

LEVEL BOOK

373

W 94

KEUFFEL & ESSER CO.

DRAWING MATERIALS

AND

SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

Tables for Excavations and Embankments.

DISTANCES FROM CENTRE OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 3 FEET WIDE. SIDE SLOPES 1 TO 1.
SINGLE TRACK EXCAVATION.

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	0	.2	.4	.5	.6	.7	.8	.9	
0	9.1	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

Lower Calif 4172

Aa-Ai
Am-Aq
Ar-Az
Baa-Bam
Bam-Bea
Bee-Bis
Bis-Bor
Bor-Brf
Brt-Bz
Ca-Car
Car-Caa
Cc-Cg
Cg-Cz
Dd-Dh
Dh-Dz
Ea-Ek
Ek-Ez
Fa-Fh
Fh-Fz
Ga-Gd
Gd-Gg
Gg-Gr
Gs-Gz
Haa-Ham
Ham-Hec
Hec-Hh
Hh-Hoo
Hoo-Hz

Ia-Ih
Ih-Iz
Ja-Jd
Jd-Jh
Jh-Jz
Ka-Kd
Kd-Kh
Kh-Kz
La-Lv
Lw-Ler
Ler-Lie
Lit-Lom
Om-Oz
Pa-Pa
Pa-Pn
Pe-Ptz
Pz
Qa-Qal
Qam-Qar
Qes-Qeb
Qec-Qel
Qel-Qer
Qs-Qwh
Ql-Qwg
Qm-Qwl
Qn-Qwh
Qo-Qwz
Qy

KEU

S

CHICAGO.

Tables

DISTANCES

	0	100
0		9
1	10.0	10
2	11.0	11
3	12.0	12
4	13.0	13
5	14.0	14
6	15.0	15
7	16.0	16
8	17.0	17
9	18.0	18
10	19.0	19
11	20.0	20
12	21.0	21
13	22.0	22
14	23.0	23
15	24.0	24
16	25.0	25
17	26.0	26
18	27.0	27
19	28.0	28
20	29.0	29
21	30.0	30
22	31.0	31
23	32.0	32
24	33.0	33
25	34.0	34
26	35.0	35
27	36.0	36
28	37.0	37
29	38.0	38
30	39.0	39
31	40.0	40
32	41.0	41
33	42.0	42
34	43.0	43
35	44.0	44
36	45.0	45

C.S. Alverson maps of El Capone
Valley & Test Wells maps no 27-34
Filed with m.G. # 2
all American Casual # 22A.

Aa-Ai
Am-Aq
Ar-As
Baa-Bam
Bam-Bap
Bap-Bis
Bis-Bor
Bot-Brt
Brt-Bz
aa-Car
Car-Coa
Coa-CG
CG-CZ
CZ-Da
Da-Dn
Dn-Dz
Dz-EK
EK-EZ
Ea-Fh
Fh-Fo
Fo-FZ
FZ-Gd
Gd-GG
GG-Gr
Gr-GZ
GZ-Ham
Ham-HoC
HoC-Hn
Hn-Hoo
Hoo-Hz
Jh
Jo
Jz
Ka-Kd
Kd-Kn
Kn-Ko
Ko-KZ
KZ-Lav
Lav-Ler
Ler-Lie
Lie-Lom
Lom-LZ
LZ-La
La-Lhn
Lhn-Lhz
Lhz-Lq
Lq-Lr
Lr-Lz
Lz-Lv
Lv-Lw
Lw-Lx
Lx-Ly
Ly-Lz
Lz-Lv
Lw
Lx
Ly
Lz

KEU

S

CHICAGO.

Tables

DISTANCES

		0	MIC
0		0	
1	10.0	10	
2	11.0	11	
3	12.0	12	
4	13.0	13	
5	14.0	14	
6	15.0	15	
7	16.0	16	
8	17.0	17	
9	18.0	18	
10	19.0	19	
11	20.0	20	
12	21.0	21	
13	22.0	22	
14	23.0	23	
15	24.0	24	
16	25.0	25	
17	26.0	26	
18	27.0	27	
19	28.0	28	
20	29.0	29	
21	30.0	30	
22	31.0	31	
23	32.0	32	
24	33.0	33	
25	34.0	34	
26	35.0	35	
27	36.0	36	
28	37.0	37	
29	38.0	38	
30	39.0	39	
31	40.0	40	
32	41.0	41	
33	42.0	42	
34	43.0	43	
35	44.0	44	
36	45.0	45	

Am - Aa
 Ar - Ar
 Baa - Bam
 Bam - Bam
 BaB - BaS
 Bor - Bor
 Brt - Brt
 Bz - Bz
 Ca - Ca
 Caa - Caa
 CG - CG
 C7 - C7
 Da - Da
 Dn - Dn
 Dz - Dz
 Ea - Ea
 Ek - Ek
 Ez - Ez
 Fa - Fa
 Fh - Fh
 Fz - Fz
 Gd - Gd
 Gg - Gg
 Gr - Gr
 Gz - Gz
 Haa - Haa
 Ham - Ham
 Hec - Hec
 Hh - Hh
 Hoo - Hoo
 Hz - Hz
 Jh - Jh
 Jo - Jo
 Jz - Jz
 Ka - Ka
 Kd - Kd
 Kh - Kh
 Kn - Kn
 Kz - Kz
 Lav - Lav
 Lw - Lw
 Lie - Lie
 Lom - Lom
 Lz - Lz
 Lan - Lan
 Lhz - Lhz
 La - La
 Lt - Lt
 Lz - Lz
 Wa - Wa
 Waa - Waa
 Wab - Wab
 Wec - Wec
 Wer - Wer
 Whb - Whb
 Whg - Whg
 Whi - Whi
 Win - Win
 Wob - Wob
 Wz - Wz
 Xy

KEU

S

CHICAGO.

Tables

DISTANCES

	0	MIC
0		
1	10.0	10
2	11.0	11
3	12.0	12
4	13.0	13
5	14.0	14
6	15.0	15
7	16.0	16
8	17.0	17
9	18.0	18
10	19.0	19
11	20.0	20
12	21.0	21
13	22.0	22
14	23.0	23
15	24.0	24
16	25.0	25
17	26.0	26
18	27.0	27
19	28.0	28
20	29.0	29
21	30.0	30
22	31.0	31
23	32.0	32
24	33.0	33
25	34.0	34
26	35.0	35
27	36.0	36
28	37.0	37
29	38.0	38
30	39.0	39
31	40.0	40
32	41.0	41
33	42.0	42
34	43.0	43
35	44.0	44
36	45.0	45

Ar-Az
 Baa-Bam
 Bam-Bea
 Bec-Bis
 Bis-Bor
 Bor-Brt
 Brt-Bz
 Caa-Car
 Car-Caa
 Cc-CG
 Cg-Cz
 Daa-Da
 Da-Dn
 Dn-Dz
 Eaa-Ek
 Ek-Ez
 Fa-Fh
 Fh-Fz
 Ga-Gd
 Gd-Gg
 Gg-Gr
 Haa-Ham
 Ham-Hec
 Hec-Hh
 Hh-Hoo
 Hoo-Hz
 Jaa-Jh
 Jh-Jo
 Jo-Jz
 Kaa-Kd
 Kd-Kh
 Kh-Kn
 Kn-Kz
 Laa-Lav
 Lav-Ler
 Ler-Lie
 Lie-Lom
 Lom-Lz
 Maa-Ma
 Ma-Mn
 Mn-Mz
 Naa-Na
 Na-Nz
 Oaa-Oa
 Oa-On
 On-Oz
 Paa-Pa
 Pa-Pz
 Qaa-Qa
 Qa-Qz
 Raa-Ra
 Ra-Rz
 Saa-Sa
 Sa-Sz
 Taa-Ta
 Ta-Tz
 Uaa-Ua
 Ua-Uz
 Vaa-Va
 Va-Vz
 Waa-Wa
 Wa-Wz
 Xaa-Xa
 Xa-Xz
 Yaa-Ya
 Ya-Yz
 Zaa-Za
 Za-Zz

KEU

S

CHICAGO.

Tables

DISTANCES

	0	MIC
0		
1	10.0	10
2	11.0	11
3	12.0	12
4	13.0	13
5	14.0	14
6	15.0	15
7	16.0	16
8	17.0	17
9	18.0	18
10	19.0	19
11	20.0	20
12	21.0	21
13	22.0	22
14	23.0	23
15	24.0	24
16	25.0	25
17	26.0	26
18	27.0	27
19	28.0	28
20	29.0	29
21	30.0	30
22	31.0	31
23	32.0	32
24	33.0	33
25	34.0	34
26	35.0	35
27	36.0	36
28	37.0	37
29	38.0	38
30	39.0	39
31	40.0	40
32	41.0	41
33	42.0	42
34	43.0	43
35	44.0	44
36	45.0	45

Baa-Bam
 Bam-Bea
 Bea-Bis
 Bis-Bor
 Bor-Br
 Br-Bz
 Caa-Car
 Car-Caa
 Ca-Cg
 Ca-Cz
 Da-Da
 Da-Dn
 Dn-Dz
 Ea-Ek
 Ek-Ez
 Fa-Fh
 h-Fa
 a-Fz
 a-Gd
 d-Gg
 G-Gr
 s-Gz
 Jaa-Jam
 Jam-Jec
 Jec-Jn
 Jn-Hoo
 Joo-Hz
 La-Jh
 L-Jo
 L-Jf
 La-Kd
 Le-Kn
 L-Kn
 L-Kz
 Laa-Lav
 Lav-Ler
 es-Lie
 if-Lom
 on-Lz
 na-la
 ne-lhn
 l-lh
 l-lf
 u-lz
 La-Wal
 Lam-War
 Las-Web
 Lec-Wel
 Fel-Wer
 es-Wip
 hi-Wig
 ip-wil
 im-Win
 ig-Wop
 Joo-Wz
 KY
 Y

KEU

S

CHICAGO.

Tables

DISTANCES

	0	MIC
0	10.0	10
1	11.0	11
2	12.0	12
3	13.0	13
4	14.0	14
5	15.0	15
6	16.0	16
7	17.0	17
8	18.0	18
9	19.0	19
10	20.0	20
11	21.0	21
12	22.0	22
13	23.0	23
14	24.0	24
15	25.0	25
16	26.0	26
17	27.0	27
18	28.0	28
19	29.0	29
20	30.0	30
21	31.0	31
22	32.0	32
23	33.0	33
24	34.0	34
25	35.0	35
26	36.0	36
27	37.0	37
28	38.0	38
29	39.0	39
30	40.0	40
31	41.0	41
32	42.0	42
33	43.0	43
34	44.0	44
35	45.0	45
36		

Barrett Munic. Res. Addn

33

X Baker Case, maps used in

39-B

Barrett (Bear Canyon Res
RESURVEY 180' Contour

33 C

Barrett

33 D

Bam-Bea
 Bas-Bis
 Bis-Bor
 Bor-Brt
 Brt-Bz
 Caa-Car
 Car-Caa
 Caa-CG
 CG-CZ
 CZ-Da
 Da-Dn
 Dn-Dz
 Dz-EK
 EK-FZ
 Fa-Fh
 Fh-Fg
 Fg-FZ
 Gd-Ga
 Ga-Gg
 Gg-Gr
 Gr-Gz
 Gz-Gaa
 Gaa-Gam
 Gam-Hec
 Hec-Hn
 Hn-Hoo
 Hoo-Hz
 Ia-Jh
 Jh-Jo
 Jo-Jz
 Jz-Kd
 Kd-Kn
 Kn-Kz
 Kz-Laa
 Laa-Lav
 Lav-Ler
 Ler-Lie
 Lie-Lom
 Lom-LZ
 LZ-Ia
 Ia-Ian
 Ian-Ihz
 Ihz-Ia
 Ia-Iz
 Iz-V
 Va-Vai
 Vai-Vat
 Vat-Ved
 Ved-Vel
 Vel-Ver
 Ver-Vwh
 Vwh-Vw
 Vw-Vig
 Vig-Vin
 Vin-Vip
 Vip-Vz
 Vz-Vz
 Y
 Z

NEW

S

CHICAGO.

Tables

DISTANCES

	0	
0	10.0	10
1	11.0	11
2	12.0	12
3	13.0	13
4	14.0	14
5	15.0	15
6	16.0	16
7	17.0	17
8	18.0	18
9	19.0	19
10	20.0	20
11	21.0	21
12	22.0	22
13	23.0	23
14	24.0	24
15	25.0	25
16	26.0	26
17	27.0	27
18	28.0	28
19	29.0	29
20	30.0	30
21	31.0	31
22	32.0	32
23	33.0	33
24	34.0	34
25	35.0	35
26	36.0	36
27	37.0	37
28	38.0	38
29	39.0	39
30	40.0	40
31	41.0	41
32	42.0	42
33	43.0	43
34	44.0	44
35	45.0	45
36		

MIC

Bag-Bis
 Bis-Bot
 Bot-Brt
 Brt-Bz
 Caa-Car
 Car-Caa
 Ca-CG
 Ca-CZ
 Ca-Da
 Da-Dn
 Dn-Dz
 Ca-Lk
 Lk-Fz
 Fa-Fh
 h-Fa
 a-Fz
 a-Gd
 Gd-Gg
 Gg-Gr
 Gs-Gz
 Gaa-Ham
 Ham-Hec
 Hec-Hn
 Hh-Hoo
 Hoo-Hz
 Ja-Jh
 Ji-Jo
 Ji-Jz
 Ka-Kd
 Ke-Kh
 Ki-Kn
 Ko-Kz
 Laa-Lav
 Lav-Ler
 Les-Lie
 Lit-Lom
 Lon-Lz
 Ma-Ma
 Me-Mh
 Mi-Mz
 Mu-Mz
 Va-Wal
 Vam-War
 Ves-Web
 Vel-Wel
 Ves-Wwh
 Vh-Wig
 Vh-Wi
 Vim-Win
 Vig-Woz
 Voo-Wz
 X
 Y
 Z

S
CHICAGO.

Tables

DISTANCES

	0	MIC
0	0	0
1	10.0	10
2	11.0	11
3	12.0	12
4	13.0	13
5	14.0	14
6	15.0	15
7	16.0	16
8	17.0	17
9	18.0	18
10	19.0	19
11	20.0	20
12	21.0	21
13	22.0	22
14	23.0	23
15	24.0	24
16	25.0	25
17	26.0	26
18	27.0	27
19	28.0	28
20	29.0	29
21	30.0	30
22	31.0	31
23	32.0	32
24	33.0	33
25	34.0	34
26	35.0	35
27	36.0	36
28	37.0	37
29	38.0	38
30	39.0	39
31	40.0	40
32	41.0	41
33	42.0	42
34	43.0	43
35	44.0	44
36	45.0	45

Bis - Bor
Bar - Brt
Brt - Bz
Caa - Car
Car - Coa
Og - CG
r - LZ
Ja - Da
Ja - Un
Ja - Dz
Ca - Ek
Ek - Fz
Fa - Fh
h - Fa
a - Fz
a - Gd
ad - Gg
a - Gr
is - Gz
aa - Nam
Ham - Hec
hec - Hin
hb - Hoo
Hoo - Hz
Ja - Jh
L - Jo
L - Jz
Ja - Kd
ke - Kn
ki - Kn
ko - Kz
Laa - Lay
Lay - Ler
es - Lie
Lif - Lom
Lon - LZ
a - La
e - Lh
be - Lh
L - La
L - Lz
U
Ya - Wal
Nam - War
Nas - Wap
Nec - Wei
Nei - Wer
es - Whb
Ni - Wio
Np - Win
Nim - Win
Nig - Wpn
Noo - Wz
XY
M
Y
U

Black Canyon Pipe line 52-M
 Blaisdell, N.W. plan sand filter
 as plain gate Res 10-A
 Bonita Pipe line, profile 5-T

Bar-Brt
 Brt-Bz
 Caa-Car
 Car-Caa
 Cg-CG
 C-CZ
 Da-Da
 Da-Un
 Dn-Dz
 Ca-EK
 EK-EZ
 Fa-Fh
 h-Fa
 a-FZ
 a-Gd
 ad-Gg
 Gg-Gr
 Gs-Gz
 Haa-Ham
 Ham-Hec
 Hec-Hh
 Hh-Hoo
 Hoo-Hz
 Ja-Jh
 J-Jo
 K-Jk
 Ka-Kd
 Kd-Kh
 Kh-Kn
 Kn-Kz
 Laa-Lav
 Lav-Ler
 Les-Lie
 Lit-Lom
 Lon-Lz
 a-La
 e-Lhn
 se-lhz
 L-La
 r-Lr
 u-lz
 Va-Wal
 Wam-War
 Was-Web
 Wec-Wer
 Wel-Wer
 es-Wwh
 Wl-Wig
 Wb-Wil
 Wm-Win
 Wg-Won
 Woo-Wz
 XY

CHICAGO
 Table
 DISTANCES

0	0
1	10.0
2	11.0
3	12.0
4	13.0
5	14.0
6	15.0
7	16.0
8	17.0
9	18.0
10	19.0
11	20.0
12	21.0
13	22.0
14	23.0
15	24.0
16	25.0
17	26.0
18	27.0
19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

City Farms
City of S. D.
Camp Merney
Crown Point

9
4
19A
19

Caa-Car
Car-Caa
Ca-CG
C-CZ
Ca-Da
Ca-Un
Ca-Dz
Ca-CK
CK-EZ
Ca-Fh
h-Fa
a-FZ
Ca-Gd
Ca-GG
Ca-Gr
Ca-Gz
Ca-Ham
Ham-Hec
Hec-Hh
Hh-Hoo
Hoo-Hz
Ja-Jh
L-Jo
L-Jf
Ka-Kd
Ke-Kh
Ki-Kn
Jo-Kz
Lao-Lav
Law-Ler
Les-Lie
Lit-Lom
Lon-Lz
La-La
e-lhn
be-lhz
l-la
l-lf
u-lz
Ya-Wal
Wam-War
Was-Web
Wec-Wel
Wel-Wer
es-Wih
hi-Wig
ip-Wil
im-Win
ig-Won
oo-Wz
XY
Y

CHICAGO
Table
DISTANCE

0	0
1	10.0
2	11.0
3	12.0
4	13.0
5	14.0
6	15.0
7	16.0
8	17.0
9	18.0
10	19.0
11	20.0
12	21.0
13	22.0
14	23.0
15	24.0
16	25.0
17	26.0
18	27.0
19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

City of 50 Impounding + Carrying Septem 41

City Pueblo's (Baker map) 40

CHICAGO

Table

DISTANCE

	0
0	10.0
1	11.0
2	12.0
3	13.0
4	14.0
5	15.0
6	16.0
7	17.0
8	18.0
9	19.0
10	20.0
11	21.0
12	22.0
13	23.0
14	24.0
15	25.0
16	26.0
17	27.0
18	28.0
19	29.0
20	30.0
21	31.0
22	32.0
23	33.0
24	34.0
25	35.0
26	36.0
27	37.0
28	38.0
29	39.0
30	40.0
31	41.0
32	42.0
33	43.0
34	44.0
35	45.0
36	

Car - Cea
06 - CG
C - CZ
Ca - Da
Ca - Un
D - Dz
Ca - EK
EK - FZ
Ca - Fh
h - Fa
a - FZ
a - Gd
d - Gg
g - Gr
s - Gz
Haa - Ham
Ham - Hec
hec - Hn
Hh - Hoo
Hoo - Hz
I
Ia - Jh
I - Jo
I - Jf
Ia - Kd
Ie - Kn
Ii - Kn
Io - Kz
Laa - Lav
Low - Ler
les - Lie
lit - Lom
Lon - LZ
La - Ln
le - Lhn
he - Lhz
I - Ia
I - It
Iu - Iz
V
Va - Wal
Vam - Var
Vas - Web
Vec - Wel
Vel - Wer
Ves - Whb
Vhi - Wig
Vib - Wij
Vim - Win
Vig - Won
Voo - Wz
XY
Y
Y
Y

CHICAGO

Table

DISTANCE

	0
0	0.0
1	10.0
2	11.0
3	12.0
4	13.0
5	14.0
6	15.0
7	16.0
8	17.0
9	18.0
10	19.0
11	20.0
12	21.0
13	22.0
14	23.0
15	24.0
16	25.0
17	26.0
18	27.0
19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

cost data filed with San Vicente
 Chollas, gen. plan of dam & outlet tower
 # 22 Colorado River Appl. maps.
 # 15 Cleveland National Forest Reserve

COB-CG
 Ca-Cz
 Da-Dd
 Da-Dn
 Dn-Dz
 Ea-Ek
 Ek-Ez
 Fa-Fh
 Fh-Fg
 Ga-Gz
 Ga-Gd
 Gd-Gg
 Gg-Gr
 Gs-Gz
 Haa-Ham
 Ham-Hec
 Hec-Hn
 Hp-Hoo
 Hoo-Hz
 Ja-Jh
 Ji-Jo
 Jk-Jz
 Ka-Kd
 Ke-Kn
 Kl-Kn
 Ko-Kz
 Laa-Lov
 Law-Ler
 Les-Lie
 Lif-Lom
 Lon-Lz
 Pa-Pa
 Pa-Pn
 Pe-Pz
 Ra-Rz
 Sa-Sz
 Ta-Tz
 Va-Va
 Va-Va
 Vam-Var
 Vab-Veb
 Vec-Vel
 Ver-Ver
 Ves-Ven
 Vni-Vni
 Vib-Vi
 Vim-Vim
 Vig-Vig
 Voo-Voz
 X
 Y
 Z

Cuyamaca Flume, location of through 32-B
Secs. 7 & 8

CHICAGO
Table
DISTANCE

0	0
1	10.0
2	11.0
3	12.0
4	13.0
5	14.0
6	15.0
7	16.0
8	17.0
9	18.0
10	19.0
11	20.0
12	21.0
13	22.0
14	23.0
15	24.0
16	25.0
17	26.0
18	27.0
19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Cr - Cz
Da - Dd
Da - Dn
Dn - Dz
Ea - Ek
Ek - Ez
Fa - Fh
Fh - Fg
Ga - Gz
Ga - Gd
Ga - Gg
Ga - Gr
Gs - Gz
Haa - Hain
Ham - Hec
Hec - Hn
Hh - Hoo
Hoo - Hz
Ja - Jh
Ja - Jo
Ka - Kd
Ka - Kn
Ka - Kh
Ka - Kz
Laa - Lav
Law - Ler
Les - Lie
Lit - Lom
Lon - LZ
Ma - Mn
Me - Mz
Na - Nl
Nu - Nz
Oa - Ol
Oam - Oal
Oas - Oab
Oec - Oel
Oel - Oer
Oes - Oeh
Ohi - Oig
Oib - Oij
Oim - Oin
Ois - Oob
Ooo - Ooz
Oxy
Oy
Oz

CHICAG

Tabl

DISTANCE

	0
0	0
1	10.0
2	11.0
3	12.0
4	13.0
5	14.0
6	15.0
7	16.0
8	17.0
9	18.0
10	19.0
11	20.0
12	21.0
13	22.0
14	23.0
15	24.0
16	25.0
17	26.0
18	27.0
19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Da-Dd
Dn-Dn
Dp-Dz
Ea-Ek
Ek-Ez
Fa-Fh
Fh-Fg
Fa-Fz
Gd-Gd
Gd-Gg
Gg-Gr
Gs-Gz
Haa-Ham
Ham-Hec
Hec-Hn
Hh-Hoo
Hoo-Hz
Ja-Jh
Ji-Jo
Jf-Jz
Ka-Kd
Kd-Kh
Kl-Kn
Kp-Kz
Laa-Lav
Low-Ler
Les-Lie
Lit-Lom
Lon-Lz
La-La
e-lhn
pe-lhz
ll-la
lr-lz
lu-lz
V
Va-Vai
Vam-Var
Vos-Vob
Vec-Ver
Ves-Vis
Vip-Vig
Vim-Vin
Vig-Viz
Voo-Voz
X
Y
Z

Delivery of water to City of San Diego ^{J.W.V.} 23

CHICAGO

Table

DISTANCE

	0
0	0.0
1	10.0
2	11.0
3	12.0
4	13.0
5	14.0
6	15.0
7	16.0
8	17.0
9	18.0
10	19.0
11	20.0
12	21.0
13	22.0
14	23.0
15	24.0
16	25.0
17	26.0
18	27.0
19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

DA-Dn
Dn-Dz
Ea-Ek
Ek-Ez
Fa-Fh
Fh-Fz
Ga-Gd
Gd-Gg
Gg-Gr
Gs-Gz
Haa-Ham
Ham-Hec
Hec-Hh
Hh-Hoo
Hoo-Hz
I
Ja-Jh
Jh-Jo
Jo-Jz
Ka-Kd
Kd-Kh
Kh-Kn
Kn-Kz
Laa-Lav
Lav-Ler
Ler-Lie
Lie-Lom
Lom-Lz
Ma-Mh
Mh-Mz
Na-Nh
Nh-Nz
Oa-Od
Od-Og
Og-Oh
Oh-Oz
Pa-Pd
Pd-Pg
Pg-Ph
Ph-Pz
Qa-Qd
Qd-Qg
Qg-Qh
Qh-Qz
Ra-Rd
Rd-Rg
Rg-Rh
Rh-Rz
Sa-Sd
Sd-Sg
Sg-Sh
Sh-Sz
Ta-Td
Td-Tg
Tg-Th
Th-Tz
Ua-Ud
Ud-Ug
Ug-Uh
Uh-Uz
Va-Vd
Vd-Vg
Vg-Vh
Vh-Vz
Wa-Wd
Wd-Wg
Wg-Wh
Wh-Wz
Xa-Xd
Xd-Xg
Xg-Xh
Xh-Xz
Ya-Yd
Yd-Yg
Yg-Yh
Yh-Yz
Za-Zd
Zd-Zg
Zg-Zh
Zh-Zz

Table

DISTANCE

0	0
1	10.0
2	11.0
3	12.0
4	13.0
5	14.0
6	15.0
7	16.0
8	17.0
9	18.0
10	19.0
11	20.0
12	21.0
13	22.0
14	23.0
15	24.0
16	25.0
17	26.0
18	27.0
19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Dp-Dz
 Ea-Ek
 Ek-Ez
 Fa-Fh
 fh-fa
 fa-fz
 Ga-Gd
 Gd-Gg
 Gg-Gr
 Gs-Gz
 Haa-Ham
 Ham-Hec
 Hec-Hin
 Hp-Hoo
 Hoo-Hz
 I
 Ja-Jh
 Jj-Jo
 Jk-Je
 Ka-Kd
 Ke-Kh
 Ki-Kn
 Ko-Kz
 Laa-Lav
 Law-Ler
 Les-Lie
 Lit-Lom
 Lon-Lz
 La-La
 Le-Lh
 He-Hz
 Ii-Ia
 It-It
 Lu-Lz
 Y
 Ya-Wal
 Wam-War
 Was-Wed
 Wec-Wel
 Vel-Wer
 Wes-Wib
 Wih-Wig
 Wim-Win
 Wis-Wop
 Woo-Wz
 XY
 M
 N
 O
 P
 Q
 R
 S

Table

DISTANCE

	0
0	10.0
1	11.0
2	12.0
3	13.0
4	14.0
5	15.0
6	16.0
7	17.0
8	18.0
9	19.0
10	20.0
11	21.0
12	22.0
13	23.0
14	24.0
15	25.0
16	26.0
17	27.0
18	28.0
19	29.0
20	30.0
21	31.0
22	32.0
23	33.0
24	34.0
25	35.0
26	36.0
27	37.0
28	38.0
29	39.0
30	40.0
31	41.0
32	42.0
33	43.0
34	44.0
35	45.0
36	

147

Ea-EK
 Fa-Fz
 Ga-Gz
 Ha-Hz
 Ia-Iz
 Ja-Jz
 Ka-Kz
 La-Lz
 Ma-Mz
 Na-Nz
 Oa-Oz
 Pa-Pz
 Qa-Qz
 Ra-Rz
 Sa-Sz
 Ta-Tz
 Ua-Uz
 Va-Vz
 Wa-Wz
 Xa-Xz
 Ya-Yz
 Za-Zz

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 " Ed. Hearing before R.R. Comm 51.B
 "

" Alam Site Core Borings 51C.
 " " " Multiple Arch Alam 51-D

Forest Reserve #15

DISTANCE	
	0
0	0
1	10.0
2	11.0
3	12.0
4	13.0
5	14.0
6	15.0
7	16.0
8	17.0
9	18.0
10	19.0
11	20.0
12	21.0
13	22.0
14	23.0
15	24.0
16	25.0
17	26.0
18	27.0
19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Fa-Fh
 Fh-Fg
 Fa-Fz
 Ga-Gd
 Gd-Gg
 Gg-Gr
 Gs-Gz
 Haa-Ham
 Ham-Hec
 Hec-Hin
 Ho-Hoo
 Hoo-Hz
 Ja-Jh
 Ji-Jo
 Jj-Jz
 Ka-Kd
 Ke-Kn
 Ki-Kz
 Laa-Lav
 Law-Ler
 Les-Lie
 Lit-Lom
 Lon-Lz
 La-La
 Le-Lin
 He-Hz
 Li-La
 Ir-It
 Lu-Lz
 U
 Va-Wal
 Vam-Var
 Vas-Ved
 Vec-Ver
 Ves-Vip
 Vin-Vig
 Vm-Vv
 Vm-Vin
 Vis-Vop
 Vso-Vz
 XY
 NY
 Y
 Z

DISTANCE

0	0
1	10.0
2	11.0
3	12.0
4	13.0
5	14.0
6	15.0
7	16.0
8	17.0
9	18.0
10	19.0
11	20.0
12	21.0
13	22.0
14	23.0
15	24.0
16	25.0
17	26.0
18	27.0
19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Eh - Fg
 G - Hz
 Ga - Gd
 Gd - Gg
 Gg - Gr
 Gs - Gz
 Haa - Ham
 Ham - Hec
 Hec - Hn
 Hp - Hoo
 Hoo - Hz
 I
 Ja - Jh
 Jh - Jo
 Jj - Jz
 Ka - Kd
 Ke - Kn
 Kl - Kn
 Ko - Kz
 Laa - Lav
 Low - Lie
 Les - Lie
 Lit - Lom
 Lon - Lz
 La - La
 Le - Lh
 Pe - Thz
 I - Ia
 It - It
 Iu - Iz
 Y
 Ya - Wal
 Wam - War
 Wes - Wep
 Wec - Wei
 Wel - Wer
 Wes - Whh
 Wpl - Wig
 Wip - Wu
 Wm - Win
 Wis - Wop
 Woo - Wz
 XY
 Y
 Y
 Y

Fletcher Lake Marks Site 3Y
 " " " location of dam 32 A
 Cuyamaca Thrust, Sec. 7 & 8 32 B
 Fletcher Pipeline system in Normal Heights 32 C
 " " " system in Kensington Park 32 D
 " " " from Murray to El Cajon & City limits 32 E
 " Lake, N.S.V. of 160' dam 32 F

Freeman Report, maps etc 24
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Fa - Fz
 Ga - Gd
 Gd - Gg
 Gg - Gr
 Gs - Gz
 Haa - Ham
 Ham - Hec
 Hec - Hh
 Hh - Hoo
 Hoo - Hz
 I
 Ja - Jh
 Jh - Jo
 Jj - Jk
 Jk - Jd
 Jd - Jh
 Jh - Jk
 Jk - Jz
 Laa - Lav
 Lav - Ler
 Les - Lie
 Lit - Lom
 Lon - LZ
 La - La
 e - I hn
 he - Ihz
 ll - la
 lr - lz
 lu - lz
 U
 Va - Wal
 Wam - War
 Was - Wab
 Wec - Wei
 Wel - Wer
 Wes - Wpb
 Wpl - Wig
 Wip - Wj
 Wim - Win
 Wig - Wop
 Woo - Wz
 XY
 Y
 Z

0	0
1	10.0
2	11.0
3	12.0
4	13.0
5	14.0
6	15.0
7	16.0
8	17.0
9	18.0
10	19.0
11	20.0
12	21.0
13	22.0
14	23.0
15	24.0
16	25.0
17	26.0
18	27.0
19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

0	10.0
1	11.0
2	12.0
3	13.0
4	14.0
5	15.0
6	16.0
7	17.0
8	18.0
9	19.0
10	20.0
11	21.0
12	22.0
13	23.0
14	24.0
15	25.0
16	26.0
17	27.0
18	28.0
19	29.0
20	30.0
21	31.0
22	32.0
23	33.0
24	34.0
25	35.0
26	36.0
27	37.0
28	38.0
29	39.0
30	40.0
31	41.0
32	42.0
33	43.0
34	44.0
35	45.0
36	

Ga-Gd
 Gd-Gg
 Gg-Gr
 Gs-Gz
 Haa-Ham
 Ham-Hec
 Hec-Hin
 Hh-Hoo
 Hoo-Hz
 Ja-Jh
 Jh-Jo
 Jj-Jz
 Ka-Kd
 Ke-Kn
 Kj-Kn
 Ko-Kz
 Laa-Lav
 Low-Ler
 Les-Lie
 Lit-Lom
 Lon-Lz
 La-La
 Le-Lin
 He-Thz
 Li-La
 Tr-Tz
 Tu-Tz
 U
 Ya-Wal
 Wam-Wal
 Was-Web
 Wec-Wei
 Wel-Wer
 Wes-Whb
 Whi-Wig
 Wip-Wil
 Wim-Win
 Wis-Won
 Woo-Wz
 XY
 M
 N
 O
 P
 Q
 R
 S

0	0
1	10.0
2	11.0
3	12.0
4	13.0
5	14.0
6	15.0
7	16.0
8	17.0
9	18.0
10	19.0
11	20.0
12	21.0
13	22.0
14	23.0
15	24.0
16	25.0
17	26.0
18	27.0
19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Gd - Gg
 Gg - Gr
 Gs - Gz
 Haa - Ham
 Ham - Hec
 Hec - Hn
 Hn - Hoo
 Hoo - Hz
 I
 Ja - Jh
 Ji - Jo
 Jj - Jk
 Ka - Kd
 Ke - Kn
 Kl - Kn
 Ko - Kz
 Laa - Lav
 Low - Ler
 Les - Lie
 Lit - Lom
 Lon - LZ
 Ta - Tn
 Te - Tn
 He - Hz
 I - Ia
 Ir - Iz
 Iu - Iz
 U
 Va - Val
 Vam - Var
 Vas - Vch
 Vec - Vei
 Vel - Ver
 Ves - Vbh
 Vpi - Vpi
 Vpb - Vpi
 Vim - Win
 Vig - Von
 Voo - VZ
 XY
 M
 N
 O
 P
 Q
 R
 S

Growth of Cities

42

Government land, vacant

3-K

	0
0	10.0
1	11.0
2	12.0
3	13.0
4	14.0
5	15.0
6	16.0
7	17.0
8	18.0
9	19.0
10	20.0
11	21.0
12	22.0
13	23.0
14	24.0
15	25.0
16	26.0
17	27.0
18	28.0
19	29.0
20	30.0
21	31.0
22	32.0
23	33.0
24	34.0
25	35.0
26	36.0
27	37.0
28	38.0
29	39.0
30	40.0
31	41.0
32	42.0
33	43.0
34	44.0
35	45.0
36	45.0

Gg - Gr
 Gs - Gz
 Haa - Ham
 Ham - Hec
 Hec - Hn
 Hn - Hoo
 Hoo - Hz
 Ja - Jh
 Jh - Jo
 Jo - Jk
 Jk - Jd
 Jd - Kn
 Kn - Kn
 Kn - Kz
 Kz - Kz
 Laa - Lav
 Lav - Ler
 Les - Lie
 Lit - Lom
 Lon - LZ
 La - Lan
 Lan - Lhn
 Lhn - Lhz
 Lh - Lz
 Lu - Lz
 Y
 Ya - Wal
 Wam - War
 Was - Wec
 Wec - Wel
 Wel - Wer
 Wes - Whh
 Whh - Wig
 Wip - Wij
 Wim - Win
 Wis - Wop
 Wop - Wz
 XY
 M
 N
 O
 P
 Q
 R
 S

0	0
1	10.0
2	11.0
3	12.0
4	13.0
5	14.0
6	15.0
7	16.0
8	17.0
9	18.0
10	19.0
11	20.0
12	21.0
13	22.0
14	23.0
15	24.0
16	25.0
17	26.0
18	27.0
19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Gs - Gz
 Haa - Ham
 Ham - Hec
 Hec - Hn
 Hn - Hoo
 Hoo - Hz
 I
 Ja - Jn
 Jn - Jo
 Jo - Jz
 Ka - Kd
 Ke - Kn
 Kl - Kn
 Kp - Kz
 Laa - Lav
 Law - Ler
 Les - Lie
 Lit - Lom
 Lon - LZ
 La - La
 Le - Lhn
 He - Tbz
 I - Ia
 Ir - It
 Iu - Iz
 Y
 Wa - Wal
 Wam - War
 Was - Web
 Wec - Wei
 Wel - Wer
 Wes - Whb
 Whl - Wig
 Wlo - Wll
 Wim - Win
 Wig - Wom
 Woo - Wz
 XY
 M
 N
 O
 P
 Q
 R
 S

0	0
1	10.0
2	11.0
3	12.0
4	13.0
5	14.0
6	15.0
7	16.0
8	17.0
9	18.0
10	19.0
11	20.0
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Haa-Ham
 Ham-Hec
 Hec-Hin
 Ho-Hoo
 Hoo-Hz
 Ja-Jh
 Ji-Jo
 Jh-Jz
 Ka-Kd
 Ke-Kn
 Ki-Kn
 Ko-Kz
 Laa-Lov
 Law-Ler
 Les-Lie
 Lif-Lom
 Lon-Lz
 Ia-Ian
 Ie-Ihn
 Ihe-Ihz
 Il-la
 Ir-lr
 Iu-lz
 Y
 Na-Wal
 Nam-Wal
 Nes-Wel
 Nec-Wel
 Nel-Wer
 Nes-Wih
 Nih-Wig
 Nib-Wij
 Nim-Win
 Nig-Wop
 Noo-Wz
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Keyes map Pueblo of S. Diego

39-C

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Ham-Hec
Hec-Hin
Ho-Hoo
Hoo-Hz
Ja-Jh
Ji-Jo
K-Kz
Ka-Kd
Ke-Kn
Ki-Kn
Kp-Kz
Laa-Lav
Law-Ler
Les-Lie
Lit-Lom
Lon-Lz
Ta-Ta
e-Ihn
he-Thz
I-Ia
I-Iz
Iu-Iz
U
V
Wa-Wal
Vat-Vat
Ves-Veb
Vec-Veb
Vet-Veb
Ves-Vhb
Vhi-Vis
Vih-Vil
Vih-Vih
Vig-Von
Voo-Vz
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Hermitage Ranch ^{To replace} (El Capitan) (H.E. Doolittle) 21

Henshaw Dam, plans of 29

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36	45.0

Hec - Hh
 Ho - Hoo
 Hoo - HZ
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 Ja - Jh
 JI - Jo
 JI - Jz
 Ka - Kd
 Ke - Kn
 Kl - Kn
 Ko - Kz
 Laa - Lav
 Law - Ler
 Les - Lie
 Lit - Lom
 Lon - LZ
 La - La
 Le - Lhn
 The - Thz
 Ll - La
 Ll - Lt
 Lu - Lz
 U
 Va - Wal
 Var - Var
 Vas - Veb
 Vec - Vel
 Vel - Ver
 Ves - Vvh
 Vhl - Wig
 Win - Wll
 Wim - Win
 Wig - Wob
 Woo - Wz
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Highways, L.D. County, map of 3-F
 " " " thru San Vicente 36-G
 " " " along Lake Hodges 52-P

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- 36 45.0

- Hh - Hoo
- Hoo - Hz
- I
- Ja - Jh
- Ji - Jo
- Jk - Jz
- Ka - Kd
- Ke - Kn
- Kl - Kn
- Ko - Kz
- Laa - Lav
- Law - Ler
- Les - Lie
- Lit - Lom
- Lon - Lz
- la - la
- le - lhn
- he - hz
- li - la
- lu - lz
- Y
- Na - Wal
- Wam - Wal
- Was - Wab
- Wec - Wel
- Wet - Wer
- Wes - Whh
- Whi - Wis
- Wib - Wil
- Wim - Win
- Wig - Wob
- Woo - Wz
- X
- Y
- Z
- AA
- BB
- CC
- DD
- EE
- FF
- GG
- HH
- II
- JJ
- KK
- LL
- MM
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- TT
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Hoo-Hz
Ja-Jh
Ji-Jo
Jk-Jz
Ka-Kd
Ke-Kn
Kl-Kn
Ko-Kz
Laa-Lav
Law-Ler
Les-Lie
Lif-Lom
Lon-Lz
La-La
Le-Lhn
he-hz
I-Ia
I-I
Iu-Iz
U
Va-Wal
Wam-War
Was-Web
Wec-Wei
Wel-Wer
Wes-Wpb
Wnl-Wig
Wib-Wi
Wim-Win
wig-won
Woo-Wz
XY
M
N
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T
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21

Impounding & carrying system of 41
 City of S. Diego
 Irrigation, State of Calif. 12
 Indian Farms, plot of (El Capitán) 50-2

3	12.0
4	13.0
5	14.0
6	15.0
7	16.0
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19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

1
 Ja - Jh
 Ji - Jo
 Jk - Jz
 Ka - Kd
 Ke - Kn
 Kx - Kn
 Ko - Kz
 Laa - Lav
 Law - Lev
 Les - Lie
 Lit - Lom
 Lon - Lz
 La - La
 Le - Lhn
 he - hz
 li - la
 lr - lz
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 wa - wal
 wam - var
 was - web
 wac - wel
 wer - wer
 ves - whh
 whi - wig
 whp - whi
 win - win
 wig - wop
 woo - wz
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Jamal Rancho Topographical
Jorgensen L.R. Stress sheet El Cap.

5 H

50 A±

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Ja - Jh
 Ji - Jo
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 Ka - Kd
 Ke - Kh
 Ki - Kn
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 Lit - Lom
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 la - la
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 li - la
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 lu - lz
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 Va - Val
 Vam - Var
 Was - Vep
 Vec - Vef
 Wel - Wef
 Ves - Wep
 Vpi - Vpi
 Vip - Vpi
 Vim - Vip
 Vig - Vop
 Voo - Voz
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Ji - Jo
 Jk - Jz
 Ka - Kd
 Ke - Kn
 Ki - Kn
 Ko - Kz
 Laa - Lav
 Low - Ler
 Les - Lie
 Lit - Lom
 Lon - Lz
 La - La
 le - lhn
 me - mhz
 H - la
 Tr - Tt
 Lu - Lz
 Y
 Na - Wal
 Nam - Nvar
 Nos - Nvep
 Nec - Nei
 Nel - Wei
 Nes - Wnh
 Nni - Wig
 Nip - Wil
 Nim - Win
 Nig - Nop
 Nyo - Wz
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Julian Road

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36	45.0

JP - JZ
 Ka - Kd
 Ke - Kh
 Ki - Kn
 Ko - Kz
 Laa - Lav
 Law - Ler
 Les - Lie
 Lit - Lom
 Lon - LZ
 Ta - Td
 Te - Tn
 The - Thz
 H - Ia
 It - Iz
 U
 Ya - Yal
 Yam - Yar
 Was - Wep
 Wec - Wei
 Wel - Wer
 Wes - Whb
 Wni - Wig
 Wip - Wij
 Wim - Win
 Wis - Wop
 Woo - Wz
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6	15.0
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36	45.0

Ka - Kd
 Ke - Kn
 Ki - Kn
 Ko - Kz
 Laa - Lav
 Low - Ler
 Les - Lie
 Lit - Lom
 Lon - LZ
 Ia - Ia
 Ie - Ihn
 Ihe - Ihz
 Il - Ia
 Ir - If
 Iu - Iz
 Y
 Wa - Wal
 Wam - War
 Was - Web
 Wec - Wei
 Wel - Wer
 Wes - Wwh
 Whi - Wig
 Wib - Wij
 Wim - Win
 Wig - Won
 Wwo - Wz
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Kensington Park, Fletcher pipe line sys 32-D

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35	44.0
36	45.0

Ke-Kh
 Kl-Kn
 Ko-Kz
 Laa-Lav
 Law-Ler
 Les-Lie
 Lit-Lom
 Lon-Lz
 la-lan
 le-lon
 me-thz
 ll-la
 lr-lr
 lu-lz
 y
 Ya-Wal
 Wam-Wat
 Was-Web
 Wec-Wel
 Wel-Wer
 Wes-Whb
 Whl-Wig
 Win-Wil
 Wim-Win
 Wig-Won
 Wyo-Wz
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Kl - Kn
 Ko - Kz
 Laa - Lav
 Law - Ler
 Les - Lie
 Lif - Lom
 Lon - LZ
 la - lan
 le - lhn
 me - mhz
 li - la
 lu - lz
 y
 wa - wal
 wam - war
 wes - web
 wec - wei
 wel - wer
 wes - whb
 whi - wig
 wib - wij
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Ko - Kz
 Laa - Lav
 Law - Ler
 Les - Lie
 Lif - Lom
 Lon - Lz
 la - la
 le - lhn
 lne - lhz
 li - la
 lr - lz
 lu - lz
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 v
 wa - wal
 wam - war
 was - web
 wec - weh
 wel - wer
 wes - whh
 whi - wig
 wib - wii
 win - win
 wig - won
 woo - wz
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27	36.0
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29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Laa - Lav
 Law - Ler
 Les - Lie
 Lit - Lom
 Lon - LZ
 La - La
 le - lhn
 the - thz
 li - la
 tr - tr
 tu - tz
 y
 wa - wal
 wam - war
 was - web
 wec - wec
 wel - wer
 wes - whh
 whi - wig
 wip - wip
 wim - win
 wig - won
 woo - wz
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Lawson Valley Road

50 A,

Lameria L. G. & S. V. Brig Maps
see Folder map with 1916 Floods

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Low - Lbr
Les - Lie
Lit - Lom
Lon - LZ
La - la
le - lhn
the - thz
It - la
It - It
tu - tz
y
ya - wal
yam - yar
was - war
wec - wer
wel - wer
wes - whs
whi - wig
wib - wij
wim - win
wig - won
woo - woz
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18 27.0
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35 44.0
36 45.0

21
Les - Lie
Lit - Lom
Lon - Lz
Ja - Ia
le - Iln
Ihe - Ihz
Ii - Ia
Ir - Iz
Ju - Iz
U
Ya - Wal
Wam - Wal
Wem - Wch
Wec - Wel
Wer - Wer
Wes - Whh
Whi - Wig
Wib - Wil
Wim - Win
Wig - Wop
Woo - Wz
X
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 33 42.0
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 35 44.0
 36 45.0

Lif - Lom
 Lon - LZ
 Ia - Ia
 Ie - Ihn
 Ihe - Ihz
 Ii - Ia
 Ir - Ir
 Iu - Iz
 Y
 Ya - Wal
 Yam - War
 Yas - Web
 Yec - Wei
 Yel - Wei
 Yes - Whp
 Yhi - Wig
 Yib - Win
 Yim - Win
 Yig - Wob
 Yoo - Wz
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13

Lower Otay Reservoir (Lew. B. Harris)	5
" Water sheds (W.C. Earle)	
" Valley to Bay of San Diego	5-B
" 1916 IsoHYETOSC Map	
" California Map of (R. W. Lemon)	53 ✓
" Upper Otay general plan	5-0
" California by Sec. Agricul. Mex.	53-B

14	23.0
15	24.0
16	25.0
17	26.0
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22	31.0
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26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Lon-LZ
 La-La
 Le-Lp
 Me-Mz
 N-N
 R-R
 Tu-Tz
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 V
 Wa-Wal
 Wam-War
 Wes-Web
 Wec-Wel
 Wer-Wer
 Wes-Wwb
 Wbi-Wig
 Wip-Wij
 Wim-Win
 Wig-Wyob
 Wwo-Wwz
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15	24.0
16	25.0
17	26.0
18	27.0
19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Ta - Td
 Te - Thn
 The - Thz
 Ti - Ia
 It - It
 Tu - Iz
 U
 Ya - Wal
 Yam - Yar
 Was - Web
 Wec - Wel
 Wel - Wer
 Wes - Whb
 Whi - Wig
 Wib - Wij
 Wim - Win
 Wis - Wop
 Woo - Wz
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Telephone Rate, maps used in

11

16	25.0
17	26.0
18	27.0
19	28.0
20	29.0
21	30.0
22	31.0
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27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Te - Tln
 The - Thz
 Tl - Tg
 Tr - Tt
 Tu - Tz
 U
 Va - Val
 Vam - Val
 Vas - Vab
 Vec - Vel
 Ver - Wer
 Ves - Wpb
 Vhl - Wig
 Vlp - Wll
 Wlm - Wln
 Wlg - Wpn
 Woo - Wz
 XY
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17	26.0
18	27.0
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30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

The - Thz
 ti - la
 tr - tr
 tu - tz
 y
 va - wal
 vam - var
 ves - veb
 vec - vel
 vel - ver
 ves - vvh
 vvi - vvi
 vvi - vvi
 vim - vin
 vig - von
 voo - vz
 xy
 M
 N
 O
 P
 Q
 R
 S

Tia Juana Valley, map of 28

" " " " map of S. & A. 28 A.

B

Tia Juana Valley S. & A. P. R. 28 C

17 26.0
18 27.0
19 28.0
20 29.0
21 30.0
22 31.0
23 32.0
24 33.0
25 34.0
26 35.0
27 36.0
28 37.0
29 38.0
30 39.0
31 40.0
32 41.0
33 42.0
34 43.0
35 44.0
36 45.0

Ti - Ia
Tr - Iz
Tu - Iz
U
V
Va - Vaj
Vam - Vaj
Vas - Veb
Vec - Vel
Vel - Ver
Ves - Vhb
Vhi - Wig
Vib - Vii
Vim - Win
Vig - Von
Voo - VZ
XY
M
N
O
P
Q
R
S

Tide lands (Subdivision of) south
of Market St 1 E

18	27.0
19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

48
Tt - Tt
Tu - Tz
Y
Ya - Wal
Wam - War
Was - Web
Wec - Wei
Wel - Wei
Wes - Whb
Whi - Wig
Wip - Wj
Wim - Win
Wig - Wob
Woo - Wz
XY
M
D
S
S
S

19	28.0
20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Tu - Tz
 U
 V
 Wa - Wal
 Wam - Wai
 Was - Wob
 Wec - Wel
 Wei - Wer
 Wes - Whb
 Whl - Wig
 Wip - Wj
 Wim - Win
 Wis - Wob
 Woo - Wz
 XY
 Y
 Z

U.S. Topo Sheets

25

Upper Otay

5-D

University Heights, map lots 736-7

10

20	29.0
21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

U
 Va - Wal
 Vam - Var
 Vas - Veb
 Vec - Vel
 Vel - Ver
 Ves - Vho
 Vhi - Vio
 Vio - Vii
 Vim - Vin
 Vig - Voo
 Voo - VZ
 XY
 M
 N
 O
 P
 Q
 R
 S
 T
 U
 V
 W
 X
 Y
 Z

Volcan Land & Water Co. ownership 52-T

21	30.0
22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

V
 Wa - Wal
 Wam - WAT
 Was - WAb
 Wec - WEI
 Wei - WEI
 Wes - Whb
 Whi - WIG
 Wip - WII
 Wim - Win
 WIG - WOI
 WOO - WZ
 XY
 M
 N
 O
 P
 Q
 R
 S

Water Development (Cromwell

28

Water sheds of City of S.D. Co.

41-A

22	31.0
23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Wg - Woi
 Wam - Wai
 Was - Wch
 Wec - Wei
 Wel - Wer
 Wes - Whh
 Whi - Wig
 Wip - Wj
 Wim - Win
 Wiv - Wv
 Wvo - Wz
 X
 Y
 Z
 S

23	32.0
24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Wam - War
 Wes - Weh
 Wec - Wei
 Wel - Wer
 Wes - Wep
 Whi - Wig
 Wib - Wil
 Wim - Win
 Wig - Won
 Wwo - Wz
 XY
 M
 Y
 S
 S

Water Consumption, City of S. D.

41-B

24	33.0
25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

W65 - Web
 W66 - Wel
 W67 - Wer
 W68 - Whb
 W69 - Whc
 W70 - Wig
 W71 - Wih
 W72 - Wip
 W73 - Wip
 W74 - Wip
 W75 - Wip
 W76 - Wip
 W77 - Wip
 W78 - Wip
 W79 - Wip
 W80 - Wip
 W81 - Wip
 W82 - Wip
 W83 - Wip
 W84 - Wip
 W85 - Wip
 W86 - Wip
 W87 - Wip
 W88 - Wip
 W89 - Wip
 W90 - Wip
 W91 - Wip
 W92 - Wip
 W93 - Wip
 W94 - Wip
 W95 - Wip
 W96 - Wip
 W97 - Wip
 W98 - Wip
 W99 - Wip
 W00 - Wip
 X
 Y
 M
 N
 O
 P
 Q
 R
 S
 T
 U
 V
 W
 X
 Y
 Z

25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Wec - Wel
 Wei - Wer
 Wes - Whh
 Whi - Wig
 Wip - Wii
 Wim - Win
 Wiv - Wyo
 Wvo - Wz
 XY
 YZ
 WZ

25	34.0
26	35.0
27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Wel - Wer
Wes - Whh
Whi - Wig
Whp - Wji
Wim - Win
Wig - Wop
Woo - Wz
X
Y
Z
A
B
C
D
E
F
G

27	36.0
28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Wes - Whb
Whi - Wig
Wib - Wj
Wim - Win
Wig - Woz
Woo - Wz
X
Y
Z
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

WHI - WIG
 WHJ - WJL
 WHM - WJN
 WHG - WJQ
 WJQ
 XY
 M
 N
 O
 P
 Q
 R
 S
 T
 U
 V
 W
 X
 Y
 Z

28	37.0
29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Wip-Wil
 Wim-Win
 Wvg-Wvz
 W00-WZ
 XY
 X
 M
 N
 O
 P
 Q
 R
 S
 T
 U
 V
 W
 X
 Y
 Z

29	38.0
30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

Wm - Wm
 WIG - Wm
 W00 - WZ
 XY
 M
 N
 O
 P
 Q
 R
 S

30	39.0
31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

WIG-100
 WIG-100
 XY
 M
 Z
 S
 S
 S
 S

31	40.0
32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

W00-WZ
 XX
 M
 10
 10
 10
 10

32	41.0
33	42.0
34	43.0
35	44.0
36	45.0

XY
123456789

33	42.0
34	43.0
35	44.0
36	45.0

N
E
C
O
R
R
E
C
T
I
O
N

MG#3 Multiple Arch Dam

6-0

" #3 " " "

6-01

Mission Gorge No 3 Contours (Fletcher)

" " No 3 Radial Cone (Eastwood)

6-A

" " No 3 (T.H. King)

6-B

" " No 2 156' Dam Net safe Yield

6-F

" " No 3 Capacity + Flooded Area Curve

6-C

" " No 2 " " " " "

6-D

" " # 2 map of 310' contour

6-E

" " # 3 " " " " "

6-G

" " # 2 enlarged map of

6-H

" " # 2 N.S.V. of 156' dam

6-I

" " # 2 " " " 116' "

6-J

" " # 3 " " " 230' " - marks

6-K

" " # 3 " " " 210' "

6-L

" " # 3 " " " 230' "

6-M

Murray Res. N.S.V.

32-H

MG#3 Report of McFarle Re Const. of Weir
in Metal File

A6-

Moreno Spillway Report
metal file

B6

Mission Bay map of proposed location
for sea wall

C6

Mexico (R.R. map of)

28 D

34 43.0
35 44.0
36 45.0

M
A
B
C
D
E
F
G
H
I
J
K
L
M

Marrow Reservoir	53-A	Naval Hospital, topo. map of.	8
Morus Spillway (Report on) Metal file		New San Diego	8 A
Marine Base	8A.	National Forest Reserve	15

Normal Heights / Fletcher Pipe Sys. 37A ^{with Vincent}
 N
 P
 S
 C

34	43.0
35	44.0
36	45.0

Ocean Beach aban. str. car lines 7-A

2/2/50

Fascoe Map Pueblo of San Diego	1870	3
" " " " " "		18
Poole " " " " " "	1856	39
Pamo Res parcel map		52-L
Pueblo of S. Diego (Poole)		39

2025

Rancho Jamul (Topographic Map)	13
Rainfall Chart S.D. County	34
" "	34
Rain Gauging Stations	34A
Codev dam site, topography of	52-R

San Diego River Res. below Div. Dam
Bickett

35 H

San Diego Harbor (U.S. Coordinate)

1

San Diego Harbor (Mean High Tide)

3

" " County (Edwin Capps)

3A

" " County (Geo. Butler)

3B

" " " (U.S. Topography)

" " Bay (U.S. 1851)

" " County (Tracing of Wall Map)

" " " (School Districts)

" " Municipal Water District FA Reades

" " River Water Development

" " River Diverting Dam to Ocean

" " River (SD. Const. GTE Co Power Line

" " Water Development

" " River (Profile of)

" " Harbor (Cromwell)

" " River from El Capitan to

" " City San Diego (County)

" " River at City level

" " River El Monte Ranch

" " " from Cuyamaca Lake

" " to El Capitan

" " HARBOR, map of 1851

" " R. ownership plat & riparian R.

" " at Mission to Old Town

" " County, map showing areas served

" " River So. Fork Dam & Reservoir

" " profile map of

" " County Highways, map of

" " sources of water supply

" " school dist. 1974 map

SAN VICENTE Res & appx map

Street car system

San Bernado Rancho

So Cal Mt. W. Co. system at Clay Barrett

San Diego Pueblo of (Book)

Sweetwater Res. lands

Santa Maria, map of

State of California, Irrigation

Swade com. on Barrett & Lower Clay

South Fork Dam

San Diego River Ed. Fletcher Ownership

10 metal cabinet

51

5

28

26

36I

31

39

5-R (41-D)

52-2

7

36

3-H

3-G

3-F

35-G

35-F

3-E

1-A

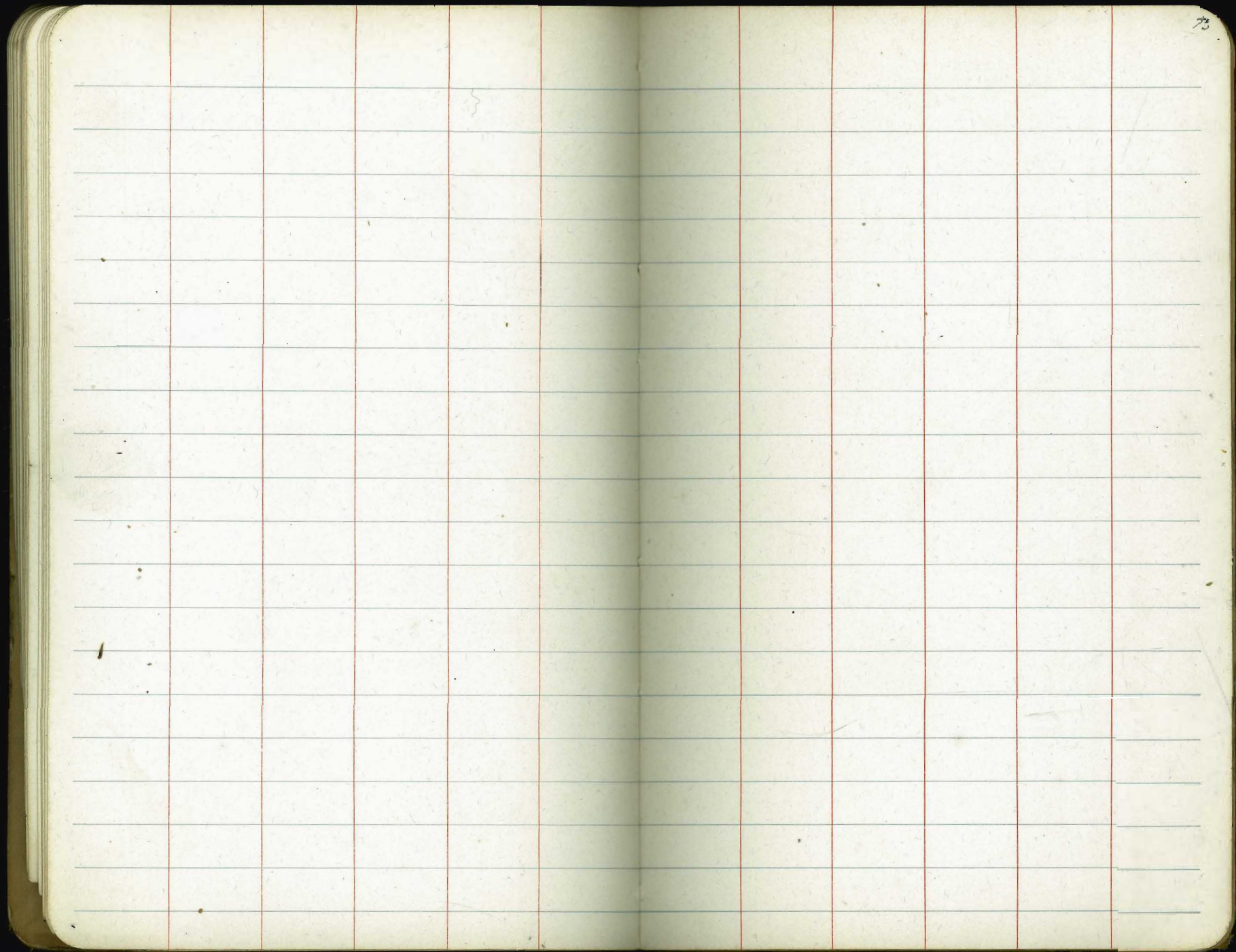
35-D

35-C

35-B

35-A

41



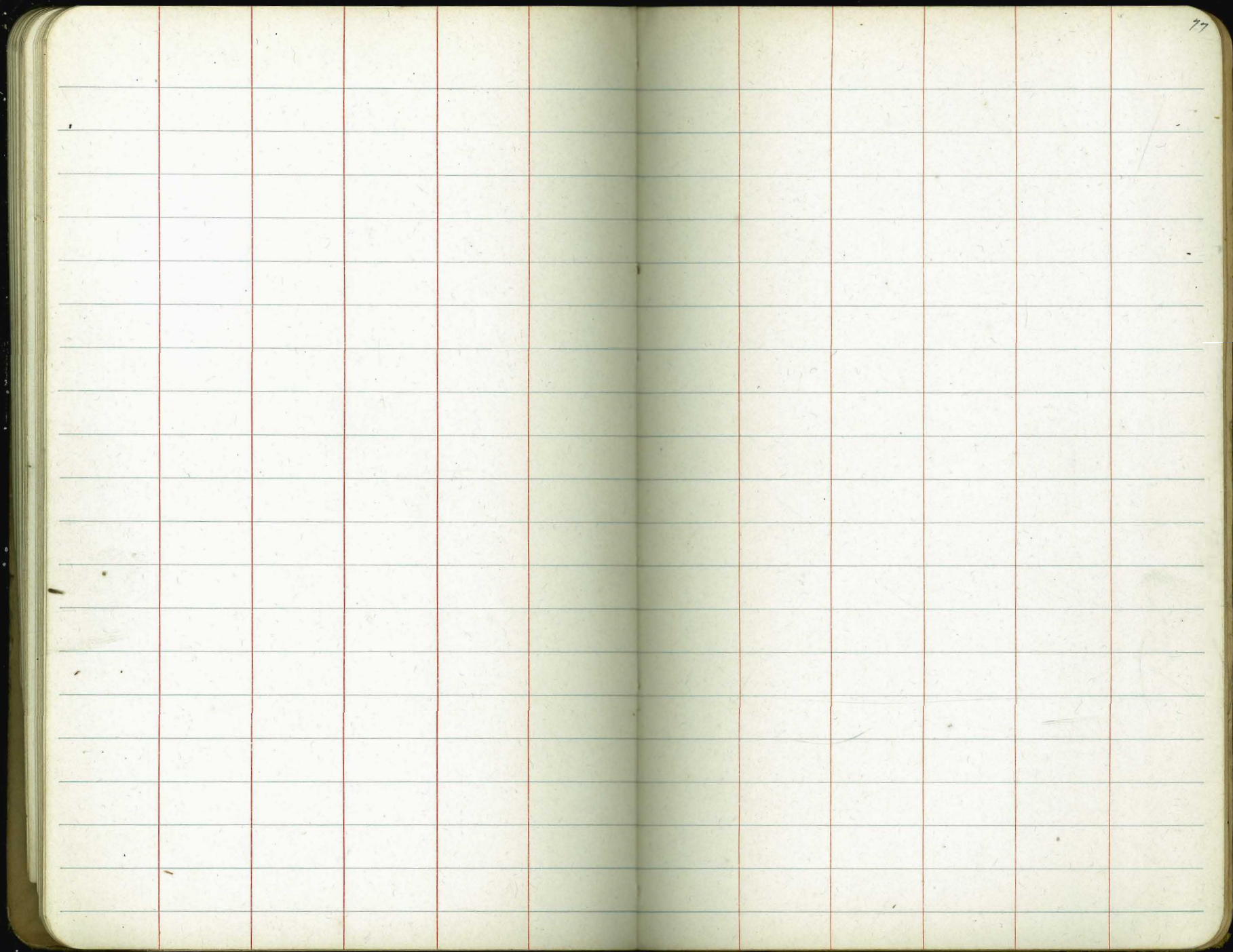
This image shows an open notebook with two facing pages. The pages are cream-colored and feature horizontal ruling lines. The notebook is bound in the center, and the pages have rounded corners. There is no text or other markings on the pages.

number

1



The image shows an open notebook with two facing pages. Both pages are cream-colored and feature a grid of horizontal blue lines and vertical red lines. The vertical red lines create a margin on the left side of each page. The right page has the number '76' written in the top right corner. The notebook is bound in the center, and the pages appear slightly aged with some minor discoloration and small dark spots.

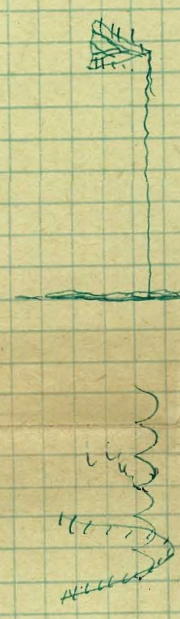


© J. W. Williams

- 1 S. D. Harbor
- 2 S. D. Water Dist
- 3 S. D. County
- 4 City
- 5 Lower Otay
- 6 Mission Ridge
- 7 Street Car Sys.
- 8 Naval Hospital
- 9 City Farms
- 10 University Hqts
- 11 Telephone Rate
- 12 State Calif.

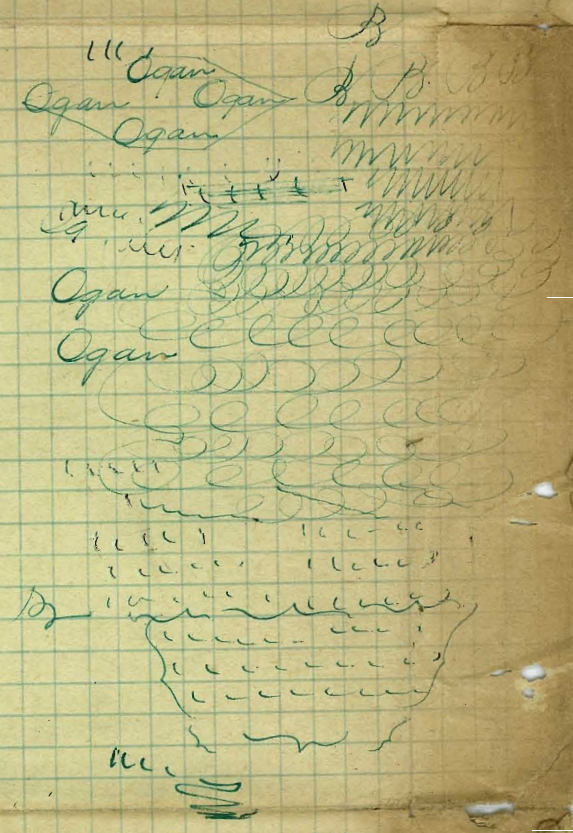
W. Williams

- 41 City Impounding
- 42 Encinitas



- 50 El Capitan
- 51
- 52 San Dieguito
- 53 Mission + Lower Cal.

- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25 S. D. + Ariz Ry
- 26 Barrett Com
- 27 El Capitan
- 28 San Juan
- 29 Kula-hau
- 30 Exhibits El Cap
- 31 Sweetwater
- 32 Fletcher Lake
- 33 Barrett Res
- 34 Campbell
- 35 S. D. River
- 36 San Vicente
- 37 B
- 38 Boulder Canyon Res site
- 39 Pueblo of S. Diego
- 40 City Impounding



2

1:45

Box, Page J W Williams

Telephone Rates	11
University Hts Res.	10
City farms	9
Palboa Park	8
S.D. Elec. Reg. system	7
W.G. No 2 + 3	6
Lower Otay	5
City of S.D.	4
S.D. County	3
S.D. Municipal W. Dist 2	
S.D. Harbor	1

Calif	53
Quequito	52
W. Co	51 —
Cap	50
San Antonio	42
City of S. D	41
Pueblo of S. D	39
Colorado River	
Boulder Canyon	38
Chollas	37
San Vicente	36
San N. River	35
Rainfall Charts S.D. Co.	34
Borrett	33
Clay Co	32 —
Sunsetwater	31
Curry W. Co	30 —
Husham Dam	29
Trajana River	28
El Cajon Ranches	27
Borrett & L. Clay	26
S. P. & Ariz. R.R.	25
Freeman Report Grafton	24
— — — —	23
— — — —	22
Balboa Park	21
So. Cal. Mtn. W. Co	20
Crown Point	19
Marion Valley	18
Dam Designs	17
S. D. River	16
Forest Reserve ^{(Cleveland} National	15
Guaymas W. Co	14
Guaymas L. Y. & S. V. I. D.	13
— of Calif. Univ.	12

W 20' of Lot 22 & all of Lot 23

Block 63 Shuman's add

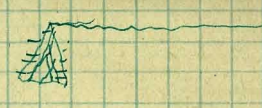
140 x 75 always 70

Street 80

6000 acres
104.776 ac for 107 tufts
203,000

8.92
9.92

DISTANCES FROM CENTER OF ROADWAY FOR CROSS
ROADWAY 14 FEET WIDE. SIDE SLOPES 1 1/4 TO 1.
FOR SINGLE TRACK EMBANKMENT.



1	S. D. Harbor Dist
2	S. D. Water Dist
3	S. D. County
4	S. D. City
5	Lower Otay Range
6	Mission Range
7	Street Car Dep.
8	Marriott Hospital
9	City Farms
10	University Hgts
11	Telephone Rate
12	State Calif.
13	
14	

