443

400

LEVEL

F.B.443

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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	130⅔
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

MICROFILMED
OCT 1964

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

Crocker Quality

LEVEL BOOK

No. 400

Book 443

COMMUNI CONSENSU TRADE MARK PRIMO

MANUFACTURED BY

A. S. Crocker Co.

SAN FRANCISCO
and
SACRAMENTO

FROM Loring's Book Store

X Sec. Alabama St. From S.L. University to Park Line for a 60' street 10' 11/4

Monument N.E. Cor Alabama & University Ave

B.M.	3.01	26858	265.57

South Line University

E		4.0
crb		4.3
1/4		4.6
M		4.9
1/4		4.9
crb		4.8
W		4.6
	+25 S	
W		7.6
crb		6.1
1/4		5.1
M		5.3
1/4		5.2
crb		4.6
E		4.1

26858

0+50

E	4.2
crb	5.1
1/4	5.4
M	5.6
1/4	5.7
crb	7.5
W	15.6

0+75

W	12.4
crb	7.1
1/4	6.3
M	5.8
1/4	5.8
crb	4.5
E	3.2

26858

1+00

E	2.6
crb	4.2
1/4	5.3
M	6.0
1/4	6.4
crb	6.9
W	10.1

1+25

W	8.3
crb	7.1
1/4	6.3
M	5.2
1/4	4.3
crb	3.2
E	2.5

26858

1+50

E	2.9
crb	3.7
1/4	4.5
M	5.4
1/4	6.4
crb	7.4
W	8.1

1+75

W	9.1
crb	8.1
1/4	7.2
M	6.1
1/4	5.1
crb	4.3
E	3.7

		268.58		
		2+00		
E			4.0	
crb			4.8	
1/4			5.6	
M			6.4	
1/4			7.3	
crb			8.4	
W			9.5	
		2+25		
W			10.4	
crb			8.9	
1/4			7.5	
M			6.6	
1/4			5.7	
crb			4.6	
E			3.8	
T.P.	4.21.	268.53	4.26	264.32

		268.53		
		2+50		4
E			4.0	
crb			5.4	
1/4			6.0	
M			6.7	
1/4			7.9	
crb			9.8	
W			11.0	
		2+75		
W			11.8	
crb			10.6	
1/4			9.4	
M			8.2	
1/4			7.2	
crb			6.2	
E			5.2	

268.53

2+97.6 = N. Line Wightman on the East
60' Wide 10' 1/4s

E	6.1
crb	7.1
1/4	8.0
M	8.9
1/4	10.2
crb	11.2
W	12.3

North curb

W	12.3
crb	11.4
1/4	10.3
M	9.4
1/4	8.5
crb	7.5
E	6.8

268.53

North 1/4

E	7.4
crb	8.3
1/4	9.1
M	9.9
1/4	10.6
crb	11.6
W	12.5

Center

W	13.0
crb	12.1
1/4	11.3
M	10.8
1/4	10.8
crb	10.4
E	10.5

26853

South 1/4

E			8.3	
crb			11.0	
1/4			13.3	
M			15.0	
1/4			13.5	
crb			13.3	
W			14.9	
TP	1.65	264.25	5.93	262.60

South Curb

W			14.9	
crb			12.5	
1/4			12.0	
M			8.6	
1/4			6.6	
crb			4.5	
E			2.8	

26425

South Line Wightman on E

E			2.4	
crb			3.9	
1/4			5.6	
M			7.8	
1/4			9.4	
crb			11.2	
W			13.1	
		0f 25		
W			9.2	
crb			7.2	
1/4			5.6	
M			5.1	
1/4			4.2	
crb			3.1	
E			1.8	

		264.25		
		0+50		
E			1.3	
crb			2.5	
1/4			3.1	
M			4.0	
1/4			5.3	
crb	1		6.4	
W			7.6	
T.P.	6.90	267.78	3.37	260.88
		0+75		
W			11.3	
crb			9.4	
1/4			8.1	
M			7.2	
1/4			6.0	
crb			5.5	
E			4.5	

		267.78		
		1+0		
E			4.3	
crb			5.4	
1/4			6.3	
M			7.5	
1/4			8.0	
crb			10.0	
W			15.7	
		1+25		
W			11.0	
crb			8.7	
1/4			7.4	
M			6.5	
1/4			5.5	
crb			4.4	
E			3.4	

		1+50		
E			2.9	
crb			3.9	
1/4			5.2	
M			6.1	
1/4			7.0	
crb			7.8	
W			9.1	
		1+75		
W			8.4	
crb			7.2	
1/4			6.3	
M			5.5	
1/4			4.5	
crb			4.5	
E			2.4	
TP	3.24	268.84	2.18	265.60

		26884		
		2+00		
E			3.7	
crb			4.0	
1/4			5.2	
M			5.9	
1/4			6.8	
crb			7.5	
W			8.9	
		2+25		
W			8.5	
crb			7.3	
1/4			6.4	
M			5.7	
1/4			5.1	
crb			4.4	
E			3.9	

2+50

E	3.6
crb	4.3
1/4	4.9
M	5.5
1/4	6.2
crb	6.8
W	7.6

= 6+44 W 80' Wide

2+864 On the East = N.L. Robinson W. 5' 1/4s

W	7.6
crb	6.5
1/4	5.8
M	5.3
1/4	4.8
crb	4.3
E	3.8

N. curb Robinson

E	3.8
crb	4.4
1/4	4.6
M	5.2
1/4	5.8
crb	6.6
W	7.8

North 1/4

W	7.8
crb	6.6
1/4	5.8
M	5.2
1/4	4.7
crb	4.3
E	3.9

Center

E	3.9
crb	4.3
1/4	4.6
M	5.3
1/4	5.9
crb	6.7
W	8.0

South 1/4

W	8.5
crb	7.1
1/4	6.0
M	5.2
1/4	4.6
crb	4.5
E	4.2

South Curb

E	4.3
crb	4.6
1/4	4.9
M	5.4
1/4	6.0
crb	7.2
W	8.6

3+66.4 on E = 7+24 on W S.L. Robinson St

W	8.8
crb	7.6
1/4	6.5
M	5.8
1/4	5.2
crb	4.9
E	4.7

		0+25 S		
E			5.9	
crb			6.2	
1/4			6.3	
M			6.8	
1/4			7.6	
crb			8.4	
W			9.7	
		0+50		
W			10.7	
crb			10.0	
1/4			9.1	
M			8.5	
1/4			8.2	
crb			8.0	
E			7.9	
T.P.	1.79	262.54	8.09	260.75

0+75	
E	4.5
crb	4.2
1/4	4.4
M	4.8
1/4	5.1
crb	5.6
W	6.1
1+0	
W	8.8
crb	8.4
1/4	8.1
M	8.0
1/4	7.6
crb	7.3
E	7.2

		26254			
		1+25			
E			11.5		
crb			11.3		
1/4			11.5		
M			11.3		
1/4			11.2		
crb			11.0		
W			11.5		
T.P.	147	251.64	12.37	250.17	
		1+50			
W			4.2		
crb			3.9		
1/4			3.7		
M			3.5		
1/4			3.8		
crb			4.2		
E			4.8		
		1+75			
E			18.5		
crb			15.8		
1/4			11.5		
M			10.4		
1/4			10.1		
crb			9.9		
W			8.5		
		2+0			
W			17.0		
crb			16.7		
1/4			17.0		
M			18.4		
1/4			18.7		
crb			18.5		
E			17.3		
T.P.	8.55	247.98	12.21	239.43	on stone near N.E. hub

247.98

= 9+59.8 on W

2.+35.3 = N Line Landis on E

E	10.0
crb	12.0
1/4	12.8
M	12 8
1/4	13.1
crb	13.9
W	16.4

North curb

W	11.3
crb	10.3
1/4	9.9
M	10.0
1/4	9.6
crb	9.0
E	7.2

N 1/4

E	6.1
crb	7.1
1/4	7.8
M	8.3
1/4	8.7
crb	9.1
W	9.8

Center

W	9.0
crb	8.3
1/4	7.9
M	7.3
1/4	6.1
crb	5.2
E	3.8

247.98

S 1/4

E		2.2
crb		3.4
1/4		4.4
M		5.3
1/4		6.0
crb		6.4
W		7.3

S Curb

W		5.9
crb		5.4
1/4		4.9
M		3.9
1/4		2.8
crb		1.7
E		0.3
T.P	11.41 259.12	0.27 247.71

259.12

10+193 on W

2+95.3 on East = South Line Lands

E	10.1
crb	11.2
1/4	12.0
M	12.9
1/4	14.1
crb	14.7
W	14.9

0+25 S

W	10.6
crb	9.9
1/4	9.5
M	8.9
1/4	8.0
crb	7.3
E	6.3

25912

0+50

E 4.9
crb 5.8
1/4 6.4
M 7.0
1/4 8.1
crb 8.7
W 9.1

0+75

W 8.4
crb 7.7
1/4 7.1
M 6.3
1/4 5.4
crb 4.8
E 3.7

25912

1+0

E 4.0
crb 4.7
1/4 5.5
M 6.3
1/4 7.0
crb 7.5
W 8.1

1+25

W 8.5
crb 7.8
1/4 7.0
M 6.3
1/4 5.6
crb 4.8
E 3.9

25.9.12

1+50

E	2.9
crb	4.0
1/4	5.1
M	5.9
1/4	6.6
crb	6.9
W	7.8

1+75

W	8.4
crb	7.3
1/4	6.4
M	5.3
1/4	4.2
crb	3.0
E	1.9

25.9.12

2+0

E	0.6
crb	1.9
1/4	3.1
M	4.6
1/4	5.9
crb	6.7
W	8.2

2+25

W	9.0
crb	7.2
1/4	5.7
M	4.4
1/4	3.0
crb	1.5
E	0.01

T.P	204	258.99	2.17	256.95

	258,99			
	2+50			
E		1,2		
crb		2,6		
1/4		3,9		
M		5,1		
1/4		6,7		
crb		8,2		
W		10,0		
	2+75			
W		11,1		
crb		9,4		
1/4		8,1		
M		7,1		
1/4		5,5		
crb		4,1		
E		2,6		

	258,99			
	3+0			
E		5,2		
crb		6,5		
1/4		7,9		
M		8,9		
1/4		10,2		
crb		11,4		
W		12,9		
	3+25			
W		14,6		
crb		13,5		
1/4		12,6		
M		11,6		
1/4		10,5		
crb		9,3		
E		8,4		
TP	1,52	24765	12,86	246,13

247.65

3+50

E	1.4
crb	1.8
1/4	2.7
M	3.3
1/4	3.7
crb	4.8
W	5.9

= 14+035 on West

3+84² = N. Line Cypress on West

80' Wide 5' 1/4s

W	17.3
crb	16.2
1/4	15.2
M	15.4
1/4	14.6
crb	14.0
E	14.3

N curb

E	14.2
crb	15.0
1/4	15.6
M	16.0
1/4	17.3
crb	19.5
W	20.6

N. 1/4

W	17.9
crb	16.8
1/4	16.1
M	15.5
1/4	14.5
crb	13.6
E	12.5

247.65

Center

E			4.3	
crb			5.5	
1/4			5.8	
M			6.6	
1/4			7.7	
crb			8.8	
W			9.5	
T.P.	12.79	259.56	0.88	246.77

South 1/4

W	15.7
crb	14.6
1/4	13.8
M	12.9
1/4	12.0
crb	11.3
E	10.4

259.56

South Curb

E	9.5
crb	10.3
1/4	11.1
M	12.2
1/4	12.9
crb	13.8
W	14.8

South Line Landis on E = 14+83.5 on the W

W	12.3
crb	10.9
1/4	9.4
M	8.2
1/4	7.0
crb	6.2
E	4.9

		25956		
		0+25 S		
E			0.00	
crb			1.5	
11A			2.9	
M			4.2	
11A			5.1	
crb			6.0	
W			7.6	
TP	10.33	26933	0.56	25900
		0+50		
W			14.3	
crb			12.5	
11A			11.0	
M			9.9	
11A			9.2	
crb			8.5	
E			7.6	

	26933		
	0+75		
E		5.7	
crb		6.6	
11A		7.6	
M		8.6	
11A		9.6	
crb		10.4	
W		11.5	
	1+0		
W		9.5	
crb		8.8	
11A		8.3	
M		7.1	
11A		6.2	
crb		5.2	
E		4.2	

269.33

16+22 on W 60' Wide

1+385=E=N Line Dwight St

E		3.1
crb		4.1
1/4		4.9
M		5.7
1/4		6.4
crb		7.1
W		7.9
	N curb	
W		7.7
crb		6.8
1/4		5.9
M		5.4
1/4		4.6
crb		3.8
E		3.0

269.33

N 1/4

E		2.9
crb		3.9
1/4		4.6
M		5.2
1/4		5.6
crb		6.6
W		7.3
	Center	
W		7.2
crb		6.4
1/4		5.7
M		5.1
1/4		4.5
crb		3.8
E		2.8
T.P	4.42	270.79 2.96 266.37

270.7.9
South 1/4

E	4.5
crb	5.3
1/4	6.1
M	6.5
1/4	7.2
crb	7.9
W	8.5

S. Curb

W	8.4
crb	7.6
1/4	7.0
M	6.4
1/4	6.1
crb	5.3
E	4.5

16+82 on the West
1+985 on E=S Line of S. Dwight St

E	4.6
crb	5.5
1/4	6.0
M	6.4
1/4	7.1
crb	7.7
W	8.2

0+25

W	8.1
crb	7.6
1/4	7.2
M	6.6
1/4	6.2
crb	5.7
E	4.8

		270.79			
		0+50			
E			5.3		
crb			6.1		
1/4			6.7		
M			7.2		
1/4			7.6		
crb			8.1		
W			8.4		
		0+75			
W			9.3		
crb			8.9		
1/4			8.4		
M			8.1		
1/4			7.4		
crb			6.9		
E			6.3		

		270.79			
		1+0			
E			7.5		
crb			8.2		
1/4			8.9		
M			9.3		
1/4			9.8		
crb			10.3		
W			10.7		
		1+25			
W			12.0		
crb			11.7		
1/4			11.5		
M			10.6		
1/4			10.4		
crb			10.0		
E			9.3		
TP	1.60	260.93	11.46	259.33	at Sta 15.0 on top of 2x2 hub

260.93

1+50

E	1.9
crb	2.4
1/4	2.8
M	3.9
1/4	4.6
crb	5.2
W	5.5

1+75

W	9.6
crb	9.6
1/4	8.5
M	7.6
1/4	6.8
crb	5.8
E	4.9

260-93

2+0

E	7.9
crb	8.6
1/4	9.7
M	10.8
1/4	11.7
crb	12.6
W	13.3

TP	6.69	255.31	12.31	248.62

2+25

W	12.0
crb	10.7
1/4	9.1
M	8.4
1/4	7.2
crb	6.0
E	4.4

		265,31		
		2+50		
E			6.4,	
crb			8.8	
1/4			9.0	
M			9.4	
1/4			10.2	
crb			11,2	
W			12.4	
		2+75		
W			7.1	
crb			5.9	
1/4			4.8	
M			3,8	
1/4			3,0	
crb			2,3	
E			1.7	
T.P.	11,78	266,10	0,99	254,32

		266,10		
		3+0		
E			10,0	
crb			10,2	
1/4			10,4	
M			10,9	
1/4			11,5	
crb			12.2	
W			13.4	
		3+25		
W			10,2	
crb			9.5	
1/4			9.2	
M			8.5	
1/4			8.2	
crb			7.9	
E			7,7	

26610

3+50

E	5.5
crb	5.9
1/4	6.2
M	6.7
1/4	7.0
crb	7.4
W	8.2

3+75

W	7.2
crb	6.6
1/4	6.0
M	5.6
1/4	4.9
crb	4.7
E	4.6

T.P 5.02 26761 3.51 26259

26761

4+0

E	5.3
crb	5.7
1/4	6.1
M	6.6
1/4	7.0
crb	7.4
W	8.1

4+25

W	7.5
crb	7.1
1/4	6.5
M	6.0
1/4	5.6
crb	5.2
E	4.8

2+67.61

4+50

E 4.7

crb 5.1

1/4 5.5

M 6.0

1/4 6.5

crb 7.0

W 7.5

21+62.3 on W 80' Wide 5' 1/2 P

4+80.3 on E = N Line Myrtle on West

W 8.3

crb 7.7

1/4 7.2

M 6.6

1/4 5.9

crb 5.8

E 5.5

2+67.61

North Curb

E 6.3

crb 6.9

1/4 7.4

M 7.8

1/4 8.4

crb 8.7

W 9.6

North 1/4

W 10.2

crb 9.3

1/4 8.8

M 8.2

1/4 7.9

crb 6.5

E 6.8

		267.61		
		Center		
E			9.3	
crb			9.7	
1/4			10.5	
M			11.3	
1/4			11.9	
crb			12.8	
W			13.8	
T.P	1.13	256.99	11.75	255.86
		South 1/4		
W			6.9	
crb			5.5	
1/4			4.3	
M			3.3	
1/4			2.2	
crb			1.2	
E			0.6	

		South Curb		
E			1.5	
crb			2.4	
1/4			3.5	
M			4.5	
1/4			5.7	
crb			7.1	
W			8.6	
		= 224.423 on West		
		57.603 = S Line Mystic on E		
W			14.1	
crb			12.2	
1/4			10.2	
M			8.3	
1/4			7.3	
crb			6.2	
E			4.8	
TP	0.78	245.60	12.17	244.82

24560

0+25 S

E	6.3
crb	8.5
1/4	9.8
M	11.2
1/4	12.1
crb	13.4
W	16.2

0+39 = 22+82 on the West Line of South Myrtle

W	22.0
crb	19.6
1/4	19.1
M	18.7
1/4	17.6
crb	16.0
E	14.3

S curb S Myrtle

E	19.0
crb	19.5
1/4	17.9
M	18.4
1/4	19.0
crb	19.2
W	19.0

S 1/4

W	15.9
crb	15.9
1/4	15.6
M	14.9
1/4	15.0
crb	15.3
E	15.2

	Center South Myrtle		
E.	12.7	245.60	
crb	13.6		
1/4	13.7		
M	12.7		
1/4	12.0		
crb	11.5		
W	11.1		
	S 1/4		
W	6.2		
crb	7.0		
1/4	7.7		
M	8.1		
1/4	8.7		
crb	8.9		
E	9.2		

		245.60		
		S. Curb		
E			5.0	
crb			4.3	
1/4			2.9	
M			1.9	
1/4			1.4	
crb			1.4	
W			1.0	
0.997 = S Line South Myrtle St E				
+23+42 " " " W				
T.P	13.00	257.59	1.01	244.59
W			7.5	
crb			8.6	
1/4			9.6	
M			9.9	
1/4			10.8	
crb			12.0	
E			13.3	
T.P.	10.41	267.04	0.96	256.63

26704

0+25 S

E	9,8
crb	9,5
W4	9,5
M	9,4
W4	9,5
crb	9,6
W	9,5

0+50

W	6,8
crb	6,5
W4	6,2
M	6,0
W4	5,8
crb	5,6
E	5,8

26704

0+75

E	3,7
crb	4,1
W4	4,3
M	4,9
W4	5,3
crb	5,8
W	6,3

T.P. 614 27066 2,52 264,52

1+0

W	9,8
crb	9,1
W4	8,5
M	8,9
W4	7,2
crb	6,7
E	6,4

27066

1+25

E	6.2
crb	6.7
1/4	6.9
M	7.6
1/4	8.3
crb	9.2
W	9.9

592 27044 26452

1+00

W	9.9
crb	9.1
1/4	8.2
M	7.3
1/4	6.7
crb	6.1
E	5.7

1+75

E	5.7
crb	6.3
1/4	6.8
M	7.4
1/4	8.1
crb	9.1
W	9.8

12' Walks 5 1/4°

1+98.5 on E=N Line Upass

W	9.9
crb	8.9
1/4	8.0
M	7.1
1/4	6.6
crb	6.2
E	5.6

North Curb

E	5.6
crb	6.1
1/4	6.4
M	7.0
1/4	8.2
crb	8.9
W	10.0

N. 1/4

W	10.1
crb	8.9
1/4	8.1
M	6.8
1/4	6.4
crb	6.1
E	5.6

Center

E	5.8
crb	6.2
1/4	6.9
M	7.4
1/4	8.6
crb	9.8
W	10.7

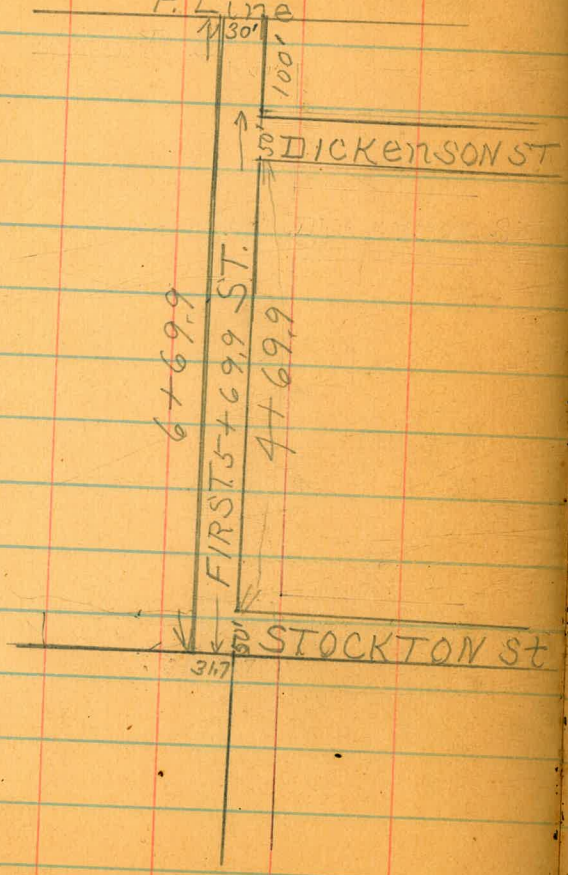
S 1/4

W	11.3
crb	10.0
1/4	8.8
M	7.6
1/4	7.1
crb	6.6
E	6.0

S curb

E	6.1
crb	6.6
1/4	7.2
M	7.8
1/4	9.1
crb	9.9
W	11.4
Park Line =	26+16.7 on E 26+16.9 on W
W	11.3
crb	10.0
1/4	9.3
M	8.2
1/4	7.4
crb	6.8
E	6.22

Cross section First St. South Line Stockton
North to P Line 8' Walks on E 10' ½



B.M. S.W. Cor. 3rd + Stockton RR Spike

	2.70	289.10		286.40
T.P.	10.54	298.46	1.18	287.92

50' wide 5 ½ S

0.0 = South Line Stockton on E

E	6.3	292.2
+1	5.4	293.1
cb	5.2	293.3
		293.5
½	4.8	293.7
W	4.0	294.5

South Curb

W	4.6	293.9
½	5.1	293.4
		293.3
cb	5.3	293.2
E	6.6	291.9

S ½

E	6.3	292.2
cb	5.3	293.2
½	5.2	293.3
W	4.7	293.8

298.5

Center Stockton

W	3.9	294.6
11+	5.0	~~293.5~~ 293.3
crb	5.4	293.1
E	6.5	292.0

N 11+

E	7.1	291.4
crb	5.4	293.1
11+	4.2	~~294.3~~ 293.7
W	2.8	295.7

N. crb

W	2.9	295.6
11+	4.0	~~294.5~~
crb	5.2	293.3 293.9
E	6.5	292.0

North Line Stockton on E = 0+50 m W 36

E	6.2 5.1	292.3 293.4
+1 crb	5.1	293.4
11A	4.2	~~294.3~~ 293.9
W	3.1	295.4

0+75 +25

W	4.6	293.9
11+	4.3	~~294.2~~
crb	3.7	294.8 294.5
E	3.9	294.6

1+0 +50

E	5.1	293.4
crb	4.9	293.6
11+	4.8	~~293.7~~ 293.7
W	4.6	293.9

	1+25	+15'	
W		4.8	293.7
1/4		4.9	~~293.6~~
crb		4.9	293.6
E		5.2	293.3
	1+50	+10.0	
E		5.3	293.2
crb		5.5	~~293.4~~
1/4		5.1	~~293.4~~
W		5.0	293.5
	1+75	+15'	
W		4.9	293.6
1/4		4.5	~~293.0~~ 293.5
crb		4.9	~~293.6~~
E		5.2	293.3

298.46

	2+0	+50	
E		6.1	292.4
crb		5.8	292.7
1/4		5.7	292.7 ~~292.8~~
W		5.8	292.7
	2+25	+17.5'	
W		7.2	291.3
1/4		8.0	~~290.5~~
crb		7.9	290.5 ~~290.6~~
E		8.5	290.0
	2+50	+20.0	
E		10.1	288.4
crb		9.8	288.7
1/4		9.2	289.0 ~~289.3~~
W		8.6	289.9

298.46

			2+75		W 5
W			12.4	286.1	
1/4			12.3	~~286.2~~	
crb			12.3	~~286.2~~	
E			12.2	286.3	
T.P	1.25	287.31	12.40	286.06	
			3+0		W 50
E			7.0	280.3	
crb			7.9	~~279.4~~	
1/4			8.6	279.0 ~~278.7~~	
W			7.9	279.4	
T.P	2.71	277.36	12.66	274.65	
			3+25		W 5
W			5.4	272.0	
1/4			7.9	~~269.5~~	
crb			7.7	269.6 269.7	
E			7.5	269.9	

			3+40 = Bottom		W 40
E			14.3	263.1	
crb			15.0	262.4	
1/4			11.9	263.9 ~~265.5~~	
W			8.9	268.5	
			3+50		W 00
W			5.2	272.2	
1/4			7.4	~~270.0~~	
crb			11.1	268.2 ~~266.3~~	
E			14.5	263.0	
T.P	10.45	286.25	1.56	275.80	
			3+75		W 5
E			17.5	268.8	
crb			13.4	272.9	
1/4			10.0	274.5 ~~276.2~~	
W			5.3	281.0	

286.3

4+0 350

W			0.3	286.0
+4			0.4	285.9
+6			4.0	282.3
1/4			8.3	~~278.0~~
crb			10.2	277.0 276.1
E			9.9	276.4
TP	8.53	294.37	0.41	285.84

4+25 375

E			8.6	285.8
crb			8.3	286.1
1/4			8.3	286.1 ~~286.1~~
W			8.1	286.3

4+50 400

W			7.6	286.8
1/4			7.5	~~286.9~~
crb			7.2	287.0 287.2
E			7.0	287.4

4+75 +25

E			6.0	288.4
crb			6.5	287.9
1/4			7.2	287.5 ~~287.2~~
W			7.3	287.1

5+0 450

W			6.5	287.9
1/4			6.7	~~287.7~~
crb			6.7	287.7 287.7
E			6.5	287.9

ON THE East 50' Wide 469.9

5+19.9 = South Line Dickenson St 5' 1/4s

E			6.1	288.3
crb			5.9	288.5
1/4			5.5	288.7 ~~288.9~~
M			6.1	288.3

294.4

South Curb

W	6.0	288.4
1/4	5.4	289.0
crb	5.5	288.9
E	5.8	288.6

S 1/4

E	5.5	288.9
crb	5.5	288.9
1/4	5.7	~~288.7~~ 288.8
W	5.6	288.8

Center

W	5.4	289.0
1/4	5.3	~~289.1~~ 289
crb	5.4	289.0
E	5.2	289.2

N 1/4

E	5.0	289.4
crb	4.6	289.8
1/4	4.5	~~289.9~~ 289.9
W	4.8	289.6

N. Curb

W	4.4	290.0
1/4	4.1	~~290.3~~ 290.1
crb	4.4	290.0
E	4.8	289.6

5+699 on E = N. Line Dickenson

E	4.2	290.2
crb	3.9	290.5
1/4	3.6	~~290.8~~ 290.7
W	3.5	290.9

TP	6.63	298.13	2.87	291.50

298.1

0+25 N

W	6.4	291.7
1/4	6.5	~~291.6~~ 291.6
crb	6.2	291.9
E	6.3	291.8

0+50

E	5.4	292.7
crb	5.4	292.7
1/4	5.3	292.8
W	5.4	292.7

0+75

W	4.6	293.5
1/4	4.7	293.4
crb	4.8	293.3
E	4.7	293.4

1+00 = P Line

E	4.6	293.5
crb	4.5	293.6
1/4	4.5	293.6
W	4.6	293.5

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Shaw
Evans
Trichoria

X Sec. Ingalls St. Lewis to Broadway.

20' Walks 5' 1/4s

B.M. R.R.Spk. S.E. Cor Lewis + Ingalls 275.87

5.12 280.99 275.87

N. Line Lewis

W	3.8	277.2
crb	4.4	
1/4	4.4	
ctr	4.6	275.4
1/4	4.7	
crb	4.9	
E	4.6	275.4

280.99

0+25 North

E	3.2	277.8
crb	3.6	
1/4	3.6	
M	3.9	277.1
1/4	3.7	
crb	3.8	
W	4.2	276.8

0+50

W	4.9	276.1
crb	4.2	
1/5	4.0	
M	4.0	277.0
1/4	3.7	
crb	3.5	
E	3.2	277.8

280.99

0+75

E	3.6	277.4
crb	3.9	
1/4	4.2	
M	4.3	276.7
1/4	4.5	
crb	4.7	
W	5.2	275.8

1+00

W	5.6	275.4
crb	5.3	
1/4	5.0	
M	4.8	276.2
1/4	4.8	
crb	4.3	
E	3.8	277.2

280.99

1+25

E	4.1	276.9
crb	4.7	
1/4	5.0	
M	5.1	275.9
1/4	5.4	
crb	5.6	
W	5.8	275.2

1+50

W	6.1	274.9
crb	5.7	
1/4	5.8	
M	5.4	275.6
1/4	5.2	
crb	4.7	
E	4.5	276.5

280.99

1+75

E	5.1	275.9
crb	5.4	
1/4	5.7	
M	5.8	275.2
1/4	6.0	
crb	6.1	
W	6.2	274.8

2+0

W	6.3	274.7
crb	6.2	
1/4	6.0	
M	6.0	275.0
1/4	6.2	
crb	6.0	
E	5.9	275.1

280.99

2+25

E	6.6	274.4
crb	6.6	
1/4	7.0	
M	6.9	274.1
1/4	6.8	
crb	6.6	
W	6.6	274.4

2+50

W	7.6	273.4
crb	7.8	
1/4	8.1	
M	7.9	273.1
1/4	7.9	
crb	7.3	
E	7.4	273.6

	280.99		
	2+75		
E		8.6	272.4
crb		8.5	
1/4		9.1	
M		9.0	272.0
1/4		9.4	
crb		9.5	
W		9.7	271.3
	3+0 = S. Line Broadway		
W		10.7	270.3
crb		10.7	
1/4		10.5	
M		10.2	270.8
1/4		9.7	
crb		9.5	
E		9.2	271.8

X Sec. Ingalls. S. Line Ghetti to N. line Douglass
2.0' Walks 5' 1/4s
B.M. R.R. Spk. S.E. Cor Lewis + Ingalls

B.M	2.08	277.95		275.87
	South Line Ghetti St			
W			3.8	274.2
crb			4.4	
1/4			4.3	
M			4.6	273.4
1/4			5.0	
crb			5.2	
E			5.0	272.9
	0+25 South			
E			5.1	272.9
crb			5.6	
1/4			5.1	
M			4.8	273.2
1/4			4.7	
crb			4.7	
W			4.5	273.5

Shaw
Evans
Tichinor
29/12/10

	0+50			
W			5.1	272.9
crb			5.1	
1/4			5.1	
M			5.2	272.8
1/4			5.1	
crb			5.2	
E			5.3	272.7
	0+75			
E			5.4	272.6
crb			5.5	
1/4			5.5	
M			5.4	272.6
1/4			5.4	
crb			5.5	
W			5.7	272.3

277.95

1+0

W	6.2	271.8
crb	5.9	
1/4	5.8	
M	5.8	272.2
1/4	5.6	
crb	5.6	
E	5.4	272.6

1+25

E	6.5	271.5
crb	6.4	
1/4	6.3	
M	6.3	271.7
1/4	6.5	
crb	6.5	
W	7.0	271.0

277.95

1+50

W	7.8	270.2
crb	7.6	
1/4	7.3	
M	7.3	270.7
1/4	7.3	
crb	7.5	
E	7.8	270.2

1+75

E	9.4	268.6
crb	9.0	
1/4	8.8	
M	8.7	269.3
1/4	8.8	
crb	9.0	
W	9.3	268.7

		277.95		
		2+0		
W			10.7	267.3
crb			10.7	
1/4			10.6	
M			10.5	267.5
1/4			10.5	
crb			10.6	
E			10.4	267.6
		2+25		
E			11.7	266.3
crb			12.1	
1/4			12.2	
M			12.4	265.6
1/4			12.2	
crb			12.2	
W			11.9	266.1

		277.95		
		2+50		
W			13.0	265.0
crb			13.5	
1/4			13.7	
M			13.5	264.5
1/4			13.6	
crb			13.6	
E			13.5	264.5
T.P	3.41	269.00	12.36	265.59
		2+75		
E			6.4	262.6
crb			6.4	
1/4			6.3	
M			6.0	263.0
1/4			5.7	
crb			5.2	
W			4.0	265.0

269.00 50' Wide 5" 1/4

370 N Line Washington St

W	3.4	265.6
crb	4.3	
1/4	4.5	
M	5.7	263.3
1/4	7.0	
crb	7.5	
E	8.1	260.9

North Curb

E	9.1	259.9
crb	7.5	
1/4	7.1	
M	5.7	263.3
1/4	4.6	
crb	4.3	
W	3.3	265.7

269.00

North 1/4

W	3.3	265.7
crb	4.4	
1/4	4.7	
M	5.7	263.3
1/4	7.2	
crb	7.6	
E	9.2	259.8

Center

E	9.5	259.5
crb	7.9	
1/4	7.3	
M	5.8	263.2
1/4	4.5	
crb	4.3	
W	2.7	266.3

269.00

South 1/4

W	2.2	266.8
crb	4.0	
1/4	4.4	
M	5.9	263.1
1/4	7.7	
crb	8.2	
E	9.8	259.2

South Curb

E	9.9	259.1
crb	8.1	
1/4	7.6	
M	5.8	263.2
1/4	4.2	
crb	3.7	
W	1.8	267.2

269.00

South Line Washington

W	1.0	268.0
crb	3.3	
1/4	3.9	
M	5.8	263.2
1/4	7.6	
crb	8.1	
E	10.4	258.6

0+25 South

E	10.3	258.7
crb	8.1	
1/4	7.6	
M	6.0	263.0
1/4	4.0	
crb	3.5	
+13	1.7	
+15	0.7	
W	0.7	268.3

269.00

0+50

W +4	0.8		
	2.6		
crb	4.5		
1/4	5.0		
M	6.6	262.4	
1/4	8.0		
crb	8.5		
E	10.8	258.2	

0+75

E	11.7	257.3	
crb	9.3		
1/4	8.8		
M	7.8	261.2	
1/4	6.4		
crb	6.0		
+17 W	4.2		
	2.6	266.4	

269.00

1+0

W		5.4	263.6	
crb		7.1		
1/4		7.5		
M		9.1	259.9	
1/4		10.3		
crb		11.1		
E		13.5	255.5	
TP	6.76	263.83	11.93	257.07

1+25

E	12.4	251.4	
crb	7.8		
1/4	6.9		
M	5.2	258.6	
1/4	3.6		
crb	2.9		
W	1.5	262.3	

263.83

1+50

W	2.4	261.4
crb	4.3	
1/4	4.5	
M	5.8	258.0
1/4	8.7	
crb	9.3	
E	15.9	247.9

1+75

E	15.4	248.4
crb	8.9	
1/4	8.2	
M	6.6	257.2
1/4	5.3	
crb	4.8	
W	3.2	260.6

263.83

2+0

W	4.2	259.6
crb	5.2	
1/4	5.6	
M	6.2	257.6
1/4	7.5	
crb	7.9	
E	13.2	250.6

2+25

E	14.3	249.5
crb	9.0	
1/4	8.9	
M	7.3	256.5
1/4	6.1	
crb	6.1	
W	5.0	258.8

		263.83		
		2+50		
W			6.5	257.3
crb			7.2	
1/4			7.6	
M			8.7	255.1
1/4			10.3	
crb			12.2	
E			17.1	246.7
TP	5.70	257.10	12.43	251.40
		2+75		
E		15.5		241.6
crb		10.3		
1/4		9.1		
M		6.0		251.1
1/4		3.4		
crb		2.3		
W		1.3		255.8

257.10

3+0 North Line Douglass St

58

W	8.5	248.6
crb	8.5	
1/4	9.1	
M	11.8	245.3
1/4	15.3	
crb	16.1	
E	20.3	236.8

3/16/11 | Clough Pohnan Tulypolen | Rex See of Maple St (80) India St to State St

	4.64	100.00		95.36	BM PP Hwy 125 W of Cent of Columbia
	W Sin of Columbia St				
n			(+0.2 / 6.6)	100.2 / 93.4	
bh			(0.6 / 6.9)		
y			(2.5 / 7.0)		
b			(4.0 / 7.2)	96.0 / 92.8	
y	+2'		5.7 / 6.3	94.3 / 93.7	
bh			7.6		
S			7.8	92.2	
	25' W of Columbia				
S			7.1	92.9	
bh			6.4		
y			5.5		
b			4.5	95.5	
y			3.5		
bh			1.8		
n			0.5	99.5	

100.00

Maple St

54

	50' W of Columbia				
n			0.0	100.0	
	+2'		1.3		
bh			3.3		
y			3.9		
b			5.8	94.2	
y			6.0		
bh			6.5		
S			7.1	92.9	
	75' W of Columbia				
S			7.3	92.7	
	+2' +4'		7.2 / 7.8		
bh			7.5		
y			7.2		
b			7.6	92.4	
	+7 +11		7.7 / 5.5		
y			5.2		
bh			5.8		
	+5		5.5		
n			1.4	98.6	

100.00

100 w of Columbia

n				34	96.6
	+1'			3,5	
	+9'			9,2	
bh				9,4	
y				10,0	
b				9,3	90.7
y				8,9	
bh				8,8	
	+10'			9,0	
	+11'			7,7	
S				7,9	92.1

125' w of Columbia

S				8,2	91.8
	+3'			9,0	
	+4'			11,2	
bh				10,7	
	+4'			10,4	
y	+7'			15,0	
				15,2	
b				15,4	84.6
y				13,3	
bh				12,8	
	+6'			11,5	
n				5,0	95.0

100.00

Maple st

150' w of Columbia

n				6,9	93.1
	+1			7,1	
	+8'			13,3	
bh				15,0	
y				15,6	
b				16,8	83.2
y				18,0	
bh				18,0	
	+5'			17,4	
	+12'			10,9	
S				10,9	89.1

Old X-sec is OK from Here

		100.00		
	E Sin of Columbia			
n			(15 / 6.7)	85.0 / 93.3
bh			(3.2 / 7.2)	
y			(4.7 / 7.3)	
b			7.2	92.8
y			7.7	
bh			(7.5 / 8.0)	
S			7.8	92.2
	25'	E of	Columbia	
s			9.1	90.9
bh			8.7	
y			8.5	
b			8.4	91.6
y			6.5	
bh			4.6	
n			1.8	98.2

		100.00			Maple
					56
	50'	E of	Columbia		
n			5.0	95	
bh			7.8		
y			10.0		
b			9.6	90.4	
y			9.6		
bh			9.1		
S			9.8	90.2	
	75'	E of	Columbia		
s			12.6	87.4	
bh			9.8		
y			9.7		
b			9.7	90.3	
y			11.7		
bh			12.1		
n			9.8	90.2	
TP	1.80	88.80	13.00	87.00	

8880

100 Ef columbia

n			2.5	86.3
th			3.7	
y			3.5	
	47'		1.6	
l			1.6	87.2
y			1.0	
th			3.2	
s			7.8	81.0

116 Ef columbia

s			9.4	79.4
th			6.8	
y			5.2	
	49'		5.2	
l			7.3	81.5
y			9.3	
th			8.2	
	41.3'		6.0	
n			5.0	83.8

8880

Maple

57

125 Ef columbia s.

n			6.3	82.5
	42'		8.0	
th			9.3	
y			12.2	
l			12.2	76.6
y			8.6	
th			10.6	
s			14.4	94.4
TP	1.00	77.27	12.50	76.27

150 Ef columbia

s			17.5	59.6
th			15.3	
y			16.0	
l			10.9	66.4
y			8.3	
th			5.5	
n			1.1	76.2

7727

160' E of Columbia

R		3.4	76.9
bk		7.9	
y		11.2	

175' E of Columbia

R2		7.3	70.0
bk		10.4	
STP	0.9V	12.86	64.71

160' E of Columbia

S	+4'	11.5	53.8
		9H	
bk		9.2	
y		8.6	
b	+6'	6.2	59.1
		09	

6533

175 E of Columbia

S		12.2	53.1
bk	+5'	11.8	
	+10	11.6	
y		9.0	
		9.0	
b		8.7	56.6
y		2.7	

300' E = W2 of State St

R	+6'	4.1	61.2
		7.2	
bk	+7'	7.5	
		7.6	
y		10.7	
b		11.5	53.8
		11.7	
bk		11.8	
S		12.0	53.3

Maple

58

4. Clough X Sec of D St (80) WL 29 to WL 31 st
25 Dorman
11 Fitzpatrick

	2,15	197.45		195.30	BM SE (S) C & 30
	W Line of 30th St (80) (Graded)				
S		197.5	2,3	195.2	
bb			2,5	195.0	
y			3,0	194.5	
b			3,9	193.6	
y			4,7	192.8	
bb			5,4	192.1	
n			5,4	192.1	
To Slope	18' W of 30th St on NL / WL on S				
n			16,8	180.7	
bb			13,1	184.4	
y			10,8	186.7	
b			8,6	188.9	
y			6,2	191.3	
bb			4,0	193.5	
S			2,3	195.2	

		197.45			D St
	25' W of 30th St				
S		197.5	2,3	195.2	
bb			4,0	193.5	
y			6,4	191.1	
b			9,4	188.1	
y			12,6	184.9	
bb			15,0	182.5	
n			—		
	50 W of 30th St				
S			2,8	194.7	
bb			4,6	192.9	
y			7,4	190.1	
b			11,3	186.2	
y			14,8	182.7	
bb			—		
n			—		

		19745		
	750	W J	30 ft st	
S		197.5	4,8	192.7
bk			7,7	189.8
4			10,9	186.6
b			14,8	183.5
	100	W J	30 ft st	
S			8,4	188.9
bk			11,3	186.2
4			14,3	183.2
	125	W J	30	194.5
S			12,3	185.2
TP	233	186.91	12,87	184.58
	75	W J	30 ft st	
N.L			6,5	180.4
	50	W J	30 ft st	
N L			9,5	177.4
bk			6,6	180.3

		186.91		
	75	W J	30 ft st	
N		186.9	12,8	174.1
bk			9,0	177.9
4			6,7	180.2
	100	W J	30 ft st	
b			7,3	179.6
4			10,4	176.5
bk			13,6	173.3
N L			—	
	125	W J	30 ft st	
S bk			4,1	182.8
4			8,0	178.9
b			10,9	176.0
4			14,9	172.0
	150	W J	30 ft st	
S			5,4	181.5
bk			8,2	178.7
4			12,0	174.9
b			16,0	170.9

		186.91		
	175	W f	30 th st	
S		186.9	9.6	177.3
bh			13.0	173.9
4			17.1	169.8
	200	W f	30 th st	
S 2			15.4	171.5
TP	4.33	178.49	12.75	174.16
	100	W f	30	
W 2		178.5	10.4	168.1
	125	W f	30 th st	
N 2			13.0	165.5
bh			9.8	168.7
	150	W f	30 th st	
W 2			17.4	161.1
bh			13.5	165.0
4			10.9	167.6

		178.49		
	175	W f	30 th st	
bench		178.5	12.4	166.1
N 1/4			14.8	163.7
	200	W f	30 th st	
S			7.0	171.5
bh			10.2	168.3
4			13.2	165.3
6			16.8	161.7
	225	W f	30 th st	
S			13.3	165.2
TP	2.15	167.71	12.84	165.61
	175	W f	30 th st	
N		167.8	11.0	156.8
bh			7.9	159.9

		167.76		
	200'	w f	30 ft	st
n		167.8	14.4	153.4
n bh			11.7	156.1
n 4			8.8	159.0
	225'	w f	30 ft	st
S bh			5.6	162.2
4			8.0	159.8
b			10.0	157.8
4			12.8	155.0
bh			15.8	152.0
	250'	w f	30 ft	st
S L			9.1	158.7
bh			10.4	157.4
4			12.0	155.8
b			13.9	153.9
TP	178	156.54	73.00	154.76

		156.54		
	225'	w f	30 ft	st
n L		156.5	6.8	149.7
	250'	w f	30 ft	st
n L			8.6	147.9
bh			7.3	149.2
4			5.4	151.1
	275'	w f	30 ft	st
S			2.5	154.0
bh			2.8	153.7
4			4.3	152.2
b			6.5	150.0
4			8.7	147.8
bh			10.2	146.3
n			10.1	146.4

156.54

	300'	w of	30th	st
n		156.5	10.6	145.9
	+6'		11.7	144.8
bh			11.7	144.8
y			11.2	145.3
b			9.7	146.8
y			7.7	148.8
bh			6.4	150.1
S			5.9	150.6
	325'	w of	30th	st
S			10.4	146.1
bh			10.2	146.3
y			11.3	145.2
b			12.8	143.7
y			12.6	143.9
bh			12.8	143.7
n			13.1	143.4

156.54

D st

63

	350'	w of	30th	st
n		156.5	13.9	142.6
bh			13.8	142.7
y			19.9	136.6
b			13.7	142.8
y			14.3	142.2
bh			14.7	141.8
S			15.2	141.3
	375'	w of	30th	st
S			15.5	141.0
bh			15.4	141.1
y			15.3	141.2
b			15.0	141.5
y			14.3	142.2
bh			13.7	142.8
n			13.6	142.9

156.54

	400'	W of	30th st	
R		156.5	9.4	147.1
bk			8.3	148.2
G			8.0	148.5
L			8.7	147.8
G			8.7	147.8
bk			9.4	147.1
S			10.0	146.5

	425	W of	30th st	
S			2.3	154.2
bk			0.7	155.8
G			0.0	156.5
TP	12.43	168.97	0.0	156.54
L		169.0	11.8	157.2
G			12.0	157.0
bk			12.3	156.7
R			12.4	156.6

168.97

D 24

	450'	W of	30th st	
R		169.0	3.9	165.1
bk			3.2	165.8
G			2.7	166.3
L			2.4	166.6
G			2.5	166.5
bk			2.4	166.6
S			2.3	166.7
TP	12.85	181.70	0.12	168.85

	475	W of	30th st	
S		181.7	6.0	175.7
bk			6.0	175.7
G			6.3	175.4
L			7.0	174.7
G			7.8	173.9
bk			8.0	173.7
R			8.3	173.4
TP	12.85	173.06	0.79	181.11

		19306		
	500	wf	30 it	st
n		193.1	11.9	181.2
bl			11.8	181.3
y			11.4	181.7
b			11.2	181.9
y			10.9	182.2
bl			11.0	182.1
S			11.1	182.0
	525	wf	30 it	st
S			9.4	183.7
bl			8.9	184.2
y			7.9	185.2
b			7.4	185.7
y			7.2	185.9
bl			7.1	186.0
n			6.6	186.5

		19306		
	550	wf	30 it	st
n		193.1	4.8	188.3
bl			4.6	188.5
y			5.2	187.9
b			5.8	187.3
y			7.0	186.1
bl			8.0	185.1
S			9.2	183.9
	575	wf	30 it	st
S			9.2	183.9
bl			7.7	185.4
y			6.7	186.4
b			5.1	188.0
y			4.4	188.7
bl			4.0	189.1
n			3.6	189.5

19306

600' W = E S of 29th st (60)

n	193.1	3,3	189.8
bh		3,5	189.6
y		4,0	189.1
b		4,6	188.5
y		5,8	187.3
bh		7,1	186.0
S		8,6	184.5

E bb of 29th st

S		8,3	184.8
bh		7,0	186.1
y		5,7	187.4
b		4,5	188.6
y		3,7	189.4
bh		3,2	189.9
n		3,0	190.1

19306

D st

66

E 1/4 of 29th st

n	193.1	3,0	190.1
bh		3.1	1900
y		3,4	189.7
b		4,3	188.8
y		5,2	187.5
bh		7.1	186.0
S		8.1	185.0

Center of 29th st

S		8,0	185.1
bh		6,9	186.2
y		5,5	187.6
b		4,5	188.6
y		3,5	189.6
bh		3,0	190.1
n		2,8	190.3

1930b

W ¼ of 29th St

R	193.1	2.7	190.4
bb		3.1	189.9
y		3.6	189.5
b		4.4	188.7
g		5.4	187.7
bl		6.9	186.2
S		8.0	185.1

W bb of 29th St

S		8.0	185.1
bb		6.7	186.4
g		5.3	187.8
b		4.1	188.9
y		3.6	189.5
bl		3.1	190.0
R		2.7	190.4

1930L

W line of 29th St

R	193.1	2.5	190.6
bl		3.1	190.0
y		3.6	189.5
b		4.3	188.8
g		5.3	187.8
bl		6.9	186.2
S		8.4	184.7

4/26/11 Clough Dinner Fitzpatrick

X sec of D st (80) E L 30th W L 31

	790	203.20		195.30	BM SE 6+30
	E Line of		30th st	(30th st Graded)	
n		203.2	8.9	194.3	
bh			9.3	193.9	
4			9.5	193.7	
b			8.7	194.5	
4			9.5	193.7	
bh			9.3	193.9	
S			8.0	195.2	
	6	E of	30th st		
S			7.8	195.4	
bh			9.5	193.7	
4			10.0	193.2	
b			10.7	192.5	
4			11.7	191.5	
bh			12.2	191.0	
n			12.3	190.9	

20320

D st

	25	E of	30th st	
n		203.2	11.5	191.7
bh			10.4	192.8
4			10.4	192.8
b			8.6	194.6
4			8.9	194.3
bh			8.6	194.6
S			7.4	195.8
	50	E of	30th st	
S			6.7	196.5
bh			7.6	195.6
4			7.9	195.3
b			7.5	195.7
4			7.4	195.8
bh			7.6	195.6
n			7.5	195.7

203.20

	75' E of	30th St	
h	203.2	5.3	197.9
bh		5.6	197.6
4		5.9	197.3
b		5.8	197.4
4		5.9	197.3
bh		5.9	197.3
S		5.7	197.5
	100' E of	30th St	
S		5.2	198.0
bh		5.0	198.2
4		4.7	198.5
b		4.7	198.5
4		4.6	198.6
bh		4.4	198.8
h		4.1	199.1

203.20

	125' E of	30th St	
h	203.2	3.3	199.9
bh		3.6	199.6
4		3.8	199.4
b		4.1	199.1
4		4.3	198.9
bh		4.7	198.5
S		4.7	198.5
	150 E of	30th St	
S		4.4	198.8
bh		4.0	199.2
4		3.8	199.4
b		3.7	199.5
4		3.4	199.8
bh		3.1	200.1
h		2.9	200.3

20320

	175'	E of	30th	st
h		203.2	3.0	200.2
bh			3.0	200.2
y			3.1	200.1
b			3.0	200.2
y			3.3	199.9
bh			3.8	199.4
S			4.0	199.2
	200'	E of	30th	st
S			3.7	199.5
bh			3.5	199.7
y			3.0	200.2
b			3.2	200.0
y			3.1	200.1
bh			3.3	199.9
h			3.6	199.6

20320

D st

	225'	E of	30th	st
h		203.2	5.2	198.0
bh			3.8	199.4
y			3.3	199.9
b			3.2	200.0
y			3.1	200.1
bh			3.4	199.8
S			3.7	199.5
	250'	E of	30th	st
S			3.5	199.7
bh			3.3	199.9
y			3.2	200.0
b			3.3	199.9
y			3.7	199.5
bh			5.1	198.1
h			7.0	196.2
	270	20284	3.06	200.14

202.84

	275'	E of	30th st	
S		202.8	3,1	199.7
bh			2,6	200.2
y			2,8	200.0
b			3,3	199.5
y			4,6	198.2
bh			6,8	196.0
n			8,9	193.9
	300'	E of	30th st	
n			11,7	191.1
bh			8,9	193.9
y			6,5	196.3
b			4,2	198.6
y			3,2	199.6
bh			3,2	199.6
S			3,5	199.3

202.84

D st

	325'	E of	30th st	
S		202.8	4,0	198.8
bh			3,9	198.9
y			4,1	198.7
b			6,2	196.6
y			9,5	193.3
bh			12,7	190.1
n			—	
	350'	E of	30th st	
S			6,8	196.0
bh			7,5	195.3
y			8,5	194.3
b			11,7	191.1
y			15,0	187.8
	375	E of	30th st	
S			11,1	191.7
bh			12,1	190.7
y			14.4	8.4

		20.84		
	0,47	190.34	1297	189.87
TP	325	E 7	30	187.3
R			3,0	187.3
	350	E 7	30	
R		190.3	7,3	183.0
bl			4,8	185.5
	375	E 7	30	
R			12,2	178.1
bl			9,4	180.9
4			7,0	183.3
L			4,2	186.1
	400	E 7	30	
S			2,0	188.3
bl			3,2	187.1
4			4,9	185.4
L			7,9	182.4
4			10,6	179.7
bl			13,6	176.7

		190.34		
	425	E 7	30	
S		190.3	3,7	186.6
bl			5,2	184.7
4			8,1	182.2
L			10,8	179.5
4			14,2	176.1
	450	E 7	30	
S			6,8	183.5
bl			8,0	182.3
4			9,8	180.5
L			13,8	176.5
TP	383	181.47	1270	177.64
	400	E 7	30	
R		181.5	9,2	172.3
	425	E 7	30	
R			13,8	167.7
bl			9,0	172.5

		181.47		
	450'	E of	30th st	
n 1/4		181.5	10.0	171.5
n bl			14.6	166.9
n s			—	
	475'	E of	30th st	
S		181.5	5.1	176.4
bl			5.8	175.7
y			8.0	173.5
b			11.0	170.5
y			15.8	165.7
	500'	E of	30th st	
S			10.1	171.4
bl			14.2	167.3
y			16.0	165.5
TP	0.16	168.66	12.97	168.50
	450'	E of	30th st	
n			6.2	162.3

		168.66		
	475'	E of	30th st	
n		168.7	12.8	155.9
bl			8.3	160.4
	500'	E	of 30 st	
n			—	
bl			14.0	154.7
y			9.8	158.9
b			6.3	162.4
	525'	E	of 30 st	
S			6.3	162.4
bl			8.4	160.3
y			11.6	157.1
b			13.3	155.4
TP	0.60	156.48	12.78	155.88
	500'	E	of 30 th st	
n			5.2	151.3

		156.48			
	525	E of	30 it	st	
n		156.5	10.5	146.0	
bh			7.3	149.2	
y			5.0	151.5	
	550'	E of	30	it st	
S			6.4	150.1	
bh			8.0	148.5	
y			8.8	147.7	
b			9.7	146.8	
y			11.9	144.6	
bh			13.0	143.5	
+6			13.2	143.3	
TP	0.72'	144.20	13.00	143.48	
n			3.7	140.5	

		144.20			D st
					74
	575'	E of	30 it	st	
n		144.2	10.3	133.9	
bh			7.6	136.6	
+6			5.3	138.9	
y			5.0	139.2	
b			5.6	138.6	
y			5.5	138.7	
bh			5.8	138.4	
S			5.0	139.2	
	600'	E of W	S of	31 st	st
S			11.8	132.4	
bh			11.6	132.6	
y			11.4	132.8	
b			11.6	132.6	
y			11.8	132.4	
bh			10.5	133.7	
n			7.44	136.76	n w H 31 + D

5 / Clough
10 / Dunnan
11 / Fitzpatrick

Levels for Slopes on D st
Bet 27 + 28th st 30' S of S Line

144.75 from Book 354 P 49

30' S of S Line of D st

W S of 28th st			5.9	138.8
18' W of 28th st			10.3	134.4
25' " "			8.8	135.9
50 " "			6.0	138.7
75 " "			3.5	141.2
TP	1240	156.91	0.24	144.51
100' " "			11.3	145.6
125 " "			8.3	148.6
150 " "			5.6	151.3
TP	1272	167.98	16.5	155.26
175 " "			12.6	155.4
200' " "			10.0	158.0
225 " "			5.0	163.0

5/12/11 | Clough Owen Fetzbrook

Levels for Slopes on D St
Bet 29 + 30th st N side

		148.73	from Book 354 P 50	
375' W of 30th St	35' out		4.8	143.9
350' W " "	35' "		5.1	143.6
340' " " "	35' "		5.1	143.6
325 " " "	29' "		0.7	148.0
TP	13.00	161.46	0.27	148.46
300' W of 30	23' out		9.1	152.4
275' " " "	23' out		8.5	153.0
250' " " "	26' out		9.0	152.5
225 " "	27.5 "		8.5	153.0
200 " "	33' out		9.8	151.7
175 " "	34.5 out		8.5	153.0
150 " "	38.2 out		8.7	152.8
125 " "	36' out		5.0	156.5
TP	11.70	172.84	0.32	161.14
100	30 out		10.2	162.6
75	26.5 out		5.3	167.5
TP	12.97	183.15	2.66	170.18

183.15 ✓

50' W of 30th	18' out	7.6	175.5
25 " " "	18 out	5.5	177.6
18' " " "	16' out	3.4	179.7

30th is graded

5 / 13 / 11 | Clough / Dorman / Fitz Polanski

Levels for Slopes on D St (80)
Bet 30 & 31st St

	554	142.30		136.76	Bm NW # 31 & D
	N Line of D St				
W S of 31 st	20.5 out		0.2	142.1	
25' W of 31	33 out		6.0	136.3	
50' W " "	8' "		5.2	137.1	
50 W " "	15' "		2.7	139.6	
50 " " "	30 "		1.6	140.7	
TP	12.48	154.53	0.25	142.05	
75' W of 31st	9' out		12.4	142.1	
75' " " "	22.0 "		7.3	147.2	
100' " " "	7' "		4.0	150.5	
100' " "	17' "		6.0	148.5	
100 " " "	22.5 "		4.0	150.5	
125' " " "	22.3 "		1.80	152.7	
TP	12.96	167.23	0.26	154.27	
150 " "	19' out		9.7	157.5	
175' W "	14' "		3.8	163.4	

	12.94	180.03	0.14	167.09	
200' W of 31	8' out		10.4	169.6	
225 " "	Prop		1.9	178.1	

Levels on North 50' Line Bush St. E of Goldfinch
Monument N.W Cor. Sutter + Goldfinch Sts

B.M	6.85	263.84		256.99
E Line Goldfinch				
0			4.4	
+25			5.5	
+50			6.8	
+75			7.9	
1+0			12.5	
T.P	1.88	253.11	12.61	251.23
1+25			7.0	
1+50			8.2	
1+75			8.8	
2+0			10.6	
+25			15.5	
T.P	1.58	242.32	12.37	240.74
+50			9.1	
+75			12.6	
3+0			15.3	
T.P	0.61	230.20	12.73	229.59

230.20

3+25			5.2	
+50			9.1	
T.P	1.73	219.17	12.76	217.44
+75			4.3	
4+0			8.2	
+25			9.4	
+50			10.4	
+72			11.7	Hall's Fence

57.26 NE Mon Woolman & 37

95.78 NW S Siegle & 38

83.009 Mon NW S Woolman & 38

79.56 N & W 38 & Woolman

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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	18.6	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.3	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.		