

18

FINAL TOPOGRAPHY.

LEVEL BOOK

389

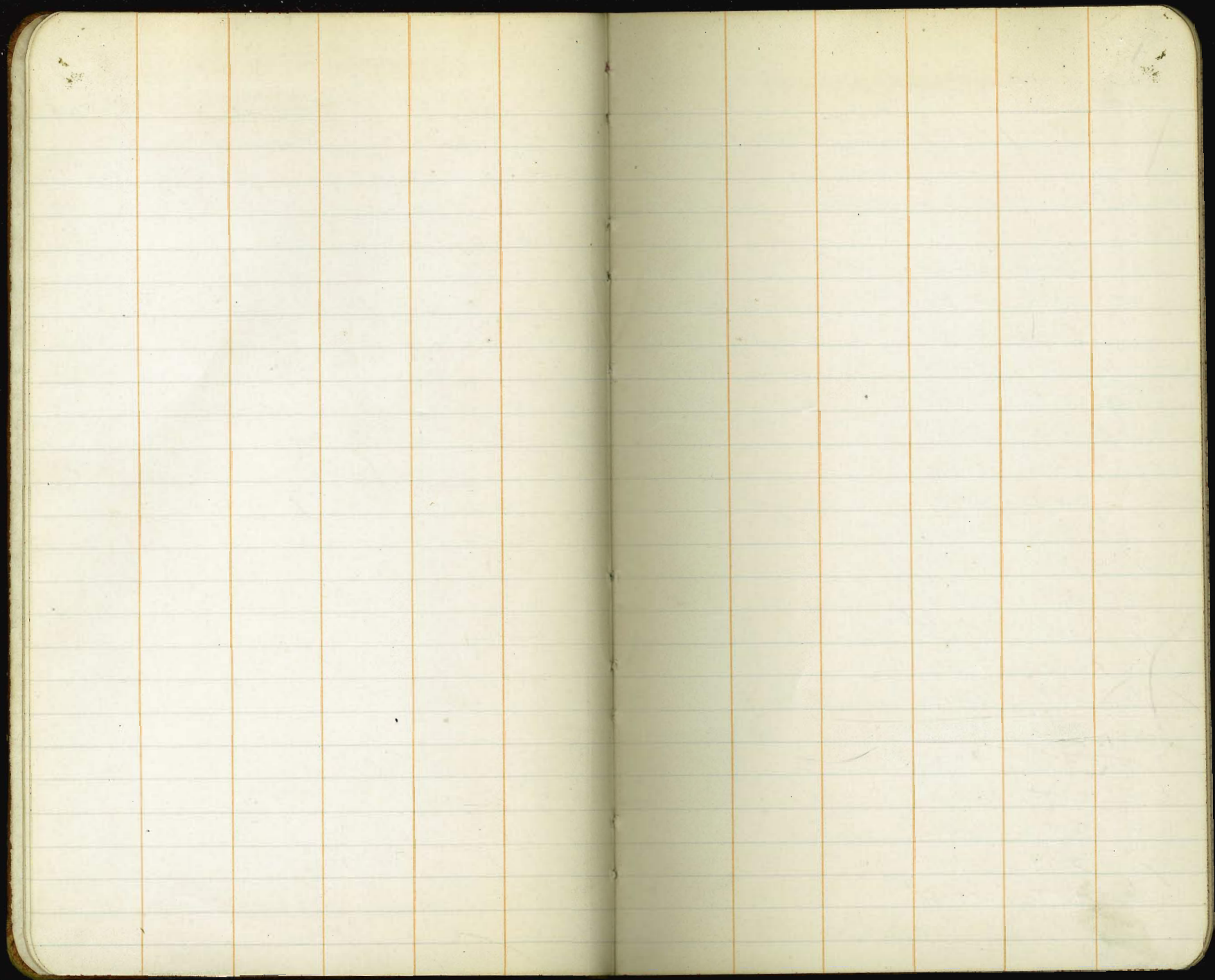
W136

1009

MICROFILMED

- Final Topog -  
Index

Final Topog - At C 6+00 - Elev 1525	1
" " At C 5+90 Elev 1530 - 1535	2
Corrected Topog Rt Abut. 1520 - 1525 -	4
Dist to rear Forms Curtain Wall -	A
Right Abut Topog - 1535 -	5
Left Abut Topog 1535 - 40 - 45 - 50 - <del>55</del>	6
Left Abut Topog 1555 - 60 - 65 - 70 - 75	7
Left Abut Topog 1575 - 80 - 85 - 90	8
Right Abut Topog 1525 - 30 - 35 - 40 -	9-10
" " " 1545 - 50 - 60	11-12-13
Set Auxil Pt - 50 - 343.90	14



3-15-21

Burb  
Fisher  
Mixer

Final Topog-

ATC-6+00 sight 650 for zero <sup>ALAT</sup>

Nailin <sup>6x0.82</sup>  
whale

3.32 28.17

24.85

Red 3.2

1525

~~35.2~~  
35.0

21-45 ✓

1525

30.0

221-30 ✓

"

30.0

32-30 ✓

"

31.0

239-0 ✓

"

22-0

40-30 ✓

"

33.4

248-30

"

17.1

46-30 ✓

"

36.3

249-0

<sup>0.6</sup> top of form

USE <sup>21.0</sup>

9.8

22-0 ✓

"

41.7

258-30

<sup>0.7</sup> RL-F.M.

9.9

75-30 ✓

1525

12.6

54-0 ✓

"

9.5

65-0 ✓

"

8.3

92-0 ✓

"

7.8

122-0 ✓

"

11.0

148-0 ✓

"

16.1

167-30 ✓

"

19.7

176-0 ✓

"

21.7

184-30 ✓

"

23.3

188-0 ✓

"

26.5

187-0 ✓

"

26.2

193-0 ✓

"

28.0

200-0 ✓

"

30.4

202-15 ✓

"

29.6

209-15 ✓

"

Platted  
3-15-21

3/19/41 Copied from page 4. Book 19

At C5+90 Sight Tangent West  
for zero AZ Rt

T.P. Top  
Grout Pipe  
Rod 574

061 35.74 1535.13

1530. 76 37° 1530 47.1 248°

733 48-30 58.0 258-30

706 57

173 58-30

163 68

147 73-15

144 86-30

116 121

146 132-30

167 146-15

188 159-45

Top Form.  
Rock Conct.  
Top Form  
Downstream Face.

166 133-45

37 163

26.1 171

39.0 181-45

37.0 192-15

40.0 196-45

396 201-15

41.4 207-15

407 220

426 241

~~Contractor Jonick  
Set on C-78 - Sight West Tang  
for Zero of RL~~

~~Cont Joub Set Nght on form at 2+73<sup>08</sup>~~

~~7.7' 32°-50  
23.9' 79°-45~~

2+8000  
692  

---

2+7308

3/22/21  
 Bob  
 Mixer

Corrected Topog Rt Abut.

Set on 2+10 sight West on  
 Tang for zero Az Rd.

Nail SW Cor Tower filled.	0.12	24.30	1524.18
Rod 43			
15+0	6.6	93-30	
	1.6	46-0	
	6.7	324-0	
	12.8	359-0	
	18.7	332-0	
	21.2	334-30	
	28.5	326-45	
	32-3	318-15	
	37.8	316-15	
R+0.7	37.9	323-15	
15+5	30.1	326-45	
	20.7	337-0	
	15.9	343-0	
	14.0	32-30	
Vert 10	13.7	5°-45	
Vert 10	6.8	00	
Vert #9	5.8	00	
	7.1	41°-30	
	6.4	82-N	

Platted 3/22/21

Distances to Rear forms El 1523  
 Rear forms about 3' higher.  
 El. Front forms - 1548.5

sta		
2+20	20.75	4+30 <sup>00</sup> 1385
2+30	21.05	4+20 14.80
2+40	21.40	4+10 15.27
2+50	21.53	4+00 15.35
2+60	21.84	3+90 15.20
2+70	22.15	<del>3+80</del>

Platted 3/22/21

Cent. pt. 3+81<sup>25</sup> 14.65

El =	1542.95
4+90	14.45
5+00	15.20
5+10	15.90
5+20	16.40
5+30	17.20
5+40	17.70
5+50	18.60

El = 1533.12 front form Rear form about 3' higher

4+80	13.8
4+70	14.0
4+60	13.4
4+50	13.4
4+40	13.65
4+35 <sup>35</sup>	13.5 Center point



3/29/21

Bryson  
Fisher  
Mixer

Inst. sight Right Abt. Topog.  
D. 22 left 4.7  
Fang. 1543.43

1535 Cont.	Dist	Az
	19.8	1045' ✓
	22.8	1015' ✓
	31.7	9° ✓
	37.8	0° 10' ✓
	42.1	351° 30' ✓
	49.4	339° 30' ✓
	53.6	338° ✓

~~Plotted  
3-29-21~~

4/15/21  
 Bob  
 Fisher  
 Mixer.

Transferred from Book 19 Page 37-38  
 Final Topog  
 East Tangent.

Nail in road 6735	At C 5+70	Sight C 70 for Zero Az Right	6.52	41.49	1537.97			
Rod 65		Rod 15						
1535	23.0	295-40	1540	69.3	59-15			
"	216	303-15	"	59.0	37-15			
"	20.1	312-15	"	58.9	31-45			
"	213	322-15	"	60.0	25-30			
"	25.2	331-15	"	62.5	23-30			
vert. 10'	30.5	332-45	"	64.0	16-15			
1535	33.5	337-0	"	66.7	11-45			
"	38.8	346-10	"	68.5	8-0			
"	40.5	352-0	"	68.3	5-45			
"	43.5	353-30	"	71.0	1-15			
"	46.5	352-45	"	68.2	00			
"	56.2	358-0	"	65.0	357-0			
"	62.5	359-45	"	57.0	353-0			
"	64.5	1-0	"	54.5	356-0			
"	66.5	2-30	"	49.5	355-15			
"	67.8	6-30	"	48.5	353-30			
"	64.8	11-30	"	47.5	352-30			
"	59.9	21-0	"	46.2	350-30			
"	57.8	27-0	"	43.5	350-30			
"	57.0	32-0	"	39.0	343-0			
"	56-0	37-15	"	34.7	336-30			
vert 50'	70	63-0		32.0	332-45			

Rod 15	26.5	328-0
1540	24.5	319-30
	26.0	308-0
	25.5	299-0
	22.5	262-0
	22-0	243-0
	AT B 56-450 - Sight Center for Zero	
B-52	4.25	54.59
		1550.34
Rod 96		
1545	21.3	30-0
"	23.0	25-45
"	24.0	9-0
"	27.9	345-30
"	29.5	334-0
	AT B 58-450 Sight Center for Zero	
	12.94	1563.28
		1550.34
Rod 13.3		
1550	22.7	50-30
"	24.2	41-0
"	22.8	26-0
"	22.7	9-30
"	22.3	358-15

Plotted  
 April 16-1921

4-26-21  
Bud  
Fisher  
Mixer.

East Tangent. Transformed from  
Final Topog. Book 19 - Page 47.

At 58-450 - Sight Center for Zero

4-26-21

Final Topog

7

At 62-428 - Sight Center for Zero Az Right.

446 Auxil Pt	15.07	349-05			
	At Auxil Pt Sight 58-450 for Zero Az Right				
B-58	4.1	63-60	1559-50		
Rod 13.6				Rod 35	
15 50	9.5	198-30	1560	15.9	152-10
"	11.0	173-30	"	21.5	144-30
"	18-0	156-30	"	26.4	140-0
"	22.6	149-0	"	29.5	136-30
Rod 55				5	31.5
1555	22.5	146-45	"	39.3	134-0
"	18.7	152-45			
"	13.4	159-0			
"	8.8	171-45			
"	5.7	178-30			
"	4.5	225-15			
"	8.5	268-30			
"	11.8	306-30			
"	43.0	138-45			
"	43.5	136-30			
Rod 35					
1560	7.2	2-15			
"	5.3	112-15			
"	6.2	130-0			
"	11.1	145-30			

Platted  
May 3  
1921

62-428	3.57	79.78	1575.91		
				Rod 45	
Rod 14.5					
1565	23.5	91-15	1575	4.4	130-45
"	19.0	74-30	"	3.0	31-45
"	14.7	62-30	"	4.3	345-0
"	11.2	53-0	"	9.9	312-30
"	9.3	25-0	"		
"	11.1	7-0			
"	11.8	346-45			
"	14.5	321-45			
"	17.2	314-30			
1560	20.0	328-0			
1565	25.4	306-45			
1560	25.3	313.5			
Rod 95					
1570	24.7	300-0			
	17-0	308-15			
	14-0	309-30			
	13-0	329-30			
	7.9	365-0			
	7.6	25-30			
	9.3	57-45			
	10.0	82-45			
	12.7	98-0			

Platted  
May 3 1921

4-26-21

Bub  
Fisher  
Mixer.Final Topog Transferred from  
Book 19 - Page 48

8

At 64-428 92 Sight Center for Zen Az Right

64-430 1.27 89.65 1588.95

Rod 14.5

1575 10.2 45-15

" 8.5 12-15

" 18.0 340-30

Rod-9E

1580 17.8 322-45

" 13.8 327-45

10.1 331-30

6.9 8-30

8.1 55-0

13.0 69-30

14.7 86-30

Platted  
May 3-1921

At 66-429-86 Sight Center for Zen Az Right.

3.43 98.84 1595.41

Rod 13E

1585 23.4 95-30 Rod 88 1590 16.7 354-30

23.5 81-0 14.2 1-0

16.5 62-30 11.0 17-0

16.9 29-0 11.0 37-30

18.5 16-0 9.9 57-0

23.5 3-30 15.2 71-0

Rod 88

17-0 78-15

1590 22.9 345-0 13.7 87-0

21.2 356-0 14.5 112-30

6/21/21

Bug  
Fisher  
Mister

## Final Topog Right Abutment.

At D 18 chained 6° east

D 1486 - Nail in Concrete.

HI 515

At D - 1486 Sight R.P. West for zero

Az Right.

1486 - 3372 R

15°	8.11	43.16	1535.05
17.5	347-15	15.4	27.8
12.2			
14.7	7-30	15.4	27.5

Rod 131

-1530 -

-1535 -

R.C.

1530

10.4			
9.9	9-45	Rod 82	27.3 33.1-0
10.2		1535	25.9 326-30
9.7	359-15	"	28.4 315-0
15.5		"	24.2 315-45
15.0	341-0	"	15.1 320-0
19.4			
18.9	352-0		
13.7	12-30		

Rod 82

• 1535

1535

4.8			
4.3	9-0	Rod 32	9.8 164-0
10.2		1540	7.7 163-0
9.7	9-30	"	6.9 135-30
16.3		"	4.8 100
15.8	14-15	"	4.1 34-0
19.9	11-45	"	8.4 27-45
21.4	12-30	"	13.5 20-30
23.3	5-30	"	21.5 19-30
26.1	2-0	rod 7	26.3 16-0
31.9	350-0		
32.0	345-30		
26.1	347-30		

511

9

515

-1540 -

Rod 32

Rod 32

-1540 -

1540	34.7	12-0	1540	65.9	329-0
"	38.5	00	"	67.5	326-30
"	40.7	356-45	"	67.0	326-0
"	44.5	358-0	"	73.5	328-0
"	47.1	357-0	"	75.3	328-0
"	47.8	353-0	"	71.2	323-30
"	49.9	350-0	"	68.6	322-0
"	51.2	346-0	"	64.5	320-0
"	47.2	342-30			
"	41.3	345-0		overhang = 10 angles	
"	42.4	340-30		61.9	315-30
"	47.2	338-0		63.3	308-45
"	40.4	332-30		62.4	303-30
"	35.4	330-0		61.3	302-0
"	41.5	325-0		62.5	299-0
"	46.5	322-0		62.2	296-0
"	51.3	327-0		63.2	293-30
"	58.2	332-30		60-0	291-30
"	58.4	334-30			
"	54.9	338-0			
"	57.9	340-0			
"	51.8	336-0			
"	62.8	335-30			
"	60.5	335-30			
"	64.2	331-0			

6/ 6/21/21

10

At D1456-

HI 1843.2

Rod 5 =	60.6	291-30	Rod 5.2 Veg 5.2	61-0	253-0
15 35	60.5	292-30	14 35	68.8	280-30
	58.5	295-30		69.9	279-0
	59.5	296-0		69.5	274-30
	57.5	299-0	Rod 3.2 1540	1540	-
	56.5	302-30		74.1	274-30
	55.3	304-15		73.5	277-0
	55.7	306-0		72.5	279-0
	57.7	308-15		69.9	281-30
	59.8	308-30		67.3	283-0
	60.9	312-30		61.5	283-0
	61.9	315-45		62.5	286-0
	64.9	320-0		60.9	288-0
	63.8	321-30			
	59.6	321-0	Auxil PTA	44.35	287-10
	53.7	323-0	Nail in concrete		288-10
	49.5	318-0			
	44.7	307-30	Auxil B Nail in rock	50.68	332-0
	43.5	317-30			
	40.6	316-0			
	35.1	312-15			
	34.9	306			
	37.7	303-0			

concrete.

Break

At Auxil PTA Sight D1456 for zero A2 Pt

148188					
332.70					
Rod 7.7	-1530				
1530	25.2	147-15	concrete.	6.5	191-0
	23.1	162-30			5 angles under cut
	21.2	167-0			10 angles under cut
	17.3	166-15			10 noted in marking
	16.2	183-0	Rod 12.7		1525
add 4 in gbs under cut					
	15.9	197-0	1525	13.3	227-0
	14.1	222-0		16.171	241-0
	15.0	234-30		17.200	247-0
	19.9	245-0		16.7	261-0
	16.2	247-0		13.7	261-30
	32.1	250-0		13.1	263-30
	29.3	251-30		14.1	281-30
	28.5	256-30		8.5	290-0
	23.2	259-30		6.3	272-0
	19.4	271-0		5.3	227-0
	18.7	285-0		7.5	217-30
	14.1	293-0		10.0	213-30
	10.9	298-45			
	4.8	226-0			
	61	202			

Platted 6/21/21  
(Bus.)

6/22/21  
Sub  
Asher  
Mixer

Final Topog  
Right Abutment

At Auxil "B" Sight ~~D~~ 186 for Zero Az Rgt

1481.5 337.70

10.13 45.88

1535.05

1545

58.0	355-15 ✓ 58.0	26.0 <del>25.5</del>	176-0 ✓
55.9	351-30 ✓	26.5	168-0 ✓
54.9	351-30 ✓ vert to Bot	23.5	154-0 ✓
53.4	352-40 ✓ vert to Bot	18.5	127-0 ✓
49.0	348-30 ✓	19.8	122-0 ✓
46.1	344-0 ✓	19.8	114-0 ✓
40.2	337-0 ✓	26.3	108-0 ✓
34.7	328-15 ✓	30.5	105-0 ✓
31.9	323-0 ✓	31.7	99-0 ✓
30.2	320-30 ✓	34.9	96-0 ✓
26.2	317-45 ✓	36-0	94-15 ✓
25.3	311-15 ✓	37.9	93-30 ✓
22.5	307-30 ✓	37.8	90-30 ✓
22.7	295-0 ✓	40.3	89-30 ✓
25.6	284-45 ✓	41.0	83-0 ✓
23.3	285-15 ✓	43.5	81-0 ✓
16.8	281-0 ✓	<hr/>	
11.6	264-30 ✓		
8.8	247-15 ✓		
11.0	231-30 ✓		
13.4	213-0 ✓		
13.7	190-0 ✓		
17.5	178-0 ✓		

Plotted 6/22/21

HRB

6/22/21

11

At 1+85 62 (353.10) Sight Auxil B for Zero Az Rt

(105-353.9A)

48.9 59.90

1555.0A

Rod 14.9  
1545

Rod 9.9

Plotted 6/22/21

HRB

26.7	285-30 ✓	1550	57.3	332-0 ✓
29.3	280-30 ✓	"	68.3	332-0 ✓
29.7	273-30 ✓	"	71.4	337-45 ✓
31.0	266-0 ✓	"	78.0	339-15 ✓
32.0	261-30 ✓	"	69.7	342-0 ✓
31.8	256-0 ✓	<hr/>		
1550	275-0 ✓	1555	74.3	346-0 ✓
34.0	275-0 ✓	"	83.8	342-0 ✓
31.0	282-0 ✓	"	82.2	338-0 ✓
32.0	283-0 ✓	"	78.7	335-0 ✓
30.7	284-30 ✓	"	71.2	330-0 ✓
27.5	289-0 ✓	"	65.7	327-30 ✓
30.6	294-0 ✓	"	61-0	326-30 ✓
28.5	303-30 ✓	"	57-0	328-0 ✓
30.3	305-15 ✓	"	51.7	327-0 ✓
30.3	306-45 ✓	"	49.7	323-30 ✓
33.5	309-0 ✓	"	46.0	322-0 ✓
35.8	315-0 ✓	"	40.3	321-0 ✓
37.0	319-30 ✓	"	37.5	314-30 ✓
39.3	320-0 ✓	"	38.0	309-0 ✓
44.9	325-30 ✓	"	36.7	301-0 ✓
51.5	327-30 ✓			

6/22/21

At 1185-62-3531-R Sight April B for zero Az 2R

Red 00	— 1560 —				
1560	44.1	305-0	Red 50	64.3	356-30
"	44.0	313-0	15.55	67.7	356-0
"	46.3	319-30	"	67.7	353-30
148	49-0	321-40	"	65.8	350-30
	54.0	322-0			
	63.2	322-0			
	66.2	323-30			
	68.8	325-0			
	74.9	328-30			
	78.5	332-0			
	80-0	334-0			
	85.7	336-0			
	87.2	338-0			
	92.2	341-0			
	84.0	346-0			
	81.9	348-30			
	70.5	350-0			
	71.0	353-0			
	70.5	354-0			
	65.5	357-40			

Plotted 6/22/21  
HRB

6/22/21

12

At (1183.93-34540 R) Sight April B for zero Az 2R

(1183.93-34540)	4.93	1557.00	1545.07
1550	64.3	348.15	
"	67.0	353-30	
"	64.5	355-0	
"	62.7	1-45	
"	69.1	8-0	
"	76.5	11-30	
"	76.5	12-45	
"	73.3	13-0	
"	67.0	17-30	
"	67.3	19-30	
"	66-0	21-0	
"	68.0	23-0	
"	68.2	28-0	
"	68.2	30-0	
"	66.3	33-30	
"	67.3	39-30	
"	67.3	43-0	
"	66.5	46-30	

Plotted 6/22/21  
HRB



6/22/21

At 1485<sup>62</sup> - 353<sup>10</sup>R - Sight April 8 for Zoo R2 Pt

Red 50	7.98	1560.00	1555.01
1555	64.3 <del>63.8</del>	43-30 ✓	
	64.0	37-0 ✓	
	63.0	31-0 ✓	
	61.9	28-15 ✓	
	63.3	26-0 ✓	
	63.0	22-0 ✓	
	67.0	19-30 ✓	
	70.5	17-0 ✓	
	75.0	15-30 ✓	
Red 00	<del>75.0</del>	15-0	
1560	74.5	15-30 ✓	
	70.3	17-0 ✓	
	66.5	19-30 ✓	
	63.5	22-15 ✓	
	63.5	26-0	
	67.3	27-30	
	69.5	31-0	
	71.3	35-0	

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HRB

At 50-295.95 - Chained North

53.29

25°58'

1

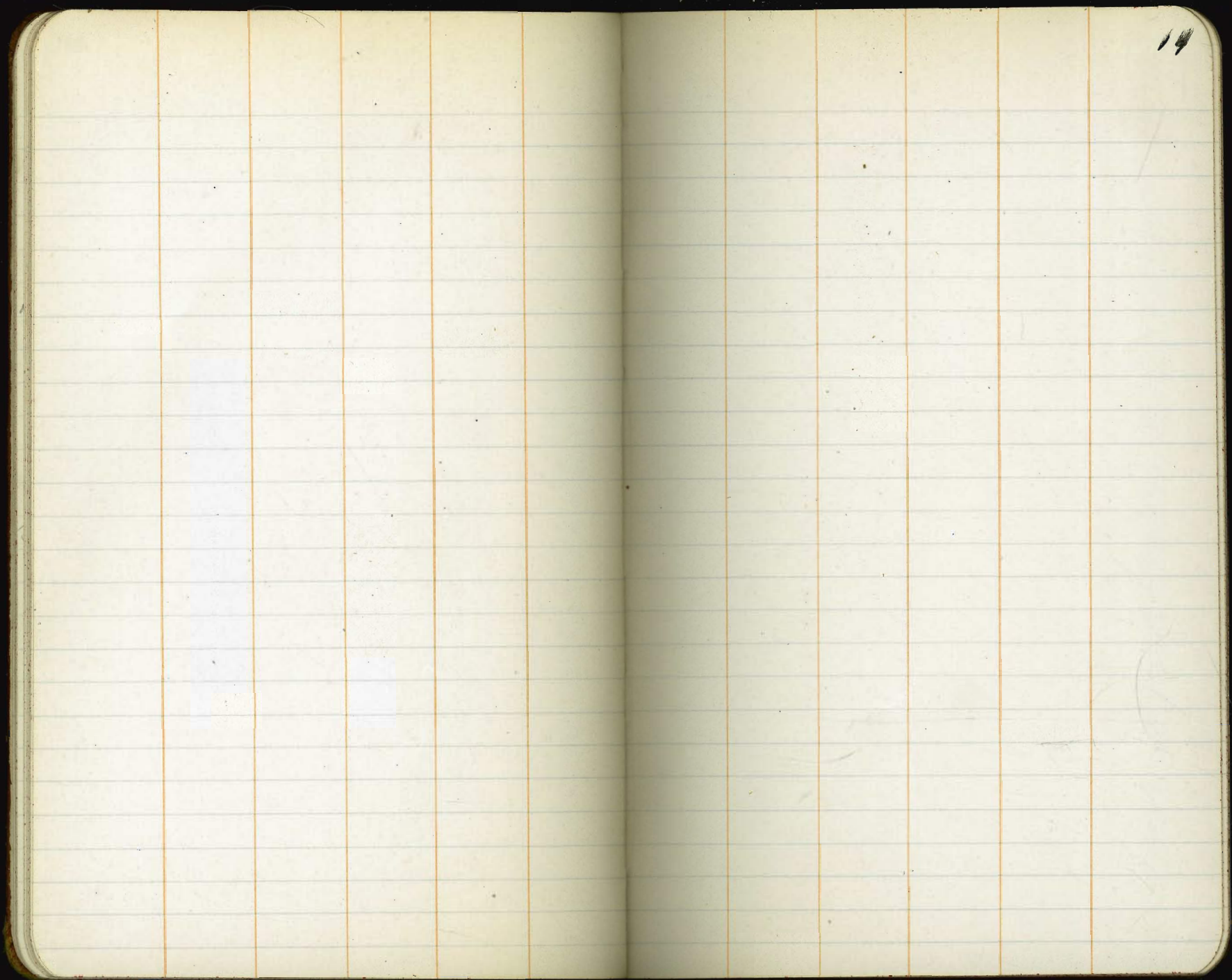
47.95 = 50-343.90























































































































Elevations of Coordinate Points  
+  
Reference Points.

Sta	Elev	Sta	Elev.
<b>"B" Line</b>		<b>"B" Line</b>	
<b>45572</b>		<b>450</b>	
12	1587.34	56	1550.34
14	1577.19	58	1559.53
16		60	1568.41
18	1557.81	62	1579.43
20	1545.11	64	1588.64
22	1534.73	66	1603.56
24	1525.30	68	1617.48
26	1503.85	70	1624.03
28		74	1650.44
30		<u>East Tangent.</u>	
32		<u>325 Line</u>	
34		60	1571.25
36		62	1582.59
38		64	1591.57
40		66	1602.58
42		68	1612.52
44	1489.94	70	1623.02
46	1502.68	72	1633.02
48	1512.78		
50		<u>300 Line</u>	
52-468 <sup>11</sup>	1532.83	60	1571.30
54-468 <sup>11</sup>			

Elevations of Coordinate 68  
+  
Reference Points.

Sta	Elev	Sta	Elev.
<u>East Tangent</u>		<u>Miscellaneous.</u>	
<b>275 Line.</b>			
60	1567.79	8-450	1601.89
62	1579.68		
64	1588.49	10-350	1576.97
66	1600.42	10-446 <sup>52</sup>	1597.77
68	1614.82		
70	1622.85	12-330	1570.96 BM
72	1633.30		
<b>250 Line</b>		12-426 <sup>32</sup>	1587.35
38	1491.47 (?)	12-437	1588.38
40	1496.25	12-45572	1587.34
42	1507.15	12-502 <sup>02</sup>	1600.83
44	1513.11		
46	1519.99	14-417.92	1575.02 + on rock
48	1526.28	14-436.25	1574.94 + on rock
60	1568.21	14-45579	1577.19 Hub
		14-495 <sup>10</sup>	1588.91 Nail in rock.
<u>Miscellaneous 5.</u>		RP & outlet	
		Tower	1581.45 Hub.
		16-4462	1567.82
6-470 <sup>65</sup>	1615.38	16-490 <sup>02</sup>	1577.99
		16-468	1572.94 BM.



Elevations of Coordinate  
+  
Preference Points.

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Station	Elev.	
18-303		
18-411.19	1548.30	Hub
18-438. <sup>09</sup>	1554.12	Hub
18-470 <sup>25</sup>	1561.57	Nail in Rock
18-488 <sup>0</sup>	1561.11	Hub.
18-502 17	1564.95	
2 Tunnel 0+20.08	1541.11	Hub
SW Cor. Outlet Tower Fillet	1524.18	Nail in concrete
SW Cor. Outlet Tower Fillet	1524.30	Nail in concrete.

# List of B.M.s

Harris B.M. Iron pin set in rock 40' south of Conyeror #2 - Barrett Dam Datum.	1626.33
End of "P" Line above Quarry road	1751.67
Nail in rock (west Cableway 30'n 3' stue)	1764.33
Nail in 2x8 North side Tunnel - "P" Line	1650.97
Nail 10-446 <sup>57</sup> End of steel Pipe Sewer Joint	1597.77
Nail in Stump 12-330	1570.96
Nail in Stump 16-468	1572.94
SW Cor Outlet Tower - Fillet - Nail	1524.18
NW " " " " "	1524.30
Top of Plumb rock East 34-329	1472.82
Nail near front face Dam outlet tower	1506.46
Nail in stump S.E. 11' of 52-468	1537.77
East Tangent East Centri Joint #3 Nail in rock	1509.38
about 7+60 Hub	1649.80
Nail in L. #4 near Centri Joint	1530.45
Nail in Rock 4+86.5	
Auxil from 5+88.2L	1512.86

## DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder  
stake for any width roadway, slope 1 1/2 to 1.  
If ground is nearly level, the cut or fill at side  
stake is located by the double entry method in  
left column and top row. The number in body

## IMPROVED TABLES

AND

## INFORMATION

TABLE No. 2.

To find Tangent and External for curve of  
any other degree, divide by degree of curve and  
add correction found in column of corrections.  
Degree of curve with a given  $L$  may be found  
by dividing tangent (or external), opposite  $L$  by  
given tangent (or external).  
The distance from a point on the tangent to  
the curve is very nearly the square of the tangent  
length divided by twice the radius.

