University Heights Sewer

83

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City Hall, San Diego, Cal.

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TRANSIT

F.B. 169

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

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

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TABLE FOR RUNNING ON SLOPES.

MICROFILMED
DEC 7 1964

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

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

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Minnesota Heights Sewers.

8/23/01 Levels along the center of Alley in Block 139, University Hts.
Rumsey, Level from Cleveland ave to Maryland St.
Williams, Rod
Falkenstein, Chain

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
B.M.	7.19	308.39			301.20	Plug. S.E. Lincoln and Hendricks
T.P.	4.12	312.12	0.39		308.00	
+75				2.8	309.3	Center Cleveland ave. (approx.)
+50				2.8	309.3	
2				3.8	308.3	
+50				6.8	305.3	
1				8.2	303.9	
+50				9.7	302.4	
0				9.3	302.8	Intersection center lines of Alleys
+50				8.1	304.0	in Block 139
1				8.5	303.6	
+50				9.7	302.4	
2				11.0	301.1	
+50				12.0	300.1	
+97						Center (Maryland) St. (approx)

301.20
7.19
~~0~~308.39
0.39
308.00
4.12
~~0~~312.12

8/23/61 × ✓ Levels along the center of from Van Buren ave. in Block 139

Sta.	B. S.	H. I.	F. S.	Rod	Elev.
		(312.12)			
+14				9.3	302.8
11				10.0	302.1
T. P.	3.60	303.76	11.96		300.16
+50				4.1	299.7
+40				5.4	298.4
+30				5.6	298.2
+15				4.8	299.0
10				5.7	298.1
+85				7.1	296.7
+50				9.1	294.7
+25				11.7	292.1
9				9.3	294.5
+78				4.1	299.7
+50				1.5	302.3
+25				0.9	302.9
8				1.4	302.4
+50				2.2	301.6
+40				3.4	300.4
T. P.	1.10	293.49	11.37		292.39
7				6.2	287.3
+86				10.1	283.4

alley bet Cleveland ave and Maryland St. to the intersection of E. and W. alley

Intersection of center lines of alleys in Block 139

~~0~~312.12
11.96
300.16 ✓
3.60
~~0~~303.76 ✓
11.37
292.39 ✓
1.10
~~0~~293.49 ✓

S. line Tyler

Alley bet. Cleveland and Maryland St.

Sta.	B.S.	H.I.	F.S.	Dist	Elev.
		(293.49)			
+80				11.8	281.7
+78				13.8	279.7
+75				12.4	281.1
+50				2.8	290.7
T.P.	11.15	304.53	0.11		293.38
+25				2.5	302.0
6				1.0	303.5
T.P.	11.27	314.69	1.11		303.42
+50				9.8	304.9
5				8.3	306.4
+75				8.6	306.1
+50				7.9	306.8
4				6.8	307.9
+77				6.5	308.2
+70				5.8	308.9
+50				5.2	309.5
+40				5.9	308.8
+20				5.0	309.7
3				5.7	309.0
+50				5.2	309.7
2				4.8	309.9

6+03 = N. line Tyler ct.

Stone, marked

~~6~~ 293.49
0.11
293.38 ✓
11.15
~~8~~ 304.53 ✓
1.11
303.42 ✓
11.27
~~8~~ 314.69 ✓

Alley bet. Cleveland and Maryland St.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
		(314.69)				
+50				4.6	310.1	
+22				5.1	309.6	
/				3.6	311.1	
B.M.	11.49	316.85	9.33		305.36	Plug N.W. Van Buren & X
T.P.	9.66	326.04	0.47		316.38	
+75				10.5	315.5	
+50				8.5	317.5	
+25				8.6	317.4	
0				6.4	319.6	S. line Van Buren Ave.
−20				5.8	320.2	
−40				4.5	321.5	Center " " "

314.69
9.33
305.36

314.69
9.33
305.36 Chk
11.49
316.85
0.47
316.38
9.66
326.04

8/23/6 Levels along the center of Tyler St. from Maryland X St. to Campus Ave.

315.01
7.16
307.85 B.M. 307.85 Chk

Sta.	B.S.	H.I.	F.S.	Rod	Elev.		
T.P.	2.66	306.08			303.42	Marked stone on alley line	303.42
							2.66
7+25.5				4.4	301.7	Center Maryland St.	~~0~~306.08
							11.77
6+80.7				4.9	301.2	East line Maryland St.	294.31
							0.16
+50				4.7	301.4		~~0~~294.47
							1.25
+20				3.6	302.5		293.22
							10.74
6				4.1	302.0		~~0~~303.96
							0.46
+75				5.2	300.9		303.50
							11.51
+50				8.7	297.4		~~0~~315.01
T.P.	0.16	294.47	11.77		294.31		
+25				2.4	292.1		
5				9.7	284.8		
+93				10.5	284.0		
T.P.	10.74	303.96	1.25		293.22		
+50				5.6	298.4		
+42				2.1	301.9		
T.P.	11.51	315.01	0.46		303.50		
4.				9.1	305.9		
B.M.				7.16	307.85	Plug S.W. Tyler & Cleveland	
+50				5.3	309.7		
+47				5.2	309.8		
+44				3.5	311.5		
	25.07		13.48				

Tyler St.

Sta.	B.S.	H.I.	F.S.	Rod	Elev	
		(315.01)				
+40				3.3	311.7	center Cleveland (approx)
+38				3.3	311.7	
+36				4.0	311.0	
T.P.	11.67	326.59	0.09		314.92	
3				10.4	316.2	East line Cleveland ave.
+50				3.5	323.1	
+29.5				1.5	325.1	center alley in Block 132
T.P.	11.75	338.33	0.01		326.58	
2				9.7	328.6	
+60				3.6	334.7	
+50				3.2	335.1	
1				0.7	337.6	
T.P.	10.35	348.15	0.53		337.80	
+60				9.1	339.1	
+56				7.9	340.3	West line Campus (approx)
+06				6.2	342.0	
B.M.			3.61		344.54	Plug S.E. Cajon and Campus
	33.77		0.24			

315.01
0.09
314.92
11.67
326.59
0.01
326.58
11.75
338.33
0.53
337.80
10.35
348.15
3.61
(Rod error of 0.10) 344.54
(344.63)

58.84
17.72
41.12

344.54
303.42
41.12

3/01 ✓ Levels along the center of University ave. (Fillmore) St., from El Cajon Ave. to Park Boulevard.

Sta	B. S.	H. I.	F. S.	Rd	Elev.	
B. M.	8.02	310.50			302.48	Plug, S. E. University & Fillmore
9+29.4				8.2	302.3	Bar line El Cajon Ave.
9				7.6	302.9	
+50				6.8	303.7	
8				6.0	304.5	
+67				5.0	305.5	Center Alley in Block 190
+50				4.3	306.2	
7				3.0	307.5	
+50				2.2	308.3	
6				3.5	307.0	
+50				7.0	303.5	
5				9.7	300.8	
+50				11.6	298.9	
T. P.	7.35	306.40	11.45		299.05	
4				10.9	295.5	
+50				14.0	292.4	
3				11.9	294.5	
+65				10.0	296.4	Center Alley in Block 193
+50				8.9	297.5	
+15				5.8	300.6	
2				5.9	300.5	

302.48
8.02
~~0~~310.50
11.45
299.05
7.35
~~0~~306.40

Fillmore St.

315.19
3.38
311.81 B.M.

Ste.	B.S.	H.I.	F.S.	Rd	Elev.	
		(306.40)				
+75				7.3	299.1	
+50				6.2	300.2	
1				2.2	304.2	
T.P.	8.87	315.19	0.08		306.32	
+75				7.9	307.3	
+50				6.6	308.6	
+05				3.6	311.6	
0				2.7	312.5	West line Park Boulevard
B.M.				3.38	311.81	Plug S.W. Park Boul. & Fillmore
T.P.	1.37	307.69	8.87		306.32	

~~0~~ 306.40
0.08
306.32
8.87
~~0~~ 315.19
8.87
306.32
1.37
~~0~~ 307.69

8/23/'01 × ✓ Levels along the center of alley through block 193

Sta.	B. S.	H. I.	F. S.	Bd	Elev.	
		(307.69)				
+39.7				11.3	296.4	Center Fillmore
7				10.2	297.5	
+50				8.7	299.0	
+08				7.5	300.2	N. line Blaine ave.
6				7.2	300.5	
+65				4.0	303.7	
+50				3.8	303.9	
+20				2.1	305.6	
5				1.3	306.4	
T. P.	11.30	318.37	0.62		307.07	
+50				10.9	307.5	
4				8.1	310.3	
+50				7.1	311.3	
3				5.3	313.1	
+50				3.9	314.5	
2				2.1	316.3	
T. P.	11.48	328.64	1.21		317.16	
+50				10.2	318.4	
1				6.4	322.2	
+50				4.0	324.6	
0				0.5	328.1	S. line Lincoln ave.

~~0~~ 307.69
0.62
307.07
11.30
~~0~~ 318.37
1.21
317.16
11.48
~~0~~ 328.64
6.56
B.M. 322.08 Chk

Plug S.W. of Lincoln and Center St. bet. Park Boul. and Cajon Ave.

8/24/01 X ✓
[illegible], Level
Wilbrenner, Rod
Falkenstein, Chain

Levels along the center of alley bet. El Cajon ave. Center St. from Fillmore Ave. to Campus ave.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
B.M.	9.54	312.02			302.48	Plug, S.E. University and Fillmore
2+45				6.6	305.4	Center Fillmore
2				5.2	306.8	
+50				4.2	307.8	
1				3.6	308.4	
+85				2.9	309.1	
+50				4.2	307.8	
+25				5.6	306.4	
0=+80				5.6	306.4	S. line Blaine ave.
+40				6.4	305.6	Center " "
+30				5.7	306.3	
6				6.9	305.1	W. line " "
+50				6.1	305.9	
5				5.0	307.0	
T.P.	11.07	318.31	4.78		307.24	
+50				10.2	308.1	
+15				10.5	307.8	
4				9.7	308.6	
+50				7.6	310.7	
3				6.4	311.9	
+50				5.9	312.4	

302.48
9.54
0312.02
4.78
307.24
11.07
0318.31

Alley East of El Cajon Ave.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.
		(318.31)			
2				6.4	312.1
+50				4.8	313.5
1				4.5	313.8
+50				3.1	315.2
0 +80				1.3	317.0
T.P.	11.30	328.96	0.65		317.66
+40				10.2	318.8
6				8.7	320.3
+50				5.6	323.4
5				3.5	325.5
+50				0.1	328.9
T.P.	11.62	340.02	0.56		328.40
4				5.6	334.4
+75				2.8	337.2
+50				1.4	338.6
3				0.1	339.9
T.P.	8.08	347.90	0.20		339.82
+50				5.6	342.3
2				4.6	343.3
+75				4.0	344.9
1 +50				4.4	343.5

~~0~~ 328.96
6.89
B.M. 322.07 Chk
Center St
S.W. Lincoln and St. bet.
Park Boul. and ~~Cajon ave~~
Univ Boul

S. line Lincoln Ave.

Center " "

N " " "

~~0~~ 318.31
0.65
317.66 ✓
11.30
~~0~~ 328.96 ✓
0.56
328.40 ✓
11.62
~~0~~ 340.02 ✓
0.20
339.82 ✓
8.08
~~0~~ 347.90

Alley East of El Cajon Ave.

344.63

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
		(347.90)				
1				4.1	343.8	
+75				3.6	344.3	
+50				4.2	343.7	
0				4.4	343.5	S. line Campus Ave.
−40				4.9	343.0	Center " "
B.M.			3.24		344.66	Plug S.E. Cajon and Campus

~~0~~ 347.90
3.24
B.M. 344.66
Chk

8/24/01 Levels along the center of St., and Georgia St., from alley bet. Park Boulevard and Indiana Ave. El Cajon ave. to N. line of City Park

Sta.	B.S.	H.I.	F.S.	Rd	Elev.
B.M.	1.39	345.10			343.71
T.P.	4.23	338.40	10.93		334.17
-75				13.5	324.9
-65				12.1	326.3
-40				10.0	328.4
0				7.1	337.3
T.P.	6.08	340.25	4.23		334.17
+37				6.6	333.6
+77				6.6	333.6
+87				6.3	333.9
1+37				6.2	334.0
+87				6.8	333.4
2+37				7.5	332.7
+87				7.9	332.3
3+25				9.3	330.9
+37				10.0	330.2
+67				10.6	329.6
+77				9.8	330.4
+97				8.0	332.2
4+17				7.2	333.0
+50				5.9	334.3

Nail in Elec. pole opp. Normal School

Center Cajon Ave.

S. line " "

N. line Howard St.

Center " "

S. line " "

343.71
1.39
~~0~~ 345.10
10.93
334.17
4.23
~~0~~ 338.40
4.23
334.17
6.08
~~0~~ 340.25

Alley bet. Park Boulevard W — Georgia St.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.
		(340.25)			
+70				4.9	335.3
1				5.5	334.7
+50				5.1	335.1
T.P.	6.50	341.71	5.04		335.21
2				6.9	334.8
+20				6.4	335.3
+35				4.6	337.1
+50				5.4	336.3
3				5.5	336.2
+50				5.6	336.1
4				5.1	336.6
+20				3.7	338.0
+50				4.5	337.2
5				4.7	337.0
+50				4.7	337.0
6				4.8	336.9
+40				4.8	336.9
=0 +80				4.7	337.0
+10				3.6	338.1
+50				5.0	336.7
7				4.9	336.8

N. line Polk St.
Center " "
S. line " "

~~0~~ 340.25
5.04
335.21
6.50
~~0~~ 341.71

Alley bet. Park Boulevard and Georgia St.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
		(341.71)				
+50				5.6	336.1	
B.M.				4.72	336.99	Pg., S.E. Park Boulevard and Polk
+65				5.4	336.3	
+75				4.5	337.2	
2				5.7	336.0	
+50				5.8	335.9	
T.P.	3.69	339.76	5.64		336.07	
3				3.4	336.4	
+50				4.2	335.6	
4				4.1	335.7	
+50				4.5	335.3	
5				4.6	335.2	
+50				4.4	335.4	
6				4.9	334.9	N. line Lincoln St.
+40				4.8	335.0	center " "
+80				5.4	334.4	S. line " "
B.M.				8.16	331.60	Plug S.E. Park Boulevard and Lincoln
+50				5.4	334.4	
1				5.9	333.9	
+50				5.8	334.0	
2				5.4	334.4	

~~0~~ 339.76
8.16
331.60

~~0~~ 341.71
4.72
336.99

~~0~~ 341.71
5.64
336.07 ✓
3.69
~~0~~ 339.76 ✓

 Alley bet. Park Boulevard and Georgia St.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.
T.P.	2.80	337.30	5.26		334.50
+50				3.1	334.2
3				3.0	334.3
+50				3.6	333.7
4				4.1	333.2
+50				4.9	332.4
5				4.9	332.4
+25				6.7	330.6
+50				5.7	331.6
6				5.7	331.6
+40				5.4	331.9
+80				5.9	331.4
0 +50				3.9	333.4
1				3.7	333.6
+25	8/27/01			3.8	333.5
T.P.	5.21	339.19	3.32		333.98
+57				6.1	333.1
2				6.3	332.9
+50				7.6	331.6
3				10.0	329.2
T.P.	1.81	329.37	11.63		327.56

Stone 1+50 Barn

~~0~~339.76
5.26
334.50
2.80
~~0~~337.30
3.32
333.98
5.21
~~0~~339.19
11.63
327.56
1.81
~~0~~329.37

Alley bet. Park Boulevard and Georgia

Sta.	B.S.	H.I.	F.S.	Dist.	Elev.	
		(329.37)				
+50				2.7	326.7	
4				5.7	323.7	
+50				7.9	321.5	
5				6.3	323.1	
+50				7.3	322.1	
6				10.4	319.0	
T.P.	0.58	318.02	11.93		317.44	
+42.2				2.0	316.0	N. Lina Robinson
+50				2.7	315.3	
B.M.				1.91	316.11	Plug N.E. Alley and Robinson
+73				4.2	313.8	
+77				8.6	309.4	
+95				9.1	308.9	6+84.2 Center Robinson
7				5.9	312.1	
+07				3.8	314.2	
+17				4.1	313.9	
+24				7.2	310.8	
+50				8.4	309.6	
8				9.4	308.6	
+50				10.0	308.0	
9				10.3	307.7	

318.02
1.91
B.M. 316.11

~~6~~ 329.37
11.93
317.44 ✓
0.58
~~6~~ 318.02 ✓

Alley bet. Georgia and Indiana

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
		(318.02)				
+35				9.5	308.5	
+50				9.3	308.7	
10				8.7	309.3	
+50				7.0	311.0	
11				6.8	311.2	
T.P.	1.75	313.44	6.33		311.69	
+50				2.7	310.7	
12				3.0	310.4	
+50				3.6	309.8	
13				4.5	308.9	
+50				3.8	309.6	
+95				4.1	309.3	
14				3.4	310.0	
+39				4.1	309.3	Center Cypress
+50				4.3	309.1	
+79				4.7	308.7	S. line "
15				4.5	308.9	
+30				5.4	308.0	
+50				4.7	308.7	
+72				6.1	307.3	
+87				5.1	308.3	

~~0~~ 318.02
6.33
311.69
1.75
~~0~~ 313.44

Sta.	B.S.	H.I.	F.S.	Rod	Elev.
		(313.44)			
16				6.2	307.2
+07				6.4	307.0
+17				5.7	307.7
+50				7.8	305.6
17				8.1	305.3
+50				9.5	303.9
T. P.	1.60	305.69	9.35		304.09
18				2.8	302.9
+50				4.3	301.4
19				8.6	297.1
T. P.	1.26	295.11	11.84		293.85
+50				2.3	282.8
+68				8.5	286.6
T. P.	0.63	284.20	11.54		283.57
20				1.8	282.4
T. P.	0.62	273.39	11.43		272.77
+50				1.5	271.9
21				10.4	263.0
T. P.	0.11	261.60	11.90		261.49
+50				9.1	252.5
+57				10.3	251.3

~~0~~ 313.44
9.35
304.09 ✓
1.60
~~0~~ 305.69 ✓
11.84
293.85 ✓
1.26
~~0~~ 295.11 ✓
11.54
283.57 ✓
0.63
~~0~~ 284.20 ✓
11.43
272.77 ✓
0.62
~~0~~ 273.39 ✓
11.90
261.49 ✓
0.11
~~0~~ 261.60 ✓

N. Ohio Myette

Alley bet. Georgia and Indiana

Sta.	B.S.	H.I.	F.S.	Rod	Elev.
B.M.				5.39	256.21
T.P.	0.27	250.03	11.84		249.76
+97				3.3	246.7
22				5.5	244.5
+32				10.4	239.6
+50				11.9	238.1
23				14.0	236.0
+50				12.0	238.0
24				5.8	244.2
T.P.	10.65	255.43	5.25		244.78
+50				3.8	251.6
+65				2.5	252.9
T.P.	11.94	266.57	0.80		254.63
+81				10.5	256.1
25				4.4	262.2
+10				2.1	264.5
T.P.	10.57	275.44	1.70		264.87
+37				9.0	266.4
+77				6.7	268.7
B.M.			7.13		268.31

261.60
5.39
B.M. 256.21

Plug N.E. Alley and Myrtle
Stake
Center Myrtle

261.60
11.84
249.76 ✓
0.27
250.03
5.25
244.78
10.65
255.43
0.80
254.63
11.94
266.57
1.70
264.87
10.57
275.44
7.13
268.31 ✓

N line Park St.
Center " "
Plug N.W. Alley and Park St.

8/[illegible]/61 ✗ ✓ Levels along the center of Alley bet. Georgia and Florida St., from the E. and W. Alley in Block 130, to Park St.

Ramsey, Level
William, Rod
Falkenstein, Chain

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
B.M.	1.45	345.16			343.71	Nail in Elec. Pole opp. Normal school
T.P.	0.38	333.89	11.65		333.51	
T.P.	0.40	322.56	11.73		322.16	
T.P.	2.85	313.47	11.94		310.62	
0				7.5	306.0	Center of E. and W. Alley
+37				7.8	305.7	
+77				6.3	307.2	
+87				6.5	307.0	
1+07				7.7	305.8	
+27				7.2	306.3	
+37				7.7	305.8	
+57				9.2	304.3	
+72				9.0	304.5	
+87				10.2	303.3	N. line Howard ave
2+07				11.1	302.4	
+27				10.4	303.1	Center " "
=0 +67				10.2	303.3	S. " "
+50				10.8	302.7	
+90				11.1	302.4	
T.P.	6.78	308.61	11.64		301.83	
1				7.4	301.2	

0 313.47
10.62
B.M. 302.85
Bldg. N.E. Howard and Alley

343.71
1.45
0 345.16 ✓
11.65
333.51 ✓
0.38
0 333.89 ✓
11.73
322.16 ✓
0.40
0 322.56 ✓
11.94
310.62 ✓
2.85
0 313.47 ✓
11.64
301.83 ✓
6.78
0 308.61 ✓

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
		(308.61)				
+19				8.5	300.1	
+30				10.1	298.5	
+50				9.3	299.3	
2				9.0	299.6	
+50				8.0	300.6	
3				7.2	301.4	
+50				6.8	301.8	
4				6.2	302.4	
+50				5.3	303.3	
5				4.6	304.0	
+50				3.9	304.7	
6				4.0	304.6	N. line Polk ave
+40				4.0	304.6	Center " "
+80				3.9	304.7	S. line " "
+50				3.8	304.8	
1				4.7	303.9	
T. P.	1.70	304.61	5.70		302.91	
+21				0.9	303.7	
+32				3.0	301.6	
+50				2.2	302.4	
+80				5.6	299.0	

~~0~~ 308.61
5.70
302.91 ✓
1.70
~~0~~ 304.61 ✓

Alley bet Georgia and Florida

Sta.	B.S.	H.I.	F.S.	Dist	Elev.	
		(304.61)				
2				5.6	299.0	
+25				8.7	295.9	
+50				11.3	293.3	
T.P.	2.07	294.81	11.87		292.74	
3				3.1	291.7	
+50				7.4	287.4	
4				8.0	286.8	
+50				8.4	286.4	
5				9.7	285.1	
+50				9.8	285.0	
6				9.9	284.9	N. line Lincoln ave.
+40				11.2	283.6	Center " "
+70				10.8	284.0	
+80				9.2	285.6	S. line " "
=0 B.M.				7.78	287.03	Plug S.W. Alley and Lincoln
+50				7.8	287.0	
+75				4.1	290.7	
1				3.2	291.6	
T.P.	11.52	305.53	0.80		294.01	
+50				9.4	296.1	
2				6.2	299.3	

~~0~~ 294.81
7.78
" m. 287.03

~~0~~ 304.61
11.87
292.74
2.07
~~0~~ 294.81
0.80
294.01
11.52
~~0~~ 305.53

Alley bet. Georgia and Florida

Sta.	B.S.	H.I.	F.S.	Rod	Elev.
		(305.53)			
+50				3.0	302.5
T.P.	11.53	316.22	0.84		304.69
+75				10.4	305.8
3				10.5	305.7
+50				9.8	306.4
+68				6.1	310.1
4				4.7	311.5
+30				4.0	312.2
+50				2.0	314.2
T.P.	10.47	326.29	0.40		315.82
5				11.7	314.6
+50				11.7	314.6
6				10.6	315.7
+40				8.6	317.7
=0 +80				4.5	321.8
B.M.				2.32	323.97
+25				1.5	324.8
T.P.	11.67	337.46	0.50		325.79
+50				8.8	328.7
1				5.4	332.1
+22				2.2	335.3

0 326.29
2.32
B.M. 323.97

0 305.53
0.84
304.69 ✓
11.53
0 316.22 ✓
0.40
315.82 ✓
10.47
0 326.29 ✓
0.50
325.79 ✓
11.67
0 337.46 ✓

N. line Garfield ave.
Center " "
S. line " "
Plug S.W. Alley and Garfield

Alley bet. Georgia and Florida

Sta.	B.S.	H.I.	F.S.	Rod	Elev.
		(337.46)			
+50				0.6	336.9
T.P.	6.84	343.95	0.35		337.11
2				4.8	339.1
+50				3.8	340.1
+75				3.6	340.3
3				4.1	339.8
+50				4.9	339.0
+65				5.4	338.5
4				12.2	331.7
T.P.	0.16	332.30	11.81		332.14
+25				4.2	328.1
+38				5.0	327.3
+50				7.6	324.7
T.P.	0.22	320.59	11.93		320.37
+44				1.4	319.2
5				4.5	316.1
+50				10.7	309.9
B.M.				8.32	312.27
T.P.	0.34	309.22	11.71		308.88
6				1.8	307.4
+08				1.9	307.3

Bing N.E. Robinson and Georgia

~~0~~ 320.59
8.32
B.M. 312.27

~~0~~ 337.46
0.35
337.11
6.84
~~0~~ 343.95
11.81
332.14
0.16
~~0~~ 332.30
11.93
320.37
0.22
~~0~~ 320.59
11.71
308.88
0.34
~~0~~ 309.22

Sta.	B.S.	H.I.	F.S.	Dist	Elev.
		(309.22)			
+17				4.7	304.5
+50				10.9	298.3
+55				11.8	297.4
T.P.	0.48	297.78	11.92		297.30
+60				3.9	293.9
+71				5.0	292.8
+76				7.6	290.2
+84				8.8	289.0
7				12.2	285.6
T.P.	0.53	286.41	11.90		285.88
+50				3.5	282.9
8				5.9	280.5
+50				8.9	277.5
9				10.9	275.5
T.P.	0.41	275.01	11.81		274.60
+50				3.7	271.3
10				9.0	266.0
T.P.	0.75	264.15	11.61		263.40
+50				3.5	260.6
+55				4.1	260.0
+65				8.1	256.0

Carter Robinson

~~0~~ 309.22
11.92
297.30 ✓
0.48
~~0~~ 297.78 ✓
11.90
285.88 ✓
0.53
~~0~~ 286.41 ✓
11.81
274.60 ✓
0.41
~~0~~ 275.01 ✓
11.61
263.40 ✓
0.75
~~0~~ 264.15

Allay bet, Georgia and Florida

Sta.	B.S.	H.I.	F.S.	Pod	Elev.	
		(264.15)				
11				7.7	256.4	
+50				9.9	254.2	
12				10.6	253.5	
T.P.	0.58	253.14	11.59		252.56	
+50				2.1	251.0	
13				7.3	245.8	
+30				9.4	243.7	
+50				9.1	244.0	
14				6.8	246.3	
+19				3.7	249.4	
+44				2.9	250.2	Center Cypress
+50				2.2	250.9	
T.P.	5.78	257.93	0.99		253.15	
B.M.				4.31	253.62	Plug. S.E. Allay and Cypress
+83				2.7	255.2	
15				2.1	255.8	
+50				1.5	256.4	
16				3.1	254.8	
+50				5.9	252.0	
17				8.2	249.7	
+50				10.3	247.6	

0 257.93
4.31
B.M. 253.62

0 264.15
11.59
252.56
0.58
0 253.14
0.99
252.15
5.78
0 257.93

Alley bet. Georgia and Florida

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
T.P.	0.51	246.55	11.89		246.04	
18				1.1	245.4	
+50				3.5	243.0	
19				5.7	240.8	
+50				8.4	238.1	
20				8.9	237.6	
+50				8.8	237.7	
21				8.9	237.6	
+50				9.3	237.2	
B.M.				11.94	234.61	Plug N.E. Alley and Myrtle
22 +02				9.6	237.0	Center Myrtle
+50				11.2	235.3	
T.P.	1.27	237.37	10.45		236.10	
23				4.1	233.3	
+50				4.8	232.6	
24				4.0	233.4	
+46				4.8	232.6	
+50				5.4	232.0	
25				8.1	229.3	
+39				10.7	226.7	N. line Park St.
+79				17.3	220.1	Center " "

~~0~~ 246.55
11.94
B.M. 234.61

~~0~~ 257.93
11.89
246.04
0.51
~~0~~ 246.55
10.45
236.10
1.27
~~0~~ 237.37
7.34
B.M. 230.03
Plug N.W. Alley & Park St.

8/[illegible]/01 × ✓ Levels along the center of Myrtle Ave., from Park Boulevard to Alabama St.

Ramsey; Level
William, Rod

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
B.M.	11.47	299.45			287.98	Plug. N.W. Myrtle, and alley bet. Park Boul. and (Herbert St.
-75				2.1	297.3	Center Park Boulevard
-50				2.3	297.1	
0				1.2	298.2	E. line " "
T.P.	8.20	306.42	1.23		298.22	
+50				6.9	299.5	
1				6.2	300.2	
+50				3.9	302.5	
+60				3.5	302.9	
2				3.0	303.4	
+50				3.0	303.4	
3				5.3	301.1	W. line Indiana St.
+40				10.0	296.4	Center " "
T.P.	0.61	295.49	11.54		294.88	
+67				1.8	293.7	
+80				4.2	291.3	E. line " "
=0 T.P.	1.05	284.73	11.81		283.68	
+50				6.9	277.8	
T.P.	0.96	273.69	12.00		272.73	
+75				4.9	268.8	
+85				6.7	267.0	

287.98
11.47
0299.45
1.23
298.22
8.20
0306.42
11.54
294.88
0.61
0295.49
11.81
283.68
1.05
0284.73
12.00
272.73
0.96
0273.69

Myrtle Ave.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.
T.P.	3.33	265.14	11.88		261.81
1				6.5	258.6
T.P.	3.32	257.07	11.39		253.75
+35				13.7	243.4
+40				16.1	241.0
+50				10.3	246.8
B.M.	11.65	267.92	0.80		256.27
T.P.	10.88	278.26	0.54		267.38
2				6.5	271.8
+13				1.5	276.8
T.P.	11.78	289.66	0.38		277.88
+50				3.9	285.8
T.P.	3.47	292.12	1.01		288.65
+65				3.5	288.6
+75				1.9	290.2
3				1.2	290.9
+25				3.5	288.6
+40				6.2	285.9
T.P.	0.53	280.76	11.89		280.23
+80				3.0	277.8
+20				7.5	273.3

Center Alley (256.21)

along N.E. Myrtle, and alley bet. (Georgia and Indiana

N. line Georgia St.

Center " "

So. line " "

~~0~~ 273.69
11.88
261.81
3.33
~~0~~ 265.14
11.39
253.75
3.32
~~0~~ 257.07
0.80
256.27 Ch
11.65
~~0~~ 267.92
0.54
267.38
10.88
~~0~~ 278.26
0.38
277.88
11.78
~~0~~ 289.66
1.01
288.65
3.47
~~0~~ 292.12
11.89
280.23
0.53
~~0~~ 280.76

Myrtle Ave.

Sta.	B.S.	H.I.	F.S.	Rd	Elev.	
		(280.76)				
+30				11.3	269.5	
T.P.	0.57	269.54	11.79		268.97	
+50				5.5	264.0	
T.P.	0.96	258.51	11.99		257.55	
1				9.0	249.0	
T.P.	0.52	247.31	11.72		246.79	
+50				10.2	237.1	Center alley
T.P.	0.90	236.29	11.92		235.39	
B.M.				1.65	234.64	Plug N.E. Myrtle and alley
+65				2.3	234.0	
T.P.	0.46	225.03	11.72		224.57	
2				1.4	223.6	
T.P.	0.76	213.83	11.96		213.07	
+35				5.7	208.1	
+50				8.5	205.3	
3				12.4	201.4	W. line Florida
+05				15.2	198.6	
+25				13.8	200.0	
+40				13.7	200.1	Center "
+50				12.1	201.7	
+80				12.2	201.6	E. line "

234.61

236.29
1.65
B.M. 234.64 chk

280.76
11.79
268.97
0.57
269.54
11.99
257.55
0.96
256.51
11.72
246.79
0.52
247.31
11.92
235.39
0.90
236.29
11.72
224.57
0.46
225.03
11.96
213.07
0.76
213.83

Myrtle Ave.

Sta.	B. S.	H. I.	F. S.	Rod	Elev	
		(213.83)				
+50				8.7	205.1	
1				1.0	112.8	
T. P.	11.62	225.45	0.00		213.83	
+50				4.1	221.3	Center Alley
B. M.				3.22	222.23	Plug, N.W. Myrtle, and Alley bet.
T. P.	11.76	236.82	0.39		225.06	Florida and Alabama
2				9.4	227.4	
+50				3.3	233.5	
T. P.	7.35	241.86	2.31		234.51	
3				2.5	239.4	N. line Alabama

0 225.45
3.22
B.M. 222.23

0 213.83
0.00
213.83
11.62
0 225.45
0.39
225.06 ✓
11.76
0 236.82 ✓
2.31
234.51 ✓
7.35
0 241.86 ✓

8/29/01 ×
Anvers, Level
Williams, Rod
Falkenstein, Chain

Levels along the center of Cypress Ave., from Park Boulevard to Alabama St.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
B.M.	11.32	307.35			296.05	Plug, S.W. ~~Thornton~~ Now Pennsylvania Ave and, Alley bet. (Park Boul. and Herbert
-75				8.0	299.3	Center Park Boulevard
-38				7.5	299.8	
-17				5.0	302.3	
0				5.7	301.6	E. line " "
+35				4.8	302.5	
+50				3.2	304.1	
1				3.0	304.3	
+15				1.4	305.9	
+35				0.7	306.6	
+50				1.5	305.8	
2				4.1	303.2	
+50				5.0	302.3	
3				4.3	303.0	W. line Indiana St.
T.P.	8.83	312.19	4.01		303.36	
+20				9.0	303.2	
+40				7.8	304.4	Center " "
=0 +80				8.1	304.1	E. line " "
+15				6.1	306.1	
+50				6.7	305.5	
+86				5.4	306.8	

296.05
11.32
~~0~~ 307.37
4.01
303.36
8.83
~~0~~ 312.19

Cypress Ave.

Sta.	B.S.	H.I.	F.S.	Dist.	Elev.
		(312.19)			
1				4.0	308.2
+32				2.5	309.7
+50				2.8	309.4
+67				2.6	309.6
2				5.9	306.3
+10				6.7	305.5
T.P.	0.54	300.79	11.94		300.25
+50				2.8	298.0
3				11.5	289.2
T.P.	0.64	289.80	11.63		289.16
+40				6.6	283.2
T.P.	0.20	278.05	11.95		277.85
=0 +80				2.8	275.2
+50				9.9	268.1
T.P.	0.38	266.45	11.98		266.07
+70				0.7	265.7
1.				7.1	259.3
T.P	0.41	254.92	11.94		254.51
+50				4.4	250.5
B.M.				1.26	253.66
2				10.4	244.5

253.62

Center alley

W. side Georgia St.

Center " "

E. line " "

Chg. S.E. Cypress and Alley Int. Georgia and Florida

254.92
1.26
B.M. 253.66 chk

312.19
11.94
300.25
0.54
300.79
11.63
289.16
0.64
289.80
11.95
277.85
0.20
278.05
11.98
266.07
0.38
266.45
11.94
254.51
0.41
254.92

Cypress Ave.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
		(254.92)				
+25				12.0	242.9	
T.P.	0.48	243.50	11.90		243.02	
+50				3.5	240.0	
+81				5.6	237.9	
3				8.6	234.9	W. line Florida
+40				13.7	229.8	Center "
T.P.	0.87	232.41	11.96		231.54	
+80				8.8	223.6	E. line "
0						
+11				11.0	221.4	
+16				8.9	223.5	
+50				7.6	224.8	
+70				7.9	224.5	
+92				9.6	222.8	
1				11.4	221.0	
T.P.	2.64	223.11	11.94		220.47	Pg
+50				4.9	218.2	center Alley
+63				8.7	214.4	
2				8.7	214.4	
+50				6.4	216.7	
3				3.1	220.0	W. line Alabama

~~0~~ 254.92
11.90
243.02
0.48
~~0~~ 243.50
11.96
231.54
0.87
~~0~~ 232.41
11.94
220.47
2.64
~~0~~ 223.11

8/29/01
Rodney, Level
Williams, Rod
Falkenstein, Chain

Levels along the center of Alley bet. Florida and Alabama St., from the E. and W. Alley in block 129, to Park St.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.		
B.M.	0.47	303.32			302.85	Plug, N.E. Howard, and Alley	302.85
T.P.	0.87	296.36	7.83		295.49	bet. Georgia and Florida	0.47
0				5.5	290.9	center E. and W. Alley	~~0~~303.32
+37				5.5	290.9		7.83
+62				7.3	289.1		295.49
+87				6.6	289.8		0.87
1+12				7.0	289.4		~~0~~296.36
1+26				5.9	290.5		11.80
+37				6.9	289.5		284.56
+87				8.7	287.7	N. line Howard ave.	2.87
B.M.				8.29	288.07	Plug, N.E. Howard and Alley	~~0~~287.43
2+20				8.7	287.7		
+30				3.3	293.1	Old R.R. Embankment	
+36				3.6	292.8		
+47				9.7	286.7		
+67				10.6	285.8	S. line Howard ave.	
+50				11.0	285.4		
1				11.8	284.6		
T.P.	2.87	287.43	11.80		284.56		
+50				4.6	282.8		
2				7.5	279.9		

296.36
8.29
B.M. 288.07

Alley bet. Florida and Alabama

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
		(287.43)				
+21				10.0	277.4	
+24				8.5	278.9	
+50				8.3	279.1	
3				9.0	278.4	
+50				13.0	274.4	
+90				11.7	275.7	
4				10.0	277.4	
+33				7.9	279.5	
+50				8.6	278.8	
+60				9.5	277.9	
5				9.1	278.3	
+50				9.4	278.0	
+78				7.3	280.1	
6				9.2	278.2	N. line Polk Ave.
+40				9.1	278.3	center " "
+80				8.2	279.2	S. line " "
=0 B.M.	7.42	287.55	7.30		280.13	Plug, S.E. alley and Polk Ave.
+50				8.4	279.1	
1				9.1	278.4	
+50				8.4	279.1	
+77				6.9	280.6	

~~6~~ 287.43
7.30
280.13
7.42
~~0~~ 287.55

Alley bet. Florida & Alabama

Sta.	B.S.	H.I.	F.S.	Rod	Elev.
		(287.55)			
2				7.9	279.6
+25				7.1	280.4
+50				8.0	279.5
3				7.8	279.7
+50				8.2	279.3
4				8.6	278.9
+50				8.4	279.1
5				8.4	279.1
+50				9.6	277.9
6				10.6	276.9
B.M.	1.57	279.80	9.32		278.23
+40				4.0	275.8
=+80				5.1	274.7
0					
+50				7.2	272.6
T.P.	1.45	269.33	11.92		267.88
1				2.3	267.0
+50				7.3	262.0
+55				8.3	261.0
+64				12.4	256.9
+85				10.1	259.2
2				5.5	263.8

N. line Lincoln ave.
Plug N.E. Alley and Lincoln ave.
Center Lincoln ave.
S. line " "

~~0~~ 287.55
9.32
278.23
1.57
~~0~~ 279.80
11.92
267.88
1.45
~~0~~ 269.33

Alley, bet. Florida and Alabama

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
		(269.33)				
+50				2.4	266.9	
3				4.6	264.7	
T.P.	0.50	265.36	4.47		264.86	
+50				11.6	253.8	
T.P.	5.55	259.02	11.89		253.47	
4				8.7	250.3	
+29				9.6	249.4	
+36				11.2	247.8	
+50				10.9	248.1	
5				10.7	248.3	
+50				12.3	246.7	
+56				14.0	245.0	
+71				15.3	243.7	
+97				13.6	245.4	
T.P.	7.22	254.53	11.71		247.31	
6				9.5	245.0	N. line Mansfield ave.
+40				9.5	245.0	Center " "
+70				10.8	243.7	
=0 +80				12.8	241.7	S. line " "
+16				12.5	242.0	
+21				4.6	249.9	

~~0~~ 269.33
4.47
264.86
0.50
~~0~~ 265.36
11.89
253.47
5.55
~~0~~ 259.02
11.71
247.31
7.22
254.53

Alley bet. Florida and Alabama

Sta.	B. S.	H. I.	F. S.	Rod	Elev.	
T. P.	3.36	255.04	2.85		251.68	
+50				3.2	251.8	
1				4.0	251.0	
+50				5.5	249.5	
2				7.1	247.9	
+50				8.2	246.8	
3				9.1	245.9	
+50				9.5	245.5	
4				9.8	245.2	
+50				10.3	244.7	
T. P.	10.59	255.69	9.94		245.10	
5				10.1	245.6	
+50				5.6	250.1	
6				3.9	251.8	
+50				5.0	250.7	
T. P.	0.43	246.05	10.07		245.62	Stone
+82				5.8	240.2	Center Robinson
7				9.7	236.3	
+27				11.9	234.1	
+50				3.8	242.2	
+75				3.1	242.9	

254.53
2.85
251.68
3.36
255.04
9.94
245.10
10.59
255.69
10.07
245.62
0.43
246.05

Alley bet. Florida and Alabama

Sta.	B. S.	H. I.	F. S.	Rod	Elev.
		(246.05)			
8				5.8	240.2
T. P.	0.64	234.91	11.78		234.27
+50				0.7	234.2
+66				4.6	230.3
9				6.9	228.0
+20				7.3	227.6
+38				10.7	224.2
+50				11.1	223.8
+88				11.0	223.9
10				9.0	225.9
+25				7.5	227.4
+50				9.3	225.6
+72				10.5	224.4
T. P.	4.25	228.45	10.71	7.7	224.20
+89				7.9	220.5
11				8.3	220.1
+10				8.2	220.2
+15				5.6	222.8
+50				6.3	222.1
12				8.3	220.1
17				7.7	220.7

~~0~~246.05
11.78
234.27
0.64
~~0~~234.91
10.71
224.20
4.25
~~0~~228.45

Alley bet Florida and Alabama

Sta.	B. S.	H. I.	F. S.	Rod	Elev.
		(228.45)			
+34				5.3	223.1
+50				4.9	223.5
13				4.9	223.5
+50				3.7	224.7
+70				8.3	220.1
+86				5.4	223.0
14.				6.8	221.6
+43				10.2	218.2
+50				11.3	217.1
T. P.	6.58	223.44	11.59		216.86
+65				9.2	214.2
15				9.7	213.7
+50				11.0	212.4
16				11.3	212.1
+50				12.6	210.8
+75				13.0	210.4
+88				7.0	216.4
17				6.4	217.0
+50				5.9	217.5
18				5.0	218.4
+50				5.0	218.4

0223.44
2.93
Peg: 220.51 chk
T.P. on cypress St. line
(220.47)

0228.45
11.59
216.86
6.58
0223.44

Center Cypress

Sta.	B.S.	H.I.	F.S.	Grd	Elev.
		(223.44)			
19				6.3	217.1
+50				5.2	218.2
20				4.8	218.6
+50				4.2	219.2
T.P.	3.25	225.78	0.91		222.53
+75				3.2	222.6
21				1.8	224.0
+50				0.9	224.9
+63				1.1	224.7
22				4.0	221.8
+03				4.4	221.4
+20				7.0	218.8
T.P.	4.89	219.22	11.45		214.33
+50				6.5	212.7
+63				10.5	208.7
+87				9.1	210.1
23				4.3	214.9
+10				1.9	217.3
T.P.	11.08	229.59	0.71		218.51
+50				1.4	228.2
T.P.	5.40	234.99	0.00		229.59

~~0~~ 225.78
3.53
B.M. 222.25 Chk

Bldg. N.W. Myrtle and Alley
(222.23)

~~0~~ 223.44
0.91
222.53
3.25
~~0~~ 225.78
11.45
214.33
4.89
~~0~~ 219.22
0.71
218.51
11.08
~~0~~ 229.59
0.00
229.59
5.40
~~0~~ 234.99

Center Myrtle

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
		(234.99)				
+72				3.7	231.3	
24				6.0	229.0	
+22				6.4	228.6	
+50				4.7	230.3	
25				1.6	233.4	
+05				2.6	232.4	
T.P.	6.28	229.32	11.95		223.04	
+40				12.0	217.3	
+43				11.4	217.9	
T.P.	7.32	235.48	1.16		228.16	Marked Stone
+72				4.7	230.8	
+83				3.4	232.1	Center Park Ave.

~~0~~ 234.99
11.95
223.04
6.28
~~0~~ 229.32
1.16
228.16
7.32
~~0~~ 235.48

8/[illegible]/01
[illegible], Level
Williams, Rod
Falkinston, Chain

Levels along the Center of Robinson Ave., from Park Boulevard to Alabama Ave.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
B.M.	11.61	310.41			298.80	Plug. S.W. Park Boulevard and Robinson
-135				6.6	303.8	Spike = Sta. 8 on old line, (See Book 2)
-117				6.1	304.3	
-106				4.1	306.3	
-100				3.9	306.5	
-75				3.3	307.1	Center Park Boulevard
-50				0.4	310.0	
T.P.	9.15	319.56	0.00		310.41	
0				4.2	315.4	E. line Park Boulevard
+45				0.5	319.1	
T.P.	6.64	318.20	8.00		311.56	Packing House
+86				2.8	315.4	
+91				7.7	310.5	
1				7.7	310.5	
+50				9.5	308.7	Center Alley
+62				9.0	309.2	
+71				4.9	313.3	
2				4.4	313.8	
+50				2.8	315.4	
3				3.0	315.2	W. line Georgia
+40				4.8	313.4	center "

298.80
11.61
~~0~~310.41
0.00
310.41
9.15
~~0~~319.56
8.00
311.56
6.64
~~0~~318.20

Robinson Ave.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.
		(318.20)			
=0 +80				8.8	309.4
+35				10.4	307.8
T.P.	0.13	306.35	11.98		306.22
+50				1.6	304.8
+93				8.8	297.5
1				11.3	295.0
T.P.	0.33	294.70	11.98		294.37
+50				5.7	289.0
2				8.6	286.1
T.P.	0.61	283.75	11.56		283.14
+50				3.5	280.2
3				8.7	275.0
+40				9.4	274.3
=0+80				9.4	274.3
T.P.	0.14	272.62	11.27		272.48
+25				0.2	272.6
+50				3.8	268.8
+75				7.3	265.3
1				12.0	260.6
T.P.	1.36	262.39	11.59		261.03
+30				8.0	254.4

E. line Georgia

N. line Florida

Center "

E. line "

~~0~~ 318.20
11.98
306.22
0.13
~~0~~ 306.35
11.98
294.37
0.33
~~0~~ 294.70
11.56
283.14
0.61
~~0~~ 283.75
11.27
272.48
0.14
~~0~~ 272.62
11.59
261.03
1.36
~~0~~ 262.39

Robinson Ave.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
T.P.	0.58	251.52	11.45		250.94	
+50				11.3	240.2	Center Alley
T.P.	0.46	240.73	11.25		240.27	
+60				6.7	234.0	
2				8.7	232.0	
+12				8.7	232.0	
+24				11.0	229.7	
+50				9.6	231.1	
+64				6.7	234.0	
3				2.9	237.8	N. line Alabama

~~0~~ 251.52
5.87
Stone 245.64 Chk
T.P. on Alley line
(245.62)

~~0~~ 262.39
11.45
250.94
0.58
~~0~~ 251.52
11.25
240.27 ✓
0.46
~~0~~ 240.73 ✓

8/31/01 X ✓ Levels along the center of Park Ave, from 10th st. to Alabama Ave.
Pl. Lavel
Williams, Rod
Falkenstein, Chain

Sta.	B. S.	H. I.	F. S.	Rod	Elev.		
B.M.	7.15	277.19			270.04	Plug N.E Park (Upas) and 10th	270.04
−49.4				11.1	266.1	Center 10th St.	7.15
0				7.2	270.0	E. line " "	0 277.19
+50				3.8	273.4		0.91
1				3.5	273.7		276.28
+50				4.2	273.0		4.40
+65				6.3	270.9		0 280.68
+85				8.9	268.3		11.34
2 −				6.9	270.3		269.34
+08				{6.3	270.9	Park bank	2.36
				{5.2	272.0		0 271.70
+34				1.1	276.1		11.25
T.P.	4.40	280.68	0.91		276.28		260.45
+50				5.0	275.7		2.95
+75				3.5	277.2		263.40
3				4.3	276.4		
+50				3.8	276.9		
4				3.5	277.2		
+15				4.4	276.3		
T.P.	2.36	271.70	11.34		269.34		
T.P.	2.95	263.40	11.25		260.45		
+50				5.0	258.4		

Park Ave.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.
		(263.40)			
+60				11.8	251.6
+71				12.1	251.3
+80				8.4	255.0
T.P.	11.74	274.82	0.32		263.08
5+05				10.4	264.4
+20				1.6	273.2
T.P.	11.36	284.74	1.44		273.38
+28				8.0	276.7
=0 +60				5.7	279.0
+50				5.0	279.7
1				3.5	281.2
+50				3.3	281.4
2				2.9	281.8
+50				2.8	281.9
3				2.5	282.2
+50				2.7	282.0
4				2.6	282.1
T.P.	7.43	289.70	2.47		282.27
+50				8.1	281.6
5				7.7	282.0
+50				7.3	282.4

W. line Vermont

Center "

E. line "

~~0~~ 263.40
0.32
263.08
11.74
~~0~~ 274.82
1.44
273.38
11.36
~~0~~ 284.74
2.47
282.27
7.43
~~0~~ 289.70

Sta.	B.S.	H.I.	F.S.	Rd.	Elev.	
		(289.70)				
6				6.7	283.0	W. line Maryland
+40				6.6	283.1	Center "
+80				6.5	283.2	E. line "
=0						
+50				4.8	284.9	
1				3.2	286.5	
+50				2.5	287.2	
2				2.1	287.6	
+50				2.8	286.9	W. line Albert
+90				2.5	287.2	Center "
T.P.	10.66	298.31	2.05		287.65	
3+30				9.7	288.6	E. line "
=0						
+50				8.0	290.3	
1				7.5	290.8	
+50				6.5	291.8	
2				5.6	292.7	W. line Herbert
+40				5.2	293.1	Center "
+80				6.6	291.7	E. line "
=0						
+50				6.5	291.8	
+80				5.5	292.8	
1				5.5	292.8	
+50				5.8	292.5	

~~0~~ 289.70
2.05
287.65
10.66
~~0~~ 298.31

~~0~~ 289.70
5.80
B.M. 284.40 Chk
Plug, N.E. Park opp. Maryland
(284.40)

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
		(298.31)				
2				6.5	291.8	
+50				6.0	292.3	
+58				5.9	292.4	
3				4.6	293.7	
+10				3.7	294.6	
+50				3.6	294.7	
T.P.	8.67	303.31	3.67		294.64	
+70				7.4	295.9	
4				7.7	295.6	
=+08				7.6	295.7	N. line Park Boulevard
+58				7.2	296.1	
+83				6.7	296.6	Center " "
5+08				6.3	297.0	
=0+58				8.8	294.5	S. line " "
+25				10.0	293.3	
+50				9.4	293.9	
1				6.4	296.9	
+50				3.8	299.5	
2				1.9	301.4	
+50				2.3	301.0	
3				3.6	299.7	N. line Indiana

~~0~~ 298.31
3.67
294.64
8.67
~~0~~ 303.31

Park Ave.

Sta.	B.S.	H.I.	F.S.	Pod	Elev.	
		(303.31)				
+40				4.5	298.8	Center Indiana
=0 +80				6.2	297.1	E. line "
+50				11.9	291.4	
T. P.	0.88	292.31	11.88		291.43	
1				11.0	281.3	
T. P.	0.77	281.11	11.97		280.34	
+50				12.4	268.7	Center Alley
T. P.	2.47	271.79	11.79		269.32	
+75				8.6	263.2	
T. P.	0.82	260.72	11.89		259.90	
2				5.0	255.7	
T. P.	0.48	249.27	11.93		248.79	
+50				10.2	239.1	
T. P.	0.08	237.72	11.63		237.64	
T. P.	2.25	228.07	11.90		225.82	
3				6.1	222.0	
T. P.	7.84	224.15	11.76		216.31	W. line Georgia
+40				12.1	212.0	Center "
+45				12.8	211.3	
=0 +80				5.6	218.5	E. line "
+20				2.4	221.7	

0 271.79
3.47
B.M. 268.32 chk
Plug N.W. Alley and Park Ave.
(268.31)

0 303.31
11.88
291.43
0.88
0 292.31
11.97
280.34
0.77
0 281.11
11.79
269.32
2.47
0 271.79
11.89
259.90
0.82
0 260.72
11.93
248.79
0.48
0 249.27
11.63
237.64
0.08
0 237.72
11.90
225.82
2.25
0 228.07
11.76
216.31
7.84
0 224.15

Park ave.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.
T.P.	11.49	235.22	0.42		223.73
+50				3.8	231.4
T.P.	3.31	238.49	0.04		235.18
+70				1.8	236.7
+84				0.2	238.3
1				2.2	236.3
+20				6.7	231.8
T.P.	3.66	230.64	11.51		226.98
+45				7.9	222.7
+50				10.4	220.2
T.P.	0.75	219.48	11.91		218.73
T.P.	1.27	209.09	11.66		207.82
2				8.9	200.2
T.P.	3.17	200.71	11.55		197.54
+27				6.2	194.5
+50				7.2	193.5
3				6.6	194.1
+40				6.1	194.6
+60				7.1	193.6
+65				8.5	192.2
+77				8.3	192.4

~~0~~ 230.64
0.62
B.M. 230.02 Chk
Bldg. N.W. Alley and Park St.
(230.03)

Center alley

W. line Florida
Center "

~~0~~ 224.15
0.42
223.73
11.49
~~0~~ 235.22
0.04
235.18
3.31
~~0~~ 238.49
11.51
226.98
3.66
~~0~~ 230.64
11.91
218.73
0.75
~~0~~ 219.48
11.66
207.82
1.27
~~0~~ 209.09
11.55
197.54
3.17
~~0~~ 200.71

Park ave.

		(200.71)			
0 +80				6.8	193.9
+30				6.2	194.5
T.P.	11.72	212.09	0.34		200.37
+50				7.9	204.2
T.P.	11.68	222.68	1.09		211.00
+80				7.6	215.1
1				3.1	219.6
T.P.	11.67	233.94	0.41		222.27
+12				10.9	223.0
+22				9.2	224.7
+50				1.9	232.0
T.P.	11.37	245.06	0.25		233.69
2				2.9	242.2
T.P.	9.48	253.33	1.21		243.85
+50				7.1	246.2
3				3.2	250.1

E. line Florida

~~0~~ 233.94
5.83
Stone 228.11 Chk
T.P. on alley line
(228.16)

Center alley

W. line Alabama

~~0~~ 200.71
0.34
200.37
11.72
~~0~~ 212.09
1.09
211.00
11.68
~~0~~ 222.68
0.41
222.27
11.67
~~0~~ 233.94
0.25
233.69
11.37
~~0~~ 245.06
1.21
243.85
9.48
~~0~~ 253.33

8/31/61 ✗ ✓
Pinkham Level
Wadsworth, Rod
Falkenstein, Chain

Levels along the center of University (Garfield) Ave., from Park Boulevard to

B.M.	11.63	323.44			311.81	Plug S.W. Park Boulevard and Fillmore
-150				11.1	312.3	W. line Park Boulevard
-130				11.0	312.4	
-100				9.5	313.9	
-75				7.8	315.6	Center " "
-50				7.0	316.4	
-22				7.5	315.9	
0				5.8	317.6	E. line " "
+50				1.9	321.5	
T.P.	11.89	334.71	0.62		322.82	
1				7.4	327.3	
+50				2.8	331.9	
2				0.4	334.3	
T.P.	8.21	342.59	0.33		334.38	
+50				6.1	336.5	
3				4.5	338.1	W. line Georgia
+40				4.1	338.5	Center "
=0 +80				3.4	339.2	E. line "
+50				4.7	337.9	
+75				6.7	335.9	
1				12.1	330.5	

311.81
11.63
~~0~~ 323.44
0.62
322.82
11.89
~~0~~ 334.71
0.33
334.38
8.21
~~0~~ 342.59

T. P.	0.61	331.47	11.73		330.86	
+23				5.2	326.3	
T. P.	0.50	320.06	11.91		319.56	
+50	0.71	308.79	11.98	2.2	308.08	Center Alley
2				2.9	305.9	
+19				4.9	303.9	
+24				2.4	306.4	Old R.R. Embankment
+32				2.5	306.3	
+42				7.9	300.9	
+50				9.7	299.1	
T. P.	0.11	297.03	11.87		296.92	
3				5.8	291.2	W. line Florida
+40				12.1	284.9	Center "
T. P.	0.39	285.52	11.90		285.13	
+80				6.6	278.9	E. line "
=0						
T. P	0.51	274.15	11.88		273.64	
+35				1.4	272.7	
+50				5.0	269.1	
+60				7.0	267.1	
T. P.	0.27	263.00	11.42		262.73	
+90				8.5	254.5	

0 331.47
7.50
B.M. 323.97 chk
Plug. S.W. Alley and Garfield
(323.97)

0 342.59
11.73
330.86
0.61
0 331.47
11.91
319.56
0.50
0 320.06
11.98
308.08
0.71
0 308.79
11.87
296.92
0.11
0 297.03
11.90
285.13
0.39
0 285.52
11.88
273.64
0.51
0 274.15
11.42
262.73
0.27
0 263.00

T.P.	2.36	253.68	11.68		251.32	
1				3.5	250.2	
+19				7.7	246.0	
+26				11.6	242.1	
+33				11.5	242.2	Wash
+34				10.2	243.5	
+50				8.6	245.1	Center Alley
2				8.9	244.8	
+50				4.6	249.1	
+65				1.1	252.6	
T.P.	11.16	264.41	0.43		253.25	
3				4.3	260.1	N. line Alabama
+15				1.5	262.9	
T.P.	8.95	273.20	0.16		264.25	
+40				7.1	266.2	Center "
=0 +80				6.4	266.8	Co. line "
B.M.			2.85		270.35	Plug N.E. Garfield and Alabama

263.00
11.68
251.32
2.36
253.68
0.43
253.25
11.16
264.41
0.16
264.25
8.95
273.20
2.85
270.35

12/9/01 Alley bet North St and Park Boulevard

Jackson to Adams

Sta.	+	o	—	Rod	Elev.	
						Correct Elev 340.96
B.M.	8.04	349.00			340.96	Bldg. S.E. Jackson and Park Boulevard (Assumed)
+ 40				5.2	343.80	Center Jackson
0				5.2	343.80	N. line "
1				5.4	343.60	
2				4.6	344.40	House Right 2+50
3				4.5	344.50	
4				5.2	343.80	
5				5.2	343.80	
T.P.	8.87	353.01	4.86		344.14	
6				9.1	343.91	S. line Monroe
+ 40				6.2	346.81	Center "
0 + 80				8.1	344.91	N. " "
1				6.7	346.31	House Left Sta 1
2				6.3	346.71	
3				4.4	348.61	
4				2.8	350.71	
5				3.2	349.81	
6				2.4	350.61	S. line Madison
T.P.	7.73	358.66	2.08		350.93	
+ 40				7.2	351.46	Center "
0 + 80				8.1	350.56	N. line "

100.00
8.04
108.04
4.86
103.18
8.87
112.05
2.08
109.97
7.73
117.70

Sta.	+	o	—	Rod	Elev	
1				6.9	351.76	
2				6.8	351.86	
3				5.2	353.46	
4				5.0	353.66	House Right 3+50
5				3.4	355.26	
6				3.0	355.66	S line Adams
+40				3.8	354.86	Center "
B.M.	5.50	360.83	3.33		353.33	Plug East line alley and S side Adams

o 117.70
3.33
114.37
5.50
o 119.87

Alley bet Park Boulevard and Georgia St.
Adams to Center of Park Boulevard

Sta.	+	o	−	Rod	Elev
1		(360.83)			
2 − 40				5.3	355.53
3 0				6.5	354.33
4 1				5.0	355.83
5 2				6.6	354.23
6 3				6.4	354.43
4				6.2	354.63
5				7.2	353.63
6				8.8	352.03
T. P.	3.34	355.74	8.43		352.40
+ 40				3.3	352.44
= 0 + 80				4.6	351.14
1				3.5	352.24
2				5.5	350.24
3				6.6	349.14
4				6.5	349.24
5				8.5	347.24
6				9.1	346.64
+ 40				9.7	346.04
= 0 + 80				9.8	345.94
T. P.	5.22	350.72	10.24		345.50

Continued from last page ~~o~~ 119.87
8.43
111.44
Center Adams Closet Right 0 + 50 3.34
S. line " ~~o~~ 114.78
10.24
104.54
5.22
~~o~~ 109.76

N. line Madison

Center "

S. line "

N. line Monroe

Center "

S. " "

Sta.	+	⊙	−	Rod	Elev.
1		350.72		4.5	346.22
2				4.6	346.12
3				5.5	345.22
4				5.1	345.62
+77.6				5.6	345.12
5				6.0	344.72
6				7.4	343.32
7				8.7	342.02
+04				8.5	342.22
B.M.			9.77		340.95

77.6
224
1000

⊙ 109.76
9.77
chk 99.99

center Mission Ave.

Plug S.E. Park Boulevard and Jackson

Alley Bet. North st and Jackson to Adams

Campus ave

Sta.	+	⊖	—	Rod	Elev.	
B.M.	8.00	348.96			340.96	Plug S.E. Park Boul. and Jackson (assumed)
T.P.	6.38	354.28	1.06		347.90	Plug N.W. North st. and Jackson ave.
−40				6.3	347.98	Center Jackson
0				6.5	347.78	N line "
1				6.0	348.28	House N.E. Campus and Jackson
2				7.5	346.78	
3				7.7	346.58	House Right 2+50
4				7.0	347.28	
5				7.1	347.18	
6				6.9	347.38	S. line Monroe
+40				6.5	347.78	Center "
=0 +80				5.5	348.78	N. line "
T.P.	8.93	357.54	5.67		348.61	
1				8.7	348.84	
2				8.6	348.94	
3				7.0	350.54	
4				6.3	351.24	
5				5.8	351.74	House Left 5+50
6				4.7	352.84	S. line Madison
+40				4.3	353.24	Center "
=0 +80				5.1	352.44	N line "

(340.96)
100.00
8.00
⊖108.00
1.06
96.94
6.38
⊖103.32
5.67
97.65
8.93
⊖106.58

Sta.	+	0	−	Rod	Elev.	
T. P.	6.60	358.99	5.15		352.39	Plug West side of alley
						N line Madison
1				6.0	352.99	
2				5.6	353.39	
3				5.2	353.79	
4				5.6	353.39	
5				4.3	354.69	House Right 4+50
6				2.5	356.49	S. line Adams
+40				3.3	355.69	Center "
B.M.			8.35		350.64	Plug N. line Monroe and West side of alley but camp on Cleveland

0106.58
5.15
101.43
6.60
0108.03
8.35
99.68

Alley bet Campbell and Van Buren to Adams

Cleveland

Sta.	+	−	—	Rod	Elev.	
B.M.	4.77	357.67			347.90	Plug N.W. North and Jackson
T.P.	5.52	351.57	6.62		346.05	
				8.64	342.93	Plug East side of alley and N line Van Buren
−40				9.2	342.37	Center Van Buren
0				9.0	342.57	N line " "
1				7.8	343.77	House on Van Buren, New alley
2				5.7	345.87	
3				4.8	346.77	
4				3.9	347.67	House Right 4+50
5				5.6	345.97	
6				5.5	346.07	S. line Jackson
+40				4.5	347.07	Center "
+80				4.0	347.57	N line "
=0 T.P.	6.79	353.45	4.91		346.66	
1				7.2	346.25	
2				6.2	347.25	
3				6.0	347.45	
4				4.9	348.55	
5				3.8	349.65	
6				3.6	349.85	S. line Monroe
+40				2.7	350.75	Center "

(347.90)
96.94
4.77
−101.71
6.62
95.09
5.52
−100.61
4.91
95.70
6.79
−102.49

Sta.	∅	⊖	—	Rod	Elev.	
=0 +80				4.8	348.65	N. line Monroe
T.P.	6.80	355.92	4.33		349.12	
1				7.3	348.62	
2				6.6	349.32	House Right 2+50
3				5.3	350.62	
4				5.5	350.42	
5				6.1	349.82	
6				5.8	350.12	S. line Madison
+40				5.6	350.32	center "
=0 +80				5.5	350.42	N line "
T.P.	4.98	355.56	5.34		350.58	
1				4.8	350.76	
2				4.9	350.66	
3				5.8	349.76	
+54				7.2	348.36	Edge of Cañon

⊖ 102.49
4.33
98.16
6.80
⊖ 104.96
5.34
99.62
4.98
⊖ 104.60

Alley bet Cleveland and Maryland
Van Buren to Adams

Sta.	+	o	−	Rod	Elev.		
		(355.56)					
+50				11.5	344.06	Edge of Canon	−0 104.60
4				8.8	346.76		8.33
3				7.2	348.36		96.27
2				6.7	348.86		4.63
1				6.6	348.96		−0 100.90
0 = +80				6.8	348.76	N line Madison	
+40				7.4	348.16	Center	
6				7.4	348.16	S. line	
5				7.0	348.56		
4				8.6	346.76		
T. P.	4.63	351.86	8.33		347.23		
3				5.2	346.66		
2				5.8	346.06		
1				5.0	346.86		
0 = +80				5.9	345.96	N line Monroe	
+40				5.6	346.26	Center	
6				5.2	346.66	S line	
5				6.0	345.86		
4				6.9	344.96		
3				6.9	344.96		
2				5.4	346.46		

Sta.	+	⊖	−	Rod	Elev.	
1				7.3	344.56	
T. P.	3.07	349.14	5.79		346.07	
0 = +80				5.3	343.84	N line Jackson
+40				6.3	342.84	center "
6				8.0	341.14	S line "
T. P.	1.92	339.60	11.46		337.68	
5				6.2	333.40	
4				9.3	330.30	
3				9.3	330.30	
2				9.1	330.50	House Right 2+50
T. P.	5.72	333.62	11.70		327.90	
1				6.9	326.72	
0				11.0	322.62	N line Van Buren
−40				12.0	321.62	center " "
T. P.	11.47	342.66	2.43		331.19	
T. P.	6.45	346.83	2.28		340.38	
B.M.			3.92		342.91	Plug East side of Alley bet Campus and Cleveland, and North side van Buren

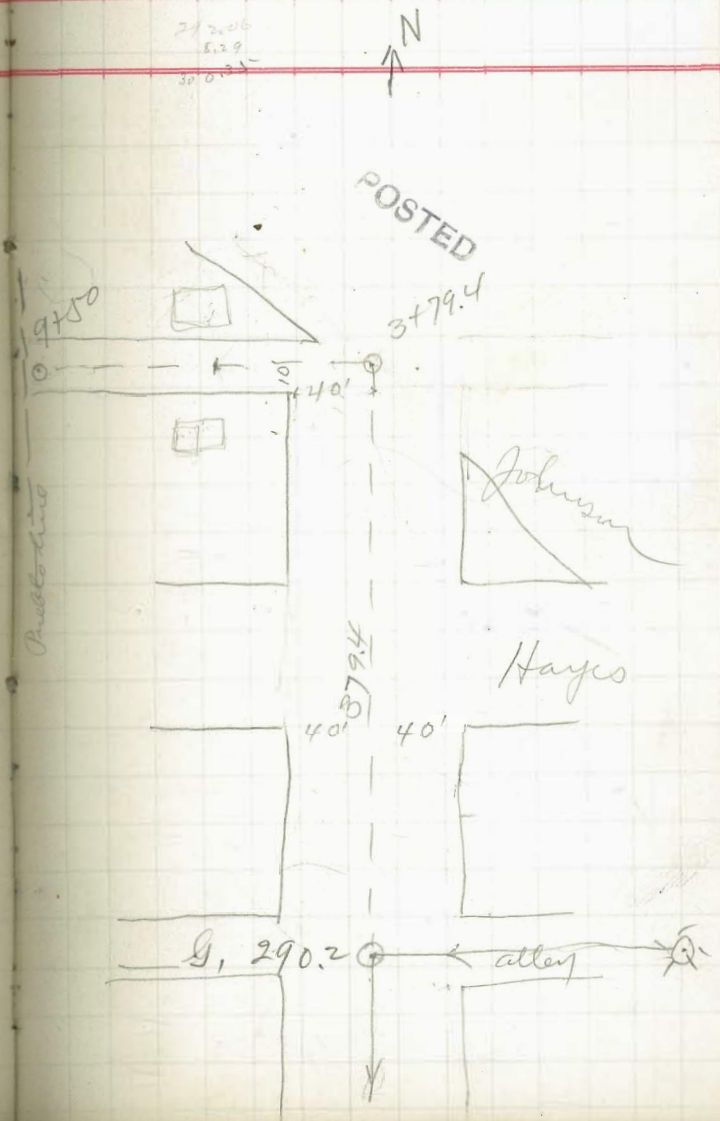
0100.90
5.79
95.11
3.07
098.18
11.46
86.72
1.92
088.64
11.70
76.94
5.72
082.66
2.43
80.23
11.47
091.70
2.28
89.42
6.45
095.87

Levels for Sewer on Vermont and alley bet. Hayes & Johnson

Feb. 26/09 Shields Barb Rogers

Sta.		H.I.	Rod	Elev.
0+00	M.H. center Vermont & alley bet. Lincoln & Hayes.	300.35	7.2	293.2
+50			7.3	293.1
1+00			7.3	293.1
+50			6.1	294.3
2+00			5.1	295.3
+50			4.4	296.0
3+00			4.0	296.4
+50			3.9	296.5
+79.4	M.H. center Vermont & alley bet Hayes & Johnson		4.9	295.5
4+00			4.5	295.9
+50			5.1	295.3
5+00			5.8	294.6
+50			7.5	292.9
6+00			9.0	291.4
+50			8.9	291.5
7+00			9.0	291.4
+50			9.6	290.8
8+00			10.7	289.7
+50			11.6	288.9
9+00			12.2	288.4
+50	F.J.		13.0	287.4

POSTED



B.M. 287.98	Plug. N.W. Alley bet. Park Boul. and Sherbet, and Myrtle st.				
B.M. 296.05	Plug. S.W. Thornton, and alley bet. Park Boul, and Herbert				
B.M. 298.80	Plug. S.W. Park Boul. and Robinson				
284.40	Plug N.E. Mary Lund and Aspas				
270.04	" N.E. Upas and 10th				

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

TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

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

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