

14th - 19th

9

TRANSIT

F.B. 678

678

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.....	44½	39.....	91	59.....	137½
20.....	46½	40.....	93½	60.....	140

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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.
°		°		°		°	
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

43 ft from corner of

Block 0

or 42 North line of

42 ft North of North line

of lot 5

Section and work

on lot 5 of 100 acres

10 $\frac{1}{8}$ below board
3 $\frac{1}{8}$ above "
8 $\frac{1}{2}$ above "
181-4 $\frac{1}{2}$ above "

Colin

14th street running North from I street.

W E

	2+51	5+14½	7+96
2+59	5+12½		
2+35-	4+90½	7+35	6+11
2+33	4+88½		
2+11	4+65½	7+17	6+90
2+09	4+63½		
1+86	4+40	6+88	6+66
1+84	4+38		
1+59½	4+15½	6+64	6+40½
1+57½	4+13½	6+38½	6+14½
1+33½	3+54	6+12½	5+90
1+09½	3+28	5+88	5+65
1+07½	3+09½	5+68	5+40½
0+86	2+85	5+38½	
0+84	2+83		

7+97 North line of J street

running W for J street

South line of J

South line of K

3+28

3+09½

14th street running N. from L street

9/10 E

10+44

2 10+44

10+21 1/2

2 10+19 1/2

9+97

2 9+95

9+70 1/2

1 9+68 1/2

9+46 1/2

1 9+44 1/2

9+22

1 9+20

8+96 1/2

1 8+94 1/2

8+70 1/2

0 8+68 1/2

8+46 1/2

0 8+44 1/2

8+21

10+77 1/2

0 8+19

10+69 1/2

over

14th sheet running North

from 1 sheet

3

96	£	96	£
	13x52		
	13x50		
2	93x29		
	13x24		
2	13x0 1/2		
	12x99 1/2		
2	12x77 1/2		
	12x75 1/2		
1	12x51 1/2		
	12x49 1/2		
1	12x27		
	12x25		
1	12x0 1/2	14x49	
	11x99 1/2		14x51
1	11x79 1/2	14x24	End of pipe ending on H for Flint Tank
	11x74 1/2	14x02	
		14x00	
0	11x16		
	continuing West for Stone		
0	South Side of 11	13x76 1/2	
	10x97	13x74 1/2	

14th street running North from Eschel

W	E		
			5735-
	2+55½	5733	
2	2+53½		5711
	2+31	5709	
2	2+29		4784½
	2+06½	4782½	
2	2+04½		4780
		4758	
1	2+94 Extra		4736 North line of street
	1+80½	4734	
1	1+78½		
	1+54½	3775	6 in 3 West for Eschel
1	1+52½		
	1+30	South line of st.	
1	1+28	3756	on
	1+05½		3730
0	1+03½	3728	
	0+81		3706
0	0+79	3704	
	0+56		2780
0	0+54	2778	

14th street running North from I street

9N
E

8x15- North line East

8x19

2

7x54 line West for East

2

South line East

2

7x36 E

9x11

17x09

9x88

9x90 11x84

Em

of 8^m high Recreational to 6^m

11x95

line from E for District

9x86

9x66

11x33

Em

line running West for District

16x84

9x64

9x60

9x40

South side District

16x58

9x38

11x16

J

9x36

9x16

10x90

16x34

9x14

16x88

9x10

8x90

10x65

16x08

8x88

16x69

5x85

8x65

10x40

15x83

8x63

10x38

5x59

8x39

10x15

15x57

8x37

10x13

14th Street running North from D Street

96	9		
			16+75
	14+20	16+74	
2 14+18			16+60 ^h
	13+94	16+48 ^h	
2 13+94			16+25 ^h
	13+70	16+23	
2 13+68			16+01
	13+46	15+99	
1 13+44			15+76 ^h
	13+20 ^h	15+77	
1 13+18 ^h			
	12+95 ^h	15+14	cm of East for C 81
1 12+93			
	12+70	South side C 81	
1 12+68		14+98	South
	12+46		14+70
1 12+44		14+68	
	12+20		14+46
1 12+18		14+44	
	11+98		
1 11+94			

14th Street running North from C Street

7

W

E

19+55 North line B

2 19+54

18+94 4th running East from B st

2

South line B

2 18+78

8

21+53 21+55

18+51

21+81

1 18+49

21+29

18+25

21+06

1 18+23

21+04

18+01

20+80

1 17+99

20+78

22+55 End of pipe on 14th street south line

17+74

20+56

22+53

6th

1 17+72

20+54

22+80

17+50

20+30

22+28

1 17+48

20+28

22+05

17+25

20+06

22+03

1 17+23

20+04

21+80

17+00

19+80

21+78

1 16+98

19+78

of A street

of pipe on 14th street south line
of East from A street

E Street running West

from 15th Street to 14th

8

South Wall

May 10. Enclosed

22*

22x14

2x16 End of Pipe on E for flush tank

1x92

11x90

7x87

11x85

1x41

11x89

1x17

11x15

0x902

0x882

0x66

0x64

0x40

0x38

B street running East

Yards Yards

2+18 End of Pipe on

2+16

1+91½

1+89½

1+67

1+65

1+43

1+41

1+16½

1+14½

0+92

0+90

0+68

0+64

0+43

0+41

from 14th street

9

B street running East to 16th

B Street running West to 14th Street from South

10

Y

2x42 End of pipe forish tank

2x40

2x102

2x142

1x91

1x89

1x69

1x65

1x42

1x40

1x17

1x16

1x81

1x89

1x62

1x64

1x892

1x872

19th street running

South from C street

11

E	W				
	2+58				
2+66	2+42				
2+2+40	2+18				
2+2+16	1+98	x			
1+291	1+67				
1+1+65	1+43				
1+1+41	1+17				
1+1+15	0+92				
0+90	0+68	3+44	End of pipe		
0+86	0+41	3+142	3+162		
0+89		2+912			
		2+892			

on 19th street

K street running East from 14th street

N Y West Side

	2+62		
2+60			
	2+896		
2+2+876			
	2+16		
2+2+14			
	1+896		
+8 1+876		4+12	End of
	1+656	3+87	
1+0 1+636		3+85	
	1+41	3+61	
+ 1+39		3+59	
	1+15-	3+87	
1+13		3+85	
	0+91	3+61	
0+89		3+09	
	0+656	2+866	
0+636		2+846	
0+40			
0+38			

East line 14th street

pipe on E side for street

0+41 is line

C street running East
North Side

from 14th Street to 15th 13

2+42 End of pipe
2+89

2+4 2+97

2+162

2+1 2+146

1+92

1+8 1+90

1+66

1+6 1+54

1+42

1+4 1+40

1+17

1+ 1+15

0+90 1/2

0+ 0+88 1/2

0+65 1/2

0+53 1/2

0+42

0+ 0+40

15th street running North

from E street

14

W S W E

32x25

29x45 32x23

29x43

32x61

29x21 31x99

29x19

31x74

28x96 31x72

28x94

31x51

28x70 31x49

28x68

31x26

28x46 31x24

28x44

30x98

28x20 30x96

28x18

27x96 30x89

27x94

6m running

West for B street

27x70

limits line B st

27x68

30x21

9m

27x46

29x96

27x44

29x94

27x196

29x69

27x176

29x67

25x80 Enact 10th paper mine

15th street running North from Dulles

15

91	E				
			37+29 1/2	40+10	
	34+81	37+27 1/2		40+08	
34+79			37+05 1/2	39+86	
		37+03 1/2		39+84	
34+18	6 in	y West for C street			
			35+79 1/2	39+60	
2	small line East	35+77 1/2		39+58	
	34+01		35+55	39+36	
		33+73	35+53	39+34	
33+73			35+31	39+10	
	33+50	35+29		39+08	
33+48			35+05	38+86	
	33+25	35+04		38+84	
33+24			35+79 1/2	38+60	
	33+00	35+77 1/2		38+58	
32+98			35+55		
	32+76	35+53		37+99	6 in y
32+74			35+31	small line B 11	West for B street
	32+49 1/2	35+29		37+81	
32+47 1/2			35+04 1/2	37+55 1/2	
		35+02 1/2		37+53 1/2	

15th sheet North

from D

16

41+86 End of pipe for Filmb Tank on 15th sheet Apr 21st 1888
41+34 end of West for A 1

41+10

40+88

40+86

40+84

40+60

40+58

40+36

40+34

14th Street running South from P to H

17

15	16	17	18	19	20
		2+80			
2+78					
	2+62				
2+60					
	2+37 1/2				
2+35 1/2					
	2+11 1/2				
2+09 1/2					
	1+87				
1+85					
	1+62 1/2				
1+60 1/2					
	1+35 1/2				
1+33 1/2					
	1+11 1/2				
1+09 1/2		8+60	End of pipe for plank Tank from P to H		
	0+86 1/2	8+85			
0+84 1/2		8+84			
	0+58 1/2	8+11 1/2			
0+57 1/2		8+09 1/2			

California Street

running North from Ash 18

W	E		
		12+84 1/2	own
		12+82 1/2	
	10+0 1/2	12+60	
9+99 1/2		12+58	
	9+76 1/2	12+95-	
9+74 1/2		12+33	
	9+57 1/2	12+10	
2 9+49 1/2		12+08	
	9+27	11+84 1/2	
9+25-		11+82 1/2	
	9+02		
1 9+00		11+23	6 mi of East for Date 11-
	8+78		
1 8+74		<div> <div>sent line Date</div> <div>11+05-9</div> </div>	
	8+52		
1 8+50		10+76	
	8+27	10+74	
8+25		10+51 1/2	
	8+02	10+49 1/2	
8+00		10+27	
		10+25	
7+39 1/2	6 mi of running East for Cedar		

California mining

North-west Sch

19

41

E

15+59

Sub li Grah
18+11 1

15+57

17+88½

15+34 17+81½

20+91

15+32

17+59 20+89

15+68 17+57

20+54

15+64

17+83 20+54

17+31

20+40½

14+47 C in g East for 20+38½

20+15½

Sub li for v

18+08½ 20+13½

14+29

17+06½

19+90½

14+10

16+83½ 19+88½

14+08

16+81½

19+55½

13+84

16+58½ 19+53½

13+82

16+56½

19+40

13+60

16+34 19+38

13+58

16+32

19+16½

13+35

16+09 19+14½

13+33

16+07

18+91

13+10½

15+84½ 18+89

13+08½

15+82½

18+81

18+80

8 in to
8 in g

6 in reducer for
for Grah East

92

CC

North from Grape

20

234682

234704

Center of Gravity

2671)

3

23+45

23x48 1/2

25789

Even y for Fox nut

23x21

25.445

2 23419

25-11-9

22495-

25-721

22498

25-418

224705

24496

1-224682

24494

22409

6th

East for Hawthorne

South Co. Harbison

244705

121491

Q

2455

2 NOV-1

0 11.1 1.1

214634

24819

21411

2 1149 a

21439

04x15

2141C

79401

21414

23492

California mining

W

E

28+73

28+95

28+48

28+50

28+24

28+29

27+98

28+00

27+95

27+79 1/2

30+37 sec connect

27+51

27+49

30+25 1/2 south 1/2

27+24

30+29 1/2 - 1/2

27+22

27+01

26+99

26+76

26+73

cont. line. In place

26+50 1/2 29+16

On

P. C

35 ft

26+48 1/2

29+01

28+99

North from Lake

21

on the Juniper, steep slope
Juniper steep corner

cont. line. Juniper

India sheet running

18

90

2x88

2x90

2x66

2x64

2x42

2x40

2x162

2x142

1x90

1x88

1x66

1x64

1x412

1x392

1x17

1x15

0x91

0x89

0x66

0x64

0x40

0x38

3x43

3x15

3x17

Flush Tank End of pipe on India and its North line

Yours from Leape

Grape running East from California St 23

North South

5+35 8+8 3 North for India
5+33 6+8 3 South for India

West side India

5+17 8+17

4+14

4+14

3+99

3+41

Connection to 2+50

3+15

3+17

West side India

2+42

8+9

6th of South

1+9 1/2

8+07

6th of North

1+89 1/2

1+16 1/2

1+14 1/2

0+90

0+88

0+68

0+64

West side Columbia

7+92

6+9 1/2

6+89 1/2

6+17

6+15

2+54 6th of

6th of

for Columbia 11 End of path
for Columbia 11

Grape

Plato mining North from Ash

W	E				
			5+46	8+02	
	2+66	5+44		8+00	
2+64			5+22		
	2+42	5+20		7+42	6 mi E East for Cedar
2+40			4+96		
	2+17	4+94		South line Cedar	
2+15			4+71	7+22	Inf
	1+91	4+69		6+97	
1+89			4+46	6+95	
	1+67	4+44		6+71	
1+65			4+21	6+69	
	1+41	4+19		6+44	
1+89				6+44	
	1+17	3+60	6 mi E East for Beach		
1+15				8+21	
	0+91	South line Beach	6+19		
0+89		8+42	8	5+96	
	0+66		3+17	5+94	
0+64		9+15		6+71	
	0+42		2+92	5+69	
0+40		2+90			

State sheet running North from Ash

W

E

				16x04
		13x29	16x02	
	10x51	13x29		15x78
10x49			13x04	15x76
	10x27	13x02		15x53
10x25			12x80	15x51
	10x01	12x78		15x28
9x99			12x54	15x26
	9x76	12x52		14x68
9x74			12x30	
	9x51	12x28		South line Elm
9x49			12x04	14x49
	9x29	12x02		14x29
9x25			11x80	14x27
	9x01	11x78		14x04
8x99			14x02	
	8x76	11x18	6m of	East for Date
8x74				
	8x52	South line Date		13x79
8x50		11x00	13x77	
	8x25		10x76	13x54
8x24		10x74	13x52	

6m of running East for Elm

State sheet running North from Ash

26

W E

18438 6m z East for Fir 23+78

23+60

South in Fir

18+20 20+97

20+99 23+52

23+54

18+03

20+72

20+74 23+27

23+29

18+01

17+78

20+48

20+50 23+01

23+03

17+76

17+53

20+22

20+24 22+77

22+79

17+51

17+29

19+99

22+18 6m z East for Grape

22+18

17+27

17+03

19+73

19+75 South in Gro

22+00

17+01

16+78

19+49

22+00 21+24

21+24

16+76

16+53

19+24

21+72

21+72

16+51

16+28

18+99

21+49

21+49

16+25

18+97

21+22

21+22

25+80 End of pipe black
25+79 6m z East for Hawthorn
25+74 6m z West for Hawthorn

+

24+53

25+55

25+80

25+26

25+06

25+03

24+80

24+78

24+55

24+53

24+29

24+27

24+05

24+03

District running West

27

South North

from 14 to 13 sheet

2x62 6 in 3 North for 13th sheet
2x60 6 in 3 South for 13th sheet

End of pipe in District

East line 13th sheet

2x42

13th sheet North 13th sheet South

2x152

2x482

1x99

1x89

1x67

1x65

1x41

1x98

1x162

1x142

0x91

0x89

0x67

0x65

0x422

0x402

District

13th steel running South

from D

28

E

W

2+64 $\frac{1}{2}$	2+66 $\frac{1}{2}$	5+44
2+40	2+42	5+21 $\frac{1}{2}$
2+14	2+16	4+99
1+90 $\frac{1}{2}$	1+92 $\frac{1}{2}$	4+95
1+65 $\frac{1}{2}$	1+67 $\frac{1}{2}$	4+71 $\frac{1}{2}$
1+40	1+42	4+47
1+15 $\frac{1}{2}$	1+17 $\frac{1}{2}$	4+22 $\frac{1}{2}$
0+89 $\frac{1}{2}$	0+91 $\frac{1}{2}$	4+14 $\frac{1}{2}$
0+65	0+67	3+17
0+48 $\frac{1}{2}$	0+45 $\frac{1}{2}$	2+92 $\frac{1}{2}$
	2+90 $\frac{1}{2}$	5+70

+

7+22

E end

of tube for plant tank &

6+99

6+95

6+71 $\frac{1}{2}$

6+69 $\frac{1}{2}$

6+46 $\frac{1}{2}$

North end E

3+42

In

6+20

6+22

5+96 $\frac{1}{2}$

5+94 $\frac{1}{2}$

5+92

Street running West

South North

2+67
2+65

2+42
2+40

2+17
2+15

1+91
1+89

1+66½
1+64½

1+42
1+40

1+17
1+15

0+92
0+90

0+66
0+64

0+42
0+40

4+42 End of pipe

4+36½
4+34½

4+17
4+15

3+92
3+90

3+66½
3+64½

3+42
3+40

3+16½
3+14½

2+92
2+90

from 15th to 14 street

29

for Fluvial Tank

13th Street running North from D

W	E			
	2+92 $\frac{1}{2}$	5+98		
2+90 $\frac{1}{2}$	5+96			
	2+68	5+72	8+52	
2+66	5+70	8+50		
	2+48 $\frac{1}{2}$	5+48	8+27	
2+41 $\frac{1}{2}$	5+46	8+25		
	2+17 $\frac{1}{2}$	5+23	8+02	
2+15 $\frac{1}{2}$	5+21	8+00		
	1+91 $\frac{1}{2}$	4+97 $\frac{1}{2}$	7+42	
1+89 $\frac{1}{2}$	4+95 $\frac{1}{2}$	7+40	6 $\frac{1}{2}$ m	
	1+67 $\frac{1}{2}$	4+72 $\frac{1}{2}$	South line B	
1+65 $\frac{1}{2}$	4+70 $\frac{1}{2}$	7+23	8	
	1+41 $\frac{1}{2}$	4+48 $\frac{1}{2}$	6+97 $\frac{1}{2}$	
1+39 $\frac{1}{2}$	4+46 $\frac{1}{2}$	6+95 $\frac{1}{2}$		
	1+17	4+22	6+73	
1+15	4+20	6+71		
	0+93	3+51	6 $\frac{1}{2}$ m of running	West for E street
0+91				
	0+67	South line C	6+49 $\frac{1}{2}$	
0+65	3+49	6 $\frac{1}{2}$ m	6+45 $\frac{1}{2}$	
	0+42 $\frac{1}{2}$	3+18	6+23	
0+40 $\frac{1}{2}$	3+16	6+21		

13th street running North from District

W E

111+03 End of pipe for District Tank

10+97 4^m West of line
10+97

10+95

10+53

10+51

10+27

10+25

10+02½

10+02

9+87½

9+75½

9+54

9+52

9+27

9+25

9+02½

9+00½

8+98

8+95

Street running West from 15th to 14

32

South North

2+66

2+58

2+95

2+94

2+11

2+09

1+85

1+88

1+61

1+59

1+34

1+32

1+10

1+08

0+86

0+84

0+61

0+59

0+35

0+34

4+97 End of pipe East

4+94

4+92

4+11

4+09

3+85

3+83

3+61

3+59

3+35

3+33

3+11

3+09

2+84

2+82

line of 14th street flush Tank

Not East

Dist. running East from 14 to 15

North	South		
2+86 1/2	2+90 1/2		
2+64	2+66		
2+97 1/2	2+89 1/2		
2+14	2+16		
1+89	1+91		
1+63 1/2	4x41	End of pipe for	flush Tank
1+98 1/2	4x85	4+97	
1+14	1+40 1/2	4x16 1/2	
0+88	1+16	4x19 1/2	
0+64	3+89	3+91	
0+89	0+90	3+65	
	3+63	3+41	
	3+89	3+14 1/2	
	3+12 1/2		

Columbia street running North from Scape to Fog 34

W	E				
2x91	2x93		5x97		
	2x67	5x95			
2x65			5x73		
	2x42	5x71			
2x40			5x47		
	2x18	5x45			
2x16			5x23		
	1x92	5x21			
1x90			4x97		
	1x67	4x95	7x22	End of pipe for Flank Tank	
1x65			4x72	7x18	6m 3 East for Fog
	1x43	4x70	7x16	6m 3	West for Fog
1x41			4x48	6x96	
	1x18	4x46	6x94		
1x16			4x22	6x72	
	0x92	2x120	6x70		
0x90		3x62	6m 3 East for	Haroldson	
	0x68	South Pine Haroldson	6x48		
0x66		3x43	6m 3	6x46	
	0x43		3x17	6x28	
0x41		3x15	6x21		

x

End of pipe for Flank Tank
6m 3 East for Fog
6m 3 West for Fog

Haroldson

Columbia ^{Street} South of Grape

W

E

2+68

2+64

2+41

2+39

2+15

2+13

1+92

1+90

1+66

1+64

1+41

1+39

3+40

End of Pop. Filings

End of Prof. 1+49
Tank

1+19

3+35

6m y East for Fair

1+14

3+33

6m y West for

Fire Street

0+91

3+16

0+89

3+14

0+67

2+90

0+65

2+88

0+41

Commenced work on

0+39

State Street ^{running} South

West East W E

from Junction

36

3+60 6m y East for Log

North line Log

3+42 Ins

3+16

3+14

2+91

2+89

2+66

2+64

2+42

2+40

2+16

2+14

1+89

1+63

1+39

1+14

0+89

0+64

0+39

6+19

5+94

5+70

5+44

5+19

East -

4+94

1+65

4+69

1+16

4+44

0+66

4+19

6+21

8+96

5+72

5+46

5+15

4+96

4+71

4+46

4+21

6+44

7+22

7+16

7+14

6+96

6+94

6+71

6+69

6+46

6+44

X

End of pipe Shish Tenth

6m 3

6m 4

6+96

6+71

6+46

East for Hawthorn St
West for Hawthorn
wooden box 167 End 179

Columbia Street running

South from Jasper

37

W

E

2+64

2+64

2+40

2+42

2+14

2+16

1+90

1+90

1+64

1+66

1+39

1+41

3+41

End of pit

1+14

1+16

3+37

cm by East for

0+91

3+35

cm by West for

0+89

0+91

3+14

0+64

0+66

3+14

2+91

0+38

0+40

Commenced with wooden

flint Tank

Joy
Joy

box 1+21 End of wooden Box

Union running South from Juniper

E	W		
		4+90	
		4+88	
	2+14	4+44	
2+12		4+42	
	1+90	4+20	6+45
1+88		4+18	6+20
	1+64	3+95	6+18
1+62		3+93	5+94
	1+40	3+69	5+92
1+38		3+67	5+69
	1+14	3+44	5+67
1+12		3+42	5+45
	0+90		5+43
0+88		2+84	5+43
	0+64	North line of	East for Jay
0+62		2+65	5+19
	0+39	2+41	4+95
0+37		2+38	4+98

0+0 = 7+74 Point of Tangent on
 7+74
 7+49 6 in N East for Juniper

of pipe for Flint Fork

Juniper + union as I understand

Juniper Street running
North South

East from India to main

39

2x61

2x63

2x88

2x96

1x80

1x98

in g North for Columbia
in g South for Columbia

West line Columbia West line State

1x63

In

4x98

J

6x11

6x13

1x98 1/2

4x13

5x87 1/2

1x96 1/2

4x11

5x85 1/2

1x12 1/2

3x88 1/2

5x63

0x10 1/2

3x86 1/2

5x61

0x88

3x62 1/2

5x37 1/2

0x84

3x60 1/2

5x35 1/2

0x61

3x38

5x13

0x59

3x34

5x11

0x98

3x19

4x75

0x36

3x11

4x73

0x13

2x87 1/2

4x54

6m

0x11

2x85 1/2

4x52

6m

For Center of State Street

for North for State
for South

India Sheet running North from Cape

94

6

11+78

11+76

11+52

11+50

South line
10+68

Juniper
line

10+53

10+51

10+27

10+25

10+02h

10+00h

+

9+78

9+76

9+52

9+50

9+28

9+26

9+08h

9+01h

11+92

End of pipe on

Juniper sheet

India Street running North

from Leape

41

W	E				
2+90	2+92	5+95	5+97	8+79 1/2	
	2+67		5+71 1/2	8+75 1/2	
2+65		5+69 1/2		8+53	
	2+41 1/2		5+47	8+51	
2+39 1/2		5+45		8+27 1/2	
	2+17		5+21 1/2	8+25 1/2	
2+15		5+19 1/2		8+00 1/2	
	1+91		4+97	7+40	6m of
1+89		4+95			
	1+67		4+71 1/2	South line Joz	
1+65		4+69 1/2		7+23	J
	1+42		4+47		
1+40		4+45		6+95 1/2	
	1+16 1/2		4+20	6+94 1/2	
1+14 1/2		4+18		6+72	
	0+9 1/2	3+60		6+70	
0+89 1/2			6m of East for Hawthorn		
	0+67	South line Hawthorn		6+47	
0+65		3+42	J	6+45	
	0+40		3+16	6+21 1/2	
0+38		3+14		6+19 1/2	

East for Joz

Third running North

W E W E W E

			56+14		
	58+34	56+12			58+18
53+32			55+89	58+16	
	53+09	55+87			
53+07			55+64	57+58	6 mi S East for Fair street
	52+83	55+62			
52+81			55+99	drift line first	
	52+59	55+97		57+40	2
52+57			55+14		57+14
	52+33	55+12		57+12	
52+31			54+89		56+89
	52+10	54+87		56+89	
52+08			54+64		56+64
	51+84	54+62		56+62	
51+82			54+99		56+99
	51+59	54+97		56+97	
51+57		53+98	6 mi S East for	Elm st	
	51+34				
51+32					
	51+10	53+60	drift line Elm		
51+08			15 ft from top first		3

83 ft North of North line of

Date 42

from Date the north line was

Third Street running

W

E

60+69

60+67

60+44

60+42

60+19

60+17

59+94

59+92

59+69

59+67

59+44

59+42

59+19

59+17

58+94

58+92

58+69

58+67

58+44

58+42

61+20

61+14

60+92

End of pipe on
61+16 63 ft. Gird
61+14 6 mi. 3 for Grape
60+94

North from Date st.

43

Third South line Grape
East
West -

E street running West - from 15th street to 14th st

44

South North

	2+67	
2+65		
	2+41 $\frac{1}{2}$	
2+89 $\frac{1}{2}$		
	2+17	
2+15		
	1+90 $\frac{1}{2}$	
1+88 $\frac{1}{2}$		
	1+66 $\frac{1}{2}$	
1+64 $\frac{1}{2}$		
	1+42	
1+40		
	1+16 $\frac{1}{2}$	
1+14 $\frac{1}{2}$		
	0+92	
0+90		
	0+66 $\frac{1}{2}$	
0+63 $\frac{1}{2}$		
	0+41	
0+39		

4+42 End of pipe on
4+40

4+38
4+17

2+15
3+92

3+90
3+66

3+64
3+42

3+40
3+16

3+14
2+92

2+90

E street East line of 14th street

Atlantic running North from D. Street

W	E		
	27+85-		
27+83		30+85-	
	27+59	30+83	
27+57		30+09	
	30+07		
A street center		29+84 1/2	
27+20 man Hole	29+82 1/2		
	29+55-	29+60	
26+53	29+58		
	29+29	29+34	
26+27	29+32		
	29+05-	29+10	
26+03	29+08		
	29+80	28+84 1/2	
25+78	28+82 1/2		
	28+55-	28+60	
25+53	28+58		
	28+29 1/2	28+34	31+12
25+27 1/2	28+32	30+70	man
	28+05-	28+10	Hole connect with 10" pipe at
25+03'	28+08	30+57	connect on at Ash Street
		30+55-	

Atlantic mining parts

from D sheet

47

W	E	W	E
	18+94½		21+95-
18+92½		21+93	
	18+49	21+49	24+77½
18+47		21+47	24+54
	18+24½	21+24½	24+52
18+22½		21+22½	24+29½
	18+00	21+00	24+27½
17+98		20+98	24+05
	17+73	20+94	24+03
17+71		20+92	23+80
	17+49	20+49½	23+78
17+47		20+49½	
	17+24½	20+25	23+20 man Hale
17+22½		20+23	22+74½
	16+99½	20+00	22+92½
16+97½		19+98	22+49½
	16+74		22+49½
16+72			22+19
	16+49½	19+60 man Hale	22+19
16+47½		19+00	21+99½
	18+98		21+97½

area

AB sheet

Brant sheet mms

W

E

W

from main at North

48

9+54 7+55

7+29 7+31

7+05 7+07

6+99 6+81 1/2

6+55 6+57

6+29 6+31

6+05 6+07

5+45 6m

5+29 8m

4+99 5+01 1/2

8+82 End of
8+56

8+54 8+31

8+29 East for

8+04 8+05 1/2

7+79 7+81

Pipe on Brant flush tank

8m

Brant swimming from summit North

E W E

2+58

4+77

4+75

2+262

4+512

4+496

1+65- 6 mi of swimming East for Hawthorn

Swims in Hawthorn 4+27

1+47 4+25

4+01

1+21

3+99

3+77

0+962

3+75

3+55

0+70

3+54

3+266

0+57

3+246

3+00

0+39

2+98

2+77

0+19

2+75

3rd sheet - 7" sheet

W

6

3rd sheet

7

9

10

11

1400

0798

1100

East side

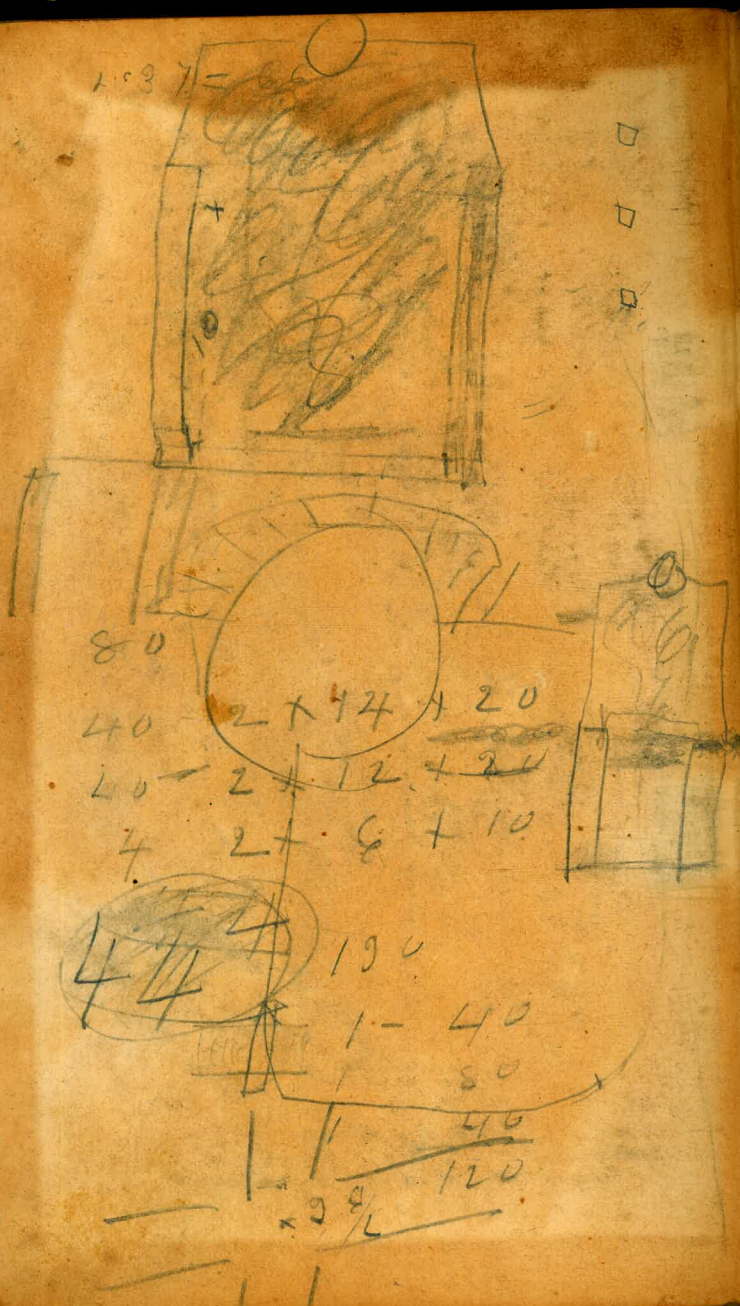
on 4th bet A & D



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

Degrees.	DEGREES.		½ DEGREE.		¼ DEGREE.		⅓ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	81
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	82
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	83
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	84
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	86
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	87
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	88
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	89
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	90
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	71
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	72
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	73
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	74
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	75
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	76
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	77
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	78
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	80
21	93.36	35.81	93.20	36.24	93.04	36.65	92.88	37.06	61
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	62
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	63
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	64
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	65
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	66
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	67
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	68
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	69
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	70
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	51
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	52
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	53
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	54
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	55
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	56
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	57
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	58
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	59
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	60
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	41
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	42
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	43
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	44
45	70.71	70.71							45
Degrees.	DEGREES.		½ DEGREE.		¼ DEGREE.		⅓ DEGREE.		Degrees.
	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	

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3rd Met.

California

