NCb Garnet From West

0-20 = NCb Garnet From East

BM 6.79 6.93 6.254 S.E. BP Garnet & Ingraham

Reduced & Plotted Profile 12.02
6-2-41 CRH.

Lt. of ℄			℄				Rt. of ℄
6.56	6.52	6.459	6.522	6.517	6.43	6.51	6.56
3.7 / 10	4.1 / 25	4.74 / 20	4.11	4.16 / 20	5.0 / 30	4.42 / 40	3.8 / 60
6.49	6.45	6.397	6.447	6.447	6.38	6.43	6.43	6.53
4.1 / 10	4.8 / 25	5.36 / 20	4.86	4.86 / 20	5.5 / 28	5.0 / 40	5.0 / 52	4.0 / 60
6.38	6.38	6.326	6.378	6.372	6.33	6.37	6.44
5.5 / 10	5.5 / 25	6.07 / 20-Edge Pvt	5.55	5.57 / 20-Edge Pvt	6.0 / 32	5.7 / 40	4.9 / 66
6.33	6.330	6.263	6.300	6.299	6.268	6.315	6.32
6.0 / 10	6.03 / 20-Cb	6.78 / 20-Spot	6.33	6.31 / 25	6.65 / 40-Spot	6.18 / 40-Cb	6.1 / 60
6.312	6.276	6.307	6.272	6.257	6.271
6.21 / 45-Cb	6.57 / 40	6.26 / 30-Cb	6.61 / 30-Spot	6.76 / 20	6.62
6.256	6.257	6.256	6.297
6.97	6.76 / 25	6.77 / 20-Spot	6.36 / 30-Cb
6.933			

3+10 = Δ Felspar

2+90 = S.Cb

2+70 = SL Felspar

2+69 22.8 Lt o/β = Wly Pow Pole ✓

2+50

2+03 41.3 Rt o/β = Fly Tol Pole ✓

2+0

69.83

Lt β Rt

67.4	65.75	67.89	67.37	67.3	67.3	67.3	68.6
1.9 / 40	2.58 / 20	1.94	1.96 / 20	2.0 / 30	2.0 / 40	2.0 / 56	0.7 / 60

67.3	67.1	66.52	67.15
2.0 / 40	2.2 / 25	2.81 / 20	2.18

67.3	66.7	66.8	66.28	66.93	66.84	66.3	66.9	66.9	68.0
2.0 / 40	2.6 / 35	2.5 / 25	3.05 / 20	2.40	2.49 / 20	3.0 / 28	2.4 / 40	2.3 / 53	1.3 / 60

67.1	66.2	66.4	65.99	66.60	66.50	65.9	66.6	66.6	67.8
2.2 / 40	3.1 / 35	2.9 / 25	3.34 / 20	2.73	2.83 / 20	3.4 / 28	2.7 / 40	2.7 / 55	1.5 / 60

66.2	65.8	65.26	65.85	65.82	65.9	65.8	66.5
3.1 / 40	3.5 / 25	4.07 / 20: Edge Pos	3.48	3.51 / 20: Edge Pos	4.3 / 28	3.5 / 40	2.8 / 60

69.33

5+50				
5+0				
4+72	28.2 Lt of ℄ : Wly Pow Pole ✓		41.5 Rt of ℄ : Ely Tel Pole ✓	
4+50				
4+0				
TP	7.73	76.61	0.45	68.88
3+50 = N.L. Felspar		41.5 Rt of ℄ : Ely Tel Pole ✓		
3+30 = N Cb				
		69.33		

Lt ℄ Rt

73.0	72.7	72.33	72.78	72.62	72.7	73.3	73.8		
3.6	3.9	4.38	3.83	3.99	3.9	3.3	2.8		
40	25	22.6		17.4	25	40	60		

71.8	71.4	70.98	71.47	71.43	71.5	71.8	72.8		
4.8	5.2	5.63	5.14	5.18	5.1	4.8	3.8		
40	25	21.3 = Edge Paving		18.4 = Edge Pav	30	40	60		

71.4	69.8	70.0	69.60	70.18	70.39	70.1	70.6	70.5	71.6
5.2	6.8	6.6	7.01	6.43	6.22	6.5	6.0	6.1	5.0
40	35	25	20		20	30	40	55	60

69.8	69.0	68.9	68.42	69.04	69.09	68.8	69.0	69.6	
6.8	7.6	7.7	8.19	7.57	7.52	7.8	7.6	7.0	
40	35	25	20		20	30	40	60	
				76.61					

68.9	67.9	68.0	67.36	67.92	67.90	67.8	68.1	68.2	68.9
0.4	1.4	1.3	1.97	1.41	1.43	1.5	1.2	1.1	0.4
40	35	25	20		20 = Edge Pav	30	40	55	60

68.8	67.8	67.7	67.06	67.63					
0.5	1.5	1.6	2.27	1.70					
40	35	25	20 = Edge Pav						
				69.33					

TP	10.72	85.70	1.63	74.98

7+0 = Mt. Emerald

6+80 = N Cb

6+60 = Z Emerald

6+40 = S Cb

6+20 = S.L. Emerald

6+18 28.7 Lt = Mty Pow Pole ✓

6+16 Rt of Δ 27.4 = Z Fire Hyd ✓ 41.5 Rt Δ = Mty Tel Pole ✓

6+0

76.61

Lt. Δ Rt.

76.88	75.17	75.57	75.58	76.69	77.4	
0.73	1.44	1.04	1.03	0.2	+0.8	
22.6-Cb	22.6-Gut		17.4	30	40	
76.0	75.19	74.80	75.28	75.26	75.4	75.6
0.61	1.45	1.81	1.03	1.35	1.2	1.0
42.5-Cb Ec.	42.5-Gut	22.6		17.4	30	40
74.8	74.7	74.48	75.03	74.96	75.1	75.3
1.8	1.9	2.13	1.58	1.65	1.5	1.3
40	30	22.6		17.4	30	40
74.4	74.4	74.17	74.77	74.58	74.8	75.3
2.2	2.2	2.44	1.87	2.03	1.8	1.3
40	30	22.6		17.4	25	40
74.0	74.2	73.81	74.52	74.27	74.2	75.2	75.6
2.6	2.7	2.80	2.09	2.34	2.4	1.4	1.0
40	25	22.6		17.4	25	40	60
73.5	73.8	73.42	74.05	73.86	73.3	74.5	74.9
3.1	2.8	3.19	2.56	2.75	3.0	2.1	1.7
40	25	22.6-Edge Pav.		17.4-Edge Pav.	25	40	60
			76.61				

Station	Remarks	Lt	Lt	℄	Rt	Rt	Rt	Rt
9+60	= Cb BC on Lt	82.40 / 3.30 / 22.6	81.78 / 3.92 / 22.6	82.22 / 3.48	82.20 / 3.50 / 17.4	82.3 / 3.4 / 20	83.0 / 2.7 / 30	83.2 / 2.5 / 40
9+50		82.14 / 3.56 / 22.6	81.51 / 4.19 / 22.6	81.98 / 3.72	81.86 / 3.84 / 17.4	82.0 / 3.7 / 20	82.5 / 3.2 / 30	82.6 / 3.1 / 40
9+0		80.91 / 4.79 / 22.6	80.19 / 5.51 / 22.6	80.80 / 4.90	80.58 / 5.12 / 17.4	80.5 / 5.2 / 20	81.1 / 4.6 / 30	82.0 / 3.7 / 40
8+50		79.63 / 6.07 / 22.6	78.95 / 6.75 / 22.6	79.45 / 6.25	79.27 / 6.43 / 17.4	79.4 / 6.3 / 20	80.3 / 5.4 / 40	
8+0		78.35 / 7.35 / 22.6	77.67 / 8.03 / 22.6	78.19 / 7.51	78.01 / 7.69 / 17.4	78.1 / 7.6 / 20	79.2 / 6.5 / 35	79.8 / 5.9 / 40
7+52	41.1 Rt of ℄ = Ely Tel Pole ✓							
7+50		77.10 / 8.60 / 22.6 = Cb	76.35 / 9.35 / 22.6 = Gut	76.90 / 8.80	76.66 / 9.04 / 17.4 = Edge Pav	76.9 / 8.8 / 20	77.8 / 7.9 / 35	78.9 / 6.8 / 40

85.70

85.70

Lt Δ Rt

BM		0.51	85.19	NE Mon Diamond Ingraham 85.22
10+10 = Δ Diamond				
9+90 = SCL of Diamond				
9+70 = SL Diamond				
9+64	27.5 Rt of Δ = Δ Fire Hyd			
	85.70			

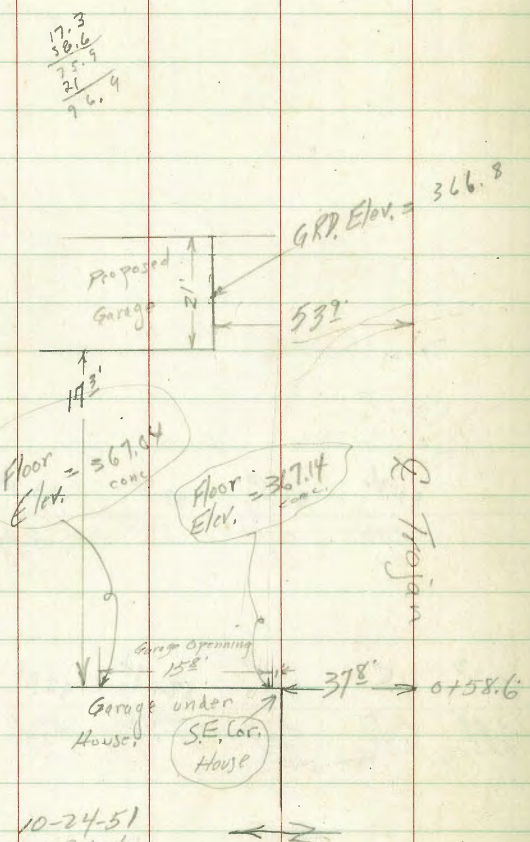
82.36	82.59	82.90	83.26	83.53
3.34	3.11	2.80	2.44	2.17
40	22.6		20	40

82.22	81.60	82.42	82.74	82.98	83.03	83.9
3.48	4.10	3.28	2.96	2.72	2.69	1.8
52.5 CLSC	52.5 Gut	22.6		20	27 Edge Pav	40

82.54	81.88	82.52	82.49	82.7	83.4
3.16	3.82	3.18	3.21	3.0	2.3
23.8 CL	23.8 Gut		17.4 Edge Pav.	20	40
		85.70			

Cross Section Trojan Ave
50th St to Altadena

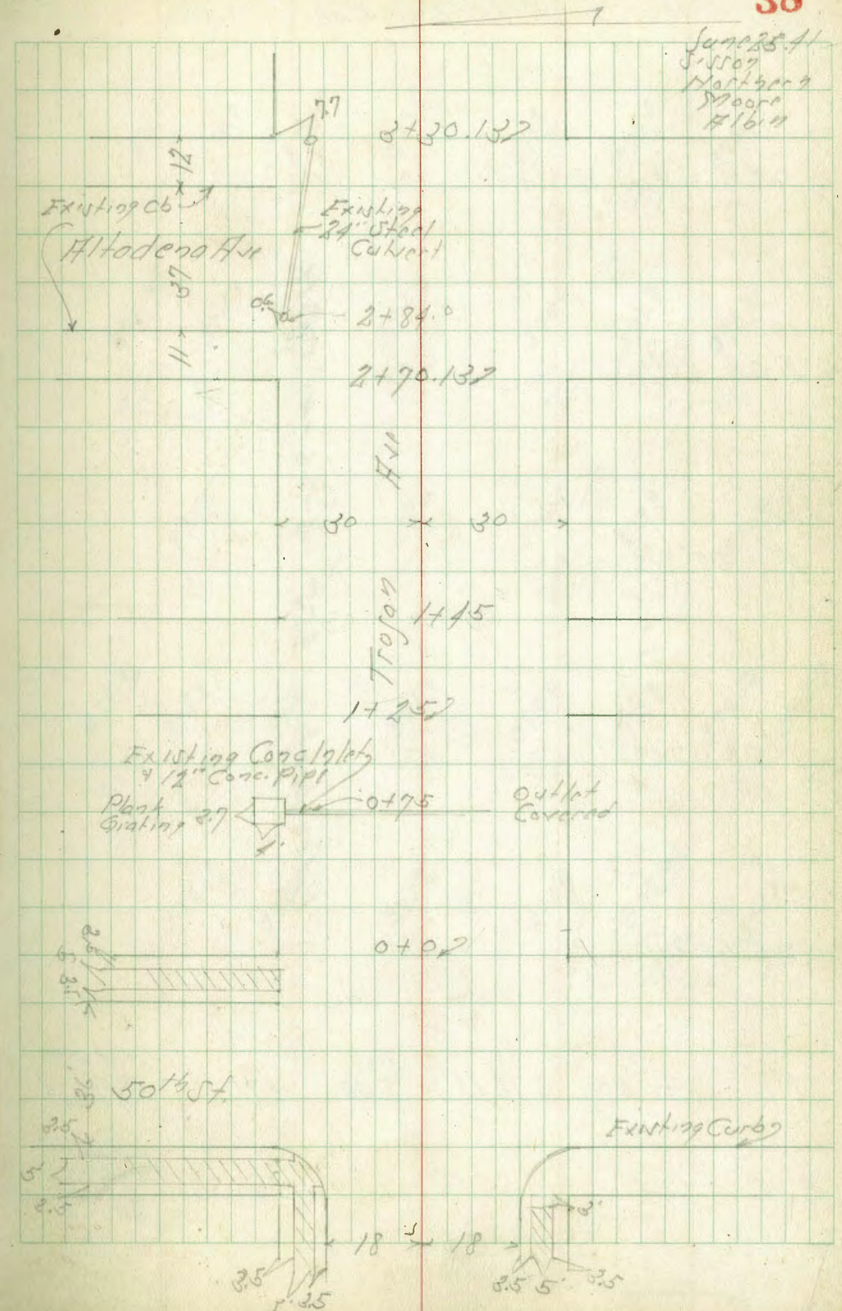
Indexed
LM



10-24-51
G. Roberts

used direct elev. Rod
BM NW EP 50th Trojan

June 28 41
S-5507
Northern
Moore
#16



Cross Section Trojan Ave
50th St to Altadena Ave

0+0 = E.L. 50th St					
E Cb 50th St					
℄ 50th St					
W Cb 50th St					
W L 50th St					
TP	0.50	376.61	8.45	376.11	N.W. B.P. Trojan & 50th St
BM	1.41	384.56		383.15	S.W. B.P. F/Cajon & 50th St B.P. out

Paton profile BSS 6-26-41 CBA

Lt = N ℄ Rt = S

	Lt = N			℄	Rt = S			
0+0 = E.L.	375.2 1.4/30	374.3 2.3/18	373.4 3.2/18	373.5 3.1	373.5 3.1/18	373.4 3.2/30	372.9 3.7/40	
E Cb	375.72 0.89/30=St Cb	374.7 1.9/30	374.4 2.2/18	374.2 2.4	374.0 2.6/18	373.8 2.8/30	373.3 3.3/40	
℄		375.5 1.1/30	375.4 1.2/18	375.0 1.6	374.4 2.2/18	373.9 2.7/30	371.0 5.6/80	
W Cb	375.92 0.69/30=Cb	375.2 1.4/30=Gut	375.1 1.5/18	375.4 1.2	374.6 2.0/18	373.8 2.8/30=Gut	374.50 2.11/30=Cb	370.87 5.74/80=Cb
W L		376.16 0.45/18=Cb	374.9 1.7/18	375.6 1.0	374.9 1.7/18	375.98 0.63/18=Cb	375.1 1.5/30	

376.61

1+45 = S.L. Alley

1+25 = N.L. Alley 20.5 Rt of ℄ = Sly Power Pole

1+0

0+75 = Conc Inlet on Lt

0+50

0+25

376.61

Lt ℄ Rt

372.3	371.4	370.3	369.8	369.6	370.0	369.9	369.3	368.5
4.3	5.2	6.2	6.8	7.0	6.6	6.7	7.2	8.1
40	30	18		5	7	18	30	40
371.0	370.7	369.8	369.8	369.3	369.2	369.6	369.3	368.5	367.6
5.6	5.9	6.8	6.8	7.3	7.4	7.0	7.3	8.1	9.0
40	30	23	18		5	8	18	30	40
	368.3	368.2	369.1	369.6	368.9	364.2	362.7	361.0	
	8.3	8.4	7.6	8.0	7.7	10.6	12.9	13.6	
	10	30	18		8	18	30	45	
366.8	360.5	367.5	367.4	368.9	368.7	368.5	369.0	361.3	356.5	354.0
9.8	16.56	9.56	9.2	7.7	7.9	8.1	7.6	15.3	20.1	22.6
40	Flow Line	30	24	18		30	5	18	30	50
	13.14	17.29								
368.2	369.1	370.2	370.3	369.6	369.7	369.5	369.5	367.3	364.7	362.0
8.1	7.5	6.4	6.2	7.0	6.9	7.1	7.1	9.3	11.9	14.6
38	30	25	18	15		8	12	18	30	45
	8'/Hour									
	373.7	372.8	371.1	371.3	371.1	370.9	369.8	368.3		
	2.9	3.8	5.6	5.3	5.5	5.7	6.8	8.3		
	30	18	14		10	18	30	40		
				376.61						

Trojan Ave.

Lt ℄ Rt

Station									
2+81.13 = W Cb	370.45 / 6.16 / 30 = S/Cb	369.9 / 6.7 / 30 = Gut	369.1 / 7.5 / 21	368.8 / 7.8 / 18	367.9 / 8.7 (℄)	364.8 / 11.8 / 18	361.9 / 14.7 / 30	361.0 / 15.6 / 40	
2+70.13 = W.L. Altadena	370.7 / 5.9 / 30	369.8 / 6.8 / 20	369.1 / 7.5 / 18	368.8 / 7.8 (℄)	368.6 / 8.0 / 7	368.2 / 8.4 / 18	366.0 / 10.6 / 30	363.8 / 12.8 / 40	
2+50	370.4 / 6.2 / 30	369.9 / 6.7 / 20	369.4 / 7.2 / 18	369.6 / 7.0 (℄)	369.5 / 7.1 / 5	370.0 / 6.6 / 18	367.7 / 8.9 / 30	366.3 / 10.3 / 40	
2+25	371.1 / 5.5 / 30	370.2 / 6.4 / 20	369.5 / 7.1 / 18	369.8 / 6.8 (℄)	369.6 / 7.0 / 6	370.4 / 6.2 / 13	370.1 / 6.5 / 18	369.3 / 7.3 / 30	368.0 / 8.6 / 40
2+0	371.3 / 5.3 / 30	370.0 / 6.6 / 18	370.0 / 6.6 (℄)	369.8 / 6.8 / 6	370.0 / 6.6 / 18	369.7 / 6.9 / 30	368.8 / 7.8 / 40		
1+70	372.2 / 4.4 / 30	370.4 / 6.2 / 18	370.0 / 6.6 (℄)	370.0 / 6.6 / 8	369.6 / 7.0 / 18	369.2 / 7.4 / 30	368.6 / 8.0 / 40		

376.61

376.61

BM -			1.83	383.15	S.W.B.P. E/Colon + 50 ft Lt 383.15
TP	8.87	384.98	0.50	376.11	
3+30.13 = F.L. Altadena					
3+30.13 = F cb Line					
3+00.13 = ℄ Altadena					
2+84.0 = Inlet 24" Steel Culv. on Lt					
		376.61			

Lt ℄ Rt

367.1	364.8	364.71	364.7	364.8	364.3	362.4	358.5	356.5
9.5 / 30	11.8 / 24	11.90 / 22.3 = F.L. 24" Steel Culv.	11.9 / 18	11.8	12.3 / 12	14.2 / 18	18.1 / 30	20.1 / 40

369.21	368.1	366.3	365.6	364.3	362.8	361.3
7.40 / 30 = 5½ Cb	8.5 / 30 = Gut	10.3 / 18	11.0	12.3 / 18	13.8 / 30	15.3 / 40

369.5	368.3	366.3	363.8	362.1	360.6
7.1 / 30	8.3 / 18	10.3	12.8 / 18	14.5 / 30	16.0 / 40

366.57

10.04 / 29.4 = F.L. 24" Steel Culv.

376.61

XSec Dawson Ave 60' wide
El Cajon to Monroe 12' curbs
9' 1/4 E

SW.BP	1.38	395.76	393.88	El Cajon Sta 57.

N c6 El Cajon

E c6	8.91	386.05
E gut	9.53	385.73
c6 pav	9.94	385.34
1/4 "	10.28	384.98
C "	10.71	384.55
1/4 "	11.26	384.00
c6 "	12.00	383.26
W c6	12.04	383.22
W gut	12.47	382.79

0+00 To 0 - 10.39 on W = W L El Cajon

W	11.5	383.8
c6 Top	11.94	384.02
gut pav	11.87	383.39
1/4 "	11.71	384.05
C "	10.71	384.55
1/4 "	10.27	384.99
gut "	10.00	385.26
c6 Top	9.64	385.80
E	8.8	86.5

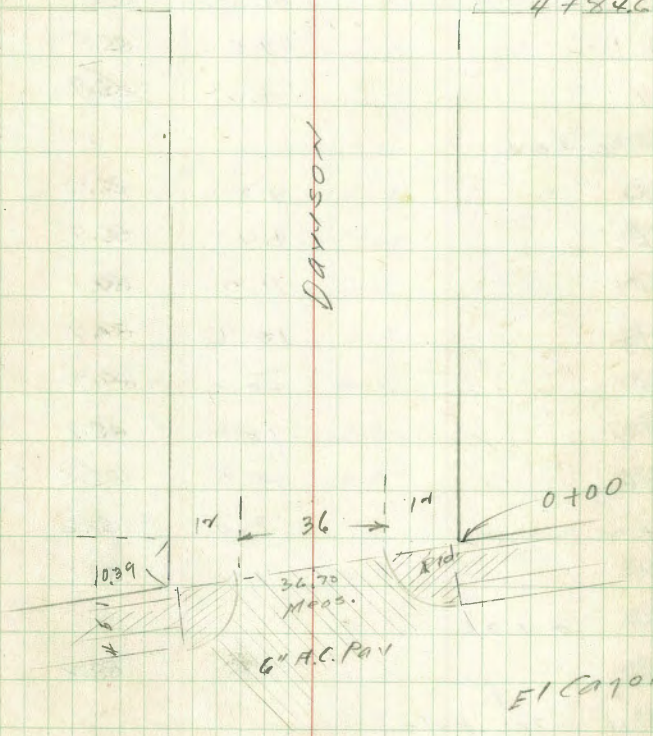
Notes Reduced 7-25-41

INDEXED
WK
JAN 18 1949

Moore
G. Farrow
7-26-41.

Monroe

4+84.65



395.26

2' N and par. with N. h. El Cajon

E			8.6	386.7
c6			9.6	85.7
1/4			10.3	85.0
c			10.7	84.6
1/2			11.2	84.1
c6			11.5	83.8
+1			9.5	85.8
W			9.4	85.9
0+04				
W			9.3	86.0
c6			9.4	85.9
+1			11.2	84.1
1/4			10.6	84.7
c			10.6	84.7
1/4			10.2	85.1
c6			9.8	85.5
+2			8.0	87.3
E			7.2	88.1
0+36				
E			7.1	88.2
+11	Tel Pole			
c6			7.3	88.0
+2			8.9	86.4
1/4			8.6	86.7
c			8.7	86.6

395.26

1/2			9.1	386.2
c6			9.3	86.0
+2			8.5	86.8
W			8.8	86.5
T.P.	3.60	391.26	7.60	387.66
0+65				
-5			4.6	386.7
W			4.4	86.9
c6			4.3	87.0
1/4			3.8	87.5
c			3.6	87.7
1/4			3.5	87.8
c6			3.2	88.1
E			3.0	88.3
1+00				
E			2.2	89.1
c6			2.8	88.5
1/4			3.3	88.0
c			3.8	87.5
1/4			4.1	87.2
c6			4.4	86.9
W			4.8	86.5
+5			5.2	386.1

	1+35			
-5			5.3	386.0
W			5.0	86.3
cb			4.7	86.6
1/4			4.2	87.1
C			4.1	87.2
1/4			3.4	87.9
cb			3.0	88.3
E			2.5	88.8
	1+67			
E			3.0	88.3
+11	Tel Pole		3.7	87.6
cb			3.7	87.6
1/4			4.1	87.2
C			4.4	86.9
1/4			4.7	86.6
cb			5.0	86.3
W			5.3	86.0
+5			5.9	85.4
	2+00			
-5			5.6	86.7
W			5.2	86.1
cb			5.0	86.3
1/4			4.8	86.5
.0			4.5	86.8

1/4	4.3	387.0
cb	4.0	87.3
E	3.1	88.2
2+50		
E	3.3	88.0
cb	4.0	87.3
1/4	4.4	86.9
C	4.5	86.8
1/4	4.7	86.6
cb	4.9	86.4
W	4.7	86.6
+5	5.4	85.7
2+80		
W & 3' walk	4.55	387.71
2+90		
W & do rib. conn. dr.	4.50	86.76
E " " "	3.20	88.06
3+00		
-5	5.7	85.6
W	4.4	86.7
cb	4.7	86.6
1/4	4.4	86.9
C	4.0	87.3
1/4	4.0	87.3
cb	3.9	87.4
E	3.4	87.9

		391.26		
	3+04			
E +9	Tel Pole			
	3+41			
W/ 9	do. R16 Cent. Dn.		4.45	386.81
E	" " " "		3.16	388.10
	3+60			
E	Lawn		3.7	88.1
cb	"		3.6	87.7
1/4			3.6	87.7
c			3.4	87.7
1/4			4.1	87.2
cb			4.5	86.8
W/	E 3.5 cent walk		4.51	86.75
	4+00			
W/			4.4	86.9
cb			4.1	87.2
1/4			3.9	87.4
c			3.4	87.9
1/4			3.5	87.8
cb			3.4	87.9
E			2.8	88.5
		✓		
T.P.	5.31	393.11	2.46	387.80 ✓
	4+07			
W/ 9	3' cent walk		6.20	386.91

393.11

	4+25		
W/ 9	do. R16 Cent Dn.	6.00	387.11
	4+35		
E		4.2	88.9
+9	Tel Pole		
+11		4.6	88.5
cb		5.3	87.8
1/4		5.0	88.1
c		5.0	88.1
1/4		5.6	87.5
cb		6.0	87.1
+1		5.3	87.8
W		5.3	87.8
	4+31		
W +11	Power Guy Pole		
E 9 4'	cent walk	3.62	389.79
	4+42		
W/ 9	4' cent walk	5.00	88.11
	4+69		
E 9	4' cent "	3.43	89.68
	4+84.65 SL	Manhole	
W/		2.8	88.3
cb		5.2	87.9
1/4		4.8	88.3
c		4.6	88.5

		393.11			
1/4			4.7	~~388.4~~	
ab			4.9	388.2	
+ N			4.3	~~388.8~~	
E			3.8	389.3	
Nail Pole	5ft. Monroe Contour		1.0 N	393.09	392.08

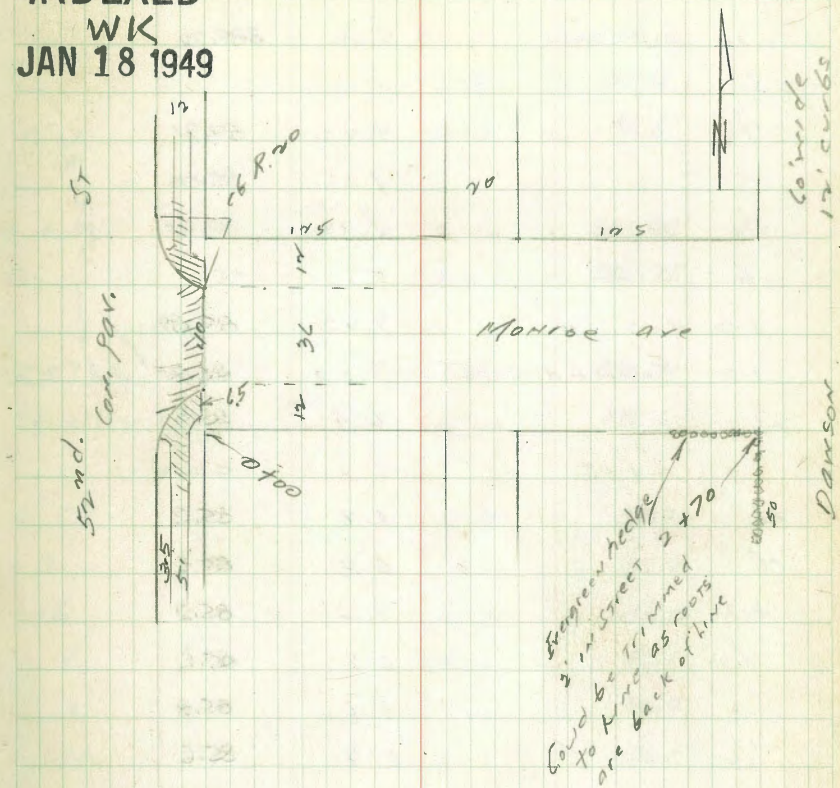
Co'wide 12' curbs 9' 1/4 s

Xsec Monroe Ave

E.L. 52nd to E.L. Dawson Ave

5 nr Cor Nail Pole	0.28	392.36 ✓		392.08 ✓	Monroe Contour
0+12 E cb line 52nd					
S - 8 cb P.C. Top			7.29	385.07	
" gut			7.89	84.47	
S pav			7.77	84.59	
cb "			7.73	84.63	
1/4 "			7.65	84.71	
c "			7.60	84.76	
1/4 "			7.55	84.81	
cb "			7.50	84.86	
N "			7.43	84.93	
+ 8 cb P.C. gut			7.41	84.95	
" cb " Top.			7.01	85.35	
0 + 6					
N Top cb			7.04	385.32	
" gut			7.49	84.87	
c			7.45	84.91	
S gut			7.65	84.71	
S Top cb.			7.21	85.15	
0+00 E.L. 52nd					
S			6.8	85.6	
+10 Top end Curb			7.21	385.15	385.1x — 1773-36

C. Moore G. Farrow 7-30-41.



		397.3 C				397.3 C		
S + 10	QUT pav		7.64	389.72	1/4		6.5	385.9
c6	"		—		c6		6.8	85.6
1/4	"		7.45	89.91	N		6.6	85.8
c	"		7.36	85.00	0 + 58			
1/4	"		7.39	89.97	S + 3.7 W.L Con. apron drive		6.70	385.66 3.7 IN ST.
c6	"		—		S		6.61	385.75
+ 2	QUT "		7.47	89.89	0 + 66			
+ 2	Top end curb		7.09	85.27 385.27	S		6.65	385.71
N			6.9	85.5	+ 3.7 E.L Con. apron drive		6.73	385.63
	0 + 15				1 + 00			
N			6.8	85.6	- 5		7.5	89.9
c6			6.8	85.6	S		7.0	85.9
+ 3			7.2	85.2	c6		6.4	86.0
1/4			6.8	85.6	1/4		6.3	86.1
c			6.6	85.8	c		6.0	86.4
1/4			6.8	85.6	1/4		6.3	86.1
c6			6.7	85.7	c6		6.2	86.2
S			6.3	86.1	N		6.0	86.4
	0 + 28				1 + 03.5			
S + 10 P.P					N - 0.3 W.L Con. apron drive		5.69	386.67
	0 + 50				1 + 23.4			
S			6.7	86.7	N - 0.3 E.L Con. apron drive		5.77	86.59
c6			6.4	86.0	1 + 35			
1/4			6.4	86.0	N		5.5	86.9
c			6.2	86.2	c6		5.9	86.5

1 + 23.7 + 10 - P.P.

S

1/4			5.8	386.6
C	M.H. Rim		5.4	87.0
1/4			5.9	86.5
CL			6.3	86.1
S			6.4	86.0
+5			6.8	85.6
	1+70			
-5			6.6	85.8
S			5.9	86.5
CL			5.8	86.6
1/4			5.7	86.7
C			5.5	86.9
1/4			5.7	86.7
CL			5.8	86.6
N			5.4	87.0
	2+00			
N			4.9	387.5
CL			5.5	86.9
1/4			5.4	87.0
C			5.2	87.2
1/4			5.4	87.0
CL			5.2	87.2
S			5.6	86.8
+5			5.9	86.5

	2+06.7		
N	W.L Con apron	4.75	387.61 1.1 IN ST.
N+1.1	" " "	4.92	387.44
	2+07.5		
N	E.L apron	4.67	387.69
N+1.1	" "	4.80	387.56
	2+07.4		
S	W.L Con apron	4.97	387.39
S+0.7	" " "	4.96	387.40 0.7 IN ST.
	2+19.2		
S	E.L Con apron Drive	4.93	387.43
S+0.7	" "	4.91	387.43
2+19.2	W.L Con. walk	0.7 IN ST.	
2+25.7	E.L " "	" " "	
	2+20		
S		4.5	387.9
CL		4.8	387.6
1/4		4.8	87.6
C		4.7	87.7
1/4		4.8	87.6
CL		5.0	87.4
N		4.5	87.9
	N+70 W.L Dawson		
N		4.0	88.4

N℄		4.4	388.0
1/4		4.4	88.0
c		4.1	88.3
1/4		4.3	88.1
c℄		4.4	88.0
S		4.1	88.3
	7 + 69		
S + 10 P.P.			
	W c℄ Dawson		
S		4.5	387.9
c℄		4.3	88.1
1/4		4.1	88.3
c		4.0	88.4
1/4		4.2	88.2
c℄		4.3	88.1
N		4.4	88.0
	E Dawson		
N		3.8	88.6
c℄		3.8	88.6
1/4		3.8	88.6
c		3.8	88.6
1/4		3.9	88.5
c℄		3.9	"
S		3.9	"

E c℄ Dawson

S		3.5	388.9
c℄		4.0	88.4
1/4		3.8	88.6
c		3.6	88.8
1/4		3.6	"
c℄		3.5	88.9
N		3.4	89.0
	E 2 Dawson		
	P 16		


Fd E.C. Hubs
Denver
Frio
Littlefield
Block 13
First Add to
Asbers Clover
Leaf Terrace
Morenci
Asber
St
Block 16
St
Tonopah
St.
P.L. Line 2
Fd Mon
First Addition to
Asbers Clover
Leaf Terrace
Aug 13-41
Sisson
W Moore
= Hubs Set

Cross Section Littlefield St.
Denver St to Frankfort St.

Sketch Page 52

0+0 = ℄ Lieta at Denver					
0-25 = N.L. Lieta From south					
N W Curb Return Denver					
0-74.3 = opp Cb EC on Lt.					
BM			6.96	46.74	N.E.B.P. Littlefield & Denver N End Curb EC
TP	3.92	53.70	10.52	49.78	
TP	1.98	60.30	7.44	58.32	
BM	10.13	65.76		55.63	N W BP Frankfort [illegible]

Row										
0+0	46.67 / 7.03 / 25 on Pav	46.88 / 6.82 / 16=Pav	47.0 / 6.7 / 15	47.2 / 6.5	47.2 / 6.5 / 9	47.9 / 5.8 / 10	47.7 / 6.0 / 15	48.0 / 5.7 / 25		
0-25	46.06 / 7.64 / 25 on Pav	46.22 / 7.48 / 16=Paving	46.3 / 7.4 / 15	46.6 / 7.1	46.7 / 7.0 / 9	47.2 / 6.5 / 10	47.2 / 6.5 / 15	47.4 / 6.3 / 25		
N W Curb Return	45.50 / 8.20 / 53.8 = Cb	45.09 / 8.61 / 53.8 = N EC	45.73 / 7.97 / 39.6 = Cb	45.22 / 8.48 / 39.6 Gut	45.70 / 8.00 / 26.4 = Cb	45.22 / 8.48 / 26.4 Gut	45.43 / 8.27 / 13.2 = Cb	44.92 / 8.78 / 13.2 Gut	45.25 / 8.45 / 9 = Cb	44.80 / 8.90 / 9 Gutter on Paving; 0.0 = N EC
0-74.3	45.50 / 8.2 / 25	44.89 / 8.81 / 15 = Cb	45.1 / 8.6 / 15	45.4 / 8.3	45.5 / 8.2 / 8	47.2 / 6.5 / 10	46.7 / 7.0 / 15	46.6 / 7.1 / 25		

53.70

Red. 8/21/41 (W.)
Checked 8/22/41 (W.)
Plotted 8/25/41 (W.)

Lt. N — ℄ — Rt. S

Station											
1+0			50.9 2.8/25		50.5 3.2/15		50.4 3.3	49.4 4.3/9	50.2 3.5/11	50.0 3.7/25	49.9 3.8/35
0+93 ℄ 8' Conc Drive on Lt			51.03 2.67 24.8: ℄ 8' Conc Drive								
0+65			49.9 3.8/25		49.6 4.1/15		49.7 4.5	48.5 5.2/10	49.1 4.6/12	49.0 4.9/15	49.1 4.6/25
N.E. Curb Return	46.75 6.95 16:Cb	46.17 7.53 46:Gut	47.07 6.63 34.5:Cb	46.55 7.15 34.5:Gut	47.46 6.24 23:Cb	46.97 6.73 23:Gut	47.92 5.78 11.5:Cb	47.41 6.29 11.5:Gut	48.10 5.60 8:Cb	47.55 6.15 8:Gutter	0.0:FFC
0+37 Opp Cb E.C. on Lt			49.0 4.7/25		48.52 5.18 15:Cb	48.1 5.6/15	48.4 5.3	47.9 5.8/9	48.5 5.2/11	48.5 5.2/15	48.6 5.1/25
0+25 E.L. Lieto			48.5 5.2/25		47.41 6.29 15:Bv	47.4 6.3/15	48.0 5.7	47.6 6.1/9	48.4 5.3/11	48.4 5.3/15	48.4 5.3/25

53.70

53.70

Littlefield

Station				Lt.			℄		Rt.		
2+90 = ℄ Morenci		60.32 4.81 25 on Pav	60.43 4.70 16: Pav.	60.4 4.7 15	60.9 4.2	61.0 4.1 9	61.8 3.3 15	61.7 3.4 25			
2+65 = N.L. Morenci St.		59.37 5.76 25 on Pa	59.46 5.67 16: Pav.	59.3 5.8 15	59.4 5.7	59.0 6.1 9	60.2 4.9 12	60.3 4.8 15	60.3 4.8 25		
N.W. Return Curb Return	59.07 6.06 47.08 N.W. EC	58.50 6.63 47.08 Gut	59.23 5.90 35.31 Cb	58.73 6.40 35.31 Gut	58.97 6.16 23.54 Cb	58.49 6.64 23.54 Gut	58.37 6.76 11.77 Cb	57.93 7.20 11.77 Gut	58.17 6.96 7.6 Cb	57.72 7.41 7.6 Gutter	0.0 = N.W. EC
2+32.7 = opp CbEC on Lt.		56.8 8.3 25	57.7 7.4 20	57.82 7.31 15: Cb	57.2 7.9 15	57.5 7.6	56.8 8.3 10	57.7 7.4 12	57.7 7.4 15	57.1 8.0 25	56.7 8.4 35
2+0			54.5 10.6 25	54.6 10.5 15	55.1 10.0	54.3 10.8 9	54.3 10.8 15	54.1 11.0 25	53.8 11.3 35		
TP 11.62 65.13 0.19 53.51					65.13						
1+50		51.8 1.9 25	52.8 0.9 15	52.4 1.3 10	52.2 1.5	51.3 2.4 10	52.2 1.5 11	51.8 1.9 15	51.7 2.0 25	51.5 2.2 35	
53.70					53.70						

Lt ₵ Rt

Station	Readings (rod / distance : elevation)
3+80	0.0/25 : 72.1; 1.2/18 : 70.9; 2.2/15 : 69.9; 3.1/12 : 69.0; 3.6 : 68.5
3+75	5.0/25 : 69.1; 3.5/15 : 68.6; 4.0 : 68.1; 4.1/10 : 67.7; 3.8/12 : 68.3; 4.0/15 : 68.1; 4.1/25 : 68.0; 4.6/35 : 67.5
3+50	4.06/35 : 68.00; 4.27/31 : 67.79; 4.1/25 : 68.0; 4.5/15 : 67.6; 5.3/10 : 66.8; 5.8 : 66.3; 5.9/10 : 66.2; 5.1/12 : 67.0; 5.2/15 : 66.9; 5.7/25 : 66.4; 5.8/35 : 66.3
N.E. Curb Return	11.32/44.72 : 60.74; 11.87/44.72 Gut : 60.19; 10.88/33.54 Cb : 61.18; 11.50/33.54 Gut : 60.56; 10.44/22.36 Cb : 61.62; 11.03/22.36 Gut : 61.03; 10.06/11.18 Cb : 62.00; 10.58/11.18 Gut : 61.48; 9.91/8 Cb : 62.15; 10.45/8 Gut : 61.61; 0.0 = E.C.
3+30 = Opp Cb EC ...	6.5/25 : 65.6; 9.57/16 Cb : 62.49; 9.4/15 : 62.7; 8.7/10 : 63.4; 8.2 : 63.9; 7.8/10 : 64.3; 7.1/12 : 65.0; 7.0/15 : 65.1; 7.0/35 : 65.1; 7.4/35 : 64.7
TP	8.65 — 72.06 — 1.72 — 68.41
3+15 = E.L. Moresco From South	2.1/25 : 63.0; 3.65/16 Gut : 61.48; 3.5/15 : 61.6; 2.5 : 62.6; 1.9/10 : 63.2; 0.4/15 : 64.7; 0.9/25 : 64.2

72.06

65.13

Littlefield

Station	Lt				¢				Rt
5+26.8 = opp Cb EC on Lt	8.0/25 64.1	7.9/25 64.2	7.09/15 Cb 64.97	7.8/15 64.3	8.1 64.0	8.3/5 63.8	9.5/15 62.6	9.5/25 62.6	9.4/35 62.7
5+0		7.7/35 64.4	7.8/25 64.3	7.5/15 64.6	7.7 64.4	7.9/7 64.2	8.9/15 63.2	8.9/25 63.2	8.8/35 63.3
4+75	5.4/25 66.7	5.9/15 66.2	6.2/10 65.9	6.6 65.5	6.7/8 65.4	5.9/10 66.2	5.8/15 66.3	5.8/25 66.3	6.1/35 66.0
4+50	2.3/25 69.8	3.4/15 68.7	4.5/10 67.6	5.1 67.0	5.0/9 67.1	4.0/11 68.1	3.8/15 68.3	3.9/25 68.2	4.1/35 68.0
4+25	0.7/25 71.4	1.9/15 70.2	3.4/10 68.7	4.0 68.1	4.2/10 67.9	3.6/12 68.5	2.9/15 69.2	3.5/25 68.6	3.8/35 68.3
4+0	0.4/25 71.7	1.3/15 70.8	2.7/10 69.4	3.4 68.7	4.0/10 68.1	3.5/12 68.6	3.3/15 68.8	3.3/25 68.8	

7206

72.06

BM			11.24	55.65	N.W. B.P. Frankfort & Ashton 55.63
TP	4.40	66.89	9.57	62.49	

6+58.27 E.L. Frankfort on Diagonal

6+34 3.6 Rt of ℄ = Sly Power Pole

6+13.15 = ℄ Frankfort on Diagonal

5+68 = W.L. Frankfort From N on Diagonal

N W Curb Return Frankfort

72.06

Lt ℄ Rt

6+58.27: 65.5 (6.6 / 28.2) · 65.59 (6.49 / 28 Sly Conc Walk) · 65.7 (6.4 / 16.9) · 65.7 (6.4) · 65.3 (6.8 / 16.9) · 64.6 (7.5 / 28.2) · 63.7 (8.4 / 35)

6+13.15: 65.0 (7.1 / 28.2) · 65.7 (6.4 / 16.9) · 66.1 (6.0 / 0.0) · 65.35 (6.71 on Mon) · 66.2 (5.9 / 16.9) · 66.4 (5.7 / 28.2) · 66.3 (5.8 / 35)

5+68: 64.1 (8.0 / 28.2) · 64.1 (8.0 / 16.9) · 64.2 (7.9) · 64.6 (7.5 / 16.9) · 64.8 (7.3 / 28.2) · 65.8 (6.3 / 35)

N W Curb Return: 64.63 (7.43 / 61.0 Cen FC) · 63.95 (8.11 / 61.0 Gut offset) · 64.68 (7.38 / 45.75 Cb) · 64.0 (8.1 / 45.75 Gut) · 64.73 (7.33 / 30.5 Cb) · 64.1 (8.0 / 30.5 Gut) · 64.80 (7.26 / 15.25 Cb) · 64.0 (8.1 / 15.25 Gut) · 64.97 (0.0 = W FC)

72.06

Cross Section Licta St
Tonopah St to Littlefield St.
Sketch Page 52

Aug. 15 41
Northern
W. Moore

						Lt. N			℄	Rt. E		
1+0						43.4 4.8 35	43.7 4.5 25	43.9 4.3 15	44.4 3.8	44.9 3.3 15	45.4 2.8 25	45.3 2.9 35
0+50						43.1 5.1 35	43.7 4.5 25	44.5 3.7 15	44.8 3.4	46.1 2.1 15	46.6 1.6 25	46.6 1.6 35
BM			4.87	43.36	Mon S.L. Tonopah St. & N.W.L. Licta							
0+0 = N.L. Tonopah						43.5 4.7 35	44.1 4.1 35	44.5 3.7 15	45.1 3.1	46.1 2.1 15	46.7 1.5 35	46.8 1.4 35
TP	2.26	48.23	6.08	45.97					48.23			
TP	9.00	52.05	0.44	43.05								
TP	11.61	43.49	0.49	31.88								
TP	11.60	32.37	0.44	20.77								
TP	11.03	21.21	0.73	10.18								
BM	0.87	10.91		10.04	B.P. ℄ Cult. Moreno at Tecolote Creek							

17+50	18+00	18+50	19+00	19+50	20+00	20+50
42.4	42.1	40.9	40.1	40.4	40.9	
42.8	42.2	41.4	40.4	40.6	40.8	Rt.
43.3	42.7	41.8	40.5	40.6	40.7	
43.3	42.8	41.9	40.6	40.8	40.9	Lt.
43.5	43.0	41.9	41.0	41.3	41.4	
43.9	43.0	42.7	41.6	41.7	42.0	Rt.
44.0	42.6	42.8	41.6	41.7	42.2	

18+22

60

Lieta St.

Station	Rod	H.I.	Rod	Elev.	Lt. 40	Lt. 25	Lt. 15	¢	Rt. 15	Rt. 25	Rt. 35
6+0					38.1 (13.5/40)	39.0 (12.6/25)	39.4 (12.2/15)	40.2 (11.4)	41.0 (10.6/15)	41.8 (9.8/25)	42.4 (9.2/35)
5+60					37.6 (14.0/40)	39.2 (12.4/25)	40.2 (11.4/15)	41.7 (9.9)	42.6 (9.0/15)	43.4 (8.2/25)	44.0 (7.6/35)
5+30					40.5 (11.1/35)	41.9 (9.7/25)	42.8 (8.8/15)	43.9 (7.7)	44.8 (6.8/15)	45.6 (6.0/25)	45.8 (5.8/35)
TP	8.61	51.63	5.21	43.02				51.63			
5+0					42.0 (6.2/35)	42.4 (5.8/25)	43.0 (5.2/15)	43.8 (4.4)	44.6 (3.6/15)	45.1 (3.1/25)	45.6 (2.6/35)
4+50 1/2 = NL Asher						41.6 (6.6/25)	41.8 (6.4/15)	42.7 (5.5)	43.3 (4.9/15)	43.6 (4.6/25)	
4+00 1/2 = SL Asher					40.9 (7.3/35)	40.9 (7.3/25)	41.5 (6.7/15)	41.9 (6.3)	42.6 (5.6/15)	42.9 (5.3/25)	
		48.23						48.23			

40.6	44.7	46.5	47.4	
41.0	45.2	47.0	47.6	47.3
41.4	45.9	47.6	47.9	47.4
42.1	47.2	48.2	48.3	48.0
42.5	47.5	48.6	48.5	48.1
42.9	47.5	48.9	48.8	48.4
43.0	47.2	48.9	49.0	

Cross Section Tonopah St
West of Licta St to East of Morenci St.
Sketch Page 62

					Lt: N	South Line	Rt: S
0+84.45 = E.L. Licta					46.5	46.5	46.5
					46.3		34.5
0+59.45 = E Licta					45.1	45.9	32.4
					45.5		31.9
0+34.45 = W.L. Licta					44.0	44.8	31.8
					44.5		31.3
0+20					43.3	44.1	31.6
					32.1		
0+16					43.1	44.1	44.3
0+0 = W.L. First Add to Ashpers Clover Leaf Tract					42.6	43.3	43.8
BM	8.98	52.34	1836	Mon St. Tonopah 21' W.L. Licta		52.24	

Sta.					Lt.		℄		Rt.	
3+24.45 = H.L. Morenci					5.2/25 47.0	5.2/10 47.0	5.4 46.8	5.4/1 46.8	17.4/7 34.8	18.0/25 34.2
3+0					5.1/25 47.1	5.1/10 47.1	5.1 47.1	5.1/1 47.1	18.1/7 34.1	18.9/25 33.3
2+50					5.0/25 47.2	5.0/10 47.2	4.8 47.4		16.8/7 35.4	18.0/25 34.2
2+0					4.7/25 47.5	4.9/10 47.3	4.7 47.5	4.7/1 47.5	19.7/8 32.5	20.5/25 31.7
TP	8.81	52.17	8.98	43.36			52.17			
1+50					4.7/25 47.6	4.8/10 47.5	4.5 47.8	4.5/1 47.8	15.5/7 36.8	16.5/25 35.8
1+0					5.3/25 47.0	5.3/10 47.0	5.1 47.2	5.1/1 47.2	17.6/7 34.7	18.6/25 33.7
		52.34					52.34			

Tonopah St.

Station		Lt 25	Lt 10	℄	Rt 1	Rt 7	Rt 25
4+61.02	= F.L. First Add to Asher Clover Leaf Terr.	42.9 (9.3/25)	42.4 (9.8/10)	42.5 (9.7)		35.5 (16.7/7)	34.4 (17.8/25)
4+30		44.7 (7.5/25)	44.2 (8.0/10)	44.4 (7.8)	44.4 (7.8/1)	35.4 (16.8/7)	34.5 (17.7/25)
4+0		46.0 (6.2/25)	45.8 (6.4/10)	45.8 (6.4)	45.8 (6.4/1)	35.2 (17.0/7)	34.2 (18.0/25)
3+74.45	= F.L. Morenci	46.9 (5.3/25)	46.3 (5.9/10)	46.4 (5.8)	46.4 (5.8/1)	34.4 (17.8/7)	33.9 (18.3/25)
3+49.45	= ℄ Morenci	47.2 (5.0/25)	46.7 (5.5/10)	46.8 (5.4)	46.8 (5.4/1)	34.2 (18.0/7)	33.2 (19.0/25)

52.17

52.17

Cross Section Morenci St.
From Tonopah to Littlefield

Sketch Page 52

Station	Lt. = W			℄	Rt. = E		
2+50	44.7 7.5/25	44.8 7.4/25	45.0 7.2/15	45.4 6.8	46.0 6.2/15	46.1 6.1/25	46.1 6.1/35
2+0	44.8 7.4/35	44.8 7.4/25	44.7 7.5/15	44.9 7.3	45.2 7.0/15	45.1 7.1/25	45.1 7.1/35
1+50	45.4 6.8/35	45.3 6.9/25	45.2 7.0/15	45.2 7.0	45.1 7.1/15	45.2 7.0/25	45.3 6.9/35
1+0	46.4 6.8/35	45.7 6.5/25	45.5 6.7/15	45.4 6.8	45.4 6.8/15	45.4 6.8/25	45.4 6.8/35
0+50	46.0 6.2/35	46.0 6.2/25	46.0 6.2/15	45.9 6.3	46.0 6.2/15	46.1 6.1/25	46.0 6.2/35
0+0 = N.L. Tonopah		46.9 5.3/25	47.0 5.2/15	47.1 5.1	47.0 5.2/15	46.9 5.3/25	

52.17 B/ Ford

52.17

4+53					
4+50 30 = H.L. Asber					
TP	11.86	61.89	2.14	50.03	on Z Hob. Asber & Moore
4+00 30 - S.L. Asber					
3+50					
3+10					
2+90					
		52.17			

Sta.	Lt. 35	Lt. 25	Lt. 15	℄	Rt. 15	Rt. 25	Rt. 35
4+53	51.0 (10.9 / 35)	51.5 (10.4 / 25)	51.8 (10.1 / 15)	52.7 (9.2)	52.5 (9.4 / 15)	52.6 (9.3 / 25)	
4+50		50.1 (11.8 / 25)	50.2 (11.7 / 15)	50.8 (11.1)	51.4 (10.5 / 15)	51.2 (10.7 / 25)	
TP				61.89			
4+00		49.2 (3.0 / 25)	49.2 (3.0 / 15)	49.9 (2.3)	50.4 (1.8 / 15)	50.6 (1.6 / 25)	
3+50	46.9 (5.3 / 35)	47.1 (5.1 / 25)	47.8 (4.4 / 15)	48.8 (3.4)	49.4 (2.8 / 15)	49.7 (2.5 / 25)	50.2 (2.0 / 35)
3+10	45.9 (6.2 / 35)	46.7 (5.5 / 25)	47.5 (4.7 / 15)	48.6 (3.6)	49.2 (3.0 / 15)	49.4 (2.8 / 25)	49.5 (2.7 / 35)
2+90	45.7 (6.5 / 35)	46.1 (6.1 / 25)	46.4 (5.8 / 15)	46.9 (5.3)	47.3 (4.9 / 15)	47.8 (4.4 / 25)	48.3 (3.9 / 35)
				52.17			

Morenci

TP	6.86	67.85	0.90	60.99
7+50				
7+0				
6+50				
6+0				
5+50				
5+0				
		61.89		

	Lt.					Rt.	
7+50	58.0	58.7	59.1	59.4	59.9	60.7	61.1
7+0	54.9	55.3	55.8	56.6	56.9	57.8	58.2
6+50	53.7	54.3	54.6	55.2	55.8	56.9	57.2
6+0	54.4	55.1	55.6	56.3	56.9	57.8	58.4
5+50	54.1	54.5	54.7	55.1	55.7	56.2	56.3
5+0	52.8	53.1	53.5	54.0	53.9	54.1	54.0

61.89

BM			5.39	62.46	N.E. Tooel(?) Littlefield ... 62.49
8+25.61 = S.L. Littlefield					
8+0					
7+75					
		67.85			

Station	Lt.			⊈			Rt.
8+25.61	9.0 / 35 58.9	7.5 / 25 60.4	6.6 / 15 61.3	6.1 61.8	4.4 / 15 63.5	3.5 / 25 64.4	
8+0	9.0 / 35 58.9	7.9 / 25 60.0	7.2 / 15 60.7	6.7 61.2	5.6 / 15 62.3	4.6 / 25 63.3	3.3 / 35 64.6
7+75	9.8 / 35 58.1	8.8 / 25 59.1	7.7 / 15 60.2	6.9 61.0	6.2 / 15 61.7	5.1 / 25 62.8	5.0 / 35 62.9
				67.85			

Cross Section Asher St.
West Line to East Line First Add. to
Ashers Clover Leaf Terr.

Sketch Page 52

Station		Lt=H				℄		Rt=S		
1+50	47.8 3.9/28	46.7 5.0/25	46.1 5.6/20	44.7 7.0/15	45.2 6.5/8	44.7 7.0	44.4 7.3/13	45.3 6.4/15	45.3 6.4/25	45.0 6.7/35
1+0	44.9 6.8/35	44.1 7.6/25	43.9 7.8/18	43.3 8.4/15		43.1 8.6	42.6 9.1/12	43.2 8.5/15	43.4 8.3/25	42.4 9.3/35
0+84.66 = E.L. Lieto		43.5 8.2/25	43.2 8.5/18	42.7 9.0/15		42.5 9.2	42.4 9.3/13	43.0 8.7/15	42.9 8.8/25	
0+59.66 ℄ Lieto		42.7 9.0/25	42.4 9.3/18	41.9 9.8/15		41.5 10.2	41.4 10.3/12	42.0 9.7/15	41.9 9.8/25	
0+34.66 = W.L. Lieto		41.5 10.2/25	41.7 10.0/18	40.7 11.0/15		40.6 11.1	40.5 11.2/13	41.2 10.5/15	40.9 10.8/25	
0+0 = W.L. First Add. to Asher Clover Leaf Terr.	39.4 12.3/35	39.6 12.1/25	40.3 11.4/17	39.4 12.3/15		39.2 12.5	39.2 12.5/15	40.0 11.7/25	39.5 12.2/35	

BM 1.68 51.71 50.03 on Hub Asher & Moreno? Page 64

51.71

3+74.66 = E.L. Morenci St.

TP	6.08	56.11	1.68	50.03

3+49.66 = ℄ Morenci St.

3+24.66 = W.L. Morenci St.

3+0

2+50

2+0

51.71

Station		Lt			℄		Rt		
3+74.66		51.2 4.9/25	51.2 4.9/17	50.7 5.4/15	50.7 5.4	50.4 5.7/13	51.0 5.1/15	50.7 5.4/25	
					56.11				
3+49.66		50.8 0.9/25	50.7 1.0/15	50.1 1.6/14	50.2 1.5/8	50.1 1.6	49.9 1.8/13	50.4 1.3/15	49.9 1.8/25
3+24.66		50.0 1.7/25	49.9 1.8/15	49.4 2.3/14	49.7 2.0/8	49.6 2.1	49.4 2.3/13	49.8 1.9/15	49.5 2.2/25
3+0	50.4 1.3/28	49.5 2.2/25	49.3 2.4/15	48.8 2.9/14	49.2 2.5/8	49.1 2.6	48.6 3.1/13	49.2 2.5/15	48.6 3.1/25	47.8 3.9/35
2+50	49.8 1.9/28	48.5 3.2/25	48.3 3.4/17	47.7 4.0/15	48.0 3.7/8	47.8 3.9	47.4 4.3/13	48.1 3.6/15	47.8 3.9/25	46.8 4.9/35
2+0	48.4 3.3/28	47.4 4.3/25	47.1 4.6/15	46.0 5.7/13	46.4 5.3/8	46.4 5.3	46.0 5.7/13	46.8 4.9/15	46.7 5.0/25	45.7 6.0/35
					51.71				

Station	Lt					℄	Rt			
4+61.23 = E.L. First Add to Asher Clover Leaf Terr.	4.4/35 51.7	3.8/25 52.3		3.7/15 52.4	4.4/13 51.7	4.1 52.0	4.4/13 51.7	3.8/15 52.3	3.9/25 52.2	4.4/35 51.7
4+30	3.8/35 52.3	3.9/25 52.2	4.1/15 52.0	4.7/14 51.4	4.4/8 51.7	4.6 51.5	4.9/13 51.2	4.2/15 51.9	3.9/25 52.2	4.4/35 51.7
4+0	4.1/35 52.0	4.3/25 51.8	4.5/15 51.6	5.2/14 50.9	4.8/8 51.3	4.9 51.2	5.3/13 50.8	4.6/15 51.5	4.4/25 51.7	4.7/35 51.4

56.11

56.11

Cross Section Alley Block 16
First Addition to Ashers Clover Leaf Terrace
From Tonopah St to Asher St.

BM	7.22	50.58		43.36	Mon S.L. Tonopah St & N.L. Lieke
		0+0 = N.L. Tonopah			
-10			3.1	47.5	
W			3.2	47.4	
℄			3.4	47.2	
E			3.4	47.2	
+10			3.6	47.0	
		0+50			
-10			3.6	47.0	
E			3.7	46.9	
℄			3.6	47.0	
W			3.8	46.8	
+10			3.8	46.8	
		1+0			
-10			4.9	45.7	
W			4.8	45.8	
℄			4.6	46.0	
E			4.6	46.0	
+10			4.5	46.1	
		1+50			
-10			5.5	45.1	
E			5.6	45.0	
℄			5.2	45.4	
W			5.6	45.0	
+10			5.7	44.9	

Plotted 8-22-41 (W.)

Sketch Page 52 50.58

	2+0		
-10		6.7	43.9
W		6.8	43.8
℄		6.5	44.1
E		6.7	43.9
+10		6.6	44.0
	2+50		
-10		7.0	43.6
E		7.5	43.1
℄		7.2	43.4
W		7.5	43.1
+10		7.6	43.0
	3+0		
-10		7.5	43.1
W		7.4	43.2
℄		7.1	43.5
E		6.8	43.8
+10		6.7	43.9
	3+50		
-10		5.4	45.2
E		6.5	44.1
℄		6.5	44.1
W		6.7	43.9
+10		6.9	43.7

50x50

3+65

-10	6.2	44.4
W	5.5	45.1
4	5.2	45.4
E	4.8	45.8
+10	5.2	45.4

3+80

-10	5.1	45.5
E	5.5	45.1
4	5.6	45.0
W	5.6	45.0
+10	5.7	44.9

4+00.21 = SL Asbuilt

-10	4.4	46.2
W	4.0	46.6
4	3.6	47.0
E	4.0	46.6
+10	3.4	47.2

Cross Section Alley Block 13
First Addition to Ashers Clover Leaf Terr.
Asher St to Littlefield St. Sketch Page 52

50.58 St. Ford

0+00 = N.L. Asher St.

-10		1.8	48.8
E		2.1	48.5
℄		2.3	48.3
W		2.3	48.3
+10		2.2	48.4
	0+50		
-10		0.8	498
W		0.6	√0.0
℄		0.4	√0.2
E		0.7	49.9
+10		0.5	√0.1
TP	5.88 56.03	0.43	50.15
	0+75		
-10		4.5	51.5
E		4.5	51.5
℄		4.8	51.2
W		5.0	√1.0
+10		5.3	√0.7
	1+00		
-10		4.4	√1.6
W		3.8	√2.2
℄		3.8	√2.2
E		3.7	√2.3
+10		4.0	√2.0

Plotted 8-22-41

56.03

1+25		
-10	4.0	√2.0
E	3.9	√2.1
℄	4.1	√1.9
W	4.1	√1.9
+10	4.2	√1.8
1+50		
-10	5.5	√0.5
W	5.1	√0.9
℄	4.7	√1.3
E	4.2	√1.8
+10	4.0	√2.0
1+75		
-10	4.5	√1.5
E	4.8	√1.2
℄	5.3	√0.7
W	6.0	√0.0
+10	6.7	49.3
2+00		
-10	7.0	49.0
W	6.4	496
℄	6.0	√0.0
E	5.6	√0.4
+10	4.9	√1.1

Red. - 8.22.41 (W).
Checked - " "

56.03

2+50				
-10		4.9	51.1	
F		5.2	50.8	
℄		5.5	50.5	
W		5.6	50.4	
+10		5.9	50.1	
3+0				
-10		6.0	50.0	
W		5.6	50.4	
℄		5.5	50.5	
F		5.2	50.8	
+10		4.3	51.7	
3+50				
-10		4.5	51.5	
F		4.6	51.4	
℄		4.9	51.1	
W		5.1	50.9	
+10		5.2	50.8	
3+75.22 = S.L. Littlefield				
-10		5.5	50.5	
W		5.2	50.8	
℄		4.6	51.4	
F		4.5	51.5	
+10		4.1	51.9	
BM		9.32	46.71	N.E.B.P. Littlefield + Denver 46.71

℄ Levels Asher St.
W.L. First Add to Ashers Clover Leaf Terrace
to 250 West

Sept. 3-41
S.S.S.O.O

BM	2.52	52.55		50.03	on ℄ Hub Asher & Moreland Page 67
TP	0.54	42.98	10.11	42.44	
0+0 = W.L. First Add to Ashers Clover Leaf Terr.			3.9	39.1	
+50			5.7	37.3	
1+0			7.8	35.2	
+50			10.0	33.0	
2+0			11.8	31.2	
+50			13.4	29.6	

℄ Levels Asher St.

E.L. First Add to Ashers Clover Leaf Terr. to 250 East

BM	7.07	57.10		50.03	on ℄ Hub Asher & Moreland Page 67
0+0 = E.L. First Add. to Ashers Clover Leaf Terr.			5.0	52.1	
+50			5.0	52.1	
1+0			5.4	51.7	
+50			5.8	51.3	
2+0			5.3	51.8	
+50			4.7	52.4	

Red. 9/4/41
chk. " (W)
Plotted "

℄ = P.L. Line Levels Tonopah St.
E.L. First Add to Ashers Clover Leaf Terr.
to 250' East

BM	8.39	51.75		43.36	Mon S.L. Tonopah 34' W of W.L. Lieta P59
0+0 = E.L. First Add. to Ashers Clover Leaf			9.5		
TP	1.59	41.49	11.85	39.90	
+50			4.1	37.4	
1+0			8.4	33.1	
+50			11.9	29.6	
TP	3.09	32.88	11.70	29.79	
2+0			6.0	26.9	
+50			9.6	23.3	

℄ = P.L. Line Levels Tonopah St.
W.L. First Add to Ashers Clover Leaf Terr.
to 250 West

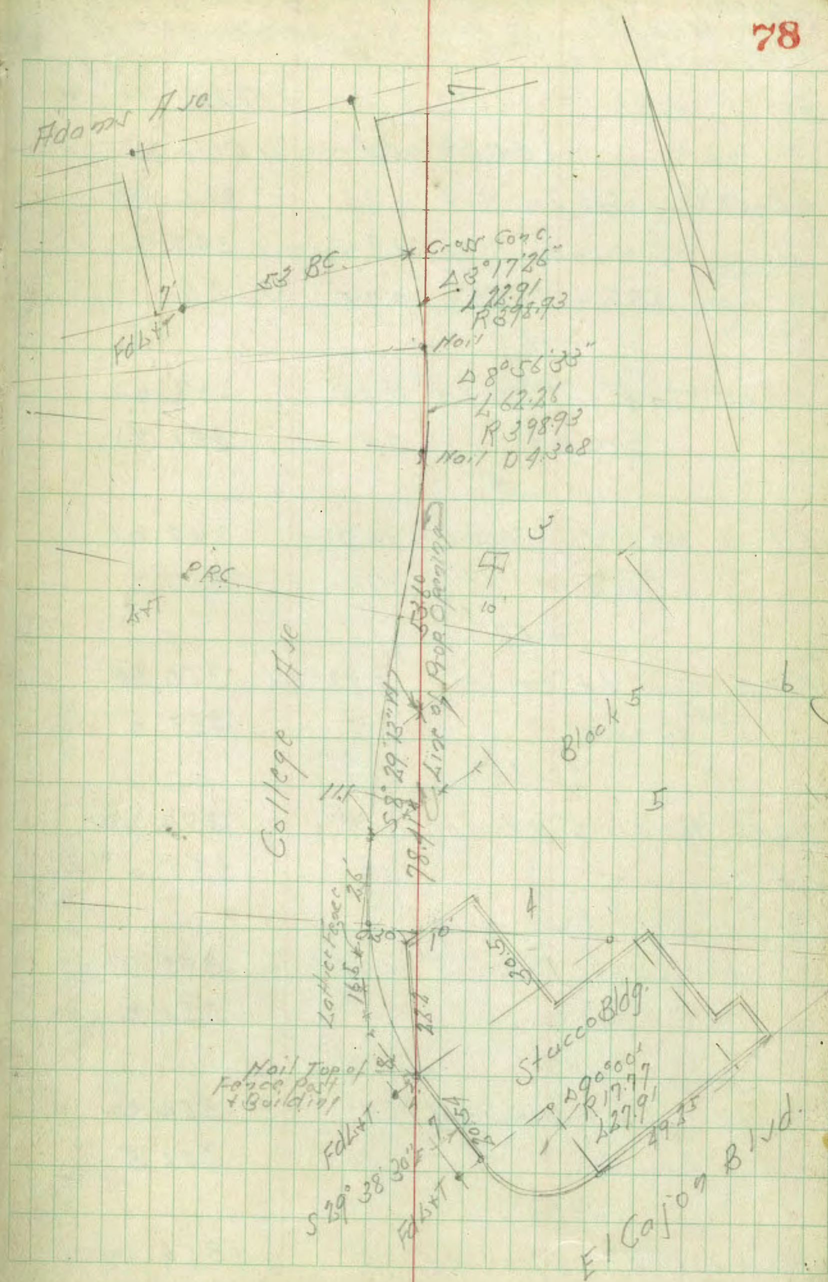
BM	3.38	46.74		43.36	Mon S.L. Tonopah 34' W of W.L. Lieta
0+0 = W.L. First Add to Ashers Clover Leaf			3.4	43.3	
+50			5.0	41.7	
1+0			5.8	40.9	
+50			6.5	40.2	
2+0			6.9	39.8	
+50			7.0	39.7	

Proposed Opening Lots 3-4 Block 5
El Retiro

Indexed
C.S.K.

March 23-42
Sisson
Northern
W Moore

2533 B



Location & Levels on Sewer Laterals on East Side Alley Block 38 City Hts. Between 38th & 39th St. From University to Polk

BM	4.48	351.72		347.24	N.W. B.P. Univ. & 39th
		0+05.5 =	5.5' N of N.L. Univ.		
EL+5 Top 4" Vitf. Sewer Lat.			5.85	345.87	
" " Ground			3.8	347.9	
TP	8.75	359.72	0.75	350.97	
		0+63			
EL+5 Top 4" Vitf Sewer Lat			10.65	349.07	
" " Ground			8.4	351.3	
		1+32			
F.L.+5 Top 4" Vit Sewer Lat			10.71	349.01	
" " Ground			7.0	352.7	
		1+59			
EL+5 = Top 4" Vit Sewer Lat.			8.88	350.84	
" " Ground			6.7	353.0	
		2+43.5			
EL+5 Top 4" Vitf Sewer Lat			7.52	352.20	
" " " Ground			4.5	355.2	
		3+31			
EL+5 Top 4" Vitf Sewer Lat			5.95	353.77	
" " Ground			3.7	356.0	
		3+82			
EL+5 Top 4" Vitf Sewer Lat			4.92	354.80	
" " Ground			3.2	356.5	
		4+73			
EL+5 Top 4" Vitf Sewer Lat			5.60	354.12	
" " Ground			2.5	357.2	

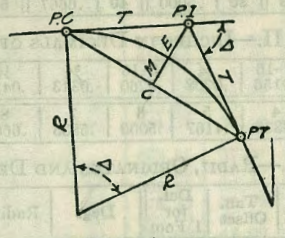
Profile = 2891 – C.B.K.

indexed E.S.K.

Oct. 13-43
Sisson Bogg
Bliss

		359.72			
	5+76				
EL+5 Top 4" Vitf Sewer Lateral			4.62	355.10	
" " Ground			1.3	358.4	
TP	1.57	351.70	9.59	350.13	
BM			4.44	347.26	N.W. B.P. Univ. & 39th 347.24

DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES



CURVE FORMULAS

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

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

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

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

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

EXPLANATION AND USE OF TABLES

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

Offsets.—Tangent offsets vary (approximately) directly with D and with square of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent-offset for 100 ft.=7.27 ft. Distance=158—Sta. P. C.=54.50, hence offset=7.27 (54.50÷100)²=2.16 ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus (54.50)²÷(2 x 688.26)=2.16 ft.

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

Externals.—May be found in similar manner to tangents. Thus E for curve above is 91.37. For from Table IV for 1° curve E=960.6 for 8° 20′=960.6÷8⅓=91.27 and from Table V correction=.10 or E=91.37 ft. Or suppose Δ=32° and E is measured and found to be 42 ft. What is D? From Table IV E=230.9 and÷42=5.5 or D=5° 30′.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½

For Single Track Embankment.

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

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