

1860

W. H. WOOD

FIELD BOOK

1860

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and
SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

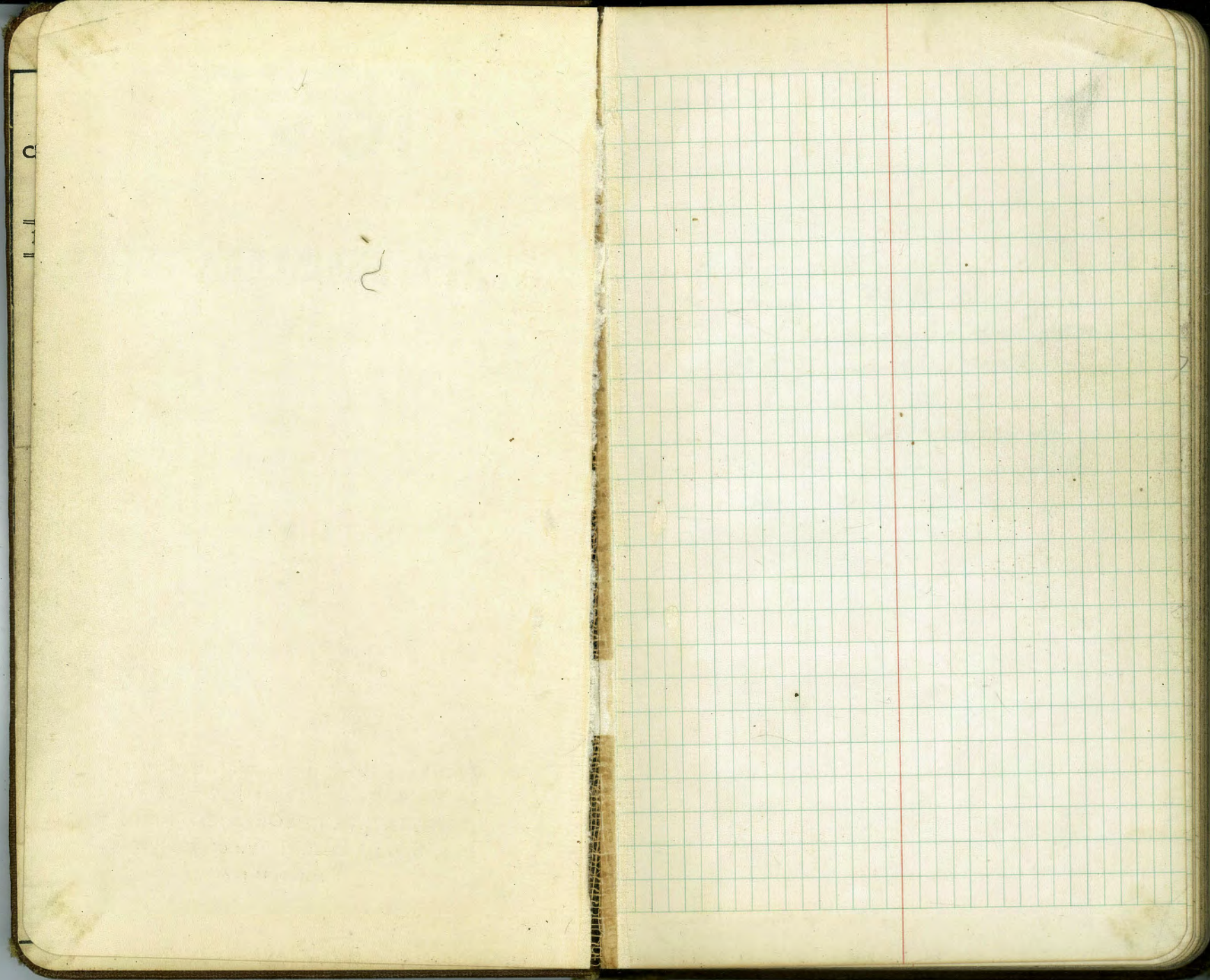
Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be $30.6 + (20 - 16) \div 2$ or 2 ft. added to 30.6 = 32.6. For slopes of 1 on 1 1/2 see inside of back cover.
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1860

CITY ENGINEER'S OFFICE

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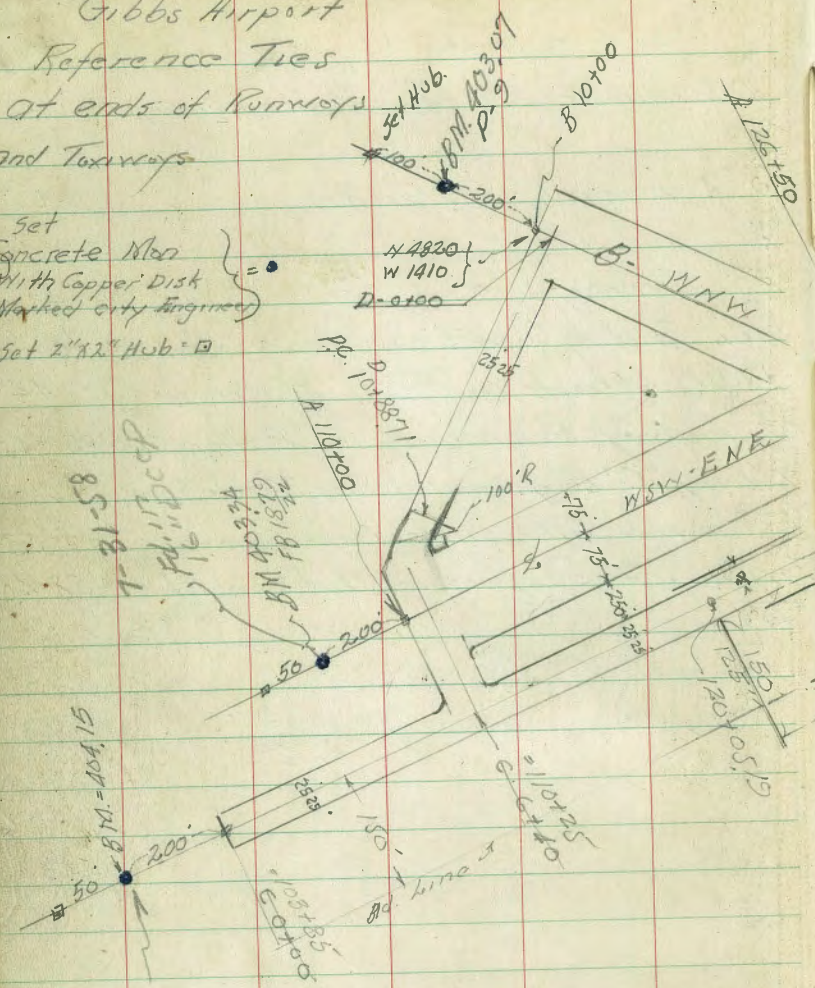
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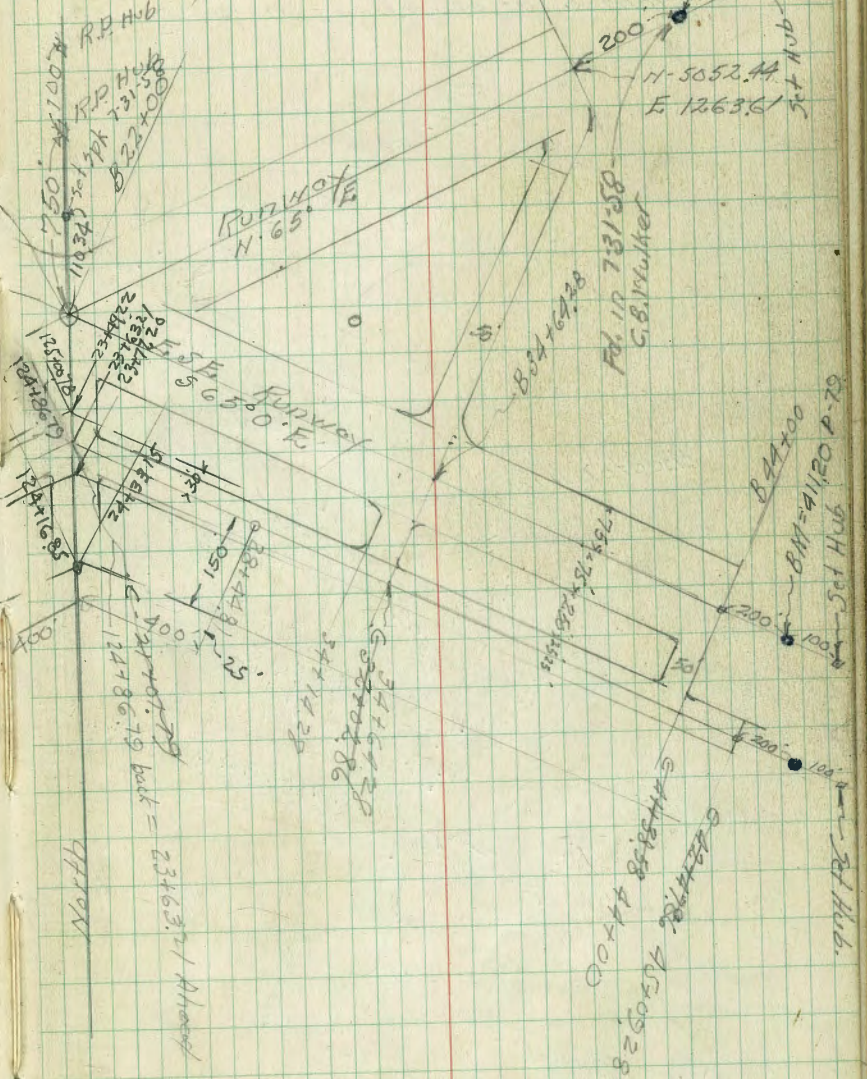
Gibbs Airport - Reference Points Runways	2
"B" Runway Rough Grades	9-21
"A" " " "	22-34
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Elev. Existing Culvert on Highway that is to Drain culverts on "A" & "B" Runways	- 44
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Gibbs Airport
Reference Ties
at ends of Runways
and Taxiways

Set
Concrete Man
With Copper Disk
Marked city Engineer
Set 2"x2" Hub = □

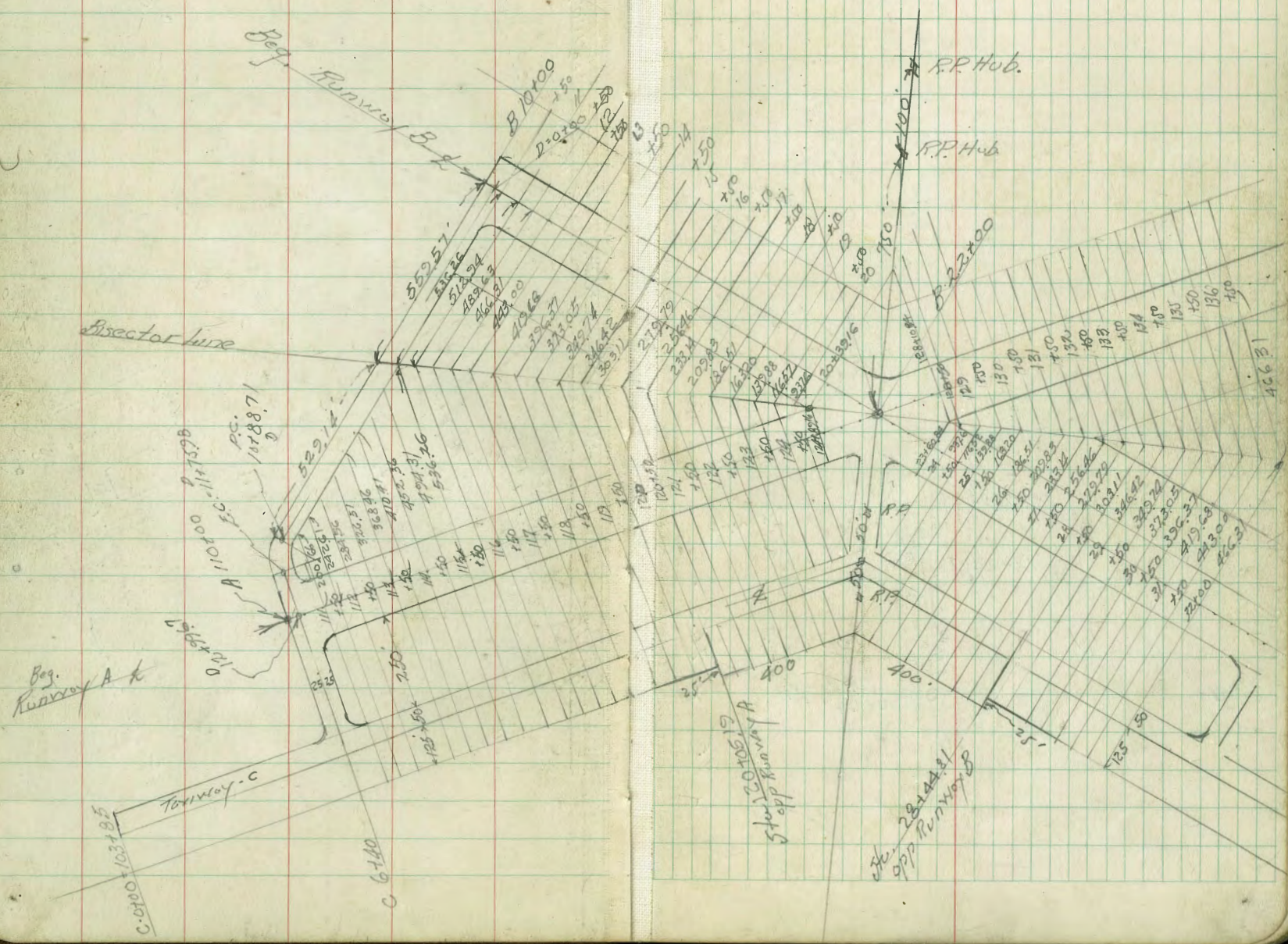


Walker
Johnson 7-9-48
Frank Gregory
Brantley



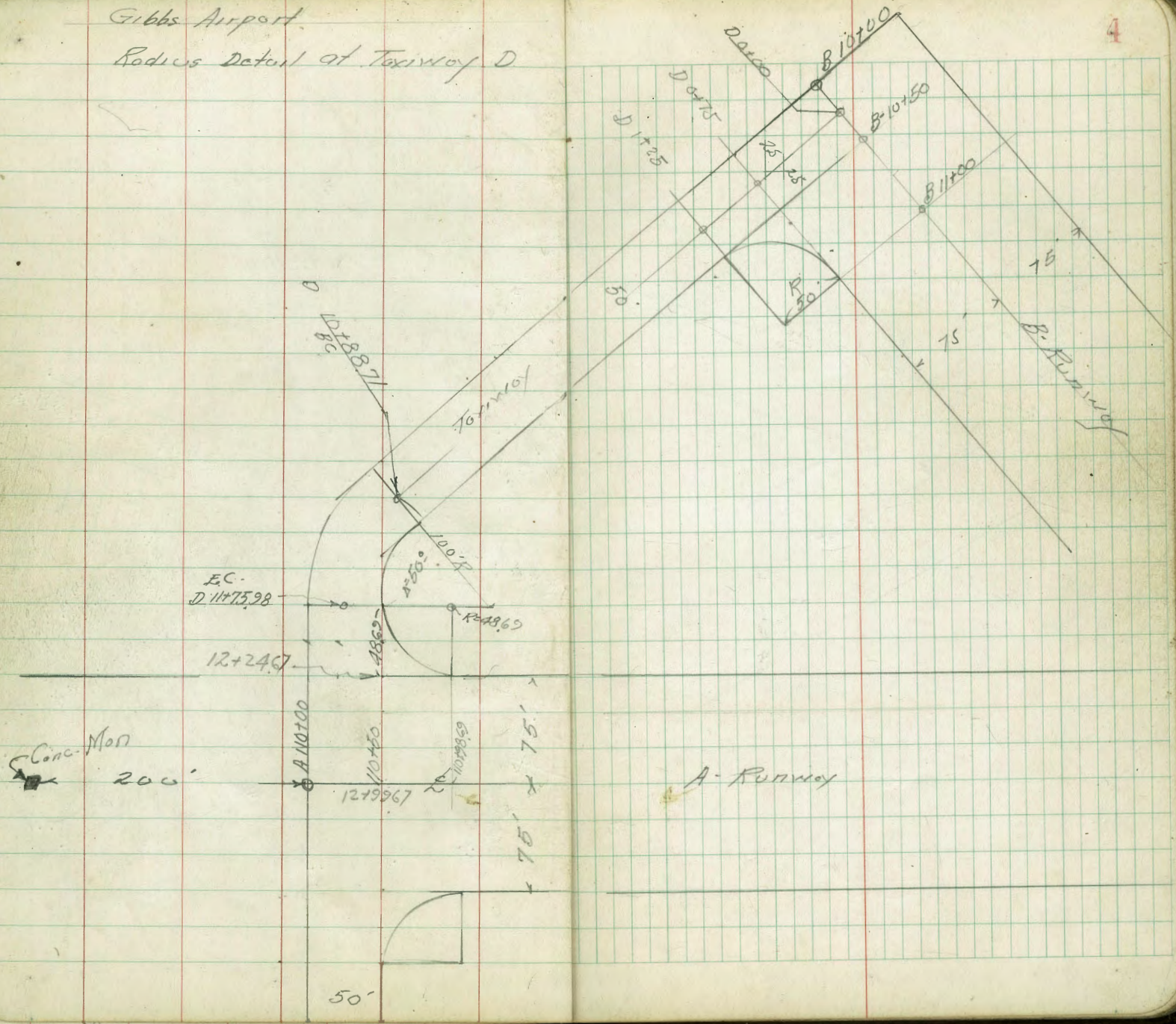
2

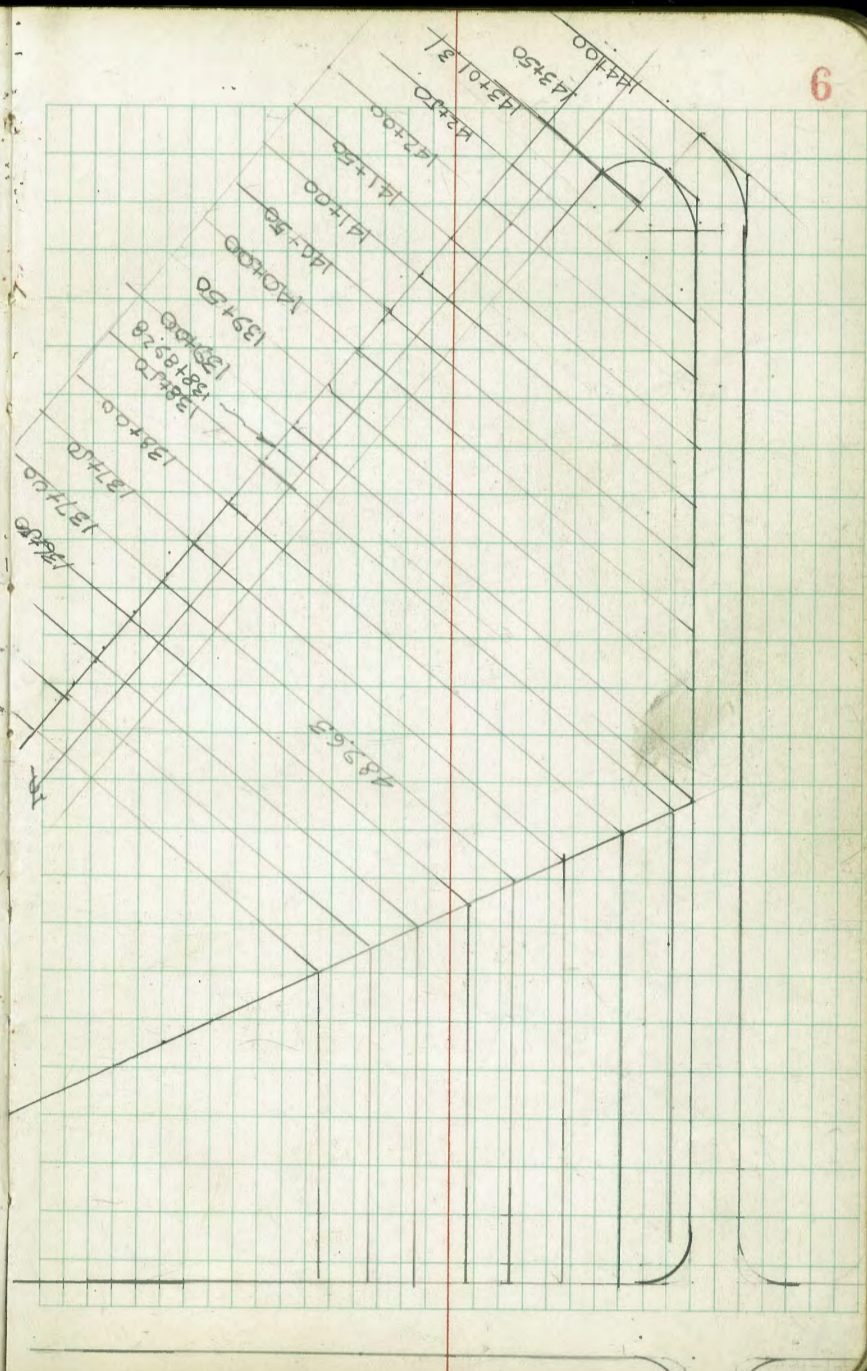
Gibbs Airport -
 Distances to Bisector line
 from E of Runways as per indicated -
 stations



Gibbs Airport

Radius Detail of Taxiway D





A. Rummy 150.

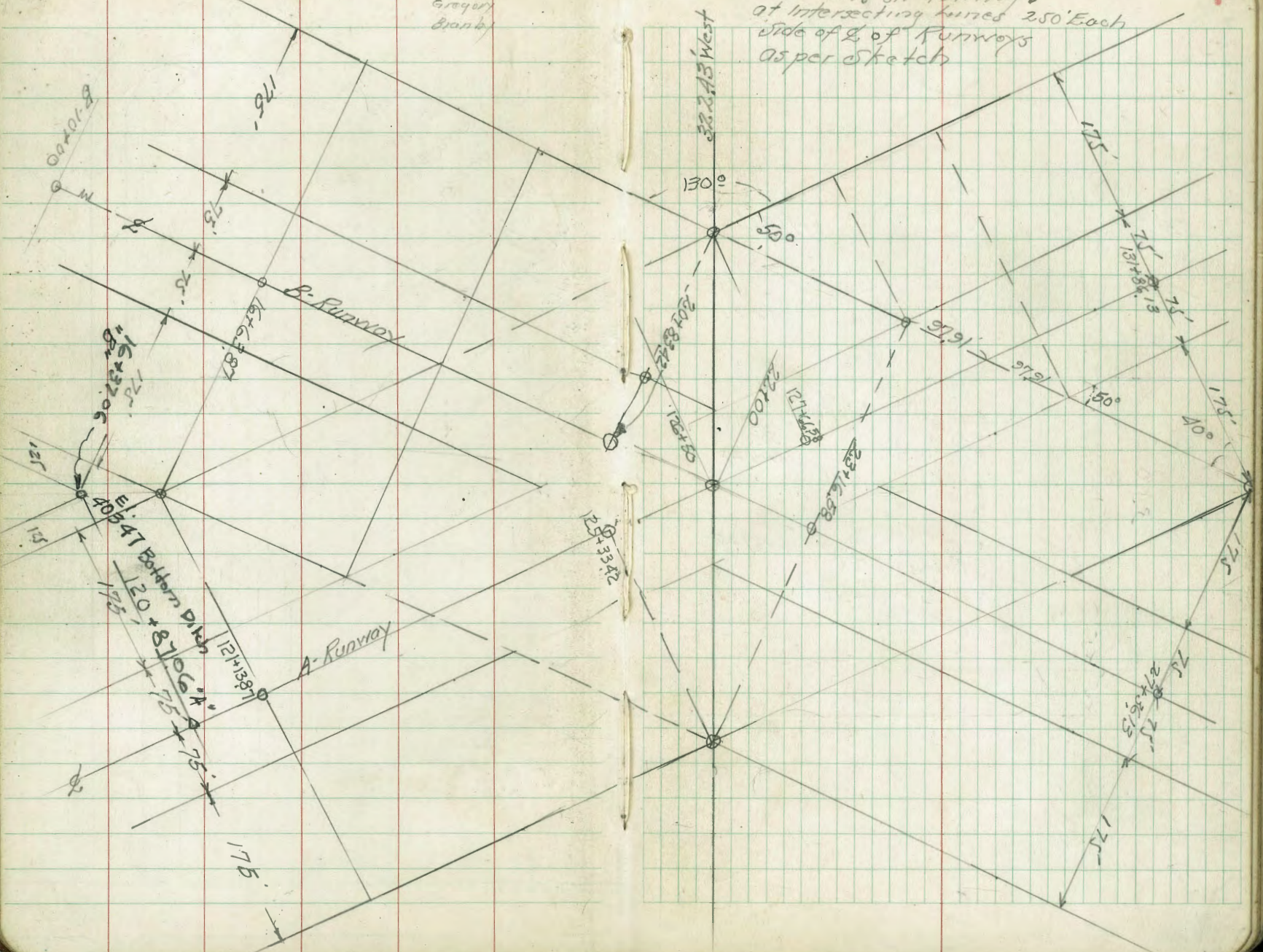
B. Rummy

Mulder
Johnson
Gray
Blank

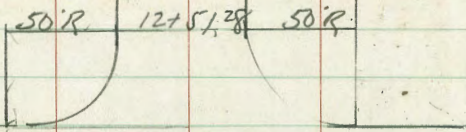
7-2-48

Gibbs Airport
Stations on Runway 3
at intersecting lines 250' Each
side of C. of Runways
as per sketch

7



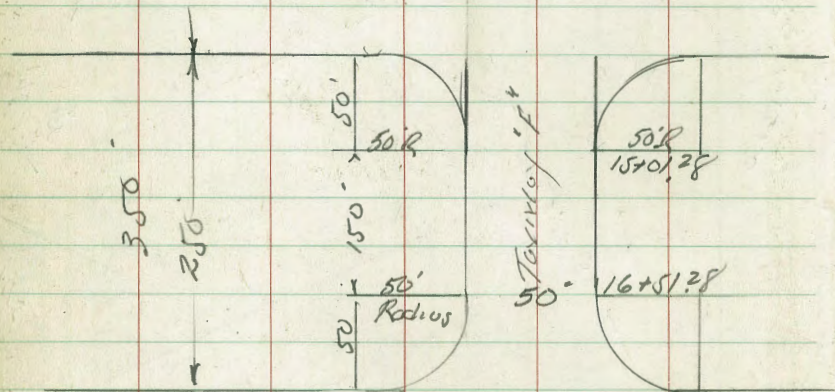
Cont. P. 5



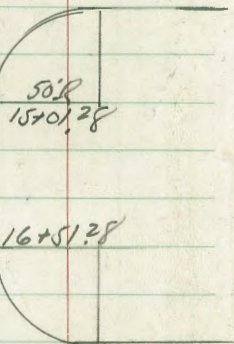
75'



75'

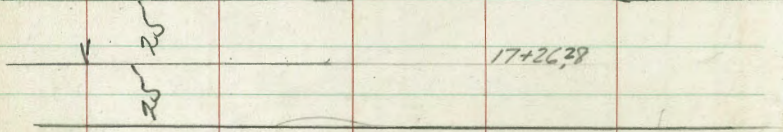


Runway "F"



50' 16751.28

25'



25'

Walker
Johnson
E. Gregory
Branby

"B" RUNWAY - Rough ^{Finish} Grades
Gibbs Airport

150' 200'
12'

10

July 29-48

Note: For check levels
See F81874

C 169	C 098	C 030
403.28	403.78	404.28
404.97	404.76	404.58
3.43	3.69	3.82

11+00

C 187	C 105	C 045
403.03	403.53	404.03
404.90	404.58	404.48
3.50	3.82	3.92

10+50

C 2.05	C 139	C 042
402.78	403.28	403.78
404.83	404.67	404.30
3.57	3.73	4.20

10+00

C 1.95	C 142	C 0.56
402.53	403.03	403.53
404.48	404.45	404.09
3.92	3.95	4.31

9+50

C 1.90	C 1.54	C 0.91
402.28	402.78	403.28
404.18	404.32	404.19
4.32	4.08	4.21

9+00

Elev. Grade
5 lev. stakes
Rod Readings

8+00

Set BM on P.P. Conc. Mark

5 33 403.07

B.M. on Hub

5.53 408.40

402.87 10+00

75 75 100 200 250
Elev. or Finish Grades

F 1.35	F 2.51	F 1.99	1.07 F 4.35	0.31 F 0.44	0.18 F 0.18
405.03	405.78	405.03	404.28	403.78	403.28
403.68	403.27	403.04	402.93	403.24	403.10
4.72	5.13	5.36	5.47	5.06	5.30

F 1.57	F 2.41	F 1.99	0.36 F 0.90	0.59 F 0.51	0.44 F 0.35
404.78	405.53	404.78	403.28	403.58	403.52
403.21	403.06	402.79	402.80	402.99	403.17
5.19	5.34	5.61	5.60	5.41	5.23

F 0.68	F 2.41	F 1.63	1.04 F 1.28	0.31 F 0.13	0.02 F 0.07
404.53	405.28	404.53	403.78	403.58	403.52
403.85	402.87	402.90	402.63	403.27	403.69
4.55	5.53	5.50	5.78	5.13	4.81

F 0.36	F 1.72	F 1.60	F 0.71	0.65 F 0.40	0.74 C 0.99
404.28	405.03	404.28	403.53	403.28	402.78
403.92	403.31	402.68	402.82	402.63	403.52
4.48	5.09	5.22	5.58	5.77	4.88

F 0.27	F 1.32	F 1.36	F 0.82	0.53 C 0.53	0.14 C 1.14
404.03	404.78	404.03	403.28	402.78	402.28
403.76	403.45	402.67	402.46	403.31	403.42
4.64	4.95	5.73	5.94	5.09	4.98

408.40

B- Runway - Rough Grades

Gibbs Airport

ft.

250	200	150
C 1.25	C 0.91	F 0.99
404.78	405.28	405.78
406.03	405.72	404.79
3.80	4.11	5.04

14+00

13+50 T.P. 5.83 409.83 4.40 404.00 & Hub

C 1.43	C 0.95	F 0.27
404.53	405.03	405.53
405.96	405.98	405.26
2.49	2.42	3.14

13+50

C 1.62 C 1.07 F 0.24

404.28	404.78	405.28
405.30	405.85	405.04
2.50	2.55	3.36

13+00

C 1.66 C 1.20 C 0.04

404.03	404.53	405.03
405.69	405.73	405.87
2.71	2.67	3.33

12+50

C 1.74 C 1.72 C 0.30

403.78	404.28	404.78
405.52	406.00	405.08
2.88	2.40	3.32

12+00

C 1.64 C 1.15 C 0.37

403.53	404.03	404.53
405.17	405.18	404.30
3.33	3.22	3.50

11+50

408.40

Rt.

75	150	200	250
F 2.28	F 3.30	F 2.42	F 0.63
406.53	407.28	404.53	405.78
404.25	403.98	404.11	405.15
5.58	5.85	5.72	4.68

409.83

F 2.25	F 3.03	F 2.43	F 2.38	F 0.16	C 0.54
406.28	407.03	406.28	405.53	405.03	404.53
404.03	404.00	403.85	404.15	404.87	406.07
4.37	4.90	4.55	4.25	3.53	3.33

F 2.14	F 3.09	F 2.33	F 1.48	F 0.63	C 0.25
406.03	406.78	406.03	405.28	404.78	404.28
403.89	403.69	403.70	403.80	404.15	404.53
4.51	4.71	4.70	4.60	4.25	3.87

F 1.59	F 3.07	F 2.13	F 1.08	F 0.87	F 0.08
405.78	406.53	405.78	405.03	404.53	404.03
404.19	403.46	403.65	403.95	405.66	403.95
4.21	4.94	4.75	4.45	4.74	4.45

F 1.23	F 2.24	F 2.21	F 1.09	F 0.78	C 0.03
405.53	406.28	405.53	404.78	404.28	403.78
404.30	403.34	403.32	403.75	403.50	403.81
4.10	5.06	5.08	4.65	4.90	4.59

F 0.94	F 2.51	F 2.08	F 1.31	F 0.75	F 0.15
405.28	406.03	405.28	404.53	404.03	403.53
404.34	403.52	403.20	403.22	403.28	403.38
4.06	4.88	5.20	5.18	5.12	5.02

408.40

B' Runway - Rough Grades

Gibbs Airport Lt.

250 200 150

C 0.32 F1.03 F2.00

406.28 406.78 407.28
406.60 408.78 405.28
3.23 4.08 4.55

17+00

C 0.32 F1.34 F2.25

406.03 406.53 407.03
406.35 405.19 404.78
3.48 4.64 5.05

16+50

C 0.49 F0.75 F1.75

405.78 406.28 406.78
406.27 405.53 405.03
3.56 4.30 4.80

16+00

C 0.63 F0.68 F1.69

405.53 406.03 406.53
406.16 405.35 404.84
3.67 4.48 4.99

15+50

C 0.98 C 0.56 F1.03

405.28 405.78 406.28
406.26 406.34 405.25
3.57 3.49 4.58

15+00

C 1.18 C 0.23 F0.81

405.03 405.53 406.03
406.31 405.76 405.22
3.62 4.07 4.61

14+50

409.83

75 150 200 250

F2.65 F3.72 F1.60 F1.23 Grader F0.15

408.03 408.78 408.03 407.28 406.78 406.58
405.38 408.06 406.43 406.25 406.78 406.43
4.45 4.77 3.40 3.58 3.05 3.40

F2.74 F3.28 F1.57 F1.23 F0.44 C 0.47

407.78 408.53 407.78 407.03 406.53 406.03
405.04 405.25 406.21 405.80 406.09 406.50
4.79 4.58 3.62 4.03 3.79 3.33

F2.57 F2.25 F1.44 F0.66 F0.10 C 0.39

407.53 408.28 407.53 406.78 406.28 405.78
404.96 405.33 406.09 406.12 406.18 406.17
4.87 4.50 3.74 3.71 3.65 3.66

F2.47 F3.33 F0.96 F0.46 C 0.10 C 0.74

407.28 408.03 407.28 406.53 406.03 405.53
404.81 404.70 406.32 406.07 406.13 406.27
5.02 5.13 3.51 3.76 3.70 3.56

F2.28 F3.42 F1.82 F0.77 F0.26 C 0.61

407.03 407.78 407.03 406.28 405.78 405.28
404.75 404.36 405.21 405.51 405.52 405.89
5.08 5.47 4.62 4.32 4.31 3.94

F2.48 F3.45 F1.94 F0.42 F0.31 C 0.32

406.78 407.53 406.78 406.03 405.53 405.03
404.30 404.08 404.84 405.61 405.22 405.35
5.53 5.75 4.99 4.22 4.61 4.48

409.83

"B" Runway - Rough Grades

Gibbs Airport Lt

20+00

250 ✓ F 0.37 407.78 407.41 6.36	200 ✓ F 0.95 408.28 407.33 6.34	150 ✓ F 1.97 408.78 408.81 6.86
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19+50

F 0.07 407.53 407.46 6.21	F 1.14 408.03 406.89 6.78	F 1.94 408.53 408.59 7.08
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T.P. 5.36 19+00

π corrected 413.67
Grade F 0.99 F 2.02
407.28 407.78 408.28
407.29 406.79 406.26
3.62 4.12 4.65

408.31 22+00
408.28 k Hub

18+50

C 0.15 407.03 407.19 3.72	F 0.79 407.53 406.74 4.17	F 1.32 408.03 406.71 4.20
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18+00 T.P. 5.19

410.91 4.11 405.72 k Hub

C 0.13 406.78 406.91 2.92	F 0.42 407.28 406.86 2.97	F 1.13 407.78 406.65 3.18
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17+50

C 0.22 406.53 406.75 3.28	F 0.37 407.03 406.66 3.17	F 1.57 407.53 405.96 3.87
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409.83

Rt

75 150 200 250 12

75 ✓ F 2.93 409.70 406.77 6.90	150 ✓ F 3.82 410.28 406.46 7.21	200 ✓ F 3.01 409.91 406.90 6.77	150 ✓ F 2.85 409.98 407.13 6.54	200 ✓ F 2.59 410.12 407.53 6.44	250 ✓ F 2.30 410.35 408.05 5.62
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F 3.04 409.56 406.32 7.35	F 3.84 410.03 406.19 7.48	F 2.82 409.50 406.68 6.99	F 2.28 409.33 407.05 6.62	F 2.44 409.64 407.20 6.47	F 2.13 409.83 407.70 5.97
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413.67

F 2.96 409.05 406.09 4.82	F 3.66 409.78 406.12 4.79	F 2.83 409.12 406.29 4.62	F 2.04 408.56 406.52 4.39	F 1.73 408.82 407.16 3.75	F 2.06 409.36 407.30 3.61
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F 2.90 408.78 406.38 4.53	F 3.80 409.53 405.73 5.13	F 2.70 408.78 406.08 4.63	F 1.92 408.03 406.61 4.30	F 1.42 408.21 406.79 4.12	F 1.54 408.64 407.10 3.81
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410.91

F 3.58 408.53 406.95 3.88	F 3.56 409.28 405.72 4.11	F 2.46 408.53 406.07 3.76	F 1.62 407.78 406.16 3.67	F 0.78 407.51 406.73 3.10	F 0.96 407.95 406.99 2.84
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F 2.76 408.28 405.52 4.31	F 3.50 409.03 405.73 4.10	F 2.00 408.28 406.28 3.55	F 0.97 407.53 406.56 3.27	F 0.53 407.03 406.50 3.33	F 0.70 407.35 406.55 3.28
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409.83

"B" Runway Rough Grades

Gibbs Airport

LT

	250	200	150
	F2.48	F3.07	F3.50
	411.28	411.50	411.69
23+00	408.80	408.43	408.19
	4.87	5.24	5.48

	F2.22	F2.75	F3.26
	410.82	411.08	411.30
22+50	408.60	408.33	408.04
	5.07	5.34	5.63

	F2.08	F2.40	F3.09
	410.32	410.57	410.80
Runway 22+00 Intersection	408.24	408.17	407.71
	5.43	5.50	5.96

	F1.79	F2.02	F2.81
	409.82	409.84	409.20
21+50	408.03	407.82	407.39
	5.64	5.85	6.28

	F0.94	F1.48	F2.43
	408.39	408.24	408.73
21+00	408.06	407.76	407.30
	5.62	5.91	6.37

	F0.09	F ^{0.98} 1.02	F2.29
	408.03	408.61	408.20
20+50	407.94	407.63	406.91
	5.73	6.04	6.76

41367

Rt

13

	75	75	150	200	250
	F2.98	F2.82	F2.54	F1.94	F2.12
	411.63	411.78	411.43	410.76	410.82
	408.65	408.96	408.89	408.82	408.70
	5.02	4.71	4.78	4.85	4.97

	F3.20	F2.91	F2.88	F2.52	F1.89
	411.53	411.53	411.52	410.89	410.30
	408.33	408.62	408.44	408.37	408.41
	5.34	5.05	5.23	5.20	5.26

	F3.61	F2.37	F2.94	F2.45	F2.00
	411.23	411.28	411.19	410.58	410.12
	407.62	408.31	408.28	408.13	408.12
	6.05	5.36	5.42	5.54	5.55

	F2.91	F3.07	F3.02	F3.15	F2.45
	410.86	411.03	411.01	410.58	410.16
	407.95	407.96	407.99	407.43	407.71
	5.72	5.71	5.68	6.24	5.96

	F3.23	F2.89	F3.11	F3.03	F2.49
	410.45	410.78	410.73	410.60	410.21
	407.22	407.89	407.62	407.57	407.72
	6.45	5.78	6.05	6.10	5.95

	F3.48	F3.38	F3.23	F2.98	F2.84
	410.07	410.53	410.34	410.42	410.37
	406.59	407.15	407.11	407.44	407.53
	7.08	6.52	6.56	6.23	6.14

41367

"B" Runway - Rough Grades
Gibbs Airport Lit

Station	250	200	150
	130 F149	F094 F122	F123 F144
	411.16 411.35	410.74 411.02	411.25 411.41
26+00 BK	409.86	409.80	410.62
	866'	872'	850'
on 2 stub 26+00			
T.P.	7.40	418.52	6.54 411.12
	F158	F151	F083
	411.53	411.13	411.06
	411.61	411.28	411.28
25+50 BK	410.03	409.37	410.23
	763'	829'	743'
T.P.	6.49	417.66	2.50 411.17
	F2.34	F2.31	F190
	411.94	411.52	411.30
	409.50	409.21	409.40
25+00 PVC	417'	446'	437'
	F190	F2.27	F155
	412.10	411.75	411.52
	410.20	409.48	409.97
24+50	347'	419'	370'
	F2.32	F2.81	F2.61
	413.23	411.98	411.68
	409.91	409.17	409.07
24+00	376'	450'	460'
	F2.76	F3.32	F3.35
	411.75	411.94	411.97
	409.99	408.62	408.78
23+50	468'	505'	550'

413.67

Rt 14

75	75	150	200	250
F1.95	F2.16	F0.15	C0.36	C0.83
412.53	413.28	412.53	411.25	410.39
410.58	411.12	412.38	411.61	411.22
794'	740'	Res. 1	691'	730'
				758'
				418.52
out	out			
F2.01	F1.47	C0.45	C0.48	C0.90
412.38	413.03	412.28	410.89	409.97
410.27	411.56	412.73	411.37	410.87
739'	610'	493'	629'	679'
				655'
				417.66
2.27				
F2.34	F1.61	F0.68	F0.02	C0.41
412.03	412.78	412.07	410.78	409.93
412.70	411.17	411.39	410.76	410.34
409.76	411.17	411.39	410.76	410.34
291'	250'	228'	291'	333'
				277'
1.63				
F1.81	F1.56	F1.28	F0.35	C0.18
411.83	412.53	411.89	410.82	410.11
411.95	410.97	410.61	410.47	410.29
410.14	410.97	410.61	410.47	410.29
353'	370'	366'	330'	338'
				322'
1.87				
F2.25	F2.01	F1.70	F0.95	F0.47
411.63	412.28	411.72	410.86	410.28
411.81	410.28	410.02	409.91	409.81
409.76	410.28	410.02	409.91	409.81
391'	339'	365'	376'	386'
				293'
F2.58	F2.46	F2.01	F1.18	F0.94
411.66	412.03	411.57	410.72	410.24
409.08	409.57	409.56	409.54	409.30
469'	410'	411'	413'	437'
				430'
				413.67

B-Runway Gibbs Airport

Station	250	200	150
	C060	C122	C098
	El. Grade → 411.82	412.32	412.82
	El. stake → 412.42	413.52	413.80
27+00 Bk	Rod Reading → 610	498	472
	C164	C037	C031
	411.72	412.22	412.72
	413.36	412.59	413.63
28+50	516	593	545
	C071	C018	F029
	6031	F044	412.41
	411.18	411.79	412.58
	414.58	412.58	412.58
	411.89	411.97	412.12
28+00	663	655	640
	C077	C012	F057
	410.66	F044	F091
	414.25	411.33	412.59
	411.43	411.49	412.48
	709	703	700
27+50			
	C075	C029	F077
	C034	F004	F097
	410.59	410.78	411.66
	412.74	414.11	412.86
	411.08	411.07	410.89
27+00	741	745	763
	F010	C019	F117
	F040	F047	F140
	410.75	410.57	411.43
	414.05	410.93	411.66
	410.65	410.76	410.26
26+50	787	776	826

Note: Change in grade by curson
 To better fit Grader for Valley
 Gutter Along Director Line
 See Final Grades FB 1927-31-34

41852

Ft.

	75'	2	75	150	200	250
Grade	F113	C037	C034	C022	C005	
413.57	414.32	413.57	412.58	411.92	411.26	
413.57	413.19	413.54	412.92	412.14	411.31	
4.25	5.33	1.58	5.60	6.38	7.21	
	C056	F069	F004	C076	C013	C039
	F008	C029	C029	C029	C029	C029
413.47	414.22	413.47	412.37	411.64	410.91	411.02
414.03	413.53	413.43	413.13	411.71	411.30	
4.45	4.77	5.09	5.39	6.75	7.22	
	F081	F150	F003	C040	C034	C148
	1.44	1.44	1.44	1.44	1.44	1.44
413.33	414.08	413.33	413.23	411.50	410.77	410.81
412.52	412.58	413.30	413.72	411.84	412.25	
6.00	5.94	5.22	5.80	6.68	6.27	
	F108	F222	F070	C045	C168	C102
413.18	413.33	413.18	412.96	411.31	410.53	
412.10	411.71	412.48	412.71	412.99	411.55	
6.42	6.81	6.04	5.81	5.53	6.97	
	F198	F231	F116	C003	C062	C113
412.98	413.73	412.38	411.84	411.06	410.32	
411.00	411.42	411.82	411.87	411.70	411.25	
7.52	7.10	6.70	6.65	6.82	7.07	
	F212	F246	F061	C010	C071	C172
	1.21	1.21	1.21	1.21	1.21	1.21
412.77	413.52	412.73	411.60	410.82	410.04	Bk
410.65	411.06	411.56	411.70	411.53	411.76	
7.87	7.46	6.96	6.82	6.99	6.76	

7.047%
 1.0%

41852

Station 250 200 150

C 1.85 C 2.18 C 2.25
Grade Elev. → 411.95 412.45 412.95
Fl. stake → 413.30 414.63 415.20
32+00 = F.V.C Reading → 7.56 6.73 6.16

C 2.05 C 1.86 C 2.17
413.99 412.99 412.99
414.04 414.35 413.16
31+50 Bk 7.32 7.01 6.20

on stake

31+00 7.23 421.36 439 414.13

C 1.92 C 2.35 C 2.21
412.01 412.51 413.01
413.23 414.86 415.22
31+00 Bk 4.59 3.66 3.30

C 2.04 C 2.65 C 2.12
412.00 412.50 413.00
412.04 415.15 415.12
30+50 Bk 4.48 3.37 3.40

C 2.35 C 1.19 C 1.6
411.97 412.97 412.97
414.32 413.66 414.57
30+00 Bk 4.20 4.86 3.25

C 1.21 C 0.91 C 0.88
411.92 412.42 412.92
413.13 413.33 413.80
29+50 Bk 5.30 5.10 4.72

418.52

75 75 150 200 250

C 1.42 C 0.40 F 0.08 C 0.17 C 0.77 C 1.19
413.70 412.45 413.70 412.74 412.10 411.46
415.12 414.35 413.62 412.91 412.87 412.65
6.24 0.51 7.74 8.45 8.49 8.11

C 1.80 C 0.96 C 0.56 C 0.21 C 0.43 C 1.03
413.74 414.49 413.74 412.70 412.00 411.30
415.54 415.45 414.30 412.91 412.43 412.33
5.82 5.91 7.06 8.45 8.93 9.03

421.36

C 3.00 F 0.38 F 0.68 C 0.21 C 0.30 C 1.54
413.76 414.51 413.76 412.53 411.72 410.90
416.76 414.13 413.08 412.74 412.02 412.44
1.76 4.39 5.94 5.78 6.50 6.08

C 2.20 F 0.69 F 0.99 C 0.11 C 0.70 C 1.33
413.75 414.50 413.75 412.35 411.42 410.50
415.95 413.81 412.76 412.46 412.12 411.83
3.57 4.71 5.76 6.06 6.40 6.69

C 1.45 F 0.64 F 1.29 F 0.31 C 0.13 C 0.82
413.72 414.47 413.72 412.56 411.78 411.00
415.17 413.83 412.43 412.25 411.91 411.82
3.35 4.69 6.09 6.27 6.61 6.70

C 0.65 F 0.92 F 0.60 F 0.58 F 0.66 C 0.11
413.67 414.42 413.67 412.74 412.12 411.50 Bk
414.32 413.50 413.07 412.16 411.62 411.61
4.20 5.02 5.45 6.36 6.20 6.91
Reset

418.52

30.610

B. Runway - Gibbs Airport

Lt.

754

17

Station 250 200 150

75 2 75 10 200 250

C 387 C 544 C 577
 C 510 C 501 C 585
 Elev. Grade → 417.85 412.72 412.29
 Elev. Stakes 416.72 418.03 418.47
 35+00 Readings → 4.14 3.33 2.89

C 331 C 4.51 C 4.63 C 4.32 C 4.64 C 3.91
 413.37 414.12 413.37 412.79 412.40 412.02
 418.68 418.63 418.00 417.11 417.04 415.93
 2.68 2.73 3.36 4.25 4.32 5.43

C 530 C 5.88 C 5.72
 413.40 412.93 412.93
 418.70 418.81 418.65
 34+50 2.66 2.55 2.71

C 4.79 C 4.74 C 3.04 C 2.64 C 2.69 C 2.38
 413.42 414.17 413.42 412.87 412.75 412.45
 418.21 418.91 416.46 415.61 415.44 414.83
 3.15 3.45 4.90 5.75 5.92 6.53

C 5.66 C 5.23 C 5.37
 413.04 412.86 412.93
 418.70 418.09 418.30
 34+00 2.66 3.27 3.06

C 4.61 C 3.08 C 2.48 C 2.04 C 1.93 C 1.99
 413.48 414.23 413.48 412.77 412.72 412.38
 418.09 417.31 415.96 415.21 414.65 414.37
 3.27 4.05 5.40 6.15 6.71 6.99

526 C 4.94
 C 5.28 C 5.19 C 4.47
 412.54 412.58 412.79
 417.77 417.48 417.36
 33+50 3.50 3.88 4.10

C 3.61 C 2.51 C 2.16 C 2.25 C 1.56 C 1.96
 413.64 414.22 413.64 412.87 412.42 411.96
 417.15 416.80 415.70 415.12 413.98 413.92
 4.21 4.56 5.66 6.24 7.38 7.44

C 5.08 C 3.18 C 3.76
 411.84 412.34 412.84
 416.92 415.52 416.60
 33+00 4.44 5.84 4.76

C 1.89 C 1.95 C 1.17 C 1.16 C 2.08 C 1.45
 413.55 414.34 413.69 412.82 412.31 411.79
 415.48 416.29 414.76 413.98 414.39 413.24
 5.88 5.07 6.60 7.38 6.97 8.12

C 2.77 C 2.26 C 1.81
 411.90 412.40 412.90
 414.67 414.66 414.71
 32+50 6.69 6.70 6.65

C 1.80 C 0.58 C 0.42 C 0.50 C 0.90 C 1.50
 413.65 414.40 413.65 412.79 412.22 411.60
 415.25 414.98 414.07 413.29 413.12 413.10
 5.91 6.38 7.29 8.07 8.24 8.26

Note stakes on left
 From 33+00 to 36+00
 12.54 to 15.8 1994-77

421.36

B. Runway - Gibbs Airport Lt.

Station	250	200	150
T.P.	5.81	416.17	1031.410.86
	F3.47	F4.23	F4.03
	411.29	411.79	412.29
	407.82	407.56	408.26
38+00	13.35	13.61	12.91

	F1.62	F2.25	F3.80
	411.34	411.84	412.34
	409.72	409.59	408.54
37+50	14.5	11.58	12.63

	C0.30	F0.40	F2.95
	411.40	411.90	412.40
	411.90	411.50	409.95
37+00	9.27	9.67	11.32

	C0.56	F0.30	F0.27
	411.45	411.95	412.45
	412.01	411.65	412.18
36+50	9.16	9.52	8.99

	36+50	36+50	36+50	36+50
	9.46	9.52	8.99	7.62

T.P.	2.23	421.17	2.22	418.94
	C1.00	C0.92	C1.59	
	411.51	412.01	412.51	
	412.51	412.93	414.10	
36+00	8.85	8.43	7.26	

	C2.16	C3.23	C4.65
	411.56	412.06	412.56
	413.99	415.40	417.21
35+50	7.37	5.96	4.15

421.86

See Note p. 17

L

Rt.

18

	75	75	150	200	250	
	F3.00	F2.93	F1.18	C2.27	C5.74	C7.14
	413.04	413.79	413.64	411.78	410.94	410.09
	410.84	410.86	411.86	414.05	416.68	417.25
	11.13	10.31	9.31	7.12	4.49	3.24

	F3.16	F2.17	C0.62	C4.70	C7.10	C8.45
	413.09	413.84	413.09	411.70	410.78	409.86
	409.93	411.67	413.71	416.40	417.88	418.31
	11.24	9.56	7.46	4.77	3.29	2.8

	F2.16	F0.54	C3.42	C6.52	C7.58	C7.98
	413.15	413.90	413.15	411.97	411.18	410.43
	418.99	413.30	416.64	418.49	418.76	418.41
	10.18	7.81	4.53	2.68	2.41	2.76

	C0.35	C2.07	C5.17	C6.27	C6.35	C8.22
	413.20	413.95	413.20	412.25	411.61	410.96
	413.55	416.92	418.37	418.52	417.96	419.18
	7.62	4.25	2.80	2.65	3.21	1.99

	36+50	36+50	36+50	36+50	36+50
	4.25	3.80	2.65	3.21	1.99

	12.17					
	C4.63	C4.93	C5.70	C5.97	C6.61	C6.84
	413.26	414.01	413.26	412.51	412.01	411.51
	417.89	418.94	418.96	418.48	418.62	418.35
	3.47	2.42	2.40	2.88	3.74	3.01

	C5.86	C4.89	C4.99	C5.49	C6.45	C5.97
	413.31	414.06	413.31	412.64	413.19	411.73
	419.77	418.95	418.30	418.13	418.64	417.70
	2.19	2.41	3.06	3.23	3.72	3.66

421.36

Station 250 200 150

on stub 41+50 E

TP 8.15 414.59 9.73 406.44

F4.42' F4.91' F4.03'

410.96 411.46 411.96
408.54 408.53 407.93

41+00 9.63' 9.62' 8.24'

F2.98' F4.13' F5.63'

411.01 411.51 412.01
408.53 407.38 406.38

40+50 7.64' 8.79' 9.79'

F1.66' F2.87' F5.11'

411.07 411.57 412.07
409.41 408.76 406.96

40+00 6.76' 7.47' 9.21'

F1.11' F2.98' F4.92'

411.13 411.63 412.13
410.02 409.15 407.21

39+50 6.15' 7.02' 8.96'

F2.83' F3.56' F5.41'

411.18 411.68 412.18
408.35 408.12 406.77

39+00 7.82' 8.05' 9.40'

F3.16' F4.31' F5.07'

411.23 411.73 412.23
409.07 407.42 407.16

38+50 8.10' 8.75' 9.01'

41617

75 75 150 200 250

F5.60' F7.49' F8.21' F6.64' F5.24' F4.72'

412.71 413.46 412.71 411.88 411.33 410.78
407.11 405.97 404.50 403.24 406.09 406.06

9.26' 10.20' 11.67' 10.93' 10.08' 10.11'

F6.23' F6.80' F7.72' F5.60' F4.14' F3.12'

412.76 413.51 412.76 411.87 411.28 410.68
406.53 406.71 405.04 406.27 407.14 407.56

9.44' 9.46' 11.13' 9.90' 9.03' 8.61'

F6.76' F7.27' F6.57' F3.49' F1.34' F1.46'

412.82 413.57 412.82 411.87 411.23 410.59
406.06 406.30 406.25 408.38 409.89 409.13

10.11' 9.87' 9.92' 7.72' 6.28' 7.04'

F6.59' F6.70' F4.06' F0.96' F0.32' F0.77'

412.88 413.63 412.88 411.86 411.18 410.50
406.29 406.93 408.82 409.96 410.86 409.73

9.88' 9.24' 7.35' 5.21' 5.31' 6.44'

F5.37' F3.91' F1.72' C0.17' C1.62' C1.47'

412.93 413.68 412.93 411.85 411.13 410.41
407.56 409.77 411.21 412.02 412.75 411.88

8.61' 6.40' 4.76' 4.15' 3.42' 4.39'

F3.25' F2.99' F1.68' C1.03' C4.08' C5.01'

412.98 413.73 412.98 411.84 411.08 410.31
409.73 410.74 411.30 412.87 415.16 415.32

6.44' 5.43' 4.87' 3.30' 1.01' 0.85'

41617

Station	250	200	150	75	2	75	150	200	250
	C 0.85	C 1.19	F 0.92	F 1.95	F 4.03	F 2.45	F 2.09	F 1.41	F 1.79
	410.68	411.13	411.63	412.38	413.13	412.38	411.93	411.78	411.63
	410.98	412.32	411.21	410.43	409.10	409.93	409.94	410.39	409.77
44+00	3.61	2.27	3.38	4.16	5.49	4.66	4.65	4.20	4.82

	C 1.03	C 0.85	F 1.03	F 2.16	F 3.56	F 2.93	F 2.67	F 2.76	F 2.41
	410.68	411.18	411.68	412.43	413.18	412.43	411.93	411.78	411.63
	411.71	412.03	410.65	410.27	409.62	409.31	409.47	409.19	409.36
43+50	2.88	2.56	3.94	4.32	4.97	5.08	5.12	5.40	5.23

	C 0.73	F 1.04	F 2.18	F 2.44	F 4.58	F 5.20	F 4.17	F 4.04	F 3.91
	410.74	411.24	411.74	412.49	413.24	412.49	411.70	411.25	411.15
	411.47	410.20	409.56	410.05	408.66	407.29	407.74	407.99	407.24
43+00	3.12	4.39	5.03	4.54	5.93	7.30	6.85	7.10	7.35

	C 0.12	F 1.54	F 2.84	F 3.46	F 5.70	F 6.30	F 5.19	F 5.48	F 5.04
	410.79	411.29	411.79	412.54	413.29	412.54	411.91	411.49	411.06
	410.91	409.75	408.56	409.08	407.59	406.24	406.72	406.01	406.02
42+50	3.68	4.94	5.64	5.51	7.00	8.35	7.87	8.58	8.57

	F 0.73	F 1.98	F 2.37	F 4.85	F 5.64	F 6.49	F 6.92	F 6.55	F 6.49
	410.88	411.35	411.85	412.60	413.35	412.60	411.90	411.44	410.97
	410.12	409.37	409.48	407.75	407.71	406.11	404.98	404.89	404.78
42+00	4.47	5.22	5.11	6.84	6.88	8.48	9.61	9.70	10.11

	F 1.97	F 2.35	F 2.87	F 5.09	F 6.96	F 7.95	F 5.35	F 6.71	F 6.92
	410.90	411.40	411.90	412.65	413.40	412.65	411.90	411.39	410.88
	408.93	409.05	409.03	407.56	406.44	404.70	406.55	404.68	404.46
41+50	5.66	5.54	5.56	7.93	8.15	9.89	8.04	9.91	10.13

414.59

414.59

B. Runway - Gibbs Airport

Lt.

Station 250 200 150

0.03
 411.20 P-2
 Ckt B.M. on Wagon 46+00 342 411.17

C 1.70' C 0.60' C 0.09'
 410.52 411.02 411.52
 412.22 411.62 411.61
 45+00 End of Grading 237 297 298

C 1.20' C 0.24' F 0.53'
 410.57 411.07 411.57
 411.77 411.31 411.04
 44+50 282 328 356

414.59

77

75 2. 75 150 200 250

21

1.33 C 0.45' C 0.42' F 0.23'
 F 1.38' F 1.63' F 1.60' F 0.10' C 0.15' F 0.23'
 412.27 413.02 412.97 411.88 411.89 410.60
 410.99 411.35 410.67 411.45 411.22 410.37
 3.60 3.20 3.14 3.37 4.22

1.46 0.42 F 0.26'
 F 1.83' F 2.48' F 2.00' F 1.86' F 0.57' F 0.26'
 412.32 413.07 412.97 411.98 411.73 411.10
 410.49 410.59 410.32 409.94 410.88 410.84
 4.10 4.00 4.37 4.65 3.71 3.75

A-RUNWAY-GIBBS AIRPORT

Rough Grades 250 200 150

110+50

40490 40535

110+20

6.33 411.65

405.32 B.M.

109+50

40460' 40510' 40560'

These Grades on left
from 109+00 } see F.B. 1993-44
to 110+00

40450' 40500' 40550'

109+00

↑ FB 1996-76
↓ 109+100

6.33 411.65

Above
405.32 B.M.

22

75 75 150 200 250

F 1.32' F 0.75' C 0.13 C 0.30 C 0.55
406.55' 407.30' 406.55' 405.67' 405.29' 405.00'
405.98' 405.80' 405.80' 405.80' 405.59' 405.55'
5.67 5.85 5.85 6.06 6.10

F 1.88' F 0.91' F 0.06 F 0.15 C 0.31
406.45' 407.20' 406.45' 405.67' 405.29' 405.00'
405.32' 405.54' 405.67' 405.14' 405.31'
6.33 6.11 6.04 6.51 6.34

411.65

on 2 Hub. 10+00 FB 1750-P-71

F 2.27' F 1.07' F 0.35' Grade C 0.64
406.35' 407.10' 406.35' 405.59' 405.16' 404.75'
404.83' 405.28' 405.24' 405.16' 405.39'
6.82 6.37 6.41 6.49 6.26

F 2.57' F 1.68' F 0.77' F 0.12' C 0.63
406.25' 407.00' 406.25' 405.50' 405.00' 404.50'
404.43' 404.57' 404.73' 404.88' 405.13'
7.22 7.08 6.92 6.77 6.52

check
this
= 398.25
ditch

411.65

"A" Runway - Rough Grades

250 200 150

^{c432}
¹⁰⁴⁶⁰
 C 3.35 C 3.97 C 3.27
 405.20 405.30 406.35
 408.55 409.27 409.62
 410 3.38 3.03

113+50

^{c430} ^{c466} ^{c331}
 C 3.30 C 4.66 C 3.31
 405.50 404.75 406.95
 408.80 409.41 409.26
 3.85 3.24 3.39

113+00

T.P. 4.23 412.65 323 408.47

^{c288} ^{c379} ^{c268}
 C 2.88 C 3.79 C 2.68
 405.90 405.10 405.95
 408.78 408.89 408.63
 2.87 2.76 3.02

112+50

^{c27}
 C 1.78 C 2.38 C 2.00
 406.20 405.40 405.60
 407.98 407.78 407.60
 3.67 3.87 4.05

112+00

^{c144}
 C 1.87 C 1.18 C 1.28
 405.00 405.55 405.45
 406.87 406.73 406.73
 4.78 4.92 4.92
 (24.16')

111+50

^{c006} ^{c052}
 C 0.06 C 0.52
 405.40 405.30
 405.46 405.82
 6.19 5.83
 202.7

111+00

411.65

Lt. \$

Rt.

23

75 75 150 200 250

C 1.98 C 0.36 F 0.10 C 0.20 C 0.51 C 1.05
 407.15 407.90 407.15 406.02 405.27 404.52
 409.13 408.26 407.05 406.22 405.78 405.57
 3.52 4.39 5.60 6.43 6.87 7.08

Ditch 10.3%

C 1.79 C 0.77 C 0.46 C 0.73 C 1.33 C 1.94
 407.05 407.80 407.05 405.92 405.17 404.42
 408.84 408.37 407.50 406.63 406.50 406.36
 3.81 4.08 5.15 6.00 6.15 6.29

Ditch 8%

412.65

C 1.41 C 0.72 C 0.31 C 1.50 C 1.91 C 2.20
 406.95 407.70 406.95 405.67 404.82 403.96
 408.36 408.42 407.26 407.17 406.73 406.16
 3.29 3.23 4.39 4.48 4.92 5.49

Ditch 10.2%

C 0.76 F 0.17 C 0.19 C 1.60 C 2.16 C 2.41
 406.85 407.60 406.85 405.41 404.45 403.50
 407.61 407.43 407.04 406.91 406.62 405.91
 4.04 4.22 4.61 4.74 5.03 5.74

Ditch 5.2%

C 0.08 F 0.55 F 0.05 C 0.92 C 1.75 C 1.93
 406.75 407.50 406.75 405.33 404.35 404.00
 406.83 406.95 406.70 406.25 406.10 405.93
 4.82 4.70 4.95 5.40 5.55 5.72

Ditch 7.10%

F 0.33 F 0.97 F 0.38 C 0.74 C 0.91 C 1.20
 406.65 407.40 406.65 405.25 404.35 404.50
 406.32 406.43 406.37 405.99 405.76 405.70
 5.33 5.22 5.38 5.66 5.89 5.95

411.65

"A" Runway - Rough Grades Lt.

250 200 150

116+75 = Bk in Ditch

C 2.44' C 2.35' C 1.60'

406.00 406.50 407.00
408.44 408.75 408.60
4.21 3.90 4.05

116+50

C 2.29' C 2.58' C 2.25'

405.30 406.40 406.90
408.19 408.98 409.15
4.46 3.67 3.50

116+00

115+75 = Bk in Ditch

C 2.41' C 2.65' C 2.32'

405.80 406.30 406.80
408.21 408.95 409.12
4.44 3.70 3.53

115+50

For outlet of
This Ditch
See Pg 1993-55

End of Ditch

C 4.53' C 2.84' C 2.20'

404.20 406.15 406.70
408.79 408.99 408.90
3.86 3.66 3.75

115+00

Re-stake Portion FB 1994-60-62

C 4.34' C 3.22' C 2.32'

404.60 405.95 406.60
408.94 409.17 408.92
3.71 3.48 3.73

114+50

C 3.81' C 3.20' C 2.81'

404.90 405.80 406.50
408.71 409.00 409.51
3.94 3.65 3.34

114+00

412.65

25' Lt
= Ditch

Rt.

24

75 75 150 200 250

C 0.41' F 0.63' F 0.32' C 0.45' C 1.03' C 1.42'

407.75 408.50 407.75 406.41 405.51 404.62
408.16 407.87 407.43 406.86 406.34 406.04
4.49 4.78 5.22 5.79 6.11 6.61

404.50 = Bk

C 0.89' F 0.69' F 0.67' F 0.12' C 0.59' C 0.95'

407.65 408.40 407.65 406.45 405.65 404.85
408.54 407.71 406.98 406.33 406.24 405.80
4.11 4.94 5.67 6.32 6.41 6.85

Bk 115175 = 404.97

C 1.05' F 0.86' F 0.85' F 0.34' C 0.22' C 0.69'

407.55 408.30 407.55 406.42 405.67 404.92
408.60 407.44 406.70 406.08 405.89 405.61
4.03 5.21 5.95 6.57 6.76 7.04

C 1.34' F 0.85' F 0.87' F 0.47' C 0.11' C 1.39'

407.45 408.20 407.45 406.32 405.57 404.82
408.79 407.35 406.58 405.85 405.68 405.21
3.86 5.30 6.07 6.80 6.97 7.44

C 1.33' F 0.43' F 0.34' F 0.14' Grade C 0.38'

407.35 408.10 407.35 406.22 405.47 404.72
408.68 407.67 407.01 406.08 405.47 405.10
3.97 4.98 5.64 6.57 7.18 7.55

C 1.51' F 0.04' F 0.31' Grade C 0.20' C 0.32'

407.25 408.00 407.25 406.13 405.37 404.62
408.76 407.96 406.94 406.14 405.57 404.94
3.89 4.63 5.71 6.51 7.08 7.71

412.65

0.47
Ditch

10.20
Ditch

A: Runway - Rough Grades

250 200 150

F0.94[✓] F1.22[✓] F1.65[✓]
 406.64 407.14 407.64
 406.70 406.92 406.99
 588 566 559

119+50

F0.88[✓] F0.26[✓] F1.62[✓]
 406.52 407.02 407.52
 406.64 406.06 406.90
 5.94 5.52 5.68

115+00

F0.49[✓] F0.69[✓] F1.39[✓]
 406.41 406.91 407.41
 406.92 406.22 406.02
 5.66 6.36 5.56

118+50

F0.04[✓] F0.37[✓] F0.64[✓]
 406.30 406.80 407.30
 406.26 406.43 406.66
 5.32 5.15 4.92

118+00 = PVC

T.P. 4.13 41.58 52.0 407.45

C0.59[✓] C0.27[✓] C0.13[✓]
 406.20 406.70 407.20
 406.79 406.97 407.33
 5.86 5.68 5.32

117+50

C1.52[✓] C0.25[✓] C0.72[✓]
 406.10 406.60 407.10
 407.62 407.55 407.82
 5.03 5.10 4.83

117+00

412.65

75 75 150 200 250

25

F2.06[✓] F2.57[✓] F1.09[✓] C0.99[✓] C1.49[✓] C1.60[✓]
 408.39 409.14 408.35⁺ 407.27 406.59 405.78
 406.33 406.57 407.30 408.26 408.02 407.38
 5.25 5.01 4.28 3.32 3.56 4.20

F2.04[✓] F2.45[✓] F1.12[✓] C1.00[✓] C1.33[✓] C1.55[✓]
 408.27 409.02 408.37⁺ 407.15 406.40 405.66
 406.23 406.57 407.15 408.15 407.73 407.21
 5.35 5.01 4.43 3.43 3.85 4.37

F1.67[✓] F2.31[✓] F0.23[✓] C0.87[✓] C1.26[✓] C1.44[✓]
 408.16 408.91 408.16⁺ 407.03 406.28 405.54
 406.79 406.68 407.23 407.90 407.34 406.98
 5.09 4.98 4.35 3.68 4.04 4.60

40.24 2.0

F1.04[✓] F1.68[✓] F0.17[✓] C0.78[✓] C1.29[✓] C1.50[✓]
 408.05 408.80 408.05⁺ 406.92 406.17 405.42
 407.01 407.72 407.88 407.70 407.46 406.92
 4.57 4.46 3.70 3.88 4.12 4.66

41.58

117+5 405.37 = Blk 10 Dm

F0.38[✓] F1.25[✓] F0.15[✓] C0.66[✓] C1.07[✓] C1.49[✓]
 407.95 408.70 407.95⁺ 406.75 405.95 405.15
 407.57 407.45 407.80 407.41 407.02 406.64
 5.08 5.20 4.85 5.24 5.63 6.01

117+5

C0.09[✓] F0.80[✓] F0.13[✓] C0.72[✓] C1.58[✓] C1.58[✓]
 407.85 408.60 407.85⁺ 406.51 405.61 404.72
 407.94 407.80 407.72 407.23 407.19 406.30
 4.71 4.85 4.93 5.42 5.46 6.35

40.87 2.0

412.65

A Runway - Rough Grades Left

250' 200' 150'

122+50

122+00

F079

F149 F099

406.26 407.74
407.96 406.75

4.47 6.32 6.04

121+50

TP 3.13 412.79 3.92 407.66 on slab
8 22+00
F01700 71

F056 F131 F178

407.04 407.54 408.04
406.48 406.23 406.26

5.10 5.35 5.32

121+00

F077 F126 F140

406.90 407.40 407.90
406.13 406.14 406.50

5.45 5.44 5.08

120+50

F079 F134 F163

406.76 407.26 407.76
405.97 405.92 406.13

5.61 5.66 5.45

120+00

411.58

Right

75 75 150 200 250

26

F1.98 F2.23 F0.79 C1.20 C2.22 C2.22
409.25 410.00 409.25 408.12 407.87 406.62
407.37 407.77 408.46 409.32 409.59 408.81
5.52 5.02 4.33 3.47 3.20 3.95

F2.05 F2.22 F0.80 C1.31 C2.18 C2.28
409.09 409.84 409.09 407.83 407.00 406.16
407.04 407.62 408.29 409.14 409.18 408.44
5.75 5.17 4.50 3.65 3.61 4.35

F1.98 F2.32 F0.89 C1.29 C2.06 C2.60
408.93 409.68 408.93 407.63 406.63 405.70
406.35 407.36 408.04 408.84 408.69 408.30
5.84 5.43 4.75 3.95 4.10 4.49

F1.71 F2.15 F0.95 C1.06 C1.88 C2.20
408.79 409.54 408.79 407.53 406.70 405.86
407.08 407.39 408.34 408.59 408.58 408.15
4.50 4.19 3.25 2.99 3.00 3.43

F1.61 F2.20 F0.86 C0.67 C1.61 C1.80
408.65 409.40 408.65 407.62 406.77 406.02
407.04 407.20 407.79 408.19 408.38 407.82
4.54 4.38 3.79 3.39 3.20 3.76

F2.09 F2.41 F1.00 C0.85 C1.79 C1.62
408.51 409.26 408.51 407.38 406.64 405.90
406.42 406.85 407.51 408.23 408.43 407.52
5.16 4.73 4.07 3.35 3.15 4.06

411.58

"A" Runway - Rough Grades

250 200 150

T.P. 570 414.01 448 408.31 ²²⁺⁰⁰ 181750-72

125+50

125+00

124+50

124+00

123+50

123+00

412.79

Rt.

27

75 2 75 150 200 250

For Elevations Not shown in intercepts
 See Grades for Runway E

F1.42
410.31
408.89
3.90

F1.52 F0.41 C0.11
409.68 408.35 409.02 81
408.16 408.94 409.13
4.63 3.85 3.66

F0.30 F0.29 C1.06
409.25 408.83 408.42
408.95 407.84 409.48
3.84 4.95 3.31

F1.42 C0.42 C1.31 C1.84
409.61 408.84 408.33 407.82
408.19 409.26 409.64 409.66
4.60 3.53 3.15 3.13

F1.22 F0.28 C0.62 C2.04 C2.36
410.16 409.41 408.47 407.85 407.22
407.94 408.43 409.09 409.89 409.58
4.85 4.36 3.70 2.90 3.31

412.79

2.12
 2.11

"A" Runway - Rough Grades

Lt.

250 200 150

F 0.64' F 1.53'

409.42 409.92 410.42
408.78 408.39
523 562

128+50

F 0.92'

409.26
408.34
567

128+00

127+50

127+00

126+50

126+00

41401

Rt.

28

75 75 150 200 250

Grades
for this intersection
see Runway B

"A" Runway

Lt.

250 200 150

CHK Sub 75' 132+00 3.25 410.75^{p. 30} 410.76

C 1.33 C 1.41 C 0.33
410.38 410.88 411.38
411.71 412.29 411.71
2.30 1.72 2.30

131+50

C 1.04 C 0.32 C 0.46
410.22 410.72 411.22
411.26 411.04 411.68
2.75 2.97 2.33

131+00

C 0.18 C 0.21 F 0.18
410.06 410.56 411.06
410.24 410.77 410.88
3.77 3.24 3.13

130+50

F 0.29 F 0.60 F 1.23
409.90 410.40 410.90
409.61 409.80 409.67
4.40 4.21 4.34

130+00

F 0.33 F 0.80 F 1.54
409.74 410.24 410.74
409.41 409.44 409.20
4.60 4.57 4.81

129+50

F 0.53 F 1.07 F 1.93
409.58 410.08 410.58
409.05 409.01 408.65
4.96 5.00 5.86

129+00

414.01

Rt.

75 2 75 150 200 250

29

F 1.58 F 2.25 F 2.47 F 1.30
412.13 412.88 412.13 411.41 410.94
410.55 410.63 409.66 410.11
3.96 3.38 4.35 3.90

F 0.94 F 2.30 F 2.47
411.97 412.72 411.97
411.03 410.42 409.50
2.98 3.59 4.51

F 1.33 F 2.86
411.81 412.56 411.81
410.48 409.73
3.53 4.38

F 1.85 F 2.93
411.65 412.40
409.80 409.47
4.21 4.54

F 2.28
411.49
409.21
4.80

"A" - Runway Rough Grades Lt.

on 2 stub 137+00
T.P. 6.88 412.59 2.92 412.71

75 75 150 200 250

C0.16 C0.45 F0.87
411.34 411.84 412.34
411.50 412.29 411.47
134+50 4.13 3.34 4.16

F2.35 F3.27 F2.27 F1.18 F0.22 C0.81
413.09 413.84 413.09 412.34 411.84 411.34
410.74 410.57 410.82 411.16 411.62 412.15
4.89 5.66 4.81 4.47 4.01 3.98

C0.73 C0.02 F1.10
411.18 411.68 412.18
411.91 411.70 411.08
134+00 3.72 3.93 4.55

F2.09 F3.38 F1.79 F0.84 F0.11 C0.67
412.33 413.68 412.33 412.18 411.68 411.18
410.84 410.30 411.14 411.34 411.57 411.85
4.79 5.33 4.49 4.39 4.06 3.78

C1.16 F0.16 F0.36
411.02 411.52 412.02
412.18 411.36 411.61
133+50 3.45 4.27 3.97

F2.29 F3.36 F2.20 F1.07 C0.22 C0.74
412.77 413.62 412.77 412.02 411.52 411.02
410.48 410.22 410.87 410.95 411.74 411.76
5.15 5.41 5.06 4.68 3.89 3.87

C1.44 C0.14 F0.50
410.86 411.36 411.86
412.30 411.50 411.36
133+00 3.33 4.13 4.27

F2.09 F3.34 F2.24 F0.99 F0.26 C0.65
412.61 413.36 412.61 411.86 411.36 410.86
410.52 410.12 410.37 410.87 411.10 411.81
5.11 5.51 5.26 4.76 4.53 4.12

C2.60 C0.44 F0.43
410.70 411.20 411.70
413.30 411.64 411.27
132+50 2.33 3.99 4.36

F0.95 F3.01 F2.13 F1.15 F0.14 C0.88
412.45 413.20 412.45 411.70 411.20 410.70
411.50 410.19 410.32 410.53 411.06 411.58
4.13 5.44 5.31 5.08 4.57 4.95

C1.53 C0.94 F0.24
410.54 411.04 411.54
412.07 411.98 411.30
132+00 3.56 3.65 4.39

F1.54 F2.88 F2.26 F0.88 F0.09 C0.76
412.29 413.04 412.29 411.54 411.04 410.54
410.75 410.16 410.83 410.66 410.95 411.30
4.88 5.97 5.60 4.97 4.68 4.30

5.33 415.63 410.30

BM on 2 stub
134+00

"A" Runway - Rough Grades

Left

250 200 150

C 0.12 ✓ F 0.44 ✓ F 0.36 ✓
 412.30 412.80 413.30
 412.42 412.36 412.94
 7.17 7.33 6.65

137+50

F 0.15 ✓ F 0.78 ✓ F 1.15 ✓
 412.14 412.64 413.14
 411.99 411.86 411.99
 7.60 7.73 7.60

137+00

F 0.46 ✓ F 1.00 ✓ F 1.39 ✓
 411.98 412.48 412.98
 411.52 411.48 411.59
 8.07 8.11 8.00

136+50

F 0.38 ✓ F 1.09 ✓ F 0.40 ✓
 411.82 412.32 412.82
 411.44 411.23 412.42
 8.15 8.36 7.17

136+00

C 0.81 ✓ F 0.62 ✓ F 1.32 ✓
 411.66 412.16 412.66
 412.47 411.94 410.84
 7.12 8.05 8.75

135+50

C 0.10 ✓ F 0.88 ✓ F 1.27 ✓
 411.50 412.00 412.50
 411.60 411.12 411.23
 7.99 8.47 8.36

135+00

419.59

Fl.

75 25 75 150 200 250

31

C 0.04 ✓ F 0.57 ✓ C 1.09 ✓ C 1.16 ✓ C 2.09 ✓ C 2.26 ✓
 414.05 414.80 414.05 413.30 412.80 412.30
 414.09 414.23 415.14 414.46 414.89 415.26
 5.50 5.36 4.95 5.13 4.70 4.33

F 1.57 ✓ F 1.93 ✓ F 0.05 ✓ C 0.42 ✓ C 1.77 ✓ C 2.36 ✓
 413.89 414.64 413.89 413.14 412.64 412.14
 412.32 412.71 413.84 413.56 414.41 414.50
 7.27 6.88 5.75 6.03 5.18 5.09

F 2.04 ✓ F 2.55 ✓ F 1.43 ✓ F 0.32 ✓ C 0.47 ✓ C 1.21 ✓
 413.73 414.48 415.73 412.98 412.48 411.98
 411.69 411.93 412.30 412.60 412.95 413.89
 7.90 7.66 7.29 6.93 6.64 5.70

F 1.01 ✓ F 2.33 ✓ F 1.97 ✓ F 0.73 ✓ C 0.18 ✓ C 2.01 ✓
 413.57 414.32 413.57 412.82 412.32 411.82
 412.56 411.99 411.60 412.09 412.50 413.83
 7.03 7.60 7.99 7.50 7.09 5.76

F 2.47 ✓ F 3.10 ✓ F 2.21 ✓ F 0.82 ✓ F 0.02 ✓ C 0.48 ✓
 413.41 414.16 413.41 412.66 412.16 411.66
 410.94 411.06 411.20 411.84 412.14 412.14
 8.65 8.53 8.39 7.75 7.45 7.45

F 2.47 ✓ F 3.14 ✓ F 2.21 ✓ F 0.73 ✓ F 0.20 ✓ C 0.94 ✓
 413.25 414.00 413.25 412.50 412.00 411.50
 410.78 410.86 411.04 411.77 411.80 412.44
 8.81 8.73 8.55 7.82 7.79 7.15

419.59

"A" Run of Rough Grades 200 200 150
 station

C 5.90[✓] C 5.85[✓] C 5.48[✓]
 413.10 413.60 414.10
 419.00 419.45 419.58
 140+00 5.81 5.36 5.23

C 4.84[✓] C 5.07[✓] C 5.08[✓]
 412.94 413.44 413.94
 417.78 418.31 419.02
 139+50 7.03 6.30 5.75

C 4.36[✓] C 4.19[✓] C 4.09[✓]
 412.78 413.28 413.78
 417.14 417.47 417.87
 139+00 7.67 7.34 6.94

on 13820
 TR 7.07 424.81 1.85 417.74

C 2.11[✓] C 2.98[✓] C 3.07[✓]
 412.62 413.12 413.62
 414.73 415.60 416.69
 138+50 4.86 3.99 3.90

C 1.00[✓] C 0.62[✓] C 0.86[✓]
 412.46 412.96 413.46
 413.46 413.58 414.32
 138+00 6.13 6.01 5.27

412.59

17.
 75 2 75 150 200 200 32

C 4.93[✓] C 4.77[✓] C 5.18[✓] C 5.94[✓] C 6.88[✓] C 7.54[✓]
 414.85 415.60 414.85 414.10 413.60 413.10
 419.78 420.37 420.03 420.04 420.78 420.64
 5.03 4.44 4.78 4.77 4.33 4.17

C 4.80[✓] C 4.38[✓] C 5.05[✓] C 5.66[✓] C 6.10[✓] C 7.47[✓]
 414.69 415.44 414.69 413.94 413.44 412.94
 419.49 419.82 419.74 419.60 419.54 420.41
 5.32 4.99 5.07 5.31 5.67 4.40

C 4.94[✓] C 3.68[✓] C 4.87[✓] C 4.64[✓] C 5.57[✓] C 6.79[✓]
 414.53 415.38 414.53 413.78 413.28 412.78
 419.47 418.96 419.40 418.42 418.85 419.37
 5.34 5.85 5.41 6.39 5.96 5.24

424.81

C 3.78[✓] C 3.62[✓] C 3.66[✓] C 3.77[✓] C 4.66[✓] C 5.88[✓]
 414.37 415.12 414.37 413.62 413.12 412.62
 418.15 417.74 418.03 417.39 417.78 418.30
 1.44 1.85 1.56 2.20 1.81 1.09

C 1.35[✓] C 1.80[✓] C 2.18[✓] C 3.45[✓] C 3.74[✓] C 4.75[✓]
 414.21 414.96 414.21 413.46 412.96 412.46
 415.56 416.76 416.39 416.91 416.70 417.21
 4.03 2.89 3.20 2.68 2.89 2.38

"A" Rough Grades

250 200 150

142+50

C 6.33	C 5.15	C 4.03
413.90	414.40	414.90
420.23	419.55	418.93
125	193	285

142+16

T.P. 4.79 421.48 8.13 416.69

142+00

C 8.31	C 7.40	C 5.78
413.74	414.24	414.74
422.05	421.64	420.52
276	317	422

141+50

C 8.22	C 7.37	C 5.63
413.58	414.08	414.58
421.80	421.45	420.31
301	336	460

141+00

C 7.79	C 7.18	C 5.94
413.42	413.92	414.42
421.31	421.10	420.36
360	371	445

140+50

C 7.21	C 6.66	C 5.73
413.26	413.76	414.26
420.47	420.42	419.99
434	439	482

424.81

75 2 75 10 148 300 200 33

ca 73

C 2.29	C 0.90	C 0.51	C 1.63	C 0.12	107 turning
415.65	416.40	415.65	414.90	415.25	hours off
417.94	417.30	416.16	416.53	415.37	415.20
354	418	532	425	61	628

421.48

C 3.12	C 0.82	C 1.80	C 1.64	C 1.83	C 0.67
415.49	416.24	415.49	414.75	414.50	415.50
418.61	417.06	417.29	416.39	416.33	416.17
6.20	7.75	7.52	8.92	8.48	8.64

C 2.90	C 1.54	C 2.23	C 3.11	C 3.63	C 3.72
415.33	416.08	415.33	414.58	414.08	413.58
418.23	417.62	417.56	417.69	417.71	417.30
6.58	7.19	7.25	7.12	7.10	7.51

C 5.17	C 2.57	C 3.49	C 4.81	C 5.27	C 5.86
415.17	415.92	415.17	414.42	413.92	413.42
418.34	418.59	418.66	419.23	419.19	419.28
6.47	6.22	6.15	5.58	5.62	5.53

C 3.96	C 3.83	C 4.82	C 6.09	C 6.97	C 6.94
415.01	415.76	415.01	414.26	413.76	413.26
418.97	419.59	419.83	420.35	420.73	420.20
5.81	5.22	4.98	4.46	4.08	4.61

"A" Runway. Rough Grades

250 200 150

Cont.
Chk. B. Mar. Run 145+00

6.15 415.33 ✓

C 1.93 ✓ C 1.10 ✓ C 0.40 ✓
414.70 415.20 415.70
416.63 416.30 416.10
485 518 538

145+00

C 2.44 ✓ C 1.58 ✓ C 1.60 ✓
414.54 415.04 415.54
416.98 416.62 417.14
450 486 434

144+50

C 3.24 ✓ C 2.38 ✓ C 1.46 ✓
414.38 414.88 415.38
417.62 417.26 416.84
386 422 464

144+00

C 4.19 ✓ C 3.35 ✓ C 2.81 ✓
414.22 414.72 415.22
418.41 418.07 418.03
307 341 345

143+50

C 5.75 ✓ C 3.85 ✓ C 3.02 ✓
414.06 414.56 415.06
419.81 418.41 418.08
167 307 340

143+00

421.98

75 2 75 10 200 200 34

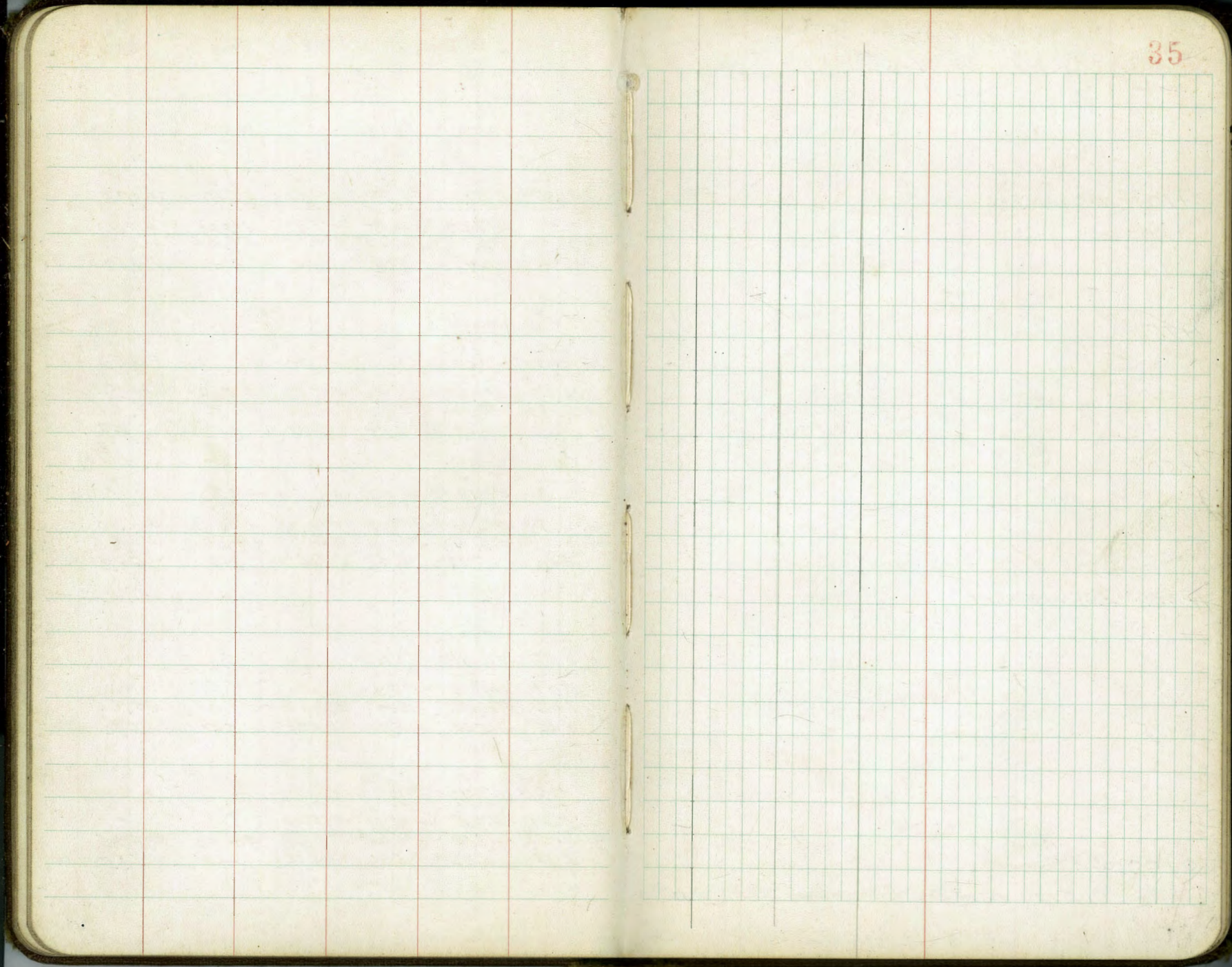
F 0.87 ✓ F 3.19 ✓ F 1.99 ✓ F 1.58 ✓ F 1.19 ✓ F 0.72 ✓
416.43 417.20 416.45 415.70 415.20 414.70
415.58 415.01 414.46 414.12 414.01 413.98
590 647 702 736 747 780

F 0.44 ✓ F 1.65 ✓ F 1.36 ✓ F 1.20 ✓ F 0.68 ✓ F 0.53 ✓
416.29 417.04 416.29 415.54 415.04 414.54
415.85 415.39 414.93 414.34 414.36 414.01
563 609 655 714 712 747

C 0.15 ✓ F 1.18 ✓ F 1.07 ✓ F 0.54 ✓ F 0.80 ✓ F 0.15 ✓
416.13 416.88 416.13 415.33 415.10 414.80
416.28 415.70 415.06 414.79 414.30 414.65
520 578 642 669 718 683

C 1.05 ✓ F 0.30 ✓ C 0.13 ✓
415.97 416.72 415.97
417.02 416.42 416.10 414.94 416.01 414.66
446 506 538 654 547 682
← Leave out in Turnway →

C 1.63 ✓ C 0.70 ✓ F 0.28 ✓ C 0.32 ✓
415.81 416.56 415.81 415.00
417.44 417.26 415.53 415.32 414.80 414.85
404 422 595 616 668 663
in Turnway
→ Leave out →



TAXIWAY -- "F"
Finish - Rough Grades

2+10.96 = F.C.

1+75

1+50

1+23.69 = P.C.C. - See sketch P. 5

0+75

143475
 0+00 = E.A. Runway

517 430.50

415.33 B.M.

36

Lt		Rt.	
50'	25'	25'	50'
F 0.52 ✓		F 0.32 ✓	
415.90	415.65 ✓	415.90	
414.88		415.08	
5.62		5.92	
F 0.72 ✓		F 0.40 ✓	
415.31	415.56 ✓	415.31	
414.59		414.91	
5.31		5.59	
F 0.56 ✓		F 0.39 ✓	
415.37	415.62 ✓	415.37	
414.81		414.98	
5.69		5.52	
F 0.58 ✓		C 0.74 ✓	
415.45	415.70 ✓	415.45	
414.87		416.15	
5.63		4.31	
F 1.03 ✓		C 0.16 ✓	
416.13	416.05 ✓	415.97	
415.10		416.62	
5.40		4.37	
416.88	416.86	416.72	

Cont. Nbr 146100 "A" Runway

Taxinlay - "F" - Rough Grades

50' Lt 25' £ 25' Rt 50' 37

T.P. 8.43 425.88 0.32 417.45

4+25

3+75

3+50

3+25

2+75

3+25

420.50

F1.02				C0.32
417.13 416.11 4.39	417.38	417.63	417.38	417.13 417.45 3.05
F1.58			F1.11	C0.94
416.61 415.03 5.97	417.11		416.86 416.75 4.75	416.00 416.34 4.16
			F0.97	C0.71
	416.85		416.60 415.63 4.87	415.50 ^{2.50' RT} 416.21 4.23 <small>OF 142'-00</small>
F1.23	F1.54		F4.98	
416.09 414.86 5.64	416.34 414.80 5.70	416.59	416.34 415.36 5.14	
C0.17	F1.02		F0.51	
415.58 415.75 4.75	415.33 414.81 5.69	416.08	415.83 415.32 5.18	
F0.54	F0.82		F0.57	
415.19 414.65 5.85	415.44 414.62 5.88	415.69	415.94 414.87 5.68	

420.50

Taxway "F" - Rough Grades

7+25

6+75

6+25

5+75

5+25

4+75

425.88

St.	Lt.	25	£	25	50	38
		50'				
		C 1.73				C 1.99
		418.54		412.04		418.54 ✓
		420.27				420.53
		5.61				5.35
		C 1.71				C 2.38
		418.76		419.26		418.76 ✓
		420.46				421.14
		5.42				4.74
		C 1.55				C 2.73
		418.77		412.27		418.77 ✓
		420.32				421.58
		5.56				4.38
		C 1.27				C 3.54
		418.57		419.07		418.57 ✓
		419.84				422.11
		6.04				3.77
		C 2.56				C 1.91
		418.16		418.66		418.16 ✓
		418.72				420.07
		7.16				5.81
		F 0.11				C 1.28
		417.65		418.15		417.65 ✓
		417.54				418.93
		8.34				6.25

425.88

Walker
Johnson
F. Gregory
Bandy

Taxiway "F" - Rough Grades

T.P. 500 423.90 6.98 418.90

10+25

2+75

9+25

8+75

8+25

7+75

425.88

39

50' 25' B 25 50

C118 ✓

414.52
415.70
10.18

415.02

~~C121~~ ✓

414.52
415.43
6.95

F021 ✓

415.26
415.05
10.83

415.76

~~C125~~ ✓

415.26
419.51
6.37

F049 ✓

416.00
415.51
10.37

416.50

~~C137~~ ✓

416.00
419.37
6.51

F111 ✓

416.74
418.63
10.25

417.24

~~C135~~ ✓

416.74
418.69
7.19

F107 ✓

417.48
416.41
9.47

417.98

~~C121~~ ✓

417.48
418.69
7.19

C024 ✓

418.12
418.36
7.52

418.62

~~C121~~ ✓

418.12
420.16
5.72

425.88

"F" Trenchway - Rough Grades

40

50' 25' 5 25 50

12+01.28

412.80 413.05 412.80

11+76.28

Restaked
see FB 1994-56

C 5.88' ✓
412.89 413.14 412.89 ✓
418.77 418.44
5.13 5.46

11+51.28

413.07 413.32 413.07

11+26.28 - 250' Lt of Runway "B"

C 3.86' ✓ C 4.92' ✓ C 5.41' ✓ C 5.49' ✓
413.07 413.32 413.57 413.32 413.07
416.93 418.24 418.73 418.56
6.27 5.66 5.17 5.34

11+01.28

C 3.08' ✓ C 5.35' ✓
413.40 413.65 413.90 413.65 413.40
416.48 418.75
7.42 5.15

10+75

C 2.17' ✓ C 5.12' ✓
413.78 414.28 413.78 ✓
415.95 418.90
7.25 5.00

423.90
F

423.90
F

"F"-Townway - Rough Grades.

14+51.28

13+76.28 = Runway "B"

13+01.28

12+76.28

12+51.28 - pc. Su. Ret.

12+26.28

423.90

Restaked Sec AB. 1994
56-59

Lt.

E

Rt.

50

25

25

50

41

41340 41343 41346

414.15 414.18 414.21

41340 413.43 413.46

413.17 413.22 413.24

C 5.66 ✓

412.88

418.64

5.36

413.08

412.92

418.18

5.72

C 5.86 ✓

412.78

418.64

5.26

413.09

412.78

418.54

5.39

423.90

7

"F" - Taxiway - Rough Grades

16+26.28

15+76.28

15+26.28

15+01.28

14+76.28

Roughed See FB 1294
56-59

423.90

50

25

E

FT

25

50

42

C2.78 ✓

412.50
415.28
8.62

412.75 ✓

C2.82 ✓

412.50
415.32
8.58

C2.79 ✓

412.70
417.09
6.81

412.95

C2.07 ✓

412.70
414.77
8.13

C3.33 ✓

412.89
416.22
7.68

413.14

C2.34 ✓

412.89
415.23
8.67

C3.34 ✓

413.06
416.40
7.50

413.23

C2.19 ✓

413.08
415.27
8.63

413.23

413.33

413.27

423.90

Taxiway "F" - Rough Grades

17+26.28

17+76.28 - 1/2 mi. Runway to Taxiway "C"

17+01.28 - 15' set off of Taxiway

16+76.28

16+51.28 - pc. 50' Rad. Radius

Lt

Rt.

43

50

25'

25'

25'

50

412.36 412.38 412.39

412.24 412.47 412.30

412.27^{+33' Lt} 412.56 412.30^{+33' Rt}

C3.58

C1.95

412.40 412.65 412.40
 415.98 414.35
 7.92 9.55

423.90

Walker
Allen
& Gregory
Brent
9.27.47

Gibbs Airport
Elevation of Existing Culvert
that is to Drain Ditch - "B" Runway
on Highway

			00/
			407.21
T.P.		4.17	407.20
T.P.	5.51	411.37	1.31 405.86
T.P.	6.41	407.17	0.21 400.76
		12.51	388.46
		11.54	389.43
T.P.	6.16	400.97	8.86 394.81
T.P.	1.22	403.67	6.76 402.45
T.P.	4.96	402.21	2.21 404.25
		7.90	398.56
		7.54	398.92
T.P.	9.62	406.46	5.75 401.84
	4.52	407.59	403.07

44

chk BM on Hub 410519 FB 1750-69

Flow Line 24" Conc. Pipe Culvert To serve South Side Runway A

Flow 18" Conc. Culvert = West End,

Flow 18" Conc. Culvert = East End - opp 250' W of "B" Runway

BM on NW 8400 "B" Runway

Walker
Allen
Branby
F. Gregory
9-3-48

Rough Grades 500' Rt of E
of "B" Runway
from Station 40+00 to 45+00

45+00
chk stake 250' Rt 45+00 499

$\begin{array}{r} 0.07 \\ 410.37 \\ \hline 410.39 \end{array}$

45+00

44+00

43+00

42+00

41+00

40+00

4.64 $\frac{415.38}{\quad}$ 410.74

Rt
500' 45

F 2.73
410.06
407.33
2.05

F 5.02
409.95
404.93
10.45

F 6.10
410.35
404.25
11.13

F 3.29
410.39
407.10
8.28

F 2.62
410.40
407.78
7.60

C 2.49
410.53
413.02
2.36

B.M. on Stake 49+00
FB 1861-10

$\frac{415.38}{\quad}$

Taxiway "C" - Rough Grades
 017 Portions from station 34+00
 to 45+00

39+00

38+00

0.50 418.24

417.74 B.M.

37+00

36+00

35+00

34+00

4.68 422.42

417.74

C 0.57

412.09
 412.66
 5.58

C 5.59

412.15
 417.74
 0.50

418.24

C 5.61

412.21
 417.82
 1.60

C 5.83

412.29
 417.32
 5.10

C 3.13

412.85
 413.48
 6.94

C 1.58

412.41
 413.99
 8.43

422.42

B.M. on S.P.O.T. Hub 38+00 of Taxiway FB 1750
 60

Torway "C" Rough Grades
on Portion Cont. from P-46

chk old Hub 45+00 8.69 409.55 181750-60
45+00

44+00

43+00

42+00

41+00

40+00

418.34

47

F 2.01

411.56
409.55
8.69

F 1.45

411.45
410.00
8.24

F 5.49

411.78
406.29
11.25

F 6.89

411.89
405.00
13.24

F 5.61

411.91
406.30
11.94

F 3.89

412.03
408.14
10.10

418.34

10-10-48

"B" Runway - Ditch on left.
Slope Stakes = 5:1

Station

30+00

531	9.66	408.87 ✓	408.87 ✓
<u>524</u>			
C 007	0.435	9.66	
	21.7		
RP 5.0			

29+50

567	9.87	408.66	993 408.70
<u>571</u>	<u>567</u>		<u>567</u>
F 004	4.2	9.87	4.26 9.83
RP 5.0	21.0		21.0

29+00

609	14.09	408.44	999 408.54
<u>621</u>	<u>609</u>		<u>609</u>
F 012	3.8	14.09	3.9 9.99
RP 5.0	19.0		19.0

28+50

661	10.31	408.22	1016 408.37
<u>653</u>	<u>64</u>		<u>641</u>
C 0.08	12.7	10.31	0.255 10.16
RP 5.0	18.5		18.5

28+00

693	10.53	408.00	1033 408.20
<u>685</u>	<u>693</u>		<u>693</u>
F 002	7.36	10.53	3.4 10.33
RP 5.0	18.0	418.53	18.0

CHK 25' W 31+50

449	414.07 ✓
	419.04 = 003
446	414.07

5.17 418.53

413.36

8 Ditch

48

BM on Stub 250' W 28+50 P-15

"B" Runway - Slope Stakes
For Ditch on Lt.

\$
Ditch

49

33+00

221	8.35	410.18
<u>227</u>	<u>221</u>	
F 0.06	614	8.35
RP 50	30.7	

32+50

367	8.57	409.96
<u>380</u>	<u>367</u>	
F 0.13	649	8.57
RP 50	44.5	

32+00

459	8.79	409.74
<u>413</u>	<u>459</u>	
C 0.46	642	8.79
RP 50	21	

31+50

481	9.01	409.52
<u>493</u>	<u>481</u>	
F 0.12	642	9.01
RP 50	21	

31+00

509	9.23	409.30
<u>501</u>	<u>509</u>	
C 0.08	644	9.23
RP 50	20.5	

30+50

484	9.44	409.09
<u>488</u>	<u>484</u>	
F 0.04	646	9.44
RP 50	23	

418.53

418.53

"B" Runway
Ditch on lit.

8
Ditch

Rk.
12.5

50

37+00

C 0.55 -

411.40
411.95 -
7.40

36+50

C 0.58 ✓
411.45
412.03 -
7.32

36+00

411.51
cut

35+50

= 12.5' →
C 2.83
411.83
414.66 -
4.69

35+00

C 3.89
412.85
416.74 -
3.61

T.P.

1.55 419.35 0.73 417.80

419.35

8

33+50

1.13 8.13 410.40
0.31 1.13
C 0.82 C 7.00 8.13
RP 5.0 35.0

418.53

418.53

→ This ditch from 35 to 45+00 is void

B. Runway
Ditch on left.

Station

40+00

T.R 5.26 416.22 9.09 410.26

39+50

39+00

38+50

38+00

37+50

419.35

ft. 12.5' 51
Ditch 12.5'

F 0.70 ✓
411.07
410.37
5.85

416.22

F 0.87 ✓
411.13
410.26
9.09

~~Void~~

F 0.32 ✓
411.18
410.86
5.07

F 0.99 ✓
411.23
410.24
9.11

F 1.08 ✓
411.29
410.21
9.14

F 0.99 ✓
411.34
410.35
9.00

419.35

B¹ Runway
Ditch on left

43+00

416.22
493
411.29

411.29
408.29
300

42+50

42+00

41+50

41+00

40+50

416.22
5

Ditch

FF

12.5'
Shoulder

52

378 7.98 408.24
373 379
C 0.05
RP 50 C 4.2
21

4.93 7.93 408.29
4.75 4.93
C 0.18
RP 50 C 3.0
15.0

6.17 7.87 408.35
6.04 6.17
C 0.13
RP 50 C 1.7
8.5

Void

C 0.78 ✓

410.74
411.52
470

C 0.16 ✓

410.79
410.95
527

F 0.56 ✓

410.85
410.29
5.93

F 1.18 ✓

410.90
409.72
6.50

F 0.94 ✓

410.96
410.02
6.20

F 0.47 ✓

411.01
410.54
5.68

416.22
5

"B" Runway
Ditch on left

2
Ditch
Rt. shoulder
12.5
53
← 12.5' → 250' →

46+00 "B" Runway P-2
Check of M. Conc. Mass

0.01
411.20
501 411.21

45+00

347 8.20 408.02 410.52
347 347 412.14
0.00 C 473 8.20 4.08
RPSO 23.6

44+50

385 8.15 408.07 410.57
401 385 411.59
F 0.16 C 4.3 8.15 4.63
RPSO 21.5

44+00

449 8.09 408.13 410.63
456 449 410.98
F 0.07 C 3.6 8.09 5.24
RPSO 18.0

43+50

444 8.04 408.18 410.68
329 444 411.73
C 0.45 C 3.6 8.04 4.47
RPSO 18.0

416.22

416.22

Void

"F" Taxiway - Slope stakes
5:1
Ditch on Right - West

3+75

424.72' from p. 55

3+25 Meet Natural Ground

void see p. 58

2+75 " " "

2+25 " " "

1+75 " " "

1+25 " " "

54
L RT L
Taxiway Shoulder Ditch
15' 50' 12.5'

415.0

9.72

7.62

9.72

7.62

7.62

2.1

0.0

10.8

7.62

424.72

void

10-13-48

Walker
Allen
Brandy

Turnway "F" - Slope stakes
for ditch on Right.

6+25 = Apex

Void

see p. 58

5+75

5+25

4+75

4+25

chk. stub 4+25 50' H

$\frac{501}{417.45} = P.37$
728 417.44

T.P. 8.16 424.72 1.76 416.56
2.99 418.32 415.33 B.M.

d
Turnway
"F" 50' * 12.5'

R
Shoulder
Ditch

418.77 416.27 8.45 3.45
 $\frac{3.45}{8.45}$ 3.32
C 5.0 C 0.13
25.0 5.0 RP

This Page

418.57 416.07 8.65 3.65
VOID 8.65 $\frac{3.65}{8.65}$ 3.56
C 5.0 C 0.09
25.0 5.0 RP

418.16 415.66 9.06 3.76
9.06 $\frac{3.76}{9.06}$ 3.51
C 5.3 C 0.25
26.5 5.0 RP

417.65 415.50 9.22 5.22
9.22 $\frac{5.22}{9.22}$ 5.03
C 4.0 C 0.19
20 5.0 RP

417.13 415.25 9.47 6.47
9.47 $\frac{6.47}{9.47}$ 6.37
C 5.0 C 0.10
15.0 5.0 RP

on Curve. Nor 146+00 A' Turnway P-2

Torway "F" Slope stakes
for ditch on Right

9+75

This Page Void

9+25

8+75

Sub
CHK 7+75 8+75

8+25

7+75

7+25

T.P. 2.62 424.06 3.28 421.44

5+75

424.72

Torway
"F"

50'

Shoulder
12.5'

415.76

413.76

11.38

5.60

5.60

5.60

11.90

C 5.7

C 0.04

28.5

50 R.P.

This Page Void

416.00

413.50

10.56

5.46

5.46

5.46

10.56

C 8.1

C 2.80

25.5

50 R.P.

416.74

414.24

9.82

4.82

4.82

4.82

9.82

C 5.0

C 0.16

25.0

50 R.P.

417.98

414.98

9.08

4.68

4.68

4.68

9.08

C 4.40

C 0.00

22.0

50 R.P.

418.12

415.62

8.54

4.44

4.44

4.44

8.54

C 4.6

C 0.04

22.5

50 R.P.

418.54

416.04

8.02

3.52

3.52

3.52

8.02

C 4.5

C 0.07

22.5

50 R.P.

424.06

418.76

416.13

8.59

3.59

3.59

3.59

8.59

C 5.0

C 0.3

22.0

50 R.P.

424.72

"F"
 - Taxiway Slope Stakes
 for Ditch on West

This Page Void

See P-58, 59, 60,

11 + 13.78 = Intersection Ditch & Runway

410.53

chk 50' Rt 10+75 P-40 5.10 ^{0.06} 418.96

10+75

413.66	411.16	12.90	6.60
	12.90	5.60	6.92
		0.60	6.32
		3.15	5.07

10+25

424.06

414.52	412.02	12.06	6.06
	411.30	5.60	5.93
	12.06	0.60	6.07
	424.06	3.0	5.0

$\frac{1}{2}$ Taxiway 50' Rt Shoulder 12.5' Ditch

Walker

Toxway "F" Grades
For Slope Stakes on West
2.5:1'

6+75

6+25 - Beginning Ditch (Instruction by Patterson)

424.60

5+75

5+25

4+75

4+25

TP

3.34

424.60

4.66

421.26

on slab
6+25

6.42

425.92

419.50

Shoulder 8'
Ditch

58

50'

12.5'

416.13

8.47

317

8.47

317

317

C 5.3

F 0.2

181

50' RP

416.27

8.33

373

8.33

373

373

C 4.6

C 0.26

11.5

50' RP

416.07

415.66

415.15

414.63

B.M. Stake 4+25
Page 55

Taxiway "F" - Ditch on West
 Grades Slope Stokes

9+75

9+25

8+75

8+25

7+75

7+25

22460
 7

\$
 Ditch

59

Taxiway "F"

50' 12.5

412.76

11.84

11.84
 6.04
 C 5.8
 14.5

6.04
~~5.94~~
 C 0.10
 11.50

413.50

11.10

11.10
 5.70
 C 5.4
 13.5

5.70
~~5.76~~
 F 0.06
 11.50

414.24

10.36

10.36
 5.3
 C 4.8
 12.0

5.56
~~5.11~~
 C 0.41
 5.00

414.98

9.62

9.62
 5.02
 C 4.6
 11.5

5.02
~~5.25~~
 F 0.23
 5.00

415.62

8.98

8.98
 4.48
 C 4.5
 11.25

4.48
~~4.43~~
 C 0.05
 5.00

416.04

8.56

8.56
 4.16
 C 4.4
 11.0

4.16
~~4.37~~
 F 0.21
 5.00

Taxiway "F" - Dixon Rd
 Slope Stakes
 25.1

"F"
 Taxiway

Stake

Ditch

UU

50' x 12.5' x 12.5'

50' RA
 Check Stake 10+25 "F" Taxiway 5.16

001
 419.43 P-39
 419.44

10+75

411.28

13.32

662

13.32

6.62

659

C 6.7

C 0.03

16.7

10+25

42.460
 7

412.02

12.58

678

12.58

6.78

701

C 5.8

7023

14.5

50 PP

TAXIWAY "C" ROUGH GRADES

Finish Elevations

105+00

104+50

104+00

103+85 = Beg.

103+35

102+85

101+85 P-2

Set B.M. on E. Conc. Mark 762 404.15

4.57 411.77 407.20

Lot

±

PA

61

30 C 0.35 407.02 407.37 4.40	407.32	30 F 0.89 407.02 406.13 5.64	150 F 2.08 405.82 403.74 8.03
--	--------	--	---

C 0.36 407.20 407.56 4.21	407.50	F 0.11 407.20 407.09 4.68	F 0.90 406.00 405.10 6.67
------------------------------------	--------	------------------------------------	------------------------------------

C 0.52 406.82 407.34 4.43	407.12	C 0.35 406.82 407.17 4.60	C 3.57 405.62 405.19 2.58
------------------------------------	--------	------------------------------------	------------------------------------

C 0.52 406.70 407.22 4.55	407.00	C 0.28 406.70 406.98 4.79	331 C 2.31 405.50 408.81 396 276
------------------------------------	--------	------------------------------------	---

406.00 5.77		406.20 5.57	406.98 4.79
----------------	--	----------------	----------------

404.95 6.82		404.61 7.16	405.31 6.46
----------------	--	----------------	----------------

B.M. on % Hub 405.19 FB 1750-60

TAXIWAY - "C" - Rough Grades

Station

108+00

107+50

107+00

106+50

106+00

105+50

411.77

K

R1

62
150

30'

30'

F 0.25 ✓

405.96
405.71 ✓
6.06

406.26

C 0.16 ✓

405.96
406.12 ✓
5.65

C 2.69 ✓

404.76
407.45 ✓
4.32

F 0.10 ✓

406.13
406.03 ✓
5.74

406.43

C 0.38 ✓

406.13
406.51 ✓
5.26

C 2.77 ✓

404.93
407.70 ✓
4.07

F 0.08 ✓

406.31
406.23 ✓
5.54

406.61

C 0.80 ✓

406.31
407.11 ✓
4.66

C 3.07 ✓

405.11
408.18 ✓
3.59

C 0.18 ✓

406.49
406.67 ✓
5.10

406.79

C 0.56 ✓

406.49
407.05 ✓
4.72

C 2.55 ✓

405.29
407.84 ✓
3.53

F 0.12 ✓

406.67
406.48 ✓
5.29

406.97

F 1.21 ✓

406.67
405.46 ✓
6.31

F 0.87 ✓

405.47
404.60 ✓
7.17

C 0.05 ✓

406.84
406.89 ✓
4.88

407.14

F 1.52 ✓

406.84
405.32 ✓
6.45

F 2.71 ✓

405.64
402.93 ✓
8.84

411.77

TRAILWAY - "C" - Rough Grades

Station

111+00

110+50

110+00

109+50

109+00

T.P. 1.82 409.47 4.12 407.65

108+50

411.77

Lt

±

Rt

63

35

30'

150'

F 0.05

F 0.31

C 0.62

405.80 406.10

405.80

404.60

405.75

405.49

405.22

3.72

3.98

4.75

F 0.13

F 0.17

C 0.89

405.75 406.05

405.75

404.55

405.62

405.58

405.44

3.85

3.89

4.03

F 0.02

F 0.06

C 1.39

405.70 406.00

405.70

404.50

405.68

405.64

405.89

3.72

3.83

3.58

F 0.10

C 0.51

C 2.19

405.65 405.95

405.65

404.45

405.55

406.16

406.64

3.72

3.31

2.83

C 0.04

C 0.62

3.45

405.60 405.90

405.60

404.40

405.64

406.22

407.85

3.83

3.25

4.62

408.47

F 0.11

C 0.44

C 3.07

405.78 406.08

405.78

404.58

405.67

406.22

407.65

6.10

5.55

4.12

411.77

Taxiway - "C" - Rough Grades

Station

114+00

113+50

113+00

112+50

112+00

111+50

409.47

Lt Lt Rt

64

30

30

150

F 1.31'

406.10
404.79
4.68

406A0

F 2.10'

406.10
404.00
5.97

F 1.55'

404.90
403.35
6.12

F 1.02'

406.05
405.03
4.44

406.35

F 1.26'

406.05
404.09
5.38

F 1.42'

404.85
403.43
6.04

F 0.77'

406.00
405.23
4.24

406.30

F 1.86'

406.00
404.14
5.33

F 1.32'

404.80
403.48
5.99

F 1.04'

405.95
404.91
4.56

406.25

F 1.52'

405.95
404.43
5.04

F 0.76'

404.75
403.99
5.98

F 0.74'

405.90
405.16
4.31

406.20

F 0.82'

405.90
405.08
4.39

F 0.25'

404.70
404.45
5.02

F 0.34'

405.85
405.51
3.96

406.15

F 0.57'

405.85
405.28
4.19

C 0.26'

404.65
404.91
4.56

409.47

Torway "C" Rough Grades

Station

117+00

T.P. 7.17 411.82 4.32 404.65 on stake 150' at 116+50

116+50

116+00

115+50

115+00

114+50

409.47

Lt. L Rt.

30' 30' 150' 65

F 0.58' F 1.26' F 0.27'

406.40 406.70 406.40 405.2
405.82 405.14 407.93
6.20 6.68 6.89

411.82

F 0.55' F 1.36' F 0.50'

406.3 406.65 406.35 405.15
405.80 404.99 404.65
3.67 4.48 4.82

F 1.02' F 1.42' F 0.63'

406.30 406.60 406.30 405.10
405.28 404.88 404.47
4.19 4.59 5.00

F 1.05' F 1.69' F 1.05'

406.25 406.55 406.25 405.05
405.20 404.56 404.00
4.27 4.91 5.47

F 1.43' F 1.78' F 1.39'

406.20 406.50 406.20 405.00
404.77 404.42 403.61
4.70 5.05 5.36

F 1.52' F 2.01' F 1.58'

406.15 406.45 406.15 404.95
404.63 404.14 403.37
4.84 5.33 5.10

409.47

TAXIWAY - "C" - Rough Grades

120+00

119+50

119+00

118+50

118+00

117+50

411.82

Lt \$ Rt 66
30 30 150

<u>C 0.68'</u>		<u>C 0.28'</u>	<u>C 0.38'</u>
406.70	407.00	406.79	405.94
407.38		407.07	406.32
4.44		4.75	5.50

<u>C 0.49'</u>		<u>C 0.32'</u>	<u>C 0.85'</u>
406.85	406.95	406.68	405.45
407.14		406.57	406.30
4.68		4.85	5.52

<u>C 0.11'</u>		<u>C 0.01'</u>	<u>C 0.67'</u>
406.60	406.90	406.60	405.40
406.71		406.61	406.07
5.11		5.21	5.75

<u>C 0.14'</u>		<u>F 0.49'</u>	<u>C 0.51'</u>
406.55	406.85	406.55	405.35
406.69		406.06	405.88
5.13		5.76	5.96

<u>F 0.36'</u>		<u>F 0.74'</u>	<u>C 0.14'</u>
406.50	406.80	406.50	405.30
406.14		405.76	405.44
5.68		6.06	6.38

<u>F 0.72'</u>		<u>F 0.94'</u>	<u>C 0.37'</u>
406.45	406.75	406.45	405.25
405.73		405.51	405.62
6.09		6.31	6.20

411.82

Taxiway "C" Rough Grades

122+50

122+00

121+50

121+00

120+50

120+05.19 - Beg. Apron on Rt.

411.82

Lt - Rt
30 30 150 180

C 0.36' C 0.39' C 1.79' C 1.23'
408.45 408.75 408.95 407.25 406.95
408.81 408.84 408.04 408.88
3.01 3.28 3.78 2.94

C 0.16' F 0.11' C 1.40' C 1.63'
408.10 408.40 408.12 406.99 406.71
408.26 408.01 408.39 408.34
3.56 3.81 3.93 3.48

C 0.14' F 0.16' C 0.83' C 1.09'
407.75 408.05 407.78 406.72 406.46
407.89 407.62 407.55 407.55
3.93 4.20 4.27 4.27

C 0.37' F 0.11' C 0.37' C 0.86'
407.40 407.70 407.45 406.46 406.21
407.77 407.34 406.83 407.07
4.05 4.48 4.29 4.75

C 0.48' C 0.21' C 0.63' 0.68'
407.05 407.35 407.12 406.19 405.96
407.53 407.33 406.82 406.64
4.29 4.49 5.00 5.18

407.01 406.80 405.74

547

411.82

TAXIWAY - "C" - Rough Grades

23+63.21 Ahead }
 124+86.79 back } Equation = Bisector on L

Taxiway "E"
 124+72.8 = Int. Line 30' Rt of L

124+50

124+16.25 Int. Bisector 150' Rt

124+00

T.P. 6.19 415.66 2.35 409.47

123+50

123+00

411.82

100%
 2 Drain

Lt	L	Rt
30		30 150 180

409.02 409.85 410.15 409.85

C 1.24

408.91
 409.65
 6.01

6.03

C 0.85' C 1.17' C 1.34'

408.42	409.50	409.80	409.50	408.30	408.00
			410.35	409.17	409.34
			5.31	6.19	6.32

415.66

C 0.90' C 1.40' C 1.40'

409.45	409.15	407.95	407.65
	410.05	409.35	409.05
	1.77	2.47	2.77

C 0.77' C 1.56' C 1.78'

409.10	408.80	407.60	407.30
	409.57	409.16	409.08
	2.25	2.66	2.74

411.82

Taxiway - "C" - Rough Grades

Lt. E Rt.

69

25+00

100 ft -K Drain	30		30	150	180
	0.30		0.52	1.26	1.45
	410.70	411.00	410.56	408.80	408.34
	410.90		411.08	410.06	409.72
	4.76		1.58	5.60	5.87

24+50

			0.40	1.12	1.34
409.40	410.48	410.78	410.32	408.48	408.02
			410.72	407.60	409.36
			4.94	6.06	6.30

24+33.15 = Int. Bisector 150' Rt

24+00

409.71	410.27	410.57	410.11	410.18
	409.80		410.12	410.12
	5.86		5.54	

1.56% this side
 0.01 Foot

23+77.20

23+49.22 = line 30' Lt on bisector } same point
 23+00.78 = line 30' Lt on bisector }

415.66

410.50
 409.63
 6.03

415.66

Taxiway - "C" - Rough Grades

28+00

27+50

27+00

26+50

26+00

25+50

415.66

Lt L Rt

	30	30	150	180
C 0.09		F 1.64	F 0.38	F 0.34
411.98	412.28	411.98	410.73	410.42
412.07		410.34	409.85	410.08
3.59		5.32	5.81	5.58
G 0.61		F 1.36		C 0.18
411.76	412.06	411.76		410.69
412.37		410.40	409.77	410.27
3.29		5.36	5.89	5.39
F 0.63		F 1.25		F 0.11
411.55	411.85	411.55		409.75
410.92		410.30	409.82	409.67
4.74		5.36	5.84	6.02
C 0.20				C 0.46
411.33	411.63	411.33		409.42
411.53			410.17	409.88
4.13		out	5.49	5.78
F 0.12		C 0.26		1.26
411.12	411.42	G 0.16	C 0.99	C 1.19
411.00		411.82	409.42	409.68
4.66		411.28	410.41	410.21
		4.38	5.25	5.39
C 0.35		C 0.45	C 1.44	C 1.79
410.96	411.21	410.79	409.10	408.68
411.31		411.24	410.54	410.47
4.35		4.43	5.12	5.19

415.66

Taxonomy "C" Rough Grades

30+80

T.P. 7.62 419.06 4.22 411.44

30+00

29+50

29+00

28+50

28+44.5' - End Apron on Pt.

415.66

Lt. & Rt. 11
30 30 150 180

F 0.72' F 0.90' C 0.84'

412.31 412.61 412.31 411.11
411.59 411.41 411.95

7.47 7.65 7.11

419.06

F 0.16' F 0.22' C 0.30'

412.34 412.64 412.34 411.14
412.13 411.42 411.44

3.48 4.24 4.22

F 0.91' F 1.44' C 0.37'

412.34 412.64 412.34 411.14
411.43 410.90 412.11

4.33 4.76 3.55

F 1.37' F 1.33' C 0.76'

412.28 412.58 412.28 411.08
410.91 410.95 411.84

4.75 4.71 3.82

F 1.50' C 0.10' F 0.89'

412.16 412.46 412.16 410.96
410.66 412.26 410.07

5.00 3.40 3.59

F 0.17'

410.72

410.55

3.11

415.66

Taxiday "C" - Rough Grades

33+50

33+00

32+50

32+00

31+50

31+00

419.06

H. & RA

30'

30'

150' ⁷²

C 1.18

412.13 412.43
413.26
5.60

C 1.89

412.13 412.42
413.02
5.09

C 2.77

410.99 411.28
413.70
5.36

C 1.61

412.16 412.46
413.77
5.29

C 1.82

412.16 412.46
413.98
5.08

C 3.42

410.96 411.28
414.38
4.68

C 0.66

412.19 412.49
412.85
6.21

C 3.66

412.19 412.49
414.85
4.21

C 2.95

410.99 411.28
413.94
5.12

C 0.39

412.22 412.52
412.61
6.45

C 0.73

412.22 412.52
412.95
6.11

C 2.28

411.02 411.31
413.30
5.76

C 0.46

412.25 412.55
412.71
6.35

C 0.55

412.25 412.55
412.80
6.26

C 2.32

411.05 411.34
413.37
5.69

F 0.24

412.28 412.58
412.04
7.02

F 0.24

412.28 412.58
412.04
7.02

C 1.45

411.08 411.37
412.53
6.53

419.06

Taxiway "C" - Rough Grades

35750

35700

3416428 - ELY Side Taxiway "F"

34160

341428 - WLY Side Taxiway "F"

34100

41906

24

2

RT

73

30

30

150

C 399

412.01
416.00

3.06

412.31

C 367

412.01
415.68

3.68

C 422

410.81
415.03

4.03

C 398

412.04
416.02

3.04

412.34

C 376

412.04
415.80

3.26

C 392

410.84
414.76

4.30

412.36

C 275

412.07
414.82

4.24

412.37

C 307

412.07
415.14

3.92

C 352

410.87
414.39

4.67

412.39

C 183

412.10
413.93

5.13

412.40

C 200

412.10
414.10

4.96

C 381

410.90
414.71

4.35

41906

Taxiway "C" Rough Grades

38+50

38+00

37+50

37+00

36+50

7.8

5.72 420.21

4.57 414.49

36+00

419.06

30'

30'

74
155

C 1.33

411.82
413.15
7.06

412.12

C 5.58

411.92
417.40
2.81

C 6.61

410.62
417.23
2.98

C 1.22

411.85
413.07
7.14

412.15

C 5.84

411.95
417.29
2.92

C 6.34

410.65
416.99
3.22

C 2.69

411.88
414.57
5.64

412.18

C 5.37

411.88
417.25
2.96

C 5.79

410.68
416.47
3.74

C 2.69

411.91
414.60
5.61

412.21

C 5.90

411.91
417.81
2.40

C 5.74

410.71
416.45
3.76

C 3.39

411.95
415.34
4.87

412.25

C 6.51

411.95
418.46
1.75

C 4.39

410.75
415.14
5.07

420.21

C 3.62

411.98
415.60
3.46

412.28

C 5.07

411.98
417.05
2.01

C 3.71

410.78
412.49
4.57

419.06

Taxway "C" Rough Grades

41750

T.R 4.62 41505 9.78 410.43

150' RT
41700

41400

40750

40400

39750

39400

42021

N £

RT

75
150

30

30

F 6.13		F 5.97	C 0.14
411.62	411.92	411.62	410.42
405.49		405.65	410.56
9.56		9.40	4.49

41505

F 4.55		F 4.80	C 0.02
411.61	411.91	411.61	410.41
407.06		406.81	410.43
13.15		13.40	9.78

F 9.78		F 4.22	F 0.25
411.70	412.00	411.70	410.50
406.92		407.48	410.25
13.29		12.73	9.96

F 3.30		F 2.97	C 2.54
411.73	412.03	411.73	410.53
408.43		408.76	413.07
11.78		11.45	7.14

F 1.07		F 1.25	C 5.73
411.76	412.06	411.76	410.56
410.69		410.51	416.29
9.52		9.70	3.92

F 0.62		C 2.81	C 6.77
411.79	412.09	411.79	410.59
411.17		414.60	417.36
9.04		5.61	2.85

42021

Taxiway "C" - Rough Grades

44+50

44+00

43+50

43+00

42+50

42+00

415.05

L. S. RT.

76
150

30'		30'	
1.64		F 2.26	
F 1.52		F 2.14	C 0.43
411.32	411.62	411.32	410.00
411.80	411.88	411.20	410.43
409.68		409.06	4.62
5.37		5.99	

F 2.32		F 2.52	C 0.63
F 1.89			
411.58	411.67	411.37	409.95
411.75	411.75	411.15	410.58
409.26		408.63	4.47
5.79		6.42	

F 2.36		F 4.77	C 0.54
411.58			
411.42	411.72	411.42	410.22
409.06		406.65	410.76
5.99		8.40	4.29

F 3.68		F 6.40	C 0.55
411.48	411.78	411.48	410.28
407.80		405.03	410.83
7.25		9.97	4.22

F 7.62		F 7.12	C 0.66
411.53	411.83	411.53	410.33
403.91		404.41	410.96
11.14		10.64	4.09

F 7.16		F 6.54	C 0.26
411.59	411.89	411.59	410.39
404.43		405.05	410.65
10.62		10.00	4.40

41505

Walker
Johnson
Miller
Grant
10-28-48

Taxiway - 'C' - Rough Grades.

Completed
3:50 Pm

"B" Runway
Check Mon 46+00
FR
Check Mon 46+00

0.02
411.20 = p-2
482 411.22
4.12 410.93
on Mon
47+09.28
Taxiway 'c'

46+09.28

4.82
5.11 416.04 4.12
410.89
410.93
p 78
on Mon
47+09.28
Taxiway 'c'

2

30'

30'

77
150

6.65

6.91

7.22

416.04

46+00

5.44

5.83

6.66

45+50

4.68

7.06

5.49

45+09.28

411.25

411.55

411.25

45+00

F 0.70

F 1.91

F 0.40

411.26

411.56

411.26

410.06

410.56

409.35

409.66

4.49

5.70

5.39

415.05

415.05

Walker
Johnson
Rope
Riley

10-21-48

Set Permanent Bench Marks

			415.28	415.27 = Mean
		4.96	415.26	
T.P.	6.14	420.22	4.51	414.08
	6.01	418.59		412.58 - BM #4

			01	
			0.04	
			20	Sept 79
CHK		6.43	410.89	BM #6

T.P.	4.31	417.32	5.74	413.01
------	------	--------	------	--------

T.P.	5.63	418.75	4.83	413.12 BM #5
------	------	--------	------	--------------

T.P.	5.37	417.25	4.91	412.58 BM #4
------	------	--------	------	--------------

T.P.	5.74	416.99	3.71	411.25 BM #3
------	------	--------	------	--------------

T.P.	5.44	414.96	3.22	409.52
------	------	--------	------	--------

T.P.	6.93	412.74	4.03	405.81 BM #2
------	------	--------	------	--------------

T.P.	6.06	409.84	4.60	403.78 BM
------	------	--------	------	-----------

	5.31	408.38		403.07 B.M. #1
--	------	--------	--	----------------

Conc. Mon Sta 47+00, 28 P-77

Iron Pipe Sta ^{90' LT} 35+75 Rwy "B"

Iron Pipe Sta ^{300' LT} 29+00 Rwy "B"

Iron Pipe Sta ^{85' LT} 24+00 Rwy "B"

Permanent Bench Monument Iron Pipe Sta ^{on Bisector Line} 120+00 Rwy "A"

Sta ^{250' LT} 12+00 Rwy "B"

Conc. Mon. Sta. 8+00 Rwy "B" P-2

Walker
Johnson
F. Gregory

Transfer of ^{Temporary} Bench Marks
Gibbs Airport

To Concrete Monuments

7.87	416.99	409.12
FB 1750-62	5.79	411.20
chk sub 42700	2.26	407.73 ✓
5.77	422.48	416.71 ^{E. Hub} 42+16.15
	7.15	415.33

B.M. on Hub 44+00 FB 1750-62
 N.W. Cor Mon - High Point
 B.M. Conc. Mon 46+00 B-Runway
 FB 1750
 Set B.M. Conc. Mon 46+00 "A" Runway

10-21-48

Check Levels Bench Marks P-78
Mean Elex

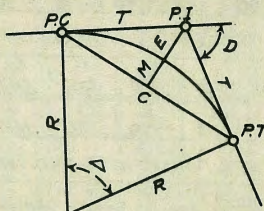
		5.53	415.28
T.P.	6.49	420.81	3.33 414.32
	5.07	417.65	412.58
BM	check No 6 P. 78	5.93	410.92 410.905
T.P.	4.82	416.85	6.58 412.03
T.P.	5.48	418.61	4.93 413.13 413.125
T.P.	5.48	418.06	4.81 412.58 412.58 ✓
T.P.	6.13	417.39	3.82 411.26 411.255
T.P.	6.14	415.08	4.16 408.94
T.P.	7.28	413.10	4.36 405.82 405.815
T.P.	5.64	410.18	4.44 404.54
	5.91	408.98	40.307

High Point
 B.M. #7 on Conc. Mon 46+00 "A" Runway
 B.M. #4
 B.M. #6
 B.M. #5
 B.M. #4
 B.M. #3
 B.M. #2
 B.M. Mon P-78 - B.M. #1

Check

DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

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CURVE FORMULAS

Radius= $R = \frac{50}{\sin \frac{D}{2}}$ (1) Degree of Curve= D and $\sin \frac{D}{2} = \frac{50}{R}$ (2)

Tangent= $T = R \tan \frac{\Delta}{2}$ (3) Length of Curve= $L = 100 \frac{\Delta}{D}$ (4)

Middle ordinate= $M = R(1 - \cos \frac{\Delta}{2})$ (5) $= R \text{vers} \frac{\Delta}{2}$ (6)

External= $E = T \tan \frac{\Delta}{4}$ (7) $= R \div \cos \frac{\Delta}{2} - R$ (8) $= R \text{exsec} \frac{\Delta}{2}$ (9)

Long Chord= $C = 2 R \sin \frac{\Delta}{2}$ (10) Δ = Central Angle

EXPLANATION AND USE OF TABLES

Stations.—Given P. I.—Sta. 161+60.35 to find Sta. of P. C. and P. T. $\Delta = 62^\circ 10'$ $D = 8^\circ 20'$. From Table IV for 1° curve $T = 3454.1$ and $\div 8\frac{1}{4} = 414.49$ ft. From Table V correction = .36 or $T = 414.85$ ft. P. C. = Sta. P. I. — $T = 157 + 45.50$. Also from (4) $L = 746.00$ and P. T. = Sta. P. C. + $L = 164 + 91.50$.

Offsets.—Tangent offsets vary (approximately) directly with D and with square of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent offset for 100 ft. = 7.27 ft. Distance = 158 — Sta. P. C. = 54.50, hence offset = $7.27 (54.50 \div 100) = 2.16$ ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(54.50)^2 \div (2 \times 688.26) = 2.16$ ft.

Deflections.—Deflection angle = $\frac{1}{2} D$ for 100 ft., $\frac{1}{4} D$ for 50 ft., etc. For c ft. = (in minutes) $.3 \times C \times D^\circ$ or = defl. for 1 ft. from Table III $\times C$. For Sta. 158 of above curve = $.3 \times 54.5 \times 8\frac{1}{4} = 136.2'$ or $2^\circ 16.2'$, or = $2.50 \times 54.5 = 136.2'$ from Table III. For Sta. 159 deflection angle = $2^\circ 16.2' + 8^\circ 20' \div 2 = 6^\circ 26.2'$, etc.

Externals.—May be found in similar manner to tangents. Thus E for curve above is 115.37. For from Table IV for 1° curve $E = 960.6$ for $8^\circ 20' = 960.6 \div 8\frac{1}{4} = 115.27$ and from Table V correction = .10 or $E = 115.37$ ft. Or suppose $\Delta = 32^\circ$ and E is measured and found to be 42 ft. What is D ? From Table IV $E = 230.9$ and $\div 42 = 5.5$ or $D = 5^\circ 30'$.

4.16 416.74

412.58 BMH

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Di
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6"
is

72
6 3 1/2

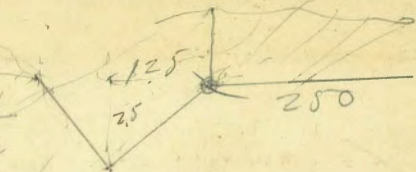
50 + 27.10
35 + 15

40964
505
41367
532
40832

783

421.36

9.64
416.72



461.2 = Base Tank

408.42

530

413.72

310

408.62

409.54

C 4.78

408.7

537

414.08

810

419.18

409.0

C 4.5

409.27

520

414.27

530

418.92

460

C 4.9

416.53

190

419.13

190

417.48

414.75

C 2.73

407.6

406.73

317

411.85

406.6

406.17

C 1.44

407.6

52

412.9

161

407.7

405.03

C 2.67

408.89

520

414.09

500

408.89

489

400

7314

3 1/2

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1 1/2
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9 + (20 - 16) * 2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.

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