SEWERS.

906

F.B.

LEVEL BOOK

No. 410 E

IND

EUGENE DIETZGEN CO.

Drawing Materials and Surveying Instruments

NEW YORK. CHICAGO. SAN FRANCISCO.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

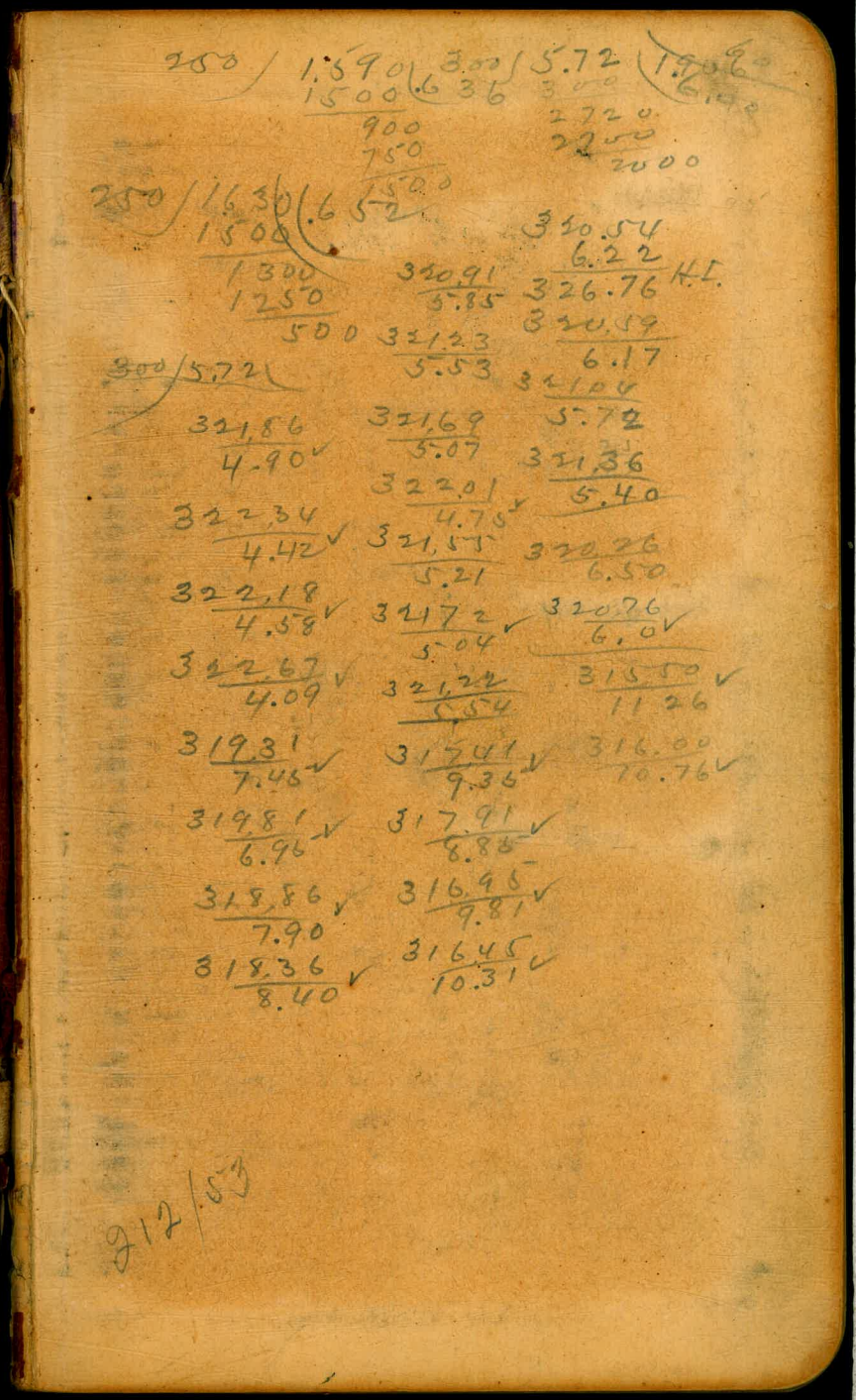
DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 20 FEET WIDE. SIDE SLOPES 1 TO 1.

FOR SINGLE TRACK EXCAVATION.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	10.0	10.1	10.2	10.3	10.4	10 5	10.6	10.7	10.8	10.9	0
1	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	1
2	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	2
3	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	3
4	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	4
5	15.0	15.1	15 2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	5
6	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	6
7	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17 9	7
8	18.0	18.1	18.2	18.3	18 4	18.5	18.6	18.7	18.8	18.9	8
9	19.0	19 1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	9
10	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	10
11	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	11
12	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22 9	12
13	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	13
14	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	14
15	25.0	25.1	25 2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	15
16	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26 8	26.9	16
17	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	17
18	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	18
19	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	19
20	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	20
21	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	21
22	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	22
23	33.0	33.1	33.2	33.3	33.4	33.5	33 6	33.7	33.8	33.9	23
24	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34 9	24
25	35.0	35.1	35.2	35.3	35.4	35.5	35 6	35.7	35.8	35.9	25
26	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36 7	36.8	36.9	26
27	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37 8	37.9	27
28	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38 7	38.8	38 9	28
29	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39 9	29
30	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	30
31	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	31
32	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	32
33	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	33
34	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	34
35	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	35
36	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	36
37	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	37
38	48.0	48.1	48.2	48.3	48.4	48.5	48 6	48.7	48 8	48.9	38
39	49.0	49.1	49.2	49.3	49.4	49.5	49.6	49 7	49.8	49 9	39
40	50.0	50.1	50.2	50.3	50.4	50.5	50 6	50.7	50.8	50.9	40

Calculated by F. E. Paradis, C. E.



T
DIST

0	1
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	2
11	2
12	2
13	2
14	2
15	2
16	2
17	27
18	28
19	29
20	30
21	31
22	32
23	33
24	34
25	35
26	36
27	37
28	38
29	39
30	40
31	41
32	42
33	43
34	44
35	45
36	46
37	47
38	48
39	49
40	50

1

5 St Sewer. Deep Sewer

K St to Ash.

℄ = 12' E of W. Curb. Offset nails 2' E of ℄.

9/3/13.

	+	H I	-	Surface	Bot Bell	Cuts.
S.W. 5 + K. Brass plug. Return.	7.32	12.32		4.997		
S.W. 4 + K.				1.390		
S.E. 6 + K.				6.982		
0+00 = S.L. K St						
0+40 = ℄ K + 5 MH. Top Cover.			7.33	4.99	-1.30	6.3 ✓
0+80 = N.L. K St			7.04	5.28	-1.14	6.4 ✓
1+30			6.50	5.82	-0.94	6.8 ✓
1+80			5.85	6.47	-0.74	7.2 ✓
2+30			5.26	7.08	-0.54	7.6 ✓
2+80			4.65	7.67	-0.34	8.0 ✓
3+30			4.05	8.27	-0.14	8.4 ✓
3+80 = S.L. J St.			3.50	8.82	+0.06	8.8 ✓
4+20 = MH ℄ J St.			3.07	9.25	+0.22	9.0 ✓
			2.15	10.17		
T.P. Curb. NW. 5 + J.	7.73	17.90				
4+80			7.90	10.00	0.46	9.5 ✓
5+30			7.12	10.78	0.66	10.1 ✓
5+80			6.35	11.55	0.86	10.7 ✓
6+30			5.52	12.38	1.06	11.3 Not dug.
6+80			4.64	13.26	1.26	12.0 ✓

5.00 = BM S.W. K + 5 St
6.60
11.60 = HI
12.73 = Rod

11.60	11.60	11.60	11.60
-1.14	-0.94	-0.74	-0.54
12.74 ✓	12.54 ✓	12.34 ✓	12.14 ✓

Flow in bot brick sewer. 0+52
1.13 = Flow
.25 ✓
1.38 = Bell

11.60	11.60	11.60	11.60	11.60
-0.34	-0.14	+0.06	0.22	1.57
11.94 ✓	11.74 ✓	11.54 ✓	11.38	10.03 = Top Nail 4+80.

10.00
6.15

16.15	16.15	16.15	16.15	16.15	16.15
.22	0.46	0.66	0.86	1.06	1.26
15.93 ✓ MH	15.69 ✓	15.49 ✓	15.29 ✓	15.09 Not dug.	14.89 ✓

Sta.	+	H.I.	−	El.	Grade	Cut
		17.90				
7+30			3.86	14.04	1.46	12.6 √
7+80			3.07	14.83	1.66	13.2 √
8+00 = MH. ¢ I St.			3.00	14.90	1.74	13.2 √
+40 NL. I St.			2.40	15.50	1.90	13.6 √
T.P. NW Curb 5+I.	8.09	23.88	2.11	15.79		
+80			7.84	16.04	2.06	14.0 √
9+30			7.12	16.76	2.26	14.5 √
9+80			6.38	17.50	2.46	15.0 √
10+30			5.64	18.24	2.66	15.6 √
10+80			4.93	18.95	2.86	16.1 √
11+30			4.27	19.61	3.06	16.5 √
11+40 = st. H.				19.8	3.10	16.7 —
12+15 MH H St			3.0	20.9	3.40	17.5 √
12+30			2.87	21.01	3.52	17.5 —
TP NW Curb H+5.			2.52	21.36		
	7.77	29.13 √				
12+40 = NL. H.			8.13	21.00	3.59	17.5 √
12+80			7.56	21.57	3.87	17.7 √
13+30			6.63	22.50	4.22 √	18.3 √
				+55	4.39	18.4 √
13+80			6.02	23.11	4.57	18.5 √
				+05	4.74	18.8 √
14+30			5.10	24.03	4.92	19.1 √

16.15 − 1.46 = 14.69 √; 16.15 − 1.66 = 14.49; 16.15 − 1.74 = 14.41; 16.75 − 1.54 = 14.61 = TP rail; + 3.92 = 18.53 = HI.

18.53 − 1.46 = 17.07 √; 18.53 − 1.66 = 16.87 √; 18.53 − 1.74 = 16.79 √; 18.53 − 1.89 = 16.64; 18.53 − 3.00 = 15.53 = Nail 8+40; + 7.06 = 22.59 = HI.

22.59 − 1.90 = 20.69 √; 22.59 − 2.06 = 20.53 √; 22.59 − 2.26 = 20.33 √; 22.59 − 2.46 = 20.13 √; 22.59 − 2.66 = 19.93 √; 22.59 − 2.86 = 19.73 √; 22.59 − 3.61 = 18.98; + 5.69 = 24.67

24.67 − 2.86 = 21.81; 24.67 − 3.06 = 21.61 √; 24.67 − 3.63 = 21.04 = Nail NL H St. TP.

21.00 + 6.50 = 27.50 = HI.; 27.50 − 3.59 = 23.91; 27.50 − 3.87 = 23.63 √; 27.50 − 4.22 = 23.28 √; 27.50 − 4.39 = 23.11 √; 27.50 − 4.74 = 22.76; 27.50 − 4.92 = 22.58 √

23.91 − 3.54 flow; 3.56; 3.37 = bell.

BM Fifth & H St.
SE cor brass plug end of return 20.63
5.39
H.I. 26.02
3.40
22.62

~~26.02 − 3.59 = 22.43~~

26.02 − 4.86 = 21.16; − 3.59 = 17.57 OK

26.02 − 5.03 = 20.99; − 3.40 = 17.59

~~26.02 − 3.52 = 22.50~~

		29.13			
14+90		.425	24.88	5.28	19.6 ✓
15+40 = SL G St.		3.33	25.80 OK ✓	5.70	20.1 ✓
15+80 MH & G St.		2.77	26.36	6.00	20.4
16+30		2.14	27.00	6.79	20.2
T.P. NW Curb St. & G		1.84	27.29		
	8.38	35.67			
16+80		7.80	27.87	7.38	20.3
17+30		6.92	28.75	8.37 ✓	20.48
17+80		6.00	29.67	9.15 ✓	20.5
18+30		5.00	30.67	9.94 ✓	20.7
18+80		4.09	31.68	10.73 ✓	20.9
19+30		3.12	32.55	11.52 ✓	21.03
19+61 MH. F St. = I.N.E.		2.3	33.37	12.00 ✓	21.4
T.P. N.W. Curb St. F & Rot.		1.60	34.07		
19+80	7.94	42.01 ✓			
20+30		7.93	34.08	13.26	20.8 ✓
20+80		7.04	34.97	14.18	20.8 ✓
21+30		6.02	35.99	15.10	20.9 ✓
21+80		5.12	36.89	16.03	20.4 ✓

27.50 − 5.22 = 22.28 ✓ | 27.50 − 5.70 = 21.80 ✓ | 27.50 − 1.71 ✓ = 25.79 = MH I. SL G St. = T.P. | 514 | 3093 = H.I.

3093 − 6.00 = 24.93

SE Cor G Brass plug
Elev 26.223

SW Cor E. brass plug
Elev 39.491

26.22 + 8.63 = 34.85 = H.I.

34.85 − 8.37 = 26.48 − 5.94 = 20.54 ✓
34.85 − 9.12 = 25.73 − 5.13 = 20.60 ✓
34.85 − 9.99 = 24.91 ✓
34.85 − 10.73 = 24.12
34.85 − 11.52 = 23.33

32.41 F.
26.22 + 9.88 = 36.10 − 11.52 = 24.58

34.85 − 12.00 = 22.85

34.08 = T.P. 20+30 + 4.39 = 38.47 = H.I.
38.47 − 12.00 = 26.47 ✓
38.47 − 13.26 = 25.21 ✓
38.47 − 14.18 = 24.29 ✓
38.47 − 3.46 = 35.01 − T.P. 670 = 41.71 = H.I.

41.71 − 15.10 = 26.61 ✓
41.71 − 13.89 = 37.82 = T.P. 6.23 = 44.05 = H.I.
44.05 − 17.80 = 26.25
37.92 − 4.68 = 42.50 = H.I. − 15.10 = 27.40

42.50 − 16.03 = 26.47 ✓
42.50

		42.01		+23		
22+30			4.22	37.79	16.98 (16.83) sh	20.8
22+80 OK-TP			3.25	38.76	17.89	20.8
23+00 = SL. E St.					18.26	
23+40 MH E St.			2.23	39.78	19.00	20.8
23+80			1.57	40.44	19.70	
T.P. NW Curb E.			1.42	40.59		(175)
	8.76	49.35				
24+30 (+25)			8.10	41.25	20.54 / 20.58	20.7
24+80			7.07	42.28	21.46	20.8
24+90.5					21.64	
25+30 (25+14.2)			6.04	43.31	22.23 / 22.34	21.0
25+70					23.04	
25+80			5.17	44.18	23.22	21.0
26+06					23.68	
26+30			4.22	45.13	24.10	21.0
26+55 = shaft					24.54	
26+80 = SL D St			3.22	46.13	24.98	21.2
27+30			2.50	46.85	25.86	21.0
TP NW Curb D.			1.62	47.73		
	7.24	54.97				
27+38.65 MH D St.			7.10	47.87	26.00	21.9
27+80 = 20' N. NL D St.			7.45	47.52	26.55	21.0
28+30			6.68	48.29	27.21	21.1
28+80			5.92	49.05	27.87	21.2

+43 ft
42.50 − 16.83 = 25.67
42.50 − 17.89 = 24.61
38.78 = Tack 23+80
43.05 = 43
46.90 − 20.54 = 26.36
46.90 − 22.23 = 24.67
48.32 − 22.23 = 26.09
48.32 − 3.19 = 45.13 = 26+30 = Tack
52.18 = 43
52.18 − 26.00 = 26.18
52.18 − 26.55 = 25.63
47.50 = Tack 27+80
54.70 − 27.21 = 27.49
54.70 − 27.87 = 26.83

		54.97					
29+30 (+28 = shaft)			5.13	49.84	28.56	21.3 ✓	
29+80			4.34	50.63	29.23	21.4 ✓	
30+30 (30+27)			3.56	51.41	29.86 / 29.90	21.6	
+60	SL. C st.		3.10	51.87	30.30 ✓	21.6 ✓	
T.P. SW. Curb C.			2.70	52.27			
	4.76	57.03					
B.M. NW. C. Brass Plug.			4.31	52.72	52.76 / 52.72 / .04		
	5.42	58.18					
30+80					30.58		
31+10	=MH. C St. =10'N℄			52.17	31.00 ✓	21.2 ✓	Tied out 5.2' N+S of ℄ MH.
31+40	=NL. C. st.		5.70	52.48	31.16 ✓	21.32 ✓	
+90			5.60	52.58	31.42 ✓	21.26 ✓	
32+40			5.30	52.88	31.68 ✓	21.20 ✓	
+90 No shaft. +99 = Tack.			5.12	53.06	31.94 / 31.99 ✓	21.12 ✓	
33+40			5.08	53.10	32.20 ✓	20.90 ✓	
+90			4.80	53.38	32.46 ✓	20.92 ✓	
34+40	=SL. B St		4.57	53.61	32.72 ✓	20.89 ✓	
34+94½	= MH = 11.5' N. N Curb.			53.71	33.00 ✓	20.71 ✓	Tied out 3.2' E+W from ℄
35+20	= NL. B St. = T.P.		4.01	54.17	33.91 ✓	20.3 ✓	
	11.05	65.22					

54.70 − 28.53 = 26.17 ✓; 54.70 − 29.23 = 25.47 ✓; ~~54.70 − 29.90 = 24.80~~; 54.70 − 29.86 = 24.84 ✓

54.70 − 3.32 = 51.38 = Tack 30+30; + 5.43 = 56.81 = HI

56.81 − 30.30 = 26.51 ✓

56.81 − 4.39 = 52.42 = Nail 31+40; + 4.84 = 57.26 = HI; − 31.00 = 26.26 ✓

52.22 = 31+40; + 5.54 = 57.96 = HI; − 31.16 = 26.80

52.42 + 5.69 = 58.11 = HI

58.11 − 31.16 = 26.95 ✓; 58.11 − 31.42 = 26.69 ✓; 58.11 − 31.68 = 26.43 ✓; 58.11 − 31.94 = 26.17 ✓

58.11 − 5.10 = 53.01 = Nail 32+90

~~53.01 + 5.54 = 58.55 = HI; − 31.94 = 26.61 ✓; 58.55 − 32.20 = 26.35; 58.55 58.55 58.55~~

52.76 = BM − 5 + C; + 5.63 = 58.39 = HI; − 31.99 = 26.40 ✓ 25'4 7/8" ✓

58.39 − 5.35 = 53.04

58.39 − 32.20 = 26.19, 25'1 4/8 ✓

58.39 − 32.46 = 25.93, 25'11 1/8 ✓

58.39 − 32.72 = 25.67, 25'8" ✓

58.39 − 33.00 = 25.39, 25'4 5/8 ✓

58.39 − 33.91 = 24.48 ✓

32.20 − 31.68 = .52

Flume = 9.8' outside wall S. of N curb. 3' bet. wall + conduit. Located in Coot.

		65.22				
35+70			9.27	55.95	35.69	20.3
36+20			7.40	57.82	37.47	20.3
36+63.5 / +70			5.48	59.74	39.02 / 39.25	20.5
37+1A / 37+20			3.57	61.65	40.82 / 41.03	20.6
+70 = TP			1.68	63.54	42.81	20.7
	11.19	74.73				
38+20 = SL Ast			9.45	65.28	44.57	20.6
+59 = 1's of ℄ Ast = MH			8.17	66.56	46.00	20.6
39+00 = NL A			7.02	67.71	47.26	20.5
+50			5.43	69.30	48.84	20.5
40+00			3.87	70.86	50.42	20.4
+50			2.27	72.46	52.00	20.4
41+00 = TP			0.65	74.08	53.58	20.5
	7.52	81.60				
+50			5.93	75.67	55.16	20.5
42+00 = SL Ash.			4.33	77.27	56.74	20.5
+40 = ℄ Ash = MH			3.12	78.48	58.00	20.5
B.M. NW. J + Ash.			2.15	79.45		

Tied out 37 E + W.

3.56 / 56 / 2136 / 1780 / 19936

4459 / 41.23 / 3.56 / 253 / 1068 / 1780 / 712 / 90064

60.44 Third

58.39 = HI
3.85
54.54 = TP Curb NE 5 + B.
7.04
61.58 HI.
1.28
60.30
5.05
65.35 HI
40.82
24.53

61.58 − 37.47 = 24.11

61.58 − 39.02 = 22.56

65.35 − 42.81 = 22.54

65.35
2.97
62.38
6.94
69.32
44.59
24.73

69.32 − 46.00 = 23.32

54.54
5.75
60.29 = HI
33.91
26.38
25' 16 1/2

60.29 − 35.69 = 24.60

69.30
6.49
75.79 = HI.
48.84
26.95 ✓

75.79 − 50.42 = 25.37 ✓
25' 4 5/8"

75.79 − 52.00 = 23.79 ✓

75.79 − 53.58 = 22.21 ✓

75.79
1.70
74.09 = TP 41+00 Nail
6.99
81.08 = HI

81.08 − 55.16 = 25.92 ✓

81.08 − 56.74 = 24.34 ✓

81.08
2.79
78.29 W. Tie nail MH Ash St.
58.00
20.29 = cut.

F Street Sewer 5th to 6th

& 1' north of center of F from W. curb of 6th. offset nails 2' 12" East of W. curb 5th to 12' East of South of Center of ℄ F

Sta		H.I. 4.77 / 40.89	Rod	Ground 36.12 B.M.	Grade out.	Cut.
0+00	M.H. 12' East of West curb 5th		7.9	33.0	12.00	21.0
+54	East line 5th		7.9	33.0	12.58 V	20.4
+94			7.1	33.8	13.01 V	20.8
1+29			6.7	34.2	13.38 V	20.8
1+84			5.9	35.0	13.97 V	21.0
2+14			5.4	35.5	14.29 V	21.2
2+54	West line 6th		4.9	36.0	14.72 V	21.3
+80	M.H. 12' east of W. curb 6th		5.0	35.9	15.00 V	20.9

36.12 + 2.22 = 38.34 HI − 5.14 = 33.20 − 12.08 = 20.62

36.12 + 3.19 = 39.31 HI − 13.41 = 26.30 − 5.39 = 20.91 − 3.72 = 25.59 − 14.29 = 21.30 V

4.92 + 34.39 − 13.38 = 21.01 − 13.97 = 25.34 − 4.18 = 21.16 − 24.31 − 3.22 = 21.09

6th Street Sewer 12' east & west of ℄

from 1' north of center of F to 12' south of north curb of B.

Sta. offset nails 2' east of

B.M. S.W. cor 6th & D. 50.71

Sta.			H.I. 40.89	Rod	Ground 36.12	Grade	cut
		4.77					
0+00	M.H. 12' east of W. curb 6th,			5.0	35.9	15.00	20.9
+39	North line F Street			4.6	36.3	15.72	20.6
+89				3.6	37.3	16.64	20.7
1+39				2.8	38.1	17.56	20.5
+89				1.7	39.2	18.49	20.7
2+39				0.8	40.1	19.41	20.7
	P.I.	10.32	50.69	0.52	40.37		
+89				9.8	40.9	20.33	20.6
3+39	So. line E. St.			8.9	41.8	21.26	20.5
+79	M.H. Center of E street			8.4	42.3	22.00	20.3
				~~7.7~~			
4+19	No. line E			7.9	42.8	22.81	20.0
+69				6.6	44.1	23.82	20.3
5+19				5.35	45.34	24.84	20.50
+69				4.3	46.4	25.85	20.6
	P.I.	11.00	59.37	2.32	48.37		
6+19				11.7	47.7	26.87	20.8
+69				10.5	48.9	27.88	21.0
7+19	So. line of D			9.3	50.1	28.90	21.2

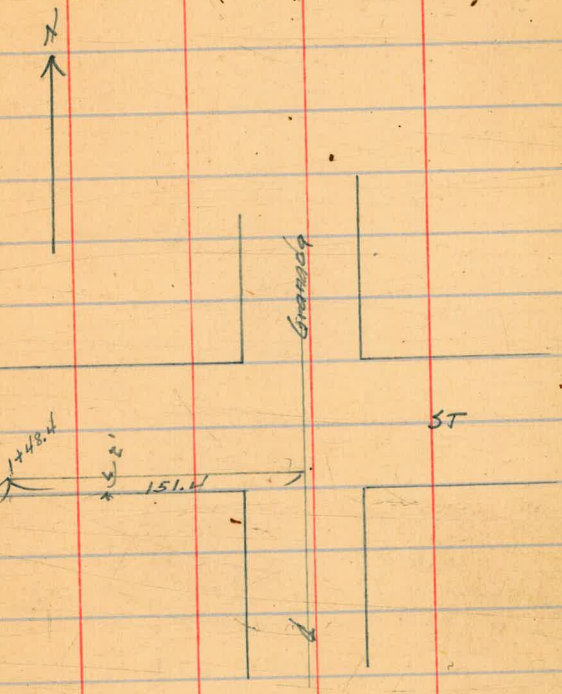
Continued from page 9.

58.43 B.M. N.W. cor. 6th & B

Sta		H.I.	Rod	Ground	Grade	cut
7+73	M.H. 12' So. of no. curb of 10.	59.37	9.0	50.4	30.00	20.4
7+99	no. line of 10.		8.7	50.7	30.36	20.3
8+49			7.9	51.5	31.04	20.5
+99			7.1	52.3	31.72	20.6
9+49			6.3	53.1	32.41	20.7
+99			5.5	53.9	33.09	20.8
10+49			4.8	54.6	33.77	20.8
+89	10' So. of C		4.2	55.2	34.31	20.9
11+39	M.H. Center of C Street		3.7	55.7	35.00	20.7
+79	no. line C		3.4	56.0	35.20	20.8
12+29			3.2	56.2	35.45	20.8
T.P.	5.50	61.71	3.16	56.21		
+79			5.3	56.4	35.71	20.7
13+29			5.2	56.5	35.96	20.5
+79			5.1	56.6	36.22	20.4
14+29			4.9	56.8	36.47	20.3
+79	So. line B.		4.8	56.9	36.72	20.2
15+33	M.H. 12' So. no. curb of B.		3.7	58.0	37.00	21.0

Construction of Sewer 2' N of S.L. of Grape from ℄ of Granada West to Angle pt. Thence SW. as per sketch

	1.11	234.06		232.95	
0+00 = 3' W of ℄ of Granada		8.64	225.42	225.42	
0+17		2.13	31.93	225.56	6.37
0+47		1.94	32.12	225.64	6.48
0+58		2.50	31.56	225.82	5.74
+75		3.06	231.00	226.02	4.98
1+00		3.68	30.38	226.22	+4.16 GRADE
+25		4.26	229.80	226.42	+3.38
+48.4 △		4.85	229.21	226.60	+2.61
+76.0		4.77	229.29	226.82	2.47
2		5.42	228.64	227.02	1.62
+9.5		5.76	228.30	227.10	+1.2



Sigsbee St 12" Water Main

Hub 50' E of CL Sigsbee on Pierce

8.16 15.27

7.11

Sta	+ Hubs 2' E & Trench HI	-	El. Hubs	El. Bot Trench	Cuts	Gr. 10' E & St	& Gr St	
0+00 = NL Pierce		8.38	6.89	3.14	3.8	7.30	7.50	
+50		6.94	8.33	4.21	4.1			
+70		6.72	8.55	4.64	3.9	8.80	9.25	
1+00		6.60	8.67	5.04	3.6			
+50		5.25	10.02	5.71	4.3			
2+00		3.64	11.63	6.38	5.2			
+50		2.16	13.11	7.05	6.1			
3+08 = SL Main St		2.87	12.40	7.74	4.7	11.90	12.25	1270 = Mon. SE Main + Sigsbee
3+80 = NL " "	8.16 21.43 = 0+00 T.P.	2.00	13.27	7.74	5.5	11.90	12.25	
0+50		4.33	17.10	8.32	8.8			
1+00		3.16	18.27	8.90	9.4			
+50		5.30	16.13	9.48	6.6			
2+00		3.75	17.68	10.06	7.6			
+50		4.12	17.31	10.65	6.6			
3+00 = CL Newton		5.14	16.29	11.24	5.1	15.40	15.50	
3+80 = 0+00 = NL "	10.57 27.70 = TP Hub	4.30	17.13	12.24	4.9	16.40	16.50	
0+50				13.24				
1+00		8.63	19.07	14.24	4.8			
+50				15.24				
2+00		5.78	21.92	16.24	5.7			

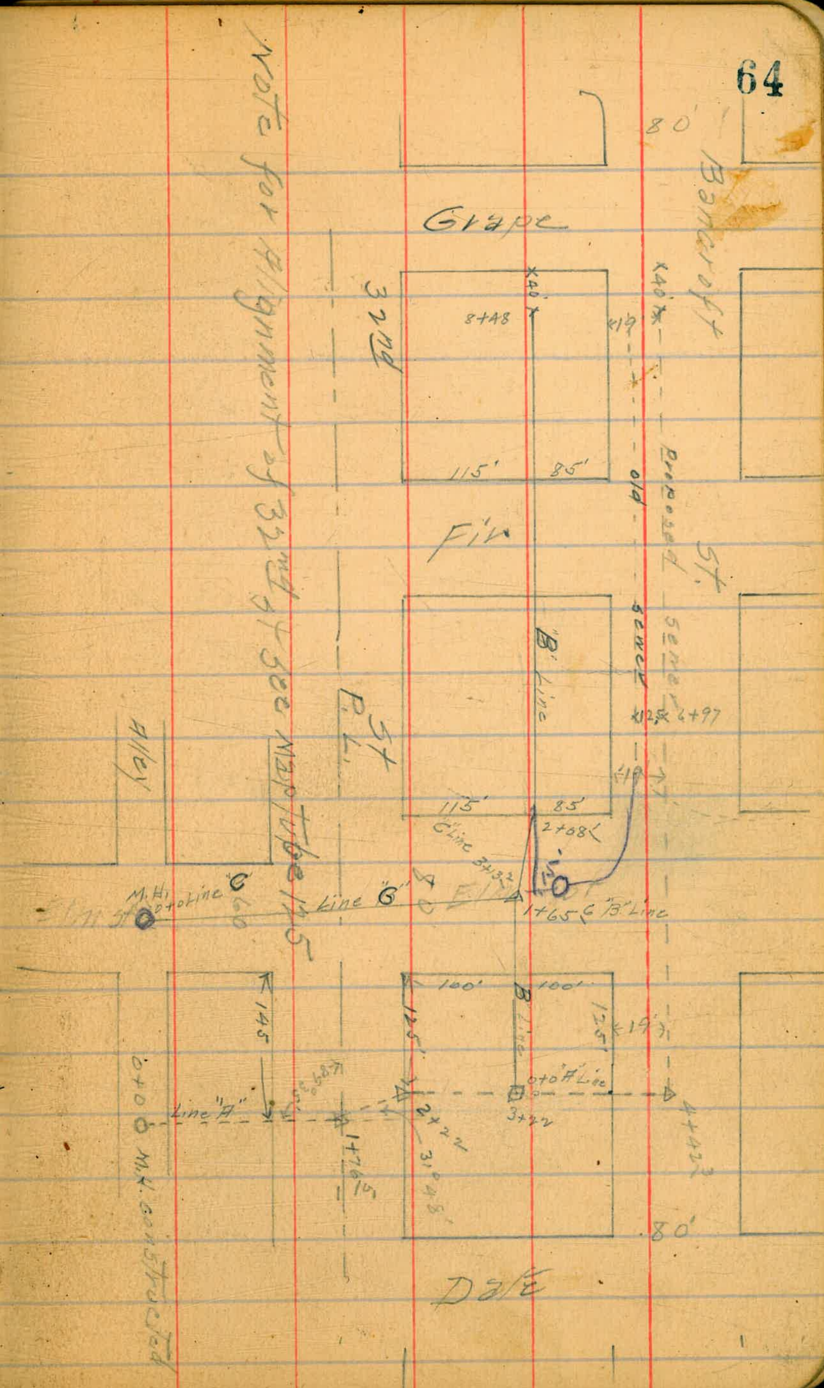
11/24/10
West Evans - Fletcher

	+	27.70 HI	−	El. Hubs.	El. Bot. Ditch.	Cuts	El. Grade at 10' E.E.	℄ Gr.		
									27.70 / 4.91 / 22.79	
2+50					17.24					
3+00 = SL. Nat'l Ave.			5.22	22.48	18.24	4.2	22.40	22.50		
3+80 = 0+00 = NL. "		" T.P.	3.92	23.78	19.24	4.5	23.40	23.50		
0+50	9.72	33.50	8.52	24.98	20.16	4.8				
1+00			7.07	26.43	21.08	5.3				
+50			5.44	28.06	21.99	6.1				
2+00			4.50	29.00	22.91	6.1				
+50			4.05	29.45	23.83	5.6				
3+00 = 6.4 Logan.			4.20	29.30	24.74	4.6	28.90	29.00		
Curb SE Cor.			4.00	29.50	29.50				29.50	

Levels for proposed sewer according to sketch opp page

9/6/14 Dungle Shaw Kerr

B.M. bottom M.H. Sta 0+0				192.00	
B.M.	17.55	209.55			
0+0			12.5	197.0	
+50			11.2	198.4	
1+0			8.6	201.0	
+50			6.3	203.3	
1+76⁵ P.L. 31°48' L.			5.0	204.6	
+85			3.3	206.3	
2+0			4.0	205.6	
2+22			3.7	205.9	
T.P.	12.80	221.61	0.74	208.81	
+50			12.0	209.6	
3+0			7.9	213.7	
+50			6.5	215.1	
+60			8.0	213.6	
4+0			6.5	215.1	
+30			1.8	219.8	
+42³			1.0	220.6	
+50			0.8	220.8	
5+0			0.6	221.0	
T.P.	13.11	234.22	0.50	221.11	
+50			10.9	223.3	
6+0			8.5	225.7	
+50			4.1	230.1	
T.P.	12.98	247.15	0.05	234.17	



			247.15		
6+97 = Top old sewer 6.5' E. of W.L. St,				11.6	235.5
7+0				12.6	234.5
+50	cut 6'			8.5	238.6
8+0	cut 7'			5.2	241.9
+50				2.7	244.4
9+0	cut 9'			0.4	246.7
T. P.		12.92	259.98	0.09	247.06
+50			260.0	11.3	248.7
10+0				8.0	252.0
10+0 Top old sewer 5' E of W.L. St,				6.1	253.9
+50				5.2	254.8
11+0				2.8	257.2
+50				0.2	259.8
T. P.		10.90	270.57	0.31	259.67
11+75 Top old sewer 6.5' E of W.L. St				8.9	261.7
12+0				7.9	262.7
+50				4.9	265.7
= End of old sewer 12+70 Top old sewer 6' E of E.L. St				2.6	268.0
12+88 = 40 S. of S.L. Grade				3.1	267.5

Theo cuts E. side of St

Levels for Line "B" Page 64

4/25/14 Dunkle Shaw Kerr

B.M.1				213.70	8+0		2.5	271.7
	11.67	225.37						
0+0 = 3½ 3+27 Line "A"			10.6	214.8	8+48 = 48'5 of Grape		0.2	274.0
+20			14.0	211.4				
+45			9.2	216.2				
+50			8.6	216.8				
1+0			5.8	219.6				
+50			0.8	224.6				
T.P.1	12.83	237.98	0.22	225.15				
1+65 = ℄ E.M.1			11.3	226.7				
2+0			5.7	231.3				
2+08'			5.1	232.9				
T.P.1	12.27	250.24	0.01	237.97				
+50			11.9	238.3				
3+0			6.0	244.2				
+50			0.8	249.4				
T.P.	12.46	262.52	0.18	250.06				
4			9.1	253.4				
+50			5.2	257.3				
5			1.9	260.6				
T.P.1	12.16	274.22	0.46	262.06				
+50			10.6	263.6				
6			7.4	266.8				
+50			5.5	268.7				
7			4.6	269.6				
+50			4.2	270.0				

Levels for Line C Page 64

4/25/14 Dunkle Shaw Kerr

67

B.M.			226.70
	126	227.96	228.0
0+0 = M.H. & Alley & Elm St		10.6	217.4
+48		16.0	212.0
+50		18.1	209.9
+65		11.8	216.2
1+0		9.5	218.5
+50		8.0	220.0
+70		8.0	220.0
2+0		4.3	223.7
+50		3.5	224.5
3		1.5	226.5
$+13^2$ = 3+65.6 "B" Line		1.3	226.7

Sutter St. Grades.
EL. Bellview Addn to Jackson.

Curb N.L. Sutter EL Bellview. 27625

27625 0+50 1+00
1.77
278.02 = HI 27802 27802 27802
27425 274.00 272.25 272.00
3.77 ✓ 4.02 ✓ 5.77 ✓ 6.02 ✓

1+50 1+50
27802 27802 27802 27802
269.55 269.30 269.10 269.35
8.47 ✓ 8.72 ✓ 8.92 ✓ 8.67 ✓

2+00 2+00
27802 27802 27802 27802
266.45 266.20 266.59 266.84
11.57 ✓ 11.82 ✓ 11.43 ✓ 11.18 ✓

27803
11.17
266.85 = TP
1.16
268.01 = HI

26801 26801 26801 26801
264.14 263.89 263.30 263.55
3.87 ✓ 4.12 ✓ 4.71 ✓ 4.46 ✓

26801 26801 26801 26801
261.41 261.16 261.90 262.15
6.60 ✓ 6.85 ✓ 6.11 ✓ 5.86 ✓

26801
5.86
262.15 = TP
2.86
265.01 = HI

26501 26501 26501 26501
261.25 261.00 259.85 260.10
3.76 4.01 5.16 4.91 ✓
93 93
5.46 00.1

Finish stakes. 11/17/13. West - Evans - Fletcher.

Pierce St 12" Water Main.

Sta.	+	H.I.	−	Elev. Hub	Gr. Bot Trench 4.2" below gr. 10' S of ℄	Cuts	Gr 10' S ℄	St. Gr. ℄
0+00 = WL Schley		24.61	4.42	20.19	15.84	4.[illegible]	20.00	20.5
1+00			4.95	19.66	15.62	4.0		
2			6.11	18.50	15.40	3.1		
3			5.15	19.46	15.19	4.3		
4			5.22	19.39	14.97	4.4		
5 T.P. Hub	5.07	24.45	5.23	19.38	14.76	4.6		
6 EL Sicard			5.28	19.17	14.54	4.6	18.70	19.0
+60 WL Sicard			6.35	18.10	13.54	4.6	17.90	18.0
7+60			6.90	17.55	13.92	3.6		
8+60			5.45	19.00	14.30	4.7		
9+60			5.35	19.10	14.69	4.4		
10+60			4.87	19.58	15.07	4.5		
11+60 T.P. Hub	6.45	25.95	4.95	19.50	15.45	4.0		
12+60 = EL Sampson			5.50	20.45	15.84	4.6	20.00	20.5
			5.59	20.36 = 12+86	15.84	4.5		
13+20 = WL Sampson			5.25	20.70	15.84	4.9	20.00	20.5
14+20			5.20	20.75	15.59	5.16		
15+20			5.38	20.57	15.34	5.2		
16+20			5.58	20.37	15.09	5.3		
17+20			5.75	20.20	14.84	5.4		

WL Schley to EL Sampson ℄ = 10' S ℄ 80' St.
Hubs Offset 2' N.

EL Sampson to EL Casey
℄ Ditch = 10' N ℄ Pierce.
Considered as 80' St.
Hubs 2' Offset to North.

19.66
5.88
25.54

20.00 = Gr.
21.95 21.28
3.60 4.25
25.55 25.53

2554 = HI.
20.00 = Curb Gr SW Schley + Pierce
5.54 ✓ Set on Curb + EL Schley

7+60 = 17.55
5.45
23.00 = HI

18.10 = WL Sicard
4.92
23.02 = HI.

2301 = Ave HI.
1900 = Curb Gr. SE Cor Sic + Pierce
4.01 Set Hub for Hydrant 2' E of EL of Sicard. to Curb Gr. on Curb line.

2045 = Hub. EL Sampson.
5.44
25.89 = HI

19.50 = 11+60
6.38
25.88 = HI

2589 = HI
20.00 = Curb Gr SE Cor
5.89 Set Hub for Fire Hyd. on EL Sampson + 14' N. of SL for Curb line to grad

Station	+	HI	−	El Hubs	Bot Tr.	Cuts	W S E	℄ Gr.	Notes
		25.95							14.59 4.87 19.46 = HI. 3.24 16.22 = TP Hub. 5.61 21.83 = HI. 17.00 4.83
18+20			5.79	20.16	14.59	5.6			
19+20 = EL Evans	TP.		6.60	19.35	14.34	5.0	18.50	19.00	
19+80 = WL	2.81 "	22.16	2.85	19.31	14.34	5.0	18.50	19.00	
20+80			4.14	18.02	13.92	4.1			
21+80			5.05	17.11	13.50	3.6			
22+80			5.31	16.85	13.09	3.8			
23+80			5.10	17.06	12.67	4.4			
24+80			4.86	17.30	12.25	5.0			
25+80 = EL Dewey			5.38	16.78	11.84	4.9	16.00	16.50	Set EL + Curb for 10' Walk to gr. Hydrant to go 3' E.
26+40 = WL	" TP Hub 4.10	20.33	5.93	16.23	11.84	4.4	16.00	16.50	
27+40			5.17	15.16	11.51	3.7			14.67 9.30 23.97 = HI 1.65 22.32 22.26 .06 4-94
28+40			5.82	14.51	11.18	3.3			
29+40			5.22	15.11	10.85	4.2			22.26 = BM SE Crosby
30+40			4.80	15.53	10.51	5.0			
31+40			4.44	15.89	10.18	5.7			
32+40 = EL Crosby		TP Hub. 18.93	5.66	14.67	9.84	4.83	14.00	14.50	
33+00 = WL	4.34 "		Hub. 4.44 4.32 4.30 3.73	14.59 14.49 14.61 14.63	9.84 9.84 9.84	4.7 4.8 4.8	14.00	14.50	
34				15.20	9.59	5.6			
35			4.24	14.69	9.34	5.4			

Hubs 7' S. of ℄. ditch.
Pipe laid. 50 ℄ of old pipe 4" main
1.5 21" N of old pipe checks over 1
old pipe too far south

1893

22.26
1.45
23.71 +.49
9.12
14.59 = +P
5.31
19.89
15.00
[illegible]

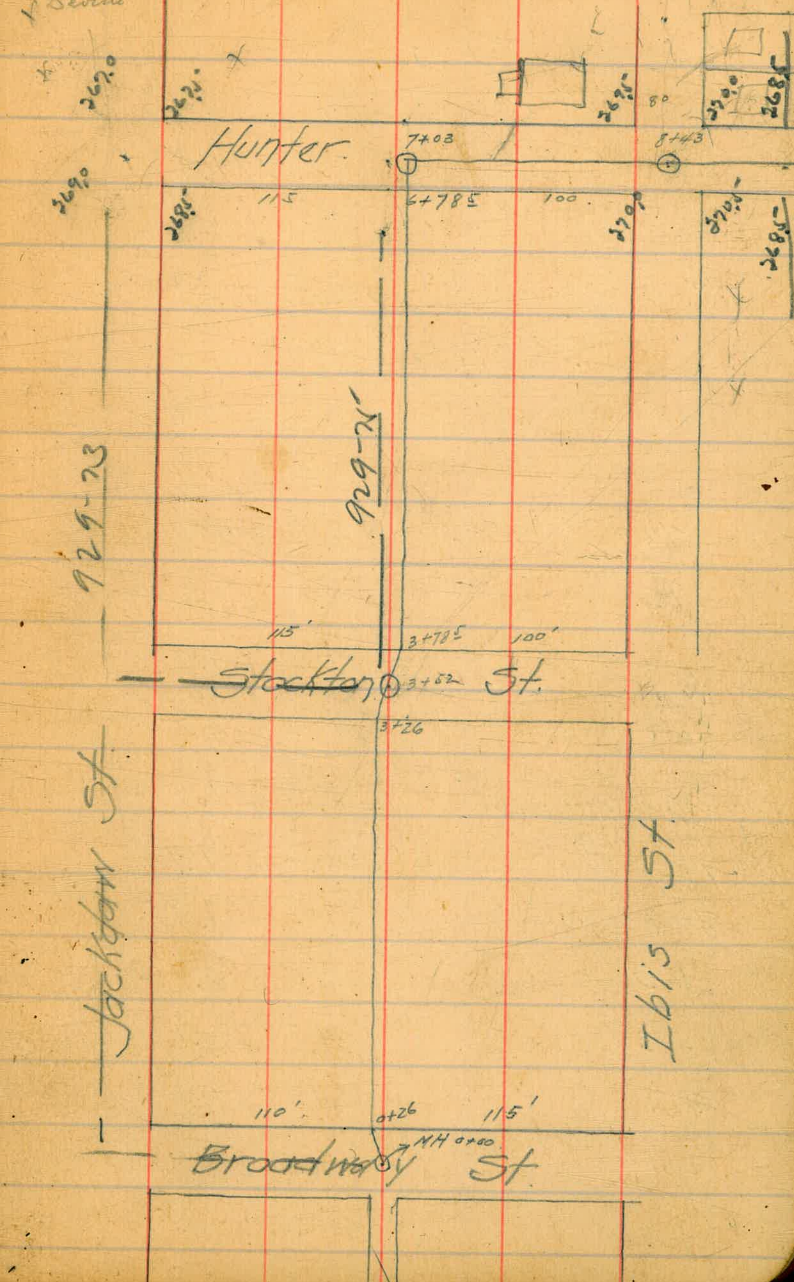
	+	HI	−	El. Hubs	4½" below 10' St. Bot ditch	Cuts	Gr 10'S ℄	℄ Gr.
36			5.85	13.08	9.09	4.0		
37			6.14	12.79	8.84	4.0		
38			7.22	11.71	8.59	3.1		
39 = E L Beardsley			7.22	11.71	8.34	3.4	12.50	13.00
39+60 WL "	6.27	17.98	6.25	11.73	8.34	3.4	12.50	13.00
40+10			5.76	12.22	8.04	4.2		
+60			4.58	13.40	7.74	5.7		
41+10			4.42	13.56	7.44	6.1		
+60			6.21	11.77	7.14	4.6		
42+10			6.70	11.28	6.84	4.4		
+60			6.61	11.37	6.54	4.8	10.70	11.00
43+10			7.38	10.60	5.93	4.7		
+60			8.74	9.24	5.31	3.9		
44+10			9.32	8.66	4.69	4.0		
+60			10.48	7.50	4.07	3.4		
45+10			10.87	7.11	3.45	3.6		
45+60 - WL Sigsbee St.			11.64	6.34	2.84	3.5	7.00	6.85
45+80 = X. = 10' E ℄ Sigsbee.				6.12	2.24	3.9	6.40	6.25

Hubs are 3' N of Ditch
Ditch = 10' N ℄ Pierce

1 Preliminary Sewer from MH. ℄ Broadway bet. Ibis & Jackdaw North to ℄ Hunter, thence E. on ℄ Hunter.

Sept 23-1913
West
Crans
Devine

BM. SW. Jackdaw + Broadway				275.993
	1.74	277.73		
NW Curb Ibis + Bdy.			9.67	268.06
Top Cover MH. ℄ Broadway + Alley			Top. 7.51	270.22
bet Ibis & Jackdaw			Bot. 15.91	261.82
~~II~~				
0+26 = NL Bdy.			7.0	270.7
+50			7.1	270.6
T.P.	5.27	275.94	7.06	270.67
1+00			6.2	269.7
+50			6.3	269.6
2+00			6.0	269.9
+50			5.5	270.4
3+00			6.7	269.2
+26 = SL.			7.0	268.9
+52 = ℄ Stockton			7.2	268.7
+78.5 = NL.			7.3	268.8
4+00			7.3	268.6
T.P.			7.80	268.14
	9.00	277.14		



		277.14			
4+50			7.7	269.4	
5+00			5.8	271.3	
+50			5.2	271.9	
T.P.			4.55	272.59	
	1.99	274.58			
6+00			2.0	272.6	
+50			3.2	271.4	
+~~88~~ 85			3.9	270.7	
+80			5.0	269.6	
7+03 = ℄ Hunter St. ↑ = MH. ∠ 90° R.			5.6	269.0	
~~+50~~			~~7.5~~	~~267.1~~	
BM. SW. Jackdaw + Hunter. Concrete Mon.			5.47	269.11	269.07 = OK.
7+50			5.2	269.4	
~~8~~ 8+03 = WL. Ibis approx.			4.7	269.9	
~~+43~~ = ℄ Ibis.			4.6	270.0	
+83 = EL.			4.5	270.1	
9+00			4.5	270.1	
+50			4.7	269.9	
10+00			5.1	269.5	
11+23 = ℄ Hawk St.			6.7	267.9	

Schley St. 12" Water Main.

+	+1	-	El Hub.	Bot Trench 4'2" below gr. 10" E of ℄	Cuts	Gr. 10'E ℄	St Gr. ℄
			29.03				
237	31.40						
0-80 = NL Main.		4.13	27.27	22.54	4.7	26.70	27.00
0+00 = SL Main.		5.30	26.10	21.54	4.6	25.70	26.00
+50		4.50	26.90	20.71	6.2		
1+00		4.52	26.88	19.88	7.0		
+50		5.93	25.47	19.04	6.4		
2+00		10.12	21.28	18.21	3.1		
+50		9.45	21.95	17.38	4.6		
3+00 = NL Pierce = TP 3.01 24.61		9.80	21.60	16.54	5.1	20.70	21.00
1.50 = 4+13+11 ℄ Pierce + Schley		4.36	20.25	15.84	4.4	20.00	20

Cont'd p. 69.

380' { Grape = 226
Fir = 219

From F.T. ℄ Alley on Lewis bet Brant and Albatross, to ℄ Alley + ℄ Lewis 181 East.

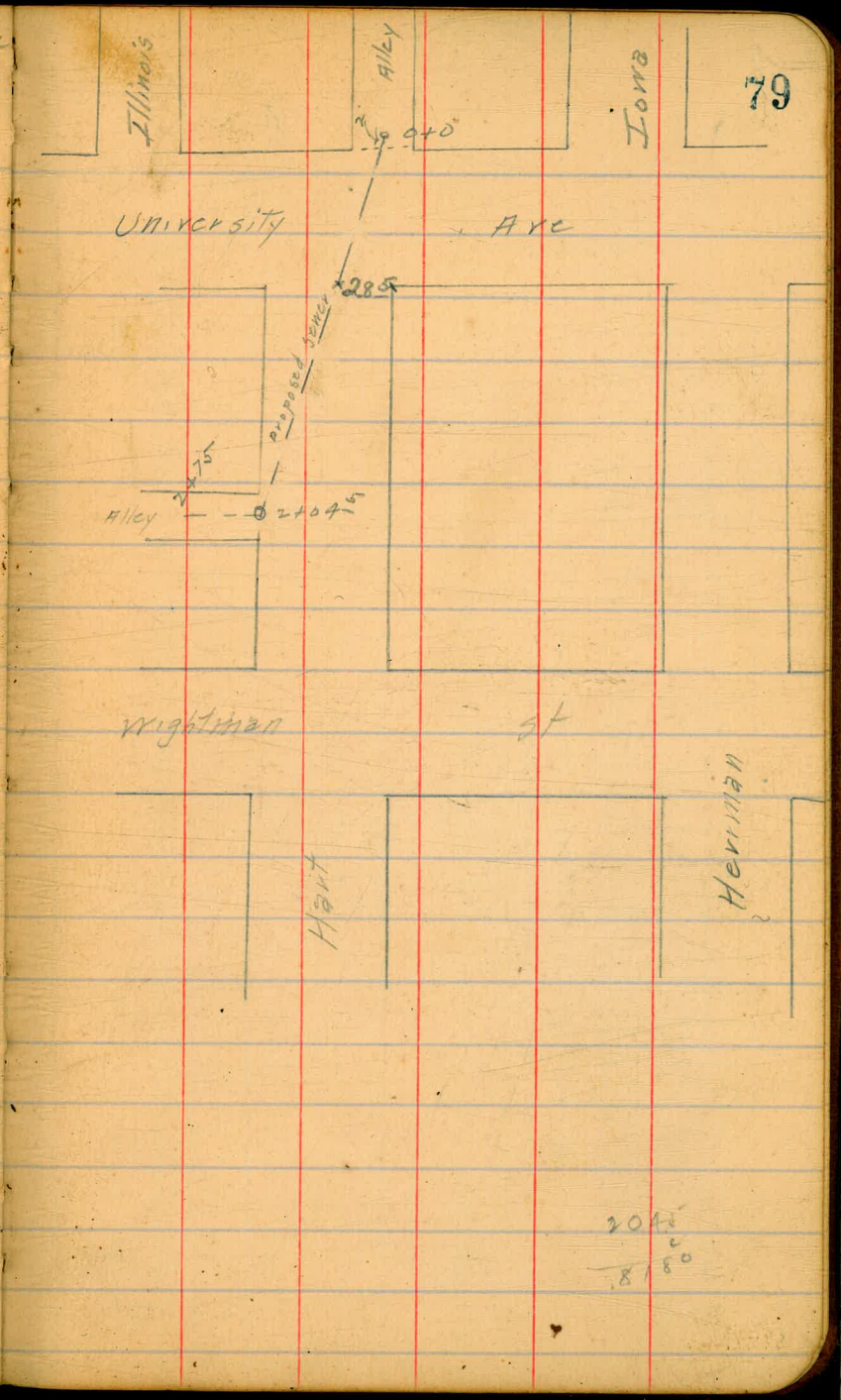
BM. 3 W. 20' W. Pole SPK.	5.83	290.90		285.07
0+00 = ℄ Alley			4.4	286.5
+50			5.2	285.7
1+00			4.8	286.1
+38			4.6	286.3
+40			5.7	285.2
+50			6.1	284.8
2+00			6.0	284.9
+50			6.1	284.8
3+00			5.8	285.1
+45 ℄ Alley.	L. 90°		6.6	284.3
+95 = F.T. ℄ Alley bet Albatross + Brant Sts.	Cover.		6.7	284.2
	Bottom.		11.40	279.5

	Cont'd from P80			
		296.94		
13+50			2.2	294.7
14+00			3.6	293.3
T.P.			3.98	292.96
	5.58	298.54		
.+50			9.4	289.1
15+00			9.7	288.8
+50			10.2	288.3
16+00			10.4	288.1
+50			8.3	290.2
17+00			6.9	291.6
T.P.			6.88	291.66
	5.16	296.82		
17+50			3.5	293.3
18+00			2.0	294.8
+50			1.4	295.4
+75. Cem Walk. Front Hospital.			0.7	296.1
T.P.			1.02	295.80
	4.71	300.51		
Basement Floor.			6.85	293.66
2' below B. Floor				291.66

Levels for proposed sewer opp page 4/6/14 Dupuis Shaw Kurr

B.M. N.W. brass plg Illinois & University 35798
B.M. 3.03 361.01

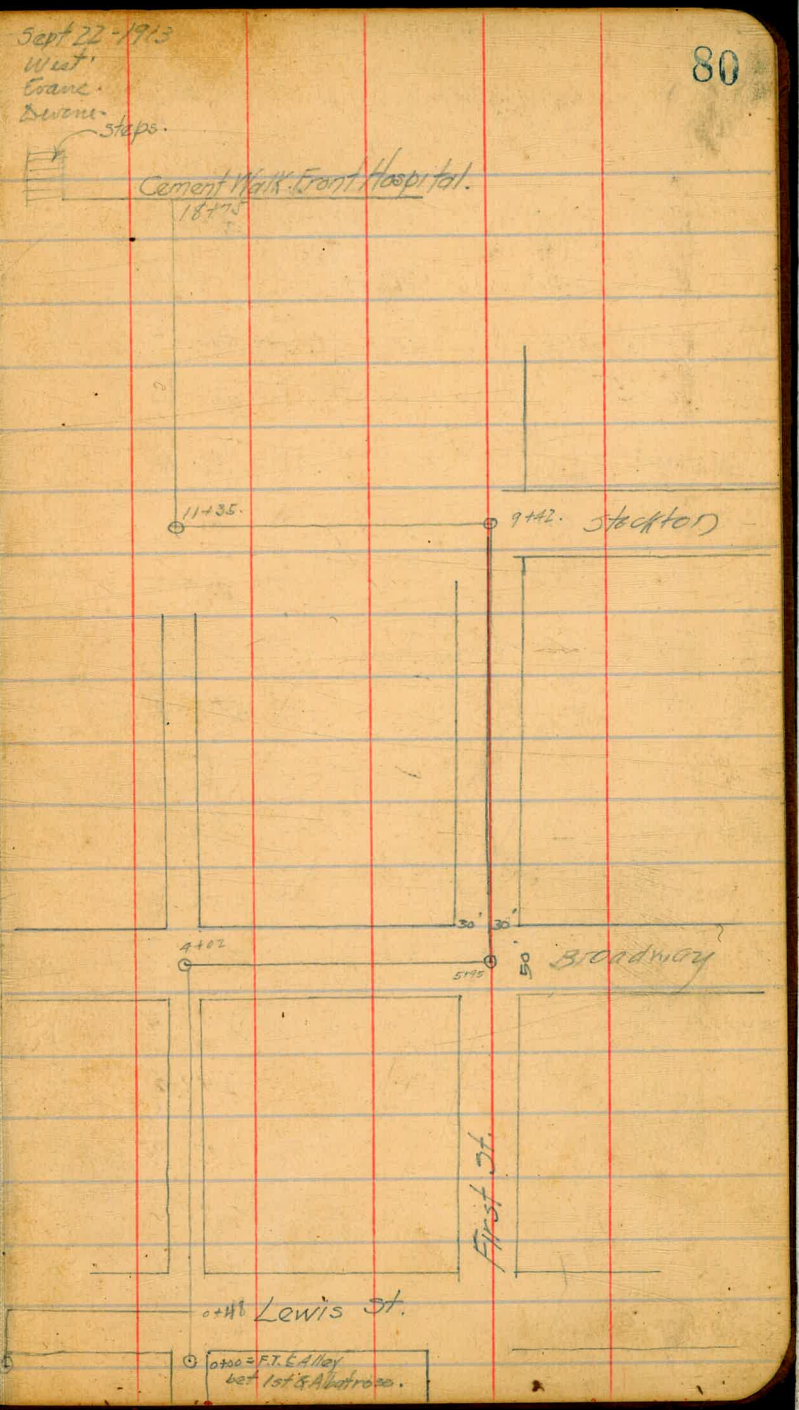
0+0 = ℄ of University		3.6	357.4
0+17		4.5	356.5
N Rail			
0+36		3.7	357.3
0+50		3.7	357.3
0+86.2	S Line Univ Ave	4.1	356.9
1+0		4.1	356.9
1+50		5.2	355.8
1+73	Gutter	5.7	355.3
2+0		5.1	355.9
2+04.5	W Line Hart St	5.0	3560
2+16.5		4.2	356.8
2+38.5		4.2	356.8
2+50		4.2	356.8
2+75		4.3	357.7



Levels for Proposed Sewer from County Hospital to F.T. on Lewis ℄ of Alley bet Albatross & First St.

B.M. Pole 20' W S W Cor of Lewis & Albatross				285.07
	6.73	291.80		
0+00 = F.T. ℄ Alley bet 1st & Albatross on Lewis.	Top Ring.		6.60	285.20
	Bot. F.T.		11.68	280.12
0+48 = ℄ Lewis			5.4	286.4
1+00			4.8	287.0
+50			4.3	287.5
2+00			3.7	288.1
+50			1.5	290.3
3+00			2.5	289.3
+50			3.3	288.5
TP			3.72	288.08
	4.78	292.86		
4+02 MH ℄ Alley + St.			5.5	287.4
4+50			4.7	288.2
5+00			4.6	288.3
+50			3.3	289.6
+52			4.3	288.6
5+93 = MH = ℄ First St + 2.90 L.		St.	5.2	287.7
			2.2	290.7

Sept 22 - 1913



		292.86		
6+50			5.2	287.7
7+00			5.4	287.5
+50			4.8	288.1
8+00			3.5	289.4
+25			2.3	290.6
+50			1.3	291.6
T.P.			1.17	291.69
	7.73	299.42		
9+00			5.6	293.8
9+42 = MH = ℄ Stockton ∠90°L			4.7	294.7
T.P.			5.04	294.38
	5.52	299.90		
9+50			5.4	294.5
+80			5.6	294.3
9+90			6.4	293.5
10+00			5.3	294.6
+25			5.8	294.1
+50			7.2	292.7
11+00			6.5	293.4
11+35 = ℄ Alley ∠89°30'R			8.3	291.6
T.P.			7.45	292.45
	4.49	296.94		
11+50			3.4	293.6
12+00			2.8	294.1
+50			1.5	295.4
13+00			1.7	295.2

Continued P 78

1434
1184
6 | 2.50
4.17

1584
1434
6 | 150
25

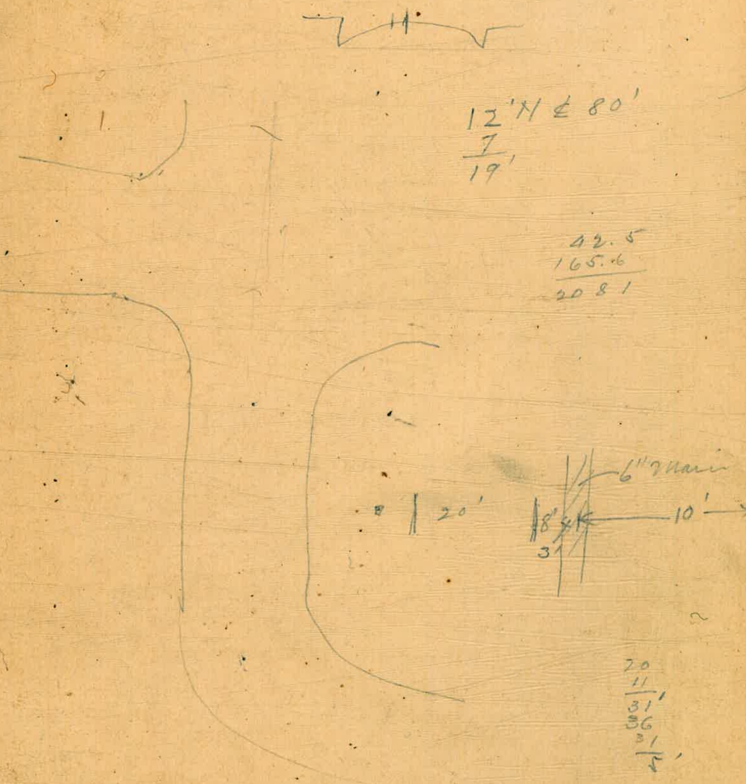
20.45
5.50
25.95

6 | 2.00
33

19.50
6.45

12' N ℄ 80'
7
19'

42.5
165.6
208.1



20
11
31
36
31
5

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 16 FEET WIDE. SIDE SLOPES 1½ TO 1.
FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9 5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12 8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14 0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21 2	21.4	8
9	21 5	21.7	21 8	22.0	22.1	22.3	22 4	22.6	22.7	22.9	9
10	23 0	23.2	23 3	23.5	23.6	23 8	23.9	24 1	24.2	24 4	10
11	24.5	24 7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	25.2	26 3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30 2	30 4	14
15	30.5	30 7	30 8	31.0	31.1	31.3	31 4	31 6	31.7	31 9	15
16	32.0	32 2	32.3	32.5	32.6	32.8	32.9	33 1	33.2	33.4	16
17	33 5	33 7	33.8	34.0	34.1	34 3	34 4	34 6	34 7	34 9	17
18	35.0	35 2	35 3	35.5	35.6	35 8	35.9	36 1	36.2	36 4	18
19	36.5	36.7	36 8	37.0	37.1	37.3	37.4	37.6	37.7	37 9	19
20	38.0	38 2	38.3	38.5	38.6	38 8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39 8	40.0	40.1	40.3	40.4	40.6	40.7	40 9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42 2	42.4	22
23	42.5	42.7	42 8	43 0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46 7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47 9	48.1	48 2	48.4	26
27	48 5	48.7	48.8	49.0	49 1	49.3	49.4	49 6	49.7	49 9	27
28	50.0	5 .2	50.3	50.5	50.6	50.8	50.9	51 1	51.2	51 4	28
29	51.5	51.7	51.8	52.0	52 1	52 3	52.4	52 6	52.7	52 9	29
30	53.0	53.2	53 3	53 5	53.6	53.8	53.9	54.1	54.2	54 4	30
31	54 5	54.7	54 8	55 0	55.1	55.3	55.4	55.6	55.7	55 9	31
32	56.0	56.2	56 3	56.5	56.6	56 8	56.9	57.1	57 2	57.4	32
33	57.5	57.7	57.8	58 0	58 1	58 3	58.4	58.6	58.7	58 9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61 0	61.1	61.3	61 4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62 6	62.8	62 9	63.1	63.2	63.4	36
37	63.5	63 7	63 8	64.0	64.1	64.3	64.4	64.6	64 7	64 9	37
38	65 0	65.2	65.3	65.5	65.6	65 8	65 9	66 1	66 2	66.4	38
39	66 5	66.7	66 8	67.0	67 1	67 3	67.4	67 6	67 7	67 9	39
40	68.0	68.2	68.3	68.5	68 6	68.8	68 9	69.1	69.2	69 4	40

Calculated by F. E. Paradis. C. E.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ TO 1.
FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.00	7.15	7.30	7.45	7.60	7.75	7.90	8.05	8.20	8.35	0
1	8.50	8 65	8.80	8.95	9.10	9.25	9.40	9.55	9.70	9.85	1
2	10.00	10.15	10.30	10.45	10.60	10.75	10.90	11.05	11.20	11.35	2
3	11.50	11.65	11.80	11.95	12.10	12.25	12.40	12.55	12.70	12.85	3
4	13.00	13.15	13.30	13.45	13.60	13.75	13.90	14.05	14.20	14.35	4
5	14.50	14 65	14.80	14.95	15.10	15.25	15.40	15.55	15.70	15.85	5
6	16 00	16.15	16.30	16.45	16.60	16.75	16.90	17.05	17.20	17.35	6
7	17.50	17.65	17.80	17.95	18.10	18.25	18.40	18.55	18.70	18.85	7
8	19.00	19.15	19.30	19.45	19.60	19.75	19.90	20.05	20.20	20.35	8
9	20.50	20.65	20.80	20.95	21.10	21.25	21.40	21.55	21.70	21.85	9
10	22.00	22 15	22.30	22.45	22.60	22.75	22.90	23.05	23.20	23.35	10
11	23.50	23.65	23.80	23.95	24.10	24 25	24.40	24.55	24.70	24.85	11
12	25.00	25.15	25.30	25.45	25.60	25.75	25.90	26.05	26.20	26.35	12
13	26.50	26.65	26.80	26.95	27.10	27.25	27.40	27.55	27.70	27.85	13
14	28 00	28.15	28.30	28.45	28.60	28.75	28.90	29.05	29.20	29.35	14
15	29.50	29.65	29.80	29.95	30.10	30.25	30.40	30.55	30.70	30.85	15
16	31.00	31.15	31 30	31.45	31.60	31.75	31.90	32.05	32.20	32.35	16
17	32 50	32.65	32.80	32.95	33.10	33.25	33.40	33.55	33.70	33.85	17
18	34.00	34.15	34.30	34.45	34.60	34.75	34.90	35.05	35.20	35.35	18
19	35.50	35.65	35.80	35.95	36.10	36.25	36.40	36.55	36.70	36.85	19
20	37.00	37.15	37.30	37.45	37.60	37.75	37.90	38.05	38.20	38.35	20
21	38.50	38.65	38.80	38.95	39.10	39.25	39.40	39.55	39 70	39.85	21
22	40 00	40.15	40 30	40.45	40.60	40 75	40.90	41.05	41.20	41.35	22
23	41.50	41.65	41.80	41.95	42.10	42.25	42.40	42.55	42.70	42.85	23
24	43.00	43.15	43.30	43.45	43.60	43.75	43.90	44.05	44.20	44.35	24
25	44.50	44.65	44.80	44.95	45 10	45.25	45.40	45 55	45.70	45.85	25
26	46.00	46.15	46.30	46.45	46 60	46.75	46 90	47.05	47.20	47.35	26
27	47.50	47 65	47.80	47.95	48.10	48.25	48.40	48.55	48 70	48.85	27
28	49.00	49.15	49.30	49.45	49.60	49.75	49.90	50.05	50.20	50.35	28
29	50.50	50.65	50 80	50.95	51.10	51.25	51.40	51.55	51.70	51.85	29
30	52.00	52.15	52.30	52.45	52.60	52.75	52.90	53.05	53.20	53.35	30
31	53.50	53.65	53.80	53.95	54.10	54.25	54.40	54.55	54.70	54.85	31
32	55 00	55.15	55.30	55.45	55.60	55.75	55 90	56.05	56.20	56.35	32
33	56.50	56.65	56.80	56.95	57.10	57.25	57.40	57.55	57.70	57.85	33
34	58.00	58.15	58.30	58 45	58.60	58.75	58.90	59.05	59.20	59 35	34
35	59.50	59.65	59.80	59.95	60.10	60.25	60.40	60.55	60.70	60.85	35
36	61.00	61.15	61.30	61.45	61.60	61.75	61.90	62 05	62.20	62.35	36
37	62 50	62.65	62.80	62.95	63.10	63.25	63 40	63.55	63.70	63.85	37
38	64 00	64.15	64.30	64 45	64.60	64.75	64.90	65.05	65.20	65.35	38
39	65 50	65.65	65.80	65 95	66.10	66.25	66.40	66.55	66.70	66.85	39
40	67.00	67.15	67.30	67.45	67.60	67.75	67.90	68.05	68.20	68.35	40

Calculated by F. E. Paradis, C. F