

1858

W. H. W. W.

W. H. W. W.  
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# 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  $30.6 + (20 - 16) \cdot 2$  or 2 ft. added to 30.6 = 32.6. For slopes of 1 on 1½ see inside of back cover.

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# 1858

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This Field Book is manufactured of a High Grade 50% Rag Paper having a WATER RESISTING SURFACE, and is sewed with Bing Special Enamel Waterproof thread.

Made in U. S. A.



WNW  
SE

Adams Ave Roadway  
Typical Sections

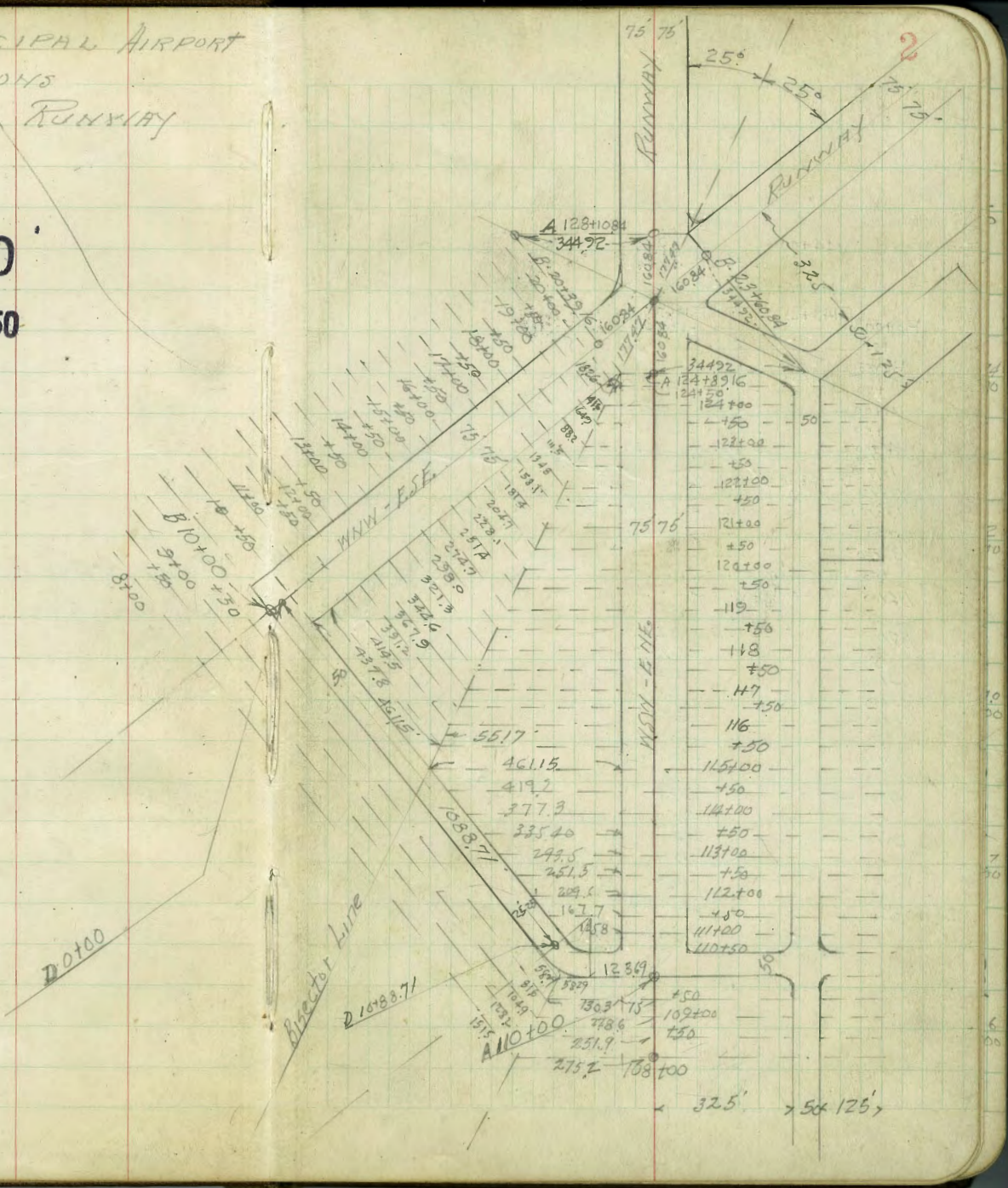
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Walker  
Johnson  
Allen  
Morgan  
6-8-48

GIBBS MUNICIPAL AIRPORT  
CROSS SECTIONS  
A - NSW - ENE RUNWAY

INDEXED  
N.K.  
FEB 10 1950









A RUNWAY WSW-ENE  
CROSS SECTIONS

105+50

105+00

104+50

104+00

103+50

102+85

Notes Reduced  
6-29-40  
L.H. Brown

4.97 412.17

407.20

H.

E

ST. 4

404.3	404.7	405.1	404.6	404.4	404.8	405.3
7.9 250	7.8 300	7.1 325	7.6 375	7.8 400	7.1 450	6.9 500
405.7	406.5	406.4	406.4	406.7	407.3	407.7
6.5 250	5.7 300	5.8 325	5.8 375	5.8 400	4.9 450	4.5 500
406.9	407.4	407.3	407.1	407.2	408.0	409.3
5.8 250	4.8 300	4.7 325	5.1 375	6.0 400	4.2 450	2.9 500
407.2	407.6	407.6	407.0	406.7	406.2	405.3
5.0 250	4.6 300	4.6 325	5.2 375	5.5 400	6.0 450	6.9 500
407.4	407.4	407.2	406.2	405.6	404.8	403.8
4.8 250	4.8 300	5.0 325	6.9 375	9.6 400	7.4 450	8.4 500
407.0	406.6	406.7	405.3	404.6	403.0	
5.2 250	5.6 300	5.5 325	6.9 375	7.1 400	7.6 450	9.2 500

B.M. on Hub 410.519 E.B. 1750 4.60  
412.17











A. RUNWAY

Stations

CROSS SECTIONS

111+00 Cont.

406.41

111+00

110+00 Cont.

110+50

406.01

110+00 Cont.

405.31

110+00 on Hub

649

405.32

110+00  
F81730  
80

110+00

411.81  
7

L

R

PL 7

405.1	405.4	406.0	406.1	406.3	406.4	406.4	406.3	406.1	406.0	405.7
67 3008	64 150	58 100	57 75	55 50	64	54 50	53 75	67 100	58 150	61 200
						405.7	405.8	405.7	405.4	405.4
						61 250	60 300	61 325	64 375	64 400
						405.6	405.7	405.5	405.5	406.2
						62 300	61 325	63 375	63 400	56 450
						405.6	405.7	405.5	405.5	405.4
						62 300	61 325	63 375	63 400	56 450
	405.0	405.4	405.5	405.7	406.0	405.8	405.8	405.7	405.7	405.6
	68 1581	64 100	63 75	65 50	58	60 50	60 75	61 100	61 50	62 200
	404.7	404.6	405.0	405.3	405.3	405.4	405.5	405.6	405.6	405.1
	71 182	72 150	68 100	65 75	65	64 50	63 75	62 100	62 150	67 200
						405.4	405.7	405.7	406.2	406.0
						64 300	61 225	61 375	56 400	58 450
						405.4	405.7	405.7	406.2	406.0
						64 300	61 225	61 375	56 400	58 450
						405.4	405.7	405.7	406.2	406.0
						64 300	61 225	61 375	56 400	58 450
						405.4	405.7	405.7	406.2	406.0
						64 300	61 225	61 375	56 400	58 450

411.81  
7



A. Runway in Cross Sections

Stations

113+00

112+50 Cont.

112+50

408.31

112+00 Cont.

407.51

113+00

111+50

111+50

406.91

411.81

17

407.4	407.7	408.1	408.7	406.2	405.5	405.1	404.1	403.7	403.6	403.4
44 368.5	41 350	37 300	31 250	56 250	63 300	67 325	77 375	81 400	82 450	84 500
			408.2	405.1	404.8	404.4	404.2	404.0	403.8	
			34 326.5	67 300	70 325	74 375	76 400	78 450	80 500	
408.3	408.6	408.7	408.5	408.2	408.3	408.4	408.3	407.6	407.3	406.2
35 300	34 250	31 200	33 150	36 100	35 75	34 50	35 25	42 50	45 75	56 250
407.9	407.9	407.8	407.6	407.6	407.6	407.7	407.5	407.3	407.1	406.6
39 284.6	33 250	40 200	48 150	42 100	42 75	41 50	43 25	45 50	47 75	52 200
								406.0	405.4	404.3
								58 250	64 300	75 500
								66 325	69 375	72 400
								405.2	404.9	404.6
								74 450	74 450	75 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.6	405.4	405.2
								67 400	67 400	68 450
								405.2	405.1	405.0
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450
								405.6	405.4	405.2
								72 500	72 500	72 500
								404.6	404.4	404.3
								62 300	64 325	66 375
								405.4	405.2	405.1
								67 400	67 400	68 450







A. Runway

Station

116+00

115+50 Cont.

115+50 Cont.

TR 4.54 411.90 5.28 407.36

115+50 407.44

115+50

5.28 412.64 4.45 407.36

115+00 407.36

115+00

411.81

405.5  
64  
487.5

405.7  
62  
450

406.1  
5.8  
400

406.8  
5.1  
350

407.5  
4.4  
300

405.4  
6.5  
300

405.2  
6.7  
325

404.7  
7.2  
375

404.6  
7.3  
400

404.3  
7.7  
450

404.2  
7.6  
500

404.3  
7.6  
500

409.0  
3.6  
200

409.1  
3.5  
150

408.7  
2.2  
100

408.4  
4.2  
75

407.6  
3.0  
50

411.90  
5.2

405.4  
7.2  
512.8  
Discher

405.6  
7.0  
500

405.7  
6.9  
450

406.0  
6.6  
400

407.4  
5.2  
350

407.9  
4.7  
300

408.3  
4.3  
250

408.4  
3.4  
300

408.8  
3.0  
250

409.0  
2.8  
200

408.9  
2.9  
150

408.5  
3.3  
100

408.6  
2.2  
75

408.0  
3.8  
50

407.38  
4.45  
25

406.9  
4.9  
25

406.5  
5.3  
75

406.4  
5.4  
100

405.8  
6.0  
150

405.6  
6.2  
200

405.1  
6.7  
250

405.4  
6.1  
536.15

405.5  
6.3  
500

406.2  
5.6  
450

407.2  
4.6  
400

407.6  
4.2  
350

405.0  
6.8  
300

404.5  
7.3  
325

404.3  
7.5  
375

404.1  
7.7  
400

403.6  
8.2  
450

403.3  
8.5  
500

411.81



A. RUNWAY CROSS SECTIONS

Stations

117+50 Cont

407.60

117+50

117+00 Cont.

117+00

407.80

116+50

407.80

116+50

407.90

116+00

411.90

51 200	46 150	44 100	44 75	43 50	42 50	40 75	41 100	34 200	38 200
406.8	407.3	407.5	407.5	407.6	407.7	407.9	407.8	407.5	407.1
7.0 419.6	6.9 400	6.4 350	6.0 300	5.1 250	5.1 250	5.9 300	6.3 325	6.5 375	6.4 400
404.9	405.0	405.5	405.9	406.8	406.8	406.0	405.5	405.4	405.5
6.6 442.9	6.5 400	6.0 350	5.4 300	4.4 250	5.9 250	6.1 300	6.1 345	6.8 375	6.8 400
405.3	405.4	405.9	406.5	407.5	406.0	405.8	405.6	405.1	405.1
4.3 200	4.0 150	4.0 100	4.0 75	3.9 50	4.1 50	4.2 75	4.3 100	4.8 150	5.2 200
407.6	407.9	407.9	407.9	408.0	407.8	407.8	407.7	407.6	407.1
3.1 200	3.3 150	3.6 100	2.7 75	3.6 50	4.1	4.2 50	4.5 75	4.6 100	5.0 150
408.8	408.6	408.3	408.2	408.3	407.8	407.7	407.4	407.3	406.9
6.7 466.2	6.6 450	6.0 400	5.5 350	4.7 300	3.4 250	5.8 250	5.9 300	6.1 325	6.9 375
405.2	405.3	405.9	406.4	407.2	408.5	406.1	406.0	405.8	404.8
3.5 250	2.9 200	2.7 150	3.3 100	3.4 75	3.7 50	4.20	4.7 50	4.8 75	4.9 100
408.4	409.0	409.2	408.6	408.5	408.2	407.0	407.1	407.0	406.4
5.8 250	5.9 300	6.1 325	6.9 375	7.1 400	7.2 450	7.3 500	4.8 75	5.5 100	5.5 150
405.2	405.3	405.9	406.4	407.2	408.5	406.1	406.0	405.8	404.8
3.5 250	2.9 200	2.7 150	3.3 100	3.4 75	3.7 50	4.20	4.7 50	4.8 75	4.9 100
408.4	409.0	409.2	408.6	408.5	408.2	407.0	407.1	407.0	406.4
5.8 250	5.9 300	6.1 325	6.9 375	7.1 400	7.2 450	7.3 500	4.8 75	5.5 100	5.5 150
405.2	405.3	405.9	406.4	407.2	408.5	406.1	406.0	405.8	404.8
3.5 250	2.9 200	2.7 150	3.3 100	3.4 75	3.7 50	4.20	4.7 50	4.8 75	4.9 100
408.4	409.0	409.2	408.6	408.5	408.2	407.0	407.1	407.0	406.4
5.8 250	5.9 300	6.1 325	6.9 375	7.1 400	7.2 450	7.3 500	4.8 75	5.5 100	5.5 150
405.2	405.3	405.9	406.4	407.2	408.5	406.1	406.0	405.8	404.8
3.5 250	2.9 200	2.7 150	3.3 100	3.4 75	3.7 50	4.20	4.7 50	4.8 75	4.9 100
408.4	409.0	409.2	408.6	408.5	408.2	407.0	407.1	407.0	406.4
5.8 250	5.9 300	6.1 325	6.9 375	7.1 400	7.2 450	7.3 500	4.8 75	5.5 100	5.5 150

411.90

1



A. RUNWAY - CROSS SECTIONS

Station

119+00

406.55

119+00

118+50

406.70

118+50

118+00

407.10

118+00

411.90

11

8

11-12

6.0	405.9	6.8	405.1	5.5	406.2	5.5	406.55
250	3497	200	3497	100	406.2	50	407.0
5.7	406.2	6.4	405.5	75	406.3	75	407.2
5.9	406.0	6.3	405.6	50	406.4	100	407.4
5.6	406.4	6.3	405.6	50	406.5	150	408.1
5.4	406.5	5.9	406.0	200	406.6	200	407.7
5.1	406.5	6.1	405.8	150	406.7	250	407.3
5.2	406.7	5.0	406.9	300	406.8	300	407.3
4.8	407.1	5.2	406.7	325	406.9	325	407.4
4.5	407.4	5.3	406.6	375	406.6	375	407.4
4.2	407.7	5.3	406.6	400	406.6	400	407.7
4.1	407.8	5.3	406.6	450	406.6	450	407.7
4.1	407.5	5.4	406.5	500	406.6	500	407.7
4.4	407.8	5.8	406.1	550	406.6	550	407.7
5.3	406.6	7.1	404.8	600	406.6	600	407.7
5.4	406.5	6.9	405.0	650	406.6	650	407.7
5.3	406.6	6.4	405.5	700	406.6	700	407.7
4.4	407.5	4.8	407.1	750	406.6	750	407.7
4.1	407.8	4.4	407.5	800	406.6	800	407.7
3.9	408.0	4.1	407.8	850	406.6	850	407.7
4.2	407.7	3.9	408.0	900	406.6	900	407.7
4.5	407.4	4.2	407.7	950	406.6	950	407.7
4.5	405.8	4.5	405.8	1000	406.6	1000	407.7
6.3	405.6	6.3	405.6	1050	406.6	1050	407.7
6.3	405.7	6.1	405.8	1100	406.6	1100	407.7
6.1	405.8	6.1	405.8	1150	406.6	1150	407.7
6.6	405.3	6.3	405.6	1200	406.6	1200	407.7
6.6	405.3	6.3	405.6	1250	406.6	1250	407.7

411.90



A. RUNWAY CROSS SECTIONS

H

H

PK 13

120+50

407.20

120+50

120+00

120+00

119+50

119+50

411.90

406.1  
58  
250

406.1  
58  
200

406.5  
54  
150

406.3  
56  
100

407.0  
49  
75

407.0  
43  
50

407.2  
47

407.5  
44  
50

408.1  
38  
75

408.4  
35  
100

408.3  
36  
150

408.3  
36  
200

407.9  
40  
250

406.2  
57  
275

407.6  
43  
200

407.5  
44  
225

407.1  
48  
275

406.7  
52  
400

406.5  
54  
450

406.4  
55  
500

407.1  
48  
225

407.0  
49  
275

406.8  
51  
400

406.9  
50  
450

406.3  
56  
500

405.9  
60  
300

405.9  
60  
250

405.9  
60  
200

406.2  
57  
150

406.1  
58  
100

406.6  
53  
75

406.6  
53  
50

406.9  
50

407.2  
47  
50

407.6  
43  
75

407.7  
42  
100

408.3  
36  
150

408.4  
35  
200

407.6  
49  
250

407.3  
46  
300

405.9  
60  
200

405.9  
59  
150

406.0  
58  
100

406.1  
55  
75

406.4  
54  
50

406.5  
52

406.7  
51  
50

406.8  
47  
75

407.2  
45  
100

407.4  
36  
150

408.3  
38  
200

408.1  
45  
250

407.4  
45  
250

405.6  
63  
225

405.5  
64  
200

405.6  
63  
250

407.0  
49  
200

407.0  
49  
225

406.9  
40  
275

406.9  
50  
400

406.6  
53  
450

406.3  
56  
500

411.90



A RUNWAY - CROSS SECTIONS

14

8

14

7.P 4.99 412.64 4.25 407.65

122700  
4.546

122700

122700

407.65

121750

407.40

121750

121700

121700

407.40

411.20

54 207.8	53 200	50 150	50 150	48 100	48 75	44 50	42.5	41 50	35 75	32 100	27 150	27 200	21 250	21 250	16 300
406.5	406.6	406.9	406.9	407.0	407.3	407.4	407.7	408.0	408.5	409.1	409.0	408.4	407.7	407.2	407.2
407.9	407.7	407.4	407.2	406.9	406.6	407.4	407.9	407.8	407.6	407.4	407.4	407.4	407.4	406.9	406.6
406.5	406.2	406.2	406.6	407.1	406.9	407.4	407.6	408.2	408.5	408.5	408.5	408.5	408.2	408.2	408.2

411.20



A. RUNWAY - CROSS SECTIONS

H.

R.

15

123+50

407.94

123+50

123+00

123+00

122+50

122+50

412.64

6.2 1399	5.6 100	5.6 78	5.5 80	4.7	4.8 80	4.6 75	4.6 100	3.5 150	3.1 200	3.0 250
406.4	407.0	407.0	407.1	407.9	407.8	408.0	408.6	409.1	409.5	409.6
					409.8	409.8	410.0	409.9	409.7	409.2
					2.8 300	2.8 325	2.6 375	2.7 400	2.9 450	2.4 500
					409.4	409.6	409.5	409.5	409.5	409.1
					3.2 300	3.0 325	3.1 375	3.1 400	3.1 450	3.5 500
	406.5	406.6	407.0	407.2	407.4	407.7	408.0	408.4	408.8	409.2
	6.1 1632	6.0 180	5.6 100	5.4 75	5.2 80	4.7	4.6 80	4.2 75	3.8 100	3.4 150
	406.7	406.8	407.0	407.2	407.4	407.7	408.0	408.4	408.8	409.2
	5.9 186.5	5.8 150	5.6 100	5.4 75	5.2 80	4.9	4.8 80	4.3 75	3.8 100	3.4 150
							408.8	408.7	408.7	409.1
							3.8 300	3.9 325	3.9 375	3.9 400
							408.8	408.7	409.7	409.1
							3.8 100	3.9 150	3.9 200	3.5 250
							408.8	408.7	409.7	409.1
							3.8 300	3.9 325	3.9 375	3.9 400
							408.8	408.7	409.7	409.1
							3.8 100	3.9 150	3.9 200	3.5 250

412.64



A. RUNWAY CROSS SECTIONS

125+50

407.94

124+89.16

407.64

124+89.16

124+50

407.44

124+50

124+00

124+00

412.64

41

407.5

51  
75

407.5

51  
30

407.9

4.7

407.9

4.7  
30

407.7

4.9  
75

408.2

4.4  
100

407.8

4.8  
150

408.9

3.7  
214.4

407.0

5.6  
75

dissector

407.3

5.3  
50

407.6

5.0

407.4

5.2  
50

407.5

5.1  
75

407.7

4.9  
100

408.2

4.4  
150

408.7

3.9  
200

408.8

3.8  
300

410.2

2.4

406.8

5.8  
37.3

dissector

407.0

5.6  
75

407.2

5.4  
50

407.4

6.2

407.5

5.1  
50

407.5

5.1  
75

408.0

4.6  
100

408.1

4.6  
150

408.7

3.9  
200

409.0

3.6  
250

409.5

3.1  
300

409.6

3.0  
325

410.3

2.3  
375

410.1

2.5  
400

410.2

2.4  
425

dissector

410.0

2.6  
300

410.0

2.6  
325

410.2

2.4  
375

410.2

2.4  
400

409.9

2.7  
450

409.5

3.1  
500

406.6

6.0  
116.6

406.8

5.8  
100

406.9

5.7  
75

407.1

5.5  
50

407.6

5.0

407.9

4.7  
50

408.0

4.6  
75

408.2

4.4  
100

408.7

3.9  
150

408.9

3.7  
200

409.6

3.0  
250

412.64



A. RUNWAY - CROSS SECTIONS

#17

128+50

408.8  
431  
438  
408.7  
48  
400  
407.8  
40  
400  
408.6

128+50

408.44

10 408.6  
230 43 408.3  
11 41 408.2  
4.3 4.3 408.3  
100 75 41 408.2  
42 408.4  
38 408.8  
50 36 409.0  
75 34 409.2  
932

128+10.84

408.64

43 408.3  
449 45 408.1  
100 46 408.0  
200 47 407.9  
45 45 408.1  
150 47 407.9  
100 47 407.9  
75 46 408.0  
50 40 408.6  
3.5 408.1  
50 3.5 408.1  
75

127+50

408.44

46 408.0  
449 52 407.4  
150 58 407.6  
100 49 407.7  
75 47 407.7  
50 42 408.4  
42 408.8  
38 408.8  
50 34 408.2  
75

127+00

408.34

49 407.7  
1072 48 407.8  
75 50 407.6  
50 43 408.3  
38 408.8  
50 47 408.9  
75

126+50

408.32

49 407.7  
38 49 407.9  
50 47 407.9  
50 432 408.32  
on Hub 44 408.5  
50 44 408.6  
50

126+00

408.14

47 407.9  
75 49 407.7  
50 45 408.1  
44 408.2  
80 44 408.2  
75 42 408.4  
100 41 408.5  
107.22

412.64

412.64



A. RUNWAY CROSS SECTIONS

#18

TP 7.05 416.52 2.17 409.47  
 130+00 409.44

130+00

129+50

129+50

129+00

129+00

412.64

409.34

408.74

409.8	409.6	410.0	410.1	409.1	409.4	409.8	410.1	409.2	409.3	409.5
2.8 200	3.0 150	2.6 100	2.5 75	2.8 50	2.2	2.8 50	2.5 75	3.4 100	2.8 150	3.1 200
410.4	410.1	409.8	409.6	409.4	409.6	409.8	409.3	409.3	409.3	409.6
2.2 300	2.5 150	2.8 100	3.0 75	3.1 50	2.2	2.8 50	2.3 75	3.3 100	3.0 150	3.1 200
409.5	409.7	409.6	409.4	409.4	409.4	409.3	409.8	409.3	409.3	409.6
3.1 200	3.2 150	3.0 100	3.2 75	3.3 50	2.2	3.3	2.8 50	2.3 75	3.3 100	3.0 150
409.4	409.1	409.1	409.0	409.1	409.3	409.8	409.1	409.3	409.3	409.6
2.2 200	2.5 150	2.5 100	2.6 75	2.8 50	3.3	2.8 50	2.3 75	3.3 100	3.0 150	3.1 200
408.9	409.6	409.7	409.7	409.5	409.7	409.0	409.1	409.3	409.3	409.5
2.7 200	3.0 150	3.2 100	3.3 75	3.1 50	3.3	3.6 50	2.5 75	3.3 100	3.0 150	3.1 200
409.6	409.3	409.6	409.2	409.3	409.0	409.0	409.1	409.3	409.3	409.5
3.0 300	3.3 150	4.0 100	3.4 75	3.3 50	3.6 250	3.6 50	2.5 75	3.3 100	3.0 150	3.1 200

412.64















A RUNWAY CROSS SECTIONS

136+50

411.99

136+50

136+00

411.89

136+00

135+50

411.09

135+50

419.59

Lt.

22

413.4	411.3	412.1	411.5	411.6	411.6	412.0	412.0	412.2	413.5	412.2	412.8
62	83	75	81	80	80	76	76	74	61	74	68
500	200	150	100	75	50	50	50	75	100	150	200
413.4	412.3	412.0	411.9	411.6	411.6	414.0	413.9	413.8	415.7	415.6	416.3
62	73	76	77	80	80	56	57	58	33	40	33
500	450	400	350	300	250	250	300	350	400	450	462
411.1	411.6	412.9	411.3	412.0	411.9	412.3	411.6	411.7	411.9	412.3	413.4
85	80	67	83	76	77	73	80	79	77	73	62
200	150	100	75	50	50	80	75	100	150	200	250
412.8	413.5	412.2	412.2	412.3	411.2	412.9	413.3	414.1	413.9		
68	61	74	74	73	84	67	63	55	57		
500	450	400	350	300	250	300	330	300	442.5		
411.7	411.4	410.8	411.1	410.9	411.3	411.1	411.2	411.4	411.4	411.6	412.2
79	82	88	85	87	83	85	84	84	82	80	74
250	200	150	100	75	50	50	75	100	150	200	200
413.1	412.7	412.3	412.0	411.6	412.0	412.4	412.4	413.8	413.0		
65	69	73	76	80	76	72	72	58	64		
500	450	400	350	300	250	300	350	400	419		

419.59



A. RUNWAY CROSS SECTIONS

Stations

138+00

416.74

138+00

T.P. 845 425.19 2.85 416.74

137+50

414.19

137+50

137+00

412.69

137+00

419.59

4

8

23

413.9	11.3 200	412.5	12.7 500	412.3	7.3 250	411.7	7.9 200	412.4	7.2 100	411.9	7.7 250
414.0	11.2 150	412.5	12.7 450	412.3	7.3 200	412.1	7.5 150	412.2	7.2 100	411.9	7.7 200
415.1	10.1 100	413.4	11.8 400	413.0	6.6 150	412.4	7.2 100	412.2	7.2 100	411.9	7.7 200
415.3	9.9 75	412.8	12.4 350	413.0	6.6 150	412.4	7.2 100	412.2	7.2 100	411.9	7.7 200
415.6	9.6 50	413.4	11.8 300	414.0	4.8 75	412.2	7.1 75	412.2	7.1 75	411.9	7.7 200
416.74	8.45	413.1	12.1 250	414.2	4.6 50	412.6	6.9	412.6	7.0 300	411.9	7.7 200
416.2	9.0 50	417.1	8.1 250	414.9	4.7 50	417.0	2.6 200	413.1	6.5 30	414.5	5.1 250
416.5	8.7 75	414.2	7.0 300	414.9	4.7 75	414.1	6.8 75	413.4	6.8 75	414.9	4.7 200
416.2	9.0 100	419.4	5.8 350	415.1	4.5 100	419.0	0.6 200	413.6	6.0 100	415.4	4.2 350
416.7	8.5 150	419.4	5.8 300	414.6	4.5 150	419.3	0.3 150	413.4	5.2 50	416.4	3.2 200
416.7	8.5 200	419.4	5.8 250	414.9	4.7 200	419.6	0.0 500	414.9	4.7 200	417.2	2.4 150
416.7	8.5 200	419.6	5.6 500	415.9	3.7 250	420.6	1.0 512.8	414.9	4.7 200	414.2	1.6 150

425.19

419.59



A. RUNWAY CROSS SECTIONS

Stations

139+50 419.69

139+50

139+00 419.09

139+00

138+64.28 418.19

138+64.28

425.19

21

2

Rt. 24

415.8	417.7	416.6	416.9	417.3	417.9	419.7	420.5	421.2	421.0	421.8	420.5	420.7	421.2	420.9	420.7	419.9	420.7	419.9	420.5					
67 200	67 200	67 200	57 100	54 75	58 50	55	55 50	54 75	58 100	54 75	57 100	47 250	47 250	47 250	43 400	47 450	45 450	45 450	45 450					
417.4	418.0	418.8	419.2	419.1	419.1	419.2	419.4	419.2	419.5	418.8	419.1	420.7	420.8	421.2	420.9	420.7	419.9	418.8	419.1					
78 200	78 150	64 100	60 75	61 50	61	60 75	58 75	60 100	67 150	64 200	61 250	41 300	41 350	40 400	43 450	45 500	53 550	53 550	53 550					
415.1	414.1	415.7	415.7	416.5	418.1	420.7	420.8	421.2	420.9	420.7	419.9	416.6	414.1	414.2	415.7	415.5	416.3	419.8	420.7	420.2				
101 500	111 450	25 400	24 350	37 300	71 250	41 300	41 350	40 400	43 450	45 500	53 550	86 250	71 200	77 150	75 100	72 75	72 50	70	61 50	68 75	75 100	75 150	72 200	69 250
416.6	418.1	417.5	417.7	418.0	418.0	419.2	419.1	418.4	417.7	417.7	418.0	416.6	414.1	414.2	415.7	415.5	416.3	419.8	420.7	420.2				
86 250	71 200	77 150	75 100	72 75	72 50	70	61 50	68 75	75 100	75 150	72 200	69 250	111 500	110 450	95 400	97 350	89 300	54 200	45 250	50 300	50 350	51 400	53 450	66 500
414.1	414.2	415.7	415.5	416.3	419.8	420.7	420.2	420.2	420.1	419.4	418.6	414.1	414.2	415.7	415.5	416.3	419.8	420.7	420.2					
111 500	110 450	95 400	97 350	89 300	54 200	45 250	50 300	50 350	51 400	53 450	66 500	111 500	110 450	95 400	97 350	89 300	54 200	45 250	50 300	50 350	51 400	53 450	66 500	

425.19



A Runway Cross Sections

11.

8

ft.

25

T.P. 7.51 <sup>Corrected</sup> 424.18 8.54 416.67  
 424.165  
 on 4.6  
 101. Runway No 3  
 FB 170-72

141+00 418.49

141+00

140+50 419.59

140+50

140+00 420.29

140+00

425.19

FB 170  
 p-72  
 424.165  
 on 4.6  
 101. Runway No 3  
 FB 170-72

421.1	420.4	418.9	418.3	418.2	418.5	418.7	418.7	419.3	419.1	419.2
4.1 200	4.8 150	6.3 100	6.9 75	7.0 50	6.7	6.5 50	6.5 75	5.9 100	6.1 150	6.0 200
419.0	419.2	419.7	420.4	420.8	421.2	419.2	419.6	419.8		
6.2 300	6.0 150	5.5 100	4.8 75	4.4 50	4.0 250	6.0 250	5.6 300	5.4 368.4		
420.4	419.9	419.2	419.1	419.0	419.6		419.7	419.9		
4.8 200	5.3 150	6.1 100	6.1 75	6.2 50	5.6		5.5 50	5.3 75	5.5 100	4.9 150
418.6	418.2	418.7	419.5	420.2	420.4		420.5	420.3	420.4	420.3
6.6 500	7.0 40	6.5 100	5.7 50	5.0 200	4.8 250		4.7 200	4.9 250	4.8 300	4.9 350
419.5	419.5	420.0	419.9	419.8	420.8	420.4	420.1	420.0	419.9	420.6
5.7 200	5.7 150	5.8 100	5.8 75	5.4 50	4.9	4.8 50	5.1 75	5.2 100	5.3 150	4.6 200
417.8	417.2	418.9	419.1	419.5	418.7	420.9	421.0	421.9	420.8	
7.4 500	8.0 450	6.3 400	6.1 350	5.7 300	6.5 250	4.3 300	4.2 350	3.3 400	4.4 450.3	

425.19





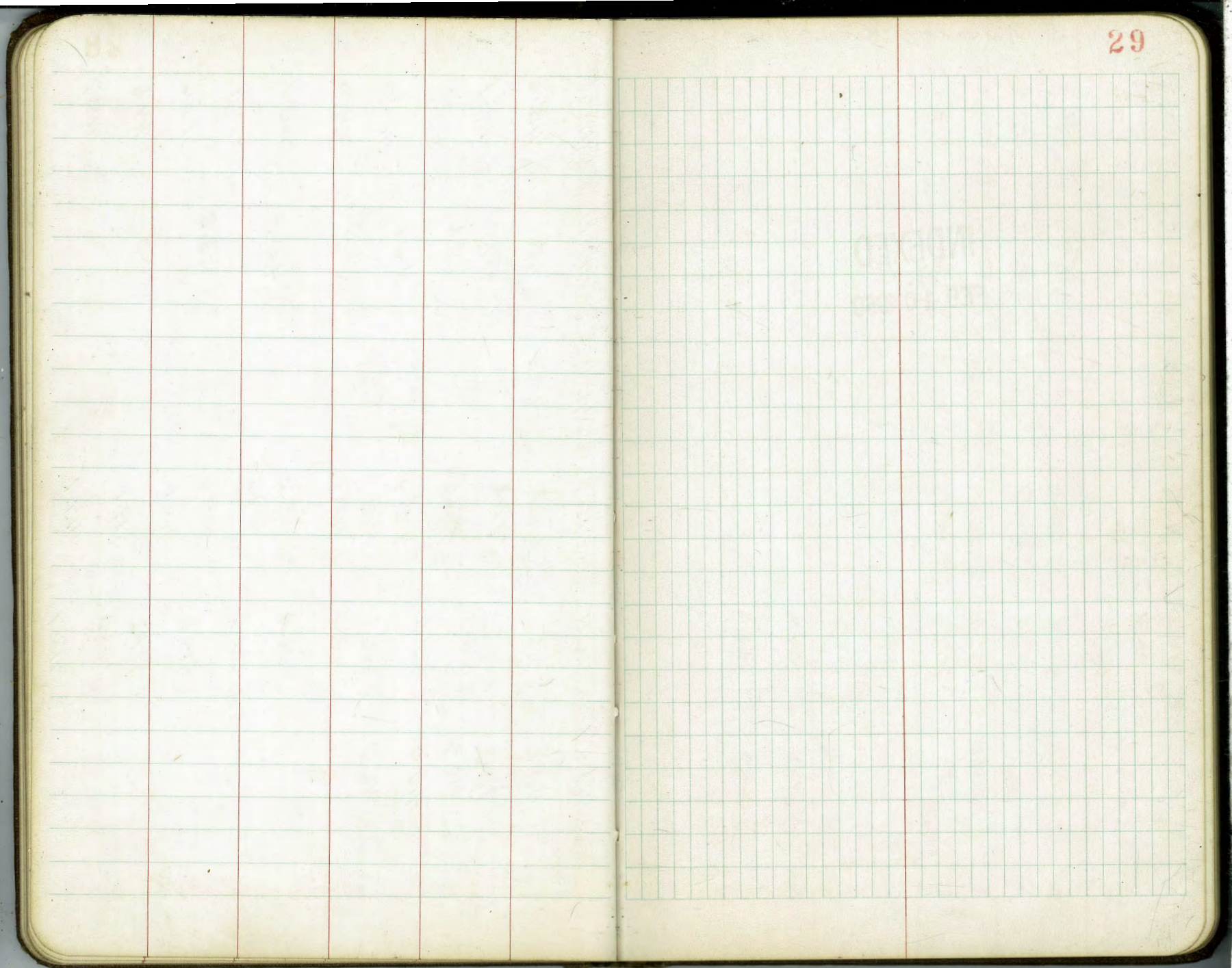






















B- RUNWAY - CROSS SECTIONS

H.

Station

10+00

10+00

10+00

10+00

9+50

9+50

9+50

409.35

405.3	405.1	404.7	404.8	404.7	407.3
4.1	4.3	4.7	4.6	4.7	3.1
500	450	400	350	300	200
404.8	404.6	404.3	404.1	403.9	406.2
4.6	4.8	5.1	5.3	5.5	3.2
250	200	150	100	75	50
404.4	404.5	404.0	403.9	403.7	405.6
5.0	4.9	5.4	5.5	5.7	3.8
250	200	150	100	75	50
405.1	404.8	404.5	404.4	404.3	405.2
4.3	4.6	4.9	5.0	5.1	4.2
500	450	400	350	300	200
404.7	404.4	403.9	403.7	403.2	406.2
4.7	4.3	4.0	3.3	3.0	3.2
600	650	700	750	800	850
403.6	403.8	404.0	403.9	404.4	407.2
5.8	5.6	5.4	5.5	5.0	4.6
300	350	400	450	500	550
404.7	405.1	405.4	406.1	406.4	407.6
4.7	4.3	4.0	3.3	3.0	2.8
600	650	700	750	800	850
403.6	404.2	404.5	404.6	404.9	405.0
6.5	5.2	4.9	4.8	4.5	4.1
300	350	400	450	500	550
402.8	403.0	402.9	402.6	403.4	404.6
6.6	6.4	6.5	6.8	6.0	5.7
50	75	100	150	200	250
402.7	402.7	402.6	403.0	402.9	403.7
6.7	6.7	6.8	6.4	6.5	5.9
50	75	100	150	200	250
403.6	403.8	404.0	403.9	404.4	404.6
5.8	5.6	5.4	5.5	5.0	4.6
300	350	400	450	500	550
403.6	404.2	404.5	404.6	404.9	405.0
6.5	5.2	4.9	4.8	4.5	4.1
300	350	400	450	500	550
402.8	403.0	402.9	402.6	403.4	404.6
6.6	6.4	6.5	6.8	6.0	5.7
50	75	100	150	200	250
402.7	402.7	402.6	403.0	402.9	403.7
6.7	6.7	6.8	6.4	6.5	5.9
50	75	100	150	200	250
403.6	403.8	404.0	403.9	404.4	404.6
5.8	5.6	5.4	5.5	5.0	4.6
300	350	400	450	500	550
404.7	405.1	405.4	406.1	406.4	407.6
4.7	4.3	4.0	3.3	3.0	2.8
600	650	700	750	800	850

409.35







B. RUNWAY - CROSS SECTIONS.

Station	
13+00	403.69
13+00	
12+50	403.52
12+50	
12+00	
12+00	403.32
11+50	403.52

40842

405.6	2.8	200
404.8	3.6	150
404.0	4.4	100
403.8	4.6	75
403.9	4.5	50
403.69	4.73	50
403.7	4.7	50
403.6	4.8	75
403.7	4.7	100
403.7	4.7	150
404.2	4.7	200
405.7	3.4	150
404.6	3.8	250
404.4	4.0	300
404.5	3.9	350
404.7	3.7	400
404.8	3.6	450
405.6	2.8	250
405.7	2.7	200
405.8	3.4	150
404.3	4.1	100
404.1	4.3	75
403.9	4.5	50
403.5	4.9	49
403.5	4.9	50
403.8	4.6	200
403.9	4.5	250
404.1	4.3	300
404.2	4.2	350
404.7	3.7	400
405.2	3.2	450
405.4	3.0	500
405.0	3.4	450
405.1	3.3	400
405.3	3.1	350
405.2	3.2	300
405.5	2.9	250
403.4	5.0	250
404.3	4.1	300
403.9	4.5	350
404.3	4.1	400
404.9	3.5	450
405.2	3.2	460
405.8	2.6	200
405.6	2.8	150
404.4	4.0	100
404.3	4.1	75
404.1	4.3	50
403.5	5.1	51
403.5	4.9	50
403.3	4.1	75
403.3	4.9	100
403.5	4.7	150
403.7	4.7	200
403.5	4.9	200
405.2	3.2	200
405.2	3.5	150
404.6	3.8	100
404.4	4.0	75
403.9	4.5	50
403.5	4.9	50
403.2	5.2	50
403.1	5.3	75
403.2	5.2	100
403.2	5.2	150
403.3	5.1	200

40842







B. RUNWAY CROSS SECTIONS

Station

16+50

16+00

16+00

15+50

15+50

15+00

15+00

111.05

406.4	405.2	405.1	404.9	405.0	405.1	405.3	406.0	406.2	406.2	405.7	406.7	406.5
1.6	1.8	1.5	1.1	1.0	1.5	1.7	1.0	1.3	1.8	1.5	1.3	1.5
250	200	150	100	75	50	50	30	25	100	250	200	250
406.4	407.0	407.3	407.1	406.5								
2.6	3.2	1.7	1.3	1.5								
300	450	400	350	300								
406.3	405.6	404.9	404.9	404.9	405.0	405.3	406.0	406.0	406.0	406.0	406.2	406.1
1.7	1.4	1.1	1.1	1.1	1.0	1.7	1.0	1.0	1.0	1.0	1.8	1.9
450	300	150	100	75	50	50	50	75	100	150	200	250
408.0	407.4	407.1	406.9	406.3								
3.0	3.6	3.9	4.1	4.7								
500	450	400	350	300								
406.2	405.3	404.8	404.7	404.7	404.7	404.7	405.9	406.4	406.2	405.9	406.1	406.2
1.8	1.7	1.3	1.3	1.3	1.3	1.3	1.5	1.6	1.8	1.1	1.9	1.8
250	200	150	100	75	50	50	50	75	100	150	200	250
407.7	407.2	406.9	406.7	406.4								
3.3	3.8	4.1	4.3	4.6								
500	450	400	350	300								
406.2	406.3	405.7	404.4	404.8	404.9	404.3	404.8	405.0	406.2	405.9	405.5	405.8
1.8	1.7	1.3	1.6	1.6	1.1	1.7	1.6	1.0	1.8	1.1	1.5	1.3
250	200	150	100	75	50	75	50	75	100	150	200	250

111.05











B. RUNWAY - CROSS SECTIONS

Stations

22+50

check of Hub = 26+50 FB 1750-71

22+00

21+50

21+00

20+33.16

20+33.16

20+00

408.34 = 0.02 Error  
408.36

504

41340

408.0	407.3	407.0	407.3	407.5	407.9	408.0	407.6	407.6
54 244	61 150	64 100	61 75	59 50	55	55	58 50	58 75
407.9	407.5	406.9	406.5	406.6	406.8	407.1	407.1	407.1
55 250	59 200	65 150	69 100	68 75	66 50	63	62 50	63 75
409.8	409.1	408.6	408.6	408.1				
36 500	4.3 450	4.8 400	4.8 350	5.3 300				
408.4	407.7	407.9	407.8	408.3	408.36	408.5	408.4	408.5
50 75	57 72	53 53	55 55	51 300	54 46	51 59	54 75	54 75
408.4	407.9	408.36	408.0	407.9	408.36	408.5	408.4	408.5
50 75	50 50	50 46	50 54	50 55	50 46	50 59	50 75	50 75
408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6
4.8 107.2								

41340

# 408.6 39



B. RUNWAY - CROSS SECTIONS

2A + 50

2A + 50

2A + 00

2A + 00

23 + 60.84

23 + 60.84

23 + 00

413.40

H.

409.6	409.7	410.2	410.6	411.0	411.3	410.6	410.6	410.4	410.2
3.8 166	3.7 100	3.2 75	2.8 50	2.4	2.1 50	2.8 75	2.8 100	3.0 150	3.2 200
409.4	409.9	410.3	410.3	410.1	410.0	409.9	409.7	409.8	409.8
4.0 33.9	3.5 75	3.1 50	3.1	3.3 50	3.4 75	3.5 100	3.5 150	3.6 200	3.6 250
				409.4		409.5		409.8	
				4.0 250		3.9 300		3.6 344.9	
	409.2	409.2	409.7	409.7	409.8	409.6	409.6	409.3	
	4.2 75	4.2 50	3.7	3.7 50	3.6 75	3.8 100	3.6 150	4.1 200	
	409.7	409.9	409.0	409.0	409.9	409.9	409.1	409.8	
	4.7 75	4.5 50	4.4	4.4 50	4.5 75	4.5 100	4.3 150	4.6 214.4	

413.40

410.3  
3.1  
250

410.2  
3.2  
300

410.4  
3.0  
325

410.7  
2.7  
375

410.5  
2.9  
400

410.8  
3.4  
450

410.5  
3.9  
500







B. RUNWAY CROSS SECTIONS

4.

5.

At. 42

28+00

27+50

27+50

TR 9.17 420.59 593 411.42 27+00 <sup>on 4 stub</sup>

27+00

27+00

26+50

417.35

411.9 8.7 250  
 412.2 8.4 300  
 412.4 8.2 150  
 412.4 8.2 100  
 412.5 8.1 75  
 412.6 8.0 50  
 412.6 8.0  
 412.9 7.7 50  
 413.4 7.2 75  
 413.0 7.6 100  
 412.5 8.1 150  
 411.9 8.7 200  
 412.3 8.5 250

411.3 9.3 300  
 412.2 8.4 325  
 410.6 10.0 375  
 410.1 10.5 400  
 409.4 11.2 450  
 409.6 11.0 500

411.5 9.1 250  
 411.5 9.1 200  
 411.6 9.0 150  
 412.5 8.1 100  
 412.0 8.6 75  
 411.9 8.7 50  
 411.8 8.8  
 412.3 8.3 50  
 412.5 8.1 75  
 413.1 7.5 100  
 412.7 7.9 150  
 412.8 7.8 200  
 411.5 9.1 250

Changed by Carlson

420.59

411.4 6.0 300  
 410.9 6.5 325  
 410.4 7.0 375  
 410.6 6.8 400  
 410.0 7.4 450  
 409.7 7.7 500

411.4 6.0 275  
 411.4 6.0 200  
 411.2 6.2 150  
 411.3 6.1 100  
 411.2 6.2 75  
 411.4 6.0 50  
 411.5 6.9  
 411.6 5.8 50  
 411.7 5.7 75  
 412.2 5.2 100  
 412.1 5.3 150  
 411.6 5.8 200  
 411.4 6.0 250

410.9 6.5 300  
 411.5 5.9 325  
 410.7 6.7 375  
 410.5 6.9 400  
 410.2 7.2 450  
 410.2 7.2 500

417.35







B. RUNWAY-CROSS SECTIONS

Stations

31+50

31+00

31+00

30+50

30+50

30+00

30+00

420.59

414.7	414.4	415.1	415.6	415.7	416.1	415.6	413.9	414.3	413.3	413.0	412.4	412.4
59 250	60 200	55 150	58 100	49 75	45 50	50	67 50	63 75	73 100	76 150	82 200	82 250
	413.0	412.9	413.2	413.5	412.4	412.0	411.9	412.9	412.2	412.0	412.0	412.0
	76 419.6	77 400	74 350	71 300	82 300	86 325	87 375	77 400	84 450	86 500		
414.5	415.0	415.4	416.1	416.9	415.0	414.2	413.3	413.2	413.2	412.8	412.3	412.4
61 250	56 200	52 150	45 100	37 75	56 50	64	73 50	74 75	79 100	78 150	83 200	82 250
		412.8	413.0	414.4	412.0	411.6	411.6	411.9	411.9	411.6	411.6	411.6
		78 396.7	76 350	62 300	86 300	90 325	90 375	87 400	87 450	90 500		
414.1	415.2	415.2	416.4	415.7	414.7	413.8	413.1	412.8	412.6	412.5	412.1	411.9
65 250	54 200	54 150	42 100	49 75	59 50	68	75 50	78 75	80 100	81 150	85 200	87 250
		414.7	413.1	413.6	412.0	412.5	411.4	411.3	411.8	411.5	411.8	411.5
		59 379	70 350	70 300	86 300	81 325	82 375	88 400	88 450	91 500		
414.3	413.8	414.8	415.4	415.3	414.5	413.9	413.1	412.8	412.8	411.9	411.8	411.8
63 250	68 200	58 150	52 100	53 75	61 50	67	73 50	78 75	78 100	83 150	87 200	88 250

420.59



B. RUNWAY CROSS SECTIONS

Sta.

33+00

33+40

32+50

32+50

32+00

32+00

31+50

420.59

417.3	419.3	419.1	416.6	418.3	417.5	414.0	413.3	413.8	413.2	413.3	414.8
1.3	1.3	1.5	1.0	1.3	1.1	1.6	1.3	1.4	1.4	1.3	1.8
528	150	100	328	300	300	325	375	400	150	550	
417.3	415.8	416.9	415.4	415.6	417.0	416.4	414.9	414.7	413.9	413.7	413.4
1.8	1.7	1.7	1.2	1.5	1.6	1.2	1.7	1.9	1.7	1.9	1.2
100	100	100	100	75	50	42	50	75	100	150	200
417.2	417.7	417.0	417.0	415.5	413.9	412.7	412.7	414.9	413.2	413.2	414.0
2.4	2.9	2.6	3.7	5.1	6.7	7.9	7.9	5.7	7.4	6.6	6.5
485	750	400	350	300	350	300	325	375	400	450	500
414.8	415.0	414.9	415.5	415.7	415.1	414.5	413.9	413.7	413.3	413.1	413.4
5.8	5.1	5.7	7.5	4.9	5.5	6.1	6.7	5.9	7.3	7.5	7.2
300	150	100	75	50	55	50	75	100	50	200	250
416.4	416.0	415.3	414.3	414.5	412.6	414.0	412.8	412.9	413.1	413.5	
4.2	4.6	5.3	6.3	6.1	8.0	6.6	7.8	7.7	7.5	7.1	
466.2	450	400	370	300	300	325	375	400	450	500	
413.8	415.0	415.2	415.2	414.9	414.5	413.6	413.5	413.0	412.8	412.7	
6.8	5.6	5.4	5.4	5.7	6.1	7.0	7.1	7.6	7.8	7.9	
250	200	150	75	50	50	75	100	150	200	250	
413.9	413.8	413.5	413.7	412.4	412.5	412.5	413.1	413.1	413.3		
6.7	6.8	7.1	6.9	8.2	8.1	8.1	7.5	7.5	7.3	7.3	
442.9	400	350	300	300	325	375	400	450	500		

420.59



B. RUNWAY - CROSS SECTIONS

Station

34+64.28

34+64.28

34+14.28

34+14.28 - NW 1/4 Line Taxway

33+50

33+50

5.75

423.05

3.25

417.30 - FB. 1750 R. 2  
417.34 34+00 L. 250

420.59

416.8	416.8	416.3	416.6	417.1	416.9	417.5	416.4	414.7	414.8	414.9	414.2	414.6
42	62	67	64	59	61	55	66	53	52	81	58	84
385	550	500	450	400	350	300	300	325	375	400	450	500
418.2	418.7	418.5	418.5	418.4	418.2	418.5	417.9	416.6	416.5	416.2	417.0	415.3
4.8	4.3	4.5	4.5	4.6	4.8	4.5	5.1	6.4	6.5	6.8	6.0	7.7
250	200	150	100	75	50	45	50	75	100	150	200	250
418.6	418.1	418.1	418.5	419.1	419.1	418.7	414.8	415.5	414.0	413.9	414.0	414.2
44	49	49	4.5	3.9	3.9	4.3	82	7.5	9.0	9.1	9.0	8.8
34	50	500	400	400	350	300	300	325	375	400	450	500
418.7	418.2	418.3	418.0	418.0	419.3	417.3	416.0	417.0	415.3	414.8	414.5	414.2
4.3	4.8	4.7	5.0	5.0	3.7	5.7	7.0	6.0	7.7	8.2	8.5	8.8
230	200	150	100	75	50	50	50	75	100	150	200	250
419.2	419.2	419.4	419.1	418.5	418.1	417.4	413.6	413.7	413.0	413.2	413.6	413.7
3.8	3.8	3.6	3.3	4.5	4.9	5.6	9.4	9.3	10.0	9.8	9.4	9.3
390	500	450	400	350	300	250	300	325	375	400	450	500
417.1	417.8	417.4	416.6	416.3	416.7	415.9	415.7	415.1	414.0	414.1	413.3	
5.9	5.2	5.6	6.9	6.7	6.3	7.1	7.3	7.9	9.0	8.9	9.7	
300	150	150	75	50	42.3.05	50	75	100	150	200	250	



B. RUNWAY - CROSS SECTIONS

Stations

H

H

H 47

35+64.29

412.7  
163  
450

413.2  
98  
400

413.7  
93  
350

414.0  
90  
300

413.6  
99  
350

412.8  
102  
500

414.7  
83  
150

414.3  
87  
500

35+64.28

414.5  
85  
200

416.5  
65  
150

418.7  
43  
100

419.1  
39  
75

418.1  
39  
80

418.9  
41  
41

418.6  
54  
50

418.6  
44  
75

418.6  
44  
100

418.3  
47  
150

418.2  
48  
200

35+64.28

417.9  
51  
6128

417.5  
55  
600

415.5  
75  
550

35+14.28

414.7  
83  
500

414.5  
85  
450

414.8  
82  
400

414.8  
82  
350

414.9  
81  
300

416.3  
67  
300

415.9  
71  
325

415.8  
72  
375

415.0  
80  
400

414.6  
84  
450

415.1  
79  
500

35+14.28

416.0  
70  
250

417.5  
55  
200

418.6  
44  
150

418.6  
44  
100

418.6  
44  
75

418.8  
42  
50

418.4  
46  
50

418.2  
48  
50

418.4  
46  
75

417.5  
55  
100

417.8  
52  
150

416.9  
61  
200

416.2  
68  
250

35+14.28

416.0  
70  
250

417.5  
55  
200

418.6  
44  
150

418.6  
44  
100

418.6  
44  
75

418.8  
42  
50

418.4  
46  
50

418.2  
48  
50

418.4  
46  
75

417.5  
55  
100

417.8  
52  
150

416.9  
61  
200

416.2  
68  
250

423.05

423.05



B. RUNWAY - CROSS SECTIONS

Stations

37+00

36+64.28

36+64.28

36+64.28

36+14.28

36+14.28

36+14.28

423.05

411.6	411.4	410.7	411.5	410.9	412.4	413.3	415.0	416.2	417.3	418.3	418.6	418.5
11.8 250	11.6 200	12.9 150	11.5 100	13.1 75	10.6 50	8.7 25	8.8 50	6.8 75	5.7 100	4.7 150	4.4 200	4.5 250
	413.9	412.9	411.7	411.0								
	9.1 682.7	10.1 650	11.3 600	12.0 550								
410.2	409.9	409.7	410.4	411.2	411.2	411.2	411.2	411.7	417.4	418.0	417.2	414.9
12.8 500	13.1 450	13.3 400	12.6 350	11.8 300	4.8 300	5.3 325	5.6 375	5.0 400	5.8 450	8.1 500		
411.9	411.1	410.8	412.0	413.2	413.7	415.8	417.6	418.0	418.4	418.9	417.9	418.0
11.1 250	11.9 200	12.2 150	11.0 100	9.8 75	9.3 50	7.2 25	5.4 50	5.0 75	4.6 100	4.1 150	5.1 200	5.0 250
	415.0		412.8	411.7								
	8.0 657.4		10.2 600	11.8 550								
410.7	410.5	410.9	413.0	413.2	418.0	418.4	416.9	416.5	415.4	415.0		
12.3 500	12.5 450	12.1 400	10.0 350	9.8 300	5.0 300	4.6 325	6.1 375	6.5 400	7.1 450	8.0 500		
412.4	412.4	413.1	415.3	416.6	417.6	418.6	418.3	418.2	419.0	418.6	418.1	418.3
10.6 250	10.6 200	9.9 150	7.7 100	6.4 75	5.4 50	4.4 25	4.7 50	4.5 75	4.0 100	4.4 150	4.2 200	4.7 250

423.05



S. RUNWAY CROSS SECTIONS

38+00

410.7  
8.6  
500

409.2  
9.4  
450

408.8  
9.8  
400

408.4  
10.2  
350

408.3  
10.3  
300

38+00

407.7  
10.9  
250

407.3  
11.3  
200

408.4  
10.2  
150

410.4  
8.2  
100

410.6  
8.4  
75

410.0  
8.6  
50

TR 5.22 418.58 969 413.36

418.58

38+00

417.6  
5.4  
300

417.9  
5.1  
325

417.1  
4.9  
375

416.8  
6.2  
400

418.0  
5.0  
450

416.3  
6.7  
500

38+00

410.9  
14.1  
50

411.3  
11.7  
75

411.5  
11.5  
100

411.9  
11.1  
150

414.3  
8.7  
200

416.9  
6.1  
250

417.3  
5.7  
300

37+50

410.2  
12.8  
300

409.4  
13.6  
450

409.2  
13.8  
400

408.5  
14.5  
350

408.5  
14.5  
300

418.3  
4.7  
300

417.8  
5.2  
325

416.9  
6.1  
375

416.8  
6.2  
400

416.9  
6.1  
450

416.3  
6.7  
500

37+50

409.6  
12.4  
250

409.6  
13.4  
300

410.3  
12.7  
350

409.5  
12.5  
400

409.8  
12.2  
450

410.8  
12.2  
50

411.4  
11.6  
75

412.2  
10.8  
100

413.6  
9.4  
150

414.4  
8.6  
200

416.5  
6.5  
250

417.8  
5.2  
300

418.2  
4.8  
350

37+00

410.2  
12.8  
500

410.0  
13.0  
450

409.5  
13.5  
400

409.7  
13.3  
350

410.1  
12.9  
300

418.0  
5.0  
300

417.5  
5.5  
325

418.0  
5.0  
375

416.9  
6.1  
400

416.5  
6.5  
450

416.5  
6.5  
500

423.05

423.25



B. RUNWAY CROSS SECTIONS

40+00	409.3	9.3 250	409.2	9.4 300	409.8	9.8 200	407.6	11.0 150	406.0	12.6 100	406.3	12.3 75	406.9	17 50	406.2	12.4	405.4	13.2 70	406.8	11.8 75	407.4	11.2 100	408.3	10.3 170	409.9	8.8 200	409.0	9.6 250
39+50	409.8	9.4 300	406.9	9.3 450	409.6	9.8 400	409.6	9.0 350	410.0	8.6 300	409.8	8.8 250	409.9	8.7 300	409.5	9.1 325	410.5	8.1 375	411.8	6.8 400	414.7	3.9 450	416.7	1.9 500				
39+50	409.8	9.8 200	406.1	11.7 150	409.6	12.5 100	409.6	12.6 75	406.0	12.6 50	406.9	11.7	407.9	10.7 50	409.3	9.3 75	410.4	8.2 100	410.8	7.8 150	410.7	7.9 200	409.5	9.1 250				
39+00	410.1	8.5 500	408.7	9.9 400	409.4	9.2 400	409.8	8.8 350	410.6	8.0 300	411.8	6.8 300	412.1	6.5 325	414.9	3.7 375	415.7	2.9 400	416.7	1.9 450	417.4	1.2 500						
39+00	408.9	9.7 250	408.2	10.4 300	407.2	11.4 150	407.2	11.4 100	407.8	10.8 75	408.6	10.0 50	409.8	8.8	411.2	7.1 50	411.6	7.0 75	412.0	6.4 100	412.8	5.8 150	411.7	6.9 200				
38+50	409.8	8.8 500	410.5	8.1 410	410.1	8.5 400	409.0	9.6 350	409.0	9.6 300	407.8	10.8 250	415.4	3.2 250	415.6	3.0 300	416.2	2.4 325	417.3	1.3 375	417.4	1.2 400	417.4	1.2 450	417.0	1.6 500		
38+50	407.3	11.3 200	407.4	11.2 150	409.9	8.7 100	410.0	8.6 75	410.5	8.1 50	410.7	7.9	410.9	7.7 50	411.3	7.3 75	411.8	6.8 100	413.1	5.5 150	415.1	3.5 200						

418.58

418.58











B. RUNWAY - CROSS SECTIONS

Stations

45+00

44+50

44+00

44+00

44+00

43+50

43+50

416.87

412.1	411.6	412.8	411.2	410.4	410.1	411.9	411.1	410.6	410.6	412.0	411.5	411.0	410.4
48 250	5.3 200	4.9 150	6.7 100	6.5 75	6.8 50	50	5.8 50	6.3 75	4.3 100	5.4 100	5.9 200	6.5 250	
413.7	414.4	412.4	412.1	412.2	411.6	409.7	409.9	409.0	408.7	406.5	410.4		
3.2 300	2.5 450	4.5 400	4.8 350	4.7 300	5.3 300	7.2 325	8.0 375	7.9 400	8.2 400	10.4 500			
411.8	411.9	410.6	411.1	410.5	410.6	410.7	410.3	410.3	410.1	409.9	411.2	410.7	
51 250	50 200	6.3 150	5.8 100	6.4 75	6.3 50	6.2	6.6 50	6.6 75	6.8 100	7.0 150	5.7 200	6.2 250	
413.1	412.7	413.0	411.5	411.4	409.2	409.2	409.2	409.8	409.3	406.6	404.8		
38 300	4.2 450	3.9 400	5.4 350	5.5 300	7.7 300	7.7 325	8.1 375	8.6 400	10.3 450	12.1 500			
411.9	411.9	410.8	410.5	409.9	409.9	409.2	409.7	410.2	409.7	409.9	410.4	409.8	
50 250	5.0 200	6.1 150	6.4 100	7.0 75	7.0 50	7.7	7.2 50	6.7 75	7.2 100	7.0 150	6.5 200	7.1 250	
415.1	414.3	412.6	412.0	412.3	409.9	409.9	409.9	407.4	405.7	404.3	403.8		
1.8 300	2.6 450	4.3 400	4.9 350	4.6 300	8.0 300	8.0 325	8.5 375	11.2 400	13.6 450	18.1 500			
411.9	410.4	410.7	410.8	410.4	410.2	409.7	409.5	409.3	409.1	409.5	409.2	409.3	
50 250	6.5 200	6.2 150	6.1 100	6.5 75	6.7 50	7.2	8.4 50	7.6 75	7.8 100	7.4 150	7.7 200	7.6 250	

416.87



B. RUNWAY. CROSS SECTIONS

Stations

chk E Hub 44+00 P. 52 7.74 <sup>001</sup> 409.12  
409.13

46+00

46+00

45+50

45+50

45+00

416.87

4

5

54

414.4	412.7	413.2	412.8	412.9	414.4	411.1	410.2	409.5	408.5	408.4	407.1
2.5 500	4.2 150	3.7 100	4.1 350	4.0 300	2.5 500	5.8 300	6.7 325	7.4 375	8.4 400	8.5 450	9.8 500
413.4	412.6	412.1	411.5	411.6	412.5	410.6	411.2	412.2	411.6	410.8	410.7
2.5 500	2.8 300	4.8 150	5.4 100	5.3 75	4.4 50	6.3 50	5.7 50	4.7 75	5.3 100	6.1 150	6.2 200
415.0	414.5	414.6	412.9	414.3	415.0	410.2	410.0	408.0	408.2	407.9	408.9
1.9 500	2.4 150	2.3 400	4.0 350	2.6 300	1.9 500	6.7 300	6.9 325	8.9 375	8.7 400	9.0 450	8.0 500
414.4	413.9	412.8	412.5	411.5	411.8	411.2	412.4	412.0	412.0	411.6	410.7
2.5 500	3.0 300	4.1 150	4.4 100	5.4 75	5.1 50	5.7	4.5 50	4.9 75	4.9 100	4.3 150	6.2 200
416.3	415.1	414.4	413.5	414.0	414.0	409.5	409.5	409.5	408.6	407.3	408.0
0.6 500	1.8 150	2.5 100	3.4 350	2.9 300	2.9 500	7.4 300	7.4 325	7.9 375	8.3 400	9.6 450	8.9 500

416.87











Roberts

Garber

Moore

Clark

2-8-50

wa. # 31639

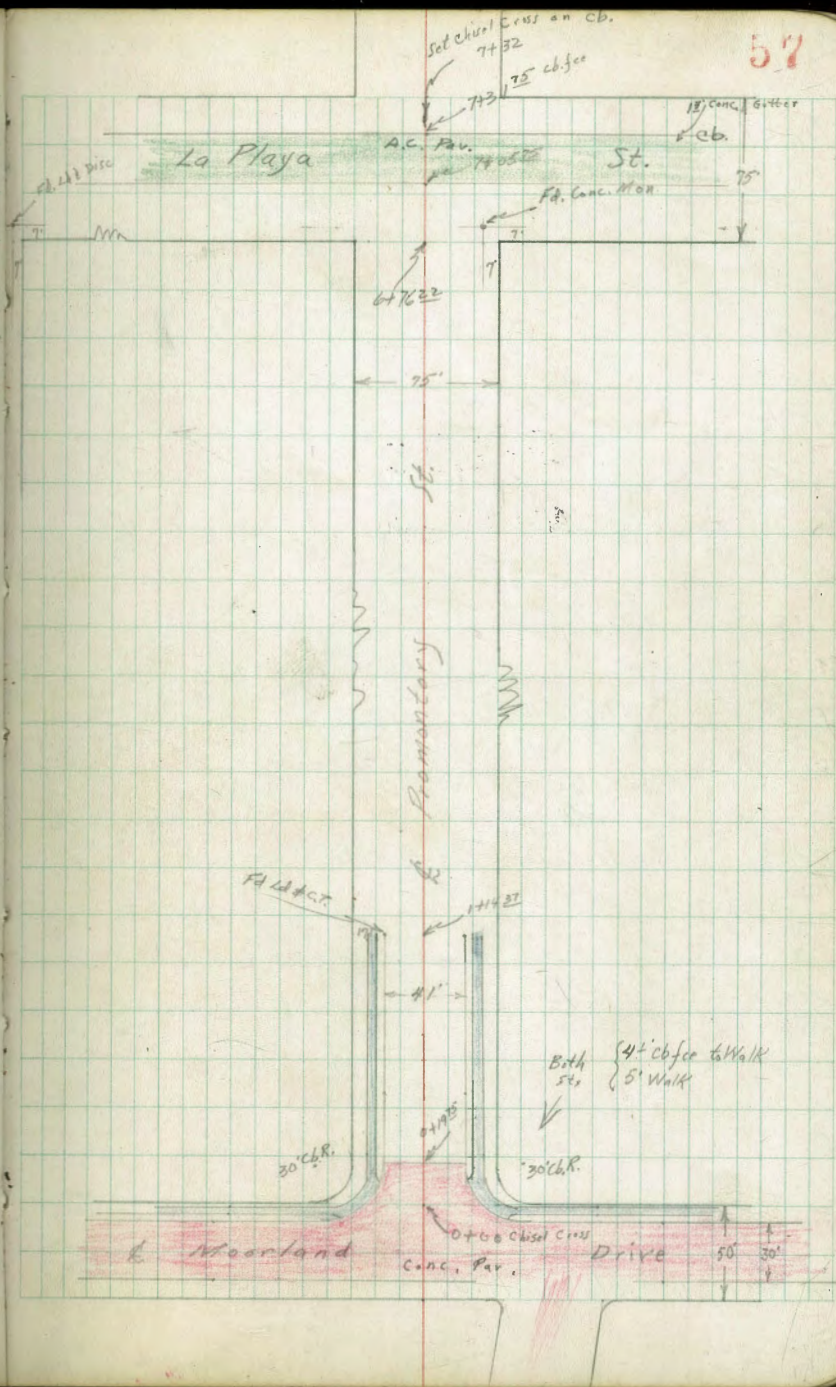
X-Section Promontory Street  
(Moerland Dr. to La Playa Ave.)

T.P. 27

T.P. 1274 #5

Map 1891

INDEXED  
N.K.  
FEB 10 1950













4+00

5.0	30.1	5.3	29.8	6.4	28.7	6.8	28.3	7.0	28.1	7.0	28.1	7.1	28.0	7.1	28.0
50		27		20.5		10		20.5		27		37.5		50	

3+91 38' Lt 12' Conc. Drive

4.35  
4.0  
Drive

50.78

4.72  
3.8  
Drive

30.4

3+75

{ 30' Rt. Begin Oleander Hedge  
30' Rt. End Board Fence

3+73

37' Lt. End Brick Wall

3+50

5.4

29.7

5.9

29.2

5.9

29.2

6.0

29.1

6.2

28.9

6.4

28.7

3+34

37' Lt. to 8' Conc. Drive

2.90  
5.7  
Floor

32.23

3.55  
3.7  
Drive

31.58

3+26

37' Lt. Begin Brick Wall Approx. 5' high

3+18

center 10' Pampas Bush 34' Lt

2.7	32.4	3.2	31.9	4.0	31.1	4.1	31.0	4.4	30.7	4.8	30.3	4.0	31.1	5.1	30.0	5.1	30.0	5.4	29.7
50		37.5		26		24		20.5		14		20.5		28		37.5		50	

3+00

2+83

37' Lt. End of Drive

1.08  
5.75  
Floor

34.05

1.95  
3.6  
Drive

33.18



Cont'd. From Page 60

5+98 37E' Lt & 3' <sup>Curring</sup> Conc. Walk

T.P. 4.79 32.23 769 2.744

5+57 37I' Lt & 3' Conc. Walk

5+50

5+20 37L' Rt & 8' Conc. Drive

5+08 37S' Rt & 3' Conc. Walk

5+00

4+50

4+22 30S' Rt End Slender Hedge

35.13

Lt

C

Rt

01

32 29.11  
49.0  
walk

338  
37.5  
walk

32.23

540  
540  
Drive

568  
37.5  
Walk

56 29.5  
50

62 28.9  
37.5

75 27.6  
28

78 27.3  
20.5

77 27.4  
12

79 27.2

84 26.7  
10

87 26.2  
20.5

94 25.7  
37.5

98 25.3  
30

2.53  
37.5  
Drive

2.13  
37.5  
Drive

2.45  
37.5  
Walk

2.31  
37.5  
Walk

6.0 29.1  
50

6.3 28.8  
37.5

6.6 28.5  
28

7.4 27.7  
20.5

7.6 27.5

8.0 27.1  
10

7.9 27.2  
20.5

8.3 26.8  
26

8.6 26.5  
37.5

8.8 26.3  
30

5.2 29.8  
50

5.6 29.5  
37.5

5.8 29.3  
29

6.4 28.7  
20.5

6.9 28.2  
19

7.0 28.1

7.6 27.5  
14

6.7 28.2  
17

7.1 28.0  
20.5

8.0 27.7  
37.5

8.4 26.7  
50

35.13



6+97

6+93 39' Lt Center P. Pole # 22 073H

6+91

6+7622 So. Line La Playa

6+76 Rt End Rail Fence

6+73 22 Rt. Center Fire Hydrant

6+65 33 RA & 25' Conc. Ribbon Drive 8' Overall

6+38

6+26 312' Rt Begin Rail Fence

6+16E 37E' Lt & 2' Conc. Ribbon Drive 7' Overall

6+00

32.23  
1

Station	Notes	50	37.5	28	24	20.5	10	20.5	37.5	50
6+97		42	43	45	48	52	52	52	52	51
6+93		50	37.5	28	24	20.5	10	20.5	37.5	50
6+91		40	40	43	47	50	63	63	73	72
6+7622		34	40	44	50	51	56	61	63	67
6+76		50	37.5	28	24	20.5	10	20.5	37.5	50
6+73		27.8	28.2	27.8	27.2	27.1	26.6	26.1	25.9	25.5
6+65		27.8	28.2	27.8	27.2	27.1	26.6	26.1	25.9	25.5
6+38		27.8	28.2	27.8	27.2	27.1	26.6	26.1	25.9	25.5
6+26		27.8	28.2	27.8	27.2	27.1	26.6	26.1	25.9	25.5
6+16E		27.8	28.2	27.8	27.2	27.1	26.6	26.1	25.9	25.5
6+00		27.8	28.2	27.8	27.2	27.1	26.6	26.1	25.9	25.5

32.23  
1

62



			4.78	33.68 = 33.68	Start
T.P.	8.05	38.46	3.10	30.41	
T.P.	6.27	33.51	4.99	27.24	

7+31<sup>75</sup> No. Curb Line La Playa Ave.

7+18<sup>75</sup> \$ Pav. Strip

7+05<sup>75</sup> So. Pav. Edge

32.23

3.82	4.32	4.12	4.62	4.44	4.33	5.12	4.62	5.39	4.89
100	100	50	50	50	50	50	50	100	100
cb	Gut	cb	Gut	Gut	cb	Gut	cb	Gut	cb
		28.19	27.92	27.79	27.92	27.92	27.61	27.26	26.84
		1.04	4.31	4.54	4.71	4.71	4.97	4.97	4.97
		100	50	50	50	50	100	100	100
28.15	27.81	27.79	27.77	27.70	27.61	27.55	27.47	27.23	27.23
4.08	4.41	4.44	4.46	4.53	4.62	4.68	4.76	5.00	5.00
100	375	20.5	10.25	10.25	10.25	20.5	375	100	100

32.23



Typical Sections of Roadway of  
Adams - from Park Blvd. to Bound.

W.O. 20623

- 4-20-50

7.0

5+00

4+40

3+80 - E.L.

3+00 = w.L. Georgia

2+00

1+00

of Adams. = 1/2 of Tracks

0+00 = E.L. Park Blvd. - Sta are along 1/2

No Elev. datum used - just Rods.  
will show by Heavy line & changes in  $\pi$

Lt.

←

Rt.

64

— = end of H.I.

12.44 26 9	11.55 13	11.46	11.46 10	11.56 14	11.88 26 9
------------------	-------------	-------	-------------	-------------	------------------

9.86 26 9	8.87 13	8.90	8.74 10	8.86 14	9.06 26 9
-----------------	------------	------	------------	------------	-----------------

7.42 26 9	6.51 13	6.29	6.40 10	6.47 17	6.68 26 9
-----------------	------------	------	------------	------------	-----------------

6.52 26 9	5.57 13	5.35	5.40 10	5.42 16	5.70 26 9
-----------------	------------	------	------------	------------	-----------------

6.45 26 9	5.34 13	5.17	5.23 10	5.20 17	5.55 26 9
-----------------	------------	------	------------	------------	-----------------

6.28 26 9	5.20 13	5.03	5.14 13	5.12 16	5.44 26 9
-----------------	------------	------	------------	------------	-----------------

6.24 26 9	5.10 13	4.98	4.98 13	5.22 26 9
-----------------	------------	------	------------	-----------------



10+70 = E.C. - Normal to Tracks

9+78.5 = P.C. of Tracks curve =  $\pm$  =  $\pm$  of Tracks

9+00

8+30 = Reg. Sect. again

8+05 =  $\pm$  Conc. Dr. to Car Barns on Lt.

7+85

7+30 =  $\pm$

6+90 = W.L. Florida

6+70

6+00

65

586 Top	604 17.3 9	5.66 9	5.57	5.44 9	5.24 20	5.13 35	
	6.61 26	6.34 13	6.12	6.15 16	6.29 18	6.53 26 9	
	7.17 26 9	6.30 13	6.09	6.12 10	6.47 18	7.11 26 9	
	6.80 26 9	6.02 18	5.84 13	5.71	5.72 10	6.02 18	6.47 26 9
	5.70 26 on Conc	5.75 13	5.68	5.65 10	5.79 7	6.30 26 9	
	6.17 26 9	5.60 13	5.40	5.44 10	5.60 18	6.13 26 9	
	5.06 26 9	4.41 13	4.52	4.53 10	4.65 18	5.02 26 9	
	3.88 26 9	3.15 13	3.07	3.11 10	3.30 18	3.78 26 9	
	0.97 26 9	0.09 13	0.07	0.04 10	0.27 18	0.75 26 9	

New H.I.



18+645

W/ Louisiana  
line

18+00

17+00

16+00

15+50

14+85

W Line Mississippi

14+00

13+40

12+74 EC

11+67

66

6.80 26g	6.05 15	6.92	6.07 15	6.65 26g
6.54 26g	6.02 17	5.77	5.97 17	6.43 26g
6.20 26	5.33 10	5.33	5.49 16	6.05 26g
5.85 26g	5.05 15	4.98	5.10 17	5.71 26g
5.87 26g	5.31 16	5.31	5.24 13	5.42 26
7.72 26g	7.16 17	6.92 10	6.85 13	7.01 13
7.49 26g				
10.25 26g	9.75 17	9.62	9.83 17	10.35 26g
2.24 26g	1.82 17	1.75	2.11 18	2.48 26g
4.44 26g	4.01 18	3.93	4.03 13	4.66 26g
6.86 26	6.62 13		6.59 26	6.55 17
				7.10 9



26+25 W Line Arizona

0.97 26	0.40 16	0.20	0.22 13	0.74 26
------------	------------	------	------------	------------

25

7.80 26 9	7.26 13	7.19	7.34 13	7.94 26 9
-----------------	------------	------	------------	-----------------

24+35 Bridge Approach

11.19 26 9	10.46 13	10.46	10.53 13	11.25 26 9
------------------	-------------	-------	-------------	------------------

24+04 End of Bridge

12.50 11.3		12.50		12.47 11.3
---------------	--	-------	--	---------------

23+00

3.33 11.3		3.35		3.27 11.4
--------------	--	------	--	--------------

22+00

4.03 11.3		3.97	3.99 11.4	
--------------	--	------	--------------	--

21+08 Beg Bridge

4.71 11.3		4.67		4.61 11.3
--------------	--	------	--	--------------

20+74 Bridge Approach

5.64 24 9	4.75 13	4.78	4.65 14	5.70 26 9
-----------------	------------	------	------------	-----------------

19+60

4.87 26 9	4.17 16	4.01	4.13 16	4.76 26 9
-----------------	------------	------	------------	-----------------



35+00

5.21  
2694.89  
13

4.73

4.82  
106.05  
269

33+86 W Line Oregon

5.48  
2695.38  
18

5.23

5.36  
116.25  
269

33+00

6.70  
2696.27  
13

6.19

6.33  
137.13  
269

32+00

7.80  
2697.43  
13

7.35

7.40  
168.07  
269

31+00

9.11  
2698.59  
16

8.45

8.44  
109.26  
269

30+05.5 W Line Hamilton

2.72  
2692.11  
10

2.08

2.14  
132.80  
269

29+00

5.00  
2694.17  
8

4.13

4.17  
164.70  
269

28+00

8.10  
2697.27  
10

7.24

7.28  
177.76  
269

27+00

13.05  
26912.42  
17

12.35

12.33  
1013.03  
269



43+00

5.02  
26  
94.96  
13

4.99

5.07  
175.21  
26  
9

42+00

5.37  
26  
15.28  
13

5.22

5.30  
135.58  
26  
9

41+45 W/ Utah

5.60  
26  
95.38  
13

5.40

5.39  
106.28  
26  
9

41+00

4.68  
26  
94.40  
13

4.42

4.65  
185.35  
26  
9

40+00

4.99  
26  
14.72  
15

4.74

4.77  
135.45  
26

39+00

5.27  
264.97  
16

5.00

5.28  
165.91  
26  
9

37+71.5 W Line Idaho

5.31  
26  
95.08  
19

5.21

5.27  
146.14  
26  
9

37+00

5.48  
26  
95.16  
13

5.30

5.37  
146.20  
26  
9

36+00

5.99  
26  
95.63  
13

5.57

5.61  
126.74  
26  
9



52

5.46  
26  
94.98  
13

5.06

4.97  
165.32  
26  
9

51+00

6.01  
26  
95.45  
13

5.42

5.33  
135.55  
26  
9

50+00

5.42  
26  
95.09  
13

5.11

5.09  
135.36  
26  
9

49+05 w/line 30th

5.62  
26  
95.49  
13

5.65

5.63  
14  
6.37  
26  
9

48+00

6.17  
26  
95.90  
15

6.10

6.15  
166.85  
26  
9

47+00

6.29  
26  
96.26  
15

6.36

6.47  
137.17  
26

46+00

6.59  
26  
96.51  
15

6.51

6.60  
136.73  
197.56  
26  
9

45+26 w Line Kansas.

4.23  
26  
94.16  
13

4.25

4.25  
175.09  
26  
9

44+00

4.54  
26  
94.50  
13

4.64

4.70  
135.35  
26  
9



55+80 B.C. of curve left of int E Line  
of Boundary

5.17 26g	4.61 18	4.61	4.45 13	4.81 26g
-------------	------------	------	------------	-------------

55+00

5.30 26	4.91 13	4.89	4.80 13	5.00 26g
------------	------------	------	------------	-------------

54+00

5.80 26g	5.19 13	5.17	5.23 13	5.50 26g
-------------	------------	------	------------	-------------

52+86 W Line Ohio

5.43 26	4.84 13	4.84	4.71 13	5.00 26g
------------	------------	------	------------	-------------



X-Sect. Santa Margarita - from  
Churchward to San Jacinto - 60' st.  
for Grade est.

# 5288                      6-15-51                      7.0.  
W.O. 25020 - See B. 1712-P-1 for sketch.

2+35- 55' Lt. =  $\pm$  Conc House  
2+30- 48' Rt. =  $\pm$  Conc. Stab. along House

2+00

1+50

1+00

0+75- 47' Lt. =  $\pm$  Steps to New church

Beg. 0+62.69 = N.H. at  $\pm$

See B. 1712-P-8 for Conc. shots

Note: Used Elev. Rod - Actual Elev. Shown

B.M.

184.58 = 0+00

Lt.

$\pm$

Rt.

72

INDIVID

JUN 18 1951

69.84                      68.7  
55'                      55' ground  
floor

76.97  
48' = Conc.

68.9    69.3    72.1    72.6    73.5    74.3    77.1  
40       30       15       15       30       40

74.6    75.5    76.7    76.7    77.4    78.8  
40       30       15       15       30

79.5    80.1    80.4    80.4    81.47  
48       30       15       20  
along church                      edge Conc.

83.14                      84.74  
47'                      floor  
Top Bottom  
step.

83.3    83.1    82.5    :82.64  
50       30       15                      edge Conc.  
along New  
church

Note: 100' Not Noted.

Ld. + ct. B. 1712-P-8.



check # Hub. 4+85.20

173.23 173.25 = 1712-P.10

5+35 = # = Long Chord produced.

4+85.20 = E.C.

4+75 - 64 Rt. = # New House foundation

4+35

3+85

3+78-285 Rt. = # 2' Conc. Walk

3+35

3+17-44.5 Rt. = # Small House

3+16-31.5 Lt. = # 12' Conc. Drive

2+86.09 = B.C.

2+50

Lt.

#

Rt.

3

71.1 72.4 73.6 74.6 75.4 76.3 77.0  
50 30 15 15 30 40

71.8 72.2 72.9 73.9 74.3 75.9 77.0  
40 30 15 15 30 40

78.4 82.68  
64 ground. 10' found.

71.5 71.9 72.7 73.4 73.8 76.1 77.1  
40 30 15 15 30 40

71.3 71.9 72.2 72.7 73.7 76.0 76.7  
40 30 15 15 30 40

74.87 75.82  
28.5 walk 27 = walk

70.86 71.0 71.3 71.7 72.1 75.0 76.90  
40 on walk to house 30 40 = on Conc walk

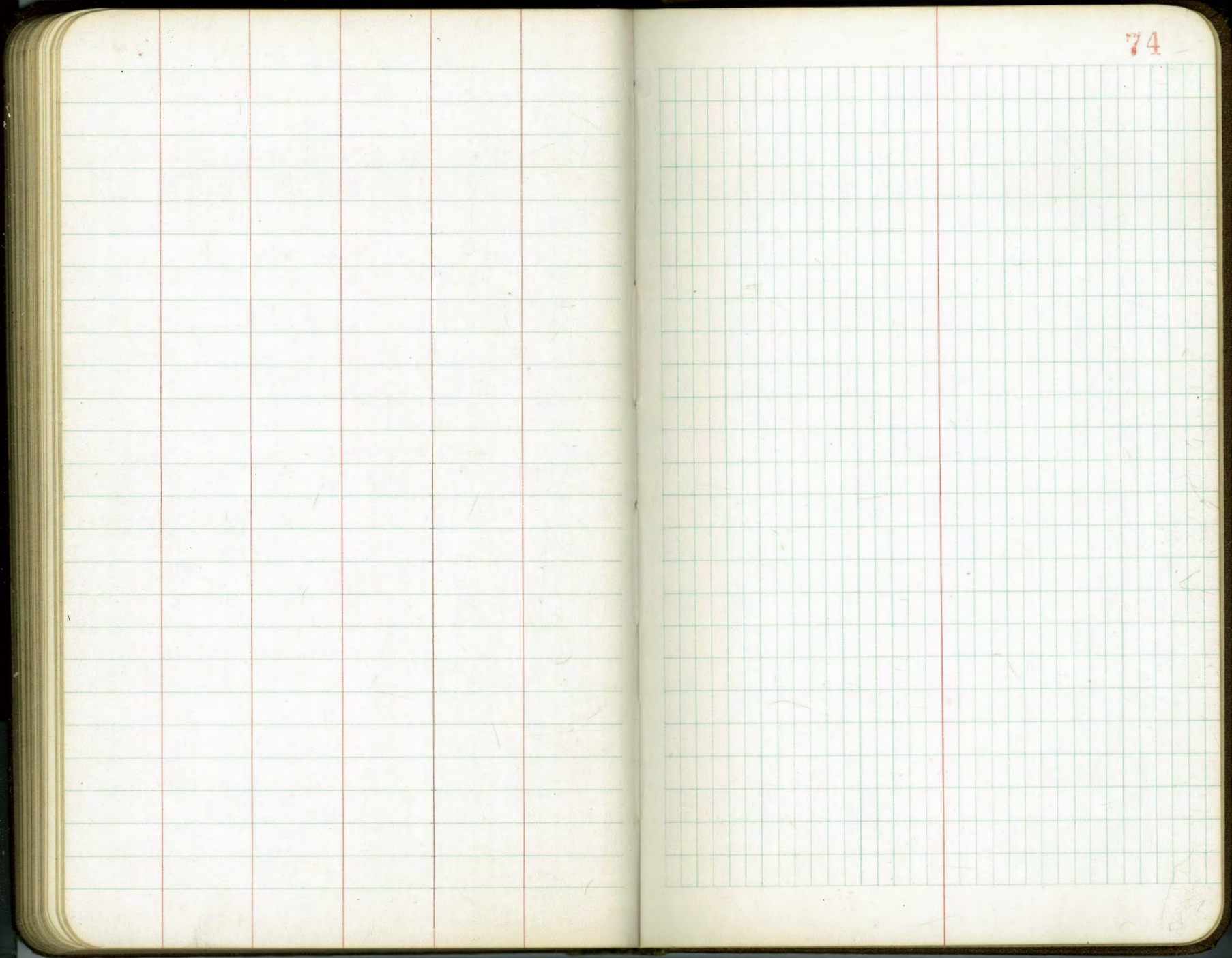
75.8 77.50  
44.5 ground floor

69.20 70.75  
50 Dr. 21.5 = Dr.

68.7 69.2 69.9 70.6 71.1 72.3 75.5  
40 30 15 15 30 40

68.1 68.5 70.5 70.5 71.1 72.3 76.0  
40 30 15 15 30 40

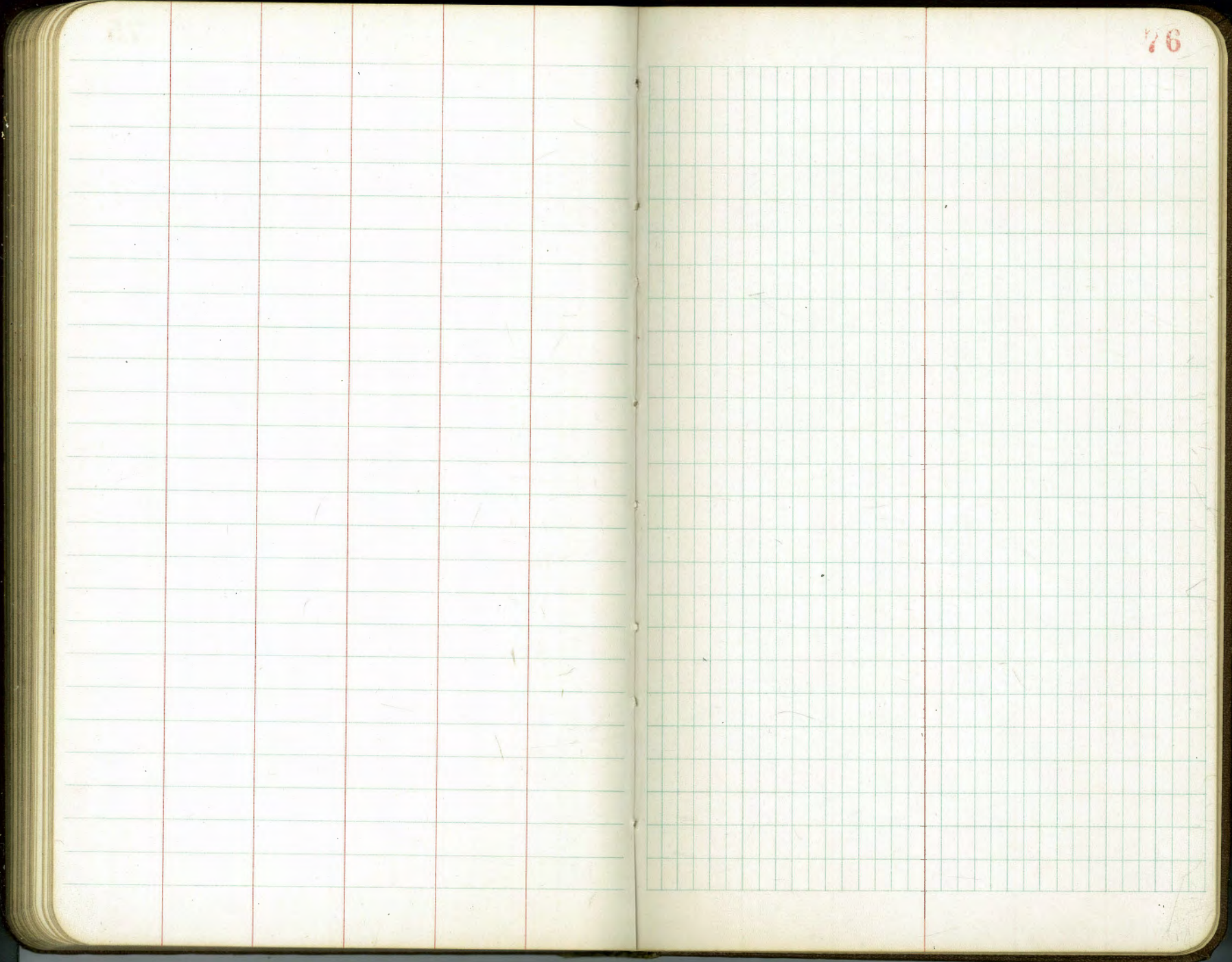




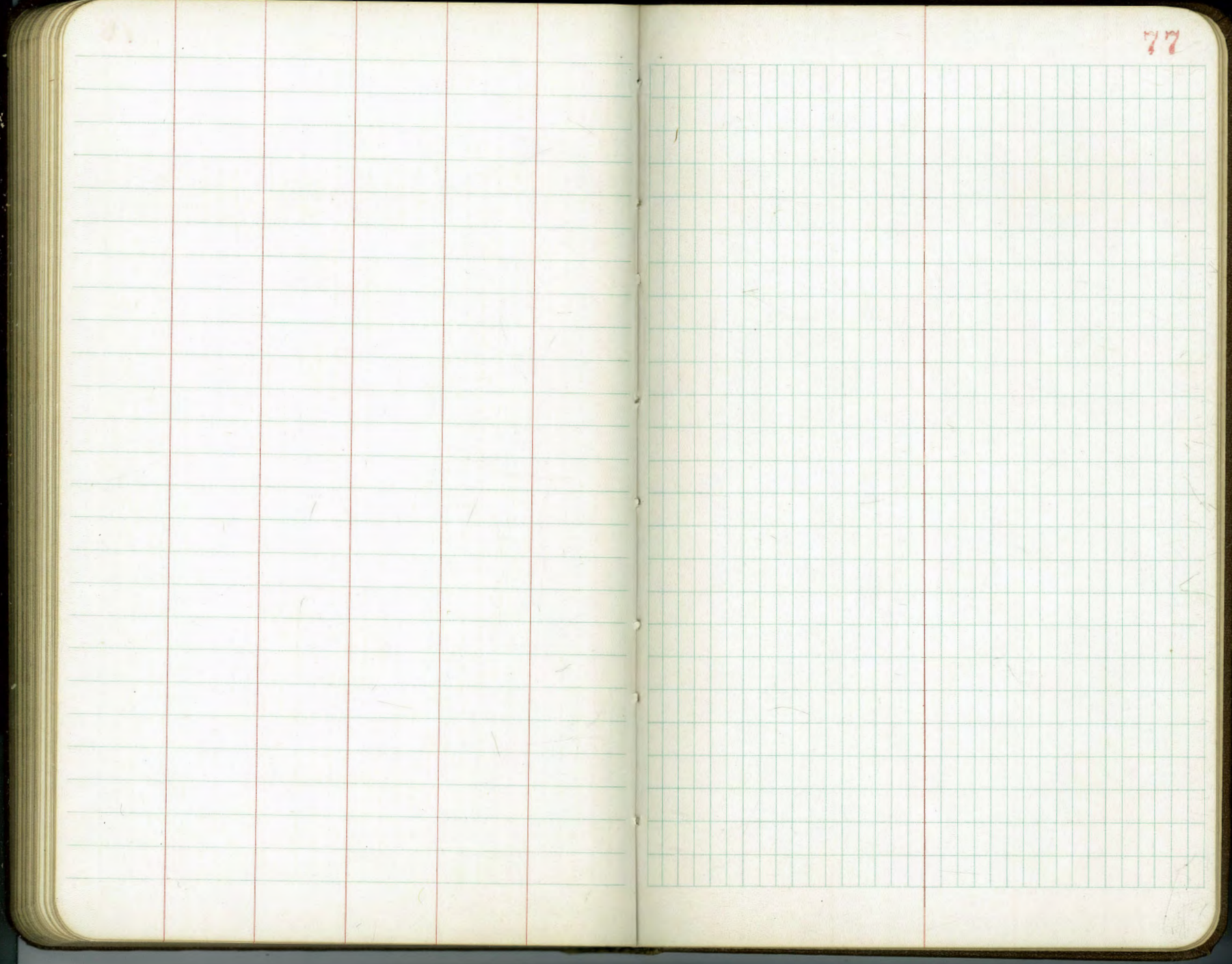












77





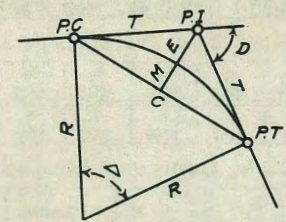






# DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

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63  
561.15  
75  
634.67  
-----  
1270.22

### 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= $E = T \tan \frac{\Delta}{4} = R \div \cos \frac{\Delta}{2} - R$  (8)  $= R \text{exsec} \frac{\Delta}{2}$  (9)
- Long Chord= $C = 2 R \sin \frac{\Delta}{2}$  (10)  $\Delta =$  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  $1^\circ$  curve  $T=3454.1$  and  $\div 8\frac{1}{3}=414.49$  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= $7.27 \frac{(54.50 \div 100)^2}{1} = 2.16$  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  $\times 54.5 \times 8\frac{1}{3}=136.2'$  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  $1^\circ$  curve  $E=960.6$  for  $8^\circ 20' = 960.6 \div 8\frac{1}{3} = 115.27$  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  $D=5^\circ 30'$ .



41.09  
5.21  
5.88

659.46  
634.07  
25.39

DISTANCES FROM CENTER OF ROADWAY FOR  
CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½  
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.