Return to City Engineers Office
City Hall, San Diego, Cal.

TRANSIT

398

F.B. 374

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Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

MINUTES.	LKS.	MINUTES.	LKS.	MINUTES.	LKS.
1	2⅓	21	49	41	95⅔
2	4⅔	22	51⅓	42	98
3	7	23	53⅔	43	100⅓
4	9⅓	24	56	44	102⅔
5	11⅔	25	58⅓	45	105
6	14	26	60⅔	46	107⅓
7	16⅓	27	63	47	109⅔
8	18⅔	28	65⅓	48	112
9	21	29	67⅔	49	114⅓
10	23⅓	30	70	50	116⅔
11	25⅔	31	72⅓	51	119
12	28	32	74⅔	52	121⅓
13	30⅓	33	77	53	123⅔
14	32⅔	34	79⅓	54	126
15	35	35	81⅔	55	128⅓
16	37⅓	36	84	56	130⅓
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

TABLE FOR RUNNING ON SLOPES.

In the following table the first column shows the angle, the second the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS
°		°		°		°	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07

Clough
Denman
Rogers
5.9.10

Cross section of Newport St (80)

W L Abbot to Guizot

Bm Monument	3.37	15.64		12.27	n E Bacon & Newport
	4.17	12.93	6.88	8.76	

W L of Abbot St (60')

Sl	13.9	−1.0
bb	13.6	−0.7
+8	13.0	−0.1
y	10.6	x 2.3
b	8.2	4.7
y	6.6	6.3
bb	6.5	6.4
nl	7.5	5.4

W bb of Abbot

nl	6.7	6.2
bb	6.7	6.2
y	6.5	6.4
b	6.9	6.0
y	8.9	4.0
bb	10.6	2.3
Sl	11.0	1.9

W 1/4 of Abbot

Sl	10.3	2.6
bb	9.8	3.1
y	7.4	5.5
b	6.7	6.2
y	6.3	6.6
bb	6.7	6.2
nl	6.5	6.4

12.93

Newport st

Center of Abbot

nl	6.5	6.4
bb	6.5	6.4
y	6.3	6.6
b	6.7	6.2
y	7.1	5.8
bb	8.9	4.0
Sl	9.5	3.4

E 1/4 of Abbot st

Sl	9.3	3.6
bb	8.5	4.4
y	6.7	6.2
b	6.5	6.4
y	6.4	6.5
bb	6.6	6.3
nl	6.7	6.2

E bb of abbot st

nl	7.1	5.8
bb	6.6	6.3
y	6.4	6.5
b	6.3	6.6
y	6.7	6.2
bb	8.3	4.6
Sl	9.0	3.9

1293

E S of Abbot st

Sl	9.1	3.8
+3'	7.3	5.6
bh	7.0	5.9
4	6.5	6.4
b	6.2	6.7
4	6.2	6.7
bh	6.8	6.1
nl	7.4	5.5

35' E of Abbot

nl	8.0	4.9
bh	6.2	6.7
4	6.1	6.8
b	5.6	7.3
4	5.6	7.3
bh	6.2	6.7
Sl	6.4	6.5

50' E of Abbot

Sl	8.9	4.0
bh	8.5	4.4
+6'	8.2	4.7
+8'	5.8	7.1
4	5.6	7.3
b	5.2	7.7
4	6.0	6.9
bh	6.3	6.6
nl	7.0	5.9

1293

Newport st

60' E of Abbot st

nl	6.9	6.0
bh	6.0	6.9
4	5.7	7.2
b	5.0	7.9
4	5.6	7.3
+3'	8.0	4.9
~~b~~ +7	8.2	4.7
+10	6.5	6.4
~~bh~~	6.0	6.9
Sl	6.4	6.5

100' E of Abbot st

Sl	4.4	8.5
bh	4.9	8.0
+2'	7.0	5.9
+7	7.4	5.5
+8'	5.6	7.3
4	5.4	7.5
b	4.5	8.4
4	5.2	7.7
bh	5.2	7.7
nl	4.7	8.2

150' E of Abbot

nl	4.1	8.8
bh	5.0	7.9
4	5.0	7.9
b	4.4	7.5
4	4.6	8.3
+3'	4.8	8.1
+8'	6.3	6.6
bh	5.0	7.9
Sl	2.2	10.7

12.93

	156'	E of	abbot (in alley Graded)	
Sl			4,0	8.9
bh			4.7	8.2
+3'			5.0	7.9
+4'			6,2	6.7
+9'			4,9	8.0
1/4			4,6	8.3
	200	E of	abbot st	
Sl			3,8	9.1
bh			4,6	8.3
+4'			5,4	7,5
4			4,7	8.2
b			4.1	8.8
4			4,8	8.1
bh			4,8	8.1
nl			4,8	8.1
	250'	E of	abbot st.	
nl			5,2	7.7
bh			5,2	7.7
4			4,6	8.3
b			4,2	8.7
4			4,5	8,4
bh			4,9	8.0
Sl			4,4	8.5

1293 Newport st

	300' E of		Abbot st	
Sl			4.7	8.2
bh			4,5	8.4
4			4,4	8,5
b			4,0	8,9
4			4,6	8,3
bh			5,0	7,9
nl			5,1	7,8
	350' E of abbot			
nl			4,8	8.1
bh			4,6	8.3
4			4,1	8,8
b			3,7	9.2
4			4,1	8,8
bh			4,4	8,5
Sl			4,3	8,6
TP	6,96	16.14	3,75	9,18
	400' E of Abbot st			
Sl			6,5	9.6
bh			7,2	8.9
4			6,7	9,4
b			6,6	9,5
4			6,9	9,2
bh			7,2	8,9
nl			7.4	8,7

1614

450' E of abbot st

nl	6.7	9.4
bl	6.6	9.5
4	6.2	9.9
l	6.0	10.1
4	6.3	9.8
bl	7.0	9.1
Sl	6.2	9.9

500' E of abbot st

Sl	5.7	10.4
bl	6.2	9.9
4	5.4	10.7
l	5.4	10.7
4	5.8	10.3
bl	6.1	10.0
nl	6.0	10.1

550' E of abbot st

nl	4.9	11.2
bl	5.7	10.4
4	5.0	11.1
l	4.8	11.3
4	5.0	11.1
bl	5.5	10.6
Sl	4.6	11.5

1614

newport st

600' E of ~~Wl~~ of Bacon st (60')

Sl	4.6	11.5
bl	4.5	11.6
4	4.5	11.6
l	4.2	11.9
4	4.5	11.6
bl	5.0	11.1
nl	4.4	11.7

W bl of Bacon st

nl	4.6	11.5
bl	4.4	11.7
4	4.3	11.8
l	4.0	12.1
4	4.3	11.8
bl	4.4	11.7
Sl	4.5	11.6

W 1/4 of Bacon st

Sl	4.4	11.7
bl	4.2	11.9
4	4.2	11.9
l	3.8	12.3
4	4.0	12.1
bl	4.3	11.8
nl	4.3	11.8

16.14

Center of Bacon st

nl	4.0	12.1
bh	4.1	12.0
y	3.8	12.3
b	3.8	12.3
y	4.0	12.1
bh	4.1	12.0
sl	4.2	11.9

Center + 1' = 2' W of RR Rail

sl	4.2	11.9
bh	4.1	12.0
y	4.0	12.1
b	3.8	12.3
y	3.8	12.3
bh	4.1	12.0
nl	4.0	12.1

Elevation of Rail

sl	3.75	12.4
b	3.80	12.3
nl	3.90	12.2

E 1/4 = 2' E of Rail

nl

16.14 Newport st

6

E 1/4 = 2' E of Rail

nl	4.2	11.9
bh	4.1	12.0
tp	3.9	12.2
b	3.8	12.3
y	3.8	12.3
bh	3.9	12.2
sl	4.0	12.1

E bh of Bacon st

sl	3.6	12.5
bh	3.7	12.4
y	3.8	12.3
b	3.5	12.6
y	3.8	12.3
bh	3.8	12.3
nl	4.1	12.0

E line of Bacon st

nl			3.5	12.6
bh			3.5	12.6
y			3.8	12.3
b			3.4	12.7
y			3.8	12.3
bh			4.0	12.1
sl			3.4	12.7
TP	7.38	19.65	3.89	12.21

BM

1965

50' E of Bacon st

sℓ	6.0	13.6
bℓ	{6.5 7.1	(13.4 12.5
4	6.4	13.2
ℓ	6.1	13.5
4	6.5	13.1
bℓ	{7.2 6.8	12.4) 12.8)
nℓ	6.4	13.2

100' E of Bacon st

nℓ	6.0	13.6
bℓ	{6.2 7.0	13.4) 12.6)
4	6.0	13.6
ℓ	5.7	13.9
4	5.8	13.8
bℓ	{6.5 5.7	13.1 13.9)
sℓ	5.6	14.0

150' E of Bacon st

sℓ	5.4	14.2
bℓ	{5.7 6.3	13.9) 13.3)
4	5.5	14.1
ℓ	5.3	14.3
4	5.6	14.0
bℓ	{6.1 5.5	13.5) 14.1)
nℓ	5.7	13.9

1965 Newport st

(200') E of Bacon st

nℓ	5.5	14.1
bℓ	5.9	13.7
4	5.2	13.4
ℓ	4.9	14.7
4	5.0	14.6
bℓ	{5.7) 5.1)	13.9) 14.5)
sℓ	5.0	14.6

250' E of Bacon st

sℓ	4.6	15.0
bℓ	{5.0) 5.5)	14.6) 14.1)
4	4.8	14.8
ℓ	4.4	15.2
4	4.8	14.8
bℓ	{5.5) 4.8)	13.1 14.8
nℓ	5.4	14.2

300' E of Bacon st

nℓ	5.0	14.6
bℓ	{4.6) 5.2)	15.0) 14.4)
4	4.4	15.2
ℓ	4.0	15.6
4	4.4	15.2
bℓ	(5.0) 4.5)	14.6) 15.1)
	4.5	15.1

19.65

350' E of Bacon st

Sl	3.9	15.7
bb	(4.2 4.6)	15.4 15.0)
y	4.2	15.4
b	3.8	15.8
y	4.3	15.3
bb	(5.0 4.5)	14.6) 15.1
nl	4.7	14.9

400' E of Bacon st

nl	4.3	15.3
bb	(4.1 4.7)	15.5) 14.9
y	3.9	15.7
b	3.4	15.2
y	4.0	15.6
bb	(4.4 3.9)	15.2 15.7)
Sl	3.8	15.8

450 E of Bacon st

Sl			3.3	16.3
bb			(3.0 4.0)	16.6) 15.6
y			3.4	16.2
b			3.1	16.5
y			3.4	16.2
bb			(4.2 3.6)	15.4) 16.0
nl			3.8	15.8
Tp	6.33	22.99	2.99	16.66

22.99

Newport st

500' E of Bacon st

nl	6.8	16.2
bb	(6.6 7.2)	16.4) 15.8
y	6.4	16.6
b	6.0	17.0
y	6.3	16.7
bb	(7.0 6.4)	16.0) 16.6
Sl	6.2	16.8

550' E of Bacon st

Sl	5.5	17.5
bb	(5.8 6.5)	17.2) 16.5
y	5.9	17.1
b	5.6	17.4
y	5.9	17.1
bb	(6.6 5.8)	16.4) 17.2
nl	5.9	17.1

600' E = W l of Cabb st (60')

nl	6.1	16.9
bb	(5.7 6.2)	17.3) 16.8
y	5.6	17.4
b	5.0	18.0
y	5.4	17.6
bb	(6.0 5.5)	17.0) 17.5
Sl	5.6	17.4

22.99

W bb of Cable St

Sl	5.5	17.5
bb	(5.5	17.5
	5.8)	17.2
4	5.4	17.6
l	5.0	18.0
4	5.4	17.6
bb	(6.1	16.9
	5.5)	17.5
nl	5.5	17.5

W 1/4 of Cable st

nl	5.6	17.4
bb	(5.6	17.4
	6.0)	17.0
4	5.3	17.7
l	5.0	18.0
4	5.4	17.6
bb	(5.8	17.2
	5.2)	17.8
Sl	5.1	17.9

Center of Cable st

Sl	5.0	18.0
bb	(5.3	17.7
	5.5)	17.5
4	5.3	17.7
b	4.9	18.1
4	5.2	17.8
bb	(6.0	17.0
	5.6)	17.4
nl	5.5	17.5

22.99

Newport ave

E 1/4 of Cable st

nl	5.4	17.6
bb	(4.8	18.2
	5.8)	17.2
4	5.1	17.9
l	4.8	18.2
4	5.2	17.8
bb	(5.7	17.3
	4.8)	18.2
Sl	4.9	18.1

E bb of Cable st

Sl	5.0	18.0
bb	(5.0	18.0
	5.5)	17.5
4	5.2	17.8
l	4.7	18.3
4	5.0	18.0
bb	(5.7	17.3
	5.2)	17.8
nl	5.3	17.7

E line of Cable st

nl	5.4	17.6
bb	(5.1	17.9
	5.6)	17.4
4	4.9	18.1
l	4.6	18.4
4	5.0	18.0
bb	(5.4	17.6
	4.6)	18.4
Sl	5.0	18.0

22.99

50' E of Cabb st

SL	4.5	18.5
bb	4.4 5.0	18.6 18.0
y	4.6	18.4
b	4.2	18.2
y	4.6	18.4
bb	5.1 4.6	17.9 18.4
nL	4.7	18.3

100' E of Cabb st

nL	4.2	18.8
bb	4.3 4.6	18.7 18.4
y	4.1	18.9
b	3.5	19.5
y	4.1	18.9
bb	4.6 3.5	18.4 19.5
SL	4.0	19.0

150' E of Cabb st

SL	3.8	19.2
bb	3.7 4.1	19.3 18.9
y	3.4	19.6
b	3.0	20
y	3.5	19.5
bb	4.1 3.4	18.9 19.6
nL	3.7	19.6

22.99

Newport st

200' E of Cabb st

SL	3.0	20.0
bb	2.7 3.5	20.3 19.5
y	2.8	20.2
b	2.4	20.6
y	3.0	20.0
bb	3.5 2.8	19.5 20.2
nL	3.1	19.9

250' E of Cabb st

nL	2.6	20.4
bb	2.4 3.0	20.6 20.0
y	2.3	20.7
b	1.8	21.2
y	2.3	20.7
bb	2.7 2.4	20.3 20.6
SL	2.3	20.7

TP 7.31 28.48 1.82 21.17

300' E of Cabb st

SL	7.1	21.4
bb	7.0 7.6	21.5 20.9
y	7.0	21.5
b	6.7	21.8
y	6.8	21.7
bb	7.7 7.2	20.8 21.3
nL	7.2	21.3

	350	E of	Cable st	
nl			6,5	22.0
bb			(6,3 7,2)	22.2 21.3
4			6,3	22.2
l			5,8	22.7
4			6,4	22.1
bb			(7,0 6,2)	21.5 22.3
Sl			6,2	22.3
	400'	E of	Cable st	
Sl			5,7	22.8
bb			(5,6 6,2)	22.9 22.3
4			5,8	22.7
l			5,1	23.4
4			5,7	22.8
bb			(6,3 5,7)	22.2 22.8
nl			6.1	22.4
	450	E of	Cable st	
nl			5,3	23.2
bb			(5,2 5,8)	23.3 22.7
4			5,1	23.4
l			4,6	23.9
4			5,1	23.4
bl			(5,7 4,8)	22.8 23.7
Sl			5,0	23.5
Tp	6.89	31.96	3,41	25.07

	500' E of Cable st		
nl		8,2	23.8
bb		(8,2 8,7)	23.8 23.3
4		8,2	23.8
l		7,5	24.5
4		8,0	24.0
bb		(8,5 7,8)	23.5 24.2
Sl		7.9	24.1
	550' E of Cable st		
Sl		7,3	24.7
bb		(7,2 7.9)	24.8 24.1
4		7,4	24.6
l		6,8	25.2
4		7,3	24.7
bb		(8,0 7,4)	24.0 24.6
nl		7.4	24.6
	600' E = W l DeFoe st (60')		
nl		6,9	25.1
bb		(7,0 7,4)	25.0 24.6
4		6,6	25.4
l		6,0	26.0
4		6,6	25.4
bl		7,1	24.9
Sl		6,6	25.4
		6,6	25.4

31.96

W. bb of De Foe St

S L	6.3	25.7
bb	(6.2 7.0)	25.8 25.0
4	6.4	25.6
6	5.9	26.1
x	6.6	25.4
bb	(7.2 6.5)	24.8 25.5
N L	6.7	25.3

W 1/4 of De Foe St

N L	6.7	25.3
bb	(6.5 7.1)	25.5 24.9
4	6.4	25.6
6	5.7	26.3
4	6.3	25.7
bb	(6.7 6.1)	25.3 25.9
S L	5.8	26.2

Center of De Foe st

S L	6.1	25.9
bb	(6.2 6.2)	25.8 25.4
4	6.1	25.9
6	5.6	26.4
4	6.2	25.8
bb	(6.9 6.5)	25.1 25.5
N L	6.7	25.3

31.96

Newport st

E 1/4 of De Foe St

N L	6.3	25.7
bb	(6.5 6.7)	25.5 25.3
4	6.1	25.9
6	5.5	26.5
4	6.0	26.0
bb	(6.5 5.9)	25.5 26.1
S L	5.8	26.2

E bb of De Foe St

S L	5.6	26.4
bb	(5.6 6.3)	26.4 25.7
4	5.8	26.2
6	5.3	26.7
4	5.9	26.1
bb	(6.6 5.6)	25.4 26.4
N L	6.0	26.0

E Line of De Foe st

N L	6.0	26.0
bb	(5.8 6.4)	26.2 25.6
4	5.2	26.8
6	5.7	26.3
4	(6.1 5.2)	25.9 26.8
bb	5.5	26.5

31.96

50' E of De Foe st

S L	4.8	27.2
bb	(4.4	27.6
	5.5)	26.5
g	4.9	27.1
b	4.5	27.5
g	5.1	26.9
bb	(5.5	26.5
	5.0)	27.0
N L	5.0	27.0

100' E of De Foe st

N L	3.8	28.2
bb	(4.0	28.0
	4.6)	27.4
g	4.0	28.0
b	3.5	28.5
g	4.0	28.0
bb	(4.6	27.4
	3.8)	28.2
S L	4.1	27.9

150' E of De Foe st

S L	2.6	29.4
bb	(3.1	28.9
	3.7)	28.3
g	3.0	29.0
b	2.5	29.5
g	2.9	29.1
bb	(3.6	28.4
	2.7)	29.3
N L	3.1	28.9

31.96 Newport st

200' E of De Foe st

N L			2.0	30.0
bb			(1.8	30.2
			2.4)	29.6
g			1.8	30.2
b			1.3	30.7
g			1.8	30.2
bb			(2.6	29.4
			1.9)	30.1
S L			2.2	29.8
TP	12.03	42.25	1.74	30.22

250' E of De Foe st

S L	11.2	31.1
bb	(11.0	31.3
	11.7)	30.6
g	10.8	31.5
b	10.3	32.0
g	10.6	31.7
bb	(11.5	30.8
	10.7)	31.6
N L	11.0	31.3

300' E of De Foe st

N L	9.4	32.9
bb	(9.6	32.7
	10.2)	32.1
g	9.4	32.9
b	9.0	33.3
g	9.7	32.6
bb	(10.5	31.8
	9.9)	32.4
S L	10.2	32.1

42.25

350' E of De Foe st

Sd	8,7	33.6
bb	(8,4 9,3)	33.9 33.0
4	8,6	33.7
b	8,0	34.3
4	8,2	34.1
bb	(8,7 7,6)	33.6 34.7
nd	8,2	34.1

400' E of De Foe st

nd	6,7	35.6
bb	(6,7 7,3)	35.6 35.0
4	7,0	35.3
b	6,7	35.6
4	7,0	35.3
bb	(7,8 7,0)	34.5 35.3
Sd	7,4	34.9

450' E of De Foe st

Sd	5,9	36.4
bb	(5,5 6,0)	36.8 36.3
4	5,2	37.1
b	4,7	37.6
4	5,0	37.3
bb	(5,6 5,2)	36.7 37.1
nd	5,0	37.3

42.25 Newport st

500' E. De Foe st

nd	2,5	39.8
bb	(2,7 3,8)	39.6 38.5
4	2,8	39.5
b	2,4	39.9
4	3,1	39.2
bb	4,0 3,2	38.3 39.1
Sd	3,7	38.6

11.88 53.60 053 4172

550' E of De Foe st

Sd	12,4	41.2
bb	(11,9 13,0)	41.7 40.6
4	11,9	41.7
b	11,0	42.6
4	11,7	41.9
bb	(13,2 12,1)	40.4 41.5
nd	11,2	42.4

600' E = W line of Eber Ste st (60')

nd	8,9	44.7
bb	(9,5 10,9)	44.1 43.7
4	9,2	44.4
b	8,6	45.0
4	9,3	44.3
bb	(10,4 9,7)	43.2 43.9
Sd	9,6	44.0

5360

W bb of Eber St

SL	9,0	44.6
bb	(8,7 10,0)	44.9 43.6
4	8,7	44.9
b	8,0	45.6
4	8,6	45.0
+7'	9,0	44.6
bb	10,2 9,0	43.4 44.6
nL	8,3	45.3

W 1/4 of Eber St

nL	7,9	45.7
bb	(8,5 9,5)	45.1 44.1
7	8,0	45.6
b	7,5	46.1
4	8,2	45.4
bb	(9,2 8,5)	44.4 45.1
SL	8,4	45.2

Center of Eber st

SL	7,7	45.9
bb	(7,7 8,9)	45.9 44.7
7	7,5	46.1
b	6,9	46.9
7	7,5	46.1
bb	(8,7 8,0)	44.9 45.6
nL	7,3	46.3

5360 Newport st

E 1/4 of Eber st

nL	6,7	46.9
bb	(7,3 8,0)	46.3 45.6
7	6,9	46.7
b	6,4	47.2
7	7,0	46.6
bb	(8,3 7,5)	45.3 46.1
SL	7,4	46.2

E bb of Eber st

SL	6,6	47.0
bb	(6,8 7,7)	46.8 45.9
4	6,3	47.3
b	5,7	47.9
4	6,3	47.3
bb	(7,2 6,4)	46.4 47.2
nL	6,2	47.4

E line of Eber st

nL	5,7	47.9
bb	(6,0 6,7)	47.6 46.9
4	5,7	47.9
b	5,1	48.5
4	5,8	47.8
bb	(7,0 6,0)	46.6 47.6
SL	6,0	47.6

53.6

	50'	E of	Eber	
Sl			2.7	50.9
bh			(2.6 3.3)	51.0 50.3
g			2.2	51.4
b			1.6	52.0
4			2.2	51.4
bh			(2.9 2.6)	50.7 51.0
nl			2.4	51.2
TP	12.44	64.24	1.80	51.80
	100	E of	Eber St	
nl			9.7	54.5
bh			9.4	54.8
4			8.9	55.3
b			8.5	55.7
4			8.9	55.3
bh			9.4	54.8
Sl			8.8	55.4
	150'	E of	Eber St	
Sl			4.9	59.3
bh			4.9	59.3
4			4.1	60.1
b			3.7	60.5
4			4.3	59.9
bh			5.3	58.9
nl			6.1	58.1

64.24

Newport st

	200'	E of.	Eber St		
nl			2.2		62.0
bh			0.7		63.5
TP	12.77	77.01	0.0	64.24	
4			12.3		64.7
b			11.5		65.5
4			11.8		65.2
bh			12.7		64.3
+5'			13.6		63.4
Sl			13.1		63.9
	250'	E of	Eber St		
Sl			8.8		68.2
+3'			10.2		66.8
+6'			10.0		67.0
+7'			9.0		68.0
bh			7.9		69.1
4			6.6		70.4
b			6.7		70.3
4			7.4		69.6
+11'			8.4		68.6
bh			9.7		67.3
+2'			10.4		66.6
nl			11.8		65.2

		77.01		
	300'	E of	Eber st	
n l			7.5	69.5
+10			6.5	70.5
bb			4.0	73.0
+1'			3.4	73.6
1/4			2.4	74.6
c			1.5	75.5
4			1.8	75.3
bb			2.5	74.5
+4'			4.2	72.8
S l			4.1	72.9
TP	12.97	89.61	0.37	76.64
	350'	E of	Eber St	
S l			12.1	77.5
+11'			13.3	76.3
bb			10.1	79.5
4			9.5	80.1
c			9.2	80.4
4			10.0	79.6
bb			11.6	78.0
+4'			14.7	74.9
n l			15.5	74.1

Newport st

		89.61		
	400'	E of	Eber St	
n l			10.6	79.0
+10'			9.4	80.2
bb			6.0	83.6
4			5.2	84.4
c			4.5	85.1
4			4.8	84.8
bb			5.3	84.3
+4'			8.2	81.7
+8'			8.8	80.8
S l			7.7	81.9
	450'	E of	Eber st	
S l			0.1	89.5
bb			1.4	88.2
+2'			0.3	89.3
TP	12.73	101.85	0.49	89.12
1/4			12.1	89.8
c			11.8	90.1
4			12.6	89.3
bb			13.3	88.6
+5			16.4	85.5
n l			16.7	85.2

		101.85		
	500'	E of	Eber st	
nl			9.0	92.9
bl			7.8	94.1
¼			7.5	94.4
c			6.8	95.1
¼			7.1	94.8
+11'			8.0	93.9
bb			6.4	95.5
Sl			6.0	95.9
	550'	E of	Eber st	
Sl			1.5	100.4
bb			1.8	100.1
+3'			3.3	98.6
¼			2.5	99.4
c			2.2	99.7
¼			2.5	99.4
bb			3.0	98.9
+3'			1.6	100.3
nl			1.9	100
TP	11.47	113.15	0.17	101.68

	113.15		Newport st
	600' E =	W line of	Fonda st (60)
nl		8.6	104.6
+12'		8.8	104.4
bb		9.7	103.5
+4'		10.1	103.1
¼		9.5	103.7
c		8.9	104.3
¼		9.4	103.8
bb		9.9	103.3
+2'		8.0	105.2
Sl		7.3	105.9
	W cb of	Fonda st	
Sl		6.5	106.7
+6'		7.0	106.2
bb		8.4	104.8
+2'		9.4	103.8
¼		8.8	104.4
c		8.3	104.9
¼		8.9	104.3
+9'		9.5	103.7
bb		8.8	104.4
nl		7.5	105.7

113.15

W 1/4 of Frande st

n l	6,8	106.4
~~bb~~ +12'	6,8	106.4
bb	8,6	104.6
y	8,3	104.9
b	7.8	105.4
y	8,2	105.1
+11	8,6	104.6
bb	6,5	106.7
+2'	5,5	107.7
S l	4,9	108.3

Center of Frande

S l	4,0	109.2
bb	(5,0 7,8)	108.2 105.4
y	7,6	105.6
b	7,2	106.0
y	7,8	105.4
bb	8,1	105.1
+2'	5,6	107.6
n l	6,3	106.9

113.15

Newport st

E 1/4 of Fron de st

n l	6,0	107.2
+12'	5,3	107.9
bb	7,4	105.8
y	7,4	106.0
b	6,7	106.5
y	7,0	106.2
+12'	7,2	106.0
bb	4,2	109.0
S l	3,2	110.0

E bb of Frau de st

S l	1,8	111.4
bb	(3,2 6,8	110.0 106.4
44	6,5	106.7
b	6,2	107.0
y.	6,7	106.5
bb	7,0	106.0
+2'	5,1	108.1
n l	5,6	107.6

113.15

E line of Froude st

nl			5.2	108.0
+12'			4.0	109.2
bb			6.3	106.9
4			6.0	107.2
c			5.6	107.6
4			5.9	107.3
+12			6.2	107.1
bb			2.4	110.8
TP	8.62	121.77	0.0	113.15
sl			9.0	112.8

50' E of Froude

sl	3.9	117.9
bb	5.9	115.9
+2'	11.6	110.2
4	11.0	110.8
c	10.9	110.9
4	11.4	110.4
bb	(11.9)	109.9
	7.0	114.8
Ft Lin	7.4	114.4

121.77 Newport st

100' E of Froude st

nl			1.1		120.7
bb			0.5		121.3
+1'			8.2		113.6
4			7.0		114.8
c			6.3		115.5
4			6.4		115.4
+9'			7.0		114.8
+11'			5.7		116.1
	11.60	132.67	0.70	121.07	
bb			9.4		123.3
sl			8.4		124.3

150' E of Froude st

sl	2.4	130.3
bb	3.5	129.2
+2'	12.6	120.1
4	12.4	120.3
c	12.4	120.5
4	13.0	119.7
bb	13.4	119.3
+6'	7.0	125.7
nl	7.4	125.3

132.67

	175'	E of	Frande st		
nl			5.1		127.0
bb			(5.0 11.0)		125.7 121.7
'44			10.7		122.0
¢			10.0		122.8
4			10.2		122.5
+10'			10.7		122.0
bb			8.0		124.7
+1'			1.0		131.7
sl			+0.4		133.6
	185'	E of	Frande st		
sl			+2.6		135.3
bb			9.7		123.0
4			9.2		123.5
¢			8.9		123.8
4			9.6		123.1
bb			(10.0 4.0)		122.7 128.7
nl			4.5		128.2

132.67 Newport st

	200'	E of	Frande st		
nl			3.0		129.7
bb			(3.0 8.6)		129.7 124.1
4			8.0		124.7
¢			7.3		125.5
4			7.7		125.0
bb			8.2		124.5
+8'			6.8		125.9
TP	12.44	143.48	1.63	131.04	
+11'			7.0		136.5
sl			6.8		136.7
	250'	E of	Frande st		
sl			1.1		142.4
+2'			1.1		142.4
+6'			13.6		130.0
bb			13.7		129.8
+6'			13.2		130.3
4			13.0		130.5
¢			12.7		130.8
4			13.3		130.2
bb			(14.1 5.2)		129.4 138.3
nl			4.6		138.9
TP	5.83	148.32	0.99	142.49	nl

		148.32		
	300	E of	Froude st	
S L			2,0	146.3
+2'			2,2	146.1
+5'			13,6	134.7
bb			13.4	134.9
y			12,7	135.6
b			12,6	135.7
y			13,3	135.0
bb			14,4	133.9
+'			4,5	143.8
n L			5,0	143.3
T P	5.95	152.64	1.63	146.69
	350'	E of	Froude st	
S L			1,9	150.7
+2'			1,9	150.7
+5'			12,2	140.4
bb			12,8	139.8
y			12,3	140.3
b			12,0	140.6
y			12,7	139.9
+11'			13,3	139.3
bb			5,7	146.9
+4'			4,4	148.2
			4,6	148.0

		152.64		Newport st
	400'	E of	Froude st	
n L			2,4	150.2
bb			1,5	151.1
+1			9,0	143.6
y			8,1	144.5
b			7,4	144.2
y			7,8	144.8
bb			7,8	144.8
+7'			7.7	144.9
TP	6.53	158.24	0,93	151.71
+11			2.2	156.0
S L			2,1	156.1
	410'	E of	Froude st	
S L			1,5	156.7
bb			2,5	155.7
+2'			13,2	145.0
y			12,5	145.7
b			12,1	146.1
y			12,7	145.5
+12'			13,9	144.3
bb			7.4	150.8
n L			8,5	149.7

		158.24		
	425'	E of	Frande st	
nl			9.0	149.2
bb			(7.6 11.9)	150.4 146.3
g			11.2	147.0
c			10.6	147.6
g			11.1	147.1
+11'			11.7	146.5
bb			2.0	156.0
sl			0.7	157.5
TP	4.80	161.44	1.60	156.64
	445	E of	Frande st	
sl			2.0	159.4
bb			3.3	158.1
+1'			3.3	158.1
+3'			12.9	148.5
g			12.8	148.6
c			12.1	149.3
g			12.7	148.7
bb			13.3	148.1
+2'			9.2	152.2
nl			10.5	150.9

Newport st

		161.44		
	450'	E of	Frande st	
nl			9.9	151.5
bb			(8.7 12.7)	152.7 148.7
g			12.3	149.1
c			11.6	149.8
g			12.0	149.4
+11'			12.3	149.1
bb			11.0	150.4
+7'			1.8	160.6
sl			1.4	160.0
TP	7.51	167.27	1.68	159.76
	500'	E of	Frande st	
sl			0.0	167.3
+2'			12.8	154.5
bb			13.3	154.0
g			13.0	154.3
c			12.7	154.6
g			13.2	154.1
bb			14.0 8.6	153.3 158.7
+1'				
nl			10.3	157.0

		167.27		
	550'	E of	Froude	st
nl			9,4	157.9
bb			5,7	161.6
+1'			8,4	158.9
¼			8,1	159,2
℄			8,0	159.3
¼			8,2	159.1
bb			8,8	158.5
+8'			3.1	164.2
TP	9,61	176.82	0,06	167.21
+12'			2,8	174.0
SL			2,8	174.0
	575'	E of	Froude	
SL			2,0	174.8
+12'			4,5	172.3
TP	0,60	174.57	2,85	173.97
bb			12,2	162.4
+4			14,1	160.5
¼			13,6	161.0
℄			13,0	161.6
¼			13,2	161.4
bb			13,6	161.0
+2'			13,0	161.6
nl			16,9	157.7

Newport st

(Newport offsets 2.5' to S line)

	174.57		
	600' E = W line	Guyot (60')	
nl		17,3	157.3
bb		12,2	162.4
+2'		11,7	162.9
¼		11,7	162.9
℄		11,5	163.1
¼		11,9	162.7
+11		12,3	162.3
bb		3,9	170.7
SL		0,8	173.8
	W bb of	Guyot st	
SL		1,9	172.7
+13'		4,7	
bb		5,6	
+3'		11,8	
¼		11,4	
℄		11,1	173.5
¼		11,3	
+12		11,6	
bb		12,0	
nl		16,2	158.4

174.57

E 1/4 of Guyot st

nl	14.2	
bh	11.6	
1/4	11.1	
c	10.9	
1/4	11.0	
+11'	11.5	
bh	5.9	
sl	2.4	

Center of Guyot st

sl	2.8	171.8
bh	7.0	
+1'	11.2	
4	10.6	
c	10.5	164.1
4	10.9	
bh	11.2	
nl	13.0	161.6

174.57 Newport st

E 1/4 of Guyot st

nl	12.7
bh	11.0
4	10.7
c	10.3
4	10.4
+10'	10.8
bh	7.6
sl	3.5

E bh of Guyot st

sl	4.1
bh	9.2
+2'	10.3
4	10.0
c	10.1
4	10.6
bh	10.9
nl	12.5

17457 ✓ to map Santa Barbara

E Line of Guzot st

3 L	10.4	164.2
bh	10.5	
4	10.5	
b	10.0	164.6
4	9.6	
+10'	10.0	
bh	9.1	
5 L	5.4	169.2

Cross-Section "A" St. 2d to 4th

5 Davis
15 Williams
10 Hancock

6.40	H.I. 61.91		55.51 B.M. N.W. 2d A

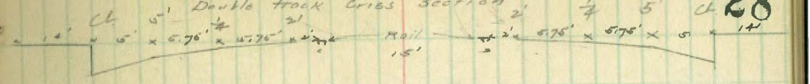
E. line - 2d

No	6.2	55.7
Ct.	6.5	55.4
Gutr	6.7	55.2
+ 5	6.7	55.2
¼	6.4	
C	6.6	55.3
¼	7.1	
5'	7.5	54.4
Gutr	7.7	54.2
Ct	7.0	54.7
So	6.9	55.0

25' E 2d

So	6.3	55.6
Ct.	6.4	55.5
Gtr	7.0	54.9
5	6.8	55.1
¼	6.3	
C	5.9	56.0
¼	6.1	
5'	6.0	55.6
Gutr	6.5	55.4
Ct	5.9	56.0
No	5.5	56.4

Double track Criss section



Cross-Section - N. tracks

50' E 2d

No	4.8	57.1
Ct.	5.3	56.6
Gutr	5.9	56.0
5'	5.8	56.1
¼	5.5	
C	5.3	56.6
¼	5.6	
5'	6.1	55.8
Gutr	6.4	55.5
Ct	5.8	56.1
So	5.6	56.3

75' E 2d

So	4.9	57.0
ct.	5.3	56.6
Gutr	5.7	56.2
5'	5.5	56.4
½	4.9	
C	4.6	57.3
½	4.8	
5'	5.1	56.8

61.91

75' E 2d

No. Gutr	5.2	56.7
ct.	4.7	57.2
No	3.9	58.0

100' E 2d

No	3.5	58.4
ct	4.1	57.8
Gutr	4.8	57.1
5'	4.5	57.4
¼	4.1	
c	3.9	58.0
¼	4.4	
5'	4.9	57.0
Gutr	5.2	56.7
ct.	4.7	57.2
So	4.5	57.4

125' E 2d

So	3.7	58.2
ct	4.0	57.9
Gutr	4.5	57.4
5'	4.3	57.6
¼	3.8	
c	3.2	58.7
¼	3.6	
5'	3.9	58.0
Gutr	4.3	57.6
ct	3.4	58.5
No	3.1	58.8

150' E 2d

N.	2.2	59.7
ct	2.8	59.1
Gutr	3.6	58.3
5'	3.1	58.8
¼	2.8	59.1
c	2.7	59.2
¼	3.2	
5'	3.6	58.3
Gutr	3.8	58.1
ct	3.3	58.6
So	3.1	58.8

175' E 2d

So	2.4	59.5
ct	2.6	59.3
Gutr	3.1	58.8
5'	2.9	59.0
¼	2.5	
c	2.2	59.7
¼	2.3	
5'	2.4	59.5
Gutr	2.7	59.2
ct	2.1	59.8
N.	1.4	60.5

61.91

300' E 2d = W.L. 3d

N.	1.2	60.7
ct	1.5	60.4
Gutr	2.1	59.8
5'	1.9	60.0
½	1.7	
c	1.8	60.1
½	2.1	
5'	2.5	59.4
Gutr	2.5	59.4
ct	1.9	60.0
S.	1.8	60.1

5.05 64.78 2.18 59.73

E. L. 3d

So	4.2	60.6
ct	4.4	60.4
Gutr	5.0	59.8
5'	4.9	59.9
½	4.7	
C	4.3	60.5
½	4.2	
5	4.2	60.6
Gutr	4.1	60.7
ct	3.8	61.0
No	3.5	61.3

25' E 3d

N.	3.5	61.3
ct	3.9	60.9
Gutr	4.4	60.4
5'	4.4	60.4
½	4.4	
C	4.3	60.5
½	4.6	
5'	5.2	59.6
Gutr	5.3	59.5
ct	4.7	60.1
So	4.7	60.1

50' E 3d

So	4.6	60.2
ct	4.9	59.9
Gutr	5.4	59.4
5'	5.3	59.5
½	4.8	
C	4.5	60.3
½	4.5	
5'	4.5	60.3
Gutr	4.5	60.3
ct	4.0	60.8
N.	3.5	61.3

64.78

75' E 3d

No	3.8	61.0
ct	4.1	60.7
Cntr	4.6	60.2
5'	4.7	60.1
1/4	4.7	
0	4.7	60.1
1/4	5.0	
5'	5.5	59.3
Cntr	5.7	59.1
ct	5.2	59.6
S.	4.8	60.0

100' E 3d

S.	5.0	59.8
ct	5.3	59.5
Cntr	5.9	58.9
5'	5.7	59.1
1/4	5.1	
0	4.9	59.9
1/4	4.7	
5'	4.7	60.1
Cntr	4.8	60.0
Ct	4.7	60.7
N.	3.6	61.2

125' E 3d

N.	2.2	62.6
1/4	3.9	60.9
ct	4.2	60.6
Cntr	4.9	59.9
5'	4.9	59.9
1/4	4.8	
0	5.0	59.8
1/4	5.5	
5'	6.0	59.8
Cntr	6.2	58.6
ct.	5.5	59.3
S.	5.2	59.6

150' E 3d

S.	5.4	59.4
ct	5.7	59.1
Cntr	6.5	58.3
5'	6.2	58.6
1/4	5.6	
0	5.2	59.6
1/4	5.0	
5'	5.0	59.8
Cntr	4.9	59.9
ct	4.4	60.4
No	4.0	60.8

64.78

175' E 3rd

No	2.8	62.0
+4	4.1	60.7
ct	4.3	60.5
Gutr	5.2	59.6
5'	5.1	59.7
½	5.3	
0	5.3	59.5
½	5.9	
5'	6.3	58.5
Gutr	6.7	58.1
ct	6.0	
So	5.8	

300' E = W.L. 4th

So	6.0		
ct	6.3		
Gutr	6.7	58.1	
5'	6.5	58.3	
¼	6.0		
0	5.5	59.3	
¼	5.2		
5	4.8	60.0	
Gutr	4.6	60.2 9.5	
Ct.	4.3	60.5	
No	4.0	60.8	
BM. N. W 4 & A	4.34	60.44 ✓	60.44

Cross Section 3rd St. Ash to B

	3.69 74.10		7.41 BM S W 3rd & Ash
	So line Ash St.		
W.		3.5	70.6
ch.		3.7	70.4
Gutr		4.1	70.0
5'		3.8	70.3
¼		3.2	
2'		2.8	71.3
2'		2.9	71.2
¼		3.0	
5'		3.3	70.8
Gutr		3.5	70.6
cl.		3.7	70.4
E		3.5	70.6
	25' S.		
E		3.2	70.9
cl		3.6	70.5
Gutr		4.6	69.5
5'		4.2	69.9
½		3.9	
2'		3.8	70.3
2'		3.8	70.3
¼		4.0	70.1
5'		4.5	69.6
Gutr		4.6	69.5
cl		4.4	69.7
W		4.3	69.9

	50' S.		
W		5.1	69.0
cl		5.1	69.0
Gutr		5.6	68.5
5'		5.3	68.8
½		4.6	
5'		4.5	69.6
2'		4.7	69.4
¼		4.7	
5'		5.0	69.1
Gutr		5.2	68.9
cl.		4.5	69.6
E		4.2	69.9
	75' S.		
E		5.1	69.0
cl.		5.4	68.7
Gutr		6.3	67.8
5'		5.9	68.2
¼		5.6	
2'		5.5	68.6
2'		5.4	68.7
½		5.6	
5'		6.0	68.2
Gutr		6.4	67.7
cl.		5.8	68.3
W		5.9	68.2

	74.10			
	100' So Ash			
W.		6.7	67.4	
Ct.		6.6	67.5	
Cntr		7.2	66.9	
5'		7.0	67.1	
¼		6.4		
2'		6.3	67.8	
2'		6.3	67.8	
¼		6.4		
5'		6.6	67.5	
Cntr		7.0	67.1	
Ct		6.3	67.8	
E		6.1	68.0	
	125' So.			
E		6.6	67.5	
Ct.		7.2	66.9	
Cntr		8.2	65.9	
5'		7.5	66.6	
½		7.3		
2'		7.2	66.9	
2'		7.0	67.1	
¼		7.3	66.8	
5'		7.8	66.3	
Cntr		7.9	66.2	
Ct		7.4	66.7	
W		7.3	66.8.	

		1+1		
T.P.	1.52	67.40	8.42	65.88
		150' So		
W			1.5	65.9
Ct.			1.5	65.9
Cntr			2.0	65.4
5'			1.9	65.5
¼			1.4	
2'			1.2	66.2
2'			1.3	66.1
¼			1.7	
Cntr			2.4	65.0
Ct			1.4	66.0
E			1.0	66.4
		175' S.		
E			1.8	65.6
Ct			2.3	65.1
Cntr			3.4	64.0
5'			2.5'	64.9
¼			2.3	65.1
2'			2.2	65.2
2'			2.1	65.3
¼			1.9	
5'			2.6	64.8
Cntr			3.0	64.4
Ct			2.4	65.0
W			2.2	65.2

67.40

200' So Ash St

W	30	644
ct	3.3	64.1
Gutr	39	63.5
5'	37	63.7
½	2.2	
2'	2.9	64.5
2'	3.1	64.3
¼	3.2	
5'	34	64.0
Gutr	44	63.0
ct	3.1	64.3
E	2.6	64.8

225' S.

E	3.8	63.6
ct	3.9	63.5
Gutr	5.0	62.4
5'	4.3	63.1
¼	4.1	
2'	3.9	63.5
2'	3.8	63.6
¼	4.0	
5'	4.4	63.0
Gutr	4.9	62.5
ct	4.2	63.2
W	4.1	63.3

250' So

W	4.9	62.5
ct	5.2	62.2
Gutr	5.8	61.6
5'	5.5	61.9
½	4.9	
2'	4.5	62.9
2'	4.7	62.7
¼	4.8	
5'	5.0	62.4
Gutr	5.5	61.9
ct	4.7	62.7
E	4.5	62.9

275' S.

E	5.4	62.0
ct	5.5	61.9
Gutr	6.1	61.3
5'	5.8	61.6
¼	5.6	
2'	5.5	61.9
2'	5.5	61.9
¼	5.9	
5'	6.3	61.1
Gutr	6.5	60.9
ct	6.1	61.3
W	5.6	61.8

67.40

300' S. Ash - N. line A

W			6.7	60.7
Ct			6.9	60.5
Gutr			7.1	60.3
5'			6.9	60.5
1/4			6.1	
2'			6.2	61.2
2'			6.1	61.3
1/4			6.1	
5'			6.5	60.9
Gutr			6.6	60.8
Ct			6.3	61.1
E			6.1	61.3
	0.59	61.03	6.94	60.46✓ 60.44 BMN & CL

No. CL A

E	0.1 0.3	60.9 60.7
CL	0.6	60.4
+5	0.5	60.5
1/4	0.0	
2'	0.0	61.0
2'	0.0	61.0
1/4	0.1	
5	0.7	60.3
CL	1.1	59.9
W	0.6 1.2	60.4 59.8

No. 5' line

W	1.0	60.0
CL	0.9	60.1
+5	0.6	60.4
1/4	0.1	60.9
2'	0.0	61.0
2'	0.0	61.0
1/4	0.1	
5'	0.5	60.5
CL	0.8	60.2
E	0.5	60.5

N. 1/4

E	0.4
	1.0
5'	0.4
1/4	0.2
2'	0.2
2'	0.2
1/4	0.2
5'	0.6
CL	0.6
W	0.8

61.03

Ctr "A"

N	0.9	60.1
cl	1.1	59.9
5'	1.0	60.0
¼	0.7	
2'	0.2	60.8
2'	0.4	60.6
¼	0.5	60.5
5'	1.0	60.0
cl	1.2	59.8
E	0.5	60.5

So ¼ A

E	0.9
cl	1.3
5'	1.1
¼	0.7
2'	0.5
2'	0.2
¼	0.9
5'	1.2
cl	1.3
W	1.2

So 5' line A

W	1.6	59.4
cl	1.5	59.5
5'	1.4	59.6
¼	1.0	60.0
2'	0.4	60.6
2'	0.6	60.4
¼	0.8	
5'	1.3	59.7
cl	1.3	59.7
E	1.2	59.8

S. cl A

E	1.2 0.6	59.8 60.4
cl	1.5	59.5
5'	1.2	59.8
¼	0.9	
2'	0.6	60.4
2'	0.6	60.4
¼	1.2	
5'	1.5	59.5
cl	1.8	59.2
W	1.5 1.0	59.5 60.0

		61.03		

S. line A

W			0.9	60.1
Cr			1.1	59.9
Gutr			1.8	59.2
5'			2.0	59.0
¼			1.6	59.4
2'			1.1	59.9
2'			1.0	60.0
¼			1.2	
5'			1.7	59.3
Gutr			1.7	59.3
Cr			0.7	60.3
E			0.4	60.6

25' So

E			2.5	58.5
Cr			2.8	58.2
Gutr			3.3	57.7
5'			3.1	57.9
¼			2.9	
2'			2.7	58.3
2'			2.6	58.4
¼			3.2	
5			3.7	57.3
Gutr			4.0	57.0
Cr			3.3	57.7
W			3.3	57.7

50' So A

W			5.5	55.5
Cr			5.4	55.6
Gutr			5.9	55.1
5'			5.7	55.3
¼			5.4	
2'			5.0	56.0
2'			5.0	56.0
¼			5.1	
5'			5.2	55.8
Gutr			5.3	55.7
Cr			4.8	56.2
E			4.6	56.4

75' So A

E			6.5	54.5
Cr			6.9	54.1
Gutr			7.7	53.3
5'			7.3	53.7
¼			7.3	
2'			7.1	53.9
2'			7.1	53.9
¼			7.6	
5'			7.8	53.2
Gutr			8.2	52.8
Cr			7.6	53.4
W			7.6	53.4
T.P.	1.70	52.69	10.04	50.99

52.69

100' S. A

W	1.7	51.0
cl	1.6	51.1
Cntr	2.1	50.6
5'	1.8	50.9
¼	1.6	
2'	1.0	51.7
2'	0.8	51.9
¼	1.0	51.7
5'	1.4	51.3
Cntr	1.5	51.2
cl	0.6	521
E	0.5	52.2

125' S. A

E	2.6	50.1
cl	2.7	50.0
Gtr	3.4	49.3
5'	3.0	49.7
¼	2.8	
2'	3.0	49.7
2'	3.0	49.7
¼	3.5	49.2
5'	3.9	48.8
Cntr	4.2	48.5
cl	3.7	49.0
W	3.9	48.8

150' S

W	5.7	47.0
cl	5.7	47.0
Gtr	5.7	47.0
5'	5.1	47.6
¼	4.8	
2'	4.7	48.0
2'	4.6	48.1
¼	4.3	
5'	4.5	48.2
Cntr	5.1	47.6
cl	4.6	48.1
E	4.4	48.3

175' S.

E	5.1	47.6
cl	5.2	47.5
Gtr	5.6	47.1
5'	5.4	47.3
¼	5.2	
2'	5.4	47.3
2'	5.5	47.2
¼	5.7	
5	6.0	46.7
Gtr	6.2	46.5
cl	6.2	46.5
W	6.1	46.6

57.69

200' So. A.

w'	6.6	46.1
cl	6.6	46.1
Gtr	6.6	46.1
5'	6.3	46.4
¼	6.2	
3'	6.1	46.6
2'	6.0	46.7
¼	5.9	
5'	6.3	46.4
Gtr	6.1	46.6
Cl	5.6	47.1
E	5.4	47.3

225' S.

E	5.8	46.9
cl	6.1	46.6
Gtr	6.6	46.1
5'	6.5	46.2
¼	6.3	
3'	6.5	46.2
2'	6.5	46.2
¼	6.8	
5'	7.0	45.7
Gtr	7.3	45.4
cl	7.0	45.7
W	7.2	45.5

250' So

w'	7.4	45.3
cl	7.4	45.3
Gtr	7.5	45.2
5'	7.5	45.2
¼	7.4	
2'	7.1	45.6
2'	6.9	45.8
¼	6.9	
5'	6.7	46.0
Gtr	6.9	45.8
cl	6.4	46.3
E	6.1	46.6

275' S.

E	6.8	45.9
cl	6.8	45.9
Gtr	7.5	45.2
5'	7.1	45.6
¼	7.1	
2'	7.3	45.4
2'	7.5	45.2
¼	7.5	
5'	7.9	44.8
Gtr	7.9	44.8
cl	7.7	45.0
w'	8.0	44.7

5-2-69

300' S. = N.L. "B"

W	8.0	44.7
ct	8.2	44.5
Gtr	8.8	43.9
5'	8.4	44.3
¼	8.1	
2'	7.9	44.8
2'	7.8	44.9
¼	7.7	
5'	7.9	44.8
Gtr	8.0	44.7
Ct	7.3	45.4
E	7.2	45.5

Cross-Section 16th St "E" to "G"

5 Davis
18 Williams
10 Hancock

	1.66	H.I. 44.50		42.84 BM N.W. N° F
		No. line "F"		
E			1.2	43.3
ct			1.2	43.3
¼			1.3	43.2
c			2.0	42.5
¼			1.9	42.6
ct.			1.4	43.1
W			1.0	43.5
		10' No.		
W			0.9	43.6
ct			1.4	43.1
¼			2.1	42.4
c			1.9	42.6
¼			3.4	41.1
+9			6.1	38.4
ct			4.7	39.8
+4			3.0	41.5
E			3.0	41.5

	25' No.	
E	4.3	40.2
ct.	7.0	37.5
¼	4.0	40.5
c	3.0	41.5
¼	2.6	41.9
ct.	1.3	43.2
W.	0.8	43.7
	50' No.	
W	0.8	43.7
ct	1.5	43.0
+6	3.5	41.0
¼	3.6	40.9
c	3.9	40.6
+5	4.4	40.1
¼	8.3	36.2
+5	9.7	34.8
ct	10.4	34.1
+7	10.2	34.3
E	5.5	39.0
+3	4.4	40.1
+10	4.5	40.0

44.5°.

75' N.

10'E.	5.7	38.8
E	7.2 9.6	37.3 34.9
Cl.	10.4	34.1
+7	9.5	35.0
1/4	7.7	36.8
+6	5.3	39.2
C	4.4	40.1
1/4	5.0	39.5
+4	6.0	38.5
+7	2.7	41.8
Cl	1.9	42.6
W.	1.5	43.0

100' N.

W	1.5	43.0
Cl	1.7	42.8
1/4	2.7	41.8
+4	3.3	41.2
C	5.1	39.4
+8	4.5	40.0
1/4	7.0	37.5
+7	9.7	34.8
Cl.	10.4	34.1
E	10.6	33.9
+3	7.5	37.0
+15	6.0	38.5

125' N.

15'E	6.1	38.4
10'E	7.0	37.5
4'E	8.1 9.7	36.4 34.8
E	9.8	34.7
+4	9.1	35.4
Cl.	9.4	35.1
+7	8.8	35.7
1/4	6.9	37.6
+9	6.3	38.2
C	3.6	40.9
+3	3.0	41.5
1/4	2.4	42.1
Cl.	1.7	42.8
W.	1.5	43.0

150' N.

W	1.4	43.1
Cl.	1.8	42.7
1/4	2.0	42.5
C	2.5	42.0
+4	2.8	41.7
+9	7.6	36.9
1/4	7.7	36.8
+6	8.1	36.4
Cl	8.9	35.6
E	8.9	35.6

		44.50		
		150'N.		
7'E.+EL			8.8	35.7
25' " " "			6.2	38.2
		175'N.		
25'E			7.0	37.5
E			7.7 9.4	36.8 35.1
Cl			8.2	36.3
+8			8.3	36.2
¼			7.9	36.6
+4			7.5	37.0
+16			2.2	42.3
C			1.2	43.3
¼			1.3	43.2
d.			1.0	43.5
W.			0.8	43.7
T.P.	6.73	50.28	0.95	43.55
		200'N.		
W.			5.4	44.9
d.			5.8	44.5
¼			6.0	44.3
+7			6.0	44.3
c			9.4	40.9
+8			13.4	36.9
¼			131	37.2
d			13.2	36.9
E			14.2 12.0	36.1 38.3

	200'N.	
25'E.	11.8	38.5
	225'N.	
25'E	11.1	39.2
4'E	11.5	38.8
E	12.8	37.5
Cl.	13.1	37.2
¼	12.9	37.4
+7	12.2	37.1
C	8.3	42.0
+6	5.3	45.0
¼	5.2	45.1
Cl.	5.3	45.0
W.	6.0	45.3
	250'N.	
W	4.7	45.6
Cl.	4.6	45.7
¼	4.6	45.7
+8	4.3	46.0
C	8.0	42.3
+5	9.3	41.0
+10	12.8	37.5
¼	12.7	37.6
Cl.	13.4	36.9
E	13.1	37.2
+2	11.2	39.1
25'E	10.5	

50.28

210' No. of "F"

25' E	10.0	40.3
3' E	11.0	39.3
E	12.1	38.2
Cl	12.8	37.5
¼	12.3	38.0
C	8.1	42.2
+6	4.6	45.7
¼	4.2	46.1
Cl	3.3	47.0
W	3.7	46.6

295' No.

W	3.8	46.5
+7	2.2	48.1
Cl	1.4	48.9
¼	3.4	46.9
C	5.6	44.7
¼	5.7	44.6
Cl	5.5	44.8
E	4.5	45.8
10' E	4.0	46.3

30' No = So. line "F" St.

E	0.0	50.3
Cl	0.2	50.1
¼	0.1	50.2
C	0.1	50.2
¼	0.1	50.2
Cl	0.5	49.8
W	0.1	50.2

0.52 H.I. 43.36 42.84 BM NNE

So. line "F" St.

W	0.1	43.3
Cl	0.5	42.9
¼	0.6	42.8
C	0.4	43.0
¼	0.7	42.7
Cl	1.3	42.1
E	0.4	43.0

9' So.

E	1.2	42.2
+11	1.5	41.9
Cl	2.6	40.8
¼	6.4	37.0
C	6.7	36.7
¼	6.5	36.9
+12	8.5	34.9
Cl	7.2	36.2

43-36

9' S.

W.L	3.9	39.5
	1.6	41.8
10'W	4.3	42.1

17' S.

10'W	2.0	41.4
W	2.6	40.7
	7.4	36.0
Ch.	8.7	34.7
¼	8.9	34.5
c	8.9	34.5
¼	54	38.0
Ch	32	40.2
+3	2.1	41.3
E	1.8	41.6

25' S.

E	2.6	40.8
+11	2.6	40.8
cl	3.7	39.7
+4	4.8	38.6
¼	5.3	38.1
c	9.2	342
½	9.2	34.2
cl.	9.3	34.1
W	9.1	34.2
	4.2	39.1
10'W	34	40.0

50' S.

10'W	64	37.0
	7.0	36.4
W	9.6	39.8
cl.	9.8	33.4
½	10.2	33.1
c	9.8	33.6
+7	6.6	36.8
½	5.8	37.6
cl.	4.5	38.9
E	3.6	39.8

75' S.

E	3.7	39.7
cl.	4.0	39.4
¼	5.9	37.5
+8	6.2	37.2
c	8.1	35.3
+2	10.1	33.3
¼	10.6	32.8
ck	10.3	33.1
W	9.7	33.7
	7.8	35.6
10W	7.6	35.8

43-36

100' So F

W- No slope			10.5	32.9
ch.			10.5	32.9
¼			11.0	32.4
+10			10.4	33.0
c			8.9	34.5
+12			7.6	35.8
¼			5.9	37.5
ch.			4.9	38.5
E			4.0	39.4

125' So F

E			3.9	39.5
ch.			4.6	38.8
¼			5.9	37.5
+2			7.6	35.8
+10			10.7	32.7
c			10.7	32.7
¼			11.1	32.3
ch			11.4	32.0
W - No Slope			11.0	32.4
T.P.	8.29	40.11	11.54	31.82

150' So F

10' W	8.7	31.4
W	8.6	31.5
ch.	8.4	31.7
¼	9.0	31.6
+3	8.1	32.0
+6	9.2	30.9
C	7.7	32.4
+7	6.6	33.5
¼	3.0	37.1
ch.	1.8	38.3
E	0.6	39.5

175' So

E	1.1	39.0
ch.	1.8	38.3
+7	2.0	38.1
¼	3.8	36.3
+4	7.0	33.1
C	8.2	31.9
+7	9.5	30.6
+10	8.4	31.7
¼	9.8	30.3
ch.	9.5	30.6
W	9.1 8.1	31.0 32.0
10' W	8.0	32.1

4011

200' S.

10'W	8.0	32.1
W.	8.0 8.8	32.1 31.3
Cl.	9.6	30.5
¼	9.9	30.2
+3	8.8	31.3
+6	9.4	30.7
+8	8.8	31.3
C	7.9	32.2
+4	7.6	32.5
¼	2.6	37.5
Cl.	1.9	38.2
E	1.6	38.5

225' S.

E	2.0	38.1
Cl.	2.2	37.9
¼	2.6	37.6
+8	7.3	32.8
C	7.7	32.4
+3	8.0	32.1
+8	9.7	30.4
+11	9.2	30.9
¼	9.9	30.2
Cl	9.6	30.5
W	9.6 8.2	31.9
10'W	8.2	31.9

250' S.

10'W	8.7	31.4
W	8.7 9.4	31.4 30.7
Cl.	9.8	30.3
¼	9.3	30.8
C	8.6	31.5
+10	3.6	36.5
¼	3.2	36.9
Cl.	3.0	37.1
E	2.6	37.5

275' S.

E	3.5T	36.6
Cl.	3.6	36.5
¼	3.8	36.3
+5	4.0	36.1
+8	6.8	33.3
C	8.4	31.7
¼	10.0	30.1
Cl	10.4	29.7
W	9.6 8.7	30.5 31.4
10W	8.7	31.4

40.11

293' S.o F

10'W	6.5	33.6
W	8.7 9.5	31.4 30.6
ct	9.3	30.8
1/4	9.3	30.8
+8	9.2	30.9
C	5.5	34.1
1/4	4.6	35.5
ct	4.4	35.7
E	4.2	359

300' S.o N. L. "G" St

E	4.2	35.9
Ct	4.6	35.5
1/4	4.6	35.5
c	5.0	35.1
+6	5.0	35.1
+7	6.2	33.9
1/4	5.6	34.5
Ct	6.1	34.0
+10	6.4	33.7
W	5.6	34.5

5/20/10 Hatch
Trowe
Fitzpatrick

Xsec. Falcon St from S.L. Arnold-Choate To Alley of Blk 283 Northern Extension

BM	6.40	271.902		265.502	Falcon Washington
	5.22	270.40	6.72	265.18	
		Pueblo Line.			
W			4.6	265.8	
cb			4.9	265.5	
1/4			4.9	265.5	
c			4.9	265.5	
1/4			5.1	265.3	
cb			5.1	265.3	
E			5.5	264.9	
	25' S.				
E			5.5	264.9	
cb			5.5	264.9	
1/4			5.2	265.2	
c			5.1	265.3	
1/4			5.2	265.2	
cb			5.2	265.2	
W			4.6	265.8	
	50' S				
W			4.8	265.6	
cb			4.8	265.6	
1/4			4.8	265.6	
c			5.0	265.4	
1/4			5.1	265.3	

45' street
14' Curb on West
10' " " East

	270.40		
cb		5.3	265.1
E		5.5	264.9
	75' S		
E		5.4	265.0
cb		5.3	265.1
1/4		5.0	265.4
c		5.1	265.3
1/4		5.0	265.4
cb		5.0	265.4
W		5.5	264.9
	100' S		
W		6.3	264.1
cb		6.0	264.4
1/4		6.0	264.4
c		6.2	264.2
1/4		6.2	264.2
cb		6.2	264.2
E		6.5	263.9
	125' S		
E		7.2	263.2
cb		7.2	263.2
1/4		7.4	263.0
c		7.3	263.1
1/4		7.3	263.1

		270.40		
cb			7.4	263.0
W			7.5	262.9
		135.5	E	
		137.0	W to Alleyline	
W			8.4	262.0
cb			8.1	262.3
1/c			8.2	2622
c			8.2	262.2
1/c			7.9	262.5
cb			7.9	262.5
E			7.5	262.9

60.44 - N.W. 3d & A. pl. g. rt.
70.41 B.M. S.W. Ash & 3d

55.51 - BM N.W 2d & A
60.44 N.W 4th and A.

42.84 N.W 15 & F plg. rt.

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TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	
Degrees.	DEGREES		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		Degrees