

309

400
LEVEL

F.B. 309-

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

MINUTES	LKS.	MINUTES	LKS.	309	LKS.
1.....	2 $\frac{1}{3}$	21.....	49	41.....	95 $\frac{2}{3}$
2.....	4 $\frac{2}{3}$	22.....	51 $\frac{1}{3}$	42.....	98
3.....	7	23.....	53 $\frac{2}{3}$	43.....	100 $\frac{1}{3}$
4.....	9 $\frac{1}{3}$	24.....	56	44.....	102 $\frac{2}{3}$
5.....	11 $\frac{2}{3}$	25.....	58 $\frac{1}{3}$	45.....	105
6.....	14	26.....	60 $\frac{2}{3}$	46.....	107 $\frac{1}{3}$
7.....	16 $\frac{1}{3}$	27.....	63	47.....	109 $\frac{2}{3}$
8.....	18 $\frac{2}{3}$	28.....	65 $\frac{1}{3}$	48.....	112
9.....	21	29.....	67 $\frac{2}{3}$	49.....	114 $\frac{1}{3}$
10.....	23 $\frac{1}{3}$	30.....	70	50.....	116 $\frac{2}{3}$
11.....	25 $\frac{2}{3}$	31.....	72 $\frac{1}{3}$	51.....	119
12.....	28	32.....	74 $\frac{2}{3}$	52.....	121 $\frac{1}{3}$
13.....	30 $\frac{1}{3}$	33.....	77	53.....	123 $\frac{2}{3}$
14.....	32 $\frac{2}{3}$	34.....	79 $\frac{1}{3}$	54.....	126
15.....	35	35.....	81 $\frac{2}{3}$	55.....	128 $\frac{1}{3}$
16.....	37 $\frac{1}{3}$	36.....	84	56.....	130 $\frac{2}{3}$
17.....	39 $\frac{2}{3}$	37.....	86 $\frac{1}{3}$	57.....	133
18.....	42	38.....	88 $\frac{2}{3}$	58.....	135 $\frac{1}{3}$
19.....	44 $\frac{1}{3}$	39.....	91	59.....	137 $\frac{2}{3}$
20.....	46 $\frac{2}{3}$	40.....	93 $\frac{1}{3}$	60.....	140

TABLE FOR RUNNING ON SLOPES.

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

Chas. Taylor
Dwyer

Intersection of Newport st
Ocean Beach

Counts 7th st

156 1460

1304

Bm 2
Newport

W. line of

Bacon

2nd

34

11.2

2nd

POSTED

30

11.6

24

12.2

6

23

11.1

7

25

11.1

6

33

11.3

52

32

11.3

50' W. of

2nd st

52

40

10.6

6

46

10.0

4

49

9.7

6

47

9.9

4

56

62

53

2nd

58

10.8

14.60

100' w of Bacon

72 47 9.9 ✓

66 46

66 44

6 50 9.6

6 48

66 47

52 46 10.0 ✓

150'

52 54 9.2 ✓

66 51

6 52

6 53 9.1

6 54

66 53

72 53 9.3 ✓

14.60

200' w of 2 vol. st.

72 62 8.4 ✓

66 62

6 60

6 64 8.2

6 60

66 POSTED 58

52 57 8.9 ✓

200' w of 2 vol. st.

52 62 8.4 ✓

66 63

6 66

6 70 7.6

6 71

66 68

72 69 7.7 ✓

14.60

Bacon

300

W 4

2

212

74

7.2

bb

73

7

71

b

74

7.2

7

70

bb

66

S2

69

7.7

TP

860

1686

6.34

8.6

350

W

S2

86

8.3

bb

89

7

9.1

b

93

7.6

7

95

bb

97

212

93

7.6

1686

3

400

W 4

2

212

9.0

7.9

bb

88

7

85

b

87

8.2

7

80

bb

78

S2

74

9.5

450

W 4

2

S2

58

11.1

bb

59

7

64

b

73

9.6

7

78

bb

79

212

78

9.1

1686

Bacon

500' W 4

NL	6.8	10.1
SL	8.5	
"	1.8	
6	7.2	9.7
"	6.4	
SL	3.8	
SL	3.2	13.7
525-		
SL	1.00	15.9
SL	1.5	
"	3.6	
6	8.5	8.4
"	6.8	
SL	3.4	
NL	3.8	13.1

1686

Newport

4

500' W 4

2 mi = Ocean Bank

NL	10.0	= Beach 6.9
SL	13.0	= " 3.9
Bm	6.56	1960 13.04
E Lin	2.0	Bacon (60)
NL	7.7	11.9
SL	7.6	
"	7.4	
6	7.7	11.9
"	7.2	
SL	6.9	
SL	7.0	12.6

1960

Bacon

50' E of 2nd st

SL	6.2	13.4 ^v
bl	6.4	
y	6.3	
b	6.4	13.2
y	7.0	
bl	6.8	
SL	6.7	12.9 ^v

100' E of 2nd st

SL	6.4	13.2
bl	6.1	
y	6.2	
b	6.1	13.5
y	6.1	
bl	5.7	
SL	5.7	13.9

1960

Stewart

5

150' E of 2nd st

SL	5.5	14.1
bl	5.7	
y	5.6	
b	5.9	13.7
y	5.7	
bl	5.7	
SL	5.9	13.7

200' E of 2nd st

SL	5.7	13.9
bl	5.9	
y	5.6	
b	5.6	14.0
y	5.4	
bl	5.2	
SL	5.2	14.4

1960

Bacon

250' E of

2nd st

S2 48 14.8

H 48

y 50

b 52 14.4

y 50

H 50

S2 56 14.0

300' E of

2nd st

H2 51 14.5

H 50

y 46

b 48 14.8

y 45

H 46

S2 45 15.1

1960

Newport

250' E of

2nd st

6

S2 41 15.5

H 43

y 45

b 48 14.8

y 47

H 47

H2 49 14.7

400' E of

2nd st

H2 44 15.2

H 44

y 43

b 43 15.3

y 38

H 41

S2 40 15.6

1760

Bacon

450

C4

2nd 25

S2

34 16.2

H

35

4

39

6

40 15.6

5

38

H

38

S2

40 15.6

500

C4

2nd 25

S2

35 16.1

H

34

5

32

6

35 16.1

7

32

H

20

S2

30 16.6

TIP

647

20.12

2,95 16.65

23.12

Newport

7

550

C4

2nd 25

S2

61 17.0

H

61

4

62

6

66 16.5

7

64

H

62

S2

62 16.9

600' S = W side 34 25 (60')

S2

64 16.7

H

60

5

60

6

62 16.9

7

57

H

58

S2

58 17.3

2312

Ediney

Cable

34

st

SL

5.3

17.8

bl

5.2

y

5.5

b

5.8

17.3

y

5.4

bl

5.6

rd

5.55

17.91 on 8/4
17.57 on 8/5
new test

50' E of

3 d

st

nz

5.0

18.1

bl

5.0

y

5.1

b

5.2

17.9

y

4.9

bl

4.9

SL

4.8

18.3

2312

new test

8

100' E of

3 d

st

SL

4.3

18.8

bl

4.4

y

4.3

b

4.5

18.6

y

4.6

bl

4.7

rd

4.5

18.6

150' E of

3 d

st

nz

4.0

19.1

bl

4.0

y

3.8

b

4.5

19.1

y

4.0

bl

4.0

SL

3.9

19.2

2512

200' E of cable

S2 33 19.8

bl 33

y 33

b 35 19.6

y 32

bl 30

S2 33 19.8

TP 820 2805- 327 19.85

N2 250' 327 78 20.3

bl 77

y 77

b 77 20.4

y 76

bl 77

S2 78 20.3

2805-

300' E of

S2 68 21.3

bl 70

y 70

b 70 21.1

y 68

bl 71

N2 71 21.0

350' E of

N2 63 21.8

bl 61

y 62

b 65 21.6

y 62

bl 62

S2 60 22.1

Newport

9

2805

400'

E of

Cable

34

at

S2

55

22.6

bl

55

y

57

b

57

22.4

y

56

bl

57

S2

59

22.2

450'

E of

34

at

S2

51

23.0

bl

51

y

51

b

53

22.8

y

47

bl

48

S2

48

23.3

2805

500'

E of

34

at

S2

43

23.8

bl

43

y

42

b

45

23.6

y

POSTED 47

bl

44

S2

46

23.5

550'

E of

34

at

S2

39

24.2

bl

41

y

37

b

38

24.3

y

37

bl

37

S2

36

24.5

10

2803-

DE FOE

600' E = W 2 of ~~444~~ 1460'

S2 30 25.1

bl 29

y 30

b 31 25.0

y 31

bl 31

h2 320 24.9

TR 860 33.57 3.20 24.91

① S2 8.20 4.20 7.8 25.7

bl 7.7 25.8

y 7.7 25.8

b 7.7 25.8

y 7.5 26.0

bl 7.4 26.1

S2 7.4 26.1

3351

Newport

11

350' 2.0 4.2

S2 6.6 26.9

bl 6.7 26.8

y 6.7 26.8

b 7.0 26.5

y 6.8 26.7

bl 6.8 26.7

h2 6.8 26.7

100' 8.0 4.2 2.4

h2 5.9 27.6

bl 5.8 27.7

y 5.8 27.7

b 6.1 27.4

y 5.8 27.7

bl 5.9 27.6

S2 5.9 27.6

335-1

DEFOE

150' E of 452 21

SL 49 28.6

bl 49 28.6

y 49 28.6

b 50 28.5

y 48 28.7

bl 48 28.7

SL 48 28.7

200' E of 452 21

SL 36 29.9

bl 36 29.9

y 37 29.8

b 37 29.8

y 37 29.8

bl 38 29.7

SL 37 29.8

335-1

Newport

12

250' E of 452 21

SL 26 30.9

bl 24 31.1

y 23 31.2

b 24 31.1

y 22 31.3

bl 22 31.3

SL 25 31.0

TP 11.24 4234 243 31.08

300' E of 452 21

SL 98 32.5

bl 98 32.5

y 98 32.5

b 100 32.3

y 100 32.3

bl 104 31.9

SL 105 31.8

4234

350' E of 4th st

SL	95	32.8
bl	92	33.1
y	89	33.4
b	89	33.4
y	85	33.8
bl	84	33.9
h2	85	33.8

400' E of 4th st

h2	69	35.4
bl	71	35.2
y	75	34.8
b	78	34.5
y	78	34.5
bl	78	34.5
SL	77	34.4

4239

Newport

450' E of 4th st 13

SL	63	36.0
bl	59	36.4
y	56	36.7
b	55	36.8
y	54	36.9
bl	54	36.9
h2	53	37.0

500' E of 4th st

h2	48	39.5
bl	50	39.3
y	52	39.1
b	55	38.8
y	56	38.7
bl	58	38.5
SL	60	38.3

		4234		
	550'	E of	W 2 of	21
SL			17	40.6
bl			12	41.1
y			10	41.3
b			0.6	41.7
TP	11.93	5321	106	41.28
y			11.5	41.7
bl			11.2	42.0
SL			11.1	42.1
	600'	E =	W 2 of	21
SL			863	44.58
bl			9.1	44.1
y			9.2	44.0
b			9.3	43.9
y			9.6	43.6
bl			9.6	43.6
SL			9.6	43.6

		5321		
	Edin of	churo	14	
SL		59	47.3	
bl		59		
y		59		
b		59	47.3	
y		59		
bl		59		
SL		59	47.6	
	50'	E of	S-in	21
SL			23	50.9
bl			25	
y			26	
b			26	50.6
y			28	
bl			25	
SL			27	50.5
TP	11.75	6245	257	50.70

62.45

	100'	E of	Chers	
SL			73	55.2
bl			74	
y			80	
b			79	54.6
y			79	
bl			81	
SL			83	54.2

	150'	E of	5-12	21
SL			49	57.6
bl			44	
y			40	
b			38	58.7
bl			34	
BL			32	
SL			34	59.1

TP 1128 72.95 0.80 61.65

72.95

new part

15

	200'	E of	5-12	21
SL			92	63.7
bl			95	
y			100	
b			109	62.0
y			109	
bl			111	
SL			115	61.4

	250'	E of	5-12	21
SL			80	64.9
bl			73	
y			68	
b			64	66.3
y			58	
BL			55	
SL			49	68.0

TP 1128 83.06 1.25 71.68

8306

300

E of

Elevs

5 ft at

SL

10.5

72.6[✓]

bl

11.0

y

11.5

b

12.5

70.8

y

13.0

bl

13.6

nz

14.0

69.1[✓]

350

E of

5 ft at

SL

9.2

73.9[✓]

bl

9.3

y

9.1

b

8.8

74.3

y

8.5

bl

7.7

SL

6.1

77.0[✓]

8306

new lat

16

400

E of

5 ft at

SL

1.2

81.9[✓]

bl

3.0

y

3.9

b

4.0

79.1

TP

12.87

92.03

2.90

79.16

y

13.3

bl

13.3

nz

13.4

78.6

450

E of

5 ft at

nz

7.5

84.5[✓]

bl

7.6

y

7.8

b

7.7

84.3

y

6.9

bl

4.5

SL

2.8

89.2[✓]

TP

12.37

103.82

0.58

91.45

10382

500'

E of

Chico

~~500'~~ 24

S2

83

95.5

bl

87

v

92

b

101

93.7

y

105

bl

107

N2

111

92.7

550'

E of

500' 24

N2

91

99.7

bl

37

v

35

b

34

100.4

y

38

bl

42

S2

36

100.2

T.D

1266

113.48

1.00

102.82

115.48

Newport

17

600'E = w. line

Froude

~~500'~~ 24

S2

10.0

105.5

bl

102

v

104

b

106

104.9

y

107

bl

110

N2

1090

104.6

Newport 6+

Newport

800' of

600'

24

N2

7.6

107.9

bl

6.6

v

6.3

b

6.0

109.5

y

5.2

bl

5.0

S2

3.0

112.5

T.D

1221

124.68

30.1

112.47

124.68

25'

E of

Gravide

6th st

SL

27

113.0

bl

112

y

121

b

123

112.4

y

122

bl

122

SL

133

111.4

50'

E of

6th st

SL

107

114.0

bl

102

y

100

b

102

114.5

y

102

bl

97

SL

72

117.5

124.68

Newport

18

75'

E of

6th st

SL

56

121.1

bl

48

y

58

b

64

118.3

y

70

bl

80

SL

87

116.0

100'

E of

6th st

SL

43

120.4

bl

38

y

35

b

31

121.6

y

22

bl

18

SL

0.6

124.1

TP

1259

13660

0.67

124.01

13660

125' E of Grande

SL	10.0	126.6
bl	10.9	
h	11.5	
b	12.2	124.4
bl	12.5	
bl	13.0	
SL	14.0	122.6
150' E of		
SL	11.5	125.1
bl	10.0	
h	10.7	
b	9.5	127.1
h	8.7	
bl	7.8	
SL	6.8	129.8

13660

Newport

19

175' E of		
SL	4.3	132.3
bl	5.8	
h	6.8	
b	8.0	128.6
h	8.1	
bl	9.0	
SL	9.1	127.5
200' E of		
SL	7.6	129.0
bl	7.9	
h	7.0	
b	6.0	130.6
h	5.6	
bl	1.7	
SL	0.1	136.5
TP	12.95	148.41
	0.64	133.76

14841

Fronda

225' E of

6th St

21

SL

86

139.8

9.7

11.9

6

14.2

134.2

9

15.8

6h

15.8

SL

15.1

133.3

250' E of

6th St

21

SL

9.5

138.9

6h

10.4

9

10.2

6

8.5

139.9

9

7.6

6h

7.0

SL

6.5

141.9

14841

Newport

20

275' E of

6th St

21

SL

40

144.4

6h

47

9

52

6

5.9

142.5

9

POSTED

64

6h

65

SL

68

141.6

300' E of

6th St

21

SL

5.1

143.3

6h

4.8

9

4.4

6

4.1

144.3

9

5.6

6h

5.3

SL

2.6

145.8

TP

1250

138.28

2.63

145.78

158.28

325' E of 6th st

SL 102 148.1

bl 11.0

y 11.4

b 12.0 146.3

y 12.4

bl 12.6

SL 13.3 144.8

350' E of 6th st

SL 10.3 148.0

bl 9.7

y 9.5

b 9.4 148.9

y 8.8

bl 8.3

SL 7.9 150.4

158.28

375' E of 6th st

SL 5.0 153.3

bl 5.2

y 6.6

b 7.0 151.0

y 8.0

bl 8.8

SL 9.0 149.3

400' E of 6th st

SL 8.4 149.9

bl 7.4

y 6.3

b 5.2 153.1

y 5.8

bl 5.0

SL 2.6 155.7

Thompson

21

15828

	425'	E of	6th st	
SL	425'		1.00	157.3
bl			2.8	
y			3.9	
b			4.9	153.4
y			6.4	
bl			7.7	10.06
SL			9.9	148.4
	450'	E of	6th st	
SL			7.0	151.3
bl			5.3	
y			3.0	
b			1.6	156.7
TP	7.12	166.39	1.02	157.26
y			8.0	
bl			7.5	
SL			6.8	159.6

16639

newport

22

	475'	E of	6th st	
SL			3.0	163.4
bl			4.7	
y			5.8	
b			7.5	158.9
y			9.1	
bl			11.1	
SL			12.8	153.6
	500'	E of	6th st	
SL			9.6	156.8
bl			7.7	
y			6.8	
b			5.2	160.8
y			3.0	

16639

525	E of	602	st	
72		9.4	157.0	
66		6.3		
4		5.2		
6		3.0	163.4	
550	E of	602 ⁸	st	
72		9.1	157.3	
66		4.9		
575	E of	602	st	
72		9.9	156.5	
66		5.0		
600	E =	W of	Granger	
72		10.0	156.4	
TD	12.06	174.60	3.63	167.33
500	E of	602	st	
52		7.8	167.0	
66		10.3		

17482

Newport

23

525	E of	602	st	
52		4.9	169.9	
66		5.4		
4		7.0		
550	E of	602	st	
52		1.0	173.8	
66		3.6		
"		5.0		
6		8.4	166.4	
"		11.7		
575	E of	602	st	
52		0.4	174.4	
66		2.8		
"		4.7		
6		7.4	167.4	
"		11.0		

1748~

600.0 = w 2 of 7th st

SL

140

17342

SWH

7

bb

570

4

8.3

6

11.1

16 3.7

4

14.3

bb

12

16.4

POSTED

24

blought
right
stamp
Oct 24

cross section of Santa Monica
Ocean to 7th st

	584	15.61	9.77	SEA 2nd station
	W 2nd	2nd st	60"	
S2		6.0	9.6	✓
bl		5.8	9.8	
4		5.6	10.0	
6	POSTED	5.9	9.7	
7		6.0	9.6	
bl		6.2	9.4	
2.2		6.4	9.2	✓
	50	W of 2nd st		
2.2		6.5	9.1	
bl		6.7	8.9	
7		6.1	9.5	
6		6.2	9.4	
7		6.2	9.4	
bl		6.0	9.6	
S2		6.0	9.6	

15.61 Sta Monica
86" W of 2nd st

S2		6.4	9.2	
bl		6.4	9.2	
4		6.6	9.0	
6		6.5	9.1	
4	POSTED	6.5	9.1	
bl		6.7	8.9	
2.2		6.4	9.2	
	100	W of 2nd st		
2.2		1.0	14.6	
bl		2.6	13.0	
7		4.0	11.6	
6		6.0	9.6	
7		6.2	9.4	
bl		6.7	8.9	
S2		6.7	9.2	

15.61

140' W of 2nd

S2

6.0

9.6

h2

150' W of 2nd

S2

3.0

12.6

y

Sand Bank about 20' High

b

y

5.84 15.61

9.77

Bm

b

E Line of 2nd st

S2

S2

5.7

9.9

b

5.6

10.0

S2

y

5.7

9.9

b

b

5.9

9.7

y

y

6.1

9.5

b

b

6.1

9.5

y

h2

6.3

9.3

b

h2

15.61

Sta Monica

26

50' E of 2nd st

6.2

9.4

6.1

9.5

5.9

9.7

5.9

9.7

5.8

9.8

5.8

9.8

5.5

10.1

100' E of 2nd st

4.9

10.7

5.0

10.6

5.4

10.2

5.3

10.3

5.5

10.1

5.6

10.0

5.7

9.9

1561

150' E of 2nd st

h2	52	10.4
h	50	10.6
y	48	7.8
b	48	10.8
y	47	10.9
h	46	11.0
S2	48	10.8

200' E of 2nd st

S2	49	11.2
h	45	11.1
y	45	11.1
b	45	11.1
y	46	11.0
h	47	10.9
h2	45	10.1

1561

Sta Monica

250' E of 2nd st

h2	42	11.2
h	39	11.7
y	35	12.1
b	38	11.8
y	37	11.9
h	36	12.0
S2	32	12.4

300' E of 2nd st

S2	28	12.8
h	27	12.9
y	29	12.7
b	32	12.4
y	31	12.5
h	34	12.2
h2	35	12.1

27

1561

350'

E of

2nd st

n2

2.6 13.0

bl

2.5 13.1

y

2.3 13.3

b

2.0 13.3

y

2.2 13.4

bl

1.8 13.8

S2

2.0 13.6

TP

6.78

2051

1.88

13.73

400'

E of

2nd st

S2

6.4 14.1

bl

6.3 14.2

y

6.6 13.9

b

6.6 13.9

y

6.6 13.9

bl

6.8 13.7

n2

7.0 13.5

2051

Sta. Menden

28

450'

E of

2nd st

n2

6.5 14.0

bl

6.5 14.0

y

6.2 14.3

b

6.2 14.3

y

6.0 14.5

bl

5.8 14.7

S2

5.8 14.7

500'

E of

2nd st

S2

5.5 15.0

bl

5.5 15.0

y

5.5 15.0

b

6.0 14.5

y

5.9 14.8

bl

6.0 14.5

n2

5.9 14.6

2051

530' E of 2nd st

22	57	14.8
bl	54	15.1
9	53	15.2
6	54	15.1
9	51	15.4
bl	49	15.6
82	49	15.6

600' E = NW 1/4 of 3000' (60')

52	45	16.0
bl	45	16.0
9	46	15.9
6	46	15.9
9	47	15.8
bl	49	15.6
nd	46	15.9

2051

Sta Monica

29

E line of 3d st

22	410	16.4
bl	40	16.5
9	42	16.3
6	41	16.4
9	39	16.6
bl	40	16.5
52	42	16.3

50' E of 3d st

52	35	17.0
bl	34	17.1
9	34	17.1
6	37	16.8
9	37	16.8
bl	37	16.8
22	37	16.8

N.B. H
3d
Sta Monica

20.57

	100'	E of	3 d st	
h2			3.3	17.2
h1			3.3	17.2
y			3.2	17.3
b			3.2	17.3
y			3.0	17.5
h1			2.9	17.6
S2			2.8	17.7

TP 7.40 25.09 2.82 17.69

	150'	E of	2nd st	
S2			7.2	17.9
h1			7.0	18.1
y			7.1	18.0
b			7.3	17.8
y			7.1	18.0
h1			7.1	18.0
h2			7.1	18.0

25.09

St. Monica

30

	200'	E of	3 d st	
h2			6.6	18.5
h1			6.5	18.6
y			6.7	18.4
b			6.6	18.5
y			6.4	18.7
h1			6.7	18.4
S2			6.6	18.5

	250'	E of	3 d st	
S2			6.0	19.1
h1			5.9	19.2
y			5.9	19.2
b			5.9	19.2
y			5.9	19.2
h1			6.0	19.1
h2			6.0	19.1

2509

300' E of 3d st

22	53	19.6
bl	54	20.7
"	52	19.9
b	53	19.8
y	57	20.0
bl	53	19.8
SL	52	19.9

350' E of 3d st

SL	47	20.4
bl	45	20.6
y	48	20.3
b	48	20.3
y	45	20.6
bl	49	20.2
22	48	20.3

2509

Sea level

400' E of 3d st

31

22	44	20.7
bl	42	20.9
y	42	.9
b	42	20.9
y	41	21.0
bl	42	20.9
SL	41	21.0

450' E of 3d st

SL	34	21.7
bl	35	21.6
y	35	21.6
b	35	21.6
y	34	21.7
bl	35	21.6
22	34	21.7

2509

500' E of 3d st

22 26 22.5

25 22.6

25 22.6

28 22.3

27 22.4

26 22.5

27 22.4

550' E of 3d st

16 23.5

18 23.3

18 23.3

18 23.3

17 23.4

16 23.5

22 23.7

TP 11,00 34.53 176 23.33

34.53

Sta Monica

32

600' E of 4th st

34.61 10.98 24.53 24.45

10.0 24.6

10.1 24.6

10.3 24.3

10.2 24.4

10.2 24.4

10.1 24.5

E line of 4th st

8.9 25.7

8.9 25.7

9.0 25.6

9.0 25.6

8.8 25.8

8.7 25.9

8.9 25.7

34.61

50' E of 400 ft

nl	7.7	26.9
bl	7.5	27.1
y	7.5	27.1
b	7.6	27.0
y	7.6	27.0
bl	7.6	27.0
S2	7.6	27.0

100' E of 400 ft

S2	6.3	28.3
bl	6.2	28.4
y	6.2	28.4
b	6.4	28.2
y	6.2	28.4
bl	6.0	28.6
nl	6.2	28.4

34.61

Station

33

150' E of 400 ft

nl	5.1	29.5
bl	5.0	29.6
y	5.0	29.6
b	5.2	29.4
y	5.0	29.6
bl	5.1	29.5
S2	5.0	29.6

200' E of 400 ft

S2	5.7	30.9
bl	5.6	31.0
y	5.6	31.0
b	5.6	31.0
y	5.6	31.0
bl	5.7	30.9
nl	5.8	30.8

34.61

250' E of 401 st

H2 22' 32.4

bl 23 32.3

y 23 32.3

b 23 32.3

y 23 32.3

bl 22 32.4

SL 25 32.1

TP 1200 45.11 122 33.3

300' E of 401 st

SL 45.4 112 34.2

bl 115 33.9

y 117 33.7

b 116 33.8

y 115 33.9

bl 113 34.1

H2 113 34.1

H2 113

45.11

Sta. Monson

34

350' E of 401 st

H2 92 36.2

bl 92 36.2

y 97 35.7

b 96 35.8

y 95 35.9

bl 94 36.0

SL 94 36.0

400' E of 401 st

SL 71 38.3

bl 72 38.2

y 72 38.2

b 72 38.2

y 72 38.2

bl 70 38.4

H2 69 38.5

45.41

	450'	E of	401	at
nd			5.1	40.3
bl			5.0	40.4
y			5.2	40.2
b			5.2	40.2
y			5.1	40.3
bl			5.1	40.3
sd			5.0	40.4

	500'	E of	401	at
sd			2.8	42.6
bl			2.8	42.6
y			3.1	42.3
b			2.8	42.6
y			3.0	42.4
bl			2.9	42.5
nd			2.9	42.5

TP 12.50 55.08 2.83 42.5

55.08
55.1

Sta. number

35

	550'	E of	401	at
nd			10.6	44.6
bl			10.5	44.6
y			10.3	44.8
b			10.3	44.8
y			10.2	44.9
bl			10.2	44.9
sd			10.1	45.0

	600'	E of	401	at
sd			8.0	47.1
bl			7.8	47.3
y			8.0	47.1
b			8.3	46.8
y			8.4	46.7
bl			8.3	46.8
nd			8.4	46.8

Elevs
5-12

(64')

46.87
Sta. number

5503

Chers

SL of

(5-22)

at

SL

6.2 48.8

SL

6.3 48.7

y

6.2 48.8

b

6.0 49.0

y

5.8 49.2

SL

5.5 49.5

SL

5.6 49.4

30'

E of

5-22

at

SL

3.1 51.9

SL

3.2 51.8

y

3.2 51.7

b

3.5 51.5

y

3.5 51.5

SL

3.6 51.4

SL

4.0 51.0

TP

12.60

6475

290 52.13

6475

Station

36

100'

E of

5-22

at

SL

10.3 54.4

SL

10.8 54.7

y

10.0 54.7

b

10.0 54.7

y

10.0 54.7

SL

10.2 54.5

SL

10.0 54.7

150'

E of

5-22

at

SL

7.4 57.3

SL

7.2 57.5

y

6.8 57.9

b

7.2 57.5

y

7.2 57.5

SL

7.1 57.6

SL

7.2 57.5

64.73

	200'	E of	Stn	St
h2			5.4	59.3'
bl			5.1	59.6
y			4.8	59.9
b			4.8	59.9
y			4.2	60.5
bl			4.3	60.4
sl			4.3	60.4'

250' E of

	250'	E of	Stn	St
sl			1.0	63.7'
bl			1.1	63.6
y			1.4	63.3
b			1.9	62.8
y			2.1	62.6
bl			2.5	62.2
h2			2.8	61.9'

TR

7207

75.75

1.05 63.68

75.75

St Monica

37

	300'	E of	Stn	St
h2			10.6	65.2'
bl			10.6	65.1
y			10.5	65.2
b			10.0	65.8
y			9.5	66.2
bl			9.1	66.6
sl			8.9	66.9'

350' E of

	350'	E of	Stn	St
sl			5.6	70.2'
bl			6.2	69.5
y			6.6	69.1
b			7.0	68.8
y			7.2	68.5
bl			7.3	68.4
h2			7.3	68.5'

75.75

400'

E of

S-M

h2

44 71.4'

hl

44 71.3

y

43 71.4

b

42 71.6

y

38 71.9

hl

26 71.9

SL

27 73.1

TP

1217

87.78

0.19

75.61

450'

E of

S-M

M

SL

87.8

102 77.5

hl

111 76.8

y

114 76.4

b

116 76.2

y

117 76.1

hl

120 75.8

h2

120 75.8

87.78

Sta. names

38

500'

E of

S-M

M

h2

87.8 54 82.4'

hl

64 79.4

y

64 79.4

b

62 81.6

y

58 82.0

hl

55 82.3

SL

52 82.6

TP

1192

99.14

0.57

87.21

550'

E of

S-M

M

SL

99.1

102 88.9

hl

107 88.4

y

110 88.1

b

113 87.8

y

118 87.3

hl

118 87.3

h2

124 86.7

99.14

600'

C of = road of

Kroonide

(60')

nl

99.1

71.3

92.01

Mar 14
Sant Juan

Sl

92

101.6

bl

71

92.0

bl

90

101.8

y

66

92.5

y

97

101.1

b

64

92.7

b

108

100.0

y

57

93.4

y

11.3

99.5

bl

50

94.1

bl

12.0

98.8

Sl

45

94.6

Sl

12.5

98.3

T P

1227

110.80

-063

98.18

25'

C of

614

Sl

nl

96

101.2

bl

90

101.8

y

85

102.3

b

75

103.3

y

72

103.6

bl

68

104.0

Sl

66

104.2

110.80

Sta. Kroonide

39

11050

50'	E of	6 m	st
SL		3.8	107.0
hh		4.6	106.2
y		5.5	105.3
b		6.0	104.8
y		6.6	104.2
hh		6.6	104.2
SL		6.8	104.0

75'

E of

6 m

st

SL		4.3	106.5 ^v
hh		3.5	107.3
y		2.7	108.1
b		1.8	109.0
y		1.0	109.8
hh		1.0	109.8
SL		0.4	110.4 ^v

TR

12.45

12.55

0.70

110.10

12255

Sta Monica

40

100'	E of	6 m	st
SL		6.3	116.3 ^v
hh		7.4	114.9
y		8.0	114.2
b		8.3	114.3
y		9.2	113.1
hh		10.4	111.9
SL		11.2	111.4 ^v

125'

E of

6 m

st

SL		7.4	115.2 ^v
hh		6.4	115.9
y		5.7	116.6
b		5.4	117.2
y		4.2	118.4
hh		3.6	119.0
SL		3.2	119.4 ^v

12255

	150'	E of	624	at
SL			0.0	122.6
bl			1.2	121.4
"			2.4	120.2
b			2.3	119.3
"			4.0	118.6
bl			5.0	117.6
SL			5.4	117.2
TP	1232	13325	162	120.93
	175'	E of	624	at
SL			12.4	119.9
bl			12.1	121.1
"			10.3	122.9
b			9.2	124.1
"			8.8	124.4
bl			8.2	125.0
SL			7.1	126.2

13325

Sta. number

41

	200'	E of	624	at
SL			5.4	127.9
bl			6.4	126.8
"			6.8	126.4
b			8.3	125.0
"			8.9	124.3
bl			10.8	122.4
SL			11.4	121.9
	225'	E of	624	at
SL			9.5	123.8
bl			8.3	124.7
"			6.8	126.4
b			5.6	127.7
"			4.1	129.1
bl			2.8	130.4
SL			1.8	131.5

13325

	250'	E-6	602	22
h2			8.4	124.9 [✓]
bl			6.7	126.5
4			5.4	127.8
6			4.3	129.0
7			2.7	130.5
TP	1008	141.87	14.6	131.79
bl			9.4	132.5
SL			8.0	133.9 [✓]
6	275'	E-6	602	22
SL			5.9	136.0 [✓]
bl			7.2	134.7
7			9.4	132.5
6			11.5	130.4
7			12.4	129.5
bl			14.0	127.9
h2			15.7	126.8

POSTED

141.87

Sta. Mon. in

42

	200'	E-6	401	11
h2			14.9	127.0 [✓]
bl			13.4	128.5
9			11.6	130.3
6			10.2	131.7
7			7.5	134.4
bl			5.1	136.8
SL			4.0	137.9 [✓]
	225'	E-6	602	22
SL			1.7	140.2 [✓]
bl			3.3	137.6
6			6.7	135.7
6			9.2	132.7
7			11.1	130.8
bl			12.5	129.4
h2			14.2	127.6 [✓]

POSTED

14187

14187

	350'	E of	602	11
22			135	128.4 [✓]
66			116	130.3
4			100	131.9
6			81	133.8
7			60	135.9
66			40	137.9
52			0.0	141.9 [✓]
	375'	E of	602	11
52			0.1	141.8
66			35	138.4
4			54	136.5
6			73	134.6
4			93	132.6
66			108	131.1
22			123	129.6

14187

43

	400'	E of	602	11
22			123	129.6
66			112	130.7
4			100	131.9
6			81	133.7
7			64	135.5
66			43	137.7
70	7.78	145.05	460	137.22
52			45	140.6
	425'	E of	602	11
52			50	140.1
66			73	137.6
4			94	135.7
6			112	133.9
4			129	133.2
66			140	131.1
22			152	129.9

145.05

450' E of 6th

h2	15.0	130.1
h1	14.1	131.0
7	13.3	131.8
6	12.2	132.9
5	10.3	134.8
h1	8.0	136.8
SL	6.6	138.5

475' E of 6th

SL	7.2	137.9
h1	8.9	136.2
7	10.7	134.4
6	12.0	133.1
5	12.5	132.6
h1	13.0	132.1
h2	13.7	131.7

145.05

St. Francis

44

500' E of 6th

h2	11.4	133.7
h1	11.0	134.1
7	11.2	133.9
6	10.2	134.9
5	9.7	135.4
h1	9.0	136.1
SL	7.7	137.4

525' E of 6th

SL	7.0	138.1
h1	8.0	137.1
7	8.5	136.6
6	9.0	136.1
5	9.3	135.8
h1	9.7	135.4
h2	9.5	135.6

145.05

550' E of 6th St

h2	6.3	138.8
hh	6.0	138.1
7	6.4	138.7
6	6.8	138.3
4	6.5	138.6
hh	5.8	139.3
S2	5.4	139.7

575' E of 6th St

S2	3.3	141.8
hh	3.5	141.6
7	2.3	141.8
6	2.3	141.8
4	2.0	142.1
hh	3.0	142.1
h2	3.4	141.7

POSTED

145.05

600' E-W 2 of

h2	0.2	144.9
hh	0.0	145.1
7	+0.4	145.5
6	+0.4	145.45
4	0.0	145.1
hh	0.5	144.6
S2	1.06	145.0

Swing
7th

45

POS

STED

5th St
7th
Santa Monica

cross-section of Saratoga St (80')

2nd St to 7th St

7.92 15.26

734

near 2nd St

W line of 2nd St

nl

7.2

8.1

bl

8.9

6.4

y

POSTED

8.4

6.9

b

8.5

6.8

y

8.4

6.9

bl

8.5

6.8

SL

7.5

8.1

10' W of 2nd

SL

2.0

13.3

nl

6.6

8.7

50' W of 2nd

Sand Bunkers 15 ft high

15.26

Saratoga

46

E line of section st

SL

8.6

6.7

bl

8.5

6.8

y

7.7

7.6

b

7.9

7.4

y

8.0

7.3

bl

8.4

6.9

nl

8.0

7.3

50' E of 2nd St

nl

7.9

7.4

bl

8.0

7.3

y

7.7

7.6

b

7.8

7.5

y

6.8

8.5

bl

7.9

7.4

SL

7.8

7.5

15.26

100' E of 2nd st

SL		7.2	8.1
bl		6.7	8.6
y		6.4	8.9
b		7.5	7.8
y		7.6	7.7
bl		7.7	7.6
SL		7.6	7.7

150' E of 2nd st

SL		7.3	8.0
bl		7.5	7.8
y		7.6	7.7
b		7.5	7.8
y		6.0	9.3
bl		6.5	9.1
SL		7.2	8.1

15.26

Saratoga

200' E of 2nd st

SL		6.7	8.6
bl		7.0	8.3
y		4.9	10.4
b		6.4	8.9
y		6.7	8.6
bl		6.4	8.9
SL		6.6	8.7

250' E of 2nd st

SL		5.4	9.9
bl		5.5	9.8
y		5.5	9.8
b		5.4	9.9
y		4.1	11.2
bl		5.5	9.8
SL		5.4	9.9

47

15.26

300' E of 2nd st

SL	43	11.0
bl	51	10.2
y	39	11.9
b	42	11.1
y	41	11.2
bl	39	11.4
nl	41	11.2

350' E of 2nd st

nl	33	12.0
bl	35	11.8
y	36	11.7
b	32	12.0
y	28	12.5
bl	43	11.0
SL	27	12.6

15.26

Paoloysa

48

400' E of 2nd st

SL	26	12.7
bl	36	11.7
y	22	13.1
b	28	12.5
y	33	12.0
bl	28	12.5
nl	29	12.9

POSTED

450' E of 2nd st

nl	22	13.1
bl	19	13.4
y	28	12.5
b	23	13.0
y	15	13.8
bl	28	12.5
SL	19	13.4

TP 685 20.45 1.68 13.58

2043

500' E of 2nd st		
S2	66	13.8
bl	7.8	12.6
y	6.2	14.2
b	6.6	13.8
y	6.8	13.6
bl	6.6	13.8
n2	6.6	13.8

530' E of 2nd st		
n2	60	14.4
bl	6.3	14.1
y	6.8	13.6
b	5.4	15.0
y	6.0	14.4
bl	6.0	14.4
S2	5.8	14.6

2045

Saratoga

49

600' E = W. line of 3d st (60')

S2	55	14.9
bl	5.8	14.6
y	5.5	14.9
b	6.0	14.4
y	5.5	14.9
bl	5.0	15.4
n2	5.4	15.0

E line of 3d st

n2	5.0	15.4
bl	4.7	15.7
y	4.8	15.6
b	5.0	15.4
y	4.8	15.6
bl	5.0	15.4
S2	5.2	15.2

2043

	50'	E of	3 d	st
SL			4.1	16.3
bl			4.3	16.1
y			4.1	16.3
b			4.7	15.7
y			4.3	16.1
bl			4.5	15.9
SL			4.5	15.9

100' E of

	3 d	st
SL	4.2	16.2
bl	4.0	16.4
y	3.6	16.8
b	3.8	16.6
y	4.0	16.4
bl	3.8	16.6
SL	3.7	16.7

2043

Sunstays

50

	150'	E of	3 d	st
SL			3.3	17.1
bl			2.8	17.6
y			2.9	17.5
b			3.1	17.3
y			3.2	17.2
bl			3.0	17.4
SL			3.2	17.2

200' E of

	3 d	st
SL	2.6	17.8
bl	2.6	17.8
y	2.4	18.0
b	2.6	17.8
y	2.5	17.9
bl	2.5	17.9
SL	2.6	17.8

TP 672 24.60 2.55 17.88

Oct. 24

2460

250' E of 3d st

SL	6.1	18.5
bl	5.9	18.7
y	6.1	18.5
b	5.7	18.7
y	5.7	18.9
bl	6.0	18.6
SL	6.0	18.6

300' E of 3d st

SL	5.3	19.3
bl	5.3	19.3
y	5.6	19.0
b	5.4	19.2
y	5.3	19.3
bl	5.3	19.1
SL	5.4	19.2

2460

Saratoga

51

350' E of 3d st

SL	4	19.8
bl	4.9	19.7
y	4.9	19.7
b	5.0	19.6
y	4.8	19.8
bl	5.0	19.6
SL	4.9	19.7

POSTED

400' E of 3d st

SL	4.5	20.1
bl	4.2	20.4
y	4.2	20.4
b	4.2	20.4
y	4.0	20.6
bl	4.0	20.6
SL	4.9	20.7

24.60

430'

E of

3 d

st

S2

34

21.2

bl

34

21.2

y

36

21.0

b

36

21.0

y

36

21.0

bl

36

21.0

S2

36

21.0

500'

E of

3 d

st

S2

30

21.6

bl

28

21.8

y

26

22.0

b

25

22.1

y

27

21.9

bl

25

22.1

S2

26

22.0

TIP

963

3120

250

22.07

3170

550'

E of

3 d

st

S2

86

23.1

bl

87

23.0

y

88

22.9

b

88

22.9

y

88

22.9

bl

88

22.9

S2

88

22.9

600'

E of

2 d

st

S2

757

3177

750

24.20

bl

78

24.0

y

75

24.2

b

80

23.8

y

76

24.1

bl

77

24.0

S2

77

24.1

Saratoga

52

600'

E of

2 d

st

757

3177

750

24.20

78

24.0

75

24.2

80

23.8

76

24.1

77

24.0

77

24.1

31.77

E line of 4th st

SL	61	25.7
ll	64	25.4
y	64	25.4
b	65	25.3
y	65	25.3
ll	61	25.7
nl	65	25.3

50' E of 4th st

nl	55	26.3
ll	56	26.1
y	54	26.4
b	54	26.4
y	54	26.4
ll	53	26.5
SL	51	26.7

31.78

Saratoga

53

100' E of 4th st

SL	41	27.7
ll	41	27.6
y	41	27.6
b	43	27.5
y	43	27.5
ll	42	27.6
nl	41	27.7

150' E of 4th st

nl	28	29.0
ll	27	29.1
y	27	29.1
ll	27	29.1
y	28	29.3
ll	25	29.3
SL	23	29.5

TP 1290 4224 243 2934

4224

200' E of 4th st

Sl		11.1	31.1
bl		11.2	31.0
y		11.1	31.1
b		11.5	30.7
y		11.2	31.0
bl		11.0	31.2
nz		11.3	30.9

250' E of 21st st

nz		9.9	32.3
bl		9.8	32.4
y		9.3	32.9
b		9.1	33.1
y		9.0	33.2
bl		9.0	33.2
Sl		8.9	33.3

4224

Sanatoga

54

300' E of 4th st

Sl		6.9	35.3
bl		7.2	35.0
y		7.1	35.0
b		7.4	34.8
y		7.5	34.7
bl		7.8	34.7
nz		8.0	34.2

350' E of 4th st

nz		6.2	36.0
bl		5.9	36.3
y		5.9	36.3
b		5.8	36.4
y		5.7	36.5
bl		5.5	36.7
Sl		5.2	37.0

4224

400' E of 4th st

SL 34 38.8

bl 37 38.5

y 40 38.2

b 41 38.1

y 45 37.7

bl 46 37.6

SL 47 37.5

450' E of 4th st

SL 48 39.4

bl 49 39.5

y 50 39.8

b 51 39.9

y 52 40.1

bl 53 40.3

SL 54 40.5

TVD 7.0 4756 1.70 4054

4756

Saratoga

55

500' E of 4th st

SL 57 41.9

bl 58 41.8

y 60 41.6

b 64 41.2

y 65 47.1

bl 68 40.8

SL 71 40.5

550' E of 4th st

SL 82 42.0

bl 84 42.2

y 85 42.5

b 87 42.6

y 89 42.7

bl 92 42.9

SL 94 43.2

POSTED

$\frac{475-6}{1475-6}$
 600 E = N 2 of 1st 11 (60')

			Ebers
S2		28	44.8
bl		30	44.6
y		30	44.6
b		34	44.2
y		35	44.1
bl		37	43.9
S2	1200	40	43.56

Ebers
 Edine of

			Ebers
N2		102	45.5
bl		97	46.0
y		95	46.2
b		88	46.9
y		86	47.1
bl		84	47.3
S2		87	47.3

5574
 50' E of 5th 11

			Ebers
S2		60	49.7
bl		64	49.3
y		65	49.2
b		72	48.5
y		74	48.3
bl		77	48.0
N2		80	47.4

100 E of 5th 11

			Ebers
N2		62	49.5
bl		55	50.2
y		51	50.6
b		50	50.1
y		48	50.9
bl		45	51.2
S2		41	51.6

Saratoga
 56

55.74

150'	Ref	5-21	21
52		18	53.9
61		22	53.5
7		20	53.7
6		24	53.3
4		30	52.7
61		35	52.2
72		42	51.5

710 1207 65.24 280 52.94

200'	Ref	5-22	22
72		111	54.2
61		104	54.9
7		98	55.5
6		92	56.1
7		89	56.4
61		88	56.5
52		87	56.6

65.24

Saratoga

57

250'	Ref	5-22	22
52		53	60.0
61		61	59.2
7		64	58.9
6		68	58.5
4		72	58.1
61		77	57.9
72		82	57.0

200' Ref 5-22 22

72	Ref	5-22	22
72		88	59.5
61		48	60.5
7		43	61.0
6		38	61.5
7		33	62.0
61		24	62.9
52		20	63.3

6539

	350	E of	5-21	25
SL			+08	66.1
bl			+03	65.6
"			010	65.2
"			090	64.4
"			1,3	64.0
bl			1,7	63.6
SL			2,4	62.9
TP	1288	77.72	0,93	64.88

	400	E of	5-21	25
SL			94	68.4
bl			94	68.4
"			94	68.4
"			93	68.5
"			90	68.8
bl			86	69.2
SL			82	69.6

7777

Sarabga

58

	450	E of	5-21	25
SL			45	73.3
bl			40	74.8
"			42	74.6
"			38	74.0
"			35	74.3
bl			35	74.3
SL			35	74.3
TP	1267	89.43	1,00	76.76

	500	E of	5-21	25
SL			102	78.7
bl			101	79.3
"			105	78.9
"			108	78.6
"			107	78.7
bl			110	78.4
SL			115	77.9

8943

Ebers

550' E of

SL

3.4 86.0

bl

3.6 85.8

y

3.4 86.0

b

3.8 85.6

y

3.8 85.6

bl

4.5 84.9

SL

5.8 83.6

TP

1264

10090

117

88.4

600' E

W side of

1277

88.16

SL

124

88.5

bl

112

89.7

y

9.2

91.7

b

83

92.6

y

77

93.0

bl

7.5

93.4

SL

10090

Saralegia

59

E side of

Froude

SL

3.4 97.7

bl

2.8 98.1

y

POSTED

3.3 97.6

b

4.3 96.6

y

4.9 96.0

bl

5.0 95.9

SL

3.9 97.0

TP

1135

11138

0.67

100.23

50'

E of

622

11

SL

9.0

102.6

bl

9.0

102.6

y

9.2

102.4

b

9.2

102.4

y

8.7

102.9

bl

9.1

102.5

SL

9.4

102.2

11158

	100'	E of	602	25
SL			7.0	104.6 [✓]
bl			6.6	105.0
Y			6.6	105.0
b			6.4	105.2
4			6.3	105.3
bl			6.4	105.2
nd			6.3	105.3 [✓]

	150'	E of	602	25
SL			4.4	107.2 [✓]
bl			4.3	107.3
Y			4.3	107.3
b			4.3	107.3
Y			4.5	107.1
bl			4.5	107.1
SL			4.6	107.0 [✓]

11158

Saratoga

60

	200'	E of	602	25
SL			2.3	109.3 [✓]
bl			2.6	109.0
Y			2.2	109.0
b			2.2	109.0
Y			2.6	109.0
bl			2.4	109.2 [✓]
nd			2.5	109.1 [✓]

	250'	E of	602	25
SL			1.5	110.1 [✓]
bl			1.0	110.0
Y			0.8	110.8
b			0.7	110.9
Y			0.6	111.0
bl			0.4	111.2
SL			0.2	111.4 [✓]

TP 1245 1298 0.15 111.45

12388

6

	300'	E 4	bit	st
SL			99	114.0
bl			99	114.0
4			101	113.8
4			110	112.9
4			112	112.7
bl			116	112.2
SL			121	111.8

	350'	E 6	bit	st
SL			86	115.3
bl			81	115.8
4			77	116.2
6			72	116.7
4			66	117.3
bl			64	117.5
SL			62	117.6

12388

Saratoga

61

	400'	E 4	Froude	bit	st
SL			20	121.9	✓
bl			22	121.7	
4			25	121.4	
6			26	121.3	
4			31	120.8	
bl			36	120.3	
SL			41	119.8	✓

	450'	E 4	Froude	bit	st
SL	1272	135.39	101	123.87	
bl			113	124.1	✓
4			114	124.2	
6			108	124.8	
4			107	124.9	
bl			106	125.0	
4			104	125.2	
SL			100	125.6	✓

135.89

Froude

500' E of tide st.

SL		54	130.0
bl		64	129.2
"		66	129.0
b		70	128.6
"		74	128.2
bl		77	127.7
SL		82	127.4
	550' E		
SL		46	131.0
bl		44	131.2
"		38	131.8
b		22	132.4
"		23	133.3
bl		15	134.1
SL		10	134.6

POSTED

TP	803	141.88	164	133.95
			314	138.89

92

350 142.30

138.80 131.7

600' E =	w d st.		
SL		350	138.8
bl		360	138.7
"		360	138.7
bl		380	138.5
"		430	137.80
bl		520	137.1
SL		55	136.8

POSTED

Clough
Taylor
Bain
no 12

cross section of Cape May St (80')

Clear to Quizot
7th st

289 1731

1442

Bm 9m
3d
Cape May

W line of 3d st

SL 29 14.4

bl 30 14.3

POSTED 31 14.1

6 31 14.2

4 30 14.3

bl 30 14.3

72 34 13.9

50 W of 3d st

72 36 13.7

bl 41 13.2

4 40 13.3

6 38 13.5

4 36 13.7

bl 38 13.5

SL 35 13.8

1731

Cape May

63

100' W of 3d st

SL 42 13.1

bl 42 13.1

4 43 13.0

4 43 13.0

POSTED 40 13.3

bl 42 13.1

72 41 12.8

150' W of 3d st

72 52 12.1

bl 50 12.3

4 48 12.5

6 51 12.2

4 50 12.3

bl 47 12.6

SL 47 12.6

1731

200' W of 3 d st

SL	5.7	11.6	✓
bl	6.0	11.3	
y	5.4	11.9	
b	5.9	11.4	
y	5.7	11.6	
bl	5.9	11.4	
SL	5.9	11.4	

250' W of 3 d st

SL	6.8	10.5	✓
bl	6.8	10.5	
y	6.7	10.8	
b	6.6	10.7	
y	6.8	10.5	
bl	6.8	10.5	
SL	6.9	10.4	

1731

Lake Mary

64

200' W of 3 d st

SL	7.8	9.5	✓
bl	7.6	9.7	
y	7.5	9.8	
b	7.7	9.6	
y	7.7	9.6	
bl	7.6	9.7	
SL	7.5	9.8	

250' W of 3 d st

SL	8.5	8.8	✓
bl	8.5	8.8	
y	8.4	8.9	
b	8.6	8.7	
y	8.5	8.8	
bl	8.5	8.8	
SL	8.4	8.9	

TP	5.18	13.44	9.05	8.26
----	------	-------	------	------

1344

400' w of 3d st

SL	5.2	8.2	✓
bl	5.2	8.2	
y	5.2	8.2	
b	5.6	7.8	
y	5.4	8.0	
bl	5.5	7.9	
SL	5.1	8.3	

450' w of 3d st

SL	5.9	7.5	✓
bl	5.8	7.6	
y	5.9	7.5	
b	6.0	7.4	
y	5.9	7.5	
bl	5.8	7.6	
SL	5.6	7.8	

1344

Cabo May

C5

500' w of 3d st

SL	6.0	7.4	✓
bl	6.3	7.1	
y	6.4	7.0	
b	6.7	6.7	
y	6.5	6.9	
bl	6.6	6.8	
SL	6.8	6.6	

525' w of 3d st

SL	7.1	6.3	
bl	6.8	6.6	
y	6.5	6.9	
b	6.5	6.9	
y	6.4	7.0	
bl	6.8	7.2	
SL	5.4	8.0	

1344

550' W of 3d st

N2

71 6.3

Sand Bank 15' High
Here

POSTED

Lake Mary

66

E line of 3d st (60')

768 2210

1442

Bm SW 1/4
Lake Mary

S2

70 15.1

bl

68 15.3

y

70 15.1

b

POSTED

69 15.2

y

71 15.0

bl

70 15.1

N2

72 14.9

50' E of 3d st

N2

65 15.8

bl

66 15.5

y

64 15.7

b

65 15.6

y

64 15.7

bl

60 16.1

S2

62 15.9

2210

100' E of 3d st

SL	55	16.6
bl	56	16.5
"	54	16.7
b	57	16.4
"	57	16.4
bl	55	16.6
R2	58	16.3

150' E of 3d st

R2	51	17.0
bl	52	16.9
"	52	16.9
b	51	17.0
"	50	17.1
bl	50	17.1
SL	50	17.1

2210

Cade May

67

200' E of 3d st

SL	45	17.6
bl	45	17.6
"	47	17.4
b	47	17.4
"	45	17.6
bl	48	17.3
R2	48	17.3

250' E of 3d st

R2	42	17.9
bl	42	17.9
"	43	17.8
b	38	18.3
"	40	18.1
bl	40	18.1
SL	39	18.2

2210

400 E of 3 d st

SL 3.3 18.8

bl 3.7 18.7

y 3.7 18.7

b 3.5 18.6

y 3.7 18.7

bl 3.3 18.8

22 3.4 18.7

350 E of 3 d st

22 3.0 19.1

bl 2.9 19.2

y 2.8 19.3

b 3.0 19.1

y 2.6 19.5

bl 2.7 19.4

SL 2.9 19.2

2210

Cape May

400 E of 3 d st

68

SL 1.8 20.3

bl 1.8 20.3

y 1.9 20.2

b 1.5 20.6

y 1.8 20.3

bl 1.7 20.4

22 1.7 20.4

TP 836 2891 1.53 20.55

450 E of 3 d st

22 7.2 21.7

bl 7.5 21.4

y 7.7 21.2

b 7.7 21.2

y 7.7 21.2

bl 7.7 21.2

SL 7.7 21.5

POSTED

2891

500' E of 3d st

SL	6.6	22.3
bl	6.4	22.5
y	6.2	22.7
b	6.4	22.5
y	6.2	22.7
bl	6.3	22.6
SL	6.2	22.7

550' E of 3d st

SL	5.2	23.7
bl	5.0	23.9
y	5.4	23.5
b	5.3	23.6
y	5.4	23.5
bl	5.3	23.4
SL	5.3	23.4

2891

Cape Henry

69

600' E = W of 4th st (60')

SL	4.8	24.1
bl	4.8	24.1
y	4.5	24.4
b	4.6	24.3
y	4.6	24.3
bl	4.4	24.5
SL	4.2	24.6

E line of 4th st

SL	3.7	25.2
bl	3.7	25.2
y	3.8	25.1
b	3.9	25.0
y	3.5	25.4
bl	3.9	25.0
SL	3.8	25.1

2891

50'

E of

yrt

21

SL

3.1

25.8

bl

3.1

25.8

y

3.1

25.8

b

3.2

25.6

y

3.0

25.9

bl

3.1

25.8

22

2.7

26.2

100

E of

yrt

21

22

2.2

26.7

bl

1.8

27.1

y

2.4

26.5

b

2.7

26.5

y

2.3

26.6

bl

2.2

26.7

SL

2.3

26.6

T.P

890

35.63

218

26.73

35.63

600' Mary

150'

E of

yrt

21

70

SL

8.4

27.2

bl

8.4

27.2

y

8.3

27.3

b

8.3

27.3

y

8.4

27.2

bl

8.5

27.1

22

8.5

27.1

200'

E of

yrt

21

22

7.7

27.9

bl

7.2

28.4

y

7.3

28.3

b

7.6

28.0

y

7.4

28.2

bl

7.4

28.2

SL

7.2

28.4

3563

250' E of 4th st

SL	6.5	29.1
bl	6.4	29.2
y	6.3	29.3
b	6.7	28.9
y	6.8	28.8
bl	6.8	28.8
SL	6.8	28.8

300' E of 4th st

SL	5.8	29.8
bl	5.6	30.0
y	5.6	30.0
b	5.3	30.3
y	5.3	30.3
bl	5.7	30.5
SL	4.5	31.1

3563

bed. map

350' E of 4th st

71

SL	4.0	31.6
bl	3.8	31.8
y	4.2	31.3
b	4.4	31.2
y	4.6	31.0
bl	4.6	31.0
SL	4.8	30.8

400' E of 4th st

SL	3.9	31.7
bl	3.9	32.2
y	3.5	32.1
b	3.5	32.1
y	3.7	32.4
bl	2.8	32.8
SL	2.9	32.7

SP	9.48	41.67	3.44	32.19
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4/67

450' E of 4th st

Sl 86 33.1

bl 85 33.2

y 90 32.7

b 94 32.3

POSTED

y 96 32.1

bl 97 32.0

sl 99 31.8

500' E of 4th st

sl 95 32.2

bl 93 32.4

y 88 32.9

b 88 32.9

y 85 33.2

bl 82 33.5

sl 80 33.7

4/67

Cape May st

72

550' E of 4th st

sl 65 35.2

bl 72 34.5

y 68 34.9

b 73 34.4

y 78 33.9

bl 81 33.6

sl 85 33.2

600' E-W 2nd st (60')

sl 67 35.0

bl 68 34.9

y 66 35.1

b 65 35.2

y 60 35.7

bl 60 35.7

sl 58 36.2

POSTED

4167

E line of 5th st

SL	3.8	37.9
bl	4.2	37.5
y	4.2	37.5
b	4.4	37.3
y	4.5	37.2
bl	4.5	37.2
h2	4.8	36.9

50' E of 5th st

h2	2.8	38.9
bl	2.4	39.3
y	2.4	39.3
b	2.3	39.4
y	2.1	39.6
bl	1.8	39.9
SL	1.8	39.9

TP 11.80 5182 1.65 40.02

5182

Coke May

100' E of 5th st 73

SL	9.6	42.2
bl	9.5	42.3
y	10.5	41.3
b	10.6	41.2
y	10.6	41.2
bl	11.4	40.4
h2	11.0	40.8

150' E of 5th st

h2	8.0	43.8
bl	7.9	43.9
y	7.8	44.0
b	8.0	43.8
y	7.7	44.1
bl	7.7	44.1
SL	7.8	44.0

51.82

W

200' E of 5-11 st

SL	5.3	46.5
bl	5.3	46.5
y	5.2	46.6
b	4.8	47.0
y	4.8	47.0
bl	4.8	47.0
SL	4.8	47.0

250' E of 5-11 st

SL	5.9	50.9
bl	1.2	50.5
y	1.4	50.4
b	1.6	50.2
y	1.8	50.0
bl	1.8	50.0
SL	1.9	49.9

TP 11.82 61.26 238 49.44

61.26

Cape May

300' E of 5-11 st

74

SL	7.1	54.2
bl	6.9	54.4
y	7.2	54.1
b	7.2	54.1
y	7.2	54.1
bl	7.0	54.3
SL	7.0	54.3

350' E of 5-11 st

SL	3.8	57.5
bl	3.3	58.0
y	3.1	58.2
b	3.1	58.2
y	3.0	58.3
bl	2.8	58.5
SL	2.1	59.2

TP 11.75 71.00 209 59.20

71.00

400' E of 5th st

SL 7.5 63.5

bl 7.7 63.3

y 8.4 62.6

b 8.8 62.2

y 9.0 62.0

bl 9.3 61.7

n2 9.3 61.7

450' E of 5th st

n2 6.2 64.8

bl 5.5 65.5

y 5.2 65.8

b 5.0 66.0

y 4.8 66.2

bl 4.0 67.0

SL 3.8 67.2

TP 1x20 8.12 1.98 69.02

81.22

Lake Mary

500' E of 5th st 75

SL 10.6 70.6

bl 10.4 70.8

y 11.1 70.1

b 11.2 70.0

y 11.5 69.7

bl 11.8 69.4

n2 12.3 68.9

550' E of 5th st

n2 7.5 73.7

bl 6.7 74.5

y 6.5 74.7

b 6.7 74.5

y 6.8 74.4

bl 6.6 74.6

SL 6.3 74.9

POSTED

8122

8840

Before May 22

16

600' E = W. line lot 24 (60')

50' E of lot 24

SL 23 78.9

SL 19 86.5

bl 26 78.6

bl 24 85.0

y 25 78.7

y 27 84.7

b 30 78.2

b 21 85.3

y 35 77.7

y 22 86.2

bl 44 76.8

bl 20 86.4

N2 547 75.75

N2 16 86.8

TP 1265 8840 7575

TP 962 8618 184 8696

E of lot 24

75' E of lot 24

N2 65 81.9

N2 11.0 85.2

bl 66 81.8

bl 9.3 86.9

y 75 80.9

y 8.8 87.4

b 70 81.4

b 9.1 87.1

y 60 82.4

y 9.7 86.5

bl 40 84.4

bl 7.7 86.3

SL 18 86.6

SL 9.5 86.7

96.14

	100'	E of	602	10
SL			78	88.4
bl			80	88.2
y			85	87.7
b			91	87.1
y			104	85.8
bl			113	84.9
SL			124	83.8

	125'	E of	607	10
SL			120	84.2
bl			116	84.6
y			111	85.1
b			103	85.9
y			92	87.0
bl			85	87.7
SL			61	90.1

96.18

Cap May

	130'	E of	602	20	77
SL			76		88.6
bl			84		87.8
y			91		87.1
b			100		86.2
y			109		85.8
bl			105		85.7
SL			106		85.6

	175'	E of	602	10
SL			75	88.7
bl			79	88.3
y			82	88.0
b			82	88.0
y			80	88.2
bl			78	88.4
SL			72	89.0

POSTED

96.14

200' E of 600 10

SL 62 90.0

bl 64 89.8

y 63 89.9

b 60 90.2

y 50 91.2

bl 55 92.7

SL 50 93.2

225' E of 600 20

SL 10 94.9

bl 05 95.7

y 05 95.7

b 12 95.0

y 25 93.7

bl 33 92.9

SL 40 92.2

TP 1274 107.98 0.94 95.24

107.98

108.00

600 20

250' E of 600 20

78

SL 117 96.3

bl 103 97.7

y 98 98.2

b 99 98.1

y 106 97.4

bl 109 97.1

SL 120 96.0

275' E of 600 20

SL 109 97.1

bl 102 97.8

y 95 98.5

b 87 99.3

y 83 99.7

bl 80 100.0

SL 73 100.7

107.98

300' E of lot 2A

SL	5.2	102.8
bl	5.7	102.3
7	6.4	101.6
6	7.2	100.8
4	8.1	99.9
bl	8.6	99.4
72	9.4	98.6

350' E of lot 12

72	6.8	101.2
bl	6.4	101.6
7	5.8	102.2
6	5.1	102.9
7	4.2	103.8
bl	3.4	104.6
SL	2.6	105.4

107.98

Baker May 24

400' E of lot 2A 79

SL	0.1	107.9
bl	1.0	107.0
7	1.5	106.5
6	2.2	105.8
4	2.5	105.5
bl	2.8	105.2
72	3.5	104.5

TP 12.07 118.87 1.18 106.80

7 450' E of lot 2A

72	10.3	108.6
bl	9.7	109.2
7	9.1	109.8
6	8.9	110.0
4	8.1	110.8
bl	7.6	111.3
SL	7.0	111.9

TP 12.27 129.26 1.88 116.99

12926

500' E of 602 1st

SL	11.8	117.5
6L	12.3	117.0
4	13.1	116.2
6-	13.9	115.4
4	14.6	114.7
6L	15.2	114.1
2L	15.6	113.7

550' E of 602 2nd

2L	10.5	118.8
6L	10.0	119.3
4	9.5	119.8
6	8.8	120.5
4	8.0	121.3
6L	7.1	122.2
SL	6.7	122.6

12926

602 3rd

600' E = W 1 of 702 1st 60

SL	0.7	128.9
6L	1.4	127.9
4	2.1	127.2
6-	2.8	126.5
4	3.3	126.0
6L	3.7	125.6
2L	4.1	125.2
6L	3.30	125.86

POSTED

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	7.83	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	84.67	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.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	

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