



# KEUFFEL & ESSER CO.

DRAWING MATERIALS

AND  
SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO ST. LOUIS SAN FRANCISCO MONTREAL.

**Tables for Excavations and Embankments.**

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.  
ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.  
FOR SINGLE TRACK EXCAVATION.

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

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

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8/8/16

Grades for Flume

00  
+50  
+75  
1+00  
+25  
+50  
+75  
2+00

8.0

+25 = Coffin Dam

8.0

7.85

7.78

7.7

7.625

7.550

7.475

7.400

7.325

Bub Notar 1  
Dithey Instr 2x10

Correct gns taken on top of Stringer  
End of Flume at present

Elo Coords Intersections

		P15 6557	Q94W
I 10	7143	Q10 6911	9343
I 11	6634	Q11 6606	
I 12	6533	Q12 6552	
I 13	6540	Q15 6556	
I 14	6721	R 5 9985	
I 15	6698	R 6 9839	
I 16	6712	R 7 9176	
I 17	6896	R 8 8257	
H 10	6794	R 9 7173	
H 11	6614	R 10 6613	
H 12	6572	R 11 6598	Q10-R11 ON Diagonal 1045'-Q10 8064
H 15	6683	R 12 6467	
H 16	6754	R 13 6470	
G 10	6735	R 14 6551	
G 11	6615	R 15 6560	
G 12	6520		
G 13	6552		

## Ele Coord intersections

		D16 6598 ✓	M10 7989
G15	6680	C10 8118	M11 6674
G16	6699	C11 7071	M15 6570
F10	7330	C12 6492	N10 8447
F11	6585	C13 6510	N11 6654
F12	6536	C15 6662	N12 6482
F15	6692	C16 6668	N13 6489
F16	6538	B10 7454	N15 6600
E10	9007	B11 6669	N16 7499
E11	7446	B12 6505	N17 39039
E12	6509	B15 6636	O10 8959
E13	6507	B16 6641	O11 7663
E15	6676	A10 6987	O12 6475
E16	6533	A11 6655	O15 6579
D10	8639 <sup>1</sup>	A12 6508	P10 8703
D11	7800 <sup>1</sup>	A13 6496	P11 6955
D12	6509 <sup>1</sup>	A14 6599	P12 6518
D15	6666 <sup>1</sup>	A15 6595	P13 6472

2'W = 84.47

4953 = 95.53

41. = 4.95

72.07

68

68

68

68

68

68

68

68

68

68

68

68

68

Point 68

68

# 2' Topog for Excavation

At I 16

263 25.4

295 23 48

314 27.2 50

257.30 20.6

250-30 20.2

241-30 20.2

240 19

231-30 19

214 21

198 20.8

182-30 22

163 28.7

158-30 23.1

164-30 20.6

199 13.7

227 12.6

200 8.6

67.12

✓

673

671

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

Aug 4 1917

4

Bub - Notes

Dilley - Inst.

Espen - Red

Plotted  
Aug 4 17

H1			
7207	At I16		67.2
68	127-30	10.1	✓
68	115°	20.8	✓
68	113°	25.1	✓
70	129°	15.9	✓
70	140	16.5	✓
70	143-30	11.5	✓
70	256	26.1	✓
70	251	24.3	✓
70	254	21.2	✓
70	237-30	23.7	✓
70	237.30	22.2	✓
70	215	24.1	✓
70	203-30	22.7	✓
70	192	24.0	✓
70	178-30	27.	✓
70	170	30	✓
72	178-30	33	

Ring Cont.

" "

" "

Plattos  
Aug 4 1917



H.I.	At I 16	67.12
72.07		
72	192-30 29	
72	212-30 27.3	
72	223-30 26.0	
72	229° 248	
72	232° 264	
72	236° 240	
72	240° 242	
72	239° 268	
72	248° 243	
72	256 265	

Plotted  
Aug 4 1917

H.I. = <sup>450</sup> 78.79	At H 18	74.29
68	322 284	
58	338 235	
68	γ 21	
68	340 185	
70	315-30 265	

Point

78.79

At H18

7429

70 321 194

70 328-30 14.7

70 346 156

70 16.30 135

70 48 157

70 46 172

Point

70 25-30 25.2

70 19-30 26.6

" 5 26.7

" 5 34.7

" 12-30 36.9

" 23-30 39.2

70 41 29.7

" 39 36.7

" 33-30 42

Point

" 40-30 43

" 48 438

Plotted  
Aug 4/17



+ H.I. - Elev

10.78382.8 37130 B.M.

I 18 5.20 376.88 ✓

I 19 0.24 381.88 ✓

H 18 7.82 374.26 ✓

G 18 7.48 74.60 ✓

G 17 10.95 71.13 ✓

H 17 12.93 69.15 ✓

F 17 3.5 78.58 ✓

T 12.63 394.5 0.20 381.88 ✓

E 17 9.24 385.27 ✓

F 18 6.33 88.18 ✓

E 18 2.31 92.20 ✓

I 20 9.86 84.65 ✓

I 21 6.51 88.00 ✓

T 9.22 103.44 0.29 394.22 ✓

I 22 8.27 95.17 ✓

I 23 1.30 102.14 ✓✓

Copied in # 3

Etc

+ H.I. - ELEV

403.44

2.22 401.22

Check BM

D18 12.66 414.59 1.51 401.93 ✓

C.18 2.42 412.11 ✓

5.68 408.91

BM

Point on Steel

T.P. 4.18 390.15 385.27 ✓

E17

D17 11.02 379.13 ✓

T.P. 6.41 394.86 1.77 388.38

B17 2.78 392.08 ✓

T.P. 0.35 382.52 12.69 382.17

C.17 6.91 378.61 ✓

T.P. 3.76 373.91 12.37 70.15

D15-15'N 4.68 69.23 ✓

C15-18'N 5.19 68.72 ✓

H15-8'N 3.34 70.57 ✓

M16 2.75 77.16 ✓

7.93 65.98 ✓

Check H15

65.95 ✓

E10 Copied  
in #3

H. = 45

78.79

At H 18

7429

11

74 303 51

74 300 485

74 300 465

74 297 44

74 295-30 385

74 295 276

74 286-30 203

74 286 30 156

74 297 142

74 287 8

74 240-30 5

74 209-30 6

74 247-30 1

74 9 38

74 100-30 53

74 187 239

74 148 265

Platted  
Aug 4 1917

H1		
78.79	17+H18	74.29
74	158	288
74	160-30	39.
74	167	47.
74	156	43.3
74	144-30	38.6
74	136	31.3
74	123	24.5
74	114-30	24.5
74	108-30.	22
74	90-30	24
74	69	24.2
74	63-30	21.8
74	60	27
74	60	28.5
74	48	31.1
74	49	34.6
74	52	35.6
74	50-30	37.8

Platted  
8/4/17

H1

78.79

At H18

74.29

70

54-30 37.4

70

53-30 43.7

74

56-30 43.7

H1-<sup>45°</sup>  
75.63

At G17

71.3

68

299 306

68

318 20

68

340 18.1

68

9-30 17.9

68

45° 18.5

68

59° 18.7

68

68° 27.5

68

70° 38.8

70

70 30 38.6

70

68 27.7

70

66 22.3

70

59-30 17.6

Platted

Aug 4 17



H1=

75.63

A+ G 17

71.13

70

~~65-30. 11.5~~

70

64-30. 11.5

70

59 9.0

72

67 19

72

69 28.5

72

72 38.1

74

72-30 34.9

74

69-30 25.4

74

72-30. 18.4

74

77° 17.9

74

81-30 12.3

74

95 11.5

H1. = 4.5

79.1

A+ G 18

74.60

76

181-30 40.3

76

182-30 34.1

76

179-30 31.3

14

Plattal

8/4/17

41.2791

94 918

746

15

76

183-30 27.8

76

180-30 26.1

76

188 23.6

76

194 14.7

76

178 10.9

76

183 6.9

76

176 4.8

76

133-30 4.0

76

159 2.0

76

76 3.5

76

42-30 6.4

76

46-30 7.8

76

29-30 11.4

76

22 14.5

76

13 14.0

76

9-30 15.7

76

11-30 20.4

Plattool  
8/4/17

H1-79.1

A+G15

76	26°	24.7
76	5-30	20.9
76	358-30	19.4
76	00	14.0
76	357	10.
76	345-30	11.8
76	338-30	8.9
74	329	10.8
74	340-30	8.8
74	353	6.0
74	333	4.5
78	350-30	9.7

Ring Cont.  
 " "  
 " "  
 " "  
 " "  
 " "

Platted  
 8/4/17

Ring Co

H1-46  
83.18

A+F17

78.58

76	248-30	13
76	273	11.9
76	268-30	9.3

H1-8318

At F 17

7858

17

76 263- 80

76 286-30 90

76 311 7.3

76 80 7.7

76 41-30 10.2

76 68- 63

76 65-30 29.2

76 67-30 42.5

74 67 42.4

74 63 28.6

74 57 17.7

74 63 11.0

74 39 13.5

74 42 16.2

H1-44.5  
83.03

At F 17

7858

72 51-30 13.7

72 57-30 14.0

Plotted 8/4/17

Aug 4 1917

H1.  
8303

A+F17

7858

8/6/17

18

72

56-30 20.5

✓

72

62 28.8

✓

72

66-30 42.5

✓

70

64 42.7

✓

70

62-30 57.2

✓

70

63-30 30.2

✓

70

57-30 24.2

✓

70

54 17.0

✓

70

42 17.5

✓

78

72 42.7

78

72-30 37.2

78

70 33.4

78

67-30 28.

78

71 18.

78

83 10.8

78

76 10.0

78

65-30 15

141

8303

A+ F17

7858

78	244-30	46	✓
78	260-	75	✓
78	292	68	✓
78	352-30	50	✓
78	359	38	✓
78	33	63	✓
78	45-30	68	✓
78	231-30	127	✓
78	218	15	✓
78	223	162	✓
78	230	16	✓
78	233-30	19	✓
78	218.	20	✓
78	228-30	21.2	✓
78	226.	22	
78	227-30	22.7	

Ring Count

" "

✓ " "

" "

" "

Plotted  
8/6/17

19

8/6/17

H1  
830.3

171 F17

7858

78

235-30 198

✓ Ring Cont.

78

240. 22

✓ " "

78

242-30 212

✓ " "

78

237-30 185

✓ " "

78

220-30 248

✓

78

221-30 28

✓

78

217 276

✓

78

219 305

✓

78

216 30

✓

78

222 36

✓

80

213 31

✓

80

215 29

✓

80

211-30 246

✓

80

205-30 212

✓

80

202-30 186

✓

8

216-30 138

✓

8

219-30 234

✓ Ring Cont.

Plotted  
8/6/17

8303

197 F17

7858

21

80

221 24.1

Ring Cont. ✓

80

219 27.0

" " ✓

80

212-30 24.7

" " ✓

80

220 19.4

" " ✓

80

221 11.7

✓

80

197-30 7.0

✓

80

198 5.6

✓

80

93 8.0

✓

80

102 8.0

✓

80

76 18.2

✓

80

70 28.2

✓

80

73-30 28.2

✓

80

70-30 32.2

✓

80

76 33.

✓

80

75 26.

✓

80

78 35.7

✓

80

75-30 43.0

✓

Ring Cont. ✓

" " ✓

" " ✓

" " ✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

Plotted

8/6/47



8303

A+F17

7858

8/6/17

72

82

72-30 27.3

✓

82

75-30 23.6

✓

82

80 23.6

✓

82

139 7.5

✓

82

120-30 6.1

✓

82

187 8.3

✓

82

215-30 14.0

✓

H1-455  
9273

A+F18

8818

80

258 19.6

✓

80

253 23.4

✓

80

248-30 21.1

✓

80

239 22

✓

80

240-30 24.9

✓

80

238-30 25.7

✓

80

233 28.2

80

228 30.6

80

226 32.6

Platted

8/6/17

412+5

92.73

A+K18

88.8

23

80 224 344 ✓

80 225 355 ✓

80 221 346 ✓

80 219 348 ✓

80 221 373 ✓

80 218 392 ✓

80 215-30 373 ✓

80 214 37.7 ✓

80 214-30 40.6 ✓

80 212-30 41.5 ✓

80 213 46.5 ✓

80 212 48.5 ✓

80 212 45.3 ✓

80 210-30 41.9 ✓

80 212-30 40.4 ✓

80 213-30 39.2 ✓

80 212-30 37.5 ✓

Plotted  
8/6/17

H.I. ✓  
92.73

AAFI8

8818

24

82 ✓ 214-30 366

82 ✓ 213-30 356

82 ✓ 216-30 332

82 ✓ 218 332

82 ✓ 224 316

82 ✓ 228 290

82 ✓ 234-30 235

82 ✓ 240-30 190

82 ✓ 250 175

82 ✓ 251-30 142

82 ✓ 259-30 132

82 ✓ 274-30 144

82 ✓ 279-30 142

82 ✓ 298 101

82 ✓ 277-30 72

82 ✓ 285-30 68

82 ✓ 323- 123

82 ✓ 330 123

Plotted

8/6/17

9273

84F-18

8918

8/6/17

25

82

328-30 154

✓

84

38-30 42

✓

82

42-30 41

✓

82

44 446

✓

82

49 434

✓

82

52 50.

✓

84

53-30 455

✓

84

49 424

✓

84

44-30 384

✓

84

42 402

✓

84

37-30 328

✓

84

35 260

✓

84

27 23

✓

84

9-30 17

✓

84

350 142

✓

84

335 130

✓

84

333-30 110

✓

Plattot  
8/6/17

9273

AT F18

888

8/6/17

26

84

322 11.4

✓

84

505-30 70

✓

84

250-30 55

✓

84

250-30 65

✓

84

288 85

✓

84

284-30 10.5

✓

84

278-30 10.9

✓

84

254 12.0

✓

84

226-30 12.5

✓

84

231 16.0

✓

84

229 19.6

✓

84

238° 23.9

✓

84

227-30 25.7

✓

84

219 26.5

✓

84

220 28.9

✓

84

216-30 31

✓

84

213 31.3

✓

Platted

8/6/17

9273

A+F 18

8818

27

84

211-30 34

✓

84

210 36.1

✓

84

212-30 39.8

✓

84

208-30 41.3

✓

84

210-0 44.5

✓

86

202-30 46.5

✓

86

203-30 42

✓

86

204-30 41

✓

86

204-30 39

✓

86

207-30 39.7

✓

86

205 36.7

✓

- 86

206-30 36.0

✓

86

206 34

✓

Platted  
8/6/17

H1  
9273

RT F18

8818

28

86 210-30 29.4 ✓

86 215 28 ✓

86 220 25 ✓

86 223-30 24.5 ✓

86 223 208 ✓

86 226 198 ✓

86 220 17.7 ✓

86 218-30 15 ✓

86 212-30 11.9 ✓

86 229 9.2 ✓

86 214 8.9 ✓

-86 225 6.9 ✓

86 233 4.3 ✓

86 268-30 20 ✓

86 278-30 4.4 ✓

86 301-30 6.2 ✓

86 333 6.5 ✓

Platted  
8/6/17

45.

9273

19 + F18

8818

86	331	90	✓
86	353	105	✓
86	12-30	126	✓
86	19°	162	✓
86	31	20	✓
86	40-30	27.3	✓
86	42	29.2	✓
86	45-30	34.4	✓
86	53-30	35.7	✓
86	58-30	34.9	✓
86	63-30	38.0	✓
- 86	67-30	38.2	✓
86	68-30	40.6	✓
88	70	41	✓
88	72-30	35.9	✓
88	71-30	34.0	✓
88	67-30	34.1	✓

Plotted  
8/6/17



MI.			
9273	AK F18	8818	15
88	62	30.7	✓
88	46	29.8	✓
88	42-30	23.8	✓
88	31-30	12.8	✓
88	1	7.7	✓
88	14	4.6	✓
88	321-30	1.5	✓
88	206	15	✓
88	171-30	7.4	✓
88	193	9.1	✓
88	200	10.6	✓
88	199-30	13.0	✓
88	205-30	12	✓
88	210-30	13.3	✓
88	203	14.8	✓
88	207	15.7	✓
88	199-30	18.9	✓

Platted  
8/6/17

41  
9273

197 F18

8818

31

88

199-30 227

✓

88

196-30 242

✓

88

200 31

✓

88

203-30 326

✓

88

200 344

✓

88

201 363

✓

88

201 397

✓

88

201-30 427

88

200 457

90

195 426

90

192-30 40

90

193 365

90

192 338

90

192-30 347

90

196-30 348

90

194-30 327

90

192-30 306

Platted  
8/6/77

Ring Cont

"

"

9273

174 F18

8818

32

90 191 284 ✓

90 187 263 ✓

90 188 243 ✓

90 181-30 234 ✓

90 183 198 ✓

90 178 167 ✓

90 164 116 ✓

90 164-30 10.3 ✓

90 142-30 9.0 ✓

90 138- 5.5 ✓

90 116 46 ✓

90 70 9.7 ✓

90 45 16.5 ✓

90 48-30 23.5 ✓

90 61 19.9 ✓

90 63 25.6 ✓

90 72 32.1 ✓

Platted  
8/6/17

9273	AT F18	8818	
90	76.30	34.3	-
90	74	37.1	✓
90	71.30	41.5	✓
H <sup>1</sup> = 4.9 97.1	AT F18	92.2	
92	49.20	20.3	-
92	48.	17	✓
92	60.	12.2	-
92	43	80	-
92	278.	1.0	-
92	245	80.	-
92	231	143	✓
92	226	20	-
92	231	20.5	✓
92	235	24.3	-
92	227-30.	29.5	✓
92	227	31	✓
92	225-30	34.	-

Plattos  
8/6/17

H.I. = 49

34

	HEIF	92?	
97.1			
92	221-30	348	✓
92	220-20	395	✓
92	221-30	437	✓
92	221-30	446	✓
92	218	475	✓
92	218	50	✓
92	217	55.5	✓
94	214-30	50	✓
94	215	45.2	✓ Ring Cont
94	219	44.5	✓ " "
94	218	41.7	✓ " "
94	214-30	41.3	
94	215	37.7	
94	214-30	32.0	
94	215	34.6	Ring Cont
94	219-30	32.3	" " Boulder
94	221	36.3	" "

Platted

8/6/17

H.S. =

97.1

AHEIF

922

35

94

217-30 38.4

Rinig Cont. Boulder.

94

214-30 26.8

94

216 22.8

94

218-30 15.5

94

217 11.8

94

222-30 6.6

94

69 6.6

94

66-30 12

94

51 12.2

94

48-30 16.7

94

51-30 19.4

94

56 18.5

94

58-30 19.5

94

62 17.1

94

59 22.8

94

64 32

96

66 31.5

Platted.

8/6/17

97.1	HT	R18	922
96	62	237	✓
96	67	229	✓
96	62	138	✓
96	119-30	50	✓
96	101-30	68	✓
96	180	76	✓
96	197-30	114	✓
96	205	127	✓
96	202	170	✓
96	206	202	✓
96	204	265	✓
96	206	321	✓
96	206-30	370	✓
96	205	407	✓
96	206	431	✓
96			

Platted  
8/6/17

505  
H.L. = 90.32

E17

8527

37

90 112 26 ✓

92 113-30 27 ✓

90 106-30 30.4 ✓

92 108-30 30.4 ✓

90 }  
92 } 108- 34.8 ✓

88 106-30 36.8 ✓

88 105 32.7 ✓

88 102-30 32.3 ✓

86 106-30 37 ✓

86 100-30 35.2 ✓

86 101 30.3 ✓

84 105 38.6 ✓

84 95 37.2 ✓

84 98 31.2 ✓

84 124 16.8 ✓

84 111 11.1 ✓

84 80-30 11.1 ✓

X @

Plotted  
8/6/17



H.I. ~

9032

Ht. 517

8527

38

82	66-30	16	✓
82	81-30	17	✓
82	89-30	15.1	✓
82	87	17.8	✓
82	117	17.8	✓
82	99	26.8	✓
82	91	37.4	✓
82	93-30	40.7	✓
82	104-30	40.7	✓
80	99-30	44	✓
80	91	43	✓
80	89-30	37.1	✓
80	89-30	32.5	✓
80	105	22.5	✓
80	85	23.3	✓
80	72-30	23.8	✓
80	67-30	23.0	✓

Platted  
8/6/17

HJ  
9032

At 817

8527

80

73. 181

✓

78

49-30 20.4

✓

78

62. 208

78

63-30 23.0

78

66. 238

78

66-30 28.3

78

70. 30

78

83 29.5

78

93-30 29.5

78

88 38.2

78

89 47

78

92-30 47.6

Plotted  
8/6/17

HJ-80.6

At C17

7561

80

158 48

80

109 10-

80

93 10

78

106-30 66

H<sup>1</sup>-806

At C17

7561

78 95-30 9.9

78 85-30 10.3

78 80 17.3

80 80 17.3

78 75.3 20.5

80 78 23

78 69 21.9

80 72-30 24.6

76 73 28.5

76 67-30 22.3

76 69 19.5

76 79 15.7

76 94 6.6

76 176 1.0

76 317-30 30

76 276 7.4

76 277 12.2

Platted

8/6/17

#1

41

806

A+C17

7561

76

272 16.6

76

287 19.1

76

304 20.4

76

299-30 24.9

76

291 30.3

76

293-30 31.6

76

294-30 39.2

74

294 34.3

74

292-30 31.3

74

298-30 29.5

74

305 26.3

74

302-30 25.3

74

308-30 23.0

74

305 21.8

74

310 19.5

74

294-30 16.2

74

298-30 12

Platted

8/6/17

42

H.J.	806	Atc 17	7561
	74	280 88	
	74	307-30 34	
	74	45 30	
	74	97 30	
	74	81 128	
	74	66 15.7	
	74	66-30 17.8	
	74	69 242	
	74	72-30 288	

#1.4.75	73.47	Atc 15 18' North	68.72
	72	239-30 357	
	72	237- 274	
	72	232-30 233	
	72	223-30 24	
	72	218 216	
	72	211 24	

Platted  
8/16/17.

7347	ATC15 IN		6872
72	203-30	216	
72	197-30	224	
72	196-30	258	
72	187-30	27.1	-
72	180	29	✓
72	183	26.2	
72	177-30	239	
72	172	22	✓
72	165-30	264	✓
72	165	208	
72	158-30	23	
72	156-30	237	
72	154	28.4	
72	144	29.8	
72	133-30	337	
72	127-30	383	
72	124	367	

7347

AT C15-18'N

6872

24

72

122-30 39.3

72

119-30 41.7

72

117 45.1

72

105 44.0

72

98 50.5

72

98 56

H.I. -

7347	970	15-18N	68.72
70	115-30	44.8	
70	116	39.1	
70	121	35.3	
70	126	33.6	
70	131	35.4	
70	140	29.5	
70	152	27.8	
70	144	25.3	
70	154	30.1	
70	160	21.1	
70	159	17	
70	165	17.5	
70	171	20.3	
70	180	18.3	
70	180	16.9	
70	189-30	22.2	
70	205-30	18.5	



7347	At C15 18'N.	6872
70	212	209
70	221	21
70	226	22.7
70	236-30	22.7
70	241	29.1
70	242-30	36.8
70	250	38.6
68	252	44.7
68	250	38.2
68	245-30	36.9
68	243-30	29.6
68	240	23.6
68	231-30	21.5
68	229	20.5
68	224	21.2
68	210	16.5
68	190-30	16.9

7347	A/C15	18'N		687 <sup>v</sup>
68	186	140		
68	173-30	16.7		
68	164-30	15.6		
68	159	16.4		
68	146	19.7		
68	143	21.6		
68	135	29.4		
68	121	35		
68	115-30	40		
68	115-30	43.5		
68	112	42.8		
68	113	44.6		
Flume DR	119	22.5	80.5	65.0 <sup>v</sup>
" ΔL	246	21.8	7.9	65.57
	00	34.8	6.5	67.0
	10	9.7	6.7	66.8
	299	35.6	6.7	66.8

E FLUME

" "

✓

✓

✓

7347

AHC 15 18'N

6872

300 236 67 668 ✓

319 175 68 667 ✓

45 130 68 667 ✓

67 265 64 671 ✓

105 232 73 662 ✓

40 40 67 668 ✓

339 352 64 671 ✓

321-30 398 635 671 ✓

263 206 70 675 ✓

184 46 68 668 ✓

Flume

103 355 8.1 6537 ✓

" 94 50 8.1 6507 ✓

H<sub>1</sub> = 485  
71.68

AH 415

6683

273 423 46 671 ✓ ✓

262 434 45 673 ✓ ✓

251 461 44 676 ✓ ✓

7168

A+H15

6683

238-30	31.7	44	67.3	✓
255	28.7	46	67.1	✓
255	78	48	66.9	✓
228	144	47	67.0	✓
210	22.5	47	67.0	✓
180	21	46	67.1	✓
180	11.5	46	67.1	✓
128	21.7	46	67.1	✓
100	28.3	47	67.0	✓
133-30	34.7	47	67.0	✓
118°	29.9	48	66.9	✓
97-30	11.2	48	66.9	✓
61	28.4	<del>45</del>	67.2	✓
42	17.5	45	67.2	✓
00	14.7	45	67.2	✓
311	20.3	44	67.3	✓
298	28.5	44	67.3	✓

71.68

A+H 15		6683	
289-30	U01	44	67.3 ✓
305	466	44	67.3 ✓
310	485	52	66.5 ✓
320-30	398	<del>53</del>	66.4 ✓
66	324-30	47.1	57 66. ✓
	344	29.0	54 66.3 ✓
	342-30	244	46 67.1 ✓
	351	315	48 66.9 ✓
	60	35	4.9 66.8 ✓
	28	30.5	53 66.4 ✓
	32	27.2	45 67.2 ✓
	20	395	49 66.8 ✓
	33	44.1	50 66.7 ✓

H1=4.8

71.72

68

A+F 15		6692	
68	162	38.3	
68	154-30	41.1	
68	142	44.4	

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8/6/17

7172

RHF 15

6692

68

134	452				
146-30	359	49	668	✓	
134	29.1	48	669	✓	
151	208	48	669	✓	
161	30	49	668	✓	
180	27.2	49	668	✓	
180	17	48	669	✓	
222	206	47	670	✓	
211-30	297	48	669	✓	
240	28.1	47	670	✓	
258-30	25.0	49	668	✓	
249-30	14.1	50	667	✓	
180	67	49	668	✓	
122	126	48	669	✓	
104	25.5	50	667	✓	
97-30	388	50	667	✓	
120	44	50	667	✓	

Platted

8/6/17

7172

A4F15

6692

✓

90.

35

50

667

✓

90

15

49

668

✓

270.

15

4.7

670

✓

300.

27

44

673

✓

315

33.2

44

673

✓

319.

359

52

665

✓

325.

45

50

667

✓

340

388.

53

664

✓

00

37

53

664

✓

20

40

54

663

✓

30.

28.5

50

667

✓

30

242.

44

673

✓

35

75

54

663

✓

45

50

55

662

✓

55

46

53

664

✓

55

409

45

672

✓

75

50

46

671

✓

Plotted

8/6/17

7172

AH F 15

6692

70 35 46 671 <

65 28 44 673 ✓

45 20 44 673 ✓

00 12 44 673 ✓

310 20 44 673 ✓

H.L. 4.7  
713

AH C 15

6662

66 351 346

66 18 351

66 24 384

66 43 425

66 60 50

66 70 492

66 59-30 38

66 36 286

66 14-13 249

66 349-30 256

Platted  
8/6/17



H1

713

A+C15

6662

8/7/17 54

66 334-30 326

66 322 37.1

66 327-30 31.8

66 355-30 22.5

66 .8 20

66 28-30 22.5

66 38 25

66 53-30 30.7

66 62-30 32

66 75 45.7

66 77-30 51.5

90 36.3 49 66.4

90 13.8 49 66.4

270 15 46 66.7

216 26.2 48 66.5

182-30 22.5 48 66.5

245 48.8 44 66.9

Platted

8/7/17

H.I

71.3

	At C15			6662
	235-30	88.5	47	666
	727-30	309	48	665
	150	277	50	663
	129	35.7	53	660
	140	43	48	665
66	137	48		
66	138-30	54.2		
66	130-30	48.2		
	115	41.2	50	663
	105-30	56.2	50	663
	90	40.5	46	667
	74	26.3	44	669
	57	14.9	43	67
	10	12.5	43	67
	316°	178	42	67.1
	281-30	24.7	43	67
	290	11.8	43	67.0

55

8/7/17

Platted

8/7/17

713

AC 15

66.2

66

67	40	53	
57	30.8	55	65.8
20	25	55	
30	35	49	66.4
340	33	48	66.5
320	42	50	66.3
320.30	50	50	66.3
327	41.3	49	66.4
345	35.6	51	66.2
20	33.1	51	66.2
19°	33.7	49	66.4
25	39.3	50	66.3
38.30	40	48	66.5
46	43.7	51	66.2
47.30	50	58	65.8
26	40.4	60	65.3
15	36.5	58	65.5

Plotted  
8/7/17

713	9015	662
00	50	6.1 652
345	405	5.8 655
336	466	5.9 654
326	51	6.0 653
350	47	6.0 653
10	45'	5.9 654

H.I. = 5.1  
97.73

AA A16 934 North  
5'W. 9263

96	145	4.2	✓
96	171	4.3	✓
96	173	5.0	✓
96	208	9.8	✓
94	143	3.2	✓
94	164	3.3	✓
94	173-30	5.2	✓
94	208	11.0	✓
94	211	14.7	✓

Plotted.  
8/7/17

141-	934N		
9776	AA16 SW	9263	
92	344	6.3	✓
92	5.0°	5.7	✓
92	42-30	3.5	✓
92	63.30	4.7	✓
92	97.30	6.7	✓
90	97.30	6.7	✓
88	97.30	6.7	✓
86	89	11.7	✓
90	70	5.5	✓
88	70	6.0	✓
86	70	9.3	✓
86	28.30	7.0	✓
90	28.30	5.1	✓
88	28.30	5.7	✓
96	202	13.7	✓
94	208.30	13.8	✓

Plotted 8/7/17

Comer Combed

	At A16	<sup>934N</sup> S'W	9263
92	215-30	16.3	✓
94	215-30	16.7	✓
96	218-30	16.7	✓
92	221	17.3	✓
92	224-30	20	✓
92	235	20.5	✓
92	230-30	26.8	✓
92	237-30	35.9	✓
92	237	37.5	✓
92	236	38	✓
92	237-30	42.3	✓
94	235	40.2	✓
94	235-30	35.7	✓
94	226-30	26.8	✓
94	227	22.7	✓
94	223-30	20.3	✓
94	218	19.5	✓

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H1		934N	
9276	At A16	5W	9263
96	216	19.7	✓
96	220	21.9	✓
96	219	23.7	✓
96	224	24.8	✓
96	226	30.3	✓
96	235.30	40.5	✓
90	210.30	14.3	✓
86	" "	14.3	✓
88	" "	14.3	✓
84	212	14.5	✓
82	215	10.5	✓
80	217	9.0	✓
80	236	14.6	✓
82	236	14.6	✓
82	220	14.3	✓
84	221.30	14.8	✓
86	218	15.5	✓

Wall

"

Hits Concrete

"

Hits Concrete

Hits Concrete

Platted 8/7/17.

9776	AT AK	<sup>934N</sup> S.W	9263
88	218	159	✓
84	233	156	✓
86	235	158	✓
88	228	16.3	✓
88	231	19.3	✓
88	238-30	180	✓
88	239	21.6	✓
88	235	232	✓
90	235-30	17.3	✓
90	234	23.8	✓
86	243	19.8	✓
84	244	19.8	✓
82	245-30	21.0	✓
90	233	25.8	✓
90	236	31.6	✓
90	239-30	36.4	✓
90	239	37.4	✓

Platted  
8/7/17.



9776	934N AT A16 S W	9263
90	237 38.1	✓
90	238-30 41.4	✓
88	238-30 42.4	✓
88	239 37.9	✓
88	241 36.5	✓
88	236-30 29.0	✓
86	239-30 25.6	✓
86	240 31.8	✓
86	242-30 37.8	✓

Wall connect up  
" connect up

~~Platted~~  
8/17/17

H.I. 4.8 804	AT C17	7561
84	180 7.0	
84	119 9.5	
84	92 12.0	
84	81 22	
84	82-30 24.3	
84	75 27.2	

804	At C17	7561
82	73-30 27.2	✓
82	81 244.	✓
82	80.30 22.1	✓
82	86 12	✓
82	120. 8.9	✓
82	180 60.	✓

Plotted

8/7/17

H.I. = 48  
75.37

	At A15 8'N	7057
66	3° 31	
66	20 31.4	
66	32 41.8	
66	49-30 48.5	
66	71.30 46.3	
66	60 32.2	
66	44-30 31	
66	190 27.6	
66	22 18.6	

7537	ATA 15	8'14		7057
66	55	20.9		
66	66	29.3		
66	70-30	38.5		
66	91-30	35.8		
66	91	50	93	66.1
66	91	34.8	93	66.1
66	98	25.	86	66.8
66	110	17.4	86	66.8
66	153	23.6	87	66.7
66	126	26.8	8.6	66.9
	142	9.7	86	66.8
	60	45	91	66.3
	43	35.8	91	66.3
	20	29	93	66.1
	00	28	92	66.2
	30	28	92	66.2
	330	28	93	66.1

7537

7057

340 33 8.9 66.5

00 45 9.9 68.5

17 45 9.9 65.5

35 50 9.6 68.8

H1-425  
69.33

A1 + A12 65.08

240 27 42 65.1

210 27 44 64.9

220 18 42 65.1

155 27 43 65.0

127 27 43 65.0

130 18 43 65.0

90 25 44 64.9

96 37 45 64.8

110 40 44 64.9

125 45 43 65.0

105 52 45 64.8

75 52 40 65.3

69.3

8/8/17

ATA 12

80	40	43	650
60	35	28	665
50	25	28	665
75	20	40	653
60	10	40	653
00	8	37	656
20	20	28	665
45	30	29	664
340	20	29	664
330	30	27	666
320	25	28	665
300	15	37	656
270	15	41	657
220	10	45	648
130	10	46	647

H1.48

69.98

AT P 12

235	45	51	649
250	40	50	650
240	30	50	650
270	40	51	649
210	28	51	649
220	18	50	650
150	15	51	649
130	20	51	649
150	30	52	648
120	30	52	648
90	15	47	659
100	15	52	648
60	30	39	661
50	30	37	663
00	18	36	664
30	30	35	665

66

6518

H.  
5.0  
69.8

At Riv				6467
210	30.	48	650	
220	18	48	65	
180	12	48	65	
260	15	50	648	
272	15	37	661	
300	25	35	663	
330	30	35	663	
320	17	34	664	
00	15	32	666	
00	25	37	666	
30	30.	27	671	
45	18	32	666	
65	28	32	666	
55	45	27	671	
70	40	32	666	
75	50	32	666	
81	49.5	38	66	

698

At Riv				6467
76	50	31	667	
90	50	51	647	
90	40	51	647	
105	50	49	649	
115	55	50	648	
123	45	50	648	
110	40	48	650	
115	28	48	650	
90	12	49	649	
130	18	48	650	
150	30	49	649	

8/8/16

HI = 4.75

7035

8/18/17

At R15

6560

130 20 4.6 658

140-00 28 4.4 660

90 15 4.8 656

90 50 4.8 656

45 20 4.7 657

00 12 4.5 658

00 37 5.6 648

20 40 5.7 647

55 45 5.5 649

66 330 28 4.4 660

66 314 45 4.4 66

66 305 35.5

275 28 4.8 656

270 12 4.7 657

310 18 4.6 658

300 29 4.5 659

240 29 4.6 658

HI = 4.75

7035

At R15

68  
6560

230 20 4.6 658

180 12 4.7 657

210 24.7 4.4 660

4.75

7035

At R15

6557

66

20 20.5

50 17 4.4 659

20 35 4.3 660

20 43 5.7 646

00 41 5.8 645

66

00 33.5

66

33.5 34.5

340 40 5.6 647

66

310 43.1

300 30 4.2 661

66

310 17 4.3

66

276 25

66

284-30 38

7035

At Riv

6560

320 22

66

06 10 43

90 12 4.7 657

66

130 17 4.5 659

66

116 14

66

152 24

66

179 21.5

66

248 37.5

270 12 4.7 657

230 15 4.7 657

H.I. = 485

7085

At N15

6600

15 50 61 64.8

20 40 54 65.5

00 37 55 65.4

66

00 25

300 50 59 650

H.I.

7085

At N15

6600

340 40 5.5 65.4

00 15 4.7 66.2

40 22 4.8 66.1

90 15 4.7 66.2

115 20 4.8 66.1

138-30 16.3 4.6 66.3

E Flame 192 14 5.8 65.1

" " 128 43.5 60

" " 122 50 60

" " 236 31.3 5.7

8/8/17



H.I. = 4.7

75.27	AA 1715 8'14	7057
68	164-30 18.5	
68	200 21.5	
68 <sup>70</sup> / <sub>76</sub>	180 17.1	Corner Concels
78	180 18.1	
68 <sup>70</sup> / <sub>72</sub>	163-30 18.2	
74	166 20	
74	160-30 21.	
68 <sup>70</sup> / <sub>76</sub>	157 24.2	
68 70 72	141 27.7	
74 76-78-80		
68	135 30.5	
68	121-30 27.5	
70	133 32.4	
72	132-30 33.2	
74	131-30 36	
70	119-30 28.9	
72	116-30 30	
74	115 30.6	

70

75.27	AA 158'14	7057
65 70 72		
74	109-30 33.5	
68 <sup>70</sup> / <sub>72</sub>	107-30 36.5	
74	109 37	
68	107 40.4	
70	107 39.5	
72	107 38.8	
74	109-30 40	
72	110. 43	
70	108 41.8	
H.I. = 4.75	AA 1116	7499
79.74		
68	315 10.3	
68	328 9.0	
68	324-30 7.1	8/8/77
70	314-30 8.0	
70	324-30 7.1	
72	386-20 6.3	
72	340. 5.0	

41  
7974

A+N 16

7490

74

268-30 136

74

260 108

74

241 97

74

265-30 80

74

270 47

74

322 25

74

33 2.5

76

253-30 243

76

254 22.8

76

278 19.9

76

279 18.3

76

275 17.8

76

267 19.0

76

267 14.8

76

257 11.6

76

246 10.5

76

224 12

71

7974

A+N 16

7499

76

229 145

76

219 12.0

76

242-30 74

76

230 2.

76

102 4

78

254-30 248

78

248 22.2

78

252 21

78

258-30 19.5

78

260-30 16.3

78

248 15.1

78

241-30 16.5

78

242 14.9

78

229-30 13.2

78

226-30 12.7

78

225 18.0

Ring Co.

8/8/17

8/8/17 72

79.74	At N16		74.99	79.74	At N16		74.99
78	208	12.3		78	118	31.8	
78	210-30	100		76	116-30	28	
78	187	91		74	116	28.5	
78	205	77		72	115	28.5	
78	197	52		76	118	24.5	
78	169	52		76	122	21.3	
78	170	90		76	128	18.4	
78	158	10.5		76	139-30	21	
78	148	14.3		76	143-30	20.5	
78	145-30	13.3	Ring Cont.	76	145	15	
78	137-30	14.0		76	136	16	
78	136	12.8		76	131	16.5	
78	145	24.4		76	123	10.5	
78	139	20.5		76	135	8.5	
78	121	24		76	143	9.5	
78	124-30	29		76	152	7.0	
78	118-30	29.9		76	125	6.8	
				76	111	5.5	

7974

At N16

7499

7974

At N16

8/8/17 72

7499

74

83 52

72

13 40

74

117 93

70

12 45

74

118 105

68

12 47

74

126 14.0

70

77 65

74

120 14.0

70

96 75

74

118 16

70

87 10

74

124 15.3

70

103 12

74

117 24

70

103 14

74

116 26.5

70

107-30 16.5

72

116-30 26.5

70

102 22.3

72

109-30 20.2

70

105 24.5

72

108-30 22.5

70

100-30 25.0

72

111 20.5

70

103 27.5

72

115 19.1

68

98 26.5

72

108 14.2

68

97 23.4

72

115 10.0

68

102 17.5

72

97 6.5

68

95-30 15.0

878717 74  
8892

7974	17+ N16	7400	9232	At M 17		
68	93 10.7		86	293-30	7.2	
68	86-30 10.5		84	303	14.4	
68	72 8.8		82	309-30	19.3	
68	78 7.0		82	315	17.3	
H1 = 3.4 92.32	At M 17	8892	82	328-30	15.5	
78	00 18.5		82	326	17	
80	356-30 19.2		82	322	20	
78	356-30 19.2		82	328	20.2	
62 80 78	341 20.8		82	325	22.2	
78-80	330 22.5		83	348	19	
80	323 23.3		82	348-30	16.5	
78	323 24.3		82	338	15.0	
80	310 20.5		82	340-30	13.3	
78	312 23.3		82	341	10.0	
82-84-86	311-30 26.5		82	332	6.7	
86	310-30 31.5		82	347	6.5	
84	310 31		82	14	4.8	

92.32

A+M17

8892 9432

A+M17

8187.7

88.92 75

82

50 60

70

65 26

82

30-30 10.3

80

64-30 22.2

82

38 12.7

80

55-30 22

82

51 14.0

80

51-30 20

82

65-30 16.5

80

43 13.5

82

70-30 19.0

80

38 13.0

82

67 20.5

80

23 10.7

82

71 22.5

80

356-30 15.0

82

67-30 30.5

80

359 18.2

82

69 32

84

318-30 17.0

82

74-30 34

84

322 15.8

82

78-30 34

84

320 11.5

82

87-30 38.8

84

330 10.7

80

86-30 38.7

84

313-30 80

80

77-30 36.5

84

334-30 5.5

80

71-30 34.7

84

329 4.0

80

64 31

84

18-30 4.3

8/8/17 76

92.32

AT M17

88.92

92.32

A M17

88.92

84	62	7.0
84	39	11.5
84	61	15.5
84	76	18.7
84	75	26.5
84	73-30	29.6
84	79	33.5
84	87-30	37.8
86	87	36.8
86	85	34.5
86	80	30.5
86	82-30	25
86	80-30	20.5
86	73	16.5
86	73	14.0
86	65-30	15.5
86	49	11.8

86	76	8.5
86	49-30	4.5
86	285-30	4.0
86	310-30	4.5
86	295	6.6
88	282	18.9
90	282	18.9
92	277-30	19.6
90-96	292	28.8
90-88	293-30	14.0
88	284	10.8
90	277	10.2
92	282	14.0
92	277	11.4
92	275-30	8.9
92	261	6.0
90	256-30	5.1

9232

At M 17

90

224-30 4.5

88

239 4.5

88

305 1.0

90

128-30 1.4

92

223-30 7.5

92

117 4.6

88

72-30 6.5

88

91 11.1

88

85 12.2

88

94 18.7

88

88 22

88

87-30 27.2

88

86 30

88

89-30 28

88

83-30 32.9

88

88 36

90

93-30 31.5

8892

403.60

H<sub>1</sub> = 4.4

At M 17

1321 403.60

90

141.30 14.7

90

131-30 14.5

90

125 13.4

90

130 11.1

90

117 9.7

90

111 7.0

90

102-30 6.8

90

97-30 6.3

90

47-30 5.1

92

51-20 4.7

94

57-45 4.5

92

94 4.7

94

94 4.7

92

118 6.9

94

114 6.9

879717 77

114 24 Dist 1486 99.2

9039 N 17



H.I.  
403.60

At M 17 114° 4 Dist 148 99.2

92	114-30	7.0	✓
92	118	9.2	✓
94	135-30	9.9	✓
92	135	11.7	✓
92	131-30	12.2	✓
92	126-30	13.2	✓
92	140-30	13.1	✓
94	140-30	12.6	✓
90	149-30	18.5	✓
92	150	18.4	✓
94	150	18.4	✓
90	155-30	22.4	✓
92	155-30	22.4	✓
94	163-30	25.3	✓
92	163	25.7	✓
90	162-30	26.2	✓
96	164	24	✓

H.I. 403.6

At M 17 149° 4 Dist 147.6

8/9/17 78

99.2

96	159	21.3	✓
96	155-30	16.5	✓
96	149-30	15.9	✓
96	147	14.0	✓
96	160-30	13.4	✓
96	156-30	11.5	✓
96	141	8.5	✓
96	131-30	4.8	✓
96	111-30	5.3	✓
96	82	3.0	✓
96	60	3.3	✓
96	33	4.1	✓
96	357-30	4.9	✓
96	350-30	7.3	✓
94	33	6.0	✓
92	17	8.4	✓
90	11-30	10.8	✓

403.6	17+M17	114 <sup>04</sup>	1486 ft	9.92
94		357	7.0	✓
94		357	9.7	✓
94		334	18.3	✓
94		33800	22.2	✓
94		349-30	22.3	✓
94		353-	24.5	✓
94		349	25.5	✓
94		358-30	27.7	✓
94		350-30	33	✓
96		350	32.8	✓
98		350	33.3	✓
00		350	34.7	✓
<sup>04</sup> 06 02		350	35.2	✓
02		346	34.1	✓
00		346-30	33.7	✓
00		337-30	33.5	✓
<sup>04</sup> 06 02		334-30	34.7	✓

Check for End Cam.

END Counts

4036	At Mt 17-114°H N86	99?
00	341 30.4	✓
0✓	336-30 28.5	✓
00	329-30 29.7	✓
0✓	324-30 29.9	✓
00	332-30 22.6	✓
00	329 22.6	✓
00	331-30 18.6	✓
0✓	329-30 18.7	✓
0✓	318-30 11.6	✓
00	321 14.2	✓
00	344 3.3	✓
0✓	319 5.6	✓
0✓	318-30 3.6	✓
00	332-30 4.1	✓
00	305-30 2.6	✓

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ TO 1.

FOR SINGLE TRACE EMBANKMENT.

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

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