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.

MICROFILMED DEC 10 1964

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

Bk. #374

Clough
Donnan
Rogers
5.9.10

Cross section of Newport St (80)

W L Abbot to Guizot

B M Monument	337	15.64		12.27	NE Bacon & Newport
	417	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

1293

Newport St

2

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 L of Abbot St

SL	9.1	3.8
bh +3'	7.3	5.6
	7.0	5.9
y	6.5	6.4
b	6.2	6.7
y	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
y	6.1	6.8
b	5.6	7.3
y	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
y	5.6	7.3
b	5.2	7.7
y	6.0	6.9
bh	6.3	6.6
NL	7.0	5.9

1293 New Part of

60' E of Abbot St

NL	6.9	6.0
bh	6.0	6.9
y	5.7	7.2
b	5.0	7.9
y	5.2	7.3
+3'	8.0	4.9
+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'	5.2	7.3
+4	5.4	7.5
b	4.5	8.4
y	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
y	5.0	7.9
b	4.4	7.5
y	4.6	8.3
+3'	4.8	8.1
+8'	6.3	6.6
bh	5.0	7.9
SL	2.2	10.7

1293

156' E of abbot (in Alley Graded)

SL	4.0	8.9
bb	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
bb.	4.6	8.3
+4'	5.4	7.5
y	4.7	8.2
b	4.1	8.8
y	4.8	8.1
bb	4.8	8.1
NL	4.8	8.1

250' E of abbot st.

NL	5.2	7.7
bb	5.2	7.7
y	4.6	8.3
b	4.2	8.7
y	4.5	8.4
bb	4.9	8.0
SL	4.4	8.5

1293 Newport st

300' E of Abbot st

SL	4.7	8.2
bb	4.5	8.4
y	4.4	8.5
b	4.0	8.9
y	4.6	8.3
bb	5.0	7.9
NL	5.1	7.8

350' E of Abbot

NL	4.8	8.1
bb	4.6	8.3
y	4.1	8.8
b	3.7	9.2
y	4.1	8.8
bb	4.4	8.5
SL	4.3	8.6
TP	69.6 16.14	37.5 91.8

400' E of Abbot st

SL	6.5	9.6
bb	7.2	8.9
y	6.7	9.4
b	6.6	9.5
y	6.9	9.2
bb	7.2	8.9
NL	7.4	8.7

1614

	450'	E of	abbot	st
NL			6,7	9.4
bh			6,6	9,5
y			6,2	9.9
b			6,0	10,1
y			6,3	9,8
bh			7,0	9,1
SL			6,2	9.9
	500'	E of	abbot	st
SL			5,7	10.4
bh			6,2	9.9
y			5,4	10,7
b			5,4	10,7
y			5,8	10.3
bh			6,1	10,0
NL			6,0	10,1
	550'	E of	abbot	st
NL			4,9	11.2
bh			5,7	10,4
y			5,0	11.1
b			4,8	11,3
y			5,0	11.1
bh			5,5	10,6
SL			4,6	11.5

1614 Newport st

	600'	E of = W of	Bacon	st (60')
SL			4,6	11.5
bh			4,5	11,6
y			4,5	11.6
b			4,2	11,9
y			4,5	11.6
bh			5,0	11.1
NL			4,4	11.7
	W bl of	Bacon	st	
NL			4,6	11.5
bh			4,4	11.7
y			4,3	11.8
b			4,0	12.1
y			4,3	11.8
bh			4,4	11.7
SL			4,5	11.6
	W 1/4 of	Bacon	st	
SL			4,4	11.7
bh			4,2	11.9
y			4,2	11.9
b			3,8	12,3
y			4,0	12.1
bh			4,3	11.8
NL			4,3	11.8

1614

Center of Bacon st

nl		4,0	12,1
bb		4,1	12,0
y		3,8	12,3
b		3,8	12,3
y		4,0	12,1
bb		4,1	12,0
Sl		4,2	11.9

Center + 1' = 2' W of RR Rail

Sl		4,2	11.9
bb		4,1	12,0
y		4,0	12,1
b		3,8	12,3
y		3,8	12,3
bb		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			

1614 New fort st

E 1/4 = 2' E of Rail

nl		4,2	11.9
bb		4,1	12.0
y		3,9	12,2
b		3,8	12,3
y		3,8	12,3
bb		3,9	12,2
Sl		4,0	12,1

E bb of Bacon st

Sl		3,6	12,5
bb		3,7	12.4
y		3,8	12,3
b		3,5	12,6
y		3,8	12,3
bb		3,8	12,3
nl		4,1	12,0

E Line of Bacon st

nl		3,5	12,6
bb		3,5	12,6
y		3,8	12,3
b		3,4	12,7
y		3,8	12,3
bb		4,0	12,1
Sl		3,4	12,7
TP	7,38	19,65	3,89	12,25

BM

19.65

50' E of Bacon st

S2	6.0	13.6
bb	6.2 / 7.1	13.4 / 12.5
y	6.4	13.2
b	6.1	13.5
y	6.5	13.1
bb	7.2 / 6.8	12.4 / 12.8
N2	6.4	13.2

100' E of Bacon st

N2	6.0	13.6
bb	6.2 / 7.0	13.4 / 12.6
y	6.0	13.6
b	5.7	13.9
y	5.8	13.8
bb	6.5 / 5.7	13.1 / 13.9
S2	5.6	14.0

150' E of Bacon st

S2	5.4	14.2
bb	5.7 / 6.3	13.9 / 13.3
y	5.5	14.1
b	5.3	14.3
y	5.6	14.0
bb	6.1 / 5.5	13.5 / 14.1
N2	5.7	13.9

19.65 Newport st

(200') E of Bacon st

N2	5.5	14.1
bb	5.9	13.7
y	5.2	13.4
b	4.9	14.7
y	5.0	14.6
bb	5.7 / 5.1	13.9 / 14.5
S2	5.0	14.6

250' E of Bacon st

S2	4.6	15.0
bb	5.0 / 5.5	14.6 / 14.1
y	4.8	14.8
b	4.4	15.2
y	4.8	14.8
bb	5.5 / 4.8	13.1 / 14.8
N2	5.4	14.2

300' E of Bacon st

N2	5.0	14.6
bb	4.6 / 5.1	15.0 / 14.4
y	4.4	15.2
b	4.0	15.6
y	4.4	15.2
bb	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		4.2	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 st 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

S2	5.5	17.5
bb	(5.5 / 5.8)	17.5 / 17.2
4	5.4	17.6
b	5.0	18.0
4	5.4	17.6
bb	(6.1 / 5.5)	16.9 / 17.5
N2	5.5	17.5

W 1/4 of cable st

N2	5.6	17.4
bb	(5.6 / 6.0)	17.4 / 17.0
4	5.3	17.7
b	5.0	18.0
4	5.4	17.6
bb	(5.8 / 5.2)	17.2 / 17.8
S2	5.1	17.9

Center of cable st

S2	5.0	18.0
bb	(5.3 / 5.5)	17.7 / 17.5
4	5.3	17.7
b	4.9	18.1
4	5.2	17.8
bb	(6.0 / 5.4)	17.0 / 17.4
N2	5.5	17.5

22.99

new part

E 1/4 of cable st

N2	5.4	17.6
bb	(4.8 / 5.8)	18.2 / 17.2
4	5.1	17.9
b	4.8	18.2
4	5.2	17.8
bb	(5.7 / 4.8)	17.3 / 18.2
S2	4.9	18.1

E bb of cable st

S2	5.0	18.0
bb	(5.0 / 5.5)	18.0 / 17.5
4	5.2	17.8
b	4.7	18.3
4	5.0	18.0
bb	(5.7 / 5.2)	17.3 / 17.8
N2	5.3	17.7

E line of cable st

N2	5.4	17.6
bb	(5.1 / 5.6)	17.9 / 17.4
4	4.9	18.1
b	4.6	18.4
4	5.0	18.0
bb	(5.4 / 4.6)	17.6 / 18.4
S2	5.0	18.0

50' E of babb 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 / 4.2)	17.9 / 18.4
NL	4.7	18.3

100' E of babb st

NL	4.2	18.8
bb	(4.3 / 4.2)	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 babb 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	3.4	19.6

200' E of babb 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 babb 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 babb 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

2848

	350	E of	Cable st	
NL			6,5	22.0
bh			(6,3 / 7,2)	22.2 / 21,3
"			6,3	22.2
b			5,8	22.7
"			6,4	22.1
bh			(7,0 / 6,2)	21.5 / 22.3
SL			6,2	22.3
	400	E of	Cable st	
SL			5,7	22.8
bh			(5,6 / 6,2)	22.9 / 22.3
"			5,8	22.7
b			5,1	23.4
"			5,7	22.8
bh			(6,3 / 5,7)	22.2 / 22.8
NL			6.1	22.4
	450	E of	Cable st	
NL			5,3	23,2
bh			(5,2 / 5,8)	23,3 / 22,7
"			5,1	23.4
b			4,6	23.9
"			5,1	23,4
bh			(5,7 / 4,8)	22.8 / 23.7
SL			5,0	23.5
TP	689	31.96	3,41	25,07

31.96 Newport st

500 E of Cable st		
NL	8,2	23.8
bh	(8,2 / 8,7)	23.8 / 23.3
"	8,2	23.8
b	7,5	24.5
"	8,0	24.0
bh	(8,5 / 7,8)	23.5 / 24.2
SL	7.9	24.1
550' E of Cable st		
SL	7,3	24.7
bh	(7,2 / 7,9)	24.8 / 24.1
"	7,4	24.6
b	6,8	25.2
"	7,3	24.7
bh	(8,0 / 7,4)	24.0 / 24.6
NL	7.4	24.6
600' E = W L De Foe st (60')		
NL	6,9	25.1
bh	(7,0 / 7,4)	25.0 / 24.6
"	6,6	25.4
b	6,0	26.0
"	6,6	25,4
bh	7,1	24.9
SL	6,6	25.4
	6,6	25.4

31.96

W bb of De Fae St

SL	6.3	25.7
bb	(6.2 / 7.0)	25.8 / 25.0
4	6.4	25.6
b	5.9	26.1
4	6.6	25.4
bb	(7.2 / 6.5)	24.8 / 25.5
NL	6.7	25.3

W 1/4 of De Fae St

NL	6.7	25.3
bb	(6.5 / 7.1)	25.5 / 24.9
4	6.4	25.6
b	5.7	26.3
4	6.3	25.7
bb	(6.7 / 6.1)	25.3 / 25.9
SL	5.8	26.2

Center of De Fae St

SL	6.1	25.9
bb	(6.2 / 6.6)	25.8 / 25.4
4	6.1	25.9
b	5.6	26.4
4	6.2	25.8
bb	(6.9 / 6.5)	25.1 / 25.5
NL	6.7	25.3

31.96 Newport St

E 1/4 of De Fae St

NL	6.3	25.7
bb	(6.5 / 6.7)	25.5 / 25.3
4	6.1	25.9
b	5.5	26.5
4	6.0	26.0
bb	(6.5 / 5.9)	25.5 / 26.1
SL	5.8	26.2

E bb of De Fae St

SL	5.6	26.4
bb	(5.6 / 6.3)	26.4 / 25.7
4	5.8	26.2
b	5.3	26.7
4	5.9	26.1
bb	(6.6 / 5.6)	25.4 / 26.4
NL	6.0	26.0

E Line of De Fae St

NL	6.0	26.0
bb	(5.8 / 6.4)	26.2 / 25.6
4	5.2	26.8
b	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

SL	4.8	27.2
bb	(4.4 / 5.5)	27.6 / 26.5
y	4.9	27.1
b	4.5	27.5
y	5.1	26.9
bb	(5.5 / 5.0)	26.5 / 27.0
nL	5.0	27.0

100' E of De Foe st

nL	3.8	28.2
bb	(4.0 / 4.6)	28.0 / 27.4
y	4.0	28.0
b	3.5	28.5
y	4.0	28.0
bb	(4.6 / 3.8)	27.4 / 28.2
SL	4.1	27.9

150' E of De Foe st

SL	2.6	29.4
bb	(3.1 / 3.7)	28.9 / 28.3
y	3.0	29.0
b	2.5	29.5
y	2.9	29.1
bb	(3.6 / 2.7)	28.4 / 29.3
nL	3.1	28.9

31.96 New port st

200' E of De Foe st

nL	2.0	30.0
bb	(1.8 / 2.4)	30.2 / 29.6
y	1.8	30.2
b	1.3	30.7
y	1.8	30.2
bb	(2.6 / 1.9)	29.4 / 30.1
SL	2.2	29.8
TP	1.03 42.25	1.74 30.22

250' E of De Foe st

SL	11.2	31.1
bb	(11.0 / 11.7)	31.3 / 30.6
y	10.8	31.5
b	10.3	32.0
y	10.6	31.7
bb	(11.5 / 10.7)	30.8 / 31.6
nL	11.0	31.3

300' E of De Foe st

nL	9.4	32.9
bb	(9.6 / 10.2)	32.7 / 32.1
y	9.4	32.9
b	9.0	33.3
y	9.7	32.6
bb	(10.5 / 9.9)	31.8 / 32.4
SL	10.2	32.1

42.25

350' E of De Zoe st

SL	8.7	33.6
bb	(8.4 / 9.0)	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
nL	8.2	34.1

400' E of De Zoe st

nL	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
SL	7.4	34.9

450' E of De Zoe st

SL	5.9	36.4
bb	(5.3 / 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
nL	5.0	37.3

42.25 New port st

500' E. De Zoe st

nL	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	38.3
SL	3.2 / 3.7	39.1 / 38.6

11.88 53.60 0.53 41.72

550' E of De Zoe st

SL	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
nL	11.2	42.4

600' E = W line of Eberst st (60')

nL	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
SL	9.6	44.0

5360

W bb of Eber St

SL	9.0	44.6
bb	(8.7 / 10.0)	44.9 / 43.6
y	8.7	44.9
b	8.0	45.6
y	8.6	45.0
+7'	9.0	44.6
bb	10.2	43.4
NL	9.0 / 8.3	44.6 / 45.3

W 1/4 of Eber St

NL	7.9	45.7
bb	(8.5 / 9.5)	45.1 / 44.1
y	8.0	45.6
b	7.5	46.1
y	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
y	7.5	46.1
b	6.9	46.7
y	7.5	46.1
bb	(8.7 / 8.0)	44.9 / 45.6
NL	7.3	46.3

5360 Newhart St

E 1/4 of Eber St

NL	6.7	46.9
bb	(7.3 / 8.0)	46.3 / 45.6
y	6.9	46.7
b	6.4	47.2
y	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
y	6.3	47.3
b	5.7	47.9
y	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
y	5.7	47.9
b	5.1	48.5
y	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
4			2.2	51.4
6			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
6			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
6			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
6			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
+4'			10.0	67.0
+7'			9.0	68.0
bh			7.9	69.1
4			6.6	70.4
6			6.7	70.3
4			7.7	69.6
+11'			8.4	68.6
bh			9.7	67.3
+12'			10.4	66.6
NL			11.8	65.2

77.01

	300'	E of	Eber St	
nl			7.5	69.5
+10			6.5	70.5
bb			4.0	73.0
+1'			3.4	73.6
1/4			2.7	74.6
b			1.5	75.5
4			1.8	75.3
bb			2.5	74.5
+4'			4.2	72.8
SL			4.1	72.9
TP	12.97	89.61	0.37	76.64
	350'	E of	Eber St	
SL			12.1	77.5
+11'			13.3	76.3
bb			10.1	79.5
4			9.5	80.1
b			9.2	80.4
4			10.0	79.6
bb			11.6	78.0
+4'			14.7	74.9
nl			15.5	74.1

89.61 New part

	400'	E of	Eber St	
nl			10.6	79.0
~~A~~+10'			9.4	80.2
bb			6.0	83.6
4			5.2	84.4
b			4.5	85.1
4			4.8	84.8
bb			5.3	84.3
+4'			8.2	81.7
~~+8'~~			8.8	80.8
SL			7.7	81.9
	450'	E of	Eber St	
SL			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
b			11.8	90.1
4			12.4	89.3
bb			13.3	88.6
+5			16.4	85.5
~~nl~~ SL			16.7	85.2

		101.85		
	500'	E of	Eber st	
NL			9,0	92.9
bb			7,8	94.1
y			7,5	94.4
b			6,8	95.1
y			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
y			2,5	99.4
b			2,2	99.7
y			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		New port st
	600' E =		W Line of	Fronde st (60)
NL			8,6	104.6
+12'			8,8	104.4
bb			9,7	103.5
+4'			10,1	103.1
y			9,5	103.7
b			8,9	104.3
y			9,4	103.8
bb			9,9	103.3
+2'			8,0	105.2
SL			7,3	105.9
	W bb of		Fronde st	
SL			6,5	106.7
+6'			7,0	106.2
bb			8,4	104.8
+2'			9,4	103.8
y			8,8	104.4
b			8,3	104.9
y			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 Fraude st

NL	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
SL	4,9	108.3

Center of Fraude

SL	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
NL	6,3	106.9

113.15 New port st

E 1/4 of Fraude st

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

E bb of Fraude st

SL	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
NL	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
b			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
b			10.9	110.9
4			11.4	110.4
bb			(11.9) 7.0	109.9 114.8
Adi			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
b			6.3	115.5
4			6.4	115.4
+9'			7.0	114.8
+14'			5.9	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
b			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	Fronde St	
NL			5,1	127.0
bb			(5,0 / 11,0)	125.7 / 121.7
44			10,7	122.0
b			10,0	122.8
y			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	Fronde St	
SL			+2,6	135.3
bb			9,7	123.0
y			9,2	123.5
b			8,9	123.8
y			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	Fronde St		
NL			3,0		129.7
bb			(3,0 / 8,6)		129.7 / 124.1
y			8,0		124.7
b			7,3		125.5
y			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	Fronde St		
SL			1.1		142.4
+2'			1.1		142.4
+6'			13,6		130.0
bb			13,7		129.8
46'			13,2		130.3
y			13,0		130.5
b			12,7		130.8
y			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 Fronde st

SL		2,0	146.3
+2'		2,2	146.1
+5'		13,4	134.7
bb		13.4	134.9
4		12,7	135.6
b		12.6	135.7
4		13,3	135.0
bb		14,4	133.9
+1'		4,5	143.8
NL		5,0	143.3
TP	5.95	1,63	146.69

152.64

350 E of Fronde st

SL		1,9	150.7
+2'		1,9	150.7
+5'		12,2	140.4
bb		12,8	139.8
4		12,3	140.3
b		12,0	140.6
4		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 Fronde st

NL		2,4	150.2
bb		1,5	151.1
+1'		9,0	143.6
4		8,1	144.5
b		7,4	144.2
4		7,8	144.8
bb		7,8	144.8
+7'		7,7	144.9
TP	6.53	0,93	151.71

158.24

+11'		2,2	156.0
SL		2,1	156.1

410' E of Fronde st

SL		1,5	156.7
bb		2,5	155.7
+2'		13,2	145.0
4		12,5	145.7
b		12,1	146.1
4		12,7	145.5
+12'		13,9	144.3
bb		7,4	150.8
NL		8,5	149.7

158.24

	425'	℄ of	Froude st	
hl			9.0	149.2
bh			(7.6 / 1.9)	150.4 / 146.3
y			11.2	147.0
b			10.6	147.6
y			11.1	147.1
+11'			11.7	146.5
bh			2.0	156.0
SL			0.7	157.5
TP	4.80	161.44	1.60	159.84
	4.45	℄ of	Froude st	
SL			2.0	159.4
bh			3.3	158.1
+1'			3.3	158.1
+3'			12.9	148.5
y			12.8	148.6
b			12.1	149.3
y			12.7	148.7
bh			13.3	148.1
+2'			9.2	152.2
hl			10.5	150.9

161.44 Newport st

	450'	℄ of	Froude st	
hl			9.9	157.5
bh			(8.7 / 2.7)	152.7 / 148.7
y			12.3	149.1
b			11.6	149.8
y			12.0	149.4
+11'			12.3	149.1
bh			11.0	150.4
+7'			1.8	160.6
SL			1.4	160.0
TP	7.51	167.27	1.68	159.76
	5.00'	℄ of	Froude st	
SL			0.0	167.3
+6'			12.8	154.5
bh			13.3	154.0
y			13.0	154.3
b			12.7	154.6
y			13.2	154.1
bh			14.0	153.3
+1'			8.6	158.7
hl			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
y			8.1	159.2
b			8.0	159.3
y			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
1/4			13.6	161.0
b			13.0	161.6
y			13.2	161.4
bb			13.6	161.0
+2'			13.0	161.6
NL			16.9	157.7

174.57 Newport st

(Newport offsets 2.5 to S here)

600' E = W Sin Guizot (60')

NL	17.3	157.3
bb	12.2	162.4
+2'	11.7	162.9
y	11.7	162.9
b	11.5	163.1
y	11.9	162.7
+11'	12.3	162.3
bb	3.9	170.7
SL	0.8	173.8
W bb of	Guizot st	
SL	1.9	172.7
+13'	4.7	
bb	5.6	
+3'	11.8	
y	11.4	
b	11.1	173.5
y	11.3	
+12	11.6	
bb	12.0	
NL	16.2	158.4

174.57

E 1/4 of Guizot st

nl	14.2	
bl	11.6	
1/4	11.1	
b	10.9	
1/4	11.0	
+1'	11.5	
bl	5.9	
sl	2.4	

Center of Guizot st

sl	2.8	171.8
bl	7.0	
+1'	11.2	
4	10.6	
b	10.5	167.1
4	10.9	
bl	11.2	
nl	13.0	161.6

174.57 Newport st

E 1/4 of Guizot st

nl	12.7
bl	11.0
4	10.7
b	10.3
4	10.4
+1'	10.8
bl	7.4
sl	3.5

E bl of Guizot st

sl	4.1
bl	9.2
+2'	10.3
4	10.0
b	10.1
4	10.6
bl	10.9
nl	12.5

17457 ✓ to Oran Santa Barbara

E Line of Guizot st.

3 L	10.4	164.2
bk	10.5	
4	10.5	
6	10.0	164.6
4	9.6	
+10'	10.0	
bk	9.1	
5 L	5.4	169.2

Cross-Section "A" St. 2d to 4th. 5 Davis, 16 Williams, 14 Hancock

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

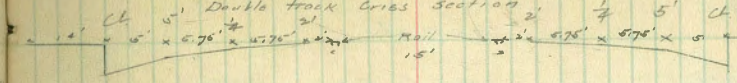
E. line-2d

No	6.2	55.7
Ct.	6.5	55.4
Gutr	6.7	55.2
+5	6.7	55.2
1/4	6.4	
C	6.6	55.3
1/4	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
1/4	6.3	
C	5.9	56.0
1/4	6.1	
5'	6.3	55.6
Gutr	6.5	55.4
Ct	5.9	56.0
No	5.5	56.4

Double track Cross 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
1/4	5.5	
C	5.3	56.6
1/4	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
1/4	4.9	
C	4.6	57.3
1/4	4.8	
5'	5.1	56.8

61.91

75' E 2d

No Gutr	5.1	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

150' 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.	2.3	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

200' 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	4.2	60.8
N.	3.5	61.3

64.78

75' E 3d

No	3.8	61.0
Ct	4.1	60.7
Contr	4.6	60.2
5'	4.7	60.1
¼	4.7	
C	4.7	60.1
½	5.0	
5'	5.5	59.3
Contr	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
Contr	5.9	58.9
5'	5.7	59.1
¼	5.1	
C	4.9	59.9
¼	4.7	
5'	4.7	60.1
Contr	4.8	60.0
Ct	4.7	60.7
N.	3.6	61.2

125' E 3d

N.	2.2	62.6
Ct	3.9	60.9
Ct	4.2	60.6
Contr	4.9	59.9
5'	4.9	59.9
¼	4.8	
C	5.0	59.8
½	5.5	
5'	6.0	59.8
Contr	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
Contr	6.5	58.3
5'	6.2	58.6
¼	5.6	
C	5.2	59.6
¼	5.0	
5'	5.0	59.8
Contr	4.9	59.9
Ct	4.4	60.4
No	4.0	60.8

60.78

175' E 39

No	2.8	62.0	
+4	4.1	60.7	
Ct	4.3	60.5	
Cruts	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	
Cruts	6.7	58.1	
Ct	6.0		
So	5.8		

300 E = W.L. 4th

So	6.0		
Ct	6.3		
Cruts	6.7	58.1	
5'	6.5	58.3	
½	6.0		
0	5.5	59.3	
½	5.2		
5	4.8	60.0	
Cruts	4.6	60.2	
Ct	4.3	60.5	
No	4.0	60.8	
BM. N. W 4th A	4.84	60.44 ✓	60.44

Cross Section 3rd St. Ash to B

	3.69	74.10		7.41 BM S W 3rd & Ash

Saline. 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
3'			2.9	71.2
¼			3.0	
5'			3.3	70.8
Gutr			3.5	70.6
Ch.			3.7	70.4
E			3.5	70.6
		25'5.		
E			3.2	70.9
Ch			3.6	70.5
Gutr			4.6	69.5
5'			4.2	69.9
¼			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
Ch			4.4	69.7
W			4.5	69.9

		50.50		
W			5.1	69.0
Ch			5.1	69.0
Gutr			5.5	68.5
5'			5.3	68.8
¼			4.6	
2'			4.5	69.6
2'			4.7	69.4
¼			4.7	
5'			5.0	69.1
Gutr			5.2	68.9
Ch.			4.5	69.6
E			4.2	69.9
E		75'5.	5.1	69.0
Ch.			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
¼			5.6	
5'			6.0	68.2
Gutr			6.4	67.7
Ch.			5.8	68.3
W			5.9	68.2

74.10

100' So Ash

W.		6.7	67.4
Ct		6.6	67.5
Contr		7.2	66.9
5'		7.0	67.1
1/4		6.4	
2'		6.3	67.8
2'		6.3	67.8
1/4		6.4	
5'		6.6	67.5
Contr		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
Contr		8.2	65.9
5'		7.5	66.6
1/4		7.3	
2'		7.2	66.9
2'		7.0	67.1
1/4		7.3	66.8
5'		7.8	66.3
Contr		7.9	66.2
Ct		7.4	66.7
W		7.3	66.8

T.P.	1.52	67.40	8.22	65.88
		150' So		
W			1.5	65.9
Ct			1.5	65.9
Contr			2.0	65.4
5'			1.9	65.5
1/4			1.4	
2'			1.2	66.2
2'			1.3	66.1
1/4			1.7	
Contr			2.4	65.0
Ct			1.4	66.0
E			1.0	66.4
		175' So		
E			1.8	65.6
Ct			2.3	65.1
Contr			3.4	64.0
5'			2.5'	64.9
1/4			2.3	65.1
2'			2.2	65.2
2'			2.1	65.3
1/4			1.9	
5'			2.6	64.8
Contr			3.0	64.4
Ct			2.4	65.0
W			2.2	65.2

67.40

200' So Ash St

W	3.0	64.4
Ct	3.3	64.1
Gutr	3.9	63.5
5'	3.7	63.7
½	3.2	
2'	2.9	64.5
2'	3.1	64.3
¼	3.2	
5'	3.4	64.0
Gutr	4.4	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
½	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
½	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 - No. 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 BM No. 4

No. Cl. A

E			0.1 0.3	60.9 60.7	
Ct			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	
Ct			1.1	59.9	
W			0.6 1.2	60.4 59.8	

No. 5' line

W	1.0	60.0
Ct	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
Ct	0.8	60.2
E	0.5	60.5

No. 1/4

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

61.03

Ctr A

N	0.9	60.1
ct	1.1	59.9
5'	1.0	60.0
7	0.7	
2'	0.2	60.8
2'	0.4	60.6
7	0.5	60.5
5'	1.0	60.0
ct	1.2	59.8
E	0.5	60.5

50 ¼ A

E	0.9	
ct	1.3	
5'	1.1	
7	0.7	
2'	0.5	
2'	0.2	
7	0.9	
5'	1.2	
ct	1.3	
W	1.2	

50 5' line A

W	1.6	59.4
ct	1.5	59.5
5'	1.4	59.6
7	1.0	60.0
2'	0.4	60.6
2'	0.6	60.4
7	0.8	
5'	1.3	59.7
ct	1.3	59.7
E	1.2	59.8

5. ct A

E	1.2 0.6	59.8 60.4
ct	1.5	59.5
5'	1.2	59.8
7	0.9	
2'	0.6	60.4
2'	0.6	60.4
2	1.2	
5'	1.5	59.5
ct	1.8	59.2
W	1.5 1.0	59.5 60.0

61.03

So line A

W	0.9	60.1
Ct	1.1	59.9
Cntr	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
Cntr	1.7	59.3
Ct	0.7	60.3
E	0.4	60.6

25' So

E	2.5	58.5
Ct	2.8	58.2
Cntr	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
Cntr	4.0	57.0
Ct	3.3	57.7
W	3.3	57.7

50' So A

W	5.5	55.5
Ct	5.4	55.6
Cntr	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
Cntr	5.3	55.7
Ct	4.8	56.2
E	4.6	56.4

75' So A

E	6.5	54.5
Ct	6.9	54.1
Cntr	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
Cntr	8.2	52.8
Ct	7.6	53.4
W	7.6	53.4
T.P. 170	52.69	10.04	50.99

52.69

100' 5. A

W	1.7	51.0
Cl	1.6	51.1
Gutr	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
Gutr	1.5	51.2
Cl	0.6	52.1
E	0.5	52.2

125' 50 A

E	2.6	50.1
Cl	2.7	50.0
Gutr	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
Gutr	4.2	48.5
Cl	3.7	49.0
W	3.9	48.8

150' 5

W	5.7	47.0
Cl	5.7	47.0
Gutr	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
Gutr	5.1	47.6
Cl	4.6	48.1
E	4.4	48.3

175' 5.

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' S. A.

W	6.6	46.1
Cl	6.6	46.1
Gtr	6.6	46.1
5'	6.3	46.4
4	6.2	
5'	6.1	46.6
2'	6.0	46.7
4	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
4	6.3	
4'	6.5	46.2
2'	6.5	46.2
4	6.8	
5'	7.0	45.7
Gtr	7.3	45.4
Cl	7.0	45.7
W	7.2	45.5

250' S.

W	7.4	45.3
Cl	7.4	45.3
Gtr	7.5	45.2
5'	7.5	45.2
4	7.4	
2'	7.1	45.6
2'	6.9	45.8
4	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
4	7.1	
2'	7.3	45.4
2'	7.5	45.2
4	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
U	8.2	44.5
Gtr	8.8	43.9
5'	8.4	44.3
4	8.1	
2'	7.9	44.8
2'	7.8	44.9
4	7.7	
5'	7.9	44.8
Gtr	8.0	44.7
Cl	7.3	45.4
E	7.2	45.5

Cross-Section 15th St "E" to "G"

5 / 18 / 10 { Davis / Williams / Hancock

	1.66	.41 44.50		42.84 BM N.W. 15 & F
		No 11mo "F"		
E			1.2	43.3
Ct			1.2	43.3
1/4			1.3	43.2
C			2.0	42.5
1/4			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
1/4			2.1	42.4
C			1.9	42.6
1/4			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
1/4	4.0	40.5
C	3.0	41.5
1/4	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
1/4	3.6	40.9
C	3.9	40.6
+5	4.4	40.1
1/4	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	{7.7 9.6	37.3 34.9
Cl.	10.4	34.1
+7	9.5	35.0
¼	7.7	36.8
+6	5.3	39.2
C	4.4	40.1
¼	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
¼	2.7	41.8
+4	3.3	41.2
C	5.1	39.4
+8	4.5	40.0
¼	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
¼	6.9	37.6
+9	6.3	38.2
C	3.6	40.9
+3	3.0	41.5
¼	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
¼	2.0	42.5
C	2.5	42.0
+4	2.5	41.7
+9	7.6	36.9
¼	7.7	36.8
+6	8.1	36.4
Cl.	8.9	35.6
E	8.9	35.6

		44.5°		
		150' N.		
7' E. of 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.			6.2	36.3
+8			8.3	36.2
½			7.9	36.6
+4			7.5	37.0
+10			2.2	42.3
C			1.2	43.3
½			1.3	43.2
d.			1.0	43.5
W.			0.8	43.7
T.P	6.92	50.28	0.95	43.55
		200' N.		
W.			5.4	44.9
d.			5.8	44.5
½			6.0	44.3
+7			6.0	44.3
C			9.4	40.9
+8			13.4	36.9
½			13.1	37.2
d			13.4	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
d.	13.1	37.2
½	12.9	37.4
+7	12.2	37.1
C	8.3	42.0
+6	6.3	45.0
½	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
½	4.6	45.7
+8	4.3	46.0
C	8.0	42.3
+5	9.3	41.0
+10	12.8	37.5
½	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
1/4	12.3	38.0
C	8.1	42.2
+6	4.6	45.7
1/4	4.2	46.1
Cl	3.3	47.0
W	3.7	46.6

293' No.

W	3.8	46.5
+7	2.2	48.1
Cl	1.4	48.9
1/4	3.4	46.9
C	5.6	44.7
1/4	5.7	44.6
Cl	5.5	44.8
E	4.5	45.8
10' E	4.0	46.3

301' No = So line "E" St

E		0.0	50.3
Cl		0.2	50.1
1/4		0.1	50.2
C		0.1	50.2
1/4		0.1	50.2
Cl		0.5	49.8
W		0.1	50.2
	0.52	43.36	42.84 BM N.N.E

So line "F" St.

W	0.1	43.3
Cl	0.5	42.9
1/4	0.6	42.8
C	0.4	43.0
1/4	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
1/4	6.4	37.0
C	6.7	36.7
1/4	6.5	36.9
+14	8.5	34.9
Cl	7.2	36.2

43-36

9' S.

N.L	3.9	39.5
	1.0	41.8
10' W	1.3	42.1

17' S.

10' W	2.0	41.4
W	2.6	40.7
	3.4	36.0
Ch.	8.7	34.7
¼	8.9	34.5
C	8.9	34.5
¼	5.4	38.0
Ch	3.2	40.2
+3	2.1	41.3
E	1.8	41.6

25' S.

E	2.6	40.8
+11	2.6	40.8
Ch	3.7	39.7
+4	4.8	38.6
¼	5.3	38.1
C	9.2	34.2
¼	9.2	34.2
Ch.	9.3	34.1
W	9.1	34.2
	4.2	39.1
10' W	3.4	40.0

50' S.

10' W	6.4	37.0
W	7.0	36.4
	9.6	39.8
Ch.	9.8	33.4
¼	10.2	33.1
C	9.8	33.6
+7	6.6	36.8
¼	5.8	37.6
Ch.	4.5	38.9
E	3.6	39.8

75' S.

E	3.7	39.7
Ch.	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
Ch	10.3	33.1
W	9.7	33.7
	7.8	35.6
10' W	7.6	35.8

43-36

100 So F

W- No Slope			10.5	32.9
cl			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
cl.			4.9	38.5
E			4.0	39.4

125 So F

E			3.9	39.5
cl			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
cl			11.4	32.0
W- No Slope			11.0	32.4
T.P.	8.29	40.11	11.54	31.82

150 So E

10 W	8.7	31.4
W	8.6	31.5
cl.	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
cl.	1.8	38.3
E	0.6	39.5

175 So

E	1.1	39.0
cl.	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
cl.	9.5	30.6
W	9.1	31.0
	8.1	32.0
10 W	8.0	32.1

4011

200' S. "F

10 W		8.0	32.1
W.		8.0	32.1
		8.8	31.3
Ch.		9.6	30.5
1/4		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
1/4		2.6	37.5
Ch.		1.9	38.2
E		1.6	38.5

225' S.

E		2.0	38.1
Ch.		2.2	37.9
1/4		2.6	37.5
+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
1/4		9.9	30.2
Ch.		9.6	30.5
W		9.6	31.9
		8.2	
10 W		8.2	31.9

257' S.

10 W		8.7	31.4
W		8.7	31.4
		9.4	30.7
Ch.		9.8	30.3
1/4		9.3	30.8
C		8.6	31.5
+10		3.6	36.5
1/4		3.2	36.9
Ch.		3.0	37.1
E		2.6	37.5

275' S.

E		3.5	36.6
Ch.		3.6	36.5
1/4		3.8	36.3
+5		4.0	36.1
+8		6.8	33.3
C		8.4	31.7
1/4		10.0	30.1
Ch.		10.4	39.7
W		9.6	30.5
		8.7	31.4
10 W		8.7	31.4

40.11

293' S. of F

10' W	6.5	33.6
W	8.7 / 9.5	31.4 / 30.6
Ch	9.3	30.8
¼	9.3	30.8
+8	9.2	30.9
C	5.5	34.6
¼	4.6	35.5
Ch	4.4	35.7
E	4.2	35.9

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

E	4.2	35.9
Ch	4.6	35.5
¼	4.6	35.5
C	5.0	35.1
+6	5.0	35.1
+7	6.2	33.9
¼	5.6	34.5
Ch	6.1	34.0
+10	6.4	33.7
W	5.6	34.5

5 Hatch X Sec. Falcon St from
20 Trove St. Arnold - Choate To Alley
1.0 Fitzpatrick 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
1/2		8.2	262.2
C		8.2	262.2
1/2		7.9	262.5
cb		7.9	262.5
E		7.5	262.9

60.44 N.W. 3d & A. pl. gr.

70.41 BM. S.W. Ash 2.3d

55.51 BM N.W 2d & A

60.44 N.W 4th and A.

42.84 N.W 15 & F plg. st.

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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							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees
	DEGREES		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		