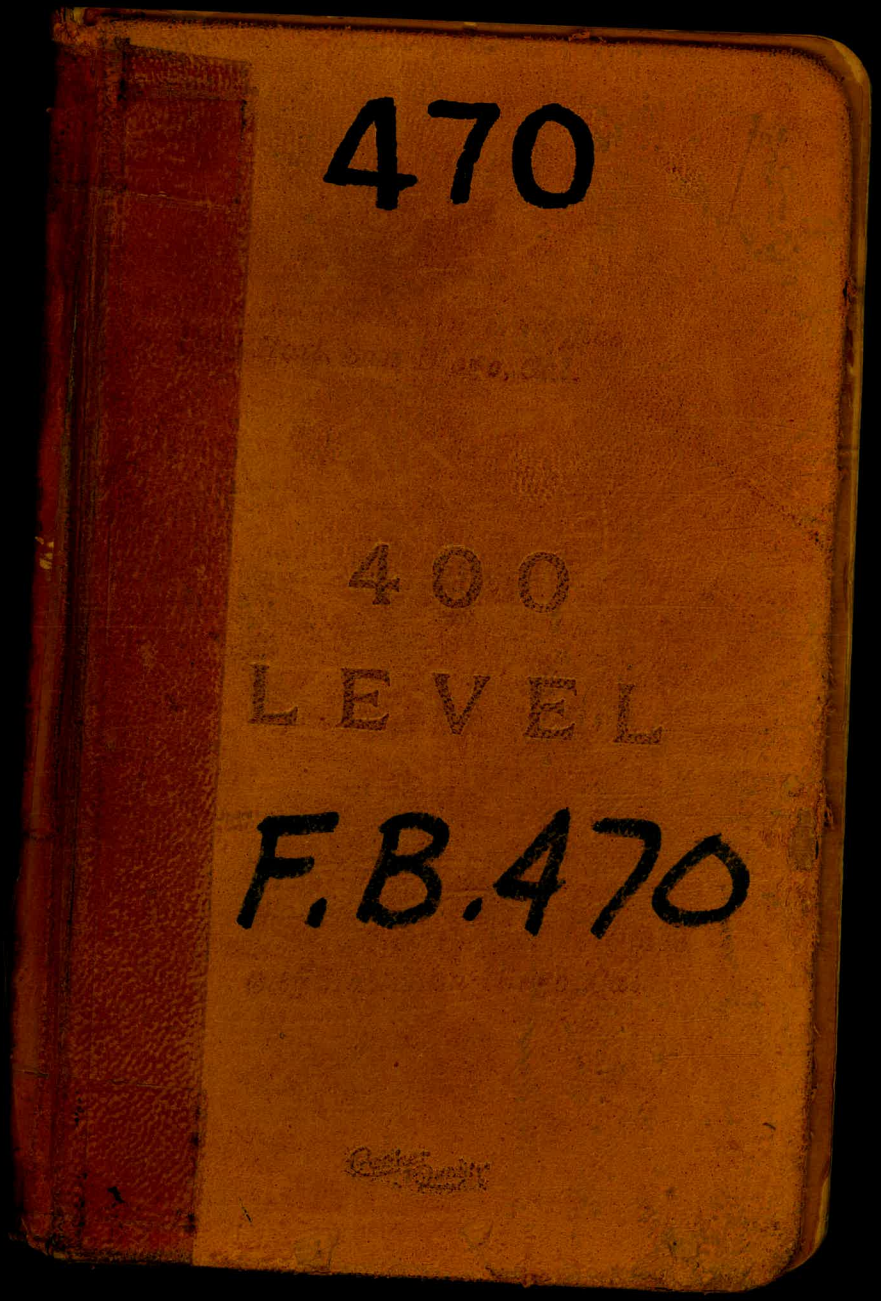
470
400
LEVEL
F.B.470

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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

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TABLE FOR RUNNING ON SLOPES.

In the following table the first column gives 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

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SAN FRANCISCO
and
SACRAMENTO

Talbert & Rosecrans st BM

Monument	NE box	21.32
S Pi Pole	NE	21.71

Clough
Dorman
Bodzers
3-28-10

Crossection of New Main St

Entire Length

	4.98	25.97		20.99	Old BM Rosecrans Ala PC
	W Line of Rosecrans				
SL			4.4	21.6	
bh			4.8	21.2	
y			4.7	21.3	
b			4.4	21.6	
y			4.7	21.3	
bh			4.6	21.4	
NL			4.8	21.2	
	50. W of Rosecrans				
NL			3.5	22.7	
bh			3.4	22.6	
y			3.7	22.3	
b			3.4	22.6	
y			3.8	22.2	
bh			3.5	22.5	
SL			3.0	23.00	

		2597		
	100	W of Rosecrans		
SL		2	2,4	23,6
bh			2,5	23,5
+3			3,0	23,0
4			2,3	23,7
b			1,9	24,1
4			2,4	23,6
+10			3,0	23,0
bh			2,2	23,8
NL			2,2	23,8
	150	W of Rosecrans		
NL			0,5	25,5
bh			0,8	25,2
+4			1,6	24,4
4			1,3	24,7
b			0,6	25,4
4			0,9	25,1
bh			1,0	25,0
+8			1,9	24,1
SL			0,9	24,1
TP	558	3091	0,64	25,33

		3091		New Main
	195'	W of Rosecrans		
SL			4,7	26,2
bh			4,5	26,4
+5'			5,8	25,1
4			4,4	26,5
b			4,3	26,6
4			4,8	26,1
+10			5,8	25,1
bh			4,7	26,2
NL			5,0	25,9
	195' W on ~~S~~ / 223,5 W " ~~N~~	= Pueblo Sm		
NL			4,3	26,6
bh			4,0	26,9
+5			5,1	25,8
4			4,5	26,4
b			4,0	26,9
4			4,3	26,6
+7'			5,7	25,2
bh			4,3	26,6
SL			4,7	26,2

(Rosecrans St is Graded + 100' wide here)

E Line of Rosecrans (100)

	1,95	22,94		20,99	Bm
Sd			3,7	19,2	
bb			3,7	19,2	
4			4,0	18,9	
b			4,2	18,7	
4			4,4	18,5	
bb			4,4	18,5	
nd			3,9	19,0	
	50'	E of Rosecrans st			
nd			4,3	18,6	
bb			4,5	18,4	
1/4 +,8'			6,3	16,6	
			5,0	17,9	
b			5,2	17,7	
4			5,0	17,9	
bb			5,7	17,2	
Sd			4,4	18,5	

2294 New Main st

	70'	E of Rosecrans st			
Sd			5,5	17,4	
bb			6,1	16,8	
4			5,9	17,0	
b			5,5	17,4	
4			5,5	17,4	
+5			6,7	16,2	
bb			4,6	18,3	
nd			6,2	16,7	
	100'	E of Rosecrans st			
nd			5,6	17,3	
bb			5,4	17,5	
+3'			7,2	15,7	
4			7,0	15,9	
+7'			7,2	15,7	
b			5,7	17,2	
4			6,0	16,9	
bb			6,6	16,3	
Sd			6,3	16,6	

2294

	125'	E of	Rosecrans St	
SL			6.8	16.1
bb			7.1	15-8
4			6.0	16.9
	+6'		7.4	15-3-
L			7.4	15-5-
	+8		7.5-	15-4
4			5-.2	17.7
bb			6.0	16.9
NL			6.2-	16.7

	150	E of	Rosecrans St	
NL			6.6	16.3
bb			6.6	16.3
4			6.2-	16.7
	+5'		7.6	15-3
L			7.8-	15-4
	+8'		7.8	15-1
4			6.2-	16.7
bb			7.7	15-2
SL			7.0	15-9

2294 New Mexico St 4

	200'	E of	Rosecrans St	
SL			8.5-	14.4
bb			7.6	15-3
4			9.2-	13.7
L			8.5-	14.4
4			7.4	15-5-
bb			7.3	15-6
NL			7.6	15-3

	250	E of	Rosecrans St	
NL			9.0	13.9
bb			8.9	14.0
4			8.6	14.3
L			8.2-	14.7
4			10.1	12-8
bl			9.3	13.6
SL			8.8	14.1

2294

300' E = W S of Scott st (70')

SL			10,6	12,3	
bb			10,4	12,5	
y			11,3	11,6	
b			9,8	13,1	
y			10,3	12,6	
bb			10,3	12,6	
NL			10,3	12,6	
TP	0,49	13,67	9,76	13,18	Stath

E Sin of Scott st

NL			2,8	10,9	
bb			3,0	10,7	
y			2,7	11,0	
b			3,0	10,7	
y			3,0	10,7	
bb			3,0	10,7	
SL			2,9	10,8	

13,67 New Main

50' E of Scott st

SL			4,4	9,3	
bb			4,0	9,7	
y			3,5	10,2	
b			4,1	9,6	
y			4,1	9,6	
bb			4,4	9,3	
NL			4,2	9,5	

100' E of Scott st

NL			5,5	8,2	
bb			5,7	8,0	
y			5,7	8,0	
b			5,4	8,3	
y			4,4	9,3	
bb			4,9	8,8	
SL			5,8	7,9	

13.67

	150'	E of	Scott	st
SL			6.4	7.3
bb			6.4	7.3
y			5.2	8.5
b			6.5	7.2
y			7.0	6.7
bb			7.0	6.7
NL			6.7	7.0
	200'	E of	Scott	st
NL			8.1	5.6
bb			8.1	5.6
y			7.8	5.9
b			7.3	6.4
y			6.2	7.5
bb			7.4	6.3
SL			7.6	6.1

13.67 New Mexico

	250	E of	Scott	st
SL			8.3	5.4
bb			8.1	5.6
y			7.4	6.3
b			8.6	5.1
y			8.9	4.8
bb			9.2	4.6
NL			9.0	4.7
TP	140	6.10	8.97	4.70
	300' E = WL & Skopter st (70')			
NL			2.5	3.6
bb			2.7	3.41
y			2.6	3.3
b			1.8	4.3
y			0.4	5.7
bb			2.1	4.0
SL			2.3	3.8

6.10

West of Shaft

SL	2,6	3,5-
bk	1,9	4,2
y	0,6	5,5-
b	1,7	4,4
y	2,5-	3,6
bk	2,8	3,3
NL	3,0	3,1

W 1/4 of Shaft

NL	3,2	2,9
bk	3,1	3,0
y	3,1	3,0
b	2,8	3,3
y	0,9	5,2
bk	2,5-	3,6
SL	3,0	3,1

6.10

Center of Shaft

SL	3,2	2,9
bk	2,6	3,5-
y	1,0	5,7
b	1,9	4,2
y	3,2	2,9
bk	3,3	2,8
NL	3,7	2,4

E 1/4 of Shaft at

NL	3,8	2,3
bk	3,7	2,4
y	3,4	2,7
b	2,3	3,8
y	1,4	4,7
bk	3,2	2,8
SL	3,5-	2,6

6.10

E bk of Shaft

SL	3,5	2,6
bk	3,1	3,0
y	1,7	4,4
l	3,0	3,1
y	4,0	2,1
bk	4,2	1,9
SL	4,1	2,0

E L of Shaft

SL	4,2	1,9
bk	4,5	1,6
y	4,0	2,1
l	2,6	3,5
y	1,9	4,2
bk	4,0	2,1
SL	4,6	1,5

6.10

New Mexico

8

50' E of Shaft

SL	5,6	0,5
bk	4,8	1,3
y	2,9	3,2
l	5,3	0,8
y	6,0	0,1
bk	5,6	0,5
SL	5,7	0,4

100' E of Shaft

SL	7,1	-1,0
bk	6,9	-0,8
y	7,0	-0,9
l	7,0	-0,9
y	3,4	2,7
bk	6,3	-0,2
SL	7,1	-1,0

610

	150'	E of Shafter st		
SL			8.4	-2.3
bb			7.2	-1.1
y			5.0	1.1
b			7.1	-1.0
y			7.8	-1.7
bb			8.0	-1.9
NL			7.9	-1.8
	200'	E of Shafter = Beach		
NL			9.5	-3.4
bb			9.8	-3.7
y			9.5	-3.4
b			9.7	-3.6
y			9.8	-3.7
bb			10.3	-4.2
SL			10.5	-4.4

Clough Crossection of Scott st (70') Scott st

9

Jonnar Rogers 328.10 Zinn S L Roseville through New Roseville

	429	1747	13.18	TP
	100'	N of New Main st = S L Roseville		
WL			5.5	12.0
bb			5.7	
y			5.8	
b			6.2	11.3
y			6.4	
bb			7.1	
EL			7.2	10.3
	50'	N of New Main st		
EL			6.2	11.3
bb			6.3	
y			6.2	
b			6.0	11.5
y			5.6	
bb			5.3	
WL			5.0	12.5

1747

N Lin of New Market (70)

W2		4.8	12.7
bb		5.3	12.2
4		5.6	11.9
6		5.9	11.6
4		6.1	11.4
bb		6.4	11.1
E2		6.5	11.0

N bb of New Market

W2		4.7	12.8
bb		5.1	12.4
4		5.6	11.9
6		6.0	11.5
4		6.5	11.0
bb		6.6	10.9
E2		7.0	10.5

1747

N ¼ of New Market

E2		7.0	10.5
bb		6.5	11.0
4		6.1	11.4
6		5.6	11.9
4		5.2	12.3
bb		5.0	12.5
W2		4.8	12.7

Center of New Market

W2		4.4	13.1
bb		5.2	12.3
4		4.7	12.8
6		5.0	12.5
4		5.5	12.0
bb		6.4	11.1
E2		6.7	10.8

1747

S ¼ of New Main

E2		6.6	10.9
bb		7.2	10.3
4		7.0	10.5
6		6.9	10.6
4		6.7	10.8
bb		5.9	11.7
W2		5.5	12.0

S bb of New Main

W2		4.8	12.7
bb		5.3	12.2
4		5.8	11.7
bb		6.2	11.3
4		6.4	11.1
bb		6.7	10.8
E2		6.8	10.7

1747

S2 New Main

E2		6.7	10.8
bb		6.5	12.0
4		6.0	12.5
6		5.5	12.0
4		5.3	12.2
bb		5.2	12.3
W2		5.1	12.4

50' S of New Main et

W2		5.1	12.4
bb		5.3	
4		5.6	
6		6.0	11.5
4		6.2	
bb		6.4	
E2		6.5	11.0

		1747			
	100'	S of	New Main		
EL			6.4	11.1	
bb			6.0		
y			5.8		
b			5.5	12.0	
y			5.3		
bb			4.4		
WL			4.1	13.4	
	150'	S of	New Main		
WL			4.7	12.8	
bb			4.8		
y			5.0		
b			5.2	12.3	
y			5.4		
bb			5.8		
EL			6.2	11.3	

		1747			
	200'	S = N L of Upshur St (70')			(1st St S)
EL			6.7	10.8	
bb			6.1		
y			5.7		
b			5.5	12.0	
y			5.3		
bb			5.5		
WL			5.5	12.0	
	N bb of Upshur St				
WL			5.6	11.9	
bb			5.5		
y			5.5		
b			5.7	11.8	
y			5.8		
bb			6.0		
EL			6.3	11.2	
TP	4.51	15.26	6.72	10.75	BM N E bn Upshur

1526

N¼ of Upshur

EL	4.2	11.1	
bb	4.1		
4	3.8		
b	3.6	11.7	
4	3.6		
bb	3.4		
WL	3.4	11.9	

Center of Upshur

WL	3.4	11.9	
bb	3.4		
4	3.5		
b	3.6	11.7	
4	3.8		
bb	4.1		
EL	4.4	10.9	

1526 Scott st

S¼ of Upshur

EL	4.6	10.7	
bb	4.3		
4	4.0		
b	3.8	11.5	
4	3.6		
bb	3.6		
WL	3.4	11.9	

S bb of Upshur

WL	3.6		
bb	3.8		
4	4.0		
b	4.0		
4	4.2		
bb	4.5		
EL	4.7		

15.26

S line of Upshur st

ES			4.7	10.6
bb			4.5	
y			4.3	
b			4.0	11.3
y			3.8	
bb			3.8	
WS			3.6	11.7

50' S of Upshur

WS			4.0	11.3
bb			4.0	
y			4.4	
b			4.6	10.7
y			4.6	
bb			5.1	
ES			5.4	9.9

15.26

Scott st

100' S of Upshur

ES			5.8	9.5
bb			5.6	
y			5.2	
b			5.1	10.2
y			4.8	
bb			4.9	
WS			4.6	10.7

150' S of Upshur st

WS			4.3	11.0
bb			4.7	
y			5.0	
b			5.4	9.9
y			5.6	
bb			6.0	
ES			6.0	9.3

15-21

200' S of N 2 of Talbert (70') 2nd S

E2	6.5	8.8	
bk	6.2		
4	6.0		
6	5.8	9.5	
4	5.5		
bk	5.0		
W2	4.6	10.7	

N bk of Talbert

W2	4.6		
bk	4.9		
4	5.4		
6	5.6		
4	5.9		
bk	6.1		
E2	6.5		

15-26

N 1/4 of Talbert St Scott St

E2	6.5	8.8	
bk	6.1		
4	6.0		
6	5.7	9.6	
4	5.4		
bk	5.1		
W2	4.8	10.5	

center of Talbert St.

W2	5.0	10.3	
bk	5.2		
4	5.4		
6	5.7	9.6	
4	6.0		
bk	6.5		
E2	6.4	8.9	

15-26

S 1/4 of Talbert st

E 2	6.4	8.9
bb	6.2	
4	6.0	
6	5.6	9.7
4	5.3	
bb	5.2	
W 2	4.9	10.4

S bb of Talbert

W 2	4.7	
bb	5.2	
4	5.3	
6	5.7	
4	6.1	
bb	6.5	
E 2	6.8	

15-26

S 1/4 of Talbert

Scott st

E 2	6.7	8.6
bb	6.5	
4	6.0	
6	5.4	9.5
4	5.6	
bb	5.2	
W 2	4.8	10.5

50' S of Talbert st

W 2	5.2	10.1
bb	5.4	
4	5.7	
6	6.0	9.3
4	6.4	
bb	6.4	
E 2	6.6	8.7

15.26

100' S = End of 1 New Roseville

EL			7.2	8.1
bb			6.9	
y			6.5	
b			6.2	9.1
y			5.8	
bb			5.7	
WL			5.1	10.2

Clough Brown Rodgers

Crossection of Talbert St (70') 17

Rosecrans'te Scott

3-2 8.10 W Line of Scott st (70')

NL		15.26	4.6	10.7
bb			4.6	
y			4.8	
b			5.0	10.3
y			5.0	
bb			4.8	
SL			4.8	10.5

50' W of Scott st.

SL			3.4	11.9
bb			3.4	
y			3.4	
b			3.2	12.1
y			3.0	
bb			3.1	
NL			3.1	12.2

1526

	100'	W of	Scott st	
N2			1,6	13.7
bb			1,5	
y			1,7	
b			1,9	13.4
y			1,7	
bb			2,1	
S2			1,9	13.4
TP	940	2321	1,45	13.81

	150'	W of	Scott st	
S2			7,9	15.3
bb			7,7	
y			7,9	
b			7,8	15.4
y			7,8	
bb			7,9	
N2			7,9	15.3

2321

	200'	W of	Scott st	
N2			6,0	17.2
bb			6,1	
y			6,0	
b			6,1	17.1
y			5,8	
bb			5,6	
S2			5,5	17.7

	250'	W of	Scott st	
S2			3,4	19.8
bb			3,6	
y			3,4	
b			3,6	19.6
y			3,6	
bb			3,3	
N2			4,0	19.2

2321

300' W = E L of Rosecrans (70) (Graded)

NL	1,5	21.7
bb	1,7	
y	2,0	
b	1,7	21.5
y	2,1	
bb	1,5	
SL	1,5	21.7

Continued on Page 24

Clough Inman Rogers 3-28-10

Crossection of Upshur st (70) Rosecrans to Scott st

W Line of Scott st

2321

SL	11.5	11.7
bb	11,5	
y	11.3	
b	11,3	11.9
y	11,4	
bb	11,3	
NL	11,2	12.0

50' W of Scott st

NL	9.9	13.3
bb	10,2	
y	10.3	
b	10,1	13.1
y	9.6	
bb	9,8	
SL	10,4	12.8

2321

100' W of Scott st

SL	9.6	13.6
bb	9.4	
4	9.2	
6	9.2	14.0
4	9.2	
bb	9.2	
NL	9.0	14.2

150' W of Scott st

NL	8.0	15.2
bb	8.0	
4	8.2	
6	8.1	15.1
4	8.0	
bb	8.3	
SL	8.7	14.5

2321

Upshur st

200' W of Scott st

SL	6.8	16.4
bb	6.7	
4	6.9	
6	6.8	16.4
4	7.0	
bb	6.9	
NL	7.0	16.2

250' W of Scott st

NL	4.8	18.4
bb	5.2	
4 +5'	6.3	
4	4.8	
6	5.1	18.1
4	5.7	
+3'	6.2	
bb	5.3	
SL	5.4	17.8

2321

300' W = E Sin of Rosecrans (70') (Graded)

SL			4.4	18.8
bb			4.6	
y			5.1	
b			4.8	18.4
y			5.0	
bb			4.6	
NL			4.4	18.8
TP	7.92	27.53	3.60	19.61

W Sin of Rosecrans st

NL			7.8	19.7
bb			7.9	
y			8.4	
b			8.3	19.2
y			8.2	
bb			8.0	
SL			7.9	19.6

2753

Upshur

1' Wf Rosecrans

SL			6.9	20.6
bb			7.0	
y			6.7	
b			6.6	20.9
y			6.9	
bb			7.0	
NL			6.7	20.8

50' of Rosecrans st

NL			5.7	21.8
bb			5.9	
y			5.6	
b			5.6	21.9
y			5.5	
bb			5.5	
SL			5.2	22.3

		27.53		
	100'	W of	Rosecrans St	
SL			3.8	23.7
bh			4.0	
y			4.2	
b			4.1	23.4
y			4.1	
bh			4.3	
NL			4.4	23.1
	114.6 W on S 143.5 W on N	} Pueblo Line		
NL			3.9	23.6
bh			3.7	
y			3.4	
b			3.2	24.3
y			3.4	
bh			3.8	
SL			3.4	24.1

Crossection of Shafter St (70')

From S line of Roseville to 100' S of New Main St

TP on Page 5

	0.29	13.47		13.18
	3.55	7.79	9.23	4.24
	100' N of New Main = S L of Roseville			
WL			5.6	2.2
bh			5.8	2.0
y			6.0	1.8
b			6.3	1.5
y			6.5	1.3
bh			6.8	1.0
EL			7.0	0.8
	50' N of New Main St			
EL			6.4	1.4
bh			6.1	1.7
y			5.6	2.2
b			5.1	2.7
y			5.1	2.7
			5.0	2.8
			4.7	3.1

PLOTTED

779

N Line of New Main St (70)

WR		4,2	3.6
bh		4,6	3.2
y		4,8	3.0
b		5-2	2.6
y		5-4	2.4
bh		5-8	2.0
EL		5-8	2.0

Intersection on Page 6

S Line of New Main St

EL		6,2	1.6
bh		5-7	2.1
y		5-2	2.6
b		4,9	2.9
y		4,7	3.1
bh		4,2	3.6
WR		4,0	3.8

PLOTTED

779

Shafter St

23

50' S of New Main St

WR		4,2	3.6
bh		4,4	3.4
y		4,8	3.0
b		5-2	2.6
y		5-5	2.3
bh		5,9	1.9
EL		6,2	1.6

160' S = End of Shafter St

EL		6,5	1.3
bh		6,2	1.6
y		5,8	2.0
b		5,5	2.3
y		5,0	2.8
bh		4,8	3.0
WR		4,7	3.1

PLOTTED

Crossection of Talbert St (70)
Continued from Page 17

	1.04	1179		10,75	# NE Cor Upshert + Scott
	East Line of Scott St				
NL			31	8.7	
bh			31		
y			30		
b			30	8.8	
y			30		
bh			33		
SL			33	8.5	
	50 E of Scott St				
SL			43	7.5	
bh			46		
y			43		
b			43	7.5	
y			42		
bh +9			53 42		
NL			42	7.6	

		1179			
	100 E of Scott St				
NL			55	6.3	
bh			55		
+3			69		
y					
y			54		
b			56	6.2	
y			56		
bh			57		
SL			57	6.1	
	150 E of Scott St				
SL			66	5.2	
bh			68		
y			66		
b			67	5.1	
y			66		
bh +9			77 64		
NL			63	5.5	

200' E of Scott st			
N2		7.4	4.4
bl		7.3	
4		7.3	
b +2'		8.7	
		8.0	3.8
4		8.0	
bl		8.3	
S2		8.3	3.5
225' E of Scott st			
S2		11.8	0.0
bl		11.4	
+7'		11.6	
4		8.8	
b		9.3	2.5
4		8.4	
bl		7.9	
N2		8.3	3.5

250' E of Scott st			
N2		8.2	3.6
bl		{8.3 / 13.3}	
4		14.2	
b		14.7	-2.9
4		15.9	
bl		15.9	
S2		15.9	-4.1
260 E of Scott - Beach			
N2		13.8	-2.0

Xsec of Robinson St (60) from
W S of Albatross W
(16' Cbs + Cbs + Side walks are in 200)

	284	269.90	267.06	Bm NE Rob + Albatross
	W S of Albatross			
S		4.5		265.4
bl		(4.8 / 4.7) inch		265.6 / 265.2
1/4		4.3		265.6
C		4.1		265.8
1/4		4.2		265.7
bl		(4.3 / 3.6) inch		265.6 / 266.3
n		3.4		266.5
	50' W of Albatross			
n		4.2		265.7
bl		(4.4 / 5.1)		265.5 / 264.8
1/4		4.9		265.0
b		4.8		265.1
1/4		4.9		265.0
bl		(5.5 / 5.0)		264.4 / 264.9
S		5.1		264.8

269.90 Robinson

26

	100' W of Albatross			
S		5.5		264.4
bl		(5.3 / 5.8)		264.6 / 264.1
1/4		5.4		264.5
b		5.3		264.6
1/4		5.4		264.5
bl		(5.7 / 5.1)		264.2 / 264.8
n		4.7		265.2
	130' W = E S of Idlewild (30') on S side			
n		5.3		264.6
bl		(5.4 / 6.2)		264.5 / 263.7
n		5.9		264.0
b		5.8		264.1
1/4		6.0		263.9
bl		(6.4 / 6.1)		263.5 / 263.8
S		5.9		264.0

Robinson

		269.90			
	Center of Idlewild				
S			6.2		263.7
bh			6.2		263.7
+2'			6.7		263.2
1/4			6.3		263.6
b			6.0		263.9
1/4			6.2		263.7
bh			(6.3 / 5.8)		263.6 / 264.1
n			5.6		264.3
	W Sin of Idlewild				
n			5.8		264.1
bh			(5.8 / 6.5)		264.1 / 263.4
1/4			6.3		263.6
b			6.2		263.7
1/4			6.5		263.4
+6'			6.9		263.0
bh			6.4		263.5
S			6.6		263.3
TP	4.19	267.72	6.37	263.53	

		267.72			
	50' W of Idlewild				
S			5.2		262.5
bh			(5.0 / 5.6) (not cement)		262.7 / 262.1
1/4			5.0		262.7
b			4.6		263.1
1/4			4.9		262.8
bh			(5.1 / 4.3)		262.6 / 263.4
n			4.3		263.4
n ab	85' W of Idlewild		4.65	End of cement curb	263.07
	100' W of Idlewild				
n			4.8		262.9
bh			5.2		262.5
+2			5.2		262.5
1/4			5.4		262.3
b			5.2		262.5
1/4			5.6		262.1
bh			(6.0 / 5.6)		261.7 / 262.1
S			5.9		261.8

267.72

150' w of Idlewild

S	65	261.2	
+14	6.0	261.7	
bk	6.7	261.0	
1/4	6.3	261.4	
b	6.0	261.7	
1/4	6.1	261.6	
+5'	6.1	261.6	
bk	5.3	262.4	
n	5.2	262.5	

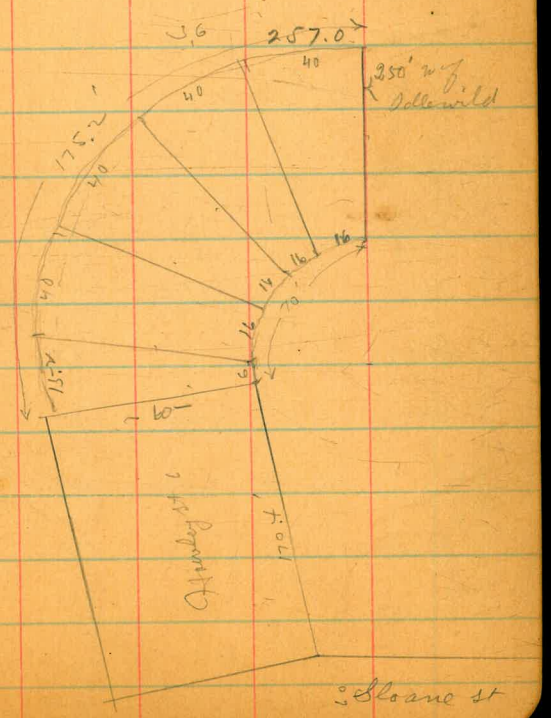
200' w of Idlewild

n	6.5	261.2	
bl	6.9	260.8	
+2'	7.6	260.1	
1/4	7.6	260.1	
b	7.6	260.1	
1/4	8.0	259.1	
bl	(8.8 / 8.1)	258.9 / 259.6	
S	8.1	259.6	
TP	140	L 60 55	857 25.915

260.55

250' w of Idlewild = Hawley St (65)

S	6.4	254.2
bl	5.3	255.3
1/4	4.9	255.7
b	4.7	255.9
1/4	4.6	256.0
bl	3.9	256.7
n	3.6	257.0



		26055			
40' W on n 16' W on S } of End of Robinson					
n			9.5		251.1
bl			10.0		250.6
1/4			9.7		250.9
b			9.7		250.9
1/4			9.5		251.1
bl			10.1		250.5
S			9.8		250.8
40' W on n L 16' " " S L =					
S			12.8		247.8
+8'		/	13.5	/	247.1
TP	0.06	247.73	12.88	247.67	
bl			1.9		245.8
1/4			2.4		245.3
b			2.7		245.0
1/4			3.3		244.4
bl			4.5		243.2
n			5.6		242.1

		247.73			Hawley
40' W on n 16' W on S =					
n			12.5		235.2
bl			11.1		236.6
1/4			9.0		238.7
b			7.6		240.1
1/4			7.1		240.6
bl			6.4		241.3
+2'			4.6		243.1
S			3.5		244.2
40' W on n 16' " " S } =					
S			6.0		241.7
bl			8.5		239.2
+2'			10.0		237.7
1/4			10.8		236.9
b			11.7		236.0
1/4			13.2		234.5
TP	5.35	240.43 ✓	12.65	235.08	
bl			8.7		231.7
n			10.5		229.9

240.43

15.2' W on N } = End of Curve = 1704 N of Sloane
6.0' " " S }

N = W			11.9	228.5
bl			10.3	230.1
1/4			7.3	233.1
C			5.6	234.8
1/4			4.8	235.6
+5			3.9	236.5
bl			1.4	239.0
S = E			+0.4	240.8

25' S of End of Curve

E			2.8	237.6
bl			4.6	235.8
+7			6.0	234.4
+8'			8.3	232.1
1/4			8.5	231.9
C			8.9	231.5
1/4			10.4	230.0
+7			12.7	227.7
bl			12.9	227.5
W			14.8	225.6

240.43 Howley st

50' S of End of Curve

E			5.2		235.2
bl			7.8		232.6
+5			9.3		231.1
+7			11.4		229.0
1/4			11.9		228.5
C			11.9		228.5
1/4			12.9		227.5
+3			13.3		
TP	336	231.09	12.70	227.73	
bl			6.7		224.4
W			8.5		222.6

75' S of End of Curve

W			12.0		219.1
bl			9.8		221.3
1/4			5.9		225.2
bl			4.6		226.5
1/4			4.6		226.5
+4'			4.3		226.8
+6'			2.2		228.9
bl			1.4		229.7
E			+0.6		231.7

23109

100' S of End of Curve

E			0,0	231.1
bl			1,8	229.3
+3'			3,5	227.6
+1'			6,1	225.0
1/4			6,2	224.9
c			6,5	224.6
1/4			7,3	223.8
bl			10,9	220.2
W			12,9	218.2

125' S of End of Curve

W			13,2	217.9
bl			11.1	220.0
1/4			8,6	222.5
c			8,0	223.1
1/4			7,5	223.6
+6			7,2	223.9
+8			4,2	226.9
bl			3,7	227.4
E			2,4	228.7

23109 Hawley

150' S of End of Curve

E			4,1	227.0
bl			6,2	224.9
+3			6,8	224.3
+5			9,5	221.6
1/4			9,6	221.5
c			9,9	221.2
1/4			10,4	220.7
bl			11,8	219.3
W			13,8	217.3

170,4' S of End of Curve = N S of Sloane (60)

W			14,4	216.7
bl			12,7	218.4
1/4			12,0	219.1
c			11,6	219.5
1/4			11,3	219.8
+5'			11,5	219.6
+7'			8,7	222.4
bl			8,6	222.5
+6'			7,5	223.6
E			6,0	225.1

231.09

N bk of Sloane st

E			8.6	N11.5
bk			9.6	221.5
			10.1	N11.0
			11.2	N18.9
1/4			12.2	N18.9
b			12.7	218.4
TP	1.43	220.09	12.43	N18.66
1/4			2.8	N17.3
bk			3.8	216.5
W			4.1	N16.0

N 1/4 of Sloane st

W			4.5	N15.6
bk			3.3	216.8
4			2.4	N17.1
b			2.6	217.5
4			2.2	N17.9
bk			1.1	219.0
E			+0.4	N20.5

220.09

Hawley st

Center of Sloane

E			0.0	N20.1
bk			1.6	218.5
1/4			3.5	N16.6
b			3.5	216.6
			4.0	N15.7
1/4			3.4	N16.7
bk			4.2	215.9
W			5.1	215.0

S 1/4 of Sloane st

W			6.0	N14.1
bk			5.2	214.9
1/4			4.8	N15.3
b			4.7	215.4
1/4			4.7	N15.4
bk			3.2	216.9
E			1.0	N19.1

220.09

S bb of Sloane st

E			1.1		219.0
bb			3.5		216.6
+4'			5.5		214.6
1/4			5.8		214.3
C			5.9		214.2
1/4			6.1		214.0
bb			6.2		213.9
W			7.0		213.1

S Line of Sloane st

W			8.5		211.6
bb			7.8		212.3
1/4			7.0		213.1
C			6.8		213.3
1/4			6.7		213.4
+6'			7.0		213.1
+8'			4.8		215.3
bb			4.4		215.7
E			2.0		218.1

220.09

25' S of Sloane st

E			4.5		215.6
+3'			4.5		215.6
bb			6.7		213.4
+1'			7.0		213.1
+3'			9.1		211.0
1/4			8.9		211.2
C			9.1		211.0
1/4			9.3		211.8
+2'			11.2		208.9
bb			11.8		208.3
W			11.0		209.1

50' S of Sloane st

E			7.0		213.1
+4'			6.9		213.2
bb			8.4		211.7
+2'			9.0		211.1
+3'			11.1		209.0
1/4			11.0		209.1
C			11.4		208.7
+5			11.3		208.8
TP	232	210.33	12.08		208.01
1/4			3.9		206.4
bb			7.4		202.9
W			6.8		203.5

210.33

75' S of Sloane st

W		11,2	199.1
bl		9,8	200.5
	+5	8,3	202.0
1/4		5,2	205.1
	+3'	4,2	206.1
b		3,9	206.4
1/4		3,5	206.8
	+7'	3,4	206.9
	+8'	1,1	209.2
bl		0,8	209.5
	+6'	+0,3	210.6
E		0,0	210.3

91.5' S = Market st on West

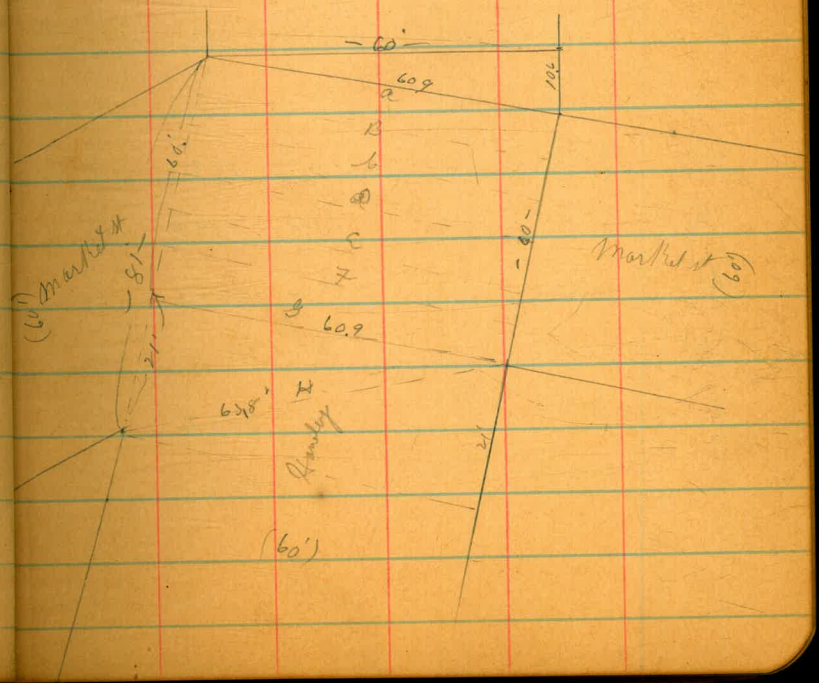
E		1,1	209.2
bl		2,5	207.8
	+2'	3,0	207.3
	+3'	4,3	206.0
1/4		5,0	205.3
b		5,9	204.4
		6,4	203.9
1/4		7,1	203.2
bl		10,7	199.6
W		12,6	197.7

210.33

Hawley st

(60.9' long) 101.6 S on E / 91.0 S on W = n Line of Market st (60)

W		12,6	197.7
bl		10,9	199.4
1/4		7,8	202.5
b		6,8	203.5
1/4		5,6	204.7
	+7'	5,4	204.9
	+9'	3,9	206.4
bl		3,8	206.5
			2 ft market
E		2,64	207,69



(B) (60.9) N Cl of Market (See Page 34)

E	4,3	206.0
M	5,9	204.4
1/4	6,7	203.6
C	8,0	202.3
1/4	8,8	201.5
M	11,8	198.5
W	13,6	196.7

(C) N 1/4 of Market St

N	14,2	196.1
M	12,0	198.3
1/4	10,1	199.9
C	9,2	201.1
1/4	8,1	202.2
M	6,7	203.6
E	6,1	204.2

(D) Center of Market St

E	7,1	203.2
M	7,9	202.4
1/4	9,0	201.3
C	10,5	199.8
1/4	11,7	198.6
M	12,8	197.5
W	14,4	195.9

(E) S 1/4 of Market St

W	15,2	195.1
M	14,5	195.8
1/4	12,8	197.5
C	12,3	198.0
1/4	10,5	199.8
M	9,8	200.5
E	9,4	200.9

(7) S bk of Market N

E		12.7	197.6
bk		11.8	198.5
y4		12.2	198.1
TP	1.29	199.00	12.62	197.71
b		2.3	196.7
y4		2.3	196.7
bk		3.7	195.3
W		5.3	193.7

(8) S Sin of Market on E Sin

N	6.0	193.0
bk	4.7	194.3
y4	4.6	194.4
b	4.3	194.7
y4	3.8	195.2
bk	3.3	195.7
E	3.8	195.2

(11) (638) 21'5 on W Sin = S Sin of Market

E		3.8	195.2
bk		3.9	195.1
y4		5.0	194.0
b		6.7	192.3
y4		7.2	191.8
bk		7.4	191.6
W		8.4	190.6
	0.10	197.81	1.29	197.71	TP

S Sy Market on W 21'5 on E

E2	9.5	188.3
bk	9.1	188.7
y4	7.6	190.2
b	7.4	190.4
y4	7.5	190.3
bk	7.5	190.3
W2	7.2	190.6

19781

25' S of Market or W

W			12.7	185.1
bl			12.6	185.2
1/4	+6		12.6	185.2
		✓	13.0	187.8
TP	0.90	185.80	12.91	184.90
b			2.6	183.2
1/4			3.8	182.0
bl			5.3	180.5
E			6.5	179.3

50 S of Market

E			8.0	177.8
bl			8.1	177.7
1/4			8.9	176.9
b	+7'		9.2	176.6
			3.4	182.4
1/4			2.9	182.9
bl	+6'		2.9	182.9
			3.7	182.1
W			6.7	179.1

18580

63 S of Market

W	+6'		9.7	176.1
			4.3	181.5
u			3.8	182.0
1/4			3.7	182.1
	7 4'		4.0	181.8
b	+2'		8.6	177.2
			9.7	176.1
1/4			9.6	176.2
u	+5'		8.8	177.0
			8.4	177.4
E			8.5	176.3

75' S of Market st

E			4.7	181.1
bl			7.8	178.0
1/4	+7'		9.9	175.9
			12.9	172.9
b	+6'		9.2	176.6
			4.4	181.4
1/4			4.8	181.8
u	+3'		4.2	181.6
			4.6	181.2
W			11.1	174.7

185.80

100' S of Market st

W			12.4	173.4
+8'			4.8	181.0
bh			4.8	181.0
y4			4.3	181.5
b			4.2	181.6
1/4			2.5	183.3
+6			1.4	184.4

110' S of Market st

W			12.4	173.4
+9'			4.6	181.2
bh			4.6	181.2
y4			4.1	181.7
b			3.7	182.1
+2'			3.6	182.2
+4'			2.4	183.4
1/4			1.8	184.0
+5'			0.2	185.6

185.80 S Hawley st

125' S of Market st

W			8.0	177.8
bh			4.4	181.4
+3'			3.2	182.6
y			3.3	182.5
b			3.2	182.6
+4'			3.2	182.6
+5			1.4	184.4

150' S of Market st

W			8.6	177.2
bh			5.0	180.8
+3'			3.0	182.8
y			2.7	183.1
b			2.4	183.4
+5			2.4	183.4

175' S of Market st

W			10.5	175.3
bh			7.4	178.4
+8'			2.6	183.2
y			2.2	183.6
b			2.0	183.8
+8'			2.0	183.8

		188.80		
	200'	S of	Market st	
W			11.3	174.5
bh			6.9	178.9
1/4			1.5	184.3
b			1.5	184.3
1/4			1.4	184.4
+1			1.4	
	225'	S of	Market st	
W			13.9	171.9
bh			8.8	177.0
1/4			0.6	185.2
b			1.1	184.7
1/4			1.0	184.8
+3			1.0	184.8
	254.5'	S = End of Idlewild addition		
W			15.9	169.9
bh			10.8	175.0
1/4			3.7	182.1
+4'			1.0	184.8
b			1.2	184.6
1/4			1.6	184.2
TP	12.71	198.51	0.0	188.80

		198.51		Hawley
	100'	S of	Market	
E			8.4	190.1
bh			10.9	187.6
	110'	S of	Market	
E			6.2	192.3
bh			9.1	189.4
	125'	S of	Market st	
E			4.2	194.3
bh			6.7	191.8
+2			7.2	191.3
+6			12.0	186.5
4			13.0	185.5
	150'	S of	Market	
E			2.8	195.7
bh			5.2	193.3
+5			9.2	189.3
4			10.6	187.9
+4'			11.8	186.7

198.57

175' S of Market

E		2.6	195.9
bb		5.6	192.9
+5		10.5	
4		11.5	187.0

200' S of Market

E		2.0	196.5
bb		4.7	193.8
+4'		11.0	187.5
+8'		12.0	186.5

225' S of Market

E		3.0	195.5
+8'		4.3	194.2
bb		7.8	190.7
+2'		10.3	188.2
+6'		11.6	186.9

254.5 S = End of Tollenwild

E		6.8	191.7
+8'		8.0	190.5
+9'		11.8	186.7
bb		12.0	186.5
+1'		13.4	185.1
+4'		13.5	185.0
+5		14.5	184.0

Plotted E.L.B.

Note reductions
Completed and checked June 23-1914
SWS.

X dec of Market St (60)
W 2 of Hawley to P.L. on W

	0.28	197.99	197.71
(81')	W 2 of Hawley	See Page 34	
N		0.3	197.7
Mk		1.4	
4		1.8	
L		2.0	196.0
4		2.7	
Mk		4.3	
S 2 of S 2		4.6	193.4
S 2 of W 2		7.4	190.6

197.99 Market

53.5' W on N line of W 2 of Hawley on S

N 2		7.7	190.8
Mk		8.0	
4		7.5	
L		7.1	190.9
4		7.3	
Mk		7.0	
S		7.4	190.6
	25 W of Hawley on S 2		
S		11.0	187.0
Mk		10.5	
4		10.9	
L		11.3	186.7
4		11.9	
Mk		11.6	
N		11.2	186.8
TP	0.89	185.91 ✓	12.97 185.02 ✓

1859

50' W of Hawley

N	2,3	183.6
bk	3,3	
y	3,3	
b	2,5	183.4
y	2,4	
bk	1,8	
S	3,0	182.9

75' W of Hawley

S	5-9	180.0
bk	6,9	
y	6,3	
l	6,4	179.5
y	7,0	
bk	8,0	
N	8,0	177.9

1859

Market St

100' W of Hawley

N	12,5	173.4
bk	12,4	
y	12,4	
l	12,3	173.6
y	12,0	
bk	12,0	
S	12,0	173.9
TP	1,18	1743 — 12.94 — 172.97

125' W of Hawley

S	6,2	168.0
bk	6,4	
y	6,3	
l	6,6	167.6
y	6,8	
bk	6,2	
N	6,3	167.9

		174.15		
	150	W of	Hawley	
n			7,6	166.6
bb			7,5	
y			7,7	
b			7,8	166.4
y			8,2	
bb			8,3	
S			8,5	165.7
	153	W of	Hawley	
n			8,4	165.8
bb			7,7	
y			7,8	
b			8,0	166.2

		174.15		Market
	166.9	W = PS on N side		
n			6,8	167.4
bb			7,8	
y			8,1	
b			8,1	166.1
y			10,6	
bb			9,3	
S			9,3	164.9
	166.9 W on N 193.4 W on S	=		
S			8,3	165.9
bb			8,1	
y			8,2	
b			8,2	166.0
y			8,0	
bb			7,5	
n			6,8	167.4

174.15

220.4 W on S } = Rubble Line
166.9 W on N }

n		6.8	167.4
bh		6.3	
y		6.3	
b		5.7	168.5
y		5.1	
bl		4.0	
S		3.2	171.0

X Sec of Market St (60')

E S of Hawley to W S of Idlewild St

BM

11.78 209.49 197.71

E S of Hawley

S		14.3	195.2
bh		11.9	
y		8.6	
b		6.3	203.2
y		5.2	
bl		3.5	
n		1.8	207.6

25' E of Hawley

n		1.0	208.5
bh		3.7	
y		5.3	
b		6.8	202.7
y		8.0	
bl		12.0	
S		15.6	193.9

209.49

50' E of Hawley st

S	16,3	193.2
bk	12,7	
y	9,5	
b	5,8	203.7
y	4,6	
bk	0,9	
~		

75' E of Hawley

S	15,5	194.0
bk	11,5	
y +7'	8,8 5,5	
b +7'	5,4 5,2	204.1
y	2,7	
bk	10,2	209.7

209.49

Market st

100' E of Hawley

S	16,0	193.5
bk	12,2	
y +4'	9,0 6,5	
b +4' +8'	6,6 5,9	202.9
y	2,7 1,6	

125' E of Hawley

S	16,8	192.7
bk	12,5	
y +2'	8,6 7,7	
b +5'	7,5 3,7	202.0
y	1,3	

150' E of Hawley st

S	15,7	193.8
bk +6'	12,0 8,7	
y +9'	8,3 8,0	
b +7'	5,8 3,5	203.7

		209.49			
	173.1	E =	W L of	~~Tollemiller~~ sheldon	St on S L
S L			14.5	195.0	
bh			9.8		
y +3'			9.1 8.3		
b			3.0	206.5	
	173.1' 209.6	E on S E a n } =			
S			14.5	195.0	
bh			9.6		
y +5'			8.8 5.0		
b			3.0	206.5	
	173.1 230'	E on S E a n }	W L Tollemiller st		
S			14.5	195.0	
bh +10			9.5 8.7		
y			6.0		
b			2.8	206.7	
T.P	10.50	✓ 218.19	1.80	✓ 207.69	n C H market & Hawley

		218.19			Market St
	50'	E of	Hawley		
W L			7.5	210.7	
	75'	E of	Hawley		
W L			5.8	212.4	
	100'	E of	Hawley		
n			4.0	214.2	
bh			7.0		
	125'	E of	Hawley		
n			2.5	215.7	
bh			5.9		
	150'	E of	Hawley		
n			0.8	217.4	
bh			4.6		
y			9.2		
	173.1	E of	Hawley		
n			+0.2	218.4	
bh			3.3		
y			7.7		

		218.9			
	173.1' E on S 201.6' E on n				
n L			10.6	218.8	
bl			4.1		
y			8.5		
TP	4.75	220.07	2.87	215.32	
	173.1 E on S 230' E on n		W L of Idlewild st		
n			2.63	217.44	Bm NWH market Idlewild
bl			6.5		
y			9.9		

X Sec of Sloane St (60')

E Lin of Hawley to W L Idlewild st

	12.15	230.81		218.66	TP
(60.9')	E Lin of Hawley				
n			5.7	225.1	
bl			8.3		
+3'			9.0		
+4'			10.1		
y			10.3		
b			10.9	219.9	
y			11.7		
bl			11.8		
S			12.7	218.1	
	E L Hawley on S 109' E on n		= 248.1 W of Idlewild		
S			12.7	218.1	
bl			11.8		
y			11.0		
b			10.0	220.8	
y			9.4		
+5'			8.8		
+6			7.9		
bl			7.3		
			6.3		
n			4.3	226.5	

230.81

225' W of Idlewild

n			1,8	229.0
+2			2,8	
bh			3,9	
+3'			4,1	
+6			5,5	
y			5,8	
b			6,2	224.6
y			6,8	
bh			8,4	
S			9,6	221.2

200' W of Idlewild

S			6,6	224.2
bh			4,8	
y			3,2	
b			2,0	228.8
y			1,3	
+5			1,2	
~~HP~~	12,76	24357	0.0	230.81
+7			12,5	
bh			12,1	
n			11,0	232.6

24357

Sloane

175' W of Idlewild

n			6,7	236.9
bh			8,0	
+4			8,6	
+5'			9,1	
y			10,2	
			9,6	
b			10,8	232.8
y			12,0	
bh			14,2	
S			15,7	227.9

150' W of Idlewild

S			12,2	231.4
bh			10,5	
y			8,1	
b			7,3	236.3
y			6,5	
bh			4,4	
n			2,8	240.8

		243.57		
	125'	w of	Idlewild	
n			+0.4	244.00
bh			0.5	
+4' +7'			1.1	
			3.0	
y			3.3	
b			4.3	239.3
y			5.4	
bh			7.3	
S			9.5	234.1
	100'	w of	Idlewild	
S			7.3	236.3
bh			5.7	
y			2.9	
b			1.8	241.8
y			1.0	
bh	75'	w of	Idlewild	
S			4.9	238.7
bh			2.9	
y			0.5	
TP	12.73	255.80	0.50	243.07

		255.80		Sloane st
	100'	w of	Idle wild	
n			8.8	247.0
bh			11.0	
+4' +6'			11.4	
			12.4	
	75'	w of	Idlewild	
n			5.3	250.5
bh			7.6	
+4 +5			8.2	
			9.6	
y			10.2	
b			10.2	245.6
	50'	w of	Idlewild	
n			1.9	253.9
bh			4.0	
+4' +6'			4.7	
			5.9	
y			6.7	
b			8.0	247.8
y			9.4	
bh			11.9	
S			13.9	241.9

		255.80		
	25'	w of	Idlewild	
S			8.7	247.1
bh			7.0	
y			5.3	
b			3.6	252.2
y			2.1	
bh			0.3	
TP	8.30	261.71	2.39	253.41
n			5.0	256.7
	15'	w = W Line of Idlewild on n (30')		
n			4.6	257.1
bh			5.8	
y			6.8	
b			7.9	253.8
y			9.2	
bh			11.0	
S			13.2	248.5

		261.71		Sloane st
	00 = Center of Idlewild + W S of alley on S			
S			11.3	250.4
bh			9.3	
y			7.8	
b			6.4	255.3
y			5.4	
bh			4.6	
n			3.9	257.8
	15' E of Center = E S of Idlewild			
n			3.0	258.7
bh			3.7	
y			4.2	
b			5.0	256.7
y			6.0	
bh			7.5	
S			10.3	251.4

X Sec of Idlewild st (30)
S S of Robinson to N S Sloane
261.71
N S of Sloane = 215' S of Robinson

W			4,5	257.2
C			3,9	257.8
E			3,0	258.7
	200'	S of	Robinson	
E			2,4	259.3
C			3,2	258.5
W			3,5	258.2
	175'	S of	Robinson	
W			2,5	259.5
C			2,1	259.6
E			1,9	259.8
	150	S of	Robinson	
E			0,8	260.9
C			1,0	260.7
W			1,3	260.4
TP	7,66	268,06	1,31	260,40

268.06 Idlewild

	125'	S of	Robinson	
W			6,9	261.2
C			6,6	261.5
E			6,6	261.5
	100'	S of	Robinson	
E			5,5	262.6
C			5,9	262.2
W			6,0	262.1
	75'	S of	Robinson	
W			5,4	262.7
C			5,4	262.7
E			5,1	263.0
	50	S of	Robinson	
E			4,8	263.3
C			5,1	263.0
W			5,1	263.0

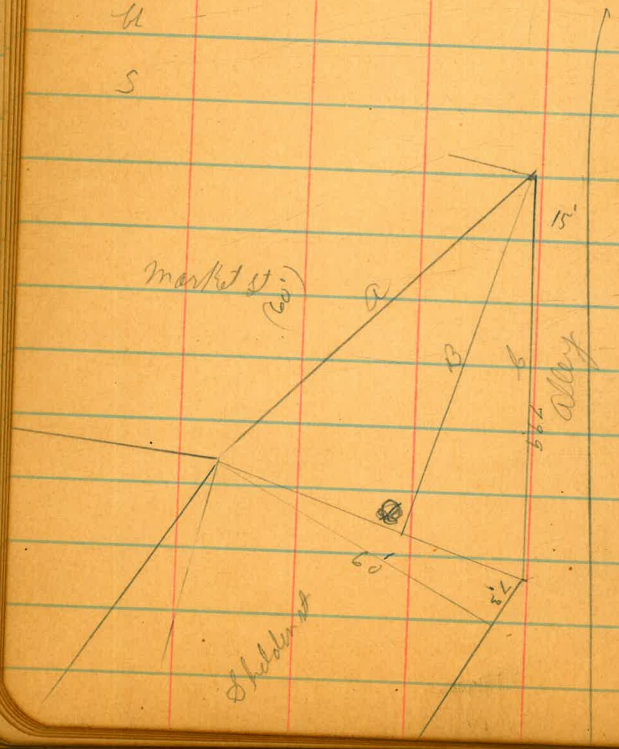
268.06

25' S of Robinson

w			4,8	263.3
b			4,6	263.5
E			4,2	263.9
	S Sin of		Robinson	
E			4,0	264.1
b			4,3	263.8
w			4,7	263.4
			45.1	263.5 ✓

X Sec of Sheldon St (60') (all of it)

	0,13	217.87	217.44	Bm
(a)	E End of Market St			
n			0,4	217.5 ✓
bl			4,2	213.7 ✓
y			7,7	210.2 ✓
l			11,4	206.5 ✓
y				
bl				
S				



		217.87		
Sin (B)				
n			0,4	217.5 ✓
bl			5,0	212.9 ✓
y			9,3	208.6 ✓
l			13,0	204.9 ✓
Sin (C)				
n			0,4	217.5 ✓
bl			5,9	212.0 ✓
y			9,9	208.0 ✓
l			14,2	203.7 ✓
TP	0,07	205.14 ✓	12,80	205.07
Sin C				
S			4,4	200.7 ✓
bl			7,1	198.0 ✓
y			8,7	196.4 ✓
			8,7	196.4 ✓
			5,3	199.8 ✓

Line (B)

S	6,3	198.8 ✓
bh	6,4	198.7 ✓
y	2,6	202.5 ✓

Line C

S	10,0	195.1 ✓
+10'	5,7	199.4 ✓
bh	5,0	200.1 ✓
+11'	4,6	200.5 ✓
y	2,5	202.6 ✓
+1	1,8	203.3 ✓

Line (D) S Line of Market St

w	10,0	195.1 ✓
bh	9,8	195.3 ✓
y	9,7	195.4 ✓
	7,2	197.9 ✓
b	6,3	198.8 ✓
y	6,9	198.2 ✓
+5'	8,5	196.6 ✓
bh	7,3	197.8 ✓
E	4,3	200.8 ✓

(60) S Line of Market on S } 00
7,3' S of " " n }

E		
bh	5,3	199.8 ✓
+4'	7,1	198.0 ✓
y	6,6	198.5 ✓
b	6,3	198.8 ✓
y	8,2	196.9 ✓
bh	10,5	194.6 ✓
W	10,0	195.1 ✓

14' S of Market St

w	14,2	190.9 ✓
bh	13,0	192.1 ✓
+8	11,8	193.3 ✓
y	10,5	194.6 ✓
+7	6,2	198.9 ✓
b	5,4	199.7 ✓

21' S of Market

E	+0,2	205.3 ✓
bh	1,0	204.1 ✓
y	3,1	202.0 ✓
b	4,5	200.7 ✓

20514

25' S of Market

w			13,8	191.3 ✓
bl			11,5	193.6 ✓
y			8,3	196.8 ✓
+7'			4,0	201.1 ✓
b			4,0	201.1 ✓

50' S of Market

w			8,7	196.4 ✓
bl			5,5	198.6 ✓
y			2,2	202.9 ✓
+3'			1,0	204.1 ✓
b			0,9	204.2 ✓
T.P	11,04	✓ 215.91	0,27	✓ 204.87

75' S of Market

w			15,0	200.9 ✓
bl			11,7	204.2 ✓
y			8,0	207.9 ✓
+9'			8,8	207.1 ✓
b			10,0	205.9 ✓

21591 Sheldon

100' S of Market

w			14,8	201.1 ✓
bl			10,5	205.4 ✓
y			6,1	209.8 ✓
b			5,6	210.3 ✓

125' S of Market

w			17,9	198.0 ✓
bl			13,0	202.9 ✓
y			7,5	208.4 ✓
+5'			4,4	211.5 ✓
b			3,8	212.1 ✓

153.8 S of Market = N & Penn and E

w			6,6	209.3 ✓
bl			6,3	209.6 ✓
y			5,1	210.8 ✓
+8'			0,8	215.1 ✓
b			0,7	215.2 ✓

7.3' S of Market and E = 0.0

EL			9,9	206.0 ✓

215.91

	25'	S of	Market		
E			6.7	209.2	✓
bl			10.1	205.8	✓
y			14.7	201.2	✓
	50'	S of	Market		
E					
E bl			2.8	213.1	✓
E 1/4			6.3	209.6	✓
+2'			7.5	208.4	✓
+3'			9.9	206.0	✓
+7'			12.0	203.9	✓
	75'	S of	Market		
E 1/4			1.0	214.9	✓
+4'			2.6	213.3	✓
+5'			7.0	208.9	✓
+9'			8.4	207.5	✓
TP	80.3	223.94	0.0	215.91	TP
	50'	S of	Market		
E			7.3	216.6	
	75'	S of	Market		
E			2.7	221.2	
bl			6.2	217.7	

223.94 Sheldon

57

	100'	S of	Market		
E			1.4	222.5	
bl			4.6	219.3	
y			7.2	216.7	
+4'			8.1	215.8	
+6'			13.4	210.5	
	125'	S of	Market		
E			1.5	223.4	
+3'			2.0	221.9	
bl			5.6	218.3	
y			9.4	216.5	
+3'			11.7		
	153.8'	S of	Market = Penn av in E		
E			3.7	220.2	
+3'			4.2	219.7	
bl			7.7	216.2	
y			8.4	215.5	

	12.28	228.19	215.91	TP
	167.9 S on W 153.8 S on E	angle Point		
E +8'		8.0 11.2	220.2	
lb		11.8		
y		11.4		
b		11.6	216.6	
y		13.2		
bb		14.6		
W		15.2	213.0	
	153.8 S on E 137 S of angle on W	= N S of Penn av (bb)		
w		(11.3 9.2)	216.9 219.0	
bb		(10.3 8.7)	217.9 219.4	
y		10.1		
b		10.3	217.9	
y		10.0		
bb		11.2		
E		8.0		

228.19 Sheldon

N bb of Penn av

E	7.7	220.5	
lb	6.7		
y	7.9		
b	8.4	219.8	
y	8.6		
bb	8.5		
W	8.6	219.6	

N 1/4 of Penn

W	8.5	219.7
bb	8.3	
y	8.3	
b	7.4	220.8
y	6.7	
bb	5.7	
E	4.0	224.2

22819

Center of Penn an

E		3,2	225.0
bk		4,2	
y		5,3	
b		5,8	222.4
y		8,1	
bk		8,4	
W		8,5	219.7
	S 1/4 of Penn		
W		8,6	219.6
bk		8,3	
y		7,8	
b	+4'	6,0	
		5,2	223.0
y		4,0	
bk		2,9	
E		2,2	226.0

22819

Sheldon

S bk of Penn an

E		+02	228.4
bk		1,5	226.7
y		3,2	
b		5,0	223.2
y		7,6	
bk		8,3	
W		8,8	219.4
	S bk +5'		
W		8,9	219.3
bk		8,3	
y		7,5	
b		5,6	222.6
y		3,3	
bk		1,4	
E		0,0	228.2

22819

S line of Penn ave

W			9.3	218.9
bk			8.3	
y			7.8	
74'			5.1	
b			3.5	224.7
y			0.6	
TP	1265	24084 ✓	00	225.9 ✓
bk			10.4	
E			7.9	232.9

Pennsylvania ave (60') & Pl

E of Sheldon

S			7.9	
75'			12.4	
bk			12.2	
y				226.0
b				225.0
y				224.2
bk				220.5
r				220.2

24084

2.5' E of Sheldon

S	6.4
bk	8.5
y	10.9
b	12.1
y	13.4
bk	16.3
r	15.8

50' E of Sheldon

W	10.0
bk	9.3
y	7.6
b	7.1
y	6.5
bk	5.2
S	4.2

24084

70' E = W line of alley

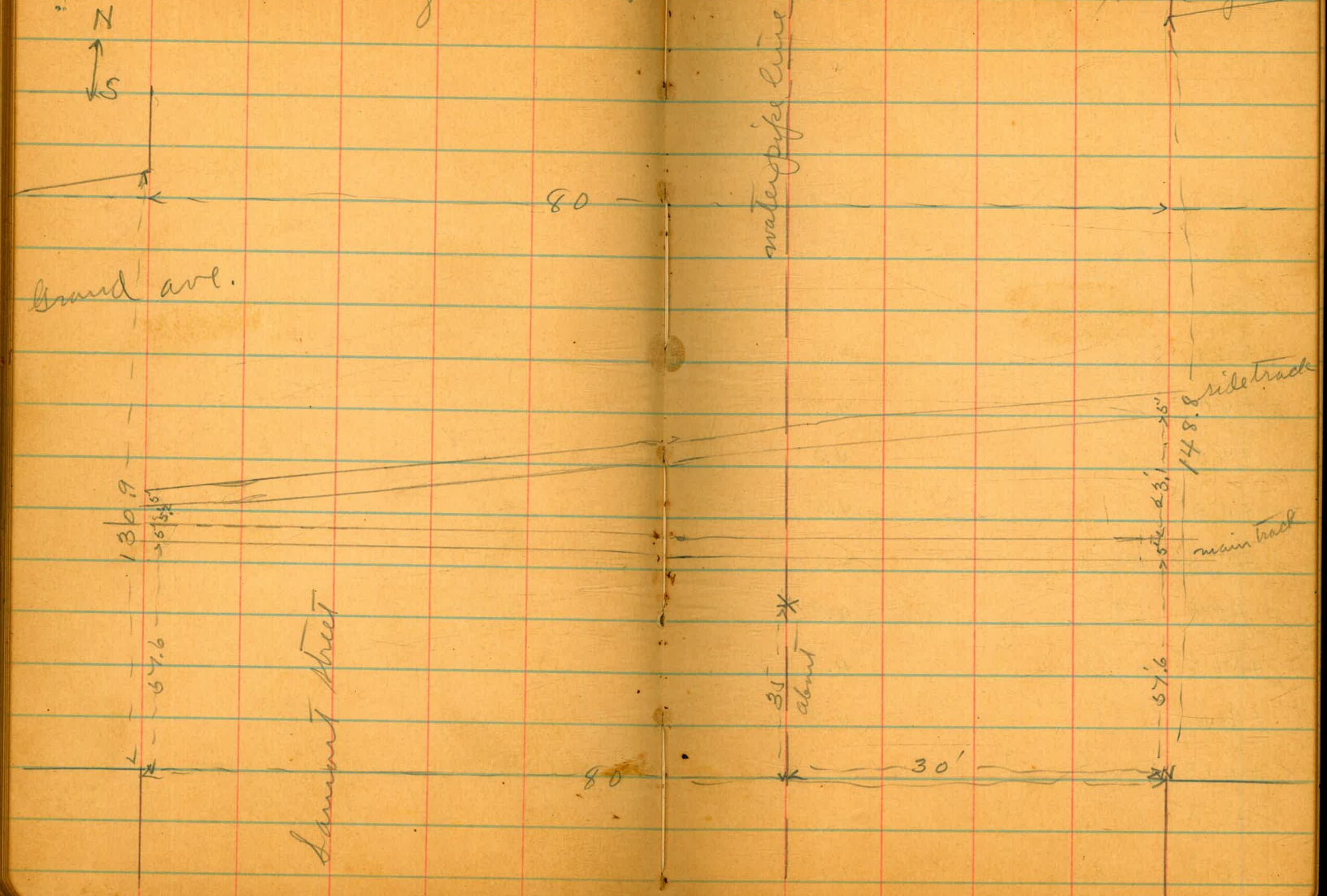
S	1,8	
bb	1,6	
y	2,2	
b	2,5	
g	3,3	
bb	4,9	
n	(5-8) 4,0	

15' E = E line of alley

n	1,9	
bb	1,2	
y	0,0	
b	+0,2	241,0
g	+0,4	241,2
bb	+0,4	241,2
S (Has been graded off)	+0,4	241,2

Diagram showing location of R.R. tracks & pipe line at Intersection of Lamont & Grand ave. Oct. 7/10

Childs
Barber
Taylor



X Sect. & Survey of Intersection of Lamont & Grand ave. Pacific Beach.

Sta.		H.I. Rod	Elev.
1		3.8 53.55	50.37
	West line Lamont.		
So. line		4.4	
+20		4.7	
+20.5		5.2	
+30		5.4	
+35		5.2	
+40		4.7	
+45		4.4	
+50		4.4	
+51.6	rail	4.3	
+55		4.3	
+56.6	rail	4.3	
+60		4.2	
+61.8	rail	4.1	
+65		4.1	
+66.9	rail	4.1	

Sta		
+70		4.1
+75		4.0
+80		3.9
+86		4.0
+90		4.1
+95		4.2
1+00		4.2
+05		4.2
+09.8	gutter	4.1
+10.3	curb	3.2
+30.9	North prop.	3.0

5' east of west line

20. line		4.5
+20		4.7
+20.5		5.1
+25		5.3
+30		5.5
+35		5.1
+40		4.8
+45		4.4
+50		4.4
+51.6	rail	4.4
+53		4.4
+56.5	Rail	4.3
+60		4.2
+62.6	rail	4.1
+65		4.2
+67.5	rail	4.1
+70		4.2
+75		4.0
+80		3.9
+85		3.9
+90		4.1
+95		4.2
1+00.		4.2
+05		4.1
+11		4.1
+11.5		3.2
21. line		3.0

10' east of west line

sta.	
So. line	4.6
+20	4.7
+20.5	5.1
+25	5.4
+30	5.4
+35	5.1
+40	4.8
+45	4.5
+50	4.5
+51.6 rail	4.4
+55	44
+56.5 rail	4.4
+60	4.3
+63.5 rail	4.1
+65	4.2
+68.6 rail	4.2
+70	4.2
+75	3.9
+80	3.8
+85	3.9
+90	4.0
+95	4.2
1+00	4.2
+05	4.1
+10	4.1
+11.9	3.9
+12.4	3.2
No. line	3.1

15' east of street line

So. line		4.7
+18.5		4.7
+19		5.4
+20		5.4
+25		5.6
+30		5.4
+35		5.2
+40		4.9
+45		4.7
+50		4.4
+51.6	rail	4.4
+55		4.4
+56.5	rail	4.4
+60		4.3
+65	rail	4.0
+70	rail	4.0
+75		3.9
+80		3.8
+85		3.9
+90		4.1
+95		4.2
1+00		4.2
+05		4.2
+10		4.1
+13.5		3.9
+14		3.2
no. line		3.1

west curb (30' east of centerline)

20. line		4.7
+10		4.7
+12		5.4
+15		5.6
+20		5.7
+25		5.8
+30		5.5
+35		5.1
+40		4.8
+45		4.7
+50		4.5
+51.5	rail	4.4
+55		4.4
+56.5	rail	4.4
+60		4.2
+65		4.1
+66	rail	4.0
+70		4.0
+71	rail	4.1
+75		3.9
+80		3.9
+85		4.0
+90		4.1
+95		4.2
100		4.2
+05		4.3
+10		4.1
+15		4.10
+20		3.8
+23		3.7
+25		3.2
Mo line		3.2

20.5' east of west line

20. line	5.7
+05	5.4
+10	5.5
+15	5.7
+20	5.8
+25'	5.7
+30	5.4
	5.1
	4.8
	4.7
+50	4.5'
+51.5' rail	4.4
+55'	4.5'
+56.5' rail	4.4
+60	4.3
+65'	4.1

+66.25 rail	4.0
+70	4.0
+71.25'	4.1
+75'	4.0
+80	3.9
+85'	4.0
+90	4.1
+95	4.3
+00	4.2
+05	4.3
+10	4.1
+15'	4.0
+20	3.9
+25'	3.8
+30	3.8
no. line	3.7

25' east of west line

20. line	6.4
+05	6.2
+10	6.1
+15	6.0
+20	5.9
+25	5.6
+30	5.3
+35	5.1
+40	4.8
+45	4.8
+50	4.6
+57.5 Rail	4.45
+55	4.5
+56.5 rail	4.5
+60	4.3
+65	4.1
+67 rail	4.0
+70	4.0
+72 rail	4.05
+75	4.0
+80	3.9
+85	3.9
+90	4.1
+95	4.2
1+00	4.2
+05	4.1
+10	4.1
+15	4.0
+20	3.9
+25	3.8
+30	3.8
no line	3.7

30' east of west line

20. line	6.6
+05	6.3
+10	6.0
+15	5.9
+20	5.8
+25	5.7
+30	5.5
+35	5.1
+40	4.9
+45	4.8
+50	4.6
+51.6 rail	4.5
+55	4.6
+56.6 rail	4.55
+60	4.5
+65	4.2
+68.65 rail	4.0
+70	4.1
+73.65 rail	4.0
+75	4.1
+80	3.9
+85	4.1
+90	4.3
+95	4.2
1+00	4.2
+05	4.1
+10	4.0
+15	4.0
+20	4.0
+25	3.9
+30	3.8
+35	3.6
no. line	3.6

35' east of west line

So. line		6.1	+70		4.1
+05		5.5	+74.2	rail	4.0
+10		5.5	+75		4.0
+15		5.6	+80		4.0
+20		5.7	+85		4.0
+25		5.6	+90		4.2
+30		5.4	+95		4.3
+35		5.2	1+00		4.3
+40		4.8	+05		4.1
+45		4.8	+10		4.0
+50		4.7	+15		4.0
+51.6	rail	4.55	+20		3.9
+55		4.6	+25		3.9
+56.6	rail	4.6	+30		3.9
+60		4.6	+35		3.9
+65		4.2	no. line		3.8
+69.2	rail	4.0			

40' east gravel line (center) og

So. line	6.1
+05	5.6
+10	5.6
+15	5.8
+20	5.7
+25	5.6
+30	5.5
+35	5.2
+40	5.0
+45	4.9
+50	4.7
+51.6 rail	4.6
+55	4.7
+56.6 rail	4.6
+60	4.5
+65	4.2
+70	4.6

Same

+70.9 rail	3.9
+75	4.0
+75.9 rail	3.9
+80	4.0
+85	4.1
+90	4.2
+95	4.2
1+00	4.1
+05	4.0
+10	4.1
+15	4.1
+20	4.0
+25	4.0
+30	3.9
+35	3.9
no. line	3.8

5' east of center

No. line	6.3
+05	6.0
+10	5.8
+15	5.8
+20	5.7
+25	5.5
+30	5.4
+35	5.2
+40	5.0
+45	4.8
+50	4.7
+57.6 rail	4.6
+55	4.7
+56.6 rail	4.7
+60	4.6
+65	4.1
+70	4.0
+71.8 rail	3.9
+75	4.0
+76.8 rail	3.9
+80	4.0
+85	4.1
+90	4.3
+95	4.3
1+00	4.1
+05	4.0
+10	4.0
+15	4.0
+20	4.0
+25	4.0
+30	4.1
+35	4.0
no line	3.9

9' east of center

RO. line	6.2
+05	5.9
+10	5.8
+15	5.8
+20	5.6
+25	5.5
+30	5.5
+35	5.3
+40	5.1
+45	4.9
+50	4.7
+51.66 rail	4.7
+55	4.8
+56.66 rail	4.7
+60	4.5
+65	4.2
+70	4.0
+72.5 rail	3.9
+75	4.0
+77.5 rail	3.9
+80	4.0
+85	4.2
+90	4.3
+95	4.3
+100	4.1
+05	4.0
+10	4.0
+15	4.1
+20	4.2
+25	4.2
+30	4.2
+35	4.2
+40	4.0
RO. line	4.0

53.55

10' east of center

Solino		6.3	47.28	+72.5 rail	3.9
+5		6.0	47.55	+75	4.0
+10		5.8	47.75	+77.6 rail	3.9
+15		5.9	47.65	+80	4.1
+20		5.7	47.85	+85	4.3
+25		5.6	47.95	+90	4.3
+30		5.5	48.05	+95	4.3
+35	X about where wheel went in.	5.4	48.15	+100	4.1
+40		5.1	48.45	+05	4.1
+45		4.9	48.65	+10	4.1
+50		4.7	48.85	+15	4.1
+51.6 rail		4.7	48.85	+20	4.2
+55		4.7	48.85	+25	4.2
+56.6 rail		4.7	48.85	+30	4.3
+60		4.5	49.05	+35	4.3
+65		4.2	49.35	+40	4.1
+70		4.1	49.45	no line	4.0

11' east of center

Solid	6.2
+05	6.0
+10	5.8
+15	5.8
+20	5.7
+25	5.6
+30	5.4
+35	5.4
+40	5.0
+45	4.8
+50	4.7
+57.6 rail	4.7
+55	4.7
+56.6 rail	4.7
+60	4.5
+65	4.2
+70	4.1
+72.7 rail	3.9
+75	4.0
+77.6 rail	3.9
+80	4.0
+85	4.3
+90	4.3
+95	4.3
1+00	4.2
+05	4.1
+10	4.1
+15	4.1
+20	4.2
+25	4.3
+30	4.3
+35	4.2
+40	4.1
solid	4.0

15' east of center

Baseline		6.3
+05		6.2
+10		6.1
+15		6.0
+20		5.9
+25		5.6
+30		5.6
+35		5.5
+40		5.1
+45		4.8
+50		4.8
+51.6	rail	4.7
+55		4.7
+56.6	rail	4.8
+60		4.4
+65		4.3
+70		4.1
+73.7	rail	3.9
+75		3.9
+78.6	rail	3.9
+80		4.0
+85		4.3
+90		4.3
+95		4.3
1+00		4.2
+05		4.2
+10		4.2
+15		4.2
+20		4.2
+25		4.3
+30		4.3
+36		4.3
+40		4.2
Baseline		4.0

19.5' east of center

50. line		6.5'	+75.0	rail	3.9
+05'		6.3	+75		
+10		6.3	+80	rail	3.9
+15'		6.2	+85		4.3
+20		6.0	+90		4.4
+25'		5.7	+95		4.4
+30		5.7	1+00		4.3
+35'		5.6	+05'		4.2
+40		5.1	+10		4.2
+45'		4.9	+15'		4.2
+50		4.8	+20		4.2
+51.6	rail	4.8	+25		4.4
+55'		4.8	+30		4.4
+56.6	rail	4.8	+35'		4.4
+60		4.5	+40		4.1
+65'		4.4	no line		4.1
+70		4.2			

20' east of center (curb)

Solid		6.2
+05		6.0
+10		6.0
+14		6.3
+15		6.4
+20		6.1
+25		5.8
+30		5.8
+35		5.6
+40		5.2
+45		5.0
+50		4.9
+51.6	rail	4.8
+55		4.7
+56.6	rail	4.8
+60		4.5
+65		4.4
+70		4.2
+75		4.0
+75.4		3.9
+80.0		3.9
+80.4		3.9
+85		4.2
+90		4.3
+95		4.4
1+00		4.3
+05		4.2
+10		4.1
+15		4.2
+20		4.2
+25		4.3
+30		4.4
+33		4.4
+34		4.2
+35		
No line		4.2

25 east Center

Baseline	5.9
+05	5.8
+10	5.9
+15	5.7
+17	6.0
+19	6.5
+20	6.3
+25	5.9
+30	5.8
+35	5.7
+40	5.2
+45	5.0
+50	4.9
+57.6 rail	4.8
+55	4.8
+56.6 rail	4.85
+60	4.6
+65	4.4
+70	4.2
+75	4.1
+76.1 rail	3.9
+80	4.0
+81.1 rail	3.9
+85	4.2
+90	4.3
+95	4.4
1+00	4.2
+05	4.2
+10	4.2
+15	4.2
+20	4.3
+25	4.5
+27	4.4
+29.5	4.1
Baseline	4.0

+30' east of center

So. line	6.0
+05	5.8
+10	5.8
+15	5.8
+19	5.8
+20	6.5
+25	6.0
+30	5.8
+35	5.7
+40	5.4
+45	5.1
+50	4.9
+54.6 rail	4.85
+55	4.9
+56.6 rail	4.9
+60	4.8
+65	4.6
+70	4.6
+75	4.3
+77.6 rail	3.95
+80	4.0
+82.6 rail	3.9
+85	4.1
+90	4.3
+95	4.4
1 rod	4.3
+05	4.3
+10	4.2
+15	4.3
+20	4.4
+25	4.4
+26	4.3
+26.5	4.2
N. line	4.0

Lewis Dorman
734-10

Levels on Eagle St

#400

	2.40	265.45		263.05	BM N E Eagle & Wash
	S Sin of Washington				
E bk			3.4	262.0	
W bk			3.4	262.0	
TP	2.69	262.70	5.44	260.01	
	N Sin of Douglas				
E bk			4.60	258.1	
W bk			2.70	260.0	
	S S of Douglass				
E bk			4.70	258.0	
	Pueblo Sin				
E bk			5.7	257.0	
W bk			3.7	259.0	

35' east of center

so line	6.0
+05	5.9
+10	5.9
+15	5.9
+19	5.9
+20	6.5
+25	6.2
+30	6.0
+35	5.7
+40	5.3
+45	5.1
+50	5.0
+51.6 rail	4.9
+55	4.9
+56.6 rail	4.9
+60	4.9
+65	4.6
+70	4.5
+75	4.4
+78.8 rail	3.95
+80	4.0
+83.7 rail	3.9
+85	4.1
+90	4.3
+95	4.3
1+00	4.4
+05	4.3
+10	4.3
+15	4.3
+20	4.3
+25	4.4
+27.0	4.5
+27.5	4.4
no line	4.2 3.9

East line Fairmont.

So line	6.0
+05	5.9
+10	5.9
+15	5.9
+19	6.0
+20	6.6
+25	6.3
+30	6.1
+35	5.8
+40	5.4
+45	5.1
+50	5.0
+56.6 rail	4.9
+55	5.0
+56.6 rail	4.95
+60	4.9
+65	4.7
+70	4.6
+75	4.5
+79.7 rail	4.0
+80	4.1
+84.7 rail	3.9
+85	4.0
+90	4.3
+95	4.3
+00	4.3
+05	4.3
+10	4.3
+15	4.3
+20	4.3
+25	4.5
+28	4.8
+28.5	4.6
No line	4.2
	3.8

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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		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		