

997

F.B. 997

400  
LEVEL

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.....	2½	21.....	49	41.....	95½
2.....	4½	22.....	51½	42.....	98
3.....	7	23.....	53½	43.....	100½
4.....	9½	24.....	56	44.....	102½
5.....	11½	25.....	58½	45.....	105
6.....	14	26.....	60½	46.....	107½
7.....	16½	27.....	63	47.....	109½
8.....	18½	28.....	65½	48.....	112
9.....	21	29.....	67½	49.....	114½
10.....	23½	30.....	70	50.....	116½
11.....	25½	31.....	72½	51.....	119
12.....	28	32.....	74½	52.....	121½
13.....	30½	33.....	77	53.....	123½
14.....	32½	34.....	79½	54.....	126
15.....	35	35.....	81½	55.....	128½
16.....	37½	36.....	84	56.....	130½
17.....	39½	37.....	86½	57.....	133
18.....	42	38.....	88½	58.....	135½
19.....	44½	39.....	91	59.....	137½
20.....	46½	40.....	93½	60.....	140

MICROFILMED

TABLE FOR RUNNING ON SLOPES.

DEC 10 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



# LEVEL BOOK

No. 400



FROM  
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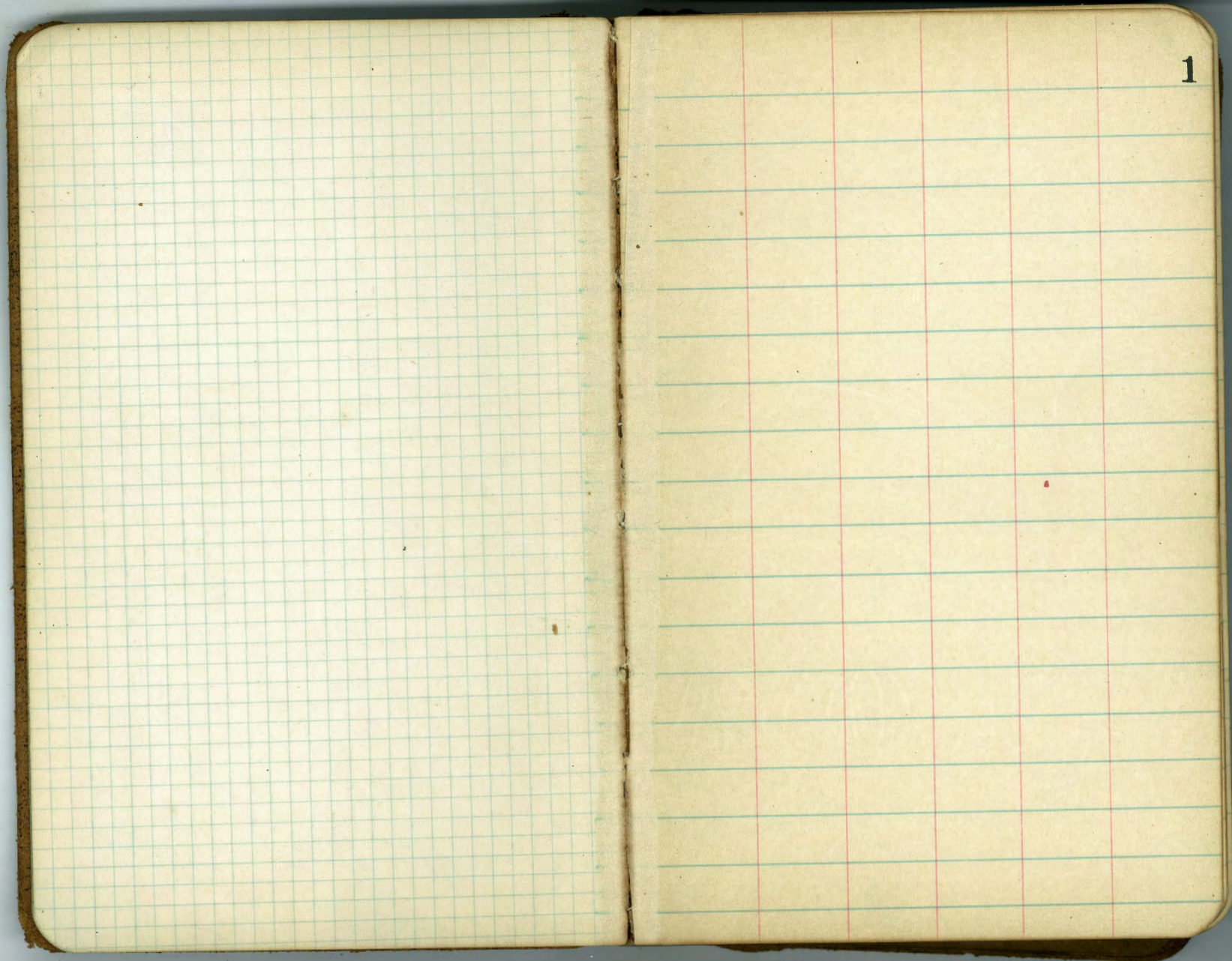
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SAN FRANCISCO

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SACRAMENTO



T	B	d	BM	-	B
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7473	13.0	100.0	50.516	2980	
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7238	12.5	127.0	31 <sup>st</sup> Boston	2.227	
------	------	-------	----------------------------	-------	--

3957	12.5	100.0	71486	6038	
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3083	10.5	100.0	31 <sup>st</sup> National	7575	
------	------	-------	------------------------------	------	--

2925	10.5	128.0		8064	
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Old BM 6178  
6.436  $\frac{21.40}{0.08}$

8064	10.5	128.0		3637	
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2077	10.5	100.0		9267	
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1317	10.5	35.0		6948	
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9517	10.0	125.0		0723	
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9085	10.5	81.0		1543	
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7857	10.0	103.0		1607	
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47882				45402	
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4242	12.0	150.0	59.774	7583	
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32<sup>nd</sup>

7583	12.0	150.0	National	4242	
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d Elev

60.015

60.020 BM 31<sup>st</sup> Grand  
+0.005 = error

59.774 32<sup>nd</sup> National SE corner hd RR Spike Pole grd

51.380 32<sup>nd</sup> Logan s corner hd RR Spike Pole grd

73.969

73.966 BM 31<sup>st</sup> Logan  
-0.003 = error

56.433 32<sup>nd</sup> Grand NW corner hd RR Spike conference Post

59.774

59.774 BM 32<sup>nd</sup> National  
±0.000 = error

t	B	d	BM	-	B	d	Elev
0.437	10.0	80.0	597746				9.893
0.160	10.0	60.0	32 <sup>nd</sup> National				9.708
0.215	10.0	55.0					9.227
0.168	10.0	55.0					9.010
0.157	11.0	55.0					9.144
0.072	11.0	141.0					7.598
7.598	11.0	141.0					0.072
9.094	11.5	55.0					0.108
9.000	11.5	55.0					0.161
9.240	11.5	55.0					0.226
9.739	11.5	60.0					0.163
9.783	11.5	80.0					0.357
55.665							55.667

N+E Precise Level #15105  
Florida Rod

National Ave Bridge Swoorhd Spille  
6.403 in 12x12 timber

59.774  
59.770 BM 32<sup>nd</sup> National  
-0.004 = error

December 22 1908

Wheeler - Observer  
Ellsworth - Rod  
Lambert - Chain

+	B	d	BM	-	B
0.693	13.0	178.0	315.907	6.837	
2.984	12.5	156.0	Park Blvd + Univ Ave	5.692	
4.330	12.0	150.0		6.834	
3.250	11.5	150.0		2.635	
4.004	11.0	105.0		6.208	
6.208	11.0	105.0		4.005	
2.632	11.0	150.0		3.250	
6.833	10.5	150.0		4.375	
5.756	10.0	156.0		2.993	
6.823	10.0	178.0		0.682 <sup>0</sup>	
43.513'				43.507'	
6.053	11.5	153.0	302.960	6.465	
1.637	11.0	100.0	Indiana + Cypress	9.287	
7.690 <sup>5</sup>				15.752'	

d Elev

Indiana + Cypress Sts NW cor inside property line  
302.964 Brass Plug in concrete monument

315.907'  
315.913' BM Park Blvd + Univ Ave  
+ 0.006 = error

302.548' Cypress Park Blvd SE cor rd RR Sville Pole rd

+	B	d	BM	-	B	d	Elev.
3.506	11.0	184.0		4.458			293.946 Cypress + Herbert s/cor h/Suite Paley rd
1.024	10.5	100.0		4.290			Brooks + Albert s/cor inside property line
3.838	10.5	159.0		7.325			287.193 brass Plug in concrete monument
7.302	10.5	159.0		3.813			
4.288	11.5	100.0		10.15			293.947 BM
4.458	12.0	184.0		3.503			
9.386	12.0	100.0		16.36			
6.488	12.5	153.0		6.074			302.960 302.968 BM Indiana + Cypress +0.008 = error
40.184				52.114			

December 23 1908

K + E Precise Level #15105

Florida Rod

Wheeler - Observer  
Ellsworth - Rod  
Lambert - Chain

+	B	d	BM	-	B	d	Elev
8932	12.5	100.0	730830	3031			
6867	12.0	100.0	31st Webster	1385			
5865	12.0	135.0		5000			
2503	11.0	100.0		6634			
2930	10.5	95.0		6070			
2247	10.0	150.0		5600			
2403	10.0	100.0		5840			
2277	9.5	97.0		8560			
2183	8.5	143.0		2818			
0351	8.5	69.0		6846			
0945	9.0	44.0		8788			
1580	8.5	112.0		1196			
9051	8.5	100.0		6892			
6892	8.0	100.0		0177			
55026				68827			

85331 32nd Webster Secord RR Spike Pole grad

32nd Clay Swear inside property line  
78060 brass Plug in concrete monument

74707 32nd Franklin NW cor'd RR Spike Pole grad

64987 32nd Woolman Tie Pin

31st Woolman NW cor' inside property line  
52557 brass Plug in concrete monument



+	B	d	BM	-	B
8.969	8.0	52.0		0.954	
8.930	8.0	68.0		0.524	
9.130	8.5	58.0		0.872	
7.894	9.0	58.0		0.841	
1.854	9.0	150.0		7.816	
36.777				11.007	

K+E Precise Level #15105

Florida Rod

d Elev

old BM

30th + Woolman NW cor inside property line  
91.004 brass Plug in concrete monument

85.042 <sup>x</sup> 30th + Franklin SW cor hd Spike Pole / above rd

December 24 1908

Wheeler - Observer  
Ellsworth - Rod  
Lambert - Chair

+	B	d	BM	-	B
10.42	12.0	125.0	85.042 30 <sup>th</sup> +	7.824	
2.647	12.0	70.0	Franklin	6.084	
0.399	12.0	70.0		2.412	
5.677	12.0	125.0		5.492	
9.765				21.812	
4.202	11.5	125.0	74.814 30 <sup>th</sup> +	2.754	
5.285	11.0	186.0	Clay	3.850	
4.716	11.0	150.0		5.984	
3.917	11.0	144.0		2.990	
2.685	10.5	125.0		6.443	
3.776	10.5	131.0		5.811	
1.330	10.5	181.0		7.750	
25.911				35.582	

d Elev

8

74.814  
74.823 BM 30<sup>th</sup> + Clay

72.986  
72.995 BM 30<sup>th</sup> + Webster  
+0.009 = error

77.697 29<sup>th</sup> + Clay NE corner RR Spite Pole grad

71.575  
71.563 BM 28<sup>th</sup> Webster  
65136  
65143 BM N + Hensley  
+0.007 = error

+	B	d	BM	-	B
3.079	10.0	125.0	73.656 30 <sup>th</sup> +L	5.599	
5.294	10.0	145.0		2.743	
5.033	10.0	112.0		3.630	
4.037	10.0	150.0		3.200	
4.730	10.0	150.0		3.829	
4.008	10.0	109.0		4.532	
4.531	10.0	109.0		5.606	
5.473	10.5	112.0		3.125	
5.487	10.5	100.0		4.915	
4.602	11.0	100.0		4.748	
4.102	11.0	100.0		4.607	
3.780	11.0	120.0		4.747	
54.156				51.281	

K+E Precise Level #15105

Florida Rod

d Elev

50<sup>th</sup>+J Sts SE cor inside property line  
75.090 brass Plug in concrete monument

76.304 31<sup>st</sup>+J Sts w cor hd 4x8 Spike & Peg

77.577 BM 31<sup>st</sup>+K.

78.003 BM 31<sup>st</sup>+L

76.535  
76.531 BM 31<sup>st</sup>+M  
-0.002 = error

December 28, 1908.

Wheeler - Observer

Ellsworth - Rod

Lambert - Chain

+	B	d	BM	-	B	d	Elev
6.541	11.5	50.0	164.804	2365			27 <sup>th</sup> + F Sts NW cor. flush with sidewalk on property
			27 <sup>th</sup> + F				168.980 line brass Plug in concrete monument
2.366	11.5	50.0		6.541			164.804
							164.805 BM 27 <sup>th</sup> + F
							+0.001 = error
8.907				8.906			
9.088	11.0	91.0	177.522	1.922			EST bet 28 <sup>th</sup> - 29 <sup>th</sup> Sts inside property line of
			28 <sup>th</sup> + 29 <sup>th</sup>				184.688 S.M.Tyson brass Plug in concrete monument
1.922	11.0	91.0	E + F Alley	9.088			177.522
			between				177.522 BM Start
							± 0.000
11.010				11.010			
0.656	9.5	82.0	217.883	9.742			
			30 <sup>th</sup> + B				
0.266	8.5	46.0		9.165			
0.218	8.5	77.0		4.816			195.300 30 <sup>th</sup> + C Sts SE cor hd PPS pile to leg rd
3.480	8.5	131.0		6.383			192.397 30 <sup>th</sup> + D Sts NW cor hd PPS pile to leg rd
6.335	8.5	100.0		5.268			
0.948	8.0	150.0		8.920			185.422 30 <sup>th</sup> + E Sts SW cor hd PPS pile to leg rd
0.016	8.0	82.0		8.798			
11.919				53.164			

+	B	d	BM	-	B	d	Elev
1590	8.0	54.0		7.099			
1984	8.0	55.0		5791			167.324 30 <sup>th</sup> F St S W cor hd RR Spike Pole grd
0.128	8.5	100.0		8404			30 <sup>th</sup> G St N W cor inside property line
3.930	8.5	50.0		5365			157.613 brass Plug in concrete monument
5365	8.5	50.0		3931			
8399	8.5	100.0		0124			BM
5790	8.5	55.0		1983			
7.095	8.5	54.0		1587			
8790	9.0	82.0		0010			BM
8995	9.0	150.0		0950			
5270	10.5	100.0		6334			
6367	11.0	131.0		3466			195.299 BM 30 <sup>th</sup> + C
63703				45044			

N+E Precise Level #15105  
Florida Rod

December 29, 1908.

Wheeler - Observer  
Ellsworth - Rod  
Lambert - Chain

$t$	$B$	$d$	BM	-	$B$	$d$	Flev
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4.801	11.5	77.0	195299 30 <sup>th</sup> +C	0.067			
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8.952	11.0	46.0		0.191			
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9.766	10.0	82.0		0.679			
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217.883

217.881 BM30<sup>th</sup>+B~~-0.002 = error~~

23.519				0.937			
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0.718	9.5	120.0	157.613 30 <sup>th</sup> +G	0.239			
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4.917	9.0	100.0		7.982			
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0.550	9.0	60.0		8.583			
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0.295	8.5	68.0		9.830			
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0.002	8.5	26.0		9.341			
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0.042	8.5	35.0		9.732			
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0.218	9.0	57.0		9.859			
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0.140	9.0	123.0		9.833			
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4.805	9.0	28.0		0.034			
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103.867 31<sup>st</sup>+HStSweorhd PPSpille Pole.grd

0.034	9.0	28.0		4.805			
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11.721				70.238			
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T	B	d	BM	-	B	d	Elev
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4.805	9.0	28.0					7202
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0.236	9.5	54.0					8220
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0.733	9.0	81.0					6689
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82.759' 31<sup>st</sup> + 1<sup>st</sup> St. NE cor hd RR Spite Pole grd

2.524	9.0	100.0					5987
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3.223	9.5	134.0					6200
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76.310'  
76.319' BM 31<sup>st</sup> + J  
+0.009 = error

11.521'							34.298'
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5.337	9.5	150.0	78.005	4.900			
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31<sup>st</sup> + L

4.090	10.0	181.0					3885
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78.647' 32<sup>nd</sup> + L St. NE cor hd RR Spite Pole grd

9.427'							8.785'
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December 30 1908

W + E Precise Level #15105

Florida Rod

Wheeler - Observer  
Ellsworth - Rod  
Lambert - Chain

	B	d	BM	-	B	d	Elev
2280	12.0	206.0	285.0190 2 <sup>nd</sup> Wash.	8.325			BM Wash + Washington
3636	11.5	175.0		5.116			BM Wash + Albatross
0200	11.5	66.0		9.401			
0193	11.5	73.0		7.506			
4248	11.5	250.0		0.763			BM Wash + Dove
4561	10.0	100.0		5.978			263.049 263.048 BM Wash + Eagle -0.001 = error
15.118				37.089			
3587	8.5	50.0	78.647 32 <sup>nd</sup> + L Pole	3.885			32 <sup>nd</sup> L Sts SE cor inside property line brass Plug in concrete monument
5215	8.0	100.0		3.474			
4596	8.0	94.0		4.114			80.572 32 <sup>nd</sup> + M Sts sewer Tie Pin
6900	7.5	190.0		3.228			84.244 32 <sup>nd</sup> L Sts SE cor hd PPS spike Pole grd 82.809
3370	8.0	191.0		4.808			82.806 32 <sup>nd</sup> L Sts SE cor hd PPS spike Pole grd
5242	9.0	100.0		5.220			
4283	9.5	135.0		3.886			83.225 32 <sup>nd</sup> H Sts NE cor hd PPS spike Pole grd
33.193				28.615			



+	B	d	BM	-	B	d	Elev
6.007	10.0	150.0		1.038			
9.019	10.0	125.0		0.040			
7.423	10.0	90.0		0.744			
22.449				1.822			

103.8610

103.852 BM 31<sup>st</sup> H

-0.009 = error

H+E Precise Level #510r

Florida Rod

January 4 1909

Wheeler - Observer  
Ellsworth - Rod  
Lambert - Chain

+	B	d	BM	-	B	d	Level
4.756	9.5	100.0	64050	5.518	-		
3.623	9.5	150.0	National Ave Bridge	2.870			34 <sup>th</sup> National SE Cor flush with sidewalk brass Plug in concrete monument
9.199	11.0	42.0		0.071			
9.467	11.5	48.0		0.242			
9.495	11.5	56.0		0.831			
9.000	11.5	100.0		1.687			
7.560	11.5	150.0		1.402			
9.161	11.0	150.0		2.149			53896 Tie Pin Nursery
62261				14.770			

K+E Precise Level #15105

Florida Rod

January 5 1909

Wheeler - Observer  
Ellsworth - Rod  
Lambert - Chain

+	B	d	BM	-	B
1.681	11.5	64.0	53896	9309	
0.749	11.5	62.0	Tie Pin Nursery	8945	
4.029	11.0	42.0		5774	
6.023	11.0	150.0		2850	
8.840	10.5	150.0		1022	
8.058	10.5	125.0		0.418	
9.110	10.5	58.0		0.695	
9.262	10.0	56.0		1.045	
8.875	10.0	127.0		0.409	
7.275	10.5	150.0		1.278	
8.873	10.0	150.0		5.660	
1.797	10.0	100.0		2.059	
7.666	9.5	114.0		1.954	
6.096	10.0	150.0		9.476	
88.334				51.294	

17

d Elev

36th National/SE cor flush with sidewalk nr  
 36.327 property brass Plug in concrete monument

38th National/NE cor flush with sidewalk nr  
 80.056 property brass Plug in concrete monument

38th Logan/NE cor inside property line  
 94.316 brass Plug in concrete monument

+	B	d	BM	-	B	d	Elev
1942	10.0	150.0		2404			
8897	10.0	150.0		0384			
8718	10.0	74.0		0715			
7753	10.0	93.0		3477			
27310 ✓				6980 ✓			

39<sup>th</sup> Woodmen St. NW cor inside property  
111266 line brass Plug in concrete monument

H+E Precise Level #15105

Florida Rod

January 6, 1909.

Wheeler - Observer  
Ellsworth - Rod  
Lambert - Chain

i +	B	d	BM	-	B	d	Elev
0.550	10.5	152.0	111266	9.560			
0.321	10.0	45.0	397+ Woolman	9.620			
0.826	10.0	58.0		8.003			
2.782	10.0	100.0		5.553			83.009 38 <sup>th</sup> Woolman NW corner of RR Spike Pole grad
5.148	9.5	100.0		7.243			
0.565	9.0	47.0		8.867			
2.110	9.0	100.0		9.138			
0.394	8.5	34.0		6.719			37 <sup>th</sup> Woolman NE corner inside property line 57.259 brass Plug in concrete monument
1.370	9.0	100.0		6.120			
1.320	9.0	126.0		0.178			
9.245	9.0	44.0		0.254			
7.866	8.5	56.0		1.335			69.173 36 <sup>th</sup> Woolman NE corner of RR Spike Pole grad
1.183	8.5	105.0		7.433			
3.570	9.0	100.0		1.049			
37.250				83.072			

+	B	d	BM	-	B	d	Elev
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9.311	9.0	55.0		1.033			
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7.477	8.5	54.0		4.649			
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1.131	9.0	81.0		6.320			
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0.446	9.0	35.0		8.190			
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0.125	10.0	70.0		9.908			
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18.490				30.100			
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35 Dr. Woodman SE cor inside property line  
76.550 brass Plug in concrete monument

53.834 Tie Pin "A"

N+E Precise Level #15105

Florida Rod

January 7 1909

Wheeler - Observer  
Ellsworth - Rod  
Lambert - Chain

+	B	d	BM	-	B	d	Elev
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0.688	12.0	23.0	53.834	28.88			
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0.399	12.0	48.0	Tie Pin A Peg=20	9.832			
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0.058	11.0	48.0		9.377			
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0.036	11.0	60.0		9.356			
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3.078	11.0	40.0		2.234			
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18.406 34<sup>th</sup> + Woodman NE Cor hd PPS spike Tele grd

2.234	11.0	40.0		5.480			
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2.587	11.0	100.0		5.306			
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Feltan + Woodman NE Cor inside property line  
13.860 brass Plug in concrete monument

5.476	10.5	118.0		4.057			
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5.489	10.5	88.0		0.031			
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7.262	10.0	86.0		0.750			
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8.949	9.5	53.0		0.817			
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33.962 33<sup>rd</sup> + Woodman NE Cor hd PPS spike Pole grd

9.206	9.0	60.0		0.067			
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9.367	9.5	65.0		0.422			
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9.457	9.5	75.0		0.043			
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64.286				56.660			
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	B	d	BM	-	B
5.259	9.0	30.0			1.795
1.795	9.0	30.0			1.749
7.054					3.544

K+E Precise Level #75105

Florida Rod

d Elev

64.924 32<sup>nd</sup> Woolman NE cor hd F.R. Spille Pole rd  
 64.982 @  
 64.970 Tie Pin 32<sup>nd</sup> + Woolman  
 -0.012 = error

January 8 1909.

Wheeler - Observer  
 Ellsworth - Rod  
 Lambert - Chain



+	B	d	BM	-	B	d	Elev
4.580	10.0	193.0	284170 Sigsbee Logan	8.990			24.007' BMSigsbee + National
2.225	10.0	224.0		7.375			18.857' BMSigsbee + Newton
1.637	11.0	160.0		7.866			12.628' BMSigsbee + Main
8.250	11.5	305.0		0.698			20.180' 20.180' BM Main + Berdsley ±0.000 = error
16.692'				24.929'			
9.902	12.0	150.0	27.5830 Main Evans	0.020			37.465' BM Newton + Evans
6.795	12.0	100.0		0.670			52.002'
7.390	12.0	128.0		0.984			51.996' BM National + Evans -0.006 = error
26.087'				1.674'			

W. E. Precise Level #15105

Florida Rod

January 13 1909

Wheeler - Observer  
Ellsworth - Rod  
Lambert - Chair

+	B	d	BM	-	B	d	Elev
2555	9.0	230.0	468746 India	6.105			43324 <sup>1</sup> BM India + Kalmia
9420	9.0	125.0	Juniper	0.222			
6978	9.0	77.0		3.174			56326 <sup>1</sup> BM India + Laurel
9557	10.0	64.0		0.042			
9570	9.5	75.0		0.080			
7475	9.5	54.0		3.810			78996 <sup>1</sup> BM India + Maple
9787	10.0	100.0		0.993			
5407	10.0	55.0		3.347			90.050 <sup>1</sup> BM India + Nutmeg SW
5373	10.5	60.0		2.900			92522 <sup>1</sup> 92523 <sup>1</sup> BM India + Nutmeg NW +0.001 = error
66322 <sup>1</sup>				20.673 <sup>1</sup>			
6201	11.0	27.0	80637 <sup>1</sup> India + Vine Swear Pine Old BM	3.918			82920 <sup>1</sup> BM India + Vine SE cor 8298

W + E Precise Level #15105

Florida Rod

January 14 1909

Wheeler - Observer  
Ellsworth - Rod  
Lambert - Chain

+	B	d	BM	-	B
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3291	11.0	158.0	76.5340 31 <sup>st</sup> M	6.772	
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0.936	11.0	162.0		6.372	
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4.227				13.144	
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8440	10.5	75.0	78.819 27 <sup>th</sup> L	11.34	
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9530	10.0	80.0		0.326	
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9254	9.5	58.0		0.219	
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9011	9.5	27.0		0.245	
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9228	9.5	50.0		0.000	
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8868	10.0	64.0		0.168	
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8042	10.5	49.0		0.021	
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5808	10.5	29.0		0.986	
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9145	8.5	139.0		3.157	
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1.863	8.5	140.0		9.247	
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1.794	9.0	81.0		8.583	
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80983				24086	
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d	Elev
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67.617

67.617 32<sup>nd</sup> M Sta SW corner of RR Spill & Pole rd

±0.000 = error

113130 27<sup>th</sup> M Sta NE corner of RR Spill & Pole rd

143970

143901 BM 27<sup>th</sup> + J

135788

135716 BM 26<sup>th</sup> + J

<sup>44</sup> +	B	d	BM	-	B	d	Elev
0.383	10.0	134.0	16.642 165-M	8.561			8.464 / 15 <sup>th</sup> MSTs NE cor brass Plug end return
4.604	9.0	100.0		4.894			
4.210	9.0	137.0		5.452			6.932 / 14 <sup>th</sup> MSTs NE cor brass Plug end return
3.403	9.5	141.0		7.337			2.998 / 13 <sup>th</sup> MSTs NE cor brass Plug end return
4.839	10.0	140.0		4.165			3.672 / 12 <sup>th</sup> MSTs NE cor hd PPS pile to leg rd
6.808	10.5	182.0		4.037			6.443 / 11 <sup>th</sup> MSTs NW cor hd PPS pile to leg rd
5.373	11.0	107.0		4.332			7.484 / 10 <sup>th</sup> MSTs NE cor brass Plug end return
29.620				38.778			

f	B	d	BM	-	B	d	Flev
3.976	12.0	73.0		5.299			
			10 <sup>th</sup> -M				
3.656	12.0	75.0		4.810			5.007 9 <sup>th</sup> -M Sts SE cor brass Plug end return.
6.107	12.0	100.0		3.192			
							10.747
5.697	12.0	98.0		2.863			10.756 BM 9 <sup>th</sup> -L
							+0.009 = error
19.436				16.164			
5.512	11.5	175.0	14.111	4.788			14.835 11 <sup>th</sup> -L Sts NE cor lid RR Spille Pole rd
			10 <sup>th</sup> -L				
1.877	11.0	141.0		8.230			8.482 12 <sup>th</sup> -L Sts NE cor lid RR Spille Pole rd
0.827	10.5	141.0		2.200			7.109 13 <sup>th</sup> -L Sts NE cor lid RR Spille Pole rd
6.423	10.0	135.0		6.260			7.272 14 <sup>th</sup> -L Sts NE cor lid RR Spille Pole rd
6.291	11.0	100.0		3.047			
7.324	11.0	144.0		1.655			16.185 15 <sup>th</sup> -L Sts NE cor lid RR Spille Pole rd
							23.9945
7.946	10.0	133.0		0.140			23.991 BM 16 <sup>th</sup> -L
							-0.003 = error
36.200				26.320			

W. E. Precise Level #15105  
Florida Rod

January 16 1908

Wheeler - Observer  
Ellsworth - Rod  
Lambert - Chain

$\gamma$	B	d	BM	-	B	d	Elev
2172	11.0	100.0	111.272	9810			
			<sup>39<sup>th</sup></sup>				
1315	10.0	100.0	Widman	0.722			
6.813	10.0	90.0		6350			
3.245	10.0	100.0		1067			
9.013	10.5	130.0		1552			
7.998	10.5	101.0		2507			
1.788	10.5	100.0		7449			
0.515	11.0	80.0		9840			
0.510	11.5	98.0		9817			
5.032	11.0	64.0		4780			
5.587	11.0	127.0		4076			
6.028	11.0	128.0		4849			
5.058	11.0	127.0		5678			
5.133	11.0	129.0		4844			
6.0407				73341			

39<sup>th</sup> Sigel Sts SW cor inside property line  
119.820 brass Plug in concrete monument

95.779 38<sup>th</sup> Sigel Sts NW cor hd FRR Spill Pole grad

+	B	d	BM	-	B	d	Elev.
3.832	11.0	120.0		5.482			96.488 <i>7 1/2" St. E side abt 25' s of cor. Sigel St inside property line brass Plug in concrete monument</i>
5.325	11.5	150.0		3.698			
4.598	11.5	122.0		6.853			95.860 Tie Pin "B"
5.783	12.0	100.0		8.044			
5.058	12.0	126.0		9.803			Tie Pin "C"
13.755				16.033			

January 18 1909

W. E. Precise Level #15105

Florida Rod

Wheeler - Observer  
Ellsworth - Rod  
Lambert - Ch. 117

+	B	d	BM	-	B	d	Elev
5353	12.5	151.0	95860 Tie Pin B	9.634			
1600	12.0	125.0		9.265			
0700	12.0	54.0		9.773			
2525	12.0	30.0		8.187			69.176 69.179 BM 36 <sup>th</sup> Woodman +0.003 = error
10.178				36.859			
8203	12.0	156.0	Washington + HAWK	15.23			BM Hawk + Getti
0003	12.0	153.0		8.832			
2270	12.0	150.0	Stephens Lewis	6.520			
1802	12.0	125.0		6.652			
7710	12.0	155.0		3.352			
2252	12.0	150.0		2.590			BM Lyndon Sheridan
14037				27.946			

January 19 1909





+	B	d	BM	-	B	d	Elev
2.876	11.5	150.0	35.538	5.908			
3.870	11.5	156.0	27 1/2 + Boston	7.339			BMBoston + 26 <sup>th</sup>
6.478	12.0	100.0		27.64			39.033
7.856	12.0	128.0		15.69			39.038 BM 26 <sup>th</sup> + Grand + 0.005 = error
21.080				17.580			

H+E Precise Level #15105

Florida Rod

January 20 1909

Wheeler - observer  
Ellsworth - Rod  
Thomas - Chain

+	B	d	BM	-	B
3622	11.0	30.0	11.4396	4883	
			Wend of old Bridge near Hardy's		
4883	11.0	30.0		3.623	
6200	10.5	99.0	20.9256	4671	
			Tie Pin A		
3232	11.0	198.0	BK 713 24	4.828	
3175	11.0	277.0		7.170	
7067	10.0	277.0		3.077	
19674				19.746	

H+E Precise Level #15105

Florida Rod

33

d	Elev
10.178	Morena Rd W side adj. property abt 73' NW Bridge brass Plug concrete monument
11.439	
11.438	
-0.001	= error

22454	Buenos + Linda Aves. SW cor inside property brass Plug in concrete monument
20.8536	
20.858	BM Pole opp. Foreman's House Hardy's La Jolla Blvd E side end Duffe nr. Weeks Ave Pole
16.863	Witness brass Plug concrete monument
20.858	
20.853	BM Pole Start
-0.005	= error

January 25 1909

Wheeler - Observer  
Ellsworth - Rod  
Thomas - Chain

	B	d	BM	-	B	d	Elev
9.810	12.0	200.0	262.6800				1.330
			<sup>Sheridan</sup> + Lyndon				
3203	12.0	165.0					5.985
8.519	12.0	150.0					7.375
0.518	11.5	75.0					7.504
8.729	11.0	89.0					0.083
9.480	10.5	64.0					0.022
7.633	10.0	80.0					5.389
47.892							27.688

H + F Precise Level #15105

Florida Rod

282.9000  
282.884 BM Inside + Sunset Blvd  
-0.006 = error

January 30 1909

Wheeler - Observer  
Ellsworth - Rod  
Lambert - Chain

+	B	d	BM	-	B	d	Elev
8.044	9.5	204.0	77330 <sup>✓</sup>	10.65			
7.777	9.5	112.0	Allurebet. Allison + Bayard	3.067			Not Fd. Loring + Bayard Sts NE cor inside property line brass Plug in concrete monument
3.067	9.5	112.0		7.777			
1.054	9.5	204.0		8.033			77330 <sup>✓</sup> 77330 BM Start ± 0.000 = error
19.942 <sup>✓</sup>				19.942 <sup>✓</sup>			
3.331	12.0	69.0	116.103 <sup>✓</sup>	4.260			Not Fd. Prospect + Exchange Place NE cor flush with cur property brass Plug concrete monument
4.260	12.0	69.0	Cave + Exchange	3.331			116.103 <sup>✓</sup> 116.103 BM Start ± 0.000 = error
7.591 <sup>✓</sup>				7.591 <sup>✓</sup>			
9.233	11.5	208.0	104.026 <sup>✓</sup>	0.211			
7.802	11.0	100.0	Kline + Girard	6.995			NG. 113.855 Kline + Herschel Sts wear hd of R Spill Pole grd
6.995	11.0	100.0		1.115			
7.852	11.0	70.0		1.111			
7.269	11.0	75.0		0.486			Not Fd. Ictinus + State Sts NW cor inside property line brass Plug in concrete monument
39.151 <sup>✓</sup>				9.918 <sup>✓</sup>			

+	B	d	BM	-	B	d	Elev
0.485	10.5	75.0					7.269
1.111	10.5	70.0					7.851
1.120	10.5	100.0					7.002
7.002	10.5	100.0					7.850
0.240	10.0	208.0					9.220
9.958							39.192

104.026  
104.025 BM Start  
-0.001 = error

0.558	10.5	146.0	95.429	7.233			
7.033	11.0	146.0	Fay Mline	0.558			
7.591				7.591			

Mline + Eads St. Sec. inside property line  
destroyed 88.954 brass Plug concrete monument  
95.429  
95.429  
±0.000 = error

2.806	10.0	92.0	87.854	3.061			
3.062	10.0	92.0	Drapers Pearl	2.806			
5.868				5.868			

Drapers + Pearl St. wear inside property line  
Not Fd. 87.599 brass Plug concrete monument  
12-24-24 87.854  
87.855  
+0.001 = error

W + E Precise Level #15105  
Florida Rod

February 1 1909

Wheeler - Observer  
Ellsworth - Rod  
Thomas - Chain

T	B	d	BM	-	B	d	Elev
4302	10.0	77.0	71.651	4108			Gone 71.845
			La Jolla Blvd bet. Sea - Marine				brass Plug concrete monument
4108	10.0	77.0		4301			71.651 71.652 +0.001 = error
8.410				8.409			
5850	10.5	163.0	79.260	5318			
			La Jolla Blvd + Westbourne				
3563	11.5	117.0		6700			Not Id. 76.655
							brass Plug concrete monument
6701	11.5	117.0		3563			79.793 Tie Pin B
16.114				15.581			
3618	11.0	200.0	209250	2610			
			Tie Pin A				
7308	11.0	200.0	2117124	4412			
2414	10.5	206.0		4903			La Jolla Blvd N side 1st Curve E New Tecolote Bridge
							22.340 309 E city hyd brass Plug concrete monument
4903	11.0	206.0		2412			
4401	11.0	200.0		7300			
2617	10.5	200.0		3422			20.925 20.927 T.P. Start +0.002 = error
25261				25259			

February 2 1909

+	B	d	BM	-	B	d	Elev
0.285	10.0	44.0	22340				6.533
0.620	10.0	114.0	Mon. nr. Page 27				7.635
4.617	10.0	200.0					4.650
4.900	10.0	97.0					6.028
6.028	10.5	97.0					7.916 Tie Pin "C"
4.645	10.5	200.0					4.900
7.634	10.5	114.0					4.612
6.416	10.5	44.0					7.634
							0.514
							6.416
							0.273
35.145							22.340
							22.340 BM Start
							10.000 = error
							35.145
4.248	10.5	150.0	7.916				5.627
			Tie Pin "C"				
2.938	11.0	184.0					6.648
6.648	11.5	184.0					2.938
5.615	12.0	150.0					7.916
							7.920 TP Start
							+0.004 = error
19.449							19.445

Wheeler - Observer  
 Ellsworth - Rod  
 Thomas - Chain

February 3 1909



+	B	d	BM	-	B	d	Elev
0.735	12.0	191.0	23.994 <sup>0</sup> 16B + L	8.087	-		16.642 / 16 <sup>th</sup> + M's NE cor brass Plug end return 23.994 <sup>1</sup> 23.996 <sup>1</sup> BM Start + 0.002 = error
8.087	12.0	191.0		0.733			
8.822 <sup>1</sup>				8.820 <sup>1</sup>			
5.488	12.0	200.0	20.176 <sup>0</sup> Main + Beardsley	4.264			22.175 <sup>1</sup> 22.161 <sup>1</sup> BM Mair + Crosby - 0.014 = error
5.529	12.0	154.0		4.768			
11.017 <sup>1</sup>				9.032 <sup>1</sup>			

M + E Precise Level #15105

Florida Rod

February 4 1909

Wheeler - Observer  
Ellsworth - Rod  
Thomas - Chain

$t$	$B$	$d$	BM	-	$B$	$d$	Elev
2.822	12.5	45.0	38.635	7.911			
0.483	12.0	79.0	32.12 Main	9.201			
0.318	12.0	77.0		8.060			
0.918	12.0	90.0		9.350			
2.778	12.0	52.0		6.624			
3.525	12.0	94.0		6.610			
6.610	12.0	94.0		3.525			
6.618	11.5	52.0		2.774			
9.342	11.5	90.0		0.911			
8.051	11.5	77.0		0.310			
9.178	11.5	79.0		0.460			
7.892	11.5	45.0		2.805			
58.535				58.541			
4.512		150.0	1.727	5.014			

BM Main  
See above

Main St inside S Bridge abt 26' E of Blewitness  
1.723 brass flag concrete monument

38.635  
38.629 BM Start  
-0.006 = error

t	B	d	BM	-	E
4.743	11.5	150.0			4.894
4.950	11.5	107.0			3.440
3.440	11.5	107.0			4.950
4.891	11.0	150.0			4.740
5.011	11.0	150.0			4.510

23.035' 22.534'

3.790 11.5 150.0 2.584<sup>✓</sup> 4.830  
T.P.R.R.  
Bridge

5.801 11.5 150.0 3.826

5.819 11.5 122.0 3.643

3.642 11.5 122.0 5.819

3.829 11.5 150.0 5.803

4.785 11.5 150.0 3.745

27.666' 27.666'

H+E Precise Level #15105  
Florida Rod

d Elev

2.584<sup>✓</sup> Tie Pin P.R.R. Bridge

1.727

1.726<sup>✓</sup> B.M. Mon. Start  
-0.001 = error

5.695<sup>✓</sup> Main + Thor Sts. w/cor. hd P.R.R. Spike Pole grad

2.584<sup>✓</sup>

2.584<sup>✓</sup> T.P.R.R. Bridge  
±0.000 = error

February 5, 1909

Wheeler - Observer  
Ellsworth - Rod  
Thomas - Chain

+	B	d	BM	-	B	d	Elev
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6.695	11.5	150.0	5.695 <sup>✓</sup>	2424	-		
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BM Spillie  
Pg 41

6.629	11.0	150.0		2630			
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4.566	11.0	96.0		3930			14.601 <sup>✓</sup> Main + Ura St. NE cor hd RR Spillie Pole grad
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3.944	11.0	145.0		2944			
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3.184	10.5	100.0		4079			Main + Vesta Sts NE cor inside property line
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5.777	10.5	110.0		2019			18.464 <sup>✓</sup> brass Plug concrete monument
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2018	10.5	110.0		5778			
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4.070	10.5	100.0		3173			
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3003	10.5	148.0		4001			
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3.917	10.5	96.0		4550			
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2.611	10.0	150.0		6650			
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2.500	10.0	150.0		6733			5.695 <sup>✓</sup>
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5.698<sup>✓</sup> BM start  
+0.003 = error

48914 <sup>✓</sup>				48911 <sup>✓</sup>			
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3.117	10.5	150.0	18.464 <sup>✓</sup>	7.463			
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Main +  
Vesta

+	B	d	BM	-	B	d	Elev.
3.634	11.0	150.0		7.015			
2.872	11.0	150.0		6.610			
2.776	11.5	160.0		5.218			4.557 "Tie Pin" H"
5.218	11.5	160.0		2.777			
6.587	11.5	150.0		2.849			
6.988	12.0	150.0		3.603			
7.464	12.0	150.0		3.120			18.464 18.465 BM start +0.001 = error
35.539				31.192			

M+E Precise Level #15105

Florida Rod

February 9 1909

Wheeler - Observer  
Ellsworth - Rod  
Thomas - Chain

T	B	d	BM	-	B	d	Elev.
4.813	12.0	165.0	2.825 <sup>6</sup>		6.224		1.414
			tie Pin E <sup>o</sup>				La Jolla Blvd w side nr intersection in the Pueblo Lot 256 NW New Tecate Bridge 1/5 NW city hyd brass Plug concrete monument
6.225	12.0	165.0	Page 38		4.814		2.825 ✓ 2.825 ✓ TP start 10.000 = error
11.038					11.038		
4.017	11.5	150.0	8.999 ✓		3.827		
			Morena rd S.E. Pole Set				
3.563	11.0	150.0	switch hole		3.423		
7.595	11.0	150.0			3.890		
4.814	11.0	176.0			4.022		La Jolla Blvd Morena E side opp. Santa Fe Culvert #213 13.826 ✓ witness Pole N-brass Plug concrete monument
4.022	11.0	176.0			4.815		
3.890	10.5	150.0			7.595		
3.420	10.5	150.0			3.562		
3.795	10.5	150.0			3.986		8.999 ✓ 8.995 ✓ BM start -0.004 = error
35.116					35.120		
7.298	10.5	150.0	8.999 ✓		4.877		
			Morena rd Pole S Santa Fe switch hole				

+	B	d	BM	-	B	d	Elev
4.564	11.0	160.0		3.654	-		12.330 La Jolla Blvd & Lister St NE cor inside property line brass Plug concrete monument
3.654	11.5	160.0		4.565			8.999
4.863	11.5	150.0		7.285			8.997 BM Start -0.002 = error
13.081				15.504			
4.684	11.0	35.0	12.769	6.126			11.327 Morera Blvd & Teller St La Jolla Blvd - Ingulf St SW cor inside Santa Fe Tr. of Way brass Plug concrete monument
6.126	11.0	35.0	BM Morera Book #1 Page 32	4.684			12.769 12.769 BM Start ±0.000 = error
10.810				10.810			
2.103	11.0	156.0	11.327	5.063			
3.785	11.0	150.0	La Jolla Blvd & Ingulf St	6.212			
3.883	11.0	117.0		2.042			7.781 Tie Pin J
2.040	11.0	117.0		3.883			
6.202	11.0	150.0		3.773			
5.117	11.0	156.0		2.161			11.327 11.323 BM Start -0.004 = error
23.130				23.134			

February 19, 1909

+	B	d	BM	-	B	d	Elev.
6601	12.0	150.0	7.783	3.922			
2.802	11.5	150.0	Tie Pin J Page 45	6.418			
4.664	11.0	80.0		0.732			11.678 Tie Pin K
0.733	11.0	80.0		4.664			
6.410	10.0	150.0		2.794			
3.914	10.0	150.0		6.593			7.783 7.784 TP Start ±0.001 = error
24.224				24.223			
2.848	10.0	30.0	6.974	3.487			Grand Ave E side intersection N line Pueblo Lot 1193 inside 6.335 property line brass Plug concrete monument
3.487	10.0	30.0	BM Pole Tie Place	2.848			6.974 6.974 BM Start ±0.000 = error
6.335				6.335			
4.122	9.5	75.0	9.593	3.691			Now Pacific + Revere Ave Grand Ave + Lama St NW cor inside property line 10.024 brass Plug concrete monument
3.691	9.5	75.0	BM Pole Slater Place	4.122			9.593 9.593 BM Start ±0.000
7.813				7.813			



T	B	d	BM	-	B	d	Elev
4.814	10.0	175.0	10.919	3850			Tie Pin O' BM # 19.50 Grand Ave x Center St NE cor inside property line
3.850	10.0	175.0	BM 13/4 Grand Ave Bridge	3.610			12.123 brass Plug concrete monument
3.610	10.0	175.0		3850			10.919
3.850	10.0	175.0		4.814			10.919 BM start ± 0.000 = error
16.124				16.124			
3.754	10.0	123.0	45.413	4.263			Grand Ave x Noyes St SE cor inside property line
3.780	10.5	150.0	Grand x Merrill	2.472			46.212 brass Plug concrete monument
2.472	10.5	150.0		3.780			45.413
4.263	10.5	123.0		3.753			45.414 BM start ± 0.001 = error
14.269				14.268			
6.310	10.5	36.0	83.600	4.629			yard Diamond Ave x Broadway SE cor inside property
4.629	10.5	36.0	Diamond x Broadway BM 13/2	6.310			85.281 brass Plug concrete monument
10.939				10.939			83.600 83.600 BM start ± 0.000 = error

February 15, 1909.

+	B	d	BM	-	B	d	Elev
5.806	10.5	20.0	11.678	3.132	-		Lower Road to American Park inside right of way 14.352 brass flag in wing of Santa Fe Culvert = C262
3.131	10.5	20.0	711711 Page 46	5.806			11.678 11.677 TP Start -0.001 = error
8.937				8.938			
5.209	10.0	137.0	13.461	2.401	-		Grand West End Aves S w cor inside property 16.269 brass flag concrete monument
2.400	9.0		Grand cor Loc 81171350	5.210			13.461 13.459 BM Start -0.002 = error
7.609				7.611			
3.441	8.5	70.0	37.107	3.892			Hornblende Fanuel Stg SE cor inside property
7.547	8.5	109.0	Grand cor Fanuel Cedar tree	2.313			41.890 brass flag concrete monument
2.313	8.5	109.0		7.545			
3.890	8.0	70.0		3.439			37.107 37.109 BM Start +0.002 = error
17.191				17.189			
5.753	8.5	150.0	41.890	3.491			
6.135	8.5	150.0	Hornblend + Fanuel	0.236			
11.888				3.727			

+	B	d	BM	-	B
5.849	8.0	100.0	1730	-	
1.730	8.0	100.0	5.849		
0.230	8.0	150.0	6.132		
3.485	8.5	150.0	5.748		
11.294			19.459		
9.598	8.0	100.0	54.172 Tie Pin M	11.94	
6.902	8.0	109.0	3.813		
5.471	8.0	87.0	4.093		
4.093	8.5	87.0	5.471		
3.805	8.5	109.0	6.892		
1.172	8.5	100.0	9.576		
31.041			31.039		

K+E Precise Level #15105  
Florida Rod

d Elev

54.170 Tie Pin M

41.890  
41.886 BM Start  
-0.004 = error

Garnett to Haines Sts SE cor inside property line  
67.043 brass Plug concrete monument

54.172  
54.174 TP Start  
+0.002 = error

February 16, 1909.

Wheeler - Observer  
Ellsworth - Rod  
Thomas - Chain

+	B	d	BM	-	B	d	Elev
2.272	10.5	167.0	20.440	2.895			
6.340	10.5	150.0	Alley BM 22 <sup>nd</sup> B. corner	6.012			
3.361	10.5	114.0		5.702	12 - 12 - 1942	17.804	Cass & Grand Ave NE cor inside property line brass Plug concrete monument
5.703	10.5	114.0		3.362			
6.010	10.5	150.0		6.337			
2.883	10.5	167.0		2.257			20.440 20.444 BM Start +0.004 = error
26.569				26.565			
1.910	10.0	71.0	48.244	6.202	Fd 12-17-42	43.952	Bayard & Missouri Sts SW cor inside property brass Plug concrete monument
6.202	10.0	71.0	Bayard & Missouri File BM	1.910			48.244 48.244 BM Start ± 0.000 = error
8.112				8.112			
0.886	10.0	100.0	69.913	8.020			
1.446	10.0	150.0	Missouri & Dawes Fence Post	8.030			
2.043	10.0	102.0		7.000			OUT Diamond & Dawes Sts SW cor inside property line brass Plug concrete monument
4.375				23.050			

+	B	d	BM	-	B	d	Elev
7.000	9.5	102.0	2044	-			
8.018	9.5	150.0	1436				
8.006	9.5	100.0	0872				
22.024			4.352				

69.913  
 69.910 BM Start  
 -0.003 = error

W. E. Precise Level #15105

Florida Rod

February 17 1909

Wheeler - Observer  
 Ellsworth - Rod  
 Thomas - Chain

+	B	d	BM	-	B	d	Elev
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4.702	12.0	163.0	20.440	6.432	-		
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2.457	12.0	175.0	Alley Block = 22" Bracer	7.234			
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4.776	12.0	63.0		3.285			Garnet Allison Sts NW cor inside property line 15.424 brass Plug concrete monument
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3.285	12.0	63.0		4.776			
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7.218	12.0	175.0		2.444			
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6.488	12.0	163.0		4.757			20.440 20.438 BM Start -0.002 = error
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28.926				28.928			
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1.903	12.0	31.0	114.412	4.204			11535 - USC & G. Walker FB. 1649-3 Pl. 1 Reser 9.01 Crocker Turquoise Sts NW cor inside property 106.34 (1) 112.111 brass Plug concrete monument
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4.203	12.0	31.0	Glendel Bridge Pole BM	1.902			114.412 114.412 BM Start ± 0.000 = error
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6.106				6.106			
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0.393	11.5	150.0	101.963	9.028			
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0.300	11.5	135.0	Tie Pin S BM 1755	9.628			
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0.542	11.5	150.0		8.628			
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1.235				27.284			
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$\pm$	B	d	BM	-	B	d	Elev
2.930	11.5	74.0	5.597	-			73.247
3.020	11.5	173.0	5.650				70.617
5.950			11.247				Tie Pin "0"

Dilled Blvd. Eside 50' N PC Curve nr Glendal Station

inside property 6" x 6" witness brass Plug concrete monument

70.617 Tie Pin "0"

W & E Precise Level #15105

Florida Rod

February 18 1909

Wheeler Observer

Ellsworth - Rod

Thomas - Chain

	B	d	BM	-	B	d	Elev
3654	10.5	150.0	70.617	✓	4488		
			Tie Pin "O"				
5077	10.0	150.0	Page 53		5433		
5134	9.5	150.0			2972		
7443	9.5	150.0			1437		Oiled Blvd-Colima St sw cor inside property line
1437	9.5	150.0			2457		77.595 brass Plug in concrete monument
7919	9.5	127.0			0.419		84.085
							84.075 BMElectric Colima
							-0.010 = error
30664				✓	17206		
5652	9.0	150.0	77.601	⊙	7217		
2108	9.5	150.0	Oiled Blvd Colima Mon		7422		
4288	9.0	150.0			4098		
6390	9.0	150.0			3670		
5613	9.0	140.0			4873		74.372 "Tie Pin P"
4873	9.0	140.0			5612		
3657	9.0	150.0			6375		
32581					39267		



B	d	BM	-	B	d	Elev
4.087	9.5	150.0		4.277		
7.418	9.5	150.0		2.105		
7.215	9.5	150.0		5.652		
18.720				12.034		

77.601  
 77.601 BM start  
 ±0.000

W+E Precise Level #15105

Florida Rod

February 19 1909

Wheeler - Observer  
 Ellsworth - Rod  
 Thomas - Chain

t	B	d	BM	-	B	d	Elev
5.471	11.5	107.0	64380	4.430			7.479 <sup>✓</sup> BM10 <sup>th</sup> +M
3.601	11.0	146.0	11 <sup>th</sup> M 7/12	6.074			5.002 <sup>⊖</sup> 5.006 <sup>✓</sup> BM9 <sup>th</sup> +M +0.004 = error
9.072 <sup>✓</sup>				10.504 <sup>✓</sup>			
1.152	11.0	193.0	14111 <sup>✓</sup> 10 <sup>th</sup> +L	7.790			7.473 <sup>✓</sup> BM10 <sup>th</sup> +M
1.464	10.0	190.0	7.111 <sup>✓</sup> 13 <sup>th</sup> +L	5.585			2.990 <sup>✓</sup> BM13 <sup>th</sup> +M

W+E Precise Level #15105

Florida Rod

February 20 1909  
Saturday

Wheeler - observer  
Ellsworth - Rod  
Thomas - Chain

T	B	d	BM	-	B
5638	11.5	150.0	74.372	4.070	
			Tie Pin P		
6507	11.5	150.0	Page 54	3.028	
5463	11.5	150.0		5.818	
3636	11.0	150.0		5.842	
2650	11.0	142.0		6.516	
6517	11.0	142.0		2.650	
5842	11.0	150.0		3.636	
5816	10.5	150.0		5.460	
3.022	10.0	150.0		6.505	
4065	10.0	150.0		5.634	
49.156				49.159	
3.565	9.5	150.0	72.994	3.688	
			Tie Pin P		
5.622	9.5	127.0	Scrubber	1.833	
3.480	10.0	150.0		3.423	
12.664				8.944	

d Elev

72.992 Tie Pin P

74.372  
 74.369 T.P. Start  
 -0.003 = error

76.660 Oiled Blvd side 701 W City hyd w of LA SDBRR Culvert  
 1770 witness 9's brass Plug concrete monument

+	B	d	B.M.	-	B.	d	Elev.
4.790	10.0	150.0		4.446	-		
5.974	10.0	148.0		3.802			
4.920	9.5	150.0		5.436			
4.828	9.5	170.0		4.264			
4.264	9.5	170.0		4.829			
5.430	9.5	150.0		4.910			
3.800	9.5	148.0		5.972			
4.514	10.0	150.0		4.857			
3.430	10.0	150.0		3.487			
1.838	10.0	127.0		5.628			
3.673	10.5	150.0		3.550			
4.7461				51.181			

M+E Precise Level #15105

Florida Rod

Dilled Blvd. Es side sw L. in SDB RR Culvert #18+190 S  
79.233 City hyd brass Plug concrete monument

79.281 Tie Pin 5"

BM

72.994  
72.997 TP Start  
+0.003 = error

February 23 1909

Wheeler - Observed  
Ellsworth - Rod  
Thomas - Chain

T	B	d	BM	-	B
5.580	11.0	150.0	79.279 <sup>6</sup> Tie Pin S	4.422	
5.312	11.0	100.0	Page 57	4.530	
5.400	10.5	143.0		3.390	
3.390	10.5	143.0		5.398	
4.524	10.0	100.0		5.307	
4.410	10.0	150.0		5.570	
28.616 <sup>1</sup>				28.617 <sup>1</sup>	
4.720	9.5	163.0	79.793 <sup>1</sup> Tie Pin B Page 37	5.250	
5.853	9.5	162.0	82.754 <sup>0</sup> 31 <sup>2</sup> + I	5.254	
3.773	9.5	176.0		3.950	
3.950	9.5	176.0		4.317	
13.576 <sup>1</sup>				13.577 <sup>1</sup>	

Oiled Blvd side curve N Bird Rock 10' south of  
83.229 where Poles cross Blvd brass Plug concrete monument

79.279<sup>1</sup>  
79.278<sup>1</sup> TR Start  
-0.001 = error

79.260<sup>1</sup>  
79.263<sup>1</sup> BM Westbourne + La Jolla Blvd  
+0.003 = error

32<sup>nd</sup> + 1 Sts NE corner inside property line  
83.176<sup>1</sup> brass Plug concrete monument  
82.806<sup>1</sup>  
82.809<sup>1</sup> BM 32<sup>nd</sup> + I  
+0.003 = error

+	B	d	BM	-	B	d	Flor
4.005	10.0	139.0	78.647 3210.1	4.303	-		78.349 <sup>✓</sup> BM Mon 32 <sup>nd</sup> + L
4.303	10.0	139.0	Pole	4.464			
5.303	10.5	195.0		5.488			78.005 <sup>✓</sup> 78.003 BM 31 <sup>st</sup> + L -0.002 = error
13.611 <sup>✓</sup>				14.255 <sup>✓</sup>			

M + F Precise Level #15105

Florida Rod

February 24 1909

Wheeler - Observer  
Ellsworth - Rod  
Thomas - Chair

+	B	d	BM	-	B	d	Elev
2.602	11.0	100.0	14.599 <sup>0</sup>	4.992	-		
4.704	10.5	143.0	Main Una	5.495			11.418 <sup>1</sup> Una + J Ave NW cor hd RR Spike Pole grd
1.818	10.0	178.0		5.943			7.293 <sup>5</sup> Una + M Ave NW cor hd RR Spike Pole grd
3.244	10.5	140.0		4.950			5.587 <sup>1</sup> Una + L Ave NE cor hd RR Spike Pole grd
5.212	10.0	100.0		2.375			Una + M Ave SE cor inside property line
4.809	10.5	103.0		4.953			8.280 <sup>0</sup> brass Plug concrete monument
4.952	10.5	103.0		4.809			
2.370	10.5	100.0		5.206			BM
4.925	10.0	140.0		3.219			BM
5.936	10.0	178.0		1.814			BM
5.488	10.0	143.0		4.697			
4.970	10.0	100.0		2.580			14.599 <sup>1</sup> Old BM Gateway 3.220 Marked 13.870 13.956 -0.066
51.030 <sup>1</sup>				51.033 <sup>1</sup>			14.596 <sup>1</sup> BM Start -0.003 = error
5.982	10.0	138.0	5.589 <sup>0</sup>	3.070			
			Una + L				

February 25, 1909.

Wheeler - Observer  
Ellsworth - Rod  
Thomas - Chain

+ B d BM - B d Elev
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8.025	10.0	135.0	3.793
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5.251	10.5	175.0	1.849
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6.415	10.5	150.0	5.810
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1.925	10.5	100.0	5.840
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3.044	10.5	105.0	5.718
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5.718	11.0	105.0	3.043
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5.845	11.0	100.0	1.930
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5.803	11.0	150.0	6.410
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1.840	11.0	175.0	5.241
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3.791	11.0	135.0	8.023
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3.092	11.0	138.0	6.003
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50.749			53.660
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4.782	11.0	50.0	2.584	4.510
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4.510	11.0	50.0	TPRR Bridge Page 41	4.782
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9.292			9.292
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Inside Santa Fe RR of Way & SE 7 1/2 Witness End Brewery  
10.151 brass Plug concrete monument.

5.589  
5.590 BM Start  
±0.001 = error

Main St E side 3' s intersection NC-ORR Crossing  
2.856 brass Plug concrete monument

2.584  
2.584  
±0.000 = error

February 26, 1909.



+	B	d	BM	-	B	d	Elev
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5.530	12.0	140.0	4.557	4.464			
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Tie Pin H

4.626	12.0	100.0	Page 43	3.564			
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7.425	12.0	56.0		0.930			
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Main Division St. NW cor inside property Pole witness  
13.180 2'-City Limits Guide Post 25' brass Plug concrete monument

0.932	12.0	56.0		7.426			
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3.546	12.0	100.0		4.607			
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4.457	12.0	140.0		5.526			
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4.557  
4.556 TP Start  
-0.001 = error

26.516				26.517			
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4.380	12.0	140.0	2.993	3.705			
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13<sup>th</sup> M

3.705	11.0	140.0		3.845			
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3.668 BM 12<sup>th</sup> M Pole

7.067	11.0	181.0		4.157			
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3.528 12<sup>th</sup> M St. NE cor brass Plug and return  
6.438  
6.438 BM 11<sup>th</sup> M St.  
±0.000 = error

15.152				11.707			
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3.153	10.0	75.0	6.617	8.979			
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32<sup>nd</sup> M

0.813	10.0	56.0		8.018			
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3.966				16.997			
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MARCH 1<sup>ST</sup> 1909

+	B	d	BM	-	B	d	Elev
0.465	10.0	64.0		8.432			46.619 Tie Pin T
8.432	10.5	64.0		0.464			
8.017	10.5	56.0		0.811			
8.986	10.5	75.0		3.157			67.617 67.622 BM start + 0.005 = error
25.900				12.864			

1.889	10.5	50.0	46.616 Tie Pin T	7.184			
1.397	10.0	100.0	Secobere	9.094			
0.744	10.0	150.0		7.867			
5.187	10.0	181.0		1.983			
1.983	10.5	181.0		5.187			
8.047	11.0	150.0		0.925			
9.227	11.0	100.0		15.29			
7.182	11.0	50.0		1.888			
35.656				35.657			

Cemetery Bridge N side Top center parapet Chollas Creek  
29.705 brass Plug

46.616  
46.615 TP start  
-0.001 = error

March 2, 1909.

+	B	d	BM	-	B	d	Elev
2.049	9.0	150.0	351266	7033			
0.975	9.0	100.0	Louisiana + Adams Mon	9.773			
0.130	9.0	37.0		9.519			
0.653	9.5	43.0		9.557			
0.511	9.5	29.0		8.324			
0.280	10.0	45.0		9.080			
1.318	10.0	29.0		7.457			
5.916				60.743			

K+E Precise Level #15105

Florida Rod

Sandrock Grade wide Moor Pier Adams St Bridge  
296.439 brass Plug in concrete above road surface

March 3<sup>rd</sup> 1909

Wheeler - Observer  
Ellsworth - Rod  
Thomas - Chain

+	B	d	BM	-	B	d	Elev
0.675	11.0	31.0	296.439 <sup>✓</sup>	9.334	-		
0.190	11.0	50.0	Sandpoth. Bridge Pier	9.742			
0.249	10.5	34.0		8.840			
0.194	10.5	44.0		9.723			
0.446	10.5	45.0		9.815			
0.150	11.0	40.0		9.357			
0.289	11.5	46.0		9.946			
0.039	11.5	48.0		9.745			222.169 <sup>✓</sup> Tie Pin brass Plug culvert
2.432 <sup>✓</sup>				76.502 <sup>✓</sup>			

M+E Precise Level #15105

Florida Rod

March 4 1909

Wheeler - Observer  
Ellsworth - Rod  
Thomas - Chain

T	B	d	BM	-	B	d	Elev
0.920	10.5	33.0	222.169	9.265	-		
0.099	10.5	48.0	Flag culvert Pg 26	9.810			
0.030	10.0	43.0		9.876			
0.232	9.5	42.0		9.448			
0.019	9.5	41.0		9.825			
0.239	9.0	44.0		9.181			
0.104	9.0	38.0		9.505			
0.099	9.0	44.0		9.872			
0.092	9.5	35.0		8.848			
0.071	9.5	49.0		9.730			
0.481	9.5	47.0		9.669			
2.652	9.0	38.0		6.377			
0.790	9.5	50.0		9.159			
0.267	9.5	59.0		9.828			
6.095				100.393			

Sandrock Grade Road E side abt. 30' W culvert  
115.801 brass Plug concrete monument

+	B	d	BM	-	B	d	Elev
0.229	10.0	45.0		9.657	-		
0.045	10.0	51.0		9.781			
0.019	10.0	41.0		9.409			
0.295	10.0	51.0		8.798			
0.455	9.5	61.0		9.864			
1.286	9.0	51.0		8.000			
1.954	9.5	100.0		4.429			
6.095	9.5	134.0		1.624			
10.378				61.562			

W & E Precise Level #15105

Florida Rod

44.691 Sandrock Grade - Mission Valley Road SE corner property  
line brass Plug concrete monument

46.687 Tie Pin or fence post Shott Place side rd

March 5 1909

Wheeler - Observer  
Ellsworth - Rod  
Thomas - Chair

+	B	d	BM	-	B	d	Elev
9.427	12.0	100.0	262116 Falcon Lewis	2009			Broadway + Falcon Sts SE cor inside property
4.089	11.0	117.0		5774			267.849 brass Plug concrete monument
5.774	11.0	117.0		4090			
2.008	11.0	100.0		9426			262116 262115 BM Start -0.001 = error
21.298				21299			
2.580	11.0	150.0	267.2180 Lewis	1094			
6.102	10.5	69.0	Ebis Man.	4134			270.172 Broadway + Ebis Sts wood ch Spike Pole grd
6.296	10.5	117.0		0475			275.993 Broadway + Jackdaw Sts wood ch Spike Pole grd Black
3.575	10.5	175.0		5877			273.491 Stockton + Jackdaw Sts wood ch Spike Pole Hunter + Jackdaw Sts wood flush walk in property
2.297	10.0	175.0		6912			269.076 brass Plug concrete monument
6.912	10.0	175.0		2296			
5.885	10.0	175.0		3585			273.720
3.195	10.5	182.0		5471			273.716 BM Jackdaw + Lewis -0.004 = error
36.842				30344			

+	B	d	BM	-	B
3.750	10.0	150.0	266.379 Ft. Stockton + Wetherby	4.183	
1.499	10.0	150.0		6.454	
3.377	10.0	100.0		4.627	
7.602	10.0	119.0		1.372	
16.228 <sup>✓</sup>				16.136 <sup>✓</sup>	
4.155	10.0	150.0	265.977 <sup>✓</sup> Ft. Stockton	6.260	
4.302	10.5	150.0	+ Howard	3.606	
7.980	10.5	100.0		0.430	
8.560	11.0	140.0		2.870	
24.997 <sup>✓</sup>				13.166 <sup>✓</sup>	

W & E Precise Level #15105  
Florida Rod

d Elev

265.987<sup>✓</sup>

265.971 BM Howard - Ft. Stockton  
- 0.016 = amt. Mtd. disturbed struck by grading plow

Sierra Vista - Altamira Place NW cor. flush walk on  
277.808 property brass Plug concrete monument

March 6 1909

Wheeler - Observer  
Ellsworth - Rod  
Thomas - Chain



+	B	d	BM	-	B
2.882	11.5	140.0	277.808	8570	
0.447	11.5	100.0	Sierra Vista + Altamira	7.997	
3.612	11.5	150.0		4.310	
6.269	11.0	150.0		4.164	
13.210				25.041	
2.410	10.0	96.0	46.687	9.471	
1.072	10.0	150.0	Tie In Shot Place Sep 29, 68	6.055	
4.595	10.0	150.0		5.454	
5.630	9.5	150.0		2.834	
1.826	10.0	150.0		6.470	
3.823	10.0	150.0		4.833	
5.150	10.0	150.0		4.602	
4.347	10.0	97.0		4.450	
28.853				44.164	

265.977

265.977 BM Start

± 0.000 = error

Mission Valley Rd. N side adjoining E line school property  
31.371 Brass Plug concrete monument

+	B	d	BM	-	B	d	Elev
3.988	10.0	150.0		5221			
4.310	10.0	150.0		5269			
4.198	10.0	150.0		5235			
4.725	10.0	150.0		5114			
5.016	10.0	104.0		4485			
4.475	10.5	150.0		3943			
26.712				29.767			

K+E Precise Level #15105

Florida Rod

Mission Valley Rd N side Eline Chandler Place Jap  
 27.784 Vegetable Garden brass Plug concrete monument  
 28316 Tie Pin Pole

March 7 1909

Wheeler - Observer  
 Ellsworth - Rod  
 Thomas - Chain

T	B	d	BM	-	B
2823	11.0	150.0	28316	5.299	
5330	10.5	150.0	Tie Tin Pole Page 72	5.220	
4814	10.0	100.0		5.194	
5284	10.0	129.0		3.987	
3484	9.0	150.0		5.231	
4553	9.5	150.0		5.012	
4759	9.5	150.0		5.250	
4375	10.0	150.0		5.678	
3951	10.0	70.0		3.858	
3664	9.0	150.0		5.610	
4623	9.0	150.0		4.440	
4435	9.0	150.0		4.602	
4946	9.5	141.0		5.229	
5520	10.0	150.0		5.570	
62561				70.180	

d Elev

Mission Valley Rd S side angle fence front G.A. Theuner Place  
26.867 brass Plug concrete monument

Mission Valley Rd. S side Elmer County Bar Farm inside  
22.960 property brass Plug concrete monument

20747 Tie Tin Pole Curve

+	B	d	BM	-	B
5.226	10.0	73.0	4.581		

d Elev

21.342

Mission Grade Rd E side intersection S Line Valley Rd  
inside Poor Farm brass Plug concrete monument

5.225	10.5	141.0	20.747	4.904
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Tie Pin Pole  
Curve Sec  
Pg. #73

4.685	10.5	102.0	3.470
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22.283

Mission Valley Rd Escandido Blvd near RR Spitta  
braced Pole (above rd)

4.335	10.5	103.0	5.258
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21.360

Tie Pin Pole

14.245

13.632

March 8 1909

K&amp;E Precise Level #15105

Florida Rod

Wheeler - Observer

Ellsworth - Rod

Thomas - Chair

High Wind

t	B	d	BM	-	B	d	Elev
4.835	11.5	150.0	21.360	5.670			
5.368	11.5	150.0	Tie Pt. Rto B 74	5.523			
5.705	11.0	150.0		3.816			
4.767	10.5	120.0		3.746			23.280 Esccondido Blvd w side 1st Flies River Spite
3.745	10.5	120.0		4.767			
3.797	10.5	150.0		5.690			
5.520	10.0	150.0		5.365			
5.644	10.0	150.0		4.810			
5.095	10.0	100.0		4.170			
3.464	9.0	100.0		4.705			
4.890	9.5	143.0		5.185			20.747 20.743 TP Start -0.004 = error
521.830				53447			
5.565	10.5	150.0	21.342	2.400			
7.647	10.5	100.0	Mission Grade Bar Farm	1.145			
13.212				3.545			

+	B	d	BM	-	B	d	Elev
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8.229	11.0	125.0		14.91			
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9.025	10.5	125.0		1.371			
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8.352	10.5	125.0		10.73			
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7.891	11.0	125.0		16.00			
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9.076	11.0	100.0		0.138			
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8.183	10.5	80.0		0.770			
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9.981	11.0	77.0		1.252			
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6.757

7.695

4.235	11.0	100.0	21.342	5.237			
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Mission Grade

Porfarm

4.210	11.5	91.0		3.765			
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8.445

9.004

84.063 Mission Grade sw side opp. Buchanan St Culvert

84.051 nr. bank brass plug concrete monument

-0.012 = error

20.783 Tie Pin "A"

March 11 1909

W. E. Precise Level #15705

Florida Rod

Wheeler - Observer

Ellsworth - Rod

Thomas - Chain



+	B	d	BM	-	B	d	Elev.
3.795	9.5	79.0		5.647			
1.074	9.0	91.0		9.679			
0.760	9.0	100.0		9.741			
0.925	9.0	71.0		8.753			
0.606	9.5	100.0		9.850			
0.210	10.0	72.0		8.094			
0.521	9.5	100.0		9.769			
0.369	10.0	85.0		9.411			
1.412	10.5	79.0		7.221			
9.472				78.165			

W.E. Precise Level #15705

Florida Rod

106.007 Tie Pin C' left in

March 15 1909

Wheeler - Observer  
Ellsworth - Rod  
Thomas - Chain



+	B	d	BM	-	B
0.913	11.5	68.0	106.007	8.250	
1.405	11.0	80.0	Tie Pin C Page 78	9.570	
1.573	11.0	62.0		8.015	
3.891				25.835	
3.396	10.0	150.0	20.783	4.620	
4.853	10.0	150.0	Tie Pin A Page 76	5.217	
4.382	9.5	100.0		5.070	
4.120	10.0	118.0		5.425	
4.880	10.5	150.0		5.253	
4.540	10.0	150.0		5.284	
4.700	10.0	150.0		5.637	
4.226	9.5	191.0		5.226	
4.228	10.0	150.0		4.282	
39.325				46.014	

d Elev

84051  
84063 BM Mission Grade + Buchanan  
+0.012 = error

Mission Valley Rd's side NE cor Bronner Place  
17.202 brass Plug concrete monument

Mission Valley Rd's side NE cor Stebbing Property  
14.148 brass Plug concrete monument

+	B	d	BM	-	B
4.720	10.5	150.0		5030	
3.940	10.5	100.0		5418	
7.563	11.0	69.0		0.374	
16.223				10.822	

W+E Precise Level #15105

Florida Rod

d Elev

19495 Tie Pin Pole "E"

March 16 1909

Wheeler - Observer  
 Ellsworth - Rod  
 Thomas - Chain

1458

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	99.98		100.00	0.44	100.00	0.87	99.99	1.31	89
1		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	15.23	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		