

F. B. 717

717

able showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes.	Lks.	Minutes.	Lks.	Minutes.	Lks.
1	2½	21	49	41	95½
2	4½	22	51½	42	98
3	7	23	53½	43	100½
4	9½	24	56	44	102½
5	11½	25	58½	45	105
6	14	26	60½	46	107½
7	16½	27	63	47	109½
8	18½	28	65½	48	112
9	21	29	67½	49	114½
10	23½	30	70	50	116½
11	25½	31	72½	51	119
12	28	32	74½	52	121½
13	30½	33	77	53	123½
14	32½	34	79½	54	126
15	35	35	81½	55	128½
16	37½	36	84	56	130½
17	39½	37	86½	57	133
18	42	38	88½	58	135½
19	44	39	91	59	137½
20	46½	40	93½	60	140

MICROFILMED

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Table for Running on Slopes.

In the following table the first column shows the angle, the second, the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

Angle.	Cor. in links	Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.
0		0		0		0	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07

50 4/4 50 1/2
50 3/4 50 1

Para mite City 1625
Pis. Goldsmith
Dun City 1710
900

12 11 109 270 40 21 8 13 55

15 0

Trust + families of
no water

10 240
10 15
15
775 to 45 1000
50-1/2
1000

2 25
4 1/2 gm for plank
Tank

1042 1/2
10 1/2
10,0 1/2

Stock used in repairing Sewer on Atlantic Street bet C & D

Jan 1st to the

one Bbl Cement

" Carting of Cement

16000 Gallons of water used. Extra
in flushing out Sewer there
being sand in Sewer

7 1/2 animal Pellets

$$\begin{array}{r} 454 \\ 35 \\ \hline 489 \\ 12 \\ \hline 501 \\ 20 \\ \hline 521 \\ 12 \\ \hline 533 \\ 43 \\ \hline 576 \\ 70 \\ \hline 646 \end{array}$$

$$\begin{array}{r} \$400 \\ 50 \\ \hline \end{array}$$

$$\begin{array}{r} 1270 \\ 20 \\ \hline 1290 \\ 10 \\ \hline 1300 \\ 10 \\ \hline 1310 \\ 10 \\ \hline 1320 \\ 10 \\ \hline 1330 \\ 10 \\ \hline 1340 \\ 10 \\ \hline 1350 \\ 10 \\ \hline 1360 \\ 10 \\ \hline 1370 \\ 10 \\ \hline 1380 \\ 10 \\ \hline 1390 \\ 10 \\ \hline 1400 \end{array}$$

Sewer Repairs on Atlantic Street bet C & D

Jan 4th to the

L. Arnold
 Allson
 M^r. Donmitt

1 1 1 1 1
 1 1 1 1 1
 1 3/4

Days
 "

Faint handwritten notes

15 152

12
 6
 76
 6
 82

Faint handwritten notes and diagrams on the right page

7½ Gallons of Water to
100 lbs of Fat

May 20th
13th said but Fat 9
found Fat is in
oil 32.2% of
the whole
with average

Sta	cut			
+80	7	8 ³ / ₄	8	20
+60	7	4 ⁵ / ₈	8	19
+35	9	2. mat down		18+
72+10	7	1 ¹ / ₂	7	19
+85	6	6	7	16
+60	5	10 ³ / ₄	6	15
+35	5	0 ¹ / ₄	+7	14
71+10	4	11 ¹ / ₄	6	13
+85	5	5 ³ / ₄	5	12
+60	5	5 ³ / ₄	4	11
+35	5	8 ⁷ / ₈	4	10
70+10	6	1	4	9
+85	5	9 ⁷ / ₈	4	8
+60	5	0 ¹ / ₂	4	7 out
+40	8	5 ⁵ / ₄	4	6
+20	4	15 ¹ / ₄	4	5
69	5	10 ¹ / ₄	+7	4
+80	6	7 ³ / ₄	4	3
+55	7	0 ¹ / ₂	7	2
68+50	5	11 ⁷ / ₈	1	1

S. line Ralmia St

N. line Juniper St

Juniper St

S. line Juniper St

50 S Juniper St

+40	4	9/2		35
76+15	5	11 3/4		34
+90	6	5		33
+65	5	10 1/4		32
+40	5	2 3/4		31
75+15	4	7/8	+	30
+90	4	4		29
+65	4	0 3/4		28
+40	4	0	0	27
74+15	4	2 3/8		26
+90	4	4 1/8	+	26
+65	5	4 7/8		24
+40	7	0		23
+20	7	3 3/8		22
73	7	6 7/8	21	21

S Line Laurel St

X

N Line Kalmia St

Kalmia St

on Atlantic St holes cut
in main line

Distance of each one
North of main hole 37 feet
South of main hole No. 1 10 "
" " " No. 2 24 "
" " " No. 3 37 "
" " " " 430 "
" " " " 531 "
" " " " 639 "
" " " " 766 "
" " " " 860 "
" " " " 959 "

4
4
4
4
4
4
4

~~4
4
4
4
4
4
4~~

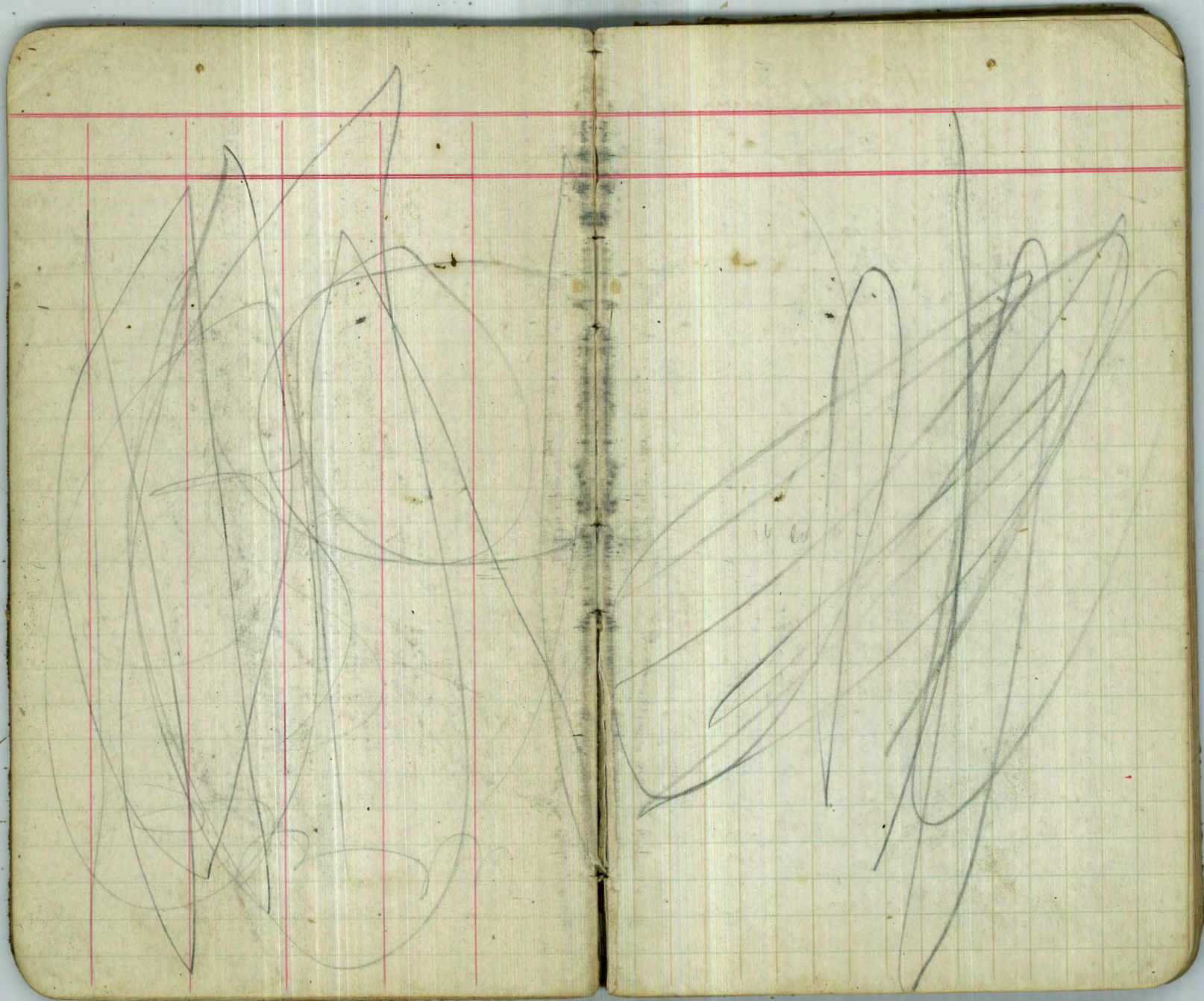
Front street 1/2 from Juniper

W	E	W	E	W	E
	72+09				
72+07			74+40 1/2		
	71+60 1/2	74+38 1/2			
71+58 1/2			73+89		
	71+10	73+87			
71+08			73+89	76+35	First Tank
	70+59	73+37		76+30	This 1/4 th of is taken and runs up Laurel St East to corner.
70+57		72+81	6 th of lot	76+28	lot on First street, Cap. Mays
	70+10			75+90	
70+08		South Inspection 72+60	75+88		House west side
	69+60	North line of property Juniper street			
69+58					
	69+02	6 th of running north for Juniper Street			
68+80		Inspection south line of property			
			75+40		
			75+38		
			74+90	x Taken up	East
			74+84		
			74+93	Extra 1	

Front street

~~277~~ 288 Jan

Feb 277



5 1/2 ft main sewer relaid

Sta		cut	Depth	inches	Board	Rod
66+40	1	7	7 7/8"	4 1/2	8	
+60	2	7	7 3/8"	4 1/2	8	
+50	3	7	6 3/4"	5 1/4	8	
77+0	4	7	6	9	8	
+20	5	7	4 5/8"	9 3/8	8	
+45	6	7	2 5/8"	9 7/8	8	
+70	7	6	11	1x10	8	
+95	8	6	8 3/8"	9 5/8	7	
78+20	9	6	3 3/8"	8 3/4	7	
+45	10	5	11 3/4"	1 1/4	9	
+70	11	5	11 3/4"	1 1/4	7	
+95	12	6	1 1/8"	10 7/8	7	
89+20	13	6	2 1/2"	9 1/2	7	
+45	14	6	6 3/4"	5 1/4		
+70	15	6	9 1/2"	2 1/2	7	
+95	16	7	2 3/8"	Below board		
90+20	17	7	6	6	X	
+40	18	7	8 1/2"	3 1/2		
+60	19	7	7 5/8"	4 3/8		
+80	20	7	7 1/2"	4 1/2		
91+0	21	7	6 3/4"	5 1/4		

Inspection 4' 3" deep
S line of Juniper St

Center of Juniper St

N line of Juniper St



4 2
2 4
2 10 1/2

Inspection 5' 9" deep
South line of Holmes St S. Line

Center of Holmes St

N line of Holmes St

5th Street

14-6
10

22 25
15

528

Sta	Cuts		Boned Rod
	Feet	Inches	
+25	7	6 1/4	22
+50	7	7 3/4	23
+75	7	7 3/8	24
82+00	7	8 3/8	25
+25	7	9 3/8	26
+50	7	7	27
+75	7	5 5/8	28
83+00	7	4 5/8	29
+25	7	1 3/4	30
+50	7	0 7/8	31
+75	7	2 1/4	32
84+00	7	1 3/4	33
+20	7	1 7/8	34
+40	7	1 3/4	35
+60	7	1 3/4	36
+80	7	0 3/8	37
85+05	6	11 5/8	38
+30	7	1 3/4	39
+55	7	4 3/4	40
+80	7	5 5/8	41
86+05	7	2 5/8	42

X
Out

X

Inspection 6' 3"
South Line of Laurel Street
Laurel St
North Line of Laurel St

5th Street

Sta	Leats		Board Rod
	Feet	Inches	
+30	7	1 7/8	43
+55	7	2 1/4	44
+80	7	1 1/4	45
87+05	7	0 1/4	46
+30	6	10 1/8	47
+55	6	8 3/4	48
+80	6	8 1/4	49
88+0	6	5 3/8	50
+20	6	3 1/2	51
+40	6	1 7/8	52
+60	5	8 3/4	North Maple
+85	5	11 3/8	54
89+10	5	3/4	55
+35	5	10 1/8	56
+60	5	9 5/8	57
+85	5	9 7/8	58
90+10	5	10 3/4	59
+35	5	9	60
+60	5	8 1/8	61
+85	5	8 1/4	62
91+10	5	8	63
+35	5	9	64

7 0

Bepth of Inspection 6' 9"

South Line of Maple Street

Maple Street

North Line of Maple St

5th Street

Sta	Center		Board	Rod
	Feet	Inches		
91+60	5	10 7/8	65	
+80	5	10 1/2	66	
92+0	6	1 3/4	67	
+20	6	2	68	
+40	6	3 1/4	69	+
+65	6	7 1/8	70	.
+90	6	7 1/2	71	
93+15	6	8 1/8	72	
+40	6	10 1/2	73	
+65	7	13 5/8	74	J
+90	7	0 1/8	75	
94+15	6	11 7/8	76	
+40	7	2 5/8	77	
+65	7	0 3/8	78	
+90	7	1 1/8	79	
95+15	6	11 5/8	80	
+40	6	9 1/4	81	+
+60	6	7 1/4	82	.
+80	6	5 3/4	83	
96+0	6	2 5/8	84	
+20	6	1 1/8	85	

Depth of inspection 5' 3"

South Line of Nutmeg St

Center of Nutmeg St

North Line of Nutmeg St

X
Over

Depth of Inspection 6' 0"

X
South Line of Olive St

Olive Street

North Line of Olive St

5th Street

Sta	Cuts Feet	Inches	Band	Rod
96+45	6	0 1/2	86	x
+70	6	1 3/8	87	
+95	5	11 7/8	88	
97+20	5	9 3/4	89	
+45	5	10 3/4	90	
+70	6	2	91	
+95	6	3 1/8	92	
98+20	6	4 3/8	93	+
+45	6	6	94	
+70	6	6 3/8	95	
+95	6	6 3/4	96	=
99+20	6	6 1/4	97	
+40	6	8 5/8	98	+
+60	6	10 1/8	99	
+80	6	10 3/4	100	
100+00	7	1 5/8	101	
+25	7	1 3/4	102	
+50	7	3 3/8	103	
+75	7	3 1/8	104	
101+0	7	5 1/2	105	
+25	7	5	106	

x
out

Depth of inspection 6' 3" feet

x South line of Palm Street

Palm Street

North line of Palm Street

5th Street

Sta	Cuts Feet	Inches	Bond Rod
+50	7	8 1/8	109
+75	7	10 1/4	108
+100	7	10 1/8	109
+125	7	11 3/8	110
+150	8	0 5/8	111
+175	7	11 7/8	112
+200	8	2 7/8	113
+220	8	1 3/4	114
+240	7	9 3/4	115
+260	8	0 7/8	116
+280	6	3 1/4	117

Depth of Inspection 7' 0
 South Side of Quince Street

Quince St
 X
 Out

110.20
 9.02
 680
 1522
 2.202

2nd Street

792

Sta	feet	Out. inches	
7+32	4	10 ³ / ₄	
+52	4	9	
+72	5	10 ¹ / ₄	
+92	5	1 ¹ / ₂	
8+12	5	9	
+37	6	6 ⁵ / ₈	
+62	6	7 ³ / ₈	
+87	6	9 ⁵ / ₈	
9+12	6	10 ⁷ / ₈	
+37	6	11 ⁵ / ₈	
+62	6	9	
+87	6	7 ¹ / ₂	
10+12	6	8 ³ / ₄	
+37	6	7 ¹ / ₂	
+62	6	9	
+87	7	1 ⁵ / ₈	
11+12	7	5 ¹ / ₄	
+32	7	3	
+52	6	11 ³ / ₄	
+72	7	3 ¹ / ₂	20

S line Inspection (6' 0")

Jupiter St

N. line Inspection

S line Inspection (6' 10")

Kalmia St

2nd street

Sta	feet	cut inches		
11+92	7	23/4	21	
12+17	6	8 1/4	22	
+42	6	23/4	23	
+67	6	5	24	
+92	6	5 3/4	25	
13+17	6	9 1/4	26	
+42	7	0 1/4	27	
+67	7	11 3/4	28	
+92	8	6 3/4	29	
14+17	8	7 1/2	30	
+42	7	3	31	
+67	6	2 3/4	32	
+92	5	9 1/2	33	Flank bank
15+12				
+32				

N. line Kalmia

h 3 1/4

8 1/4 1 2

2 1 2

9 1/2 1 1/2

S. line Laurel Inspection 5' 6"

Laurel St 4 4 3

W. H. R. H. T.

139

— 2 birds in

15

10

11

3-24

3-24

3-24

3-24 8th St. N. W. of 1st St. N. W. of 1st St. N. W.

3-24 8th St. N. W. of 1st St. N. W. of 1st St. N. W.

3-24

3-24

8th St. N. W. of 1st St. N. W. of 1st St. N. W.

3-24

Laurels

West East West East

Inspection

1 1/2 m into street

North of the south line of property

Inspection

80+2 1/2

Inspection

84+00 S

South line Laurel St

80+10 1/2

80+28 1/2

79+92 1/2

79+60 1/2

79+18

79+11

78+62

78+40

78+11

78+09

77+62

77+40

77+14

77+12

77+0

76+61 6m. East

76+40

Inspection

83+89

83+42

83+40

82+92

82+90

82+42

82+40

81+92

81+90

81+47 1/2

81+39 1/2

80+93

80+91

80+39 is a

4m Y pointing East for Laurel St

Old sewer no good

81+00 North line Kalmia street

6m Y pointing East for Kalmia St

1-15-18

West East W E

87.31 191 2
87.42

87+91 $\frac{3}{10}$ 4 mi Y Pointing

East for Maple street

Inspection
87+81 $\frac{1}{2}$

90+51 $\frac{1}{2}$

90+49 $\frac{1}{2}$

87+72 $\frac{1}{2}$

87+70 $\frac{1}{2}$

90+07 $\frac{1}{2}$ Taken

for lot Mrs Pipes

87+22 $\frac{1}{2}$

90+01

Old Sewer no good

87+20 $\frac{1}{2}$

86+72

89+51 $\frac{1}{2}$

86+70

89+49 $\frac{1}{2}$

86+28 $\frac{1}{2}$

89+02 $\frac{1}{2}$

89+20 $\frac{1}{2}$

89+00 $\frac{1}{2}$

85+72

88+52

86+70

+++

Standard -

86+22

88+04

85+20

88+02 6 in

Y East Maple street

84+72

88+00 6 in Y West

84+90

84+82

4 in Y pointing

East for Laurels street in West

84+19 -

6 in Y pointing

East for Laurels street

6-12 West

X

West East

94+92

94+90

93+83

93+81

Johnston & Fisher

93+82 1/2

93+80 1/2

92+82

92+80

Doel Seven no 900

92+82

92+80

91+82

Can of prompting

East for Mastineg st

91+80

Can of "

West "

Inspection

91+60 1/2

Inspection

95+89 1/2

Olive Street

95+29 1/2

91+52 1/2

95+27 1/2

91+50 1/2

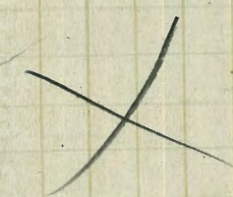
94+82 1/2

91+03

94+80 1/2

91+01 Taken

11



W E W E

34 1/2 34 1/2
15 15
51 49 1/2

Inspection
99 + 20
South line Palm

99 + 10 1/2

1072 21

100

106 + 92

101 + 90

6 E Street
Kestings Stab

98 + 7 1/2

101 + 40

98 + 62

101 + 34 Taken up

98 + 60

100 + 90 1/2

98 + 12

100 + 57 1/2

98 + 10

100 + 41

for Kestings

97 + 70 1/2

000 99 + 89

97 + 60

000

99 + 54 4 in 9

97 + 10 1/2

96 + 63

99 + 42 6 in

96 + 61

99 + 40 6 in 1/2 West

96 + 11 1/2 South of Parkside line

Miss Kestings did not

95 + 60

6 in 1/2 West for Olive street

Puttenbaugh 100 1/2

109 0 1/2

101 1/2

Old Sewer no good

Taken up

X 100 49 1/2

100 90 1/2

49 1/2

101 40 0

for Palm Parkes East

4 East for Palm

for

8 1/2 West line of Olive

but in 4 in 1/2 not needed

street

W E

15-0

10280
150
10230

10080
160
10220

42 ft 8 in pipe
laid

Film Tank

103+80

108+90

109+98

103+20 1/2

103+18 1/2

6 mi + for

10

Guineet

East
West

10.7300
Instruction

South line of

Guineet

102+89

102+87

7

102+40

maple street

2nd street

4 m sewer

11/11 + 25/11 + 33/11 x

lot - F

notes

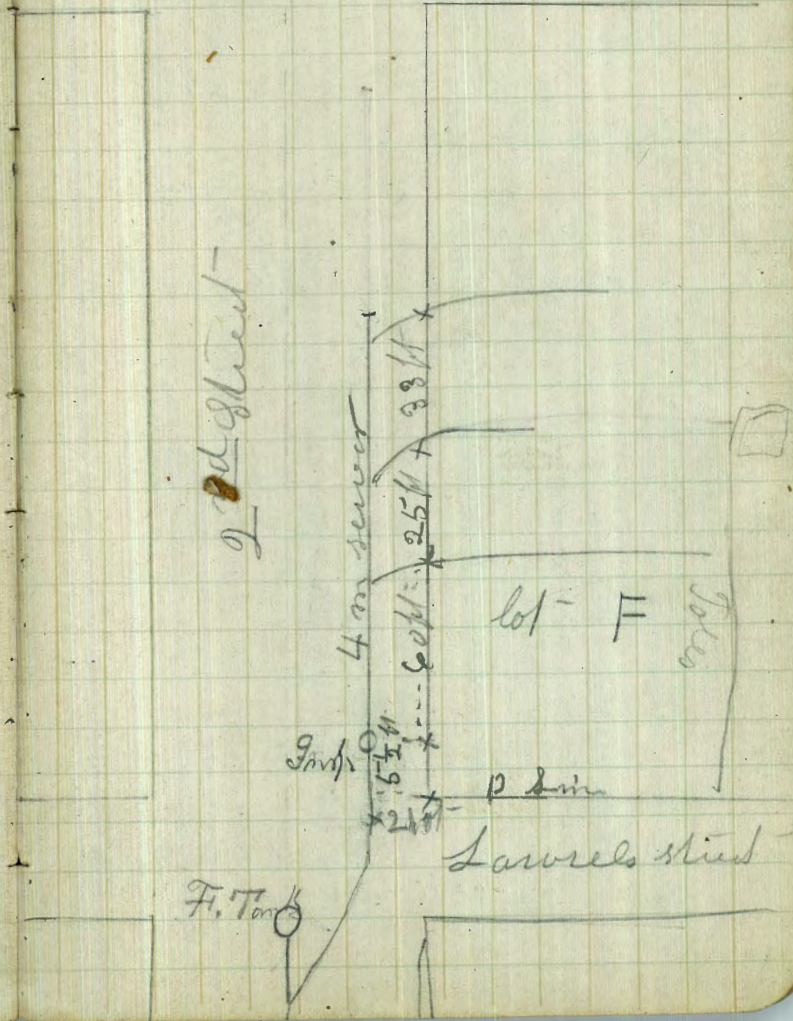
9 m/s

14 5/11 x
22/11

p. 2 m

Laurels street

F. Tom



commenced to lay pipe March 4th

West

East

Flank Tank

14 + 92

at south line of Laurel

11 + 83

11 + 85

11 + 34 6 in Y pointing East

11 + 32 6 in X pointing West

Inspection

11 + 12

Y

14 + 82 lateral East running up to Toles across street

10 + 55

14 + 59

10 + 53

14 + 57

10 + 04 1/2

14 + 83 1/2

10 + 02 1/2

14 + 31 1/2

9 + 54

13 + 85

9 + 52

13 + 83

9 + 05 1/2

13 + 93 1/2

9 + 03 1/2

13 + 31 1/2

8 + 54 1/2

12 + 83 1/2

8 + 52 1/2

12 + 81 1/2

8 + 02

12 + 35

6 in Y

7 + 41 1/2

12 + 33

6 in X

7 + 39 1/2

7 + 32

manhole gmnifer street

nd sb...
11
or

TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

678

Degrees.	DEGREES.		½ DEGREE.		¼ DEGREE.		¼ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	6.87	99.99	1.31	81
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	4.05	80
2	99.94	3.49	99.92	3.66	99.91	4.36	99.88	4.80	80
3	99.86	5.23	99.84	5.07	99.81	6.10	99.79	6.54	80
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.35	80
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	80
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	80
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	80
8	99.03	13.92	98.87	14.35	98.78	14.78	98.74	15.21	80
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.38	79
12	97.81	20.79	97.72	20.22	97.63	21.44	97.53	22.07	79
13	97.44	22.50	97.34	22.92	97.24	23.84	97.13	23.77	79
14	97.03	24.19	96.93	24.62	96.81	25.04	96.70	25.46	79
15	96.59	25.88	96.48	25.30	96.36	26.72	96.25	27.14	79
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	79
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	79
18	95.11	30.90	94.97	31.32	94.85	31.73	94.69	32.14	79
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	79
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	68
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	67
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	66
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.23	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.29	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.68	57.71	81.41	58.07	81.16	58.43	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.23	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.36	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.64	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.55	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.35	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		½ DEGREE.		¼ DEGREE.		¼ DEGREE.		

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