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KEUFFEL & ESSER CO.

DRAWING MATERIALS

SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

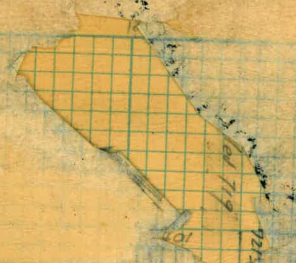
TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.
FOR SINGLE TRACK EXCAVATION.

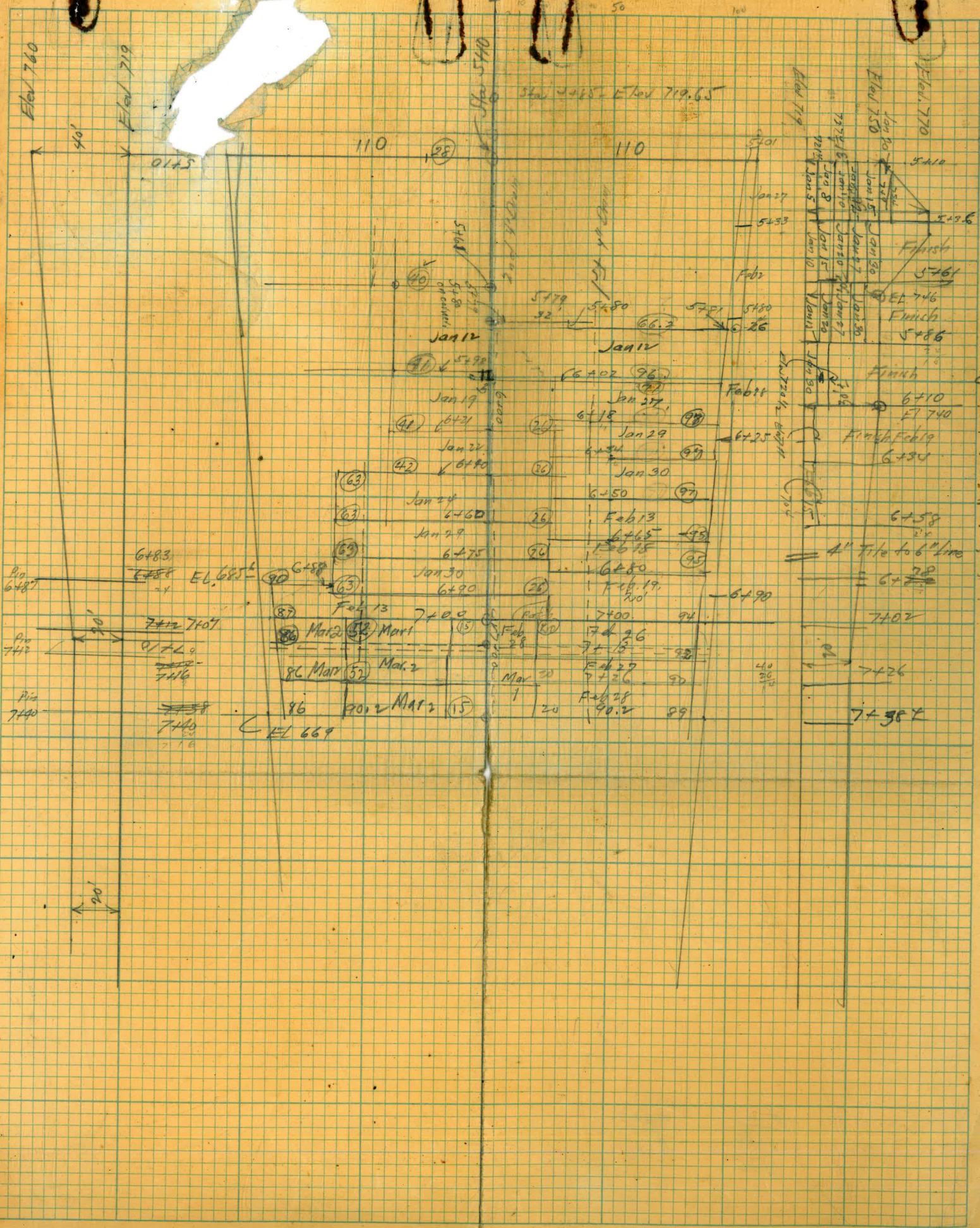
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	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	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.



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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	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 Julian A. Hall, M. Am. Soc. C. E.

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El Capitan Dam
Concrete Field Book

By
Otto Von Seggern
Concrete Inspector

Jan 23, 1934 to 3/21/34

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Jan 23, 1934 7am to 4pm

Spillway Floor

Mount Process

1- Laborer 7⁰⁰ to 7³⁰

Anchor Holes 9⁰⁰ to ⑩

1- Compressor

1- Jackhammer

1- Driller

Placing Reinf Steel 9⁰⁰ to 11³⁰

1- Steel Foreman

1- Steel Man

Clean Up

1- Finishers 2⁰⁰ to

1- Finisher Helper 2⁰⁰ to

1- Laborer 2⁰⁰ to

1389713

Jan 23, 1934 ✓ 7am to 4pm

Walled Section

Forms

1- Carpenter Foreman 7⁰⁰ to 10 = 3

3⁰⁰ to 4 = 1 1/4

1- Carpenter 7⁰⁰ to 8⁰⁰ = 1

2- Carpenters Helpers 7 to 10 = 3

Finishing

4 sq. cement

1- Finisher 7⁰⁰ to 8⁰⁰

Mount Process

1- Laborer 7³⁰ to 8⁰⁰

Clean up

1- Carpenters Helper 3⁰⁰ to 4

Jan 23, 1934 7am to 4pm

D. G. Section

Chipping Conc. 7⁰⁰ to

2 - Laborers 7⁰⁰ to 8³⁰

1 - Finisher 8⁰⁰ to 8³⁰

1 - Finishers Helper 7⁰⁰ to 8³⁰

Forms:

1 - General Foreman 7⁰⁰ to

1 - Laborer 8³⁰ to

1 - Laborer 1⁰⁰ to 2⁰⁰ = 1hr.

Candy Wagon & Driver @

1 - Carpenter 8⁰⁰ to

1 - Finishers Helper @ 1⁰⁰ to 2⁰⁰ = 1hr.

1 - Carpenter Foreman 10 to 3⁰⁰

2 - Carpenters Helpers 10 to 3³⁰

1 - Carpenters Helper 3³⁰ to 4⁰⁰

Clean & Repair Forms

1 - Finisher 8³⁰ to 11³⁰ = 3hrs.

Clean Up. 1 - Finisher 12³⁰ to 2⁰⁰

Excavation 8³⁰ to 1⁰⁰ = 3^{1/2}

1 - Compressor

1 - Laborers

1 - Finishers Helper

Jan 24, 1934 7am to 4pm

Spillway Floor

Forms: 7⁰⁰ to 8³⁰

1 - Carpenter Foreman

2 - " Helpers

Anchor Hdes.

1 - Compressor 7⁰⁰ to 11³⁰ = 4 1/2

1/2 " 12³⁰ to

2 - Jack hammers 4 1/2

1 - Jack hammer 12³⁰ to

2 - Drillers 7⁰⁰ to 11³⁰ = 4 1/2

1 - Driller 12³⁰ to

Placing Reinf Steel.

1 - Steel Foreman } 9³⁰ to 7⁰⁰ =

1 - " Man }

✓
Jan 24, 1934 Jam to 4 pm.

Side wall Stripping

1 - General Foreman 7⁰⁰ to 9⁰⁰

1 - Carpenter 7⁰⁰ to 9⁰⁰

1 - Carpenter Foreman 8³⁰ to 10⁰⁰

2 - Carpenters Helpers 8³⁰ to 10⁰⁰

1 - Candy Wagon & Driver 8³⁰ to 9⁰⁰

1 - Carpenters Helper ⊗

Clean up.

3 - Laborers 7⁰⁰ to 9⁰⁰

Anchor Holes 12³⁰ to 4

1/2 Compressor

7 Jackhammers

1 - Loader Drilling

1889713

✓
Spillway Floor Concrete

3
5x cleaned.
⊗ 13⁰⁰
only once

Mix 1.7:4^{6.5x} 6.8 Batches Conc. 4085x

Start 9⁰⁰ Finish 1⁰⁰ 3 Delays 7⁰⁰ to 9¹⁵

Sta 6+40-265 to 63N

Sta 6+60-265 to 63N

1 - Mixing Plant

1 - Barber Greene & Track

3 - Blaw Knox Truck Mixers

1 - Cat. 60

1 - Mixerman

4 Men

Conc. Del. 3 - Truck Drivers

1 - Cat. operator

Placing Conc. 3 - Laborers to 11³⁰

2 - Laborers 12³⁰ to 1⁰⁰

Finishing 1 - Finishers Helper 9⁰⁰ to 3⁴⁵

1 - Finisher 9³⁰ to 3⁰⁰

Hammer Process

1 - Laborer 2⁰⁰ to 4 = 2

Jan 24, 1934 Taw to 4 pm.

O. G. Section

Stripping

- 1- Finisher 7⁰⁰ to 9⁰⁰
- 1- Finisher Helper 7⁰⁰ to 9⁰⁰

Forms

- 1- General Foreman 7⁰⁰ to 4
- 1- Carpenter 7⁰⁰ to 4
- 2- Carpenters Helpers 10 to 4
- 1- Carpenter Foreman 10 to 4

Clean up

- 2- Laborers 7⁰⁰ to 4

1339713

4

Jan 24, 1934 Taw to 4 pm

O. G. Section

Star 0⁰⁰ to 0⁴² El. 745 to 750

Mix 1:2 1/2 ^{55x} 52 Batches Conc. 1 Batches Grout.

Start 12³⁰ Finish 2⁰⁰ = 1 1/2 260 ✓
5 ✓
265 5x.

- 1- Mixing Plant
- 1- Barber Greene
- 2- Blaw Knox Truck Mixers

1- Mixer man

4- Men

Conc Delivery 3- Truck Drivers

Placing Conc 1- Laborer 12³⁰ to 2 = 1 1/2

2- Laborers 1⁰⁰ to 2 = 1

Finishing

1- Finisher 3⁰⁰ to 4

1- Finisher Helper 3⁰⁰ to 4

Jan 25, 1934 Jan to 4 pm

So. Side Wall

Anchor Holes 7⁰⁰ to 9⁰⁰ = 2

1/2 Comp. pr.

1- Jackhammer

1- Driller (Ladder)

Stripping &

Forms

1- Carpenter Foreman } 9⁰⁰ to 9³⁰ } 4⁰⁰

1- Carpenter } 3⁰⁰ to 4⁰⁰ }

1- " Helper.

1- " Helper. 10⁰⁰ to 1³⁰ = 2 1/2

9⁰⁰ to 4⁰⁰ = 2

2- Laborer 3⁰⁰ to 4⁰⁰ = 1

Clean up 1- Driller 7⁰⁰ to 10⁰⁰ = 3

1- Corp. Helper 9⁰⁰ to 10⁰⁰ = 1

Jan 25, 1934 Jan to 4 pm

Spillway Floor

Anchor Holes 7⁰⁰ to 8⁰⁰ = 1

1/2 Comp. pr. 9⁰⁰ to 2⁰⁰ = 4

1- J. H.

1- Driller

Forms 2³⁰ to 3⁰⁰ = 1/2

1- General Foreman

1- Carpenter Foreman

1- " Helper

1- Laborer

1- Carpenter

1- Batches 1:2 Grout 6.5x

Grouting Anchor Holes 9³⁰ to 3³⁰ = 1

1- Blaw Knox Truck Mixer

2- Laborers

1- Truck Driver

16' Laying 2nd line S of 4' Tilt Sta 6+02 to 6+18

2- Laborer 2³⁰ to 3⁰⁰

Clean up 2- Laborers 3³⁰ to 4⁰⁰ = 1/2

1- Laborer 3⁰⁰ to 4⁰⁰ = 1

✓ Clear & Cdd.
Jan 25, 1934 7am to 4pm.

Warped Section 6' Lift. (4)

Copper 13'

Sta 5+10 to 5+26 Elev 754 to 761

Sta 5+10 to 5+36 Elev 755 to 761*

Mix 1:2:5 65% yield = $36 \times 1.12 = 40.32$

$\frac{36}{51.65\%}$ Batches Conc 1 Batches Grout

$\frac{5.5\%}{221.5\%}$ Start 7:00 Finish 9:45 = 2 1/4

1- Mixing Plant

1- Barber Greene & 1 Truck

1- No 11 Crane

2- Bow Knox Truck Mixers

1- Mixerman

4 Men

Conc Delivery 2- Truck Drivers

Placing Conc. 2- Laborers 7:00 to 8:30 = 1 1/2

3- Laborers 8:30 to 9:45 = 1 1/4

1- No 11 Crane Operator

1- " " Oiler

✓ Jan 25, 1934 7am to 4pm.

O.G. Section 7:00 to 9:00 = 2

Stripping 1- Gen Foreman.

1- Carpenter Foreman

1- Carpenter

2- " Helpers

1- Finisher

1- " Helper

Finishing

1- Finisher

} 10 to 4 = 5 hrs.

1- Finisher Helper

Hunt Process. 7:00 to 8:30 = 1 1/2

1- Comp. } 2:30 to 3:00 = 1/2

1- Laborer }

Clean up. 9:00 to 10:00 = 1 hr.

1- Finisher

1- " Helper

Jan 25, 1934

O. G. Section

Mix 1:2 1/2:5 5 sx

Cleaned 900 sx
-100
Reclaimed 800
7 am to 4 pm 10 sx

Yield $154 \times 1.1 = 169$ cu yds.
Finishers 8 mix + 4 = 12 sx

154 Batches Conc 2 Batches Grout

Start 9⁰⁰ Finish 2³⁰ =

1 - Mixing Plant

$\frac{13.50}{2.95} = 3\frac{3}{4}$ hrs.

- 1 - Barber Greene & 1 Truck
- 2 - Blaw Knox Truck Mixers 9⁰⁰ to 10⁰⁰ @
- 3 - Blaw Knox Truck Mixers = 3 3/4

1 - General Foreman

1 - Mixer man

2 Men.

Conc Del. 3 - Truck Drivers

Placing Conc 3 Laborers

Agg Supply 1 - Truck Driver

Forms 1 - Carp Helper 1³⁰ to 2⁰⁰ = 1/2

1 - Laborer 2³⁰ to 2³⁰ 8' lift ✓

Sta 0+24 to 0+28 Elev 730 1/2 to 739

7

Jan 26, 1934

Spillway Floor.

Anchor Bolts. 7⁰⁰ to 4⁰⁰

1 - Compressor

2 - Jackhammers

2 - Drifters

1/2 Nipper

4 lines complete

to 25 5' 2'
Check
Record 243

Placing Reinf Steel 12⁰⁰ to 4⁰⁰

1 - Steel Man

1 - Steel Foreman

Clean up & laying tile drain

1 - laborer 10 to 11³⁰ 2⁰⁰ to 3⁰⁰ = 1 = 1 1/2

= 1/2
1 - General Foreman 2⁰⁰ to 3⁰⁰

1 - Carp " 2⁰⁰ to 3⁰⁰

1 - " Helper 2⁰⁰ to 3⁰⁰

6" Tile Drain Sta 5+ to 5+23 = 50 feet

✓
Jan 26, 1934 7am to 4pm

Warped Section

Stripping

1- Finisher Helper 10

Clean Up

1- Laborer 9³⁰ to 10⁰⁰

Forms

1- Carpenter 7⁰⁰ to

✓
Jan 26, 1934 7am to 4pm

O. G. Section 7⁰⁰ to

Forms

1- General Foreman 7⁰⁰ to 9³⁰

1- Carpenter Foreman 7⁰⁰ to 9³⁰

1- Carpenter 7⁰⁰ to 9³⁰

2- Carpenter Helpers ^{7⁰⁰} to 9³⁰

2- Laborers 7⁰⁰ to 8⁰⁰

1- Carpenter Helper ~~9³⁰~~ to

Clean Up

2- Laborers 8⁰⁰ to 11³⁰ 3 1/2 ✓ + 1 = 4 1/2

1- Laborer 8³⁰ to 9³⁰ 3⁰⁰ to 4⁰⁰

Finishing

1- Finisher 7³⁰ to

1- " Helper

Heat Process 1- Laborer 3⁰⁰ to 4⁰⁰ = 1 hr

Oiling Forms

1- Laborer 7⁰⁰ to 8³⁰

✓
Jan 26, 1934 7am to 4pm.

So. Side Wall

Forms

9³⁰ to 2⁰⁰ = 3¹/₂

1- General Foreman to 2⁰⁰ 3⁰⁰ to 4⁰⁰

1- Carpenter Foreman } 8⁰⁰ to 4⁰⁰ = 4¹/₂

1- " Helper }

1- Carpenter ✓ 9³⁰ to 2⁰⁰ = 3¹/₂

1- Laborer 12³⁰ to 2⁰⁰ = 1¹/₂

* 1- Carpenter Helper to Repair Curbs on Bunkers

4" Weep Hole Tile 8 feet.

Placing Reinf Steel 9⁰⁰ to 11³⁰ = 2¹/₂

1- Steel Foreman

1- " Man.

Clean Up & Laying Tile

2- Laborers 12³⁰ to 2⁰⁰ = 1¹/₂

1- Laborer 2⁰⁰ to 4⁰⁰ = 2

Line Under wall

4" Tile Drain Sta 5+92 to Sta 6+21 = 29'

Mr. Wood from 3⁰⁰ to 4⁰⁰ inspecting work

✓
Jan 27, 1934 7am to 4pm

So. Side Wall

7⁰⁰ to 7³⁰

Wetting Conc 1- Water Tank Truck & 3¹/₂ laborer

Mix 1:2:4 75x 4 Batches Conc 285x

1:2:4 65x 21 Batches Conc 126

Start 7³⁰ Finish 9⁰⁰ = 1¹/₂

154

1- Mixing Plant

1- Barber Greene Truck

3- Blaw Kiss Truck Mixers

1- Nall Crane

1- General Foreman

1- Mixer man

4 Men

Conc Del 3- Truck Drivers

Place 2 Laborers

1- Nall Crane Operator

" " Oiler

agg Supply 1- Truck Driver

Sta 5+36 to 5+61 Elev 733 to 739

Sta 5+61 to 5+85 Elev 725 to 731

Jan 27, 1934 7am to 4pm.

So. Side Wall

Forms 7⁰⁰ to 4

1- Carpenter Foreman = 8

1- Carpenter = 8

1- " Helper = 8

1- " Helper 7⁰⁰ to 10⁰⁰ 4 = 6
2⁰⁰ to 4 = 2

1- General Foreman 9⁰⁰ to 11⁰⁰ = 2

Anchor Holes 7⁰⁰ to 2³⁰ = 6^{1/2}

1/2 Comp

1- Jackhammer

1- Driller

1300 sq cleared¹⁰
1054 Reclaimed.

Jan 27, 1934 7am to 4pm.

O.G. Section

Finishing 7⁰⁰ to 9⁰⁰ = 2

1- Finisher 7⁰⁰ to 4 = 2+2 = 4

1- " Helper 8 = 2

Mix 1 1/2 1/2 5 $\frac{88}{5}$ Batches 2 Batches Grout¹⁰

Start 11⁰⁰ Finish $\frac{2^{30}}{1,3^{30}} = 2\frac{1}{2}$ $\frac{4^{40}}{4^{50}}$

1- Mixing Plant

1- Barber Greene 8 1 Truck

3- Blaw Knox Truck Mixers

1- General Foreman

1- Mixerman

4 Men

Conc Del 5- Truck Drivers

Placing Conc 3- Laborers

Agg 1- Truck Driver

Hand Process 1 Laborer & Comp 2³⁰ to 3⁰⁰ = 1/2

Sta 0+94 to 0+46 Elev 739 to 745

Copper 10'

✓
Jan 27, 1934 7:00 to 4:00 pm

Spillway Floor

Anchor Holes 7:00 to 4:00

1. Compressor

2. Jackhammers

2. Drifters

Wetting & Clean Up. 7:30 to 9:00 = 1 1/2

1. Laborer & Water Tank Truck

Mix 1:2:4 65x 55, Batches Carr
53.5 336

Start 9:00. Finish 11:00 = 2

Sta. 6+02 from 26.5 to 97'
16

(a) to Sta 6+18 from 26.5 to 97'
16 1/2

(b) Sta 5701 from Top O.G. to 7' N

to Sta 5733 from Base line of So. Side Wall to 7' N

1. Mixing Plant 1. Mixer man

3. Blaw Knox Truck Mixers 4. Men.

1. Barber Greene & 1 Truck 1. T. Driver

1. Cat. 60 3. T. Drivers

Finishing 1. Finisher 2. 9:00 to 9:00
1. " helper 1. Cat operator

Placing Rein Steel 7:00 to 11:30 = 4 1/2

1. Steel Foreman

1. Man.

Forms
1. Carp Helper 10:00 to 2:00
= 3 hrs.

✓
Jan 27, 1934 7 am to 4 pm

Spillway Floor

Grouting Anchor Holes 1- Batches
1:2 Grout
65x

Start 2:30 Finish 4:00 = 1 1/2

1. Blaw Knox Truck Mixer 1/2 to Floor 45x
1/2 to So. wall 25x

1. Truck Driver

2. Laborer.

Laying 4" Tile 2nd Lines.

Sta. 6+18 to 6+34

2. Laborers 2:30 to 4:00 = 1 1/2

Hunt Process.

1. Laborer 3:00 to 4:00 = 1

Sunday Jan 28 ✓

Jan 29, 1934 Dawn to 4 pm.

Spillway Floor. 32 gallons add. water.

Start 7³⁰ Finish 10³⁰ Delay 7³⁰ to 8⁰⁰
= 2+3=6 hrs. occ. no water.

Mix 1:2:4. 65x 98 Batches.

Sta 6+18 from 26'S to 97'S $\frac{588}{6}$ 594 ✓

Sta 6+34 from 26'S to 97'S

1- Mixing Plant. 400 cleared ✓

1- Barber Grease

2- Blaw Knox Truck Mixers (from 1 pm to 2 pm)

1- Cat 60

1- General Foreman

1- Mixer man

4- Men.

Concl Del 2 Truck Drivers from 1⁰⁰ pm to 2 pm.

Placing Conc 3- Laborers

1- Cat operator

Agg Supply 1- Truck Driver

Finishing 1- Finisher 8⁰⁰ to

1- Helper.

Jan 29, 1934 Dawn to 4 pm. ✓

Spillway Floor. Continued.

Draining Anchor Holes. 1 Batch 1:2:4. 65x

Start 10³⁰ Finish 11³⁰

1- Blaw Knox Truck Mixer

1- Truck Driver

2- Laborers.

1- Cat. 60

1- Cat 60 operator.

Concrete

Mix 1:2:4 continued Batches.

Start 1⁰⁰ Finish 4⁰⁰ = 3

Sta 6+60-63'N to 26'S.

Sta 6+75-63'N to 26'S.

2- Blaw Knox Truck Mixers 1 hr.

3- Blaw Knox Truck Mixers 2⁰⁰ to 4 = 2

2- " " 2⁰⁰ to - 2

2- " " 2⁰⁰ to - 2 1 hr.

✓
Jan 28, 1934 Sunday

Jan 29, 1934 Town to 4 pm.

Spillway Floor.

Drilling Anchor Holes. 7⁰⁰ to 12³⁰ to 4 = 3 1/2

1/2 Compressor

1/2 Nipper ⊗

1- Driller

Working Conc. 1- Water Tank Truck & laborer 12³⁰ to 1⁰⁰ = 1/2

Clean Up & Laying Tile 2nd & 4th Sta 6+18 to 6+34

2- Laborers 7⁰⁰ to 7³⁰ = 1/2 + 1/2

3- Laborers. 12³⁰ to 1⁰⁰ = 1/2 2nd & 4th Line N
6+60 to 6+75

Forms 1- Carpenter Helper

7³⁰ to 8⁰⁰ = 1/2 9³⁰ to 11⁰⁰ = 1/2

1- Carpenter Foreman 9³⁰ to 11⁰⁰ = 1 1/2

1- Laborer 9³⁰ to 10⁰⁰ = 1/2

Placing Reinf Steel 8⁰⁰ to 11³⁰ = 3 1/2

1- Steel Foreman

1- " Man

Laying 4" Tile at 2 Sta 6+60 to Sta 6+75

2- Laborer 10³⁰ to 11³⁰ = 1 hr ⊗

✓
Jan 28 Sunday Chipping Conc 13

Jan 29, 1934

1- laborer

O.G. Section

Stripping 7⁰⁰ to 8³⁰ = 1 1/2

1- Finisher

1- " Helper

Forms. 3⁰⁰ to 4⁰⁰ = 1

1- Carpenter Foreman

1- Carpenter.

Water Tank

1.7

7.5 dia x 3' high

Vol = $\pi \times .75^2 \times 3 = 5.28$ cu ft x 7.5 = 39.6 gal.

gal per inch = $\frac{49.6}{36} = 1.36$ gal.

49

35

14

10

1.36 | 14.00
136
40

✓
Jan 29, 1934 7am to 4pm

So. Side wall

Forms.

3 1. Carpenter Foreman 7^{00} to 9^{30} 11^{00} to 11^{30}
 12^{00} to 3^{00} $= 2\frac{1}{2}$ $= \frac{1}{2}$
7 1- carpenter 7^{00} to 3^{00} $= 7$
6 1- " Helper 7^{00} to 7^{30} 8^{00} to 9^{30} 11^{00} to 11^{30}
 12^{00} to 4^{00} $= 3\frac{1}{2}$ $= \frac{1}{2}$
1 1- Laborer 10^{30} to 11^{30} $= 1$

14

✓
Jan 30, 1934 7am to 4pm.

So. Sidewall

Forms.

1. Carpenter Helper 7^{00} to 8^{00} 3^{00} to 4^{00} $= 2$
1. Carpenter Foreman 3^{00} to 4^{00} $= 1$
1. Carpenter 3^{00} to 4^{00} $= 1$

Cleanup

3. laborers } 7^{30} to 8^{30} $= 1$
Water Tank Truck }

No Side Wall 7^{00} to 4^{00} $= 8$ hrs.

Drilling Anchor Holes

$\frac{1}{2}$ compressor

1- Jackhammer

1- Driller

✓
Jan 30, 1934 7⁰⁰ to 4⁰⁰

O.G. Section

Forms.

- 1 - General Foreman 7⁰⁰ to 8³⁰ = 1 1/2
- 1 - Carpenter Foreman 7⁰⁰ to 8⁰⁰ = 7
- 1 - Carpenter 7⁰⁰ to 8⁰⁰ = 7
- 1 - Carpenter Helper 7⁰⁰ to 8⁰⁰ = 7
- 2 - Laborers. 7⁰⁰ to 7³⁰ = 1 1/2

Finishing 7⁰⁰ to 10⁰⁰ = 3

1 - Finisher

1 " Helper

✓
Jan 30, 1934 7am to 4pm.

Spillway Floor

Clean up. 7⁰⁰ to 9³⁰ = 2 1/2

2 - Laborers or Muckers

1 - Compressor

2 - Laborers & Water Tank 8³⁰ to 9⁰⁰ = 1/2

1 - General Foreman 8³⁰ to 9⁰⁰ = 1/2

Forms 1 - Carp. Helper 8⁰⁰ to 11⁰⁰ = 3

Laying Tilt Drain 6+75 to 6+90 6+35 to 6+50

2 - Laborers. 8³⁰ to 9⁰⁰ = 1/2

Hunt Process. 12³⁰ to 4 = 3 1/2

1 - Carpenter Helper

1 - Compressor

✓ 1900 Cleaned
12 sq Reclaimed

Jan 30, 1934 7am to 4pm.

Spillway Floor Finisher 4 sq

Mix 1:2:4 52 Batches = 516 sq

Start 9:00 ^{3.4}/_{8.6} Finish ^{11:00}/₂ Delay 9:00 to 9:30

Sta 6+75 63N to 265 ^{4:15}/_{1 1/2} ^{3:34}

to Sta 6+90 63N to 265.

1- Mixing Plant

1- Barber Greene Truck Oct at 10:00 am ^{1/4}
1- No 8 Shovel & approach ^{2 1/4}

2- Blaw Knox Truck Mixers to 10:00 = 1

3- " " " 10 to 11 = 2 1/4

1- No 60 Cat.

1- General Foreman 3 1/4

1- Mixerman

4- Men

Car Del. 2- Truck Drivers 9 to 10 = 1

3- " " 10 to 11 = 2 1/4

Plac Con. 3- Laborers to 11:30 = 3 3/4

1- Cater operator = 3 1/4

Finishing 1- Finisher 10:00 to 5 = 6

1- " Helper

Sta 6+34 from 265 to 97.5

to Sta 6+50 from 265 to 97.5

66
516

✓ Jan 30, 1934 7am to 4pm.

So. Side Wall ^{1/2 hr. extra}

Mix 1:2:4 75x(a) 12 Batches = 84

1:2:4 65x(b) 24 Batches 14 1/4

Start 11:00 Finish 3:00 = 3 hrs ^{22 8}

Sta 5+36 to 5+61 Elev 739 to 744

Sta 5+61 to 5+86 Elev 736 to 736

Sta 5+86 to 6+10 Subgrade to Elev 714

1- Mixing Plant

1- Barber Greene Truck 1 #8 Shovel

3- Blaw Knox Truck Mixers

1- Hoist Crane

1- General Foreman

1- Mixerman

4- Men

Car Del. 3- Truck Drivers

Plac Con. 7- Laborer

3- Laborers 12:30 to 3:00 = 2 1/2

1- Carp. Helper } 1/2 hr.

1- Hoist Crane Operator

1- Cat operator

1- Hoist Operator

✓ See about Anchor holes
Jan 31, 1934 7am to 4pm.
To Side Wall

Forms. 7⁰⁰ to
1. General Foreman 8³⁰ to
1 - Carpenter Foreman

1 - Carpenter
1 - Carpenter Helper

1 - Carpenter Helper.
(See Continued)

Stripping

1. Laborer 8³⁰ to 9⁰⁰

Finishing 7⁰⁰ to 10³⁰ 10³⁰ to

1 - Finisher

1 - " Helper

No. Side Wall

Anchor Holes 7⁰⁰ to 9³⁰

1/2 compressor

1 Jackhammer

1 - Driller

✓ Under S. Wall.

Laying 4" Tile Sta 6+10 to 6+34

2. Laborers 8³⁰ to 9⁰⁰

✓
Jan 31, 1934 7am to 4pm.
O.G. Section

Clean up 1. General Foreman.

3. Laborers 7⁰⁰ to 7³⁰

Mix 1:2 1/2:5 52 Batches Conc. 260 ✓

260
2 Batches Grout. 10 ✓

270 ✓

Start 7³⁰ Finish 8³⁰

1 - Mixing Plant

1 - No. 8 Shovel

3. Blow-knux Track Mixers

1 - Bulldozer 6 hrs.

1 - General Foreman

1 - Mixer man } 1hr. General
Clean up
2hrs.

4. Men.

Con. Del. 3. Truck Drivers

Place Conc. 3. Labor

8³⁰ to 9⁰⁰ Moving Bulldozer to Sta 2+00

8³⁰ to 9⁰⁰ Moving # 8 to to Sta 2+00

Sta 0+24 to 0+48 Elev 745 to 750.

Finishing 1 - Finisher 10³⁰ to 11³⁰

1 - " Helper.

✓
Jan 31, 1934 7 am to 4 pm.

So. Side Wall. Continued

Chipping Conc.

3. Laborers. 9⁰⁰ to 9³⁰

Reinf.
Placing, Steel.

1. Steel Foreman } 9³⁰ to 10³⁰

20 - 5/8" d Bent Dowels. 4' 9" long.

Forms.

3. Laborers. 9³⁰ to 9³⁰

Clean up.

3. Laborers. 9³⁰ to

✓
Jan 31, 1934 7 am to 4 pm.

Spillway Floor.

Anchor Holes. 12³⁰ to 2³⁰

1. Compressor.

2. Jack hammers

2. Drillers

5x Cleaned 1600 125x Reclaimed
Feb 1, 1934 7am to 4pm.

So. Side Well
Farms. 700 to

1- General Foreman.

1- Carpenter Foreman

1- Carpenter

1- Carpenter Helper

1- Carpenter Helper

1- Laborer 9³⁰ to 10⁰⁰ 12³⁰ to 4 - 4

Cleanup 7⁴⁰ to 11³⁰ 12³⁰ to

1- Laborer 2- Laborers

1 ~~1/2~~ Compressor 1/2 Comp. to 9⁰⁰

Hunt Process. 7⁰⁰ to 8⁰⁰ 10⁰⁰ to 11³⁰
1 1 1/2

~~1/2~~ Compressor

1- Laborer

Finishing 7⁰⁰ to

1- Finisher

1- " Helper

Anchor Holes 12³⁰ to. &

1/2 compressor

1- Jackhammer

1- Driller

Feb 1, 1934 7am to 4pm.

O.G. Section

Cleanup 8⁰⁰ to 9³⁰

1- Truck

1- Truck Driver

1- Laborer

Hunt Process. 8⁰⁰ to 9³⁰ = 1/2

1- Laborer

Feb 1, 1934 7am to 4pm

Cornwall Excavation 7³⁰ to 4 = $5\frac{1}{2}$
2¹/₂

1- Truck No 34
1- Nail Crane

1- " " Operator

1- " " Oiler

1- Driller

2- Muckers

1- Truck Driver

1- Compressor 12³⁰ to.

Feb 1, 1934 7am to 4pm

Spillway Floor

Anchor Holes 11⁰⁰ to 3⁰⁰ = 3 hrs.

1 compressor

1- Jackhammer

1- Driller

Feb 2, 1934 7am to 4pm

Spillway Floor

Clean Up & Placing Steel 7⁰⁰ to 8⁰⁰

1- Carpenter Foreman 7⁰⁰ to 9⁰⁰ = ✓

2- " Helpers 7⁰⁰ to 8⁰⁰ = 1

1- Carpenter 7⁰⁰ to 9⁰⁰ = ✓

Laying 6" Drain Stw 5+33 to 5+80

Placing Reinf Steel 10⁰⁰ to 11⁰⁰ = 1 1/2

1- Steel Foreman

1- Steel Man

Mix 1:2:4 6cy 13 Batches Conc 780x

Start 1⁰⁰

Finish 3⁰⁰ Delay 1 Truck

1- Mixing Plant

2 Blaw Knox Truck Mixers to 1⁰⁰

1 Blaw Knox Truck Mixer 1⁰⁵ to 2⁴⁵

1- General Foreman 8³⁰/₃

1- Mixerman

4- Men

Conc Delivery 2- Truck Drivers

Placing Conc 2 Laborers
1- Carpenter Helper

Finishing 1- Finisher } 2⁰⁰ to 4⁰⁰ = ✓
1- " Helper }

Sta 5+33 to 5+80 from Base Line to 7'N

Feb 2, 1934 7am to 4pm

Crew for Excavation 7⁰⁰ to 9⁰⁰ 2⁰⁰ to 4

2- Hackers } = 4 hrs

1- Driller }

1- Hoist Crane }

1- Hoist Crane Operator } 1⁰⁰ to 4 = 2 2/3

1- " " Oiler }

1- Truck Driver } 2⁰⁰ to 4 = 2

1- Truck }

Spillway Floor - Continued

Anchor Holes 11⁰⁰ to 2⁰⁰ = 2 hrs

1- Compressor

1- Jackhammer

1- Driller

Clean Up 3⁰⁰ to 4 = 1 hr

1- Laborer

1- Carpenter Helper

Feb 2, 1934, 7am to 4pm

South Side Wall.

Cleaning & Wetting Forms 7⁰⁰ to 8⁰⁰ = 1

- 1 - Water Tank Truck
- 2 - Laborers

1 - General Foreman Finisher (4)

48 gal Mix 1:2:4 (a) 7sx 12 Batches 80.5

40 gal. (b) 6sx 3.8 Batches 278.5

Start 8⁰⁰ Finish 1⁰⁰ Delays 312
= 4

1 - Mixing Plant

1 - no equipment on stock pile

2 Blaw Knox Track Mixers

1 - No 11 Crane

1 - General Foreman

1 - Mixerman

4 men

Car Del. 2 Truck Drivers

Plac Conc. 2 Laborers, 1 No 11 Crane Operator & 1 Oiler

1 - Carp. Helper

Feb 2, 1934, 7am to 4pm

O.G. Section

Finishing 7⁰⁰ to 2⁰⁰ = 6 Hunt Process

- 1 - Finisher
- 1 - " Helper

1 - Laborer 3³⁰ to 4⁰⁰ = 1

So. Side Wall Continued

Sta 5+36 to 5+61 Elev 744 to 750

Sta 5+61 to 5+86 Elev 736 to 742

Sta 5+86 to 6+10 Elev 714 to Elev 720.

Sta 6+10 to 6+34 Subgrade to Elev 714
Gridding 800 to 900

1 - Carp. Helper = 1

Turns 7⁰⁰ to 4⁰⁰ = 6 hrs.

1 Carpenter Foreman

1 - Carpenter

1 - Carpenter Helper

Hunt Process 3⁰⁰ to 3³⁰ = 1/2

1 - laborer

50 - Ladder Rungs 1" ϕ x 5'-4"

Test Samples. 1' 2" 4 6sx 40 gal

Sta 6+10 to 6+34 Elev Subgrade to Elev 711
Somewhat over sanded.

2070, 71, 72.

✓
Feb 3, 1934 7am to 4pm.

So. Side Wall.

Chipping Conc. 7⁰⁰ to 8⁰⁰ = 1 hr

1- Laborer

1- Carpenter Helper

Forms. 7⁰⁰ to 4⁰⁰ = 8

1- General Foreman

1- Carpenter Foreman

1- Carpenter Helper } 8⁰⁰ to 4⁰⁰ = 7

1- Laborer ✓

¹⁵
Finishing $10^{\frac{30}{45}}$ to 4 = 4 1/2

1- Finisher

1- " Helper.

23
↓
Feb 3, 1934 7am to 4pm.

1- Corewall Excavation 7⁰⁰ to 4⁰⁰ = 8

1- No 11 Crane

1- No 34 Truck

1- No 11 Crane Operator

1- " " Oiler

1- Driller

2- Muckers

1- Truck Driver

1- Compressor

Excavation 7⁰⁰ to 9⁰⁰ 10⁰⁰ to 4 = 6 1/2

Timbering 9⁰⁰ to 10³⁰ = 1 1/2

Feb 3, 1934 Jan. to 4 pm.

G. G. Section

Finishing - 7⁰⁰ to 10³⁰ = 3^{1/2}

1- Finisher

1- " Helper.

65x
Batch. Approximate Quantity of Surface water

Quantities	Carried by	Average	Aggregates	per
lbs	cutt.	Very Wet Sand	Per Cutt.	Gal. per
		Moderately Wet Sand	3/4 gal	Batch.
1250	7	Moist Sand	1/4 gal	1.7
105				
2570	14	Moist Gravel Crushed Rock	1/4 gal	3.6
165				5.3 gals. ^{more or} less.

$\% = \frac{5}{35} \times 100 = 14\%$

Water per Batch 3x436 cu. 3⁵ gals.

Total 40 gals.

Water Cement Ratio gallons per sack

$= \frac{40}{6} = 6.6$

Concrete Tests 2400 to 2800 avg. 2600 #

ok for Curve "A" water cement ratio.

Feb 4, 1934 Sunday ✓

24

Feb 5, 1934 7 am to 4 pm.

So. Side Wall Form. 7⁰⁰ to 10⁰⁰ = 3

1- General Foreman 7⁰⁰ ✓

1- Carpenter Foreman 7⁰⁰ ✓

1- Carpenter Helper 7⁰⁰ to 10⁰⁰ ✓

1- Laborer 7⁰⁰ to 10⁰⁰ ✓

Finishing 7⁰⁰ to 4 = 8 hrs.

1- Finisher

1- " Helper Stripping 8⁰⁰ to 10 = 2

Clean Up.

1- Laborer 10⁰⁰ to 4

1- Carpenter Helper 10⁰⁰ to 11³⁰

Stock Pile. 7⁰⁰ to 11³⁰ = 4 1/2 hrs.

1- Hoist Crane & Drag Line

1- #34 Truck

1- Crane Operator

1- " Oiler

1- Truck Driver

Feb 5, 1934 ✓ 7am to 4pm
 Corewall
 Drilling Grout Holes. 7⁰⁰ to 4 = 8 hrs.
 1- Compressor
 1- Water Locomotive
 1- Driller
 2- Helpers

Forms 10⁰⁰ to 4 = 5 hrs.
 1- General Foreman
 1- Carpenter Foreman
 1- Carpenter Helper 12⁰⁰ to 4 = 3 hrs.

Feb 5, 1934 ✓ 7am to 4pm
 Spillway Floor
 Placing Reinf Steel 10⁰⁰ to 11⁰⁰ = 1 hr.
 1- Steel Foreman
 1- " Man

Continue to
 Feb 6 Report.

Conc. Elev to 780

↓
 Location of Grout Holes.

Drill Hole
 Depth

25'-8"	#5	0	0+14W
	#4	0	0+09E
	#3	0	0+04W
25'-8"	#2	0	4175E = 0+00
26'-0"	#1	0	4169W

from Existing Bulkhead.

Feb 6, 1934 Jan to 4pm

Cement Wall Excavation

Clean Up 7⁰⁰ to 9⁰⁰ $14 \times 6 \times 25 = 2100$ Say 85
27

1- Nail Crane

1- Compressor

1- Nail Crane Operator

1- Oiler

1- Driller

2- Laborers

1- General Foreman

Forms 7⁰⁰ to 9⁰⁰

1- Carpenter Foreman

1- " Helper

1- Laborer

South Side Wall Concrete

Sta 5+36 to 5+61 Elev 750 to 755

Sta 5+61 to 5+86 Elev 742 to Grade

Sta 5+86 to 6+10 Elev 728 to 735

Sta 6+10 to 6+34 Elev 711 to 716

Feb 6 1934 Jan to 4pm

South Side Wall

Clean Up 9⁰⁰ to 11⁰⁰

1- Water Tank Truck

1- Laborer (Joe)

Mix 1:2:4 (e) 75x 4 Batches 28 cu yd.

" " 65x 20 Batches 120 cu yd

Start 12³⁰ Finish 4³⁰ Delays 148
= 4 hrs.

1- Mixing Plant

1- No 10 Crane & Truck

2- Blaw Knox Truck Mixers

1- Nail Crane

1- General Foreman

1- Mixerman

4- Men

Com Del. 2- Truck Drivers

One Conc. 2- Laborers

1- Carp Helper

1- Nail Crane Operator & Oiler

App Supply 1- No 10 Crane operator

1- Truck Driver

25x Extra 400 # Sand 1000 #
12 5x 1250 500 3/4
12 5x 1250 500
14 5x 2900 # 1000 #
10 14 5x 2900 # 1000 #
1000 # 5/4 46 10-00
2,65x 2,625 x 27 = 222 cu yd.
1000 # 5/4 46 10-00
2,65x 2,625 x 27 = 222 cu yd.

148

14

162

Feb 6, 1934 7am to 4pm

Corewall Concrete. 3 Batches ^{6"} Grout 18

Mix 1:2:5 65x 68 Batches Conc. ⁴⁰⁸/₅₂

Start 9:00 Finish 11:30 Delay
- 2 1/2

1- Mixing Plant.

1- No 10 Crane & Track

3- Blaw Knox Truck Mixers

1- General Foreman

1- Mixer man

4- Men.

App. Supp. 1- No 11 Crane Operator & 1 Track Driver.
Conc. Del. 3 Track Drivers

Placing Conc 1- Carpenter Foreman

1- " Helper.

1- Laborer

Removing Timbers

1- Laborer 11:00 to 11:30

Sta 4166 to 0+146 Elev 706 to 720
41754
(24.2 ft.)

Forms. 1- Carpenter Foreman 12:30 to 4 = 3 1/2

Copper 14 + 24 = 38'

Feb 6, 1934 7am to 4pm

Spillway Floor

Drilling Anchor Holes 10:00 to 10:30 = 1/2 = 1

11:00 to 11:30 = 1/2
Total 6 hrs.

1/2 Compressor

1- Jackhammer

1- Driller

6 from 6 x 89'

24 N to 65

Feb 7, 1934 Jan to 4 pm.

So. Side Wall.

Chipping Conc. 7⁰⁰ to 8⁰⁰

1- General Foreman

1- Laborer

Anchor Holes 1³⁰ to 4 = 2 1/2

1/2 Comp

1- Jackhammer

1- Driller

Spillway Flood

Drilling Anchor Holes. 1³⁰ to 4 = 2 1/2

1/2 Compressor

1- Jackhammer

1- Driller

So

2 1/2"
Hauling from Stock Pile at Washing Plant

(2) Mack Trucks

Feb 7, 1934 Jan to 4 pm.

Corewall Conc.

Chipping Concrete. 7⁰⁰ to 8⁰⁰

1- Carpenter Foreman

1- " Helper

1- Laborer

Erecting Str. Steel meets regarding
Elev 720 to 725
for Dep. of Str. Steel
4- Str. cds. 24'-0" set to curb

10-11-12-13

vertical 38 7/8" x 22'-0" corr.

Horizontal 58 13/16" x 18'-0" plain Start at
Elev 725
~~58~~ 18'-0"

Pressure Grouting see Book 381 ✓

Erecting Str. Steel 8⁰⁰ to.

1- General Foreman

1- Carp. Foreman

1- " Helper

2- Laborers to 9⁰⁰

Clean up.

1- Laborer 12⁰⁰ to.

2- Laborers 9⁰⁰ to.

1- Driller 9⁰⁰ to.

Feb 8, 1934 7am to 4pm.
Crewall ✓

Forms. 7⁰⁰ to 8⁰⁰ - 21

- 1- General Foreman
- 1- Carpenter Foreman
- 1- " Helper
- 2- Laborers.

✓
Test Sample
Crewall Conc

Sta 4160 to 0+14⁶ Elev 730⁰⁰

⊗ No ~~2082-83-84~~

2094-95-96

Feb 8, 1934 7am to 4pm
Crewall ✓

29

Mix 1:2:5 11² Batch Conc. 672 Sx
2 Batch Grout. 10 Sx

Start 8⁰⁰ Finish 11³⁰ Delays

- 1- Mixing Plant 3 1/2
- 1- No 10 Crane & Truck
- 3 Blaw Knox Truck Mixers

- 1- General Foreman
- 1- Mixer man & Apprentice
- 4- Men

Conc Del. 3 Truck Drivers

Mac Conc 2 Laborers
1- Carp Foreman
1- Carp Helper

App Supply 1- New Crane Operator
1- Truck Driver

Sta 4160 to 0+14⁶ Elev 720 to 740

Copper 90 + 30 = 30'

Feb 6, 1934 ✓ 7am to 4pm.

So. Side Wall

Anchor Holes 7⁰⁰ to 11³⁰ 7 1/2 reg & hrs

1/2 compressor 1⁰⁰ to 4

1- Jackhammer

1- Driller

Forms 12³⁰ to 4 = 3 1/2

1- General Foreman

1- Carpenter Foreman

1- " Helper

2- Laborers.

Feb 6, 1934 ✓ 7am to 4pm.

Spillway Floor

Anchor Holes 12³⁰ to 4 = 3 1/2

1/2 compressor

1- Jackhammer

1- Driller

No 1 ✓ Stock Pile Samples.

2097 ✓ Sand No for Moisture Content
& for Grading

2098 ✓ pea to 3/4" Rock for Grading New Supply

2099 ✓ pea to 3/4" Rock for Grading Old Supply

2100 ✓ 1 1/2" Rock for Grading New Supply

Feb 9, 1934 Jan to 4 pm

South Side Wall.

Forms 7⁰⁰ to 4

1- General Foreman

1- Carpenter Foreman

1- " Helper

1- Laborers 7²⁰ to 8⁰⁰ = 1

2- Laborers 8⁰⁰ to 4 = 7

Stripping 7⁰⁰ to 8⁰⁰ = 1

1- Finisher

1- " Helper ⊗

Finishing

1- Finisher 8⁰⁰ to 4 = 7

Drilling Anchor Holes 7⁰⁰ to 11⁰⁰ = 4

1/2 Compressor

1- Jackhammer

1- Driller

Feb 9, 1934 Jan to 4 pm

Corewall

Chipping Conc. 7⁰⁰ to 8⁰⁰ = 1

1- Laborer

Spillway Floor

Drilling Anchor Holes. 9⁰⁰ to 1³⁰ = 3 1/2

1/2 Compressor 2³⁰ to 4 = 1 1/2

1- Jackhammer 3⁰⁰ to 4 = 1

1- Driller

6 hrs

Mr. Brackman on Duty

Feb 10, 1934 7am to 4pm.

South Side Wall.

800.5x cleaned
13.1x recovered

75x Mix 1:2:3 (a) 8 Batches Conc. 8.24

65x Mix 1:2:4 (b) 19 Batches Conc. 18.8

Start 7^{30 AM} Finish 11³⁰ Delays

Equipment = 4 1/2 hrs.

1- Mixing Plant

1- Barber Greene 8' 1 Truck

2- Blaw Knox Truck Mixers

1- No. Crane

1- General Foreman

1- Mixerman

2 Men

Conc Del. 2 Truck Drivers

Placing Con. 2 Laborers

1- No. 11 Crane Operator

1 " " Oiler

Agg. Supply 1- Truck Driver 1.5 HRS.

Mr. Brackman on Duty

Feb 10, 1934 7am to 4pm.

South Side Wall Continued.

Sta 5436 to 5461 Elev 755 to 760

Sta 5486 to 6410 Elev 725 to 730

Sta 6410 to 6434 Elev 716 to 721

Finishing
1- CEMENT-FINISHER } 8 hrs

1- HELPER

Clean Up

1- CARPENTER

Spillday Floor

Placing Steel

1- STEEL-MAN - 6-HRS. IN FLOOR-STEEL.

Anchor Holes

1- MAN-DRILLING-ANCHOR-HOLES-8 HRS.

1/2 AIR-COMPRESSOR - 8 HRS

So. Side Wall 12³⁰ to 4 - 3 1/2 hrs.

Forms

1- General Foreman

1- Carp. "

1 " Helper

2- Laborers

Feb 11, 1934 Sunday.

Feb 12, 1934 7am to 4pm.

South Side Wall

Forms 7⁰⁰ to 11³⁰ = 4 1/2 hrs

- 1- General Foreman
- 1- Carpenter Foreman
- 1- " Helper.
- 2- Laborers.

Finishing 8⁰⁰ to

- 1- Finisher
- 1- " Helper.

Stripping 7⁰⁰ to 8⁰⁰ = 1 hr.

- 1- Finisher
- 1- " Helper.

Placing Reinf Steel

- 1- Steel Foreman 7⁰⁰ to 8⁰⁰ = 1 hr.
- 1- " Man.

Feb 12, 1934 7am to 4pm

Spillway Floor. 7⁰⁰ to 11³⁰ = 4 1/2

Drilling Anchor Holes.

- 1/2 Compressor 2 hrs. (Finished to
- 1- Jackhammer 7⁰⁰ to 8⁰⁰
- 1- Driller.

Placing Reinf Steel 9⁰⁰ to 3⁰⁰ = 4 1/2

- 1- Steel Foreman
- 1- " Man

Setting Forms. 12³⁰ to 4⁰⁰ = 3 1/2

- 1- General Foreman
- 1- Carpenter Foreman.
- 1- " Helper

Laying 4" Drain Lines 12³⁰ to

4- Laborers.

- Sta 6+90 to 7+00 = 10' 1st Line N 10' line at 2
- Sta 6+50 to 6+65 = 15' = 1st Line South of 10'

Feb 12, 1934 7am to 4pm
Grouting Anchor Holes 2-Batches 100x

Start 1⁰⁰ Finish 3³⁰ = 2 1/2

- 1- Blaw Knox Truck Mixer
- 1- Truck Driver
- 2- Laborers.

Feb. 13, 1934 South Side Wall
Placing Reinf Steel 700 to 11³⁰ = 4 1/2

- 1. Steel Foreman
- 1- Steel Man.

Finishing 700 to 8⁰⁰

- 1- Finisher
- 1- " Helper

Forms 7⁰⁰ to

- 1- Carpenter Foreman 7⁰⁰ to 11⁰⁰ = 4
- 1- " Helper 7⁰⁰ to 7³⁰ = 1/2

Laying 4th Drain Under Wall
1- General Foreman 7³⁰ A
2- Laborers

Feb 13, 1934 7am to 4pm

Spillway Floor

Clean Up 7⁰⁰ to 7⁰⁰ = 1/2 hr.

1 Compressor (X)

(85)

5 Laborers

13 1/2
7 3/4
5 3/4

Mix 1:2:4 65x 96 Batches Conc 576⁵⁴

Start 7³⁰ Finish 2¹⁵ Delays = 5 3/4 hrs.

Sta 6+50 from 265 to 975

to Sta 6+65 from 265 to 955

Sta 6+90 265 to 63N

to Sta 7+00 265 to 63N

Sta 6+88 from 63N to 80N

to Sta 7+00 from 63N to 80N

- 1- Mixing Plant
- 1- Barber Greene

3 Blaw Knox Truck Mixers + 1 Cat 60

1 General Foreman 1- Mixer man 4 Men

Conc Del. 3 Truck Drivers

Reconc 2 Laborers 1- Cat Operator

1- Carpenter Helper to 1³⁰ injured

Finishing 1- Finisher 8⁰⁰ to 4³⁰ = 7 1/2

1- Laborer

1- Carpenter Foreman 11⁰⁰ to 4³⁰ = 4 1/2

11⁰⁰ am H. W.
Wet remaining Subgrade before finishing pour.
12³⁰ am O.V.S.
Subgrade re wet before pour.

079 Supply
1- Truck Driver

Feb 13, 1934 7am to 4pm

South Side Wall.

112

Drilling Anchor Holes. 8⁰⁰ to 1³⁰ = 4 1/2

1/2 Compressor = 2 hrs.

1- Jackhammer

1- Driller.

Concrete.

Mix 1:2:3 75x (a) 8 Batches 56

1:2:4 65x (b) 8 Batches 48

104 cu

Start 9¹⁵ Finish 4³⁰ = 2 1/4 hrs.

1- Mixing Plant

1- Barber Greene

2- Claw Knox Truck Mixers

1- No 11 Crane

1- General Foreman. 1- Mixer man 4 men

Concrete 2- Truck Drivers

Placing Concrete 1- Crane Operator

1- Oiler

2- Laborers

Agg Supply + Truck Driver

Feb 13, 1934 7am to 4pm

South Side Wall Continued

Sta 5+36 to 5+61 Elev 760 to Finish Line

Sta 5+86 to 6+10 Elev 780 to Finish Line

Sta 6+10 to 6+34 Elev 721 to 726

Spitway Floor

Anchor Holes. 1⁰⁰ to 4 = 3

1/2 compressor = 2 hrs.

1- Jackhammer

1- Driller

Feb 14, 1934 7am to 4pm

South Side Wall.

Forms. 7⁰⁰ to

1- Carpenter Foreman } 8 hrs.

1- General Foreman }

1- Laborer 8 hrs.

1- Laborer 4 hrs.

Laying Tile Under Wall 7⁰⁰ to

1- Laborer 8⁰⁰ to 9⁰⁰ = 1

1- Laborer. 7⁰⁰ to 9⁰⁰ = 2

3 hrs.

Sta 6+34 to

Finishing 2⁰⁰ to 4 = 2 hrs.

1- Finisher

1- Laborer

Feb 14, 1934 7am to 4pm

Spillway Floor 7⁰⁰ to 2⁰⁰ = 6 hrs.

Finishing *

1- Laborer. Chipping 7⁰⁰ to 8⁰⁰ = 1 hr.

1- Finisher 6 hrs.

1- Laborer. 5 hrs.

Haul Process

1- Laborer 1 hr.

Stock Pile

12 to 14 5 yd loads of 1 1/2' rock

dumped on pea gravel Stock Pile.

(60 to 75 cu yds)

Dr. 8 5 x cement.

Feb 15, 1934 Jan to 4pm.

South Side Wall.

Forms 7⁰⁰ to 11⁰⁰ 13⁰⁰ to 4 = 6^{1/2}

1- Carpenter Foreman.

1- General Foreman } 13⁰⁰ to 4. 2^{1/2}

1- Laborer }

1- Laborer 3⁰⁰ to 4 = ~~4~~

Finishing 7⁰⁰ to 9⁰⁰ 2⁰⁰ to

1- Finisher

1- Laborer.

Drilling Anchor Holes. 11⁰⁰ to 4 = 4

1/2 Compressor

1- Jackhammer

1- Driller

Chipping Conc 3⁰⁰ to 4⁰⁰

1- Laborer 1/2 hr.

Feb 15, 1934 Jan to 4pm

Spillway Floor.

Clean Up 7⁰⁰ to 8.

1- General Foreman.

1- Laborer.

1- Laborer 7³⁰ to.

Laying 4" Plain tile 15' Sta 6+65 to 6+80

1- Laborer. 7⁰⁰ to 7³⁰

Forms.

1- Carpenter Foreman ⊗

Drilling Anchor Holes. 1⁰⁰ to 4 = 3

1- Compressor

1- Jackhammer

1- Driller

Test Samples.

Sta 6+65 from 30S to 40S

to Sta 6+80 from 30S to 40S.

Nos - 2113-14-15

Spillway Floor ✓

Feb 15, 1934 7am to 4pm.

Mix 1:2:4 65x 36 Batches 2165x

Start 8:00 Finish 11:00
 Delay Mr. Clearing Floor & waiting for Cat. 400.

1- Mixing Plant.

1- Barber Greene & Truck Finisher

2- Blaw Knox Truck Mixers 45x Cement.

1- Cat 60

1- General Foreman

1- Mixerman

4- Men.

Conc. Del. 2- Truck Drivers

Placing Conc. 2- Laborers.

1- Cat. 60 Operator.

Finishing 1- Finisher 9:00 to 2:00

1- Laborer.

Hand Process. 1- Laborer 1:30 to 3:30

Sta 6+65 from 265 to 955

to Sta 6+80 from 265 to 955

Feb 15, 1934 ✓

7am to 4pm.

South Side Wall.

Mix 1:2:3 75x 4 Batches 285x

Mix 1:2:4 65x 8 Batches 485x

Start 11:00 Finish 1:30¹⁵ Delays 76

1- Mixing Plant. 2 1/2

1- Barber Greene & Truck

2- Blaw Knox Truck Mixers 11:00 to 11:30

1- Blaw Knox Truck Mixer 12:30 to

1- No 11 Crane ⊕

1- General Foreman

1- Mixerman

4- Men

Conc Del. 2 Truck Drivers 11 to 11:30

1- " " 12:30 to 1:30

Placing Conc. Laborers.

1- Carpenter Foreman 11:00 to 1:30

Crane Operator ⊕

1- Oiler ⊕

Sta 6+34 to 6+58 Subgrade to Elev. 709

6+10 to 6+34, 726 to 734

✓
Feb 16, 1934 Train to 4 pm.
South Side Wall.
Form 7⁰⁰ to 4 - 8 hrs.
1- General Foreman
1- Carpenter Foreman 7⁰⁰ to 11³⁰ = 4½
+ ½ hr.
1- Laborers 8 hrs. 0 in Hyd. fill 2 ½ hrs.
1- Laborer 7½ hrs.

Drilling Anchor Holes 7⁰⁰ to 9³⁰ - 2½ hrs.
½ comp.
1- Jackhammer
1- Driller

Finishing 7⁰⁰ to 4 - 8 hrs.
1- Finisher
1 laborer.

Laying 4" Drain Tile

1- Laborer ½ hr.

Sta 6+58 to 6+82 - 24'

✓
Feb. 16, 1934 Train to 4 pm.
Spillway Floor. Anchor Numbers
7+16 - 20 - 24 - 28 - 32 - 35 -
7+39

Drilling Anchor Holes 12³⁰ to 4 = 3½ hrs.
½ Compressor - 2 hrs.
1- Jackhammer
1- Driller

Feb 18, 1934 7am to 4pm
South Side Wall.

Vert. $\frac{5}{8}$ " Reinforcing Steel to Star 6+82 ±

2-31'-0" 1-29'-3" 3-27'-8" 4-26'-4" 3-25'-5"

2-30'-6" 3-29'-0" 2-27'-5" 3-26'-0" 3-25'-2"

3-30'-0" 3-28'-6" 3-27'-0" 3-25'-10"

3-29'-8" 3-28'-0" 3-26'-8" 3-25'-8"

Drilling Anchor Holes. 7⁰⁰ to 8⁰⁰ = 1 hr.

$\frac{1}{2}$ Compressor

1- Jackhammer

1- Driller

Ferms. 7⁰⁰ to 11⁰⁰

1- General Foreman

1- Carpenter Foreman

2- Laborers.

Finishing.

1- Finisher 7⁰⁰ to 4

1- " Helper

Feb 17, 1934 7am to 4pm
Brackmann ⁴⁰ 12³⁰ to ⁴⁰ 4⁰⁰

Spillway Floor

Placing Reinf Steel

1- Steel Foreman 9⁰⁰ to 4 = 6 hrs.

1- " Man

Clean Up

3- Laborers 11⁰⁰ to 11³⁰

2- " 12³⁰ to 4

Ferms. 1- General Foreman ~~12³⁰~~ ^{12³⁰} to 4⁰⁰

1- Carpenter Foreman

Drilling Anchor Holes. 12³⁰ to 4

1- Compressor

3- Jackhammers

3- Drillers

Feb 19, 1934 7am to 4pm.

Feb 18, 1934 ✓ Sunday.

South Side Wall

Forms

1- Carpenter Foreman 7⁰⁰ to 7³⁰
11⁰⁰ to 4⁰⁰

1- General Foreman. Finishing 7⁰⁰ to
11³⁰

Clean up.

1- Finisher
1- Laborer

2- Laborers. 7⁰⁰ to 7³⁰ = 1/2 hr

Mix 75x 1:2:3 8 Batches 565x

" 65x 1:2:4 16 Batches 9.65x
24

Start 7³⁰ Finish 11⁰⁰ Delays

1- Mixing Plant.

1- Barber Greene.

2- Blaw Knox Truck Mixers

1- Noli Crane

1- General Foreman.

1- Mixerman

3- Men

Conc Del 2- Truck Drivers

Placing Conc. 2 Laborers. (1/2 hr)

1- Carpenter Foreman 9³⁰ to 11⁰⁰

1- Crane Operator & Oiler

Sta. 6+10 to 6+34 Elev. 726 to Finish Line

Sta 6+34 to 6+58 Elev 704 to 710

Sta 6+58 to 6+72 Subgrade to 696

Placing Point Steel 10⁰⁰ to 11³⁰ = 1 1/2 hr
1- Steel Foreman
1- Man.

Feb 19, 1934 7am to 4pm

Spillway Floor

1- Carpenter Foreman 7³⁰ to 8⁰⁰

1- 65x Batch

Granting Anchor Holes 1- 55x Batches

115x

1- Blaw Knox Truck Mixer

1- Truck Driver

2- Laborers. 1/2 hr from So. Side dot

Start 8⁰⁰ Finish 9³⁰ = 1 1/2 hr

" 3⁰⁰ " 4 = 1 1/2 hr

1- Carpenter Foreman 8⁰⁰ to 9³⁰ = 1 1/2

3- Laborers 3⁰⁰ to 4 = 1

Placing Point Steel 7⁰⁰ to 10³⁰ = 3 1/2

1- Steel Foreman

1- " Man.

39- 5/8" Ø - 14'6" to provide dowels at Sta 7+40.

10- 1/8" Ø - 7'0"

Laying 4" Tile Drains 1st. Line S of L

& Line parallel to Cutoff at 7+20

Sta 6+80 to 7+00

58
24
34

Feb 19, 1934 ✓
7am to 4pm

Spillway Floor

Mix 65x 1:2:8 34 Batches 204

Start 11:00 Finish 3:00
3 hrs Delays

1 - Mixing Plant

1 - Barber Greene

2 - Blaw Knox Truck Mixers

1 - Cat 60.

1 - General Foreman

1 - Mixerman

3 - Men

Conc Del. 2 - Truck Drivers

Placing Conc. - Cat Operator

2 - Laborers

Furnishing 1 - Finisher 12:30 to 4

1 - Laborer

Sta 6+80 from 26.5 to 95.5.

to Sta 7+00 from 26.5 to 94.5.

Laying 7" Drain Tile
1 - General Foreman

Sta 7+00 to 7+40
8 Line 1/2" cutoff

1st layer
1/2"

47

Feb 20, 1934 ✓
Tuesday

Spillway Floor & Sidewalls

No Work account of rain all day

Feb 21, 1934 ✓
Wednesday

Spillway Floor. 7am to 4pm

Draining Cutoff Trench 7:00 to 10:30

1 - Compressor 12:30 to

1 - Air Pump

1 - General Foreman

1 - Mechanic

Force Aect #27

Up Stream Face of Dam 7:00 to 8:30

1 - Compressor

2 - Jackhammers

2 - Drifters

For
Brockmann

✓ Thursday
Feb. 22, 1934 7am to 4pm.
No Work Acct of Rain

✓ Friday
Feb 23, 1934
No Work Acct of Rain

✓ Saturday
Feb 24, 1934
No Work Acct of Rain

✓ Sunday
Feb 25, 1934

25 day

Feb 16 = 12

to 28 = 16

Mad

Strength of 7 day Test Cylinders
Test 1850 #

Strength at 28 days =

$$1850 + 30 \times \sqrt{1850} =$$

$$1850 + 1290 = 3140 \quad \text{2 tool steel}$$

43
Feb. 26, 1934 7am to 4 pm.

Spillway Floor.

Clean Up To Brachmann

1- Compressor

1- Air Pump

11- Muckers

1- Foreman

South Anchors finished
to \$

✓ Laying Tile Drain 7⁰⁰ to 10⁰⁰

2- Laborers.

Stn 7+00 to 7+13 1st Line Soft = 13

Stn 7+08 Line 11 to Cutoff = 42

Forms 7⁰⁰ to 9³⁰ = 2 1/2

1- Carpenter Foreman

1- General Foreman

2⁰⁰ to 4⁰⁰ = 2 hrs.

✓ Clean Up

3- Laborers 10⁰⁰ to 10³⁰

✓ Hauling Rein Steel 11⁰⁰ to 4⁰⁰
= 4 hrs.

1- Steel Foreman

2- Steel Men

Drilling Anchor Bolts

1/2 Compressor

1- Jackhammer

1- Driller

13
72
85
25

92

72

Feb. 26, 1934 7am to 4pm

So Side Wall

Finishing 7⁰⁰ to 2⁰⁰

1 - Finisher

1 - " Helper

Forms. 9³⁰ to

1 - Carpenter Foreman 9³⁰ to 4⁰⁰

1 - General Foreman 9³⁰ to 2⁰⁰

3 - Laborers. 10³⁰ to 11³⁰

2 - Laborers 12³⁰ to 2⁰⁰

✓ Clean Up

3 - Laborers. 10⁰⁰ to 11³⁰ = 1 1/2

1 - Laborer 12³⁰ to 4⁰⁰

Mixing Plant

Clean Up. 8⁰⁰ to 2⁰⁰ = 5 hrs.

1 - Mixer man

3 - Laborers.

✓ 1 - Compressor & Air Pump 9⁰⁰ to 12³⁰

4 - Laborers.

65 ✓ 44
59

Feb. 26, 1934 7am to 4pm

Spillway Floor.

Mix 1:2:4

2:2

Start

Finish 6³⁰
= 4 1/2

1 - Mixing Plant.

1 - Barber Greene & Truck

3 - Blaw Knox Truck Mixers

1 - Cat. 60.

1 - General Foreman

1 - Mixer man

3 - Men.

Case Del. 3 - Truck Drivers 12⁰⁰ to 2⁰⁰ to

Placing 1 - Cat. 60 Operator

4 Laborers.

bag Supply 1 - Truck Driver

Finishing 1 - Finisher 1 - Laborer. 2⁰⁰ to 6³⁰ = 4 1/2
Plus.

Sta 7+00 from 20'S to 94'S

to Sta 7+13 from 20'S to 98'S.

✓ Feb. 26, 1934 7am to 4pm

North Side Wall

Drilling Anchor Holes. 12³⁰ to 2⁰⁰ = 1 1/2 hr.

1/2 compressor

1- Jackhammer

1- Driller

Test Samples Spillway Floor

Nos. 2180-81-82

65x 1 1/2" Mix.

1400# Sand

1340 1 1/2" 33 gallons

670# 1/4 to 3/4 additional water.

210# pea wet sand.

3620#

✓ Feb 27, 1934 7am to 4pm

Spillway Floor.

Hunt Process 7⁰⁰ to 9⁰⁰

1/2 Compressor

1- Laborer.

Clean Up 7⁰⁰ to 10⁰⁰

3- Laborers

1- Laborer 10⁰⁰ to 11⁰⁰

Laying Rein. Steel 9⁰⁰ to 10⁰⁰

1- Steel Foreman

1- " Man

Laying Drain Tile Sta 7+13 to 7+26 = 13' 1 line South

2- Laborers 9⁰⁰ to 10⁰⁰

Forms 9⁰⁰ to 11³⁰ = 2 1/2 hr

1- Carpenter Foreman

1- General Foreman 9⁰⁰ to 10⁰⁰

1- Laborer 9⁰⁰ to 10⁰⁰

Feb. 27, 1934 7am to 4pm. ✓

South Side Wall

Forms 7⁰⁰ to 9⁰⁰

1- General Foreman 2

1- Carpenter Foreman 12³⁰ to 4 = 3 1/2 + 2 = 5 1/2

2- Laborers 2

Finishing 7⁰⁰ to 1³⁰ = 5 1/2

1- Finisher

1- Laborer (X)

Feb 27, 1934 7am to 4pm ✓

South Side Wall.

2:35

Mix 1- 85x Batch Grout. 31000 &

1:2:4 20. Batch Concrete. 120

Start 10⁰⁰ Finish 1³⁰ Delay.

= 2 1/2

1- Mixing Plant

1- Barber Greene & 1 Truck

2- Blaw-Knox Truck Mixers

1- No 11 Crane

1- General Foreman

1- Mixer man

3- Men.

Conc Del. 2- Truck Drivers

Placing Conc. 3- Laborers
1- Crane Operator

Agg Supply 1- Truck Driver

Sta 6+34 to 6+58 Elev 710 to 716

Sta 6+58 to 6+78 Elev 696 to 702

1/2

Feb 27, 1934

Spillway Floor.

Mix 1:2:4 34⁶ Batches Conc. 204^{5x}

Start 1³⁰ - Finish 4⁰⁰ = 2 1/2

1- Mixing Plant.

1- Barber Greene & 1 Truck

3- Blaw Knox Truck Mixers

1- Cat. 60

1- General Foreman.

1- Mixerman

3- Men.

Conc Del. 3- Truck Drivers.

Placing Conc 3- Laborers.

1- Cat Operator.

Agg Supply 1- Truck Driver

Finishing 1- Finisher

Sta 7+13 from 20'S to 92S
to Sta 7+26 from 20'S to 90S.

204
302
302

Feb 28, 1934 7am to 4pm

Spillway Floor.

Sheet Process

1- Laborer. 7⁰⁰ to 8⁰⁰ = 1 hr.

Drilling Anchor Holes 8⁰⁰ to 11⁰⁰ = 3 hrs.

1/2 Compressor

1- Jackhammer

1- Driller

Laying Roof Steel 8⁰⁰ to 11³⁰ = 3 1/2 hrs.

1- Steel Foreman

1- " Man.

Cleanup 1- Laborer 10⁰⁰ to 11 = 1 hr.

Laying 4" Drain Tile

1- Laborer. 9⁰⁰ to 11⁰⁰ = 2 hrs.

Sta 7+00 to 7+13 = 13' Line @ 1/2" 13
Sta 7+26 to 7+40 = 14' 1st line 50' 14
Sta 7+08 // to Cutoff from 20'S to 15'N = 35' 62

Laying 6" Drain Tile.

Sta 5+80 to 6+25 = 45'

Feb 26, 1934 Dawn to 4pm

South Side wall.

Laying Drain tile 7⁰⁰ to 9⁰⁰

1/2 Laborers } 7⁰⁰ to 8⁰⁰ = 1 hr.
1 Carpenter Foreman

1 Laborer 7⁰⁰ to 9⁰⁰ = 2 hrs.

Clean up 1 Laborer 8⁰⁰ to 10⁰⁰ = 2 hrs

Forms.

1 General Foreman 7⁰⁰ to 1⁰⁰

1 Carpenter Foreman 8⁰⁰ to 11⁰⁰ = 3 hrs
6⁰⁰

1 Laborer 8⁰⁰ to 11⁰⁰

Finishing 7⁰⁰ to 1⁰⁰ 2 5x Cement

1 Finisher

1 Laborer

Feb 26, 1934 Dawn to 4pm

Spillway Floor

Grouting Anchor Holes Start 11⁰⁰ Finish 11³⁰

1 Blaw Knox Truck Mixer

1 Truck Driver

1 Mixerman

1-55x Batch

2 Laborers

Clean up 12³⁰ to 1 = 1/2 hr.

3 Laborers.

Feb 28, 1934 ✓
7 am to 4 pm

North Side Wall

Placing Reinf Steel 12³⁰ to 4⁰⁰ = 3 1/2 hrs.

- 1- Steel Foreman
- 1- " Man

Vertical

- 25- 5/8 x 25'-8"
- 3 26'-2"
- 3 27'-2"
- 3 27'-8"
- 3 28'-2"

Feb 28, 1934 ✓
7 am to 4 pm

Spillway Floor

Mix 1:2:4 86 Batched Conc. 51 65x

Start 10⁰⁰ Finish 6⁰⁰ Delays = 5 hrs.

- 1- Mixing Plant
- 1- Barber Greene
- 2 Claw Hook Truck Mixers 1⁰⁰ to 2⁰⁰ = 1 hr
- 3- " " " " 2⁰⁰ to 6⁰⁰ = 4 hrs
- 1- Cat. 60

- 1- General Foreman
- 1- Mixerman
- 3- Men to 3⁰⁰ = 2
- 4- " 3⁰⁰ to 6⁰⁰ = 3

Conc. Del. & Truck Drivers: 1⁰⁰ to 2⁰⁰ = 1 hr
 3- " " 2⁰⁰ to 6⁰⁰ = 4 hrs.
 Placing Conc 3 Laborers.

1- Cat. Operator

App. Supply 1- Track Driver

Finishing 1- Finisher
 1- Laborer.

(a) Sta 5480 from Base line of So. Wall to 7'N
 to Sta 6425 from Base line of So wall to 7'N.

(b) Sta 7400 from 20'S to 15'N including Cat. at Sta 7410
 to Sta 7413 from 20'S to 15'N

(c) Sta 7426 to 7440 from 20'S to 89'S.

March 1, 1934 7am to 4pm
Spillway Floor.

Clean up Hunt Process

1- Laborer. 7⁰⁰ to 9³⁰ = 2 1/2 hr

Finishing 7⁰⁰ to 8⁰⁰ = 1 hr.

1- Finisher

1- Laborer.

Forms. 7⁰⁰ to 8⁰⁰ = 1 hr.

1- General Foreman

1- Carpenter Foreman

1- Laborer 9³⁰ to 10³⁰ = 1 hr.

Laying 4" Drain Sta ⁴⁰ 7+13 to ³⁰ 7+40 = 27' at d

1- Laborer. 7⁰⁰ to 8⁰⁰ = 1 hr.

Drilling Anchor Holes 7⁰⁰ to 9³⁰ = 2 1/2

1/2 Compressor 12³⁰ to 1³⁰ = 1 1/2

1- Jackhammer

1- Driller

March 1, 1934 7am to 4pm ✓

50

South Side Wall

Forms. 8⁰⁰ to 9³⁰ = 1 1/2

1- Carpenter Foreman

1- General Foreman 7³⁰ to 4⁰⁰ = 1 1/2 hr.
3 hr.

1- Laborer

1- Laborer 9³⁰ to

Finishing 8⁰⁰ to 10³⁰ 10 sec cement

1- Finisher = 2 1/2

1- Laborer

March 1, 1934 7am to 4pm.

Spillway 1st floor 9³⁰ to 11³⁰ = 2hr.

Placing Roof Steel

1- Carpenter Foreman

2- Laborers

1- General Foreman } 9³⁰ to 10³⁰ = 1hr.

1- Steel Foreman 1 Steel Man 1⁰⁰ to 4 = 3 hrs.

Grouting Anchor Holes 1 Batches

Start 12³⁰ Finish 2⁰⁰ = 1 1/2 hr.

1- Blaw Knox Truck Mixer

1- Truck Driver

3- Laborers

1- Finisher

Laying 4" Tile

1- General Foreman

1- Carpenter " } 2⁰⁰ to 2³⁰

3- Laborers

1- Finisher

Sta 7+08 1/2 to Cutoff from 15' N to 52' N 3'

Sta 7+00 to 7+13 1st Line N of E

13
50
27
177

March 6, 1934 7am to 4pm.

Spillway Floor

Mix 1:2:4 73 Batches 43857

Start 10³⁰ Finish 11³⁰ = 1hr.

1- Mixing Plant 5⁰⁰ 2 1/2
2 30 3 1/2

1- Barber Greene

2- Blaw Knox Truck Mixers

3- " " " 2³⁰ to 5⁰⁰

1- Cot. 60.

1- General Foreman

1- Mixer man

4 Men

Conc. Del. 2- Truck Drivers 2³⁰ to 5⁰⁰

3- " " "

Placing Conc. 2- Laborer

Agg Supply 1- Truck Driver

Finishing 1- Finisher

1- Carpenter Foreman 4⁰⁰ to

1- Laborer

Sta 7+13 to 7+40 from 20' S to 15' N

Sta 7+00 to 7+13 from 15' N to 52' N

50
5

March 2, 1934 7am to 4pm

Spillway Floor

Hunt Process. 7⁰⁰ to 8⁰⁰

1- Laborer

Clean Up

1- Laborer 7⁰⁰ to 7³⁰

Forms

7⁰⁰ to 8⁰⁰

1- General Foreman 12³⁰ to 2⁰⁰

1- Carpenter Foreman 7⁰⁰ to 10⁰⁰
12³⁰ to 2⁰⁰

Drilling Anchor Holes 7⁰⁰ to 10⁰⁰

1/2 compressor

1- Jackhammer

1- Driller

Placing Reinf Steel 7⁰⁰ to 3⁰⁰

1- Steel Foreman

1- Man

1- Carp Foreman

March 2, 1934 7am to 4pm

Laying 4" Drain Pipe

1- Laborer 7³⁰ to 8⁰⁰

Sta 7+13 to 7+26 = 13'

Sta 7+08 # to C. Wall 50' N to N. Wall 40'

1- Finisher } 7⁰⁰ to 8⁰⁰

1- Laborer }

Grouting Anchor Holes

1- 55x Batch

Start 12³⁰ Finish 2⁰⁰

1- Blaw Knox Truck Mixer

1- Truck Driver

2- Laborers

1- Finisher

Hunt Clean Up

1- Mixerman 4 men

Hunt Process 12³⁰ to 2⁰⁰

1- Laborer

✓
March 2, 1934 7am to 4pm.

Spillway Floor.

Mix 1:2:4 90 Batches Conc. 540

Start 8⁰⁰ Finish 11³⁰ 3^{1/2} Delays.

2⁰⁰
1- Mixing Plant 4 = 2^{1/2} 650⁰⁰ Cleaned.

1- Barber Greene 5⁵⁰ Reclaimed

2 Truck Mixers 8⁰⁰ to 9⁰⁰ 35x Rain Ruined

3 " " 9⁰⁰ to

1- Cot. Co.

1- General Foreman

1- Mixerman

4 Men

Conc. Del. 2 Truck Drivers 8⁰⁰ to 9⁰⁰

3 " " 9⁰⁰ to

Placing Car 4 Laborers

1- Cot. Operator

Finishing 1- Finisher

1- Carpenter Foreman 3⁰⁰ to

1- Laborer

App. Supply 1- Truck Driver

Sta. 7400 to 7426 52' N to 92' N incl Cut-off

Sta. 7413 to 7440 15' N to 52' N

54
16
70
53
69
153 left
March 2, 1934 7am to 4pm.

So. Side Wall.

Forms.

1- Carpenter Foreman 10⁰⁰ to 3⁰⁰
= 2 1/2

✓
March 2, 1934 Rain to 4 pm.

Corewall to Brachmann

Excavation

- 1- Foreman 9⁰⁰ to.
- 1- Compressor
- 2- Jackhammers

✓
March 3, 1934

Corewall to Brachmann

Clean Up 7⁰⁰ to

2- Laborers

✓
March 3, 1934, Rain to 4 pm.

Spillway Floor.

Forms. 7⁰⁰ to.

- 1- General Foreman 7⁰⁰ to 9⁰⁰ = 2 hrs.
- 1- Carpenter Foreman 7⁰⁰ to 8⁰⁰ = 1 hr.

Clean Up. 7⁰⁰ to 7³⁰ = $\frac{1}{2}$

2- Laborers.

- 1- Finisher 7³⁰ to
- 1- Laborer 7³⁰ to

Finishing 7⁰⁰ to 7³⁰ = $\frac{1}{2}$

1- Finisher

Paint Process 7⁰⁰ to 7³⁰ - 12⁰⁰ to 1⁰⁰ = 1 hr.

- 1- Laborer $\frac{1}{2}$
- 1- Compressor $\frac{1}{2}$

1- 55x Batch.

Grouting Anchor Holes. 7³⁰ to 8⁰⁰ = $\frac{1}{2}$ hr.

- 1- Blain Knox Truck Mixer
- 1- Truck Driver
- 3- Laborers
- 1- Finisher

✓
Mar 3, 1934 7am to 4pm

So. Side wall

Clean Up

1- Laborer 8⁰⁰ to 9⁰⁰

Forms

1- Carpenter Foreman 8⁰⁰ to 11³⁰ = 3½

3- Laborers } 8³⁰ to 9⁰⁰ = ½

1- Finisher } ✓ ✓

1- General Foreman, Ⓚ

Finishing 12³⁰ to 4 - 3½

1- Finisher

1- Laborer

✓
North Side Wall

Grouting Anchor Holes 8⁰⁰ to 8³⁰ = ½ hr.

1- Blaw Knox Truck Mixer

1- Truck Driver

3- Laborers

1- Finisher

Steel see Feb. 28th

✓
Mar. 3, 1934 7am to 4pm.
Spillway Floor.
Mix 1:2:4 22 Patchas Conc. ^{13²}
Start 9⁰⁰ Finish 11⁰⁰ Delays
= 2 hrs.
1- Mixing Plant.
1- Barber Greene.
2- Blaw Knox Truck Mixers
1- Cat. 60

1- General Foreman
1- Mixerman
3 Men

Conc Del. 2- Truck Drivers

Placing Conc. 2 Laborers.

Agg Supply 1- Truck Driver.

Finishing 1- Finisher }
1- laborer. } 9⁰⁰ to 11³⁰

Sta 7+26 to 7+40 from 52'N to 86'N

Stock Pile Clean up 8⁰⁰ to 11³⁰
12⁰⁰ to 2⁰⁰
1- Cat & No Millar
1- Cat Operator.

✓
Mar 3, 1934 7am to 4pm
Spillway Floor 11⁰⁰ to
Clean up.
1- General Foreman
1- Cat. Operator
1- Bulldozer
2- Laborers
1- Carpenter Foreman 12³⁰ to
to Mr. Albert.

✓
Mar 4, Sunday

Mar 5, 1934 7am to 4pm

So. Side Wall 7⁰⁰ to 11³⁰

Forms.

1- General Foreman = 4¹/₂

1- Carpenter Foreman

1- " Helper } 7⁰⁰ to 4 = 8

3- Laborers 7⁰⁰ to 11³⁰ = 9¹/₂

1- Finisher } 7⁰⁰ to 4 = 8

1- Laborer.

57

✓
Mar 5, 1934 7am to 4pm

So. Side Wall

75x Mix 1:2:3 (a) $\frac{28}{12}$ Batches. $\frac{5x}{8.4}$

65x Mix 1:2:4 (b) 16 Batches. $\frac{9.6}{18.05x}$

Start 12³⁰ Finish 4⁰⁰ Delays.

1- Mixing Plant.

1- Barber Greene 8' Track

2- Blue Kmix Track Mixers

1- No 11 Crane

1- Cat. 60.

1- General Foreman

1- Mixerman

Men.

Conc. Delivery 2 Track Drivers

Pacing Conc. 1- Crane Operator

1- Oiler

1- Cat. Operator.

2- Laborers.

Sta 6+34 to 6+58 Elev 716 to 721

6+58 to 6+78 Elev 702 to 707

6+78 to 7+02 Subgrade to Elev 690

✓
Mar. 6, 1934 7am to 4pm

So. Side Wall. 7⁰⁰ to

Forms.

- 1- General Foreman
- 1- Carpenter Foreman } 7⁰⁰ to
- 1- Finisher
- 3- Laborers. 8⁰⁰ to

Chipping Core.

- 3- Laborers. 7⁰⁰ to 8⁰⁰ = 1 hr.

see about 7 day test for

2180- 81- 82

Gauge Elevation Puddle Core water.

695 - 4 $\frac{1}{2}$ - 690.5

✓
Mar 7, 1934 7am to 4pm

So. Sidewa"

Forms.

- 1- General Foreman 7⁰⁰ to 7³⁰ 12³⁰ to 4⁰⁰ $\frac{1}{2}$
- 1- Carpenter Foreman } 8
- 1- " Helper
- 1- Finisher 7⁰⁰ to 11³⁰ = 4 $\frac{1}{2}$
- 3- Laborers. 7⁰⁰ to 7³⁰ = 1 $\frac{1}{2}$
- ~~1- Laborer. 7³⁰ to~~
- 2- Laborers 12³⁰ to 4 = 5 $\frac{1}{2}$

Finishing 12³⁰ to 4 = 3 $\frac{1}{2}$

- 1- Finisher
- 1- Laborer

Cleanup 12³⁰ to 4 = 3 $\frac{1}{2}$

- 1- Compressor
- 1- Air pump
- 1- Laborer.

✓
Mar 7, 1934 7am to 4pm

So. Sidewalk

Mix 1:2:4 75x (a) 12 Batches 84.50

" 1:2:4 65x (b) 16 Batches 96.50

Start 7⁰⁰ Finish 11³⁰ Delays 180.50

1- Mixing Plant

1- Barber Greene & 1 Truck &

2- Blue Knox Truck Mixers

1- No 11 Crane 7³⁰ to 10⁰⁰

1- Cat. 60

1- General Foreman

1- Mixer man

2 Laborers

Conc Del. 2- Truck Drivers

Placing Conc 1- No 11 Crane Operator 7³⁰ to 10⁰⁰
1- Cat. Operator
3 Laborers

App. Supply 1- Truck Driver &

Sta 6+34 to 6+58 Elev 721 to Finish line

Sta 6+58 to 6+78 Elev 707 to Finish line

Sta 6+78 to 7+02 Elev 690 to 695

Sta 7+02 to 7+26 E. Subgrade to 680

1750 Cleared
20 Reclaimed

✓
Mar 8, 1934 7am to 4pm

So. Sidewalk

Finishing

1- Finisher 8hrs.

1- Laborer 7⁰⁰ to 11³⁰ = 4½ + 1 = 5½

Forms

1- General Foreman 7⁰⁰ to 11³⁰ = 4½ + 1 = 5½

1- Carpenter Foreman } 8hrs.

1 " Helper

2 Laborers 7⁰⁰ to 11³⁰ = 4½ + 1 = 5½

Clean up

1- Compressor } 4½

1- Air Pump.

1- Laborer

Mar 8, 1934 Rain to 4 pm

So. Sidewall

Mix 1 7:4 75x0 12²⁰ Batches 84

1 7:4 65x0 8 Batches 48

Start 100 Finish 3:30 Delays 132 5x

1 - Mixing Plant 3 1/2

Barber Greene

2 - Blaw Knex Truck Mixers 3 1/2

1 - Cat 60 2 1/2

1 - No. 11 Crane (1 hr.)

1 - General Foreman 2 1/2

1 - Mixerman } 3 1/2 hrs

3 Men

Conc. Box 9 - Truck Drivers 3 1/2

Placing Conc. 1 - No. 11 Crane Operator (1 hr.)

1 - Cat. Operator 2 1/2

3 Laborers 2 1/2

999 Supply (C) Sta 6+78 to 7+02 Elev 695 to 700

Sta 7+02 to 7+26 Elev 680 to 685

Sta 7+26 to 7+38 Subgrade to 674

C. L. 10?
we 5%
of volume
of concrete
65x 100

March 9, 1934 Rain to 4 pm

So. Sidewall

Form

1 - General Foreman 5 hrs.

1 - Carpenter Foreman } 8 hrs.
1 - Helper

3 - Laborers 7:00 to 11:30 = 4 1/2 hrs.

2 - " 12:30 to 1 = 1/2 hr.

Finishing

1 - Finisher 8 hrs.

1 - Laborer 5 hrs.

✓
Mar 9, 1934 7am to 4pm

Mix 1:2:4 75 x (a) 8 Batches 56
" 65 x (b) 9 8 Batches $\frac{54}{11084}$

Start 100 Finish 400 $\frac{17}{76}$ Delays = 3 hrs.

- 1- Mixing Plant
- 1- Barber Greene & 1 Truck
- 2- Blaw Knox Track Mixers
- 1- Cat 60
- 1- Nail Crane 300 to 400 1 hr.
- 1- General Foreman

1- Mixer man

3 Men

Con. Del. Truck Drivers
1- Crane Operator 300 to 400 = 1 hr.

Placing Con. 1- Cat Operator

3- Laborers

Sta 6+78 to 7+02 Elev 700 to Finish line

Sta 7+02 to 7+26 Elev 685 to 690

Sta 7+26 to 7+38 Elev 674 to 680

✓
Mar 10, 1934 7am to 4pm

S. Sidewall

Forms 700 to

1- General Foreman $\frac{700}{700}$ to 100
1- Carpenter Foreman $\frac{700}{700}$ to 100 = 3 hrs.

1- Helper

2- Laborers 700 to 1000 = 3 hrs.

1- Laborer 900 to 1000

Finishing 700 to 5 = 8 hrs.

1- Finisher

1- Laborer 700 to 100 = 5 hrs.

Clean up

2- Laborers 1000 to 1100 = 1 hr.

✓
Mar 10, 1934 7am to 4pm.
North Sidewalk

Laying 4" Drains under wall

Sta. 6+88 to 7+12.
7+44

1- Laborer 7⁰⁰ to 10⁰⁰ 2 hrs.

Forms.

1- Carpenter Foreman } 10⁰⁰ to 4⁰⁰

1- " Helper }

2- Laborer @ 11⁰⁰ to 1⁰⁰

✓ Cleaned 600 5x

62

Mar 10, 1934 7am to 4pm.

So. Sidewalk

Mix 1.2.4 75x 9 Batches 63 5x

1.2.4 65x Batches

Start ¹⁰⁰~~10⁰⁰~~ Finish 4⁰⁰ Delays
= 3 hrs.

1- Mixing Plant

1- Blaw Knox Truck Mixers

1- General Foreman

1- Mixer man

1- Man

Conc. Del. 1- Truck Driver

Placing Conc 3- Laborers

Sta 7+02 to 7+26 Elev 690 to Finish Line

Sta 7+26 to 7+38 Elev 680 to 685

Mar 12, 1934 7am to 4pm

Mar 11, Sunday

South Side wall 7⁰⁰ to

Clean Up.

1- Truck Driver 7⁰⁰ to 3⁰⁰

4- Laborers to 11³⁰

1- Laborer 12³⁰ to 3⁰⁰

1- Truck

Chipping Conc.

1- Laborer 7⁰⁰ to 11³⁰ = 4 hrs to wall
1/2 hr to wall
4 hrs to floor

Finishing 1- Finisher } 7⁰⁰ to 5⁰⁰
1- Laborer }

Forms

1- General Foreman } 7⁰⁰ to 2⁰⁰ = 2 hrs to wall
1- Carpenter Foreman } 4 hrs to floor
1- " Helper }

Clean Up.

1- compressor } 7⁰⁰ to 3⁰⁰
1- Air Pump }

to Floor Laying 6" Drain Tile Sta 7+10 to 7+36 = 26' 3"
Laying 6" Drain Tile Sta 6+25 to 6+40 = 15'
1- General Foreman } 2⁰⁰ to 3⁰⁰
1- Carp. Foreman }
1- " Helper }

Mar 12, 1934 7am to 4pm

So. Side wall

Start 9⁰⁰ Finish 3³⁰

Mix 1:2:4 75x 5 Batches = 35 5x

1- Mixing Plant

1- Barber Greene

2- Blaw knee Truck Mixers

1- Cat. 60.

1- General Foreman

1- Mixer man

2 Men

1/2 hr.

Conc. Del. 2 Truck Drivers

Chipping Conc. 2- laborers 3⁰⁰ to 3³⁰ = 1/2 hr.

1- Carp. Helper to 4⁰⁰ = 1 hr.

Sta 7+07 to 7+26 Elev 690 to Finish Line

Sta 7+26 to 7+38 Elev 685 to Finish Line

✓
Mar 12, 1934 7am to 4pm.

Spillway Floor.

Start. 3⁰⁰ Finish 5³⁰ 15 6sx Mix
2 1/2 hr. Batches

1- Mixing Plant. 90sx

1- Barber (Greene &) Truck

1- Cat. 60.

2- Blaw Knox Truck Mixers 1 1/2 hr
3 " " " 4³⁰ to 5³⁰ = 1 hr.

1- General Foreman }

1- Mixer man }

2 Men. } 2 1/2 hr.

Conc Del. 2 Truck Drivers 1 1/2 hr.
3 " " 4³⁰ to 5³⁰ = 1 hr.

Placing Conc. 1- Carpenter Foreman 2 1/2

1- Laborer 2 1/2

2- Laborers 3³⁰ to 5³⁰ = 2 hrs.

Finishing 1- Finisher 2 1/2 hr.

Sta 6+25 to 7+38 Base line of Se wall to
Existing concrete.

✓
Mar. 13, 1934 7am to 4pm.

So. Side wall

Stripping

1- Carpenter Helper } 7⁰⁰ to 8⁰⁰ = 1 hr.

1- Laborers

Finishing 7⁰⁰ to 4 4 1/2 x cement.

1- Finisher

1- Laborer

Hunt Process

1- Laborer 7⁰⁰ to 8⁰⁰ = 1 hr.

Cleanup 8⁰⁰ to 9⁰⁰

1- Cat. 30. 8⁰⁰ to 9⁰⁰ = 1 hr.

2- Laborers

1- Truck 9⁰⁰ to 4 = 6

Contractors used 100⁺ Calite on Mar 9

✓
Mar 13, 1934 7am to 4pm

No. Sidewall

Forms

12³⁰ to 4

1- General Foreman 7⁰⁰ to 11³⁰ = 4½

1- Carpenter Foreman 7⁰⁰ to 11³⁰ = 4½
3⁰⁰ to 4

1- " Helper 8⁰⁰ to 11³⁰ = 3½
3⁰⁰ to 4

2. Laborers ⊗

Moved to Hyd. Fill at 12⁰⁰ to 3⁰⁰ = 2 ½ hr.

✓
Mar 14, 1934 7am to 4pm

So. Sidewall

Finishing 7⁰⁰ to

1- Finisher

1- Laborer

Clean Up. 7⁰⁰ to 8⁰⁰ = 1 hr.

1- Compressor

1- Air Pump

1- Laborer

✓
Mar. 14, 1934 7am to 4pm

North Sidewall.

Forms 7⁰⁰ to 11³⁰

- 1- General Foreman
- 1- Carpenter Foreman
- 1- " Helper.
- 2- Laborers x 7³⁰ to 11³⁰

Laying 4" Drain Sta Sta 7412 to 7438 - 25'

2- Laborers 1/2 hr

✓
Mar 15, 1934 7am to 4pm.

See Sidewall

Hunt Process 7⁰⁰ to 8⁰⁰

- 1- Compressor
- 1- Carpenter Foreman.

North Sidewall Forms.

1- General Foreman 7³⁰ to

March 16, 1934 7am to 4pm.

North Sidewall

Forms 7⁰⁰ to

1- Carpenter Foreman } 7⁰⁰ to 8³⁰ = 1 1/2

1- Laborer.

1- Laborer 8⁰⁰ to 8³⁰ = 1/2

Wetting Forms.

1- Laborer 7⁰⁰ to 8⁰⁰ = 1hr

Clean up at Mixing Plant 7⁰⁰ to 8³⁰ = 1 1/2

1- Compressor

1- Air Pump.

1- General Foreman

1- Mixer man

2- Truck Drivers

March 16, 1934 7am to 4pm.

Mix (a) 75x 16 Batches Conc. 112 5x

(b) 65x 4 Batches Conc. 24 5x
136 ✓

Start 8³⁰ Finish 11⁰⁰ Delays

1- Mixing Plant - 2 1/2

1-

2- Blaw Knox Truck Mixers

1- General Foreman

1- Mixer man

1 Men

Comp. Del. 2 Truck Drivers

Mixing Conc. 2 Laborers

1- Carpenter Foreman

Correction

6+83 to 7+07 Subgrade to ✓
Sta 6+88 to 7+12 Elev 688 ✓

Sta 7+16 to 7+40 Subgrade to Elev 670
680

✓
March 17, 1934 7am to 4pm

North Sidewall

Forms 7⁰⁰ to 4^{PM}

1- General Foreman

1- Carpenter Foreman

2- Laborers

✓ Sunday Mar 18-
Mar 19, 1934

68

North Side wall

Clean up 7⁰⁰ to 7³⁰

1- General Foreman

2- Laborers

Forms 1³⁰ to 4⁰⁰

1- General Foreman

1- Carpenter Foreman

4- Laborers

Core wall

Clean Up 7⁰⁰ to 1³⁰ = 6^{1/2}

1- Carpenter Foreman

✓
March 19, 1934

North Sidewall

Mix 75x ¹³/₄₂ Batches 91 5x
65x Batches

Start 7³⁰ Finish 9³⁰ = 2

1- Mixing Plant

1 Blaw Knox Truck Mixers

1- Barber Greene & 1 Truck

1- General Foreman

1- Mixerman

2 Men

Conc Del. 1 Truck Drivers

Placing Conc.

3 Laborers

Agg. Supply. 1- Truck Driver

Sta 6+88 to 7+07 Elev 688 to 694

Sta 7+16 to 7+40 Elev 680 to 686

✓ ✓ cleaned 600 5x⁶⁹

✓
March 19, 1934

Corewall -

Mix 75x 19 Batches 133 5x

1- 55x Patch Grout. 5 5x

Start 9³⁰ Finish 13⁰ = 3 1/2

1- Mixing Plant

1- Barber Greene & 1 Truck

1- Blaw Knox Truck Mixer = 2 1/2

2- " " " " 12³⁰ to 1³⁰ 1hr

1- No 9 Crane

1- General Foreman 3 1/2

1- Mixerman

2- Men

Conc Del. 1- Truck Driver = 2 1/2
2- " " " 1hr

Placing Conc. 1- Crane operator & oiler

3- Laborers

Agg. Supply. 1- Truck Driver

Sta N 4080 to 4088 Elev 730 to 732

Sta N 4088 to 4096 Elev 722 to 732

Sta N 4096 to 4104 Elev 726 to 732

Sta N 4104 to 4112 Elev 734 to 740

March 19, 1934 7am to 4pm

Corewall Started Sat. nite

Drilling Grout Holes. 7⁰⁰ to

1- Compressor
2- " 2⁰⁰ to 4⁰⁰
1- Water Lyner

1- Driller

2- Helpers.

2- Muckers 7⁰⁰ to 11³⁰ = 4¹/₂ hrs.

Concrete Samples. 1:2:3 Mix

Nos. 23, 24, 25.

Corewall Mar 19

Nos 2423, 2424, 2425

Corewall Mar 20. 1:2:5 Mix.

Nos. 2426, 2427, 2428.

March 20, 1934 7am to 4pm

North Sidewall

Forms. 7⁰⁰ to 8³⁰

1- Carpenter Foreman

2- Laborer.

Wetting Concrete

1- Laborer 7⁰⁰ to 8⁰⁰

1- Water Tank Truck

✓
March 20, 1934 Taw to 4 pm.

Corwall

Clean up. 7⁰⁰ to 7³⁰

1 - Crane
1 - Carpenter Foreman 3 - Laborers } 8³⁰ to 10⁰⁰
1 - Crane Operator. - 1 oiler
2 - Laborers. 7⁰⁰ to

1 - General Foreman 7⁰⁰ to

Drilling Grout Holes. 7⁰⁰ to 9⁰⁰ = 2 hrs.

2 - Drillers - 2 - Helpers 1 - Foreman

Pipe Lgths.	Depth
20'-0"	0+40 #5 - 25'-0"
20'-0"	0+35 #4 - 25'-2"
19'-6"	0+30 #3 - 25'-6"
20'-9"	0+25 #2 - 25'-0"
21'-0"	0+20 #1 - 26'-2"

✓
March 20, 1934 Taw to 4 pm

Corwall

95x Reclaimed
300. 5x Cleaned

65x Mix 1 1/2'S 50 Batches = 480

55x 1'2 Grout 3 Batches 15

Start 10⁰⁰ Finish 11³⁰

1 - Mixing Plant.

5
3
12

1 - Barber Crane & 1 Truck

2 - Blaw Knox Truck Mixers

1 - No 6 Crane.

1 - General Foreman

1 - Mixer man

2 - Men.

Conc. Del. 2 - Truck Drivers

Plac. Conc. 1 - Crane Operator

1 - Oiler

3 - Laborers.

App. Supply 1 - Truck Driver

30' Coppel.

Sta 0+142 to 0+131 1/2 Elev 706 to 720

Equation N 4125 S = 0+100.

55x grout to Corwall
Contractors A-c-d.

March 20, 1934 7am to 4pm

North Sidewall

Forms.

1. Carpenter Foreman 10⁰⁰ to 4⁰⁰ ⁵

1380713

March 21, 1934 7am to 4pm.

Crewall

Clean Up.

2. Laborers 7⁰⁰ to 11³⁰ + 1/2 ✓

Pressure
Grouting

Setting up Equipment 7⁰⁰ to 10⁰⁰ → 3 hrs.

1. Mixerman

1 - Blain Knox Truck Mixers.

2. Laborers.

1 - Truck Driver

1 - Compressor & Graft Tank

Pressure Grouting 10⁰⁰ to 11³⁰ = 1 1/2 hrs.

Sta	No	Cu. Ft.	Remarks
0+70	#1	4	Tight
+25	#2	3	Holes
+30	#3	4 1/2	
+35	#4	3 1/2	
+40	#5	5 1/2	

20 1/2 cu. Ft.

1/2 wasted.

15 sx used. 21 Total used

✓
March 21, 1934 7am to 4pm

Corwall

Erecting Str. Steel.

- 1- Candy Wagon } 7⁰⁰ to 9⁰⁰ = 2 hrs.
- 1- Driver }
- 1- Carpenter Foreman 7⁰⁰ to 4⁰⁰ 8 hrs.
- 1- Crane } 8⁰⁰ to 11⁰⁰ = 3 hrs.
- 1- Crane Operator }
- 1- General Foreman 12³⁰ to 2⁰⁰ = 6 hrs.
- 4- Laborers. 12³⁰ to 4⁰⁰ = 3 1/2 hrs.

4- Steel Columns.

1 3/16 Horizontal } steel beams at 72.5 to 74.0
7/8" Vertical }

Mar 10, 1934

1500 # Sand.

1240 1/2" ³⁴⁰ 2780

660 3/4" 3400

220 pea 3620

660
220
880

Mar 20, 1934 1:2:1 Mix.

original

modified

65x cement.

65x cement

1250 # Sand.

1500 # Sand. diff = +250

850 # 2 1/2"

850 # 2 1/2" 0

970 # 1 1/2"

900 # 1 1/2" - 70

770 # 3/4"

890 # 3/4" } 590 - 120

3840

200 # pea

3840

used Mar 10, 1934

1500 # Sand

1340 # 1 1/2" 2840

560 # 3/4" 3400

220 # pea 3620

used - Feb. 26, 1934

65x cement

1400 # Sand.

1340 # 1 1/2"

670 # 1/4 to 3/4 } 880 #

210 # pea

3620

1030
880 #
150 #
210 # pea
360 #
670 # %
1030

Trial Mixes to correct for lack of
Feb 15, 1934 pea gravel

1:2:4 Gsx.

(a) 6sx. 1250# Sand. 1340[#] 1/2" 1030[#] 3/4"

To correct + Harsh Mix.

(b) 6sx. 1350[#] Sand. 1340[#] 1/2" 930[#] 3/4"

+ 350#

(c) 6sx. 1600[#] Sand. 1140[#] 1/2" 880[#] 3/4"
on sidewall Feb. 13th 42 gals. water

1250 ✓
1340 ✓
1030 ✓
3620 ✓
2740 ✓
880

2740
1140
1600

1600
1140
2740

1340 3620
900 2240
2240 1360

1600
1320
900
3620

(d) Spillway Floor. Feb. 15th

6sx 1400 1320[#] 1/2" 900[#] 3/4"

36 gallons of water instead of 32.

(working etc)

1400
1320
900
3620

Excavation

Powder required on D.G.

At Sta 7+30 ~~17~~ 670

400 cu yds. 3 to 8' lift x 30' x 90' = 400 ± cu yds.

used 300[#] 40% dynamite

= 3/4[#] per cu yd. max # per vol. used

Condition where lift is 10' to 15' black
powder can be used by "springing"
and using about 1/4 to 1/2[#] per cu yd.

Estimates

	1st	2nd	3rd	4th
O.G. Section				
Total Pour	247	163	100	57
Cy per ft.		120	16	11

Warped Section	1st	2nd	3rd	4th	5th	6th	7th	8th
Total Pour	102	85	90	103	86	58	40.32	40
Lift in ft.	⊙	5	7	7	10	5	6	
Cy per ft.		17	13	15	9	10		

Spillway Floor 25 to 30 cy per ⁸⁰⁰ 20 x 40 panel
or 3/4 cy per lin ft.

Side Wall 24 cy for 2 panels
considerable overbreak. 10 to 12 cy per 6' panel ^(24 x 6)

28 Day Concrete Estimate

$$S_{28} = S_7 + 30 \sqrt{S_7}$$

$$\text{Absolute Volume} = \frac{\text{Weight}}{\text{Sp.} \times 62 \frac{1}{2}}$$

$$\frac{210}{50} \\ \hline 160$$

Mix used Feb 19 on Spillway Floor
" " Feb 26 " " "

13.50 [√] Sand	1340	1 1/2
1340 [√] 1/2	2690	Sand.
720 [√] 1/4 to 3/4	3410	1/4 to 3/4"
210 [√] pea.	3620	pea.
3620 [√]		

Grout & Mortars.

(g) Thin Pressure Grout

Cement & Water only

5sx cement 35 gallons water - 7 cu ft Grout

use 100# per sq. in.

(f) 1:2 Mortar for cold joints & anchor bars

5sx cement 1000# ^{Feb 1934} Sand (35 gal)

Yield 4 cu. yd.

(a)

1:2:3 75x Special for Starting Wall

75x Cement 1250# Sand 900 1 1/2" 1470 3/4"

75x Cement 1400# Sand 1200 1 1/2" & 920 3/4"

(b) Tower Special

65x Cement 1900# Sand 1100 1 1/2" 1125 3/4"

$\frac{1030}{4} = 260\#$

150 + 110 = 260

Mix used Feb 19th

65x cement 1300# Sand 1340 1 1/2"

$\frac{140}{200}$

$\frac{2640}{3360}$

720# 1/4"

260# pea

950 ✓

3620 ✓

Concrete

Batch Measures

(e) 1:2 1/2 : 5 Mass Concrete (1600#) Min.

55x Cement 1250# Sand 850 2 1/2" 970 1 1/2" 770 3/4"

Yield 1.1 cu. yd. (4" Slump)

30 to 35 gal. additional water dependent upon Moisture Content of Aggregates.

(b) 1:2:4 Regular (2000# Min)

65x Cement w/ 1250# Sand 1340 1 1/2" or 1030 3/4" Rock
to correct Mass Mix max 1550# ✓ Min 930#

Yield .99 cu yd

Permit 5% variation, in aggregates due to overlapping of material in stock Piles.

(d) 1:2:4 Modified for Care wall Top of Side walls and for 1st row up each lift of Sidewall

75x Cement 1200# Sand 1340 1 1/2" 1030 3/4" Rock

Yield 1.03 cu yd 3 to 4" & 8 to 9" Slumps.

34 to 40 gallons additional water

(c) 1:2:5 Special

65x Cement 1250# Sand 850 2 1/2" 970 1 1/2" 770 3/4" Rock

Yield 1.12 cu. yd.

34 to 38 gallons additional water

Test 2440

$$\begin{array}{r} 14 \times 6 \times 25 \\ \hline 27 \end{array} \quad \begin{array}{r} 14.7 \\ 9.5 \\ \hline 24.2 \end{array}$$

$$\begin{array}{r} 14 \\ 6 \\ \hline 20 \end{array}$$

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.

MADE IN GERMANY.