

Cross Sections & Slopes

India St.

TRANSIT BOOK

12

F.B. 602

N E

C =

SW

SE

+75

74.25

74.6

$-\frac{35}{25}$

-2.6

6.5

(10)

+50

72.50

74.33

$-\frac{17}{25}$

-1.4

2.7

(4)

+25

70.75

72.5

-0.6

(1)

2

69.00

70.66

+1.3

2.75

67.25

68.83

(15)

+50

65.50

67.00

+25

63.75

65.16

1

62.00

63.33

+75

60.25

61.50

+50

58.50

59.66

+25

56.75

57.83

0

55.00

56.00

+4.6

+3.4

+66

53.00

56.00

+3.0

-0.8

+40

51.50

53.50

+0.8

26.1

-0.3

$-\frac{65}{70}$

+14

54.00

55.00

+0.3

84.3

-9.8

$-\frac{11.6}{17.2}$

3

54.00

55.00

$-\frac{10}{15}$

-1.0

0.7

118.0

-11.8

$-\frac{18.8}{20}$

(115)

Laurel

	W	E	C	F	Cal	Cal
+ 75	888	908	-15.4	20.1	99.9	85
+ 50	878	898	-19.4	20.1	94.9	94
+ 35	868	888	-11.8	17	83	79
2	857	877	-5.8	4.7	-42	41
+ 75	846	866	-3.7	5.5	-29	18.3
+ 50	835	855	-1.0	1.2	-09	8.0
+ 35	824	844	12.1			4
1	813	833				0.7
+ 25	80.24	82.24				
+ 50	79.16	81.16				
+ 25	78.08	80.08				
0	77.0	79.0	10.5			
+ 66	77.0	79.0	-0.3			
maple + 40	76.5	78.5	-2.0	3.0	-14	2.1
+ 14	76.00	78.0	-3.9	5.8	-29	8.4
3	76.0	78.0	-5.1	7.5	-39	14.8

(11)

(315)

4

Olive

+67.3 = 3

N
999.0
E
1077.0CF
 $\frac{-36}{5.5}$
-2.5

Ea

Ea

6.9

6

10.5

10

10.5

8

5.8

9

13.1

13

16.1

15

16.7

15

16.5

11

999.0

98.5

97.7

97.0

96.2

95.5

94.7

94.0

+7.5

93.2

95.2

 $\frac{-61}{9.0}$

-4.4

19.8

+5.0

92.5

94.5

 $\frac{-2.5}{7.5}$

-3.8

14.2

+2.5

91.7

93.7

 $\frac{-4.2}{7.1}$

-3.7

13.1

0

91.0

93.0

 $\frac{-3.4}{5.7}$

-2.8

9

+6.6

91.0

93.0

 $\frac{-4.0}{8.0}$

-2.9

8.7

+4.0

90.5

91.5

 $\frac{-5.8}{9.7}$

-3.7

16.1

+1.4

90.0

92.0

 $\frac{-9.5}{14.2}$

-6.0

42.6

3

90.0

92.0

 $\frac{-13.3}{19.0}$

-8.8

83.6

Nutmeg

(77)

(131)

	N	E	C F	
+ 95	98.1	100.1	$\frac{-4.1}{7.0}$ -4.2	(12)
+ 50	98.2	100.2	$\frac{-4.1}{6.1}$ -3.3	(11)
+ 25	98.3	100.3	$\frac{-4.8}{6.5}$ -3.2	(9)
2	98.4	100.4	$\frac{-3.3}{5.0}$ -2.4	(8)
+ 75	98.5	100.5	$\frac{-3.8}{5.7}$ -2.9	(7)
+ 50	98.6	100.6	$\frac{-4.5}{6.8}$ -3.1	(9)
+ 25	98.7	100.7	$\frac{-4.8}{7.2}$ -3.0	(10)
1	98.8	100.8	$\frac{-5.2}{7.8}$ -3.5	(12)
				(17)

(152)

+ 45	98.9	100.9	$\frac{-4.5}{7.9}$ -4.6	(25)
+ 50	99.0	101.0	$\frac{-4.6}{7.4}$ -5.4	30.8
+ 32.1 211.0	99.0	101.0	$\frac{-8.0}{12.0}$ -5.7	(22)
^{1 1/2} + 22 = 113.0	99.0	101.0		34.2
0	99.0	101.0		(14)
+ 66	99.0	101.0	$\frac{-5.8}{8.7}$ -4.2	18.3
+ 40	99.0	101.0	$\frac{-3.9}{5.3}$ -2.8	(12)
+ 14	99.0	101.0	$\frac{-2.2}{3.3}$ -1.7	(5)
22 + 286	99.0	101.0		(2)

(33)

77

	N	E	C	F	(C)
+75	97.3	99.3	$\frac{-3.9}{5.8}$	-2.8	(10) 8.1
+50	97.7	99.7	$\frac{-5.1}{7.7}$	-3.5	(14) 14.0
+25	98.0	100.0	$\frac{-5.8}{8.7}$	-3.9	(17) 17.0
2	98.3	100.3	$\frac{-7.5}{11.2}$	-5.3	(22) 22.0
+75	98.7	100.7	$\frac{-6.7}{13.0}$	-5.8	(31) 31.7
+50	99.0	101.0	$\frac{-9.1}{13.7}$	-6.6	(38) 38.7
+25	99.3	101.3	$\frac{-7.4}{12.6}$	-6.1	(39) 39.4
1	99.7	101.7	$\frac{-10.4}{15.6}$	-7.4	(44) 44.7

(393)

Quince

+75	100.0	102.0	$\frac{-9.6}{14.4}$	-7.3	(56) 56.2
50	100.3	102.3	$\frac{-10.0}{15.0}$	-7.3	(51) 51.7
+25	100.7	102.7	$\frac{-10.0}{15.0}$	-6.9	(48) 48.7
0	101.0	103.0	$\frac{-6.8}{10.2}$	-5.0	(36) 36.7
+66			$\frac{-2.5}{7.3}$	-4.3	(14) 14.0
+46			$\frac{-7.0}{10.5}$	-4.9	(21) 21.7
+14			$\frac{-6.5}{9.8}$	-5.0	(24) 24.7
3	101.0	103.0	$\frac{-6.3}{9.9}$	-5.2	(13) 13.7

(78)

	N	E	C	F	
+ 75	85.0	87.0	$\frac{-20.2}{30.3}$	-11.8	(158) (5) 224.2 17.0
+ 50	86.0	85.0	$\frac{-23.0}{37.5}$	-19.9	(262) (50) 343.2 100.3
+ 25	87.0	89.0	$\frac{-24.5}{36.8}$	-22.1	(957) (155) 429.0 324.4
2	88.0	90.0	$\frac{-25.2}{37.8}$	-23.2	(402) (253) 438.5 313.3
+ 85	89.0	90.6	$\frac{-26.3}{39.5}$	-23.2	(415) (339.7) 458.2 249.2
+ 75	90.0	92.0	$\frac{-20.0}{30.0}$	-17.5	(334) (158) 362.5 91.8
+ 25	91.0	93.0	$\frac{-15.7}{23.5}$	-13.0	(192) (44) 152.7 13.4
1	92.0	94.0	$\frac{-12.5}{18.7}$	-10.5	(116) (7) 98.6 2.3

(3395)

Redwood

+ 75	93.0	95.0	$\frac{-10.2}{15.3}$	-7.2	551 +2.4
+ 50	94.0	96.0	$\frac{-9.7}{14.1}$	-7.2	(49) 50.1
+ 25	95.0	97.0	$\frac{-7.4}{11.1}$	-6.2	(39) 34.4
0	96.0	98.0	$\frac{-7.9}{11.5}$	-5.8	(33) 34.2
+ 66			$\frac{-5.2}{7.8}$	-5.6	(22) 14.0
+ 40	96.5		$\frac{-3.4}{5.1}$	-8.9	(10) 7.4
+ 14			$\frac{-3.9}{5.8}$	-2.9	(8) 5.4
25	97.0	99.0	$\frac{-3.2}{4.8}$	-2.1	(3) 5.0

(33)

	N	E	C	F	
+ 75	83.1	85.1	$\frac{-9.3}{14.0}$	-7.6	(59) 53.2
+ 50	83.2	85.2	$\frac{-8.5}{18.8}$	-1.1	(4) 45.4
+ 25	83.2	85.2	$\frac{-8.9}{18.4}$	-6.9	(42) 46.2
2	83.3	85.3	$\frac{-6.5}{9.8}$	-5.7	(34) 46.2
+ 75	83.4	85.4	$\frac{-6.5}{9.8}$	-4.4	(26) 47.9
+ 50	83.5	85.5	$\frac{-6.4}{9.6}$	-4.4	(20) 47.1
+ 25	83.6	85.6	$\frac{-6.0}{9.0}$	-4.3	(19) 49.3
+ 0	83.6	85.6	$\frac{-6.5}{9.8}$	-4.6	(19) 42.8

(347)

Spence

+ 75	83.7	85.7	$\frac{-5.1}{9.0}$	-4.4	(19) 41.6
+ 50	83.8	85.8	$\frac{-6.5}{9.8}$	-4.7	(19) 33.0
+ 25	83.9	85.9	$\frac{-6.0}{9.0}$	-4.4	(20) 39.8
0	84.0	86.0	$\frac{-8.6}{9.9}$	-4.7	(30) 23.2
+ 166			$\frac{-6.9}{12.4}$	-5.3	(13) 27.6
+ 140			$\frac{-9.0}{13.5}$	-6.1	(33) 41.1
+ 14			$\frac{-12.5}{18.4}$	-8.7	(59) 41.8
+ 0	84.0	86.0	$\frac{-14.8}{22.2}$	-10.5	(51) 116.5

(156)

+1.4

	N	E	C F	✓
75'	86.7	88.7	-15.2 28.8	(96) 102.6
+30	86.3	88.3	-16.0 27.0	(100.0) 114.0
+25'	86.0	88.0	-14.5 21.9	(92) 95.5
2	85.7	87.7	-14.6 21.9	(92) 107.3
+75'	85.3	87.3	-14.2 22.0	(101) 111.1
+50	85.0	87.3	-14.2 21.3	(100) 105.4
+25'	84.7	86.7	-13.5 20.3	(94) 97.4
1	84.3	86.3	-12.5 18.9	(86) 88.3
+75'	84.0	86.0	-12.8 19.2	(82) 90.2
+50	83.7	85.7	-12.2 18.3	(79) 81.4
+25'	83.3	85.3	-11.4 17.1	(69) 67.5
0	83.0	85.0	-10.7 16.1	(63) 69.2
+66			-11.9 12.8	(40) 84.5
+40			-15.1 22.6	(100) 124.1
+14			-14.1 21.1	(122) 124.7
+0	83.0	85.0	-10.2 15.6	(53) 93.3

(329)

(1056)

	W	E	C	F	
+75	824	844	-10.4	-5.6	(50) 43.9
+50	828	848	-9.0	-5.4	(37) 36.4
+25	832	852	-7.5	-4.6	(24) 26.0
2	837	857	-8.1	-4.5	(25) 27.2
+75	841	861	-9.0	-4.9	(28) 23.0
+50	845	865	-9.3	-5.5	(33) 33.2
+25	849	869	-11.1	-6.2	(42) 42.7
1	853	873	-11.4	-6.7	(50) 51.7
			-12.1		(55) 57.3

(574)

Tihom 31

	W	E	C	F	
+75	857	877	-11.4	-7.1	(60) 60.7
+50	862	882	-12.2	-7.6	(69) 69.5
+25	866	886	-13.9	-9.0	(75) 73.6
0	870	890	-14.1	-9.5	(90) 90.7
+66			-14.2	-9.2	(51) 88.0
+40			-13.0	-8.8	(88) 85.8
+14			-13.2	-9.4	(86) 93.0
3+0	870	890	-14.4	-9.1	(49) 97.8

(274)

	W	E
+75	76.1	78.1
+50	75.2	77.2
+25	74.2	76.2
	73.3	75.3
+75	72.4	74.4
+50	71.5	73.5
+25	70.6	72.6
	69.7	71.7

-0.9

Chalmer St.

+75	68.7	70.7
+50	67.8	69.8
+25	66.9	68.9
0	66.0	68.0
+66		
+40		
+14		

-0.8

-0.6

+0.2

+0.1

+0.5

-0.1

-0.7

-1.6

-1.2

1.4

Winkel 2h

0

+66

+40

+14

9

770 790

770 790

W
E

2x2 box at 3+60 Patm 135' long

Sassafras

2+0
7+80 E. 2+0 W 2x2 box 145' long

This Cañon shows no wash + a 1x2 box
in RR has carried off all water

small box at 3+14 Sassafras 112'
on account of low intersection

Upon
0 W

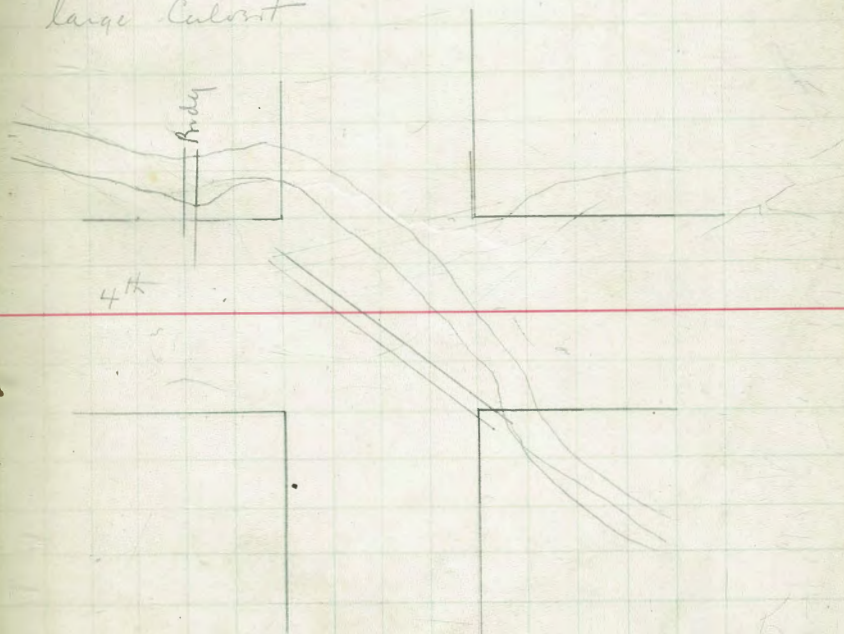
0+25 E 2x2 box. Cañon extends back
only a short dist + shows no
sign of wash RR has 1x3 box

but Vine + Miller's ^{short} small Cañon showing no wash
RR has box near top of fill which
has carried no water

At 3+0 Chalmsur can carry all water
coming down

At St beyond Winder. RR has 24' opening
with 7' Waterway

At 3+20 on E to O on W Harrothy St
large Culvert



Sta	T	H ₀		Bl- N Bush	cal from center	center	cal from center	from center
Apr.	2.02	48.08	46.01	Blm 1 & 2	cal from center	cal from center	cal from center	cal from center
0 SE line of - Bl				Blm 1 & 2	cal from center	cal from center	cal from center	cal from center
+25				27.2	80	48.0	40.0	55
				10.8	8.9	39.1	70	42.5
				12.2	48.0		41.0	
#	1.37	39.81	10.19	39.2	10.5	37.5	48.0	
+50				3.9				
+57				Anticipation of Buck line stand Bl				
+75				4.2	39.2	36.4	1.0	38.2
1				55.8	4.4	34.8	1.9	37.8
+25				10.1	7.2	32.0	2.2	37.0
+50				14.0	10.4	28.8	2.7	36.5
#	4.87	32.32	11.76	32.3	13.8	25.9	4.0	35.2
+75				12.6	39.8			
#	0.39	20.96	11.75	21.0	32.3			
2				9.1	9.6	22.7	1.9	30.4

+25				11.9	21.0	8.0	16.0	13.3	18.8	32.3	10.9	21.4
2+50				13.8	7.2	18	4	4.7	16.3	7.9	13.1	
+75				13.1	7.9	6.1	26	6.7	14.3	14.2	6.8	
3				10.5	10.5			8.4	18.6	15.5	5.3	
Apr.				1.04	19.92							
3+25				0.15	20.1							
+50						13.1	15.5	9.5	11.5	15.9	5.1	
+75						10.9	11.8	9.2	11.8	13.0	6.0	
4						8	11.7	9.3	11.7	9.6	11.4	
#	1.47	13.16	9.27			13.2	18.0	9.0	12.0	9.5	11.5	
+25						10.2	12.2	1.0	13.2	11.7	11.3	
+50						11.3	10.4	2.8	10.4	11.9	11.8	
+75						8	10.4			3.0	10.2	

Cross of Section of Star

North E

Centre E

South W

Sta	T	H0	-	Obs										
0	2.38	5.11		2.78	9.2	-4.1	$-\frac{4.5}{15}$	$\frac{0.8}{9}$	1.1	+4.0	$+\frac{3.8}{9}$	$-\frac{2.9}{15}$	7.2	-2.1
1	✓				9.2	-4.1	$-\frac{4.1}{15}$	$\frac{+0.3}{9}$	4.2	+1.0	$\frac{+0.8}{9}$	$-\frac{1.9}{15}$	8.0	-2.8
2					7.7	-2.6	$-\frac{4.2}{15}$	$-\frac{0.1}{9}$	5.1	+0.1	$\frac{0.0}{9}$	$-\frac{2.5}{15}$	7.8	-2.6
3					8.1	-2.9	$-\frac{3.8}{15}$	$\frac{+1.2}{9}$	5.2	0.0	$-\frac{0.2}{9}$	$-\frac{2.9}{15}$	7.9	-2.7
4					7.0	-1.8	$-\frac{1.9}{15}$	$\frac{0.7}{9}$	4.8	+0.4	$\frac{0.1}{9}$	$-\frac{2.8}{15}$	8.1	-2.9
5					7.1	-1.9	$-\frac{4.0}{15}$	$\frac{+0.4}{9}$	4.9	+0.2	$-\frac{0.2}{9}$	$-\frac{2.9}{15}$	7.2	-4.1
6					2.78	-3.6	$-\frac{4.3}{15}$	$\frac{+0.2}{9}$	5.5	-0.4	$-\frac{0.1}{9}$	$-\frac{4.9}{15}$	10.4	-5.3
7					8.7	-3.6	$-\frac{4.0}{15}$	$\frac{+0.4}{9}$	5.1	0.0	$-\frac{0.4}{9}$	$-\frac{3.2}{15}$	7.7	-2.6
8					9.5	-4.4	$-\frac{4.1}{15}$	$-\frac{4.1}{15}$	9.6	-4.5				
9					9.2	-3.1	$-\frac{3.6}{15}$	$\frac{+0.1}{9}$	5.1	0.0	$-\frac{0.4}{9}$	$-\frac{3.2}{15}$	7.7	-2.6
10					8.1	-3.0	$-\frac{4.2}{15}$	$\frac{+0.4}{9}$	5.1	0.0	$-\frac{0.4}{9}$	$-\frac{3.2}{15}$	7.7	-2.6
11					7.8	-2.6	$-\frac{3.9}{15}$	$\frac{+0.1}{9}$	4.7	+0.4	$\frac{+0.1}{9}$	$-\frac{2.4}{15}$	7.5	-2.4
12					7.7	-2.6	$-\frac{3.9}{15}$	$\frac{+0.1}{9}$	4.7	+0.4	$\frac{+0.1}{9}$	$-\frac{2.4}{15}$	7.5	-2.4
13					7.4	-2.3	$-\frac{2.2}{15}$	$\frac{+0.9}{9}$	4.7	+0.4	$\frac{+0.1}{9}$	$-\frac{2.5}{15}$	7.5	-2.4
14					7.4	-2.3	$-\frac{1.9}{15}$	$\frac{+0.6}{9}$	4.6	+0.5	$\frac{+0.1}{9}$	$-\frac{2.5}{15}$	7.5	-2.4
15					7.4	-2.3	$-\frac{2.5}{15}$	$\frac{+0.6}{9}$	4.6	+0.5	$\frac{+0.2}{9}$	$-\frac{2.0}{15}$	7.2	-2.1
16					7.3	-2.2	$-\frac{2.9}{15}$	$\frac{+0.8}{9}$	4.6	+0.5	$\frac{+0.2}{9}$	$-\frac{2.0}{15}$	7.2	-2.1

Rigid St

Sta	T	H0	-	Obs						
0					9.2	-3.1	$-\frac{4.0}{15}$	$-\frac{4.0}{15}$	9.6	-4.5
1					8.1	-3.0	$-\frac{4.2}{15}$	$\frac{+0.4}{9}$	5.1	0.0
2					7.8	-2.6	$-\frac{4.2}{15}$	$\frac{+0.4}{9}$	5.1	0.0
3					7.7	-2.6	$-\frac{3.9}{15}$	$\frac{+0.1}{9}$	4.7	+0.4
4					7.4	-2.3	$-\frac{2.2}{15}$	$\frac{+0.9}{9}$	4.7	+0.4
5					7.4	-2.3	$-\frac{1.9}{15}$	$\frac{+0.6}{9}$	4.6	+0.5
6					7.4	-2.3	$-\frac{2.5}{15}$	$\frac{+0.6}{9}$	4.6	+0.5
7					7.3	-2.2	$-\frac{2.9}{15}$	$\frac{+0.8}{9}$	4.6	+0.5
8					7.3	-2.2	$-\frac{2.9}{15}$	$\frac{+0.8}{9}$	4.6	+0.5
9					7.2	-2.1	$-\frac{2.0}{15}$	$\frac{+0.2}{9}$	4.6	+0.5
10					7.2	-2.1	$-\frac{2.0}{15}$	$\frac{+0.2}{9}$	4.6	+0.5
11					7.1	-2.0	$-\frac{2.0}{15}$	$\frac{+0.2}{9}$	4.6	+0.5

Cross Section of

of the

South West

	H ₀	-	Obs	R	E	R	E	R	E
2x50	5.89			4.6	0.8	4.4	1.6		
3				4.4	0.9	4.3	1.1		
+50				4.8	0.6	4.5	0.9		
4				4.6	0.8	4.8	0.6		
#	9.26	14.04	11.11	4.28					
5				8.5	5.5	1.9	2.1	1.3	1.0
+50				8.1	5.9	8.5	5.5	8.5	5.5
6				5.3	8.7	5.3	8.7	5.1	8.9
+30				3.7	10.3	3.7	10.3	4.7	9.3
center of				3.4	10.6			4.1	9.9
0				2.8	11.2			3.4	10.6
+50				1.9	12.1			1.6	12.4
Bm	2.12	11.82							
#	7.88	21.04	0.88	13.16					

3.5 SE corner of

1				5.9	15.1	7.0	14.0	7.0	14.0
+50				6.4	14.6	5.5	15.5	5.2	15.8
2				5.2	15.8	5.1	15.9	5.0	16.0
+50				5.1	15.9	5.0	16.0	4.9	16.1
3				5.4	15.6	4.7	16.3	4.1	16.9
+50				5.4	15.6	4.9	16.1	4.4	16.6
4				5.8	15.2	5.8	15.2	3.3	17.7
+50				6.5	14.5	6.4	14.6	5.5	15.5
5				6.8	14.2	7.2	13.8	7.0	14.0
+50				6.3	14.7	7.4	13.6	7.5	13.5
6				6.5	14.5	7.1	13.9	8.1	12.9
+30						7.5	13.5	7.7	13.3
center line									
Alma St				6.0	15.0				

(21.0)

(14.0)

(5.4)

ms 1504

Clark Section of the

		H0	-	Blue	North E	Center	South West
0	3	21.04				21.03	
#	5.68	18.79	7.93	13.11	6.2	14.8	7.6
+50						18.8	13.4
1						5.4	13.4
+50						5.2	13.6
2						5.5	13.3
+50						5.2	13.6
3						5.0	13.8
+50						4.3	14.7
4						5.1	13.7
+50						5.0	13.8
5						4.3	14.5
+50						4.3	14.5
6						3.4	15.4
+50							3.4

		H0	-	Blue	North E	Center	South West
0						1.0	17.8
#	4.50	22.00	1.29	17.50	0.2	18.6	1.1
+50						2.2.03	
1						3.9	18.1
+50						3.2	18.8
2						3.1	18.9
+50						4.3	17.7
3						6.0	16.0
+50						7.9	14.1
4						8.8	13.2
+50						9.6	13.0
6						2.1	16.7
+50						1.4	17.4
7.80						1.6	17.2
Centers Breakfast						1.1	17.7
0						3.8	18.2
#						3.3	18.7
+50						3.3	18.7
1						4.1	17.9
+50						6.1	15.9
2						7.1	14.9
+50						7.1	14.9
3						9.6	12.4
+50							9.6

Sum Section of Ave

	H.O	Blw	N. East E	cont B	S. West E
2	8.36		4.6	4.6	3.8
4.50			3.9	4.8	3.6
3			4.3	4.3	4.1
+50			2.0	2.9	5.5
#	8.22	13.40	3.19	5.19	13.14
4			3.3	5.3	8.11
+21.4			0.4	1.6	6.8
+50			0.3	1.6	4.9
+77.68			13.1	11.8	6.6

100

Sta	+	H ₂ O	-	Eller	Center	Right	Cut
B.M.	5.93	50.55		44.62			
B.M.		5.05		45.50			
0		Angle in Transit 84					
1			4.7	7.3	6.6	44.0	5.3
2			8.7	4.9	7.9	42.7	4.9
3			4.19	40.3'	42.7	44.0	4.9
4			40				
5			11.7	38.9	9.0	41.6	7.2
6			12.1	38.5	11.5	39.6	4.3
7			9.5	30.9	8.5	31.9	10.2
8			28.9		28.9	32.6	28.4
9			8.9	20.8	41.1	24.8	36
10			18.3		28.9	10.0	34
11			8.3	10.0	11.0	16.0	33.0
12			7.0		18.9	18.8	19.5
13			11.1	16	18.3	9.0	11.3
14			11.1	7.5	4.2	14.1	7.2
15			14.8		6.6	11.7	10.4
16			2.8	16.3	11.3	11.7	7.9
17			7.0	26.6	6.1	12.1	6.1
18			2.0	3.6	9.7	6.2	12.1
19			9.7	18.0	9.7	6.2	4.3
20			7.8	1.9	4.9	4.8	5.4
21			11.0	1.3	4.9	4.8	5.1
22			11.0	1.0	5.3	4.4	4.6
23			18	17.0	183	12.0	13.2
24			8.0	2.0	5.3	4.4	3.5
25			4.0	4.0	5.2	4.3	4.3
26			8.0	2.0	5.2	4.3	4.3
27			5.1	4.6	5.1	4.6	4.3
28			10	14.6	10	14.6	4.3
29			12.8	5.1	12.8	5.1	2.9
30			2.72	2.72	2.72	2.72	2.9

Left
Right

Center
Right
Cut

Dist
E.P.M.

Bank on B. vertical to level
% center south of P157

End of Bridge
Backhead of

End of Bridge
Backhead of

Top of Road near Mouth of bridge

	Sta	Left	Section	Right	End	Area	Cur	Width
0		$\frac{12}{-0.3}$	x	$\frac{12}{+0.6}$	3.6	-	152.2	-
1		$\frac{12.0}{+2.6}$	x	$\frac{12.0}{+4.5}$	78.6	-	152.2	-
2		$\frac{12.0}{+4.9}$	+6.3	$\frac{12}{+7.2}$	148.2	-	420.0	-
3		$\frac{12.0}{+9.8}$	+8.1	$\frac{12.0}{+8.7}$	196.2	-	687.8	-
4		$\frac{12.0}{+3.7}$	+5.2	$\frac{8.0}{+5.9} \frac{12}{+8.4}$	127.8	-	600.0	-
+60		$\frac{12.0}{-1.7}$	+0.7	$\frac{12.0}{+0.7}$	8.4	2.8	151.3	-
5		$\frac{12}{-8.7} \frac{12}{-8.7}$	-3.4	$\frac{12.0}{-8.5} \frac{17.2}{-3.5}$	161.8	-	122.0	-
+30		$\frac{31}{-12.6} \frac{12}{-9.3} \frac{6.0}{-6.9}$	-6.0	$\frac{9.0}{-6.0} \frac{12.0}{-9.0} \frac{31.5}{-13.0}$	333.5	-	508.5	-
6		$\frac{24}{-6.7} \frac{12}{-6.7}$	-6.3	$\frac{12}{-6.3} \frac{21.4}{-6.3}$	222.9	-	515.2	-
+70		$\frac{12}{+22.5} \frac{2}{+22.5}$	-1.6	$\frac{12}{-1.6} \frac{14.4}{-1.6}$	970.0	21.1	451.9	-
7		$\frac{12}{-0.8} \frac{12}{-0.8}$	-2.7	$\frac{12}{-3.5} \frac{16.2}{-3.5}$	65.6	-	144.4	-
8		$\frac{13.1}{-6.1} \frac{12}{-6.1}$	-4.5	$\frac{12}{-4.5} \frac{18.7}{-4.5}$	154.3	-	40.7	-
+25		$\frac{18.3}{-4.2} \frac{12}{-4.2}$	-2.9	$\frac{12}{-3.9} \frac{28.8}{-11.2}$	178.7	-	154.2	-
9		$\frac{25.5}{-9.0} \frac{8.0}{-9.0} \frac{7.0}{0.0}$	0.0	$\frac{12.0}{-0.7} \frac{16}{-1.2}$	160.0	-	470.0	-

Note to be cut off on East side of Rk
 average cut about 15' over area 20 x 100 =
 2000 yds x 15' = 30000 cu yds of granite 8000 15000

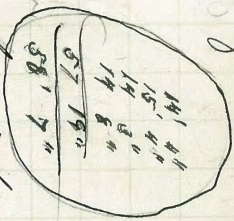
$\frac{-1961.3}{1500}$
 3461.3
 2406.9

across flat filling on right side of road way
 average fill 4.0 width 7.0 side slope 2-1
 $4 \times 7 = 28 + 4 \times 8 \div 2 = 44$ cu yds
 Total long the from bridge to RR 820' $\times 44 \div 27 =$
 1336 cu yds - to be filled

Summary

cut between Topshus Ave and Bridge	1961.0	cu yds
" in hill near bridge	1500.0	"
Total cut	<u>3461.0</u>	"
Fill between Topshus Ave and Bridge	2407.0	cu yds
" " Bridge and embank RR	<u>1386.0</u>	"
Total fill	3793.0	"
Short on fill	282	cu yds

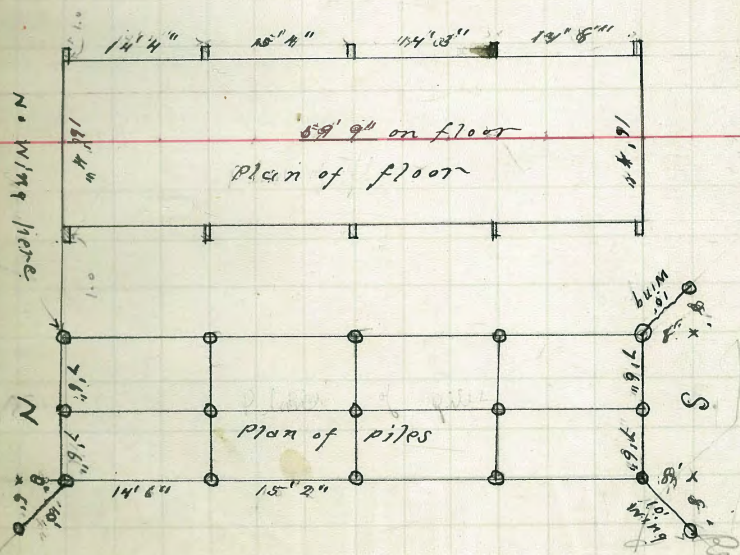
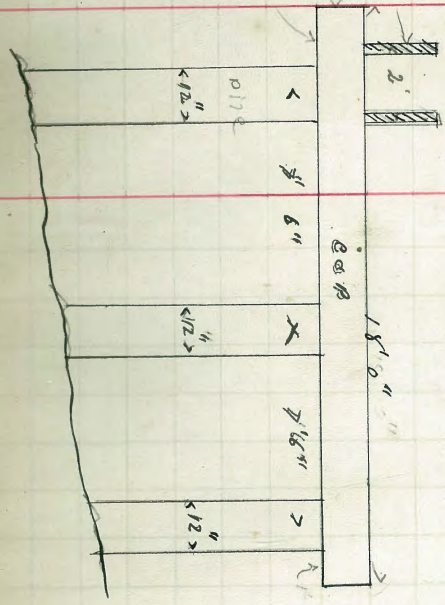
Plan of Old Bridge at Putrook



58
15
73
14
87

Ground plan - i.e. of the
thickness of 3" planks; caps 10" x 10" x 8"
Piles are about 12" in diameter

height 3' 11"
caps again
10" x 10"



All of the wing falls and more of the piles under bridge are
fairly sound, steel beams were repaired by bolting
around them and filling bet with concrete; and the
remaining there are in bad shape.

Wambani,
Apr 17. 1853

+

H₂

-

Blur

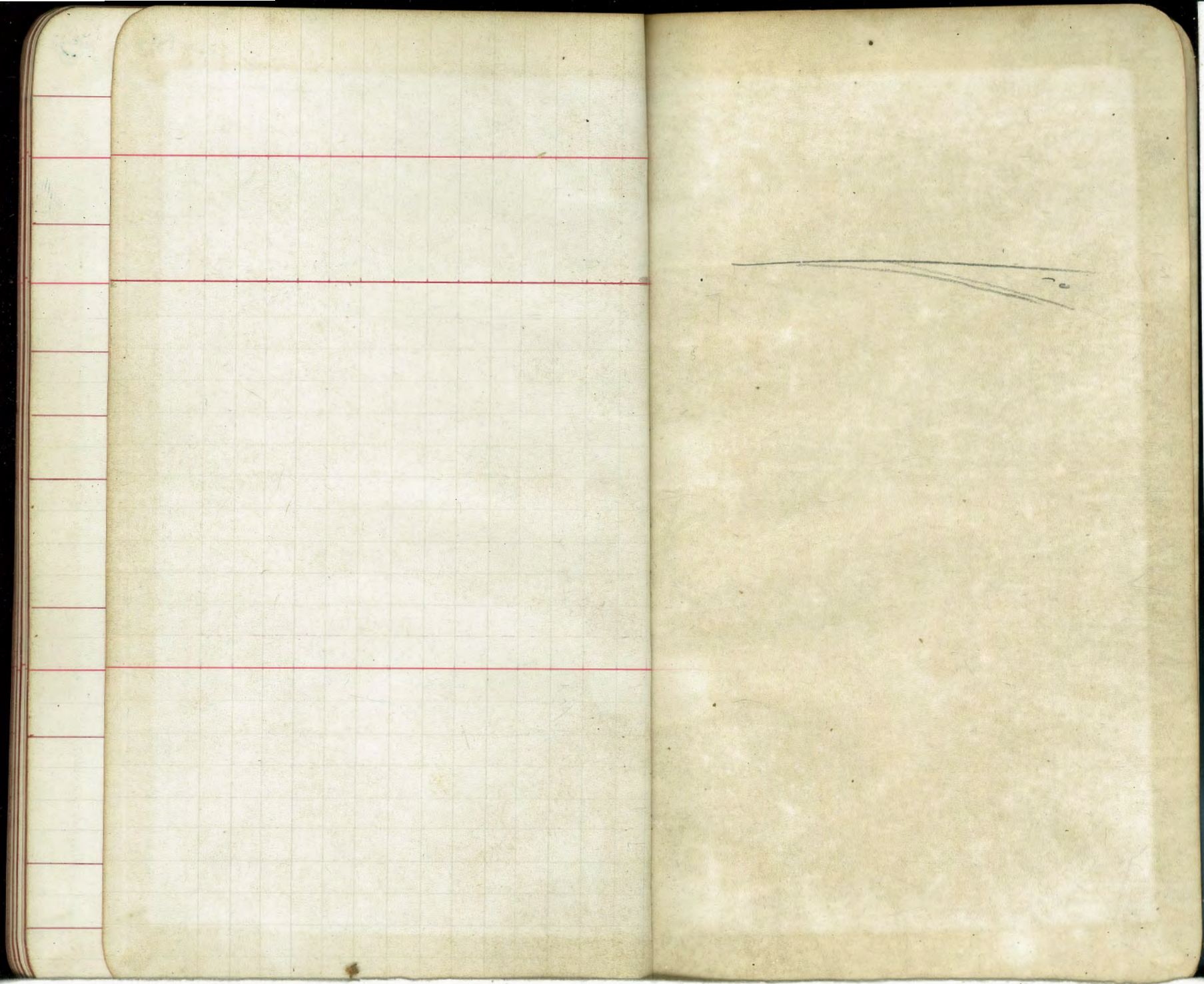
N. East
Road

from center
Road out

Center
Road

from center
Road out

S. West
Road



TRAVERSE TABLE FOR TRANSIT BOOK,
From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	86
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	87
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	88
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	89
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	90
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	91
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	92
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	93
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	94
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	95
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	96
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	97
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	98
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	99
14	97.08	24.19	96.92	24.62	96.81	25.04	96.70	25.46	100
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.

4+65.3
2119
4+873
90
500
717
49 2.5