SEWERAGE
LOCATION OF Y BRANCHES
1st, 2d, 3d STS.

9

TRANSIT.

F.B. 686

686

E TABLE FOR TRANSIT BOOK,

om 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	89
1	99.98	1.75	99 98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
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	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12 19	99.20	12.62	99.14	13.05	99.09	13 49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
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	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95 88	28.40	95.76	28.82	73
17	95.63	29 24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30 90	94.97	31.32	94 83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94 26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
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	65
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	87.25	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	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.33	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	81.66	57.71	81.41	58.07	81.16	58.42	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 25	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	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	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	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

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MICROFILMED
DEC 1 4 1964

City Engineer's
Office
Sewerage of San Diego

3.60
3
1080

68

Degrees.	DEC
	Lat.
0	
1	99.98
2	99.94
3	99.86
4	99.76
5	99.62
6	99.45
7	99.25
8	99.03
9	98.77
10	98.48
11	98.16
12	97.81
13	97.44
14	97.03
15	96.59
16	96.13
17	95.63
18	95.11
19	94.55
20	93.97
21	93.36
22	92.72
23	92.05
24	91.35
25	90.63
26	89.88
27	89.10
28	88.29
29	87.46
30	86.60
31	85.72
32	84.80
33	83.87
34	82.90
35	81.92
36	80.90
37	79.86
38	78.80
39	77.71
40	76.60
41	75.47
42	74.31
43	73.14
44	71.93
45	70.71
Degrees.	Dep.
	DEG

Published

2nd St. above Fir

Note — Mr Goldthwaite did not give me all the inspection pipes so I have only a few.
Day Mendenhall has them all

The station of the center of each cross-street is written in its place with the name of the street opposite it.

St W of l

W	E		W	E
Sta	Sta		Sta	Sta
1 = N.S.T St				
1+18.5	1+20.5		6+73	6+75
+45	+47		+98	7+00
+71	+73		7+23.5	+25.5
+95	+97		+47	+49
2+21	2+23		+71.5	+73.5
+46	+48		+86.5	+88.5
+70	+72	X—	8+40 = Center G St	
+96	+98		8+77	8+79
3+22	3+24		9+02	9+04
3+46	+48		9+28	+30
+66.5	+68.5		+52	+54
+82	+84		9+78	9+80
4+50 = Center of H			10+2.5	10+4.5
+99	5+01		10+28	+30
5+23	+25		+52	+54
+48	+50		+78	+80
+73	+75		11+03	11+05
5+98	6+00		11+29	+31
6+22	+24		+53	+55
+48	+50		12+20	F St

11+50 Inspec Pipe

2

W	E		W	E
12+57	12+59		+87	+89
+83	+85		18+11	18+13
13+7	13+9		+37.5	+39.5
+33	+35		+62	+64
13+56	+58		+88	+90
+83	+85		19+25 Inspec Pipe	
14+7	14+9		19+87.5	D St
+33	+35		20+49	20+51
+58	+60		+72	+74
+83	+85		+98	21
15+7	15+9		21+23	+25
+31	+33		+46	+48
+46	+48		+72.5	+74.5
15+60 Ins Pipe			+96	+98.5
16+00	F St		22+21.5	22+23.5
16+37	16+39		+46.5	+48.5
+61	+63		+71	+73
+87	+89		+97	+99
17+12	17+14		23+21 Inspec Pipe	
+38	+40		23+60	C St
+62	+64		23+98	24

1

1st St

W	E		W	E	
24+21.5	24+23.5		29+76.5	29+78.5	
+48	+50		30+1.5	30+3.5	
+71	+73		+27	+29	
+98	25		+52.5	+54	
25+23	+25		30+80	Inspec	
25+48	+50		31+20	A St	
+73	+75				
+98	26		30×99	6 in y cast for a	
26+23	+25		31×00	6 in y west for a	
+48	+50		31×58	31×60	
+73	+75		32×08	32×10	
27 Inspec			56	58	
27+40	B St		33×06	33×08	
27+77.5	27+79.5		55	57	
			83	85	
28+3	28+5		34×08	34×10	
+28	+30		32	34	
+53	+55		34×60	Inspect	
			O So line of ash		
+78	+80				
29+2	29+4		34.79	6 in Y east	
+26.5	+28.5		35.37	35.39	
+51.5	+53.5		87	89	

1st Street

W	E		W	E
36×38	36×40		42.39	6 in Y east for Cedar Str.
86	88		42.97	42.99
37×37	37×39		on act. of Culvert	
86	88		43.24	43.26
38.13	38.15		47	49
38+40	Inspec.		72	74
S Side Beach			97	99
38×58	6 in Y for Beach Street		44.22	44.24
39.17	39.19	10th Cin Beach	46	48
39.42	39.44		73	75
68	70		97	99
92	94		45.21	45.23
40.16	40×18		47	49
43	45		72	74
67	69		46.00	Inspector
93	95		O So line Date	
41.17	41.19		46×18	6 in Y east for Date
42	44		46.78	46.80
67	69		47.02	47.04
91	93		47.28	47.30
42×20	Inspector So line		52	54
O	Cedar St			

1st St

W	E		W	E	
			53x60	Inspection South line Fir Street	
47.77	47.79				
48.02	48.04		53.79	6 in Y East for F	
27	29		54.16	54.18	
52	54		.38	.40	
76	78		.62	.64	
49.02	49.04			90	East Y for Porter
27	29		88		
52	54		56.12	56.14	
49.80	Inspection South line Elm		.38	.40	
49.98	6 in Y East for "		.63	.65	
50.50	50.60 no line "		88	90	
81	83		57.12	57.14	
51.07	51.09		57.40	Inspection	
32	34			So line of Grape	
57	59		57.58	6 in Y east for "	
82	84		58.17	58.19	
52.06	52.08		.43	.45	
32	34		.67	.69	
56	58		.93	.95	
83	85		59.17	59.19	
58.07	58.09		43	45	

W	E		W	E	
59.67	59.69		65.00	Inspection So line of Ivy Str.	
60x17	60x19		65.18	6 in Y east for Ivy St.	
43	45				
67	69		65.77	65.79	
91	93		66.01	66.03	
61x20	Inspection		.27	.29	
	O south side Hawthorne		.51	.53	
61.38	6 in Y east for Hawthorn St		.77	.79	
			92	extra Y east.	
61.97	61.99		67.03		
62.28	62.25		67.27	67.29	
47	49		.53	.55	
71	73		77	79	
98	63x00		68.03	68.05	
63x22	63x24		.27	.29	
48	50		68.50	6 in Y west for Juniper	
72	74				
96	98		68.52	6 in Y east for Juniper	
64.22	64.24				
47	49		68.54	end of pipe for Flush tank	
71	73				

Entered

✓ 2d St

W	E
1 = N.S.J.	
1+25.5	1+28.5
+49	+51
+76	+78
+95	+97
2+21	2+23
+44.5	+46.5
+71.5	+73
+96	+98
3+21	3+23
+45	+47
+71	+73
4+40 = Cen of I	
5+02	5+04
+25	+27
+54	+56
+74.5	+76.5
6+[illegible]	6+02
6+22	6+24
6+49	6+51
6+71	+73

W	E
6+97	6+99
7+23	7+25
7+51	7+53
8+30 = Cen H	
8+77	8+79
9+3	9+5
+27	+29
+51	+52
+75	+77
10+01	10+02
+25	+27
+51.5	+53
+76	+78
11+2	11+4
+26	+28
+52	+54
12+20	G St
12+57	12+59
+83	+85
13+7	13+9
+33	+35

W	E
13+58	13+60
+81	+83
14+7	14+9
+31	+33
+58	+60
+82	+84
15+8	15+10
+31.5	+33.5
16+00	F St
16+38	16+40
+62	+64
+88	+96
17+12	17+14
+38	+40
+62	+64
+86	+88
18+13	+15
+37	+39
+63	+65
+87.5	+89.5
19+13	19+[illegible]

W	E
19+40	Inspec
19+80	E St
20+43	20+45
20+68	20+70
+92.5	+94.5
21+17.5	21+19.5
+43	+45.5
+69	+71
+93	+95
22+18	22+20
+43	+45
+68	+70
23+05	Inspec
23+67.5	D St
24+28	24+30
+52.5	+54.5
+78	+80
25+3	25+5
+28	+30
+53	+55
+78	+80

2d St

W	E		W	E
26+3	26+5 ✓		31.57	31.59
+28	+30 ✓		.83	.85
+53	+55 ✓		32.08	32.10
+78.5	+80.5 ✓		.32	.34
27	Inspec ✓		.58	.60
27+40	C St		.82	.84
27+77	27+79 ✓		33.08	33.10
28+3	28+5 ✓		.33	.35
+28	+30 ✓		.57	.59
+53	+55 ✓		.67	extra ½ east
+77	+79.5 ✓		.83	.85
29+3	29+5 ✓		3407	3409
+28	+30 ✓		35	37
+53	+55 ✓		60	Inspector So
+78	+80 ✓			line of A Street
30+3	30+5 ✓		34.78	Cir ½ east for A.
+28	+30 ✓		35.38	35.40
+53	+55 ✓		.62	.64
30+80	Inspec ✓		.87	.89
O	B		36.12	36.14
30.98	Cir ½ for B St east		.38	.40

2d Street

W	E		W	E
36.63	36.65		41X66	41X68
87	89		.91	.93
37.13	37.15		42X20	Inspector
37	39		So line	Beach
61	63		42X39	Cir ½
89	91		east for Beach	
38.12	3814		42.97	42.99
38.40	Inspector		43.21	43.23
So line	ash		.47	.49
38.59	Cir ½ east for		72	74
ash			96	98
39.17	39.19		44.22	44.24
.42	.44		.46	.48
.66	.68		.73	.75
.93	.95		.97	.99
40.17	40.19		45.21	45.23
.43	.45		.47	.49
.67	.69		72	74
.92	.94		46.00	Inspector
41.18	41.20		O south line Cedar	
.42	.44		46X18	Cir ½ east for Cedar

✓ 2d St

W	E
4677	46.86
47.03	47.05
.27	.29
.52	.54
.77	.79
48.02	48.04
.27	.29
.51	.53
77	79
4902	4904
27	29
52	54
49.80	Inspection South
line	of date
49.98	6 in Y East
for	date
50.57	50.59
.82	.84
5107	51.09
.33	.35
.57	.59

W	E
5182	5184
52.05	52.09 = to suit owner
.32	34
.57	59
82	84
53.07	53.09
33	35
53.60	Inspection South
O	line of Elm
53×78	6 in Y
east for	Elm
54.36	54.38
62	64
87	89
55.11	55.13
.36	.38
.62	.64
.87	.89
56.12	56.14
36	38
57	64

2nd Str. * Error North from Hawthorn ✓

W	E
56×86	56.88
57×12	57×14
5740	Inspection
O	so line Fir Str
57.58	6 in Y East
for	Fir
5817	58.19
43	45
68	70
92	94
59.17	59.19
42	44
67	69
92	94
60×12	60×19*
42	44
67	69
60.88	6 in Y West for Grape
60.90	6 in Y East " "
60×94	end of pipe, 25 ft south of south line of Grape Street

Entered

W	E
0×47	0×49
73	75
98	1×00
1×23.5	×25.5
73.5	.75.5
2×22.5	2×24.5
74.5	.76.5
3.22.5	3.24.5
3.51.5	Inspection so line of Ivy
3.70.5	6 in Y east for Ivy Str
4.27.5	4.29.5
.79.5	.81.5
5.28.5	5.30.5
.78.5	.80.5
6.29.5	6.31.5
.78.5	.80.5
7.25.5	6 in Y West for Juniper
7.27.5	6 " Y East
7.32.5	end of pipe for Flushtank

South of Hawthorn
East West
Begin at O
2×62
98 3×00
3.46 6 in Y East
3.48 6 in Y West for Grape Str
3.53.5 end of pipe north line of Grape

Entered

3d St W of

W	E	
1 = N S J		
1+27.5	1+29.5	
+52	+54	
+80	+82	
2	2+02	
+23	+25	
+52	+54	
+78	+80	
3+02	3+04	
+29	+31.5	
+53	+55	
+69	+71	4.0 in sec
T St = 4+40		
5+01	5+03	
+25	+27	
+53	+55	
+78.5	+80.5	
6+03	6+05	
6+27	+29	
+51	+53	
+75	+77	

W	E	
6+98	7+00	
7+24.5	+26.5	
+45.5	+47.5	07+80
H St = 8+30		
8+95	8+97	
9+19	9+21	
+47	+49	
+73	+75	
+97	10+1	
11+24	+26	
+50	+52	
+74	+76	
11	11+02	
11+24	+26	
+50	+52	11+80
G St = 12+20		
12+82	12+84	
13+06.5	13+08.5	
+32	+34	
+57	+59	
+82.5	+84.5	

8

W	E	
14+6.5	14+8.5	
+35	+37.5	
+56.5	+58.5	
+83	+85	
15+07	15+09	
+28	+30	15.60
F St = 16		
16+41	16+43	
+68	+70	
+90	+92	
17+14.5	17+16.5	
+38	+40	
+62	+64	
+87	+89	
18+11	18+13	
+34	+36	
+60.5	+62.5	
+85.5	+87.5	
19+10.5	19+12.5	19+40
E St	19+80	
20+18	20+20	

W	E
20+42	20+44
20+66	20+68
20+92	+94
21+18	21+20
+42	+44
+67	+69
+93	+95
22+17	22+19
+40	+42
+68	+70
+88	+90
D St	23+67.5
23+98	24
24+23	+25
+47	+49
+71	+73
+97	+99
25+23	25+25
+48	+50
+71	+73
+98	26
26+21.5	+23.5

← 3d St

W	E		W	E	
26+47	26+49	✓	32+07	32+09	✓
+71.5	+73.5	✓	+32	+34	✓
+88.5	+90.5	✓	+56.5	+58.5	✓
27 Inspec hole		✓	+81	+83	✓
C St 27+40			33+06	33+08	✓
27+77	27+79	✓	+31.5	+33.5	✓
28+02	28+04	✓	+58	+60	✓
+26.5	+28.5	✓	+83	+85	✓
+51	+53	✓	34+07	34+09	✓
+76.5	+78.5	✓	+32	+34	✓
29+03	29+05	✓	34+60 Inspec Pipe		
+28	+30	✓	A St = 35		
+53	+55	✓	35+37.5	35+39.5	✓
+78	+80	✓	+67.5	+89.5	✓
30+02	30+04	✓	36+38	36+40	✓
+27	+29	✓	+88	+90	✓
+52	+54	✓	37+38	37+40	✓
+80 Inspec Pipe			+88	+90	✓
B St = 31+20			38+11.5	38+13.5	✓
31+57	31+59	✓	38+40 Inspec		✓
+81.5	+83.5	✓	A St = 38+80		

W	E		W	E

✓ 3d St

W	E
39+18.5	39+20.5 ✓
+67	+69 ✓
40+38	40+40 ✓
+66.5	+68.5 ✓
41+18	41+20 ✓
+67	+69 ✓
+93.5	+95.5 ✓
42+20	Inspec
42+60	Beech
42+98	43 ✓
43+48	+50 ✓
+97	+99 ✓
44+49	44+51 ✓
+99	45+1 ✓
45+48	45+50 ✓
+72.5	+74.5 ✓
46	Inspec ✓
46+40	Cedar
46+79	46+81
47+28	+30
+78	+80

W	E
48+27	48+29
+77	+79
49+27	49+29
+52	+54
49+80	Inspec
Date	

Station 50.93 end of wooden box and beginning of 6 in pipe

51.08	51.10
32	34
57	59
82	84
52.08	52.10
.31	.33
.57	.59
.81	.83
53.07	53.09
.32	.34

3c St

✓ 10

W	E
53×60 Inspector south	
0 line of Elm	
5378 6 in T east.	
for Elm St.	
5437	54.39
62	64
87	89
5512	5514
.37	.39
.62	.64
.87	.89
56.12	56.14
37	39
62	64
87	89
5712	5714
5740 Inspector	
So line Fir Strut	
5758 6 in T east	
for Fir Strut	
5816	58.18
42	44

W	E
58.67	58.69
92	.94
59.17	59.19
.42	.44
.67	.69
.92	.94
60.17	60.19
.42	.44
.67	.69
.92	.94

61.14 6 in T for Grape West.

61.16 6 in T east for Grape

6120 end of pipe so line of grape.

Entered

1

3rd Street

South from Hawthorne North of Hawthorne

E	W		W	E	
061	063		0x20	6 in Y	South
86	88		78	x80	
109	1.11		1.28	1.30	
84	36		.78	.80	
60	62		2.28	2x30	
84	86		.78	.80	
209	2.11		3.28	3.30	
355	37.5		.53	.55	
60	62			76	Extra
85	87		4.55	4.57	
310	3.12		80	82	
345	36.5		5.04	5.06	
361 end of Pipe			30	32	
in Flushtank			54	56	
Entered			78	80	
			605	607	
			81	33	
			54	56	
			80	82	
			7.04.5	7.06.5	
			30.5	32.5	
			7x56 end of pipe in Flushtank		

Entered

4 St

W	E		W	E
0.98	1.00			
1.23	1.25			
48	50			
1.76	1.78		7.03	7.05
1.97	1.99		7.27	7.29
2.21	2.23		7.53	7.55
2.475	2.495		7.80	Inspec
2.73	2.75		T =	8.20
2.975	2.995		8.58	8.60
3.23	3.25		8.835	8.855
3.48	3.50		9.08	9.10
3.72	3.74		9.32	9.34
4	Inspec		9.58	9.60
J St	4.40		9.82	9.845
4.78	4.80		10.08	10.10
5.02	5.04		10.33	10.35
5.28	5.30		10.58	10.60
5.53	5.55		10.83	10.85
5.78	5.80		11.075	11.095
6.025	6.045		11.335	11.355
6.275	6.295		11.58	Inspec
6.53	6.50		H St	12.10
6.785	6.805		12.56	12.58

W	E		W	E
12.83	12.85		18.37	18.39
13.08	13.10		18.625	18.645
13.325	13.345		18.88	18.90
13.58	13.60		19.13	19.15
13.83	13.85		19.40	Inspec
14.07	14.09		F St	19.80
14.33	14.35		20.18	20.20
14.58	14.60		20.43	20.45
14.83	14.85		20.68	20.70
15.075	15.095		20.93	20.95
15.34	15.36		21.18	21.20
15.60	Inspec		21.43	21.45
Q St	16.00		21.68	21.70
16.37	16.39		21.925	21.945
16.63	16.65		22.175	22.195
16.88	16.90		22.43	22.45
17.13	17.15		22.695	22.715
17.38	17.40		22.93	22.95
17.63	17.65		23.20	Inspec
17.875	17.895		E St	23.60
18.13	18.15		24.0	24.02

4th St

W	E		W	E		W	E		W	E
24.23	24.25		29.765	29.785		35.63	35.65		42.98	43.00
24.48	24.50		30.03	30.05		.89	.91		43.48	.50
24.725	24.745		30.265	30.285		36.135	36.155		43.98	44.00
24.98	25.00		30.525	30.545		.38	.40		44.48	.50
25.23	25.25		30.81	Insp		.63	.65		.98	45.00
25.48	25.50		31.20	C St		.87	.89		45.48	.50
25.725	25.745		31.57	31.59		37.14	37.16		.73	.75
25.97	25.99		31.82	31.84		.38	.40		46.00	Inspec
26.225	26.245		32.07	32.09		.63	.65		Beech	46.40
26.47	26.49		32.31	32.33		.88	.90		46.77	46.79
26.73	26.75		32.565	32.585		38.125	38.145		47.27	47.29
27.00	Inspec		32.835	32.855		38.40	Inspec		.76	.78
27.40	D St		33.08	33.10		A St	38.80		48.28	48.30
27.77	27.79		33.325	33.345		39.18	39.20		.78	.80
28.01	28.03		33.58	33.60		.675	.695		49.28	49.30
28.28	28.30		33.825	33.845		40.175	40.195		.53	.55
28.515	28.535		34.075	34.095		.68	.70		49.80	Inspec
28.78	28.80		.325	.345		41.17	41.19		Cedar	50.20
29.03	29.05		34.60	Inspec		.68	.70		50.58	50.60
29.28	29.30		35.40	B St		42.20	Inspec		51.08	51.10
29.525	29.545		35.38	35.40		Oak	42.60		.58	.60

4th St

W	E		W	E
52.09	52.11		62.49	62.51
.575	.595		63.005	63.02
53.08	53.10		.47	.49
53.60	Inspec		.99	64.01
Date	54.00		64.47	.49
54.20			65.00	Inspec
			Grape	65.40
			65.78	65.80
			66.28	66.30
			.78	.80
			67.29	67.31
			7.77	7.79
Elm	57.80		68.28	68.30
58.18	58.20		68.80	Inspec
.67	.69		Hawth'n	69.20
59.18	59.20		69.58	69.60
.68	.70		70.07	70.09
60.18	60.20		.57	.59
.68	.70		.82	.84
61.28	Inspec		71.08	81.10
61.99	62.01		.58	.60

Woodend Sta

Bay from 54.20 to 58.17 = 399 ft

W	E		W	E
72.08	72.10			
.33	.35			
72.60	Inspec			
Ivy	73.00			
73.38	73.40			
.88	.90			
74.38	74.40			
.88	.90			
75.38	75.40			
75.90	Flush	Paid		

Entered

5th Street South of K

W	East	W	East
0×42	so line of K		
0×41	0×43		
×65.5	×67.5		
90.5	92.5		
1×15.5	1×17.5		
1×40.5	×42.5		
×65.5	×67.5		
×90	×92		
2×15.5	2×17.5		
×40	×42		
×65	×67		
×75	×77		
2×80	end of pipe		
4 ft for Curve			
284 total length of the line.			

W	E	W	E	W	E	W	E
K St							
1.01	10.2	6.535	6.555	12.58	12.60	18.15	18.15
1.22	1.24	.79	.81	.835	.855	.35	.37
.48	.50	7.03	7.05	13.08	13.10	.63	.65
.735	.755	.285	.305	.335	.355	.87	.89
.98	2.00	.53	.55	.59	.61	19.93	19.15
2.24	.26	7.80	Inspec	.835	.855	19.40	Inspec
.485	.505	I St	8.20	14.09	14.11	F St	19.80
.73	.75	8.58	8.60	.33	.35	East 1983 20.18	20.20
.99	3.01	.83	.85	.58	.60	.43	.45
3.23	.25	9.085	9.105	.83	.85	.685	.705
.485	.505	.33	.35	15.08	15.10	.93	.95
.735	.755	.59	.61	.32	.34	21.185	21.205
3.96	Inspec	.83	.85	15.60	Inspec	.43	.45
J St	4.40	10.08	10.10	G St	16.00	.68	.70
4.785	4.805	10.33	.35	16.38	16.40	.93	.95
5.03	5.05	.64	.66	.63	.65	22.17	22.19
.285	.305	.83	.85	.88	.90	.43	.45
.53	.55	11.09	11.11	17.135	17.155	.67	.69
.78	.80	.335	.355	.375	.395	.93	.95
6.04	6.06	11.60	Inspec	.63	.65	23.20	Inspec
.285	.305	H St	12.10	.87	.89	F St	23.60

5 St

W	E
23.97	23.99
24.23	24.25
.45	.45
.93	.95
.98	25.00
26.22	26.24
.45	.45
.75	.75
.97	.99
26.22	26.24
.47	.49
.73	.75
27.00 Dublin	
DSt 27.40	
27.78	27.80
28.01	28.03
.28	.30
.53	.55
.78	.80
29.03	29.05
.27	.29

W	E
29.53	29.55
.77	.79
30.03	30.05
.25	.25
.53	.55
30.85 Dublin	
CSt 31.20	
31.58	31.60
.83	.85
32.08	32.10
.33	.35
.56	.60
.83	.85
33.06	33.08
.33	.35
.58	.60
.83	.85
34.07	34.09
.33	.35 Reason
34.56 Dublin	
BSt 35.40	

W	E
35.38	35.40
.63	.65
.85	.85
36.13	36.15
.37	.39
.63	.65
.88	.90
37.13	37.15
.38	.40
.63	.65
.88	.90
38.13	38.15
38.40 Dublin	
ASt 38.80	
39.18	39.20
.68	.70
40.19	40.21
.68	.70
41.18	41.20
.68	.70
.93	.95

W	E
42.20 Dublin	
Ash 42.60	
42.98	43.00
43.48	43.50
.98	44.00
44.48	44.50
.98	45.00
45.48	.50
.73	.75
46.00 Dublin	
Beech 46.40	
46.78	46.80
47.28	47.30
.78	.80
48.28	48.30
.78	.80
49.28	49.30
.68	.50
49.80 Dublin	
Cedar 50.20	

5 St

W	E	W	E	W	E	W	E
50.58	50.60	60.68	60.70				
51.08	51.10	.93	.95	68.96	connected		
.58	.60	61.20	Inspec	69.59	69.61		
52.08	52.10	Fin	61.60	70.09	70.11		
.586	.605	61.98	62.00	.59	.61		
53.08	53.10	62.48	62.50	70+85	connected		
.33	.35	.98	63.00	71+8	71+10		
53.60	Inspec	63.48	.50	+59	+61		
Date	54.00	.98	64.00	72+8	72.10		
54.385	54.405	64.48	.50	.34	.36		
.88	.90	.73	.75	72+60	Inspec Ivy		
55.38	55.40	65	Inspec	73.38	73.40		
55.88	55.90	Grape		.88	.90		
56.38	56.40			74.38	74.40		
56.88	56.90	65.78	65.80	.89	.91		
57.12	57.14	.28	.30	75.39	75.41		
57.40	Inspec	.78	.80	[illegible]	[illegible]		
Elm	57.80	67.28	67.30	76.13	76.15		
58.18	58.20	.78	.80	76.20	6x6 Y		
.68	.70	68.28	68.30	76.35	Flushtank		
59.18	59.20	.54	.56				
.68	.70	68.80	Inspec				
60.185	60.205	Hawthorn					

Juniper Entered

5 St

6 St

W	E
L St	
1.02	1.04
22	24
48	50
72	74
975	995
2.215	2.235
47	49
72	74
97	99
3.22	3.24
47	49
72	74
4.00 Inspec	
K St	440
4.76	4.78
5.02	5.04
27	29
515	535
77	79
6.01	6.03
28	30

Taken up

W	E
6.52	6.54
76	78
7.005	7.025
26	28
52	54
7.80 Inspec	
J St	820
8.58	8.60
82	84
9.08	9.10
34	36
58	60
83	85
10.085	10.105
33	35
57	59
83	85
11.075	11.095
31	33
11.60 Inspec	
I St	1200

W	E
12.36	12.38
63	65
865	885
13.12	13.14
36	38
62	64
86	88
14.13	14.15
37	39
63	65
89	91
15.13	15.15
15.35 Inspec	
H	15.90
16.38	16.40
63	65
88	90
17.125	17.145
38	40
62	64
88	90

W	E
18.13	18.15
38	40
62	64
88	90
19.12	19.14
19.40 Inspec	
G St	1980
20.175	20.195
43	45
68	70
915	935
21.16	21.18
42	44
68	70
93	95
22.18	22.20
43	45
68	70
93	95
23.18 Inspec	
F Street	

1

6 St

23.98	24.0		29.77	29.79	
.225	24.5		30.03	30.05	
.48	.50		.27	.29	
.73	.71	?	.53	.55	
.98	25.00		30.80	Inspec II St	
25.23	.25		31.59	31.61	
.47	.49		.83	.85	
.73	.75		32.08	32.10	
.98	26.00		.33	.35	
26.23	26.25		32.58	32.60	
.48	.50		.83	.85	
.73	.75		33.08	33.10	
27.00	Inspec		.35	.37	
E. Street			.58	.60	
27.78	27.80		.83	.85	
28.03	28.05		34.10	34.12	
.28	.30		.33	.35	
.53	.55		34.60	Inspection	
.78	.80			C Str	
29.035	29.055		35.38	35.40	
.28	.30		.63	.65	
.53	.55				

6 St

W	E	W	E	W	E	W	E
35.88	35.90	41.18	41.20	49.80	Inspec		
36.13	36.15	.44	.46		Beech		
.38	.40	.69	.71	50.58	50.60		
.63	.65	42.20	Inspec	51.08	51.40		
.88	.90		A St	.58	.60		
37.13	37.15	42.99	43.01	52.09	52.11		
.38	.40	43.48	43.50	.58	.60		
.63	.65	.97	.99	53.09	53.11		
.87	.89	44.48	44.50	53x60 Inspector			
38.12	38.14	.98	45.00	So lim Cedar			
38.21	8 to 6 Reducer	45.47	.49	54x38	54x40		
38.40	Inspec	.74	.76	.88	.90		
3	B 8th	46.00	Inspec	55.38	55x40		
39.18	39.20		ash	.88	.90		
.43	.45	46.78	46.80	56x38	56x40		
.68	.70	47.28	47.30	.88	.90		
.92	.94	.77	.79	57x40 Flush tank			
40.19	40.21	48.28	48.30	So lim date			
.43	.45	.79	.81	Entered			
.68	.70	49.27	49.29				
.94	.96	49.54	49.56				

7 St

W	E	W	E	W	E	W	E
0.98	1X00						
2 = N. Side L Street							
1+2	1+4	6+51.5	6+53.5	12+38	12+40	18.13	18.15
+24	+26	+78	+80	+62.5	+64.5	.38	.40
+48	+50	7+3.5	7+5.5	+88	+90	.63	.65
+72	+74	+28	+30	13+13	13+15	.87	.89
+98	2 00	+53	+55	+37.5	+39.5	19.14	19.16
2+22	+24	7+80	Inspec	+63	+65	19.40	Inspec
+48	+50	8+20	J St	+88	+90	19.80	G St
+73	+75	8+58	8+60	14+12.5	14+14.5	20.19	20.21
+97	+99	+83	+85	+38	+40	.42	.44
3+23	3+25.5	9+7	9+9	+63	+65	.67	.69
+48	+50	+33.5	+35.5	+88	+90	.93	.95
+72	+74	+58	+60	15+13	15+15	21.18	21.20
4 Inspec		+83	+85	15+27	Inspec	.42	.44
4+40	K St	10+7.5	10+9.5	15+70	H St	.67	.69
4+78	4+80	+33	+35	16+38	16+40	.93	.95
5+3	5+5	+59	+61	.63	.65	22.18	22.20
+28	+30	+82	+84	.87	.89	.42	.44
+52	+54	11+7	11+9	17+12.5	17+14.5	.68	.70
+78	+80	+32	+34.5	.37.5	.39.5	.94	.96
6+[illegible]	6+[illegible]	11+60	Inspec	.62	.64	23.20	Inspec
+28	+30	12	I ST	.87	.89	23.60	T St

7 St

W	E	W	E	W	E		
23.98	24.00	29.54	29.56	35.39	35.41	40.93	40.95
24.23	24.25	.78	.80	.63	.65	41.19	41.21
.48	.50	30.03	30.05	.89	.91	.43	.45
.73	.75	.28	.30	36.13	36.15	.69	.71
.98	25.00	.53	.55	.39	.41	.73	.95
25.42	.26	30.78	Inspec	.63	.65	42.20	Inspec
.47	.49	D St	31.20	.88	.90	A	Street
.73	.75	31.48	31.60	37.12	37.14	42.78	43.00
.98	26.00	.82	.84	.38	.40	43.48	43.50
26.23	.25	32.09	32.11	.64	.66	.98	44.00
.48	.50	.53	.35	.88	.90	44.46	.48
.73	.75	.58	.60	38.14	38.16	.70	.72
27.00	Inspec	.83	.85	38.40	Inspec	.98	45.00
F St	27.40	33.08	33.10	38.80	B St	45.48	.50
27.78	27.80	.33	.35	39.18	39.20	.74	.76
28.00	28.06	.59	.61	.44	.46	46.00	Inspec
.28	.30	.84	.86	.68	.70	ash	St
.53	.54	34.08	34.10	.93	.95	46.78	46.80
.78	.80	.34	.36	40.19	40.21	47.29	47.31
29.02	29.00	34.60	Inspec	.44	.46	.79	.81
.28	.30	C St	35.50	.68	.70	48.29	48.31

1

7 St

48.79	48.81
49.29	49.31
49.55	.55
49.80	Inspec
Buch. St.	
50.58	50.60
51.08	51.10
.58	.60
52.58	52.10
52.59	52.61
53.08	10
33	35
53.60	Inspection Cede
54.38	40
89	91
55.38	55.40
89	91
56.38	56.40
89	91
[illegible]	end of pipe Date

Entered 8th 88

103 pieces 8 in Pipe
21 4X8 Y for
6th Street

Feb 4th

8th Street 55

		W	E
8th Street		5.13.5	5.15.5
North of N		38	40
W	E	62	64
Begart at O		88	90
0.59	0.61	6 12.5	6.14.5
1.51.5	1.53.5	38	40
58	60	62.5	.64.5
83	85	88	.90
2.07.5	2.09.5	7 14	7 16 is
.33	.35	25 ft So of L St	
.57.5	595	8X20 is end of pipe	
.83	.85	8+20 is = to Sta 1	
3.08	3.10	N.L. L St	
32	34	Entered	
3X60 Inspection			
O South line M			
376.6 in Y for M East			
378.6 in Y for " West			
4.37	4.39		
.62.5	.64.5		
.88	.90		

W	E
1+2	1+4
+23	+25
+46.5	+48.5
+73	+75
+96	+98
2+23	2+25
+48	+50
+72	+74
+93	
3+22	+24
+48	+50
+72	+74
4 Inspec	
4+40 KSt	
4+78	4+80
5+2	5+4
+28	+30
+52	54.5
+78	+80
6+2	6+4.5
+25	+30.5

W	E
6+52	6+54
+78	+80
7+2	7+4.5
+28	+30
+52	+54.5
7+80 Inspec	
8+20 JSt	
8+58	8+60
+83	+85
9+8.5	9+10.5
9+33	+35
+58	+60
+83	+85
10+7	10+9
+33	+35
+59	+61
+83	+85
11+7	11+9
+33	+35
11+60 Inspec	
12 = ISt	
12+33	12+35

W	E
12+63	12+65
+88	+90
13+13	13+15
+37.5	+39.5
+63	+65
+88	+90
14+12.5	14+14.5
+38	+40
+63	+65
+88	+90
15+13	15+15
+40 Inspec	
15+90 HSt	
16+38	16+40
+63	+65
+88	+90
17+13	17+15
38	40
63	66
88	90
18 13	18 15

W	E
18.34	18.36
.62	.65
88	.90
19.13	19.15
19.40 Inspec	
GSt 19.80	
20.17	20.19
.38	.40
.63	.65
.88	.90
21.18	21.20
.43	.45
.67	.69
.93	.95
22.18	22.20
.42	.45
.68	.70
.93	.95
23.20 Inspec	
FSt 23.60	

8 St

W	E		W	E	
23.98	24.00		30.53	30.55	
24.23	24.25		30.80	Insp.	
47	.49				
73	.75		31.00	End of pipe	
97.5	99.5		31.20	D St	
25.22	25.24		31.58.5	31.60.5	no line of D St
47	.49		.84	.86	
73	.75		32.08	32.10	
98	26.00		32.22	Extra Y	
26.23	26.25		.34	.36	
48	.50		.59	.61	
73	.75		83	85	
27.00	Inspec		33.09	33.11	
E St	27.40		.33	.35	
78	.80		.50	Extra Y	
28.02	28.04	29.05 .80 .65 .79	.58	.60	
27	.29		.845	.865	
52	.54	29.03 .28 .53 .77	34.08	34.10	
* 77	.79		.33	.35	
30.00	30.05		34.60	Inspection	
28	.30		O so line of C St		

8th Street

W	E		W	E
	35x40 no line of C			
35.39	35.41		40x69	40x71
63	.65		93	95
89	91		41x18	41x20
36x13	36.15		.44	.46
39	41		.67	.69
63	.65		41x92	41.94
89	91		42.20	Inspector
37.13	37.15		So line A Street	
38	40		42.395	6 in Y
64	66		West for A St	
88	90		42.98	43.00
38.12	38.14		43.225	24.5
38.40	Inspection		48	50
O So line of B St			72.5	74.5
39.20	no line of B St		97.5	99.5
39x19	39x21		44.23	44.25
.44	.46		48	50
.69	.71		73	75
93.5	95.5		97	99
40x16	40x18		45.23	45.25
.43	.45		47.5	49.5

✓ 8 St

W	E		W	E	
45.72	45.74			50.82.5	50.84.5
46.00	So line of ash inspec			51.07	51.09
46.17.5	- 6 in Y west for			33	35
ash	Strut			565	.58.5
46 78	46.80			825	.84.5
47 02	47.04			52.06.5	52.08.5
26.5	.28.5			.32.5	34.5
53	.55			.58	.60
.77.5	.79.5			.81.5	.83.5
48.04.5	48.03.5			53.08	53.10
.28	.30			32	34
.52.5	.54.5			5360	Inspect
78	80			So. line	Ceder
49.02.5	49.04.5			53.78.5	- 6 in Y
.28	.30			west for	Ceder
52.5	54.5			54.38	54.40
49.80	Inspector So line			.62.5	.64.5
Beach	Strut			.86.5	.88.5
49.98.5	- 6 in Y west			5512.5	55.14.5
for Beach	Strut			38	40
50.58	50.60			625	645

8th Street

28

W	E				
5588	5590				
5613	5615				
.37.5	.39.5				
61.5	.63.5				
88	90				
57.05.5	57.07.5				
5715	end of Pipe				
for Flushtank					
Entered					

9 St

W	E		W	E
1+2	1+4		6.28	6.30
+23	+25		53	55
+48	+50		78	80
+73	+75		7.03	7.05
+98			28	30
2+22	+24		53	55
+47	+49		7.80	Dupl.
+73	+75		JSt	8.20
+98			8.03	8.05
3+22	+24		8.28	8.30
+47	+49		9.08	9.10
+72	+74		33	35
4 Dupl.			58	6.00
4+40 = KSt			82	85
65	67		10.08	10.10
77	80		33	35
5.03	5.05		58	6.00
27	29		83	85
53	55		11.08	11.10
77	79		33	35
6.02	6.04			

W	E		W	E
11.60	Dupl.		17.63	17.65
ISt	12.00		88	90
12.38	12.40		18.13	18.15
62	64		38	40
88	90		62	64
13.13	13.15		89	91
38	40		19.14	19.16
63	65		19.40	Dupl.
88	90		GSt	19.80
14.13	14.15		20.18	20.20
38	40		43	45
63	65		68	70
89	91		93	95
15.13	15.15		21.18	21.20
15.40	Dupl.		43	45
HSt	15.90		67	69
16.38	16.40		95	97
63	65		22.18	22.20
88	90		43	45
17.12	17.14		68	70
38	40		93	95

9th St

W	E		W	E		W	E		W	E	
2320	Inspec		29.03	29.05		34×60	Inspection	C	41×18	41×20	
F St	23.60		.28	.30		35.38	35.40		.44	.46	
2398	24.00		.54	.56		.63	.65		.68	.70	
2423	.25		.78	.80		.88	.90		.93	.95	
.48	.50		30.04	30.06		36.14	36.16		42.20	Inspection	A
.73	.75		.29	.31		.38	.40		42.98	43.00	
.98	25.00		.53	.55		.63	.65		.48	.50	
2623	.25		30.78	Inspec		.88	.90		.98	44.00	
.48	.50		D St	31.20		37.13	37.15		.48	.50	
.73	.75		31.59½	31.61½		.38	.40		.98	45.00	
.97	.99		31.83	31.85		.63	.65		45.48	.50	
2623	26.25		32.08	32.10		.88	.90		.73	.75	
.48	.50		.34	.36		38.12½	38.14½		46×00	Inspection	A
.73	.75		.60	.62		38×40	Inspection	B	46.78	46.80	
2700	Inspec		.84	.86		39.19	39.21		47.29	47.31	
F St	27.40		33.08	33.10		.43	.45		.78	.80	
2778	27.80		.33	.35		.69	.71		48.28	48.30	
2803	28.05		.59	.61		.93	.95		.78	.80	
.28	.30		.83	.85		[illegible]	40×20		49.29	49.31	
.53	.52		34.09	34.11		.43	.45		.54	.56	
.78	.80		.33	.35		.68	.70		49×80	Inspection	Bu
						.93	.95				

✓ 9 St

W	E		W	E	
50.58 ✓	50X60 ✓				
51.09 ✓	51.11 ✓				
.58 ✓	.60 ✓				
52.09 ✓	52.11 ✓				
.58 ✓	.60 ✓				
53.08 ✓	53.10 ✓				
.34 ✓	.36 ✓				
53.60 ✓	Inspection	Cedar			
54.39	54X41				
88	90				
55.38	55X40				
88	90				
56X39	56X41				
88	90				
57X14 end of pipe					

Entered
May 8th '88
Entered

W	E		W	E
			3X55 Inspection	
			9 ft no of Prop lim	
			3.64.5 6 in y (on M	
			East for M Street	
			4.23.5	4.25.5
			.48	50
			.74	76
			.98.5	5X00.5
			5.23	5.25
9 Street			.42	51
North of N {Bregan Station 0}			.74	76
0X45	0X47		.98	6X00
.69.5	.71.5		6X24	6X26
.96	.98		.49	.51
1X20	1X22		.73	.75
.42.5	.44.5		.97.5	.99.5
.69	.71		7X09 end of	
.93.5	.95.5		Pipe ~~on~~ ~~#~~ 15	
2X18	2X20		ft south of L	
44	46		Entered	
68	70		May 8th '88	
93	95		Entered	
3X18	3X20			

10th Street

W	E		W	E
Begin Sta. 0				
0X46	.48		6X01	6X03
.71	.73		.25	.27
.97	.99		.50	.52
1X21	1X23		.75	.77
.45	.47		7X00	7X02
.71	.73		7X085	indg Angle
.97	.99		Track St. 17	Hooked
2X21	2X23		line on L	Street
.46	.48		to	31
.71	.73		Begin at Sta.	7X00
.97	.99		side of L	
3X21	3X23		1X03	1X05
3X48			24.5	24.5
O			.49	.51
4X26	4X28	?	.73	.75
.51	.53		.98	2X00.5
.76	.78		2X24	2X26
5X01	5X03		.49	.51
.26	.28		.74	.76
.51	.53		.98	3.0a
.76	.78		3.23	3.25

10th Street

W	E		W	E
3.48	3.50		8X84	8X86
.73	.75		9X09	9X11
4X00	Inflection		.32.5	.34.5
O	K Street			
4X20	6X63		.57.5	.59.5
pointed East			.83	.85
4X79	4X81		10X08	10X10
5X03	5X05		.33	.35
.28	.30		.58	.60
.53	.55		.83	.85
.78	.80		.98	4 thru 9 west
6X04	6X06		11X085	11X105
.29	.31		.33	.35
.53	.55		11X60	Inflection
O				I Street
.78	.80		11X77.5	6 in 9 for I Street
7X03	7X05		12.38	12.40
.28	.30		.65	.67
.53	.55		.88	.90
7X80	Inflection		13X13	13X15
O	J Street			
7X98	6X63		.38.5	.40.5
for J Street East			.63	.65
8X59	8X61		.88	.90

10th Street

W	E		W	E	
			19X58	6 in y for G Str	
14X13	14X15		20X18	20X20	
.38	.40		48	45	
.68	.65		68	70	
87,5	89,5		93	95	
15X13	15X15		21X17	21X19	
15,40	Inspector		.43,5	.45,5	
	O H Street		68	70	
15,65	6 in y for		93	95	
	H Street East				
16,38	16X40		22X18	22X20	
.63	.65		.45	.45	
.87,5	.89,5		.67,5	.695	
17X13	17X15		.93,5	.955	
.37,5	.39,5		23X20	Inspector	
				O F Street	
.63	.65		23X38	6 in y East	
				for F Street	
.85	.90				
18X12	18X14		23,98,5	24,00,5	
.38	.40		24X23	X25	
62	64		48	50	
88	90		72	74	
19X13	19X15		98	25X00	
19X40	Inspector		25X23,5	X25,5	
O	G Street				

* Error 10. Street

W	E		W	E	
25X48,0	25X50		30X28	30X30	✓
72,5	74,5 ✓		53,5	55,5	✓
* 95	99 ?		30X80	Inspector	
				O D Street	
26X23	26X25 ✓				
47,5	49,5 ✓		30X98	6 in y	✓
				East for D Street	
72,5	74,5 ✓				
27X00	Inspector		31X58	31X60	✓
O E Street ✓			83	85	✓
27X18	6 in y ✓		32X08	32X10	✓
East for E Street			33	35	✓
27X77	27X79 ✓		58	60	✓
28X03,5	28X05,5 ✓		82	84	✓
28	30 ✓		33X08	33X10	✓
53,5	55,5 ✓		32	34	✓
78	80 ✓		58	60	✓
29,02,5	29,04,5 ✓		83	85	✓
28,5	30,5 ✓		34X07	34X09	✓
53	55 ✓		32,5	34,5	✓
Extra y	71 East		34X60	Inspector	
				O South Side of	
77	79 ✓			C Street	
30X03	30X05 ✓		34X79	6 in y for	✓
				C Str. East	

10th Street

W	E		W	E	
35X38	35X40	✓	40X165	40,18,5	✓
62	64	✓	.43	.45	✓
88	90	✓	,67	.69	✓
36,09	Extra Y remaining west	✓	,925	[illegible]45	✓
36X13	36X15	✓	41,18	41,20	✓
,37	39	✓	,425	44,5	✓
,61,5	,63,5	✓	68	70	✓
88	90	✓	93	95	✓
37X13	37X15	✓	42,20	Inspector	✓
38	40	✓	So Side A Street		
62	64	✓	42X38	6 in Y for	✓
88	90	✓	A Street east		
3812	3814	✓	42975	42,995	✓
38X40	Inspection		43,165	Extra Y for west side	✓
O S	Side B St		43,47	43,49	✓
3859	6 in Y east		97	99	✓
for B Street			44,49	44,51	✓
3918	39,20	✓	98	45,00	✓
,43	,45	✓	45,47	,49	✓
,66,5	,68,5	✓	73	75	✓
93	95	✓	46,00	Inspection so	✓
			O Side of Ash		

10

W	E		W	E	
46X17,5	6 in Y west	✓	53X60	Inspection	✓
for Ash Street			O So line of Cedar		
46X78	46X80	✓	53X80	6 in Y west	✓
47X28	47X30	✓	for Cedar		
78	80	✓	54,38	54,40	✓
48,27	48,29	✓	88	90	✓
,77	,79	✓	55,36,5	55,38,5	✓
49X27,5	49X29,5	✓	,87,5	,89,5	✓
,53	,55	✓	56,375	56,39,5	✓
49,80	Inspector	✓	88	90	✓
So line of Beach			57X13,5	57X15,5	✓
49X98	6 in Y west	✓	57,38,5	end of	✓
for Beach St.			Pipe on 10th St		
50X58	50X60	✓	So line of Date		
Brap line of Beach			Entered		
51,08	51,10	✓			
,575	,595	✓			
52,08	52,10	✓			
52X57	52X59	✓			
53X07	53X09	✓			
34	36	✓			

11th Street South of L

W	E		W	E
0×46	.48		.99	6.01
.69	.71		6×24	×26
.94	.96		.50	.52
1×19	1×21		.75	.77
.94	.46		.99	7×01
.69	.71		7×08	end of Pike
.94	.96		in Lower 11st	
2×19	2×21			
.44	.46		11th Street	
.69	.71		North of L	
.94	.96			
3×19	3×21		1×04	×06
3×	.44		.24.5	.26.5
	O inspector		.49	.51
4×25	4×27		.74	.76
.50	.52		.99	2×01
.74	.76		2×25	2×27
5×00	5×02		.48	.50
.24	.26		.73	.75
.50	.52		.98	3×00
.74	.76		3×23	×25

11th Street

W	E		W	E	
3×48	3×50		9×33	9×35	
×74.5	×76.5		×58	×60	
4×00 inspector		K	×63	×65	
			10×08	10×10	
4×78	×80		×33	×35	
5×03	5×05		×59	×61	
×28	×30		×84	×86	
.54	.56		11×29	11×31	
.79	.81		×24.5	×26.5	
6×04	6×06		11×6	8 inspector	✓
×28	×30		O		I
.55	.55		12×3.95	12×4.15	✓
.79	.81		.64.5	.66.5	✓
7×03	7×05		.89	.90	✓
.29	.31		13×13	13×15	✓
.53	.55		.38	.40	✓
7×80 inspector			.63	.65	✓
O		J	.83	.85	✓
8×57.5	×61.5		14×13	14×15	✓
.84	.86		.38	.40	✓
9×08	9×10		.63	.65	✓

Eleventh Street

Error

W	E		W	E	
14×88	14×90	✓	21×43	21×45	✓
15×13	15×15	✓	.68	.70	✓
15×40 Inspector		H ✓	.94	.96	✓
16×39	16×41	✓	22×18	22×20	✓
.64	.66	✓	# 22×36	22×43	✓
.89	.91	✓	.68	.70	✓
17×14	17×16	✓	.94	.96	✓
.39	.41	✓	23×20 Inspector		
.64	.66	✓	Cor 11 + A Street		
.89	.91	✓	24×00	24×02	✓
18×14	18×16	✓	.24	.26	✓
.39	.41	✓	.49	.51	✓
.64	.66	✓	.745	.76.5	✓
.89	.91	✓	.99	25×01	✓
19×14	19×16	✓	25×23	25×25	✓
19×40 Inspector		✓	[illegible]	[illegible]	✓
		G			
20×18	20×20	✓	.74	.76	✓
.44	.46	✓	.78	26×00	✓
.68	.70	✓	26×24	×26	✓
.94	.96	✓	.49	.51	✓
21×195	21×215	✓	.73	.75	✓

Eleventh Street

W	E		W	E
27×90 Inspector			32×84	32×86
O		E	33×09	33×11
27.79	27.81		.33	.35
28.04	28.06		.58	.60
.28	.30		.82	.84
.54	.56		34×09	34×11
.79	.81		.33	.35
29.03	29.05		34×60 Inspector	
.29	.31		O	
.54	.56			sing 34×795 for C Street East
.79	.81			
30.04	30.06		35×39	35×41
.29.5	.31.5		64	66
.54	.56		88	90
30×80			36×14	36×16
O Inspector			.38	40
South side 11 Street				
31×58	31×60		64	66
.84	.86		88	90
32×08.5	32×10.5		37×13	37×15
.34	.36		.25.5	Extension of
.58	.60		running west	

Eleventh Street

W	E	V	W	E
37.39	37.41			
.64	.66			
.83	.85			
38X13	38X15			
38X40 Inspection				
South side of B Street				
	38X60 6 in. Y running east			
39X19	39X21	✓		
44	46	✓		
68	70	✓		
94	96	✓		
40X19	40.21	✓		
40X44	40X46	✓		
69	71	✓		
94	96	✓		
41X19	41X21	✓		
.44	.46	✓		
68	70	✓		
94	96	✓		
42X20 end of				
Patio	11th St			

Entered

12th Street

W	E		W	E	
0×46	×48	✓	6×00	6×02	✓
.69.5	71.5	✓	.26	.28	✓
.96	.98	✓	50.5	52.5	✓
1×20.5	×22.5	✓	75.5	77.5	✓
.46	.48	✓	7×00	7×02	✓
.71	.73	✓	7×09	end of	
.97	.99	✓	pipe		
2×21	2×23	✓			
.46	.48	✓	North of L		
.71	.73	✓	Record Station		
96	98	✓	0.97	0.99	
3×20	3×22		1×23	1×25	
3×46			47	49	
O inspector			73	75	
4×24	4×26	✓	.97.5	.99.5	
.50	.52	✓	2×23	2×25	
.75	.77	✓	.47	.49	
5×01	5×03	✓	.73	.75	
25.5	27.5	✓	.97.5	.99.5	
.50	.52	✓	3×23	3×25	
76	78	✓	.47.5	.49.5	

Allentered Here.

12th Street.

W	E		W	E	
3×73.5	3×75.5		8×58	8×60	
98 Inspect so line			83	85	
O K Street			9×07	9×09	
4×19	6 in Y far		.33	35	
K St West.			.57.3	.59.5	
4×77	4×79	no line K St.	.83	85	
5×02	5×04		10.07.5	10.09.5	
28	30		.33	.35	
53	55		.57.5	.59.5	
78	80		82	84	
6×03	6×05		11.08.5	11.10.5	
.28	.30		32.5	34.5	
.52.5	.54.5		1158 Inspector		
78	80		O so line of I St.		
7×02.5	7×04.5		11.77. 6 in Y west for I		
.28	.30		12.39	12.41	
52.5	54.5		63	65	
7×80 Inspection			88	90	
O. So. line J. St.			13×12	13×14	
7×97 6 in Y West for J			38	40	
7×99 6 in Y East for J			63	65	

12th Street.

W	E
13.88.5	13.90.5
14.125	14.14.5
87	89
63	65
87	89.
15x135	15.155
15x40	Insp
O So line of H	
15.63	6 in Y west for H
16.38	16.40
.62	.64
.88	.90
17.13	17.15
.37	.39
.63	.65
.87	.89
18.13	18x15
.37.5	.39.5
63	65
.88	90
19x12	19x14

W	E
19x40	Inspection
O South line G street	
19.58	6 in Y west for
G Street	
19.60	6 in Y east
20.185	20.20.6
.42.5	44.5
68	70
94	96
21.18	21.20
.42	.44
.68	.70
.92	.94
22.18	22.20.
.42	.44
.66.5	.68.5
.93	.95
23x20	Inspect
O. So. Side F Street	
23.37	6 in Y west for F
23.97.5	23.99.5
24.21.5	24.23.5

12th Street

W	E
24x48	24x50
73	75
97	99
25.23	25.25
.47.5	.49.5
72	74
98	26.00
26x23	26x25
47	49
73	75
27x00	Inspection
O South side E. St.	
27.18	6 in Y west for E
27.78	27.80
28.02	28.04
.28	.30
.52.5	.54.5
.77	.79
29.03	29.05
.27.5	.29.5
.53	.55

W	E
29.77.5	29.79.5
30x02	30x04
.28	.30
.53.5	.55.5
30x80	Inspection
O So Side D St.	
30x99.5	6 in Y west
for D	
31.58	31.60
82.5	84.5
32.07	32.09
.33	.35
.59	.61
33.07	33.09
.33	.35
.57.5	.59.5
.83	.85
34.07.5	34.09.5
.33	.35
34.60	Inspection
O. C. Street.	

12th Street.

W	E		W	E
3479 6 in Y west fr. C Street.			40.68	40.70
			92	94
35.38	35.40	no line of C	41.18	41.20
62	64		.42.5	.44.5
.88.5	90.5		.66.5	.68.5
36.12.5	36.14.5		.93	.95
.37	.39		42.20	end of
.63	.65		pipe South line of A St	
.87	.89		Entered May 1st 88	
3713	3715		Entered	
.37.5	.39.5			
68	65			
88	90			
3813	3815			
38.40 Inspector				
0 So line of B St				
39.18.5	39.20.5			
.43	.45			
.67.5	.69.5			
.92	.94			
40.17.5	40.19.5			
.42	.44			

1

13th Street
13th Street

W	E		W	E
0X32	0X34		5.44	5.46
.63.5	.65.5		.68.5	.70.5
.86.5	.88.5		.93	.95
1X13	1X15		6.19	6.21
.37.5	.39.5		.42.5	.44.5
.63.5	.65.5		.69	.71
865	885		.93	.95
2.13.5	2.15.5		7.21 Inspector South	
.37.5	.39.5		0 line J Street	
.63.5	.65.5		7.39 6 in 9 west for J.	
.87.5	.89.5		7.99.5	8X01.5
3.14	3.16		8X24	8X26
3.41 Inspector			48	50
South line of K. Street			74	76
3.59	6 in 9 west for K.		99	9X01
3.61	6 in 9 East for K.		9X23.5	9X25.5
4.19.5	4.21.5		47.5	.49.5
.43.5	.45.5		73.5	75.5
.67.5	.69.5		.97.5	.99.5
.94	.96		10X24	10X26
5.18	5.20		48	50

13th Street

W	E		W	E
10X73	10X75			
11X01 Inspector South			16.04	16.06
0 line of I. Street.			.27.5	.29.5
11X195	6 in 9 west		.53.5	.55.5
for I Street			.79	.81
11X79	11X81		17.03	17.05
12X03.5	12X05.5		.27.5	.29.5
28	30		.53.5	.55.5
54	56		.77.5	.79.5
78	.80		18X03.5	18X05.5
13X02.5	13X04.5		.29.5	.31.5
.28.5	30.5		54	56
53	55		18X81 Inspector	80
79	81		line G Street	
14.03	14.05		18X995	6 in 9 west
.29	.31		for G Street	
.53.5	.55.5		19X59	19X61
1481 Inspector South			83.5	85.5
0 line of H Street			20X09	20X11
1504	6 in 9 west		.34	.36
for H Street			.59	.61
15.79	15.81		.83.5	.85.5

13th Street

W	E
21×075	21×095
.335	.35.5
.58	.60
.84	.86
22.08.5	22.10.5
.30.5	.32.5
2236 end of Pipe	
in Flush tank on	
H Street	
Entered May 9th 88	

South of D

W	E
0.43.5	0.45.5
.65	.67
.895	.91.5
115.5	117.5
.40	.42
.65.5	.67.5
90.5	.92.5
2×14	2×16
40	42

W	E
2×645	2×665
.90.5	.92.5
3×15	3×17
3×42 Inspect E. Street	
3×60 - 6 in Y West for E	
4×20.5	4.22.5
.45	.47
.695	.71.5
95	97
5.19.5	5.21.5
.44	46
70	72
945	965
6.20	6.22
.44.5	.46.5
69.5	.71.5
95	97
722 end end of	
Pipe for Flush tank	
Entered May 25	

13th Street

North from D

W	E
0.40.5	0.42.5
.65	.67
.91	.93
1.15	1.17
.39.5	.41.5
.65.5	.67.5
.89.5	.91.5
2.15.5	2.175
.41.5	.435
.66	.68
.90.5	.92.5
3.16	3.18
3×43 Inspect C. Street	
361 6 in Y West for C	
4.20	4.22
.46.5	.48.5
.70.5	.725
.95.5	975
5.21	5.23
46	48
70	72

Entered May 26 1888

W	E
5.96	5.98
6×21	6×23
.45.5	.47.5
.71	73
.95.5	.97.5
7.23 Inspector	
So line B Street	
7×40 - 6 in Y West	
7×42 - 6 in Y East	
8×00	8×02
.25	.27
.50	.52
.76	.78
9.00.5	9.02.5
.25	.27
.52	.54
.75.5	.77.5
10.00.5	10.02.5
25	27
51	53
75	77
10.97 after Y West	
11.03 end of pipe	
for Flush tank	
Entered	

13th Street
north of N to L

W	E		W	E
0.37.5	0.39.5		5.95.5	5.97.5
.64.5	.66.5		6×20	6×22
905	925		.45	.47
1.15	117		.71	73
.41	43		.955	.975
.65.5	675		7.23 end of pipe	
90	92		so line L Street	
214	216		Flushtank	
41	43		Entered	
65	67			
89	91			
3.16	3.18			
3.43	Inspection			
so line M Street				
4×205	4×225			
45	47			
71	73			
955	975			
5.20	5.22			
.46	48			
70	72			

I Street
West from 15th to 14th

	South	North
B W	0.44	0.46
C " W	.67.5	69.5
W-E-E	.94	96
W F	1.19	1.21
W H	.43	45
W I	.69	71
W J	.94	.96
	2.18	2.20
	.44	46
	.69	71
	3.03	3.05
	.18	20
	.42.5	.44.5
	69	.71
	.93.5	.95.5
	4.19	4.21

443 end of pipe
Flushtank east
line of 14th street
Entered

8 inch ✓ G Street
West from 15

So	No
.42.5	445
.65	67
.90	92
1×14.5	1×16.5
.39	.41
.63.5	.65.5
.90	.92
2.14.5	2.16.5
.40	.42
.64	.66
.89	.91
3.15	3×17
.39.5	.41.5
.64	.66
.90.5	.92.5

4×08 Inspector 36
ft east of 14th on G
4.44 - 6 in G South
for 14th Street
Entered

✓ J Street west
from 15 to 14

{ F Street ✓
from 15th to 14th 48

So	No	South	North
Began at	Station 0 0+42 west line	Began at	Station 0 0+36 west
0×40	0×42	0×34	0×36
64	66	59	61
90	92	84	86
1.15	1.17	1.08.5	1.10.5
40	.42	32.5	.34.5
64.5	.66.5	59	61
89	92	83	85
2×15	2×17	2.09	2.11
40	42	.34	.36
.65	67	.58.5	.60.5
.90	92	.82.5	84.5
3.14.5	3.16.5	3.09	3.11
40	42	33	.35
.64.5	.66.5	59	.61
90	92	83	.85
4.15	417	4.09	411
.34.5	.36.5	32	34

442 end of pipe for Flush tank
Entered

437 end of pipe for Flush tank
Entered ✓

Stationar.

Table 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	$2\frac{1}{3}$	21	49	41	$95\frac{2}{3}$
2	$4\frac{2}{3}$	22	$51\frac{1}{3}$	42	98
3	7	23	$53\frac{2}{3}$	43	$100\frac{1}{3}$
4	$9\frac{1}{3}$	21	56	44	$102\frac{2}{3}$
5	$11\frac{2}{3}$	25	$58\frac{1}{3}$	45	105
6	14	26	$60\frac{2}{3}$	46	$107\frac{1}{3}$
7	$16\frac{1}{3}$	27	63	47	$109\frac{2}{3}$
8	$18\frac{2}{3}$	28	$65\frac{1}{3}$	48	112
9	21	29	$67\frac{2}{3}$	49	$114\frac{1}{3}$
10	$23\frac{1}{3}$	30	70	50	$116\frac{2}{3}$
11	$25\frac{2}{3}$	31	$72\frac{1}{3}$	51	119
12	28	32	$74\frac{2}{3}$	52	$121\frac{1}{3}$
13	$30\frac{1}{3}$	33	77	53	$123\frac{2}{3}$
14	$32\frac{2}{3}$	34	$79\frac{1}{3}$	54	126
15	35	35	$81\frac{2}{3}$	55	$128\frac{1}{3}$
16	$37\frac{1}{3}$	36	84	56	$130\frac{1}{3}$
17	$39\frac{2}{3}$	37	$86\frac{1}{3}$	57	133
18	42	38	$88\frac{2}{3}$	58	$135\frac{1}{3}$
19	$44\frac{1}{3}$	39	91	59	$137\frac{2}{3}$
20	$46\frac{2}{3}$	40	$93\frac{1}{3}$	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