

2004

2007

**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

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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.

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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MONTGOMERY INDEX

2004 1

~~Gibbs~~ Airport

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12-22-48 Land Area Grades  
 Hendricks Gibbs Airport  
 Bramby From Base Line to East  
 Greer  
 Rorer

550 600 650 700 750

1950 H

INDEXED  
 W.K.  
 JAN 20 1950

0 50 100 150 200

1950 H

550 600 650 700 750

1900 H 409.52 409.77 410.03 410.28 410.54

0 50 100 150 200

1900 H 406.71 406.97 407.22 407.48 407.73

800 850 890

250 300 350 400 450 500

800 850 880

410.79 411.05 411.20

250 300 350 400 450 500

407.99 408.24 408.50 408.75 409.01 409.26

Land Area Grades. East  
of Base Line (Cont'd.)

E 550 E 600 E 650 E 700 E 750

E 800 E 850 E 900 E 925

2050N

2050N E 0 E 50 E 100 E 150 E 200

E 250 E 300 E 350 E 400 E 450 E 500

2050N

2050N E 550 E 600 E 650 E 700 E 750

E 800 E 850 E 900

2000N 410.44 410.76 411.08 411.40 411.72

412.04 412.36 412.68

E 0 E 50 E 100 E 150 E 200

E 250 E 300 E 350 E 400 E 450 E 500

2000N 406.92 407.24 407.56 407.88 408.20

408.52 408.84 409.16 409.48 409.80 410.12

Land Area Grades, East  
of Base Line Contd.

E	E	E	E	E
550	600	650	700	750

E	E	E	E
800	850	900	950

2150 N

E	E	E	E	E
0	50	100	150	200

E	E	E	E	E	E
250	300	350	400	450	500

2150 N

E	E	E	E	E
550	600	650	700	750

E	E	E	E
800	850	900	950

2100 N 410.65 410.97 411.29 411.61 411.93

412.25 412.57 412.89 413.21

2100 N

E	E	E	E	E
0	50	100	150	200

E	E	E	E	E	E
250	300	350	400	450	500

2100 N 407.13 407.45 407.77 408.09 408.62

408.96 409.05 409.37 409.69 410.01 410.33

Land Area Grades East  
of Base Line Contd.

E	E	E	E	E
550	600	650	700	750

2250 N

E	E	E	E	E
0	50	100	150	200

2250 N

E	E	E	E	E
550	600	650	700	750

2200 N 410.75 411.06 411.37 411.68 411.99

E	E	E	E	E
0	50	100	150	200

2200 N 407.34 407.65 407.96 408.27 408.58

5

E	E	E	E
800	850	900	930

E	E	E	E	E	E
250	300	350	400	450	500

E	E	E	E
800	850	900	927

412.30 412.61 412.92 413.11

E	E	E	E	E	E
250	300	350	400	450	500

408.89 409.20 409.51 409.82 410.13 410.44

Land Area Grades East  
of Base Line Contd.

E	E	E	E	E
550	600	650	700	750

2350 N

E	E	E	E	E
0	50	100	150	200

2350 N

E	E	E	E	E
550	600	650	700	750

2300 N 411.02 411.38 411.65 411.96 412.28

E	E	E	E	E
0	50	100	150	200

2300 N 407.55 407.87 408.18 408.50 408.81

E	E	E	E	E	E
800	850	900	950	1000	1017

E	E	E	E	E	E
250	300	350	400	450	500

E	E	E	E
800	850	900	933

412.59 412.91 413.22 413.43

E	E	E	E	E	E
250	300	350	400	450	500

409.13 409.44 409.76 410.07 410.39 410.70



Land Area Grades East  
of Base Line Contd.

E	E	E	E	E
600	650	700	750	800

E	E	E	E	E	E	E
850	900	950	1000	1050	1100	1120

2450 N

2450 N

E	E	E	E	E
0	50	100	150	200

E	E	E	E	E	E	E
250	300	350	400	450	500	550

2450 N

E	E	E	E	E
600	650	700	750	800

E	E	E	E	E	E
850	900	950	1000	1050	1100

2400 N 411.35 411.65 411.95 412.25 412.55

412.85 413.15 413.45 413.75 414.05 414.35

E	E	E	E	E
0	50	100	150	200

E	E	E	E	E	E	E
250	300	350	400	450	500	550

2400 N 407.75 408.05 408.35 408.65 408.95

409.25 409.55 409.85 410.15 410.45 410.75 411.05

Land Area Grades East  
of Base Line Contd.

E	E	E	E	E
600	650	700	750	800

2550 N

E	E	E	E	E
0	50	100	150	200

2550 N

E	E	E	E	E
600	650	700	750	800

2500 N 411.38 411.67 411.95 412.24 412.52

E	E	E	E	E
0	50	100	150	200

2500 N 407.96 408.25 408.53 408.82 409.10

E	E	E	E	E	E	E
850	900	950	1000	1050	1100	1125

E	E	E	E	E	E	E
250	300	350	400	450	500	550

E	E	E	E	E	E	E
850	900	950	1000	1050	1100	1140

412.81 413.09 413.38 413.66 413.95 414.23 414.46

E	E	E	E	E	E	E
250	300	350	400	450	500	550

409.39 409.67 409.96 410.24 410.53 410.81 411.10

Land Area Grades East  
of Base Line Cont'd.

E 600	E 650	E 700	E 750	E 800
----------	----------	----------	----------	----------

2650 N

E 0	E 50	E 100	E 150	E 200
--------	---------	----------	----------	----------

2650 N

E 600	E 650	E 700	E 750	E 800
----------	----------	----------	----------	----------

2600 N 411.35      411.88      412.43

E 0	E 50	E 100	E 150	E 200
--------	---------	----------	----------	----------

2600 N 408.17 408.44 408.70      409.23

E 850	E 900	E 950	E 1000	E 1050	E 1100	E 1150
----------	----------	----------	-----------	-----------	-----------	-----------

E 250	E 300	E 350	E 400	E 450	E 500	E 550
----------	----------	----------	----------	----------	----------	----------

E 850	E 900	E 950	E 1000	E 1050	E 1100	E 1150
----------	----------	----------	-----------	-----------	-----------	-----------

412.96      413.49      414.02 414.16

E 250	E 300	E 350	E 400	E 450	E 500	E 550
----------	----------	----------	----------	----------	----------	----------

409.76      410.29      410.82

Land Area Grades East  
of Base Line Contd.

10

E	E	E	E	E
600	650	700	750	800

E	E	E	E	E	E	E
850	900	950	1000	1050	1100	1127

2750 N

O	E	E	E	E
E	50	100	150	200

E	E	E	E	E	E	E
250	300	350	400	450	500	550

2750 N

E	E	E	E	E
600	650	700	750	800

E	E	E	E	E	E	E
850	900	950	1000	1050	1100	1130

2700 N 411.38

411.88

412.38

412.88

413.38

413.88 414.03

E	E	E	E	E
0	50	100	150	200

E	E	E	E	E	E	E
250	300	350	400	450	500	550

2700 N 408.38

408.88

409.38

409.88

410.38

410.88

12-28-48  
Hendricks  
Cramby  
Greer  
Korer

Land Area Grades East  
of Base Line Contd.

	E 600	E 650	E 700	E 750	E 800
2850 N	411.57 7.76 ✓	412.14 7.69 ✓	412.40 7.43 ✓	412.67 7.16 ✓	412.93 6.90 ✓

419.83

E 0    E 50    E 100    E 150    E 200

	E 600	E 650	E 700	E 750	E 800
2850 N	408.67 6.77 ✓	408.96 6.50 ✓	409.22 6.24 ✓	409.49 5.97 ✓	409.75 5.71 ✓

B.17    7.40    415.46    408.06

E 600    E 650    E 700    E 750    E 800

	E 600	E 650	E 700	E 750	E 800
2800 N	411.77	412.04	412.30	412.57	412.83

E 0    E 50    E 100    E 150    E 200

	E 600	E 650	E 700	E 750	E 800
2800 N	408.59	408.86	409.12	409.39	409.65

408.06

11

E 850	E 900	E 950	E 1000	E 1050	E 1092	E 1130
413.20 6.63 ✓	413.46 6.37 ✓	413.73 6.10 ✓	413.99 5.84 ✓	414.24 5.59 ✓	414.45 5.38 ✓	414.67 5.16 ✓
	5.89 6048	5.64 6066	4.98 6086	4.63 6096	4.64 60.74	

E 250    E 300    E 350    E 400    E 450    E 500    E 550

	E 250	E 300	E 350	E 400	E 450	E 500	E 550
	410.02 5.44 ✓	410.28 5.18 ✓	410.55 4.91 ✓	410.81 4.65 ✓	411.08 4.38 ✓	411.34 4.12 ✓	411.61 3.85 ✓

on stub 11450 FB 1996 P. 41

E 850    E 900    E 950    E 1000    E 1050    E 1100    E 1125

	E 850	E 900	E 950	E 1000	E 1050	E 1100	E 1125
	413.10	413.36	413.63	413.89	414.16	414.42	414.55

E 250    E 300    E 350    E 400    E 450    E 500    E 550

	E 250	E 300	E 350	E 400	E 450	E 500	E 550
	409.92	410.18	410.45	410.71	410.98	411.24	411.51

on stub 11450 FB 1996 P. 41

Land Area Grades East  
of Base Line Contd.

	E 650	E 700	E 750	E 800	E 850	E 900
2980 N	412.25	412.51	412.76	413.02	413.28	413.54
	7.58	7.32	7.07	6.81	6.55	6.29
	9.12				6.06	
	F1.54				CO.49	552
		419.83 from p. 13				CO.77

E	E	E	E	E	E
0	50	100	150	200	250

	E 600	E 650	E 700	E 750	E 800
2950 N	408.90	409.16	409.42	409.68	409.93
	6.56	6.30	6.02	5.78	5.52
					5.27

415.46

E	E	E	E	E
600	650	700	750	800

	E 600	E 650	E 700	E 750	E 800
2900 N	411.97	412.24	412.50	412.77	413.03
	7.86	7.59	7.32	7.06	6.80
					6.50
					CO.30
		419.83			

E	E	E	E	E
0	50	100	150	200

	E 600	E 650	E 700	E 750	E 800
2900 N	408.79	409.06	409.32	409.59	409.85
	6.67	6.40	6.14	5.87	5.61
				5.59	
				CO.28	
		415.46			

E	E	E	E	E	E	E
950	1004	1050	1100	1150	1200	1222
	Bk					
413.80	414.06	413.62	413.14	412.66	412.18	411.97
6.03	5.77	6.21	6.69	7.17	7.65	7.96
5.12		5.87		8.05	8.71	8.86
CO.87		CO.34		F0.88	F1.06	F1.00

E	E	E	E	E	E	E
300	350	400	450	500	550	600

	E 850	E 900	E 950	E 1000	E 1050	E 1100	E 1150
410.45	410.71	410.96	411.22	411.48	411.74	411.99	
5.01	4.75	4.50	4.24	3.98	3.72	3.47	
	4.25	3.75	3.50	3.25	3.00	2.75	
	CO.59	F1.23	F3.34	7.88	8.88	9.28	
				F3.90	F5.16	F2.78	

E	E	E	E	E	E	E
850	900	950	1000	1050	1100	1150

	E 850	E 900	E 950	E 1000	E 1050	E 1100	E 1150
413.30	413.56	413.83	414.09	414.35	414.60	414.86	
4.53	4.27	4.00	3.74	3.48	3.22	2.96	
6.19	5.15	4.73	4.40	3.89	3.69	3.49	
CO.34	CO.12	CO.27	CO.34	CO.1.89	CO.1.14		

Bk.

E	E	E	E	E	E	E
250	300	350	400	450	500	550

	E 850	E 900	E 950	E 1000	E 1050	E 1100	E 1150
410.12	410.38	410.65	410.91	411.18	411.44	411.71	
5.32	5.08	4.81	4.55	4.28	4.02	3.75	
5.02	4.75	4.66					
CO.30	CO.33	CO.57					

Land Area Grades East  
of Base Line Contd.

	E 650	E 700	E 750	E 800	E 850	E Bk 889
3050 N	412.35	412.60	412.85	413.10	413.35	413.54
	5.55	5.30	5.05	4.80	4.55	4.30
	6.85		4.35			5.06
	F109		6.67			F070
		417.90	from P			

	E 0	E 50	E 100	E 150	E 200	E 250
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3050 N	409.10	409.35	409.60	409.85	410.10	410.35
	6.36	6.11	5.86	5.61	5.36	5.11

415.46  
A

	E 650	E 700	E 750	E 800	E 850	E 900
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3000 N	412.25	412.50	412.75	413.00	413.25	413.50
	5.65	5.40	5.15	4.90	4.65	4.40
	F065					4.95
	6.30					F055

417.90

8.38	419.85	6.45	411.45	411.45
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	E 0	E 50	E 100	E 150	E 200	E 250
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30700 N	409.00	409.25	409.50	409.75	410.00	410.25
	6.46	6.21	5.96	5.71	5.46	5.21

415.46  
A

	E 950	E 1000	E 1050	E 1100	E 1150	E 1200
412.94	412.45	411.96	411.47	410.98	410.44	
4.96	5.45	5.94	6.43	6.92	7	
6.09	6.30					
F1.13	F0.85					

	E 300	E 350	E 400	E 450	E 500	E 550	E 600
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410.60	410.85	411.10	411.35	411.60	411.85	412.10
4.86	4.61	4.36	4.11	3.86	3.61	3.36
	4.05			4.92		4.86
	6.05			F1.06		F1.50

	E 950	E 1000	E 1050	E 1100	E 1150	E 1200	E 1250	E 1300
413.78	413.25	412.66	412.38	411.90	411.41	410.90	410.35	
4.17	4.12	4.55	5.24	5.52	6.00	6.49	6.97	
4.80	5.18						7.55	
F0.53	F0.63						7.13	
							6.43	
							6.05	

on stub M.R.D T. 517 3000 N 350 E

	E 300	E 350	E 400	E 450	E 500	E 550	E 600
410.50	410.75	411.00	411.25	411.50	411.75	412.00	
4.96	4.71	4.46	4.21	3.96	3.71	3.46	
	4.01	6.05	7.52	8.09	8.35	8.61	
	6.02	F1.62	F3.31	F4.13	F4.64	F3.35	

Land Area Grades East  
of Base Line Contd.

	E 600	E 650	E 700	E 732	E 800
3150 N	412.26	412.51	412.76	412.92	412.32
	5.64	5.39	5.14	4.98	5.58
	7.43	6.33			3.66
	F 1.84	F 0.76			C 1.92

TP 6.80 417.90 4.36 411.10

	E 0	E 50	E 100	E 150	E 200
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	E 600	E 650	E 700	E 750	E 800
3150 N	409.26	409.51	409.76	410.01	410.26
	6.20	5.95	5.70	5.45	5.20

415.46

	E 0	E 50	E 100	E 150	E 200
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	E 600	E 650	E 700	E 750	E 800
3100 N	412.21	412.46	412.71	412.96	413.21
	Water	5.44	5.19	4.94	4.69
		5.74			
		F 0.34			

417.90

	E 0	E 50	E 100	E 150	E 200
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	E 600	E 650	E 700	E 750	E 800
3100 N	409.21	409.46	409.71	409.96	410.21
	6.25	6.00	5.75	5.50	5.25

415.46

	E 850	E 900	E 950	E 1000
	411.82	411.46	411.03	410.60
	6.01	6.44	6.87	Water
	5.43	5.99		
	C 0.58	C 0.46		

	E 250	E 300	E 350	E 400	E 450	E 500	E 550
--	----------	----------	----------	----------	----------	----------	----------

	E 820	E 850	E 900	E 950	E 1000	E 1050	E 1100
	410.51	410.76	411.01	411.26	411.51	411.76	412.01
	4.95	4.70	4.45	4.20	3.95	Water	Water
					4.99		
					F 1.04		

	E 820	E 850	E 900	E 950	E 1000	E 1050	E 1100
--	----------	----------	----------	----------	-----------	-----------	-----------

	E 820	E 850	E 900	E 950	E 1000	E 1050	E 1100
	413.31	413.01	412.51	412.01	411.51	411.01	410.51
	4.59	4.89	5.39	5.89	6.39	Water	7.37
	4.20	4.32	6.95	6.96			
	C 0.49	C 1.07	F 1.06	F 0.57			

	E 250	E 300	E 350	E 400	E 450	E 500	E 550
--	----------	----------	----------	----------	----------	----------	----------

	E 820	E 850	E 900	E 950	E 1000	E 1050	E 1100
	410.46	410.71	410.96	411.21	411.46	411.71	411.96
	5.00	4.75	4.50	4.25	4.00	3.75	3.50
					5.23	5.25	Water
					F 1.23	F 1.50	



Land Area Grades East  
of Base Line Cont'd.

	E 600	E 650	E 700	E 750	E 790
3250 N	411.93	411.62	411.31	411.00	410.74
	4.31	4.62	4.93	5.24	5.50
	5.31	5.57			5.21
	F1.00				C0.29
		416.24			

	E 0	E 50	E 100	E 150	E 200
3250 N	409.36	409.61	409.86	410.11	410.36
	6.26	6.01	5.76	5.51	5.26
		413.62			

	E 600	E 644	E 700	E 750	E 800
3200 N	412.31	412.53	412.12	411.75	411.39
	Water	3.91	4.12	4.49	Water
		5.91			
		F2.20			

TP. 550 416.24 488 410.74

	E 0	E 50	E 100	E 150	E 200
3200 N	409.31	409.56	409.81	410.06	410.31
	6.31	6.06	5.81	5.56	5.31
	4.17	415.62			411.45

	E 250	E 300	E 350	E 400	E 450	E 500	E 562 814
	410.61	410.86	411.11	411.36	411.61	411.86	412.17
	5.01	4.76	4.51	4.26	Water	3.76	3.45
				5.14		4.73	4.5
				F0.5		F0.97	F1.07

	E 850	E 900
	411.03	410.67
	5.21	5.57

	E 250	E 300	E 350	E 400	E 450	E 500	E 550
	410.56	410.81	411.06	411.31	411.56	411.81	412.06
	5.06	4.81	4.56	4.31	4.06	Water	F1.70
	7.13 M	on stub	3000 ft	350' E			

Land Area Grades East  
of Base Line Contd.

3350 N

E 0 E 50 E 100 E 150 E 200

3350 409.51 409.76 410.02 410.27 410.53  
6.11 5.96 5.60 5.35 5.09

3300 N

E 0 E 50 E 100 E 150 E 200

3300 N 409.42 409.67 409.92 410.17 410.42  
6.20 5.95 5.70 5.45 5.20  
415.62

E 570  
11089'  
Water

E 250 E 300 E 350 E 400 E 450 E 500 E 550

410.78 411.03 411.29 411.62 411.96 411.22 410.98  
4.84 4.59 4.33 4.00 4.16 4.40 Water

E 550 E 600 E 650 E 680

411.49 411.27 411.04 410.82  
4.13 4.35 4.58 4.80  
4.75  
F0.62

E 250 E 300 E 350 E 400 E 450 E 480 E 500

410.67 410.92 411.17 411.42 411.67 411.82 411.72  
4.75 4.80 4.55 4.20 3.95 3.50 3.70  
4.80 4.62  
F1.00 F0.72

Land Area Grades East  
of Base Line Contd.

17

3550 N

3500 N

TP.

E	E	E	E	E
0	50	100	150	200

3450 N	409.72	410.01	410.28	410.56	410.84
	5.90	5.61	5.34	5.06	4.78

E	E	E	E	E
0	50	100	150	200

3400 N	409.60	409.86	410.12	410.38	410.64
	6.02	5.76	5.50	5.24	4.98

415.62  
/

E	E	E	E
0	50	100	150

E	E	E	E	E	E	E
0	50	100	150	200	225	250

409.85	410.15	410.45	410.75	411.05	411.20	411.10
5.77	5.47	5.17	4.87	4.57	4.42	4.52

E	E 5K	E
250	288	355

411.10	411.38	411.03
4.50	4.29	

E	E	E 5K	E	E	E
250	300	352	400	450	460

410.90	411.16	411.42	411.21	411.00	410.96
4.72	4.46	4.20	4.51	4.61	

Land Area Grades East  
of Base Line Contd.

0 50 100 150 200

3600H 400.0 407.0 414.0 421.0 428.0

Dec. 48  
Hendricks  
Bramby  
Greer  
Lerer

Land Area Grades West  
of Base line

Gibbs Airport

	West	W	W	W	W
	00	50	100	150	200
3000 N	40900	40865	40830	40795	40760
		2.90		3.60	3.95
2950 N	40890	40855	40820	40785	40750
		3.00		3.70	4.05
2900 N	40879	40844	40809	40774	40739
		3.11		3.81	4.16
2850 N	40869	40834	40799	40764	40729
	2.86	3.21 (Road)		3.91	4.26
2800 N	40859	40824	40789	40754	40719
B.M.	3.49	411.55		408.06	

W	W	W	W	W	W
250	300	350	400	450	500
407.25	40690	40655	40620	40585	40550
4.30	4.65	5.00	5.35	5.70	6.05
407.15	40680	40645	40610	40575	40540
4.40	4.75	5.10	5.45	5.80	6.15
				5.37	5.57
				6.04	6.58
407.04	40669	40634	40599	40564	40529
4.51	4.86	5.21	5.56	5.91	6.26
			5.16	5.50	
			6.00	6.01	
406.94	40659	40624	40589	40554	40519
4.61	4.96	5.31	5.66	6.01	6.36
				5.30	5.80
				6.01	6.56
406.84	40649	40614	40579	40544	40509

Land Area Grades West  
of Base Line Contd.

	West	W	W	W	W
	00	50	100	150	200
T.P.	3 01	408.91	565	405.90	
3250 N	409.36	409.02 2.48 ✓	408.78	408.50 2.05 ✓	408.21 3.34 ✓
3200 N	409.31	409.01 2.54 ✓	408.72	408.43 3.12 ✓	408.14 3.41 ✓
3150 N	409.26	408.95 2.60 ✓	408.65	408.35 3.20 ✓	408.05 3.50 ✓
3100 N	409.21	408.90 2.65 ✓	408.59	408.28 3.27 ✓	407.97 3.58 ✓
3050 N	409.10	408.77 2.78 ✓	408.44	408.11 3.44 ✓	407.78 3.77 ✓
		411.55			

W	W	W	W	W	W
250	300	350	400	450	500
407.92 3.63 ✓	407.63 3.92 ✓	407.35 4.20 ✓	407.06 4.49 ✓	406.77 4.78 ✓	406.48 5.07 ✓
407.85 3.70 ✓	407.55 4.00 ✓	407.25 4.30 ✓	406.96 4.59 ✓	406.67 4.88 ✓	406.37 5.18 ✓
407.75 3.80 ✓	407.45 4.10 ✓	407.14 4.41 ✓	406.84 4.71 ✓	406.54 5.01 ✓	406.24 5.31 ✓
407.66 3.89 ✓	407.35 4.20 ✓	407.04 4.51 ✓	406.73 4.82 ✓	406.42 5.13 ✓	406.11 5.44 ✓
407.45 4.10 ✓	407.12 4.42 ✓	406.79 4.76 ✓	406.46 5.09 ✓	406.13 5.42 ✓	405.80 5.75 ✓
					5.51 6.024 ✓

Land Area Grades West  
of Base Line Cont'd.

	W 550	W 600	W 650	W 700	W 750
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3000 N	405.15 3.76	404.80 4.11	404.45 4.46	404.10 4.81	403.75 5.16
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2950 N	405.05 3.86	404.70 4.21	404.35 4.56	404.00 4.91	403.65 5.26 4.64 C062
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2900 N	404.94 3.97	404.59 4.32	404.24 4.67	403.89 5.02	403.54 5.37 5.02 C035
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2850 N	404.84 4.07	404.49 4.42	404.14 4.77 4.61 C016	403.79 5.12	403.44 5.47
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2800 N	404.74 4.17	404.39	404.04	403.69	403.34
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16.807

W 800	W 850	W 900	W 950	W 1000	W 1050
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403.40 5.51	403.05 5.86	402.70 6.21	402.35 6.56	402.00 6.91	End
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403.30 5.61	402.95 5.96	402.60 6.31	402.25 6.66	401.87 7.04	W 1095
----------------	----------------	----------------	----------------	----------------	--------

403.19 5.72 5.43 C029	402.84 6.07 5.77 C030	402.49 6.42	402.14 6.77	401.79 7.12	401.44 7.47
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403.09 5.82	402.74 6.17	402.39 6.52	402.04 6.87	401.69 7.22	401.34 7.57
----------------	----------------	----------------	----------------	----------------	----------------

402.99	402.64	402.29	401.94 5.06	401.59 5.41 4.95	401.24 5.76
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C096

(28400 N only)  
N 407<sup>00</sup> (See p. 24 for Sta. 9150 1000 & 1050)

Land Area Grades West  
of Base Line Cont'd.

22

	W	W	W	WY	WY
	550	600	650	700	750
T.P.			3.53	405.38	405.40

3250 N	406.20	405.91	405.62	405.33	405.05
	2.71	3.00	3.29	3.58	3.86

3200 N	406.07	405.77	405.48	405.18	404.89
	2.84	3.14	3.43	3.73	4.02

3150 N	405.93	405.62	405.32	405.01	404.71
	2.98	3.29	3.59	3.90	4.20

3100 N	405.80	405.48	405.16	404.85	404.53
	3.11	3.43	3.75	4.06	4.38
			3.54		
			CO49		

3050 N	405.47	405.14	404.79	404.47	404.13
	3.44	3.77	4.12	4.44	4.78
			3.78		
			CO34		

40891

WY	WY	W	W	WY	WY
800	850	900	950	1000	1050

on Sta 4  
16x50x25' RT Taxiway "C" FB1997  
(960' Bnk)

404.76	404.47	404.18	403.73	403.30	403.89
4.15	4.44	4.73	5.18	5.11	5.02
			4.77		
			CO41		

404.59	404.30	404.00	403.70	403.40	403.50
4.32	4.61	4.91	5.21	5.51	5.41
			4.64	4.96	4.97
			CO57	CO53	CO44

404.40	404.10	403.79	403.48	403.17	402.95
4.57	4.81	5.12	5.43	5.74	5.96
			5.34		5.45
			CO40		CO31

404.21	403.90	403.58	403.26	402.94	402.62
4.70	5.01	5.33	5.65	5.97	6.29

403.80	403.47	403.13	402.80	402.47	402.14
5.11	5.44	5.74	6.11	6.44	6.77





Land Area Grades West  
of Base Line Contd.

	W 1100	W 1150	W 1200	W 1250	
3250 N	40397 303	40406 299	40415 285	40424 276	
3200 N	40361 389	40371 379	40382 318	40392 308	
3150 N	40311 389	40323 377 332	40335 365	40347 353	
3100 N	1070 B.K. 40250 450	40258 992	40271 929	40285 915	40299 902
3050 N	1085 B.K. 40181 519	40186 514	40200 500	40215 485	40230 470
			40257 3.14	40256 1000W 81150N	40395 1000W 32100N
	305	40700			

	W 1300	W 1350	W 1400	W 1450	W 1500	W 1550
	40432 268	40441 259	40450 250	40455 (1430W End)		
	40402 297	40413 287	40424 276	40434 266	40445 255 227	40459 291
	40359 391	40371 329	40383 317	40395 305	40407 293 250	40419 281 221
	40312 388	40325 375	40337 361	40352 348 286	40366 339 231	40379 321 170
	40245 455	40266 434				
OK.						

Land Area Grades West  
of Base Line Cont'd

3250N

3200N

3150N

3100N

3050N

$\frac{0.00}{405.15}$  CK  
 477  
 405.19 75' RT  
 109' 00"  
 15' 30" W  
 405.20 3100N  
 4.61 409.2'

W	W	W	W
1600	1650	1700	1740

C026	W 1640 End.
404.31	404.41
5.60	
5.34	

C127	C112	C067	
403.93	404.06	404.20	404.35
5.98	5.85	5.71	5.56
<u>4.81</u>	<u>4.73</u>	<u>5.04</u>	

Land Area Grades West  
of Base Line (Cont'd)

(Cont. on P. 28)

26

	00	50	100	150	200
		C020 1 Coll 409.84	C028 409.23	408.92	408.61
3500 N	409.85	<del>409.84</del> 409.87 2.87 <u>2.67</u>	<del>409.24</del> 409.23 3.18 <u>2.90</u>	<del>408.93</del> 408.92 3.44 <u>3.49</u>	<del>408.62</del> 408.61 3.80
		C054 1 Coll 409.72	C055 409.11	408.83	
3450 N	409.72	<del>409.71</del> 409.72 2.92 <u>2.66</u>	<del>409.12</del> 409.11 3.26 <u>2.95</u>	<del>408.84</del> 408.83 408.97	<del>408.72</del>
		C042 409.34	C073 409.08	408.74	408.45
3400 N	409.60	<del>409.35</del> 409.34 3.07 <u>2.65</u>	<del>409.09</del> 409.08 3.33 <u>2.60</u>	<del>408.75</del> 408.74 408.88	<del>408.46</del> 408.45 408.60
	2.80	412.91		12' RT 16457.5	
		C040 409.24	408.98	408.71	408.45
3350 N	409.51	<del>409.25</del> 409.24 3.96 <u>3.56</u>			
		C043 409.14	C037 408.86	408.58	408.30
3200 N	409.42	<del>409.15</del> 409.14 4.06 <u>3.63</u>	<del>408.87</del> 408.86 4.34	<del>408.59</del> 408.58 4.62 <u>4.35</u>	<del>408.31</del> 408.30 4.90
	3.59	412.20		409.61	

	250	300	350	400	450	500
	408.30	407.99	407.68	407.37	407.06	C032 406.75
	<del>408.31</del> 408.30 408.38	<del>407.99</del> 407.98 408.22	<del>407.68</del> 407.67 408.07	<del>407.37</del> 407.36 407.81	<del>407.06</del> 407.05 407.56	<del>406.76</del> 406.75 5.50 <u>5.66</u> <u>5.34</u>
	408.47	408.21	407.94	407.71	407.45	406.73 407.20 5.00
	408.16	407.87	407.58	407.29	407.00	406.71
	<del>408.17</del> 408.16	<del>407.88</del> 407.87 408.10	<del>407.59</del> 407.58 407.85	<del>407.30</del> 407.29 407.60	<del>407.01</del> 407.00 407.35	<del>406.72</del> 406.71 407.10
	B.C. Access Road					
	408.18	407.92	407.66	407.39	407.12	406.86
	408.02	407.74	407.46	407.18	406.90	406.62
	<del>408.03</del> 408.02 5.18	<del>407.75</del> 407.74 5.46	<del>407.47</del> 407.46 5.74	<del>407.19</del> 407.18 6.02	<del>406.91</del> 406.90 6.30 <u>6.11</u>	<del>406.63</del> 406.62 6.58
	RT. Side 16457.5	B.C. of Access Road				

Land Area Grades West  
of Base line Contd

00  
W 50 100 150 200

Cont on P-29  
35.95W  
3600 N Sec P-98  
~~40892~~ 4076 40770 40934 40898  
349 385 421

3550 N Co 19  
410.13 40983 40953 40923 40893  
3.06 336 366 396 426  
2.87

913.19  
Cont. from P-28

250 300 350 400 450 500

322.43W  
R.R.  
40862 40811 40792 40758 40724 40690  
457 508 527 561 595 629

40863 40833 40803 40773 40743 40713  
456 486 516 546 576 606

Land Area Grades West

of Base Line Contd. 750  
 550 600 650 700 750  
 (Cont'd on P-27) 12 RT

T.P.	5.94	413.19	323	407.25	21462.92
	CO <sup>35</sup>	CO <sup>29</sup>			
3500N	406.44	406.00	405.92	405.79	405.68
	407.05	406.79	406.54	406.28	406.03
	5.97	6.41	6.49	6.62	4.70
	5.62	(BRK)			

3450 N	406.93	406.00	405.89	405.71	405.55
	406.75	406.70	406.45	406.19	405.89
	3.53	3.78	4.03	4.29	4.59
	5.98	6.41	6.52	6.70	4.83

3400 N	406.41	406.60	405.87	405.60	405.41
	406.84	406.60	406.35	406.10	405.85
	3.63	3.88	4.13	4.38	4.63
	6.00	6.41	6.54	6.77	4.97

(Sta. 3400N to 35100N)  $\frac{412.91}{412.91}$  (H.I. from 000W to 700W)

3350 N	406.89	406.30	406.03	405.76	405.50
	3.89	4.18	4.45	4.72	4.98

3300N	406.34	406.06	405.78	405.50	405.22
	4.14	4.42	4.70	4.98	5.24

T.P. 4.00 410.98 6.72 406.48

Cont from P-26

Access Road

800	850	900	950	1000	1050
405.52	405.40	890.00			
405.77	405.52	405.29			
4.91	4.96				
4.85	4.98				

CO <sup>24</sup>	CO <sup>26</sup>	
405.36	405.18	405.02
405.68	405.42	405.14
4.80	5.05	5.30
5.02	5.20	5.36
4.90	4.99	

405.19	404.97	404.75	404.83	404.90	404.78
405.60	405.35	405.06	405.06	405.06	405.06
4.80	5.17	5.42	5.42	5.42	5.42
5.19	5.41	5.63	5.55	5.98	5.40

(Sta. 3400N to 35100N)  $\frac{410.38}{410.38}$  (T from 750W to end of Rows)

405.23	404.97	404.63
5.25	5.51	5.85
		5.49

404.94	404.66	404.25	404.29	404.26	404.43
5.84	5.82	6.23	6.19	6.12	6.05

Land Area Grades West  
of Base Line Contd

550      600      650      700      750

800      850      900      950      1000

608.91 W  
End

3600 H      406.56      406.44      See P-39  
663      7.05

3550 H      406.83      406.53      406.23      405.93      405.63  
636      666      696      726      756

413.19  
(Cont. from P. 27)

Land Area Grades West  
of Base Line Contd

1100 1150 1200 1250 1300 1350

3400 N

405.06

3350 N

08.64

3300 N

404.50 250	404.57 243	404.64 236	404.71 229	404.78 222	404.82 218
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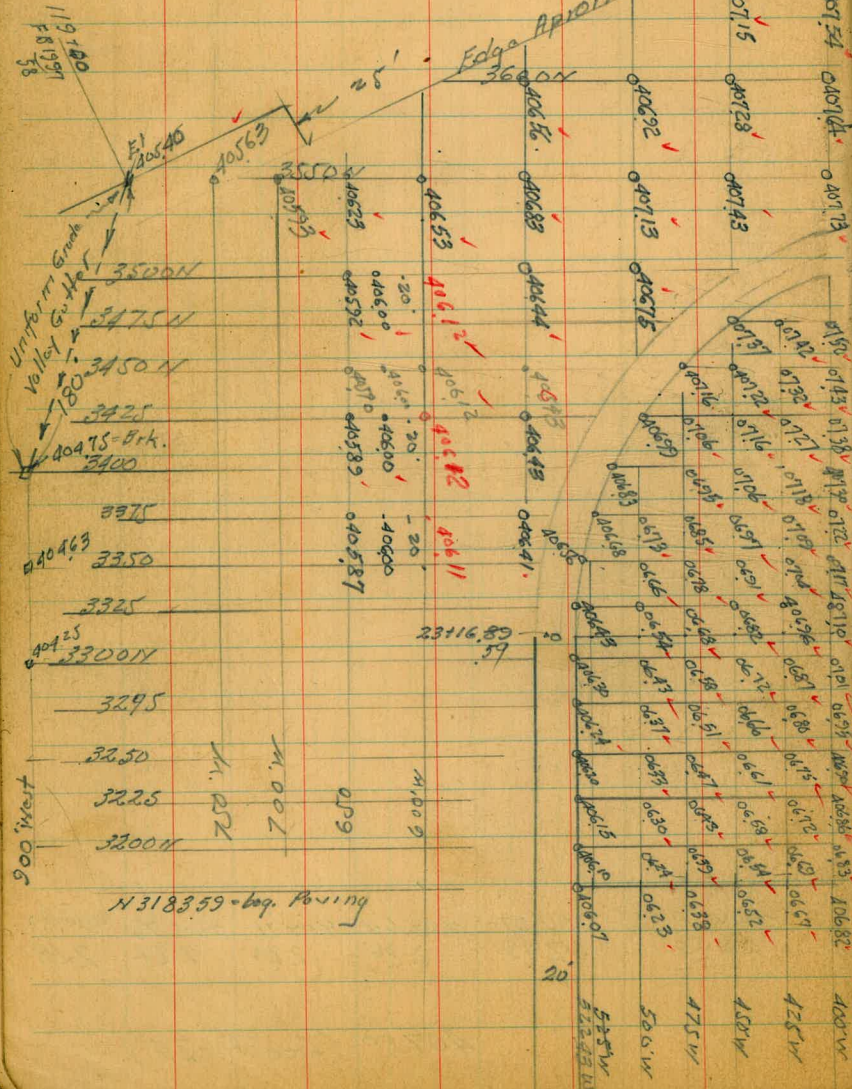
407.00 (See P-24)



# FINISH GRADES - PAVING AREA

Gibbs Airport

Walker  
Johnson  
Page  
Kiley  
1-4-49



~ Finish Grades ~

Parking Area - Sketch P. 31

3300 N  
 350 325  
 F020  
 407.30 407.43  
 407.10  
 5.20

3275 N  
 407.24 407.38

3250 N  
 C017  
 407.19 407.33  
 407.36  
 4.74

3225 N  
 407.15 407.29

3200 N  
 C002  
 407.12 407.27  
 407.14  
 5.16

3183.59 North - Beg. Paved Area  
 Grade  
 407.11 407.25  
 407.11  
 5.19

~ West of Base Line ~

300 275 250 225 200 175 150  
 C027 F056 F0041 C027  
 407.58 407.72 407.87 408.01 408.16 408.31 408.46  
 407.85 407.81 408.12 408.73  
 4.15 4.49 4.18 3.57

407.53 407.67 407.82 407.96 408.11 408.26 408.41

F052v F0041 F001 C014  
 407.47 407.61 407.76 407.91 408.06 408.21 408.36  
 407.45 407.72 408.05 408.50  
 4.85 4.58 4.25 3.80

407.44 407.59 407.75 407.89 408.03 408.17 408.31

F027 F013 F035 C005  
 407.42 407.57 407.72 407.86 408.00 408.14 408.28  
 407.15 407.59 407.65 408.33  
 5.15 4.71 4.65 3.97

F028 F013 F0091 F005  
 407.39 407.53 407.68 407.82 407.97 408.11 408.25  
 407.11 407.85 407.88 408.20  
 5.19 4.75 4.42 4.10

412.30 (See P. 40)

Helim. Finish Grades  
~ Parking Area ~

3300 H

3275 H

3250 H

3225 H

3200 H

3183.59 H

412.30

West of Base Line

33

500 475 450 425 400 375

C 011		C 051		C 012	
406.43	406.58	406.72	406.87	407.01	407.16
406.54		407.23		407.13	
5.76		5.87		5.17	

406.37 406.51 406.66 406.80 406.95 407.09

C 006'		F 009'		C 017'	
406.33	406.47	406.61	406.75	406.90	407.04
406.39		406.52		407.07	
5.91		5.78		5.23	

406.30 406.43 406.58 406.72 406.86 407.00

C 029'		C 006'		F 013'	
406.24	406.39	406.54	406.69	406.83	406.97
406.53		406.60		406.70	
5.77		5.70		5.60	

F 001'		F 004'		F 006'	
406.23	406.38	406.52	406.67	406.82	406.96
406.22		406.48		406.76	
6.08		5.82		5.54	

412.30

Finish Grades

350 325 300

3450 N 407.64 407.75 407.85

3425 N 407.59 407.70 407.82

3400 N 407.53 407.64 407.75

3375 N 407.47 407.59 407.71

3350 N 407.43 407.56 407.68

3325 N 407.39 407.53 407.66

501 412.33

407.32 BM

West of Base Line

275 250 225 200 175 150

34

407.95 408.06 408.16 408.27

407.93 408.03 408.14 408.25 408.36

407.86 407.98 408.10 408.21 408.33 408.45

407.83 407.96 408.08 408.21 408.34 408.46

407.81 407.94 408.07 408.20 408.33 408.46

407.80 407.94 408.08 408.22 408.36 408.50

= 210' Radius FB 20.04  
FB 2010-31 20

Finish Grades

500 475 450 425 400 375 35

3450 N

40722 40732 40743 40754

3425 N

40706 40716 40727 40738 40748

3400 N

40695 40706 40718 40730 40741

3375 N

40673 40685 40697 40709 40722 40734

3350 N

40666 40678 40691 40704 40717 40730

3325 N

40654 40668 40682 40696 40710 40724

375

350

325

300

275

250

225

35+00

157.72

407.82

407.92

408.02

408.11

34+75

407.72

407.82

407.92

408.02

408.12

408.22

425' 400 375

35+00

407.72

34+75

407.42 407.52 407.62

LAND AREA West of  
Base Line

580 500 450 400 350

37004

32293 W  
40810

3650 N

40675 40715 40754 40793

40828 40863 40898 40933

36100

40656 40692 40728 40764 40800

40837 40871 40905 40939 40973 41007

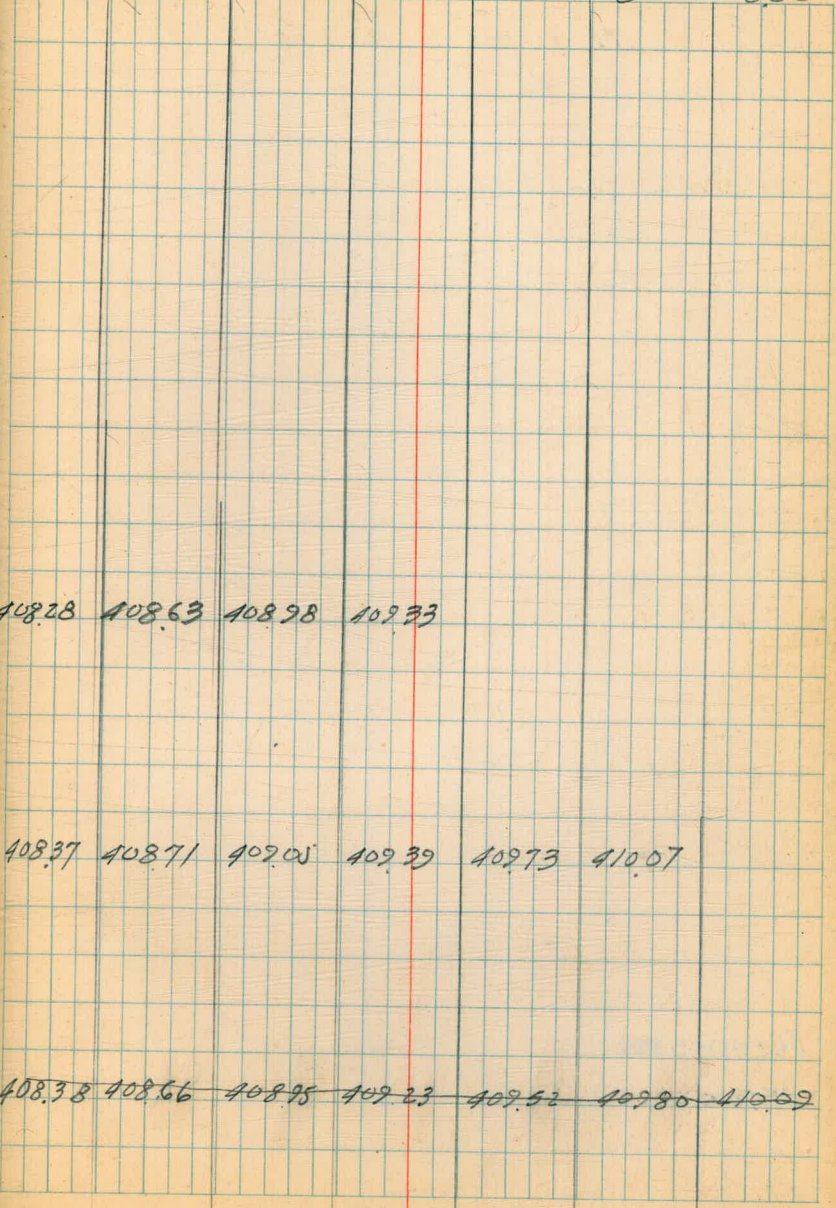
~~35150 N~~

~~40697 40733 40769 40805~~

~~40838 40866 40895 40923 40952 40980 41009~~

Sec P-27-29 3550 N

300 250 200 150 100 50 0.00 38





600 W

36100

3550 W

40620

Gibbs Airport

Parking Area Subgrades  
= 0.33' below Finish Grades as shown P-31

3200 N Cont.

325' W

500' W	475' W	450' W	425' W	400' W	375' W	350' W
405.91	406.06	406.21	406.36	406.50	406.64	406.79

3200 N

406.94

300' W	275' W	250' W	225' W	200' W	175' W	150' W
407.09	407.24	407.39	407.53	407.67	407.81	407.95

31 + 83.59 Cont.

325' W

500' W	475' W	450' W	425' W	400' W	375' W	350' W
--------	--------	--------	--------	--------	--------	--------

405.90	406.05	406.19	406.34	406.49	406.63	406.78
6.43'		6.14'		5.84'		5.55'

31 + 83.59 - Beg. Paving

406.92

300' W	275' W	250' W	225' W	200' W	175' W	150' W
--------	--------	--------	--------	--------	--------	--------

407.06	407.20	407.35	407.49	407.64	407.88	407.92
5.27'		4.98'		4.69'		4.41'

5.01 412.33

407.32 B.M. 210' R

412.33

5.02 412.30 5.40 407.28

5.36 407.32

4.13 412.68 7.20 408.55 4' RT 0100

4.49 415.75 411.26 B.M. #3

R.P. 210' -> chg FB 2010 - 31

Cable Duct

Subgrades - Parking Area  
Cont. from p. 40

3275'N  
325'W 407.05

3250'N Cont.

325

3250'N 407.00

3225'N

325'W

3225'N

406.96

300'W 275'W 250'W 225'W 200'W 175'W 150'W

407.20 407.34 407.49 407.63 407.78 407.93 408.08

500'W 175 150 125 100 75 350'W

406.00 406.14 406.28 406.42 406.57 406.71 406.86  
6.33 6.95 5.76 5.47

300 275 250 225 200 175 150

407.14 407.28 407.43 407.58 407.73 407.88 408.03  
5.19 4.90 4.60 4.30

500'W 475'W 450'W 425'W 400'W 375'W 350'W

405.97 406.10 406.25 406.39 406.53 406.67 406.82

300'W 275'W 250'W 225'W 200'W 175'W 150'W

407.11 407.26 407.42 407.56 407.70 407.84 407.98

- Subgrades - Parking Area  
Cont. from p- 41

42

3325' N Cont.

325' W

500'W	475'	450'	425'	400'	375'	350'W
406.21	406.35	406.49	406.63	406.77	406.91	407.06

3325' N

407.21

300'	275'	250'	225'	200'	175'	150'W
407.33	407.47	407.61	407.75	407.89	408.03	408.17

3300' N Cont.

325' W

500'W	475'	450'	425'	400'	375'	350'W
406.10 6.23	406.25	406.39 5.94	406.54	406.68 5.65	406.83	406.97 5.36

3300' N

407.10

300'	275'	250'	225'	200'	175'	150'W
407.25 5.08	407.39	407.54 4.79	407.75	407.83 4.50	407.98	408.13 4.20

3275' N Cont.

500'W	475'W	450'W	425'W	400'W	375'	350'W
406.04	406.18	406.33	406.47	406.62	406.76	406.91

Subgrades ~ Parking Area  
Cont. from P42

43

325'W  
3400'N 407.31

300	275	250	225	200	175'W	150'W
407.42 4.91	407.58	407.65 4.68	407.77	407.88 4.45	408.00	408.12 4.21
500'W	475	450	425	400	375	350'W

3375'N Cont.

406.40	406.52	406.64	406.76	406.89	407.01	407.14
--------	--------	--------	--------	--------	--------	--------

325'W  
3375'N 407.26

300'W	275'W	250'W	225'	200	175	150'W
407.38	407.50	407.63	407.75	407.88	408.01	408.13

3350'N Cont.

500	475	450	425'W	400'W	375'W	350'W
406.33 6.90	406.45	406.58 5.75	406.71	406.84 5.49	406.97	407.10 5.23

325'W  
3350'N 407.23

300	275	250	225'	200	175'	150'W
407.35 4.98	407.48	407.61 4.74	407.74	407.87 4.46	408.00	408.13 4.20

Subgrades- Parking Area  
Cont. from p 43

44

3475' N  
425'W 400'W  
407.09 407.19  
5.14

3450' N Cont.

3450' N

3425' N Cont.

3425' N

3400' N Cont.

375' 350' 325'W 300'W 275'W 250'W 225'W  
407.29 407.39 407.49 407.59 407.69 407.79 407.89  
7.14 7.14 7.54

450'W 425'W 400'W 375'W  
406.89 406.99 407.10 407.21  
5.44 5.23

350 325 300 275 250 225 200'W  
407.31 407.42 407.52 407.62 407.73 407.86 407.94  
5.02 4.81 4.60 4.39

475 450 425 400 375 350 325'  
406.73 406.83 406.94 407.05 407.15 407.26 407.37

300 275 250 225 200 175'W  
407.49 407.60 407.70 407.81 407.92 408.03

500' 475 450 425 400 375 350'W  
406.62 406.73 406.85 406.97 407.08 407.20  
3.50 5.36 3.13

Subgrades - Parking Area  
Cont. from P-44

2500 N

375'W	350'W	325'W	300'W	275'W
407.39	407.49	407.59	407.69	407.78
	4.84		4.64	

Finish Grades - Segmert Circle  
Gibbs Airport

Walker  
Johnson  
Pope  
Crawford  
4-25-49

INDEXED

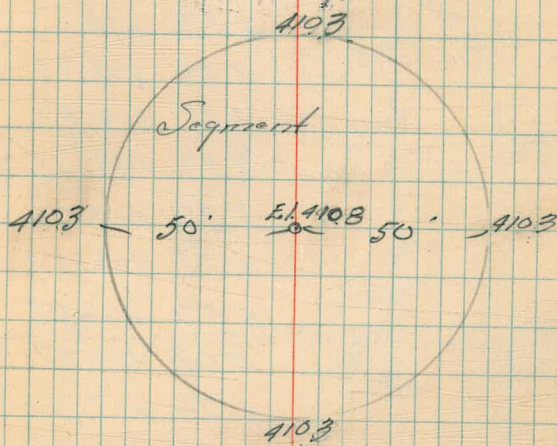
M.K.  
JAN 20 1950

7.71 414.49

406.78

46

Axis - Due North



371  
017 Stake 30' 18100 FB 1957  
29

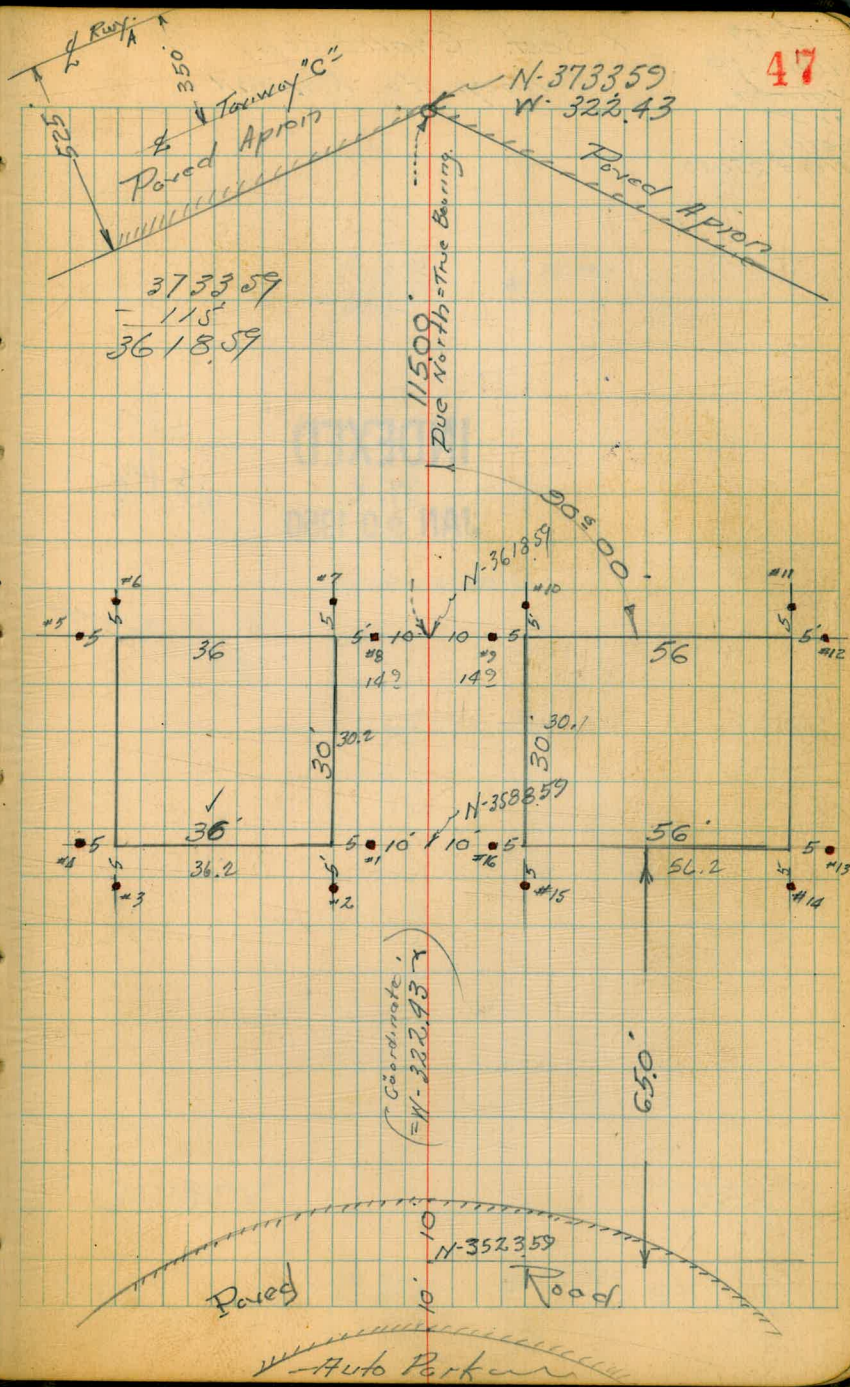


Gibbs Airport  
 Walker Johnson Administration Building  
 Pope Grades & Staking  
 Crawford 7-22-49

• • Paving Stakes Set

Stations	Elev.	Stakes
<b>INDEXED</b>		
M.K. JAN 20 1950		
#16	4.47	408.17
#15	4.39	408.25
#14	3.86	408.78
#13	3.81	408.83
#12	3.89	408.75
#11	3.93	408.71
#10	4.31	408.33
#9	4.39	408.25
#8	4.67	407.97
#7	4.72	407.92
#6	4.88	407.76
#5	4.89	407.75
#4	4.84	407.80
#3	4.67	407.97
#2	4.63	408.01
#1	4.58	408.06

414 412.64 Station 811 on 408.50 Stake

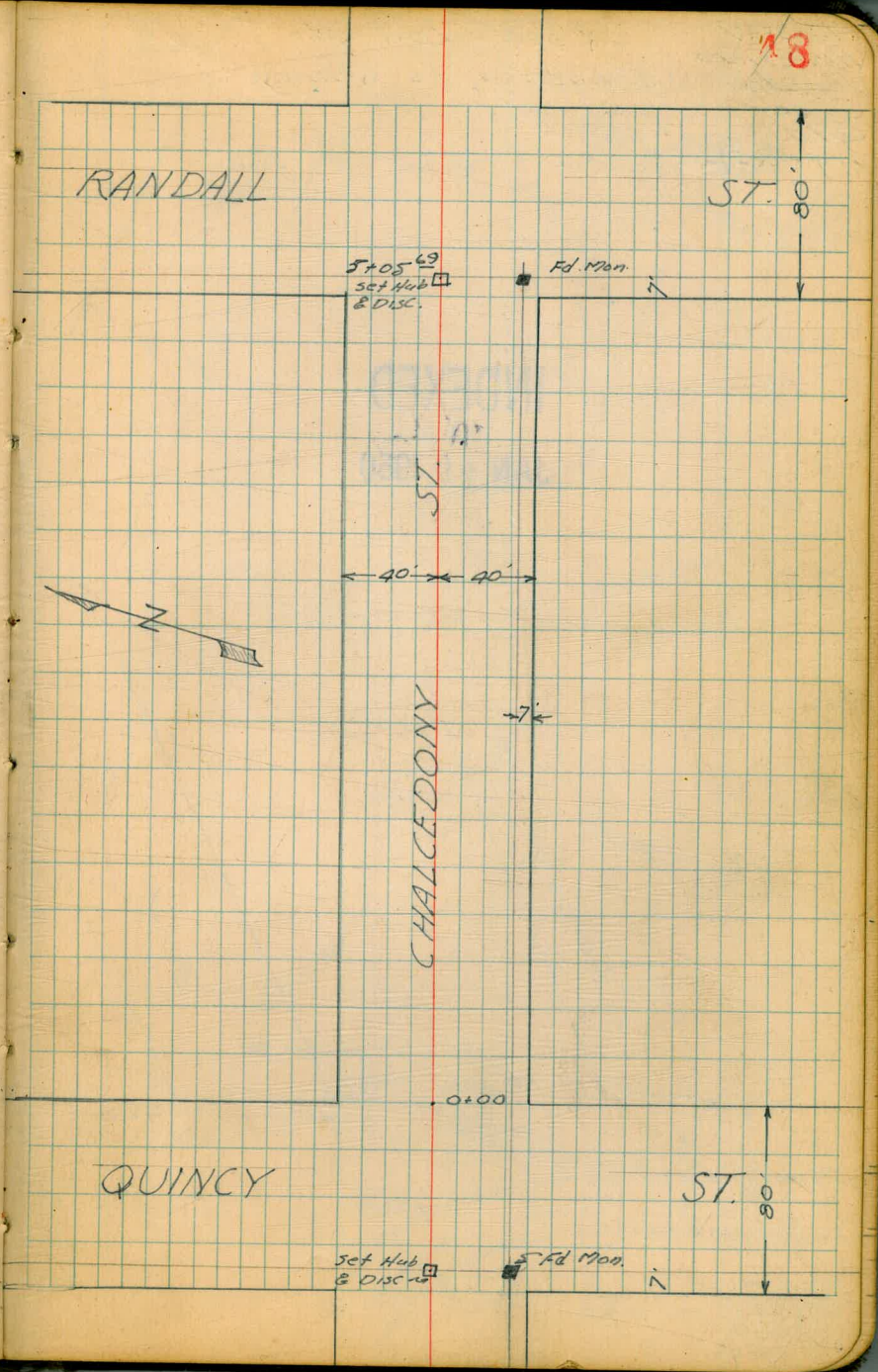


1-11-49  
Hendricks  
Johnson  
Greer  
Cota  
WO# 25020

X Sect. Chalcedony St.  
Quincy to Randall

INDEXED  
W.K.  
JAN 20 1950

checked by  
W.S. Fay



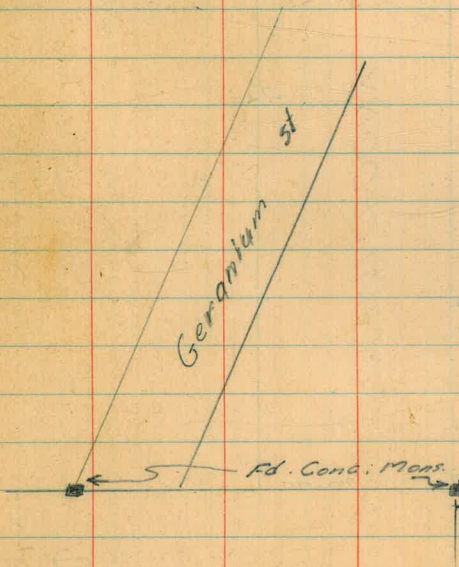
1-13-49  
 Hendricks  
 Johnson  
 Greer  
 Cotg  
 110# 25020

X Sect Law St.  
 Pendelton to Quincy

INDEXED

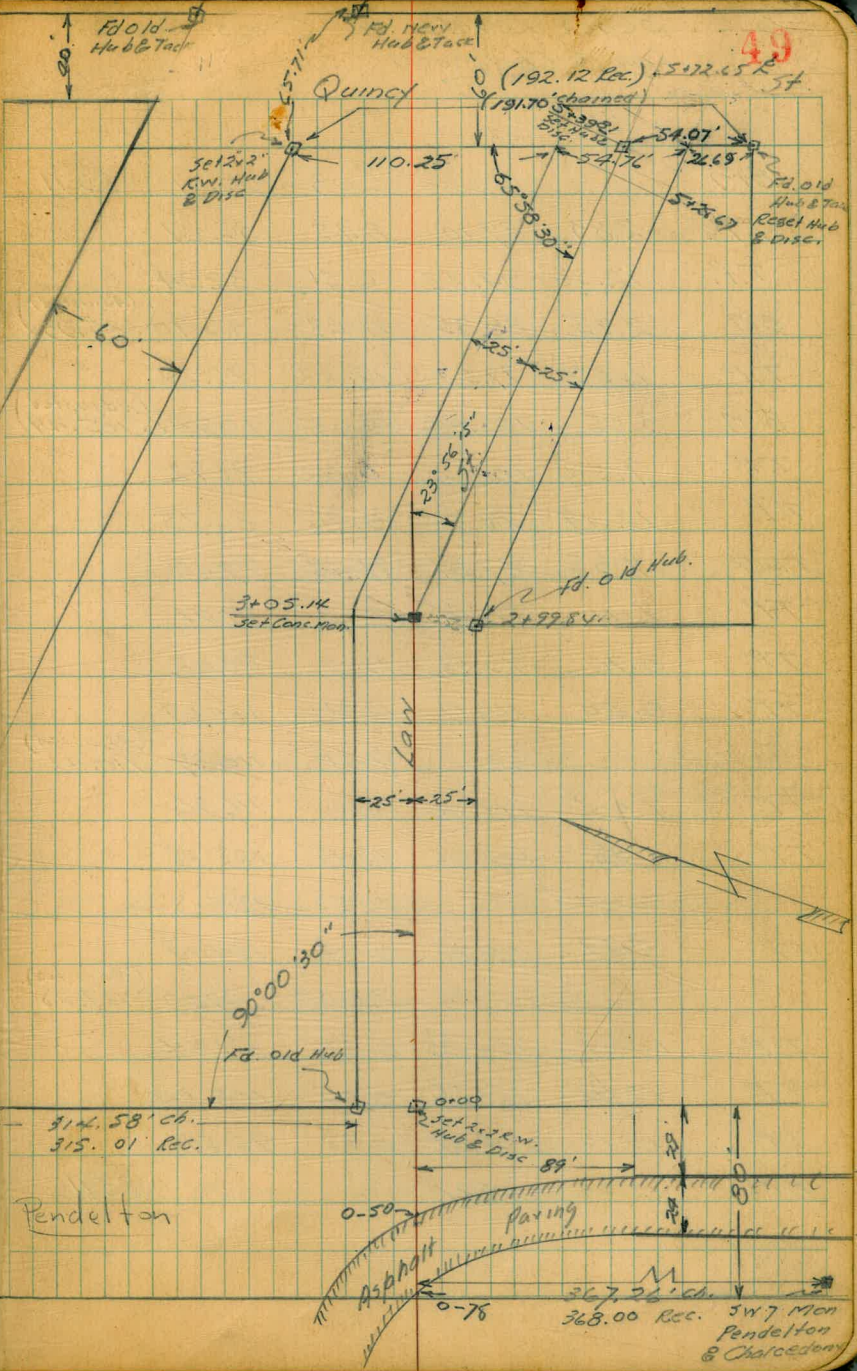
N.K.

JAN 20 1950



Beryl

Geranium St



Bench Levels to Cross Section  
Law & Chalcedony

B.M.			6.03	83.07	83.11
T.P.	2.83	89.10	8.45	86.27	
T.P.	12.38	94.72	6.51	82.34	(Adjusted)
B.M.	2.95	88.85	11.67	85.90	85.93
T.P.	1.33	97.57	12.22	96.24	
B.M.	3.05	108.46	3.05	105.41	(Adjusted) 105.44
T.P.	9.54	108.46	0.02	98.92	
T.P.	12.19	98.94	0.26	86.75	
T.B.M.	7.35	87.01	11.46	77.66	
T.P.	7.41	89.12	12.07	81.71	
T.P.	0.76	93.78	13.17	93.02	
T.P.	0.50	106.19	12.31	105.69	
			7.61	110.39	(Adjusted) 110.41
T.P.	1.04	118.00	12.70	116.96	
T.P.	1.38	129.66	12.48	128.28	
			10.58	130.18	
T.P.	6.57	140.76	0.14	134.19	
			7.06	127.27	(Adjusted) 127.28
T.P.	12.89	134.33	0.12	121.44	
T.P.	12.92	121.56	0.05	108.64	
T.P.	13.10	108.69	0.38	98.59	
B.M.	12.86	95.97		83.11	

S.W. B.P. Diamond & Pendelton

S.W. 7' Men Chalcedony & Randall

S.W. 7' Men Chalcedony & Quincy

On Hub & Law & West Line Quincy St.

Corn. Men L. Point & Law St. Sta. 3+05.14  
(P. 49 this book)

On Hub & Law & East Line Pendelton

S.W. 7' Men. Pendelton & Chalcedony

S.W. B.P. Diamond & Pendelton



1+03

0+93

T.P. 0.45  $\frac{106.57}{1}$  13.10 106.12

0+70

T.P. 0.19  $\frac{119.22}{1}$  12.41 119.03

0+50

T.P. 1.26  $\frac{131.44}{1}$  1195  $\frac{130.18}{1}$

0+10

0+00 East Line Pendelton

$\frac{142.13}{1}$

92.8	88.3	94.4	96.8	103.1	110.2
14.2	18.3	12.2	9.8	23.5	23.5
50	25 at Ditch	8		25	50
93.0	95.5	98.5	100.5	105.5	111.5
13.10	11.1	8.1	6.2	1.0	15.0
50	25	14		25	50
	10.1	10.3	106.57	109.3	
	18.1	16.0	104.9	111.4	116.4
	50	25	14	14	25
			119.22	122.0	
104.5	107.5	108.7	119.22	118.9	122.0
26.8	23.8	22.3	19.4	13.0	9.4
50	25	14	14	25	45
			131.44	134.9	134.5
	115.5	119.5	131.44	134.9	134.5
	26.5	22.6	14.0	7.5	7.5
	50	25	14	20	25
			137.2	134.9	136.1
	118.5	122.1	130.1	135.2	136.1
	23.5	19.5	12.0	6.4	6.0
	57	25	15	15	25
					50
					137.0
					142.13

Lava St. Cont'd.

3+05.14 L. Rt. (Section taken on Bisector)

3+00

T.P. 12.01 117.48 1.10 105.47

2+58

2+00

1+58

1+24

106.57

R

122.5	118.5	110.5	103.5
28.7	20.7	7.1	14.4
50	25.5	25.5	25.5
	116.2	109.2	107.2
	0.2	2.2	9.1
	25	9	25
			108.2
			11
			21.7
			50
120.5	111.5	117.48	101.5
<del>114.0</del>	114.2	<del>113.1</del>	97.8
50	25	25	25
			13.4
			16.8
			20.7
			21.4
			Ditch
108.5	99.5	95.5	92.5
91.0	96.8	93.2	91.2
21.0	6.8	11.1	14.1
50	25	10	15.2
			18.5
			18.5
			21.2
			16.1
			Ditch
102.5	96.8	93.2	91.2
4.1	9.8	12.7	15.4
50	25	15	20.0
			17.5
			13.0
			9.3
			Ditch
92.6	94.2	92.6	92.6
12.4	14.0	14.2	18.5
50	34	25	15
			13.1
			Ditch
			90.5
			96.5
			100.5
			6.1
			50

106.57

5+2867 P. Cor. on Lt. (Rt. Ls. to k Law)

4+86

T.P. 0.68  $\frac{92.82}{1}$  12.79 92.14

4+30

4+00

T.P. 0.16  $\frac{104.93}{1}$  12.71 104.77

3+70

3+30

$\frac{117.48}{1}$

98.5	97.5	92.9	77.7	74.1	71.5	74.5	78.0
45.7	51.1	9.9	15.1	18.7	21.3	18.1	14.8
50	25	14		12	17	25	50
					Ditch		
	98.5	89.0	80.5	76.5	75.3	72.9	75.4
	46.1	38.8	12.2	16.2	17.5	19.9	17.4
	50	25		12	21	26	34
					Ditch		50
	104.9	96.0	92.82	82.5	78.5	75.1	77.1
	0.10	8.9	17.1	22.0	26.7	29.8	27.8
	50	25		16	25	28	34
					Ditch		50
	110.1	102.5	94.5	87.5	84.9	80.1	78.5
	45.1	2.7	10.3	17.7	20.0	24.8	26.1
	50	25		20	25	38	50
							28 (arch)
	115.8	113.9	108.8	102.1	104.93	90.5	84.5
	17.1	15.1	9.1	15.4	18.0	27.0	23.0
	50	25	9		25	50	10
	118.2	114.4	113.2	107.5	101.2	94.4	
	41.4	3.1	4.1	7.9	16.3	23.1	
	50	25	11		25	46	

$\frac{117.48}{1}$



TBM. 9.25 77.67 77.66

5+72.65 Intersection of Quincy (Section R.L.S to Law)

5+50.95 P. Cor. on Rt. (R.L.S to Law)

5+39.81 W. Line Quincy (Section R.L.S to Law)

T.P. 3.19 87.02 899 83.83  
 92.82  
 ✓

Hub on Law West Line Quincy (P50 this book)

99.5	80.8	78.5	76.2	78.3	79.5
+6.7	12.0	14.6	16.8	14.5	11.0
25	12	18	20	50	50

104.8	93.8	82.7	79.2	76.8	79.5	79.8	81.8
+12.0	+1.0	10.1	12.9	16.0	13.0	13.0	11.0
50	25	10	10	17	22	25	50

104.1	93.8	83.5	80.5	77.1	80.0
+11.3	+1.0	9.1	12.1	15.7	12.8
50	25	10	10	15	25

Ditch

92.82  
 ✓

1-17-80 Levels Chalcedony St  
 Hendricks Quincy to Randall  
 NO# 25020 (Sketch P. 48)

0+33

0+20

0+00 East Line Quincy

0-40 & Quincy

0-48

0-80 W. Line Quincy

BM 2.74  $\frac{108.18}{108.15}$

$\frac{105.44}{105.44}$

56

80.2	83.2	91.2	95.2	98.2	98.2	101.2	101.2	100.2	101.2	101.2
27 <sup>K</sup>	24 <sup>K</sup>	17 <sup>0</sup>	12 <sup>100</sup>	9 <sup>100</sup>	8 <sup>100</sup>	10 <sup>10</sup>	7 <sup>0</sup>	8 <sup>1</sup>	6 <sup>8</sup>	6 <sup>8</sup>
50	40	19	12	8	15	26	45	50	60	60
84.2	87.2	96.2	99.2	99.2	101.2	101.2	103.2	103.2	103.2	103.2
23 <sup>9</sup>	21 <sup>1</sup>	11 <sup>1</sup>	9 <sup>0</sup>	8 <sup>6</sup>	6 <sup>18</sup>	6 <sup>7</sup>	5 <sup>1</sup>	4 <sup>15</sup>	4 <sup>15</sup>	4 <sup>15</sup>
50	40	10	9	6	13	27	28	40	50	50
88.2	90.2	92.2	97.2	99.2	100.2	101.2	102.2	105.2	105.2	104.2
17 <sup>8</sup>	17 <sup>3</sup>	15 <sup>K</sup>	11 <sup>10</sup>	9 <sup>10</sup>	7 <sup>1</sup>	7 <sup>1</sup>	5 <sup>4</sup>	3 <sup>1</sup>	3 <sup>12</sup>	3 <sup>15</sup>
50	40	27	11	9	7	16	17	34	40	50
95.2	97.2	98.2	101.2	101.2	101.2	103.2	105.2	104.2	104.2	104.2
12 <sup>7</sup>	11 <sup>12</sup>	9 <sup>9</sup>	6 <sup>11</sup>	5 <sup>9</sup>	4 <sup>8</sup>	3 <sup>0</sup>	3 <sup>12</sup>	3 <sup>K</sup>	3 <sup>11</sup>	3 <sup>11</sup>
50	40	33	12	9	2	5	26	40	50	50
96.2	98.2	102.2	102.2	102.2	103.2	105.2	105.2	105.2	104.2	104.2
11 <sup>5</sup>	9 <sup>11</sup>	6 <sup>1</sup>	5 <sup>1</sup>	5 <sup>1</sup>	2 <sup>1</sup>	2 <sup>7</sup>	3 <sup>11</sup>	3 <sup>11</sup>	3 <sup>11</sup>	3 <sup>11</sup>
50	40	29	18	12	2	22	40	50	50	50
103.2	105.2	106.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2
2 <sup>8</sup>	2 <sup>11</sup>	1 <sup>7</sup>	2 <sup>7</sup>	2 <sup>10</sup>	3 <sup>0</sup>	2 <sup>11</sup>	2 <sup>10</sup>	2 <sup>10</sup>	2 <sup>9</sup>	2 <sup>9</sup>
50	40	33	16	10	2	6	40	50	50	50

SW 7' Mon. Chalcedony & Quincy (250 this Br.)

1+80

1+50

TP.

0.15

70.74  
~~70.71~~  
✓

12.84

70.59  
~~70.56~~

1+20

1+00

TP.

0.52

83.43  
~~83.40~~  
✓

13.08

82.91  
~~82.88~~

0+70

TP

1.10

95.99  
~~95.96~~  
✓

13.29

94.89  
~~94.86~~

0+40

51.801  
~~51.801~~  
✓

61	50	28	88	37	50
61.8	60.5	64.2	61.2	62.2	64.2
89	6	6	71	6.9	1.6
60	50	40	71	19	40
Ditch					
20	18	16	14	12	10
62.5	64.2	66.5	69.2	71.2	75.2
79	68	40	44	15	40
Ditch					
68.2	69.2	70.2	74.2	78.2	82.2
14.7	14.4	13.4	8.5	5.0	1.4
50	40	27	8.5	23	40
73.2	75.2	76.2	83.2	90.2	92.2
22	20	20	20	20	20
50	40	36	13	8.5	4.3
77.2	81.2	90.2	95.2	94.2	96.2
30	26	18	15	13	11
50	40	10	15	7	15
77.2	81.2	90.2	95.2	94.2	96.2
30	26	18	15	13	11
50	40	10	15	7	15
77.2	81.2	90.2	95.2	94.2	96.2
30	26	18	15	13	11
50	40	10	15	7	15

108.8  
~~108.8~~  
✓

3+40

T.P. 12.73  $\frac{82.15}{\lambda}$  1.32 69.42  
 $\frac{82.12}{\lambda}$  69.39

2+90

2+70

2+30

2+00

1+90 ditch

$\frac{70.74}{\lambda}$

70 <sup>10</sup>	71 <sup>5</sup>	72 <sup>5</sup>	73 <sup>5</sup>	74 <sup>5</sup>	75 <sup>5</sup>	76 <sup>5</sup>	77 <sup>5</sup>	78 <sup>5</sup>	79 <sup>5</sup>	80 <sup>5</sup>
50	40	31	20	15	8	11	16	26	40	50
	69 <sup>9</sup>	68 <sup>0</sup>	66 <sup>2</sup>	64 <sup>2</sup>	60 <sup>5</sup>	59 <sup>3</sup>	58 <sup>2</sup>	58 <sup>2</sup>	58 <sup>1</sup>	58 <sup>1</sup>
		64 <sup>8</sup>	63 <sup>8</sup>	61 <sup>5</sup>	60 <sup>5</sup>	59 <sup>3</sup>	58 <sup>2</sup>	58 <sup>2</sup>	58 <sup>1</sup>	58 <sup>1</sup>
		5 <sup>9</sup>	6 <sup>9</sup>	9 <sup>2</sup>	10 <sup>1</sup>	11 <sup>2</sup>	12 <sup>0</sup>	12 <sup>0</sup>	12 <sup>6</sup>	12 <sup>6</sup>
		50	40	16	10	26	40	57	57	57
	68 <sup>5</sup>	67 <sup>0</sup>	66 <sup>2</sup>	63 <sup>2</sup>	61 <sup>2</sup>	62 <sup>0</sup>	57 <sup>2</sup>	58 <sup>6</sup>	59 <sup>1</sup>	59 <sup>1</sup>
70 <sup>15</sup>	37	40	70	84	87	13 <sup>0</sup>	12 <sup>1</sup>	11 <sup>6</sup>	11 <sup>6</sup>	11 <sup>6</sup>
50	40	35	13	11	8	35	40	50	50	50
						Ditch	Ditch	Ditch	Ditch	Ditch
	68 <sup>1</sup>	67 <sup>1</sup>	62 <sup>8</sup>	61 <sup>2</sup>	61 <sup>1</sup>	60 <sup>5</sup>	59 <sup>2</sup>	60 <sup>5</sup>	60 <sup>5</sup>	60 <sup>5</sup>
70 <sup>15</sup>	36	29	33	36	36	10 <sup>2</sup>	11 <sup>2</sup>	10 <sup>1</sup>	9 <sup>9</sup>	10 <sup>11</sup>
50	40	8	3	11	11	11	19	30	40	50
							Ditch	Ditch	Ditch	Ditch
	68 <sup>5</sup>		60 <sup>4</sup>	60 <sup>5</sup>	60 <sup>5</sup>	60 <sup>5</sup>	60 <sup>5</sup>	61 <sup>0</sup>	60 <sup>8</sup>	60 <sup>8</sup>
70	50		10 <sup>15</sup>	10 <sup>12</sup>	10 <sup>12</sup>	10 <sup>14</sup>	9 <sup>8</sup>	9 <sup>7</sup>	8 <sup>19</sup>	8 <sup>19</sup>
			Ditch	Ditch	Ditch	Ditch	Ditch	Ditch	Ditch	Ditch

$\frac{70.74}{\lambda}$

5+3869 Q Randall

4+9869 W Line Randall St.

4+50

7P

12.34

93.85

~~82.92~~

0.64

81.51

~~81.48~~

4+20

4+00

3+67

82.15  
~~82.12~~

80	0.8	81.5	50	71.6	83.8	50	71.7	86.2	50	80.1	85.9	50	80.1	86.2	50	80.1	86.2
60	1.1	80.5	40	70.8	83.0	40	70.8	85.9	40	70.8	85.9	40	70.8	85.9	40	70.8	85.9
20	2.2	79.5	26	72.5	78.5	15	72.5	83.2	15	72.5	83.2	15	72.5	83.2	15	72.5	83.2
0	4.9	77.3	10	64.8	75.8	10	64.8	83.2	10	64.8	83.2	10	64.8	83.2	10	64.8	83.2
7	7.4	74.8	15	60.6	75.8	22	60.6	81.2	22	60.6	81.2	22	60.6	81.2	22	60.6	81.2
40	21.6	60.6	26	58.1	75.8	40	58.1	81.2	40	58.1	81.2	40	58.1	81.2	40	58.1	81.2
50	24.1	58.1	40	55.1	75.8	50	55.1	81.2	50	55.1	81.2	50	55.1	81.2	50	55.1	81.2
			50	52.1	75.8	50	52.1	81.2	50	52.1	81.2	50	52.1	81.2	50	52.1	81.2
			50	49.1	75.8	50	49.1	81.2	50	49.1	81.2	50	49.1	81.2	50	49.1	81.2
			50	46.1	75.8	50	46.1	81.2	50	46.1	81.2	50	46.1	81.2	50	46.1	81.2
			50	43.1	75.8	50	43.1	81.2	50	43.1	81.2	50	43.1	81.2	50	43.1	81.2
			50	40.1	75.8	50	40.1	81.2	50	40.1	81.2	50	40.1	81.2	50	40.1	81.2
			50	37.1	75.8	50	37.1	81.2	50	37.1	81.2	50	37.1	81.2	50	37.1	81.2
			50	34.1	75.8	50	34.1	81.2	50	34.1	81.2	50	34.1	81.2	50	34.1	81.2
			50	31.1	75.8	50	31.1	81.2	50	31.1	81.2	50	31.1	81.2	50	31.1	81.2
			50	28.1	75.8	50	28.1	81.2	50	28.1	81.2	50	28.1	81.2	50	28.1	81.2
			50	25.1	75.8	50	25.1	81.2	50	25.1	81.2	50	25.1	81.2	50	25.1	81.2
			50	22.1	75.8	50	22.1	81.2	50	22.1	81.2	50	22.1	81.2	50	22.1	81.2
			50	19.1	75.8	50	19.1	81.2	50	19.1	81.2	50	19.1	81.2	50	19.1	81.2
			50	16.1	75.8	50	16.1	81.2	50	16.1	81.2	50	16.1	81.2	50	16.1	81.2
			50	13.1	75.8	50	13.1	81.2	50	13.1	81.2	50	13.1	81.2	50	13.1	81.2
			50	10.1	75.8	50	10.1	81.2	50	10.1	81.2	50	10.1	81.2	50	10.1	81.2
			50	7.1	75.8	50	7.1	81.2	50	7.1	81.2	50	7.1	81.2	50	7.1	81.2
			50	4.1	75.8	50	4.1	81.2	50	4.1	81.2	50	4.1	81.2	50	4.1	81.2
			50	1.1	75.8	50	1.1	81.2	50	1.1	81.2	50	1.1	81.2	50	1.1	81.2

82.15  
~~82.12~~

St 82

BM

7.88

~~8597~~ 8593  
~~8594~~ 8590

St 76

St 47

93.85  
~~93.82~~

Sw. 7' Mon. Chalcedony & Randall (R. 50)

92.0	91.0	87.0	83.0	82.0
1.9	2.9	6.2	10.7	11.6
50	40	20	40	50
2.15	3.18	6.15	10.00	12.12
91.5	90.0	87.5	83.5	81.7
2.15	3.18	6.15	10.00	12.12
50	40	20	40	50
0.10	2.11	4.17	5.55	11.22
40	30	26	32	38
93.9	90.5	87.2	88.4	82.8
2.11	3.11	4.17	5.55	11.22
30	20	26	32	38
91.8	81.8	81.8	81.8	81.8
12.12	12.12	12.12	12.12	12.12
50	50	50	50	50

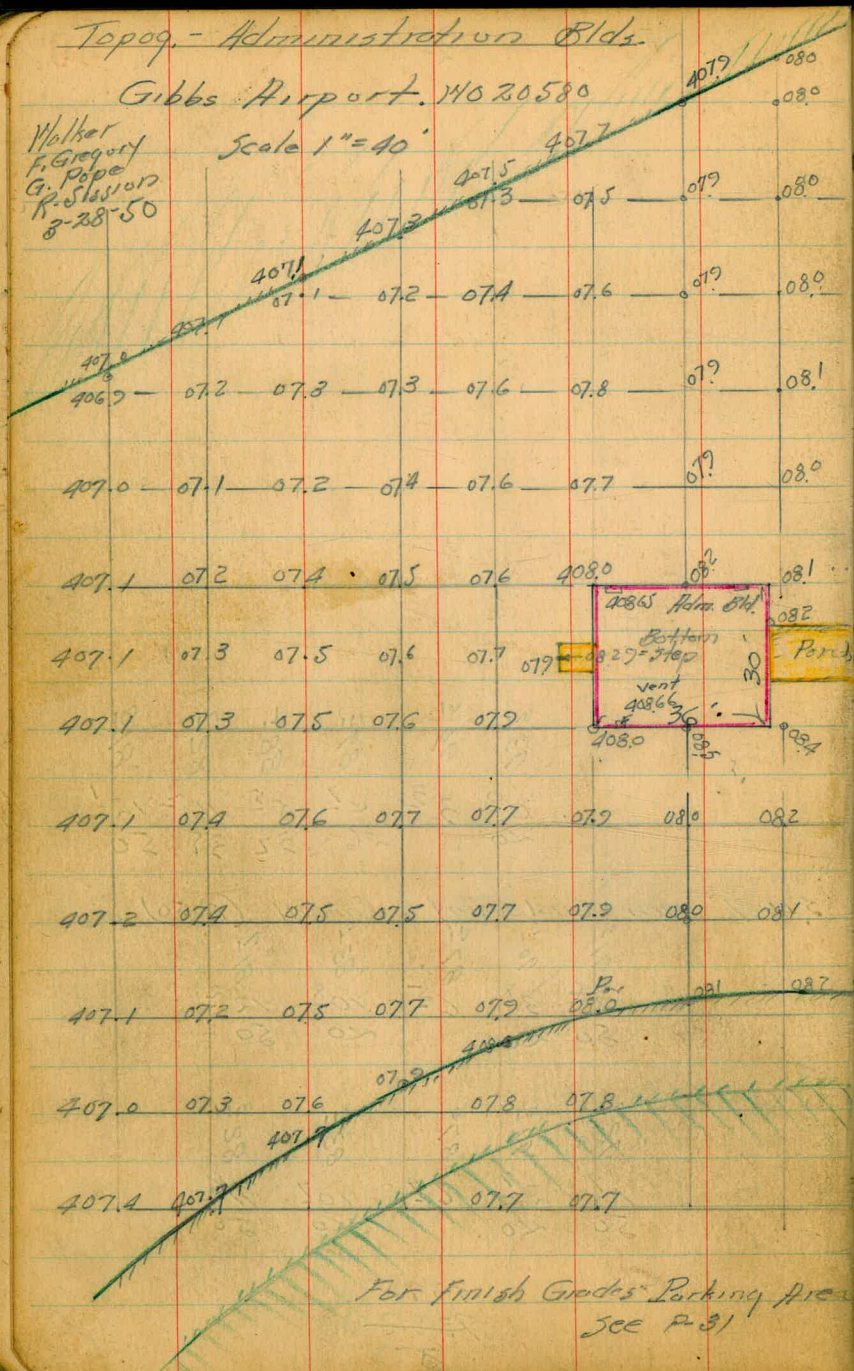
93.95  
~~93.82~~

Topog. - Administration Bldg.

Gibbs Airport. 14030580

Scale 1" = 40'

Walker  
F. Gregory  
G. Pope  
R. Slavov  
3-28-50

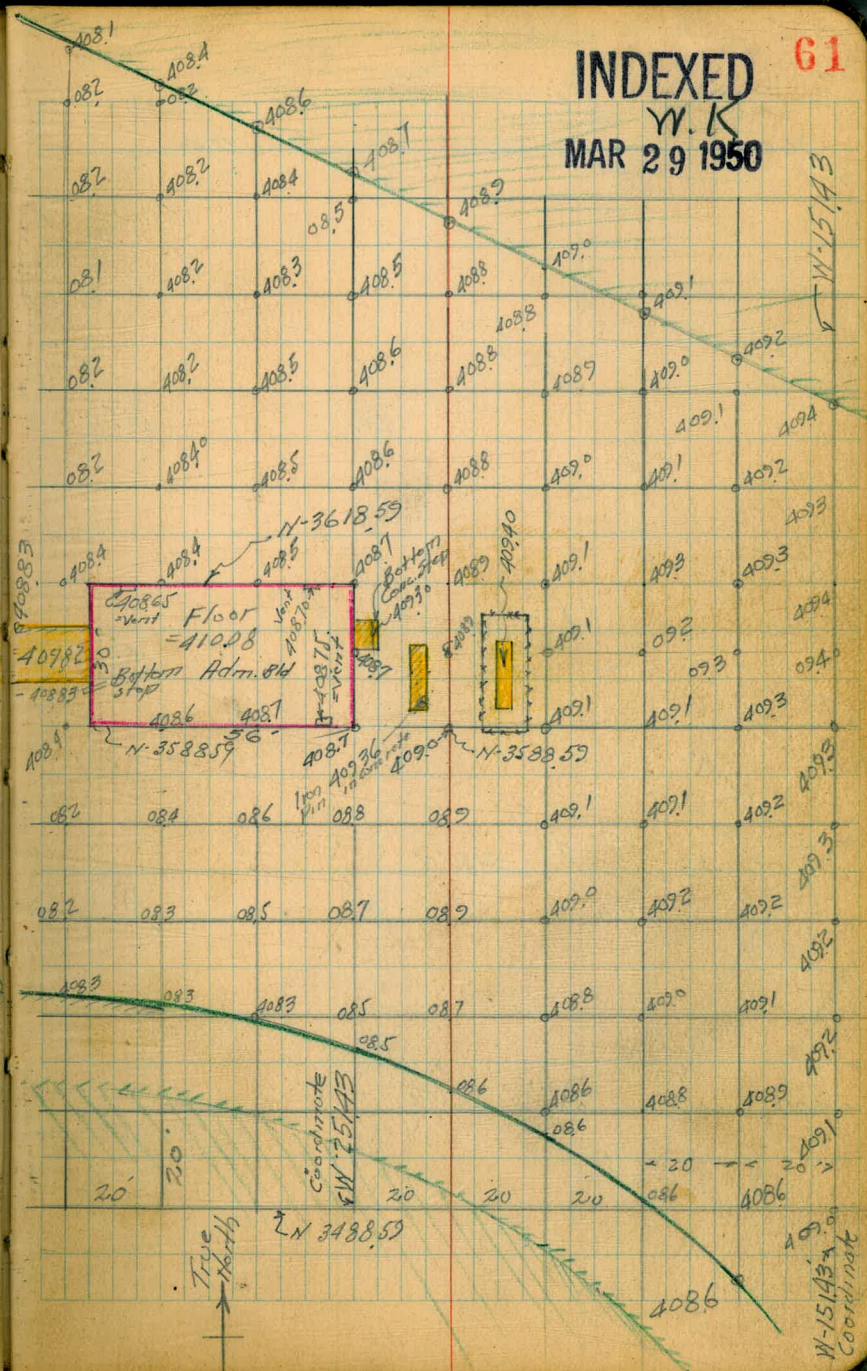


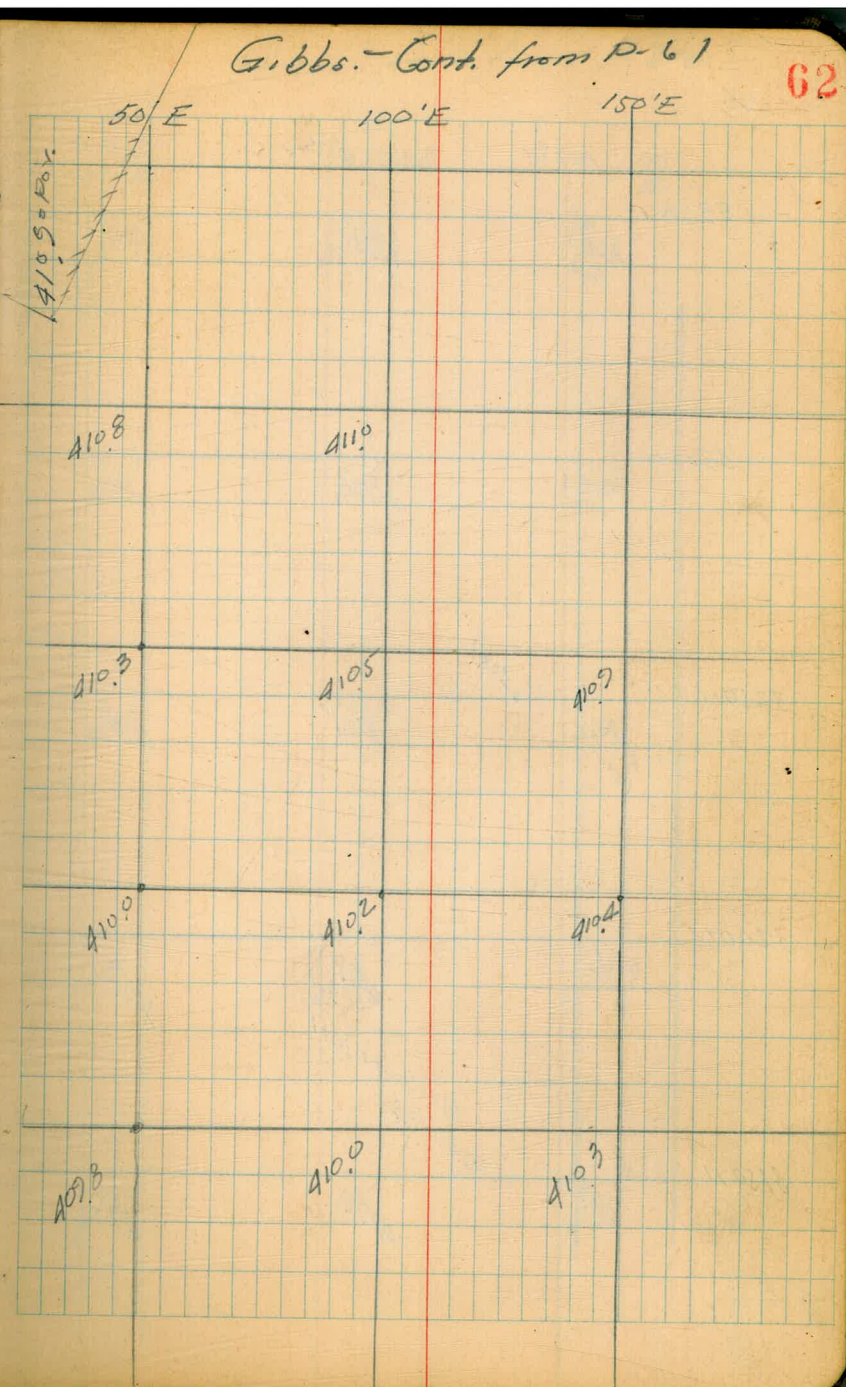
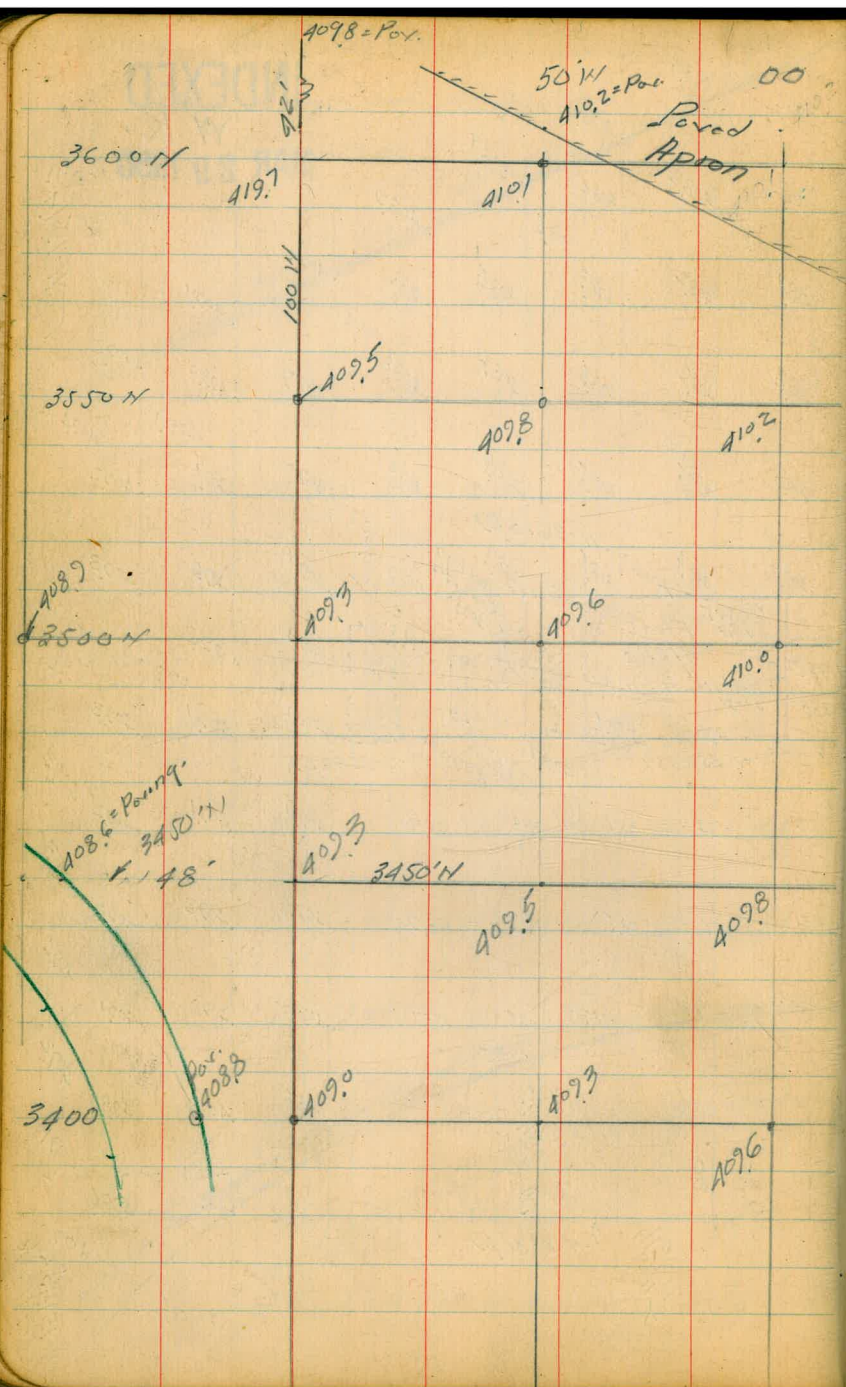
INDEXED

61

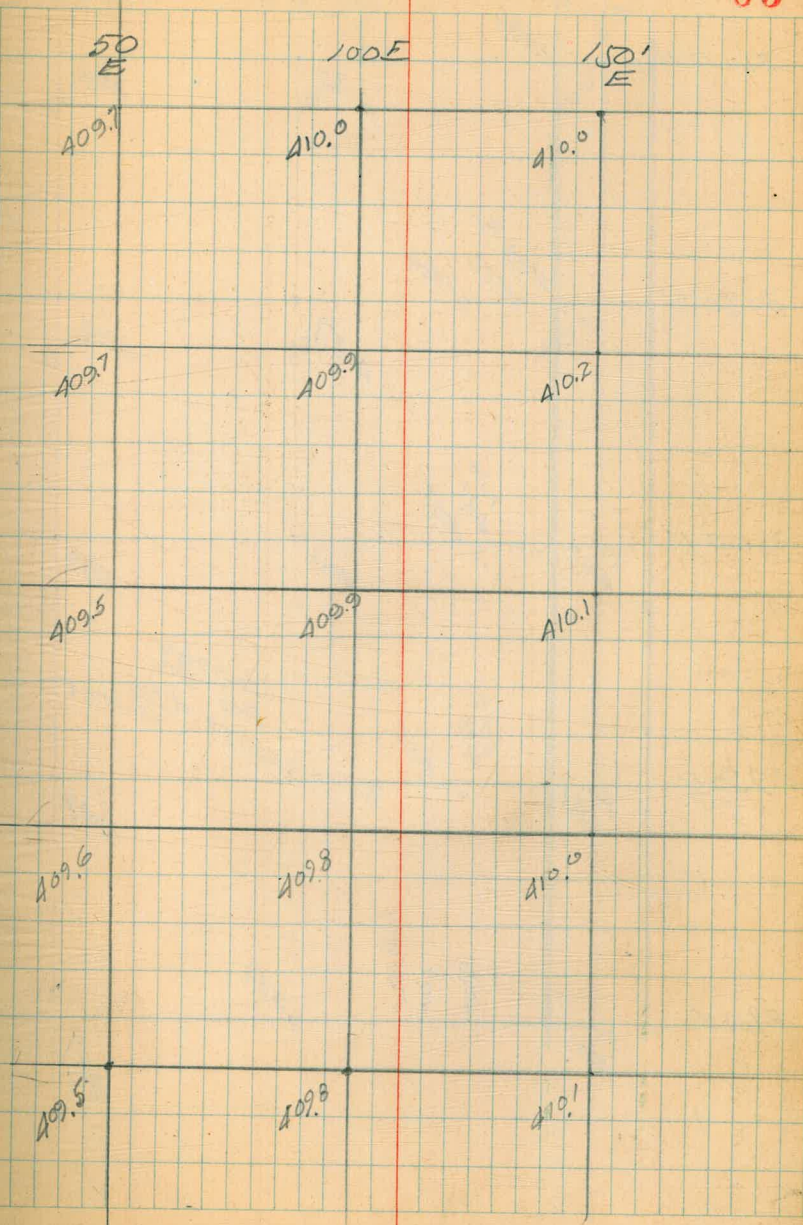
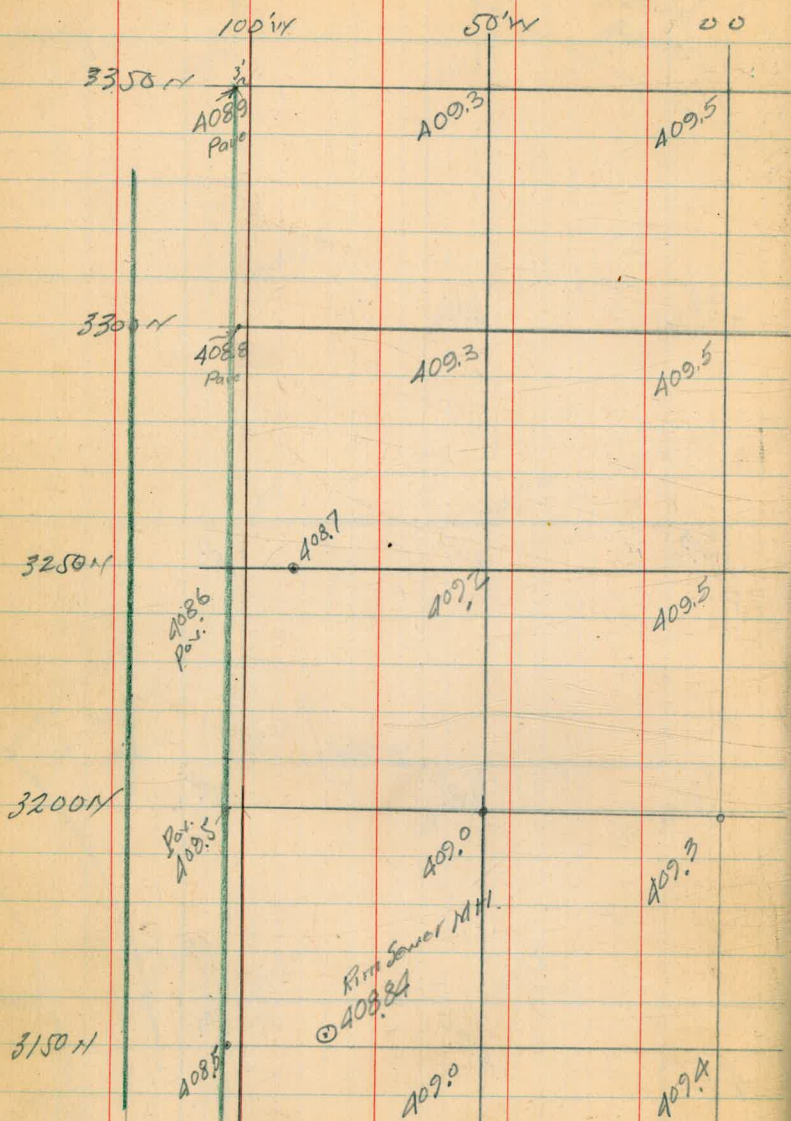
W. K.

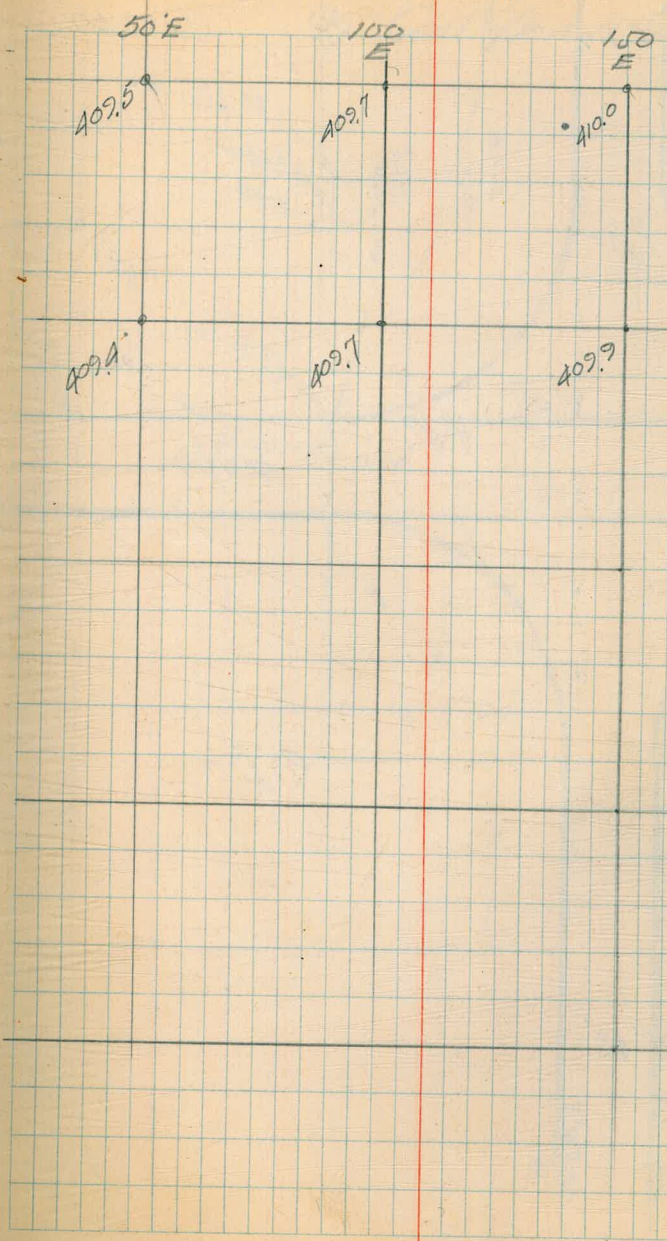
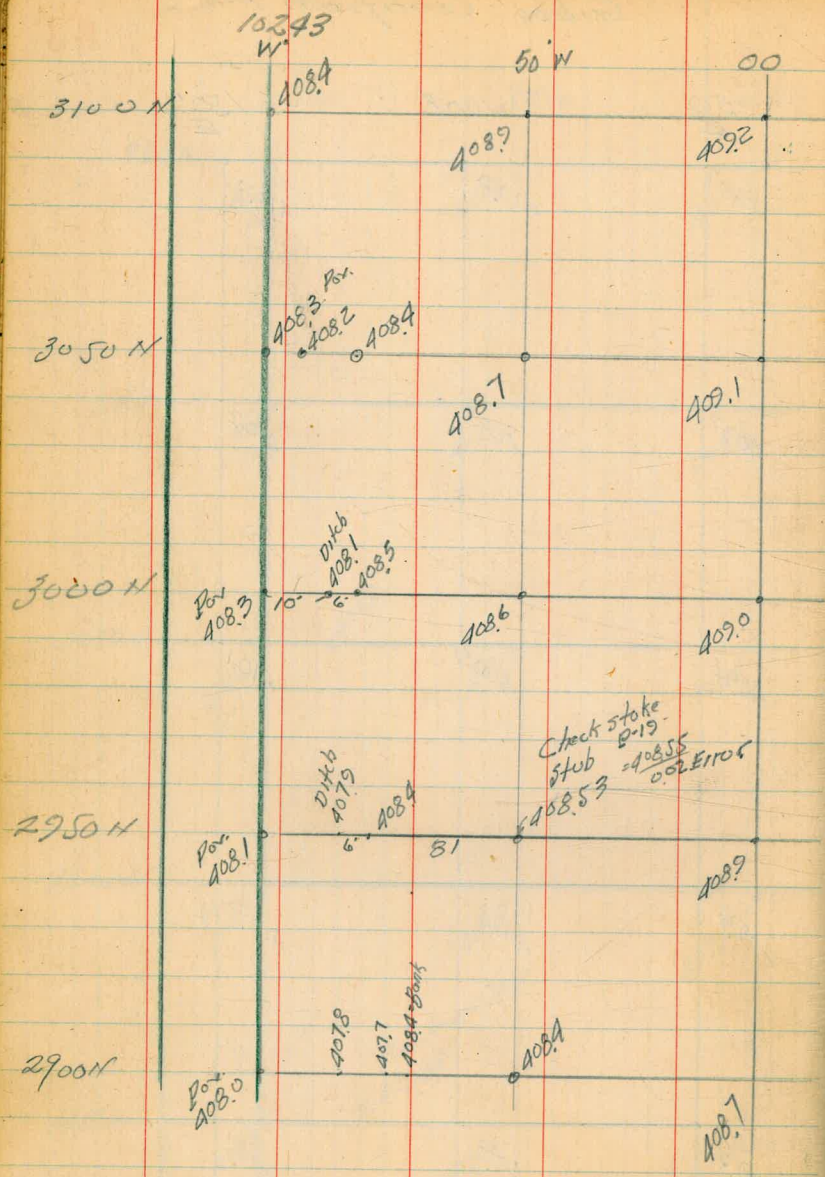
MAR 29 1950

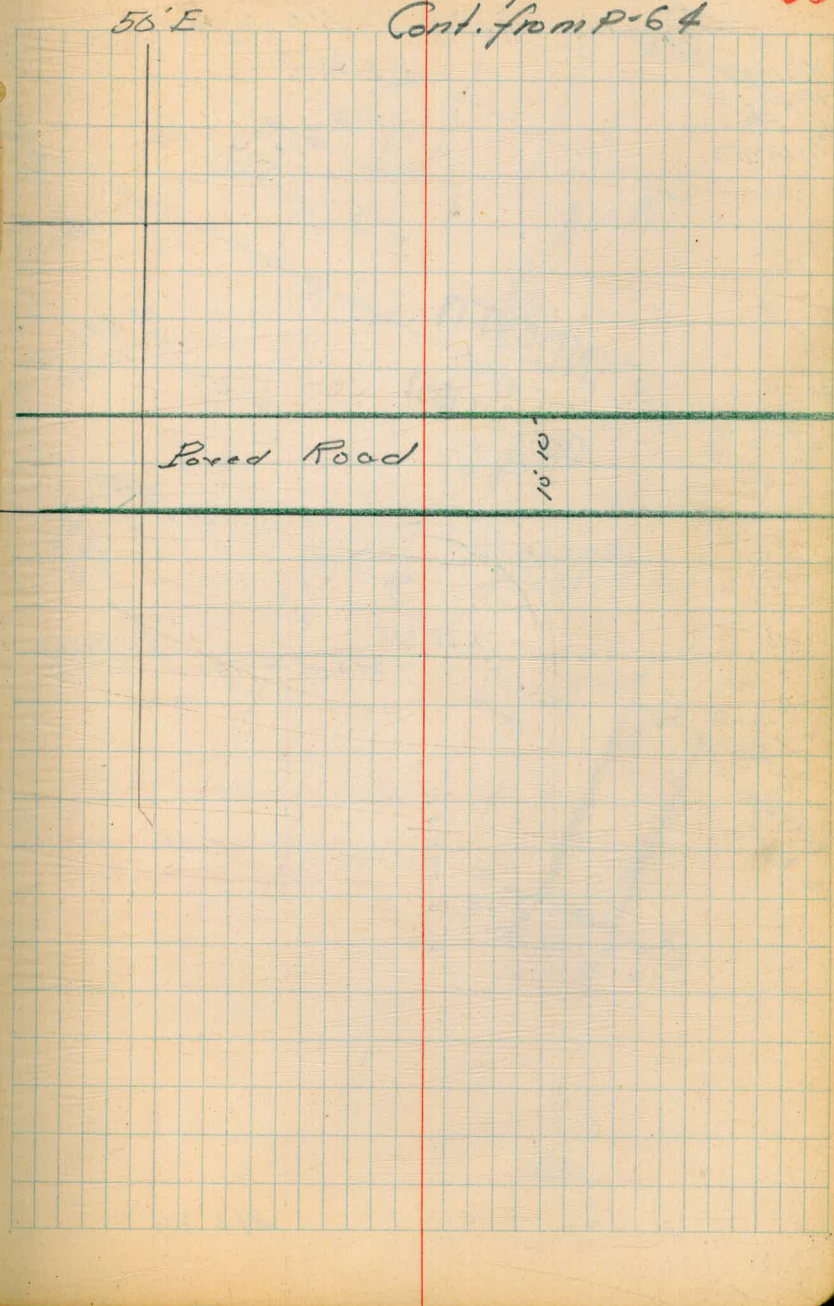
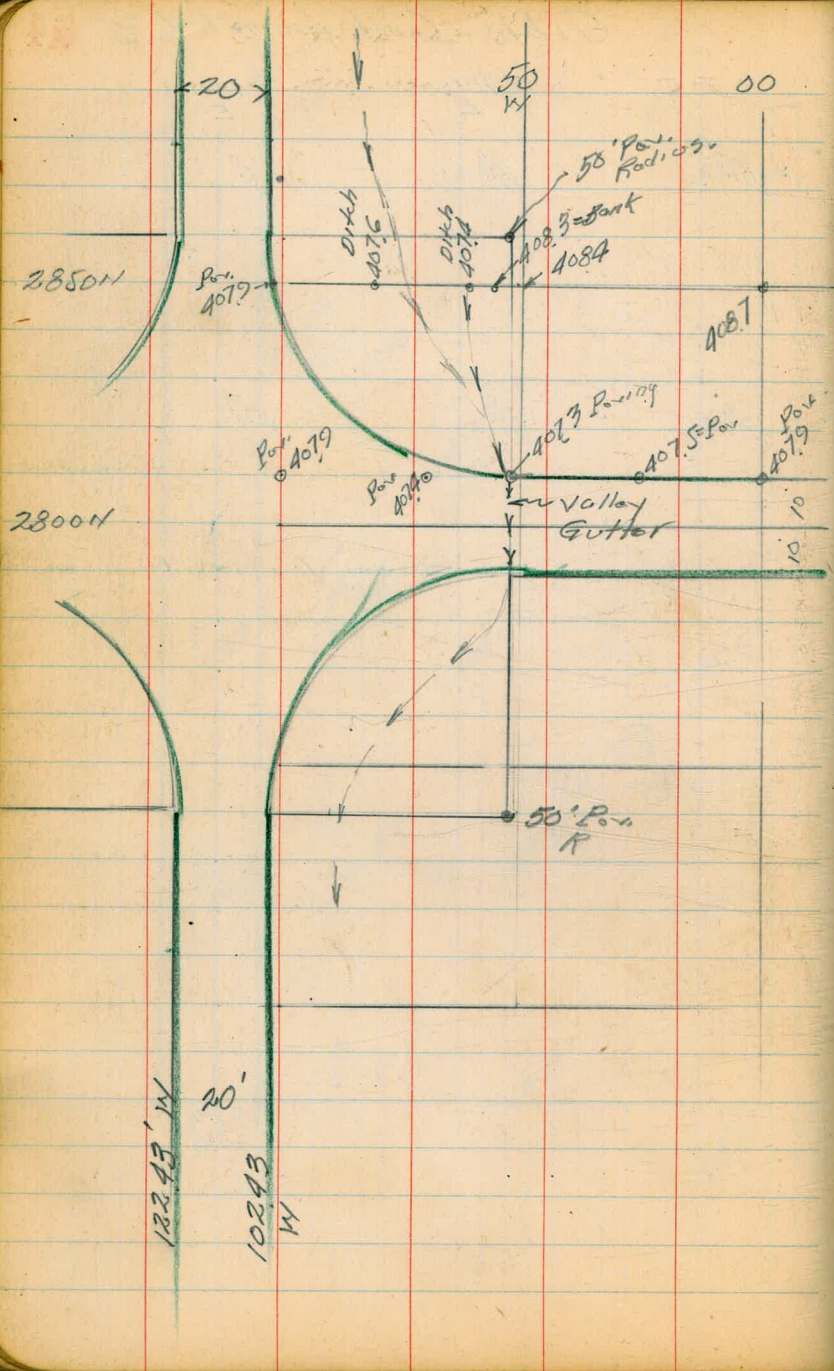






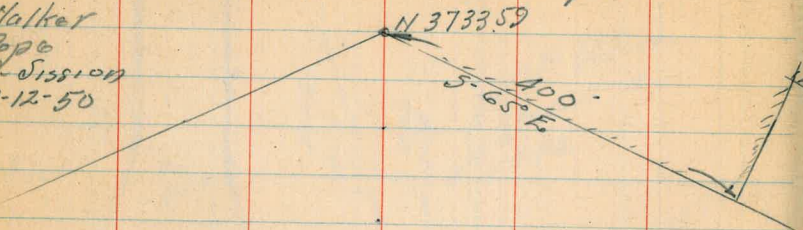






Gibbs Airport  
Layout Proposed Hanger

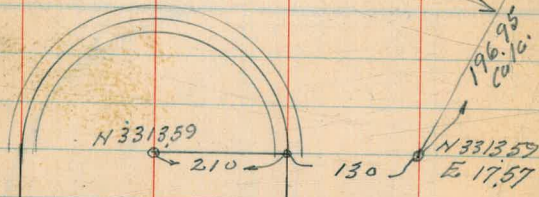
Walker  
Rope  
R. Sission  
7-12-50



INDEXED  
OCT 4 1951

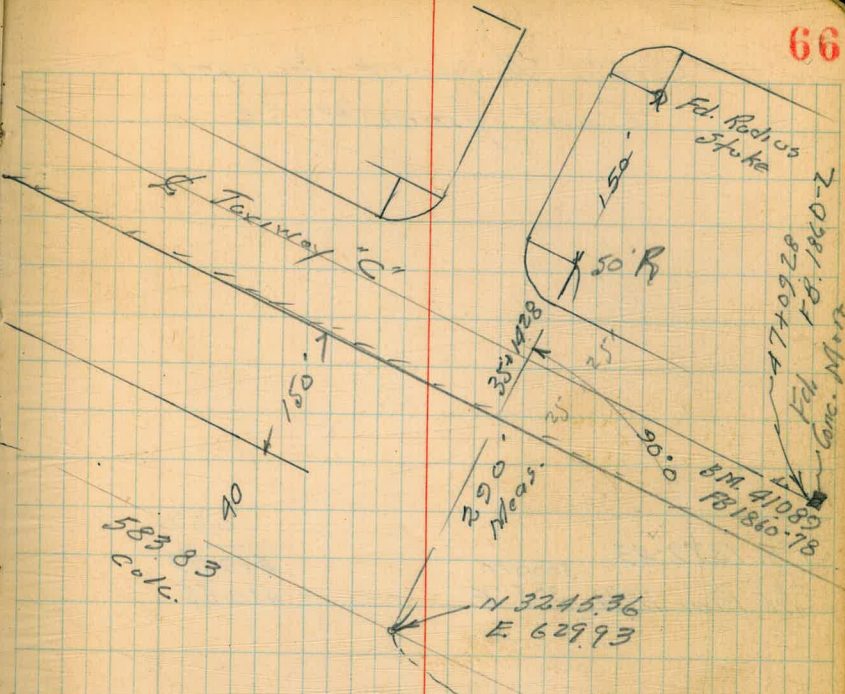
N 3492.08  
E 100.80

25°  
196.95  
Calc.



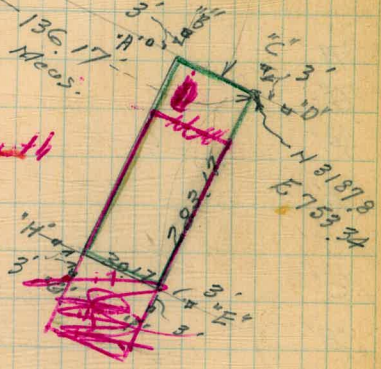
West 332.43

410.89



~~Note, Moved 3' south  
to location  
in Red to fit  
Ground Elev.~~

Location  
in Green



INDEXED  
OCT 4 1951

Gibbs Airport Hanger  
Cont from P-66

67

F.B. 1879-43	002
3000H	410.53
Chk Rim MH 325'E	410.55

"H"	411.90
"G"	411.89
"F"	412.06
"E"	412.03
"D"	412.26
"C"	412.22
"B"	412.02
"A"	412.02

T.P.	412.70
T.P.	411.37
	410.89

Lt  
15.08

L

Rt  
15.08

68

0700

413.20

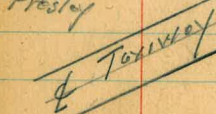
413.20

SURVEY LEASE

Montgomery Airport

Walker  
Pope  
Huffman  
Presley

1125-52



140 20006

Set 1" Pipe With Cement  
And Copper Disc. = 0

N-331359

P:66

210' 210'

West 322,93

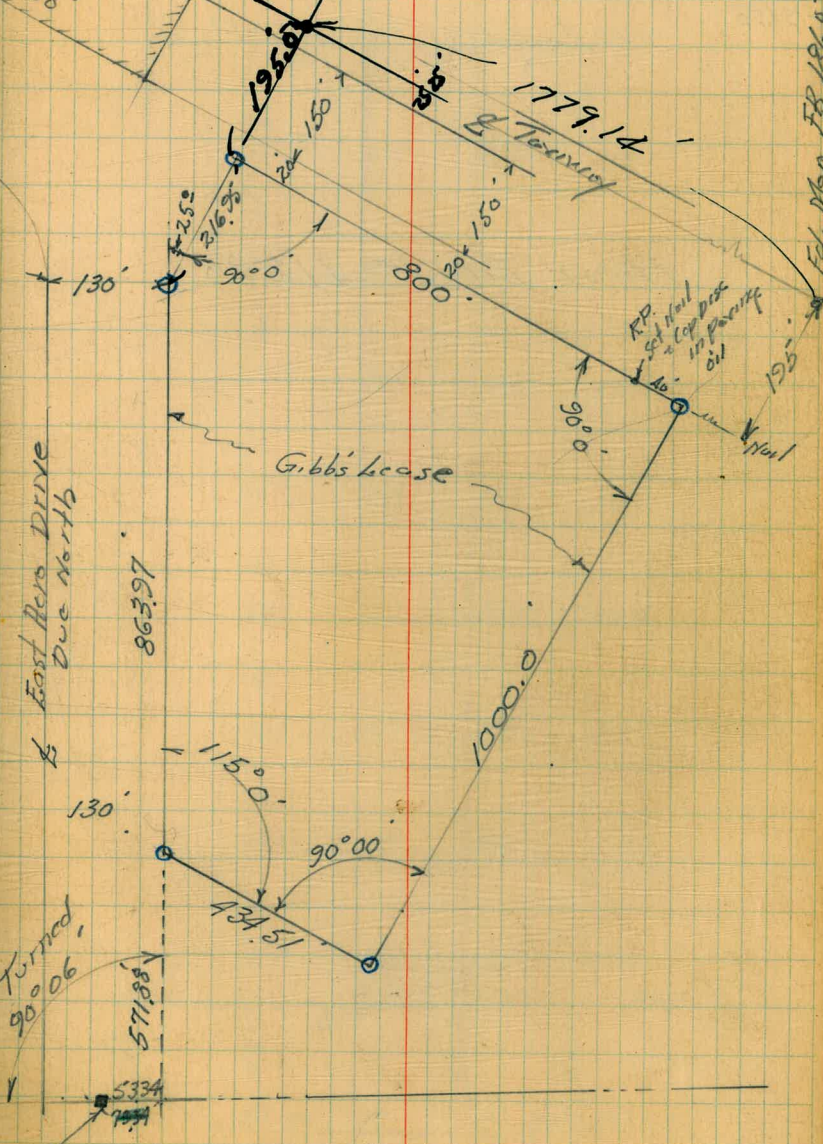
West Aero Drive  
Due North

For Notes  
Lease To West.  
See FB 1758

30

N 3733.59

400'



Gibbs Lease

Turned  
90°06'

Ed. Conn. Mort. S.E. Cor. Lot 24 FB 1758-32

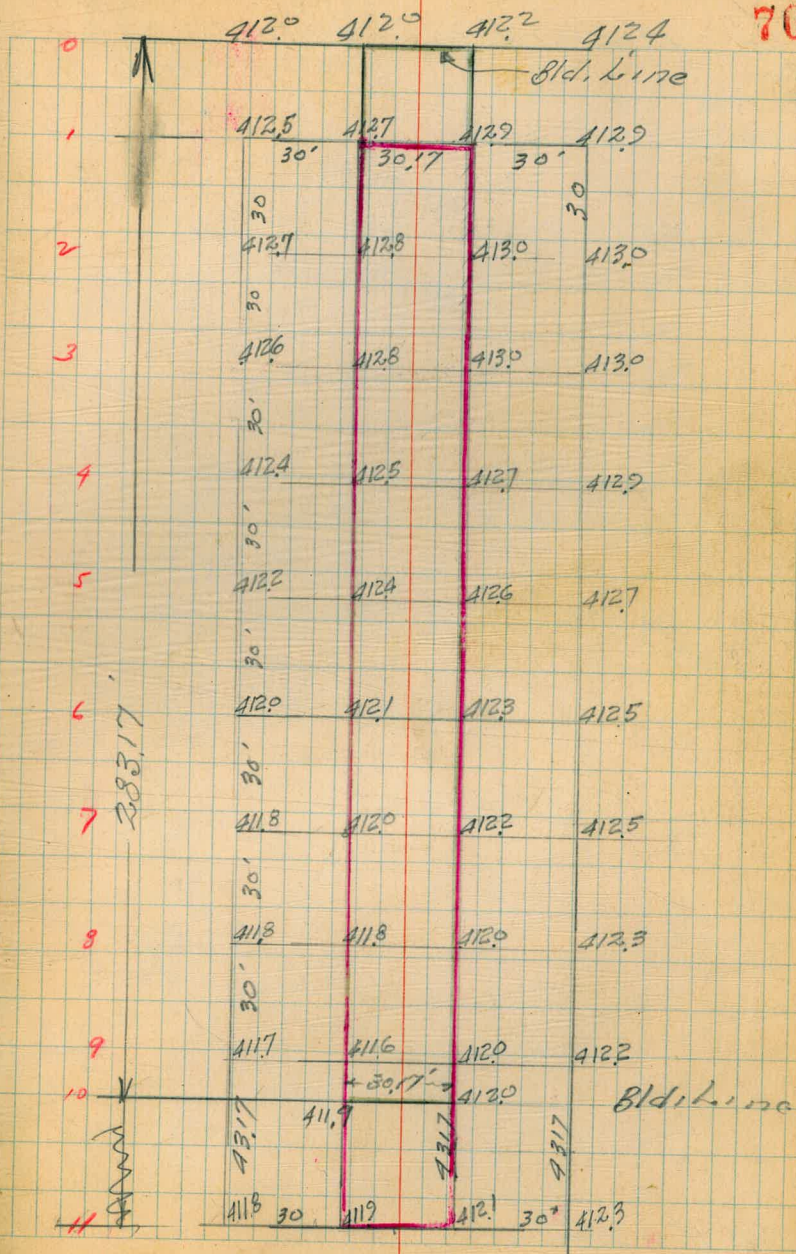
Fed. Mon FB 1860-7

# Gibbs Airport Hanger

Walker Elev on Ground for yardage  
 Pope  
 Revision Estimate  
 7-19-50

Location Sketch P-66

Floor Elev. = 41280





GRID Elevations - Proposed Hangar

Walker  
Pope  
Bryant  
Morales  
4-2-53

Montgomery Airport

110 20 577

INDEXED

APR 3 1953

CHK

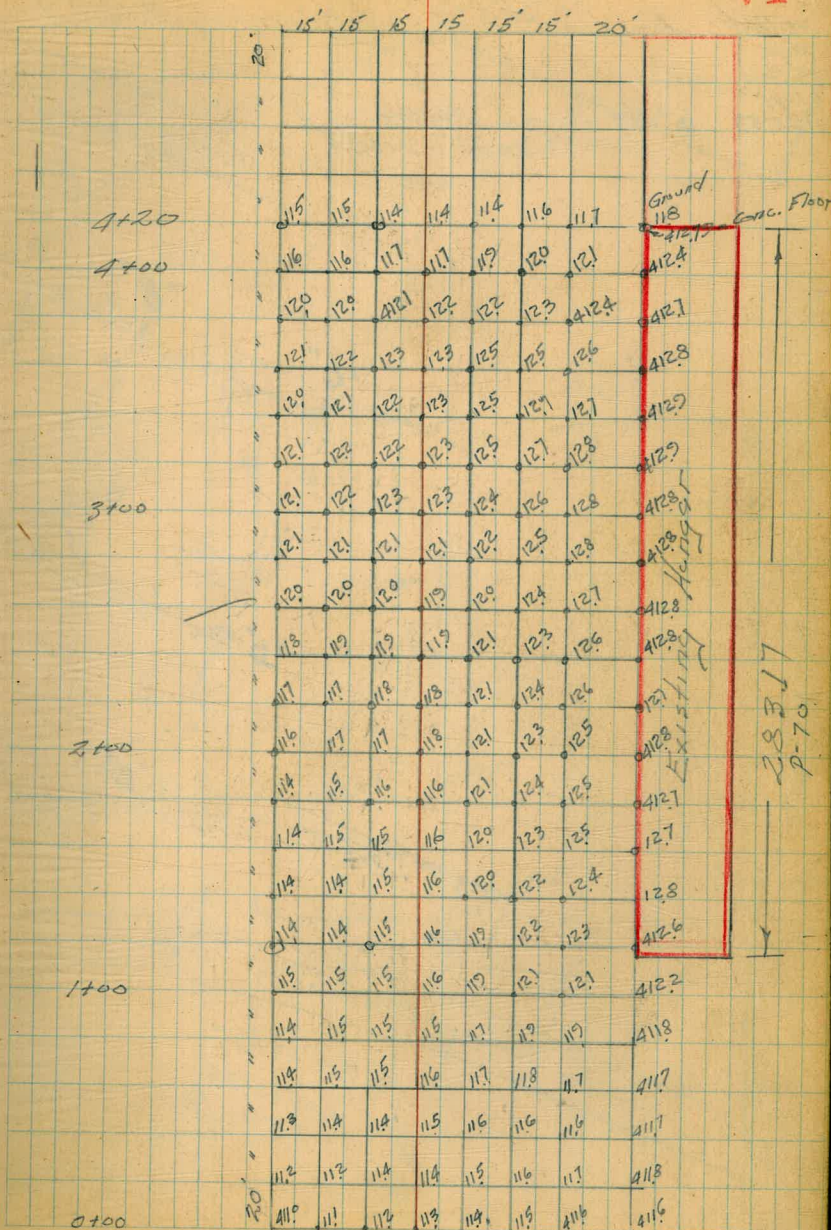


BIA Run MH#9  
F.B. 1861-79

410.53

Walker

71

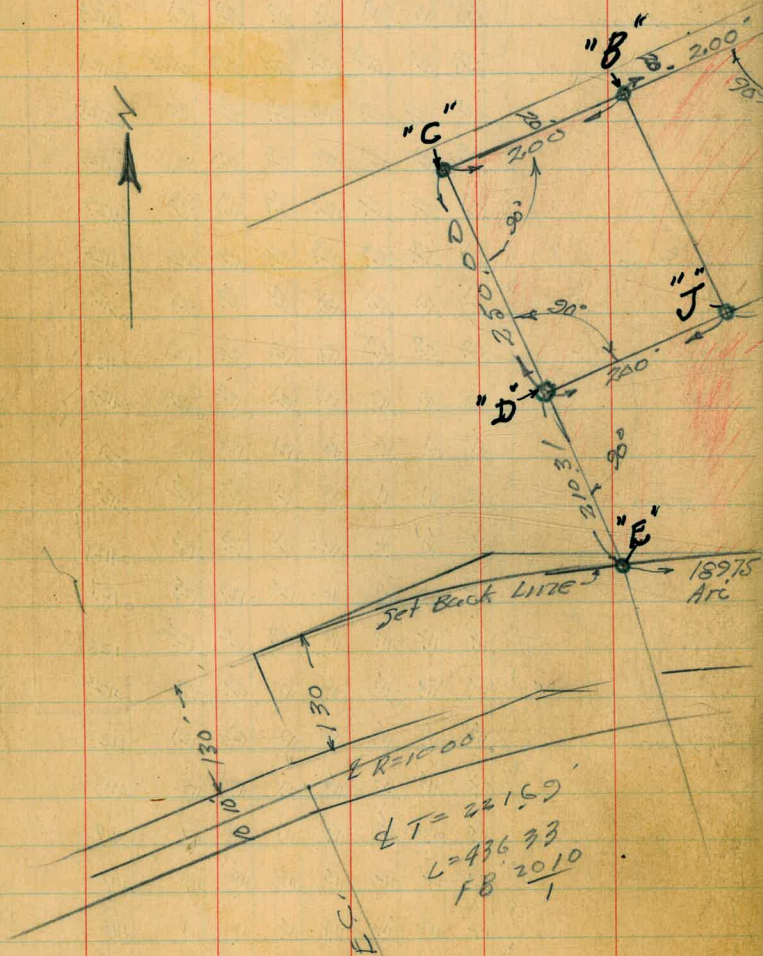


SURVEY FOR LEASE

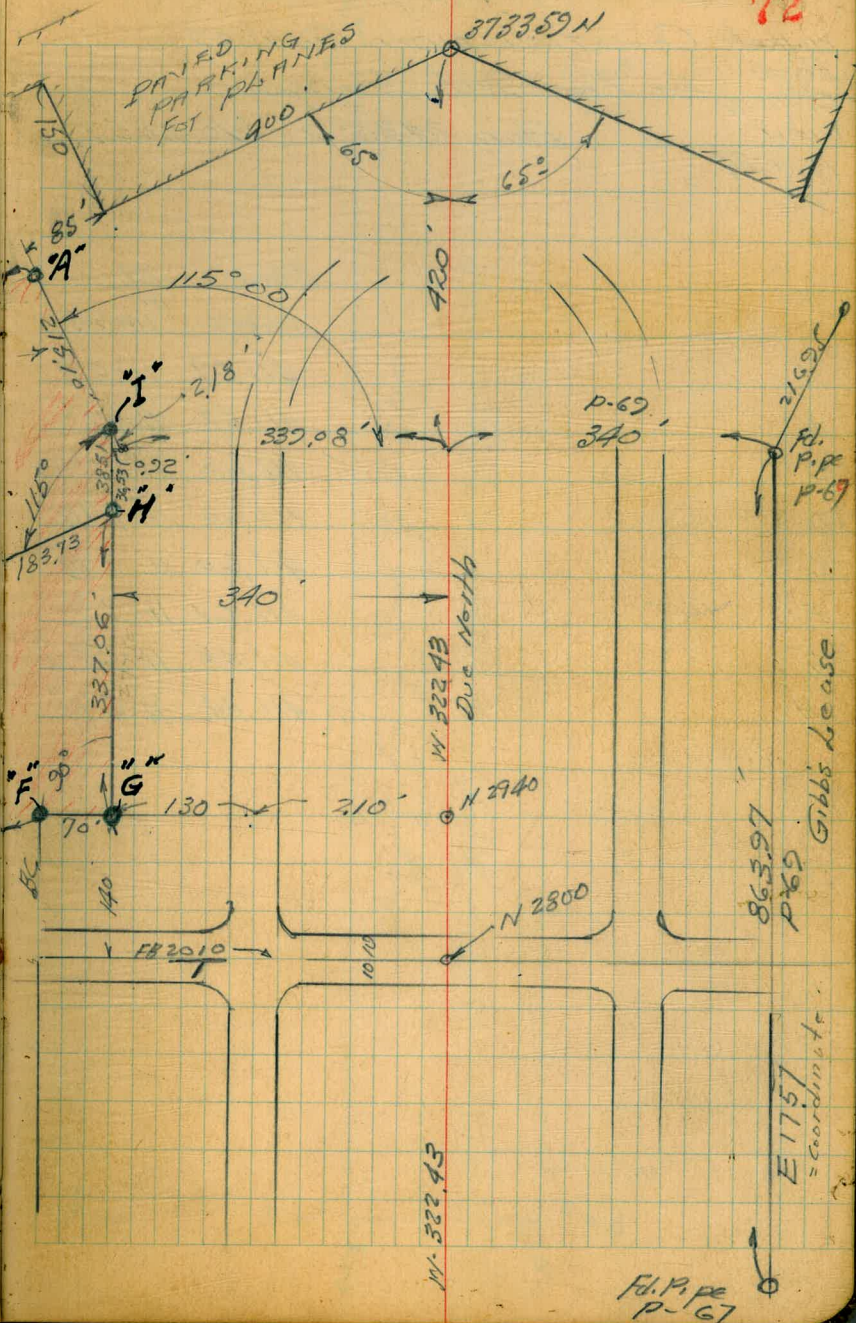
Walker  
Pape  
Pollen  
01/07/1  
11-25-53

Portion - Montgomery Airport

• Set 1" Iron Pipe  
With Cement & Disc.



$\angle T = 221.59$   
 $L = 486.33$   
 $FB = \frac{2010}{1}$



N. 522.43

1" Iron Pipe  
P-67

E 1157  
= coordinate

Gibbs Lease

N. 522.43  
Due North

P-67  
340

1" Iron Pipe  
P-67

N 2940

N 2800

FB 2010

F

G

H

I

A

B

C

D

J

E

373359 N

PAVED  
PARKING  
PLACES

900

65°

65°

150

85°

151.0

115°00'

2.18

337.08

340

116°

183.73

337.06

92°

337.06

70°

140

130

310

1010

1010

1010

1010

1010

1010

1010

1010

1010

1010

1010

1010

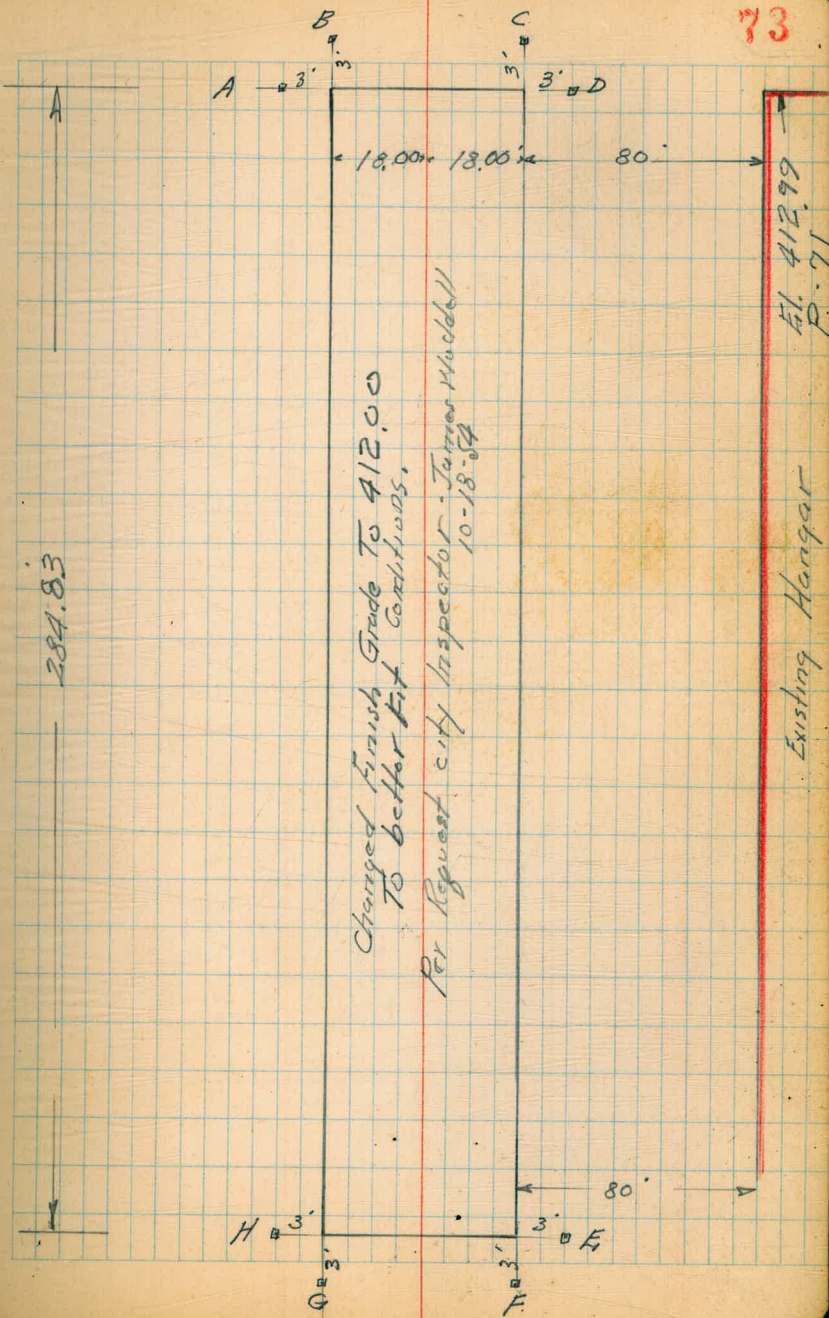
1010

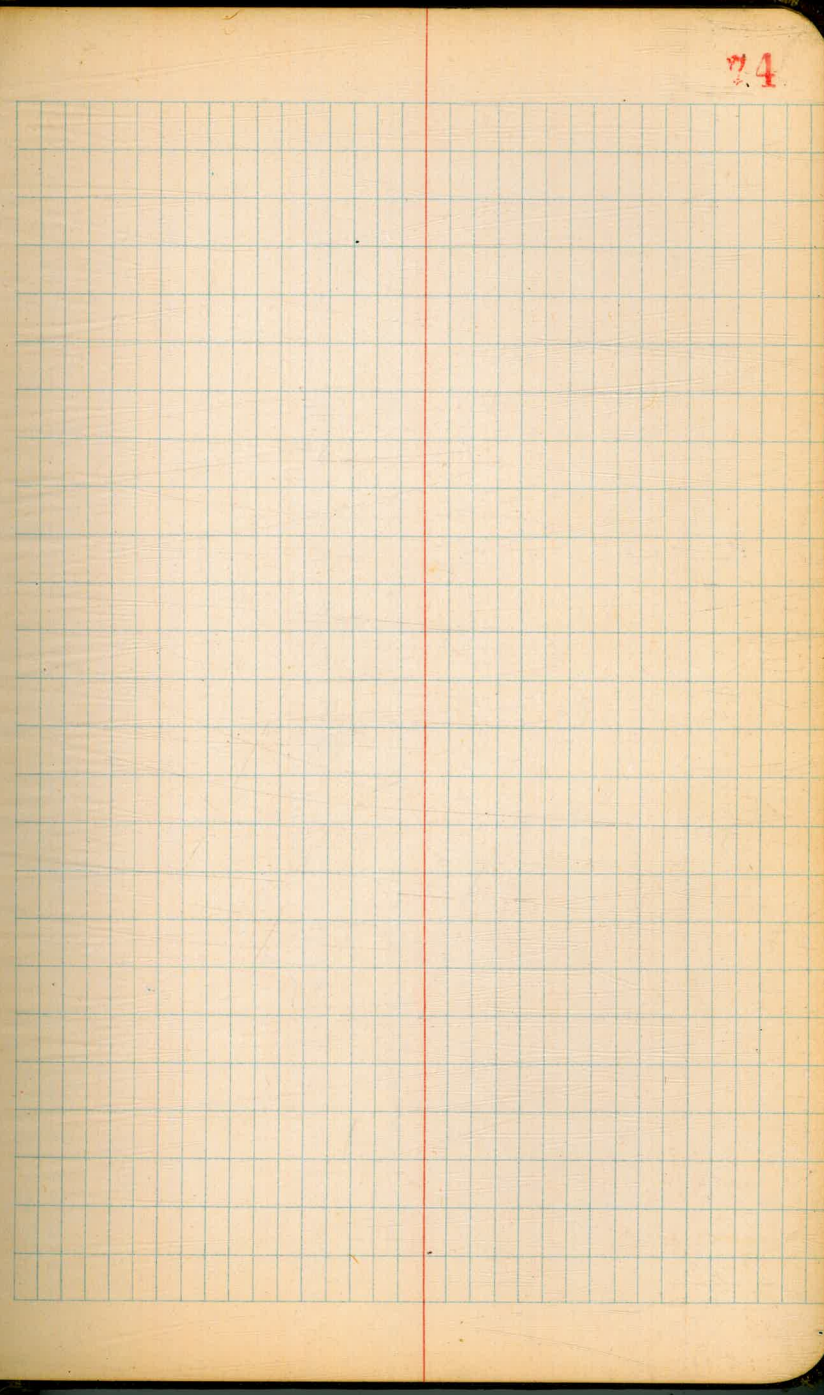
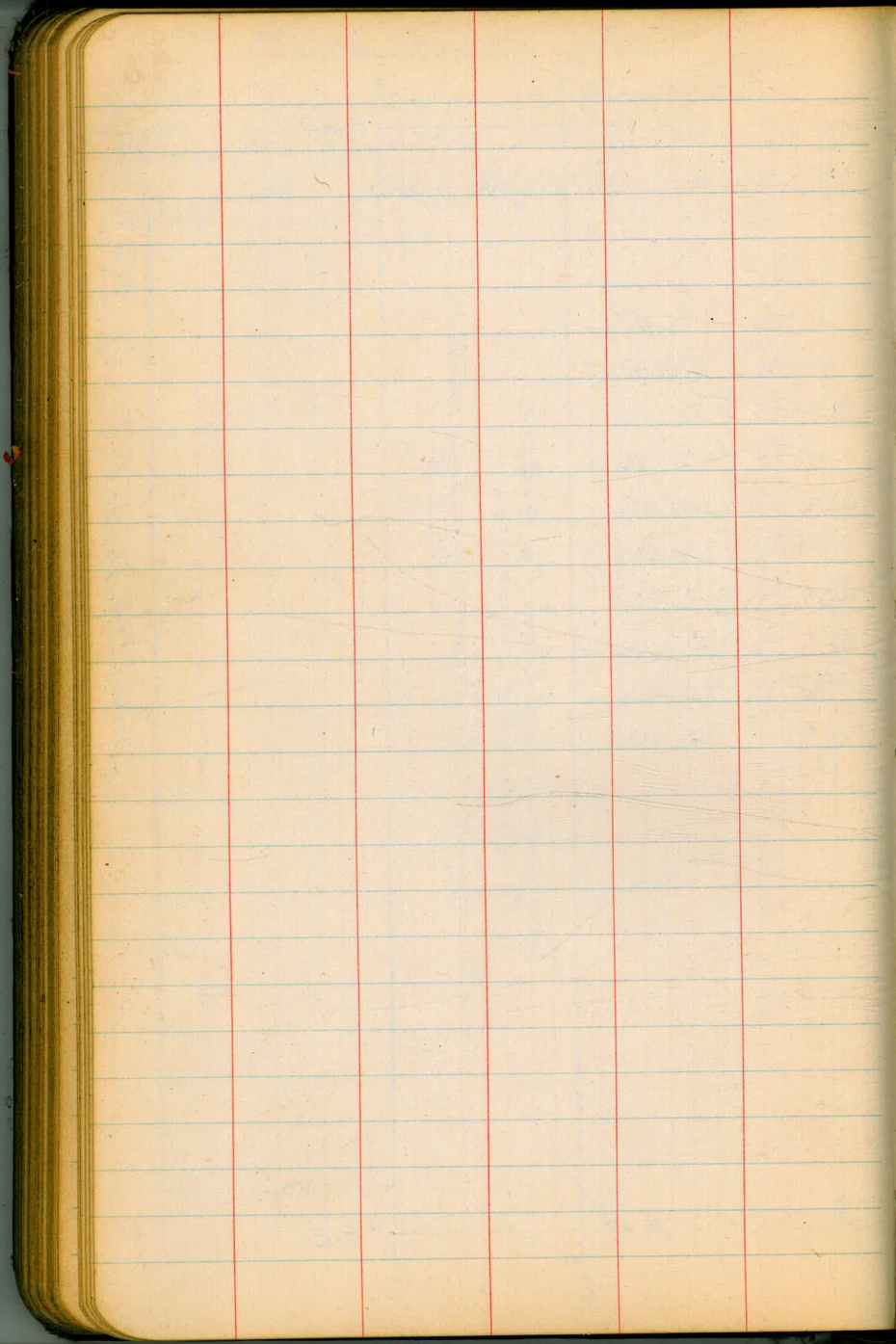
1010

~ MONTGOMERY FIELD ~

Mulker CONSTRUCTION GRADES  
 Pope  
 O'Hann For Proposed Hangar  
 Olow  
 10-14-54  
 Plan 2430-D - W0 20577

	Elev	El.
	Stakes	" <sup>111</sup> inches
A	411.57	11'-6 <sup>7</sup> / <sub>8</sub> "
B	411.58	11'-7"
C	411.60	11'-7 <sup>1</sup> / <sub>4</sub> "
D	411.66	11'-7 <sup>7</sup> / <sub>8</sub> "
E	411.60	11'-7 <sup>1</sup> / <sub>4</sub> "
F	411.61	11'-7 <sup>3</sup> / <sub>8</sub> "
G	411.48	11'-5 <sup>3</sup> / <sub>4</sub> "
H	411.44	11'-5 <sup>1</sup> / <sub>4</sub> "

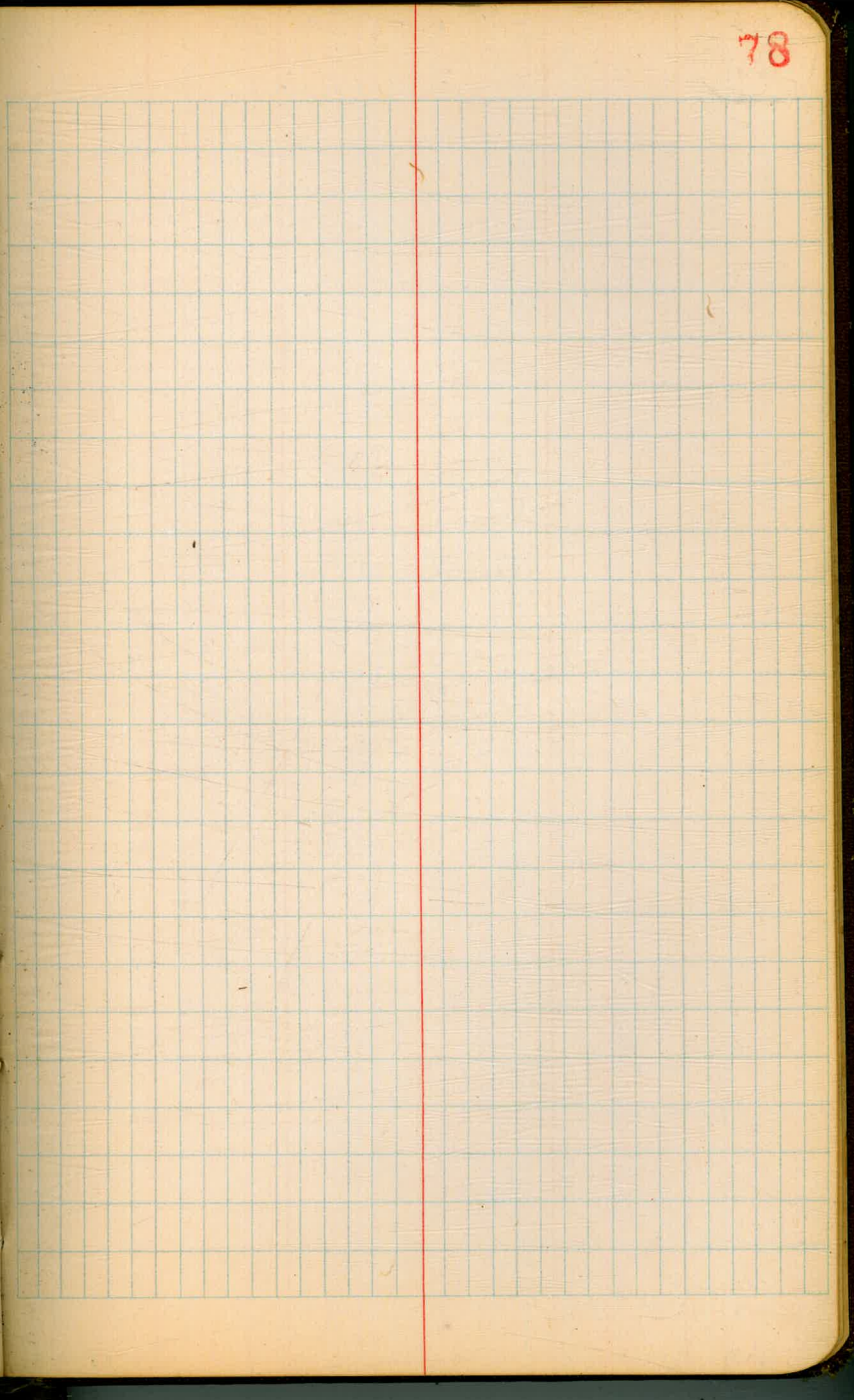
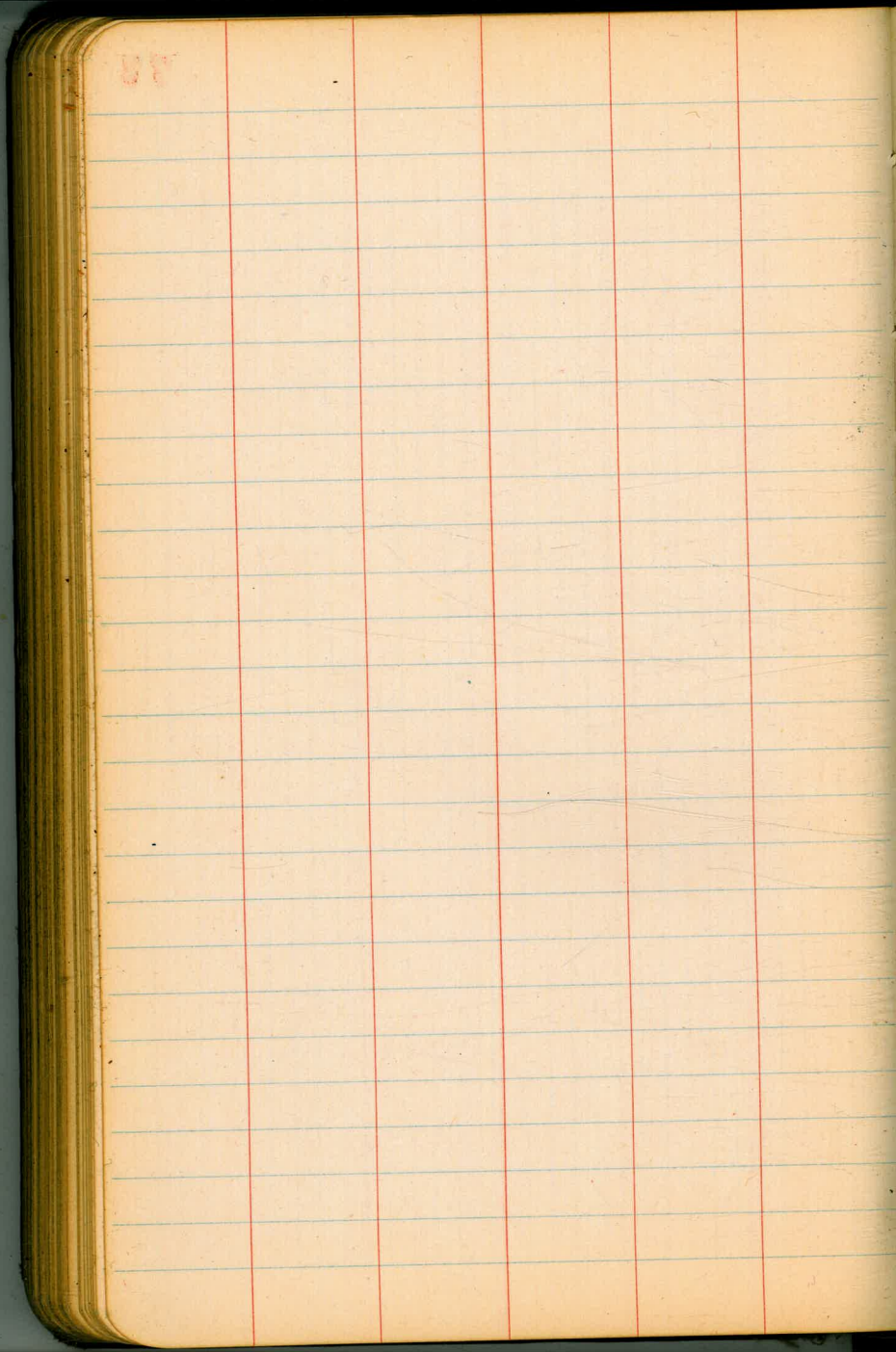










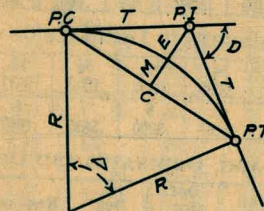






# DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

Copyright, 1914, by Eugene Dietzgen Co., New York City



## 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  $= M = R(1 - \cos \frac{\Delta}{2}) = R \text{vers} \frac{\Delta}{2}$  (5) (6)  
 External  $= E = T \tan \frac{\Delta}{4} = R + \cos \frac{\Delta}{2} - R$  (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  $\div 8\frac{1}{2} = 414.49$  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 =  $7.27 (54.50 \div 100)^2 = 2.16$  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 =  $.3 \times 54.5 \times 8\frac{1}{2} = 136.2'$  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  $8^\circ 20' = 960.6 \div 8\frac{1}{2} = 115.27$  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  $D = 5^\circ 30'$ .

TABLE IV.—TANGENTS AND EXTERNALS TO A 1° CURVE.

Table with columns for Central Angle, Tangent, and External for various angles from 91° to 110°. Each angle has five rows of values corresponding to different curve lengths (10, 20, 30, 40, 50).

TABLE V.—CORRECTIONS FOR TANGENTS AND EXTERNALS.

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table IV) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

Table showing corrections for tangents. Columns include Central Angle (91° to 120°) and Degree of Curve (5° to 70°). Values range from -0.08 to 0.14.

FOR EXTERNALS ADD

Table showing corrections for externals. Columns include Central Angle (91° to 120°) and Degree of Curve (5° to 70°). Values range from -0.09 to 0.020.

408.06 11+50 FB 1926 (N)

578.69  
23  
505.69

1060  
784  
276

11243  
3577  
76.66

11243  
76  
36.13

255.14  
50  
3.05

72  
25  
48

579.27

531 = North  
518 = South  
013

411.9  
411.7 = 100' 431.286  
33.13.59  
411.2 = 200' 999.27

4.795  
15  
4.665

411.4 186 shoulder

73.34  
17.57  
55.77

410.3 188 gutter

411.0 215

410.9 250

410.6 383

912.0

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.