

W  
488

# KEUFFEL & ESSER CO.

DRAWING MATERIALS

AND

SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

## TABLE FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING

ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.

FOR SINGLE TRACK EXCAVATION.

"Copyright, 1895, by Keuffel & Esser Co."

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

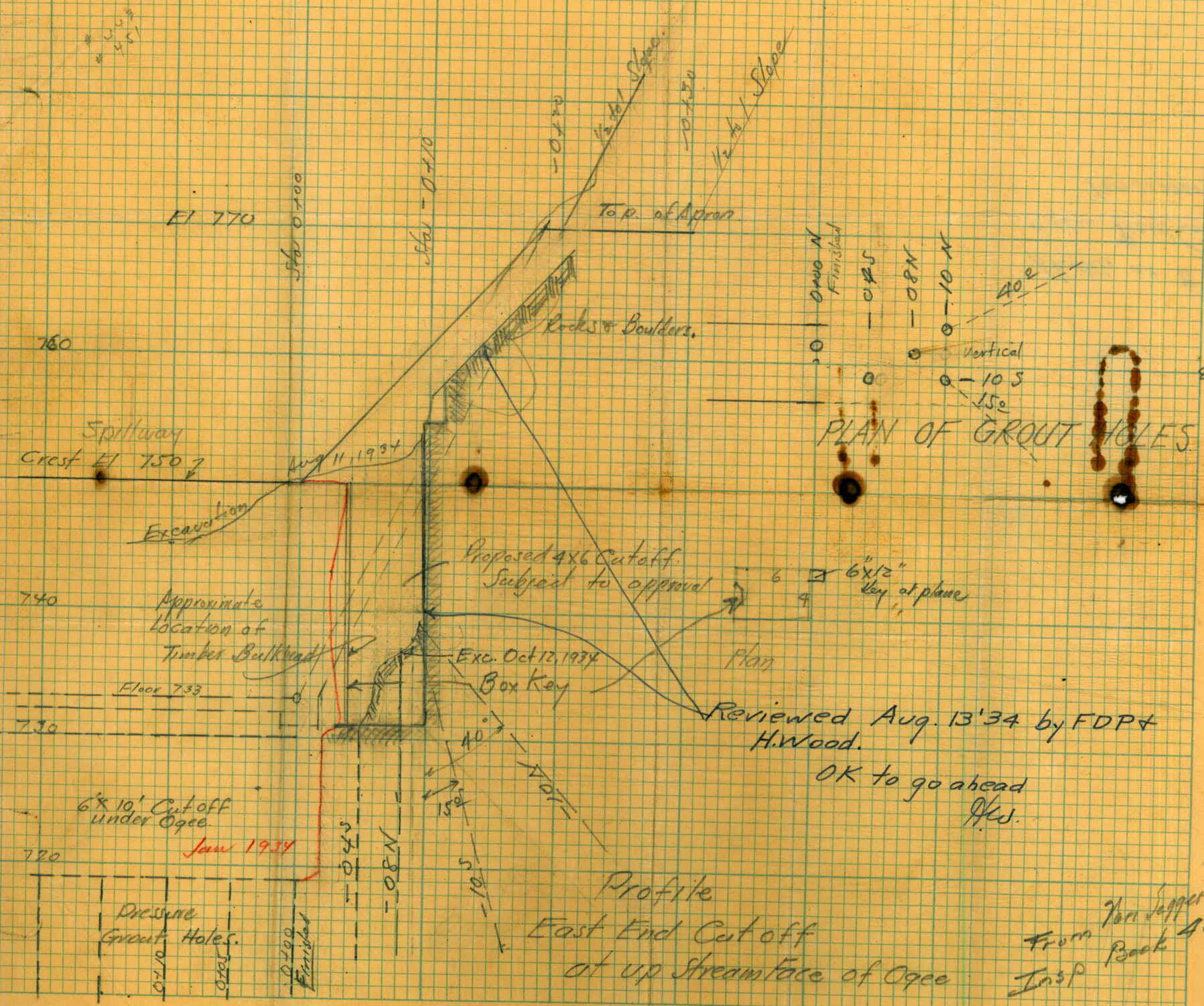
Calculated by Julien A. Hall, M. Am, Soc. C. E.

488



Handwritten notes: 11.1, 11.8 - 12

EUGENE DITZEN CO. NO. 375



EI 770

Sta 0+100

Sta - 0+10

-0+20

-0+30

0+00 N  
Finished

-0+25

-0+8N

-10.1N

Vertical  
10.5  
15.0

40°

PLAN OF GROUT HOLES

Spillway  
Crest EI 750.7

Aug 11, 1934

Excavation

Rocks & Boulders.

Top of Apron

Proposed 4x6 Cutoff.  
Subject to approval

6 x 6 "12"  
key at place

Approximate  
Location of  
Timber Bulkhead

Floor 733

Exc. Oct 12, 1934  
Box Key

Plan

Reviewed Aug. 13 '34 by FDP +  
H. Wood.

OK to go ahead  
H.W.

6 x 10' Cutoff  
under Ogee.

Jan 1934

-0+25

-0+8N

40°

10.5°

17.0°

720

Pressure  
Grout Holes.

0+10

0+20

0+00  
Finished

Profile  
East End Cutoff  
at up Stream Face of Ogee

From Tom Sappens.  
Book 488.  
Insp

Sketch at Fersd  
ogee. Field Cond. t.  
Tom Siggern.

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## TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING

ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.

FOR SINGLE TRACK EXCAVATION.

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

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

M. E. S  
 5-11-12  
 7-5-12

488

Otto Van Seggern  
Concrete Inspection

Index

Spillway Floor Anchor Record	1-17
" " Sideral "	" " 18-24
" " " Concrete, Ex + Est	40-45
" Extension Sideral "	Progress
Record Same + Anchors	46-60
Spillway + Extension Notes Cor. Mix Etc.	73-80
Blank	25-39, 57, 61-72

Index Spillway Floor Anchors

Sta 0+06 to Sta 0+58  
see Book 472 complete

Sta 0+62 to Sta 0+98  
see This Book 488

Sta 1+02 to Sta 3+86  
see Book 467 incomplete

Sta 3+90 to Sta <sup>5+60</sup> 5+80  
see Book 468 incomplete

Sta 5+64 to Sta 7+39  
see Book 470 incomplete

Continuation of  
Notes for incomplete records  
see this Book 488

Index Spillway Sidewall Anchors

North Sidewall (East End)  
Sta 0+00 to 30' N

North Sidewall  
Sta 0+00 to 0+60

#15		Spillway Floor		#17	
Sta	Dates	Sta	Dates	Sta	Dates
0+62		0+66	Sept 4	0+70	Sept 4
1	✓	1	✓	1	✓
2		2		2	
3	✓	3	✓	3	✓
4		4		4	
5	Sept 4	5	✓	5	✓
6		6	✓	6	✓
7	✓	7	✓	7	✓
8		8		8	
9	✓	9	✓	9	✓
10		10	✓	10	✓
11	✓	11	✓	11	✓
12	✓	12	✓	12	✓

#18		Auctions		#20	
Sta	Dates	Sta	Dates	Sta	Dates
0+74		0+78	Sept 4	0+82	Sept 4
1		1	✓	1	✓
2		2		2	
3	✓	3	✓	3	✓
4		4		4	
5	✓	5	✓	5	✓
6		6	✓	6	✓
7	✓	7	✓	7	✓
8		8	✓	8	✓
9	✓	9	✓	9	✓
10		10	✓	10	✓
11	✓	11	✓	11	✓
12	✓	12	✓	12	✓

#21		#22		#23	
Sta	Dates	Sta	Dates	Sta	Dates
0+86		0+90		0+94	
1	Sept 4	1	Sept 4	1	Sept 4
2		2		2	
3	✓	3	✓	3	✓
4	✓	4	✓	4	✓
5		5		5	
6	✓	6	✓	6	✓
7		7		7	
8	✓	8	✓	8	✓
9		9		9	
10	✓	10	✓	10	✓
11		11		11	
12	✓	12	✓	12	✓
13		13		13	
14	✓	14	✓	14	✓
		15		15	

#24		#25		#26	
Sta	Dates	Sta	Dates	Sta	Dates
0+98		1+02		1+06	
1	Sept 4	5	Sept 6	5	Sept 6
2		6		6	
3	✓	7	✓	7	✓
4		8		8	
5	✓	9	✓	9	✓
6	✓	10	✓	10	✓
7		11	✓	11	✓
8	✓	12	✓	12	✓
9		13		13	
10	✓	14		14	
11		15	✓	15	✓
12	✓			16	✓
13					
14	✓				
15					



# 27		Spillway		Floor		# 30		Anchors		# 32	
Sta	Dates	Sta	Dates	Sta	Dates	Sta	Dates	Sta	Dates	Sta	Dates
1+10	Sept 6	1+14	Sept 6	1+18	Sept 6	1+22	✓	1+26	↓	1+30	↓
5	✓	5	✓	5	✓	5	Sept 6	10	Sept 6	10	Sept 6
6		6		6		6		11		11	
7	✓	7	✓	7	✓	7	✓	12	✓	12	✓
8		8		8		8		13		13	
9	✓	9		9	✓	9	✓	14	✓	14	✓
10		10	✓	10		10		15		15	
11	✓	11	✓	11	✓	11	✓	16	✓	16	✓
12		12		12		12		17	✓	17	✓
13	✓	13	✓	13	✓	13	✓				
14		14		14		14					
15	✓	15	✓	15	✓	15	✓				
16	✓	16		16	✓	16	✓				
				17	✓	17	✓				
# 33		# 34		# 35		# 36		# 37		# 38	
1+34	↓	1+38	↓	1+42	↓	1+46	↓	1+50	↓	1+54	↓
10	Sept 7	10	Sept 7	10	Sept 7	10	Sept 7	10	Sept 7	10	Sept 7
11		11		11		11		11		11	
12	✓	12	✓	12	✓	12	✓	12	✓	12	✓
13		13		13		13		13		13	
14	✓	14	✓	14	✓	14	✓	14	✓	14	✓
15		15		15		15		15		15	
16	✓	16	✓	16	✓	16	✓	16	✓	16	✓
17		17	✓	17	✓	17	✓	17		17	
18	✓	18		18		18	✓	18	✓	18	✓
						19	Out	19		19	

		Spillway Floor			
#39		#40		#41	
1+58	Date	1+62	Date	1+66	Date
11	Sept 9	11	Sept 9	11	Sept 9
12	✓	12		13	
13		13	✓	14	✓
14	✓	14		15	
15		15	✓	16	✓
16	✓	16		17	
17		17		18	✓
18	✓	18	✓	19	
19		19		20	✓
20	✓	20	✓	21	✓

4

		Anchors			
#42		#43		#44	
1+70	Date	1+74	Date	1+78	Date
12	Sept 9	12	Sept 9	12	Sept 9
13		13		13	
14	✓	14	✓	14	✓
15		15		15	
16	✓	16	✓	16	✓
17		17		17	
18	✓	18	✓	18	✓
19		19		19	✓
20	✓	20	✓	20	✓
21		21		21	✓
				22	✓

#45		#46		#47	
1+82	Sept 9	1+86	Sept 9	1+90	Sept 12
13	✓	13	✓	13	✓
14		14		14	
15	✓	15	✓	15	✓
16		16		16	✓
17	✓	17	✓	17	✓
18		18		18	✓
19	✓	19	✓	19	
20		20		20	✓
21	✓	21	✓	21	✓
22		22		22	✓
				23	✓
				24	1 Extra

#48		#49		#50	
1+94	Sept 12	1+98	Sept 12	2+02	Sept 12
13	✓	13	✓	13	✓
14		14		14	✓
15	✓	15		15	✓
16		16	✓	16	✓
17	✓	17		17	
18		18		18	✓
19	✓	19	✓	19	✓
20		20		20	✓
21	✓	21	✓	21	✓
22		22		22	✓
23	✓	23	✓	23	✓
		(24) out		24	

#51	✓	Spillway	Floor	✓
2+06	Sept 12	#52	#53	Sept 12
14	✓	14	15	✓
15		15	16	
16	✓	16	17	✓
17		17	18	
18	✓	18	19	✓
19		19	20	
20	✓	20	21	✓
21		21	22	
22	✓	22	23	✓
23		23	24	
24	✓	24	25	✓
		(25) out.		

#57	✓	#58	#59	✓
2+30	Sept 19	2+34	2+38	Sept 19
16	✓	17	17	✓
17		18	18	
18	✓	19	19	✓
19		20	20	
20	✓	21	21	✓
21		22	22	
22	✓	23	23	✓
23		24	24	
24	✓	25	25	✓
25	✓	26	26	
26		(27) out.	27	✓

5

#54	✓	Anchors	✓	#56	✓
2+18	Sept 19	#55	2+22	Sept 19	2+26
15	✓	16	16	✓	
16		17	17		
17	✓	18	18	✓	
18		19	19		
19	✓	20	20	✓	
20		21	21		
21	✓	22	22	✓	
22		23	23		
23	✓	24	24	✓	
24		25	25		
25	✓	26	26	✓	
		(26) Extra.			

#60	✓	#61	#62
2+42	Sept 19	2+46	Sept 19
17	✓	17	18
18		18	19
19	✓	19	20
20		20	21
21	✓	21	22
22		22	23
23	✓	23	24
24		24	25
25	✓	25	26
26		26	27
27		27	28
		(28) out.	

Spillway Floor

Anchor

#63 Date #64 Date #65 Date

#66 Date #67 Date #68 Date

2+54 2+58 2+62

2+66 2+70 2+74

2 1/2 x ? Cutoff at

Stal 2+55. Omitting

1-row of Anchors #64

unless in rocky sections

where cutoff is terminated

and anchors continued

19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29

✓  
Oct 4

19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30

✓  
Oct 4

19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30

✓  
Oct 4

20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

31  
✓  
Oct 4

#69  
2+78

20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

✓  
Oct 4

#70  
2+82

21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

✓  
Oct 4

#71  
2+86

21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

✓  
Oct 4

#72  
2+90

21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32

✓  
Oct 4

Spillway Floor

Anchors

#	#74	#75
73		
2+94	2+98	3+02
21	22	22
22	23	23
23	24	24
24	25	25
25	26	26
26	27	27
27	28	28
28	29	29
29	30	30
30	31	31
31	32	32
32	33	33

Oct. 4

Oct 4

Oct 4

#	#80	#81
#79		
3+18	3+22	3+26
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35

#	#76	#77	#78
3+06	3+10	3+14	
23	20	20	
24	21	21	
25	22	22	
26	23	23	
27	24	24	
28	25	25	
29	26	26	
30	27	27	
31	28	28	
32	29	29	
33	30	30	
	31	31	
	32	32	
	33	33	
	34	34	

Oct 4

#	#82	#83	#84
3+30	3+34	3+38	
20	20	20	
21	21	21	
22	22	22	
23	23	23	
24	24	24	
25	25	25	
26	26	26	
27	27	27	
28	28	28	
29	29	29	
30	30	30	
31	31	31	
32	32	32	
33	33	33	
34	34	34	
35	35	35	
36	36	36	



Spillway Floor

Auctions

# 91 3+66	Date	# 92 3+70	Date	# 93 3+74	Date
28	} Aug 4.	28	} Aug 4.	28	} Aug 4.
29		29		29	
30		30		30	
31		31		31	
32		32		32	
33		33		33	
34		34		34	
35		35		35	
36		36		36	
37		37		37	
38		38		38	
39		39		39	
				40	

# 94 3+78	Date	# 95 3+82	Date	# 96 3+86	Date
28		28		28	
29		29		29	
30		30		30	
31		31		31	
32		32		32	
33		33		33	
34		34		34	
35		35		35	
36		36		36	
37		37		37	
38		38		38	
39		39		39	
40		40		40	

# 96 3+86	Date
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	

# 97 3+90	# 98 3+94	# 99 3+98
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
		42

# 100 4+02	# 101 4+06	# 102 4+10
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
	43	43

Spillway Floor

Anchors.

#115	Date	#116	Date	#117	Date
4+62		4+66		4+70	
34		34		34	
35		35		35	
36		36		36	
37		37		37	
38		38		38	
39		39		39	
40		40		40	
41		41		41	
42		42		42	
43		43		43	
44		44		44	
45		45		45	
46		46		46	
47		47		47	
48		48		48	

#118	Date	#119	Date	#120	Date
4+74		4+78		4+82	
34		34		34	
35		35		35	
36		36		36	
37		37		37	
38		38		38	
39		39		39	
40		40		40	
41		41		41	
42		42		42	
43		43		43	
44		44		44	
45		45		45	
46		46		46	
47		47		47	
48		48		48	
49		49		49	

#121	Date	#122	Date	#123	Date
4+86		4+90		4+94	
34					
35		35		35	
36		36		36	
37		37		37	
38		38		38	
39		39		39	
40		40		40	
41		41		41	
42		42		42	
43		43		43	
44		44		44	
45		45		45	
46		46		46	
47		47		47	
48		48		48	
49		49		49	
50		50		50	

#124	Date	#125	Date	#126	Date
4+98		5+02		5+06	
35		35		35	
36		36		36	
37		37		37	
38		38		38	
39		39		39	
40		40		40	
41		41		41	
42		42		42	
43		43		43	
44		44		44	
45		45		45	
46		46		46	
47		47		47	
48		48		48	
49		49		49	
50		50		50	
51		51		51	



End of Ogee  
#127 Date.

Spillway Floor.

5+10

35

36

37

38

39

40

41

42

43

44

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46

47

48

49

50

51

12  
Anchors  
Continued North of & from Sta 5+10

#128 N Date

#129 N Date

#130 N Date

5+16

5+20

5+24

9

10

10

10

11

11

11

12

12

12

13

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24

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24

25

25

25

26

26

#137N	Spillway #138#	Flood #139N	#140N	Anchors #141N	#142N
5452	5456	5460	5464	5468	5472
12	12	12	11	11	11
13	13	13	12	12	12
14	14	14	13	13	13
15	15	15	14	14	14
16	16	16	15	15	15
17	17	17	16	16	16
18	18	18	17	17	17
19	19	19	18	18	18
20	20	20	19	19	19
21	21	21	20	20	20
22	22	22	21	21	21
23	23	23	22	22	22
24	24	24	23	23	23
25	25	25	24	24	24
26	26	26	25	25	25
			26	26	26

Spillway Floor

Anchors

#143N	Date	#144N	Date	#145N	Date
5776		5780		5784	
11		12		12	
12		13		13	
13		14		14	
14		15		15	
15		16		16	
16		17		17	
17		18		18	
18		19		19	
19		20		20	
20		21		21	
21		22		22	
22		23		23	
23		24		24	
24		25		25	
25					
26					

#146N	Date	#147N	Date	#148N	Date
5788		5792		5796	
12		12		12	
13		13		13	
14		14		14	
15		15		15	
16		16		16	
17		17		17	
18		18		18	
19		19		19	
20		20		20	
21		21		21	
22		22		22	
23		23		23	
24		24		24	
25		25		25	

#149N	#150N	#151N
6700	6704	6708
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25

#152N	#153N	#154N
6712	6716	6720
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25

Spillway Floor			
#155N	#156N	#157N	
6+24	6+28	6+31	Date
12	12	12	
13	13	13	
14	14	14	
15	15	15	
16	16	16	
17	17	17	
18	18	18	
19	19	19	
20	20	20	
21	21	21	
22	22	22	
23	23	23	
24	24	24	
25	25	25	

Anchors			
#158N	#159N	#160N	
6+35	6+39	6+43	Date
12	17	17	
13	18	18	
14	19	19	
15	20	20	
16	21	21	
17	22	22	
18	23	23	
19	24	24	
20			
21			
22			
23			
24			

#161N	#162N	#163N
6+47	6+51	6+55
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24

#164N	#165N	#166N
6+58	6+62	6+66
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24

#167N  
6+70

Spillway Floor

#168N  
6+74

anchors  
#169N  
Finished

17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24

Spillway Floor

2 rows parallel to North wall

beginning at Sta 3+035

2 rows

Oct 12

1	
2	
3	✓
4	
5	✓
6	
7	✓
8	
9	✓
10	✓
11	
12	✓
13	
14	✓
15	
16	✓
17	
18	
19	
20	
21	
22	
23	
24	

#13  
man  
Sta 3+50

North Side wall Anchors.

# 14 0+66.79	↓ Date	# 15 0+72.6	↓ Date	# 16 0+78.2	↓ Date
1	Sept. 14	1	Sept 14	1	Sept 14
2		2		2	
3	✓	3	✓	3	✓
4		4		4	
5	✓	5	✓	5	✓
6	✓	6		6	✓
7		7	✓	7	

# 17 0+83.7	↓ Date	# 18 0+89.3	↓ Date	# 19 0+94.9	↓ Date
1	Sept 14	1	Sept 14	1	Sept 14
2		2		2	
3	✓	3	✓	3	✓
4		4		4	
5	✓	5	✓	5	✓
6		6		6	✓
7	✓	7	✓	7	✓







North Sidewall

Anchors.

#44	✓ 2+34.5 Date	#45	✓ 2+90.1 Date	#46	✓ 2+45.6 Date	#47	✓ 2+51.2 Date	#48	✓ 2+56.8 Date	#49	✓ 2+62.4 Date
1	Sept 25		Sept 25		Sept 25		Oct 5		Oct 5		Oct 5
2											
3	✓		✓		✓		✓		✓		✓
4											
5	✓		✓		✓		✓		✓		✓
6											
7	✓		✓		✓		✓		✓		✓
8											

#50 <sup>✓</sup>	#51 <sup>✓</sup>	#52 <sup>①</sup> ✓	#53 <sup>②</sup> ✓	#54 <sup>③</sup> ✓	#55 <sup>④</sup> ✓
2+68.0	2+73.6	2+79.1	2+84.7	2+90.3	2+95.9
Date	Date	Date	Date	Date	Date
1	Oct 5	Oct 5	Oct 5	Oct 5	Oct 6
2					
3	✓	✓	✓	✓	✓
4					
5	✓	✓	✓	✓	✓
6					
7	✓	✓	✓	✓	✓
8					



North Sidewalk

Anchors

#68	#69	#70	#71	#72	#73
3+68.5	3+74.1	3+79.6	3+85.2	3+90.8	3+96.4
Date	Date	Date	Date	Date	Date
1 ✓	✓	✓	✓	✓	
2 ✓	✓	✓	✓	✓	
3 ✓	✓	✓	✓	✓	

#74	#75	#76	#77	#78	#79
4+02.0	4+07.6	4+13.1	4+18.7	4+24.3	4+29.9
Date	Date	Date	Date	Date	Date

## North Sidewall

## Anchors.

24

#80 4+35.7	Date	#81 4+41.1	Date	#82 4+46.6	Date	#83 4+52.2	Date	#84 4+57.8	Date	#85 4+63.4	Date
---------------	------	---------------	------	---------------	------	---------------	------	---------------	------	---------------	------

#86 4+69.0	Date	#87*	Date	#88	Date	#89	Date	#90	Date	#91	Date
---------------	------	------	------	-----	------	-----	------	-----	------	-----	------

Sta\* 4+74.5 on 200' Rad. Curve.



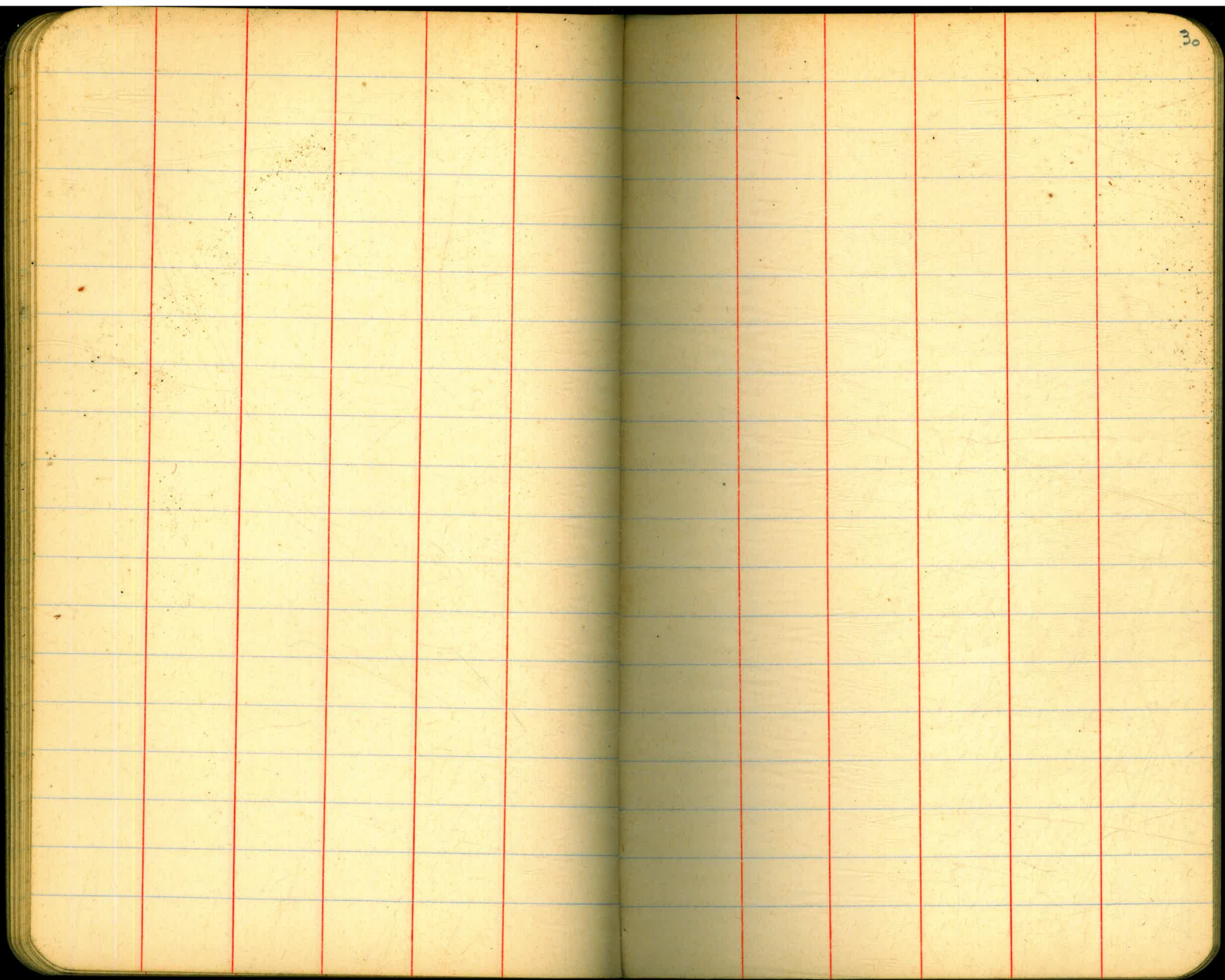












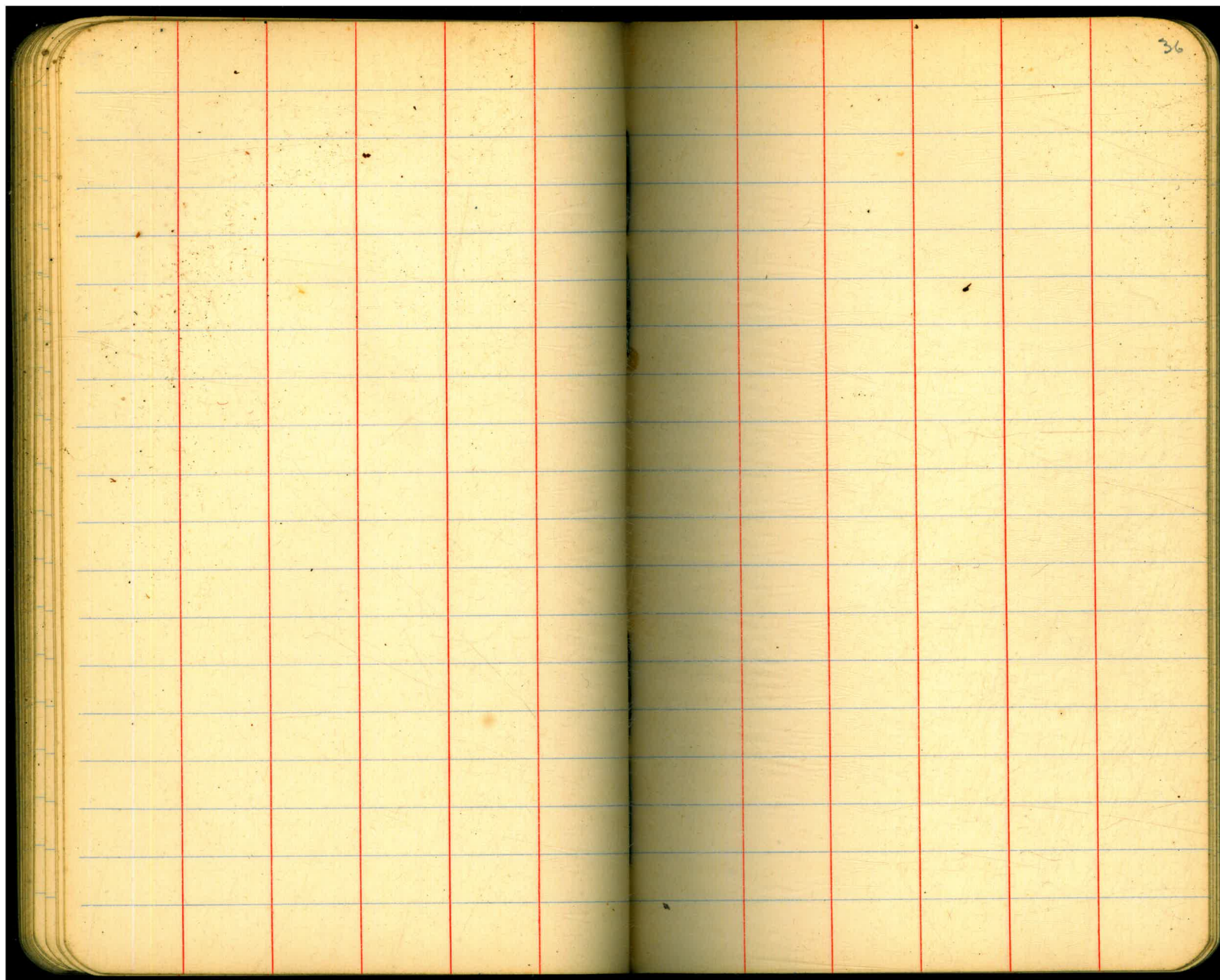












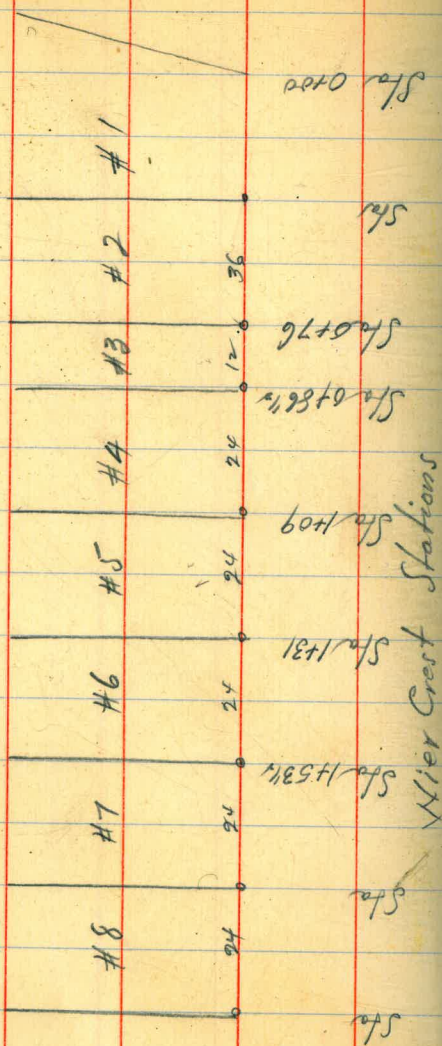








North Side wall  
Section Numbers.



Wier Crest Stations

#2 Shift, Continued from #1 Shift 40  
Sept 26, 1934  
North Side wall ✓

Finish - 6<sup>15</sup> P.M.

(a) 55' 2' 2' Grout. 4 Batches 20 Sy

(b) 65' 2' 4' Mix 48 Batches 168 Sy

(c) 65' 1' 2' 5' Mix 24 Batches 144 Sy

332 ✓

Av. Gal. Water per batch = 41

✓  
Oct 2, 1934 #2 Shift

North Sidewall Concrete

Concrete Samples

No 3323-24-25 (New per)  
Inspector

65x cement.

1400 Sand

1370 # 1 1/2" #1

600 # 3/4"

200 # pea

42 gallons per batch.

✓  
Oct 10, 1934

North Sidewall

Forms 7<sup>00</sup> to

✓ 1 - Carpenter Foreman

✓ 2 - Carpenters

✓ 7 - Laborers 7<sup>00</sup> to 11<sup>30</sup>

✓ 1 - General Foreman

2 - Laborers 12<sup>20</sup> to

Finishing 7<sup>00</sup> to

1 - Finisher 55x cement delivered

1 - Helper

2 - Laborers 12<sup>30</sup> to

Drilling Anchor Holes 7<sup>00</sup> to

1 - Compressor

1 - Jackhammer

2 - Drillers

✓  
Oct. 10, 1934

Spillway Excavation

1- Driller

1- Laborer

1- Powderman

1- Compressor

1- Driller

2- Laborers 12<sup>30</sup> to

1- #7 Shovel 7<sup>00</sup> to 11<sup>30</sup>

Dump Trucks 31-40

1- Shovel Operator

1- " Oiler

Truck Drivers

# 6 Shovel 7<sup>00</sup> to

Dump Trucks 31-40

1- Shovel Operator

1- " Oiler

Truck Drivers

✓  
Oct. 11, 1934

North Sidewall

Forms 7<sup>00</sup> to 11<sup>30</sup>

1- General Foreman

1- Carpenter Foreman

2- Carpenters

6- Laborers

Finishing

1- Finisher

1- Helper

Stripping & Clean up 12<sup>30</sup> to

2- Carpenters

2- Laborers

Bandung  
Placing Steel 12<sup>30</sup> to

1 Steel Worker

3 Laborers

↓  
Oct. 11, 1934

North Sidewalk "

Drilling Anchor Holes

1/2 Compressor

1- Jackhammer

2- Drillers

↓  
Oct. 11, 1934

43

Excavation 7<sup>00</sup> to

1/2 compressor

1- Jackhammer

✓ 1- Driller

✓ 1- #7 Shovel

Dump Trucks 40-9

✓ 1- Shovel Operator

✓ 1 " Oiler

✓ 1- Boulderman

✓ 2- Muckers

✓ 1- Driller

Truck Drivers

✓ 1- Compressor

✓  
Oct 12, 1934

North Sidewall

Forms. 7<sup>00</sup> to

- 1- General Foreman
- 1- Carpenter Foreman
- 2- Carpenters
- 5- Laborers

Finishing 7<sup>00</sup> to

- 1- Finisher Detained for Finish  
55% cement
- 1- Helper

Drilling Anchor Holes

- 1- Compressor
- 1- Sockhammer
- 2- Drillers

44

✓  
Oct 12, 1934

Excavation

1- #7 Shovel

Dump Trucks 39-40-31 } 12<sup>30</sup> to

1- Shovel Operator & O. Car  
Truck Drivers

- 1- Compressor
- 1- Sockhammer
- 1- Boulderman
- 2- Drillers
- 2- Muckers



✓  
Oct. 13, 1934

North Sideral

Forms 7<sup>00</sup> to

1- General Foreman.

1- Carpenter Foreman.

2- Carpenters.

6- Laborers.

Finishing 7<sup>00</sup> to

1- Finisher

1- Helper.

Drilling Anchor Holes 7<sup>00</sup> to

1- Compressor

1- Sock hammer

2- Drifters.

✓  
Oct 13, 1934

Excavation

3 Laborers 7<sup>00</sup> to

1- Powderman

2- Drifters

1- Compressor

2- Sock hammer

R & C job 45  
to here.

Oct. 13, 1934

South Side wall Bodenbauer

Setting up 25x Mixer 7<sup>00</sup> to 2<sup>00</sup> = 6 1/2

1 Mixer man 13+56 to 13+80

2 laborers 14+04 to 14+26

1 Truck

Start 7<sup>00</sup> Finish 5<sup>30</sup> = 3 1/2

(a) 25x batches 1 1/2 Grout 2 Batches 45x

(b) 25x 1 1/2 x Mix 32 Batches 64 5x  
68

3rd 6' Lift Section #

3rd 6' Lift Section

1 Mixer wheelbarrows & Chutes

1 Mixer man

2 Men

Concrete Delivery 1 Man

Placing 3 Men

Oct 14 Sunday

Oct 15

So Side wall Bodenbauer

1 Foreman

Clean up 5<sup>00</sup> to 6<sup>00</sup>

1 Mixer man

3 Men

2 Men 7<sup>00</sup> to

Shift Start 6<sup>00</sup> Finish 12<sup>30</sup> = 6 3/4

(a) 25x 1 1/2 Grout 5 Batches 10 5x

(b) 25x 1 1/2 x Mix Batches 166 5x  
176

1-2 Bag Mixer & wheelbarrows  
Finishing walls

1 Mixer man

1 Finisher

3 Men

6<sup>00</sup> to 12<sup>00</sup> 10<sup>30</sup> to 12<sup>30</sup>

Concrete Del. 1 Man 1 Man

Placing 3 Men 1 Man

#1 Sta 13+32 to 13+56 - 5th Lift

#2 Sta 14+52 to 14+76 - 3rd Lift

#3 Sta 13+08 to 13+32 - 3rd Lift

#4 Sta 13+80 to 14+04 - 3rd Lift

#5 Sta 14+52 to 14+70 - 3rd Lift

#1 { 5<sup>00</sup> to 8<sup>30</sup> = 3 3/4  
8<sup>30</sup> to 12<sup>30</sup> = 4  
12<sup>30</sup> to 1<sup>00</sup> = 3 1/2

#6 1st Lift Sta  
#7 3rd Lift Sta

✓  
Oct 15, 1934 #2 Shift

So. Sidewall Bordenham

12:40 to 6:00 = 5 hrs 20 min

1- Foreman  
1- Mixer

1- Mixer man

3- Men

Conc. 2- Men & Buggies

Placing 3- Men

Finishing 1- Finisher

So. Sidewall

#76 3rd Lift 15+00 to 15+24 ✓

#87 7th Lift (Top) 14+28 to 14+52 ✓

#98 1st Lift 15+37 to 15+50

North Sidewall none

Grout 25x per inch =

65x

1:2:4 14x

86

92 5x

47

✓  
Oct 15, 1934 #2 Shift

North Sidewall

6:00 to 7:30

Setting Chutes

1- Foreman

1- Mixer man

8- Men

Start 7:30 to

1- Mixer

1- Crane

1- Mixer man

1- Crane Operator

1- Truck Driver

3- Men

(a) 2x batch 1:2 Grout

(b) 25x 1:2:4

Batcher

Batcher

5x

5x

#1

Star 15+26 to 15+50

not finished

$\frac{12:40}{1} \text{ hrs} = 8:30$

45x worked

46x to floor

Oct. 16, 1934 #1

North Sidewall Badenham

Start 5<sup>00</sup> am Finish 1<sup>30</sup> pm.

1 1/2 hr delay 6<sup>00</sup> to 7<sup>00</sup> adjustment.

1- Mixer

1- Crane

1- Truck & Skips

1- Mixerman

4- Men

Covered 1- Truck Driver

1- Man

Placing 1- Crane Operator

3- Men

Finishing 1- Finisher 1- Helper

Only 48 5x

#1 - 5<sup>th</sup> Shift Sta 15+26 to 15+50

See Progress Sketch for Stations

(a) 1- Batch 1:2 Grout = 2 5x

(b) 23 Batches 1:2:4 Mix = 46 5x

(a) 8 Batches 1:2 Grout = 16 5x = 118

(b) 102 Batches 1:2:4 Mix = 204 5x

110 Batches 25x Batch = 220 5x

a = 9 Batches 1:2 Grout = 18 5x

(b) = 125 Batches 1:2:4 Mix = 250 5x ✓

100 # of paper sacks cement  
has contained by bulk cement  
100 # = 25x per batch.

48

Oct. 16, 1934 #2 Shift

North Sidewall (Reed cut 2<sup>00</sup>)

Start 1<sup>30</sup> pm Finish

1- Mixer

1- Crane

1- Truck & Skips

1- Mixerman

4- Men

Covered 1- Truck Driver

1- Man

Placing 1- Crane Operator

3- Men

North Sidewall 1:2:4 Conc.

# 3353-3354-3355

188 # cement

466 # Sand

{ 458 # 1/2" & 1"

724 { 133 # 3/4"

183 # crushed pea

Poor grading  
1 1/2" & 1" rocks  
Mix quit wet  
for dusts &  
placing.

Oct. 16, 1934 #1

North Sidewall Bodenhamer

Start 5<sup>00</sup> am Finish 1<sup>30</sup> pm.

1 1/2 hr delay 6<sup>00</sup> to 7<sup>30</sup> adjustment.

1- Mixer

1- Crane

1- Truck & Skips

1- Mixerman

4- Men

Covered 1- Truck Driver

1- Man

Placing 1- Crane Operator

3- Men

Finishing 1- Finisher 1- Helper

Only 48 5x

#1 - 5<sup>th</sup> Shift Sta 15+26 to 15+50

See Progress Sketch for Stations

(a) 1- Batch 1:2 Grout = 2 5x

(b) 23 Batches 1:2:4 Mix = 46 5x

(a) 8 Batches 1:2 Grout = 16 5x = 118

(b) 102 Batches 1:2:4 Mix = 204 5x

110 Batches 2 5x Batch = 220 5x

a = 9 Batches 1:2 Grout = 18 5x

b) = 125 Batches 1:2:4 Mix = 250 5x

268 5x

Cost of paper sacks cement  
Four cartons by bulk cement  
100 # = 25x per batch.

Oct. 16, 1934 #2 Shift

North Sidewall (Reed at 2<sup>00</sup>)

Start 1<sup>30</sup> pm Finish

1- Mixer

1- Crane

1- Truck & Skips

1- Mixerman

4- Men

Covered 1- Truck Driver

1- Man

Placing 1- Crane Operator

3- Men

North Sidewall 1:2:4 Conc.

# 3353-3354-3355

188 # cement

406 # Sand

(458 # 1/2 x 1"

724 } 133 # 3/4"

183 # crushed pea

Poor grading  
1/2 x 1" rock  
Mix quit wet  
for chutes &  
placing.

✓  
Oct 17, 1934 #1 Shift

Spillway Extension

Start 9<sup>00</sup> Finish 1<sup>00</sup> = 3 1/2  
Rain

1- Mixer

1- Crane & Skips

1- Mixerman

4 Men

Placing  
Concrete 1- Crane Operator

3- Men

Rain 7<sup>00</sup> to 9<sup>00</sup>

Clean up 7<sup>00</sup> to 9<sup>00</sup> = 2

(a) 6 - 25x Batches = 125x

(b) 44 - 25x Batches = 88  
100 5x

1 1/2 x 1" Stock Samples

Poor Grading # 3359

Better Grading # 3360

49

✓  
Oct. 18, 1934

Spillway Extension

Clean up

1- Foreman

Concrete 8<sup>00</sup> am to 4<sup>00</sup> = 7 hrs.

Pro rate mixing plant

1- Crane

1- Truck & Skips

1- Foreman

1- Craverman

1- Truck Driver

7- Pumps with Grout = 4 grout x 6 = 24

(a) 4 Batches Grout. 24 5x + 4 = 28

(b) 39 1/2 Batches 1:2:4 Mix 237 5x + 39 = 271  
43 1/2 261 5x 299

39 1/2 39.5  
5 3/4 5.625  
44 1/4 45.125







Progress Chart South Sidewall

Spillway Extension

	6	5	4										
7th													7th
6th													6th
5th	Finish	Finish	Finish	Finish	FINISH	FINISH	Finish	Finished	FINISH	FINISH			5th
4th	11-5-34 ③	31 ②	11-5-34 ③	30 ②	11-21-34 ①	11-27-34 F.F.B. ①	11-22-34 ① a.s.	12-1-34 ①	12-1-34 F.F.B. ②	12-1-34 F.F.B. ②			4th
3rd	11-3-34 ①	30 ①	11-3-34 ①	29 ②	11-10-34 ①	11-22-34 ① a.s.	11-21-34 ①	11-30-34 F.F.B. ②	11-30-34 F.F.B. ④	11-30-34 ⑥ 4:30 a.m.			3rd
2nd	11-2-34 A ②	29 ①	11-2-34 A ②		11-9-34 ②	11-9-34 ②	11-10-34 ①	11-28-34 ③ 5 a.m.	11-28-34 ③ 5 a.m.	11-28-34 ③ 5 a.m.			2nd
Top 1/2 of 1st	11-1-34 ②	26 ②	11-1-34 ②	26 ②	11-7-34 ③	11-1-34 ③	11-7-34 ③	11-27-34 ① 11:30 a.m.	11-28-34 ① 10 a.m.	11-27-34 ① 2 p.m.			Top 1/2 of 1st
1st	26 ③	25 ②	26 ①	25 ②	11-1-34 A ③	31 ② J.A.O.H.	11-2-34 ②	11-26-34 ①	11-27-34 ① 1 p.m.	11-26-34 ⑤ 1 a.m.			1st
Sta	10+20 24	9+ 96 24	9+ 72 24	9+ 48 24	9+ 24 24	9+ 09	9+ 04	8+ 80	8+ 60	8+ 37	8+ 13	7+ 90	

Down Stream ←  
Hopper on Wall

Very poor form. work by #3 shift.

11-3-34 ②  
11-23-34 ①  
11-3-34 ②  
11-27-34 ①  
11-28-34 ①  
11-26-34 ①

Progress Chart South

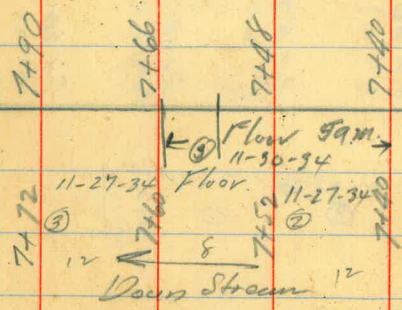
3 2 1

Sidewalk Spillway Extension

53

6th			
5th	FINISH 12-1-34	FINISH 12-1-34	FINISH 11-30-34
4th	FEB. ②	FEB. ②	10 P.M. ②
3rd	11-30-34 ⑤ 4:20 a.m.	11-30-34 10 P.M. ②	11-29-34 ③ 6 a.m.
2nd	11-29-34 ③ 6 a.m.	11-29-34 ② 60.7m	11-28-34 12 noon ①
Top 1/2 of 1st	11-28-34 ① 1:15 p.m.	11-28-34 10:25 a.m. ①	
1st	11-27-34 ③ 4 a.m.	11-26-34 ③ 4 a.m.	11-27-34 F.E.B. ②

End of Contract



Progress Chart North

Sidewalk Spillway Extension

Station	Notes	11-13-34	11-10-34	11-15-34	11-13-34	11-16-34	11-14-34	11-15-34	11-20-34
11th	Finished	Finished	11-10-34	11-15-34	11-13-34	11-16-34	11-14-34	11-15-34	
10th		Finished	11-10-34	11-15-34	11-13-34	11-16-34	11-14-34	11-15-34	
9th	Finished	11-13-34	11-9-34	11-14-34	11-10-34	11-15-34	11-13-34	11-17-34	11-20-34
8th	11-30-34 2 PM	11-13-34	11-8-34	11-13-34	11-9-34	11-14-34	11-10-34	11-16-34	11-19-34
7th	11-26-34 10:45 am	11-10-34	11-7-34	11-10-34	11-8-34	11-13-34	11-9-34	11-14-34	11-18-34
6th	11-24-34 #2-7 p.m.	11-9-34	11-7-34	11-9-34	11-8-34	11-10-34	11-8-34	11-13-34	11-17-34
5th	11-23-34 6 am	11-9-34	11-5-34	11-9-34	11-7-34	11-9-34	11-8-34	11-10-34	11-16-34
4th	11-23-34 FEB. 1	11-7-34	11-5-34	11-7-34	11-5-34	11-8-34	11-7-34	11-9-34	11-9-34
3rd	11-22-34 0 v.s.	11-7-34	11-3-34	11-7-34	11-3-34	11-8-34	11-5-34	11-8-34	11-7-34
2nd	11-21-34	11-7-34	11-3-34	11-7-34	11-3-34	11-7-34	11-3-34	11-8-34	11-5-34
Top % of 1st		11-5-34	11-2-34	11-5-34	11-2-34	11-5-34	11-2-34	11-2-34	11-1-34
1st	11-20-34	11-1-34	11-1-34	11-1-34	10-31-34	11-1-34	10-31-34	11-1-34	10-31-34
Star									
13434									
13405									
12781									
12757									
12759									
12745									
12721									
11797									
11773									
11749									
11725									
Notes	Floor 11-22-34	Connecting for Station 11-2-34	11-1-34	Floor 11-2-34	11-1-34	Floor 11-2-34	11-1-34	11-2-34	11-1-34

Down Stream

Progress Chart North

Sidewalk Spillway Extension

	9	10	11	12	15								
8th	Finished 11-18-34 ②	Finished ⑤											
7th	11-17-34 ①	11-14-34 ① 6m											
6th	11-16-34 ②	11-13-34 ③	11-19-34 ② 8	Finished ①									
5th	11-10-34 H ③	11-10-34 H ③	11-17-34 ①	11-13-34 ① H? ans	Finished 11-8-34 ③	Finished 11-5-34 ①	Finished 11-13-34 ① D.O.S.	Finished 11-8-34 ③	Finished 11-7-34 ③	Finished 11-5-34 ①	5th		
4th	11-9-34 H ③	11-9-34 ①	11-9-34 H ②	11-10-34 H ①	③						4th		
3rd	11-8-34 11am ①	11-8-34 11am ①	11-7-34 ①	11-5-34 ①	11-7-34 ①		11-2-34 H ③	11-10-34 ①	11-7-34 ②	11-5-34 ①	11-2-34 ②	3rd	
2nd	11-5-34 A ①	11-5-34 A ②	11-5-34 ②	11-2-34 ③	11-2-34 H ③		11-2-34-① H	11-7-34 ③	11-1-34 H ②	11-1-34 A ②	11-1-34 A ③	2nd	
Top of 1st Lift	11-3-34 ③	11-2-34 ②	11-3-34 ③	30-③ 12:32pm	11-1-34 ①		30②	10-31-34 ③	30②	10-31 ③	30②	Top of 1st	
1st	11-2-34 H ②	11-1-34 ①	11-2-34 H ①	29③	③ 10-30-34 H		29③	10-30-34 ③ H	29③	10-30-34 ③ A+H	29③	1st	
Sta	11+25 #1 Form Probe in center	11+0	10+77	10+53	10+29	10+05	10+05	9+81 24	9+57 2	9+33 20	9+09 2	8+86	
Floor	11-3-34 ③	11-2-34 ③	11-3-34 ③	30	31②		30③	31②	30③	31②	Floor 30③		

← Down Stream

# Progress Chart North

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Note

11-13-34

Not Finished

Finished

11-13-34

5th	Finished 11-10-34	FINISH 11-10-34	Finished 11-10-34	Finish 11-19-34	Finished 11-17-34
4th	✓ ①	②	①	② <sup>ovs</sup>	②
3rd	11-8-34 ②	11-7-34 ②	11-7-34 ②	11-14-34 ②	11-17-34 ①
2nd	11-7-34 ②	11-5-34 A ③ ✓	11-5-34 A ③	11-10-34 ②	11-10-34 ②
Top 1/2 of 1st	10-31 ③	11-2-34 ①	11-3-34 ③	11-9-34 ②	11-8-34 ②
1st	30 ①	10-31 ③	11-2-34 A ②	11-8-34 ②	11-5-34 ③
	8+85	8+61	8+57	8+13 28	7+90 24
Floor	31 ②	11-2-34 ①	11-5-34 ③	① 11-9-34	11-8-34 ②

#2 Stopped  
1 1/2 hrs

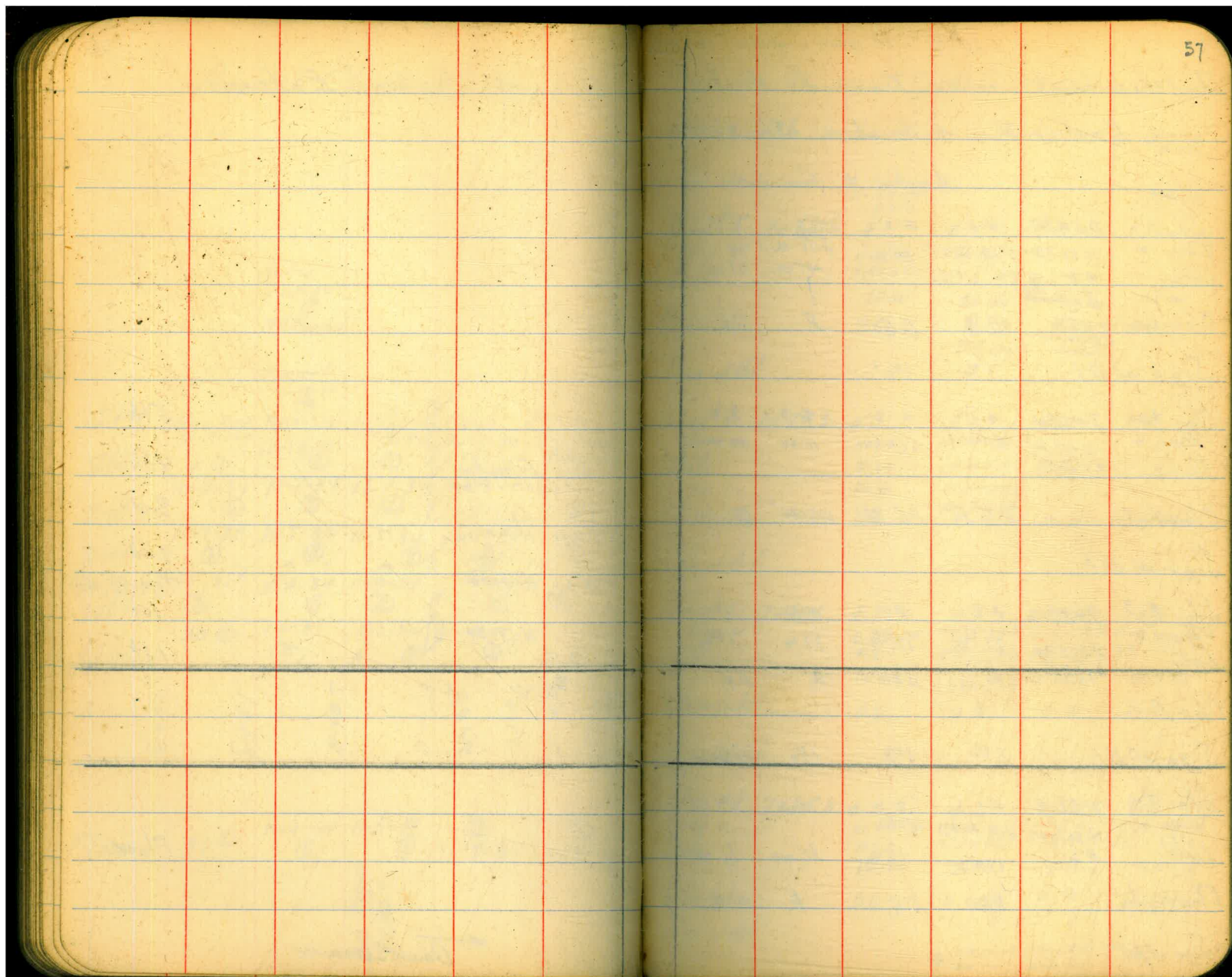
# Sidewalk Spillway Extensions

56

5th	Finished 11-14-34	Finished 11-18-34
4th	②	②
3rd	11-10-34 ②	11-17-34 ①
2nd	11-9-34 ②	11-7-34 ②
Top 1/2 of 1st	11-9-34 ②	11-7-34 ②
1st	11-8-34 ②	11-7-34 ②
	7+66 20	7+48 8
Floor	① 11-9-34	② 11-8-34

End of Contract

← Down Stream



Sta 7+40 to 8+28.4 Drilling Time for Anchors

South Sidewall Spillway Extension

Existing Row of Anchors Sta 8+28.2

Notes 36 inches deep in rock in d.g. Special 6' dia

Anchor # from bottom up

#1  
Sta 7+48.7 #1 #2 #3 #4  
Time & Date 11-24-34 #2 10 m 10 m 4-15 to 5-45 45 m. 45 m.

Classification D.G. D.G. R R  
Size of Bit 1 3/4 1 3/4

Sta #2 7+51.4 #1 #2 #3 #4  
Time & Date 11-24-34 #1 Shift 12 m 12 m 11 m 30 m

Classification D.G. 36" D.G. 36" D.G. 36" D.G. 24"  
Size of Bit

Sta #3 7+57.2 #1 #2 #3 #4  
Time & Date 11-24-34 #1 Shift 23 m 12 m 23 m 12 m

Classification R D.G. R D.G.  
Size of Bit 1 3/4 1 3/4 1 3/4 1 3/4

Sta #4 7+62.9 #1 #2 #3 #4  
Time & Date 11-24-34 #2 4-10 to 4-22 6-2 to 6-10 60 m 60 m

Classification D.G. D.G. R R  
Size of Bit

Sta #5 7+68.6 #1 #2 #3 #4  
Time & Date 11-24-34 #2 5 4-20 to 5-40 = 50 8-25 to 9-30 = 45 10-20 to 10-40 = 20

Classification D.G. R 12 R 15 m 15 m  
Size of Bit D.G. 24

Sta #6 7+74.3 #1 #2 #3 #4  
Time & Date 11-24-34 #2 3 Shift 10 m 4-5 min 29' deep Rock chisel

Classification D.G. D.G. D.G.  
Size of Bit

Sta #7 7+80.1 #1 #2 #3 #4  
Time & Date 11-24-34 #2 5 11-25-34 11-25-34 11-25-34 11-25-34 10 m 8-MIN 7-MIN 8-MIN

Classification D.G. D.G. D.G.  
Size of Bit

Sta #8 7+85.8 #1 #2 #3 #4  
Time & Date 11-24-34 #2 5 11-25-34 11-25-34 11-25-34 11-25-34 10 m 7-MIN 7-MIN 7-MIN

Classification D.G. D.G. D.G. D.G.  
Size of Bit

15 min start hole 30 min Drill

Sta 7+40 to 8+28<sup>2</sup> Drilling Time for  
 Office to Field Equations  
 $\frac{-2.92}{8725.5}$   $\frac{1}{2}$   
 Holes spaced 6' centers and

Anchor Holes South Sidewall Spillway Extension  
 inches deep in rock & in D.G.

Sta #9	7+91.5	#1	#2	#3	#4
Time & Date	11-24-34 #2	11-25-34 948-957	11-25-34 1020-1026	11-25-34 1041-1042	11-25-34
Classification	10 m. D.G.	9-MIN. D.G.	6-MIN D.G.	6-MIN D.G.	

Size of Bit

Sta #10	7+97.2	#1	#2	#3	#4
Time & Date	11-24-34 #2	11-25-34 114-115	11-25-34 1120-1107	11-25-34 1052-1053	11-25-34
Classification	10 m. D.G.	4-MIN 2-COMPRESSORS D.G.	7-MIN D.G.	6-MIN D.G.	

Size of Bit

Sta #11	8+03.0	#1	#2	#3	#4
Time & Date	11-24-34 #2	11-25-34 1121-1125	11-25-34 1123-1124	11-25-34 1132-1125	11-25-34
Classification	10 m. D.G.	4-MIN D.G.	6-MIN D.G.	6-MIN D.G.	

Size of Bit

Sta #12	8+08.7	#1	#2	#3	#4
Time & Date	11-24-34 #2	11-25-34 1129-1129	11-25-34 1129-1129	11-25-34 1129-1129	11-25-34
Classification	10 m. D.G.	6-MIN D.G.	7-MIN D.G.	7-MIN D.G.	

Size of Bit

Sta #13	8+14.4	#1	#2	#3	#4
Time & Date	11-24-34 #2	11-25-34 1041-1042	11-25-34 149-152	11-25-34 202-209	11-25-34
Classification	6.15 to 7 m. D.G.	7-MIN D.G.	6-MIN D.G.	7-MIN D.G.	

Size of Bit

Sta #14	8+20.1	#1	#2	#3	#4
Time & Date	11-24-34 #2	11-25-34 313-320	11-25-34 245-252	11-25-34 221-225	11-25-34
Classification	7 m. D.G.	7-MIN D.G.	7-MIN D.G.	4-MIN D.G.	

Size of Bit

Sta #15	8+25.9	#1	#2	#3	#4
Time & Date	8.92 8+25.82	11-25-34 320-336	11-25-34 265-282	11-25-34 221-229	11-25-34
Classification	7 m. D.G.	6-MIN D.G.	7-MIN D.G.	8-MIN D.G.	

Size of Bit

Sta #16	8+31.5	#1	#2	#3	#4
Time & Date	11-24-34 #2	11-25-34 1129-1129	11-25-34 1129-1129	11-25-34 1129-1129	11-25-34
Classification	10 m. D.G.	6-MIN D.G.	7-MIN D.G.	7-MIN D.G.	

Size of Bit



Memorandum

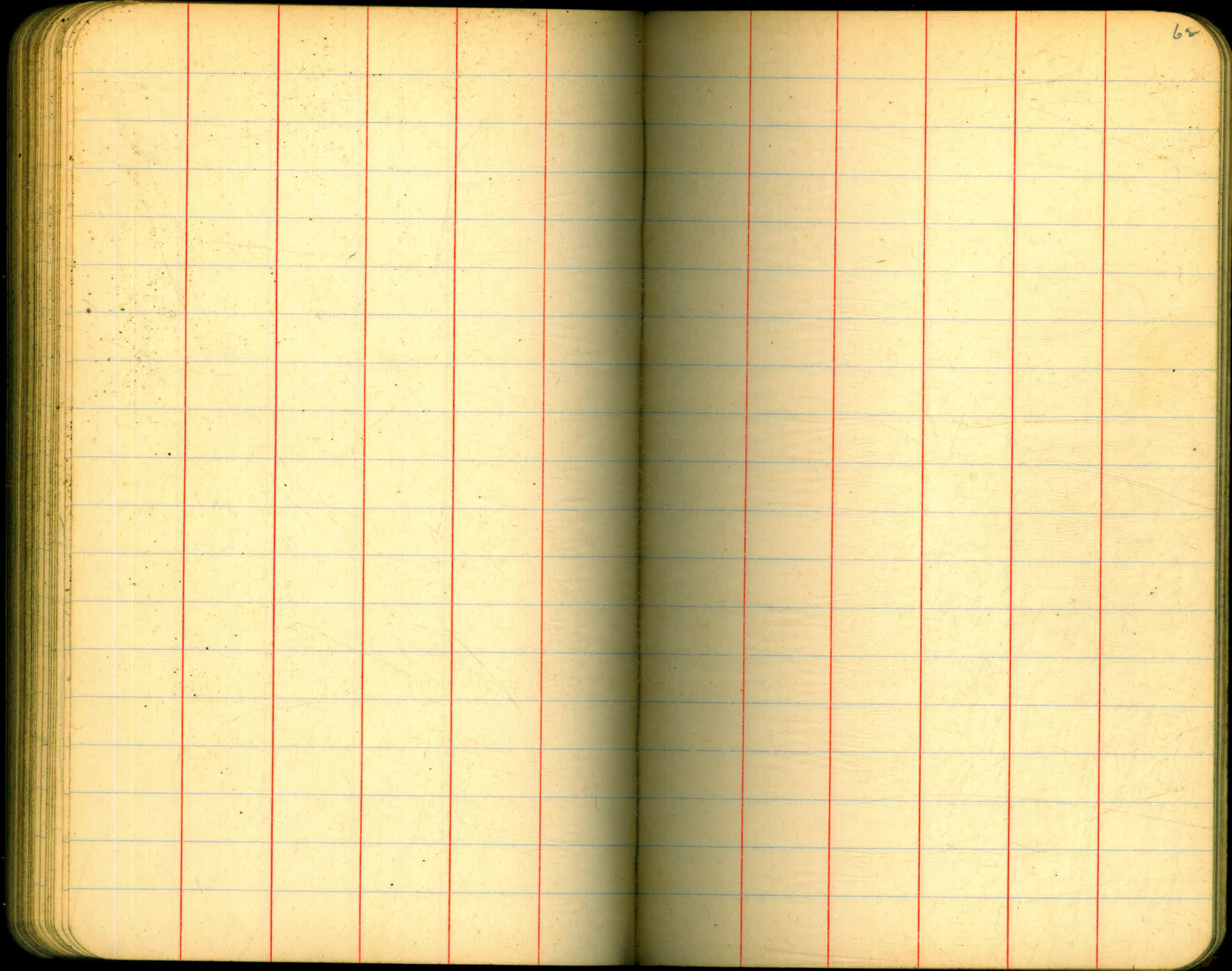
Progress Chart & location

Drilling Time for Suckers				0.6 <sub>n</sub> 36	08+25.9
South Sidewall Spillway Extension					08+20.1
					08+14.4
Equipment used & condition					08+08.7
Compressor Metalwell Worthington					08+03.0
Mfg by Metalwell Inc Philadelphia					07+97.2
2 9/16" Compressor 4 cyl. Motor 36-					07+91.5
Serial No T762 Size 110 Continental S516016					07+85.8
Jackhammer					07+80.1
					07+74.3
					07+68.6
Air line 50' 3/4" hose 340' 2" pipe					07+62.9
					07+57.2
					07+51.4
					07+45.7
Crew					07+40

Down Stream

4th  
3rd  
2nd  
1st

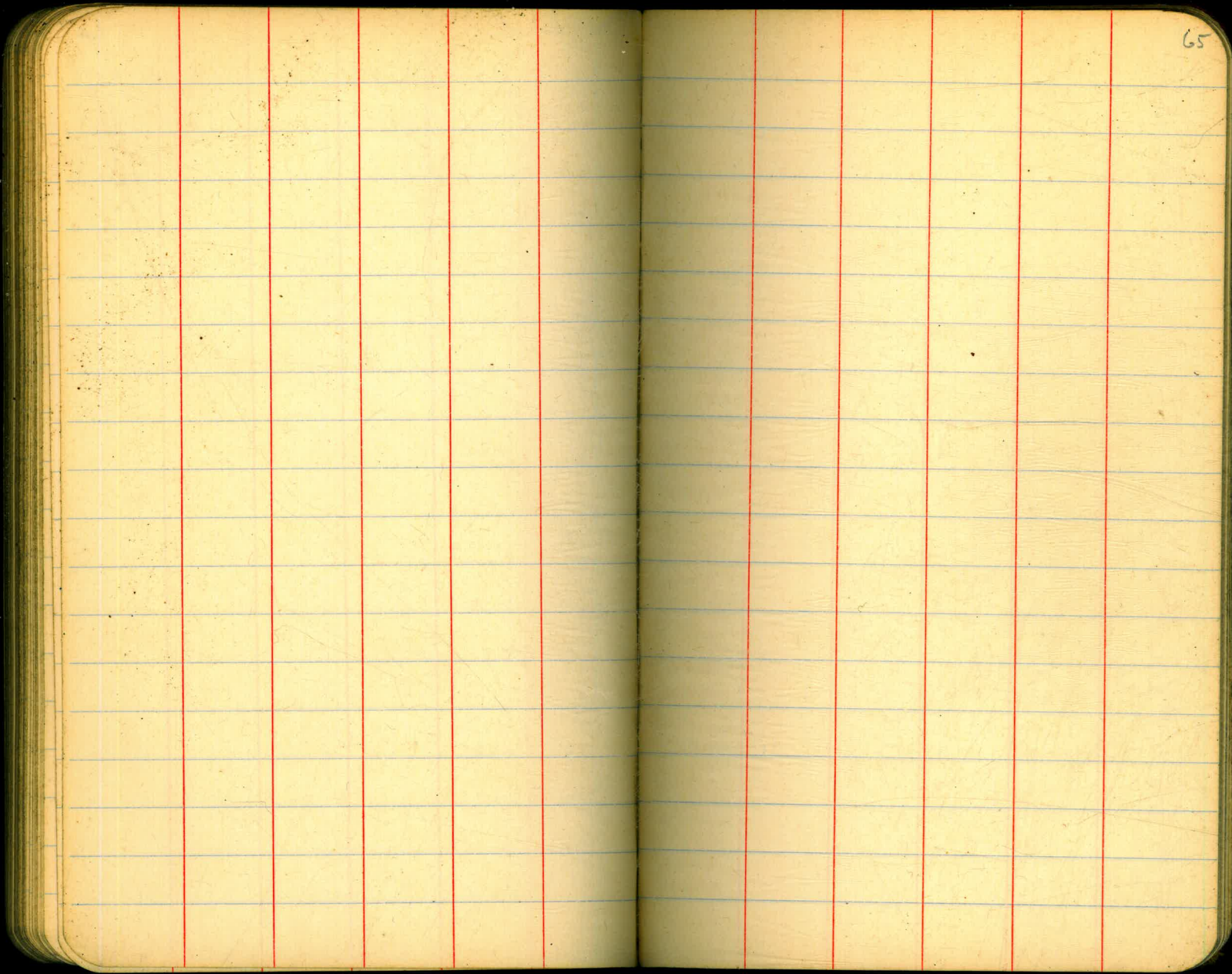




62



The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. Vertical red lines create margins on both pages. The right page has the number '64' written in the top right corner. The notebook is bound in the center, and the pages appear slightly aged with some minor discoloration and small spots.



















Nov. 15, 1934

Sidewall Mix for 2<sup>1/2</sup> Mixer using

3 scales

466#		
1/2 Sand	233+74	307 <sup>✓</sup>
524#		
1/2 Rock	262+79	341 <sup>✓</sup>
188#		
Corn	188+187	375 <sup>✓</sup>
200#		
Pea	200+73	273 <sup>✓</sup>

Borrow a plate on

small scale

Nov-16-1934

Changed mix to

Corn	188#	water 9 <sup>3/4</sup> "-10"
		in tank
Sand	466#	
1 <sup>1/2</sup> "-1"	574#	
3/4-Pea	150#	

Nov-17 - Mix change

Make 1<sup>1/2</sup>"-1" 549

Sand 491

73

Nov. 15, 1934

Sidewall Mix. for 2<sup>1/2</sup> Mixer

2 <sup>1/2</sup> cement	= 188# + 84#	= 272#
Sand	466# <sup>1/2</sup> = 233+70	= 303#
1 <sup>1/2</sup> "-1"	524# <sup>1/2</sup> = 262+85	= 347#
3/4 pea	200#	200+80 = 280#
	1190	
	3	
	3570 <sup>✓</sup>	

Nov. 17

Corn 188+88 = 276#

Nov-18

Corn	271
1/2 sand	319
1/2 rock	354
Pea	150

Oct. 30, 1934 # 5 Shift.

Meter Reading

2nd

1st 71864

Batches.

Groat.

1:2:4 Mix.

Oct. 17

Floor Mix

6sx = 56x # Cement	2sx = 188 # 188
1400 # Sand	466 # 466
1770 # 1 1/2" 1"	573 534
350 # 3/4"	184 { 118 190
200 # pea	66
<u>3670</u> ✓	<u>1223</u> 1190
	3
	<u>3669</u> 3570

$$\frac{1400}{90} = 15 \frac{1}{2} \text{ cu ft.}$$

$$\frac{1223}{83}$$

Oct 28, 1934 Bedlammer Stack Pile

97 3/4 #	
7 3/4	
<u>90 #</u>	= .8 cu ft. Sand

with 70% Bulking

weight of Sand per cu ft. =

$$.8x = 90 \quad x = \frac{90}{.8} = 112 \#$$

Oct. 17, 1934

75

Sidewalk Mix

using better grades 3/4" pea crusher rather poor grades 1 1/2" 1" (tumble fines)

Try

188 # Cement	
500 # 1 1/2" 1" = 70%	
112 3/4" = 15%	
112 pea = 15%	
<u>724</u>	
466	
<u>1190</u>	
3570	

Try. On scales.

Cement	188 # + 84 =	272 ✓
Sand	466 466	233 + 70 = 303 ✓
1 1/2" 1"	500 500	250 + 85 = 335
3/4"	112 + 80 =	192
224		
pea	112 + 80 =	192
1190		
<u>3570</u>		

N. G. changed back to mix of Oct. 15.





Oct 11, 1934.

# 3342 Dirty Arrowhead pen

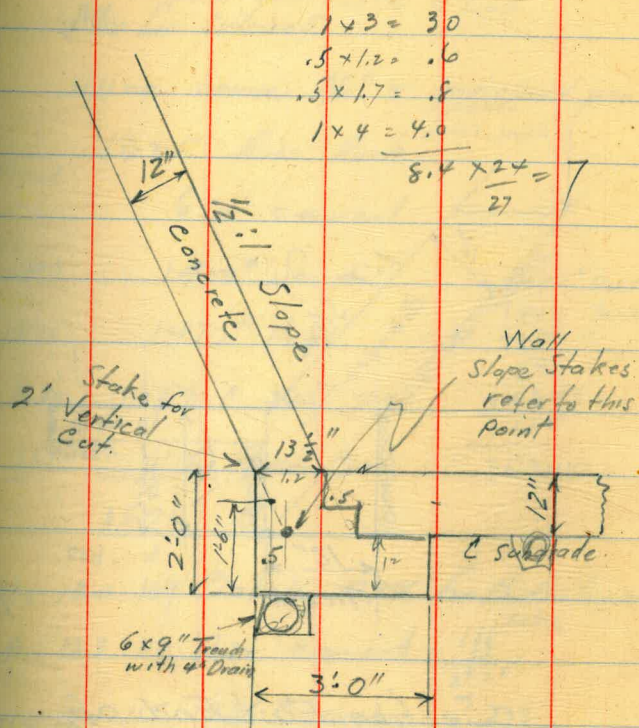
# 3343 Arrowhead pen

Podunkhamer Stack Pile

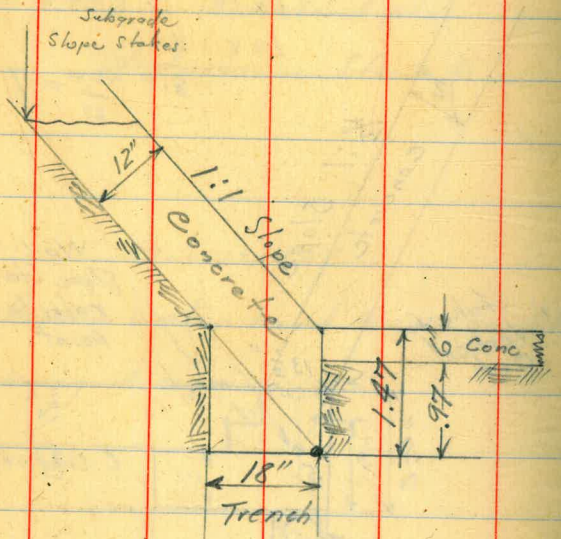
Oct. 19, 1934

Repair water tank on mixer before  
using it again.

77



Section North Sidewall  
as constructed.



Section East End of  
Ogee Apron & Abutment.  
O.V.S. Oct. 2, 1934  
OK?

Oct. 10, 1934  
Charged after 2 load.  
Mix for Sidewall  
using coarse 3/4" & crushed pea  
1 1/2" & 1" River Rock.  
65x cement.

1400	1400# Sand	1470	✓ 1/20.1"
1370	1470# 1 1/2" & 1"	1400	Sand
690	590# 3/4" 500	2870	✓
110	110 pea 200	590	
		3460	✓
		110	
		3570	✓

905 = #

39	13.0	109	Oct 11, 1934 for Bedstone	
40	13.3	111	25x cement	188 <sup>Oct 16</sup>
3				84
				292
41	13.7	115	466# Sand	253
3				70
				303
42	14.0	117	458# 1 1/2" & 1"	
3			230# 3/4"	
			36# crusher pea	266
				2
				133
				80
				213

8.38# per gal

1:2:5  
for Large overbreak sections  
on Sidewall

65x cement  
1300# Sand  
850# 2 1/2"  
970# 1 1/2 x 1"  
520# 3/4"  
200# pea  

---

3840# Total

Yield 1.08

79  
1:2:4 Mix  
for 1st pour on Sidewalls

75x cement  
1400# Sand  
1370# 1 1/2 x 1"  
600# 3/4"  
250# pea

use 3 to 5 gallons more  
water than for the regular  
65x 1:2:4 mix

Yield 1.05

1/2 Grout for joints  
on wall  
55x cement  
1000# Sand  
(Screened for lumps)  
Yield .4 cu yd.

Mix for Sidewalks

65x 1:2:4 Mix for Canyon P.C.  
3/4" pea (crushed)  
Oct 10 #2 65x cement  
✓ 1400# Sand  
✓ 1370# 1/2" & 1" Blend  
670 600# 3/4" Crusher  
110 200# crusher pea  
3570#

Yield 1.03

1:2:4 Mix for better grade of 3/4" pea

65x cement  
1300# Sand  
1420# 1/2" & 1"  
650# 3/4" pea  
200# pea  
3570

Yield 1.03

# 80  
1370  
1400  
2770  
700  
3470  
100  
3570

7th #9  
3rd #12  
2nd #14

24  
216  
1550  
1334

Overtime

Oct 11 4 to 7 staio = 5 hrs

Oct 15 \* 12<sup>30</sup> to 8<sup>00</sup> = 7 1/2 hrs

Oct 16 \* 12<sup>30</sup> to 3<sup>00</sup> = 2 1/2 hrs.

16 8<sup>00</sup> to 10 = 2 hrs.

(\* 5<sup>00</sup> a.m. to 12<sup>00</sup> = #1 shift)

56.5-1

3-2-112.

1281  
24  
57  
504  
358  
922  
549  
274  
1925  
19  
549  
79  
628

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1 1/2 TO 1.

FOR SINGLE TRACK EMBANKMENT.

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

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

48  
37)336)12.  
27  
66  
64  
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MADE IN GERMANY.