

NAME Euclid - Division

Class \_\_\_\_\_ Course \_\_\_\_\_ Party \_\_\_\_\_

BM & Check Levels.

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San Francisco, Calif.

1899

283

# FIELD NOTES

No. 403P

ESPECIALLY ADAPTED

TO THE USE OF

ENGINEERING STUDENTS

---

**EUGENE DIETZGEN Co.**

MANUFACTURERS

**DRAWING MATERIALS**

**MATHEMATICAL AND SURVEYING INSTRUMENTS**

**MEASURING TAPES**

CHICAGO    SAN FRANCISCO    NEW YORK  
NEW ORLEANS    PITTSBURGH



MICROFILMED

DEC 30 1964

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LEVELS  
EUCLID AVENUE  
SOUTH FROM CHURCHWARD

H.J. DeLaney  
Ed Culver  
W. Bunker  
Feb. 4 1927

			113.82
	10.45	124.27	
T.P.			0.57 123.70
	9.73	133.43	
B.M.			5.79 127.64
	10.57	138.21	
T.P.			1.18 137.03
	5.82	142.85	
T.P.			11.40 131.45
	0.01	131.46	
B.M.			6.24 125.22
	0.56	125.78	
T.P.			0.32 125.46
	11.57	137.03	
T.P.			0.98 136.05
	6.74	142.79	
B.M.			7.95 134.84
	2.12	136.96	
T.P.			10.26 126.70
	5.39	132.09	
T.P.			3.21 128.88
	4.31	133.19	
B.M.			8.92 124.27
			124.29.
	9.28	133.57	

T.P. Set end of day Feb. 3-'27 Book 273, Pg. 9

B.M. 2x2 Hub 75' R Sta. 30+50

B.M. 2x2 Hub 75' L Sta 38+00

B.M. 2x2 Hub 100' L Sta. 44+39.28

B.M. 2x2 Hub 75' SW of Angle of Euclid produced  
Corrected



		133.57		
T.P.			3.49	130.08
	5.34	135.42		
T.P.			1.48	133.94
	7.32	141.26		
B.M.			4.69	136.57
	8.91	145.48		
T.P.			4.07	141.41
	7.27	148.68		
B.M.			0.43	148.25
	6.10	154.35		
T.P.			0.67	153.68
	10.90	164.58		
B.M.			3.99	160.59
	11.78	172.37		
T.P.			0.47	171.90
	11.83	183.73		
B.M.			0.75	182.98
	11.66	194.64		
T.P.			0.89	193.75
	10.36	204.11		
T.P.			0.59	203.52
	11.33	214.85		
T.P.			0.54	214.31

6

H.T. DeLaney Insd.  
Ed Culver Red  
W. Bunker ch.  
Feb. 5 - 1927

B.M. 2x2" Hub 75' R Sta. 61+00

B.M. 2x2" Hub 75' L Sta. 69+00

B.M. 2x2" Hub 100' R Sta. 75+00

B.M. 2x2" Hub 75' L Sta. 80+00



			214.31
	10.74	225.05	
T.P.			0.75 224.30
	9.36	233.66	
B.M.			3.74 229.92
	3.37	233.29	
T.P.			11.25 222.04
	11.30	233.34	
T.P.			1.31 232.03
	12.22	244.25	
B.M.			0.83 243.42
	12.20	255.62	
T.P.			0.15 255.47
	12.04	267.51	
T.P.			0.60 266.91
	12.21	279.12	
B.M.			7.47 271.65
	11.90	283.55	
T.P.			0.13 283.42
	11.29	294.71	
T.P.			0.72 293.99
	11.46	305.45	
T.P.			0.13 305.32
	11.25	316.57	
T.P.			0.37 316.20

B.M. 2x2 Hub 75' L Sta 86+00

End of day 2-5-27

H. J. DeLaney  
Ed. Culver  
W. Bunker

B.M. 2x2 Hub 100' R. Sta. 96+90 small drain

B.M. 2x2 Hub 75' L Sta. 104+00



316.20

5.30 321.50

112.08<sup>70</sup>

9.38 312.12

B.M.

7.67 313.83

6" Concrete monument  
B.M. 2x2" Hub 75' R Sta. 111+00

For closure see X sec. notes Bk. #273  
H.T. DeLancy - Ins't  
Ed Culver - Red  
W. Bunker

R



X Sec - Line Change  
Euclid - Division

Lt E Rt.

4

Feb-10-27

Clark  
Culver

B.M 11.35 254.77 243.42  
11.75 266.03 0.49 254.28  
RT 99+50 371  
99+49 297

2"x2" hub 100' Rt Sta 96+90 Sec Page 2

H.I. - 266.0

2478	2504	2378	2390	2594	2606	2619	2692
18.7	15.6	14.2	7.0	6.6	5.4	0.1	+3.2
50	30	22	9	7	19	30	+8.4
2389	2448	2484	2500	2510	2573	2615	2646
271	21.2	17.6	16.0	12.3	10.7	9.5	+3.0
50	40	30	18	11	6	19	50

0.23 254.51 11.75 254.28

H.I. - 254.5

P.C 98+48.2

233.0	2352	2349	2429	2447	2481	2488	2518	2553	2609	2642	2653
21.5	29.3	19.6	11.6	9.8	6.4	5.7	2.7	+0.8	+6.4	+9.7	+10.8
79	68	50	30	19	12	9	15	30	50	50	50
231.2	233.8	230.0	236.0	239.1	240.5	243.8	244.1	245.5	248.3	253.2	262.2
23.3	30.9	24.1	18.5	15.4	14.0	10.7	9.0	6.2	+0.7	+7.7	
74	62	50	40	30	20	8	9	14	30	50	

98+00

97+50

0.43 243.49 11.45 243.06

H.I. - 243.5

97+50

228.1	221.5	221.3	229.6	241.4
15.4	22.0	16.2	13.9	2.1
59	50	41	30	4

97+10

227.1	220.3	226.7	235.5	237.5	237.2	241.6	243.5	245.8
16.4	23.2	16.8	8.0	6.0	6.3	1.9	0.0	+2.13
50	40	30	8	5	20	30	34	50

96+84

224.7	219.4	225.5	227.0	231.5	235.0	235.4	237.6
18.8	24.1	18.0	16.5	12.0	8.5	8.1	5.9
58	46	39	30	12	76	30	50

96+75

227.3	217.4	223.5	229.2	234.5	235.4	237.4
16.2	24.1	20.0	14.3	9.0	8.1	6.1
66	50	30	14	73	30	50

96+65

226.3	218.5	225.1	228.3	231.5	233.9	239.3
17.2	25.0	18.4	15.2	12.0	9.6	7.6
74	62	50	30	12	7	30

R

R







XSec - Line Change  
Euclid Division

222.36

Lt                      E                      Rt

H/I. 222.4

93+90

218.8  
3.6  
50

217.3  
5.1  
41

213.3  
9.1  
50

209.2  
13.2  
20

208.8  
13.6  
10

213.8  
8.6  
5

213.5  
8.9

216.0  
6.4  
23

220.4  
2.0  
30

226.2  
3.8  
50

93+84

219.2  
3.2  
50

217.3  
5.1  
40

214.4  
8.0  
30

212.0  
10.2  
20

208.5  
13.9  
8

208.3  
14.1

212.0  
10.4  
7

215.4  
7.0  
25

218.7  
3.7  
30

224.8  
2.4  
50

93+77

218.9  
3.5  
50

217.7  
4.7  
42

214.0  
8.4  
30

211.0  
11.4  
22

213.4  
9.0  
19

213.5  
8.9  
6

209.4  
13.0

209.0  
14.4

210.1  
11.7  
7

214.4  
17.0  
17

214.9  
8.0  
30

217.4  
5.0  
37

222.2  
0.2  
50

P.C. 93+72.47

217.8  
4.6  
50

212.1  
10.3  
30

214.0  
8.4  
17

213.5  
8.9  
10

210.5  
11.9

207.6  
14.8  
6

214.5  
7.5  
23

214.9  
7.5  
30

216.0  
6.4  
40

219.4  
3.0  
50

93+63

215.4  
2.0  
50

213.3  
7.1  
38

214.7  
7.7  
30

214.0  
8.4  
9

211.8  
10.6

207.3  
15.1  
10

214.7  
7.7  
26

215.0  
7.4  
30

215.3  
7.1  
38

218.6  
4.3  
43

220.8  
4.6  
50

93+50

217.6  
7.8  
50

219.0  
3.0  
48

217.1  
4.7  
30

217.0  
5.4  
26

215.6  
6.8  
21

215.0  
2.4  
8

214.2  
2.4  
8

211.9  
10.5  
8

207.0  
15.4  
18

210.9  
11.5  
26

212.4  
10.0  
30

214.6  
7.8  
37

215.2  
7.2  
48

217.6  
4.8  
53

P.T. 93+22.16

221.1  
11.0  
50

219.8  
2.6  
30

217.9  
4.5  
15

215.9  
6.5  
12

215.6  
6.8

214.0  
8.4  
6

213.4  
13.4  
30

206.4  
16.0  
41

213.4  
9.0  
53

93+00

221.8  
5.4  
50

224.1  
7.7  
30

219.6  
2.8  
10

217.4  
5.0  
6

216.9  
5.5

216.4  
6.0  
7

213.8  
8.6  
14

208.6  
13.8  
30

205.5  
16.9  
41

209.3  
13.1  
50

92+50

226.4  
4.0  
50

222.1  
9.3  
30

217.8  
4.6  
17

213.3  
7.1  
6

217.8  
4.6

217.0  
5.4  
8

213.5  
8.9  
19

209.9  
12.5  
30

206.0  
15.5  
41

204.6  
17.8  
47

207.0  
15.4  
50

P.C. 92+17.56

217.5  
4.9  
11

214.5  
7.9  
17

208.4  
13.8  
30

203.4  
19.0  
44

205.7  
16.7  
50

10.28      228.28      4.36      218.00

232.3  
+4.0  
50

228.0  
0.3  
30

233.7  
4.6  
17

H/I. 228.3  
219.2  
7.1  
6

92+50

11.03      232.99      6.32      221.96

239.3  
+6.3  
50

234.9  
+1.9  
50

228.5  
4.5  
8

228.4  
2.6  
2

222.9  
10.1

#1. (232.99)

92+17.56

BM

B

3.17

229.82

222 hub, 75 Lt Sta 86+00 Elev 229.92 see page 2 B



# Extra Sections -

## X Sec Euclid Division

7

Feb-10-27

Clark  
Culver  
Ryan

101+20

LT	£	RT
253.1	256.4	261.7
-13.3	-10.0	-4.7
<u>50</u>	<u>42</u>	<u>30</u>
		+1.8
		+5.0
		+5.5
		+8.5
		+7.2
		<u>30</u>
		+12.2
		<u>50</u>

+- Readings from £ Elev 101+00

102+65

262.9	269.5	274.5	276.0	279.9	279.5	282.4	282.9	286.6
-12.3	-5.7	-0.7	+0.8	+3.8	+4.3	+7.2	+7.7	+11.4
<u>50</u>	<u>30</u>	<u>18</u>	<u>9</u>	<u>18</u>	<u>18</u>	<u>23</u>	<u>30</u>	

+- Readings from £ Elev 103+00

105+34

287.9	287.1	288.6	289.4	289.8	288.6	287.9
+0.9	+0.7	+1.6	+2.4	+2.8	+1.6	+0.9
<u>50</u>	<u>40</u>	<u>30</u>		<u>30</u>	<u>43</u>	<u>50</u>

+- Readings from £ Elev 105+00

105+75

292.8	292.4	292.2	293.8	293.0	293.4	292.3	289.3
+2.4	+2.0	+1.8	+3.4	+2.6	+2.8	+1.9	-1.1
<u>50</u>	<u>30</u>	<u>15</u>	<u>3</u>		<u>23</u>	<u>30</u>	<u>50</u>

+- Readings from £ Elev 105+50

91+80

231.3	228.8	225.2	H.I. - 230.5
+0.8	-6.7	-5.3	
<u>42</u>	<u>30</u>	<u>7</u>	
			221.0
			9.5

91+80

H.I. = 220.2

220.1	218.9	208.1
0.1	6.3	12.1
<u>15</u>	<u>30</u>	<u>50</u>

89+00

H.I. = 223.3

218.3	217.6	215.9	215.2
5.0	5.7	7.4	8.1
<u>50</u>	<u>18</u>	<u>30</u>	<u>50</u>

89+36

210.8	219.5	219.3
2.5	8.8	4.0
	<u>30</u>	<u>50</u>

89+36

227.0	225.0	225.2	225.1
6.0	8.0	7.8	7.9
<u>50</u>	<u>30</u>	<u>21</u>	<u>4</u>

H.I. = 233.0

89+00

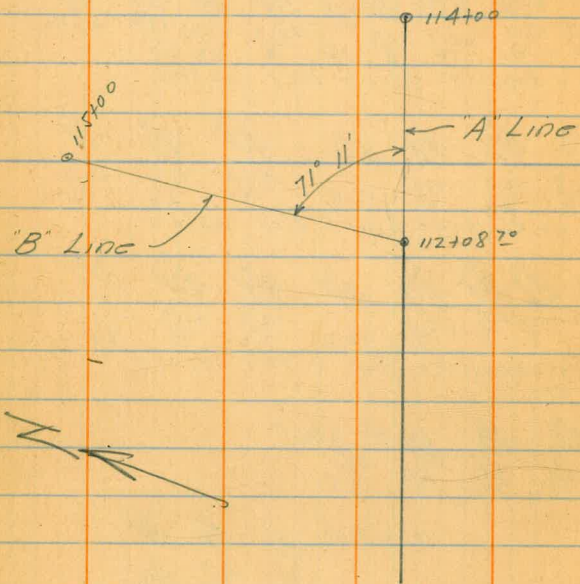
230.5	226.8	221.4	217.8
2.5	6.2	11.6	15.2
<u>50</u>	<u>30</u>	<u>17</u>	<u>8</u>

Ⓡ



4 for X Sec. End of Euclid Division

Feb-10-27  
Clark  
Culver  
Ryan



X-Secs on Pgs 9-10







X 5 sec "A" Line

B.M	0.52	312.64		312.12
				112+50
	0.54	301.48	11.70	300.94
				113+00
	0.19	289.66	12.01	289.47
				113+50
				13+65
				114+00
	11.43	300.79	0.30	289.36
	11.72	312.50	0.01	300.78
B.M			0.37	312.13

6" Conc. Mon Sta 112+08.20

H.I. 312.6

308.5	308.2	308.5	308.7	308.1
4.1	4.4	4.1	3.9	4.5
50	30		30	50

H.I. - 301.5

295.9	295.3	295.1	295.9	296.1	298.6	299.1	299.5
5.6	6.2	6.4	5.6	4.8	2.9	1.8	2.0
50	30	14		18	30	41	50

H.I. 289.7

282.7	283.2	283.2	281.7	281.8	281.0	281.3
7.0	6.5	6.5	8.0	7.9	8.7	8.4
50	30	21		19	30	50

277.6	276.4	276.5	276.8	277.0	276.9	276.5
12.1	13.3	13.2	12.9	12.7	12.8	13.2
50	30	20		23	30	50

270.5	270.9	270.0	269.4	267.7	266.5	266.4	264.0
19.2	18.8	19.7	20.3	22.0	23.2	23.3	24.8
50	40	30	15		12	30	50

B.M Elev-  
312.12

Feb-10-27  
Clark  
Culver  
Ryan







320.13

112+41<sup>E</sup> on Encanto at North line Division

Parallel to Division

313.9	311.9	310.5	309.1	306.9
6 <sup>2</sup>	8 <sup>2</sup>	9 <sup>6</sup>	11 <sup>2</sup>	13 <sup>2</sup>
27 <sup>2</sup>		5 <sup>2</sup>	27 <sup>2</sup>	37 <sup>2</sup>

112+50

314.7	314.4	313.2	311.9	310.1	307.9	306.2
5 <sup>2</sup>	5 <sup>2</sup>	7 <sup>1</sup>	8 <sup>2</sup>	10 <sup>2</sup>	11 <sup>1</sup>	14 <sup>2</sup>
35	25	9		5	25	35

113+00

11.70 308.43

317.7	315.9	315.2	314.5	311.9	311.1	308.9	308.1	306.4	304.7
2 <sup>2</sup>	4 <sup>2</sup>	4 <sup>2</sup>	5 <sup>6</sup>	8 <sup>2</sup>	9 <sup>2</sup>	11 <sup>2</sup>	12 <sup>2</sup>	13 <sup>2</sup>	15 <sup>2</sup>
15	50	35	25	1		6	20	25	35

11.88 320.31

K 320.31

113+50

317.2	316.1	315.7	311.5	307.7	307.0	304.6	304.0	295.8	271.3
3 <sup>2</sup>	4 <sup>2</sup>	5 <sup>2</sup>	8 <sup>2</sup>	12 <sup>2</sup>	12 <sup>2</sup>	15 <sup>2</sup>	16 <sup>2</sup>	24 <sup>2</sup>	29 <sup>2</sup>
50	35	25	6		12	19	25	45	60 55

113+85

316.5	314.1	309.3	306.6	306.3	305.6	302.3	301.0	296.3	290.9
3 <sup>2</sup>	6 <sup>2</sup>	11 <sup>2</sup>	13 <sup>2</sup>	14 <sup>2</sup>	14 <sup>2</sup>	18 <sup>2</sup>	19 <sup>2</sup>	24 <sup>2</sup>	30 <sup>2</sup>
35	25	4	2		10	25	31	40	60

114+00

315.7	313.7	309.1	306.9	306.5	305.7	302.3	302.2	298.3	291.5
4 <sup>2</sup>	6 <sup>2</sup>	11 <sup>2</sup>	13 <sup>2</sup>	13 <sup>2</sup>	14 <sup>2</sup>	18 <sup>2</sup>	18 <sup>2</sup>	19 <sup>2</sup>	24 <sup>2</sup>
35	25	5	2		11	21	25	33	40 60

114+50

315.5	314.6	314.3	311.6	309.5	309.2	306.1	302.5	299.2	298.3	291.1
5 <sup>2</sup>	5 <sup>2</sup>	6 <sup>2</sup>	8 <sup>2</sup>	10 <sup>2</sup>	11 <sup>2</sup>	14 <sup>2</sup>	17 <sup>2</sup>	20 <sup>2</sup>	22 <sup>2</sup>	25 <sup>2</sup>
35	25	20	2		14	25	37	42	55	62 78

115+00

316.7	316.5	316.4	314.7	312.7	312.0	312.5	310.5	298.8	296.3
3 <sup>2</sup>	3 <sup>2</sup>	3 <sup>2</sup>	5 <sup>2</sup>	7 <sup>2</sup>	8 <sup>2</sup>	7 <sup>2</sup>	9 <sup>2</sup>	17 <sup>2</sup>	21 <sup>2</sup>
35	25	19	1	7	5	18	25	50	58 73

R

K



115+30

316.8	317.3	316.9	314.8	313.6	313.8	311.2	308.3
3 <sup>5</sup> <sub>35</sub>	3 <sup>0</sup> <sub>25</sub>	3 <sup>4</sup> <sub>2</sub>	5 <sup>5</sup>	6 <sup>5</sup> <sub>8</sub>	6 <sup>5</sup> <sub>18</sub>	9 <sup>4</sup> <sub>25</sub>	15 <sup>0</sup> <sub>50</sub>

115+55

317.4	317.9	316.3	314.2	313.6	310.8	300.8	294.3	292.0
2 <sup>9</sup> <sub>35</sub>	2 <sup>4</sup> <sub>25</sub>	4 <sup>0</sup> <sub>2</sub>	6 <sup>1</sup>	6 <sup>7</sup> <sub>17</sub>	9 <sup>5</sup> <sub>25</sub>	20 <sup>0</sup> <sub>50</sub>	26 <sup>0</sup> <sub>58</sub>	28 <sup>0</sup> <sub>73</sub>

115+80

316.0	316.2	314.7	313.1	312.8	312.6	307	294.8	292.1	291.4
4 <sup>3</sup> <sub>35</sub>	4 <sup>1</sup> <sub>25</sub>	5 <sup>6</sup> <sub>9</sub>	7 <sup>2</sup> <sub>2</sub>	7 <sup>5</sup>	7 <sup>7</sup> <sub>15</sub>	13 <sup>2</sup> <sub>25</sub>	25 <sup>5</sup> <sub>55</sub>	28 <sup>2</sup> <sub>61</sub>	28 <sup>8</sup> <sub>79</sub>

7.77

312.54

7.77

320.31

116+15

317.5	316.0	314.4	313.3	312.3	312.3	311.9	310.6	308.1	296.4
5 <sup>8</sup> <sub>35</sub>	5 <sup>3</sup> <sub>31</sub>	5 <sup>2</sup> <sub>25</sub>	7 <sup>2</sup> <sub>6</sub>	8 <sup>0</sup> <sub>5</sub>	8 <sup>0</sup>	8 <sup>4</sup> <sub>19</sub>	9 <sup>7</sup> <sub>25</sub>	12 <sup>2</sup> <sub>34</sub>	23 <sup>7</sup> <sub>60</sub>

116+50

311.3	312.3	313.0	312.1	312.3	311.7	309.8	307.0	298.1
9 <sup>0</sup> <sub>35</sub>	8 <sup>8</sup> <sub>25</sub>	7 <sup>2</sup> <sub>10</sub>	8 <sup>2</sup> <sub>9</sub>	8 <sup>0</sup>	8 <sup>5</sup> <sub>15</sub>	10 <sup>5</sup> <sub>25</sub>	18 <sup>8</sup> <sub>35</sub>	22 <sup>2</sup> <sub>60</sub>

116+77

312.2	312.0	312.7	311.9	209.6
8 <sup>1</sup> <sub>35</sub>	8 <sup>2</sup> <sub>25</sub>	7 <sup>6</sup>	8 <sup>4</sup> <sub>15</sub>	10 <sup>7</sup> <sub>25</sub>

116+92

311.9	312.1	312.1	310.3	309.9	304.4	292.4
8 <sup>4</sup> <sub>35</sub>	8 <sup>2</sup> <sub>25</sub>	8 <sup>3</sup>	10 <sup>0</sup> <sub>6</sub>	10 <sup>4</sup> <sub>14</sub>	15 <sup>7</sup> <sub>25</sub>	27 <sup>2</sup> <sub>59</sub>

117+36

314.2	313.7	313.0	312.8	312.7	309.4	305.8	304.0	302.7	298.3	286.6	284.1	283.5
6 <sup>1</sup> <sub>35</sub>	6 <sup>6</sup> <sub>28</sub>	7 <sup>3</sup> <sub>27</sub>	7 <sup>5</sup> <sub>25</sub>	7 <sup>6</sup> <sub>16</sub>	10 <sup>9</sup> <sub>10</sub>	14 <sup>5</sup>	16 <sup>2</sup> <sub>4</sub>	17 <sup>6</sup> <sub>10</sub>	22 <sup>2</sup> <sub>25</sub>	32 <sup>7</sup> <sub>62</sub>	36 <sup>2</sup> <sub>65</sub>	37 <sup>8</sup> <sub>79</sub>

R

R



118+00

317.9	317.9	315.9	316.0	315.8	311.6	309.8	308.7	305.3	299.3
2 <sup>1</sup> <sub>35</sub>	2 <sup>2</sup> <sub>25</sub>	4 <sup>1</sup> <sub>22</sub>	4 <sup>3</sup> <sub>12</sub>	6 <sup>5</sup> <sub>3</sub>	8 <sup>1</sup>	10 <sup>5</sup> <sub>3</sub>	11 <sup>6</sup> <sub>13</sub>	15 <sup>0</sup> <sub>25</sub>	22 <sup>0</sup> <sub>57</sub>

118+35

318.7	318.0	318.0	317.0	316.7	314.0	313.1	311.8	309.3	306.2
1 <sup>6</sup> <sub>25</sub>	1 <sup>7</sup> <sub>25</sub>	2 <sup>3</sup> <sub>16</sub>	2 <sup>3</sup> <sub>13</sub>	3 <sup>1</sup>	5 <sup>7</sup> <sub>5</sub>	7 <sup>3</sup> <sub>20</sub>	8 <sup>5</sup> <sub>25</sub>	11 <sup>0</sup> <sub>25</sub>	14 <sup>4</sup> <sub>50</sub>

118+58

0.94 319.87

319.0	319.3	319.1	317.7	318.0	318.0	314.9	319.7	312.5
1 <sup>3</sup> <sub>25</sub>	1 <sup>2</sup> <sub>25</sub>	1 <sup>2</sup> <sub>8</sub>	2 <sup>6</sup> <sub>5</sub>	2 <sup>3</sup>	2 <sup>3</sup>	5 <sup>1</sup> <sub>9</sub>	6 <sup>6</sup> <sub>25</sub>	7 <sup>8</sup> <sub>50</sub>

11.77 331.14

118+77

319.7	319.5	319.3	314.4	318.4	316.8	315.7	314.0
11 <sup>1</sup> <sub>25</sub>	11 <sup>6</sup> <sub>25</sub>	11 <sup>8</sup> <sub>5</sub>	12 <sup>3</sup>	12 <sup>2</sup>	14 <sup>5</sup> <sub>25</sub>	15 <sup>1</sup> <sub>25</sub>	16 <sup>5</sup> <sub>50</sub>

119+10

321.9	322.3	322.0	322.0	321.0	321.3	321.5
9 <sup>2</sup> <sub>25</sub>	8 <sup>8</sup> <sub>25</sub>	9 <sup>1</sup>	9 <sup>1</sup>	10 <sup>1</sup> <sub>8</sub>	9 <sup>8</sup> <sub>25</sub>	10 <sup>1</sup> <sub>25</sub>

119+28

320.0	325.6	325.7	324.8	324.4	324.2	323.9	323.7	323.8
6 <sup>1</sup> <sub>25</sub>	5 <sup>5</sup> <sub>25</sub>	5 <sup>1</sup> <sub>17</sub>	6 <sup>3</sup> <sub>9</sub>	6 <sup>2</sup>	6 <sup>2</sup> <sub>8</sub>	7 <sup>2</sup> <sub>10</sub>	7 <sup>1</sup> <sub>25</sub>	7 <sup>3</sup> <sub>25</sub>

119+50

326.2	326.9	327.5	327.0	326.8	326.4	325.4	326.9	327.6
4 <sup>2</sup> <sub>25</sub>	4 <sup>2</sup> <sub>25</sub>	3 <sup>6</sup> <sub>18</sub>	4 <sup>1</sup>	4 <sup>2</sup> <sub>8</sub>	5 <sup>1</sup> <sub>10</sub>	5 <sup>5</sup> <sub>21</sub>	4 <sup>1</sup> <sub>25</sub>	5 <sup>5</sup> <sub>25</sub>

119+68

322.3	323.0	323.9	323.9	324.7	325.3	328.0	328.8	330.4
8 <sup>8</sup> <sub>25</sub>	8 <sup>1</sup> <sub>25</sub>	5 <sup>2</sup>	5 <sup>2</sup> <sub>5</sub>	6 <sup>1</sup> <sub>10</sub>	5 <sup>8</sup> <sub>20</sub>	2 <sup>5</sup> <sub>23</sub>	2 <sup>3</sup> <sub>25</sub>	1 <sup>0</sup> <sub>35</sub>

B

B



119+91

315.1	316.8	322.4	323.5	323.5	327.0	327.4	329.4
16 <sup>2</sup>	14 <sup>2</sup>	8 <sup>2</sup>	7 <sup>6</sup>	7 <sup>6</sup>	4 <sup>1</sup>	3 <sup>7</sup>	1 <sup>2</sup>
35	25		6	18	22	25	35

120+25

316.4	318.1	309.8	317.0	320.5	320.0	324.5	326.7
14 <sup>7</sup>	13 <sup>0</sup>	21 <sup>2</sup>	14 <sup>1</sup>	10 <sup>6</sup>	11 <sup>1</sup>	6 <sup>6</sup>	4 <sup>2</sup>
50	35	25		10	20	25	35

6.60 324.54 B.M.

6.60 331.14

on R.P.P.O.T. 65' R.T. 119+20

\* 323.64

old track

10.67 320.47

3.17 323.64

120+50

302.0	305.0	306.7	311.5	314.0	317.4	318.0	321.0
21 <sup>6</sup>	18 <sup>6</sup>	16 <sup>7</sup>	12 <sup>1</sup>	9 <sup>6</sup>	6 <sup>0</sup>	5 <sup>6</sup>	2 <sup>6</sup>
50	35	25		8	15	25	35

120+80

301.1	306.2	310.9	313.4	314.9	317.0	317.0	319.7
22 <sup>5</sup>	17 <sup>4</sup>	12 <sup>7</sup>	10 <sup>2</sup>	7 <sup>2</sup>	6 <sup>6</sup>	6 <sup>6</sup>	4 <sup>2</sup>
50			11	17	25	29	35

121+40

300.3	306.9	314.2	316.3	318.1	318.7	322.2	324.0
23 <sup>3</sup>	16 <sup>7</sup>	9 <sup>6</sup>	7 <sup>3</sup>	5 <sup>5</sup>	4 <sup>2</sup>	1 <sup>4</sup>	10 <sup>4</sup>
50	25		8	12	20	25	35

121+61

301.8	307.4	313.7	314.6	317.8	318.6	321.1	324.1
21 <sup>8</sup>	16 <sup>2</sup>	9 <sup>2</sup>	9 <sup>0</sup>	5 <sup>8</sup>	5 <sup>0</sup>	2 <sup>5</sup>	10 <sup>4</sup>
50	25	6		12	22	25	35

121+90

304.1	307.0	313.2	316.4	316.9	318.9	320.8	321.9
19 <sup>5</sup>	16 <sup>6</sup>	10 <sup>4</sup>	7 <sup>2</sup>	6 <sup>7</sup>	4 <sup>7</sup>	2 <sup>8</sup>	1 <sup>7</sup>
40	25		11	22	25	29	35



323 69

122+10

306.1	307.5	312.1	310.2	310.9	317.4	317.4	319.6
17 <sup>5</sup>	16 <sup>1</sup>	11 <sup>5</sup>	8 <sup>4</sup>	7 <sup>7</sup>	6 <sup>2</sup>	6 <sup>3</sup>	4 <sup>0</sup>
35	25		12	21	23	25	35

122+50

306.5	308.6	313.5	314.7	317.4	319.3		
17 <sup>1</sup>	15 <sup>0</sup>	10 <sup>1</sup>	8 <sup>7</sup>	6 <sup>0</sup>	4 <sup>3</sup>		
35	25		20	25	35		

122+75

306.7	308.5	312.8	313.7	314.2	317.1	319.8	
16 <sup>9</sup>	15 <sup>1</sup>	10 <sup>8</sup>	9 <sup>7</sup>	9 <sup>4</sup>	6 <sup>5</sup>	3 <sup>8</sup>	
35	25		8	20	25	35	

123+40

303.3	304.8	308.6	309.3	310.5	314.4	316.5	
20 <sup>3</sup>	18 <sup>8</sup>	15 <sup>0</sup>	14 <sup>3</sup>	13 <sup>1</sup>	9 <sup>2</sup>	7 <sup>1</sup>	
35	25		3	19	25	35	

10.31 313.33

0.20 313.53

123+67

T 313.53							
300.2	301.4	304.7	305.9	306.3	308.7	310.9	
13 <sup>3</sup>	12 <sup>1</sup>	8 <sup>6</sup>	7 <sup>6</sup>	7 <sup>2</sup>	4 <sup>8</sup>	2 <sup>6</sup>	
35	25		5	21	25	35	

124+00

295.6	296.7	300.3	304.8	302.4	302.7	306.2	307.9
17 <sup>9</sup>	16 <sup>8</sup>	13 <sup>3</sup>	12 <sup>7</sup>	11 <sup>1</sup>	10 <sup>8</sup>	7 <sup>3</sup>	5 <sup>6</sup>
35	25		4	8	21	25	35

124+13

293.8	295.0	299.8		301.3	301.4	305.0	307.2
19 <sup>7</sup>	18 <sup>5</sup>	13 <sup>7</sup>		12 <sup>3</sup>	12 <sup>1</sup>	8 <sup>5</sup>	6 <sup>5</sup>
35	25			7	21	25	35

11.33 302.20

0.26 302.46

124+70

T 302.46							
288.1	289.5	293.1	294.9	296.6	296.7	298.7	301.0
14 <sup>3</sup>	12 <sup>9</sup>	9 <sup>3</sup>	7 <sup>5</sup>	6 <sup>8</sup>	5 <sup>7</sup>	3 <sup>7</sup>	0 <sup>8</sup>
35	25		7	24	28	28	35

R

R



125+00						246.0	287.8	291.8	392.8	392.0	395.8	397.0	
						16 <sup>±</sup>	14 <sup>±</sup>	10 <sup>±</sup>	9 <sup>±</sup>	10 <sup>±</sup>	6 <sup>±</sup>	5 <sup>±</sup>	
						25	25		15	19	25	35	
125+50			11.52	290.74		381.7	383.5	287.4	386.2	287.0	289.3	290.0	291.8
						20 <sup>±</sup>	19 <sup>±</sup>	15 <sup>±</sup>	14 <sup>±</sup>	15 <sup>±</sup>	13 <sup>±</sup>	12 <sup>±</sup>	10 <sup>±</sup>
						25	25		19	21	25	27	35
	0.40	291.34						π 291.34					
126+00			11.29	280.05		275.0	276.3	279.5	281.1	284.3	289.3		
						16 <sup>±</sup>	15 <sup>±</sup>	11 <sup>±</sup>	10 <sup>±</sup>	9 <sup>±</sup>	7 <sup>±</sup>		
						25	25		22	25	35		
	0.34	280.39						π 280.39					
126+50			11.75	268.64	B.M. - 1x2	265.0	269.7	272.8	275.1	276.8			
					80' RA 127+25	12 <sup>±</sup>	10 <sup>±</sup>	7 <sup>±</sup>	5 <sup>±</sup>	3 <sup>±</sup>			
						25	25		25	35			
	0.64	269.28						π 269.28					
127+00						264.0	264.4	266.2	268.2	267.9	268.2		
						5 <sup>±</sup>	4 <sup>±</sup>	3 <sup>±</sup>	1 <sup>±</sup>	1 <sup>±</sup>	1 <sup>±</sup>		
						25	25		18	25	35		
127+50						262.3	263.0	264.0	264.3	264.4			
						7 <sup>±</sup>	6 <sup>±</sup>	5 <sup>±</sup>	5 <sup>±</sup>	4 <sup>±</sup>			
						25	25		25	35			
128+00						260.6	261.1	261.7	262.3	262.9			
						8 <sup>±</sup>	8 <sup>±</sup>	7 <sup>±</sup>	7 <sup>±</sup>	6 <sup>±</sup>			
						25	25		25	35			
128+50			11.34	257.94		258.1	258.5	259.7	260.1	260.5			
						11 <sup>±</sup>	10 <sup>±</sup>	9 <sup>±</sup>	9 <sup>±</sup>	8 <sup>±</sup>			
						25	25		25	35			
	0.59	258.53											

B

B



129+00

254.7 254.9 256.2 256.2 257.3 257.6  
 $\frac{3^{\circ}}{35}$   $\frac{3^{\circ}}{25}$   $\frac{2^{\circ}}{25}$   $\frac{2^{\circ}}{13}$   $\frac{1^{\circ}}{25}$   $\frac{0^{\circ}}{35}$

129+50

250.8 250.9 252.1 252.0 253.0 253.4  
 $\frac{7^{\circ}}{35}$   $\frac{7^{\circ}}{25}$   $\frac{6^{\circ}}{25}$   $\frac{6^{\circ}}{11}$   $\frac{5^{\circ}}{25}$   $\frac{5^{\circ}}{35}$

130+00

245.9 246.2 248.7 248.4 249.5 249.9  
 $\frac{12^{\circ}}{35}$   $\frac{12^{\circ}}{25}$   $\frac{9^{\circ}}{25}$   $\frac{10^{\circ}}{13}$   $\frac{9^{\circ}}{25}$   $\frac{8^{\circ}}{35}$

130+30

244.7 245.2 247.1 247.3 247.8 248.5  
 $\frac{13^{\circ}}{35}$   $\frac{13^{\circ}}{25}$   $\frac{11^{\circ}}{25}$   $\frac{11^{\circ}}{20}$   $\frac{10^{\circ}}{25}$   $\frac{10^{\circ}}{35}$

130+50

243.3 244.7 245.9 247.0 247.1 249.1 249.5  
 $\frac{15^{\circ}}{35}$   $\frac{13^{\circ}}{25}$   $\frac{12^{\circ}}{16}$   $\frac{11^{\circ}}{25}$   $\frac{11^{\circ}}{19}$   $\frac{9^{\circ}}{25}$   $\frac{9^{\circ}}{35}$

11.12 247.41

216 249.57

130+83

238.6  $\Sigma$  249.57  
 241.0 241.4 238.3 240.2 242.4 244.0 245.8 246.8 247.8  
 $\frac{8^{\circ}}{90}$   $\frac{8^{\circ}}{76}$   $\frac{11^{\circ}}{63}$   $\frac{11^{\circ}}{64}$   $\frac{9^{\circ}}{60}$   $\frac{7^{\circ}}{25}$   $\frac{5^{\circ}}{25}$   $\frac{3^{\circ}}{25}$   $\frac{1^{\circ}}{50}$

130+95

242.5 241.7 238.6 239.0 240.3 241.5 242.1 243.8 244.8 244.8 246.0 247.0  
 $\frac{7^{\circ}}{100}$   $\frac{7^{\circ}}{72}$   $\frac{11^{\circ}}{70}$   $\frac{10^{\circ}}{65}$   $\frac{9^{\circ}}{55}$   $\frac{8^{\circ}}{25}$   $\frac{7^{\circ}}{16}$   $\frac{5^{\circ}}{9}$   $\frac{4^{\circ}}{25}$   $\frac{3^{\circ}}{35}$   $\frac{2^{\circ}}{50}$

131+00

238.5 239.2  
 244.1 242.0 238.7 241.6 243.5 244.6 244.8 245.8 246.6  
 $\frac{5^{\circ}}{100}$   $\frac{7^{\circ}}{65}$   $\frac{11^{\circ}}{55}$   $\frac{10^{\circ}}{25}$   $\frac{10^{\circ}}{18}$   $\frac{8^{\circ}}{13}$   $\frac{6^{\circ}}{13}$   $\frac{5^{\circ}}{9}$   $\frac{5^{\circ}}{25}$   $\frac{4^{\circ}}{35}$   $\frac{3^{\circ}}{50}$

B

R



249.57

131+05

245.0	242.2	240.8	239.1	237.2	241.8	243.0	244.2	244.3	246.3
46	74	88	105	104	78	66	54	53	32
86	58	25	18	14	9		9	25	50

131+17

244.9	242.5	242.0	241.1	239.4	239.3	242.6	244.1	247.0
47	71	76	85	101	102	72	55	26
78	50	25	14	10	6		25	75

131+39

244.8	243.6	243.2	242.2	239.4	239.5	241.8	243.5	244.9	246.5	
48	60	64	71	102	101	78	61	43	31	
50	41	25	15	7	5		25	42	50	100

131+46

245.2	242.8	242.2	239.4	242.6	242.6	243.8	245.9
44	58	74	102	70	70	68	57
50	25	7		13	25	50	100

131+55

245.9	244.3	243.4	242.0	239.6	240.3	240.3	242.2	244.5	245.8
37	53	62	76	102	92	92	72	51	38
50	25	6		7	25	60	64	80	100

131+61

246.4	245.0	243.6	242.6	240.0	240.5	242.5	240.0	240.5	240.1	240.5	240.1
52	66	60	71	96	91	71	73	93	91	71	44
50	25		18	25	38	39	74	78	81	85	100

131+65

247.0	245.9	244.1	242.7	242.5	240.7	240.8	244.0
26	42	55	69	71	89	88	55
50	25		25	84	86	92	100

0.72      248.85      8M. 182      50' 14" 131+85

11.31      260.16

132+00

249.6	249.4	248.6	247.0	246.3
105	107	115	121	138
85	25		25	35

B

K



260.16

132+50

257.3	254.0	253.8	252.3	251.9
$\frac{5^8}{95}$	$\frac{6^1}{25}$	$\frac{6^2}{25}$	$\frac{7^8}{25}$	$\frac{8^1}{35}$

133+00

258.0	257.8	257.8	257.0	256.5
$\frac{2^1}{35}$	$\frac{2^8}{25}$	$\frac{2^2}{25}$	$\frac{3^1}{25}$	$\frac{3^6}{35}$

0.35 259.81

10.87 270.68

133+50

$\pi$ 270.68				
261.5	261.5	261.4	260.9	260.6
$\frac{9^2}{35}$	$\frac{9^2}{25}$	$\frac{9^3}{25}$	$\frac{9^8}{25}$	$\frac{10^1}{35}$

134+00

265.0	264.9	264.7	264.1	263.8
$\frac{5^7}{35}$	$\frac{5^8}{25}$	$\frac{6^0}{25}$	$\frac{6^5}{25}$	$\frac{6^8}{35}$

134+50

268.7	268.4	268.1	267.1	266.7
$\frac{2^0}{35}$	$\frac{2^2}{25}$	$\frac{2^5}{25}$	$\frac{3^6}{25}$	$\frac{4^0}{35}$

0.86 269.82

11.45 281.27

135+00

$\pi$ 281.27				
272.8	272.6	271.4	270.2	269.4
$\frac{8^5}{35}$	$\frac{8^2}{25}$	$\frac{9^7}{25}$	$\frac{11^1}{25}$	$\frac{11^2}{35}$

135+50

277.3	276.9	276.3	272.5	271.5
$\frac{4^2}{35}$	$\frac{4^4}{25}$	$\frac{6^0}{25}$	$\frac{8^8}{25}$	$\frac{9^8}{35}$

135+72

274.6	273.9	276.4	274.0	273.0
$\frac{1^7}{35}$	$\frac{2^4}{25}$	$\frac{4^2}{25}$	$\frac{7^3}{25}$	$\frac{8^3}{35}$

R

R



281.27

135+90

1.22

280.05

283.5 281.8 277.7

276.7

275.9

274.5

22<sup>3</sup>10<sup>5</sup>

36

46

58

68

35

25

8

25

35

11.60

291.65

286.1

285.3

282.7

π 291.65

279.7

278.0

276.7

55

68

88

117

136

149

35

25

16

25

35

136+18

288.6

287.4

284.8

282.1

281.4

38

48

68

95

102

35

25

25

35

136+48<sup>19</sup>

291.8

290.4

287.4

286.3

284.8

06

13

43

63

68

35

25

25

35

136+48<sup>16</sup>

2.21

289.44

π 298.16

293.1

292.4

290.5

287.8

286.9

58

57

76

88

95

35

25

25

35

137+00

58

137+50

23

138+00

45

5.22

292.94 = 292.77

BN R.P.POT National Ave

B

K



