

W
495

ENGINEERS

LEVEL BOOK

11-112 P

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1.

For Single Track Embankment.

495

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

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be $30.6 + (20 - 16) \div 2$ or 2 ft. added to 30.6 = 32.6. For slopes of 1 on 1½ see inside of back cover.

Copyright, 1914, by Eugene Dietzgen Co.

495

INDEX

<i>Rock Emb.</i>	<i>Movements</i>	
El Capitan Slope Monuments	x	Page 1-75
Bench Mark for Same		79
Blank		76-78, 80.

Movement of Monuments

Oct 22, 1934

600 Upstream

Mon. No. Total Move

1	.01 .00	E
2	.28 .28	E
3	.00 .00	

Meyer
Salgado
Walton

B.M. 1.81 606.94 605.13

1	6.67	600.27	01'
2	6.17	600.77	02'
3	6.26	600.68	00

625 Upstream

1	.05 .05	E
2	.05 .05	E
3	.05 .04	E
4	.01 .01	E

B.M. 4.55 630.76 626.21

1	4.48	626.28	01'
2	5.25	625.51	01'
3	4.40	626.36	02'
4	5.70	625.00	01'

650 Upstream

1	.04 .04	E
2	.05 .04	E
3	.23 .23	E
4	Large Boulder Roll over #4 + Demolished it.	
5	.04 .04	E

B.M. 0.69 656.48 655.79

1	5.74	650.74	02'
2	5.26	651.22	02'
3	5.57	650.91	02'
4	Destroyed		
5	6.00	650.48	02'

Movement of Monuments Cont.

Oct. 22 1934
675 Upstream

2

Mon. No. Total Move

1	.08 .09	E
2	.09 .09	E
3	.05 .07	E
4	.07 .09	E
5	.03 .03	E
6	.01 .01	W
7	.00 .00	

B.M. 7.98 481.25 673.27

1	5.94	675.31	03'
2	4.30	674.95	06'
3	5.33	675.92	04'
4	4.83	676.42	04'
5	5.34	675.89	05'
6	5.94	675.31	06'
7	5.47	675.78	03'

700 Upstream

1	.02 .02	E
2	.05 .05	E
3	.06 .07	E
4	.07 .07	E
5	.00 .00	
6	.03 .03	E
7	.03 .05	E
8	.02 .02	E

700 Upstream
B.M. 210 708.63 708.53

1	11.91	696.72	03'
2	10.92	697.71	15'
3	9.76	698.87	66'
4	9.20	699.43	03'
5	7.94	700.69	65'
6	6.06	702.57	10'
7	5.00	703.63	75'
8	3.07	705.56	05'

Movement of Monuments Cont.

Oct. 22, 1934

725 Downstream

3

Mon. No. Move

Total

1	.05 .03	E
2	.09 .08	E
3	.09 .09	E
4	.09 .08	E
5	.10 .11	E
6	.03 .03	E
7	.00 .00	

B.M.	3.54	430.40	726.86
1		2.83	727.57 10-
2		2.84	727.56 17-
3		3.03	727.37 20-
4		4.33	726.07 19-
5		3.89	726.51 11-
6		4.32	724.08 15-
7		6.37	724.03 06-

700 Downstream

1	.00 .06	W
2	.03 .04	W
3	.02 .02	W
4	.03 .03	W
5	.06 .06	W
6	.06 .06	W

B.M.	12.14	704.23	694.09
1		5.09	701.14 15-
2		4.45	701.78 08-
3		4.17	702.06 31-
4		4.41	701.82 06-
5		4.70	701.54 10- 20-
6		5.17	701.06 01-

Movement of Monuments Cont.

Oct. 22, 1934
675 Downstream

4

Mon. No. Total Move

1	.03	W
	.03	
2	.04	W
	.05	
3	.07	W
	.08	
4	.07	W
	.07	
5	.06	W
	.06	
6	.05	W
	.05	
7	.05	W
	.05	

B.M.	641	681.14	674.73
1		5.22	675.92 01"
2		5.94	675.20 04"
3		5.42	675.72 03"
4		4.92	674.22 03"
5		5.24	675.90 04"
6		5.60	675.54 04"
7		5.85	675.29 02"

650 Downstream

1	.02	W
	.02	
2	.06	W
	.06	
3	.06	W
	.06	
4	.22	W
	.22	
5	.02	W
	.02	
6	.05	W
	.05	
7	.05	W
	.05	

B.M.	611	655.48	649.37
1		5.14	650.34 02"
2		4.91	650.57 02"
3		5.45	650.03 02"
4		4.65	650.83 23"
5		4.43	651.05 01"
6		4.69	650.79 02"
7		5.05	650.43 01"

Movement of Monuments Cont.
Oct. 22, 1934

5

625 Downstream

Mon. No. Total Move

1	.01 .01	E
2	.01 .01	W
3	.01 .01	W
4	.01 .01	E

B.M. 330 630.96 627.66

1 5.47 625.49 01*

2 5.22 625.74 02*

3 4.56 626.40 01*

4 4.49 626.47 01*

600 Downstream

1	.00 .00	
2	.12 .12	W
3	.00 .00	

B.M. 545 605.11 599.66

1 4.43 600.68 11*

2 4.43 600.68 13*

3 3.63 601.49 00

Movement of Monuments

Oct. 23, 1934

600 Upstream

Mon. No. Total Move

1	.01 .00	E
2	.28 .28	E
3	.01 .01	E

625 Upstream

1	.05 .03	E
2	.04 .05	E
3	.01 .02	E
4	.00 .00	

650 Upstream

1	.05 .04	E
2	.05 .04	E
3	.24 .23	E
4	Destroyed	
5	.03 .03	E

Meyer
Salgado
Walton

6

B.M. 1.76 606.89 605.13

1	6.60	600.29	00
2	6.10	600.79	70
3	6.19	600.70	00

B.M. 4.16 630.37 626.21

1	4.09	626.28	01
2	4.86	625.51	01
3	4.01	626.36	02
4	5.31	625.06	01

B.M. 0.18 655.97 655.79

1	5.23	650.74	02
2	4.74	651.23	02
3	5.05	650.92	41
4	Destroyed		
5	5.48	650.49	02

Movement of Monuments Cont.

Oct. 23 1934

675 Upstream

Mon. No. Move

Total

B.M. 7.88 481.15 673.27

1	.08 .09	E	1	5.82	675.33	01"
2	.07 .08	E	2	6.17	674.98	03"
3	.07 .07	E	3	5.21	675.94	02"
4	.07 .09	E	4	4.72	676.43	03"
5	.00 .02	E	5	5.25	675.90	04"
6	.03 .04	W	6	5.83	675.32	05"
7	.02 .02	E	7	5.37	675.78	03"

700 Upstream

700 Upstream

B.M. 0.18 708.71 708.53

1	.03 .03	E	1	11.99	696.72	03"
2	.08 .07	E	2	11.02	697.69	11"
3	.08 .08	E	3	9.84	698.85	08"
4	.08 .09	E	4	9.30	699.41	10"
5	.01 .00	W	5	8.03	700.48	66"
6	.04 .04	E	6	6.15	702.50	11"
7	.05 .05	E	7	5.09	703.62	16"
8	.04 .04	E	8	3.16	705.55	04"

Movement of Monuments Cont.

Oct. 23, 1934

725 Downstream

Mon. No.	Total Move	
1	.05 .04	E
2	.07 .07	E
3	.09 .09	E
4	.08 .08	E
5	.11 .11	E
6	.03 .03	E
7	.01 .01	E

B. M.	3.48	730.34	726.86
1			2.78 727.56 11°
2			2.79 727.55 18°
3			2.97 727.37 20°
4			4.27 726.07 19°
5			3.84 726.50 20°
6			4.24 724.08 18°
7			4.30 724.04 05°

700 Downstream

1	.06 .07	W
2	.04 .05	W
3	.02 .02	W
4	.03 .03	W
5	.06 .07	W
6	.06 .06	W

B. M.	12.33	706.42	694.09
1			5.27 701.15 14°
2			4.43 701.79 01°
3			4.34 702.08 24°
4			4.59 701.83 05°
5			4.88 701.54 10°
6			5.34 701.08 00°

Movement of Monuments Cont.

Oct 23, 1934
675 Downstream

Mon. No.	Total Move		B.M.	618	680.91	674.73
1	.03 .03	W	1			4.98 675.93 00
2	.04 .05	W	2			5.70 675.21 02
3	.08 .09	W	3			5.19 675.72 03
4	.07 .08	W	4			4.68 676.23 02
5	.06 .06	W	5			4.99 675.92 02
6	.04 .05	W	6			5.35 675.56 02
7	.05 .05	W	7			5.60 675.31 00

650 Downstream

			B.M.	598	655.35	649.37
1	.02 .02	W	1			4.99 650.36 00
2	.06 .06	W	2			4.77 650.58 01
3	.06 .06	W	3			5.31 650.04 01
4	.10 .20	W	4			4.51 650.84 00
5	.02 .02	W	5			4.29 651.06 00
6	.05 .05	W	6			4.54 650.81 00
7	.05 .05	W	7			4.90 650.45 01

Movement of Monuments Cont.
 Oct. 23, 1934

625 Downstream

Mon. No. Total Move

1	.01 .01	E
2	.01 .01	W
3	.01 .01	W
4	.00 .00	

B.M. 244	630.10	627.66
1	4.62	625.48 00
2	4.37	625.73 01+
3	3.71	626.39 00
4	3.64	626.46 02-

600 Downstream

1	.01 .01	W
2	.12 .12	W
3	.00 .00	

B.M. 550	605.16	599.66
1	4.48	600.68 01+
2	4.48	600.68 18-
3	3.67	601.49 01+

Movement of Monuments

Oct 24, 1934

600 Upstream

Total
Mon. No. Move

1	.01 .00	E
2	.28 .28	E
3	.01 .00	E

625 Upstream

1	.04 .04	E
2	.04 .04	E
3	.03 .03	E
4	.00 .00	

650 Upstream

1	.04 .04	E
2	.05 .05	E
3	.22 .23	E
4	Destroyed	
5	.04 .04	E

Meyer
Salgado
Walton

11

B.M. 226 607.39 605.13

7.13 600.26 02"

6.62 600.77 22"

6.71 600.68 00

B.M. 4.83 631.04 626.21

1 4.76 626.28 01"

2 5.53 625.51 01"

3 4.68 626.34 02"

4 5.99 625.05 02"

B.M. 024 656.03 655.79

1 5.29 650.74 02"

2 4.80 651.23 02"

3 5.10 650.93 40"

4 Destroyed

5 5.54 650.49 02"

Movement of Monuments Cont.

Oct. 24 1934
675 Upstream

Mon. No. Move

1	.09 .08	E
2	.08 .08	E
3	.08 .08	E
4	.10 .10	E
5	.05 .06	E
6	.00 .01	E
7	.03 .03	E

700 Upstream

1	.05 .04	E
2	.07 .07	E
3	.08 .08	E
4	.09 .08	E
5	.00 .00	
6	.05 .05	E
7	.06 .06	E
8	.05 .04	E

B.M. 925 482.52

673.27

1	7.20	675.32	02-
2	7.55	674.97	04-
3	4.59	675.93	03-
4	6.09	676.43	03-
5	6.62	675.90	01-
6	7.20	675.32	05-
7	6.73	675.79	02-

700 Upstream

B.M. 003 708.54

708.53

1	11.84	696.70	05-
2	10.88	697.68	18-
3	9.72	698.84	09-
4	9.14	699.40	11-
5	7.90	700.66	68-
6	6.01	702.55	14-
7	4.95	703.61	27-
8	3.03	705.53	06-

Movement of Monuments Cont.

Oct. 24, 1934

725 Downstream

13

Mon. No. Total Move

1	.06 .05	E
2	.08 .07	E
3	.10 .10	E
4	.07 .07	E
5	.10 .12	E
6	.03 .03	E
7	.00 .00	

B.M. 2.79 729.65 726.86

1	2.09	727.56	11-
2	2.11	727.54	19-
3	2.30	727.35	22-
4	3.42	726.03	23-
5	3.17	726.48	22-
6	5.59	724.06	17-
7	5.62	724.03	06-

700 Downstream

1	.06 .06	W
2	.07 .07	W
3	.02 .02	W
4	.00 .01	W
5	.05 .05	W
6	.04 .06	W

B.M. 12.41 706.50 694.09

1	5.36	701.14	15-
2	4.72	701.78	08-
3	4.44	702.06	31-
4	4.69	701.81	07-
5	4.97	701.53	11-
6	5.44	701.06	01-

Movement of Monuments Cont.

Oct. 24, 1934
675 Downstream

Mon. No.	Total Move		B.M.	4.38	679.11	674.73
1	.04 .03	W	1			3.18 675.93 00
2	.03 .05	W	2			3.90 675.21 03-
3	.09 .10	W	3			3.39 675.72 03-
4	.07 .07	W	4			2.88 676.23 02-
5	.07 .07	W	5			3.20 675.91 03-
6	.04 .05	W	6			3.57 675.54 06-
7	.04 .04	W	7			3.82 675.29 02-

650 Downstream

			B.M.	6.47	655.84	649.37
1	.01 .02	W	1			5.48 650.36 00
2	.06 .06	W	2			5.26 650.58 01-
3	.06 .06	W	3			5.80 650.04 01-
4	.22 .22	W	4			5.00 650.84 22-
5	.02 .02	W	5			4.78 651.06 00
6	.03 .03	W	6			5.03 650.81 00
7	.03 .03	W	7			5.39 650.45 01+

Movement of Monuments Cont.
 Oct. 24. 1934

625 Downstream

	.00	
1	.00	
	.01	W
2	.01	
	.00	
3	.00	
	.01	E
4	.01	

B. M. 2.89 630.55 627.66

1	5.07	625.48	00
2	4.82	625.73	01+
3	4.16	626.39	00
4	4.09	626.46	02-

600 Downstream

	.00	
1	.01	W
	.12	W
2	.12	
	.00	
3	.00	

B. M. 5.80 605.46 599.66

1	4.78	600.68	01+
2	4.78	600.68	18-
3	3.97	601.49	01+

Movement of Monuments

Oct. 25, 1934

Upstream Toe wall See Page 19 Bk 493

Total

Mon. No.	Move
1	.00 .01 W
2	.00 .005 W
3	.00 .00

Meyer
Salgado
Walton

16

B.M.	0.01	581.27	581.26
1		6.28	574.99 01+
2		6.29	574.98 01-
3		6.31	574.96 01+

Downstream Toe wall

1	.010 W .015
2	.005 E .000
3	.000 W .010

B.M.	12.35	576.00	563.65
1		0.94	575.04 03+
2		0.98	575.02 00
3		1.08	574.92 02+

Movement of Monuments Cont.
 Oct. 25, 1934

17

600 Upstream

Mon. No.	Total Move		B.M.	2.12	607.25	605.13
	.00					
1	.01	E			6.99	600.26 02-
	.28					
2	.28	E			6.49	600.76 23-
	.00					
3	.00				6.58	600.67 01-

625 Upstream

			B.M.	4.43	630.64	626.21
	.04					
1	.04	E	1		4.36	626.28 01-
	.04					
2	.04	E	2		5.13	625.51 01-
	.03					
3	.03	E	3		4.28	626.36 02-
	.00					
4	.01	E	4		5.57	625.07 00

650 Upstream

			B.M.	0.24	656.05	655.79
	.04					
1	.03	E	1		5.32	650.73 03-
	.04					
2	.04	E	2		4.84	651.21 04-
	.23					
3	.23	E	3		5.13	650.92 41-
	.00					
4	.00	Replaced Oct. 24	4		5.76	650.29 00
	.03					
5	.03	E	5		5.57	650.48 03-

Movement of Monuments Cont.

Oct. 25, 1934

675 Upstream

Mon. No. Total Move

1	.08 .08	E
2	.07 .08	E
3	.06 .08	E
4	.10 .11	E
5	.01 .03	E
6	.02 .02	E
7	.04 .03	E

700 Upstream

1	.05 .03	E
2	.07 .07	E
3	.08 .08	E
4	.11 .11	E
5	.01 .00	E
6	.05 .05	E
7	.07 .07	E
8	.04 .04	E

B.M. 9.04 682.31 673.27

1	6.99	675.32	02-
2	7.34	674.97	04-
3	6.39	675.92	01-
4	5.89	676.42	01-
5	6.42	675.89	05-
6	7.00	675.31	06-
7	6.52	675.79	02-

700 Upstream

B.M. 0.10 708.43 708.53

1	11.93	696.70	05-
2	10.94	697.69	17-
3	9.81	698.82	11-
4	9.23	699.40	11-
5	7.97	700.66	68-
6	6.09	701.54	12-
7	5.03	703.60	28-
8	3.09	705.54	05-

Movement of Monuments Cont.

Oct. 25, 1934

725 Downstream

19

Mon. No.	Total Move		B.M.	3.06	729.92	726.86
1	.05 .05	E	1		2.36	727.56 09-
2	.07 .07	E	2		2.40	727.52 21-
3	.10 .10	E	3		2.58	727.34 13-
4	.07 .08	E	4		3.89	726.03 23-
5	.12 .11	E	5		3.45	726.47 23-
6	.04 .04	E	6		5.87	724.05 18-
7	.00 .00		7		5.89	724.03 06-

700 Downstream

B.M. 12.15 706.24 694.09

1	.07 .08	W	1		5.10	701.14 15-
2	.05 .05	W	2		4.45	701.79 07-
3	.03 .03	W	3		4.17	702.07 30-
4	.05 .03	W	4		4.42	701.82 06-
5	.08 .08	W	5		4.72	701.52 12-
6	.06 .04	W	6		5.17	701.07 00

Movement of Monuments Cont.

20

Oct. 25, 1934
675 Downstream

Mon. No	Total Move		B.M. 4.32	679.05	674.73
1	.03 .03	W	1	3.11	675.94 01-
2	.06 .05	W	2	3.83	675.22 02-
3	.08 .09	W	3	3.32	675.73 02-
4	.08 .08	W	4	2.81	676.24 01-
5	.08 .08	W	5	3.12	675.93 01-
6	.05 .05	W	6	3.49	675.56 02-
7	.05 .05	W	7	3.74	675.31 00

650 Downstream

	B.M. 6.14	655.51	649.37		
1	.02 .02	W	1	5.15	650.36 00
2	.06 .06	W	2	4.93	650.58 01-
3	.06 .06	W	3	5.46	650.05 00
4	.22 .22	W	4	4.67	650.84 22-
5	.02 .02	W	5	4.45	651.06 00
6	.05 .05	W	6	4.70	650.81 00
7	.05 .05	W	7	5.06	650.45 01+

Movement of Monuments Cont.
Oct. 25, 1934

21

625 Downstream

Mon. No.	Total Move		B.M.	122	628.88	627.66
1	.00 .00		1		3.39	625.49 00
2	.00 .01	W	2		3.15	625.73 01+
3	.00 .00		3		2.49	626.39 00
4	.00 .00		4		2.40	626.48 00

600 Downstream

			B.M.	551	605.17	599.66
1	.00 .01	W	1		4.50	600.67 00
2	.12 .12	W	2		4.50	600.67 19-
3	.00 .00		3		3.48	601.49 01+

Oct. 29, 1934

725 upstream

			B.M.	628	729.97	723.69
1			1		2.94	727.03
2			2		3.14	726.83
3			3		4.14	725.81
4			4		2.37	727.60

Oct. 29, 1934
725 upstream

Movement of Monuments

Oct. 26, 1934

600 Upstream

Mon. No. Total Move

1	.01 .00	E
2	.29 .29	E
3	.00 .01	E

B.M. 1.65 604.78 605.13

1	6.52	600.26	02-
2	6.02	600.76	23-
3	6.11	600.67	01-

625 Upstream

1	.04 .04	E
2	.04 .04	E
3	.03 .03	E
4	.02 .02	E

B.M. 3.66 629.87 626.21

1	3.60	626.27	02-
2	4.38	625.49	03-
3	3.52	626.35	03-
4	4.81	625.06	01-

650 Upstream

1	.04 .04	E
2	.05 .04	E
3	.23 .23	E
4	.00 .00	
5	.03 .03	E

B.M. 0.11 655.90 655.79

1	5.16	650.74	02-
2	4.69	651.21	04-
3	4.99	650.91	02-
4	5.61	650.29	00
5	5.42	650.48	03-

Movement of Monuments Cont.

Oct. 26, 1934

675 Upstream

Mon. No. Total Move

1	.08 .07	E
2	.08 .08	E
3	.08 .08	E
4	.10 .10	E
5	.04 .07	E
6	.01 .00	E
7	.02 .00	E

B.M. 7.94 681.21

673.27

1	5.88	675.33	01-
2	4.24	674.97	02-
3	5.29	675.92	04-
4	4.79	676.42	04-
5	5.32	675.89	05-
6	5.90	675.31	06-
7	5.43	675.78	03-

700 Upstream

1	.04 .03	E
2	.08 .06	E
3	.08 .06	E
4	.08 .08	E
5	.01 .02	W
6	.06 .04	E
7	.11 .08	E
8	.05 .03	E

B.M. 2.43 706.96

708.53

700 Upstream

1	12.27	696.69	06-
2	11.28	697.68	18-
3	10.13	698.83	10-
4	9.58	699.38	13-
5	8.31	700.65	69-
6	6.42	702.54	13-
7	5.36	703.60	78-
8	3.43	705.53	06-

Movement of Monuments Cont.

Oct. 26, 1934

725 Upstream

Total

Mon. No. Move

	.00	
5.	.02	W
	.00	
6.	.01	W
	.01	E
7.	.03	W
	.03	E
8.	.04	W

B.M. 10.09 733.77 723.69

5.91 727.86

7.04 726.73

7.12 726.65

7.83 725.94

725 Downstream

	.05	E
1	.05	E
	.08	
2	.08	E
	.10	
3	.10	E
	.08	
4	.08	E
	.12	
5	.13	E
	.03	
6	.03	E
	.01	
7	.01	E

B.M. 3.49 730.35 726.86

2.81 727.54 13-

2.82 727.53 20-

3.02 727.33 24-

4.32 726.03 23-

3.89 726.46 24-

4.31 724.04 19-

4.33 724.02 07-

Movement of Monuments Cont.

Oct. 26, 1934

700 Downstream

Mon. No. Move

1	.06 .08	W
2	.04 .04	W
3	.01 .01	W
4	.03 .03	W
5	.07 .07	W
6	.07 .06	W

Total

B.M. 12.11 706.20

694.09

1	5.06	701.14	15-
2	4.41	701.79	07-
3	4.14	702.06	31-
4	4.38	701.82	06-
5	4.47	701.53	11-
6	5.13	701.07	00

675 Downstream

1	.02 .03	W
2	.05 .05	W
3	.08 .08	W
4	.07 .07	W
5	.07 .06	W
6	.05 .05	W
7	.05 .05	W

B.M. 5.84 680.59

674.73

1	4.66	675.93	00
2	5.38	675.21	03-
3	4.86	675.73	02-
4	4.34	676.23	02-
5	4.48	675.91	03-
6	5.04	675.55	03-
7	5.29	675.31	00

Movement of Monuments Cont.

Oct. 26, 1934
650 Downstream

Mon. No.	Total Move		B.M.	597	655.34	649.37
1	.02 .03	W	1			4.98 650.34 00
2	.07 .07	W	2			4.74 650.58 01-
3	.05 .05	W	3			5.29 650.05 00
4	.22 .22	W	4			4.49 650.85 21-
5	.03 .03	W	5			4.28 651.06 00
6	.05 .05	W	6			4.54 650.80 01-
7	.05 .05	W	7			4.89 650.45 01+

625 Downstream

			B.M.	134	629.00	627.66
1	.01 .00	W	1			3.51 625.49 01+
2	.01 .02	E	2			3.27 625.73 01+
3	.01 .00	W	3			2.61 624.39 00
4	.00 .01	E	4			2.53 624.47 01-

600 Downstream

			B.M.	553	605.19	599.66
1	.05 .07	W	1			4.47 600.72 105
2	.12 .13	W	2			4.52 600.67 19-
3	.00 .01	W	3			3.70 601.49 01+

move. due to tractor

passing over it

Settlement
Due to Tractor
Passing over it
several times

Movement of Monuments

Oct. 27, 1934

650 Upstream

Meyer
Salgado
Walton

27

Total
Mon. No. Move

B.M. 0.09 655.88 655.79

1	.03 .03	E			5.13	650.75	01-
2	.05 .04	E			4.66	651.22	03-
3	.23 .23	E			4.96	650.92	41-
4	.01 .01	E			5.59	650.29	00
5	.02 .03	E			5.40	050.48	03-

675 Upstream

B.M. 8.11 681.38 673.27

1	.10 .09	E			6.04	675.34	00
2	.10 .08	E			6.40	674.98	03-
3	.10 .07	E			5.45	675.93	03-
4	.11 .09	E			4.95	676.43	03-
5	.07 .04	E			5.49	675.89	05-
6	.00 .00				6.06	675.32	05-
7	.05 .03	E			5.58	675.80	01-

Movement of Monuments Cont.

Oct. 27, 1934

700 upstream

28

Mon. No. Total Move

1	.03 .04	E
2	.04 .08	E
3	.06 .08	E
4	.11 .10	E
5	.01 .00	W
6	.06 .06	E
7	.04 .04	E
8	.01 .04	E

B.M. 0.04 708.59 708.53

11.84 696.73 02-

10.88 697.71 15-

9.75 698.84 09-

9.18 699.41 10-

7.93 700.44 68-

6.04 702.55 12-

4.98 703.61 27-

3.03 705.56 03-

B.M. 8.17 731.86 723.69

5	.01 1.00	W
6	.02 .00	W
7	.02 .00	W
8	.02 .02	W

4.00 727.86 00

5.13 726.73 00

5.22 726.64 01-

5.91 725.95 01+

Movement of Monuments Cont.
 Oct. 27, 1934
 725 Downstream

Mon. No.			B.M.	2.56	729.42	726.86
1	.05 .05	E				1.88 727.54 13-
2	.08 .08	E				1.91 727.51 94-
3	.10 .10	E				2.10 727.32 25-
4	.08 .08	E				3.41 726.01 25-
5	.12 .12	E				2.97 726.45 25-
6	.03 .03	E				5.39 724.03 20-
7	.00 .00					5.41 724.01 08-

700 Downstream

Mon. No.			B.M.	12.03	706.12	694.09
1	.07 .08	W				4.98 701.14 15-
2	.05 .05	W				4.34 701.78 08-
3	.01 .03	W				4.06 702.06 31-
4	.03 .03	W				4.32 701.80 08-
5	.08 .08	W				4.60 701.52 12-
6	.07 .07	W				5.06 701.06 01-

Movement of Monuments Cont.

Oct. 27, 1934

675 Downstream

30

Mon. No.	Total Move		B.M.	473	679.46	674.73
1	.02 .03	W	1			3.53 675.93 00
2	.05 .05	W	2			4.25 675.21 03-
3	.08 .08	W	3			3.74 675.72 03-
4	.07 .08	W	4			3.24 676.22 03-
5	.07 .07	W	5			3.55 675.91 03-
6	.05 .05	W	6			3.92 675.54 04-
7	.03 .03	W	7			4.17 675.29 02-

650 Downstream

B.M. 5.70 655.07 649.37

1	.03 .03	W	1			4.72 650.35 01-
2	.07 .07	W	2			4.49 650.58 01-
3	.06 .04	W	3			5.03 650.04 01-
4	.22 .22	W	4			4.29 650.83 73-
5	.02 .02	W	5			4.02 651.05 01-
6	.03 .03	W	6			4.27 650.80 01-
7	.04 .04	W	7			4.42 650.45 01+

Movement of Monuments

Oct. 30, 1934
600 Upstream

Meyer
Salgado
Walton

31

Total
Mon. No. Move

B.M. 175 606.88 605.13

1 .01 E
.00

1 4.62 600.26 02-

2 .30 E
.28

2 6.11 600.77 22-

3 .01 E
.01

3 6.21 600.67 01-

625 Upstream

B.M. 297 629.18 626.21

1 .05 E
.03

1 2.90 626.28 01-

2 .05 E
.04

2 3.68 625.50 02-

3 .04 E
.05

3 2.83 626.35 03-

4 .01 E
.01

4 4.13 625.05 02-

650 Upstream

B.M. 020 655.99 655.79

1 .04 E
.03

1 5.26 650.73 02-

2 .05 E
.04

2 4.78 651.21 01-

3 .24 E
.22

3 5.09 650.90 03-

4 .00
.00

4 5.71 650.28 01-

5 .04 E
.03

5 5.52 650.47 04-

Movement of Monuments Cont.

Oct. 30, 1934
675 Upstream
Total

Mon. No.	Move		B. M.	7.04	680.31	673.27
1	.09 .09	E	1			4.98 675.33 01-
2	.08 .10	E	2			5.34 674.95 06-
3	.08 .09	E	3			4.40 675.91 05-
4	.08 .10	E	4			3.91 676.40 06-
5	.06 .06	E	5			4.44 675.87 07-
6	.01 .03	E	6			5.01 675.30 07-
7	.05 .04	E	7			4.53 675.78 03-

700 Upstream

			B. M.	7.00	Upstream	708.81	708.53
1	.04 .05	E	1			12.09 694.72 03-	
2	.09 .09	E	2			11.13 697.68 18-	
3	.09 .09	E	3			9.97 698.84 07-	
4	.11 .11	E	4			9.42 699.39 12-	
5	.02 .02	E	5			8.14 700.65 69-	
6	.07 .07	E	6			6.27 702.54 13-	
7	.10 .10	E	7			5.20 703.61 27-	
8	.07 .08	E	8			3.27 705.54 05-	

Movement of Monuments Cont.

33

Oct. 30, 1934
725 Upstream

Mon. No. Move

B.M. 8.38 732.07 723.69

1	.01 .00	E	1	5.04	727.03	00
2	.00 .00		2	5.24	726.83	00
3	.01 .00	W	3	6.25	725.82	01+
4	.01 .00	W	4	4.45	727.62	02+
5	.01 .01	W	5	4.25	727.82	01-
6	.03 .02	W	6	5.38	726.69	04-
7	.02 .03	W	7	5.45	726.62	03-
8	.00 .00		8	6.14	725.93	01-

725 Downstream

725 Downstream
B.M. 3.06 729.92 726.86

1	.06 .04	E	1	2.39	727.53	14-
2	.10 .08	E	2	2.43	727.49	24-
3	.11 .10	E	3	2.62	727.30	27-
4	.08 .08	E	4	3.93	725.99	27-
5	.12 .12	E	5	3.49	726.43	27-
6	.03 .03	E	6	5.90	724.02	20-
7	.00 .00		7	5.91	724.01	08-

Movement of Monuments Cont.

Oct. 30, 1934
700 Downstream

Mon. No.	Move		B.M.	12.05	706.14	694.09
1	.06 .07	W	1	5.00	701.14	15-
2	.05 .06	W	2	4.36	701.78	08-
3	.02 .02	W	3	4.08	702.06	31-
4	.02 .02	W	4	4.33	701.81	07-
5	.07 .07	W	5	4.62	701.52	12-
6	.06 .06	W	6	5.07	701.07	00

675 Downstream

			B.M.	4.90	679.63	674.73
1	.03 .03	W		3.70	675.93	00
2	.05 .05	W		4.44	675.19	05-
3	.08 .09	W		3.93	675.70	05-
4	.09 .09	W		3.43	676.20	05-
5	.07 .07	W		3.74	675.89	05-
6	.05 .05	W		4.11	675.52	06-
7	.03 .03	W		4.34	675.29	02-

Movement of Monuments Cont.

Oct. 30, 1934

650 Downstream

Mon. No.	Total Move		B.M.	611	655.48	649.37	
1	.02 .02	W				5.13	650.35 01-
2	.06 .07	W				4.91	650.57 02-
3	.05 .06	W				5.45	650.03 02-
4	.22 .22	W				4.65	650.83 23-
5	.02 .02	W				4.43	651.05 01-
6	.05 .05	W				4.69	650.79 02-
7	.03 .03	W				5.04	650.44 00-

625 Downstream

			B.M.	132	628.98	627.66	
1	.00 .00					3.49	625.49 01+
2	.01 .02	W				3.26	625.72 00
3	.00 .00					2.40	626.38 01-
4	.00 .00					2.51	626.47 01-

600 Downstream

			B.M.	575	605.41	599.66	
1	.03 .04	W				4.71	600.70 103
2	.12 .12	W				4.75	600.66 20-
3	.00 .00					3.92	601.49 01+

Movement of Monuments

Oct. 31, 1934

Upstream Toe wall

Total
Mon. No. Move

1 .005 W
.015

2 .005 E
.000

3 .005 W
.005

Downstream Toe wall

1 .005 W
.020

2 .000 E
.005

3 .015 W
.015

600 Upstream

1 .02 E
.01

2 .30 E
.29

3 .01 E
.01

625 Upstream

1 .04 E
.04

2 .05 E
.05

3 .04 E
.04

4 .01 E
.02

Meyer
Salgado
Walton

36

B.M. 0.51 581.77 581.26

1 6.78 574.99 01+

2 6.78 574.99 00

3 6.80 574.97 02+

Downstream Toewall

B.M. 12.56 576.21 563.65

1 1.17 575.04 02+

2 1.19 575.02 00

3 1.29 574.92 02+

600 Upstream

B.M. 1.78 606.91 605.13

1 6.65 600.26 02-

2 6.14 600.77 22-

3 6.23 600.68 00

625 Upstream

B.M. 3.42 629.63 626.21

1 3.36 626.27 02-

2 4.14 625.49 03-

3 3.28 626.35 03-

4 4.58 625.05 02-

Movement of Monuments Cont.

Oct. 31, 1934

650 Upstream

Total

Mon. No. Move

1	.03 .03	E
2	.04 .04	E
3	.23 .23	E
4	.02 .01	W
5	.00 .00	

B.M. 0.10 655.89 655.79

1	5.16	650.73	03-
2	4.68	651.21	04-
3	4.99	650.90	03-
4	5.61	650.28	01-
5	5.42	650.47	04-

675 Upstream

1	.09 .09	E
2	.10 .09	E
3	.07 .07	E
4	.10 .12	E
5	.06 .06	E
6	.02 .03	E
7	.02 .04	E

B.M. 4.78 680.05 673.27

1	4.73	675.32	02-
2	5.10	674.95	06-
3	4.14	675.91	05-
4	3.65	676.40	06-
5	4.17	675.88	06-
6	4.74	675.31	06-
7	4.27	675.78	03-

Movement of Monuments Cont.

Oct. 31, 1934

700 Upstream

Mon. No. Move

1	.05 .05	E	Been Disturbed
2	.10 .09	E	
3	.10 .08	E	
4	.10 .11	E	
5	.03 .03	E	
6	.07 .07	E	
7	.10 .08	E	
8	.02 .02	E	

725 Upstream

1	.00 .01	W	
2	.01 .01	W	
3	.00 .01	W	
4	.00 .00		
5	.04 .02	W	
6	.01 .00	W	
7	.00 .00	E	
8	.01 .00	E	

B.M. 0.67 709.20

708.53

1	By Large Rock	12.51	696.69	06-
2		11.52	697.68	18-
3		10.38	698.82	11-
4		9.82	699.39	12-
5		8.57	700.63	71-
6		6.67	702.53	14-
7		5.61	703.59	29-
8				

B.M. 725 Upstream 3.66

705.54

1	7.72	731.41	4.39	727.02	01-
2			4.58	726.83	00
3			5.61	725.80	01-
4			3.80	727.61	01+
5			3.60	727.81	05-
6			4.73	726.68	05-
7			4.78	726.63	02-
8			5.47	725.94	00

Movement of Monuments Cont.

Oct. 31, 1934

725 Downstream

39

Mon. No. Total Move

1	.06 .06	E
2	.09 .09	E
3	.10 .10	E
4	.09 .09	E
5	.12 .13	E
6	.03 .03	E
7	.00 .01	E

B.M. 3.65 730.51 726.86

1	2.98	727.53	14-
2	3.02	727.49	24-
3	3.21	727.30	27-
4	4.53	725.98	28-
5	4.09	726.42	28-
6	6.50	724.01	22-
7	6.51	724.00	09-

700 Downstream

1	.07 .08	W
2	.05 .05	W
3	.02 .02	W
4	.02 .02	W
5	.07 .07	W
6	.06 .06	W

B.M. 12.10 706.19 694.09

1	5.05	701.14	15-
2	4.42	701.77	09-
3	4.13	702.06	31-
4	4.38	701.81	07-
5	4.67	701.52	12-
6	5.12	701.07	00

Movement of Monuments Cont.

Oct. 31, 1934

675 Downstream

Mon. No. Move

Mon. No.	Move	
	⁰⁴ 05	W
1	.05	W
2	.06	W
3	.08 .09	W
4	.09 .09	W
5	.07 .07	W
6	.03 .03	W
7	.03 .03	W

B.M. 434 679.07

674.73

1	3.15	675.92	01-
2	3.88	675.19	05-
3	3.37	675.70	05-
4	2.87	676.20	05-
5	3.19	675.89	05-
6	3.54	675.53	05-
7	3.79	675.28	03-

650 Downstream

1	.02 .02	W
2	.05 .07	W
3	.05 .05	W
4	.22 .22	W
5	.02 .02	W
6	.04 .04	W
7	.03 .04	W

B.M. 645 655.82

649.37

1	5.46	650.36	00
2	5.24	650.58	01-
3	5.78	650.04	01-
4	4.98	650.84	22-
5	4.74	651.06	00
6	5.02	650.80	01-
7	5.37	650.45	01+

Movement of Monuments Cont.
Oct. 31, 1934

625 Downstream

Mon. No. Total Move

1	.01 .00	E
2	.01 .01	W
3	.00 .00	
4	.01 .01	E

B.M. 1.06 628.72 627.66

1	3.25	625.47	01-
2	3.02	625.70	02-
3	2.35	626.37	02-
4	2.24	626.46	02-

600 Downstream

1	.04 .04	W
2	.11 .11	W
3	.00 .00	

B.M. 5.89 605.55 599.66

1	4.84	600.71	04+
2	4.88	600.67	19-
3	4.06	601.49	01+

Movement of Monuments

Nov. 1 1934

600 Upstream

Total

Mon. No.	Move	
1	.02 .01	E
2	.30 .29	E
3	.01 .01	E

Meier
Salgado
Walton

42

B.M.	175	606.88	605.13
1		6.61	600.27 01-
2		6.10	600.78 21-
3		4.20	600.68 00

625 Upstream

1	.05 .04	E
2	.05 .05	E
3	.05 .05	E
4	.02 .02	E

B.M.	354	629.75	626.21
1		3.48	626.27 02-
2		4.25	625.50 02-
3		3.40	626.35 03-
4		4.69	625.06 01-

650 Upstream

1	.04 .04	E
2	.05 .05	E
3	.23 .23	E
4	.00 .00	
5	.02 .02	E

B.M.	002	655.81	655.79
1		5.07	650.74 02-
2		4.59	651.24 03-
3		4.90	650.91 42-
4		5.52	650.29 00
5		5.33	650.49 03-

Movement of Monuments Cont.

Nov. 1, 1934

675 Upstream

675 Upstream

Mon. No. Total Move

B.M. 5.80 679.07 673.27

1	.10	E
	.10	
2	.10	E
	.10	
3	.09	E
	.08	
4	.10	E
	.10	
5	.06	E
	.06	
6	.03	E
	.02	
7	.03	E
	.04	

1	3.75	675.32	02-
2	4.11	675.96	05-
3	3.17	675.90	06-
4	2.67	676.40	06-
5	3.20	675.87	07-
6	3.77	675.30	07-
7	3.29	675.79	02-

700 Upstream

700 Upstream

B.M. 1.04 709.57 708.53

1	.05	E
	.05	
2	.08	E
	.08	
3	.09	E
	.08	
4	.11	E
	.11	
5	.02	E
	.02	
6	.08	E
	.07	
7	.10	E
	.11	
8	.05	E
	.05	

1	12.87	696.70	05-
2	11.90	697.67	19-
3	10.75	698.82	11-
4	10.20	699.37	14-
5	8.94	700.63	71-
6	7.05	702.52	15-
7	6.00	703.57	31-
8	4.03	705.54	05-

Movement of Monuments Cont.

Nov. 1, 1934

725 Upstream

Mon. No. Total Move

1	.01 .00	E
2	.01 .00	E
3	.00 .00	
4	.02 .01	E
5	.01 .00	E
6	.01 .01	W
7	.00 .00	
8	.00 .01	E

725 Downstream

1	.05 .05	E
2	.09 .09	E
3	.12 .10	E
4	.09 .09	E
5	.13 .13	E
6	.03 .04	E
7	.00 .00	

725- Upstream

B.M. 8.47	732.14	723.69
1	5.15	727.01 02-
2	5.35	726.81 02-
3	6.38	725.78 03-
4	4.57	727.59 01-
5	4.37	727.79 07-
6	5.49	726.67 06-
7	5.55	726.61 04-
8	6.25	725.91 03-

725 Downstream

B.M. 3.34	730.20	726.86
1	2.67	727.53 14-
2	2.70	727.50 23-
3	2.90	727.30 27-
4	4.22	725.95 28-
5	3.78	726.42 28-
6	6.19	724.01 22-
7	6.19	724.01 08-

Movement of Monuments

Nov. 1, 1934

700 Downstream

Total

Mon. No. Move

B.M. 12.08 706.17

694.09

1	.07	W
	.07	
2	.04	W
	.04	
3	.02	W
	.03	
4	.01	W
	.02	
5	.06	W
	.04	
6	.06	W
	.04	

1	5.04	701.13	16-
2	4.40	701.77	09-
3	4.12	702.05	22-
4	4.37	701.80	08-
5	4.65	701.52	12-
6	5.11	701.06	01-

675 Downstream

B.M. 5.42 680.15

674.73

1	.03	W
	.03	
2	.05	W
	.04	
3	.07	W
	.07	
4	.09	W
	.09	
5	.06	W
	.07	
6	.05	W
	.05	
7	.03	W
	.04	

1	4.21	675.94	01+
2	4.94	675.21	03-
3	4.43	675.72	03-
4	3.93	676.22	03-
5	4.24	675.91	03-
6	4.60	675.55	03-
7	4.85	675.30	01-

Movement of Monuments Cont.

Nov. 1, 1934

650 Downstream

46

Mon. No. Total Move

1	.02 .02	W
2	.06 .06	W
3	.06 .06	W
4	.23 .23	W
5	.03 .03	W
6	.05 .05	W
7	.04 .04	W

625 Downstream

1	.00 .00	
2	.01 .02	W
3	.00 .00	
4	.01 .01	E

600 Downstream

1	.03 .03	W
2	.12 .12	W
3	.00 .00	

B.M. 6.35 655.72

649.37

1	5.36	650.36	00
2	5.14	650.58	01-
3	5.48	650.04	01-
4	4.88	650.84	22-
5	4.66	651.04	00
6	4.92	650.80	01-
7	5.26	650.44	02+

625 Downstream

B.M. 0.94 628.60

627.66

1	3.12	625.48	00
2	2.88	625.72	00
3	2.22	626.38	01-
4	2.14	626.46	02-

600 Downstream

B.M. 5.51 605.17

599.66

1	4.47	600.70	03+
2	4.50	600.67	19-
3	3.69	601.48	00

Movement of Monuments
Nov. 2, 1934

600 Upstream

Mon. No.	Total Move	
1	.01	E
	.01	
2	.29	E
	.29	
3	.02	E
	.02	

625 Upstream

1	.04	E
	.04	
2	.05	E
	.05	
3	.04	E
	.04	
4	.02	E
	.02	

650 Upstream

1	.02	E
	.02	
2	.04	E
	.04	
3	.23	E
	.23	
4	.01	W
	.00	
5	.01	E
	.01	

Meyer
Salgado
Walton

47

B.M. 175 606.88 605.13

1	6.62	600.26	02-
2	6.12	600.74	23-
3	6.21	600.67	01-

B.M. 370 629.91 626.21

1	3.64	626.27	02-
2	4.42	625.49	03-
3	3.56	626.35	03-
4	4.84	625.07	00

B.M. 010 655.89 655.79

	5.14	650.73	03-
	4.68	651.21	04-
	4.99	650.90	43-
	5.62	650.27	02-
	5.41	650.48	03-

Movement of Monuments Cont.

Nov. 2, 1934

675 Upstream

48

Total
Mon. No. Move.

1	.09 .09	E
2	.10 .10	E
3	.08 .08	E
4	.12 .14	E
5	.10 .10	E
6	.03 .03	E
7	.01 .01	E

700 Upstream

1	.04 .05	E
2	.08 .09	E
3	.09 .10	E
4	.12 .12	E
5	.00 .00	
6	.05 .07	E
7	.09 .09	E
8	.05 .05	E

B.M. 4.23 679.50

673.27

1	4.20	675.30	04-
2	4.55	674.95	06-
3	3.61	675.89	07-
4	3.11	676.39	07-
5	3.64	675.86	08-
6	4.22	675.28	09-
7	3.73	675.77	04-

700 Upstream

B.M. 0.03 708.56

708.53

1	11.87	696.69	06-
2	10.89	697.67	19-
3	9.75	698.81	12-
4	9.10	699.36	15-
5	7.94	700.42	72-
6	6.05	702.51	16-
7	4.98	703.58	30-
8	3.03	705.53	06-

Movement of Manumemts Cont.

Nov. 2, 1934

725 Upstream

Mon. No. Total Move

1	.03	E
	.01	
2	.02	E
	.00	
3	.01	E
	.00	
4	.01	E
	.00	
5	.00	
	.00	
6	.00	
	.00	
7	.00	
	.00	
8	.00	
	.00	

725 Downstream

1	.05	E
	.04	
2	.09	E
	.09	
3	.12	E
	.12	
4	.09	E
	.09	
5	.13	E
	.10	
6	.04	E
	.03	
7	.00	
	.00	

B.M. 702 730.71

723.69

1	3.73	724.98	05-
2	3.92	726.79	04-
3	4.94	725.77	04-
4	3.14	727.57	03-
5	2.94	727.77	09-
6	4.07	726.44	09-
7	4.12	726.59	06-
8	4.81	725.90	04-

725 Downstream

B.M. 3.74 730.60

726.86

1	3.08	727.52	15-
2	3.13	727.47	26-
3	3.33	727.27	30-
4	4.44	725.96	30-
5	4.20	726.40	30-
6	6.60	724.00	23-
7	6.60	724.00	09-

Movement of Monuments Cont.

Nov. 2, 1934

700 Downstream

Total

50

Mon. No. Move

B.M. 12.10 706.19

694.09

1 .07 W
.08

1

5.06 701.13 16-

2 .04 W
.05

2

4.43 701.76 10-

3 .02 W
.02

3

4.15 702.04 33-

4 .02 W
.02

4

4.41 701.78 10-

5 .04 W
.04

5

4.69 701.50 14-

6 .05 W
.04

6

5.14 701.05 02-

675 Downstream

B.M. 648 681.21

674.73

1 .03 W
.03

1

5.28 675.93 00

2 .06 W
.08

2

6.01 675.20 04-

3 .08 W
.08

3

5.51 675.70 05-

4 .09 W
.10

4

5.00 676.21 04-

5 .06 W
.07

5

5.31 675.90 04-

6 .04 W
.04

6

5.68 675.53 05-

7 .04 W
.04

7

5.92 675.29 02-

Movement of Monuments Cont.

Nov. 2, 1934

650 Downstream

Total

Mon. No. Move

1	.02 .02	W
2	.06 .06	W
3	.06 .06	W
4	.22 .22	W
5	.03 .03	W
6	.04 .04	W
7	.04 .04	W

B.M. 4.22 455.59 649.37

1	5.24	650.35	01-
2	5.03	650.54	03-
3	5.56	650.03	02-
4	4.77	650.82	24-
5	4.55	651.04	02-
6	4.80	650.79	02-
7	5.16	650.43	01-

625 Downstream

1	.00 .00	
2	.01 .01	W
3	.00 .00	W
4	.00 .00	

B.M. 1.25 628.91 627.66

1	3.43	625.48	00
2	3.20	625.71	01-
3	2.53	626.38	01-
4	2.45	626.46	02-

600 Downstream

1	.04 .04	W
2	.12 .12	W
3	.00 .00	

B.M. 5.20 604.86 599.66

1	4.16	600.70	03+
2	4.19	600.97	19-
3	3.38	601.48	00

Movement of Monuments

Nov. 3, 1934

650 Upstream

Meyer
Salgado
Walton

52

Mon. No. Total Move

B. M. 0.27 656.06 655.79

1	.04	E
	.04	
2	.06	E
	.04	
3	.23	E
	.23	
4	.00	
	.00	
5	.03	E
	.03	

1	5.35	650.71	05-
2	4.88	651.19	07-
3	5.18	650.88	05-
4	5.81	650.25	04-
5	5.61	650.45	06-

675 Upstream

B. M. 6.43 679.70 673.27

1	.10	E
	.10	
2	.10	E
	.10	
3	.07	E
	.08	
4	.13	E
	.11	
5	.06	E
	.06	
6	.03	E
	.02	
7	.04	E
	.02	

1	4.39	675.31	03-
2	4.75	674.95	06-
3	3.80	675.90	06-
4	3.31	676.39	07-
5	3.84	675.76	18-
6	4.42	675.28	09-
7	3.93	675.77	04-

Movement of Monuments Cont

Nov. 3, 1934

700 Upstream

Total

Mon. No. Move

1	.05	E
	.05	
2	.09	E
	.09	
3	.07	E
	.08	
4	.12	E
	.12	
5	.01	E
	.02	
6	.05	E
	.09	
7	.05	E
	.10	
8	.00	E
	.05	

725 Upstream

1	.02	E
	.01	
2	.00	
	.00	
3	.00	
	.00	
4	.02	E
	.02	
5	.00	E
	.01	
6	.00	
	.00	
7	.01	W
	.00	
8	.02	E
	.02	

B.M.

013

708.66

708.53

1

11.94 696.70 05-

2

10.94 697.70 16-

3

9.84 698.82 11-

4

9.29 699.37 14-

5

8.02 700.64 70-

6

6.13 702.53 35-

7

5.04 703.60 01+

8

B.M.

725 Upstream

3.11

705.55

723.69

1

7.01

730.70

3.70

727.00 03-

2

3.91 726.79 04-

3

4.93 725.77 04-

4

3.13 727.57 03-

5

2.93 727.77 09-

6

4.05 726.65 08-

7

4.11 726.59 06-

8

4.79 725.91 03-

Movement of Monuments Cont.
Nov. 3, 1934

54

725 Downstream

Mon. No.	Total Move		B. M.	3.38	730.24	726.86
1	.05 .05	E	1		2.72	727.52 15-
2	.09 .09	E	2		2.77	727.47 26-
3	.11 .11	E	3		2.97	727.27 20-
4	.08 .08	E	4		4.28	725.96 30-
5	.12 .12	E	5		3.84	726.40 30-
6	.03 .03	E	6		4.24	724.00 23-
7	.01 .00	E	7		4.24	724.00 09-

700 Downstream

			B. M.	11.95	706.04	694.09
1	.07 .08	W	1		4.91	701.13 16-
2	.06 .04	W	2		4.29	701.75 09-
3	.03 .03	W	3		4.01	702.03 34-
4	.03 .03	W	4		4.24	701.79 10-
5	.08 .08	W	5		4.53	701.51 13-
6	.06 .06	W	6		4.97	701.07 00

Movement of Monuments Cont.

Nov. 3, 1934

675 Downstream

55

Mon. No.	Total Move		B.M.	3.54	678.27	674.73
1	.05	W				
	.05					
2	.04	W			2.35	675.92 01-
	.06					
3	.09	W			3.08	675.19 05-
	.09					
4	.10	W			2.54	675.71 04-
	.10					
5	.08	W			2.04	676.21 04-
	.08					
6	.05	W			2.37	675.90 04-
	.05					
7	.05	W			2.74	675.53 05-
	.04					
7					2.98	675.29 02-

650 Downstream

B.M. 6.31 655.68 649.37

1					5.31	650.37 01+
2					5.10	650.58 01-
3					5.65	650.03 02-
4					4.84	650.84 22-
5					4.62	651.06 00
6					4.87	650.81 00
7					5.21	650.47 03+

Movement of Monuments

Nov. 5, 1934
600 Upstream

Total
Mon. No. Move

1	.01	E
	.01	
2	.30	E
	.30	
3	.01	E
	.01	

625 Upstream

1	.05	E
	.05	
2	.06	E
	.06	
3	.05	E
	.05	
4	.01	E
	.02	

650 Upstream

1	.03	E
	.03	
2	.04	E
	.04	
3	.22	E
	.22	
4	.00	
	.00	
5	.03	E
	.03	

Meyer
Salgado
Walton

56

B.M. 183 606.96 605.13

1	6.70	600.24	02-
2	6.19	600.77	22-
3	6.29	600.67	01-

B.M. 345 629.66 626.21

1	3.39	626.27	02-
2	4.17	625.49	03-
3	3.32	626.34	04-
4	4.61	625.05	02-

B.M. 043 656.22 655.79

	5.49	650.73	03-
	5.01	651.21	04-
	5.32	650.90	23-
	5.95	650.27	02-
	5.75	650.47	04-

Movement of Monuments Cont.

Nov. 5th 1934

675 Upstream

57

Mon. No. Total Move

1	.08 .10	E
2	.10 .11	E
3	.07 .09	E
4	.11 .11	E
5	.06 .08	E
6	.02 .04	E
7	.02 .04	E

B.M. 669 679.96 673.27

1	4.66	675.30	04-
2	5.03	674.93	08-
3	4.08	675.88	08-
4	3.58	674.38	08-
5	4.11	675.85	09-
6	4.68	675.28	09-
7	4.19	675.77	04-

700 Upstream

1	.04 .06	E
2	.08 .10	E
3	.08 .09	E
4	.10 .12	E
5	.03 .05	E
6	.07 .07	E
7	.11 .11	E
8	.06 .07	E

B.M. 700 Upstream 608 708.61 708.53

1	11.92	696.49	06-
2	10.95	697.66	20-
3	9.82	698.79	14-
4	9.27	699.34	17-
5	8.01	700.60	74-
6	6.12	702.49	18-
7	5.04	703.57	31-
8	3.07	705.54	05-

Movement of Monuments Cont.

Nov. 5th 1934

725 Upstream

Mon. No. Total Move

1	.03 .01	E
2	.02 .00	E
3	.00 .00	
4	.01 .01	E
5	.00 .00	
6	.01 .00	W
7	.01 .00	W
8	.00 .00	

B.M. 7.89 731.58 723.69

1	4.60	726.98	05-
2	4.82	726.76	07-
3	5.85	725.73	08-
4	4.06	727.52	08-
5	3.86	727.72	14-
6	4.98	726.40	13-
7	5.02	726.54	09-
8	5.69	725.88	06-

725 Downstream

1	.05 .04	E
2	.09 .08	E
3	.12 .11	E
4	.09 .09	E
5	.13 .12	E
6	.04 .04	E
7	.00 .00	

725 Downstream
B.M. 3.43 730.29 726.86

1	2.76	727.53	14-
2	2.83	727.46	27-
3	3.04	727.25	32-
4	4.34	725.95	31-
5	3.90	720.39	31-
6	6.30	723.99	24-
7	6.29	724.00	09-

Movement of Monuments Cont.

Nov. 5, 1934

700 Downstream

Mon. No.	Total Move		B. M.	12.07	706.14	694.09
1	.06 .06	W	1			5.04 701.12 17-
2	.05 .05	W	2			4.42 701.74 12-
3	.04 .04	W	3			4.14 702.02 35-
4	.02 .02	W	4			4.39 701.77 11-
5	.05 .05	W	5			4.67 701.49 15-
6	.07 .08	W	6			5.11 701.05 02-

675 Downstream

			B. M.	5.45	680.18	674.73
1	.03 .04	W	1			4.26 675.92 01-
2	.06 .04	W	2			4.99 675.19 05-
3	.08 .09	W	3			4.48 675.70 05-
4	.09 .09	W	4			3.98 676.20 05-
5	.08 .07	W	5			4.30 675.88 06-
6	.07 .07	W	6			4.64 675.52 06-
7	.05 .05	W	7			4.89 675.29 02-

Movement of Monuments Cont.

Nov. 5, 1934

650 Downstream

Mon. No. Total Move

1	.02 .03	
2	.06 .07	W
3	.06 .06	W
4	.22 .22	W
5	.04 .04	W
6	.04 .04	W
7	.04 .04	W

625 Downstream

1	.00 .00	
2	.00 .01	W
3	.00 .01	W
4	.01 .00	E

600 Downstream

1	.04 .04	W
2	.12 .12	W
3	.00 .00	

B.M. 645 655.82 649.37

1	5.46	650.36	00
2	5.24	650.58	01-
3	5.78	650.04	01-
4	4.98	650.84	22-
5	4.78	651.04	02-
6	5.03	650.79	02-
7	5.37	650.45	01+

625 Downstream

B.M. 131 628.97 627.66

1	3.49	625.48	00
2	3.25	625.72	00
3	2.58	626.39	00
4	2.51	626.46	02-

600 Downstream

B.M. 552 605.18 599.66

1	4.47	600.71	04+
2	4.50	600.69	18-
3	3.09	601.49	01+

Movement of Monuments

Nov. 6, 1934
650 Upstream

Mon. No.	Total Move	
1	.04 .04	E
2	.05 .04	E
3	.22 .22	E
4	.00 .00	
5	.03 .03	E

675 Upstream

1	.09 .09	E
2	.11 .11	E
3	.09 .09	E
4	.12 .14	E
5	.08 .08	E
6	.03 .03	E
7	.05 .05	E

Meyer
Salgado
Walton

61

B.M.	0.53	654.32	655.79
1		5.60	650.72 04-
2		5.11	651.21 04-
3		5.42	650.90 03-
4		6.05	650.27 02-
5		5.85	650.47 04-

B.M.	4.94	680.23	673.27
1		4.92	675.31 03-
2		5.29	674.94 07-
3		4.35	675.98 08-
4		3.85	676.38 08-
5		4.39	675.94 10-
6		4.94	675.29 08-
7		4.46	675.77 04-

Movement of Monuments Cont.

Nov. 6, 1934

700 Upstream

Total

Mon. No. Move

1 .04 E
.05

2 .08 E
.10

3 .09 E
.11

4 .10 E
.12

5 .01 E
.03

6 .06 E
.08

7 .10 E
.11

8 .04 E
.06

725 Upstream

1 .01 E
.02

2 .00 E
.01

3 .00

4 .00 E
.02

5 .01 W
.00

6 .01 W
.00

7 .00 E
.01

8 .00 E
.02

B.M. 0.10 708.43

708.53

1 11.93 696.70 05-

2 10.95 697.68 18-

3 9.82 698.51 12-

4 9.26 699.37 14-

5 8.01 700.42 ~~05-~~
72-

6 6.12 702.51 ~~37-~~
16-

7 5.03 703.60 ~~01+~~
28-

8 305 705.55 04-

B.M.

725 Upstream

723.69

1 6.97 730.66 3.68 726.98 05-

2 3.90 726.76 07-

3 4.93 725.73 09-

4 3.14 727.52 08-

5 2.93 727.73 13-

6 4.05 726.61 12-

7 4.09 726.57 08-

8 4.75 725.91 03-

Movement of Monuments Cont.

Nov. 6, 1934

725 Downstream

63

Mon. No.	Total Move.		B.M. 2.90	729.74	726.86
	.05				
1	.04	E	1	2.24	727.52 15-
2	.09	E	2	2.31	727.45 28-
	.08				
3	.11	E	3	2.52	727.24 32-
	.09				
4	.09	E	4	3.82	725.94 32-
	.13				
5	.13	E	5	3.39	726.37 33-
	.04				
6	.04	E	6	5.78	723.98 25-
	.01				
7	.00	E	7	5.78	723.98 11-

700 Downstream

			B.M. 12.05	706.14	694.09
1	.08	W	1	5.02	701.12 17-
	.08				
2	.06	W	2	4.40	701.74 12-
	.06				
3	.03	W	3	4.13	702.01 36-
	.03				
4	.02	W	4	4.37	701.77 11-
	.04				
5	.07	W	5	4.64	701.50 14-
	.07				
6	.07	W	6	5.08	701.04 01-
	.08				

Movement of Monuments Cont.
Nov. 6, 1934

64

675 Downstream

Mon. No. Total Move

1	.03	W
	.03	
2	.07	W
	.07	
3	.08	W
	.10	
4	.10	W
	.10	
5	.07	W
	.08	
6	.08	W
	.07	
7	.06	W
	.06	

B.M. 454 679.27 674.73

1	3.34	675.93	00
2	4.08	675.19	05-
3	3.57	675.70	05-
4	3.07	676.20	05-
5	3.38	675.89	05-
6	3.74	675.53	05-
7	3.97	675.30	01-

650 Downstream

1	.02	W
	.03	
2	.06	W
	.06	
3	.06	W
	.07	
4	.12	W
	.22	
5	.03	W
	.03	
6	.04	W
	.04	
7	.04	W
	.04	

B.M. 640 655.77 649.37

1	5.41	650.34	00
2	5.20	650.57	02-
3	5.74	650.03	02-
4	4.95	650.82	24-
5	4.72	651.05	01-
6	4.98	650.79	02-
7	5.32	650.45	01+

Movement of Monuments

Nov. 7, 1934

600 Upstream

Total

Mon. No. Move

1 .02
.01 E

2 .30
.30 E

3 .01
.01 E

625 Upstream

1 .05
.05 E

2 .06
.06 E

3 .06
.05 E

4 .02
.02 E

650 Upstream

1 .05
.04 E

2 .05
.05 E

3 .22
.22 E

4 .00
.00

5 .03
.03 E

Meyer
Salgado
Walton

B.M. 1.81 606.94 605.13

1 6.67 600.27 01-

2 6.18 600.76 23-

3 4.27 600.67 01-

B.M. 3.15 629.36 626.21

1 3.09 626.27 02-

2 3.87 625.49 03-

3 3.01 626.35 03-

4 4.30 625.06 01-

B.M. 0.39 656.18 655.79

1 5.44 650.74 02-

2 4.97 651.21 04-

3 5.28 650.90 43-

4 5.90 650.28 01-

5 5.70 650.48 03-

Movement of Monument Cont.

Nov. 7, 1934

675 Upstream

66

Mon. No. Move

Mon. No.	Move	
1	.10 .10	E
2	.12 .12	E
3	.09 .11	E
4	.12 .12	E
5	.09 .09	E
6	.03 .03	E
7	.05 .05	E

700 Upstream

Mon. No.	Move		
1	.06 .06	E	Disturbed
2	.08 .08	E	
3	.10 .10	E	
4	.10 .11	E	
5	.03 .04	E	
6	.06 .06	E	
7	.09 .09	E	
8	.06 .07	E	

B.M. 6.69 679.96

673.27

Mon. No.	Move			
1			4.65	675.31 03-
2			5.01	674.95 06-
3			4.07	675.89 07-
4			3.57	676.39 07-
5			4.10	675.86 08-
6			4.67	675.29 08-
7			4.19	675.77 04-

700 Upstream

B.M. 0.09 708.62

708.53

Mon. No.	Move			
1			11.92	696.70 05-
2			10.94	697.68 18-
3			9.82	698.80 13-
4			9.24	699.36 15-
5			8.00	700.62 72-
6			6.12	702.50 17-
7			5.04	703.58 30-
8			3.07	705.55 04-

Movement of Monuments Cont.

Nov. 7, 1934

725 Upstream

Mon. No. Move

Mon. No.	Move	
1	.04 .03	E
2	.02 .02	E
3	.00 .00	
4	.01 .02	E
5	.01 .01	E
6	.00 .00	
7	.00 .01	E
8	.00 .00	

B.M. 784 781.53

723.69

1	4.53	727.00	03-
2	4.76	726.77	06-
3	5.79	725.74	07-
4	4.01	727.52	08-
5	3.81	727.72	14-
6	4.93	724.60	13-
7	4.97	726.56	09-
8	15.63	725.90	04-

725 Downstream

Mon. No.	Move	
1	.04 .03	E
2	.09 .08	E
3	.11 .10	E
4	.09 .08	E
5	.13 .12	E
6	.03 .02	E
7	.00 .00	

B.M. 324 730.10

726.86

725 Downstream			
1	2.59	727.51	16-
2	2.64	727.44	29-
3	2.84	727.24	33-
4	4.17	725.93	33-
5	3.73	726.37	33-
6	4.12	723.98	25-
7	6.10	724.00	09-

Movement of Monuments Cont.
Nov. 7, 1934

68

700 Downstream

Mon. No.	Total Move		B.M.	12.09	706.18	694.09
1	.07 .08	W	1			5.06 701.12 17-
2	.06 .06	W	2			4.44 701.74 12-
3	.01 .03	W	3			4.17 702.01 36-
4	.02 .02	W	4			4.41 701.77 11-
5	.09 .09	W	5			4.68 701.50 14-
6	.06 .06	W	6			5.12 701.06 01-

675 Downstream

			B.M.	4.56	679.29	674.73
1	.04 .04	W	1			3.37 675.92 01-
2	.06 .07	W	2			4.10 675.19 05-
3	.09 .10	W	3			3.59 675.70 05-
4	.10 .10	W	4			3.08 676.21 04-
5	.08 .08	W	5			3.40 675.89 05-
6	.07 .07	W	6			3.77 675.52 06-
7	.05 .05	W	7			4.00 675.29 02-

Movement of Monuments Cont.

Nov. 7, 1934

650 Downstream

Mon. No. Total Move

1	.02	W
	.02	
2	.06	W
	.07	
3	.06	W
	.06	
4	.22	W
	.22	
5	.04	W
	.04	
6	.04	W
	.04	
7	.04	W
	.04	

B.M. 429 455.66 649.37

1	5.30	650.84	00
2	5.08	650.58	01-
3	5.42	650.04	01-
4	4.83	650.83	23-
5	4.61	651.05	01-
6	4.87	650.79	02-
7	5.21	650.45	01+

625 Downstream

1	.00	
	.00	
2	.00	
	.00	
3	.00	
	.00	
4	.00	
	.00	

B.M. 0.54 628.20 627.66

625 Downstream

1	2.72	625.48	00
2	2.49	625.71	01-
3	1.82	626.38	01-
4	1.74	626.46	02-

600 Downstream

1	.03	W
	.03	
2	.12	W
	.12	
3	.00	
	.00	

B.M. 5.61 605.27 599.66

600 Downstream

1	4.56	600.71	01+
2	4.59	600.68	18-
3	3.77	601.50	02+

Movement of Monuments
Nov. 8, 1934

Upstream Toewall

Total
Mon. No. Move

1	.000 .010	W
2	.005 .000	E
3	.005 .000	E

Downstream Toewall

1	.015 .020	W
2	.010 .000	E
3	.015 .020	W

600 Upstream

1	.01 .01	E
2	.30 .30	E
3	.02 .02	E

625 Upstream

1	.05 .05	E
2	.05 .05	E
3	.05 .05	E
4	.03 .03	E

Meyer
Salgado
Walton

B.M.	0.71	581.97	581.26	
1			6.99	574.98 00
2			6.99	574.98 01-
3			7.00	574.97 02+
		Downstream Toewall		
B.M.	12.79	576.44	563.65	
1			1.39	575.05 00
2			1.40	575.04 60
3			1.49	574.95 60
		600 Upstream		
B.M.	2.75	607.88	605.13	
1			7.63	600.25 03-
2			7.13	600.75 24-
3			7.22	600.66 02-
		625 Upstream		
B.M.	324	629.47	626.21	
1			3.20	626.27 02-
2			3.98	625.49 03-
3			3.12	626.35 03-
4			4.40	625.07 00

Movement of Monuments Cont.

Nov. 8, '34

650- Upstream

Mon. No.	Merc.		B.M.	0.41	656.20	655.79
	Total					
1	.03 .03	E			5.46	650.74 02-
2	.05 .05	E			4.99	651.21 04-
3	.23 .23	E			5.30	650.90 43-
4	.00 .00				5.93	650.27 02-
5	.02 .02	E			5.73	650.47 04-

675 Upstream

			B.M.	6.72	679.99	673.27
1	.09 .09	E			4.67	675.32 02-
2	.12 .11	E			5.05	674.94 07-
3	.09 .09	E			4.11	675.88 08-
4	.13 .13	E			3.61	676.38 08-
5	.10 .10	E			4.14	675.85 09-
6	.03 .03	E			4.70	675.29 08-
7	.05 .05	E			4.24	675.75 06-

Movement of Monuments Cont.

Nov. 8, '34

700- Upstream

Mon. No. Total Move

1 .05 E

2 .10 E

3 .10 E

4 .13 E

5 .03 E

6 .08 E

7 .10 E

8 .07 E

725- Upstream

1 .04 E

2 .03 E

3 .01 E

4 .03 E

5 .01 E

6 .00

7 .01 E

8 .01 E

B.M. .014 708.67

708.53

1 11.97 696.70 05-

2 11.02 697.65 21-

3 9.89 698.78 15-

4 9.33 699.34 17-

5 8.07 700.60 74-

6 6.17 702.50 17-

7 5.09 703.58 30-

8 3.12 705.55 04-

B.M

723.69

1 4.96 730.65 3.68 726.97 06-

2 3.90 724.75 08-

3 4.94 725.71 10-

4 3.15 727.50 10-

5 2.95 727.70 16-

6 4.06 726.59 14-

7 4.11 726.54 11-

8 4.77 725.88 06-

Movement of Monuments Cont.

Nov. 8 '34

725 Downstream

Total
Mon. No. Move.

1	.05	E
	.05	
2	.09	E
	.09	
3	.11	E
	.11	
4	.09	E
	.09	
5	.13	E
	.13	
6	.03	E
	.03	
7	.00	
	.00	

700- Downstream

1	.07	W
	.08	
2	.04	W
	.04	
3	.02	W
	.02	
4	.02	W
	.02	
5	.09	W
	.09	
6	.04	W
	.04	

Disturbed

73

B.M. 2.28 729.14 726.86

1.65 727.49 18-

1.70 727.44 29-

1.92 727.22 35-

3.24 725.90 36-

2.79 726.35 35-

5.18 723.96 27-

5.10 723.98 11-

B.M. 12.04 706.13 694.09

5.01 701.12 17-

4.39 701.74 12-

4.12 702.01 36-

4.36 701.77 11-

4.43 701.50 14-

5.07 701.06 01-

Movement of Monuments Cont.

675- Downstream

Mon. No.	Total Move.	
1	.04	W
2	.06	W
3	.09	W
4	.10	W
5	.08	W
6	.07	W
7	.05	W

B.M. 5.00 679.73 674.73

3.80 675.93 00

4.54 675.19 05-

4.03 675.70 05-

3.53 676.20 05-

3.85 675.88 06-

4.21 675.52 06-

4.45 675.28 03-

650- Downstream

1	.02	W
2	.06	W
3	.06	W
4	.22	W
5	.04	W
6	.04	W
7	.04	W

B.M. 6.24 655.61 649.37

5.27 650.34 02-

5.05 650.56 03-

5.59 650.02 03-

4.79 650.82 24-

4.58 651.03 03-

4.83 650.78 03-

5.17 650.44 00

Movement of Monuments Cont.

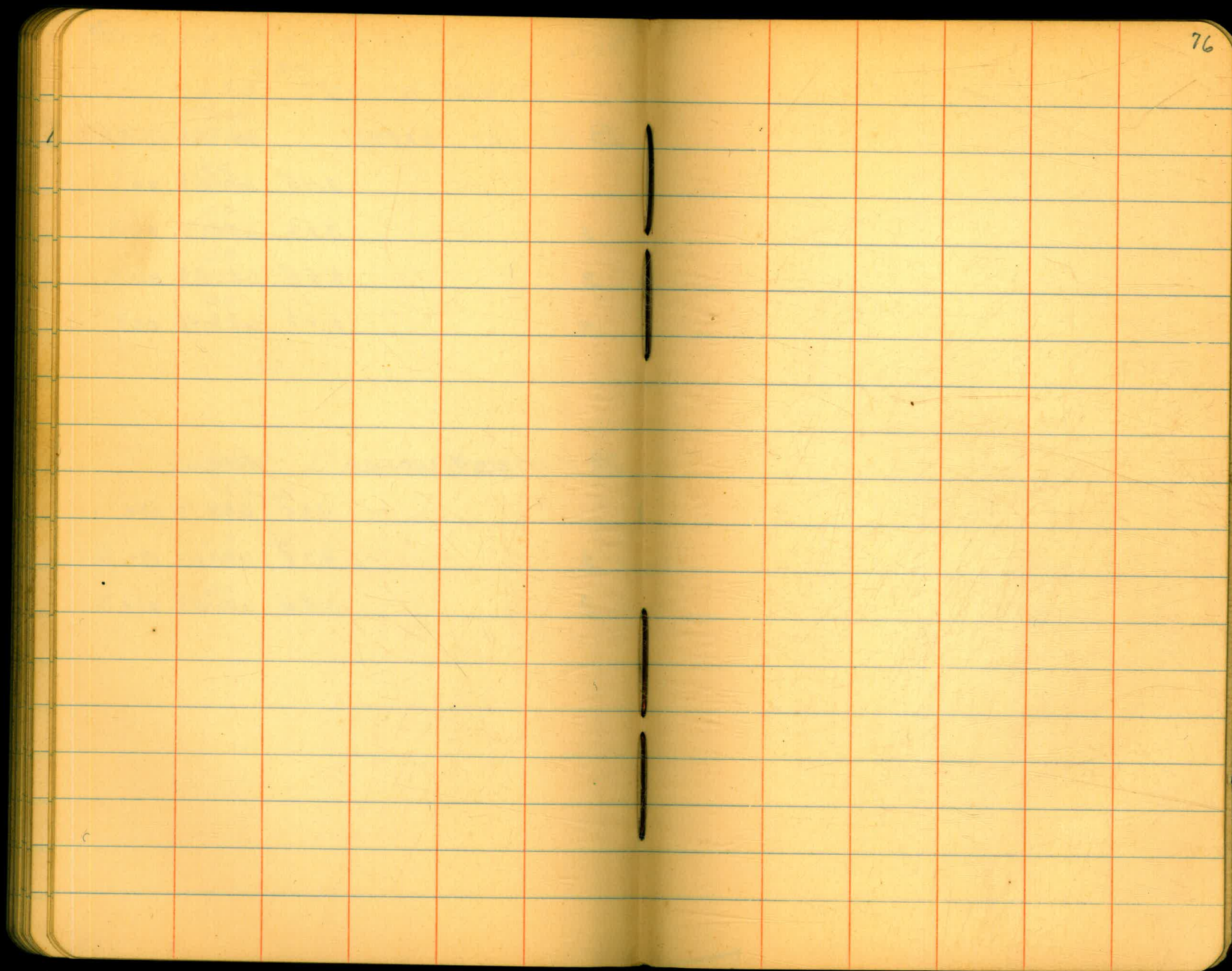
Nov. 8 '34

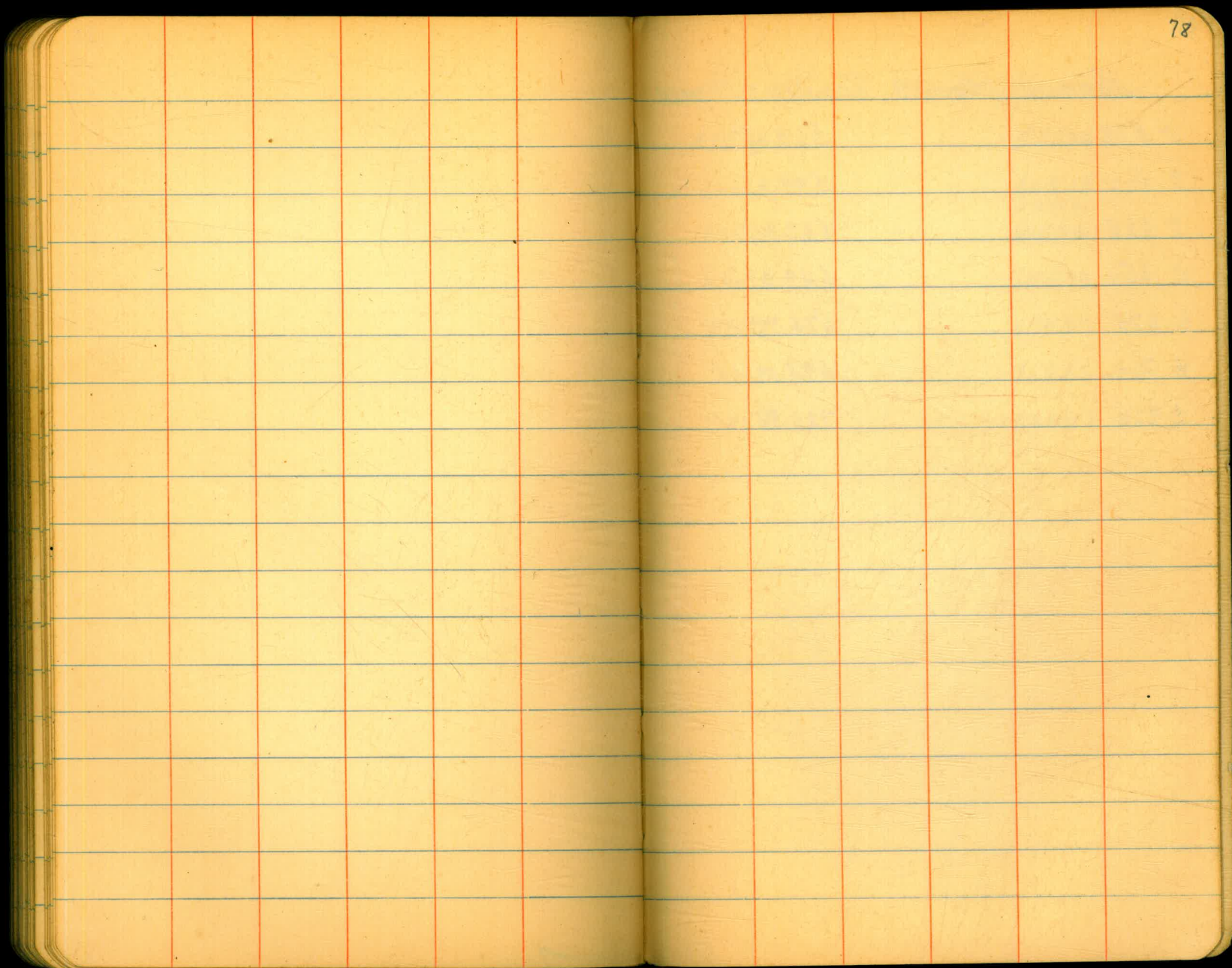
625- Downstream

Mon. No.	Total Move.	B.M.	127	628.93	627.66
1	.00 .00	1			3.45 625.48 00
2	.00 .00	2			3.22 625.71 01-
3	.00 .00	3			2.55 626.38 01-
4	.00 .00	4			2.47 626.46 02-

600- Downstream

		B.M.	539	605.05	599.66
1	.03 .03 W	1			4.35 600.70 03+
2	.10 .10 W	2			4.38 600.67 19-
3	.00 .00	3			3.56 601.49 01+





Bench Marks Downstream

± 575	563.65
± 600	599.66
± 625	627.66
± 650	649.37
± 675	674.73
± 700	694.09
± 725	726.86

Bench Marks Upstream

575 ±	581.26
600 ±	605.13
625 ±	626.21
	618.72
650 ±	655.79
675 ±	673.27
700 ±	708.53
725 ±	723.69

80

1
2
3
4
5
6
7
8
9
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
ne to
hs of
mple
43.9.
many.

CALCULATION OF EARTHWORK.

Width	HEIGHT														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.02	.04	.06	.07	.09	.11	.13	.15	.17	.18	.20	.22	.24	.26	.28
2	.04	.07	.11	.15	.18	.22	.26	.30	.33	.37	.41	.44	.48	.52	.56
3	.06	.11	.17	.22	.28	.33	.39	.44	.50	.56	.61	.67	.72	.78	.83
4	.07	.15	.22	.30	.37	.44	.52	.59	.67	.74	.81	.89	.96	1.04	1.11
5	.09	.19	.28	.37	.46	.56	.65	.74	.83	.93	1.02	1.11	1.20	1.30	1.39
6	.11	.22	.33	.44	.56	.67	.78	.89	1.00	1.11	1.22	1.33	1.44	1.55	1.67
7	.13	.26	.39	.52	.65	.78	.91	1.04	1.16	1.30	1.42	1.55	1.68	1.81	1.94
8	.15	.30	.44	.59	.74	.89	1.04	1.19	1.33	1.48	1.63	1.78	1.92	2.08	2.22
9	.17	.33	.50	.67	.83	1.00	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33	2.50
10	.18	.37	.56	.74	.93	1.11	1.30	1.48	1.67	1.85	2.04	2.22	2.41	2.59	2.78
11	.20	.41	.61	.82	1.02	1.22	1.43	1.63	1.83	2.04	2.24	2.44	2.65	2.85	3.06
12	.22	.44	.67	.89	1.11	1.33	1.56	1.78	2.00	2.22	2.44	2.67	2.89	3.11	3.33
13	.24	.48	.72	.96	1.20	1.44	1.68	1.92	2.16	2.41	2.65	2.89	3.13	3.37	3.61
14	.26	.52	.78	1.04	1.30	1.55	1.81	2.08	2.33	2.59	2.85	3.11	3.37	3.63	3.89
15	.28	.56	.83	1.11	1.39	1.67	1.94	2.22	2.50	2.78	3.06	3.33	3.61	3.89	4.17
16	.30	.59	.89	1.18	1.48	1.78	2.07	2.37	2.67	2.96	3.26	3.56	3.85	4.15	4.44
17	.31	.63	.94	1.26	1.57	1.89	2.20	2.52	2.83	3.15	3.46	3.78	4.09	4.41	4.72
18	.33	.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.33	4.67	5.00
19	.35	.70	1.06	1.41	1.76	2.11	2.46	2.82	3.17	3.52	3.87	4.22	4.57	4.92	5.28
20	.37	.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70	4.07	4.44	4.81	5.18	5.56
21	.39	.78	1.17	1.55	1.94	2.33	2.72	3.11	3.50	3.89	4.28	4.67	5.06	5.44	5.83
22	.41	.81	1.22	1.63	2.04	2.44	2.85	3.26	3.67	4.07	4.48	4.89	5.30	5.70	6.11
23	.43	.85	1.28	1.70	2.13	2.56	2.98	3.41	3.83	4.26	4.68	5.11	5.54	5.96	6.39
24	.44	.89	1.33	1.78	2.22	2.67	3.11	3.56	4.00	4.44	4.89	5.33	5.78	6.22	6.67
25	.46	.92	1.39	1.85	2.31	2.78	3.24	3.70	4.17	4.63	5.09	5.56	6.02	6.48	6.94
26	.48	.96	1.44	1.92	2.41	2.89	3.37	3.85	4.33	4.82	5.30	5.78	6.26	6.74	7.24
27	.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
28	.52	1.04	1.55	2.07	2.59	3.11	3.63	4.15	4.67	5.18	5.70	6.22	6.74	7.26	7.78
29	.54	1.07	1.61	2.15	2.68	3.22	3.76	4.30	4.83	5.37	5.91	6.44	6.98	7.52	8.06
30	.56	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00	5.55	6.11	6.67	7.22	7.78	8.33
31	.57	1.15	1.72	2.30	2.87	3.44	4.02	4.59	5.17	5.74	6.32	6.89	7.46	8.04	8.61
32	.59	1.18	1.78	2.37	2.96	3.56	4.15	4.74	5.33	5.92	6.52	7.11	7.70	8.30	8.89
33	.61	1.22	1.83	2.44	3.05	3.67	4.28	4.89	5.50	6.11	6.72	7.33	7.94	8.55	9.17
34	.63	1.26	1.89	2.52	3.15	3.78	4.40	5.04	5.67	6.29	6.93	7.56	8.18	8.81	9.44
35	.65	1.30	1.94	2.59	3.24	3.89	4.53	5.18	5.83	6.48	7.13	7.78	8.42	9.08	9.72
36	.67	1.33	2.00	2.67	3.33	4.00	4.66	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00
37	.68	1.37	2.06	2.74	3.42	4.11	4.79	5.48	6.17	6.85	7.54	8.22	8.91	9.59	10.28
38	.70	1.41	2.11	2.82	3.52	4.22	4.92	5.63	6.33	7.03	7.74	8.44	9.15	9.85	10.56
39	.72	1.44	2.17	2.89	3.61	4.33	5.05	5.78	6.50	7.22	7.95	8.67	9.39	10.11	10.83
40	.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.67	7.41	8.15	8.89	9.63	10.37	11.11

Table gives cu. yds. in 1 ft. of a triangle of given width and height. Corrections for tenths of width are one tenth the values found under each height considering the widths from 1 to 9 as tenths and similarly the corrections for tenths of height are one tenth the figures opposite width considering the heights from 1 to 9 as tenths. Thus if w = 16.2 and h = 5.3, cu. yds. = 1.43 + .028 + .089 = 1.597 cu. yds. or practically 160 cu. yds. per 100 ft. If w exceeds 40 ft., use one half and multiply result by 2, if both w and h are large use one half of each and multiply result by 4. Any cross-section may be divided into triangles by the following rule. To the triangle of the sum of the outside cuts (or fills) = h, and $\frac{1}{2}$ the roadbed = w, add the triangles formed by taking the distance out to each break in turn (=w's) by the difference between the cuts (or fills) on each side of it (=h's) always subtracting the outer from the inner.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
 Roadway 16 feet wide. Side Slopes 1 on 1 1/2.
 For Single Track Embankment.

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

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