

1333



EMERSON

EMERSON



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CITY OF SAN DIEGO,  
CALIFORNIA.

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No. 385 of 30/100 AH



- 1 Bench Levels - El Cajon from Rolando to Isabella  
4 Olive St - Ramona to Vista  
11 Victoria St - Ramona to Vista  
19 Isabella St - " " "  
30 Vista St - Isabella to 200' West  
32 Helen St - Ramona to Vista  
40 Lois St - Ramona to El Cajon  
42 Dora St - Ramona to Vista  
50 Lois St - El Cajon to Vista  
52 Vista St - Lois to Alice  
69 Vista St - Helen to Lois  
76 Alice St - El Cajon to Vista

No. 1111



Sta	+	H.I.	-	Elev
Bench Line along El Cajon from				1
Rolando to Isabella.				
B.M. Nails in Pole #75699		on Catactia Drive		459.06
	2.97	461.53		
T.P.			-10.84	450.69
	6.69	457.38		
B.M. S.W. B.P. El Cajon + Rolando			-4.87	452.51
	+0.35	452.86		
B.M. SE. Nails in Pole 78343		El Cajon + Old Blvd.		
			-7.37	445.49
T.P.			-2.52	450.34
	+7.48	457.82		
B.M. S.W. Nails in Pole 78379		El Cajon + Alice	-2.19	455.63
T.P.			-1.27	456.45
	+6.20	462.65		
B.M. S.W. Nails in Pole #75354		El Cajon + Olive	-4.67	458.04
T.P.			-5.07	457.58
	+4.11	461.69		
B.M. S.W. Nails in Pole #71028		Victoria + El Cajon	-4.06	457.63
T.P.			-2.05	459.64
	+10.38	470.02		
B.M. S.W. Nails in Pole 78400		El Cajon + Lois	-4.70	465.32
T.P.			-0.58	469.74
	+10.25	479.69		
B.M. Nails in SW. Pole #74005		El Cajon + Helen	-6.50	473.19
T.P.			-0.21	479.48







	+	41	534.20	-	Elev.
B.M.	S.W. Nails	Vista + Helen		5.89	528.31
T.P.				-2.61	531.39
	+9.22		540.81		
T.P.				-9.83	530.98
	+	152	532.50		
B.M.	S.E. Pole	Dura 200' South of Vista		-7.97	524.53
T.P.				-10.20	522.30
	+2.27		524.57		
				-12.49	512.58
	+0.82		512.90		
				-12.27	500.63
	+0.22		500.85		
				-12.72	488.13
	+0.33		488.46		
				-12.63	475.83
	+1.30		477.13		
B.M.	S.W. Pole	Vista + Isabella		-2.58	474.55
T.P.				-0.89	476.24
	+12.39		488.63		
				-0.62	488.01
	+1.57		489.58		
B.M.	S.W.P. E/Cajon	+ Isabella		-9.33	480.25
	+5.66		485.91		Corr. of 480.17
B.M.	N.W Nails	Isabella + E/Cajon		-4.47	481.44
				Correct	481.36



4-8-29  
J.C. Bliss  
Drebert  
Ravner

X-section Olive Street - Ramona  
to Vista (La Mesa Hts) - 60' wide  
11' cbs  
10' fcs

H.I. 461.67

4

B.M. S.W. Nails in pole # 78384 El Cajon + Olive	458.04	W	8.9	452.8
+3.63 461.67			0+60	
B.M. S.W. B.P. El Cajon + Olive	-4.31 457.36	N	8.3	453.4
H.I. 461.67		cb	8.2	453.5
N.L. Ramona = 0+00		+4	9.1	452.6
W	9.8 451.9	14	8.3	453.4
cb	10.0 451.7	♀	8.9	453.8
+1	10.5 451.2	+3	9.5	452.2
1/4	9.9 451.8	+5	8.7	453.0
♀	10.4 451.3	14	8.8	453.9
+4	10.6 451.1	cb	8.9	452.8
+5	10.2 451.5	E	8.9	452.8
1/4	10.2 451.5		0+85	
cb	10.0 451.7	E	7.9	453.8
E	9.8 451.9	cb	8.1	453.6
0+35		14	8.2	453.5
E	9.6 452.1	+5	8.1	453.6
cb	9.6 452.1	+6	8.9	453.8
1/4	9.5 452.2	♀	8.1	453.6
+5	9.5 452.2	14	7.7	454.0
+6	10.0 451.7	+7	8.4	453.3
♀	9.6 452.1	cb	7.9	453.8
1/4	9.0 452.7	W	8.0	453.7
+7	9.7 452.0		0+89	
cb	9.1 452.6	♀ 2' Concrete Walk 8' in street from W.L.	7.76	453.91

Plotted - 5-7-29 G.M.J.



H.I. 46167

1+10

w	7.5	454 2
cb	7.6	454.1
+4	8.1	453 6
1/4	7.4	454 3
♀	7.5	454 2
+4	8.4	453 3
+6	7.5	454 2
1/4	7.5	454 2
cb	7.6	454 1
E	7.4	454 3
	1+35	
E	7.1	454 6
cb	7.2	454 5
1/4	7.2	454 5
+5	7.2	454 5
+6	7.9	453 8
♀	7.2	454 5
1/4	7.1	454 6
+6	7.7	454 0
cb	7.2	454 5
w	7.3	454 4
	1+60	
w	7.2	454 5
cb	7.1	454 6
+5	7.5	454 2

H.I. 46167

5

1/4	6.9	455 8
+5	6.7	455 0
♀	6.7	455 0
+4	7.2	454 5
+5	6.7	455 0
1/4	6.3	455 4
cb	6.4	455 3
E	6.6	455 1
	1+85	
E	6.3	455 4
cb	6.2	455 5
1/4	6.2	455 5
+5	6.4	455 3
+6	7.0	454 7
♀	6.4	455 3
1/4	6.6	455 1
+5	7.1	454 6
cb	6.3	455 4
w	6.0	455 7
	2+10	
w	5.9	455 8
cb	6.1	455 6
+5	6.8	455 9
1/4	6.2	455 5
♀	6.3	455 4



H.I. 46167

+3	6.7	455.0
1/4	6.3	455.4
cb	6.0	455.7
E	6.1	456.6
	2/35	
E	5.7	456.0
cb	5.8	455.9
1/4	5.9	455.8
+6	6.4	455.3
♀	6.0	455.7
1/4	5.9	455.8
+5	6.5	455.2
+6	6.2	455.5
cb	6.3	455.4
W	6.3	455.4
	2+6.0	
W	5.8	455.9
cb	5.8	455.9
+4	6.3	455.4
1/4	5.6	455.1
♀	5.5	456.2
+5	6.0	455.7
+6	5.6	456.1
1/4	5.4	456.3
cb	5.5	456.2

H.I. 46167

6

E	5.1	456.6
	2+85	
E	4.0	457.7
cb	4.9	456.8
1/4	5.0	456.7
+2	5.1	456.0
♀	5.0	456.7
1/4	5.3	456.4
+7	5.8	456.9
cb	5.4	456.3
W	5.3	456.4
	3410 = S.L. El Cajon - Pared	
W	4.4	457.3
Sp cb	4.66	457.01
E	5.27	456.40
1/4	5.03	456.64
♀	4.84	456.83
1/4	4.87	456.80
E	5.23	456.44
Sp cb	4.60	457.07
E	4.1	457.6
	N.L. El Cajon - 0100	
E	4.6	457.1
Sp cb - Drive up - 2h + Gitter flush	5.1V	456.55
1/4	4.99	456.68



H.I. 461.67

¢	4.98	456.69
1/4	5.13	456.54
G	5.78	456.19
Traco	4.76	456.91
W	4.5	457.2
	0+25	
W	4.9	456.8
cb	5.0	456.7
+5	5.6	456.1
1/4	5.3	456.4
¢	4.7	457.0
1/4	5.2	456.5
cb	5.1	456.6
E	4.8	456.9
	0+28	
¢ Concrete step of service station 1' back L.L. 4" x 4"		457.38
	0+50	
E	5.3	456.4
cb	5.4	456.3
1/4	5.9	455.8
¢	4.9	456.8
1/4	5.4	456.3
+3	5.9	455.8
+5	5.2	456.0
cb	5.1	456.6

H.I. 461.67

W	4.7	457.0
	0+75	
W	4.7	457.0
cb	5.5	456.2
+7	5.7	456.0
+9	6.2	455.5
1/4	5.9	455.8
¢	5.3	456.4
1/4	6.2	455.5
cb	5.8	455.9
E	5.9	455.8
	1+00	
E	6.1	455.6
cb	6.0	455.7
1/4	6.3	455.4
¢	5.6	456.1
1/4	6.4	455.3
cb	6.0	455.7
W	6.0	455.7
	1+25	
W	6.5	455.2
cb	6.4	455.3
1/4	6.4	455.3
¢	5.9	455.8
1/4	6.5	455.2



H.I. 461.67

cb	64	455.3
E	64	455.3
	1750	
E	71	454.6
cb	68	454.9
1/4	72	454.5
♀	67	455.0
1/4	70	454.7
cb	67	455.7
w	66	455.1
T.P.	74	-682 454.85

+ 278

H.I. 457.63

	1725	
w	27	454.9
cb	27	454.9
1/4	32	454.4
♀	2.8	454.8
1/4	35	454.1
cb	30	454.6
E	33	454.3
	2100	
E	37	453.9
cb	32	454.4
1/4	39	453.7

H 457.63

8

♀	31	454.5
1/4	37	453.9
cb	33	454.3
w	31	454.5
	2125	
w	32	454.4
cb	33	454.3
1/4	37	453.9
♀	33	454.3
1/4	42	453.4
cb	34	454.2
E	37	453.9
	2150	
E	39	453.7
cb	38	453.8
1/4	43	453.3
♀	34	454.2
1/4	40	453.6
cb	35	454.1
w	36	454.0
	2175	
w	40	453.6
cb	40	453.6
1/4	44	453.2
♀	37	453.9



H.I. 457.63

1/4	4.4	453.2
cb	4.0	453.6
E	4.4	453.2
S+10 = S.L. Santiago		
E	4.7	452.9
cb	4.6	453.0
1/4	5.2	452.4
♀	4.4	453.2
1/4	5.2	452.4
cb	4.6	453.0
W	4.6	453.0

N.L. Santiago = 0+00

N	6.0	451.6
cb	6.0	451.6
1/4	6.5	451.1
♀	5.6	452.0
1/4	6.3	451.3
cb	6.0	451.6
E	6.2	451.4

0+25

E	6.6	451.0
cb	6.4	451.2
1/4	6.8	450.8
♀	6.4	451.2
1/4	6.7	450.7

H.I. 457.63

9

cb	6.7	450.9
W	6.6	451.0
0+50		
W	7.3	450.3
cb	7.5	450.1
1/4	8.0	449.6
♀	7.4	450.2
1/4	7.8	449.8
cb	7.5	450.1
F	7.5	450.1

0+75

E	8.5	449.1
cb	8.7	448.9
1/4	9.0	448.6
♀	8.3	449.3
1/4	9.0	448.6
cb	8.5	449.1
W	8.3	449.3

1+00

W	9.0	448.6
cb	9.2	448.4
1/4	9.6	448.0
♀	9.1	448.5
1/4	9.7	448.9
cb	9.7	448.9



H.I. 457.63

E	9.7	447.9
	1+25	
E	10.7	446.9
cb	10.6	447.0
1/4	10.4	447.2
♀	9.7	447.9
1/4	10.1	447.5
cb	9.6	448.0
w	9.6	448.0
	1+50	
w	10.3	447.3
cb	10.4	447.2
1/4	10.9	446.7
♀	10.4	447.2
1/4	10.9	446.7
cb	11.0	446.6
E	11.0	446.6
	1+75	
E	12.0	445.6
cb	11.7	445.9
1/4	11.6	446.0
♀	11.1	446.5
1/4	11.6	446.0
cb	10.9	446.7
w	10.7	446.9

H.I. 457.63

10

	2+00	
w	10.0	447.6
cb	10.6	447.0
+9	11.2	446.4
1/4	12.5	445.1
♀	11.9	445.7
1/4	12.5	445.1
cb	12.9	444.7
E	12.9	444.7
	2+25	
E	13.5	444.1
cb	13.5	444.1
1/4	13.1	444.5
♀	12.4	445.2
1/4	13.1	444.5
1/4	11.9	445.7
cb	11.5	445.1
w	11.0	446.6
	2+50	
w	11.3	446.3
cb	11.4	446.2
+8	11.6	446.0
1/4	13.4	444.2
♀	12.9	444.7
1/4	13.2	444.4
cb	14.2	443.4



H.I. 457.63

E	13.2	444.4
	2+75	
E	13.9	443.7
cb	14.2	443.4
1/4	13.7	443.9
♀	13.6	443.0
1/4	14.2	443.4
+1	13.3	444.3
cb	12.8	444.8
W	12.4	444.2
	3+10 = S.L. Vista	
W	14.4	443.2
cb	14.9	442.7
+5	15.6	442.0
1/4	13.3	442.3
♀	14.6	443.0
1/4	14.2	443.4
cb	14.4	443.2
E	14.4	443.2

B.M. S.W. Walks - Vista + Olive -1200 445.63  
 Correct 445.67  
 Error 0.04

4-7-29  
 J.C. Bliss  
 Dreacht  
 Ravney

X-section Victoria St. (20000 Hrs)

Ramona to Vista

60' wide  
 10' cbs  
 10' 1/4 S

B.M. S.W. Walks in File # 71028 El Cajon + Victoria	457.63
+2.57 460.20	
B.M. S.W. B.P. El Cajon + Victoria	-3.50 456.70
H.I. 460.20	
N.L. Ramona = 0 + 00	
E	48 455.4
cb	54 454.8
+3	69 453.3
1/4	61 454.1
♀	57 454.5
1/4	57 454.5
cb	63 453.9
W	64 453.8
	0 + 25
W	70 453.2
cb	70 453.2
1/4	61 454.1
♀	58 454.4
1/4	65 453.7
+7	69 453.3
cb	51 455.1
E	57 455.0
	0 + 50
E	50 455.2
cb	55 454.7

Plotted 5-8-29 - G.M.J.



H.I. 460.20.

+2	6.8	453.4
1/4	6.4	453.8
♀	5.8	454.4
1/4	6.0	454.2
cb	7.2	453.0
w	7.2	453.0
	6+7.5	
w	6.5	453.7
cb	7.0	453.2
1/4	5.9	454.3
♀	5.7	454.5
1/4	6.6	453.6
+7	6.8	453.4
cb	5.5	454.7
E	5.4	454.8
	4+0	
E	5.7	454.5
cb	5.8	454.4
+2	6.9	453.3
1/4	6.3	453.9
♀	5.6	454.6
1/4	5.7	454.5
cb	7.0	453.2
w	7.1	453.1

H.I. 460.20

1+2.5

12

w	6.4	453.8
cb	6.9	453.3
1/4	5.7	454.5
♀	5.7	454.5
1/4	6.4	453.8
+7	6.6	453.6
+8	5.9	454.3
cb	6.1	454.1
E	6.1	454.1
	1+5.0	
E	6.0	454.2
cb	5.9	454.3
+3	6.7	453.5
1/4	6.4	453.8
♀	5.7	454.5
1/4	5.5	454.7
cb	6.7	453.5
w	5.5	454.7
	1+7.0 = N. Alley - cb in on west side - E.C. Gage to N. Alley	
w - gutter	5.5	454.7
w - Tprob	5.28	454.92
Tprob	5.42	454.78
G	6.2	454.0
1/4	5.4	454.8
♀	5.5	454.7



H.I. 460.20

1/4	65	453.7
cb	62	454.0
E	62	454.0
	2+00	
E	58	454.4
cb	57	454.5
1/4	62	454.0
¢	55	454.7
1/4	54	454.8
G	61	454.1
Trcb	514	455.06
w	54	454.8
	2+26	
w	50	455.2
Trcb-Driveway	563	454.57
G	58	454.4
1/4	53	454.9
¢	53	454.9
1/4	62	454.0
cb	56	454.6
E	57	454.5
	2+50	
E	53	454.9
cb	53	454.9
+1	59	454.3

H.I. 460.20

13

1/4	54	454.8
¢	50	455.2
1/4	50	455.2
G	53	454.9
Trcb	464	455.56
w	48	455.4
	2+75	
w	43	455.9
Trcb	437	455.83
G	51	455.1
1/4	47	455.5
¢	47	455.5
1/4	53	454.9
+5	58	454.4
cb	50	455.2
E	46	455.6
Paving at SL El Cajon angle from Sta 3+10 on W L to 3+05 on E L.		
E	3.8	456.4
Trcb	382	456.38
G	523	454.97
1/4	480	455.40
¢	453	455.67
1/4	452	455.68
G	463	455.57



H.I. 460.20

Tpcb 395 456 25

W 37 456 5'

N.L. El Cajon = 0+00

Paving is angled from 0+00 on W.L. 40

0+05 on E.L.

W 31 457.1

Tpcb 321 456.99

G 375 456 45

1/4 353 456 67

♀ 356 456 64

1/4 386 456 34

G 428 455 92

Tpcb 308 457 12.1

E 30 457 2

0+25

E 28 457.4

cb 31 457.1

1/4 37 456.5

♀ 31 457.1

1/4 31 457.1

cb 40 456.2

W 26 457.6

0+50

W 25 457.7

♀ 37 456.5

H.I. 460.20

14

cb 36 456.6

1/4 30 457.2

♀ 29 457.3

1/4 33 456 9

cb 29 457.3

E 28 457.4

0+75

E 23 457.9

cb 24 457.8

1/4 29 457.3

♀ 27 457.5

1/4 26 457.6

cb 34 456.8

+5 35 456.7

W 17 458.5

T.P. -199 458.21

+9.52

H.I. 467.93

+00

W 91 458.6

+5 10.4 457.3

cb 10.5 457.2

1/4 98 457.9

♀ 9.7 458.0

1/4 9.9 457.8



H.I. 467.73

cb	76	458.1
E	78	457.9
	1+25	
E	92	458.5
cb	89	458.8
1/4	76	458.1
♀	91	458.6
1/4	92	458.5
cb	99	457.8
+5	98	457.9
W	86	459.1
	1+50	
W	78	459.9
+8	91	458.6
cb	93	458.4
1/4	84	459.3
♀	84	459.3
1/4	89	458.8
cb	83	459.4
E	86	459.1
	1+75	
E	81	459.6
cb	77	460.0
1/4	81	459.6
♀	71	460.6

H.I. 467.73

15

1/4	77	460.0
cb	86	459.1
W	78	459.9
	2+00	
W	77	460.0
cb	78	459.9
1/4	69	460.8
♀	67	461.0
1/4	74	460.3
cb	69	460.8
E	71	460.6
	2+25	
E	61	461.6
cb	59	461.8
1/4	61	461.6
♀	61	461.6
1/4	63	461.4
cb	74	460.3
W	74	460.3
	2+50	
W	69	460.8
cb	68	460.9
1/4	57	462.0
E	55	462.2
1/4	59	461.8



H.I. 467.75

cb	54	462.3
E	54	462.3
	2+75	
E	47	463.0
cb	44	463.3
1/4	53	462.4
¢	49	462.8
1/4	52	462.5
cb	6.1	461.6
W	58	461.9

3+10 = S.L. Santiago

w	49	462.8
cb	5.6	462.1
1/4	44	463.3
¢	40	463.7
1/4	47	463.0
cb	3.7	464.0
E	3.7	464.0

NL. Santiago = +00

E	2.3	465.4
cb	28	464.9
1/4	36	464.1
¢	34	464.3
1/4	40	463.7
ob	4.7	463.0

H.I. 467.75

16

W	49	462.8
	0+25	
W	5.1	462.6
cb	5.5	462.2
1/4	51	462.6
1/4	44	463.3
¢	35	464.2
1/4	40	463.7
cb	34	464.3
E	31	464.6

0+50

E	34	464.3
cb	3.8	463.9
1/4	47	463.0
¢	40	463.7
1/4	48	462.9
+3	59	461.8
cb	6.1	461.6
W	56	462.1

0+75

W	6.0	461.7
cb	6.8	460.9
1/4	56	462.1
+2	4.9	462.8
¢	45	463.2



H.I. 467.73

1/4	5.0	462.7
cb	4.4	463.3
E	3.6	464.1
1400		
E	4.3	463.4
cb	5.1	462.6
1/4	5.9	461.8
♀	5.2	462.5
1/4	5.6	462.1
45	6.9	460.8
cb	7.0	460.7
W	7.0	460.7
1425		
W	8.0	459.7
cb	7.9	459.8
1/4	7.3	460.4
42	6.7	461.0
♀	6.1	461.6
1/4	6.5	461.2
cb	6.2	461.5
E	5.3	462.4
1450		
E	6.4	461.3
cb	7.0	460.7
1/4	7.4	460.3

H.I. 467.73

17

♀	7.1	460.6
1/4	7.7	460.0
43	8.4	459.3
cb	8.8	458.9
W	8.9	458.8
1475		
W	9.4	458.3
cb	9.1	458.6
1/4	8.7	459.0
♀	7.7	460.0
1/4	8.1	459.6
cb	7.7	460.0
E	6.6	461.1
-8.24 459.49		
7394		
2+00		
H.I. 463.43		
E	3.0	460.4
cb	4.1	459.3
1/4	4.1	459.3
♀	4.2	459.2
1/4	4.7	458.7
cb	5.5	457.9
W	6.4	457.0
2+25		
W	7.2	456.2



H.I. 463.43

cb	6.6	456.8
1/4	5.5	457.9
♀	4.3	459.1
1/4	4.5	458.9
cb	4.2	459.2
E	3.6	459.8
2+50		
E	4.1	459.3
cb	4.3	459.1
1/4	4.4	459.0
♀	4.7	458.7
+5	4.8	458.6
1/4	6.6	456.8
cb	7.5	455.9
W	7.7	455.7
2+75		
W	8.1	455.3
cb	7.8	455.6
1/4	7.0	456.4
+5	4.9	458.5
♀	4.9	458.5
1/4	4.6	458.8
cb	4.4	459.0
E	4.2	459.2

H.I. 463.43

3+60

18

E	3.8	459.6
+5	5.3	458.1
cb	5.3	458.1
1/4	5.0	458.4
♀	5.3	458.1
+5	5.6	457.8
1/4	7.2	456.2
cb	8.2	455.2
W	8.5	454.9
3+20 = S.L. Visto		
W	8.6	454.8
cb	7.9	455.5
+5	7.3	456.1
1/4	5.6	457.8
♀	5.4	458.0
1/4	5.2	458.2
cb	5.3	458.1
E	5.2	458.2

B.M. S.W. Nails Visto + Victoria

-5.00 458.43

Correct 458.43

Error 0.00



4-9-29

X-section Isabella Street.

J. R. Bliss  
Dreber  
Rauver

Ramona to Vista. 60' Wide

10' cb  
10' 1/4

H.I. 486.04

19

B.M. S.W. B.P. El Cajon &amp; Isabella

480.17

Out 10

14.5

471.5

+5.81

W

12.6

173.4

H.I. 486.04

cb

11.3

474.7

N.L. Ramona - 0+00

1/4

9.9

476.1

W

9.5

476.5

φ

8.5

477.5

cb

8.7

477.3

1/4

9.0

477.0

1/4

7.6

478.4

cb

9.7

476.3

φ

7.1

478.9

+1

8.6

477.4

1/4

7.2

478.8

E

8.0

478.0

cb

7.2

478.8

b+7.5

+7

6.1

479.9

E

8.4

477.6

E

5.9

480.1

+9

7.1

476.9

+7.5

cb

10.0

476.0

E

6.7

479.3

1/4

9.7

476.3

+7

7.1

478.9

φ

9.6

476.4

cb

7.4

478.6

1/4

10.1

475.9

1/4

8.1

477.9

cb

12.2

173.3

φ

7.8

478.2

W

13.6

172.4

1/4

8.5

477.5

Out 10

15.8

470.2

cb

9.7

476.3

+0.0

W

10.1

475.9

Out 10

16.0

470.0

+11

W

13.5

472.5

2' Concrete walk 10' in street from W.L.

9.50

476.5

cb

12.6

473.4

1/4

10.3

475.7

φ

10.1

475.9

Plotted 5-9-29 - G.M. Jain



1/4	10.1	475.9
cb	10.7	475.3
+1	9.2	476.8
E	8.8	477.2
	17.5	
E	8.9	477.1
+8	9.4	476.6
cb	10.9	475.1
1/4	10.4	475.6
¢	10.5	475.5
1/4	11.0	475.0
cb	13.1	472.9
w	17.1	477.9
Out 10	16.5	469.5
	17.35	
¢ 3' Concrete Walk 10' in st. from W.L.	17.95	473.09
	17.50	
Out 10	14.8	471.2
w	13.8	472.2
cb	13.5	472.5
+5	12.5	473.5
1/4	11.0	475.0
¢	10.8	475.2
1/4	10.9	475.1
cb	11.3	474.7

+1	10.3	475.7
E	9.8	476.2
	17.5	
E	11.1	474.9
cb	11.5	474.5
1/4	11.2	474.8
¢	11.0	475.0
1/4	11.3	474.7
cb	13.7	473.3
w	14.9	471.1
Out 10	14.9	471.1
	17.90	
Out 10	14.1	471.9
w	14.1	471.9
cb	13.6	472.4
1/4 = Flowline 8" Corr. Iron Culvert	13.1	472.9
+2	10.9	475.1
¢	11.0	475.0
1/4	11.1	474.9
cb	11.3	474.7
+2 = Flowline 8" Corr. Iron Culvert	12.6	473.4
¢	11.5	474.5
	27.25	
E	10.8	475.2
cb	10.6	475.4



H.I. 486.04

1/4	10.1	475.9
Φ	10.0	476.0
1/4	10.2	475.8
cb	10.8	475.2
W	10.9	475.1
	2+50	
W	8.7	477.3
cb	8.7	477.3
1/4	9.1	476.9
Φ	8.7	477.3
1/4	8.8	477.2
cb	9.4	476.6
E	9.0	477.0
	2+75	
E	7.1	478.9
cb	7.9	478.1
1/4	7.7	478.3
Φ	7.5	478.5
1/4	8.0	478.0
+8	8.0	478.0
cb	7.3	478.7
W	7.7	478.8
	3+00	
W	6.5	479.5
cb	6.8	479.2

H.I. 486.04

21

7.5	478.7	
1/4	7.0	479.0
Φ	6.8	479.2
1/4	6.5	479.5
cb	7.1	478.9
E	6.4	479.6
	3+10 = 51 El Cajon	
	at South side	
	Section on El Cajon Paving from Sta 3+12	
	on West Line to Sta 3+24 on East Line	
E	4.8	481.2
Top cb	5.10	480.94
G	5.82	480.22
1/4	5.74	480.30
Q	5.90	480.14
1/4	6.17	479.87
G	6.64	479.40
Top cb	5.94	480.10
W	6.6	479.4
	Section on El Cajon Paving on North	
	side from 0+00 on West Line to 14' South of	
	0+00 on E.L.	
W	6.1	479.9
Top cb	5.66	480.38
G	6.28	479.76
1/4	5.82	480.22



H. 486.04

¢	558	480.46
1/4	544	480.60
G	546	480.58
Topob	472	481.32
E	43	481.7
0400		
E	42	481.8
cb	50	481.0
1/4	5.1	480.9
¢	53	480.7
1/4	5.8	480.2
G	628	479.76
Topob	566	480.38
W	61	479.9
0425		
W	52	480.8
cb	51	480.9
+1	44	481.6
1/4	45	481.5
¢	42	481.8
1/4	38	482.2
cb	43	481.7
+3	35	482.5
E	32	482.8

H. 486.04

22

0450

E	20	484.0
cb	21	483.9
+1	2.7	483.3
1/4	2.4	483.6
¢	31	482.9
1/4	39	482.1
cb	31	482.9
+1	45	481.5
W	46	481.4
0458		
¢ 3' Concrete Walk at W.L.	494	481.10
Note - from 0400 to 1440 on West side there is a row of ornamental trees, 7' in the st. from W.L.		
0475		
W	29	483.1
+9	21	483.3
cb	22	483.8
1/4	1.7	484.3
¢	16	484.4
1/4	12	484.8
+8	1.9	484.1
cb	1.0	485.0
E	06	485.4
T.P.		-0.63 485.41
+636	491.71	



#1. 491.77

1+00

E	5.3	486.5
cb	5.5	486.3
+v	6.4	485.4
1/4	5.9	485.9
♀	6.4	485.4
1/4	6.4	485.4
cb	6.8	485.0
+1	7.3	484.5
W	7.3	484.5

1+25

W	6.8	485.8
cb	6.0	485.8
+v	5.5	486.3
1/4	5.6	486.2
♀	5.6	486.2
1/4	4.9	486.9
+8	5.5	486.3
cb	4.7	487.1
E	4.3	487.5

1+50

E	3.6	488.2
cb	4.0	487.8
+v	4.7	487.1
1/4	4.2	487.6
♀	4.7	487.1
1/4	4.6	487.2

#1. 491.77

23

cb	4.8	487.0
W	5.2	486.6

1+75

W	3.9	487.9
cb	3.9	487.9
1/4	3.7	488.1
♀	4.0	487.8
1/4	3.4	488.4
+7	3.8	488.0
+9	3.1	488.7
cb	3.0	488.8
E	2.6	489.2

2+00

E	2.1	489.7
cb	2.6	489.2
+4	3.4	488.4
1/4	3.3	488.5
♀	3.7	488.1
+v	3.7	488.1
+4	3.1	488.7

1/4	3.1	488.7
cb	3.0	488.8
W	2.7	489.1

2+25

W	2.3	489.5
cb	2.6	489.2



H.I. 491.77

1/4	34	488.4
47	36	488.2
48	40	487.8
♀	39	487.9
1/4	34	488.4
cb	34	488.4
F	30	488.8
	2450	
E	4.3	487.5
cb	4.3	487.5
1/4	38	488.0
♀	40	487.8
1/4	38	488.3
cb	26	489.2
w	1.8	490.0
	2475	
w	21	489.7
cb	25	489.3
1/4	33	488.5
45	37	488.1
46	46	487.2
♀	45	487.3
1/4	45	487.3
cb	49	486.9
E	53	486.5

H.I. 491.77

3410 = SL. Santiago

24

60' wide  
1.05  
1/1745

E	63	485.5
cb	57	486.1
1/4	54	486.4
♀	52	486.6
42	52	486.6
45	35	488.3
1/4	35	488.3
cb	24	489.4
w	21	489.7
	5 cb Santiago	
w	18	490.0
cb	24	489.4
1/4	36	488.2
45	40	487.8
47	58	486.0
♀	57	486.1
1/4	57	486.1
cb	60	485.8
E	66	485.2
	5 1/4 Santiago	
E	71	484.7
cb	66	485.2
1/4	60	485.8
♀	56	486.2
47	52	486.6



H.I. 491.77

1/4	39	487.9
cb	28	489.0
W	1.9	489.9
5 1/4 + 4		
w	28	489.0
cb	4.0	487.8
1/4	5.0	486.8
♀	5.6	486.2
1/4	6.2	485.6
cb	6.8	485.0
E	7.2	484.6

S cb. Santiago +7 and 5' West of

♀ Isabella = South end 12" Cor. Iron Culvert

Shot on Flank line 6.51 485.26

N 1/4 Santiago +8 &amp; 5' West of ♀

Isabella = North end culvert - Flank line 7.87

♀ Santiago

E	7.4	484.4
cb	7.1	484.7
1/4	6.8	485.0
♀	5.7	486.1
1/4	4.8	487.0
cb	3.8	488.0
W	2.7	489.1

H.I. 491.77

25

N 1/4 +3

W	3.6	488.2
cb	4.7	487.1
1/4	5.8	486.0
♀	6.8	485.0
1/4	7.2	484.6
cb	8.0	483.8
E	8.6	483.2

N 1/4 +5

E	8.8	483.0
cb	8.4	483.4
1/4	7.4	484.4
♀	7.6	484.2
+4	7.7	484.1
+5	5.9	485.9
1/4	5.4	486.4
cb	4.5	487.3
W	3.4	488.4

N 1/4 Santiago = 0.00

W	3.8	488.0
cb	5.0	486.8
1/4	6.5	486.3
+5	6.9	484.9
+7	8.7	483.1
♀	8.6	483.2
1/4	8.2	483.6



H.I. 491.77

cb	9.2	482.6
E	9.4	482.4
	0.25	
E	11.2	480.6
cb	10.7	481.1
1/4	9.9	481.9
♀	10.7	481.1
+3	10.4	481.4
+5	8.8	483.0
1/4	8.8	483.0
cb	7.5	484.3
w	6.9	484.9
	0.50	
w	8.7	483.1
cb	9.6	482.2
1/4	10.4	481.4
+5	10.6	481.2
+7	12.5	479.3
♀	12.5	479.3
1/4	11.5	480.3
cb	12.1	479.7
E	12.6	479.2
	0.75	
E	14.0	477.8
cb	13.5	478.3

H.I. 491.77

26

1/4	13.1	478.7
♀	13.5	478.3
+3	13.5	478.3
+5	12.3	479.5
1/4	12.0	479.8
cb	11.1	480.7
w	10.2	481.6
	14.0	
w	11.1	480.7
cb	12.3	479.5
1/4	13.5	478.3
F.P.		-1316 478.61
	+0.83	
	H.I. 479.44	
	14.0	
+5	18	477.6
+7	2.8	476.6
♀	2.7	476.7
1/4	2.3	477.1
cb	3.0	476.4
E	3.6	475.8
	14.25	
E	4.9	474.5
cb	4.3	475.1
1/4	3.5	475.9



A1 479.44

£	36	475.8
+3	3.5	475.9
+5	2.5	476.9
1/4	2.2	477.2
cb	1.4	478.0
w	0.6	478.8
	1+50	
w	1.2	478.2
cb	2.2	477.2
1/4	4.0	475.4
£	4.4	475.0
1/4	4.4	475.0
cb	5.2	474.2
E	5.7	473.7
	1+75 - w	
E	7.3	472.1
cb	6.2	473.2
1/4	5.7	473.7
£	5.6	473.8
+3	5.5	473.9
+5	4.6	474.8
1/4	4.2	475.2
cb	2.8	476.6
w	2.2	477.2

H1 479.44

27

2+00

w	3.2	476.2
cb	4.3	475.1
1/4	5.8	473.6
£	6.6	472.8
1/4	6.6	472.8
cb	7.8	471.6
E	8.5	470.9
out 10	8.9	470.5
	2+25	
out 10	10.1	469.3
E	9.3	470.1
cb	8.5	470.9
+4	7.7	471.7
1/4	7.3	472.1
£	7.5	471.9
+4	7.7	471.7
+5	6.6	472.8
1/4	5.5	473.9
cb	5.3	474.1
w	4.5	474.9
	2+50	
w	5.1	474.3
cb	6.0	473.4
1/4	7.0	472.4
+5	7.4	472.0



H.J. 479.44

46	82	471.2
♀	82	471.2
1/4	79	471.5
+5	84	471.0
cb	91	470.3
E	99	469.5
out 10	10.6	468.8
	2+75	
out 10	118	467.6
E	10.7	468.7
cb	9.9	469.5
1/4	8.6	470.8
♀	8.8	470.6
+4	8.9	470.5
+5	7.8	471.6
4/4	7.4	472.0
cb	6.2	473.2
W	5.5	473.9
	3+00	
W	5.8	473.6
cb	6.8	472.6
1/4	7.8	471.6
+5	8.1	471.3
+6	7.2	470.2
♀	9.3	470.1

H.J. 479.44

28

1/4	90	470.4
cb	10.1	469.3
E	10.8	468.6
out 10	11.6	467.8
	3+20 = SL Vista = <sup>60' wide</sup> 10' cbs <sup>10' 1/45</sup>	
out 10	11.5	467.9
E	10.9	468.5
cb	10.4	469.0
1/4	9.4	470.0
♀	9.7	469.7
+4	9.6	469.8
+5	9.1	470.3
1/4	8.6	470.8
cb	7.5	471.9
W	6.5	472.9
	5 cb + 5 on Vista + 4' West of ♀ on Isabella	
	<sup>5' north West end</sup> 18" Iron Culvert = Flowline	11.7 467.7
	Nab Line Vista + 5' East of E.L. Isabella	
	= N.E. end culvert - Flowline	13.8 465.6
	5 cb Vista + 6	
W	7.1	472.3
cb	8.2	471.2
+8	9.2	470.2
1/4	10.2	469.2
♀	9.9	469.5



H.I. 479.44

1/4	9.8	469.6
cb	10.7	468.7
E	11.1	468.3
Out 10	11.6	467.8
S cb Vista 48		
Out 10	11.6	467.8
E	11.1	468.3
cb	10.7	468.7
1/4	9.8	469.6
♀	9.9	469.5
1/4	9.6	469.8
cb	9.3	470.1
W	7.9	471.5
♀ Vista		
W	7.7	471.7
cb	8.8	470.6
1/4	9.6	469.8
♀	10.2	469.2
1/4	10.3	469.1
cb	10.9	468.5
E	11.4	468.0
Out 10	12.0	467.4
N cb Vista		
Out 10	12.6	466.8
E	11.9	467.5

H.I. 479.44

29

cb	11.4	468.0
1/4	11.2	468.2
♀	11.1	468.3
1/4	10.4	469.0
cb	9.3	470.1
W	8.6	470.8
N.L. Vista		
W	9.2	470.2
cb	9.9	469.5
1/4	10.5	468.9
♀	11.2	468.2
1/4	11.0	468.4
cb	12.1	467.3
E	12.5	466.9
Out 10	13.2	466.2



4-9-29  
J.C. 8/135  
Dreber  
Pouner

X-section Vista St - Isabella to 200'.  
West- 60' wide  
10' cbs  
10' 1/4s

HI 485.05

30

HI 479.44

W.L. Isabella + 100

N	9.2	470.2	1/4	2.8	477.3
cb	8.5	470.8	1/4	7.4	477.7
1/4	7.9	471.5	1/4	7.4	477.7
♀	7.7	471.7	1/3	7.2	477.9
1/4	7.7	471.7	1/5	6.2	478.9
1/4	6.9	472.5	cb	5.9	479.2
cb	6.4	473.0	5	5.3	479.8
5	6.4	473.0	5	0.25	

G.M.I.

S.M.S.W. Nails in Pole Isabella + Vista

494 474.50  
corner 474.55  
HI 485

+ 10.50

Pb + Ted - 5-11-29

5	8.2	476.9	1/4	5.0	480.1
cb	8.7	476.4	1/4	5.0	480.1
1/5	8.9	476.2	cb	6.1	479.0
1/7	10.1	475.0	N	6.3	478.8
1/4	10.3	474.8		14.00	
♀	10.2	474.9	N	4.6	480.5
1/4	10.8	474.3	cb	3.5	481.6
cb	11.9	473.2	1/4	2.5	482.6
N	12.9	472.2	♀	2.2	482.9
	0.50		1/4	2.4	482.7
A	9.7	475.4	1/4	2.0	483.1
cb	9.0	476.1	T.P		-0.35 484.70



	+10.77	H.L. 495.17	484.70
+5		10.6	484.6
cb		9.9	485.3
S		9.5	485.7
		14 25	
S		7.7	487.5
cb		8.4	486.8
+5		8.9	486.3
+7		10.1	485.1
1/4		10.2	485.0
♀		10.1	485.1
1/4		10.5	484.7
cb		11.6	483.6
N		12.8	482.4
		17 50	
N		10.7	484.5
cb		9.4	485.8
1/4		8.3	486.9
♀		8.2	487.0
1/4		8.3	486.9
+4		8.3	486.9
+5		7.5	487.7
cb		6.8	488.4
S		6.4	488.8

H.L. 495.17

31

1475

S	4.0	491.2
cb	5.0	490.2
1/4	5.9	489.3
♀	6.3	488.9
1/4	6.8	488.4
cb	7.7	487.5
N	9.2	486.0
	2400	
N	7.6	487.6
cb	6.1	489.1
1/4	5.1	490.1
♀	4.1	491.1
1/4	3.3	491.9
cb	2.2	493.0
S	0.6	494.6



4-10-29  
 J.C. Bliss  
 Drebert  
 Panner

X-section Helen St - Ramona to  
 Vista - 60' wide  
 10' cbs  
 10' 1/4's

H.I. 478.61

32

B.M. S.W. Marks El Cajon + Helen	473.19	+6	9.4	469.2	
45.4v 478.61		♀	9.3	469.3	
B.M. S.W. B.P. El Cajon + Helen	-5.7v 472.89	1/4	8.6	470.0	
N.L. Panner - 0+00		+8	9.2	469.4	
H.I. 478.61					
E	10.0	468.6	cb	8.1	470.5
cb	10.2	468.4	w	7.9	470.7
1/4	10.2	468.4			
♀	10.4	468.2	w	7.6	471.0
1/4	10.3	468.3	cb	7.4	471.2
cb	10.4	468.2	+2	8.6	470.0
w	10.2	468.4	1/4	8.3	470.3
	0+25		b	8.7	469.9
w	8.8	469.8	+3	8.9	469.7
cb	8.9	469.7	+5	23	471.3
+2	10.2	468.4	1/4	7.2	471.4
1/4	9.6	469.0	cb	6.7	471.9
♀	10.0	468.6	E	6.5	472.1
1/4	9.5	469.1			
cb	9.3	469.3	E	6.2	472.4
E	8.8	469.8	cb	6.6	472.0
	0+50		1/4	6.8	471.8
E	7.7	470.9	+5	7.1	471.5
cb	8.2	470.4	+7	8.5	470.1
1/4	8.1	470.5	♀	8.6	470.0
+5	8.4	470.2	1/4	8.2	470.4

P/6 + 40d - 5-9-29

0+75

1+00



H.I. 478.61

+7	8.7	469.9
+8	7.9	470.7
cb	8.3	470.3
w	7.7	470.9

1+25

w	8.5	470.1
cb	8.2	470.4
+3	8.7	469.9
14	8.1	470.5
¢	8.5	470.1
+3	8.5	470.1
+6	7.0	471.6
14	6.9	471.7
cb	6.5	472.1
E	5.9	472.7

1+50

E	6.5	472.1
cb	7.0	471.6
14	7.3	471.3
+4	7.7	470.9
+7	8.4	470.2
¢	8.2	470.4
14	8.0	470.6
cb	8.7	469.9
w	8.7	469.9

H.I. 478.61

1+75

33

w	8.7	469.9
cb	8.5	470.1
14	8.1	470.5
¢	8.1	470.5
14	8.2	470.4
cb	7.9	470.7
E	7.1	471.5

2+00

E	6.0	472.6
cb	6.4	472.2
14	7.8	470.8
¢	7.8	470.8
14	7.8	470.8
cb	8.4	470.2
w	8.7	469.9

2+25

w	8.4	470.2
cb	8.0	470.6
+5	8.0	470.6
14	7.7	470.9
+5	7.4	471.2
¢	7.5	471.5
+5	7.6	471.0
14	7.3	471.3
cb	6.4	472.2



H.I. 478.61

E	6.0	472.6
	2+50	
F	5.8	472.8
cb	6.0	472.6
1/4	6.9	471.7
¢	7.3	471.3
1/4	7.3	471.3
+g	8.0	470.6
cb	7.4	471.2
w	7.0	471.6
	2+75	
w	6.3	472.3
48	6.5	472.1
cb	7.3	471.3
1/4	7.0	471.6
¢	6.8	471.8
+6	7.0	471.6
1/4	5.5	473.1
cb	5.2	473.4
E	5.1	473.5
	3+10 = S.L. El Cajon - Paved	
F	4.1	474.5
Trcb	4.2	474.09
G	5.16	473.45
1/4	5.15	473.46

H.I. 478.61

34

¢	5.23	473.38
1/4	5.71	472.90
G	6.33	472.28
Trcb	5.70	472.91
w	5.9	472.7
	N.W. El Cajon = 0+00	
w	4.6	474.0
Trcb	5.25	473.36
G	5.87	472.74
1/4	3.35	473.26
¢	4.88	473.73
1/4	4.68	473.93
G	4.62	473.99
Trcb	3.93	474.68
E	3.3	475.3
	0+25	
E	2.2	476.4
cb	2.7	475.9
1/4	2.8	475.8
1/4	3.7	474.9
¢	3.3	475.3
1/4	3.8	474.8
+5	4.0	474.6
cb	2.3	471.3
w	2.3	476.3



H.I. 478.61

0450

w	1.3	477.3
cb	1.0	477.6
+5	0.9	477.7
114	2.1	476.5
♀	1.7	476.9
+6	2.2	476.4
114	1.1	477.5
cb	1.2	477.4
E	1.3	477.3
T.P		-0.22 478.39

+13.12

H.I. 491.51

0475

E	12.7	478.8
cb	12.7	478.8
114	12.7	478.8
+5	13.5	478.0
♀	13.1	478.4
114	13.9	477.6
+4	13.0	478.5
cb	13.2	478.3
w	13.5	478.0
	1400	
w	12.4	479.1
cb	12.3	479.2

H.I. 491.51

35

114	12.4	479.4
♀	11.7	479.8
+8	12.0	479.5
114	11.7	479.8
cb	11.4	480.1
E	12.0	479.5
	1425	
E	10.9	480.6
+4	11.1	480.4
cb	10.0	481.5
114	10.7	480.8
♀	10.4	481.1
114	11.2	480.3
+2	10.7	480.8
cb	11.0	480.5
w	11.2	480.3
	1450	
w	9.0	482.5
cb	8.8	482.7
114	9.2	482.3
♀	8.8	482.7
114	9.4	482.1
cb	8.8	482.7
E	9.5	482.0



H.I. 491.51

1475

E	8.4	483.1
cb	7.5	484.0
1/4	7.6	483.9
¢	6.9	484.6
1/4	7.5	484.0
+3	6.4	485.1
cb	6.9	484.6
W	7.0	484.5

1480

¢ 7.5 Concrete walk at EL.	8.05	483.46
----------------------------	------	--------

2400

W	4.5	487.0
cb	5.0	486.5
+8	4.6	486.9
1/4	5.6	485.9
¢	5.0	486.5
1/4	6.1	485.4
cb	6.1	485.4
E	6.8	484.7

2425

E	5.6	485.9
cb	5.1	486.4
1/4	4.8	486.7
¢	3.7	487.8
1/4	3.9	487.6

H.I. 491.51

36

+2	3.3	488.2
cb	3.3	488.2
W	3.1	488.4

2450

W	2.4	489.1
cb	2.7	488.8
+8	2.4	489.1
1/4	3.0	488.5
¢	2.8	488.7
1/4	3.6	487.9
cb	3.8	487.7
+5	4.7	486.8
E	4.6	486.9

2475

E	3.0	488.5
cb	2.7	489.3
1/4	2.7	489.3
¢	1.6	489.9
+9	2.1	489.4
1/4	1.4	490.1
cb	1.2	489.8
W	2.0	489.5

1.0

+12.98 503.95

- 0.54 490.97



H.I. 503.95  
3+10=SL. Santiago

w	12.4	491.6
cb	12.5	491.5
#8	11.9	492.1
1/4	12.6	491.4
♀	11.8	492.2
1/4	12.4	491.6
cb	12.5	491.5
E	13.3	490.7

H.I. Santiago St 5+10+00

E	8.2	495.8
cb	8.5	495.5
1/4	8.9	495.1
♀	8.4	495.6
1/4	9.3	494.7
cb	10.1	493.9
w	10.3	493.7

0+25

w	7.8	496.2
cb	8.3	495.7
1/4	7.2	496.8
♀	6.7	497.3
1/4	7.0	492.0
cb	7.2	496.8
E	6.8	497.2

H.I. 503.95

0+50

57

E	4.9	499.1
cb	5.1	498.9
1/4	5.0	499.0
♀	4.6	499.4
1/4	5.1	498.9
cb	5.8	498.2
w	5.2	498.8

0+75

w	1.5	502.5
cb	1.8	502.2
1/4	2.0	502.0
♀	1.8	502.2
1/4	2.0	502.0
+4	2.5	501.5
cb	1.7	502.3
E	1.8	502.2

TIP

-0.02 503.95

+13.20

H.I. 517.13

1700

E	12.2	504.9
cb	12.3	504.8
1/4	12.4	504.7
♀	11.7	505.4
1/4	11.5	505.6



H.I. 517.13

cb	11.0	506.1
W.	10.7	506.4
Out 20' x 10' Garage Concrete Floor 1.55		506.57
	1+25	
W.	7.7	509.4
cb	7.8	509.3
1/4	8.2	508.9
+5	8.7	508.4
♀	8.1	509.0
1/4	8.3	508.8
cb	8.4	508.7
E	8.6	508.5
	1+50	
E	5.3	511.8
cb	5.0	512.1
1/4	5.3	511.8
♀	5.2	511.9
1/4	5.7	511.4
cb	4.8	512.3
W	5.0	512.1
	1+75	
W	2.7	514.4
cb	2.6	514.5
1/4	3.0	514.1
♀	2.7	514.4

H.I. 517.13

38

1/4	2.9	514.2
cb	3.0	514.1
E	2.7	514.4
	2+00	
E	0.5	516.6
cb	0.7	516.4
1/4	0.6	516.5
♀	0.3	516.8
1/4	0.6	516.5
cb	0.2	516.9
W	0.1	517.0
T.R.		-0.28 516.85
	1+248	
	H.I. 529.33	
	2+25	
W	9.8	519.5
cb	9.9	519.4
1/4	10.5	518.8
♀	10.1	519.2
1/4	10.4	518.9
cb	10.6	518.7
E	10.5	518.8
	2+50	
E	8.1	521.2
cb	8.6	520.7



H.I. 529.33

1/4	8.2	521.1
E	8.0	521.3
1/4	8.4	520.9
cb	8.0	521.3
W	8.0	521.3
2+64		
10' Concrete Drive at E.L.	7.10	522.23

2+75

W	6.2	523.1
cb	6.1	523.2
1/4	6.6	522.7
E	6.3	523.0
1/4	6.2	523.1
cb	6.2	523.1
E	6.2	523.1

3+00

E	3.9	525.4
cb	4.4	524.9
1/4	4.2	525.1
E	4.1	525.2
1/4	4.2	525.1
cb	4.1	525.2
W	4.0	525.3

2+93

4.5' Walk (concrete) at E.L.	3.85	525.48
------------------------------	------	--------

H.I. 529.33

3+20 = 5 L. Vista

39

W	2.4	526.9
cb	2.4	526.9
1/4	2.5	526.8
E	2.5	526.8
1/4	2.4	526.9
cb	2.6	526.7
E	2.6	526.7

B.M. S.W. Nails Vista + Helen

- 1.00 528.33

Conc. 528.31

Error 102



4-10-29

X-section Lois St. Ramona to El Cajon.

J. C. Bliss  
Drebest  
Kanner

60' wide 10' cb = 10' 445

H.L. 468.51

40

B.M. S.W. Nails Lois + El Cajon

465.32

♀

8.3

460.2

+3.19 468.51

14

8.4

460.1

B.M. S.W. B.P. Lois + El Cajon

-439

464.12

cb

8.8

459.7

H.L. 468.51

E

8.8

459.7

N.L. Ramona = 0+00

0+75

W

10.1

458.4

E

7.5

461.0

cb

10.0

458.5

+5

7.3

461.2

14

9.6

458.9

+8

8.5

460.0

♀

9.1

459.4

cb

8.6

459.9

14

9.0

459.5

14

8.0

460.5

cb

9.2

459.3

♀

7.5

461.0

E

9.5

459.0

14

7.7

460.8

0+25

+9

8.2

460.3

E

9.3

459.2

cb

7.4

461.1

cb

9.1

459.4

W

7.5

461.0

14

8.8

459.7

1+00

♀

8.8

459.7

W

7.2

461.3

14

9.0

459.5

cb

7.5

461.0

cb

9.4

459.1

14

6.9

461.6

W

9.4

459.1

♀

6.9

461.6

0+50

14

7.3

461.2

W

8.5

460.0

cb

7.5

461.0

cb

8.2

460.3

+7

7.6

460.9

14

9.1

459.4

+5

6.6

461.9

14

8.4

460.1

E

6.7

461.8

T/otted = 5-9-29-G.M.J.



Hl. 468.51

1+25

E	6.4	462.1
cb	6.9	461.6
1/4	6.6	461.9
♀	6.4	462.1
1/4	6.5	462.0
cb	6.9	461.6
w	6.6	461.9

1+50

w	6.2	462.3
cb	6.1	462.4
+5	6.5	462.0
1/4	6.2	462.3
♀	5.9	462.6
1/4	6.2	462.3
cb	6.5	462.0
+5	5.7	462.8
E	5.8	462.7

1+75

E	5.6	462.9
cb	6.1	462.4
1/4	6.0	462.5
♀	5.6	462.9
1/4	5.7	462.8
cb	5.8	462.7
w	6.3	462.2

Hl. 468.51

41

2+00

w	56	462.9
cb	55	463.0
1/4	52	463.3
♀	53	463.2
1/4	54	463.1
cb	54	463.1
E	53	463.2

2+25

E	47	463.8
cb	57	463.4
1/4	50	463.5
♀	50	463.5
1/4	52	463.3
cb	54	463.1
w	54	463.1

2+50

w	52	463.3
cb	48	463.7
1/4	49	463.6
♀	45	464.0
1/4	45	464.0
cb	47	464.3
E	41	464.4



H.I. 468.51

2+75

E	3.9	464.6
cb	4.1	464.4
1/4	4.3	464.2
1/2	4.3	464.2
3/4	4.7	463.8
cb	4.7	463.8
W	4.7	463.8
3410 S.L. El Cajon - Pared		
N	4.3	464.2
Top cb	4.35	464.16
G	5.05	463.46
1/4	4.59	463.92
1/2	4.23	464.28
3/4	4.18	464.33
G	4.28	464.23
Top cb	3.64	464.87
E	3.7	464.8

4-11-29  
J.C. Blas  
Dreber  
Panner

X-section Dora St. - Ramona to  
Vista - 60' wide  
10' 145'  
10' cbs

42

B.M. N.W. Top High Max Min Dora + El Cajon	184	481.37	482.53
B.M. S.W. B.P. Dora + El Cajon			- 405 480.29
		MI 484.37	
		N.L. Ramona - 0+00	
		55	478.9
cb		56	478.8
1/4		56	478.8
1/2		55	478.9
3/4		57	478.7
cb		54	479.0
E		55	478.9
		0+25	
		62	478.2
cb		61	478.3
1/4		6.2	478.2
1/2		6.2	478.2
3/4		6.4	478.0
cb		6.7	478.2
W		6.2	478.2
		0+50	
W		7.1	477.3
cb		7.0	477.4
1/4		6.8	479.6
1/2		6.8	477.6

Plotted 5-10-29 - J.M.I.



H. 484.37

1/4	7.0	477.4
cb	6.7	477.7
E	7.0	477.4
	0+75	
E	7.6	476.8
cb	7.5	476.9
1/4	7.3	477.1
♀	6.9	477.5
1/4	7.0	477.4
cb	6.8	477.6
w	6.4	478.0
	1+00	
w	7.4	477.0
cb	6.7	477.7
1/4	6.5	477.9
+v	7.5	476.9
♀	7.2	477.2
1/4	7.5	476.9
+v	7.5	476.9
+3	6.9	477.5
cb	7.4	477.0
E	8.0	476.4
	1+25	
E	9.0	475.4
cb	8.7	475.7

H. 484.37

43

1/4	7.7	476.7
♀	7.5	476.9
1/4	8.1	476.3
cb	8.2	476.2
w	8.1	476.3
	1+50	
w	7.0	477.4
cl	7.3	477.1
1/4	7.5	476.9
♀	7.0	477.4
1/4	7.5	476.9
cb	8.3	476.1
E	8.2	476.2
	1+75	
E	7.5	476.9
cb	7.1	477.3
1/4	7.1	477.3
♀	6.8	477.6
1/4	6.9	477.5
cb	6.5	477.9
w	6.3	478.1
	2+00	
w	5.3	479.1
cb	5.4	479.0
1/4	6.0	478.4



H.I. 484.37

1/4	6.8	477.6
¢	6.3	478.1
1/4	6.8	477.6
cb	6.6	477.8
E	6.8	477.6
2+25		
E	6.0	478.4
cb	6.3	478.1
1/4	6.3	478.1
¢	5.8	478.6
1/4	6.2	478.2
cb	5.5	478.9
W.	5.0	479.4
2+50		
W	4.8	479.6
cb	5.3	479.7
1/4	5.9	478.5
¢	5.7	478.7
1/4	5.2	478.2
cb	6.2	478.2
E	5.5	478.9
2+35		
¢ 1/2 Garage at EL Dist Floor	6.0	478.4

H.I. 484.37

44

2+75

E	5.3	479.1
cb	5.8	478.6
1/4	5.8	478.6
¢	5.5	478.9
1/4	6.1	478.3
cb	5.5	478.9
W	5.1	479.3
3+10 = 5.1 El Cajon - Paved		
W	4.6	479.8
Trcb	4.30	480.07
G	4.97	479.40
1/4	4.74	479.63
¢	4.68	479.69
1/4	4.92	479.45
G	5.40	478.97
Trcb	4.77	479.60
E	5.0	479.4
N. 1. El Cajon = 0+00		
E	2.8	481.6
1/8	2.9	481.5
Sp cb	4.44	479.93
E	5.10	479.27
1/4	4.70	479.67
¢	4.28	480.09
1/4	4.22	480.15



H.I. 484.37

G	434	480.03
Tp cb	3.73	480.64
W	35	480.9
	0+25	
W	1.7	482.7
cb	2.0	482.4
1/4	2.6	481.8
♀	2.4	482.0
1/4	2.6	481.8
cb	2.3	482.1
1/4	1.5	482.9
E	2.0	482.4
	0+50	
E	0.6	483.9
cb	0.2	484.2
1/4	1.0	483.4
♀	0.7	483.7
1/4	1	483.3
cb	0.8	483.6
W	0.5	483.9
T.P.		-0.11 484.26
	484.37	
	497.30	
W	12.9	484.4
cb	12.3	485.0

H.I. 497.30

45

1/4	12.5	484.8
♀	12.2	485.1
1/4	12.8	484.5
1/4	12.7	484.6
cb	11.6	485.7
E	12.1	485.2
	1+00	
E	10.5	486.8
cb	10.6	486.7
1/4	11.4	485.9
♀	10.4	486.9
1/4	10.7	486.6
cb	10.5	486.8
W	10.7	487.1
	1+25	
W	8.5	488.8
cb	8.9	488.4
1/4	8.8	488.5
♀	8.8	488.5
1/4	9.1	488.2
cb	8.2	489.1
E	8.4	488.9
	1+50	
E	6.2	491.1
cb	6.7	490.6



H.I. 497.30

1/4	70	490.3
♀	68	490.5
1/4	67	490.6
cb	68	490.5
N	67	490.6

Note - Sta 0 to 150 - Row of poplar trees 7' in street from E.L.

1+75

W	50	492.3
cb	49	492.4
1/4	46	492.7
♀	51	492.2
1/4	50	492.3
cb	54	492.9
E	52	492.1

2+06

E	34	493.9
cb	33	494.0
1/4	28	494.8
+5	27	494.6
♀	33	494.0
1/4	29	494.4
cb	36	493.7
N	39	493.4

H.I. 497.30

46

2+25

W	24	494.9
cb	19	495.4
1/4	14	495.9
♀	18	495.5
+3	22	495.1
+5	10	496.3
1/4	0.9	496.4
cb	1.2	596.1
E	1.2	596.1
T.P		-0.35 496.95

493.09

H.I. 510.04

2+50

E	12.4	497.6
cb	12.5	497.5
1/4	12.2	497.8
+6	12.5	497.5
♀	13.5	496.5
1/4	13.0	497.0
cb	13.9	513.9
N	14.4	495.6

2+75

W	13.6	496.4
cb	12.7	497.3
1/4	12.2	497.8
♀	12.4	497.6



H.I. 510.04

L4	11.6	498.6
1/4	11.2	498.8
cb	11.0	499.0
E	10.7	499.3

3+10 = 5 L. Santiago

E	8.5	501.5
cb	9.1	500.9
1/4	9.7	500.3
¢	10.7	499.3
1/4	10.7	499.3
cb	11.5	498.5
N	11.8	498.2

N.C. Santiago = 0+00

W	8.6	501.4
cb	8.0	502.0
1/4	7.4	502.6
¢	7.0	503.0
1/4	6.3	503.7
cb	5.9	504.1
E	5.5	504.5

0+25

E	3.5	506.5
cb	3.7	506.3
1/4	4.5	505.5
¢	5.0	505.0

H.I. 510.04

1/4	5.8	504.2
cb	6.0	504.0
N	6.4	503.6

0+50

W	5.6	504.4
cb	4.7	505.3
1/4	4.0	504.0
¢	3.1	506.9
1/4	2.5	507.5
cb	1.0	509.0
E	0.3	509.7

T.P.

-0.17 509.87

4+25

H.I. 522.79

0+75

E	10.7	512.1
cb	11.5	511.3
1/4	11.7	511.1
¢	12.9	509.9
1/4	13.7	509.1
cb	14.9	507.9
W	15.9	506.9
0+15	16.6	506.2

1+00

0+15

13.7 509.1



H.I. 522.79

w	12.1	510.7
cb	11.3	511.5
1/4	10.4	512.4
♀	9.4	513.4
1/4	8.3	514.5
cb	7.3	515.5
E	6.7	516.1
	1+25	
E	3.9	518.9
cb	4.3	518.5
1/4	4.8	518.0
♀	5.3	517.5
1/4	6.0	516.8
cb	6.7	516.1
w	7.7	515.1
Out 15	8.7	514.1
	1+50	
Out 15	4.2	518.6
w	3.0	519.8
cb	2.1	520.7
1/4	1.5	521.3
♀	1.0	521.8
1/4	0.8	522.0
cb	0.8	522.0
E	1.0	521.8

H.I. 522.79

48

T.P.	0.61	522.18
	+11.81	H.I. 533.99
	1+69	
E	11.8	522.2
cb	11.8	522.2
1/4	11.8	522.2
E	11.8	522.2
1/4	11.8	522.2
cb	11.9	522.1
w	12.2	521.8
	1+71	
w	14.0	523.0
cb	10.9	523.1
1/4	10.6	523.4
E	10.5	523.5
1/4	10.6	523.4
cb	10.8	523.2
E	10.8	523.2
	2+00	
E	8.7	525.3
cb	8.6	525.4
1/4	7.9	526.1
♀	7.7	526.3
1/4	7.9	526.1
cb	8.1	525.9



H.I. 533.99

w	7.9	526.1
	2+25	
w	6.1	527.9
cb	6.3	527.7
1/4	6.4	527.6
♀	6.5	527.5
1/4	6.5	527.5
cb	7.0	527.0
E	7.2	526.8
	2+50	
E	5.7	528.3
cb	5.4	528.6
1/4	5.3	528.7
♀	5.2	528.8
1/4	5.2	528.8
cb	4.7	529.3
w	4.0	530.0
	2+75	
w	3.6	530.4
cb	4.0	530.0
1/4	4.0	530.0
♀	4.2	529.8
1/4	4.6	529.4
cb	4.8	529.2
E	5.0	529.0

H.I. 533.99

49

	2+77	
♀ 4' Concrete Walk 11' Back E.H.	4.95	530.04
	3+00	
E	4.9	529.1
cb	4.4	529.6
1/4	4.0	530.0
♀	3.6	530.4
1/4	3.3	530.7
cb	3.0	531.0
w	2.8	531.2
	3+20 = 5 L. Vista	
w	2.7	531.3
cb	3.1	530.9
1/4	3.6	530.4
♀	4.4	529.6
1/4	5.3	528.7
cb	5.8	528.2
E	7.0	527.0
	B.M. Nails in Pole East side Door	
	150' South of Vista	-9.52 524.47
		correct 524.53
		error .06



4-11-27  
J.C. Bliss  
Drebert  
Pauner

X-section Lois St. El. Cajon to  
Vista - Pavement & curbs in. 40' Roadway

H.I. 475.65

50

B.M. S.W. B.P. El. Cajon + Lois 464.12

+11.53

H.I. 475.65  
N.L. El. Cajon = 0.100

W Tpcb	11.31	464.29
G	11.90	463.69
♀	11.16	464.49
G	11.28	464.37
E Tpcb	10.67	464.98
	0.50	
E Tpcb	9.27	466.38
G	9.87	465.78
♀	9.50	466.15
G	10.42	465.23
W Tpcb	9.82	465.83
	1.00	
W Tpcb	8.27	467.38
G	8.85	466.80
♀	8.04	467.61
G	8.51	467.14
E Tpcb	7.74	467.91
	1.40 = S.L. Alley	
E Tpcb	6.80	468.85
G	7.31	468.34
♀	6.85	468.80
G	7.64	468.01
W Tpcb	7.18	468.47

Plotted 5-10-29 - G.M.J.

W Tpcb

6.48 469.17

G

7.05 468.60

♀

6.29 469.36

G

6.59 468.06

E Tpcb

5.92 469.73

2.00

E Tpcb

4.95 470.70

G

5.54 470.11

♀

5.12 470.53

G

5.93 469.72

W Tpcb

5.32 470.33

2.50

W Tpcb

3.78 471.87

G

4.40 471.25

♀

3.69 471.96

G

4.27 471.38

E Tpcb

3.60 472.05

3.10 = S.L. Santiago

E Tpcb

1.98 473.67

G

2.57 473.08

♀

1.94 473.71

G

2.51 473.14

W Tpcb

1.90 473.25



H.S. 475.65

V.L. Santiago = 0+00

W Tpcb	0.87	474.78
G	1.51	474.14
♀	0.82	474.83
G	1.45	474.20
E Tpcb	0.87	474.78

0+00.

E Tpcb	0.72	474.93
G	1.84	474.31
♀	0.68	474.97
G	1.30	474.35
W Tpcb	0.71	474.94

0+45

W Tpcb	0.86	474.79
G	1.46	474.19
♀	0.90	474.75
G	1.50	474.15
E Tpcb	0.94	474.71

0+70

E Tpcb	1.30	474.35
G	1.94	473.71
♀	1.42	474.23
G	1.94	473.71
W Tpcb	1.33	474.32

1+00

W Tpcb	2.59	473.06
--------	------	--------

H.S. 475.65

51

G	3.16	472.49
♀	2.52	473.13
G	3.17	472.48
E Tpcb	2.60	473.05
T.P.		-261 473.04

7.012

H.S. 473.16

1+50 = S.L. Alley

E Tpcb	2.48	470.68
G	3.08	470.08
♀	2.68	470.48
G	3.14	470.02
W Tpcb	2.57	470.59

1+20 = N.L. Alley

W Tpcb	3.83	469.33
G	4.32	468.84
♀	3.78	469.38
G	4.35	468.81
E Tpcb	3.88	469.28

2+00

E Tpcb	5.29	467.87
G	5.93	467.23
♀	5.25	467.91
G	5.84	467.32
W Tpcb	5.24	467.92



H.I. 473.16

2750

W Tpcb	7.84	465.32
G	8.43	464.73
♀	7.78	465.38
G	8.48	464.68
E Tpcb	7.88	465.28

3700 = 51

E Tpcb	10.43	462.73
G	11.00	462.16
♀	10.49	462.67
G	11.06	462.10

W Tpcb

3720 = 54 Vista

W Tpcb	11.49	461.67
G	12.00	461.16
♀	11.41	461.75
G	11.96	461.20
E Tpcb	11.50	461.66
S.W. B.P. Lois + Vista	-11.34	461.82
Correct		461.82

4-12-29 X-section Vista 54 - Lois +  
 J.C. Bliss Alice - 60' wide - 10' obs 10'//45  
 Present  
 Payer

52

B.M. SW. B.P. Lois + Vista

461.82

+0.41

H.I. 472.23

W.L. Lois = 0.400

S	10.0	462.2
Tp existing ab	10.59	461.64
Gutter - Paving	11.09	461.14
14	10.8	461.4
♀	10.9	461.3
17	10.4	461.8
14	5.7	466.5
cb	6.3	465.9
11	7.5	464.7
	0.21	
1	2.2	465.0
cb	6.2	466.0
14	5.4	466.8
f3	10.4	461.8
♀	18.8	461.4
14	10.8	461.4
f8	10.3	461.9
cb	3.8	468.4
5	3.1	469.1
	0.08	
5	3.0	469.2

Plotted - 5-10-29 - G.M.J.



H.I. 472.23

cb.	3.3	468.9
+6	3.3	468.9
+7	9.7	462.5
14	10.0	462.2
♀	10.0	462.2
+7	9.1	463.1
+9	4.2	468.0
14	4.4	467.8
cb	5.3	466.9
N	6.2	466.0

0+25

N	4.9	467.3
cb	3.9	468.3
+14	3.1	469.1
+3	3.0	469.2
+4	7.7	464.5
♀	7.9	464.3
14	8.1	464.1
+3	7.4	464.8
+4	2.7	469.5
cb	2.4	469.8
J	2.9	469.3

-1.86 470.37

+6.68 477.05

H.I. 477.05

53

0+60

S	4.8	472.3
cb	5.5	471.6
+6	5.3	471.8
14	6.4	470.7
♀	16.8 <sup>00</sup>	470.3
14	6.3	470.8
cb	6.5	470.6
N	6.9	470.2

0+75

N	5.3	471.8
cb	5.3	471.8
14	5.2	471.9
+3	5.1	472.0
14	6.4	470.7
♀	6.0	471.1
14	6.1	471.0
+2	6.0	471.1
+4	4.8	472.3
cb	4.6	472.5
S	4.3	472.8

1+00

S	3.6	473.5
cb	3.8	473.3
+8	3.7	473.4
+9	4.0	472.5



H.I. 4 77.05

1/4	4.5	472.6
ϕ	4.4	472.7
+6	4.4	472.7
+8	3.9	473.2
1/4	4.0	473.1
cb	4.4	472.7
N	4.6	472.5
1425		
N	4.5	472.6
cb	4.4	472.7
1/4	4.1	473.0
ϕ	4.2	472.9
1/4	4.4	472.7
+2	4.4	472.7
+3	3.6	473.5
cb	3.6	473.5
S	3.5	473.6
1450		
S	3.7	473.4
cb	3.6	473.5
+8	3.5	473.6
1/4	4.2	472.9
ϕ	3.9	473.2
+7	3.8	473.3
+8	3.2	473.9

H.I. 477.05

54

1/4	3.4	473.7
cb	3.3	473.8
N	4.0	473.1
1475		
N	3.8	473.3
cb	3.7	473.4
1/4	4.0	473.1
ϕ	4.2	472.9
1/4	4.5	472.6
+3	4.0	473.1
cb	4.0	473.1
S	3.9	473.2
2+00		
S	4.2	472.9
cb	4.3	472.8
1/4	4.8	472.3
ϕ	4.4	472.7
1/4	4.7	472.4
cb	4.6	472.5
N	4.5	472.6
2+25		
N	5.4	471.7
cb	5.7	471.4
1/4	5.2	471.9
ϕ	4.7	472.4



H.I. 477.05

1/4	50	472.1
cb	50	472.1
S	50	472.1
	2+50	
S	57	471.4
cb	57	471.4
1/4	54	471.7
¢	50	472.1
1/4	56	471.5
cb	61	471.0
N	61	471.0
	2+75	
N	65	471.6
cb	64	470.7
1/4	62	470.9
¢	52	471.9
1/4	58	471.3
cb	60	471.1
S	60	471.1
	3+00	
S	61	471.0
cb	62	470.9
1/4	61	471.0
¢	55	471.6
1/4	65	471.6

H.I. 477.05

55

cb	53	69	470.2
N		71	470.0
	3+75		
N		71	470.0
cb		69	470.2
1/4		66	470.5
¢		57	471.4
1/4		61	471.0
cb		63	470.8
S		60	471.1
	3+50		
S		55	471.6
cb		58	471.3
1/4		62	470.9
¢		58	471.3
1/4		65	470.6
cb		70	470.1
N		73	469.8
	3+75		
N		73	469.8
cb		65	470.6
1/4		62	470.9
¢		61	471.0
1/4		61	470.2
1/3		60	471.1



H.I. 477.05

cb	54	471.7
S	51	472.0
	4+00	
S	49	472.2
cb	5.0	472.1
+6	54	471.7
1/4	7.2	469.9
¢	6.4	470.7
+7	7.0	470.1
1/4	5.9	471.2
cb	6.2	470.9
N	6.8	470.3
	4+25	
N	6.8	470.3
cb	6.2	470.9
1/4	5.9	471.2
+3	7.2	469.9
¢	6.8	470.3
1/4	7.5	469.6
+5	5.1	472.0
cb	5.1	472.0
S	4.7	472.4
	4+50	
S	4.5	472.6
cb	4.7	472.4

H.I. 477.05

56

+5	5.1	472.0
1/4	7.8	469.3
¢	7.2	469.9
+7	7.5	469.6
1/4	6.0	471.1
cb	6.1	471.0
N	6.8	470.3
T.P.		-7.28 469.77
	+2.13	
	H.I. 471.90	
	4+75	
N	1.6	470.3
cb	1.1	470.8
1/4	1.0	470.9
+4	3.3	468.6
¢	2.8	469.1
1/4	3.2	468.7
+5	0.4	471.5
cb	0.4	471.5
S	0.0	471.9
	5+00	
S	1.4	470.5
cb	1.5	470.4
+6	1.7	470.2
1/4	4.4	467.5



H.I. 471.90

♀	3.7	468.2
+8	4.3	467.6
1/4	2.7	469.2
cb	2.6	469.3
N	3.0	468.9

5+2.5

N	4.3	467.6
cb	4.5	467.4
1/4	4.3	467.6
+3	6.0	465.9

♀	5.5	466.4
1/4	6.2	465.7
+4	3.5	468.4
cb	3.5	468.4
5	3.4	468.5

5+5.0

5	5.1	466.8
cb	5.4	466.5
+7	5.4	466.5
1/4	8.0	463.9

♀	7.1	464.8
+8	7.7	464.2
1/4	8.2	465.7
cb	5.8	466.1
N	5.8	466.1

H.I. 471.90

57

5+7.5

N	8.5	463.4
cb	8.4	463.5
1/4	8.3	463.6
+2	10.0	461.9
♀	7.4	462.5
1/4	9.9	462.0
+2	8.2	463.7
cb	7.5	464.4
5	7.8	464.1

6+0.0

5	10.3	461.6
cb	9.9	462.0
1/4	12.0	459.9
♀	11.6	560.3
1/4	11.8	460.1
+8	12.3	459.6
cb	11.6	460.3
+4	10.6	460.3
N	10.6	461.3

6+2.0 = E.L. Victoria

N	13.0	458.9
cb	13.0	458.9
1/4	13.1	458.8
♀	13.1	458.8
1/4	13.1	458.8



H.I. 471.90

cb	13.3	458.6
S	13.4	458.5
T.P		-1328 458.67

+1.93

H.I. 460.60

450.6

S	E cb Victoria	2.3	458.3
cb		2.2	458.4
1/4		2.3	458.3
♀		2.2	458.4
1/4		2.1	458.5
cb		2.1	458.5
N		2.1	458.5

♀ Victoria

N		4.3	456.3
cb		4.1	456.5
1/4		3.4	457.2
♀		3.2	457.4
1/4		2.8	457.8
cb		2.7	457.9
S		2.6	458.0

Web Victoria

S		4.8	455.8
47		5.0	455.6
cb		3.8	456.8
1/4		4.0	456.6

H.I. 460.60

58

♀	4.3	456.3
1/4	4.5	456.1
cb	5.6	455.0
N	5.8	454.8

W.L. Victoria = 0400

N	6.1	454.5
cb	5.8	454.8
1/4	5.0	455.6
♀	4.8	455.8
1/4	4.8	455.8
cb	5.5	455.1
S	5.6	455.0

B.M. S. W. Neils Victoria + Vista -2.16 458.44

Correct 458.43

0225

S	7.1	453.5
cb	7.0	453.6
1/4	6.6	454.0
♀	6.2	454.4
1/4	6.7	453.9
cb	7.3	453.3
N	7.3	453.3

0450

N	8.1	451.7
cb	8.8	451.8



H.I. 460.60

+6	86	452.0
1/4	76	453.0
¢	7.5	453.1
1/4	7.8	452.8
cb	8.3	452.3
S	8.4	452.2

0-75

S	9.6	451.0
cb	9.8	450.8
+7	9.3	451.3
1/4	9.0	451.6
¢	8.7	451.9
1/4	9.1	451.5
+3	10.1	450.5
cb	10.3	450.3
N	10.0	450.6

1400

N	11.2	449.4
cb	11.1	449.5
1/4	10.7	449.9
+3	10.0	450.6
¢	9.6	451.0
1/4	10.1	450.5
cb	10.6	450.0
S	10.5	450.1

H.I. 460.60

59

1425

S	11.2	449.4
cb	10.9	449.7
1/4	10.9	449.7
¢	10.5	450.1
1/4	11.4	449.2
+2	12.0	448.6
cb	11.1	449.5
N	12.2	448.4

1450

N	12.7	447.9
cb	12.6	448.0
+7	12.8	447.8
1/4	12.0	448.6
¢	11.3	449.3
1/4	11.6	449.0
cb	12.2	448.4
S	12.0	448.6

1475

S	12.5	448.1
cb	12.8	447.8
1/4	12.2	448.4
¢	11.8	448.8
1/4	12.4	448.2
+2	13.3	447.3
cb	13.3	447.3



H.I. 460.60

N 13.3 447.3  
 T.P. ~~13.3~~ -12.65 447.95

4362

H.I. 451.57

2+00

N 5.9 446.7  
 cb 5.5 446.1  
 48 5.2 446.4  
 1/4 5.1 447.7  
 ♀ 3.3 448.3  
 1/4 3.4 448.2  
 44 4.0 447.6  
 cb 4.0 447.6  
 5 4.3 447.3  
 12+25  
 5 4.3 447.3  
 cb 4.0 447.6  
 1/4 3.6 448.0  
 ♀ 3.6 448.0  
 47 4.1 447.5  
 1/4 5.4 446.2  
 cb 5.8 445.8  
 N 6.1 445.5

H.I. 451.57

2+50

N 5.8 445.8  
 cb 5.7 445.9  
 1/4 5.0 446.6  
 4.5 447.6  
 ♀ 3.8 447.8  
 1/4 3.7 447.9  
 cb 3.4 448.2  
 5 3.0 448.6

2+75

5 3.1 448.5  
 cb 3.3 448.3  
 1/4 3.9 447.7  
 ♀ 3.9 447.7  
 1/4 4.5 447.1  
 cb 5.0 446.6  
 N 5.4 446.2

3+00

N 4.9 446.7  
 cb 4.8 446.8  
 1/4 4.2 447.4  
 ♀ 3.8 447.8  
 1/4 3.9 447.7  
 4.3 448.9  
 cb 2.3 449.3  
 5 2.4 449.2

60



H.I. 45157

3+25

S	2.0	449.6
cb	2.1	449.5
+7	2.6	449.0
1/4	3.9	447.7
Q	3.7	447.9
1/4	3.9	447.7
cb	4.4	447.2
N	4.7	446.9

3+50

N	3.9	447.7
cb	3.7	447.9
1/4	3.5	448.1
Q	3.5	448.1
1/4	3.7	447.9
+3	2.3	449.3
cb	2.2	449.4
S	2.0	449.6

3+75

S	2.0	449.6
cb	2.5	449.1
+7	2.5	449.1
1/4	3.8	447.8
Q	3.6	448.8
1/4	3.5	448.1
cb	3.5	448.1

H.I. 45157

61

N	3.7	447.9
---	-----	-------

4+00

N	4.2	447.4
cb	3.8	447.8
1/4	3.4	448.2
+3	4.3	447.3
Q	4.0	447.6

1/4	3.9	447.7
-----	-----	-------

+3	2.7	448.9
----	-----	-------

cb	2.7	448.9
----	-----	-------

S	2.5	449.1
---	-----	-------

4+25

S	2.9	448.7
---	-----	-------

cb	3.1	448.5
----	-----	-------

1/4	3.4	448.2
-----	-----	-------

+1	4.4	447.2
----	-----	-------

Q	4.3	447.3
---	-----	-------

+7	4.4	447.2
----	-----	-------

1/4	3.9	447.7
-----	-----	-------

cb	4.3	447.3
----	-----	-------

N	4.5	447.1
---	-----	-------

4+50

N	4.3	447.3
---	-----	-------

cb	4.5	447.1
----	-----	-------

1/4	4.3	447.3
-----	-----	-------



H.I. 451.57

14	50	446.6
♀	46	447.0
14	50	446.6
14	39	447.7
cb	40	447.6
5	38	447.8
4475		
5	4.5	447.1
cb	4.5	447.1
14	46	447.1
♀	48	446.8
14	46	447.0
cb	4.6	447.0
N	4.4	447.2
5+00		
N	48	446.8
cb	50	446.6
12	51	446.5
13	57	445.9
14	55	446.1
♀	56	446.0
14	56	446.0
cb	55	446.1
5	53	446.3

H.I. 451.57

62

5+25		
5	4.7	446.9
cb	5.6	446.0
14	6.0	445.6
♀	6.2	445.4
14	6.2	445.4
cb	6.3	445.3
N	6.2	445.4
5+50		
N	7.0	444.6
cb	6.5	445.1
14	6.1	445.5
14	6.8	444.8
♀	6.5	445.1
14	6.8	444.8
cb	6.9	444.7
5	6.7	444.9
5+75		
5	7.2	444.4
cb	7.3	444.3
14	7.3	444.3
♀	7.1	444.5
14	7.4	444.2
cb	7.5	444.1
N	8.0	443.6



H.I. 451.57

6-00

N	7.2	444.4
cb	7.3	444.3
1/4	7.7	443.9
♀	7.6	444.0
1/4	7.7	443.9
cb	8.0	443.6
S	8.3	443.3

6+20 = E.L. Olive

S	8.3	443.3
cb	8.3	443.3
1/4	7.8	443.8
♀	7.8	443.8
1/4	8.1	443.5
cb	8.6	443.0
N	8.3	443.3

E cb olive

N	8.9	442.7
cb	9.0	442.6
1/4	8.7	442.9
+3	8.0	443.6
♀	7.8	443.8
1/4	7.9	443.7
cb	7.8	443.8
Flow line 18" Corr. Iron Culvert	9.1	442.5
S	8.3	443.3

H.I. 451.57

♀ Olive

63

S	8.3	443.3
cb	8.4	443.2
1/4	8.4	443.2
♀	8.3	443.3
1/4	8.3	443.3
5v = Flow line 18" Corr. Iron Culvert	10.1	441.5
cb	9.5	442.1
N	8.5	443.1

N cb olive

N	11.0	440.6
cb	11.0	440.6
+2	10.6	441.0
+6	8.6	443.0
1/4	8.4	443.2
♀	8.7	442.9
1/4	8.9	442.7
cb	9.3	442.3
+5	9.8	441.8
S	8.9	442.7

N.L. Olive = 0+00

S	8.4	443.2
cb	8.6	443.0
+3	9.5	442.1
1/4	9.0	442.6
♀	8.8	442.8



H.I. 451.57

1/4	8.7	442.9
+5	10.1	441.5
cb	10.4	441.2
N	11.1	440.5
0+25		
N	9.6	442.0
cb	9.4	442.2
1/4	8.6	443.0
8	8.5	443.1
1/4	9.0	442.6
+4	9.0	442.6
+5	8.1	443.5
cb	7.5	444.1
5	7.0	444.6

B. M. S. W. Kails Olive + Vista - 5.23 445.64  
 + 5.90 Correct 445.67  
 Error .03

H.I. 451.57

0+30		
5	7.1	444.5
cb	7.5	444.1
+1	8.1	443.5
1/4	8.7	442.9
8	8.2	443.4
1/4	9.5	442.1
cb	9.7	441.9

H.I. 451.57

64

N	10.2	441.4
0+75		
N	9.7	441.9
cb	8.8	442.8
1/4	8.4	443.2
8	7.7	443.9
1/4	8.5	443.1
cb	7.1	444.5
5	6.8	444.8
1+00		
5	6.3	445.3
cb	6.7	444.9
+6	6.8	444.8
+7	7.9	443.7
1/4	8.1	443.5
8	7.5	444.1
1/4	8.4	443.2
cb	8.6	443.0
N	9.3	442.3
1+25		
N	8.6	443.0
cb	8.2	443.4
1/4	7.7	443.9
8	6.8	444.8
1/4	7.5	444.1



H.I. 451.57

+v	7.5	4441
+5	6.3	4453
cb	6.3	4453
5	5.9	4457
	14.50	
5	5.2	4464
cb	5.3	4463
+5	5.3	4463
+8	7.1	446.5
1/4	6.9	4447
φ	6.2	4454
1/4	7.0	4446
cb	7.4	444.2
N	7.5	4441
	14.75	
N	6.5	4451
cb	6.4	4452
1/4	6.1	4455
φ	5.7	4459
1/4	6.3	4453
+v	6.2	4454
+4	5.1	4465
cb	5.0	4466
5	4.5	4471

H.I. 451.57

65

	2400	
5	4.5	4471
cb	4.8	4468
+5	4.8	4468
+8	6.0	4456
1/4	6.0	4456
φ	5.3	4463
1/4	5.5	446.1
cb	5.9	4457
N	6.1	445.5
	2425	
N	5.8	4458
cb	5.6	4460
1/4	5.2	4464
φ	4.8	4468
1/4	5.7	4459
+5	4.5	4471
cb	4.5	4471
5	4.2	4474
	2450	
5	3.5	448.1
cb	3.6	448.0
+6	3.6	448.0
+8	5.1	446.5
1/4	5.0	446.6
φ	4.1	447.5



H.I. 451.57

1/2	4.7	446.9
cb	4.9	446.7
N	5.2	446.4
2+25		
N	4.7	446.9
cb	4.3	447.3
1/4	3.9	448.7
£	3.3	448.3
1/4	4.1	447.5
1/2	4.0	447.6
1/5	3.2	448.4
cb	3.0	448.6
S	2.9	448.7
3+100		
S	2.0	449.6
cb	2.0	449.6
1/6	2.3	449.3
1/8	3.4	448.2
1/4	3.4	448.2
£	2.8	448.8
1/4	3.3	448.3
cb	3.9	447.7
N	4.0	447.6
3+25		
N	2.9	448.7

H.I. 451.57

66

cb	2.7	448.9
1/4	2.5	449.1
£	2.2	449.4
1/4	2.7	448.9
1/3	2.6	449.0
1/4	1.8	449.8
cb	1.6	450.0
S	1.1	450.5
T.P	-1.3	449.64
4384		
H.I. 453.48		
3+50		
S	2.7	450.8
cb	2.8	450.7
1/6	2.7	450.8
1/8	4.1	449.4
1/4	4.0	449.5
£	3.3	450.2
1/9	3.8	449.7
1/4	3.3	450.2
cb	3.3	450.2
N	3.4	450.1
3+75		
N	3.1	450.4
cb	3.0	450.5



H.1. 453.48

1/4	32	450.3
¢	30	450.5
1/4	37	449.8
cb	27	450.8
S	27	450.8
	4400	
S	30	450.5
cb	30	450.5
1/4	31	450.4
+8	40	449.5
1/4	39	449.6
¢	33	450.2
1/4	36	449.9
cb	33	450.2
N	31	450.4
	4408	
¢ 4' Concrete Walk-7' Back N.L.	268	450.80
	4425	
N	39	449.6
cb	38	449.7
1/4	41	449.4
¢	32	449.8
1/4	44	449.1
+2	42	449.3
+3	33	450.2

H.1 453.48

67

cb	32	450.3
S	32	450.3
	4450	
S	37	449.8
cb	32	450.3
1/4	37	449.8
1/4	38	448.9
1/4	47	448.8
¢	40	449.5
+8	46	448.9
1/4	40	449.5
cb	44	449.1
N	43	449.2
	4475	
N	46	448.9
cb	46	448.9
1/4	50	448.5
¢	46	448.9
1/4	53	448.2
+2	51	448.4
+3	42	449.3
cb	43	449.2
S	44	449.1
	5100	
S	52	448.3



H.I. 453.48

cb	5.1	448.4
+ 7	5.0	448.5
+ 8	5.8	447.7
1/4	6.0	447.5
♀	5.2	448.3
+ 8	5.5	448.0
1/4	4.9	448.6
cb	5.0	448.5
N	5.1	448.4

5+45

N	5.3	448.2
cb	5.8	447.7
1/4	6.3	447.2
♀	5.9	447.6
1/4	6.8	446.7
cb	6.2	447.3
♀	6.1	447.4

5+50

S	6.7	446.8
cb	7.0	446.5
1/4	7.3	446.2
♀	6.5	447.0
+ 9	6.8	446.7
1/4	6.3	447.2
cb	6.3	447.2

H.I. 453.48

68

N	6.4	447.1
5+75		
N	7.1	446.4
cb	7.3	446.2
1/4	7.3	446.2
♀	7.0	446.5
1/4	7.8	445.7
cb	7.3	447.2
S	7.0	446.5

6+10. ELi Alice

S	7.5	446.0
cb	8.0	445.5
1/4	8.1	445.4
♀	8.2	445.3
1/4	8.3	445.2
cb	8.4	445.1
N	8.4	445.1

B.M. S.W. Nails Vista &amp; Alice

-1.30 447.18

Correct 447.20

Error 0.02



4-15-29 X-section Vista St. - Helen to  
 J.C. Bliss  
 Drebe +  
 Rainer

B.M. S.W. Nails in Pole - Helen + Vista

52831

+ 2.51

H.I. 530.82

W.L. Helen 6+20

S	4.0	526.8
cb	3.3	527.5
1/4	2.6	528.2
ϕ	1.9	528.9
1/4	1.1	529.7
cb	0.8	530.0
1	0.0	530.8
	6+20	
1	0.2	530.6
cb	0.8	530.0
1/4	1.4	529.4
ϕ	2.1	528.7
1/4	2.9	527.9
cb	3.4	527.4
S	4.2	526.6
	5+75	
S	4.8	526.0
cb	4.0	526.8
1/4	3.3	527.5
ϕ	2.4	528.4
1/4	1.8	529.0

Plotted - 5-10-29 - G.M.J.

H.I. 530.82

69

cb	1.2	529.6
1	0.7	530.1
	5+50	
1	1.6	529.2
cb	2.0	528.8
1/4	2.7	528.1
ϕ	3.1	527.7
1/4	3.6	527.2
cb	4.5	526.3
S	5.5	525.3
	5+25	
S	6.1	524.7
cb	5.3	525.5
1/4	4.6	526.2
ϕ	4.0	526.8
1/4	3.3	527.5
cb	2.7	528.1
1	2.1	528.7
	5+00	
1	2.6	528.2
cb	4.0	526.8
1/4	4.5	526.3
ϕ	5.1	525.7
1/4	5.3	525.5
cb	5.0	524.9



H.I. 53082

S	6.7	524.1
	4+75	
S	7.8	523.0
cb	7.4	523.4
1/2	7.3	523.5
¢	6.8	524.0
1/4	7.1	523.7
+1	6.4	524.4
cb	5.9	524.9
N	5.3	525.5
	4+50	
N	8.5	522.3
cb	9.4	521.4
+9	9.6	521.2
1/4	10.6	520.2
¢	10.1	520.7
1/4	10.5	520.3
cb	11.8	519.0
S	11.1	519.7
	4+75	
S	13.9	516.9
cb	13.9	516.9
1/4	13.7	517.1
¢	13.8	517.0
1/4	14.0	516.8

H.I. 53082

70

+2	13.4	517.4
cb	12.9	517.9
N	12.6	518.2
T.P.	12.9	517.86
	4+78	
	H.I. 518.64	
	4+00	
N	4.5	514.1
cb	4.5	514.1
+8	4.7	513.9
1/4	5.5	513.1
¢	4.8	513.8
1/2	5.1	513.5
cb	5.3	513.3
S	5.4	513.2
	3+75	
S	9.4	509.2
cb	9.3	509.3
1/4	9.0	509.6
+1	9.6	509.0
¢	8.7	509.9
1/4	9.5	509.1
+2	8.3	510.3
cb	8.4	510.2
N	8.3	510.3



518.64

3450

N	12.4	506.2
cb	12.5	506.1
+8	12.3	506.3
+9	13.1	505.0
1/4	13.2	505.4
q	12.5	506.1
1/4	13.2	505.4
cb	13.1	505.5
S	12.9	505.7

-12.97 505.67

+0.53

H.I. 506.20  
3425

S	4.3	501.9
cb	4.0	502.2
1/4	3.7	502.5
+1	4.5	501.7
q	3.6	502.6
1/4	4.3	501.9
+v	3.4	502.8
cb	3.4	502.8
N	3.2	503.0

3700

N	6.6	499.6
cb	7.0	499.2
+9	6.9	499.3

H.I. 506.20

71

1/4	5.0	498.2
q	7.4	498.8
+9	7.9	498.3
1/4	7.3	498.9
cb	7.2	499.0
S	7.1	499.1

2+75

S	11.3	494.9
cb	11.3	494.9
+9	11.1	495.1
1/4	11.8	494.4
q	11.0	495.2
1/4	11.6	495.6
+v	10.5	495.7
cb	10.6	495.6
N	10.5	495.7

-13.16 493.04

4047

H.I. 493.51

2+50

N	2.7	490.8
cb	2.3	491.2
+8	2.0	491.5
1/4	2.9	490.6
q	2.0	491.5



H.I. 49351

4g	2.6	490.9
1/4	2.1	491.4
cb	2.5	491.0
S	2.7	490.8
	2+25	
S	5.7	487.8
cb	5.6	487.9
1/4	5.5	488.0
+1	6.3	487.2
\$	6.2	487.3
1/4	6.8	486.7
+2	6.0	487.5
cb	6.2	487.3
A	6.3	487.2
	2+100	
N	11.7	481.8
cb	11.1	482.4
1/4	10.7	482.8
\$	10.1	483.4
1/4	10.4	483.1
cb	10.1	483.4
S	10.5	483.0
T.P		-13.14 480.37

+0.45

H.I. 480.82

H.I. 480.82

72

	1+75	
S	1.0	479.8
cb	1.2	479.6
1/4	1.5	479.3
\$	1.0	479.8
1/4	1.7	479.1
cb	3.0	477.8
N	3.2	477.6
	1+50	
N	6.6	474.2
cb	6.1	474.7
1/4	5.2	475.6
\$	4.5	476.3
1/4	5.0	475.8
cb	4.9	475.9
S	4.6	476.2
	1+25	
S	7.0	473.8
cb	7.5	473.3
1/4	7.9	472.9
\$	7.7	473.1
1/4	8.1	472.7
cb	8.6	472.2
N	8.9	471.9
	1+00	
N	10.7	470.1



H.I. 480.8

cb	10.5	470.3
1/4	10.4	470.4
+1	11.4	469.4
ϕ	10.7	470.1
+9	10.9	469.9
1/4	10.2	470.6
cb	10.1	470.7
5	9.7	471.1
	0.75	
5	11.8	469.0
cb	12.1	468.7
1/4	12.6	468.2
+1	13.5	467.3
ϕ	13.2	467.6
1/4	13.9	466.9
+1	12.9	467.9
cb	12.7	468.1
1	12.9	467.9
T.P.		-1297 467.85

+1.44

H.I. 469.29

0.50  
4.5

N		464.8
cb	40	465.3
+5	37	465.6
+7	57	463.6

H.I. 469.29

73

1/4	5.4	463.9
ϕ	4.4	464.9
1/4	4.8	464.5
+1	3.8	465.5
cb	3.5	465.8
5	3.3	466.0
	0.25	
5	6.1	463.2
cb	6.6	462.7
1/4	7.1	462.2
ϕ	7.6	461.7
1/4	8.0	461.3
cb	8.7	460.6
+4	9.3	460.0
+5	7.6	461.7
N	7.9	461.4
	E.L. Lois = 0.00	
	B.M. S.W. B.P. Lois & Vista	-7.50 461.79

Correct  $\frac{461.82}{0.03}$ 

Note - For E.L. Lois & Lois & Vista Intersection - see  
X-section of Extension of Lois St. toward Murray  
Dam - Page 39 - Book 1337

E.L. Lois = 0.00



4-15-29 X-section Vista St. Helen  
J.C. Bliss to Dora 60' wide  
Drebe + 10' cbs  
Rooney 10' 1/45

B.M. S.W. Nail in Pole - Helent Vista 52831

±11.08

H/V 53939

N.L. Helen

$\Delta$  99161  
R = 1200  
K = 194.08  
T = 97.2  
B.C. = 740940  
E.C. = 940348

$\Delta$  1851  
R = 2237  
K = 7401  
T = 3735  
B.C. = 949558  
E.C. = 1466460  
→ S Boundary  
of Kakesa  
Colony

74

4 98.37  
423.25  
75.12

709.20  
598.98  
1050

310'  
 $\Delta$  31.08'  
R = 15.0'  
T = 41.67  
K = 81.29  
B.C. = 344.91  
E.C. = 4423.45

419.12  
R = 500.00  
K = 100.53  
T = 50.12  
B.C. = 4478.37  
E.C. = 5498.70



17448  
 151624  
 85.6

$\Delta 25.9'$   
 $R = 400$   
 $T = 88.63$   
 $L = 74.56$   
 $B.C. = 1348787$   
 $E.C. = 1546240$

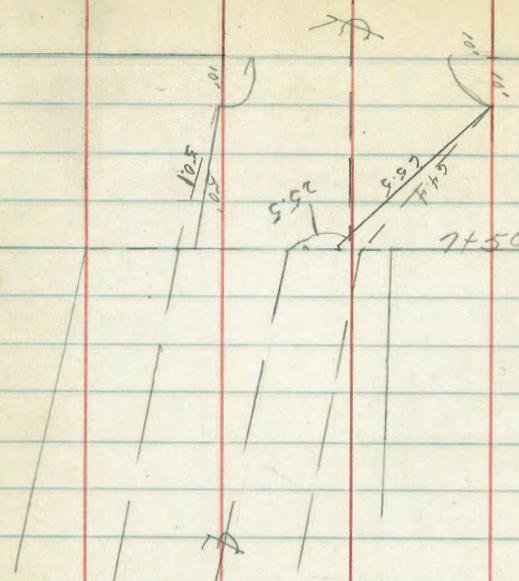
10471.66  
 8738.48  
 298.14

$\angle P$   
 $5.03' PL$   
 $1744800$

$\angle P$  in Alameda Ave  
 21400  
 100' PL

$\Delta = 1302$   
 $R = 500$   
 $T = 57.48$   
 $L = 111.43$   
 $B.C. = 1472146$   
 $E.C. = 118609$

$7 + 50 = 8 + 38.48$





4-20-29  
J.C. Bliss  
pre-  
Ranger

X-section - Alice St - El Cajon to  
50' wide - 10' obs - 7 1/2' / 45

Hl. 456.50

76

B.M. S.W. Nails in Pale - El Cajon & Alice

455.63

cb

1.45

452.0

+0.87 456.50

45

4.8

451.7

B.M. S.W. B.P. El Cajon & Alice

-2.83

453.67

E

4.3

452.2

Hl. 456.50

0+75

N.L. El Cajon = 0+00 - Pared

E

4.7

451.8

W

3.8

452.7

cb

5.0

451.5

Top

3.92

452.58

♀

4.6

451.9

G

4.08

452.42

cb

5.1

451.4

1/2

3.68

452.82

W

4.6

451.9

♀

3.34

453.16

1+00

1/4

3.40

453.10

W

5.1

451.4

G

3.56

452.94

cb

4.9

451.6

Top

2.89

453.61

♀

4.8

451.7

E

2.8

453.7

cb

5.6

450.9

E

+2.5

3.5

453.0

E

5.5

451.0

±8

4.6

451.9

E

1+25

5.7

450.8

cb

4.1

452.4

cb

6.0

450.5

♀

3.8

452.7

♀

5.4

451.1

cb

4.8

451.7

cb

6.1

450.4

W

4.0

452.5

W

5.3

451.0

0+50

1+50

W

4.6

451.9

W

5.7

450.8

cb

5.1

451.4

cb

6.8

449.7

♀

4.7

452.3

♀

5.8

450.7



H.I. 456.50

cb	6.4	450.1
E	5.9	450.6
	1475	
E	6.4	450.1
cb	6.5	450.0
‡	6.2	450.3
cb	7.2	449.3
W	6.5	450.0
	2400	
W	6.9	449.6
cb	7.1	449.4
‡	6.2	450.1
cb	6.7	449.8
E	6.6	449.9
	2425	
E	6.8	449.7
cb	6.7	449.8
‡	6.6	449.9
cb	7.3	449.2
W	7.3	449.2
	2450	
W	7.8	448.7
cb	7.6	448.9
‡	6.8	449.7
cb	6.8	449.7

H.I. 456.50

E	6.5	450.0
	2475	
E	6.7	449.8
cb	7.0	449.5
‡	7.0	449.5
cb	7.9	449.6
W	8.0	448.5
	3410 = S.L. Santiago - 60' Wide 10' x 5 10' x 4.5	
W	8.3	448.2
cb	7.6	448.9
‡	7.9	448.6
‡	6.9	449.6
cb	7.1	449.4
E	6.1	450.1
T.P.		-6.89 449.61
	4338	
	H.I. 452.99	
	8 cb - Santiago	
E	3.1	449.9
cb	3.7	449.3
‡	3.4	449.6
cb	3.7	449.3
W	4.6	448.4
	‡ Santiago	
W	4.4	448.6
cb	4.4	448.6



H.I. 45299

♀		34	449.6
cb		37	449.3
E		28	450.2
	N cb Santiago		
E		31	449.9
cb		37	449.3
♀		35	449.5
cb		41	448.9
W		42	448.8
	N.L. Santiago		
W		44	448.6
cb		41	448.9
+5		44	448.6
♀		35	449.5
cb		39	449.1
E		29	450.1
	0+25		
E		31	449.9
cb		39	449.1
♀		35	449.5
+11		43	448.7
cb		38	449.2
W		40	449.0
	0+50		
W		44	448.6

H.I. 45299

78

cb		43	448.7
♀		36	449.4
+12		44	448.6
cb		41	448.9
E		36	449.4
	0+25		
E		35	449.4
cb		37	449.3
+3		45	448.5
♀		37	449.3
+11		43	448.7
+13		34	449.6
cb		34	449.6
W		38	449.2
	1+00		
W		40	449.0
cb		38	449.2
+2		38	449.2
+4		46	448.4
♀		40	449.0
+12		48	448.2
cb		39	449.1
E		41	449.9
	1+25		
E		44	448.6



H. 1. 452.99

cb	5.0	448.0
£	4.2	448.8
+10	5.0	448.0
+13	4.1	448.9
cb	4.0	449.0
w	4.2	448.8
1+50		
w	5.4	447.6
cb	5.3	447.7
£	4.6	448.4
cb	5.3	447.7
E	4.9	448.1
1+75		
E	5.3	447.7
cb	5.4	447.6
£	4.9	448.1
+12	5.5	447.5
cb	4.8	448.2
w	5.4	447.6
2+00		
w	4.8	448.2
cb	4.9	448.1
+5	5.8	447.2
£	5.2	447.8
cb	5.5	447.5

Note 1+75 to 3+20

H. 1. 452.99		
E	5.4	447.6
2+25		
E	5.6	447.4
cb	5.9	447.1
£	5.5	447.5
cb	6.1	446.9
w	5.6	447.4
2+50		
w	5.7	447.3
cb	6.1	446.9
+5	6.4	446.6
£	5.8	447.2
+10	6.2	446.8
cb	5.8	447.2
E	5.9	447.1
2+37: £8' Granite Drive 1' in St. Genith.	5.50	447.50
2+53: £2' " Walk 1' in St. Genith. E.L.	5.87	447.13
2+83 £3' " " R. Beck W.L. 1' in St. Genith.	5.68	447.32
3+00		
E	6.3	446.7
cb	6.8	446.2
£	6.5	446.5
+10	7.0	446.0
cb	6.1	446.9
w	6.0	447.0

79



H. 452.99

3420 = S.L. Vista

W	6.3	446	7
Cb	6.4	446	6
+5	6.6	446	4
+8	7.6	445	4
±	7.7	445	8
cb	7.7	445	3
E	7.1		
S. c. b. Vista			
W	7.1	445	9
cb	8.0	445	0
±	7.5	445	5
+5	7.9	445	1
cb	6.8	446	2
W	6.4	446	6
± Vista			
W	6.7	446	3
cb	7.6		
±	8.0	445	0
cb	7.7	445	3
E	7.7	445	3
N. c. b. Vista			
E	7.7	445	1
cb	8.0	445	0
±	8.3	444	7
cb	8.1	444	3
W	8.0	445	0
N.L. Vista			
W	9.3	443	7
cb	10.8	442	2
±	12.9	440	1
H10	8.3	444	7
cb	7.9	445	1
E	7.8	445	2

B. M. S. W. N. A. L. S. Vista & Alice -5.80 447.19

Correct 447.20

.01

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

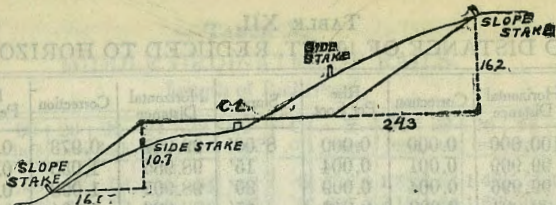
Distance of slope stake from side or shoulder stake for any width roadway, slope 1 1/2 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not nearly level, the side stake and slope stake, lower target by this amount if cut, higher if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point and line of sight to level cut target. If necessary.

**IMPROVED TABLES  
AND  
INFORMATION**

TABLE No. 2.

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.





DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/4 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

Computed by L. Leland Locke.

0750  
5 £ W  
6.9 58 3.1



160  
140  
320  
0903  
320  
18060  
2709  
28890

ENGINEERING DEPARTMENT,  
CITY OF SAN DIEGO,  
CALIFORNIA.

510  
1020  
290  
205  
0286  
980  
22880  
2574  
280280

0135  
2380  
10800  
405  
270  
321300

#1 Curve  
280 Outside  
25.3 Inside

#2  
346 Outside  
32.4 Inside  
#3

1387.87  
1186.09  
2201.78

4.43

0286  
980  
22880  
2374  
210250  
38681

205  
2400  
0823  
430

0135  
2420  
2700  
540  
270  
326700  
355800

86-43

480.11  
5.87  
486.04  
1.63  
484.41  
6.36  
490.77  
13.16  
477.61  
0.83

498.44  
3.10  
200

0558  
580  
44640  
2790  
343640

2985

0364  
780  
29120  
2548  
283920

498.37  
341.96  
756.71

0558  
620  
11160  
3348  
345960  
1748  
838

4.38  
0364  
820  
7280  
2912  
298480  
46

46