

957

F.B. 957

LEVEL BOOK

273

IND

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TABLES FOR EXCAVATIONS AND EMBANKMENTS.

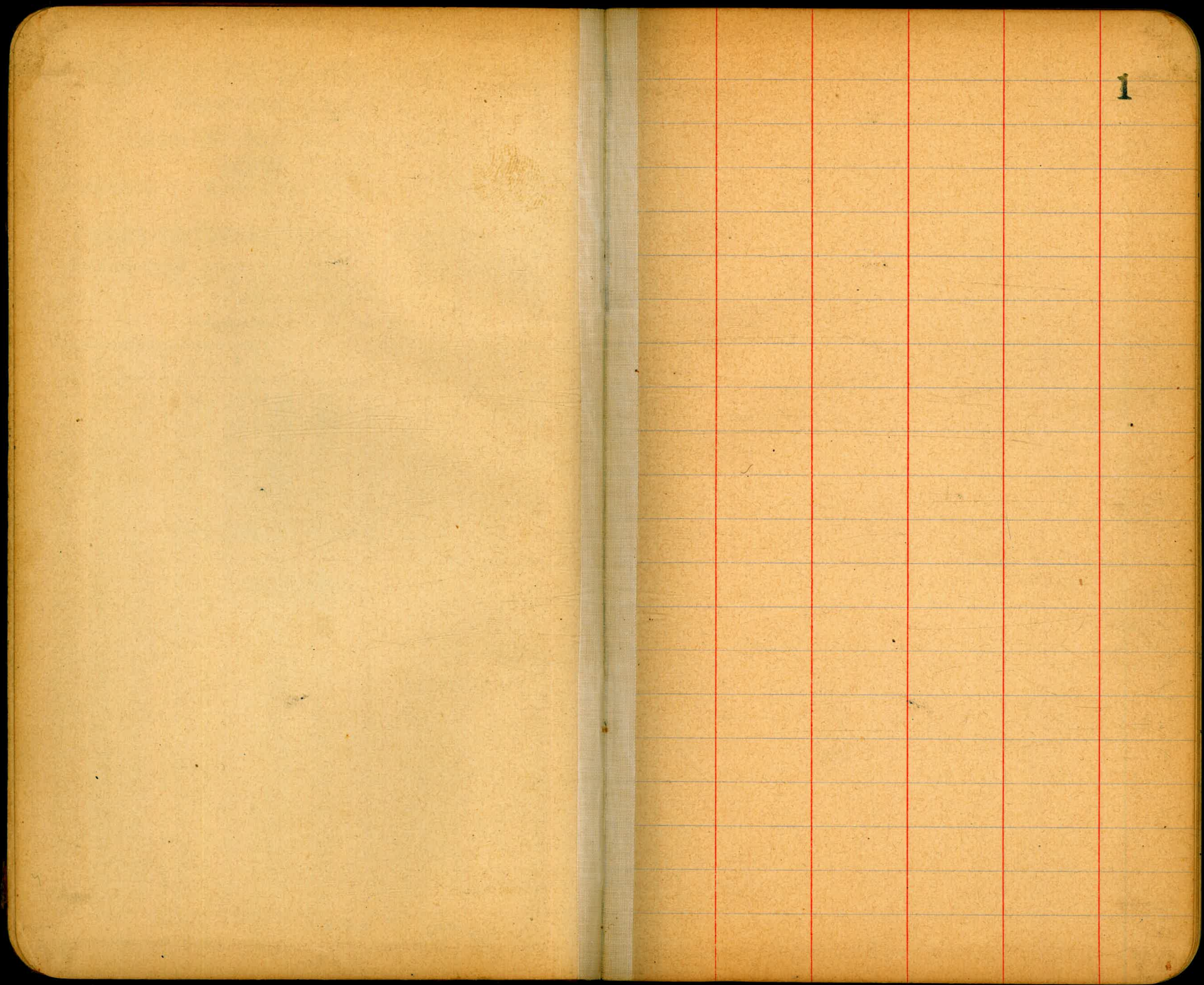
DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.
FOR SINGLE TRACK EXCAVATION.

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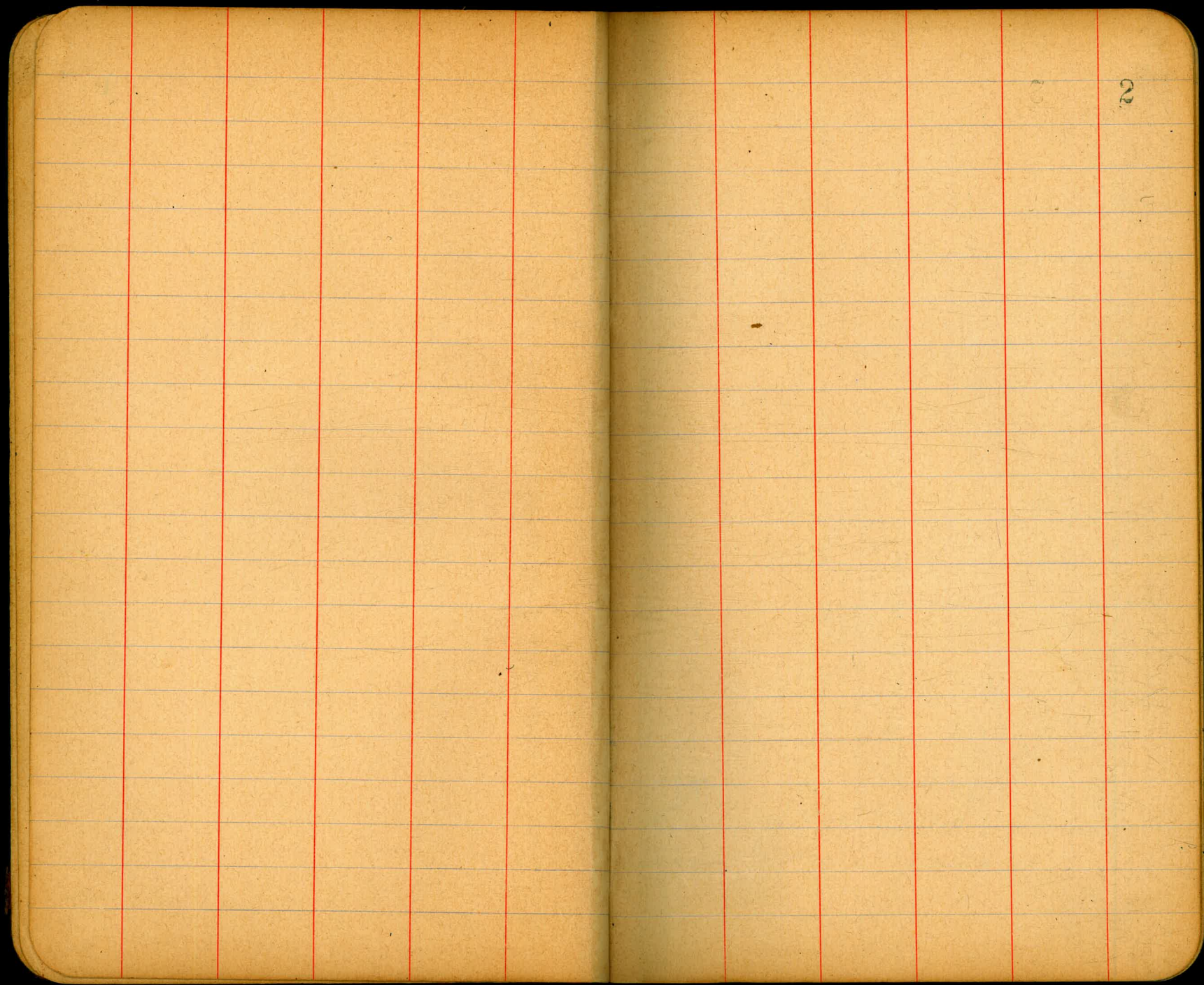
957

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.



I



2

Levels for Sennar Alley between 37th Washington
 from Sta 4+71.5 Canyon Line N. for 706.9' to 35' S. of
 S. of U.P. 25.

318.89

5

		294.73		
0+0 = Sta 4+71.5			5.4	289.3
T.P.	11.79	306.26	0.26	294.47
+25			7.6	298.7
+50		✓	6.4	299.9
+80			4.7	301.6
+83			3.2	303.1
+93			3.2	303.1
+94			3.8	302.5
1			3.5	302.8
+13			2.7	303.6
+32			3.6	302.7
+33			2.8	303.5
+50			2.8	303.5
2			0.2	306.1
T.P.	12.85	318.89	0.22	306.04
+50			9.2	309.7
3			6.4	312.5
+50			4.7	314.7

Sheet 15

4+0			2.5	316.4
+50			0.5	318.4
T.P.	9.05	327.60	0.34	318.55
5			7.3	320.3
+50			6.0	321.6
6			4.8	322.8
+50			3.5	324.1
7			3.2	324.4
+061 ⁹ = 35' S. of U.P. 25			3.1	324.5

Levels for sewer Alley bet. 32nd & Washington South
 for 480 to 35' N of N.L. Redwood.
 294.73

0+0=573	9+71 ⁵		5.4	289.3
+10			5.3	289.4
+24		✓	10.8	283.9
+32			12.1	287.6
+50			8.8	288.9
T.P.	11.79	306.26	0.26	294.47
+70	cut 8'		10.8	295.5
1			6.4	299.9
+50			2.1	304.2
2	cut 7'		0.1	306.2
T.P.	10.99	317.01	0.24	306.02
+50			10.1	306.9
3			10.2	306.8
+50			10.1	306.9
4			9.5	307.5
+50	cut 7'		9.1	307.9
+80=35' N of Redwood.			8.4	308.6

Sheet 15

Levels for Sewer & Alley between Washington & Webster
 from pt. 30' S. of N.L. Redwood N for 1301.57 to 4 UPBS Thence East
 in 4 UPBS to sta 13+51.2 or Alley North, Thence North to Sta 13+91.2 = 318.57 Page 19
 B.M. 314.92

318.57

				+79		7.2	311.4	
	3.65	318.57		+80		6.4	312.2	
0+0		✓	4.4	314.2		6.4	317.2	
+50			4.1	314.5		5.5	313.3	
1			4.2	314.4		5.0	313.6	
+50			5.0	313.6		4.3	314.3	
2			5.5	313.1		3.7	314.9	
+50			5.3	313.3	T.P. 8.56	323.79	3.34	315.23
3			4.8	313.8		+50	10.1	313.7
+50			4.9	313.7		9	11.2	312.6
4			5.5	313.1		+50	11.2	312.6
+50			6.4	312.2		10	9.6	314.2
5 out 5'			6.8	311.8		+50	8.0	315.8
+50			6.6	312.0		11	6.5	317.3
6			6.3	312.3		+50	4.9	318.9
+30 S.L. Thorn			5.8	312.8		12	3.8	320.0
+31			6.6	312.0	+51.5 = 35' S of UPBS		3.1	320.7
+40			6.4	312.2	5.50	326.20		
+41			7.7	310.7	475		5.0	321.2
+50			6.9	311.7	495		4.5	321.7
					496		5.1	321.1
					13+05 = 4 UPBS ST		4.8	321.4
					+51.2 = 4 UPBS Alley North		5.6	320.6
					+64		5.6	320.6
					+66		4.6	321.6
					+91.2 = Sta 13+05 page 19		4.3	321.9

Sheet 15

Levels for Sewer & Alley bet Webster & Franklin from
 pt 30' S of N.L. Redwood N to 12.5' to pt 35' S of U.P. 25 ST

B.M. Hub. N.E. Webster & Redwood

311.92

+73

2.5 318.7

8

9 9.48 321.40

+74

3.4 318.0

0+0 9.3 317.1

+93

3.2 318.2

+50 8.0 313.4

+94

2.3 319.1

1 7.4 314.0

7

2.3 319.1

+50 7.0 314.4

+50

1.5 319.9

2 6.7 314.7

8

5.8 320.1

+50 6.3 315.1

+50

5.4 320.5

3 6.2 315.2

9

5.5 320.4

+50 5.8 315.6

+50

5.3 320.6

4 5.4 316.0

10

5.0 320.9

+50 5.1 316.3

+50

5.1 320.8

5 4.7 316.7

11

5.5 320.4

+50 4.2 317.2

+50

5.7 320.2

6 3.6 317.8

12

6.3 319.6

+23 3.3 318.1

+52 = 35' S of U.P. 25

7.2 318.7

+24 4.0 319.4

+42 3.6 317.8

+43 2.6 318.8

+50 2.6 318.8

Sheet 15

T.P. 579

325.86

1.5 319.9

1.33 320.07

Levels for Sewer & Alley bet Franklin & Gregory
 from pt 30' S of N.L. Redwood N for 987

B.M.	9.50	322.90	313.40
0+0		9.90	313.00
+50		9.0	313.9
1		8.4	314.5
+50		7.8	315.1
2		7.4	315.5
+50		7.0	315.9
3		6.6	316.3
+50		6.3	316.6
4		5.9	317.0
+50		5.5	317.4
5		5.5	317.4
+50		5.1	317.8
6		4.7	318.2
+40		4.2	318.7
+41		5.0	317.9
+50		4.3	318.6
+77		4.6	318.3
+80		3.8	319.1

Sheet 16

7+0	3.6	319.3
+50	2.9	320.0
8	2.6	320.3
+50	2.1	320.8
9	1.9	321.0
+50	1.6	321.3
+87	1.4	321.5

Levels for sewer & Gregory from pt 30' S of N.L.
Redwood N for 600' to 30' S of S.L. Thorn

322.90

0+0		11.5	311.4
+50	✓	10.4	312.5
1		9.9	313.0
+50		9.5	313.4
2		9.3	313.6
+50		8.9	314.0
3		8.7	314.2
+50		8.2	314.7
4		7.6	315.3
+50		7.0	315.9
5		6.6	316.3
+50		6.1	316.8
6+0 = 30' S of Thorn st		5.5	317.4

Sheet 16

Levels for sewer Redwood St 30's of M.L. from sta 0+0
 Canyon Line E of Boundary St West for 1443.3 To & Alley
 between Washington & Webster

B.M. 0+0	11.94	262.57		250.63
0+0			11.9	250.7
+18			10.1	252.5
T.P.	12.99	275.12	0.44	262.13
+50			10.1	265.0
T.P.	12.34	286.89	0.57	274.55
+87			7.5	279.4
1+0			5.0	281.9
1+25			1.9	285.0
T.P.	12.21	298.98	0.12	286.77
+50			9.0	290.0
2			1.9	297.1
T.P.	11.64	310.21	0.41	298.57
+50			8.1	302.1
3			5.6	304.6
+50			3.8	306.4
4			2.6	307.6
+50			2.1	308.1
5			1.6	308.6
+50			2.0	308.2
6			1.5	308.7
T.P.	8.03	318.24	0.00	310.21
+50			7.8	310.4

Sheet 16

6+93²

7

+50

8

+43²

+50

9

+50

10

+50

11

+43²

+50

12

+50

13

+50

14

+43²

318.24

6.9

7.1

6.9

6.1

5.3

5.5

5.3

6.0

6.4

5.8

5.2

6.2

6.8

7.0

7.2

7.1

6.6

5.8

4.1

311.3

311.1

311.3

312.1

312.9

312.7

312.9

312.2

311.8

312.4

313.0

312.0

311.4

311.7

311.0

311.1

311.6

312.4

314.1

11

Levels Canyon Line Sewer ^{beginning at point} East of Boundary St and
 Intersection of Line 30° 5' of N. L. Redwood.

273.53

12

B.M. Hub 040	11.94	262.57	250.63	4+30		8.9	264.6	
040		11.9	250.7	+50		7.9	265.6	
+50		11.6	251.0	+80		5.6	267.9	
+75		13.8	248.8	5		6.1	267.4	
+80		11.9	250.7	+10		8.2	265.3	
1		10.3	257.3	+50		5.8	267.7	
+35		9.3	253.3	+62 ⁶	9° 51' L	5.6	267.9	
+40		10.5	252.1	+75		6.3	267.2	
+50		8.8	253.8	6		4.9	268.6	
2		5.3	257.3	+45		5.1	268.4	
+32 ³		6.3	256.3	+50		5.0	268.5	
+50		4.6	258.0	+60		3.1	270.4	
+80		3.2	259.4	+90		2.1	271.4	
+86		4.3	258.3	7		2.9	270.6	
3		3.4	259.2	+15	0	0.5	273.0	
+50		0.3	262.3	T.P.	12.24	285.66	0.11	273.42
T.P.	11.06	273.53	0.10	262.47	+40		10.6	275.1
+95		10.6	262.9	+50		9.1	276.6	
4		11.3	262.2	+60		7.8	277.9	
+05		12.3	261.2	+80		11.5	274.2	
				8		9.1	276.6	

Sheet 16

28566

8450		6.0	279.7
+96 ⁵ L		2.8	282.9
9		2.8	282.9
+25		4.9	280.8
+30		3.3	282.4
T.P.	11.46	1.32	284.34
145		5.2	290.6
+50		4.8	291.0
+60 ⁸ L 50 09'		4.5	291.3
+65		5.5	290.3
+80		14.3	281.5
+95		15.2	280.6
10		14.6	281.7
+30		10.9	284.9
+50		10.5	285.3
+70		11.2	284.6
+80		11.7	284.1
11		10.2	285.6
+10		11.2	284.6
+50		7.5	288.3
+60		7.2	288.6
+70		8.2	287.6

29580

13

+80		6.6	289.7
12		6.3	289.5
+30		5.7	290.1
+50		3.8	292.0
T.P.	11.73	0.23	295.57
13		12.1	295.7
+50		12.1	295.7
+55		11.9	295.4
+70		6.6	300.7
+95 ⁶ - 4 Gregory St		6.88	300.42

Levels for seven Boundary St. taken on Boundary line from sta 8+96.5 south for 770'

285.66

0+0 = sta 8+96.5	2.8	782.9
+50	5.9	779.8
1	7.0	778.7
+50	7.3	778.4
2	3.9	781.8
+30	2.5	783.2
+50	2.7	783.0
3	1.1	784.6
T.R. 9.52	295.10	0.08 295.58
+50	9.6	785.5
+75	10.0	785.1
4	9.2	785.9
+50	5.4	789.7
+65	4.8	790.3
5	5.1	790.0
+50	5.2	789.9
6	5.7	789.4
+50	5.4	789.7
7	5.2	789.9
+50	4.4	790.7
+70	4.2	790.9

Sheet 17

Levels for line North for 360' on Boundary Line

295.80

14

0+0 = sta 8+96.5	12.9	782.9
+50	5.3	790.5
+70	4.7	791.1
1	7.0	788.8
+50	3.5	792.3
+70	1.3	794.5
2	10.5	785.3
+50	7.0	788.8
3	5.0	790.8
+50	2.8	793.0
+60	2.4	793.4

Sheet 17

Levels for Sennar & Gregory St from Sta
 13+95⁶ Canyon Line
 South for 482⁸' To 30' N of Thorn St
 B.M. \wedge 300.42

	6.88	307.30		
0+0			6.9	300.4
+50			3.7	308.6
T.P	13.05	319.68	0.67	306.63
1			11.9	307.8
+50			8.4	311.3
2			5.4	314.3
+50			3.8	315.9
3			2.6	317.1
+50			4.7	318.0
4			1.3	318.4
+50			1.3	318.4
+82 ⁸ = 30' N of Thorn			1.5	318.7

Sheet 16

Levels Gregory St from Sta 13+95⁶ Canyon
 Line to & Upas St. Sta 0+99.5

	6.88	307.30		300.42	15
0+0			6.9	300.4	
+25			7.0	300.3	
+50			5.7	301.6	
+99.5			1.22	306.08	

Sheet 16

Levels McKinley St from Sta 9+60² canyon line south
 for 835.4 to 30' N of N. Li Redwood

B.M.				
0+0 = Sta 9+60 ²	12.69	303.96	291.32	
+35			12.6	291.4
+50			11.9	292.1
1			10.5	293.5
+50			5.0	299.0
			0.1	303.9
T.P.	9.29	313.11	0.14	303.82
+74 ³ L 45° 02'			7.6	308.5
2			5.9	307.2
+50			4.8	308.3
3			4.6	308.5
+50			4.9	308.2
4			4.9	308.2
+50			4.4	308.7
5			4.1	309.0
+50			3.8	309.3
+91 ⁵ R 16° 24'			3.6	309.5
6			3.6	309.5
+50			3.6	309.5
7			3.8	309.3
+50			4.0	309.1

Sheet 17

313.1

8+0	4.3	308.8
+35 ² = 30' N of Redwood	4.4	308.7

16

Levels of Upas st from Sta 0499²⁵ Gregory
West for 110'

B.M.	10.56	316.64	306.08
0+0 = 0499 ²⁵		10.6	306.0
+50		9.4	307.2
1		8.3	308.3
+10		8.1	308.5

Sheet 17

Levels of Upas st from Sta 0499²⁵ Gregory
West for 199.3'

17

		316.64	
0+0 = 0499 ²⁵		10.6	306.0
+33 ⁴ = E alley going north		12.25	304.39
+50		13.5	303.1
+75		14.1	302.5
1		12.9	303.7
+49 ³		8.5	308.1

Sheet 17

Levels of Alley bet Franklin & Gregory from
Sta 149³ Upas st south for 260.5'

		316.64	
0+0 = 149 ³		8.5	308.1
+06		8.7	307.9
+08		7.5	309.1
+50		4.0	312.6
T.P.	9.26	324.61	11.9 315.35
1		8.4	316.2
+50		6.2	318.4
2		4.5	320.1
+50		3.4	321.4
+60 ⁵		3.3	321.3

Levels for Sewer & Alley between Franklin & Boundary
from & UP 25 N for 535'

B.M.		304.39	
	12.90	317.29	
0+0 = & UP 25 N for 535'	12.9	304.4	
+14	12.5	304.8	
+16	10.9	306.4	
+50	8.0	309.3	
1	5.4	311.9	
+50	3.9	313.4	
2	2.3	315.0	
T.P.	8.21	323.69	1.81
+50			8.7
3			7.9
+14			7.8
+15			8.6
+25			8.6
+26			9.3
+45 & Myrtle			7.9
+64			8.3
+65			7.5
4			7.7
+50			6.4
5			4.7
+35			3.8

Sheet 17

Levels for Sewer & Alley from & Alley bet. Franklin
& Boundary west to & Alley between Webster & Washington

		323.69	
0+0 = & Alley bet Boundary & Franklin	7.9	315.8	
+50			8.4
1			8.9
+50			9.7
1.65 & Franklin			9.76
2			9.9
2+50			8.7
3+00			7.2
3+30 & Alley			6.31
+50			5.5
4			4.0
+50			2.4
5			1.5
T.P.	8.38	330.57	11.50
+50			7.3
6			5.9
+50			4.8
+60 = & Alley bet Webster & Wash			4.64

Sheet 17

Levels for sewer & Alley bet Franklin & Webster South
 for 305' to 25' N of UP25
 323.69

0+0 = 3+30 Myrtle	6.3	317.4
+19	7.3	316.4
+20	6.7	317.0
+30	6.5	317.7
+35	7.8	315.9
+50	7.2	316.5
+65	9.1	314.6
1	8.2	315.5
+50 cut 7'	8.4	315.3
2	9.7	314.0
+40	9.6	314.1
+50 cut 7'	8.0	315.7
3+05	6.3	317.4

Sheet 17

Levels for sewer & Alley between Washington & Webster
 from 4 Myrtle South for 305' to 25' N of UP25
 320.57

19

0+0 = 6+60 Myrtle	4.6	320.0
+19	5.9	324.7
+20	4.9	325.7
+30	4.7	325.9
+31	2.4	328.2
+50	2.3	328.3
1	3.6	327.0
+50	4.5	326.1
2	6.0	324.6
+50	7.4	323.7
3+05	8.7	321.9

Sheet 17

Levels for sewer Φ Franklin from Φ Myrtle to Φ

Dright
B.M.

	12.53	326.76		313.93
0+0 = Φ Myrtle			12.5	314.0
+19			13.1	313.4
+20			12.1	314.4
+30			11.9	314.6
+31			10.5	316.0
+50			10.1	316.4
1			8.8	317.7
+50			7.0	319.5
2			6.2	320.3
+50			4.6	321.9
3			3.4	323.1
+50			2.8	323.7
T.P.	6.89	331.62	1.73	324.73
4			6.7	324.9
+50			5.8	325.8
5			4.8	326.8
+50			4.3	327.3
6			4.0	327.6
+50			3.4	328.4
+60 Φ Dright			3.0	328.6

Sheet 18

Levels for sewer & Alley bet. Franklin & Webster from
 & Myrtle north to Sta 13+20 & Landis Thence west on
 & Landis to Sta 14+85 & Webster Thence north on &
 Webster to Sta 19+75

13.M.	7.15	324.53		317.38	7.10		334.10		
					+50			4.4	329.7
0+0 = & Myrtle			7.2	317.3	8			3.9	330.2
+20			7.5	317.0	+50			3.1	331.0
+21			6.6	317.9	9			2.9	331.2
+30			6.3	318.2	+50			2.2	331.9
+40			13.5	311.0	10			1.7	332.4
+50			13.5	311.0	+50			1.8	332.3
+70			11.8	312.7	11			1.8	332.3
1			9.9	314.6	11			2.4	331.7
+50			6.3	318.2	+50			2.4	331.7
2			5.1	319.4	12			2.4	331.7
+50			4.2	320.3	+50			1.7	332.4
3			3.0	321.5	13			1.1	333.0
+50			1.5	323.0	13			1.0	333.1
4			0.4	324.1	+20 & Landis St			0.92	333.18
T.P	10.32	334.10	0.75	323.78	T.P.	9.78	342.96		
+50			9.5	324.6	+50			8.8	334.2
5			8.3	325.8	14			6.9	336.1
+50			6.9	327.2	+50			6.1	336.7
6			6.5	327.6	+85 & Webster St	38 th		5.5	337.5
+50			5.6	328.5	15			5.5	337.5
					+50			4.6	338.4

Sheet 18

342.96

1640	4.4	338.6
+150	4.2	338.8
17	4.0	339.0
+150	3.8	339.2
18	3.0	340.0
+150	2.9	340.1
19	2.7	340.3
+150	4.0	339.0
+175	4.5	338.5

22

Levels for sewer & Alley bet Washington & Webster
from & Myrtle to & University

B.M.	8.90	334.83	325.93
+10 = & Myrtle	8.9	325.9	
+19	9.5	325.3	
+20	8.6	326.2	
+30	8.2	326.6	
+31	5.4	329.4	
+50	4.9	329.9	
1	4.5	330.3	
+50	4.3	330.5	
2	4.5	330.3	
+50	4.9	329.9	
3	5.5	329.3	
+50	6.3	328.5	
4	7.3	327.5	
+50	8.6	326.7	
5	9.0	325.8	
+50	10.3	324.5	
+80	12.1	322.7	✓
6	10.9	323.7	
+50	9.0	325.8	

Sheet 18

		334.83	
740			7.8 327.0
+50			5.4 329.4
T.P.	9.24	340.15	3.92 330.91
8			7.2 331.0
+50			8.4 331.8
9			7.2 333.0
+50			6.8 333.4
10			6.3 333.9
+50			5.3 334.9
11			4.4 335.8
+50			3.6 336.6
12			3.0 337.2
+50			2.4 337.8
13			2.4 337.8
+50			1.7 338.5
14			0.7 339.5
T.P.	8.53	348.49	0.19 339.96
+50			2.5 340.0
15			8.1 340.4
+50			7.4 341.1
16			7.1 341.4
+50			6.5 342.0

348.49

17		6.2	347.3
+50		5.7	342.8
18	1	5.0	343.5
+50		4.4	344.1
19		4.3	344.2
+50		4.8	343.7
20		5.4	343.1
+50		6.9	341.6
21		9.3	339.2
+50		12.8	335.7
T.P.	106	336.92	12.63 335.86
22		9.6	327.3
+50		13.1	323.8
+25		14.9	322.0
23		12.5	324.4
+35		7.1	332.8
+50		4.6	332.3
+75 University		3.9	333.0

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3460

282.0

3476

276.9

3495

277.2

4145

279.2

4495

280.3

5420

280.5

5425

282.7

5445

286.0

5466⁶ L. 40° 59'

289.0

Levels of Thoin St from Alley bet 32nd Bancroft
 To Alley bet Bancroft & 38th St
 B.M. 12.77 302.07 289.30 ^{30 1/2} Dunt 26
 Shaw
 Bonker

T.P. 11.71 313.12 0.66 301.41

0+0 9.6 303.5

150 9.1 304.0

1 8.3 304.8

150 7.1 306.0

✓ 5.3 307.8

150 3.2 309.9

3 Alley 1.3 311.8

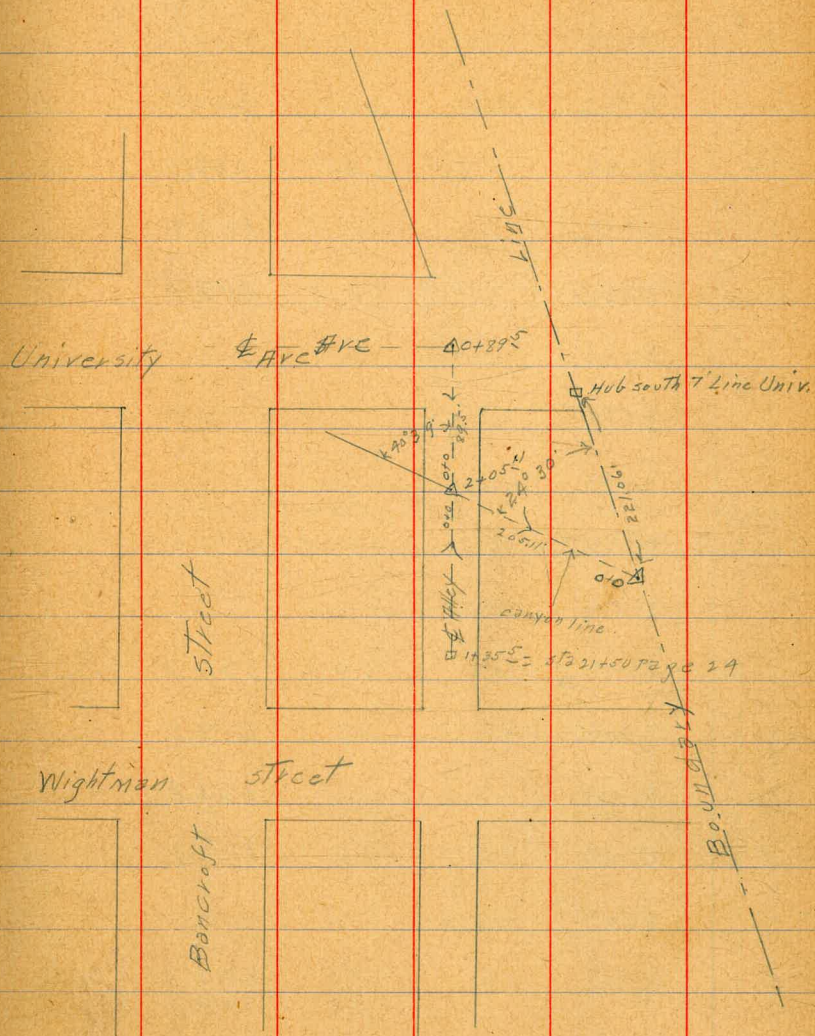
Levels for proposed sewer from sta 0+0 boundary line
 to station 1+4 H/ly sketch opp page

B.M. N. M. Brassley Univ. Boundary 333.44
 B.M. 7 2.25 335.69
 T.P. 5.54 328.93 12.30 323.39

0+0	↓	8.8	320.1
+21		12.4	316.5
+24		11.3	317.6
+50		11.5	317.4
+64	Sheet 18	10.5	318.4
+72		9.2	319.7
+84		6.8	322.1
+90		6.5	322.4
1		11.4	317.5
+15		10.9	318.0
+22		8.5	320.4
+50		7.5	321.4
+65		9.2	319.7
+83		5.5	323.4
2	6.0	322.9	
+05 ¹¹	6.9	322.0	

6/15
 Quille
 Shaw
 Bunker.

27



Levels for proposed sewer & Alley from Sta 2+05⁴
Canyon Line North To University - see sketch page 27

328.93

0+0 = Sta 2+05 ⁴		6.9	322.0
T.P.	9.28	337.47	0.74
+30	√	10.0	327.5
+49 ⁵		4.8	332.7
+63 ⁵		5.3	332.2
+89 ⁵ = University		4.5	333.0

Sheet 18

Levels for proposed sewer & Alley from Sta 3+05⁴ Canyon
Line South for 135.5 To Sta 21+50 page 24 - sketch page 27

328.93

0+0 = Sta 2+05 ⁴	√	6.9	322.0
+04		9.1	319.8
+07		6.5	322.4
+15		4.8	324.1
T.P.	9.28	337.47	0.74
+37		5.9	331.6
+50		5.0	332.5
1		6.3	331.2
+10		6.3	331.2
+35 = Sta 21+50 page 24		1.8	335.7

Levels for proposed sewer 32nd & Thorn Sts
beginning at Sta 3+35⁴ Canyon Line. - see sketch page 25

28

B.M.	7.78	297.08	289.30
0+0 = Sta 3+35 ⁴ Canyon Line		16.6	280.5
+44		14.0	283.1
+46		15.3	281.8
+50		15.4	281.7
+65		13.9	283.7
+67		11.3	285.8
+75		10.6	286.5
1		7.3	289.8
+27		3.3	293.8
+50		1.7	295.4
T.P.	12.25	309.34	0.49
2		4.2	300.1
+50		5.4	303.9
+67		5.1	304.2
+85 = Thorn		3.8	305.5
3		4.2	305.1
+50		5.7	303.6
+63		6.4	302.9
4		5.9	303.4
+34 = Alley bet 32 nd & Panoraft,		5.8	303.5

25
24
16
Dunkle
Shaw
Bunker

11/13/22

Gregory
Moore
Ellis
Shaw

CROSS SECTION OF THE
East 30' of Harbor St

How 10.01

5.99

BP on S. Butler
Broadway Pier

The East Line of these sections is
The West ✓ ✓ the so-called Park Strip

S.L. Broadway

200' S

W	5.0	6.0	W	5.3	4.7
C	4.9	5.1	C	5.4	4.6
E	4.7	5.3	E	5.4	4.6
			T.P.	2.90	9.16
				376	626
				250' S	
			E	4.4	4.8
			C	4.5	4.7
			W	4.3	4.9

50' S

E	4.7	5.3			
C	5.1	4.9			
W	5.5	4.5			

100' S

W	5.4	4.6	W	4.0	5.2
C	5.2	4.8	C	4.2	5.0
E	4.9	5.1	E	4.9	4.3

300.76 S = N.L. E ST 75' wide

150' S

E	4.9	5.1	E	4.0	5.2
C	5.3	4.7	C	4.1	5.1
W	5.4	4.6	W	4.1	5.1

S.L. E ST

W	4.0	5.2
C	3.8	5.4
E	4.0	5.2

50' S

E	3.7	5.5
C	3.6	5.6
W	3.9	5.3

100' S

W	4.2	5.0
C	4.2	5.0
E	4.1	5.1

150' S

E	3.8	5.4
C	4.1	5.1
W	4.1	5.1

200' S

W	4.1	4.8
C	4.2	5.0
E	4.0	5.2

250' S

E	3.9	5.3
C	4.1	5.1
W	4.2	5.0

299.82' S = NL F ST 75' wide

W	4.6	4.6
C	4.6	4.6
E	4.5	4.7

T.P. 2.56 8.72 300 6.16 Top of N 4/6

d F ST

E	4.6	4.1
C	4.6	4.1
W	4.4	4.3

S.L. F ST = 0+00 & measurements

W	4.4	4.3
C	4.6	4.1
E	4.5	4.2

 $\Delta = 22^{\circ} 05' 55''$
 $18.07' S = P.C. \& \text{radius} = 292.27$

E	4.6	4.1
C	4.6	4.1
W	4.4	4.3

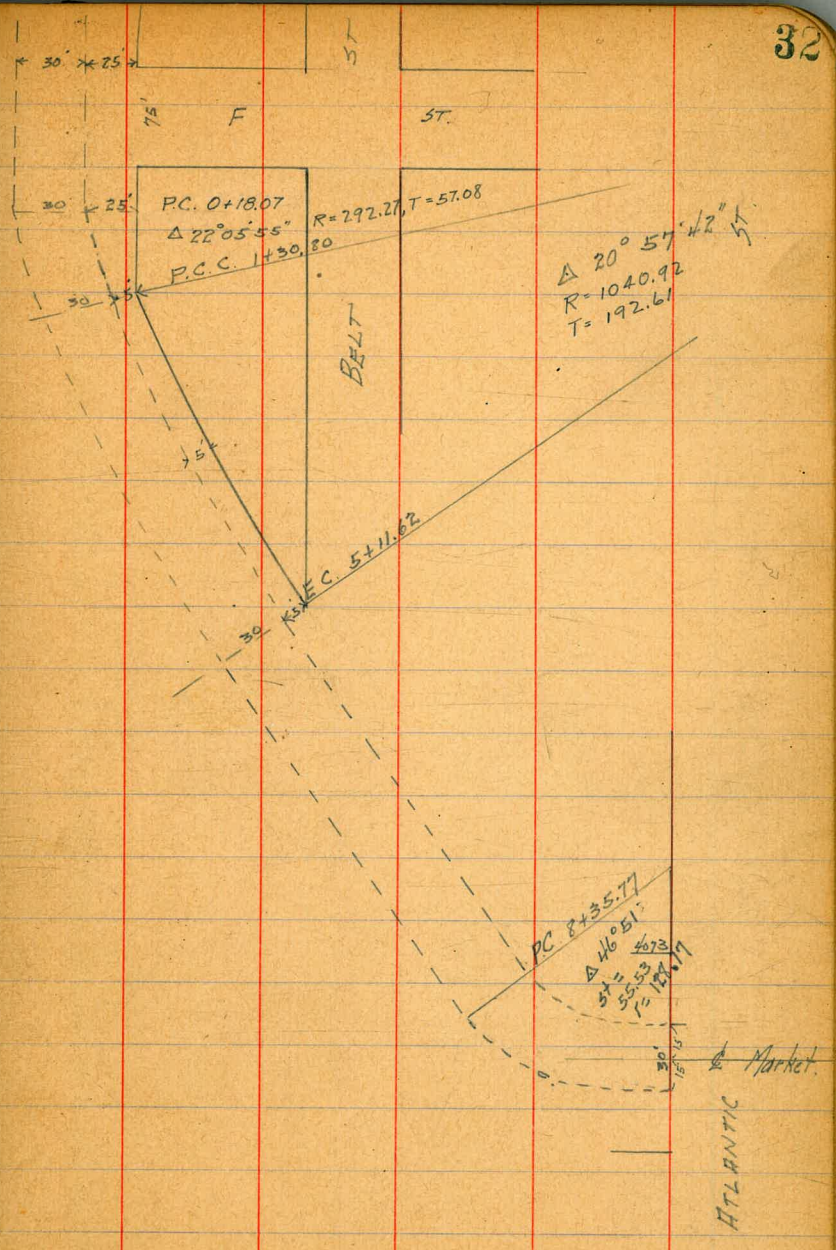
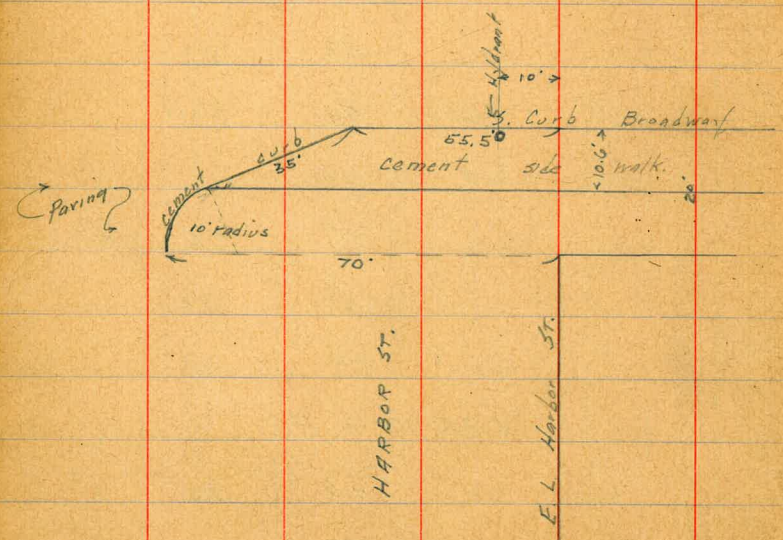
50' S

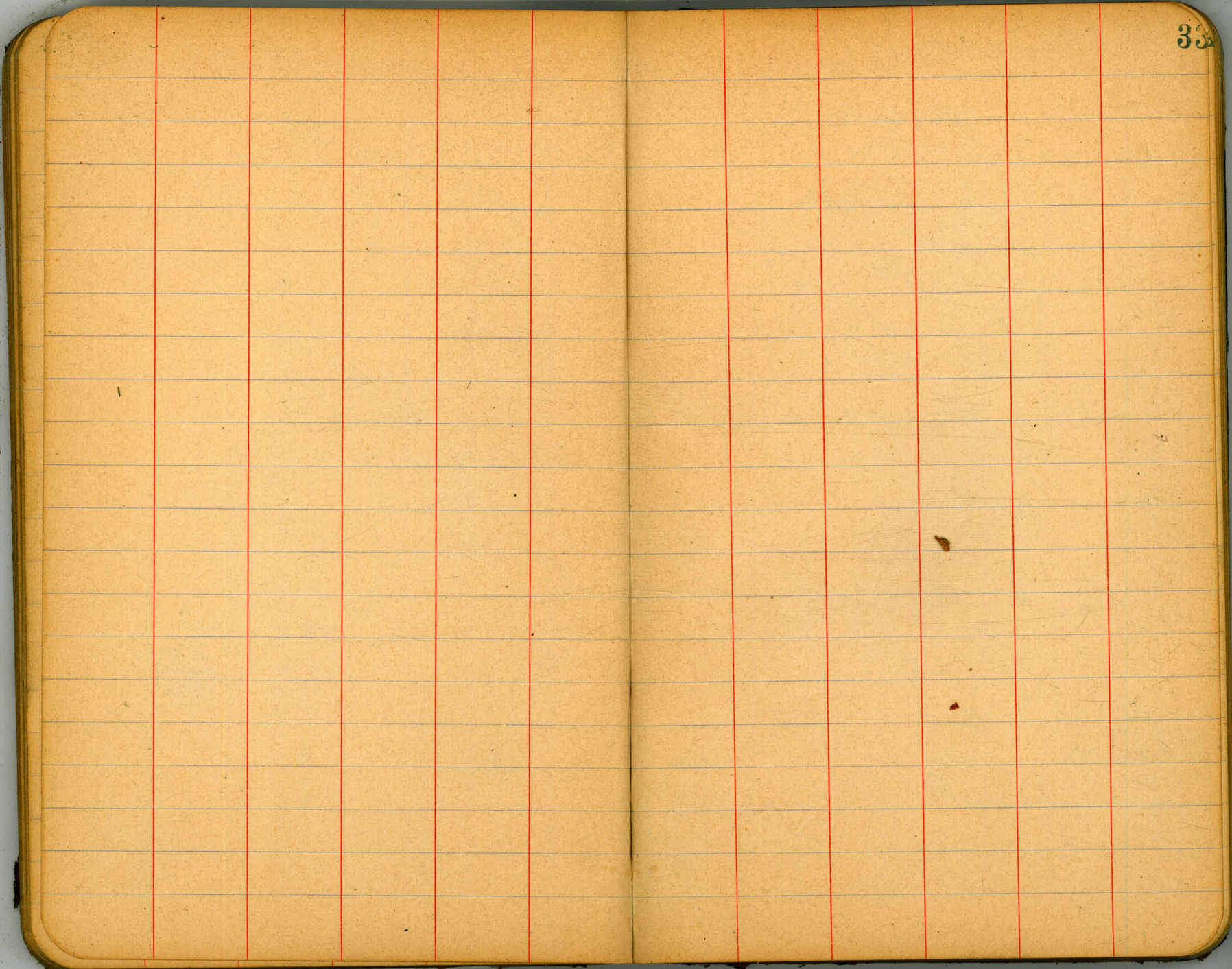
W	4.6	4.1
C	4.7	4.0

	872		
E		4.6	4.1
	130.80 S = P.C.C.		
E		4.5	4.2
C		4.6	4.1
W		4.7	4.0
	2+00		
W		4.7	4.0
C		4.7	4.0
E		4.7	4.0
	3+00		
E		5.2	3.5
C		5.0	3.7
W		4.7	4.0
	3+31.25 = 2 ox Sprockles Track		
on track		4.54	4.18
	4+00		
W		5.0	3.7
C		5.4	3.3
E		5.6	3.1

		5+11.62 = E.C.	
E		5.0	3.7
C		4.5	4.2
W		4.4	4.3
	6+00		
W		5.3	3.4
C		5.4	3.3
E		5.7	3.0
	7+00		
E		6.5	2.2
C		6.9	1.8
W		5.8	2.9
TP	3.69	(7.30)	3.61
		8+00	
W		4.7	2.6
C		4.6	2.7
E		4.4	2.9
	8+35.77 = P.C.		
E		4.3	3.0
C		4.3	3.0

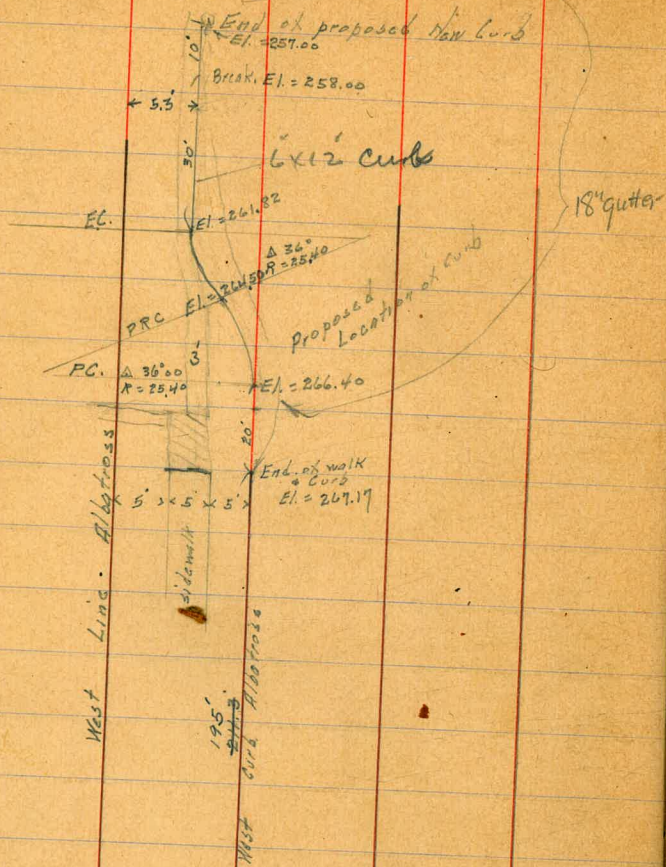
W	7 th	4.6	2.7	
	9+00			
W		4.1	3.2	
C		4.3	3.0	
E		4.5	2.8	
9+40.57 = EC = W.L. Atlantic				
E		4.4	2.9	on paving
C		4.3	3.0	✓ ✓
W		4.3	2.0	✓ ✓
		4.25		BPSE Atlantic





11/15/22

Proposed Relocation of sidewalk & curb
Albatross St
N. of Robinson



2670.6
+ 15.2
2685.8

1.41
267.17 on End of Curb.

2.16
26.42 PC.

2.97
45.61

4.05
24.53 PRC.

5.44
25.14

34

6.76
61.82 EC.

10.58
59.00 break

11.58
57.00 End

3.83 9.99 616 Feb all with
Moore Ellis Snow

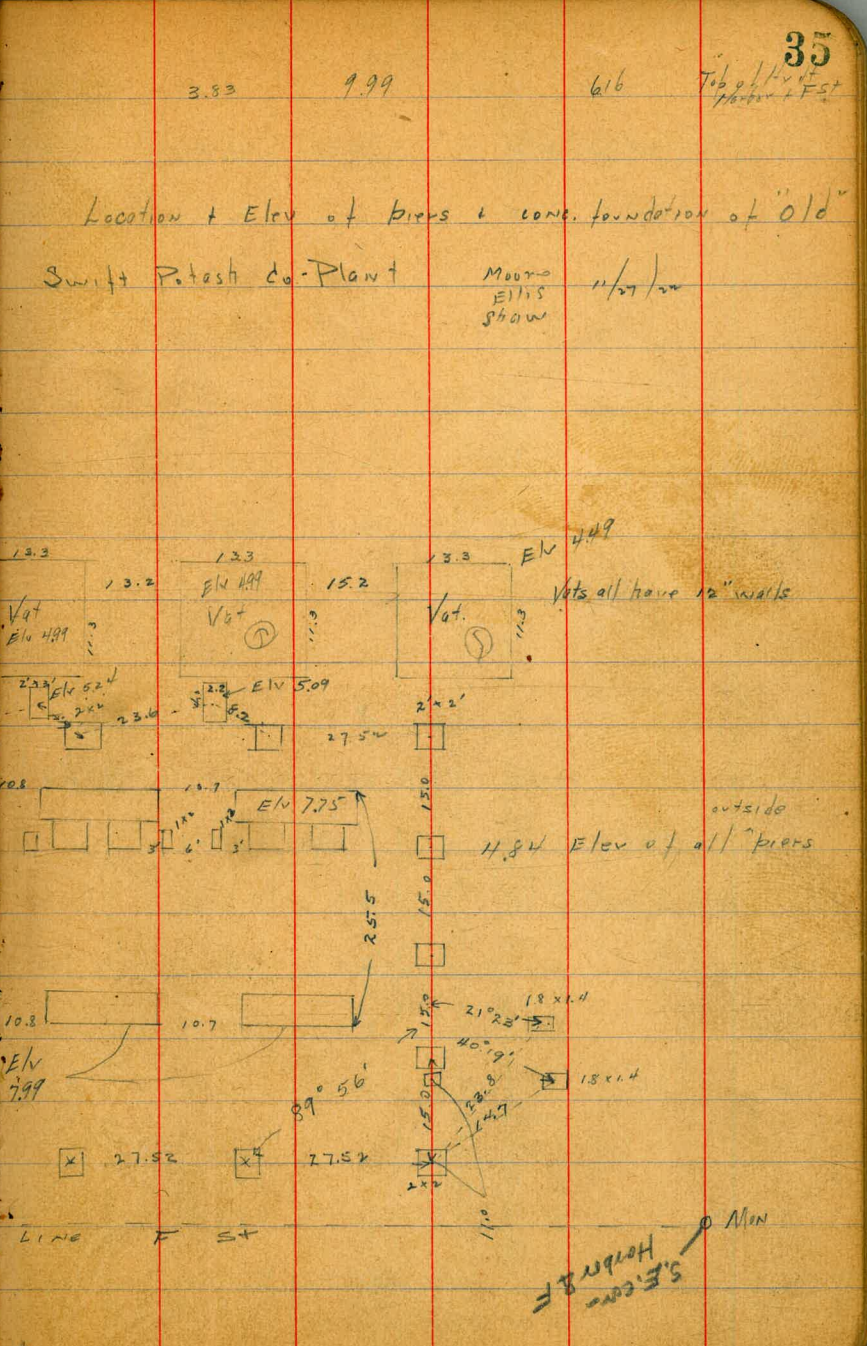
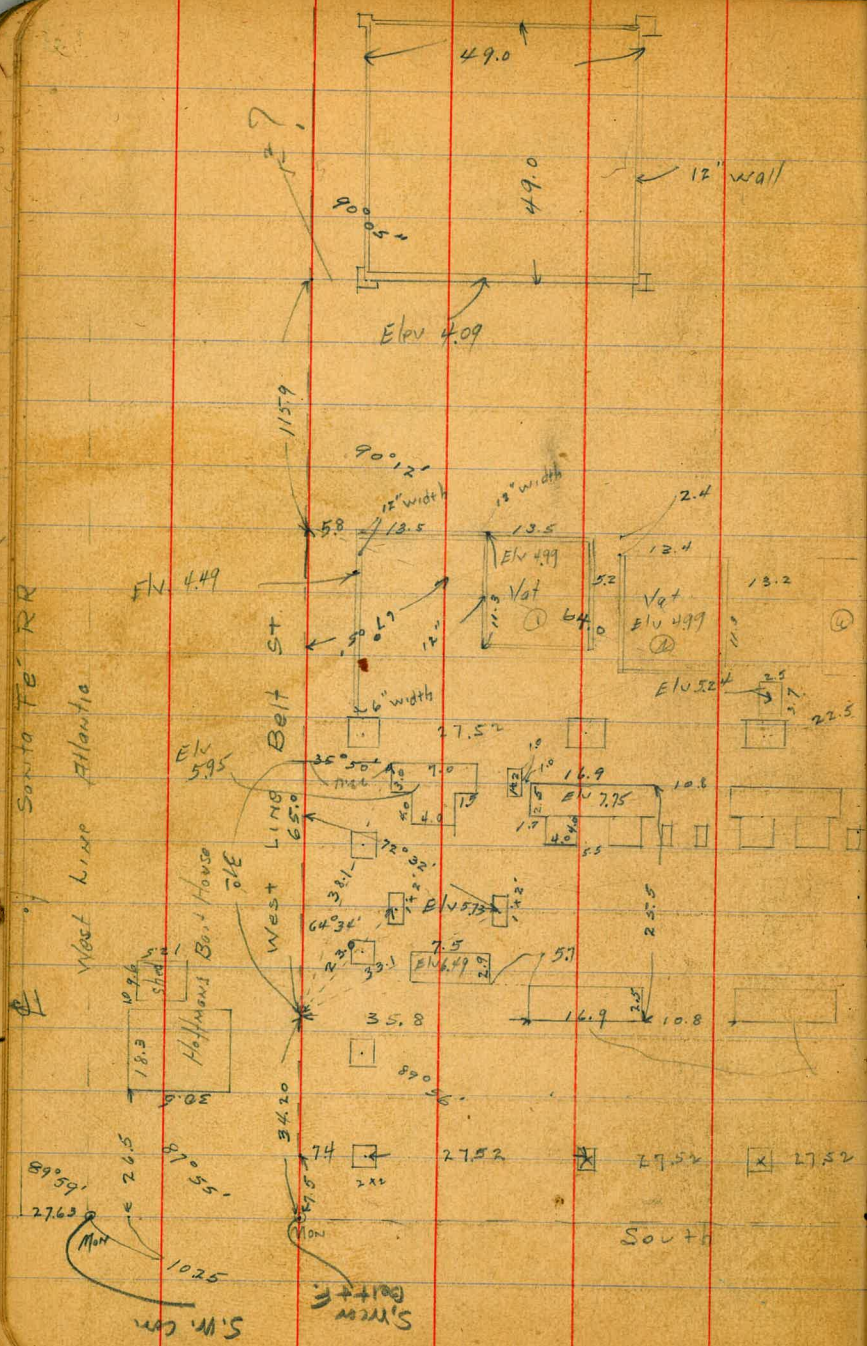
Location + Elev of bins + conc. foundation of 'old'
Swift Potash Co. Plant

Moore
Ellis
Snow

Vats all have 12" walls

outside
11.84 Elev of all piers

S.E. corner
Hornby B.F.



12/1/22

Gregory Moore

Levels on a line 25' E + Parallel to E.L. of Witherby from N.L. of Sunset Blvd
 12.02 273.04 261.02 B.P. NE Sunset + Witherby

0+00 = N.L. Sunset Blvd	10.4	262.6
+50	10.0	263.0
1	10.4	262.6
+50	11.8	261.2
2	11.7	261.3
+50	12.4	260.6
3	12.0	261.0
+50	10.6	262.4
4	10.1	262.9
+50	9.5	263.5

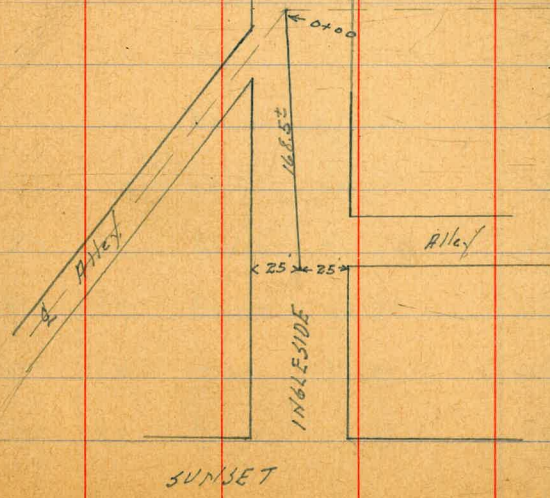
Levels 70' E. of + parallel to the E.L.

of Witherby from N.L. Sunset Blvd.

0+00 = N.L. Sunset Blvd.	6.6	266.4
+50	6.5	266.5
1	5.6	267.4
+50	8.1	264.9
2	6.7	266.3
+50	6.4	266.6
3	5.4	267.6
+50	4.5	268.5
4	3.9	269.1

Levels on Ingle side from S. of Alley (West of Ingle side) produced

0+00	0.10	282.00	282.90	N.E. Sunset + Ingle side
+50	11.3	271.7		
1	8.5	274.5		
+50	6.6	276.4		
2	5.3	277.7		
+50	4.8	278.2		



12/1/22
Gregory
Merritt
Billie
Shaw

Stadia Levels on
Block 3 of F St between
Harbor & Atlantic Sts

H.I. Rod Elev. Stadia dis. Azimuth

#	H.I.	Rod	Elev.	Stadia dis.	Azimuth
	280	8.96			
1		4.9	4.1	224.0	296° 25'
2		5.3	3.7	220.0	297° 20'
3		4.7	4.3	208.0	298° 14'
4		4.3	4.7	196.0	300° 32'
5		5.3	3.7	178.0	303° 20'
6		4.3	4.7	160.0	305° 04'
7		3.8	5.2	100.0	349° 43'
8		2.8	6.2	111.0	28° 36'
9		3.0	6.0	136.0	42° 16'
10		3.3	5.7	172.0	54° 54'
11		5.3	3.7	250.0	67° 03'
12		4.8	4.2	296.0	70° 54'
13		6.3	2.7	316.0	71° 44'
14		6.2	2.8	308.0	73° 57'
15		6.3	2.7	279.0	72° 03'
16		5.7	3.3	259.0	78° 50'
17		6.4	2.6	276.0	84° 50'
18		5.7	3.3	257.0	91° 56'

Az from N. Pt.

37

No.	Pod.	Elev	Stadia Dis	Azimuth	
	8.96	6.0	3.0	226 ✓	107° 13'
	5.5	3.5	192		130° 39'
	5.6	3.4	181		146° 59'
	6.0	3.0	180		164° 46'
	6.0	3.0	186		180° 18'
	5.2	3.8	92		180°
	3.0	6.0	91		166° 51'
	1.6	7.4	123		144° 45'
	1.3	7.7	106		136°
	3.0	6.0	89		136°
	1.2	7.8	85		147° 30'
	4.2	4.8	80		150° 19'
	0.9	8.1	77		154° 55'
	4.4	4.6	40		132° 12'

296

38

	Pod	Elev.	Stadia dis	β_3 with	No.	Pod	Stadia Dis.	Azimuth	
33	38	5.2	50'	106°41'	53	4.0	5.0	85'	20°48'
34	34	5.6	92'	112°03'	54	2.1	6.9	42'	45°39'
35	44	4.6	147'	136°32'	55	2.9	6.1	43'	56°54'
36	5.5	3.5	163	105°21'	56	2.5	6.5	32'	51°20'
37	5.6	3.4	203	94°51'	57	2.0	7.0	44'	74°27'
38	4.7	4.3	222'	84°43'	58	2.0	7.0	58'	63°48'
39	5.3	3.7	219'	73°53'	59	4.8	6.2	73'	50°23'
40	4.0	5.0	183'	59°36'	60	4.5	4.5	82'	80°36'
41	2.1	6.9	164'	67°32'	61	4.6	4.4	112	76°31'
42	3.0	6.0	170	76°28'	62	2.9	6.1	106'	63°50'
43	2.0	7.0	172	86°37'	63	1.8	7.2	102	46°07'
44	3.4	5.6	158	89°49'	64	4.0	5.0	110	34°48'
45	2.1	6.9	150'	91°07'	65	2.0	7.0	112	41°56'
46	5.3	3.7	133'	94°17'	66	3.6	5.5	127	53°06'
47	4.9	4.1	128'	82°34'	67	4.7	4.3	126	81°03'
48	4.5	4.5	80'	82°34'	68	3.2	5.8	175'	76°12'
49	3.0	6.0	55'	91°28'	69	3.3	5.7	191	81°20'
50	4.6	4.4	24'	91°28'	70	2.3	6.7	174	70°44'
51	4.6	4.4	22'	20°07'	71	2.4	6.6	159	65°30'
52	3.8	5.2	55'	7°43'	72	4.0	5.0	156'	62°02'

	Pod.	Elev.	Stadia Dis.	Azimuth
73	3.5	5.5	149	56°36'
74	3.0	6.0	135'	42°45'
75	5.0	4.0	00'	at Transit
76	5.4	3.6	68'	350°17'
77	5.3	3.7	77'	332°13'
78	5.3	3.7	111	308°13'
79	5.6	3.2	135'	299°24'
80	5.0	4.0	156	294°35'
81	4.4	4.6	207	287°00'
82	4.6	4.4	202	283°21'
83	5.5	3.5	142	290°41'
84	5.4	3.6	103	299°00'
85	5.6	3.4	75	311°44'
86	5.7	3.3	48'	336°45'
87	4.6	4.4	22	360°00'
88	5.3	3.7	36	303°10'
89	5.2	3.8	62'	289°52'
90	5.5	3.5	87'	284°46'
91	4.4	4.6	153	277°53'
92	5.3	3.7	185	276°57'

Pod.	Elev.	Stadia Dis	Azimuth
4.7	4.3	197'	296°15'
4.8	4.2	195'	263°33'
5.2	3.8	175'	261°04'
4.8	4.2	163'	268°38'
3.5	5.5	155'	261°03'
4.8	4.2	184'	250°53'
4.8	4.2	188	241°45'
4.8	4.2	189	229°08'
6.0	3.0	193'	220°45'
4.5	4.5	167'	217°30'
4.2	4.8	145'	213°33'
3.6	5.4	140'	225°13'
4.4	4.6	145'	235°49'
3.7	5.3	144'	244°48'
3.7	5.3	137'	257°27'
4.6	4.4	133'	251°24'
4.5	4.5	131'	240°08'
5.6	3.4	127'	225°23'
6.6	2.4	128	205°42'
5.7	3.3	104'	207°32'

Rod	Elev.	Stadia dis.	Azimuth
5.0	4.0	103'	224°30'
4.0	5.0	105'	232°24'
4.3	6.7	106'	238°15'
2.9	6.1	102'	243°17'
4.0	5.0	112'	247°45'
3.4	5.6	114'	242°53'
3.8	5.2	124'	255°57'
4.8	4.2	123'	260°45'
3.6	5.4	123'	263°53'
5.1	3.9	123'	267°45'
4.8	4.2	102'	260°23'
4.7	4.3	86'	245°47'
5.0	4.0	59'	262°27'
5.2	3.8	62'	264°28'
5.2	3.8	28'	241°23'
5.7	3.3	58'	198°23'
3.9	5.1	74'	213°28'
5.8	3.2	96'	202°12'
5.5	3.5	97'	212°52'
5.0	4.0	86'	225°55'

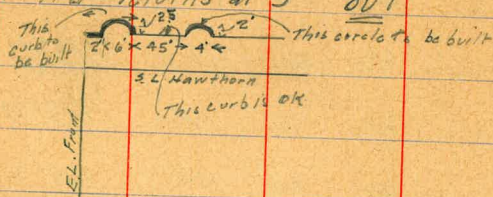
Rod	Elev.	Stadia Dis.	Azimuth
5.8	3.2	157'	207°37'
6.6	2.4	194'	202°30'
6.5	2.6	175'	198°37'
6.0	3.0	188'	182°49'
6.1	2.9	165'	182°29'
6.0	3.0	184'	169°35'
5.7	3.3	129'	176°09'
6.1	2.9	115'	182°59'

N. Floor Found

22/8/22 Gregory Hawthorn St Curbs

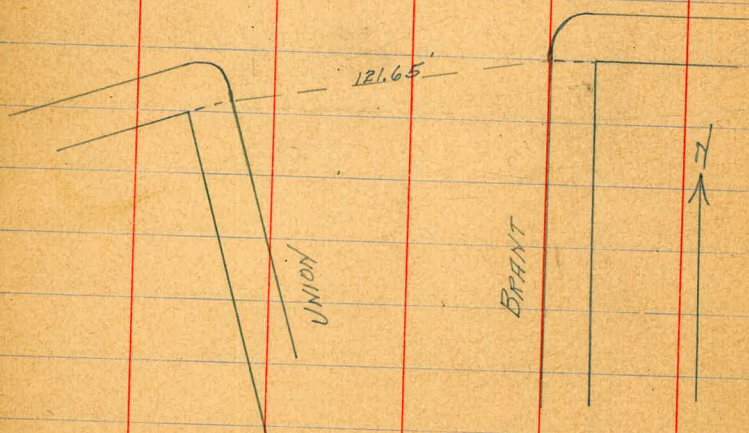
5' gutter on N. Side 3rd to 4th 4" thick

N.E. & N.W. returns at 3rd out



Curb to be replaced on S. Side from
54.4' E. of State St to 98.4' E. of State

Curb to be replaced on S. Side from
82' W of State St to 92' W. of State
Hawthorn St.



12/12/22 Gregory Measure Ellis St NW

CROSS SECTION OF
HAWTHORN ST
between 2nd & 3rd
To show conditions of
sidewalk curbs etc

80' 5"
14' cbs
13' 1/2"

41

E.L. 2nd

0.51 172.45

171.94

BP NE 2nd
& Hawthorn

N

0.20

172.25

on sidewalk

cb

0.58

171.87

curb

gutr.

1.6

170.9

1/2

2.0

170.5

C

3.0

169.5

1/2

4.0

168.5

gutr.

4.9

167.6

cb

4.03

168.42

on curb

S

3.41

169.04

on sidewalk

35' E

S

6.1

166.24

+ 1/2

5.7

166.8

on sidewalk

cb

6.10

166.35

on curb

gutter

7.0

165.5

1/2

5.5

167.0

C

4.6

167.9

1/2

4.3

168.2

gutter

172.45

4.6

167.9

cb

3.56

168.89

on curb

+10

3.35

169.10

✓ sidewalk

N

2.9

169.6

50' E

N

6.3

166.2

+4

6.33

166.12

on sidewalk

cb

6.48

165.97

on curb

gutter

7.6

164.9

1/2

6.6

165.9

C

6.5

166.0

1/4

7.5

165.0

gutter

9.3

163.2

cb

8.20

164.25

on curb

+10

8.0

164.45

✓ sidewalk

S

9.6

162.9

75' E

S

10.5

162.0

+4

9.97

162.48

on sidewalk

cb

10.05

162.40

on curb

172.45

42

gutter

10.4

162.2

1/2

8.7

163.8

C

7.9

164.6

1/2

7.9

164.6

cb

9.41

163.04

on curb

+10

(9.22)

163.23

on sidewalk

+10

8.6

163.9

dirt on

N

8.6

163.9

89' E = center of 8" pipe under walk

S.cb.

11.96

160.49

= Flow Line of pipe

100' E

N

8.4

164.1

+4

9.3

163.2

on sidewalk

cb

9.6

162.9

1/2

8.4

164.1

C

8.2

164.3

1/4

9.2

163.3

gutter

10.63

161.82

cement

cb

10.19

162.26

on curb

+10

10.03

162.42

on sidewalk

S

10.2

162.2

sidewalk gone on N. side from 112' E to 132' E

	172.45								
	120.4' E								
N gutter	10.27	161.18	on grate filled up		gutter cement	8.17	164.28		
					cb	7.47	164.98	on curb	
	127.5' E				+10	7.47	164.98	on sidewalk	
3+4	9.03	163.42	on sidewalk						
cb	9.57	162.88			175' E				
on grate	9.82	162.53	Filled up	3+10	4.58	162.87			
1/4	8.6	163.9		cb	4.88	162.57	on curb		
c	7.8	164.7		gutter cement	5.55	166.90			
1/4	8.2	164.3		cb	4.57	167.88	on curb		
cb	9.78	162.70	on curb	+19 N	4.42	162.03	on sidewalk		
N	8.4	164.1		N. cb	5.6	166.9			
	150' E				174.5	2.63	169.82	on curb	
N	8.4	164.1			200' E				
+4	6.91	165.54	on sidewalk	5	1.56	170.90	on sidewalk		
+9.33	7.10	165.35		+4	1.57	170.88			
cb	7.33	165.12	on curb	cb	1.70	170.75	on curb		
gutter	7.7	164.8		gutter cement	2.58	169.87			
1/4	6.8	165.7		1/4	2.5	170.0			
c	6.4	166.1		c	2.0	170.5			
1/4	7.2	165.3		1/4	2.1	170.4			
				gutter	2.1	170.4			
				cb	1.75	170.70	on curb		
				+10	1.30	171.15	on sidewalk		
				N	1.30	171.15			

OVER

Curb to be replaced from 58' to 75.5' E of 5th on

North Side.

Curb & walk all eaten S side 5th to 6th.

Curb extends from E.L. 5th to 169.2' E of 5th
but paving should stop at 163' E. of 5th.

CROSS SECTION OF
ALLEY
Between Front + 1st
South of Robinson

plotted 12-21-22
C.E.

48

706

277.03

269.97

BPNE Front
+ Robinson

3 W. of W.L. = garage cement floor

7.53

69.5

3 L. Robinson

143' 5

W on curb

4.50

72.5

-2 = garage cement floor

8.18

68.8

W on paving

4.69

72.3

W = cement apron

8.05

69.0

C - ✓

4.70

72.3

C

7.9

69.1

E - ✓

4.43

72.6

E

7.2

69.8

E on curb

4.18

72.8

TP

3.45

272.73

77.5

269.28

10' 5

200' 5

E

5.3

71.7

E

3.1

69.6

C

5.7

71.3

C

3.9

68.8

W

5.4

71.6

W

3.9

68.8

50' 5

207' 5

W

6.3

70.7

E = edge cement apron

3.70

69.0

garage 5' E

C

6.9

70.1

244' 5

E = edge cement apron

3.86

68.8

garage 5' E

E

6.8

70.2

250' 5

100' 5

E

7.1

69.9

W

4.80

67.9

C

7.1

69.9

C

4.3

68.4

W

7.2

69.8

E

4.0

68.7

272.73

300' S

E 4.9 67.8

C 5.4 67.3

W 6.2 66.5

350' S

W 6.9 65.8

+3 5.7 67.0

C 5.8 66.9

E 5.6 67.1

370' S

E 6.0 66.7

C 6.0 66.7

+4.5 5.7 67.0

W 7.5 65.2

382' S

E = edge cement apron 5.51 67.2 garage 7'E

400' S

W 7.0 65.7

C 6.0 66.7

E 5.5 67.2

49

441' S

E = edge cement apron 6.30 66.4 garage 6'E

450' S

E 6.7 66.0

C 7.0 65.7

W 7.2 65.5

465' S

W 8.0 64.7

C 8.0 64.7

E 7.7 65.0

500' S

E 9.0 63.7

C 9.2 63.5

W 9.3 63.4

530' S

E = garage wood floor 8.28 64.4

550' S

W 10.2 62.5

C 10.1 62.6

E 9.6 63.1

272.73

T.P.	399	266.89	9.81	262.92
------	-----	--------	------	--------

601[±] = N.L. Pennsylvania

E			4.0	62.9
---	--	--	-----	------

C	on Manhole		4.27	62.6
---	------------	--	------	------

W			4.7	62.2
---	--	--	-----	------

N. Curb Line Pennsylv.

W	on cement curb		4.86	62.0
---	----------------	--	------	------

E	✓	✓	4.00	62.9
---	---	---	------	------

Curb is in only on W side from Curb
 Line to edge of walk = 5.25' rest is all out.

12/15/22

Gregory
Moore

ASH ST PAVING

52

Curb + walk out on both sides from India to Kettner
excepting east 100' on S. Side

Curb to be replaced on N side from Wt. State
to 73 W. + from 22.8 W to 40.2 W ⁴¹⁶ from 46.6 to 55 W
⁷¹⁶ from 68.8 W to 78.6 W

Curb + walk to be replaced on S Side from Wt.
State to 175' West.

Outlet N.W. Front + Ash 2.5 x 6 should have
grate.

Curb out on N Side from Wt 3rd St
to 100' West.

+60	1.80	331.85	327.24	+4.63
9 +10	1.23	332.42	327.52	+4.90
+20 DE.	1.20	332.46	327.58	+4.87

3/19/33

Oregon

CROSS SECTION OF
BEECH ST
from W.L. California to E.L. Mantle80' wide
14' cbs

	11.75	34.72	11.85	22.97	BP 4540 India	N		2.5	12.0
	0.75	23.62		22.87		+12		2.5	12.0
NW Ct Kottner			3.5			cb		3.4	11.5
SW Ct "			4.4			+2		4.9	10.0
NE Ct Calif			9.2			+11		2.0	12.9
SE Ct "			10.0			1/2		2.4	12.5
	2.54	14.93	11.23	12.39		C		2.8	12.1
		N.L. California		(14.9)		1/2		1.9	13.0
S			5.8	9.1		+7		3.1	11.8
+1			3.2	11.7		+11		5.6	9.3
cb			3.0	11.9		cb		5.6	9.3
1/2			2.4	12.5		+4		3.7	11.2
C			2.5	12.4		+13		3.7	11.2
1/2			2.3	12.6		S		6.1	8.8
+3			2.2	12.7					
+11			4.7	10.2		S		6.3	8.6
+12			4.7	10.2		+1.5		6.2	8.7
cb			3.4	11.5		+1.8		4.1	10.8
+3			2.4	12.5		+10.5		4.2	10.7
N			2.3	12.6					

5' W

(14.9)

55

25' W

1493

14.9

+12	6.0	8.9
cb	6.0	8.9
+3	4.3	10.6
+7	2.1	12.8
1/4	3.2	11.7
c	3.7	11.2
1/4	3.3	11.6
+5	4.7	10.2
+9	4.8	10.1
cb	3.3	11.6
N	3.2	11.7
	45°W	
N	3.9	11.0
+6	4.6	10.3
cb	4.1	10.8
+8	5.9	9.0
1/4	4.8	10.1
c	5.0	9.9
1/4	4.7	10.2
+10	5.0	9.9

BEECH

56

14.9
8.2

cb	6.6	8.2
+4	4.6	10.3
+12	4.7	10.2
+12.3	6.3	8.6
5	6.3	8.6
	70°W	
5	6.9	8.0
cb	7.0	7.9
1/4	6.6	8.3
c	6.3	8.6
+9	6.1	8.8
1/4	6.7	8.2
cb	7.7	7.2
N	6.3	8.6
	100°W	
N	6.8	8.1
+1.5	8.0	6.9
cb	8.1	6.8
1/4	7.6	7.3
c	7.7	7.2

14.93

(14.9)

BEECH

57

1/4	7.8	7.1
cb	8.0	6.9
S	7.9	7.0
135°W		
S	8.5	6.4
cb	8.7	6.2
1/4	8.5	6.4
c	8.8	6.1
1/4	8.8	6.1
cb	8.8	6.1
+13	8.7	6.2
N	7.8	7.1
150°W		
N	8.1	6.8
+1	9.2	5.7
cb	9.2	5.7
1/4	8.8	6.1
c	9.2	5.7
1/4	9.0	5.9
cb	9.7	5.7

S

9.7

(14.9)

5.2

280°W - E.L. Atlantic

S

10.2

4.7

cb

10.2

4.7

1/4

10.0

4.9

c

9.9

5.0

1/4

9.8

5.1

cb

9.9

5.0

N

9.7

5.2

5/19/23

Gregor Moore Miller

CROSS SECTION OF
HSH ST
from W.L. California to
E.L. Atlantic

477
1055
401
1071

T.P. on
rail page 55

403
85
114
125

(15.3)

57 1/2

2.93

15.32

2

12.39

W.L. California

(15.3)

S

5.5

9.8 ✓

65' W

+10

4.8

10.5

S

7.9

7.4 ✓

cb

6.8

8.5

+9

7.3

8.0

+2

6.8

8.5

+11

7.9

7.4

+4

4.7

10.6

cb

7.9

7.4

1/2

5.4

9.9

1/4

7.7

7.6

+8

5.5

9.8

c

7.6

7.7

c

5.1

10.2

1/4

7.6

7.7

1/4

5.1

10.2

cb

7.2

8.1

cb

5.2

10.1

N

6.7

8.6

N

4.6

10.7

85' W

40' W

N

6.7

8.6

N

5.8

9.5

cb

7.5

7.8

cb

6.8

8.5

1/4

8.0

7.3

1/4

6.8

8.5

c

8.0

7.3

c

6.8

8.5

1/4

8.0

7.8

1/4

7.0

8.3

cb

8.1

7.2 ✓

15.32

(15.3)

+5	7.5	7.8
S	8.5	6.8

115°W

S	8.9	6.4
+5	8.4	6.9
cb	8.6	6.7
1/4	8.3	7.0
c	8.3	7.0
1/4	8.6	6.7
cb	9.1	6.7
N	9.4	5.9

145°W

N	10.1	5.2
cb	10.0	5.7
1/4	9.6	5.7
c	9.8	6.0
1/4	9.0	6.3
cb	9.2	6.1
S	9.3	6.1

185°W

A34

(15.3)

58

S	9.5	5.8
cb.	9.7	5.6
1/4	9.4	5.9
c	10.3	5.0
1/4	10.1	5.2
cb	10.4	4.9
N	10.4	4.9

200°W = E.L. Atlantic

N	11.0	4.3
cb	11.1	4.2
1/4	10.3	5.0
c	10.4	4.9
1/4	10.3	5.0
cb	10.1	5.2
S	9.9	5.4
	1.30	1402

Sewer Levels in Aloha Court on a line 75' W. of and parallel
to the W. line of Witherby St from apt. 50' N of Whitman to Chestnut
Mills.

					246.1		10.6	229.5
B.M.	1.65	262.67		261.02	N.E. Witherby + Sunset Blvd	246.5	6.7	233.4
T.P.	2.61	252.35	18.93	249.74	+ 6.7 @ Chestnut		11.7	228.4
00-50' W of Whitman			2.9	249.5	+ 7.5		6.8	233.3
50' W of 000			6.0	246.3				
0150			2.4	250.0				
50' W of 0150			5.7	246.6				
0175			2.7	249.6				
1+00			3.8	248.5				
1+25			4.9	247.4				
30' W of 1+25			5.6	246.7				
1+50			4.4	247.9				
1+75			5.4	246.9				
30' W of 1+75			6.6	245.7				
2+00			5.7	246.6				
2+25			8.1	244.2				
30' W of 2+25			9.7	242.6				
2+35			7.3	245.0				
S. line Chestnut					on loose fill			
2+50			10.0	242.3	ground about 5' lower			
T.P.	0.60	240.10	12.85	239.50				

See 15-48 B

0+40 contd

438
62.5454
50460
37.5
Frog

0+40 of Ash

9.93

650
506.12
37.5
Frog584
30526
20479
10471
4.6
WR473
ER467
10.4
WR470
15.2
ER470
24.4
WR465
20.9
spur464
21
ER463
31.6
spur

0+27

457
62.5466
50465
37.5
Frog

0+27

678
50630
37.5551
30542
20485
10478
4.6
WR481
ER478
10.4
WR471
15.2
ER476
24.4
WR472
20.9
spur472
21
ER468
30.8
spur

0+15

7.74
38.2

9

64.3
38.2

headwall

441
83.6

headwall

5.55
83.7

0+69 RR Signal 45 ft

0+66

0+66 curb line

0+53 cont

0+53

16.43

10.06	9.18	10.57	10.78	11.31	11.76	11.85	11.85	11.84	11.86	11.85	11.83	11.91
6.37	7.25	5.86	5.65	5.12	4.67	4.58	4.58	4.59	4.57	4.58	4.60	4.52
51 cb	51.0	37.5	30	20	10	46	ER	WR	ER	WR	prop	spur
	flow line cb outlet a gutter	Topcb above										

12.37	11.35	12.21	12.16	12.05	11.93
406	500	422	427	438	450
26	734	672	625	50	37.5
	gutter cb	flow line a par	inlet	Spring	

4.41	4.45	4.52	4.59
62.5	50	37.5	32.7
		Prop	spur

6.60	6.08	5.73	5.21	4.70	4.65	4.64	4.64	4.65	4.64	4.60	4.62
50	37.5	30	20	10	46	ER	WR	ER	WR	spur	ER

16.43

12.19
4.24
15.0
on 2.5 x 2.5
base

			2.76	22.98	22.97	BM Ash India
T.P.	10.82	25.74	1.51	14.92		

0+81 showing top of Ties only

5.00	5.00	5.03	5.00
8.3	12.7	36.6	33.2

0+80 cont

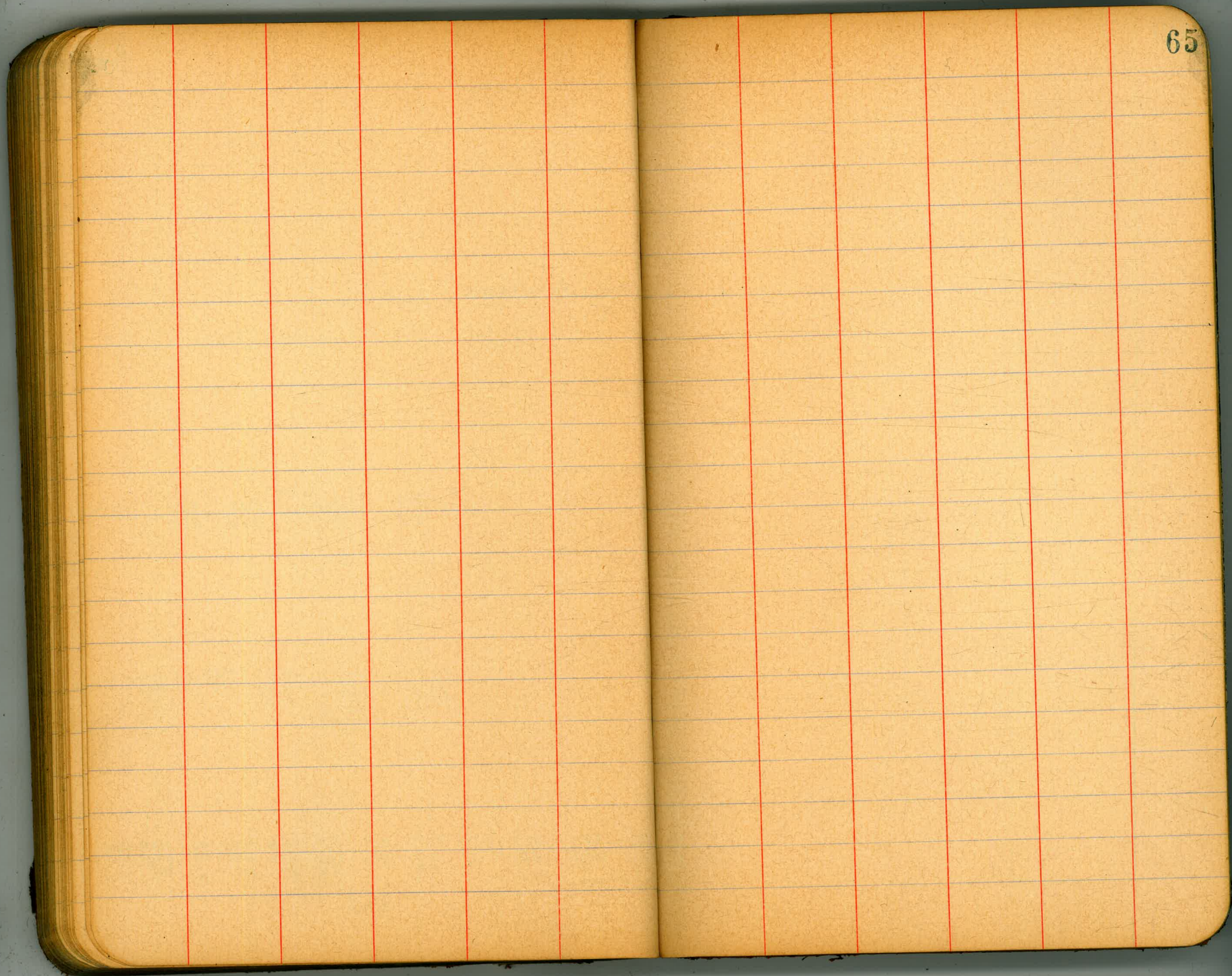
4.07	5.20	4.11	4.34	4.46
62.5	6.07	60.7	56	37.5
CBL Por	Flow	Por		
	current			
	inlet			

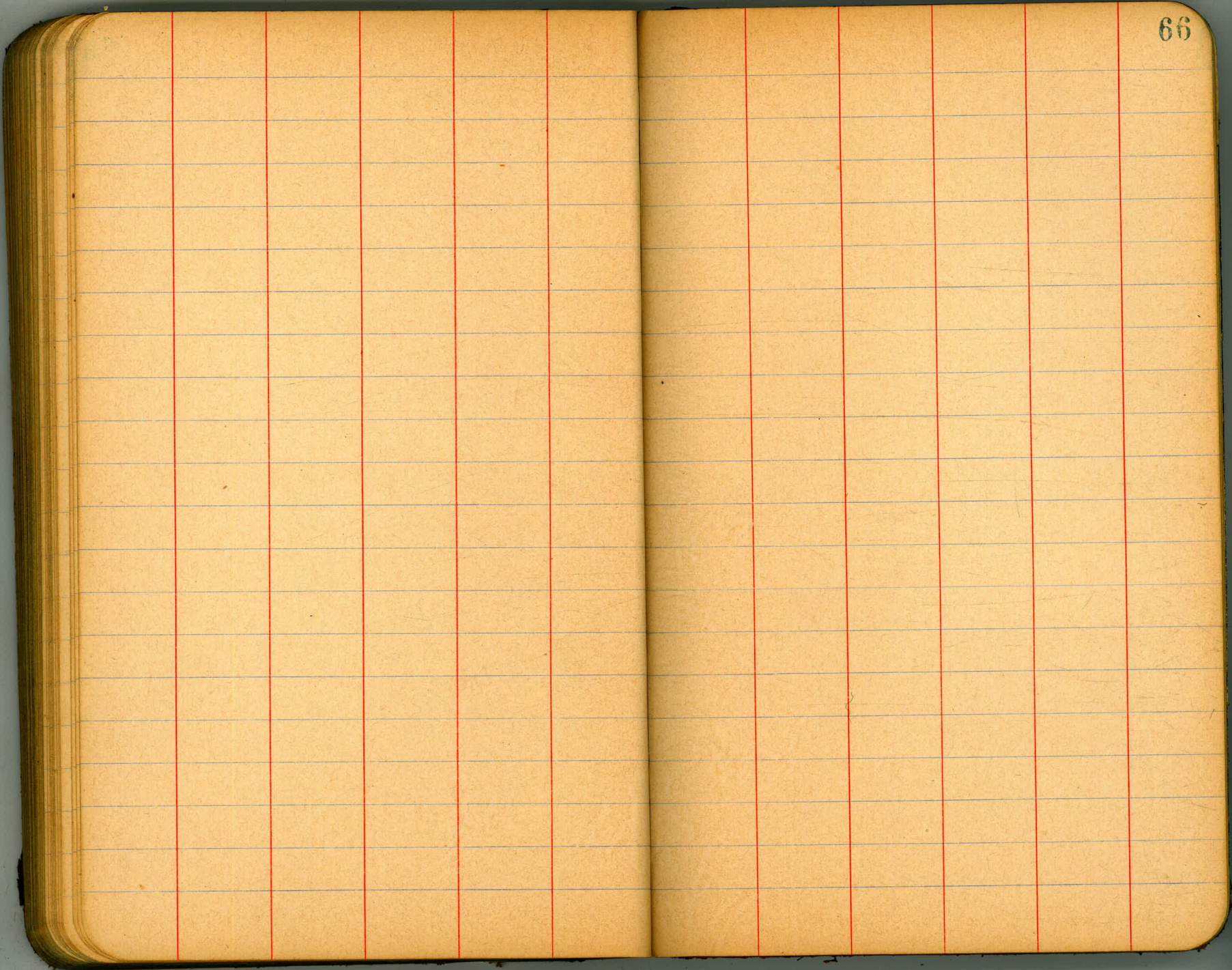
0+80 Nline Ash

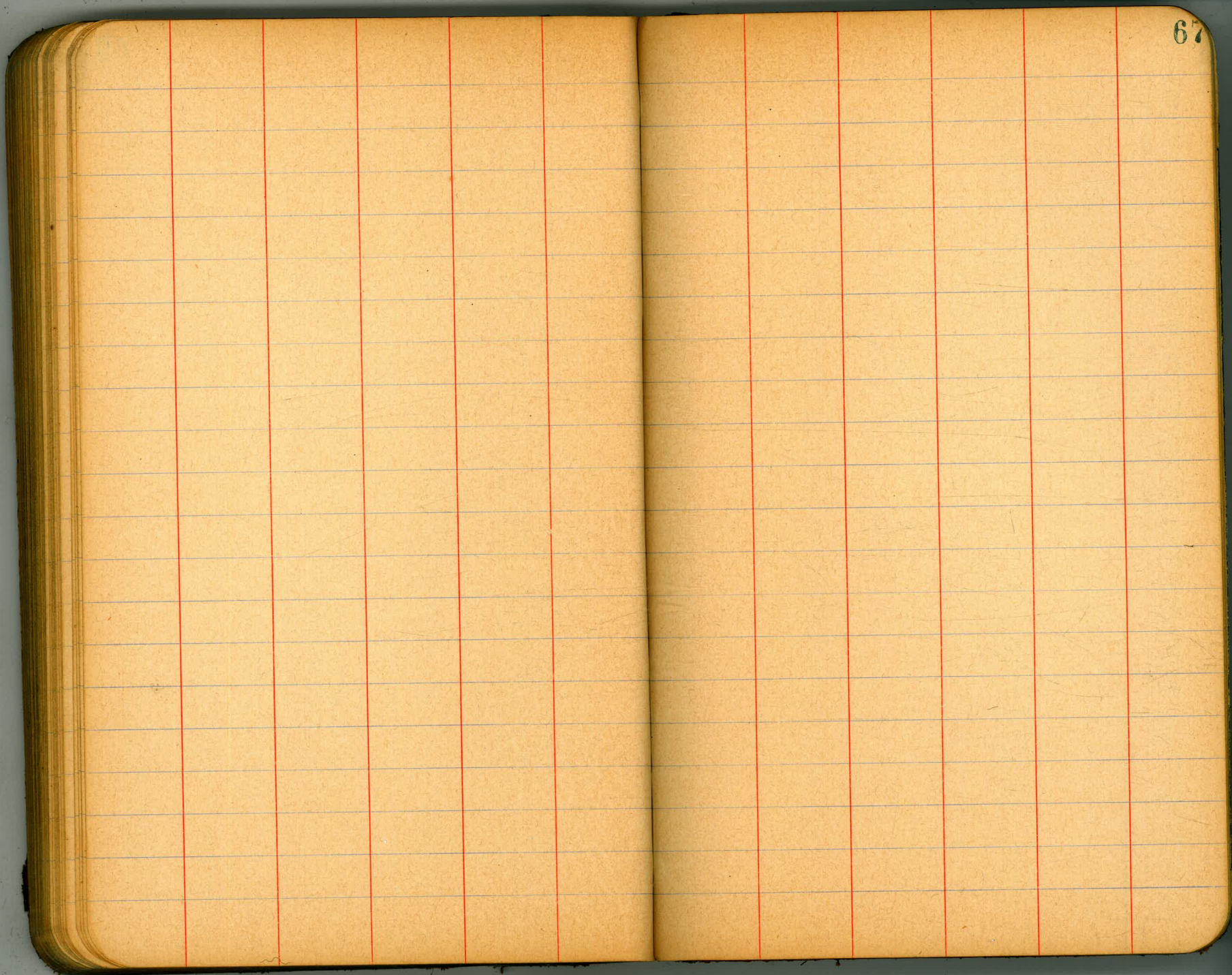
16.43

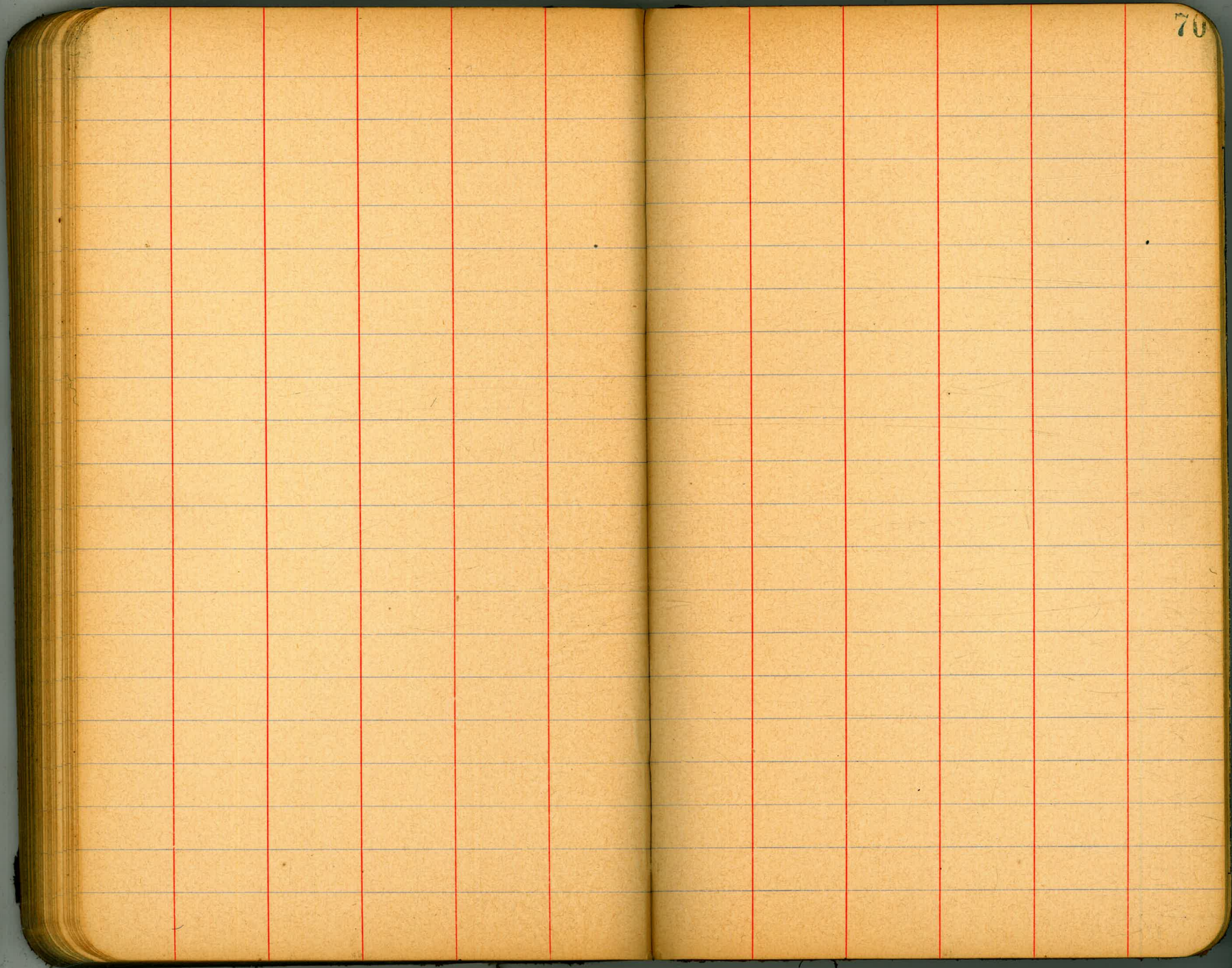
5.80	7.30	5.82	5.00	4.58	4.54	4.51	4.51	4.52	4.49	4.50	4.47	4.46
37.5	35.7	35.7	20	10	4.6	ER	10.4	15.2	24.4	29	30.6	35.3
CB	Flowline	Por			WR	WR	WR	ER	WR	ER	3wr	1por
CB Por	inlet											

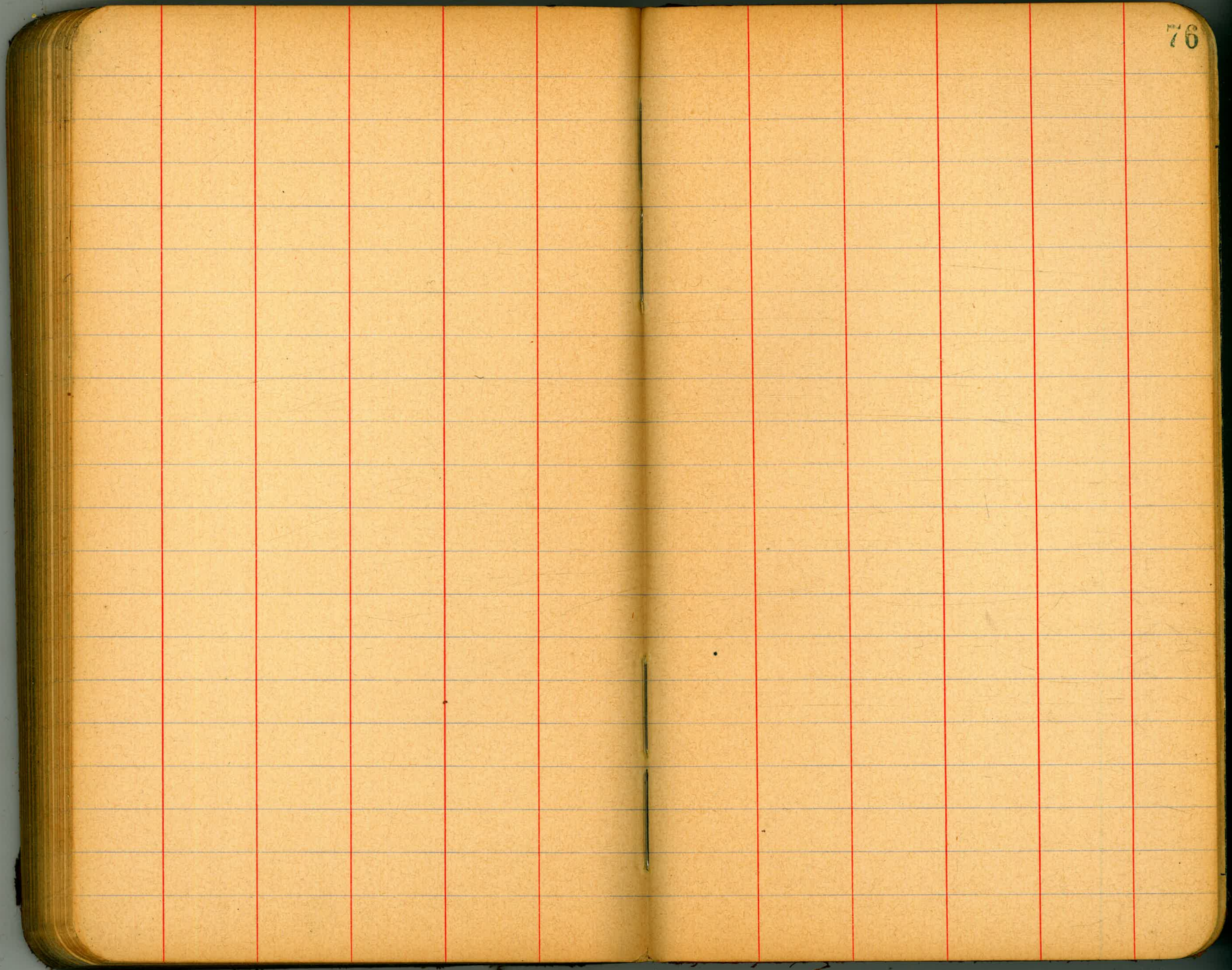
16.43











Final Estimate Alley B/K 29 Higgins

16⁰⁰ N. side 200 to 296 E of EL N+S Alley

35⁰⁰ S ✓ from EL N+S Alley to 50' E

7.5⁰⁰ W side N+S Alley 142 to 149 N of B St.

58.5⁰⁰



73

784.90
 115.
 284.05
 12.05
 271.97
 107
 273.04

7.54 | 1.15.0 | 1.157
 754
 3960
 3770
 1900

7.95 | 1230 | 154
 795
 4350
 3975
 3750

49.80

254

612 24
 12 588 34
 45
 118
 108
 103
 96
 79

15643 } 397500
 3975
 31886
 84640
 78215
 62572
 6780
 796
 3975

150 43
 795
 78215
 140187
 62572
 124361
 21

48769
 3975
 493846
 691383
 888921
 276307 / 5

405.93
 356.09 5 to track
 49.84

49.87
 49.74
 149.61
 199.48
 249.35
 299.22
 349.09
 398.96
 448.83
 498.70
 548.57

505.90
 555.59

56.865
 106.730
 156.595
 206.460
 256.325
 306.190
 356.055
 405.920
 455.785
 505.650
 555.515
 605.380

137
 .0004
 528
 528
 .05808

43
 59.76
 102.76

215
 374.30
 143.33
 700
 150.33

372.15
 71.66
 7.00
 78.66
 71.66

71.66
 143.33
 7.00
 60.32

50.66
 49.87
 458.79

215
 143.33
 71.66
 214.99

78.66
 37.47
 7.00
 214.99

143.33
 7.00
 150.30

49.87

2375.0
 89.5
 2285.5
 2185.5

2285.5
 2150
 130.5

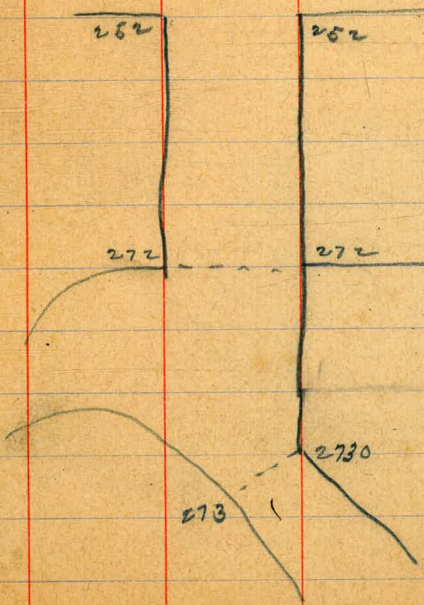
63.48
 26.00
 89.48

2285.5
 2150
 130.5

251

251

337.5
 333.00
 4.5



1301.5
 630.0
 671.5

1301.5
 660.0
 641.5

D.M. SPR. N.Y. DPSS 2 H. H. M. M. 322.26

6.35 328.61 6.09 327.52

T.P. 1.36 316.92 13.05 315.56
Hub S.E. Webster & Thorn 1.66 315.26

T.P. 1.39 306.24 12.02 304.90
T.P. 0.75 294.40 12.59 293.25

T.P. 12.61 281.79

8.67 323.93 315.26

Terrestial Soil P.C.S. W. Thorn & M. Wiley 10.22 313.51
1.45 314.96

Rock Soil N.Y. 12.32 302.69
0.68 303.32

Hub S.E. 9.60 12.00 291.32

0.63 291.95

T.P. 12.68 279.27

0.33 280.10

T.P. 0.17 267.45 12.82 267.28

T.P. 6.60 262.57 11.98 255.97

Hub S.E. 5.04 Sunday St. Int. Redwood 11.94 250.63

406.44
49.86
156.58

1468
2.3
17.4
570
365
317.01
3.09
314.92
3.65
318.57
6.65
311.92
9.48

835.4
597.5
237.9
30.0
207.9
267.9

990
404
585
321.40
2.00
313.90

Hub N.E. Redwood & Wash
Hub N.E. Red & Webster
Hub N.E. Frank & Redw

27.63

118.8 337.5
75.0
43.8

291.3 118.8 125

282.9
9.9
292.8
91.3
1.5

337.5
335.7
471.5
23.7
447.8
118.8
566.6

25.37

135.5
7.5
142.5
480
70.17

597.5
174.3
423.2
3180
266
532

180.00
41.06
221.06
550.17
548.2

34.20
35.8

39.1	39.3	39.4	39.5	39.6	39.7	39.8	39.9	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	49.0	49.1	49.2	49.3	49.4	49.5	49.6	49.7	49.8	49.9	50.0	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.8	50.9	51.0	51.1	51.2	51.3	51.4	51.5	51.6	51.7	51.8	51.9	52.0	52.1	52.2	52.3	52.4	52.5	52.6	52.7	52.8	52.9	53.0	53.1	53.2	53.3	53.4	53.5	53.6	53.7	53.8	53.9	54.0	54.1	54.2	54.3	54.4	54.5	54.6	54.7	54.8	54.9	55.0	55.1	55.2	55.3	55.4	55.5	55.6	55.7	55.8	55.9	56.0	56.1	56.2	56.3	56.4	56.5	56.6	56.7	56.8	56.9	57.0	57.1	57.2	57.3	57.4	57.5	57.6	57.7	57.8	57.9	58.0	58.1	58.2	58.3	58.4	58.5	58.6	58.7	58.8	58.9	59.0	59.1	59.2	59.3	59.4	59.5	59.6	59.7	59.8	59.9	60.0	60.1	60.2	60.3	60.4	60.5	60.6	60.7	60.8	60.9	61.0	61.1	61.2	61.3	61.4	61.5	61.6	61.7	61.8	61.9	62.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0
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Calculated by Julien A. Hall, M. Am. Soc. C. E.

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MADE IN GERMANY.

