LEVEL BOOK

400

F.B.331

H. S. CROCKER COMPANY

DRAWING MATERIALS AND SURVEYING INSTRUMENTS

SAN FRANCISCO

331

TABLES FOR EXCAVATIONS AND EMBANKMENTS

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING

Roadway 18 Feet Wide. Side Slopes 1 to 1.
For Single Track Excavation.

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	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

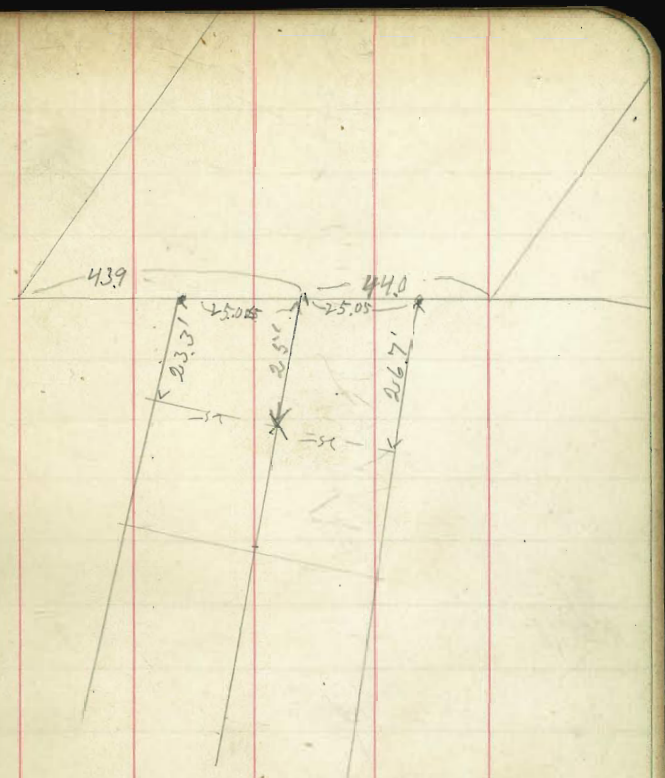
Calculated by Julien A. Hall, M. Am. Soc. C. E.

MICROFILMED
OCT 1964

Engineers Office
City Hall, San Diego, Cal.

Engineers Office
City Hall, San Diego, Cal.

LORING & CO., AGENTS.
762 FIFTH STREET,
SAN DIEGO, CALIFORNIA



Bench Marks
at
La Playa

59.85	S End Lower cement step at (N W Cor 177)
45.95	H. Center S Line of Pueblo 175
44.29	Hub at Tel Pole 75' S of Owens on Rosencrane
33.63	" " " " at Lawrence & "
11.66	Govt Bench Sp in Part in center of San Antonio St at Reservation 1

Clough Feb 08 — Crossection of Extention of Rosencrans st (50') from N Line of Pueblo 177 to Govt Reservation

BM	0.73	6058		59.85	Cement Step S End (Lower)
	N Line of Pueblo			177	
				Pl	54.0
WL			6.5	ch	54.1
bl			6.4		54.2
4				1/4	54.1
			6.6		54.0
b			6.6		54.0
4			7.1		53.5
				1/4	53.4
bl			7.3		53.3
EL			7.7	ch	52.9
				Pl	52.7
	26.7' on East 25.1' on center 23.3' on West		S of	177	
				Prop	52.4
EL =	26.7		7.8	curb	52.8
bl			7.0		53.6
				guar 53.8	
1/4			6.2		54.4
b			5.3	℄	55.3
4			4.8		55.8
				guar 56.4	
bl			4.0		56.6
WL =	23.3		3.9	curb	56.7
				Prop	56.7

POSTED

POSTED

1

		6058		Rosencrans	
	50'	S of	Main	st	
				Pl	58.6
WL			2.5	ch	58.1
bl			3.6		57.0
				1/4	56.6
1/4			4.8		55.6
b			6.3		54.3
4			7.9		52.7
				1/4	51.9
bl			9.0		51.6
EL			10.0	ch	50.6
				Pl	50.1
	75'	S of	Main	st	
				Pl	50.0
EL			10.0	ch	50.6
bl			8.8		51.8
				1/4	52.2
4			7.6		53.0
b			6.7		53.9
4			5.6		55.0
				1/4	56.0
bl			4.0		56.6
WL			3.3	ch	57.3
				Pl	57.7

POSTED

6058

	100'	E of	Main st		
				Pl	55.6
W2			5,7	cl	55.4
bl			5,5		55.1
				1/4	54.8
1/4			6,4		54.2
l			7,3		53.3
1/4			8,7		51.9
				1/4	51.1
l			9,8		50.8
E2			10,9	cl	49.7
				Pl	49.2
	125'	S of	Main st		
				Pl	48.5
E2			11,3	cl	49.3
bl			9,7		50.9
				1/4	51.4
1/4			8,4		52.2
l			7,4		53.2
1/4			6,4		54.2
				1/4	54.3
bl			5,4		55.2
W2			5,1	cl	55.4
				Pl	55.1

Rosenwans

6058

	150'	S of	Main st		
				Pl	55.4
W2			5,4	cl	55.2
bl			6,8		54.8
				1/4	53.8
1/4			8,6		52.0
l			10,1		50.5
1/4			10,7		49.9
				1/4	49.7
bl			11,0		49.6
E2			12,9	cl	47.7
				Pl	46.7
TP	7,73	53.54	12,77	47,81	
	175'	S of	Main st	Pl	47.4
E2			7,4	cl	48.1
bl			6,0		49.5
				1/4	49.9
1/4			4,6		50.9
l			3,4		52.1
1/4			1,9		53.6
				1/4	53.4
bl			1,2		53.3
W2			10,2	cl	55.7
				Pl	56.9

5-5-54

	200'	S of	Main		
W2			0.0		55.5
bl			1.8		53.7
y			2.4		53.1
b			4.3		54.2
y			5.4		50.1
bl			6.5		49.0
E2			7.9		47.6
	225'	S of	Main		
E2			8.4		47.1
bl			7.3		48.2
y			6.0		49.5
b			4.7		50.8
y			2.5		52.0
bl			2.4		53.1
W2			0.9		54.6

Rosendans

5-5-54

	250'	S of	Main		
W2			1.0		54.5
bl			3.0		52.5
y			4.3		51.2
b			5.7		49.8
y			7.0		48.5
bl			7.8		47.8
E2			9.1		46.4
	275'	S of	Main		
E2			9.6		45.9
bl			8.7		47.3
y			7.0		48.5
b			5.4		50.1
y			4.7		50.8
bl			3.7		49.8
W2			2.0		53.5

5-3-5-4

	300'	S of	Main		
W2			3,1	52.4	
bk			5,2	50.3	
4			5,7	49.8	
b			6,8	48.7	
4			8,2	47.3	
bk			8,9	46.6	
E2			10,3	45.2	
	325'	S of	Main		
E2			14,0	41.5	
bk			12,5	43.0	
4			10,8	44.7	
b			9,4	46.1	
4			6,7	48.6	
bk			6,0	49.5	
W2			4,6	50.9	

5-5-4

Rosencrans

	350'	S of	Main		
W2			4,6		50.9
bk			5,9		49.6
4			6,8		48.7
b			8,0		47.5
4			9,2		46.3
bk			10,7		44.8
E2			12,1		43.4
	375'	S of	main		
E2			12,8		42.7
bk			11,2		44.3
4			9,7		45.8
b			8,4		47.1
4			6,8		48.7
bk			6,4		49.1
W2			4,6		50.9

POSTED

	400'	5544 S of	Main				450'	4480 S of	Main	Rusnicans	
WL			6,5-		49.0	WL			0,0		44.8
bl			7,6		47.9	bl			1,4		43.4
y			9,0		46.5	y			2,7		42.1
b			10,1		45.4	b			4,2		40.6
y			11,7		43.8	y			5,2		39.6
bl			12,9		42.6	bl			6,3		38.5
EL			13,9		41.6	EL			7,4		37.4
TP	118	4480	11,92	43.62			475'	S of	Main		
	425'	S of	Main			EL			10,5-		34.3
EL			5,2		39.6	bl			9,3		35.5
bl			3,5-		41.3	y			7,2		37.5
y			2,6		42.2	b			5,6		39.2
b			1,0		43.8	y			4,2		40.6
y			0,0		44.8	bl			3,1		41.1
bl			+1,0	45.8	45.8	WL			1,5-		33.3
WL			+3,0	47.8	47.8						

		44.80						44.23		Rosencrans	
	500'	S of	main				550'	S of	main		
m2			7.0		42.8	m2			7.08	43.7	45.0
bl			2.7		42.1	bl			0.4		43.8
y			4.0		40.8	y			1.5		42.7
b			4.8		40.0	b			2.4		40.6
y			5.8		39.0	y			3.8		40.4
bl			6.4		38.4	bl			4.8		39.4
E2			7.3		37.5	E2			6.3		37.9
	575'	S of	main				575'	S of	main		
E2			6.6		38.2	E2			7.3		36.9
bl			5.4		39.4	bl			6.1		38.1
y			4.3		40.5	y			4.7		39.5
b			2.9		41.9	b			3.4		40.8
TP	2.73	44.23	3.30	41.5		y			2.4		41.8
bl			1.0		43.2	bl			1.0		43.2
bl			0.0		44.2	m2			0.2	44.4	44.4
m2			+1.0	43.7	45.2						

		44.23						44.23		Rosencrans	
	600'	S of	Main				650'	S of	Main		
WL			0.0		44.2	WL			2.2		42.0
bl			1.4		42.8	bl			3.3		40.9
"			3.1		41.1	"			4.7		39.5
b			4.2		40.0	b			6.6		37.6
"			5.3		38.9	"			9.2		35.0
bl			6.6		37.6	bl			11.5		32.7
EL			8.8		35.4	EL			14.0		30.2
	625'	S of	Main				661.3 E 663.5 E 664.7 W	662.5 OK = N.L. of	Rueblo	175	
EL			11.3		32.9	EL			15.2		29.0
bl			8.2		36.0	bl			12.2		32.0
"			6.1		38.1	"			9.5		34.7
b			4.8		39.4	b			7.6		36.6
"			3.1		41.1	"			5.9		38.3
bl			2.0		42.2	bl			4.3		39.9
WL			0.7		43.5	WL			3.1		41.1

		44.23			
	675'	S of	Main	st	
WL			4,4		39,8
bl			6,2		38.0
"			7,5		37.7
b			9,8		34.4
"			12,2		32.0
TP	703	40.55	10,71	33.52	
bl			9,8		30.8
EL			12,0		28.5
	700'	S of	Main		
EL			14,1		26.4
bl			12,2		28.4
"			10,1		30.6
b			6,7		33,8
"			4,7		35.9
bl			2,4		38.2
WL			0,3		40,2

		40.55		Rosencrans	
	725'	S of	Main	st	
WL			0,0		40.5
bl			3,1		37.5
"			6,3		34.3
b			9,1		31.4
"			11,0		29.6
bl			12,6		28.0
EL			14,0		26.5
	750'	S of	Main		
EL			13,0		27.5
bl			11,6		29.0
"			9,7		30.9
b			7,0		33.5
"			5,3		35.3
bl			3,6		37.0
WL			1,6		38.9

POSTED

	775'	40.5- S of	Main st		
WL			0.0		40.5
bk			1.6		39.0
y			4.0		36.6
b			6.5		34.0
y			8.7		32.4
bk			9.8		30.8
EL			10.8		29.7
	800	S of	Main		
EL			8.7		31.8
bk			7.2		33.4
y			5.6		35.0
b			3.3		37.2
y			1.3		39.3
bk			0.0		40.6
TP	9.09	45.96	3.68	36.87	
WL			4.2		41.7

	825'	45-96 S of	Main st	Rosencrans	
WL			3.2		42.7
bk			4.6		41.4
y			6.3		39.5
b			9.2		36.8
y			10.6		34.4
bk			12.0		34.0
EL			13.7		32.3
	850	S of	Main		
EL			12.2		33.7
bk			10.7		35.3
y			9.7		36.3
b			7.7		38.3
y			5.0		41.0
bk			3.8		42.2
WL			2.8		43.2

45.92

	875'	S of	main		
W2			1,9		44.1
bb			3,0		43.0
y			4,4		41.6
b			6,0		40,0
y			9,0		37.0
bb			11,0		35.0
E2	(Interpolate reading at 896.8)		1 v 3		33.7
	900'	S of	main		
E2			10,8		35,2
bb			8,8		37.2
y			7,4		38.6
b			6,4		39.6
y			4,9		41.1
bb			3,9		42.1
W2			3,0		43.0

45.96 Rosemans

	925'	S of	main		
W2			3,4		40,6
bb			6,6		39.4
y			7,3		38.7
b			8,3		37.7
y			9,0		37.0
bb			9,8		37.2
E2			11,0		35,0
	950'	S of	main		
E2			11,0		35,0
bb			10,5		35.5
y			9,7		34.3
b			8,6		37,4
y			7,8		38.2
bb			7,4		38.6
W2			6,4		39.6

		45-96			
	975'	Sep	main		
WL			1,9		44.1
bb			4,3		41.7
y			6,3		39.7
b			8,0		38,0
y			8,7		37.3
bb			9,0		37.0
EL			10,2		35.8
	1000	Sep	main		
EL			5,7		36,3
bb			8,5		37.5
y			7,3		48.5
b			6,3		39.7
y			5,6		40.4
bb			4,7		41.3
WL			0,6		42,4

		45-96			
	1025'	Sep	main		
WL			2,3		43.7
bb			3,5		42.5
y			4,7		41.3
b			6,0		40.0
y			7,1		38.9
bb			8,1		37.9
EL			9,2		36,4
	1150	Sep	main		
EL			8,7		37.3
bb			7,6		38.4
y			6,3		39.7
b			5,3		40.7
y			4,3		41.7
bb			3,0		42.7
WL			2,3		43.7
TP	950	5-21	4,25	43,71	

		5321			
	1075'	S of	Main		
WL			8,1		45.1
bb			9,0		44.2
"			9.7		43.5
b			11,8		41.4
"			14,0		39.2
bl			16,4		36.8
EL			18.0		35.2
	1100'	S of	Main		
EL			12,4		40.8
bb			11,8		41.4
"			10,2		43.0
b			8,7		44.5
"			6,8		46.4
bl			5,0		48.2
WL			3,6		49.6

	1127.7 W 1126.0 b 1124.3 E	5321 = S L of = N L of	Pueblo 175 Rodgers St	Rosencrans (50.1)	
WL			2,1		51.1
bb			3,9		49.3
"			5,4		47.8
b			7,2		46.0
"			9,2		44.0
bl			11,0		42.2
EL			13,2		40.0
BM	7.75	5370	7,26	45.98	Center H of S Line of Pueblo 175
	N bb of Rodgers St				
EL			12,7		41.0
bb			10,8		42.9
"			9,4		44.3
b			7,6		46.1
"			5,7		48.0
bl			4,2		49.5
WL			2,2		51.5

5370

N 1/4 of Rodgers 25

Ws			1,9		51.8
bb			3,6		50.1
7			5,0		48.7
b			6,7		47.0
4			8,7		45.0
bl			10,7		43.0
Es			12,9		40.8

Center of Rodgers

Es			12,3		41.4
bb			11,7		42.0
7			9,3		44.4
b			6,7		47.0
4			4,7		49.0
bl			0,3		50.4
Ws			1,4		52.3

5370 Rosencrans

S 1/4 of Rodgers

Ws			0,6		53.1
bb			2,4		51.3
7			4,0		49.7
b			6,4		47.3
4			10,1		43.6
bl			12,0		41.7
Es			13,5		40.2

S bb of Rodgers

Es			13,4		40.3
bb			11,8		41.9
4			9,2		44.5
b			6,6		47.1
4			3,6		50.1
bl			1,8		51.9
Ws			0,2		53.5

		5370			
(+1176 cut)	S line of		Rodgers st		
WL			0.3		53.4
bb			2.0		51.7
4			4.0		49.7
b			8.0		45.7
4			10.0		43.7
bl			11.5		42.2
EL			13.1		40.6
	1200'	S of	Main st		
EL			12.0		41.7
bb			10.3		43.4
4			9.0		44.7
b			7.3		46.4
4			5.2		48.5
bl			3.3		50.4
WL			1.0		52.7

		5370		Rosencrans	
	1225'	S of	main		
WL			0.0		53.7
bb			1.6		52.1
4			3.3		50.4
b			5.0		48.7
4			6.6		47.1
bl			8.4		45.3
EL			10.0		43.7
	1250'	S of	Main		
EL			8.5	POSTED	45.2
bl			6.2		47.5
4			4.0		49.7
b			1.8		51.9
TP	9.00	60.59	2.11	51.59	
4			7.0		53.6
bb			5.0		55.6
WL			3.5		57.1

	1275	60.5-9 Sq	Main		
WL			1,4		59.2
bb			4,2		56.4
y			5,8		54.8
b			7,3		53.3
y			9.1		51.5
bb			11.0		39.6
E2			13.1		47.5-
	1300'	S q	Main		
E2			11,4		49.2
bb			9,4		51 2
y			7,2		53 4
b			5,5-		55.1
y			3,3		57 3
bb			1,7		58.9
WL			+0.5	61.1	61.1

	1325'	60.5-9 S q	Main	Rosencrans	
E2			12,1		48.5-
bb			9.6		51.0
y			6,6		54.0
b			3,4		57. 2
TP	658	6333	3,84	5675-	
y			4,2		59 .1
bb			1,4		61 9
WL			+0.5	63.8	63.8
	1349.2' W 1350' b 1350.8. E	S = Δ 3° R			
WL			0.0		63,3
bb			2,0		61.3
y			4,5-		POSTED
b			7,2		56.1
y			9,7		53.6
bb			12.0		51.3
E2			14,3		49.0

		63.33			
	+23.7 W 1395.6 +26.3 E	S of	Main		
EL			13.4		49.9
bl			11.2		52.1
y			9.1		54.2
b			6.5		56.8
y			4.3		59.0
bl			2.3		61.0
WL			0.0		63.3
	1400'	S of	Main		
WL			1.0		62.3
bl			4.0		59.3
y			5.3		58.0
b			6.4		56.9
y			9.0		54.3
bl			11.4		52.9
EL			11.8		51.5

		6333		Rosencrans	
	1425'	S of	Main	st	
EL			7.5		55.8
bl			6.3		57.0
y			5.0		58.3
b			3.5		59.8
y			2.0		61.3
bl			0.5		62.8
TP	5.63	67.47	1.49	61.84	
WL			3.2		64.3
	+24.2 a W 1450' S +25.8 E	= Δ	4° R		
WL			0.3		67.2
bl			2.5		65.0
y			3.7		63.8
bl			6.0		61.5
y			7.0		60.5
bl			9.0		58.5
EL			10.4		57.1

		67.47			
	+33.0' on mast 147.9' center +25.5 on Ears	S =	N Line	Qualtrough	rt (50')
Es			9,7		57.8
bb			7,8		59.7
y			6,5		61.0
b			4,8		62.7
y			2,8		64.7
bl			1,3		66.2
Ws			+0.4	67,9	67.9
	N bb of Qualtrough				
Ws			0,3		67,2
bb			1,7		65.8
y			3,7		63.8
b			5,3		62,2
y			7,4		60.1
bl			8.4		59.1
Es			9.4		58.1

		6747		Rosencrans	
	N 1/4 of Qualtrough				
Es			9,4		58,1
bb			7.6		59.9
y			6,2		61.3
b			4.9		62.6
y			3,3		64.2
bl			2,0		65.5
Ws			0.5		67,0
	Center of Qualtrough				
Ws			1,0		66,5
bb			2,6		64.9
y			3,5		64.0
b			5,2		62.3
y			6,4		61.1
bl			7,4		60.1
Es			9,1		58.4

6747

S 1/4 of Qualhoyt

El	9,1	58.4
bb	7,6	59.9
y	6,0	61.5
b	5,0	62,5
y	3,5	64.0
bb	2,6	64.9
Wt	1.1	66.4

S bb of Qualhoyt

Wt	1,0	66,5
bb	2,5	65.0
y	3,7	63.8
b	5,3	62,2
y	6,5	61.0
bb	7,6	59.9
El	9,3	58,2

67.47 Rosencrans

S Lin of Qualhoyt 1530'

El	9,5	58.0
bb	8,0	59.5
y	6,8	60.7
b	5,6	61,9
y	4,4	63.1
bb	3,1	64.4
Wt	1,2	66.3

1550' S of Main

Wt	1,4	66.1
bb	3,1	64.4
y	5,1	62.4
b	6,5	61.0
y	7,6	59.9
bb	8,7	58.8
El	10,0	57,5

POSTED

6747

	1575	S of	Main		
E2			11,00		56.5
bb			9,5		58.0
y			8,4		59.1
b			6,5		61.0
y			4,7		62.8
bb			2,9		64.6
W2			1.1		66.4
	1600	S of	Main		
W2			3,4		64.1
bb			4,9		62.6
y			6,0		61.5
b			7,4		60.1
y			9,7		58.4
bb			10,6		56.9
E2			12,2		55.3

6747

	1625	S of	Main		
E2			18.8		48.7
bb			15,3		52.2
y			13,9		53.6
b			12,6		54.9
y			10,4		56.1
bb			8,0		59.5
W2			6,2		61.3
TP	875	74.10	2,12	65.35	
	1650	S of	Main		
W2			6,0		68.1
bb			8,0		66.1
y			10,0		64.1
b			11,8		62.3
y			13,4		60.7
bb			15,4		58.7
E2			17,7		56.4

	1675' S of	74.10	Main		
E2			13,5		58.6
bl			13,8		60.3
y			11,8		62.3
b			9,7		64.4
y			7,5		66.6
bl			4,7		69.4
W2			2,5		71.6
	1700' S of		Main		
W2			1,8		72.3
bl			4,4		69.7
y			6,6		67.5
b			8,0		66.1
y			9,7		64.4
bl			12,0		62.1
E2			14,1		60.10
T10	8.06	74.46	7.70	6640	12w.

	1725'	S of	Main	Rosenbaum	
W2			1,0		73,5
bl			3,7		70.8
y			5,5		69.0
b			8,2		66.3
y			10,2		64.3
bl			12,0		62.5
E2			13,7		60.8
	1750'	S of	Main		
E2			13,0		61,5
bl			10,6		63.9
y			8,5		66.0
b			6,8		67.7
y			4,6		69.9
bl			3,0		71.5
W2			0.7		73.8

		74.46			
	1775'	S of	Main		
WL			0.8		73.7
bb			3.0		71.5
4			5.3		69.2
b			7.0		67.5
4			8.5		66.0
bb			10.8		63.7
EL			12.6		61.9
	1800'	S of	Main St		
EL			12.7		61.8
bb			10.8		63.7
4			9.0		65.5
b			7.3		64.2
4			4.7		69.8
bb			2.4		72.1
WL			0.6		73.9

		74.46		Rosencrans	
	1840.2' on West 1836.4' Cent 1832.6' on East		= N ℄ of Perry St (50')		
WL			1.5		73.0
+ 8' =	W Line of Rosencrans		3.3		71.2
bb			3.5		71.0
4			5.8		68.7
1			8.3		66.2
4			10.0		64.5
bb			12.0		62.5
EL			13.7		60.8

POSTED

7446

N bk of Perry st

E2	15.0	59.5	
bl	13.7	61.3	
y	11.8	62.7	
b	9.0	65.5	
y	6.4	68.1	
bl	4.0	70.6	
W2	1.4	73.1	

N 1/4 of Perry st

W2	2.8	71.7	
bl	5.3	69.2	
y	7.5	67.0	
b	10.7	63.8	
y	13.7	61.3	
bl	14.7	59.8	
E2	16.2	58.3	

7446 7446

Center of Perry st

E2	16.9	58.5	
bl	13.5	61.0	
y	11.0	63.5	
b	9.6	64.9	
y	6.1	68.4	
bl	4.4	70.1	
W2	3.0	71.5	

S 1/4 of Perry st

W2	2.8	71.7	
bl	4.7	69.8	
y	6.8	67.7	
b	9.8	64.7	
y	12.0	62.5	
bl	12.6	61.7	
E2	14.8	59.7	

74.46

S bk of Perry st

El			14.0		60.5
bl			11.6		62.9
4			9.0		65.5
b			7.1		67.4
4			5.4		69.1
bl			4.4		70.1
WL			2.7		72.1

S L of Perry st = 1887.5 ft Common

WL			2.7		71.8
bl			4.4		70.1
4			6.2		68.3
b			8.0		66.3
4			10.0		64.5
bl			11.7		62.8
El			13.4		61.1
TP	32.9	69.65	8.10	66.36	

69.65

Reservations at

	50'	S of	Perry	st	
El			10.4		59.2
bl			8.0		61.6
4			6.4		63.2
b			4.4		65.2
4			2.8		65.8
bl			1.2		68.4
WL			7.2	69.8	69.8
	100'	S of	Perry	st	
WL			2.8		66.8
bl			4.7		64.9
4			6.4		63.2
b			8.1		61.5
4			10.0		59.6
bl			11.4		58.4
El			13.0		56.6

69.65

	150'	S of	Perry		
WL			6,1		63.5
bl			7,9		61.7
y			8,8		60.8
b			10,1		59.5
g			12,2		57.4
TP	4.13	62,66	11,12	58,13	
bl			7,0		55.7
E2			9,1		53.6
	200'	S of	Perry	et	
E2			11,3		51.2
bl			9,4		53.3
y			7,6		55.1
b			5,2		57.1
g			4,4		58.3
bl			3,0		59.7
WL			1,6		61.1

62,66

Rosencrans

	250'	S of	Perry	et	
WL			7,7		55,0
bl			9,4		53.3
y			9,8		52.9
b			11,5		51,2
g			12,6		50.1
bl			13,2		49.5
E2			13,8		48.9
	300'	S = n & Owens et (50')			
E2			13,5		49.2
bl			12,7		50.0
y			11,8		50.9
b			11,2		51,5
g			10,5		52.2
bl			10,01		52.7
WL			9,6		53.1
TP	1.71	54,82	9,53	5311	

54.82

N bb of Owens st

WL			2,4		52.1
bb			2,7		52.1
"			3,2		51.6
b			3,7		51.1
"			4,5		50.3
bb			5,2		49.6
EL			6,0		48.8

N 1/4 of Owens st

EL			6,2		48.6
bb			5,6		49.2
"			4,8		50.0
b			4,2		50.6
"			3,9		50.9
bb			3,7		51.1
WL			3,4		51.4

54.82 Rosencrans

Center of Owens st

WL			5,0		49.8
bb			5,8		49.0
"			6,0		48.8
b			6,0		48.8
"			6,3		48.5
bb			7,0		47.8
EL			7,4		47.4

S 1/4 of Owens st

EL			10,0		44.8
bb			9,6		45.2
"			8,8		46.0
b			9,0		45.8
"			8,2		46.6
bb			8,0		46.8
WL			8,0		46.8

54.82

S bb of Owens

WL			8,5		46.3
bb			10,0		44.8
"			10,6		44.2
b			11,5		43,3
"			13,2		41.6
bl			13.8		41.0
EL			13,0		41.8

S line of Owens

EL			10,5		44.3
bb			9,0		45.8
"			9,0		45.8
b			10,0		44,8
"			9,5		45.3
bl			7,4		47.4
WL			5,8		49.0

54.82 Rosentians

50' S of Owens

WL			4,0		50,8
bb			4,5		50.3
"			5,4		49.4
b			6,2		48,6
"			7,0		47.8
bl			7,9		46.9
EL			9,3		45,5

100' S of Owens

EL			10,8		44.0
bb			10,2		44.6
"			9,1		45.7
b			8,1		46,7
"			7,0		47.8
bl			6,8		48.0
WL			6,2		48,6

		5482			
	150'	S of	Owens		
WL			7,3		47.5
bb			7,7		47.1
"			8,4		46.4
b			9,3		45.5
"			10,0		44.8
bb			10,8		44.0
EL			11.1		43.7
BMTP	7,10	51.39	10,53	44,29	Hub at 7th Pl. 100' S of Owens
	200'	S of	Owens st		
EL			8,6		42.8
bb			8,3		43.1
"			7,6		43.8
b			6,7		44.7
"			5,7		45.7
bb			4,8		46.6
WL			4,1		47.3

		5139		Rosencrans	
	250'	S of	Owens st		
WL			5,0		46,4
bb			5,5		45.9
"			6,5		44.9
b			7,6		43.8
"			8,7		42.7
bb			9,0		42.4
EL			9,8		41.6
	300'	S =	N L of	Nichols st (50')	
EL			9,6		41.8
bb			9,1		42.3
"			8,1		43.3
b			7,2		44.2
"			6,0		45.4
bb			5,6		45.8
WL			4,7		46,7

5139

N bb of Nichols st

WL			5,0		46,4
bb			5,7		45.7
"			6,8		44.6
b			7,4		44.0
"			8,5		42.9
bb			9,0		42.4
EL			9,6		41.8

N 1/4 of Nichols

EL			9,6		41.8
bb			8,6		42.8
"			8,0		43.4
b			7,2		44.2
"			6,2		45.2
bb			5,8		45.6
WL			5,0		46,4

5139 Rosencians

Center of Nichols st

WL			5,0		46,4
bb			5,8		45.6
"			6,6		44.8
b			7,1		44,3
"			8,3		43.1
bb			8,8		43.6
EL			9,4		42,0

S 1/4 of Nichols

EL			9,3		42,1
bb			8,7		42.7
"			8,0		42.4
b			7,1		44,3
"			6,3		45.1
bb			5,8		45.6
WL			5,0		46.4

5-1-39

SCh of Nichols

WR			5,0	46.4
bl			5,9	45.9
4			6,8	44.6
b			7,1	44.3
4			8,5	42.9
bl			8,7	42.7
EL			9,3	42,1

SL of Nichols

EL			9,0	42,4
bl			8,8	42.6
4			8,0	43.4
b			7,5	43.9
4			6,8	44.6
bl			6,0	44.4
WR			5,5	45,9

5-1-39

Rosencrans

29

5-0' SL Nichols

WR			5,5	45,9
bl			7,4	44.0
4			8,0	43.4
b			8,5	42,9
4			9,7	42.7
bl			10,0	41.4
EL			10,3	41,1

10,0' SCh Nichols

EL			11.1	40,3
bl			10,9	40.5
4			10,0	41.4
b			9,4	42.0
4			8,7	42.7
bl			8,2	43.2
WR			7,2	44,2

POSTED 4/20

51.39

	150'	S of	Nichols		
WR			8,6		42,8
bl			9,4		42.0
y			10,2		41.2
b			10,6		40,8
r			11,6		39.8
bl			12,1		39.3
EL			12,3		39,1
	200'	S of	Nichols		
EL			13,6		37.8
bl			13,2		38.2
y			12,6		38.8
b			11,7		39.7
r			11,5		39.9
bl			10,9		40.5
WR			10,0		41,4
TP	1,05	42,51	9,93	41.46	

42.51 Rosenians

	250	S of	Nichols	
WR			2,1	40,4
bl			2,8	39.7
y			3,6	38.9
b			3,7	38,8
r			4,9	37.6
bl			5,5	37.0
EL			5,4	37.4
	300'	S =	Mc Gall st (80')	
EL			6,5	36,0
bl			6,6	35 9
y			6,1	35 4
b			5,2	36.9
r			4,9	37 6
bl			4,2	38.3
WR			3,7	38.8

4251

N bb of Mc Call st

WL	4,0	38.5
bb	5,0	37.5
4	5,4	37.1
b	6,2	36,3
4	6,6	35.9
bl	6,7	35.8
EL	7,0	35.5

N 1/4 of Mc Call st

EL	7,3	35.2
bb	7,0	35.5
4	6,9	35.6
b	6,5	36,0
4	5,5	37.0
bl	5,0	37.5
WL	4,1	38.4

4251 Rosencrans

Center of Mc Call

WL	4,2	38,3
bb	5,0	37.5
4	5,9	36.6
b	6,3	36.2
4	7,0	35.5
bl	7,2	35.3
EL	7,4	35,1

S 1/4 of Mc Call

EL	7,8	34,7
bb	7,6	34.9
4	7,3	35.2
b	6,6	35,9
4	6,0	36.5
bl	5,1	37.4
WL	4,5	38.0

POSTED

4251

S bb of Mc Call

WL			4,5	38.0
bb			5,5	37.0
4			6,2	36.3
b			6,8	35.7
4			7,4	35.1
bl			7,9	34.6
EL			8,0	34.5

S L of Mc Call

EL			8,5	34.0
bb			7,6	34.9
4			7,7	34.8
b			6,8	35.7
4			6,4	36.1
bl			5,8	36.7
WL			4,7	37.8

4251 Rosencrans

50' S of Mc Call

WL			5,2	37.3
bl			5,8	36.7
4			6,4	36.1
b			6,9	35.6
4			7,4	35.1
bl			7,6	34.9
EL			7,8	34.7

100' S of Mc Call

EL			8,2	34,3
bb			8,1	34.4
4			7,8	34.7
b			6,9	35,6
4			6,3	36.2
bl			5,6	36.9
WL			5,1	37,4

4+51

	150'	S of	Inc Coll		
WL			5,6		36.9
bl			6,2		36.3
y			6,8		35.7
b			7,6		34.9
y			8,1		34.4
bl			8,6		33.9
EL			9,0		33.5-
	200	S of	Inc Coll		
EL			9,5-		33.0
bl			8,7		33.8
y			8,3		34.2
b			8,3		34.2
y			7,3		35.2
bl			7,1		35.4
WL			6,7		36.3
Tp	9.03	4+66	8,88	33.63	BM H of Pk at Lawrence

4+66 Rosencrans

	250'	S of	Inc Coll	
WL			6,5-	36.2
bl			7,3	35.4
y			8,2	34.5
b			8,8	33.9
y			9,3	33.4
bl			9,8	32.9
EL			10,2	32.5-
	300'	S = N	of Lawrence	(50')
EL			9,0	33.7
bl			8,0	34.7
y			8,1	34.6
b			7,4	35.3
y			6,7	36.0
bl			6,1	36.1
WL			5,4	37.3

4266

N bb of Lawrence st

WL			5,1		37.6
bb			5,7		37.0
y			6,5		36.2
b			7,3		35.4
y			8,2		34.5
bb			8,0		34.7
EL			8,6		34.1

N 1/4 of Lawrence

EL			8,5		34.2
bb			7,8		34.9
y			8,0		34.7
b			6,8		35.9
y			6,2		36.5
bb			5,6		37.1
WL			5,0		37.7

4266 Rosencrans

Center of Lawrence st

WL			5,0		37.7
bb			5,4		37.3
y			6,1		36.6
b			6,8		35.9
y			7,7		35.0
bb			8,0		34.7
EL			8,5		34.2

S 1/4 of Lawrence

EL			8,3		34.4
bb			7,5		35.2
y			7,4		35.3
b			6,6		36.1
y			6,0		36.7
bb			5,5		37.2
WL			5,0		37.7

4266

S bk of Lawrence

Bk		4,7	38.0
bk		5,1	37.6
"		5,6	37.1
b		6,4	36.3
"		7,3	35.4
bk		8,4	34.3
Bk		8,0	34.7

S L of Lawrence (50')

Ek		8,1	34.6
bk		7,3	35.4
"		7,3	35.4
b		6,4	36.3
"		5,7	37.0
bk		5,0	37.7
Wk		4,0	38.7

PLOTTED

50' S of Lawrence

	4.72	38.35	33.63	BM at Lawrence
Ek		4,2		34.2
bk		3,7		34.7
"		3,6		34.1
b		2,5		35.9
"		1,8		36.6
bk		1,2		37.2
Wk		0.5		37.9

100' S of Lawrence

Wk		1,5	36.9
bk		2,3	35.1
"		3,0	35.4
b		3,2	35.2
"		4,5	33.9
b		4,7	33.7
Ek		5,0	33.4

		38.35			
	150'	S of Lawrence			
EL			6.0		32.4
bb			5.4		33.0
y			5.3		33.1
b			4.6		33.8
y			3.9		34.5
bl			3.2		35.2
WL			2.2		36.2
	200'	S of Lawrence			
WL			2.5		35.9
bb			4.0		34.4
y			4.6		33.8
b			5.3		33.1
y			5.7		32.7
bl			5.9		32.5
EL			6.5		31.9

		38.35		Rosencrans	
	250'	S of Lawrence			
EL			5.8		32.6
bb			5.2		32.2
y			5.5		32.9
b			4.5		33.9
y			3.8		34.6
bl			3.7		34.7
WL			2.8		35.6
TP	5.31	40.67	2.99	35.36	
	300'	S = N S of Kellogue St (50')			
WL			3.7		37.0
bb			4.5		36.2
y			4.9		35.8
b			5.5		35.2
y			6.3		34.4
bl			7.0		33.7
EL			7.2		33.5

4067

N bb of Kellogue

E2	7,6	33.1	
bb	7,0	33.7	
4	6,3	34.4	
b	5,3	35.4	
7	4,5	36.2	
bl	4,1	36.6	
W2	3,5	37.2	

N 1/4 of Kellogue

W2	3,3	37.4	
bb	3.8	37.9	
7	4,4	36.3	
b	5,4	35.3	
4	5,9	34.8	
bl	6,8	33.9	
E2	7,4	33.3	

4067 Rosencrans

Center of Kellogue

E2	7,0	33.7	
bb	6,4	34.3	
4	5,5	35.2	
b	4,8	35.9	
7	4,0	36.7	
bl	3,7	35.0	
W2	2,9	37.8	

S 1/4 of Kellogue

W2	2,8	37.9	
bb	3,0	37.7	
7	3,8	36.9	
b	4,8	35.9	
4	5,0	35.7	
bl	6,0	34.7	
E2	6,6	34.1	

4067

S bb of Kellogue

E2	6,6	34.1	
bb	6,0	34.7	
4	5,3	35.4	
b	4,8	35.9	
4	4,0	36.7	
bb	3,4	37.3	
W2	2,7	38.0	

S W of Kellogue

W2	2,8	37.9	
bb	3,2	37.5	
4	3,8	37.9	
b	4,5-	36.2	
4	4,8	36.9	
bb	5,4	35.3	
E2	6,0	34.7	

4067

50' S of Kellogue

E2	4,4	36.3	
bb	4,3	36.4	
4	4,0	36.7	
b	3,6	37.1	
4	2,8	37.9	
bb	2,3	38.4	
W2	1,8	38.9	

100' S of Kellogue

W2	2,3	37.4	
bb	2,9	37.8	
4	3,5-	37.2	
b	4,2	36.5-	
4	4,6	36.1	
bb	4,9	35.8	
E2	5-2	35.5-	

Rosencrans

POSTED

4067

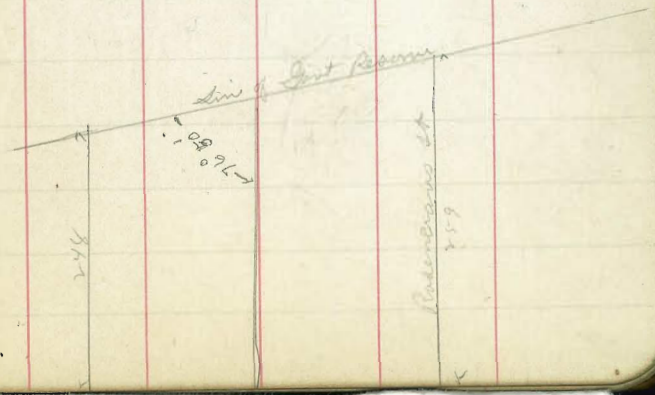
	150'	S of	Kellogue	
Es			5,8	34.9
bb			5,6	35.1
"			5,0	35.7
b			4,5	36.2
"			4,0	36.7
bl			3,4	37.3
Ws			3,0	37.7
	200'	S of	Kellogue	
Ws			2,4	38.3
bb			2,8	37.9
"			3,3	37.4
b			3,8	36.9
"			4,6	36.1
bl			5,0	35.7
Es			5,6	35.1

Rosecrans

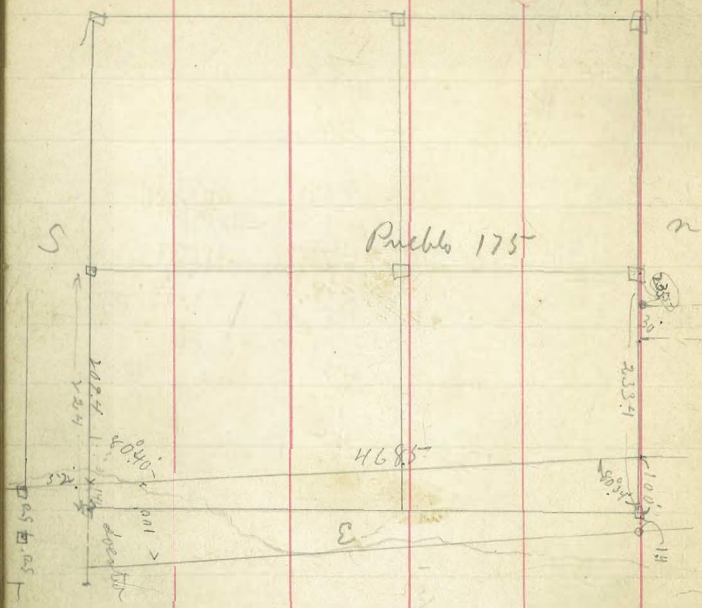
248' S on E = } Govt Reservation
259' S on W = }

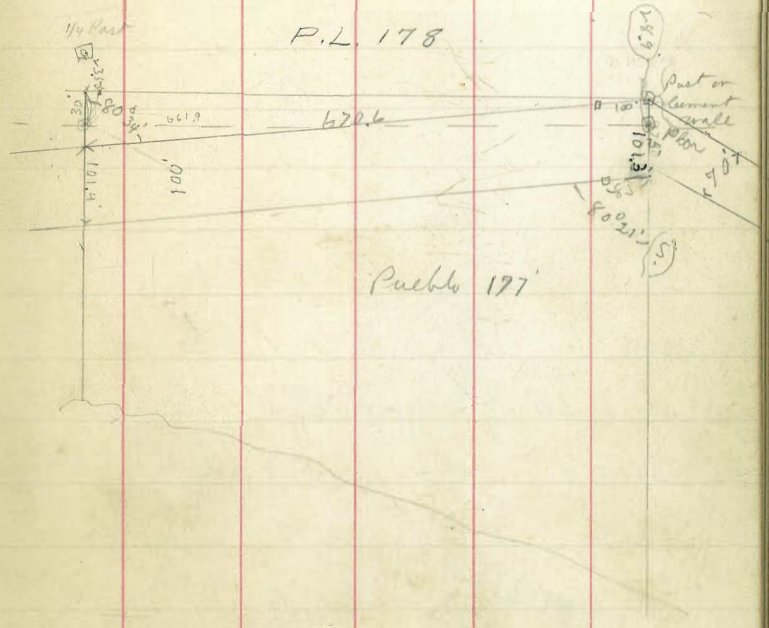
Es		5,9		34.8
bb		5,4		35.3
"		4,5		36.2
b		3,9		36.8
"		3,5		37.2
bl		2,9		37.8
Ws		2,2		38.5
Bm			17,32	Top of Post Kellogue & Main st
Bm			11,66	Sp in Post at Govt Line old Bench

PLOTTED



Location of a Street from S end of Rosencrans as graded to N end of San Antonio in La Playa





POSTED

POSTED

Crossection of San Antonio ave

from N W Cor of Pueblo 177 to Govt Reservation

					lement Stk
BM	0,63	60.48		59.85	
	N Line of	Pueblo	177		
WL			5,1		55.4
bb			5,8		54.7
"			6,3		53.2
b			6,7		53,8
"			7,4		52.1
bb			7,3		52.2
EL			11,8		48.7
	17' S on West Line E L same as above				
EL			11,8		48,7
bb			8,5		52.0
"			6,9		53.6
b			6,4		54.1
"			5,4		55.1
bb			4,3		56.2
WL			0,8		59.7

POSTED

60.48 San antonio

33' East
50' S of Main st (on w)

WL			1,4		59,1
bb			3,6		56.9
"			5,8		54.7
b			8,3		52.2
"			9,3		50.2
bb			11,6		48.9
EL			13,8		46.7
	75' S of Main st				
EL			15,6		44.9
bb			14,4		46.1
"			12,3		48.2
b			9,3		51.2
"			7,0		53.5
bb			4,7		55.8
WL			2,8		57.7

		6048			
	100'	S of	Main	st	
WL			3,0		55.5
bk			6,4		54.1
℄			8,5		52.0
b			10,3		50.2
TP	6,28	5670	10,06	50,42	
℄			9,0		47.7
bk			11,2		45.5
EL			13.8		42.9
	125'	S of	Main	st	
EL			14.9		41,8
bk			12,2		44.5
℄			9,8		46.9
b			7,9		48.8
℄			5,8		50.9
bk			3,2		52.5
WL			1,6		55,1

		5670		San Antonio	
	150'	S of	Main	st	
WL			3,7		53.0
bk			6,5		50.2
℄			8,0		48.7
b			9,4		47.3
℄			12.0		44.7
TP	2,31	5273	6,28	50.42	
bk			10,6		42.1
EL			13,0		39.7
	175'	S of	Main	st	
EL			13,4		39.3
bk			11,2		41.5
℄			9,4		43.3
b			7,9		44.8
℄			6,4		46.3
bk			2,8		49.9
WL			0,0		52,7

		52.73			
	200'	S of	Main st		
WL			1,4		51.3
bb			3,6		49.6
"			6,3		46.4
b			8,7		44.0
"			11,5		41.2
	225	S of	Main st		
WL			2,6		50.1
bb			5,0		47.7
"			7,4		45.3
b			10,0		42.7
	250'	S of	Main st		
WL			4,1		48.6
bb			6,7		46.0
"			8,8		43.9
b			11,2		41.5

		52.73		San Antonio	
	275'	S of	Main st		
WL			5,3		47.4
bb			8,0		44.7
"			10,4		42.3
b			12,8		39.9
TP	2.48	44.75	10.46	42.27	
	200	S of	Main		
EL			7,7		37.1
bb			7,4		37.4
	225	S of	Main		
EL			9,8		35.0
bb			6,6		38.2
"			4,1		40.7
	250'	S of	Main st		
EL			11,4		33.4
bb			8,5		36.3
"			6,0		38.8

		44.75			
	275'	S of	Main st		
EL			14.6		30.2
bh			10.7		34.1
y			7.3		37.5
	300'	S of	Main st		
WL			+0.8	45.5	45.5
bh			1.4		43.4
y			4.1		40.7
b			7.2		37.6
y			10.1		34.7
	325'	S of	Main st		
WL			2.0		42.8
bh			3.0		41.8
y			5.3		39.5
b			8.3		36.5
y			11.6		33.2
	335'	S of	Main		
WL			5.5		39.3
bh			5.0		39.8

		44.75		Sarantino	
	350'	S of	Main st		
WL			4.3		40.5
bh			7.1		37.7
y			8.8		36.0
b			10.9		33.9
	375'	S of	Main st		
WL			4.3		40.5
bh			7.3		37.5
y			10.1		34.7
b			13.0		31.8
	400	S of	Main		
WL			6.6		38.2
bh			9.0		35.8
y			11.6		33.2
TP	3.52	37.38	10.89	33.86	
	300'	S of	Main		
EL			11.6		25.8
bh			6.8		30.6

37.38

	325'	Scf	main st		
EL			13,8		23.6
bh			9,0		28.4
	350'	Scf	main		
EL			15,7		21.7
bh			12,0		25.4
4			7,3		30.1
	375	Scf	main st		
EL			15,6		21.8
bh			13,2		24.2
4			10,6		26.8
	425	Scf	main		
WL			1,5		35.9
bh			4,0		33.4
4			10,0		27.4
	450'	Scf	main		
WL			3.0		34.4
bh			6,0		31.4
4			11,5		25.9

37.38 San Antonio

	475'	Scf	main	st	
WL			5,2		32.2
bh			8,4		27.8
4			13.0		24.4
TP	391	2.955	11.74	25.64	
	400'	Scf	main	st	
EL			9,2		20.4
bh			7,1		22.5
4			4,7		24.9
L			2,6		27.0
	425'	Scf	main		
EL			11,3		18.3
bh			9,4		20.0
4			8,4		21.2
L			5,5		24.1
	450'	Scf	main		
EL			12.8		16.8
bh			11.7		17.9
4			9,7		19.9
L			7.2		22.4

		2955			
	475'	S of	Main		
E2			13.5		16.1
bh			11,5		18.1
4			9,4		20.2
b			7,0		22.6
	500'	S of	Main		
E2			10,8		15.8
bh			12,0		17.6
4			10,0		19.6
b			7,5		22.1
4			5,5		24.1
bh			2,6		27.0
W2			0,3		29,3
	525'	S of	Main		
W2			2,3		27.3
bh			4,8		24.8
4			6,0		23.6
b			8,4		21.2
4			10,3		19.3

		2955		San Antonio	
	550'	S of	Main		
W2			5,7		23.9
bh			7,9		21.7
4			8,7		20.9
b			10.0		19,6
TP	2.16	2.54	9,20	2035	
	525'	S of	Main		
E2			7,8		14.7
bh			6,0		16.5
	550'	S of	Main		
E2			8,6		13.9
bh			6,8		15.7
4			4,9		17.6
	575'	S of	Main		
E2			11,0		11,5
bh			8,2		14.3
4			7,0		15.5
b			5,9		16.6
4			5,3		17.2

		22.5-1			
	575	S			
bb			4,0		18.5
W2			2,8		19.7
	600'	S of	main		
W2			5,0		17,5
bb			5,7		16.8
y			6,5		16.0
b			7,2		15.3
y			8,1		14.4
bb			10,6		11.9
E2			11,3		11.2
	6.25	S of	main		
E2			12,1		10.41
bb			12,0		10.5
y			10,0		12.5
b			8,9		13,6
y			8,3		14.2
bb			7,6		14.9
W2			6,2		16,3

		22.51		San Antonio	
	650'	S of	main	st	
W2			7,7		14.8
bb			9,5		13.0
y			10,2		12.3
b			11,3		11.2
y			12,3		10.2
TP	6.22	1677	11.96	10.55	
bb			6,7		10.1
E2			8,2		8.6
	678'	S of	main	st	
E2			9,9		6.9
bb			8,5		8.3
y			6,4		10.4
b			6,3		10.5
y			5,8		11.0
bb			5,0		11.8
W2			3,1		13,7

1677

	700	S of	Main st	
WL			2,7	14.1
bb			4,5-	12.3
y			6,0	10.8
b			6,2	10.6
y			8,0	8.8
bb			9,5-	7.3
EL			10,6	6.2
	733	S of	Main st	
EL			11,8	5.0
bb			9,8	7.0
y			8,5-	8.3
b			6,0	10.8
y			5,8	11.0
bb			4,7	12.1
WL			1,8	15.0

1677 San Antonio

	750	S of	Main st	
WL			1,8	15.0
bb			4,5-	12.3
y			5,7	11.1
b			6,0	10.8
y			9,0	7.8
bb			10,0	6.8
# 10' Bank			11.9	4.9
	775	S of	Main st	
WL			2,0	14,8
bb			4,1	12.7
y			5,2	11.6
b			6,2	10.6
y			9,0	7.8
bb			10,5	6.3
# 6' Bank			11,0	5.8

		1677			
	800'	S of	Main St		
WL			1,5		15.3
bh			3,0		13.8
"			5,0		11.8
b			6,2		10.6
"			8,1		8.1
bh Bank			10,2		6.6
	825'	S of	Main St		
WL			1.1		15,7
bh			2,7		14.1
"			4,5		12.3
b			5,8		11.0
" Bank			8.2		8.6
TP	4,98	1891	2,84	13,93	
			10,30	6,44	on Rubbly Ht

		1891		San Antonio	
	850'	S of	Main St		
WL			2,4		16.5
bh			4,5		14.4
"			5,3		13.6
b			8.6		10.3
+10' Bank			9.7		9.2
	875'	S of	Main St		
WL			2,8		16.1
bh			5,4		13.5
"			6,0		12.9
b			8,2		10.7
4 Bank			9.7		9.2
	900'	S of	Main St		
WL			3,7		15.2
bh			4,2		16.7
"			6,7		12.2
b Bank			8,5		10.4

POSTED

1891

	925'	S of	Main St	
WL			4,2	14.7
bl			5,5	13.4
¼			7,2	11.7
C Bank			8,7	10.2
	950'	S of	Main St	
WL			4,0	14.9
bl			6,0	12.9
+10'			7,5	11.4
½ Bank			12,3	6.6
	975'	S of	Main St	
WL			4,6	14,3
bl			6,3	12.6
+10'			13,0	5.9
¼ Bank			8,2	10.7
	1000'	S of	Main St	
WL			5,1	13.8
bl			6,5	12.4
¼ Bank			9,4	9.5

1891 San Antonio

	1025'	S of	Main St		
WL			5,2		13.7
+10'	Bank		6,6		12.3
	1050'	S of	Main St		
WL			5,2		13,7
+5'	Bank		6,2		12.7
	1075'	S of	Main		
WL			6.0		12.9
TP	2.14		5.66	13.25	Hub
TP	2.82	5.96	11,75	3.64	
BM			8.60	− 2.64	on Granite Post
					on Pueblo Hub
	2.62	9.09		6.47	
	3.94	0.23	12.82	−3.73	
	735'	S of	Main St		
E2			2,2		−2.0
	750'	S of	Main		
E2			3.4		− 3.2
+5'			2,5		

0.23

	775'	S of	Main	
E 2			4.4	− 4.2
+10'			3.1	− 2.9
	800'	S of	Main st	
E 2			3.2	− 3.1
+15'			3.5	− 3.3
	825'	S of	Main st	
E 2			3.7	− 3.5
bh			4.6	− 4.4
4			3.3	− 3.1
	850'	S of	Main st	
E 2			6.5	− 6.3
bh			5.1	− 4.9
4			3.8	− 3.6
+5'			3.5	− 3.3
	875'	S of	Main	
E 2			6.6	− 6.4
bh			5.5	− 5.3
4			4.2	− 4.0

0.23

	900'	S of	Main st	
E 2			7.2	− 7.0
bh			6.3	− 6.1
4			4.5	− 4.3
+10			1.6	− 1.4
	925'	S of	Main st	
E 2			7.6	− 7.4
bh			6.4	− 6.2
4			5.2	− 5.0
+12'			3.5	− 3.3
	950'	S of	Main	
E 2			7.6	− 7.4
bh			6.6	− 6.4
4			5.5	− 5.3
6			3.8	− 3.6
+8			3.5	− 3.3

0.23

	975'	S of	Main st	
E2			7.6	−7.4
bb			7.2	−7.0
4			6.1	−5.9
b			5.0	−4.8
+12'			4.0	−3.8
	1000'	S of	Main st	
E2			7.7	−7.5
bb			7.4	−7.2
4			6.4	−6.2
b			4.8	−4.6
+10			3.0	−2.8
	1025'	S of	Main	
E2			7.7	−7.5
bb			7.3	−7.1
4			6.9	−6.7
b			5.8	−5.6
4			4.1	−3.9
bb			1.2	−1.0

0.23

TP	6.46	0.66	6.03	−5.80	
	1050'	S of	Main st		
E2			8.1		−7.4
bb			7.9		−7.2
4			7.6		−6.9
b			6.7		−6.0
4			5.1		−4.4
bb			3.9		−3.2
+10'			3.4		−2.7
	1075'	S of	Main st		
E2			8.2		−7.5
bb			8.0		−7.3
4			7.7		−7.0
b			7.0		−6.3
4			6.2		−5.7
bb			4.9		−4.2
+14'			3.4		−2.7

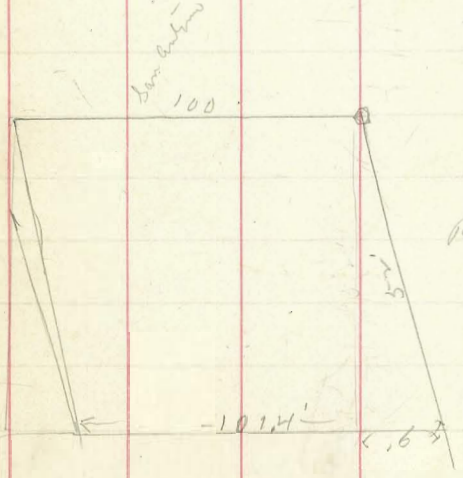
0.66

	1085	S of	Main st		
W 2			3.5		−2.8
	1100	S of	Main		
W 2			4.0		− 3.3
bb			5,9		−5.2
"			7,1		− 6.4
b			7,6		− 6.9
"			7,8		−7.1
bb			8,0		− 7.3
E 2			8,3		− 7.6
	1156'5 of } main = n d Rodgers				
	1139'5 of }				
E 2			8,6		− 7.9
bb			8,2		− 7.5
"			8,0		− 7.3
b			7,9		−7.2
"			7,7		− 7.0
bb			7,0		− 6.3
W 2			5-3		− 4.6

0.66 San Antonio

n bb of Rodgers S-2

W 2		5,6	−4.9
bb		6,8	− 6.1
"		7,5	− 6.8
b		7,7	− 7.0
"		8,0	− 7.3
bb		8,2	− 7.5
E 2		8,6	− 7.9



0.66

N ¼ of Rodgers

W2	5.9		-5.2
bb	7.0		-6.3
y	7.4		-6.7
b	7.8		-7.1
g	8.0		-7.3
bb	8.4		-7.7
E2	8.6		-7.9

Center of Rodgers

W2	6.0		-5.3
bb	7.0		-6.3
y	7.4		-6.7
b	7.8		-7.1
g	8.0		-7.3
bb	8.2		-7.5
E2	8.6		-7.9

0.66 San Antonio

S ¼ of Rodgers

W2	6.0		-5.3
bb	7.0		-6.3
y	7.4		-6.7
b	7.7		-7.0
g	8.0		-7.3
bb	8.2		-7.5
E2	8.6		-7.9

S bb of Rodgers

W2	6.2		-5.5
bb	7.0		-6.3
y	7.5		-6.8
b	7.7		-7.0
g	8.0		-7.3
bb	8.2		-7.5
E2	8.6		-7.9

		0.66			
	S Line of		Rodgers		
WL			6,3		-5.6
bb			7,0		-6.3
"			7,4		-6.7
b			7,8		-7.1
"			8,1		-7.4
bb			8,3		-7.6
EL			8,7		-8.0
	50'	S of	Rodgers		
EL			8,6		-8.0
bb			8,4		-7.7
"			8,0		-7.3
b			7,6		-6.9
"			7,3		-6.6
bb			6,9		-6.2
WL			6,5		-5.8
TP	4,28	1.63	3,31	-2,65	on Granite Post

		1.63	San Antonio		
	100'	S of	Rodgers		
WL			7,6		-6.0
bb			7,9		-6.3
"			8,2		-6.6
b			8,3		-6.7
"			8,4		-6.8
bb			8,6		-7.0
EL			8,8		-7.2
	150'	S of	Rodgers		
EL			8,9		-7.3
bb			8,6		-7.0
"			8,4		-6.8
b			8,0		-6.4
"			7,8		-6.2
bb			7,7		-7.1
WL			7,9		-6.3

		1,63			
	200'	S of	Rodgers		
WL			7,6		-6,0
bb			6,8		-5.2
"			6,8		-5.2
b			7,6		-6,0
"			7,9		-6.3
bb			8,1		-6.5
EL			8,4		-6.8
	250'	S of	Rodgers		
EL			5,3		-3.7
bb			5,0		-3.4
"			5,5		-3.9
b			7,4		-5.8
"			7,4		-5.8
bb			7,4		-5.8
WL			4,5		-2.9

		1,63	San Antonio		
	300'	S = N L	Quadrangle (50')		
WL			4,5		-2.9
bb			6,7		-5.1
"			7,0		-5.4
b			7,3		-3.7
"			7,0		-5.4
bb			7,0		-5.4
EL			6,7		-5.1
	N bb of				
EL			7,1		-5.5
bb			7,0		-5.4
"			7,0		-5.4
b			7,2		-5.6
"			7,0		-5.4
bb			6,6		-5.0
WL			5,0		-3.4

1.63

N ¼ of Qualhoogt

Wt			5,3		-3.7
bl			6,3		-4.7
y			6,6		-5.0
b			7,3		-5.7
y			7,0		-5.4
bl			7,0		-5.4
Et			7,1		-5.5

Centre of Qualhoogt

Et			7,2		-5.6
bl			7,1		-5.5
y			7,1		-5.5
b			7,2		-5.6
y			6,6		-5.0
bl			6,6		-5.0
Wt			5,3		-3.7

1.63 San Antonio

S ¼ of Qualhoogt

Wt			5,2		-3.6
bl			6,6		-5.0
y			6,5		-4.9
b			6,7		-5.1
y			7,0		-5.4
bl			7,0		-5.4
Et			7,2		-5.6

S bk of Qualhoogt

Et			7,2		-5.6
bl			7,0		-5.4
y			7,0		-5.4
b			6,8		-5.2
y			6,5		-4.9
bl			6,7		-5.1
Wt			5,2		-3.6

		163			
	S S of Qualtrough				
WS			5,2		-3.6
bh			6,6		-5 0
"			6,3		-4.7
b			6,7		-5.1
"			7,0		-5.4
bh			7,0		-5.4
ES			7,0		-5.4
	25'	S of Qualtrough			
WS			4,0		-2.4
bh			6,2		-4.6
	50'	S of Qualtrough			
ES			6.0		-4.4
bh			5,3		-3.7
"			4,5		-2.9
b			4,4		-2.8
"			5,6		-4.0
bh			6.0		4.4

		163		San Antonio	
	75'	S of	Qualtrough		
ES			3,8		-2.2
bh			4,5		-2.9
"			5,1		-3.5
b			6,5		-4.9
"			6,0		-4.4
bh			2,3		-0.9
	100'	S of	Qualtrough		
ES			4,8		-3,2
bh			6,4		-4.8
"			6,0		-4.4
b			5,0		-3.4
	150	S of	Qualtrough		
ES			6,2		-4.6
	200'	S of			
ES			6,2		-4.6
	250'	S of			
ES			6,2		-4.6
	300'	S = ns			
ES			2,5		-0.9
TP	12,28	9,99	3,92	-2,29	

		999			
	50'	S of	Qualhough		
WL			0.7		9.3
	75'	S of	Qualhough		
WL			0.6		9.4
	100'	S of	Q —		
WL			1.0		9.0
bb			5.7		4.3
4			8.0		2.0
	125'	S of	Q		
WL			0.6		9.4
bb			3.3		6.7
4			6.0		4.0
b			12.0		-2.0
4			13.6		-3.6
bb			14.4		-4.4
EL			14.6		-4.6

		999		San Antonio	
	150'	S of	Qualhough		
WL			0.0		10.0
bb			3.2		6.8
4			6.6		3.4
b			11.4		-1.4
4			12.7		-2.7
bb			13.8		-3.8
EL			14.6		-4.6
	200'	S of	Q —		
WL			0.4		9.6
bb			3.2		6.8
4			5.8		4.2
b			8.6		1.4
4			11.1	POSTED	-1.1
bb			13.6		-3.6
EL			14.6		-4.6

		9.99			
	250'	S of	Qu although		
WL			1.5		8.5
bh			3.4		6.6
4			5.8		4.2
b			8.6		1.4
4			10.3		-0.3
bh			12.1		-2.1
EL			14.6		-4.6
	300'	S of = N L of	Perry st (50')		
EL			11.0		-1.0
bh			10.0		0.0
4			8.2		1.8
b			7.1		2.9
4			5.2		4.8
bh			3.0		7.0
WL			0.0		10.0
TP	3.91	11.94	1.96	8.03	

		11.94		San Antonio	
	N bb of Perry st				
WL			1.6		10.3
bh			4.5		7.4
4			6.3		5.6
b			8.3		3.6
4			9.8		2.1
bh			11.1		0.8
EL			12.6		-0.7
	N 1/4 of Perry st				
EL			12.3		-0.4
bh			10.9		1.0
4			10.0		1.9
b			8.0		3.9
4			6.2		5.7
bh			4.6		7.3
WL			1.5		10.4

11.94

Center of Perry

WL		1.6	10.3
bb		3.9	8.0
4		5.8	6.1
6		7.5	4.4
4		9.5	2.4
bb		10.6	1.3
EL		11.8	0.1

S 1/4 of Perry

EL		11.4	0.3
bb		10.5	1.4
4		8.9	3.0
6		7.0	4.9
4		5.5	6.4
bb		3.9	8.0
WL		1.4	10.5

S bb of Perry

WL		1.2	10.7
bb		3.1	8.8
4		4.8	7.1
6		6.9	5.0
4		8.6	3.3
bb		9.7	2.2
EL		11.0	0.9

S L of Perry 10

EL		10.6	1.3
bb		9.2	2.7
4		7.8	4.1
6		6.8	5.6
4		4.3	7.6
bb		2.8	9.1
WL		0.8	11.1
TP	5.33	16.63	0.64	11.30

1663

	50'	S of	Perry	
WL			3.2	13.4
bh			5.3	11.3
4			6.7	9.9
6			8.5	8.1
4			10.1	6.5
bh			11.4	5.2
EL			13.1	3.5
	100'	S of	Perry	
EL			11.2	5.4
bh			9.9	6.7
4			8.2	8.4
6			6.8	9.8
4			5.0	11.6
bh			3.1	13.5
WL			1.2	15.4

San Antonio

1663

	130'	S of	Perry 20	
WL			0.0	16.6
bh			1.2	15.4
4			2.8	14.8
6			4.6	12.0
4			6.4	10.2
bh			7.0	9.6
EL			8.5	8.1
	200'	S of	Perry	
EL			7.4	9.2
bh			6.1	10.5
4			4.7	11.9
6			3.6	13.0
TP	7.63	22.26	2.00	14.63
4			7.6	14.7
bh			6.6	15.7
WL			4.5	17.8

POSTED

2226

250' S of Perry st

W2	3.1	19.2
bb	4.4	17.9
y	6.0	16.3
b	7.6	14.7
y	8.6	13.5
bb	10.1	12.2
E2	11.4	10.9

300' S of = N 2 Cavens st (3-0')

E2	9.1	13.2
bb	8.2	14.1
y	6.8	15.5
b	5.4	16.9
y	4.2	18.1
bb	3.0	19.3
W2	1.4	20.9

2226 San Antonio

N bb of Cavens st

W2	1.4	20.9
bb	2.6	19.7
y	4.2	18.1
b	5.8	16.5
y	6.9	15.4
bb	8.1	14.2
E2	9.4	12.9

N 1/4 of Cavens st

E2	9.4	12.9
bb	8.1	14.2
y	6.6	15.7
b	3.4	16.9
y	4.0	18.3
bb	2.3	20.0
W2	1.3	21.0

22.26

Center of Avenue st.

W2		1.4	20.9
bk		2.4	19.9
4		3.7	18.6
b		5.5-	16.8
4		6.7	15.6
bk +12'		8.0	14.3
		8.7	13.6
E2		14.7	7.6

S 1/4 of Avenue st

E2 +8		20.8	1.5-
		8.7	13.6
bk		8.0	14.3
4		6.9	15.4
b		5.4	16.9
4		3.7	18.6
bk		2.2	20.1
W2.		1.4	20.9

22.26 San Antonio

S bk of Avenue st

W2		1.4	20.9
bk		2.5	19.8
4		4.5-	.8
b		7.1	15.2
4		9.5-	12.8
bk		9.7	12.6
+18'	Bank	9.3	13.0

S 2 of Avenue st

W2		2.3	20.0
bk		3.3	19.0
4		5.8	16.5
b		8.4	13.9
4		10.4	11.9
bk		12.0	10.3
+14'	Bank	11.8	10.5-

2226

	25'	Sq	Areas		
W2			7.8		12.3
bk			9.8		12.5
4			11.0		11.3
6			14.7		7.6
4			16.5		5.8
bk			22.5		-0.2
	50'	Sq	Areas		
W2			14		20.9
bk			2.8		19.5
4			4.3		18.0
6			5.5		16.8
4			7.0		15.3
bk			10.8		11.5
+5'	Bank		11.5		11.8
TP	6.98	25.21	4.03	18.23	

25.21 San Antonio

	100'	Sq	Areas	
W2			4.2	21.0
bk			5.4	19.8
4			6.2	19.0
6			7.6	17.6
4			8.6	17.6
+10'	Bank		9.3	15.9
	130'	Sq	Areas	
W2			5.0	20.2
bk			6.1	19.1
4			7.1	18.1
6			7.8	17.4
4	Bank		7.8	17.4
	180'	Sq	Areas	
W2			6.0	19.2
bk			6.9	18.3
4			8.0	17.2
6	Bank		9.0	16.2

POSTED

25-21

200' S of Owens

WL	6.3	18.9	
bb	7.5	17.7	
4	9.2	16.0	
6 Bank	16.0	9.2	

225 S of Owens

WL	6.4	18.8	
bb	7.9	17.3	
4 Bank	12.3	12.9	

250 S of Owens

WL	7.2	18.2	
bb	9.2	16.0	
+11	11.3	13.9	
1/4 Bank	18.3	6.9	

275' S of Owens

WL	7.0	18.2	
bb	8.6	16.6	
4 Bank	10.6	14.6	

25-21 San Antonio

300' S = N of Nichols st (50')

WL		7.6		17.6
+12'		8.2		17.0
bb		12.0		13.2
TP	6.23	23.47	7.97	17.24

N bb of Nichols st

WL	5.7		17.8
bb Bank	6.6		16.9

N bb of Nichols

WL	5.5		18.0
bb	6.6		16.9
+4' Bank	7.0		16.5

Center of Nichols

WL	5.3		18.2
bb Bank	6.6		16.9

S 1/2 of Nichols

WL	5.3		18.2
bb Bank	6.0		17.5

2347

	S bk of Nichols			
WL			3.2	18.3
+13'			6.1	17.4
bk			13.0	10.5
	S2 of Nichols			
WL			5.0	18.5
+14'			6.0	17.5
bk			10.0	13.5
	30'	S of	Nichols	
WL			5.0	18.5
	30'	S of	Nichols	
WL			12.3	11.2
TP	5.48	1713	11.82	11.65
bk			13.6	3.5
	75'	S of	Nichols	
WL			5.5	11.6
bk			12.6	4.5

1713 San Antonio

	100'	S of	Nichols	
WL			6.2	10.9
bk			14.0	3.1
	125'	S of	Nichols	
WL			4.0	13.1
bk			13.0	4.1
	150'	S of	Nichols	
WL			9.0	8.1
bk			15.2	1.9
	175'	S of	Nichols	
WL			12.5	4.6
bk			13.8	1.3
	200'	S of	Nichols	
WL			12.0	5.1
bk			18.2	-1.1
	225'	S of	Nichols	
WL			7.0	10.1
bk			15.0	2.1

1713

	250' S of Nichols				
WL			11.7		5.4
bk			18.8		-1.7
	275' S of Nichols				
WL			13.6		3.5
bk			18.3		-1.2
	300' S = WL of Nacogdoches St (30')				
WL			12.1		5.0
BM	1.22	8.69	9.66	7.47	BM check
TP	2.28	1.40	9.61	-.92	
	South bk of Owens St				
EL			3.4		-2.0
	S line of Owens St				
EL			3.6		-2.2
	25' S of Owens				
EL			4.4		-3.0
+10'			2.5		-1.1

1740

	50' S of Owens		
EL		4.6	-3.2
+8		3.6	-2.2
	100' S of Owens		
EL		6.6	-3.2
bk		4.5	-3.1
	150' S of Owens		
EL		8.6	-6.6
bk		6.0	-4.6
+12'		4.2	-2.8
	180' S of Owens		
EL		9.0	-7.6
bk		7.3	-5.9
4		4.6	-3.2
+10'		4.0	-2.6
	200' S of Owens		
EL		9.8	-8.4
bk		8.0	-6.6
4		5.8	-4.4
6		3.6	-2.2

140

225' S of Owens

E2	10.6	-8.6
bb	8.7	-7.3
4	6.8	-5.4
6	4.4	-3.0
+5	3.2	-1.8

250' S of Owens

E2	10.0	-8.6
bb	9.0	-7.6
4	7.4	-6.0
6	4.9	-3.5
+12	3.6	-2.2

275 S of Owens

E2	10.0	-8.6
bb	9.0	-7.6
4	8.0	-6.6
6	5.0	-3.6
+14'	3.4	-2.0

140

San Antonio

300' S = n 2 of Nichols st (50')

E2	10.0	-8.6
bb	9.00	-7.6
4	7.9	-6.5
6	5.7	-4.3
4	3.6	-2.2

n bb of Nichols

E2	10.0	-8.6
bb	9.5	-8.1
4	8.5	-7.1
6	5.8	-4.4
1/4	3.6	-2.2
+3'	2.8	-1.4

n 1/4 of Nichols

E2	10.5	-9.1
bb	9.5	-8.1
4	8.4	-7.0
6	6.0	-4.6
1/4	3.7	-2.3
+4'	3.0	-1.6

center of Nichols st

E2	10.5	-9.1
bb	9.6	-8.2
4	8.6	-7.2
6	6.2	-4.8
7	4.0	-2.6
+5'	3.0	-1.6

S 1/4 of Nichols st

E2	10.6	-9.2
bb	9.6	-8.2
4	8.7	-7.3
6	6.2	-4.8
7	4.0	-2.6
+5'	3.0	-1.6

S bk of Nichols st

EL	10,6	-9.2
bh	9,6	-8.2
4	8,6	-7.2
b	6,3	-4.9
4	4,1	-2.7
+8'	2,6	-1.2

S Line of Nichols st

EL	10,6	-9.2
bh	9,6	-8.2
4	8.8	-7.4
b	6.3	-4.9
4	4,3	-2.9
+8'	3,2	-1.8

30' S of Nichols

EL	10,4	-9.0
bh	9,4	-8.0
4	8.6	-7.2
b	6.5	-5.1
4	4.4	-3.0

50' S of Nichols

EL	10,0	-8.6
bh	9,00	-7.6
4	8.6	-7.2
b	6,2	-4.8
4	4.0	-2.6

75' S of Nichols

EL	9,8	-8.4
bh	9.0	-7.6
4	8.4	-7.0
b	6.0	-4.6
4	4.0	-2.6

100' S of Nichols

EL	9,6	-8.2
bh	8,8	-7.4
4	8,0	-6.6
b	5.7	-4.3
4	4.0	-2.6

125' S of Nichols

EL	9,4	-8.0
bh	8,7	-7.3
4	7.5	-6.1
b	4,9	-3.5
4	4,0	-2.6

150' S of Nichols

EL	9,2	-7.8
bh	8.5	-7.1
4	7,0	-5.6
b	5,0	-3.6
4	4.0	-2.6

175' S of Nichols

EL	8.9	-7.5
bh	8.3	-6.9
4	6.2	-4.8
b	4.3	-2,9
4	3.6	-2.2

200' S of Nichols

EL	8,7	-7,3
bh	7.7	-6.3
4	5.8	-4.4
b	4.0	-2,6
4	3,0	-1.6

POSTED

140

	225'	S of	Nichols	
EL			8.2	−6.8
bk			7.3	−5.9
4			5.5	−4.1
6			3.8	−2.4
4			2.8	−1.4
	250'	S of	Nichols	
EL			8.0	−6.6
bk			6.0	−4.6
4			4.5	−3.1
6			3.3	−1.9
4			3.6	−1.6
	275'	S of	Nichols	
EL			7.5	−6.1
bk			5.7	−4.3
4			4.1	−2.7
6			3.3	−1.9
4			3.6	−2.2

	1.22	8.69	7.47	Bm
	N of McCall St (50')			
WL		4.2		4.5
bk		9.2		−0.5
4		10.1		−1.4
6		10.2		−1.5
4		10.4		−1.7
bk		12.3		−3.6
EL		14.1		−5.4
	N bk of McCall			
EL		13.5		−4.8
bk		11.8		−3.1
4		10.2		−1.5
6		9.8		−1.1
4		9.5		−0.8
bk		8.7		0.0
WL		5.0		3.7

POSTED

N ¼ of Mc Call st

WL	5.0	3.7
bh	7.4	1.3
y	9.0	-0.3
b	9.7	-1.0
y	10.0	-1.3
bh	11.5	-2.8
EL	13.0	-4.3

Center of Mc Call st

WL	5.3	3.4
bh	8.4	0.3
y	9.0	-1.3
b	9.5	-0.8
y	10.3	-1.6
bh	11.2	-2.5
EL	13.0	-4.3

S ¼ of Mc Call st

WL	4.3	4.4
bh	8.4	0.3
y	9.0	-0.3
b	9.6	-0.9
y	10.0	-1.3
bh	11.1	-2.4
EL	12.0	-3.3

S bh of Mc Call

WL	2.2	6.5
bh	8.3	0.4
y	9.2	-0.5
b	9.5	-0.8
y	10.0	-1.3
bh	11.0	-2.3
EL	11.5	-2.8

S Line of Mc Call

EL	11.5	-2.8
bh	10.3	-1.6
y	10.0	-1.3
b	9.8	-1.1
y	9.1	-0.4
bh	8.0	.07
WL	1.8	6.9

Cross section of San antonio
Starting at South end

	0.91	18.23		17,32	BM Past Kellogue & San anton
	S Line of Kellogue (50')				
WL			4,0		14.2
bh			4,4		13.8
"			4,8		13.4
b			5,0		13.2
"			6,3		11.9
bl			6,8		11.4
EL			8,0		10.2
	50' S of Kellogue				
EL			7,9		10.3
bh			7,3		10.9
"			7,2		11.0
b			6,0		12.2
"			4,4		13.8
bl			4,0		14.2
WL			2,8		16,2

1823 San antonio

	100' S of Kellogue				
WL			3,2		15.0
bh			5,1		13.1
"			5,7		12.5
bl			6,5		11.7
"			7,7		11.5
bh			9,0		9.2
EL			9,4		8.8
	150' S of Kellogue				
EL			9,7		8.5
bh			9,4		8.8
"			8,3		9.9
b			6,9		11.3
"			6,1		12.1
bl			5,5		13.7
WL			4,0		14,2

1823

153' S on E =
178' S on W = } Government Reserve

WL	4,6	13.6
bb	5,8	12.4
y	6.1	12.1
b	6,9	11.3
y	8,6	9.6
bb	9,4	8.8
EL	9,7	8.5

S bb of Kellogue 24(50')

WL	3,8	14.4
bb	4,8	12.4
y	5.0	13.2
b	6,2	12.0
y	6,8	11.4
bb	7,4	10.8
EL	8,8	9.4

1823 San Antonio

S ½ of Kellogue

EL	8,7	9.5
bb	7,8	10.4
y	7,2	11.0
b	6,3	11.9
y	5,4	12.8
bb	4,8	13.4
WL	3,6	14.6

Center of Kellogue

WL	3,7	14.5
bb	4,8	13.4
y	5,5	12.7
b	6,5	11.7
y	7,2	11.0
bb	7,9	10.3
EL	8,6	9,6

1823

N ¼ of Kellogue st

E2	9,4		8.8
bb	8,5		9.7
4	7,0		11.2
b	6,3		11.9
4	5,8		12.4
bb	4,6		13.6
W2	3,7		14.5

N bb of Kellogue st

W2	3,8		14.4
bb	4,9		13.3
4	5,7		12.5
b	6,6		11.6
4	7,4		10.8
bb	8,8		9.4
E2	9,3		8.9

1823 San Antonio

E2 N line of Kellogue

E2	9,6		8.6
bb	8,8		9.4
4	7,7		10.5
b	6,8		12.4
4	5,9		12.3
bb	5,5		12.7
W2	4,1		14.1

50' N of Kellogue

W2	4,3		13.9
bb	5,8		12.4
4	6,5		11.7
b	7,1		11.1
4	8,6		9.6
bb	9,8		8.4
E2	10,6		7.6

		1823			
	100'	N of	Kellogue		
E2			10,8		7.4
bh			9,5		8.7
y			8,0		10.2
b			6,7		11.5
y			6,0		12.2
bh			6,0		12.2
W2			4,3		13.9
TP	3,23	15.54	5,90	12.33	
	150'	N of	Kellogue		
W2			3,1		12.5
bh			4,3		11.3
y			4,4		11.2
b			6,0		9.7
y			7,3		8.3
bl			8,0		7.6
E2			8,9		6.8

		15.56	San Antonio	
	200'	N of	Kellogue	
E2			10,3	5.4
bh			9,7	5.9
y			8,8	6.8
b			7,7	8.0
y			6,0	9.6
bh			5,3	10.3
W2			3,6	12.1
	250	N of	Kellogue	
W2			4,6	11.1
bh			5,6	10.8
y			6,8	8.7
b			8,7	7,0
y			9,8	5.8
bh			10,8	4.8
E2			11,4	4.2

POSTED

1556

300' N = S S Lawrence st (50')

ES			12,7		2,9
bb			11,2		4.4
"			9,0		6.6
b			6,8		8.8
"			6,0		9.6
bb			5,0		10.6
WS			4.6		11.0

S bb of Lawrence st

WS			4,1		11.5
bb			4,4		11.2
"			5,5		10.1
b			6,8		8.8
"			9,2		6.4
bb			11,3		4.3
ES			12,7		2.9

1556 San antonio

S 1/4 of Lawrence st

ES			12,9		2.7
bb			11,0		4.6
"			9,0		6.6
b			6,7		8.9
"			5,4		10.2
bb			4,5		11.1
WS			3,8		11.8

Center of Lawrence

WS			3,6		12,0
bb			4,6		11.0
"			5,6		10.0
b			6,8		8.8
"			8,8		6.8
bb			11,2		4.4
ES			12.8		2.8

POSTED

15-3-6

N 1/4 of Laurena st

E2			12,8		2.8
bb			10,6		5.0
4			8,5-		7.1
6			6,6		9.0
4			5,5-		10.1
bb			4,9		10.7
W2			4,4		11.2

N bb of Laurena

W2			4,1		11.5
bb			5,0		10.6
4			5,4		10.2
6			7,0		8.6
4			8,2		7.4
bb			10,8		4.8
E2			12,8		2.8

15-5-6

San Antonio

N line of Laurena

E2			12,8		4.8
bb			10,5-		5.1
4			8,0		6.6
6			7,3		8.3
4			5,7		9.9
bb			5,5		10.1
W2			4,5-		11.1
TP	320	1261	615-	9.41	
	50'	N of Laurena			
W2			1,5-		11.1
bb			3,8		8.8
4			5,4		7.2
6			5,7		6.9
4			6,8		5.8
bb			8,0		4.6
E2			10,1		2,5-

1261

	100'	Z of	Lawrence	
E2			12,9	−0,3
bb			10,6	2.0
y			9,6	3.0
b			8,8	3.8
y			6,0	6.6
bb			2,4	10.2
N2			0,0	12.6
	150'	Z of	Lawrence	
N2			0,0	12.6
bb			2,2	10.4
y			7,8	4.8
b			11,5	1.1
y			12,4	0.2
bb			13.2	−0.6
E2			14,6	−2.0

1261 San Antonio

	170'	Z of	Lawrence	
N2			1,4	11.2
bb			4,6	8.0
y			10,7	1.9
b			12,1	0,5
y			13,4	−0.8
bb			14.0	−1.4
E2			14.8	−2.2
	200'	Z of	Lawrence	
N2			1.1	11.5
bb			5.0	7.6
y			11,3	1.3
b			12,7	−0.1
y			13,3	−0.7
bb			13,7	−1.1
E2			13.7	−1.1

12.61

	225	N of	Lawrence		
WL			4,8		7,8
bh			9,0		3.6
y			11,5		1.1
b			12,7		-0.1
y			13,4		-0.8
bh			14.0		-1.4
EL			13.5		-0.9
	250'	N of	Lawrence		
WL			1,3		11.3
bh			4,3		8.3
y			13,2		-0.6
b			14,4		-1.8
y			14,6		-2.0
bh			14,5		-1.9
EL			15,1		-2.5

12.61 San Antonio

275' N of Lawrence

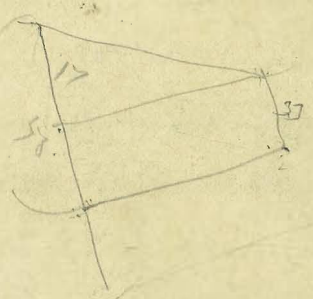
WL	9.1	3.5
bh	11,9	0.7
y	13,7	-1.1
b	14,0	-1.8
y	14,4	-1.8
bh	14,5	-1.9
EL	15,0	-2.4

300' N = SL of McCall (50')

WL	5,7	6.9
bh	12,4	0.2
y	13,0	-0.4
b	13,5	-0.9
y	13,8	-1.2
bh	14.8	-2.2
EL	15,4	-2.8
TP	5,13	7.48 top of Pipe

POSTED

mchob
mc ball
Lawrence
Kelogan
Jimmys



DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

For Single Track Embankment.

Roadway 14 feet wide. Side Slopes 1½ to 1.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	27
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

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