

Gr. 170

LEVEL BOOK

No. 380

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

- No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.
- No. 382 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 4 x 4 to the inch, Center Line Red.
- No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 6 x 6 to the inch, Center Line Red.
- No. 385 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 8 vertical and 4 horizontal lines to the inch, Center Line Red.

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

In ordering Fabri-Hide covered books, add the letter "F" to catalog number.

THE FREDERICK POST CO.

ENGINEERING and DRAFTING SUPPLIES

IRVING PARK STATION

CHICAGO, ILL.

MICROFILMED

APR 9 1965

Andrew KP 26 - 2/3/2009

Bill Bliss Notes
 Joe Diermit T
 J. Jacobsen
 C. Morgan
 Jan 1930
 B.M.

Water Grades El Cajon Blvd
 from Campo Drive to Victoria

Note
 For check the
 Survey. See
 F Book 1376

		5.53	457.99		452.46	S.W.B.P. Cajon Planda	
0+00	C.I.V. 54.70 west of Wine Campo Drive		5.52	452.47	447.70		4.8 -
1-73 ⁵⁰							
#1	45°00'00" C.I. Bend		5.44	452.55	449.00		3.6 -
3-100							
#1			5.70	452.29	448.67		3.6 -
#2			5.96	452.03	448.33		3.7 -
#3 Brk			6.32	451.67	448.00		3.7 -
3-68							
#1			7.28	450.71	447.53		3.2 -
#2	0.39	451.38	7.00	450.99	447.06		3.9 -
#3 Brk			1.34	450.04	446.60		3.4 -
4-60							
#1			3.48	447.90	443.73		4.2 -
#2			6.30	445.08	446.86		4.2 -
#3			9.32	442.06	438.00		4.1 -
#4 Brk	0.30	439.05	12.63	438.75	435.10		3.7 -
1-84							
#1 Brk			3.67	435.38	432.00		3.4 -
1-84							
#1 Brk			4.77	434.28	430.70		3.6 -
1-84							
#1 Brk			3.94	435.11	431.60		3.4 -
1-84							

H.I.
439.05

#1 Brk	11.92	449.87	7.10	437.95	434.70	3.3-
4-60						
#1			9.05	440.82	437.50	3.3-
#2			5.99	443.88	440.30	3.6-
#3			3.06	446.81	443.10	3.7-
#4 Brk	8.39	457.63	0.63	449.24	445.90	3.3-
2-60						
#1			6.63	451.00	447.15	3.9-
#2 Brk			5.64	452.00	448.40	3.6-
2-71.37						
#1			4.79	452.84	449.00	3.8-
#2 ^{22x30" 0.1 Brk}			4.30	453.33	449.60	3.7-
1-81.20						
#1 ^{8x10" 0.2 Brk}	6.33	460.66	3.30	454.33	449.60	4.7-
1-49						
#1 C.I. ^{3x2}			7.81	452.85	450.80	2.1
1-85						
#1 Brk			5.32	455.34	452.00	3.3-
10-76						
#1			4.92	455.74	452.27	3.5-
#2			4.35	456.31	452.54	3.8-
#3			4.03	456.63	452.81	3.8-
#4			3.87	456.79	453.08	3.7-
#5	4.66	461.60	3.72	456.94	453.35	3.6-
#6			4.42	457.18	453.62	3.6-

Continued Page (20)

Water Grades Victoria St from
E/Cajon to Visto

4

SWBP Cajon
Blvd. Victoria

B.M.	8 13	464.88	456.75	
0+00	30° 00' 00" 0.2 band E/Cajon		8.36	456.52 - 452.60
3-52				
#1			7.49	457.39 - 453.40
#2			6.81	458.07 - 454.20
#3	8x8" 525.0' wood 0.2 700 B.K.		5.30	459.58 - 455.00
3-61 87				
#1			3.76	461.12 - 456.53
#2			1.72	462.16 - 458.06
#3	8x6" 0.2 700 B.K. Santiago 2.10	466.63	0.35	464.53 - 459.60
1-40				
#1	B.K.		1.94	464.69 - 459.80
3-51 87				
#1			2.97	463.66 - 458.67
#2			4.57	462.06 - 457.54
#3	8x6" 0.2 700 For Alley Pump East		5.91	460.72 - 456.4
3-55				
#1			7.51	459.12 - 455.27
#2			7.34	459.29 - 454.14
#3	3 Line B.K. of Visto		8.30	458.33 - 453.00
1-20				
#1	8x6" 0.2 X. Visto		8.72	457.91 - 453.60

Fire Hy. Stake

Cajon Blvd. Victoria

W Side
Elev Grade
457.05

464.88 H.I.
~~7.05~~
457.20 Elev Stake
457.20 Elev Stake
0.00 grade

Fire Hy. Stake

W Side Victoria + Santiago

469.09
6.71
462.38
462.50
F 0.12

464.88 H.I.
0.99
463.89 Elev Stake
463.00 " grade
0.89

Fire Hy. Stake

Victoria + Visto

466.63 H.I.
3.39
458.24 Elev Stake
456.80
0.144

Water Main Santiago St. Victoria
to Alice
+ H.I. - Elev Elev Grade Cut

5

	H.I.		Elev	Elev Grade	Cut	
0+00 Victoria Santiago	465.20		464.53	459.60	4.9-	
1+40						
#1 Brk		2.42	462.78	459.60	3.2-	
3-68						
#1		3.48	461.72	457.92	3.8-	
#2		4.61	460.59	456.24	4.4-	
#3		6.34	458.86	454.56	4.3-	
#4		8.12	457.08	452.88	4.2-	
#5 Brk	4.05	458.00	11.25	453.95	451.20	2.8-
2-50						
#1		6.87	451.13	449.10	2.0-	
#2 Brk		8.64	449.36	447.00	2.4-	
4-60						
#1		8.58	449.42	447.00	2.4-	
#2		7.57	450.43	447.00	3.4-	
#3		5.27	452.73	447.00	5.7-	
#4 w/line Olive Brk		5.15	452.85	447.00	5.9-	
4-70						
#1		5.35	452.65	448.62	4.0-	
#2		3.80	454.20	450.24	4.0	
#3	471	461.08	1.63	456.37	451.86	4.5-
#4 Brk		3.44	457.64	453.5	4.1-	
1-80						
#1 Brk		3.06	458.02	453.3	4.7-	

Fire Hy Stake
Olive + San 1890 S. Elev.

458.00 H.I.
5.15 -
452.85 Elev Stake
450.40 " Grade
62.45

+ . .

H.I.
461.08

-

Elev

6

5-50

#1	524	455.84	451.78	4.1
#2	746	453.62	450.26	3.4
#3	908	452.00	448.74	3.3
#4	1009	450.99	447.22	3.8
#5 Bit W. line of Alice Ends 6x 1/2 c 3 2/9	1087	450.21	445.70	4.5

Fire Hy. Stake

Santiago + Alice S.E. Cor.

461.08 H.I.

10.70 -

450.38 Elev Stake

449.20 " Grade

11.18

Vista St West of Victoria

Water Grades

+ HZ - E.L.

Station	Distance	Grade	Start	End
0400 Vista Victoria		458.63	457.91	453.60
3-53			436	454.27 - 451.00
#1			7.32	451.31 - 448.40
#2			9.08	449.55 - 445.80
#3 Brk				
7-71			11.03	447.60 - 444.92
#1	210	450.40	10.33	448.30 - 444.05
#2			1.18	449.22 - 443.18
#3			1.69	448.71 - 442.31
#4			3.29	447.11 - 441.44
#5			5.49	444.91 - 440.57
#6			7.08	443.32 - 439.70
#7 Brk				
1-60			8.24	442.16 - 439.80
#1 Brk				
5-80			5.82	444.58 - 440.88
#1	867	455.01	4.06	446.34 - 441.96
#2			7.39	447.62 - 443.04
#3			5.29	449.72 - 444.1
#4			4.49	450.52 - 445.20
#5 Brk			5.42	449.59 - 444.40
3-70				
#1	369	450.57	8.13	446.88 - 443.60
#2			5.36	445.21 - 442.80
#3 Brk				

+ HZ - Elev
450.57

17

70.616 453.71 3.02 447.55
4.3 - Checkrod San Diego St. c.z. 3.48 450.23 = 450.21

3.3 -

Fire Hydrant Stake

2.9 -

Vista + Olive

3.8 -

450.40 H.Z.

7.08 -

443.32 Elev Stake

443.00 " Grade

c.o. 32 -

2.7 -

4.3 -

6.0 -

6.4 -

5.7 -

4.3 -

3.6 -

2.4 -

3.7 -

4.4 -

4.6 -

5.6 -

5.3 -

5.2 -

3.3 -

2.4 -

Fire Hydrant Stake

Vista + Alice

450.57 H.Z.

4.50 -

446.07 Elev Stake

445.40 " Grade

c.o. 67

Water Grades Vista East of
Victoria

	+	H.I.	-	Elev	Elev Grade	cut
0700 5X6" c. 2 X Vista + Victoria	2.68	470.59		457.91	463.60	4.3 -
2-70						
#1			5.81	464.78	458.80	6.0 -
2- Brk	6.31	476.67	0.23	470.36	464.00	6.4 -
1-100						
#1 Brk			4.70	471.97	467.20	4.8 -
3-73 ³³						
#1			5.87	470.80	467.60	3.2 -
#2			5.34	471.33	468.00	3.3 -
#3 Brk			3.50	473.17	468.40	4.8 -
1-80						
#1 Brk			3.14	473.53	466.00	7.5 -
2-50						
#1			5.13	471.54	461.95	9.6
T.P.	7.39	471.52	12.54	464.13		
2- Brk			10.18	461.34	457.90	3.4 -
1-50						
6X6" c. 2 na. 10m st #1 22" 30" c. 2 Bend c. 2. 30m			10.77	460.75	457.50	3.3 -
Checkout Alky Gate Valve South of Vista			0.28	471.24	= 471.24	

Fire Hq. S.E. Cor

Vista 1/2 mile

471.52 H.I.

9.12 -

462.40 Elev Existing

462.20 c.b. Plan Grade

0.20 Discrepancy

Water Grades in Alley Blocks
 3, 6, 9, 12, 15 & 18 La Mesa Colony
 Between Cajon & Ramona Sts

BM	236	456.06	453.70	SW 3 P Amherst & Cajon Blvd	
0000	8x6" C.I. Tee Amherst		4.58	451.48	448.20 3.28 -
1-20 1/2					
41 Brk			5.30	450.76	448.70 2.06 -
8-80 1/2					
#1			5.32	450.74	448.96 1.78 -
#2			3.55	452.51	449.23 3.28 -
#3	TP. 331	457.53	1.84	454.22	
#4			3.78	453.75	447.49 4.26 -
#5			3.84	453.69	449.76 3.93
#6			5.27	452.26	450.02 2.2 -
#7			4.86	452.67	450.28 2.4 -
#8			4.23	453.30	450.54 2.8 -
#8 Brk	W. line of Olive 6.04	460.69	2.88	454.65	450.80 3.9 -
7-77 1/2					
#1			5.92	454.77	451.37 3.4 -
#2			5.38	455.31	451.94 3.4 -
#3			4.78	455.91	452.51 3.4 -
#4			4.02	456.67	453.08 3.6 -
#5			3.40	457.29	453.65 3.6 -
#6	3.70	461.10	3.29	457.40	454.22 3.2 -
#7 Brk			3.44	457.66	454.80 2.9 -
2-70					
#1			4.61	456.49	453.25 3.2 -
#2 Brk			6.62	454.48	451.70 2.8 -
3-60					

Fire Hy. Olive &
 Alley. S. of Cajon
 H.I. 460.69
 593 -
 Elevation 454.72
 Elev Grade 453.60
 Cut 1.16

H.I.
461.10

Elev. Grade

#1	ELms Victoria		6.56	454.54	451.86	2.7	
#2			6.44	454.66	452.03	2.6-	
#3 Brk	9.34	465.31	5.13	455.97	452.20	2.8-	
1-100							
#1 Brk			5.13	460.18	456.00	4.2-	
6-73 ³³							
#1			5.21	460.10	456.40	3.7-	
#2			5.49	459.82	456.80	3.0-	
#3			4.51	460.80	457.20	3.6-	
#4			4.05	461.26	457.60	3.7-	
#5			3.54	461.77	458.00	3.8-	
#6	6x6" Brk O.I.X. Laisf.	8.63	470.66	3.28	462.03	458.40	3.6-
3-73 ³³							
#1			7.70	462.96	459.50	3.5-	
#2			6.68	463.98	460.60	3.4-	
#3 Brk			5.75	464.91	461.7	3.2-	
3-80							
#1			5.88	464.78	462.03	2.8-	
#2			6.16	464.50	462.37	2.1-	
#3 Brk			4.84	465.82	462.7	3.1-	
3-80			3.50	467.16			
#1			3.56	467.16	464.43	2.73-	
#2	10.11	479.28	1.49	469.17	466.16	3.01-	
#3 Brk	ELms of Helen St		6.80	472.48	467.90	4.6-	
1-80							

Fire Hy. Helen

Alley S. of Cojon

479.28 HI

7.20-

472.08

490.40

01.68

HI
479.28

1-80						
#1 Brk			4.49	474.79	470.40	4.4-
3-73 ³³						
#1			4.91	474.37	470.80	3.6-
#2			5.58	473.70	471.20	2.5-
#3 Brk	9.92	483.90	5.30	473.98	471.60	2.4-
3-80						
#1			8.64	475.26	472.86	2.40-
#2			6.62	477.28	474.13	3.15-
#3 Brk			5.59	478.31	475.40	2.9-
4-70						
#1			6.25	477.65	474.68	2.97-
#2			7.66	476.24	473.96	2.28-
#3			7.10	476.80	473.23	3.57-
#4 Brk			7.18	476.72	472.50	4.2-
2-60						
#1	1.48	475.04	9.54	474.36	468.15	6.21-
#2 Brk			9.50	466.34	463.80	2.54-
2-62 ⁵⁰						
#1			9.40	466.44	463.40	3.04-
#2 Brk			11.12	464.72	463.00	1.72-
468 ⁷⁵						
#1			6.78	469.06	464.90	4.16-
#2	10.63	481.90	4.57	471.27	466.80	4.47-
#3			11.16	470.74	468.90	2.04-
#4 Brk			7.00	474.90	470.60	4.30-

Fire Hy. Dorost
A Hwy. South of Cajon
Bird

483.90 HI
8.13 -
475.77 Elev Station
477.90 " " Grade
F 2.15

E Line
of Harbinger

see page 23

EXC 40.372
20' W of the E
line of Johnson

Water Grades Ramona St West of
Lois

6x6" Tee of 00 Ramona St	6.76	465.33	458.57	455.00	3.6-	
9-80						
#1		7.45	457.88	454.36	3.5-	
#2		7.73	457.60	453.74	3.9-	
#3	3.91	460.66	8.58	456.75	453.12	3.6-
#4		4.48	456.18	452.50	3.7-	
#5		4.19	456.47	451.88	4.6-	
#6		4.97	455.69	451.26	4.4-	
#7		5.58	455.08	450.64	4.4-	
#8		6.32	454.34	450.02	4.3-	
#9 Brk. Victoria W. Line		7.29	453.37	449.40	4.0-	
6-80						
#1	4.85	457.62	7.89	452.77	449.10	3.7-
#2		5.59	452.03	448.82	3.2-	
#3		5.68	451.94	448.54	3.4-	
#4		5.60	452.02	448.26	3.8-	
#5		5.56	452.06	447.98	4.1-	
#6 6" x 2" Pipe		6.29	451.33	447.70	3.6-	
check out Break on the W. line of Olive		2.99	454.63	454.65		
			= 0.02 error			

Fire Hy. Ramona
& Victoria N.E. Cor

460.66 HI

472-

455.94 Elev. Stake

453.50 Elev. Grade

2.44 cut

Water Grades Lois St. Cajon
Blvd to Ramona

BM.					cuts
	3.30	465.33	462.03	716 out stub 6x12 cross Along S. of Cajon	see page 10. X of Lois St
0+00	Connect to S. of Cajon Blvd	1.03	464.30	461.50	2.8-
5-62'					
#1		1.11	464.22	460.26	3.9-
#2		2.67	462.66	459.02	3.6
#3		3.78	461.55	457.78	3.7-
#4		5.38	459.95	456.54	3.4
#5	N. line of Ramona	5.70	459.63	455.30	4.3-
1-46					
#1	6x6 0.27 to Ramona	6.76	458.57	455.00	3.6-

F. Hy. Stake S.E. Cor. Lois
+ E. of Cajon Blvd

464.80 BM
529
469.59 ELEV. 464.59 Hz
460 SCH. LINE
464.95 ELEV. 471
462.50
464.88 Elev Stake
464.70 Elev Grade
c 0-18

Water Grades Alley Block 58,
 1/2 14 + 17 La Mesa Canyon between El Cajon
 + San Diego

	+	H2	-	Elev Stake	Elev Grade see paper	cut
EXECUTIVE 0700 Victoria	6.09	465.67		459.58	455.00	4.6-
4-80						
#1			6.12	459.55	455.37	4.2-
#2			6.19	459.48	455.75	3.7-
#3			6.07	459.60	456.12	3.5-
#4 Brk			4.97	460.70	456.50	4.2-
5-64						
#1			3.70	461.97	458.44	3.6-
#2	8.13	471.80	2.00	463.67	460.38	3.3-
#3			7.14	464.66	462.32	2.3-
HV			4.46	467.34	464.26	3.1-
Gate valve W line of 1188 #5 Lois 5 ft x 2 cross is already in	480.72	2.96	468.84	466.20	2.6	
1-60						
#1 Brk Gate valve 2 inches			11.33	469.39	465.80	3.4-
2-60						
#1			12.18	468.54	466.30	2.2-
#2 Brk			10.59	470.13	466.80	3.3-
2-80						
#1			6.12	474.60	470.25	4.35-
Lv Brk			2.77	477.95	473.70	4.25-
3-80						
#1			2.83	477.89	474.20	3.7-
HV			3.94	476.78	474.70	2.1-
#3 Brk			1.33	479.39	475.20	4.2-

H.I.
480.72

15

1-100 T.P.	6.39	486.09	1.02	479.70	-
#1 Brk	W. line of Helen		4.12	481.97	476.60 5.4-
2-80					
#1			5.27	480.82	476.90 3.92-
#2			5.70	480.39	477.20 3.19-
1-80					
#1 Brk	12.76	496.64	2.21	483.88	480.20 3.7-
1-60					
#1 Brk			8.08	488.56	485.00 3.56-
1-80					
#1 Brk			5.86	490.78	487.60 3.18-
5-72					
#1			5.88	490.76	487.16 3.60-
T.P.	3.40	495.21	4.83	491.81	-
#2			5.59	489.62	486.72 2.90-
#3			5.89	489.32	486.28 3.04-
#4			5.32	489.89	485.84 4.05-
#5 Brk	E. line of Dora 463	494.52	5.32	489.89	485.40 4.44 ✓
4-65					
#1			6.78	487.74	485.65 2.09
#2			6.72	487.80	485.90 1.90-
#3			5.34	489.18	486.15 3.03-
#4 Brk			4.75	489.77	486.40 3.4-
2-60					
#1			7.33	490.19	486.30 3.89-
#2 Brk			4.82	489.70	486.20 3.50-

Fire Hy. Helen St +
Ally. North of Cajon Blvd
486.09 H.I.
4.86 -
481.23 Elev. Stake
479.60 " Grade
cut 1.63 -

Fire Hy. Stake Dora
+ Ally N. of Cajon Blvd
495.21 H.I.
5.66 -
489.55 Elev. Stake
487.90 " Grade
61.65

HZ
49452

16

3-80

#1 6.84 487.68 484.94 2.74-

#2 9.04 485.48 483.68 1.80

#3 B.K 8.21 486.31 482.40 3.91-

1-40

#1 5' x 6" G.I. Tee
20' West of the
E. line of Isabelle 7.05 487.47 482.60 4.8

= 487.47

Water Grades Alley Blocks 7
 10, 13, 16 La Mesa Colony Between San Diego
 + Vista

cut

8x6" O.Z. Tee				See page 4	
0100 Vateria	12.66	473.38	460.72	456.46	4.3-
1-20					
#1 Br.K		12.03	461.35	457.40	4.00-
1-80					
#1 Br.K		3.34	470.02	466.30	3.7-
1-60 T.P.	7.49	480.61	0.26	473.12-	
#1 Br.K		7.00	473.61	468.90	4.7-
5-68					
#1		7.74	472.87	469.64	3.2-
#2		6.79	472.82	470.38	3.7-
#3		5.10	475.51	471.12	4.4-
#4		4.35	476.26	471.86	5.4
#5 Br.K		4.82	475.79	472.60	3.2-
1-100					
#1 Br.K		5.70	474.91	471.40	3.5-
1-40					
Gate valve W. line of					
#1 Br.K 1015 ST 12.64	483.88	9.37	471.24	467.50	3.7-
1-60					
Gate valve					
#1 E. line of hors		12.76	471.12	468.47	2.65-
1-20					
#1 Br.K		10.53	473.35	466.80	6.55-
3-73.33					
#1		6.97	476.91	472.87	4.04-
#2		0.89	482.99	478.94	4.05-

		483.88		Elev. Stake	Elev. Grade	cut
TP	13.14	496.80	0.22	483.66		
#3 Brk			7.44	489.36	485.00	f.4-
1-100 TP	13.16	509.34	0.62	496.18		
#1 Brk			6.88	502.46	498.60	3.86-
1-80						
#1 Brk			3.51	505.83	504.20	1.63-
1-100						
#1 Brk	10.43	518.30	1.47	507.87	507.50	0.37-
2-80						
#1			6.00	512.30	508.30	4.00-
#1 Brk			6.17	512.13	509.10	3.03-
2-60						
#1			7.56	510.74	509.90	0.84-
#1 Brk			6.89	511.41	510.70	0.71-
1-100 TP	9.47	527.32	0.45	517.85		
#1 Brk			5.33	521.99	518.60	3.40-
1-60						
#1 Brk			4.42	522.90	520.00	2.9-
5-76						
#1			5.47	521.85	519.14	2.71-
#2			6.44	520.88	518.28	2.6-
#3			7.41	519.91	517.42	2.49-
#4			9.08	518.24	516.56	1.68-
#5 Brk	6x6" c-2.70x Dora St. 975	531.47	5.60	521.72	515.70	6.02
2-70						
#1			10.01	521.46	517.00	4.5-

Fire Hy Stake
Helen & Alley N. of
Santiago 509.8

HZ 518.30

- 7.31

Elev. Stake 510.99

" Grade 509.80

0.19

New location Hydt. = 8' S. St. Alley

Elev. Grade old location = 509.80

cut = 1.19

510.99 = Elev. Stake

2.34+

515.93

4.02 = Rod mark height

511.91 = Elev. Stake

510.75

cut = + 1.16

HZ
531.47

Elev. Store Elev. Grade

cut

19

#2 Brk 1012 521.35-518.30 3.05-

1-100

#1 Brk 563 525.84-522.60 3.24-

1-60

#1 Brk 434 527.13-524.00 3.13-

1-60

#1 Brk 455 526.92-520.20 6.72-

1-60 TP 0.08 518.71-1284 518.63-

#1 Brk 2.94 515.77-511.00 4.77-

2-50

#1 1.26 507.84 12.13 506.58-501.00 5.58-

#2 Brk 0.39 496.01 12.22 495.62-491.00 4.62-

3-40

#1 6.89 489.12 485.04 4.08-

#2 1.26 484.60 12.67 483.34 479.08 4.26-

#3 Brk ^{W. line} of Isabelle 574 478.86-473.10 5.76-

1-40

#1 Brk <sup>EXC'PT
Toe 20' W of the
E line of Isabelle</sup> 962 474.98-472.00 2.98-

Water Grades Cajon Blvd
Continued from page 3
H.I.
4/6/60

20

10-76 ³			4.09	457.51	453.84	3.6-
#7			4.34	457.26	454.16	3.1-
#8			4.53	457.07	454.43	2.6-
#9			4.03	457.57	454.70	2.9-
#10 Brk						
8-62 ⁵⁰						
#1	3.93	461.81	3.72	457.88	454.44	3.4-
#2			4.07	457.74	454.18	3.5-
#3			4.26	457.55	453.82	3.7-
#4			4.30	457.51	453.56	3.9-
#5			4.36	457.45	453.30	4.2
#6			4.51	457.30	453.04	4.3-
#7			4.66	457.15	452.77	4.4-
#8			5.30	456.51	452.60	3.9-
Check 8/1			5.05	456.76	456.75	0.01 error

EX CB →
NW Cor Cajon
& Olive

462.20 HI
5.27-

456.93

Fire Hy Stake NW Cor

E/Cajon Blvd Olive

457.40 B.M. Olive

4.80 +
462.20 HI

5.33 -

456.87 Elev Stake

456.80

0.07

SW 8P

Cajon + Victoria

Water Grades Amherst St
Cajon Blvd to Ramona

21

BM.				SWBP Amherst St & Cajon Blvd	
	2.36	456.06	453.70		
8" x 10' C.I. Tee 0700		1.73	454.33	449.60	4.7-
1-13					
#1 C.I. Bend		1.72	454.34	449.60	4.7-
1-27					
#1 B.K.		2.35	443.71	449.60	4.1-
2-7980					
#1		3.45	452.61	448.90	3.7-
8x6' C.I. Tee # ~ Alky S of Cajon		4.58	451.48	448.20	3.3-
2-79					
#1		6.94	449.12	445.60	3.5-
# w C.I. Plug. Near Ramona		9.82	446.24	443.0	3.2
Firefly Stake S.E. Cor Ramona & Amherst		6.46	449.60	447.00	0.2.60

Water Grades Dora St. from the
S line of Vista

	+	HI	-	Elev Stake	Elev Grade See Page 18	
0400	6" x 6" C. Steel 12.32 Dora St. 1/4 by S. Vista	534.04		521.72	515.70	6.02
1-65						
#1 Brk			6.56	527.48	521.50	6.00
2-50						
#1			4.30	529.74	523.75	6.00
#2 Brk	6" x 6" C. Steel S line of Vista		4.29	529.75	526.0	3.8

F. Hy. Stake Dora Vista

S.W. Cor. Elev 528.60

HI 534.00

+ 2.65

Elev Stake 531.39

Elev Grade 528.60

62.79

Water Grades, Isabella St N Line
of Ramona to the S Line of Vista

		481.90	see Levels in Alley S of Cajon Post			
0700	6" C.I. Plug N Line of Ramona	3.04	478.86	470.30	8.56-	
3-70						
#1		5.64	476.26	470.43	5.83-	
#2		6.35	475.55	470.57	4.98-	
#3 Brk		6.60	475.30	470.70	4.60-	
2-50						
#1		4.64	477.26	473.75	3.51-	
#2 Brk	S Line Cajon Brk	2.28	479.62	476.80	2.82-	
1-100						
#1 Brk	N Line Cajon Brk	9.67	490.72	481.05	477.50	3.55-
2-72 ⁵⁰						
#1		5.94	484.78	480.05	4.73-	
#2 Brk	8" x 10" 3" m	3.28	487.44	482.60	4.84-	
1-55						
#1 Brk		1.46	489.26	483.80	5.46-	
2-55						
#1		3.26	487.76	482.50	4.96-	
#2 Brk	S Line of Vista	4.33	486.39	481.20	5.19-	
3-71 ⁵⁷						
#1		8.75	481.97	478.13	3.84-	
#2	1.18	479.01	12.89	477.83	475.07	2.76-
#3 Brk	6" x 6" 0.27 m	4.02	474.99	472.00	2.99-	
1-95						
#1 Brk		8.42	470.59	468.80	1.79-	

E.H. Stone NW Cor
Ramona & Isabella 473.00

481.90 H.I.
534
476.56 Elev Stake
473.00 " Grade
3.56 cut

E.H. Stone SW Cor E/
Cajon & Isabella 479.60

481.90 H.I.
2.55-
479.35 Elev Stake
479.60 " Grade
F. 0.25-

E.H. Stone S.W. Cor
Santag. & Isabella Elev 484.50

490.72 H.I.
1.09-
489.63 Elev Stake
484.50 " Grade
5.13 cut

H.I.
479.01

1-80
S line of Visto
6" c & 2" hp
#1 b.w

9.83 469.18 - 466.50 2.68 -

Fire Hy Stake S.W. Cor
Elev. 470.00
Visto + Isabella

479.01 H.I.
575 -
478.26 Elev Stake
470.00 " Grade
83.26

Hugo St Grades

H.L. Plum to E.L. Clove
To Check Private Grading

INDEXED

WK

DEC 23 1948

Oct 28 1948
Moore
5300
25
Harrison

	SC6.L.	±
300 ft. E.L. Clove	126.70	126.27
275 ft. CB PC	123.10	122.85
250 ft.	119.80	119.55
230 ft.	117.50	117.20
210 ft.	115.50	115.20
190 ft.	113.90	113.60
170 ft.	112.60	112.30
150 ft.	111.50	111.20
130 ft.	110.70	110.45
110 ft. F.V.C.	110.10	109.85
67.5 ft.	109.25	109.12
25 ft. CB PC	108.40	108.40
H.L. Plum	107.50	

BM 5145
12.27
63.74
60.16
62.58
12.10
75.68
70.00
12.68
87.73
6.37
87.36
12.11
90.47
10.01
99.46
11.91
11.37
0.23
111.14
12.23
13.37
10.13
123.24
11.23
134.77
9.50
125.77 = BM 1156P
905 N 107
E Clove

Six 0.3
Miller & Garrison

SC6.L.	126.70	123.10	119.80	117.50	115.50	113.90
±	0.27	0.27	3.57	5.87	7.87	7.27
	2.1	0.18	3.57	5.7	7.20	9.4
	-0.8	7.04	7.03	7.02	7.03	
		9.07	9.33	9.66	9.81	9.10

±	126.27	122.85	119.55	117.20	115.20	113.60
	8.70	0.52	3.82	2.17	8.77	8.77
	9.3	0.2	2.02	2.4	8.5	10.1
	10.6	-0.2	-0.2	-0.3	-0.3	-0.3

SC6	112.60	111.50	110.70	110.10	109.25	108.40	107.50
	7.67	11.87	8.67	7.27	2.12	2.97	3.87
	1.07	1.8	0.2	1.2	2.2	2.93	3.6
							7.03

±	112.30	111.20	110.45	109.85	109.12	108.40
	11.07	0.17	0.92	1.52	2.25	2.97
	11.1	0.22	1.2	1.2	2.6	2.5
		-0.01	-0.3	-0.3	-0.26	-0.5

Note: S.I. Cor No Walk Between CB PCs
Note: Walk Graded 7' from c.b. line thru Slope to Top

15

78

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder
take for any width roadway, slope 1 1/2 to 1.
If ground is nearly level, the cut or fill of side
stake is located by the double entry method in
left column and top row. The number in body

IMPROVED TABLES
AND
INFORMATION

To find Tangent and External for curve of
any other degree, divide by degree of curve and
add correction found in column of correction.
Degree of curve with a given L may be found
by dividing tangent (or external) opposite L 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.

44960
04970
100

ENGINEERING DEPARTMENT,
CITY OF SAN DIEGO,
CALIFORNIA.