

985

F.B. 985

FIELD BOOK

360

KEUFFEL & ESSER CO.

DRAWING MATERIALS AND SURVEYING INSTRUMENTS. NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

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.

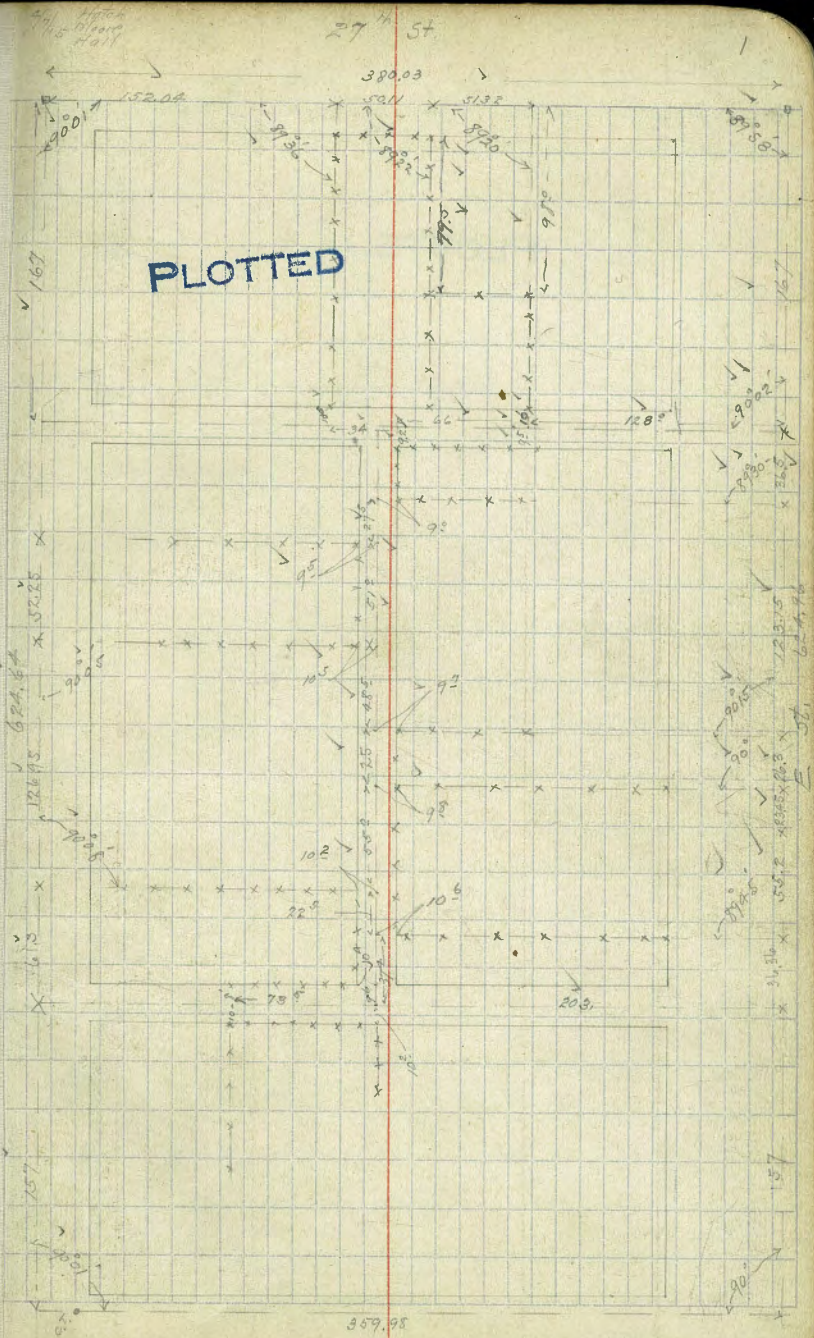
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	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	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

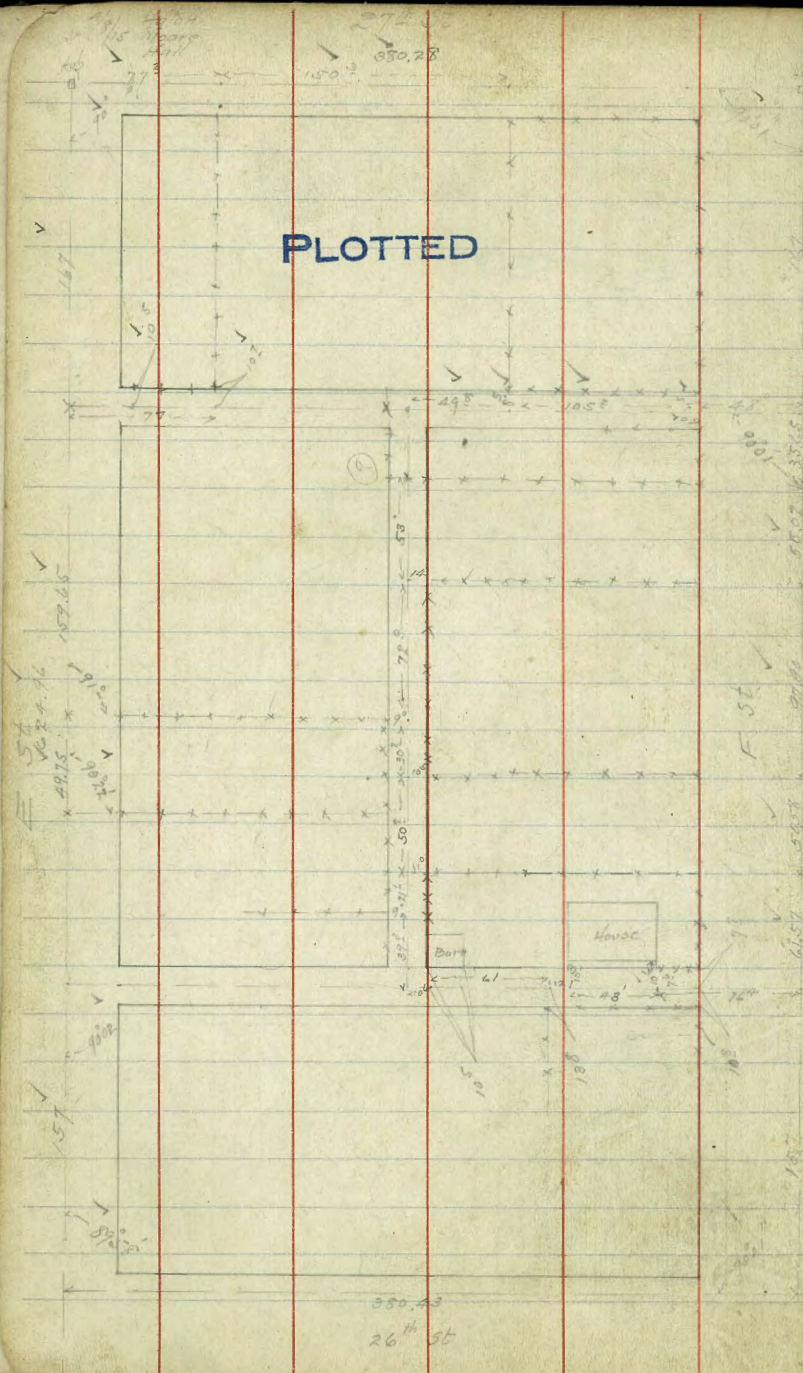
Calculated by Julien A. Hall, M. Am. Soc. C. E.

280
RETURN TO CITY ENGINEER'S OFFICE
CITY HALL, SAN DIEGO, CAL.

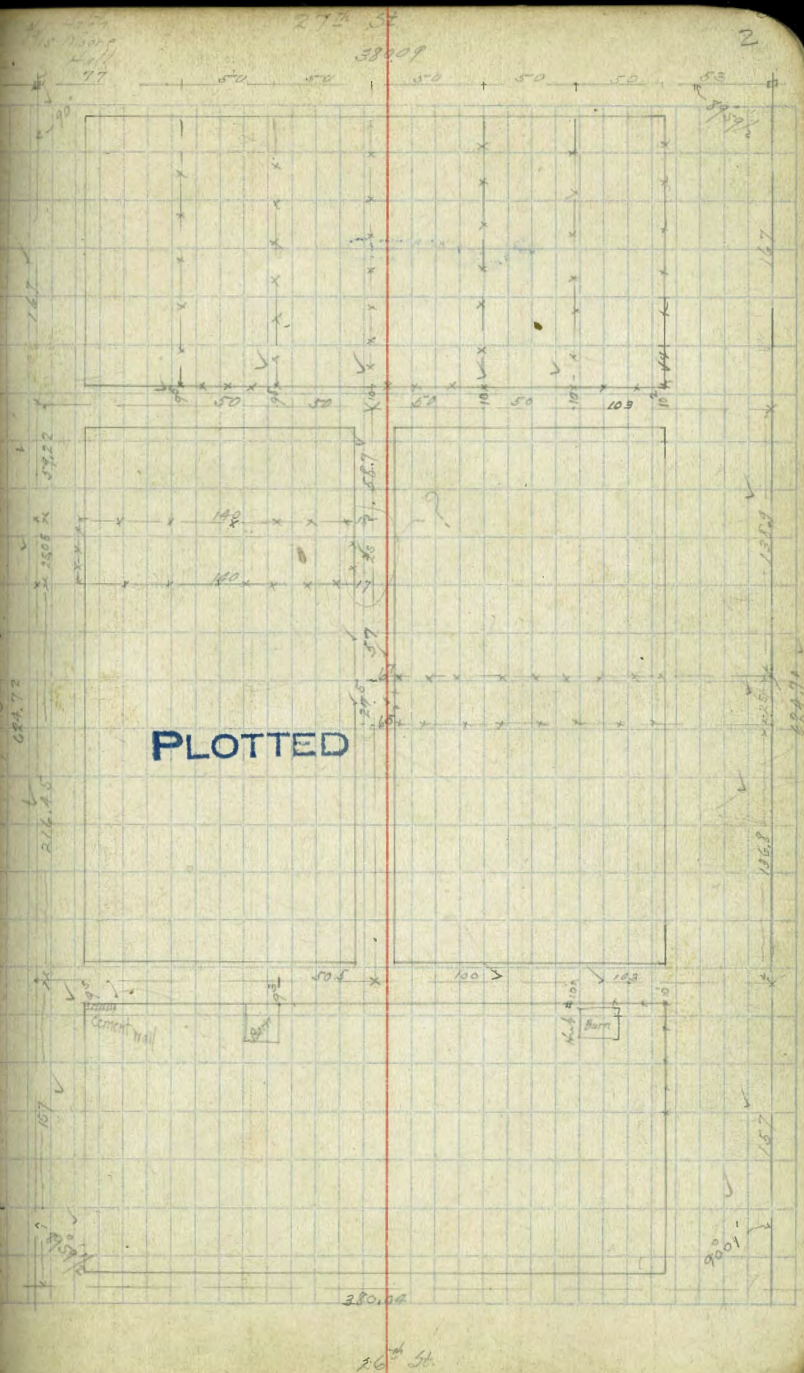
Survey of Fences
 177
 Done by James G. L.



PLOTTED

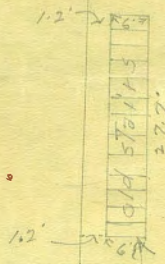


PLOTTED



Abbott

Street



STREET



PROBAIN

563'

544'

Bacon

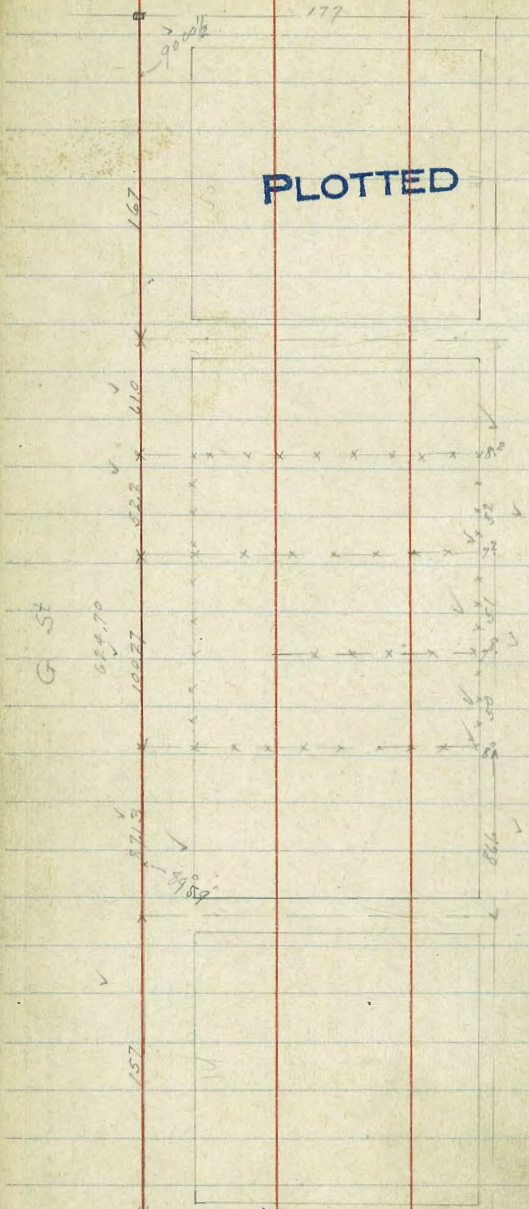
street

Hatch Moore Hall

27th St

177

PLOTTED

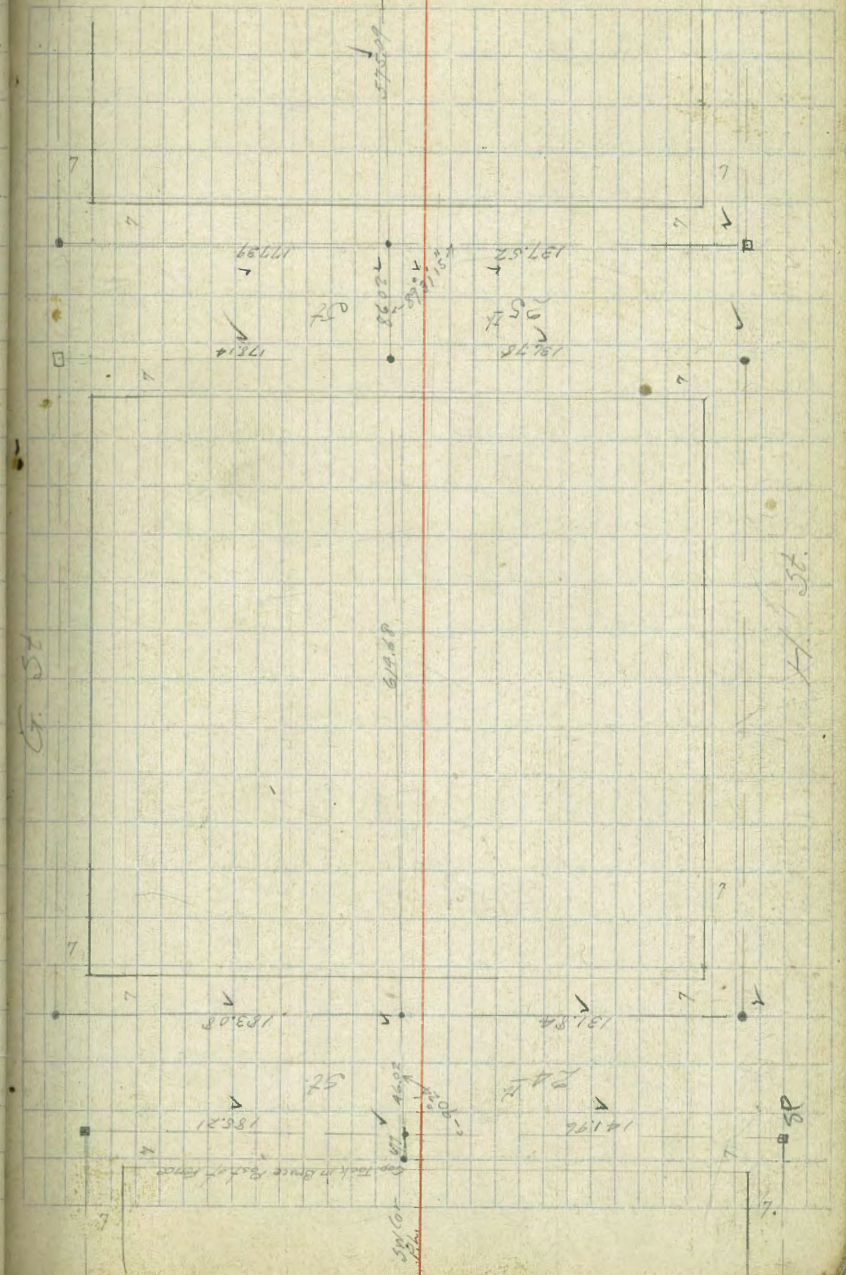


26th St

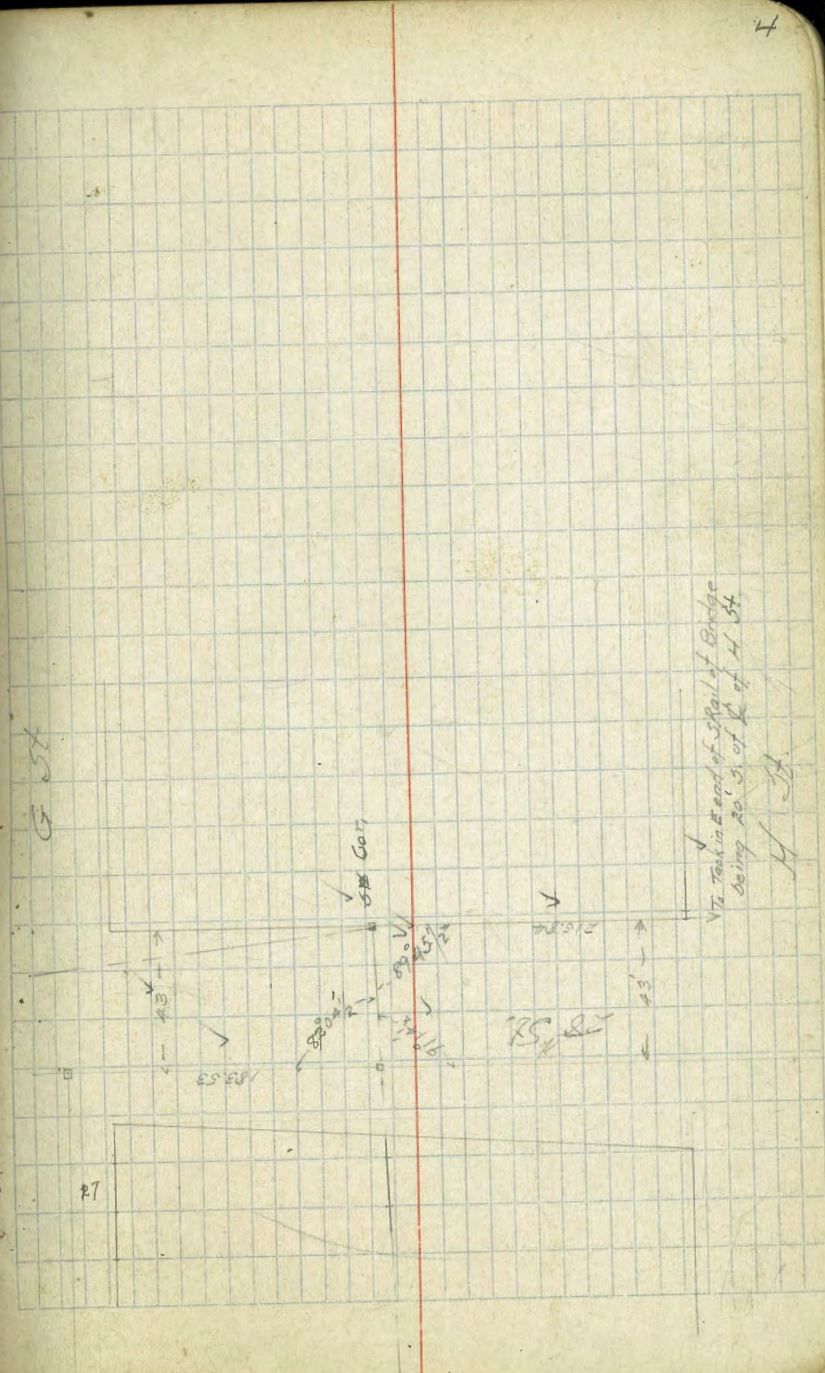
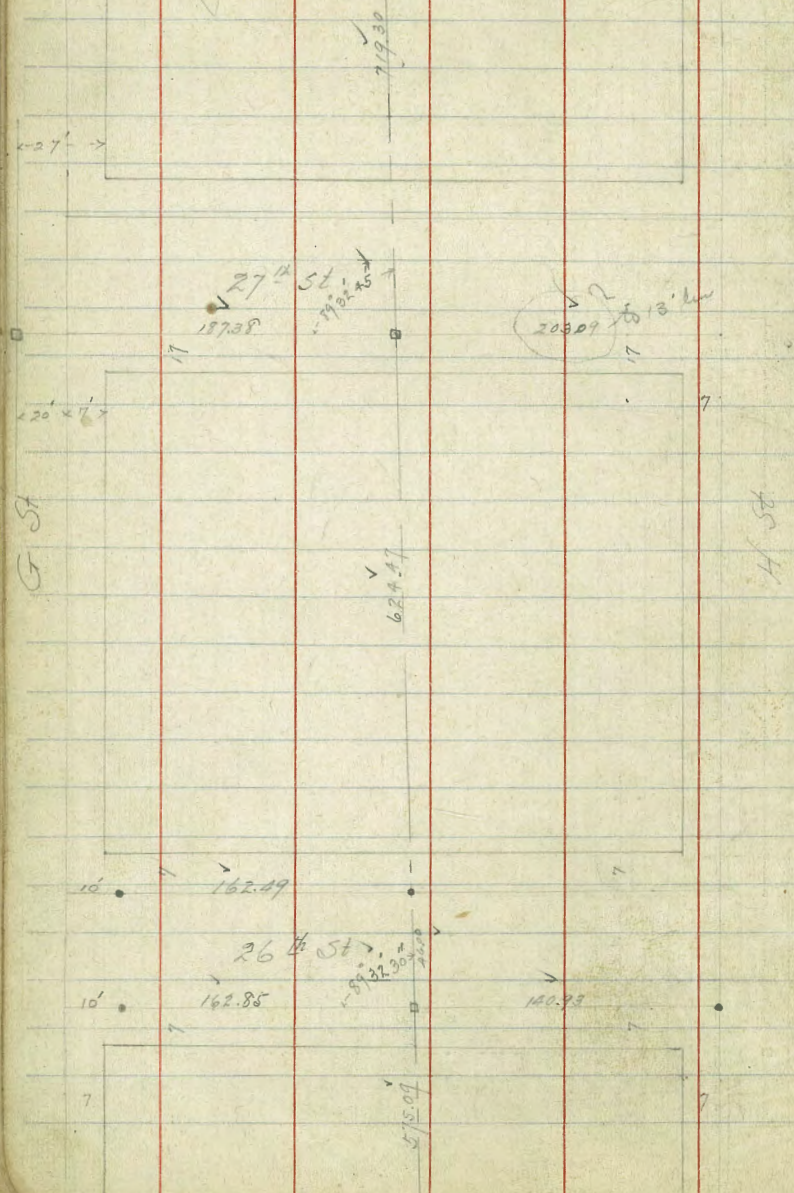
Survey of South Line of Pueblo 1149

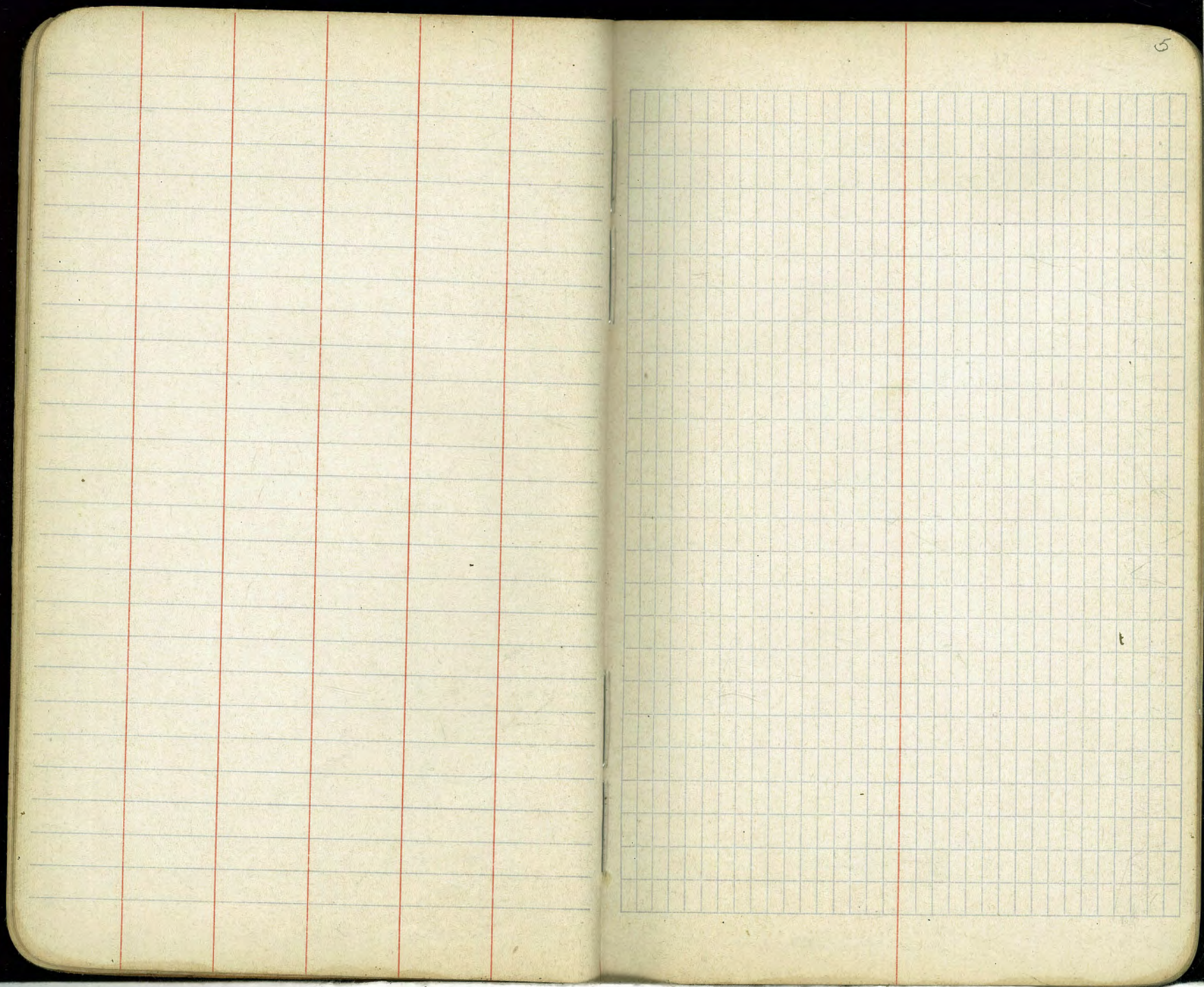
Hatch Moore Hall

30



26th St





6/15
Gregory
Moore
Miller

CROSS SECTION OF M ST 40' WIDE
FROM 37th to 38th

6

BM. spt	369	102.75	9906	NE 37 th M
E.L. 37 th ST.				
S			31	
+5			44	
+10			44	
+20			38	
+30			36	
N			43	
50' E				
N			42	
+10 = So. Rail			385	
+20			38	
+30			43	
+36			47	
S			35	
75' E				
S			31	
+4			48	
+10			44	
+20			38	
+30 = So. Rail			385	
N			41	
100' E				
N			41	
+10 = So. R			382	

+20			38	
+30			46	
+36			50	
S			27	
140' E				
S			0.9	
+4			47	
+10			47	
+20			39	
+30 = So. Rail			40	
N			38	
143' E				
N				
+10 = So. Rail			401	
+20			39	
+30			47	
+35			49	
S			45	
180' E				
S			44	
+4			51	
+10			47	
+20			42	
+30 = So. Rail			43	
N			45	

	200' E	
N		4.8
+10 = So. Rail		4.4
+20		4.2
+30		4.8
+37		5.2
S		4.5

	250' E	
S		5.0
+10		5.0
+20		4.4
+30 = So. Rail		4.8
N		5.1

	275' E	
N		5.1
+10 = So. Rail		5.0
+20		4.5
+30		5.0
+36		5.0
S		6.3

	300' E	
S		6.0
+4		5.1
+10		5.0
+20		4.7
+30 = So. Rail		5.1

	350' E	5.4
N		5.5
+10 = So. Rail		5.3
+20		4.9
+30		5.4
S		5.6

	400' E	
S		5.1
+10		5.5
+20		5.1
+30 = So. Rail		5.5
N		5.8

	450' E	
N		6.6
+2		5.9
+10 = So. Rail		5.7
+20		5.5
+30		5.9
+38		5.9
S		5.4

	500' E	
S		5.8
+10		5.8
+20		5.6
+30 = So. Rail		5.9
N		6.0

550' E

N	7.0
+10 = So Rail	6.4
+20	6.1
+30	6.2
+37	6.5
S	6.0

575' E

S	5.2
+3	6.5
+10	6.5
+20	6.4
+30 = So Rail	6.7
N	6.9

600.5' E = W.L. 38th St.

N	7.0
+10 = So Rail	6.9
+20	6.5
+30	6.7
+37	6.9
S	6.6
on RM.	6.60

96.15 = 96.11

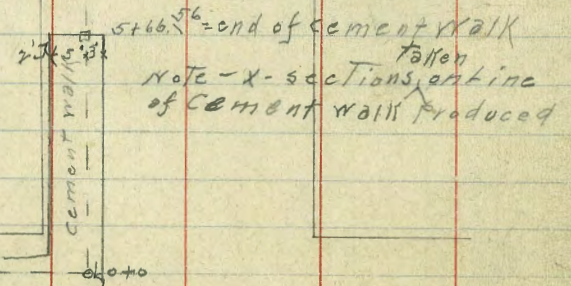
Levels for proposed steps foot of Niagara St

B.M. N.Y.	B.P. Bacon	Niagara		12.99
	9.55	22.54		
T.P.	7.36	29.53	0.37	22.17
+0 = 7' pt Bacon St				
5+66 ⁵⁶ = end of cement walk				
South	on cement walk		3.40	26.13
N			3.48	26.05
5+75				
N			12.0	17.5
S			9.0	20.5
T.P.	0.67	17.56	12.64	16.89
5+85				
Soe			3.0	14.6
+05			4.3	13.3
N			7.8	9.8

5+94⁵⁴ = w.l. toilet produced

N			10.4	7.2
+03			9.0	8.6
Soe			8.8	8.8
6+01				
Soe			14.6	3.0
N			14.2	2.4
6+07				
N			14.8	2.8
Soe			14.9	2.7

Abbott 7'

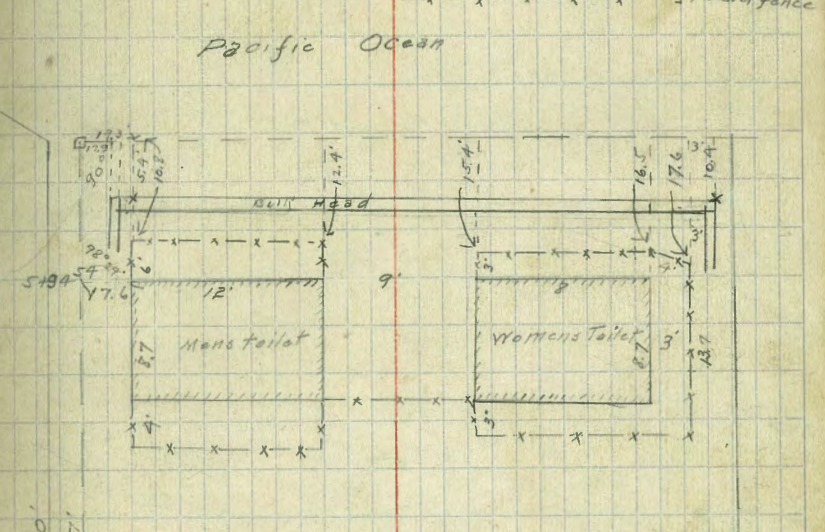


Bacon

St

3/14/19 Dunkle Shaw EVANS 9

Ocean Beach toilets



Note - embankment back of toilet 5' above floor level

600'	607'			2.56
				2.74
				5.30
		9.09	22.08	12.99
		10.53	31.28	20.45
			1.63	4.26
				27.02

--- 7' pt

Bacon St

St

x-section west End of Niagara St see sketch
on opposite page

B.M. N.M. Brassing Niagara St. Bacon				12.99
B.M.	10.37	23.36		✓
T.P.	2.66	3.17	1.85	26.51

x-section "H"

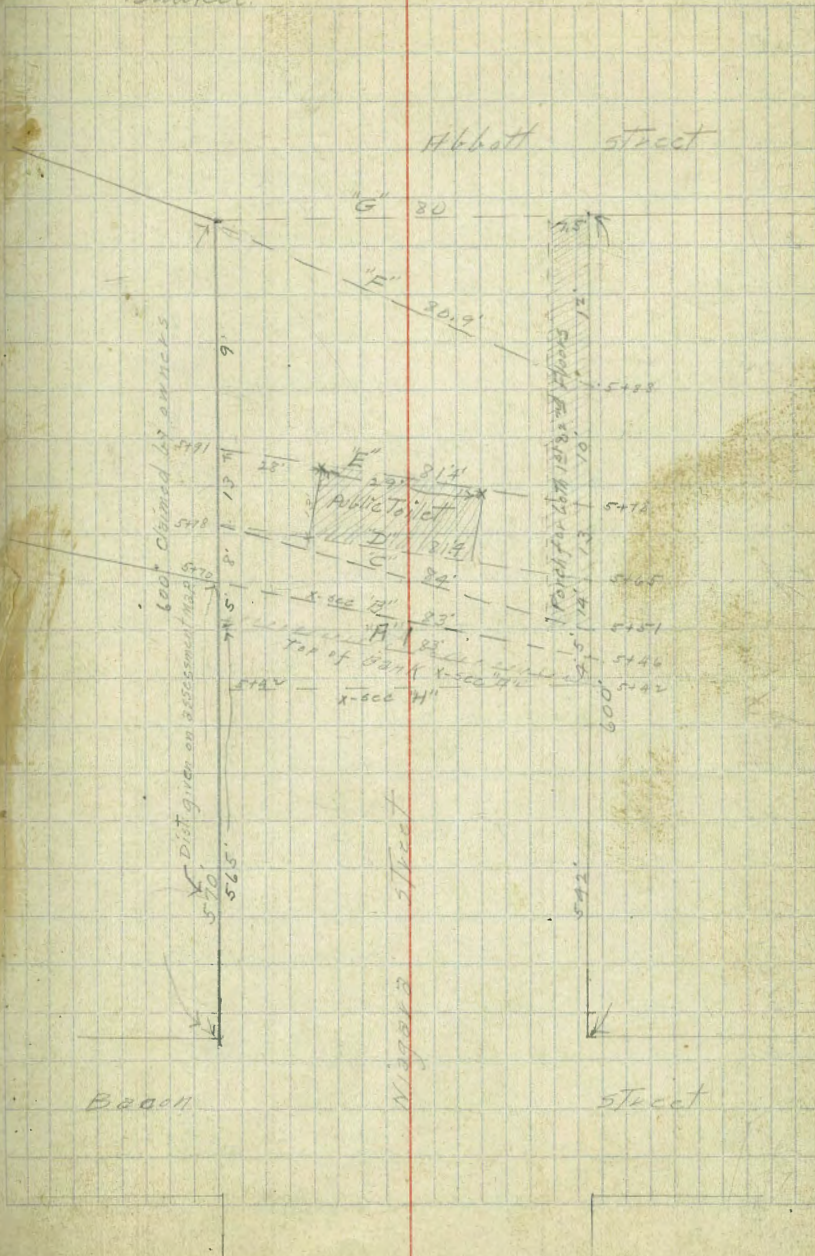
South		4.3	25.9
+10		4.5	25.7
+20		4.6	25.6
+30		4.4	25.8
+40		4.1	26.1
+50		4.3	25.9
+60		3.8	26.4
+70		4.3	25.9
North		4.9	25.3

x-section "A"

North		4.9	25.3
+10		4.4	25.8
+20		4.3	25.9
Top of curb		3.8	26.4
+30		4.5	25.7
+40		4.1	26.1
+50		4.2	26.0
+60		4.4	25.8
Top of curb		4.8	25.9
+70		4.7	25.5
South		4.9	25.3

6/13/15
Shaw
Bunker

10



30.17

x-section "B"

South		11.2	19.0
+10		11.9	18.3
+20		11.5	18.7
+30		12.7	17.5
+38		12.1	18.1
+40		9.9	20.3
+50		10.4	19.8
+60		10.3	19.9
+70		13.0	17.2
+73		10.4	19.8
North		10.3	19.9
T.P.	0.86	18.02	13.01

x-section "C"

North		0.9	17.1
+10		6.4	11.6
+17		4.3	13.7
+20		0.7	17.3
+30		1.3	16.7
+40		3.5	14.5
+50		5.4	12.6
+58		5.4	12.6
+60		3.7	14.3
+70		5.9	12.1
+74		7.4	10.6
+76		3.4	14.6
South		3.7	14.3

13.02

x-section "D"

South		3.7	14.3
+05		4.1	13.9
+07		3.0	10.0
+10		7.6	10.4
+17		6.3	11.7
+20		7.4	10.6
+23		7.4	10.6
+24		12.4	5.6
+30		12.4	5.6
+40		12.4	5.6
+50		12.4	5.6
+55		12.4	5.6
+56		3.9	9.1
+60		8.0	10.0
+66		8.2	9.8
+70		10.6	7.4
North		11.3	6.7
T.P.	4.22	9.61	12.63

9.61
X-section "E"

North	2.9	6.7
+10	3.0	6.6
+20	2.8	6.8
+30	2.9	6.7
+40	4.2	5.4
+50	4.4	5.2
+60	4.3	5.3
+70	2.9	6.7
South	2.8	6.8

X-section "F"

South	5.0	4.6
+10	4.6	5.0
+20	4.4	5.2
+30	4.8	4.8
+31	5.9	3.7
+40	6.0	3.6
+49	5.9	3.7
+45	4.7	4.9
+50	4.5	5.1
+60	4.4	5.2
+62	5.3	4.3
+70	3.9	5.7
North	3.7	5.9

9.61

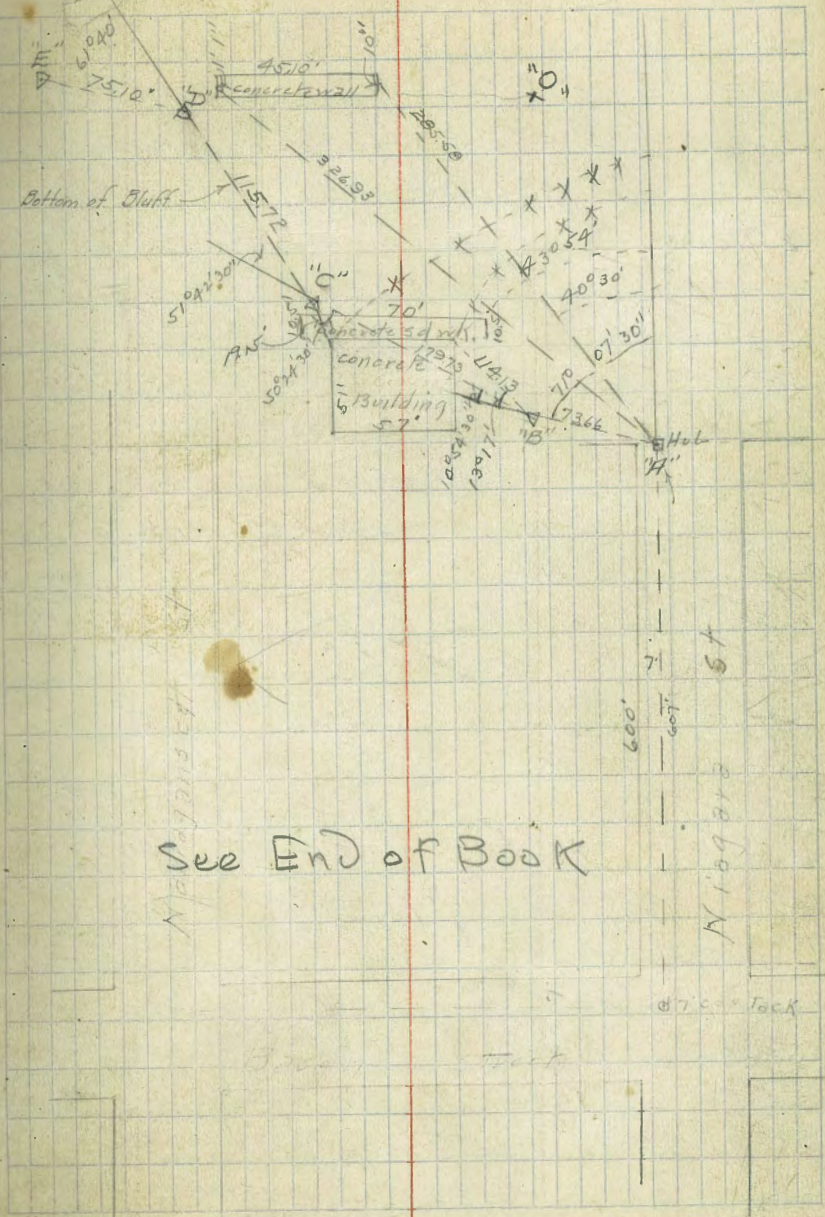
12

North	8.2	1.4
+10	8.1	1.5
+20	8.1	1.5
+30	7.8	1.8
+40	7.7	1.9
+50	7.3	2.3
+60	6.4	3.2
+67	5.0	4.6
+70	5.2	4.4
South	5.0	4.6

	+R	H.I	-R	Elev
B.M. Grass plg N.E. Abbot's Newport				6.50
	4.89	11.39		
Elev curb sou end Benbough Bldg			5.13	6.26
T.P.	1.56	3.32	9.63	1.76
"A"			1.56	1.76
"B"			1.30	0.02
No end curb concrete Bldg			0.49	2.83
Sou " "	" "	" "	0.00	3.32
"C"			2.02	1.30
No end concrete wall			3.57	-0.21
Sou " "	" "	" "	3.51	-0.19
"D"			4.32	-1.00
"E"			3.06	+0.26
"O"				-2.20
Rock at NE end wall				-2.00
Approx Sand				-6.00

See End of Book

10 1/2 Dunkle
1/8 Shaw
Evans



See End of Book

87° 00' Lock

Gregory
Moore
Miller

X = SECTION OF FILL ON
4 5 and
Between Pascoe

128.3 49.

14

B.M.	0.80	138.65	137.85	50' tie to No. of H. at Pascoe
T.P.	1.18	128.31	11.52	127.13
50' East of Pascoe = 00' 07" North				
70' " " "				
40' No. of L			8.4	119.9
31' " " "			7.6	120.7
24' " " "			4.6	123.7
15' " " "			3.5	124.8
L			3.0	125.3
15' So. of L			3.5	124.8
80' East of Pascoe = 00' 04" South				
95' " " "				
30' So. of L			5.6	122.7
15' " " "			3.8	124.5
L			3.2	125.1
19' No. of L			3.8	124.5
30' " " "			10.0	118.3
46' " " "			10.3	118.0
54' " " "			11.6	116.7
120' E				
55' " " "			14.1	114.2
50' " " "			12.5	115.8
28' " " "			12.8	115.5
15' " " "			3.8	124.5
L			3.3	125.0

15' So. of L			3.8	124.5
23' " " "			9.6 = toe	118.7
145' E				
29' So. of L			15.6 = toe	112.7
15' " " "			4.2	124.1
L			3.6	124.7
15' No. of L			4.2	124.1
25' " " "			12.8	115.5
40' " " "			15.2	113.1
54' " " "			15.2	113.1
58' " " "			18.2	109.9
170' E				
61' No. of L			21.0	107.3
53' " " "			12.9	110.4
40' " " "			18.2	110.1
28' " " "			14.5	113.8
15' " " "			4.1	123.9
L			4.1	124.2
15' So. of L			4.4	123.9
T.P.	4.28	124.37	8.22	120.09
40' So. of L			14.2	107.2
195' E				
43' So. of L			21.6	102.8
15' " " "			0.7	123.7
L			0.3	124.1
15' No. of L			0.7	123.7

1244 H₃

H ST.

1244 H₃

15

30' No. of G	11.8	112.6
40' " "	15.4	109.0
53' " "	15.7	108.7
62' " "	21.0	103.4
220' E		
60' No. of G	19.9	104.5
53' " "	16.9	107.5
40' " "	15.4	109.0
30' " "	12.8	111.6
15' " "	6.0	123.4
G	0.5	123.9
15' So. of G	1.0	123.4
50' " "	28.3	96.1
245' E		
42' So. of G	21.2	103.2
15' " "	1.3	123.1
G	0.8	123.6
15' No. of G	1.3	123.1
30' " "	12.7	111.7
38' " "	15.6	108.8
270' E		
32' No. of G	12.1	112.3
27' " "	10.8	113.6
15' " "	1.6	122.8
G	1.1	122.3
15' So. of G	1.6	122.8

33' So. of G	15.2	109.2
295' E		
29' So. of G	12.0	112.4
15' " "	1.9	122.5
G	1.4	123.0
15' No. of G	1.9	122.5
28' " "	11.3	113.1
320' E		
27' No. of G	11.3	113.1
15' " "	2.3	122.1
G	1.8	122.6
15' So. of G	2.3	122.1
27' " "	11.6	112.8
345' E		
28' So. of G	12.3	112.1
15' " "	2.8	121.6
G	2.3	122.1
15' No. of G	3.8	121.6
26' " "	10.4	114.0
370' E		
27' No. of G	12.2	112.0
15' " "	3.2	121.2
G	2.7	121.7
15' So. of G	3.2	121.2
28' " "	12.6	111.8

12437

H ST.

395' E

29' 50" of G	14.1	110.3
15' - - -	3.4	121.0
2	2.9	121.5
15' No. of G	3.4	121.0
28' - - -	12.3	112.1

420' E

28' No. of G	12.9	111.5
15' - - -	3.6	120.8
G	3.1	121.3
15' 50" of G	3.6	120.8
30' - - -	15.3	109.1

445' E

31' 50" of G	16.4	108.0
15' - - -	3.9	120.5
G	3.2	121.0
15' No. of G	3.9	120.5
27' - - -	12.5	111.9

470' E

30' No. of G	15.2	109.2
15' - - -	4.2	120.2
G	3.7	120.7
15' 50" of G	4.2	120.2
34' 50" of G	18.8	105.6

1244 H9

16

495' E

37' 50" of G	21.5	102.9
15' - - -	4.4	120.0
G	3.9	120.5
15' No. of G	4.4	120.0
31' - - -	17.1	107.3

520' E

38' No. of G	17.8	106.6
15'	4.6	119.8
G	4.1	120.3
15'	4.6	119.8
41' 50"	24.6	99.8

535' E

42' 50" of G	25.3	99.1
15' - - -	4.9	119.5
G	4.4	120.0
15' No. of G	4.9	119.5
32' - - -	17.6	106.8

545' E

32' No. of G	17.4	107.0
15'	5.0	119.4
G	4.5	119.9
15' 50" of G	5.0	119.4
41' - - -	23.6	100.8

124.37H ST.

560' E

39' So. of L	23.0	1014
15' - - -	5.2	119.2
L	4.7	119.7
15' No. of ✓	5.2	119.2
30' ✓ ✓ ✓	16.5	1079

570' E

30' No. of L	16.2	108.2
15' ✓ ✓ ✓	5.2	119.2
L	4.7	119.7
15' So. of ✓	5.2	119.2
37' ✓ ✓ ✓	19.8	1046
42' - - -	21.6	1028

595' E

34' So. of L	19.3	1051
15' - - -	5.5	118.9
L	5.0	119.4
15' No. of ✓	5.5	118.9
28' ✓ ✓ ✓	12.5	111.9

620' E

24' No. of L	11.9	112.5
15' ✓	5.8	118.6
L	5.3	119.1
15' So. of ✓	5.8	118.6
32' ✓ ✓ ✓	17.5	106.9

124.408

21 16.6

17

645' E

33' So. of L	16.7	107.7
15' - - -	6.0	118.4
L	5.5	118.9
15' No. of ✓	6.0	118.4
25' - - -	13.9	110.5

670' E

28' No. of L	15.0	109.4
15' No. of L	6.3	118.1
L	5.8	118.6
15' So. of ✓	6.3	118.1
21' - - -	7.9	116.5
37' - - -	19.3	105.1

T.P. 659 123.62 7.3 ✓ 117.03

695' E

44' So. of L	25.7	97.9
18' ✓ ✓ ✓		115.9 ✓
15' - - -	5.9	117.7
L	5.3	118.3
16' No. of ✓	5.9	117.7
31' - - -	16.6	107.0

720' E

40' No. of L	21.4	102.2
16' - - -	6.2	117.4
L	5.7	117.9
15' So. of ✓	6.2	117.4
21' ✓ ✓ ✓	6.3	115.3 ✓

12362

H ST.

53 So. of E	31.1	92.5
730' E		
53 So. of E	31.6	92.0
21 - - -	8.5	115.1
15' - - -	6.1	117.5
E	5.6	118.0
16 No. of E	6.1	117.5
41 - - -	23.4	100.2
745' E		
44 No. of E	25.0	98.6
17' - - -	6.1	117.5
E	5.6	118.0
16 So. of E	6.1	117.5
22 - - -	7.1	116.5
51' - - -	28.9	94.7
760' E		
43 So. of E	25.3	98.3
18' - - -	6.1	117.5
15' - - -	6.0	117.6
E	5.5	118.1
16 No. of E	6.0	117.6
45' - - -	26.3	97.3
770' E		
47 No. of E	27.6	96.0
16' - - -	5.6	118.0
E	6.1	117.5

123629

18

15 So. of E	56	118.0
18' - - -	59	117.7
21' - - -	23.3	100.3
795' E		
36 So. of E	20.0	103.6
18' - - -	5.9	117.7
15' - - -	5.6	118.0
E	5.1	118.5
15 No. of E	5.6	118.0
35' - - -	19.3	104.3
820' E		
27 No. of E	14.5	109.1
15' - - -	5.3	118.3
E	4.8	118.8
15 So. of E	5.3	118.3
17' - - -	5.9	117.7
845' E		
28 So. of E	14.1	109.5
15' - - -	5.0	118.6
E	4.5	119.1
15 No. of E	5.0	118.6
21' - - -	9.6	114.0
870' E		
20 No. of E	8.1	115.5
15' - - -	4.7	118.9
E	4.2	119.4

12362

H ST.

15' So. of ϕ		4.7	118.9
27' - - -		13.9	109.7
	895' E		
32' So. of ϕ		16.4	107.2
15' - - -		4.1	119.5
	ϕ	3.6	120.0
15' No. of ν		4.1	119.5
20' - - -		7.9	115.7
	920' E		
23' No. of ϕ		9.2	114.4
15' - - -		3.6	120.0
	ϕ	3.1	120.5
15' So. of ν		3.6	120.0
36' - - -		19.4	104.2
	945' E		
40' So. of ϕ		21.7	101.9
15' - - -		3.0	120.6
	ϕ	2.5	121.1
15' No. of ν		3.0	120.6
26' - - -		10.9	112.7
	951' E		
27' No. of ϕ		11.3	112.3
15' - - -		2.9	120.7
	ϕ	2.4	121.2
15' So. of ν		2.9	120.7
47' - - -		26.2	97.4

123643

19

970' E

42' So. of ϕ		21.5	102.1
15' - - -		2.5	121.1
	ϕ	2.0	121.6
15' No. of ν		2.5	121.1
31' - - -		13.8	109.8
	995' E		
35' No. of ϕ		16.2	107.4
15' - - -		1.9	121.7
	ϕ	1.4	122.2
15' So. of ϕ		1.9	121.7
42' - - -		20.6	103.0
	1012' E		
38' So. of ϕ		18.1	105.5
15' - - -		1.5	122.1
	ϕ	1.0	122.6
15' No. of ν		1.5	122.1
35' - - -		15.8	107.8
	1020' E		
32' No. of ϕ		13.3	110.3
15' - - -		1.3	122.3
	ϕ	0.8	122.8
15' So. of ν		1.3	122.3
36' - - -		17.1	106.5

12362

H ST.

1045 E

31'50.0x	12.9	110.7
15' - - -	0.8	122.8
↓	0.3	123.3
15' No. 0x	0.8	122.8
26' - - -	8.9	114.7

1070 E

20' No. 0x	3.0	120.6
15' - - -	0.3	123.3
↓	+ 0.2	123.8
15'50.0x	0.3	123.3
26' - - -	8.6	115.0

1095 E = 0.0

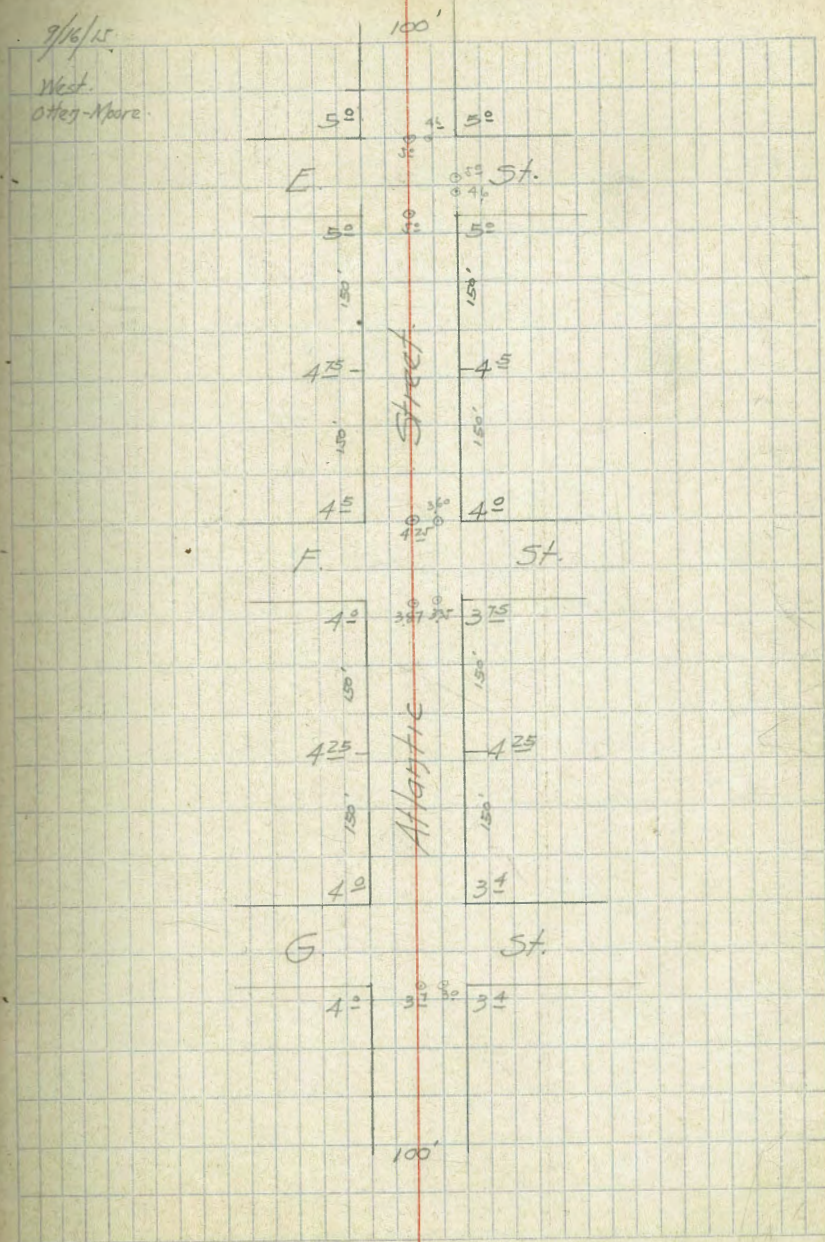
CHK B.M.	4.50	119.12 - 0.6
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20

Levels for Valve Casings for Water Dept.
on Atlantic at E, F, & G Sts.

B.M. 3 E. At Atlantic Plug.		3.20
4.84	8.04	
Grade 3 L. G. St., Approx E 1/4 Atlantic	5.04	3.00 ✓
" " F " " " "	4.69	3.35 ✓
" NL " " " " "	4.44	3.60 ✓
T.P.	3.29	4.75
4.01	8.82	
Grade EL Atlantic approx 1/4 of E	4.22	4.60 ✓
" NL EST. " E 1/4 Atlantic	4.22 ✓	4.60 ✓

Casings average from 17 ft to 20 ft E. of E Atlantic,
so set stakes 0.4 below curb grade.



Arista Street levels for grade.

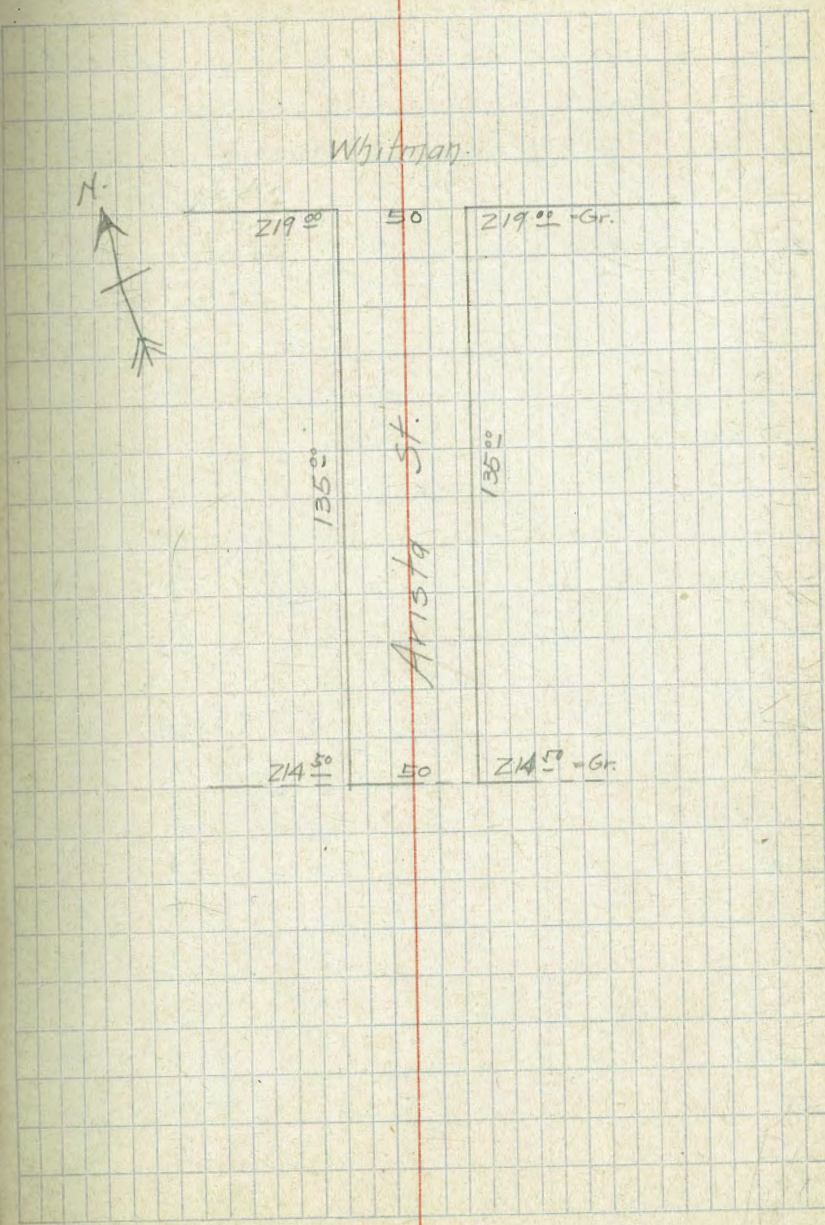
Whitman to 135th St.

B.M. NE	Trips	8 ft. Stake	Flag	267.06
T.P.	1.78	268.84	12.27	256.55
T.P.	0.96	257.51	11.82	245.69
T.P.	1.76	247.45	12.07	235.38
T.P.	1.66	237.04	12.68	224.36
	1.75	226.11		Gr.

5th Whitman

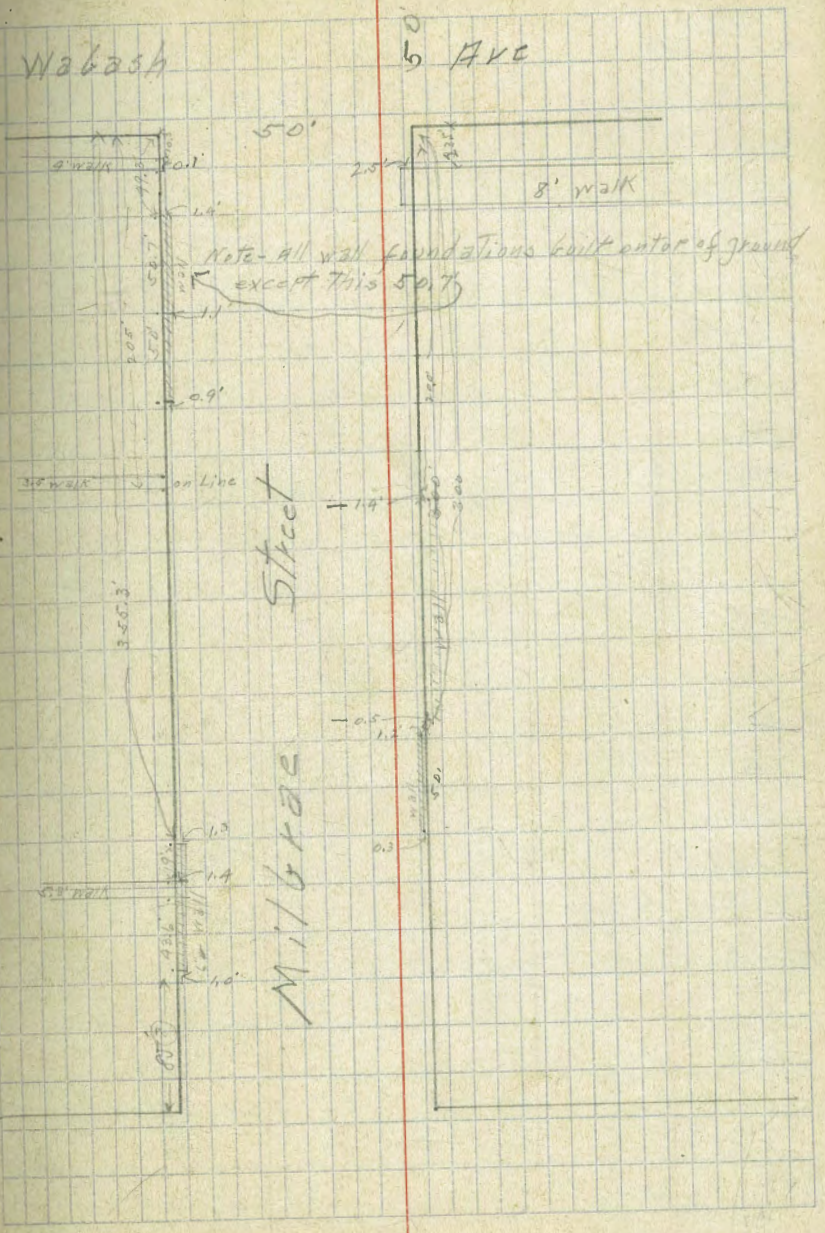
W. Curb		7.2	218.9	219.00
E. "		7.3	218.8	219.00
	50' S.			
E. Curb		8.8	217.3	217.33
W. "		8.7	217.4	217.33
	100' S.			
W. Curb		10.5	215.6	215.67
E. "		10.4	215.7	215.67
	135' S. = end grading			
E. Curb		11.6	214.5	214.50
W. "		11.9	214.2	214.50

West - Otter - Moore



X-section of Milbrae Street from S.L. Wabash
 Ave to N.L. Street
 B.M. T.R. 2011 M.E. 37th & Sigel 99.06 ^{2.59} _{1.5} ^{Simple} ^{Shaw} ^{Bank}

T.R.	2.59	101.65	99.06	98.71
T.R.	2.59	91.25	6.27	82.56
+10 = S.L. Wabash Ave				
W	10' curbs	6.6		84.9
curb	7 1/2' 1/4"	7.1		84.4
+1		7.8		83.7
+0.5		8.0		83.5
1/4		7.7		83.8
M		7.9		83.6
1/4		7.4		83.1
+0.5		8.7		82.8
curb		8.5		83.0
E		9.0		82.5
+10 = 5th M.L.				
		6.9		84.6
+25 S of Wabash				
E-top walk		10.5		81.0
curb		10.5		81.0
1/4		10.3		81.2
M		9.5		82.0
1/4		9.2		82.3
curb		9.1		82.4
+1		8.8		82.7
+0.8		8.5		83.0
W		8.0		83.5
T.R.	5.19	85.07	11.57	79.98



H3. MILBRAE ST.
85.07

0450

W-top wall	1.9	83.2
+0.4 ground	3.9	81.2
+0.4 bottom wall	4.9	80.2
crib	4.3	80.8
+0.3	4.8	80.3
1/4	4.8	80.3
M	4.9	80.2
1/4	5.8	79.3
crib	6.1	79.0
E	5.8	79.3

0475

E	8.3	76.8
crib	7.8	77.3
1/4	7.6	77.5
M	6.6	78.5
1/4	6.2	78.9
crib	6.1	79.0
+0.9	6.1	79.0
W-step	5.4	79.7
T.P.	2.39	82.27
	519	79.88

82.2747

24

140

W-top wall	0.5	81.8
+0.4 ground	4.7	77.6
+0.4 bottom wall	5.4	76.9
crib	5.0	77.3
+0.5	6.0	76.3
1/4	5.8	76.5
M	5.9	76.4
1/4	6.7	75.6
crib	6.7	75.6
E	7.0	75.3

1425

E	8.9	73.4
crib	8.6	73.7
1/4	8.6	73.7
M	7.9	74.4
1/4	8.1	73.2
crib	7.3	75.0
+0.9	6.4	75.9
W-top wall	4.2	77.1
		78.1

MILBRAE ST.

X9 82.27

NE Top wall	1+50	6.4	75.9
+01		8.6	73.7
cul		9.4	72.9
+03		10.0	72.3
"4		10.1	72.2
M		10.0	72.3
"4		10.5	71.8
cul		10.4	71.9
E		10.6	71.7
	1+75		
E		12.1	70.2
cul		12.3	70.0
+03		12.6	69.7
"4		12.1	70.2
M		11.6	70.7
"4		12.2	70.1
+05		12.4	69.9
cul		11.5	70.8
+09		11.2	71.1
W		10.3	72.0
T.P.	0.34	70.18	12.43

70.18

25

			2+0	
W		0.6		69.6
+02		1.2		69.0
cul		1.5		68.7
+02		1.9		68.3
"4		1.5		68.7
M		1.0		69.2
"4		1.4		68.8
+05		2.0		68.2
cul		1.4		68.8
E		1.1		69.1
Top wall		+0.7		70.9
			2+05	
west wall		0.7		69.5
			2+25	
Top wall		0.2		70.0
E		2.0		69.2
cul		2.3		67.9
"4		2.4		67.8
M		2.2		68.0
"4		2.9		67.3
cul		2.8		67.4
+08		3.5		67.7
W		1.8		68.4

70.18 X9

MILDRAE ST.

2+50

W	3.9	66.3
Crk	3.9	66.3
top	4.3	65.9
1/4	3.9	66.3
M	3.9	66.3
1/4	3.4	66.8
Crk	3.1	67.1
E	2.8	67.4
Top wall	1.0	69.2

2+75

Top wall		
E	3.5	66.7
Crk	3.9	66.3
1/4	4.1	66.1
M	4.0	66.2
1/4	4.7	65.5
Crk	4.8	65.4
W	5.2	65.0

3+0

W	6.3	63.9
Crk	5.7	64.5
+0.2	6.1	64.1
1/4	5.6	64.6
M	4.9	65.3
1/4	5.2	65.0
Crk	5.3	64.9
+0.2	4.9	65.3
E Top wall	3.4	66.8

70.2 X9

26

3+25

E Top wall	4.1	65.1
+0.08	5.3	64.9
Crk	6.2	64.0
1/4	6.4	63.0
M	6.0	63.8
1/4	6.6	64.2
Crk	6.5	63.6
W	6.7	63.7
		63.5

3+50

W	7.4	62.8
Crk	7.0	63.2
1/4	7.2	63.0
M	6.7	63.5
1/4	7.0	63.2
Crk	6.6	63.6
+0.97	6.2	64.0
E Top wall	4.4	65.8

3+75

E	6.0	64.2
top	6.6	63.6
Crk	6.9	63.3
1/4	7.6	62.6
M	7.2	63.0
1/4	7.6	62.6
Crk	7.7	62.5
W Top wall	7.6	62.6

3+55

Top wall	7.1	63.1
		63.2

70.18 H⁹

MILBRAE ST.

3774

Top wall	7.0	63.2
	4.0	
W	8.5	61.7
+00 ⁷ Top wall	7.0	63.2
erb	8.4	61.8
"4	8.4	61.8
M	8.0	62.2
"4	8.0	62.2
erb	7.4	62.8
+07	7.0	63.2
E	6.6	63.6

4425

E	7.5	62.7
+03	8.2	62.0
erb	8.4	61.8
"4	8.9	61.3
M	8.8	61.4
"4	9.2	61.0
erb	9.0	61.2
W	9.4	60.8

70.18

27

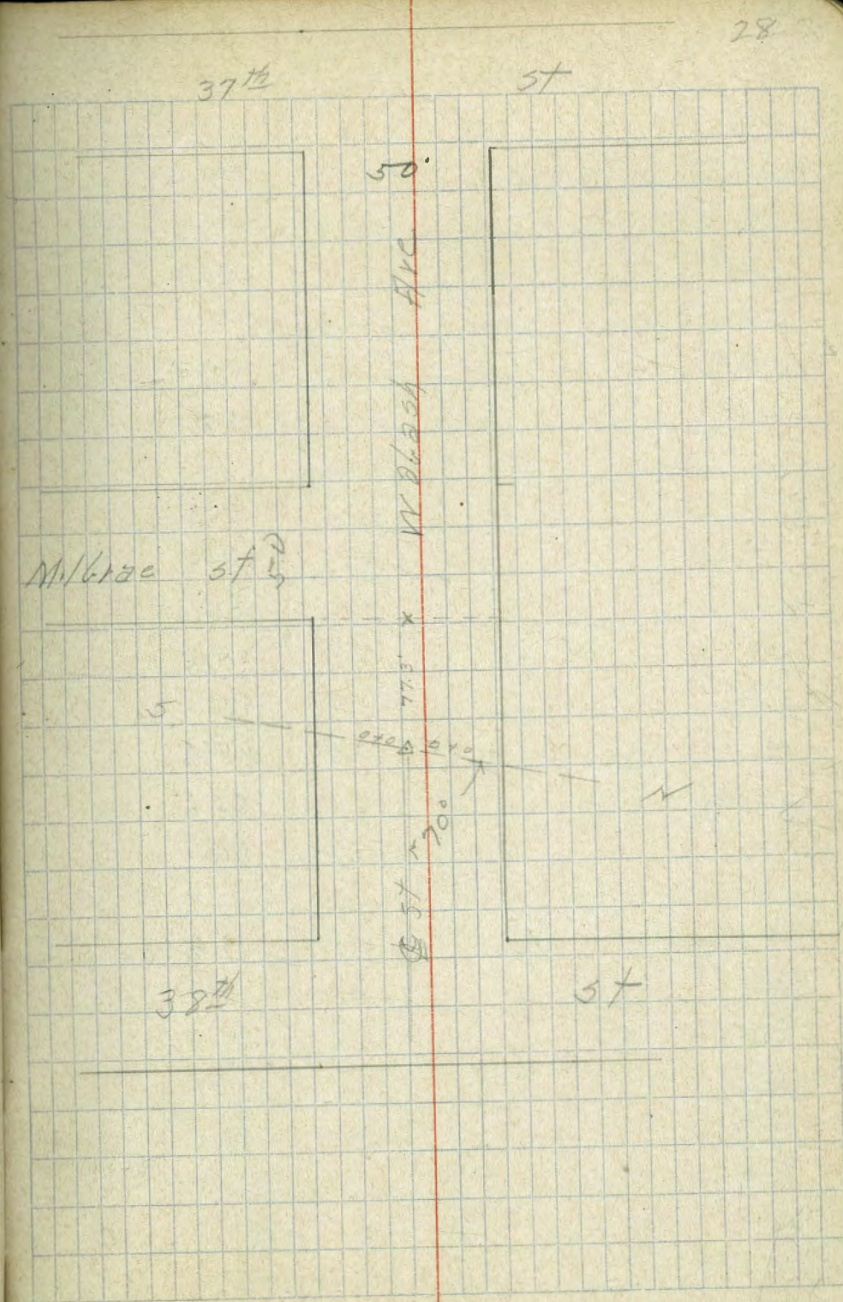
4440³ = ML "Q" ST

W	10.3	59.9
erb	9.8	60.4
"4	10.0	60.2
M	9.3	60.9
"4	9.1	61.1
erb	9.0	61.2
E	8.6	61.6

Elev. checked To Bench 37th & Woodman

X-section Wabash Ave from E. L. 37th to W. L. 38th
 Wabash 50' wide 10' walks 7 1/2' 11 1/2'
 B.M. 10.76 measured from page 82.56
 93.32
 at 2 1/2' E. L. 37th 37

N	10.7	82.6
erb	11.3	82.0
+02	12.2	81.1
"4	12.2	81.1
"4	12.2	81.1
"4	12.7	80.6
+05	13.3	80.0
erb	13.0	80.3
5	13.9	79.4
at 2 1/2' E		
5	12	81.3
erb	11.6	81.7
"4	11.6	81.7
"4	11	82.3
"4	11.2	82.1
+03	11.1	82.2
erb	10.3	83.0
N	10.0	83.3



93.32

0450

N	8.0	85.3
erb	9.1	84.2
1/4	10.0	83.3
M	10.0	83.3
1/4	10.3	83.0
erb	10.3	83.0
S	11.1	82.2

0475

S	10.0	83.3
10V	9.3	84.0
erb	8.9	84.4
1/4	8.8	84.5
M	8.2	85.1
1/4	8.4	88.9
erb	7.5	85.8
N	6.9	86.4

140

N	9.7	88.6
erb	5.0	88.3
1/4	6.2	87.1
M	6.2	87.1
1/4	6.8	86.5
erb	6.9	86.4
108	7.6	85.7
S	8.3	85.0

93.32

1425

29

S	6.7	86.6
erb	5.9	87.9
1/4	5.0	88.3
M	4.8	88.5
1/4	4.3	89.0
erb	3.5	89.8
N	2.8	90.5

1450

N	1.5	91.8
erb	2.6	90.7
1/4	3.5	89.8
M	3.7	89.6
1/4	4.0	88.3
erb	4.2	89.1
S	4.5	88.8

1475

S	4.3	89.0
erb	4.1	89.2
1/4	4.1	89.2
M	3.9	89.4
1/4	3.7	89.6
erb	2.7	90.6
105	2.5	90.8
N	1.6	91.7

93.32

240

N	2.5	90.8
cut	3.7	89.6
1/4	4.6	88.7
M	4.8	88.5
1/4	4.9	88.4
cut	5.1	88.2
S	5.3	88.0

2425

S	6.3	87.0
cut	6.0	87.3
1/4	6.3	87.0
M	6.0	87.3
1/4	5.6	87.7
cut	4.9	88.4
+06	4.8	88.5
N	3.8	89.5

2450

N	5.4	87.9
cut	6.2	87.1
1/4	6.6	86.7
M	6.8	86.5
1/4	7.2	86.1
cut	7.2	86.1
S	7.2	86.1

30

2425 = m. Milbrac

S	8.4	84.9
cut	8.1	85.2
1/4	8.3	85.0
N	7.7	85.6
1/4	7.2	86.1
cut	6.7	86.6
N	6.6	86.7
M. cut		
N	6.9	86.4
cut	7.4	85.9
1/4	7.6	85.7
N	8.0	85.3
1/4	8.9	84.4
cut	9.5	83.8
S	8.9	84.4
M 1/4		
S	9.6	83.7
cut	9.3	84.0
1/4	8.9	84.4
N	8.4	84.9
1/4	7.9	85.4
cut	7.2	86.1
N	7.2	86.1

93.32
E.M. 16122

N	8.1	85.2
cut	7.9	85.4
1/4	8.3	85.0
M	8.7	84.6
1/4	9.2	84.1
cut	9.6	83.7
S	9.8	83.5

E 1/4

S	10.2	83.1
cut	10.0	83.3
1/4	9.5	83.8
M	9.0	84.3
1/4	8.7	84.6
cut	8.0	85.3
N	7.4	84.9

E cut

N	9.2	84.1
cut	10.2	83.1
1/4	9.3	84.0
M	9.4	83.9
1/4	9.8	83.5
cut	10.2	83.1
S	10.4	82.9

93.32
E.L. M. 16122

31

S	10.9	82.4	
cut	10.5	82.8	
1/4	10.4	82.9	
M	10.0	83.3	
1/4	10.0	83.3	
cut	10.8	82.5	
N	10.3	83.0	
T.P. 1156	92.93	11.95	81.37

0425 E of M. 16122

N	12.2	80.7
cut	12.1	80.8
1/4	11.5	81.4
M	11.7	81.2
1/4	11.8	81.1
cut	11.6	81.3
S	11.6	81.3

0450

S	13.3	79.6
104	12.5	80.4
cut	12.5	80.4
1/4	12.8	80.1
M	12.8	80.1
1/4	12.4	80.5
103 cut	12.5	80.4
	14.1	78.8
N	14.1	78.8

92.93

0+75 E of Milkac

N	15.0	77.9
col	14.2	78.7
+0.9	12.7	80.2
1/4	13.1	79.8
1/4	13.0	79.9
1/4	13.1	79.8
col	12.6	80.3
+0.8	12.8	80.1
S	13.7	79.2

17.0

S	12.9	80.0
col	12.6	80.3
1/4	12.6	80.3
1/4	12.5	80.4
1/4	12.5	80.4
col	13.0	79.9
N	14.1	78.8

17.5

N	11.9	81.5
col	11.9	81.0
1/4	11.7	81.2
1/4	11.5	81.4
1/4	11.4	81.5
col	11.4	81.5
S	11.4	81.5

1450

S	9.8	83.1
col	10.4	82.5
1/4	9.9	83.0
1/4	9.9	83.0
1/4	9.8	83.1
col	10.5	82.4
N	10.8	82.1

17.0

N	9.1	83.8
col	8.4	84.5
1/4	8.0	84.9
1/4	8.0	84.9
1/4	7.8	85.1
col	8.1	84.8
+0.8	7.8	85.1
S	7.0	85.9

24.0

S	4.9	88.0
col	5.4	87.5
1/4	5.8	87.1
1/4	6.0	86.9
1/4	6.0	86.9
col	7.0	85.9
N	7.5	85.4

32

92.93

2+25

N		5.5	87.4
carb		4.9	88.0
1/4		4.0	88.9
M		3.2	89.7
1/4		3.3	89.6
carb		3.1	89.8
S		2.5	90.4
T.P.	9.97	101.34	91.33

2+50

S		8.0	92.9
carb		8.8	92.5
1/4		8.9	92.4
M		9.0	92.3
1/4		9.4	91.9
carb		10.4	91.1
N		11.3	90.0

2+74⁸ = 111.38⁴ 51

N		2.0	93.3
carb		6.4	94.9
1/4		6.5	94.8
M		6.0	95.3
1/4		6.0	95.3
carb		5.5	95.8
S		5.3	96.0

Levels for proposed storm drain Wabash see
page 28 for sketch

34

	4.95	24.95	80.00	see of Shaw Bunker
0+0- ϕ	North	4.95	80.0	✓
0+12		4.8	80.2	✓
0+17		6.5	78.5	✓
0+30		6.5	78.5	✓
0+45		6.1	78.9	✓

South

0+0- ϕ		4.95	80.0	✓
0+24		4.8	80.2	✓
0+30		7.2	77.8	✓
0+45		7.9	77.1	✓

Cross-section of 1st St. Maple to Olive (80 wide) ^{1/2 Corn} ^{1/2 Hard} ^{1/2 Hemlock}

	+	-	Elev.
	4.25	228.84	223.99
	No line Maple		
W. Ct		4.8	224.0
		gutr 5.5	223.3
H		5.0	223.8
C		4.2	224.5
H		3.9	224.9
E Ct		gutr 3.7	225.1
		2.8	226.0
	- 25' No.		
E Ct		3.15	225.69
		gutr 3.8	225.0
H		3.9	224.9
C		4.2	224.6
H		5.2	223.4
W Ct		gutr 4.9	222.9
		5.2	223.6
	50' No.		
W. Ct		5.4	223.4
		gutr 6.1	222.7
H		5.0	223.3
C		4.6	224.2
H		4.2	224.6
E Ct		gutr 4.0	224.8
		3.4	225.4
	75' No.		
E Ct		3.7	225.1
		gutr 4.5	224.3
H		4.9	223.9
C		5.2	223.6
H		5.9	222.9
W Ct		gutr 6.3	222.5
		5.7	223.1

	100' No. Maple	
W Ct	6.0	224.8
	gutr 6.6	223.2
H	6.3	222.5
C	6.0	222.8
H	5.1	223.4
	gutr 5.0	223.8
E Ct	3.8	224.19
	125' No.	
E Ct	4.2	224.60
	gutr 5.1	223.7
H	5.9	222.9
C	6.2	222.0
H	6.9	221.9
	gutr 6.9	221.9
W Ct	6.3	222.61
	(50) 145' No. End Ct W side	
W Line	6.0	222.8
Ct	6.3	222.5
	gutr 10.7	218.1
	(140) 145' No.	
W Ct	11.9	216.9
Ct	10.7	218.1
	150' No.	
W	12.2	216.6
Ct	11.1	212.7
H	9.7	219.1
C	7.3	221.5
H	4.9	223.9
E Ct	gutr 5.2	223.6
	4.55	224.2

1st St 80' wide

228.84

158 No Maple

W.L.	12.3	216.5
Ch	14.0	217.8
4	11.5	217.3
C	11.5	217.3
+10	5.4	223.4
4	5.0	223.8
gdr - la. driveway - No. Ch.	5.2	223.6

147' No. End Ch on E Side

Ch	4.56	224.28
E. Line	4.3	224.5

168' No

W.L.	17.7	211.1
Ch	17.0	211.8
4	16.8	212.0
+10	16.6	212.2
C	1.0	214.8

175' No

E	4.7	224.1
Ch	4.9	223.9
+5	4.9	223.9
4	4.6	219.2
C	17.4	211.4
4	17.5	211.3
Ch	19.7	209.1
W	19.8	209.0

Note - Where no slopes are taken fig level from property line elev.

41

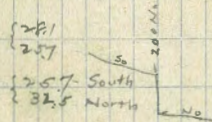
T.P.	5.75	229.46	5.13	223.71
------	------	--------	------	--------

200' No

E	6.0	223.5
+9	6.1	223.4
Ch	9.3	220.2
4	11.5	211.0
C	24.5	205.0
4	25.7	203.6
Ch	27.3	202.2
W	28.1	201.4
50' W	28.7	203.8
	28.7	203.8
	32.5	197.0

225' No

E	5.2	224.3
+6	5.5	224.0
Ch	11.2	218.3
4	20.5	209.0
C	24.8	204.7
4	28.8	200.7
Ch	31.1	198.4
W	34.4	195.1
22' W	37.4	192.1
50' W	37.5	192.0



1st St 80' wide
 22941
 250' No maple

E	2.7	225.8
+2	3.8	225.7
Ch	11.4	218.1
4	17.4	212.1
C	21.8	207.7
W	27.1	202.4
Ch	30.0	199.5
W	30.9	198.6
W	34.9	194.6
SW	41.7	187.8

275 No

E	1.9	222.6
+1	1.9	227.6
Ch	10.0	219.5
4	15.2	214.3
C	18.4	211.1
W	18.5	211.0
Ch	19.5	210.0
W	22.0	207.5
SW	26.6	202.9
T.P.	10.00	233.71
	5.75	223.71

2337 189

37

300 No 50 line Nutmeg

E	42	229.4
Ch	51	228.6
4	133	220.4
C	123	221.4
W	138	219.9
Ch	152	218.1
W	167	217.0
SW	249	208.8

71 No 50 line

E	46	229.1
Ch	45	229.2
4	53	228.4
C	75	226.2
4	91	224.6
Ch	106	223.1
W	100	218.7
SW	235	210.2

50 Ch Nutmeg

E	47	229.0
Ch	42	229.5
4	55	228.2
C	69	226.8
4	81	225.6
Ch	101	223.6
W	140	219.7
SW	212	214.5

1st St 80' wide

So to 233.71
Nutmeg

E	2.8	230.4
Ch	3.0	230.7
W	4.0	229.7
C	5.0	228.7
W	6.2	227.5
Ch	8.3	225.4
W	12.1	221.6
10 W	14.2	219.5

Ch Nutmeg

W	9.0	224.7
Ch	7.1	226.6
W	4.1	227.6
C	4.6	229.1
W	3.9	229.3
Ch	3.6	230.1
E	3.1	230.6

No. 4 Nutmeg

E	34	230.3
Ch	35	230.2
W	37	230.0
C	44	229.3
W	52	228.4
Ch	63	227.4
W	75	226.2

233.70

38

No. Ch Nutmeg

W	67	227.0
Ch	56	228.1
W	47	229.0
C	41	229.6
W	35	230.2
Ch	32	230.3
E	26	230.1

No. line Nutmeg

E	21.16	231.6
	31.52	230.6
Ch	3.1	230.6
W	3.1	230.6
C	2.6	230.1
W	4.1	229.6
Ch	4.8	228.9
W	5.7	228.0
T.P	8.67	238.77
	3.61	230.10

No. 16 Nutmeg

E	58	233.0
Ch	66	232.2
W	70	231.8
C	75	231.3
W	77	231.1
Ch	87	230.1
W	96	229.2

238.77

50' N.

Sutones

W	66	230.2
ct	72	231.6
W	68	232.0
O	66	232.2
W	67	232.1
ct	65	233.3
E	48	234.0

75' N.

E	39	234.9
ct	50	233.8
W	62	232.6
C	65	232.3
W	67	232.1
ct	70	231.8
W	76	231.2

100' N.

W	71	231.7
ct	65	232.3
W	64	232.4
C	59	232.9
W	67	233.4
ct	46	234.2
E	30	235.8

238.8

39

125' N.

E	27	236.1
ct	41	234.7
W	52	233.6
C	58	233.0
W	64	232.7
ct	62	232.5
W	71	231.7

150' N.

W	75	231.3
ct	67	232.1
W	66	232.2
C	60	232.8
W	50	233.8
ct	43	234.5
E	28	236.0

153' N.

W	85	230.3
ct	79	230.9

175' N.

E	24	235.4
ct	45	234.3
W	55	233.3
C	61	232.7
W	70	231.8
ct	81	230.7
W	92	229.6

238.77

200 N Nutmeg

10 W		13.5	225.3
W		12.5	225.3
Ch		12.0	226.8
4		9.1	229.7
C		7.6	231.2
4		6.2	232.6
Ch		5.0	233.8
E		4.0	234.8

203 N

10 W		16.9	221.9
W		16.0	222.8
Ch		12.9	225.9

225 N

E		5.6	233.2
Ch		6.9	231.9
+7		7.6	231.2
4		9.6	229.2
C		14.3	224.5

241

E		7.9	230.9	
Ch		13.0	225.8	
T.P.	0.02	226.09	12.70	226.07

225 N

W 4		4.8	221.3
Ch		6.9	219.2
W		8.6	217.5
10 W			
		8.5 So	217.6
		10.2 No	215.9

226.148

40

250 N

E		4.1	226.0	
Ch		4.2	221.9	
4		7.4	218.7	
C		9.9	216.2	
4		12.9	213.2	
Ch		15.0	211.1	
W		15.9	209.2	
25 W		22.2	203.9	
T.P.	0.46	213.57	12.98	213.11

275 N

25 E		1.6	212.0	
E		3.1	210.5	
Ch		5.0	208.6	
4		6.3	207.3	
C		9.2	204.4	
4		10.8	202.8	
Ch		12.9	200.7	
W		15.6	198.0	
25 W		23.4	190.2	
T.P.	1.06	201.74	12.89	200.68

201 N S Line Olive

25 E		5.1	196.6
E		6.0	195.7
Ch		7.5	194.2
4		9.1	192.6
C		11.2	190.5
4		12.3	189.4
Ch		14.3	187.4
W		17.5	184.1
25 W		24.3	177.4

Plan No. 2
 Cross-Section of 1st St. From 125' No of Maple
 to So. line Olive St.

Note: South of Nutmeg St. 1st St is 65' wide - 15' taken off at west
 side. 14' Sidewalk on E. Side & 5' Sidewalk on West - quarters 11.5'
 North of Nutmeg St is 50' wide - 15' taken off each side - Sidewalk 5' quarters 10'

295 226.94 222.99 NW 1/4 Maple

125' No Maple

E	2.0	224.9
cl	2.33	224.6
gutr	3.1	223.8
4	3.9	223.0
C	4.8	222.1
4	4.9	221.0
cl	4.8	221.1
W	5.1	221.8

150' No

10' W	10.1	216.8
W	9.2	217.7
cl	9.2	217.7
4	7.2	219.7
C	4.8	221.1
4	3.2	223.7
gutr	3.3	223.6
cl	2.65	224.3
E	2.1	224.8

226.9 249.

See Book 1008
 Grades - Bk 91 41

158' No

10' W	9.7	217.2
W	9.0	217.9
cl	8.8	218.1
4	9.9	217.0

168' No

15' W	15.9	211.0
W	15.1	211.8
cl	14.9	212.0
4	14.8	212.1
+6	14.8	212.1
C	11.2	215.7

158' No

ctr	8.5	218.4
+7	2.5	223.4
4	2.8	224.1
gutr	3.0	223.6

167' No End Ch. E. Side

E	2.1	224.5
cl	2.66	224.2

175' No

E	2.8	224.1
cl	3.0	223.9
4	3.0	223.9
4	6.8	220.1
C	14.6	212.3

22690

175 No Maple

W4		164	210.5
Ch		172	209.7
W		176	209.3
15 W		178	209.1
T.P	6.21	219.2	223.71

200 No

E		6.5	223.4
+9		6.6	223.3
Ch		9.7	220.2
4		12.0	211.9
C		24.8	205.1
4		26.0	203.9
Ch		27.7	202.2
W		27.9	202.0
15 W		28.8	201.1

228 No

E		5.6	224.3
+6		5.9	224.0
Ch		11.6	218.3
W		20.0	209.9
C		24.5	205.4
4		28.0	201.9
Ch		30.1	199.8
W		31.0	198.9
25 W		36.0	193.9

229949

42

25 No Nutmeg

E		4.1	225.8
+2		4.3	225.6
Ch		11.8	218.1
4		17.1	212.8
C		21.0	208.9
4		25.8	204.1
Ch		29.9	200.0
W		30.4	199.5
25 W		32.7	197.2

275 No

E		2.3	227.6
+1		2.3	227.6
Ch		10.4	219.5
4		10.5	214.4
C		18.9	211.0
4		20.0	209.9
Ch		19.8	210.1
W		19.9	210.0
25 W		24.8	205.1

T.P. 5.30 234.54 0.68 229.24

300 No S-Line Nutmeg

E		5.2	229.3
Ch		5.9	228.6
4		14.0	220.5
C		14.3	221.2

23454
5. Line Nutmeg

W-4	15.9	218.6
Ch	17.2	217.3
W	17.0	217.5
2.5 W	21.9	212.6

7' No. 5. Line

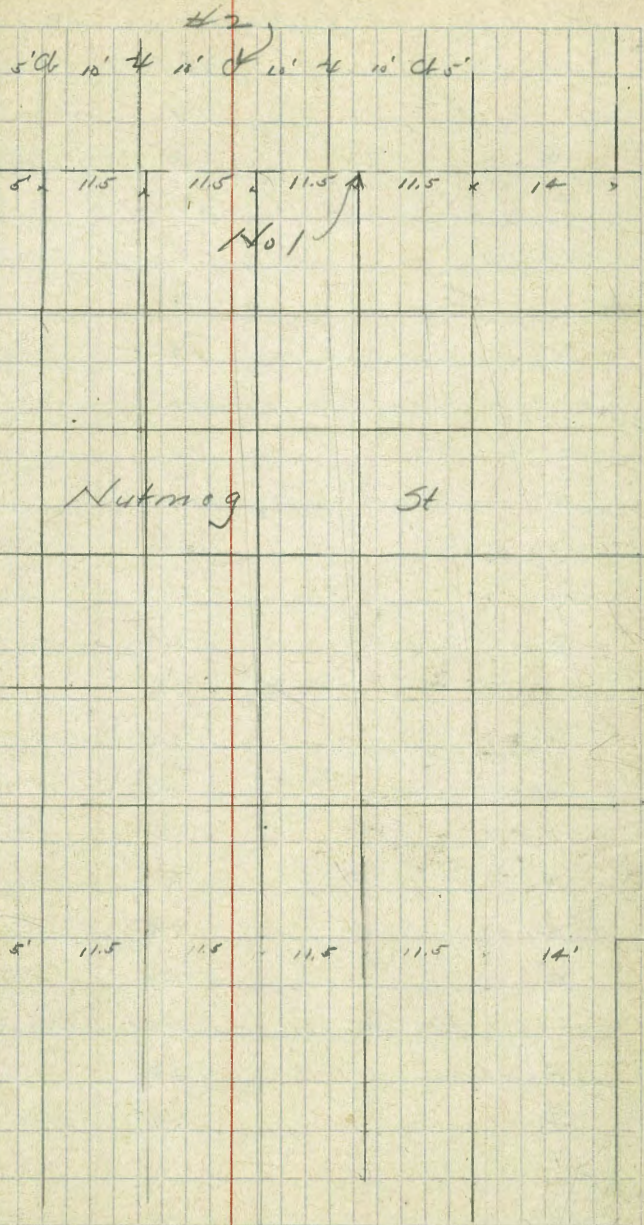
E	5.4	219.1
Ch	5.3	219.2
4	6.8	227.7
C	7.6	226.9
4	10.6	223.9
Ch	11.2	223.3
W	11.5	223.0

3. Ch. Nutmeg

W	10.8	223.7
Ch	9.9	224.6
4	8.3	226.2
C	7.6	226.9
4	6.5	228.0
Ch	5.0	229.5
E	5.5	229.0

5.0 4 Nutmeg

E	4.1	230.4
Ch	3.8	230.7
4	4.6	229.9
C	5.4	229.1
4	6.5	228.0
Ch	8.0	226.5
W	8.6	225.8



234.54

Ch Nutmeg

W	7.8	226.7
Cl	7.4	227.1
W	5.9	228.6
O	5.6	228.9
W	4.7	229.8
Cl	4.3	230.2
E	3.9	230.6

No. 4 Nutmeg

E	4.3	230.2
Cl	4.3	230.2
W	4.5	230.0
C	5.0	229.5
W	5.7	228.8
Cl	4.7	227.8
W	7.1	227.4

No. Ch.

W	6.3	228.2
Cl	6.1	228.4
W	5.4	229.1
C	5.0	229.5
W	4.4	230.1
Cl	4.2	230.3
E	4.5	230.0

#1 No. line Nutmeg - (Int) 65' wide

E	3.8	230.7
Cl	3.9	230.6
W	3.9	230.6
C	4.3	230.2
W	4.8	229.7
Cl	5.2	229.3
W	5.7	228.8

23454 54

44

#2 No. line Nutmeg 50' wide

E	3.8	230.7
Cl	3.8	230.7
W	3.9	230.6
C	4.5	230.0
W	4.8	229.7
Cl	5.2	229.3
W	5.7	228.9

50' No.

W	4.4	230.1
Cl	4.1	230.4
W	3.2	231.3
Cl	2.2	231.3
W	2.8	231.7
Cl	2.0	231.5
E	2.6	231.9

50' No

E	1.5	233.0
Cl	2.3	232.2
W	2.5	232.0
C	2.3	232.2
W	2.4	232.1
Cl	2.0	231.5
W	3.2	231.3

234.50

75 No.

W	2.7	231.8
Ch	2.6	231.9
U	2.1	232.4
O	2.2	232.9
U	1.9	232.6
Ch	1.5	233.0
E	0.9	233.6

100 No.

E	0.5	234.0
Ch	1.0	233.5
U	1.2	233.3
C	1.6	232.9
W	2.0	231.5
Ch	2.2	232.3
W	2.2	232.3

125 No.

W	2.1	232.4
Ch	2.0	232.5
U	1.7	232.8
C	1.5	233.0
U	1.1	233.4
Ch	0.6	233.9
E	0.1	234.4
T.P	2.13	237.15
	0.52	234.02

237.2 0.9

45

150 No.

E	2.9	234.3
Ch	2.0	234.2
U	2.4	233.8
O	4.4	232.8
U	4.8	232.4
Ch	5.0	232.2
W	5.1	232.1

175 No.

W	6.5	230.7
Ch	6.0	231.2
U	5.1	232.1
C	4.5	232.7
U	4.0	233.2
Ch	3.2	234.0
E	2.5	232.7

200 No.

E	3.6	233.6
Ch	4.0	233.2
U	4.9	232.3
C	6.0	231.2
W	7.0	230.2
Ch	9.3	227.9
W	10.1	227.1

237.15
225.10

E			52	232.0
cl			57	231.5
4			86	228.6
C			126	224.6
T.P	003	225.10	1799	224.6
4			22	222.0
cl			39	220.3
W			47	219.5

220.10

W			129	211.3
cl			123	212.2
4			102	213.9
C			82	216.0
4			63	217.9
cl			40	220.2
E			24	221.8
T.P	007	211.21	1205	211.14

215.10

E			29	208.3
cl			33	207.9
4			41	207.1
C			68	204.4
4			80	203.2
cl			89	202.3
W			101	201.1

211.2

46

201.14. 6 Line Olive

W			238	187.4
cl			230	188.2
4			214	189.8
C			209	190.3
4			190	192.2
cl			171	194.1
E			163	194.9

Levels for Proposed storm drain - sketch opp page

1/29/15
Bunkle
Shaw
Bunker

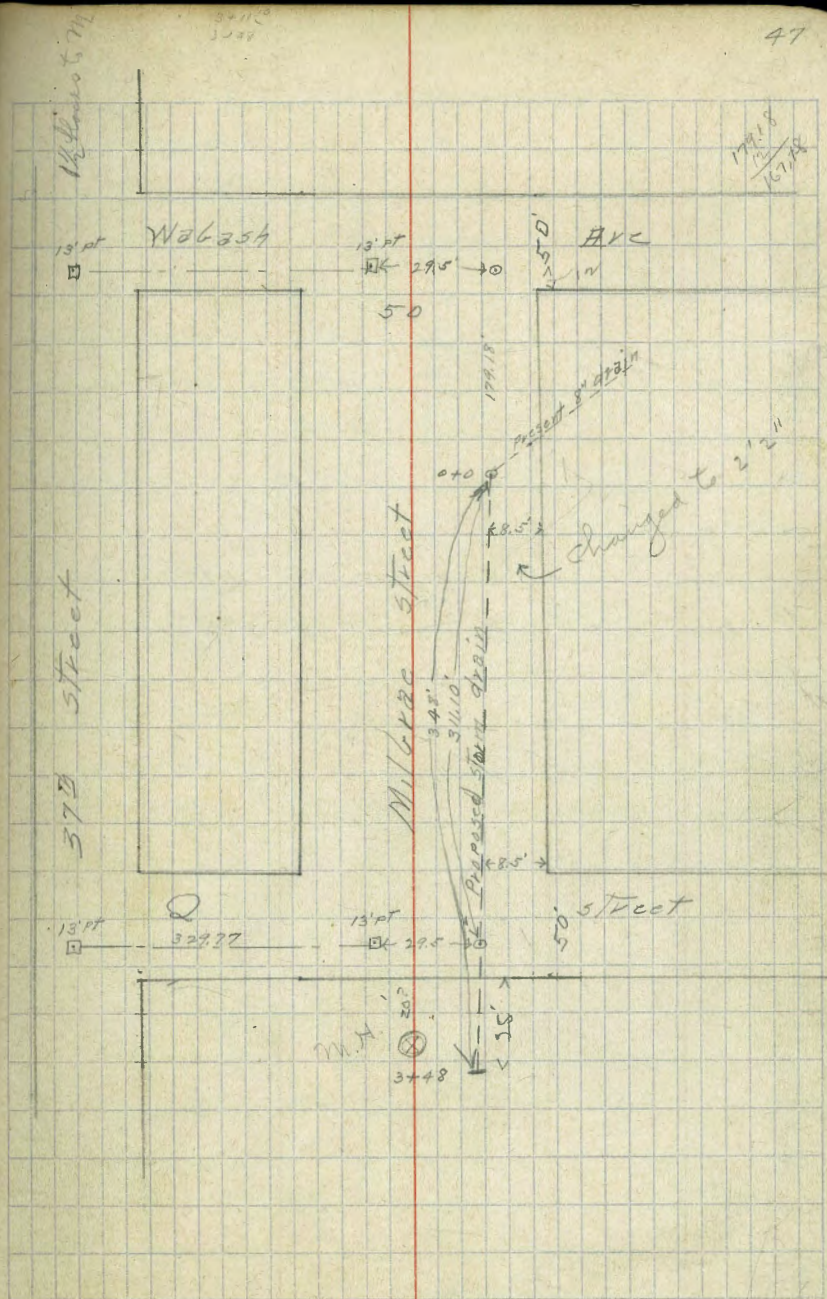
B.M.	9.20	91.76	87.56
T.P.	0.36	79.07	13.05
Bottom of Pipe			78.71
0+0 = I.T. present drain line 25' W of E.L. Millers		10.63	68.44
0+0 ground		8.4	70.7
+25 south		9.8	69.3
+50		10.9	68.2
+75		11.6	67.5
1		12.4	66.7
T.P.	1.45	67.74	12.58
+25		2.5	65.4
+50		3.5	64.4
+75		4.2	63.7
2		4.5	63.4
+25		4.9	63.0
+50		5.8	62.1
+75		6.7	61.2
3		6.9	61.0
+11 ⁰ = 13 Line 2 of		7.5	60.4
+25		7.9	60.0
+44		9.1	58.8
+48		10.3	57.6

+53 no al. 576

+63 586

up about
10 ft

see next
page



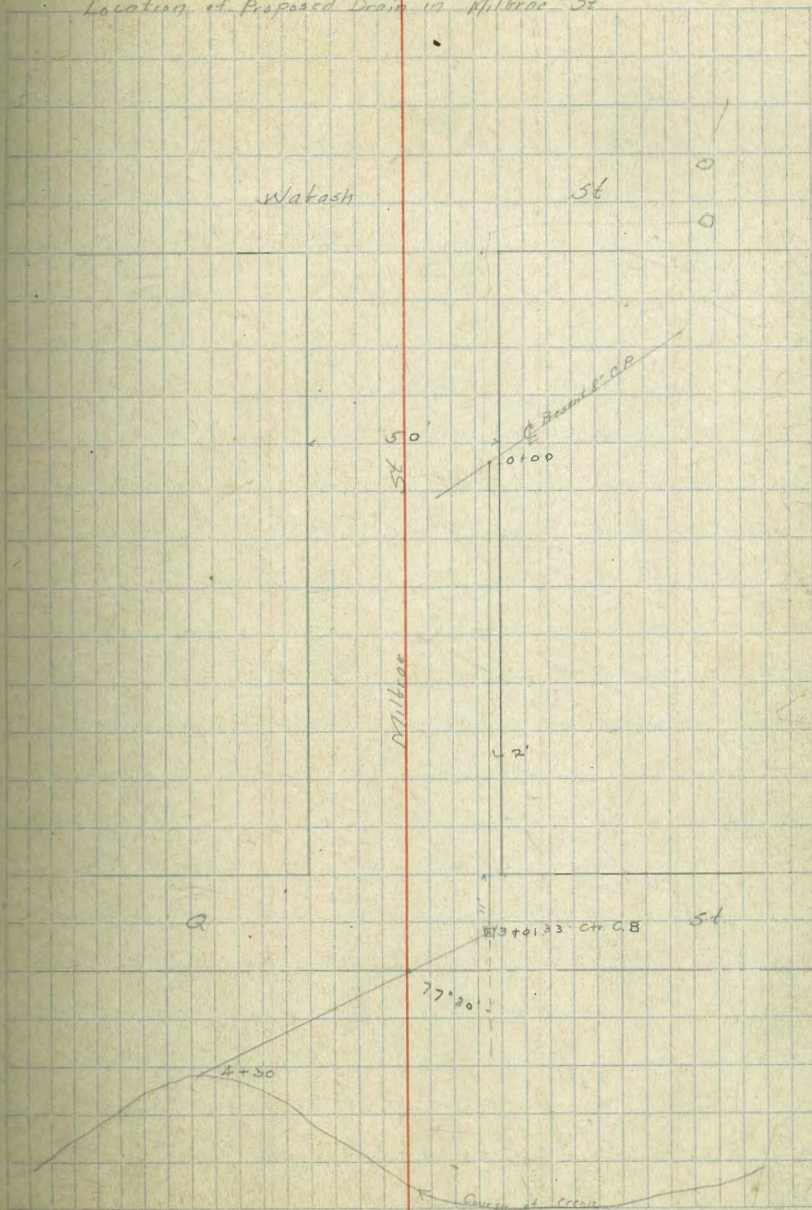
Levels over Proposed Milkree St Drain

$\frac{1}{2}$ S. Davis
16

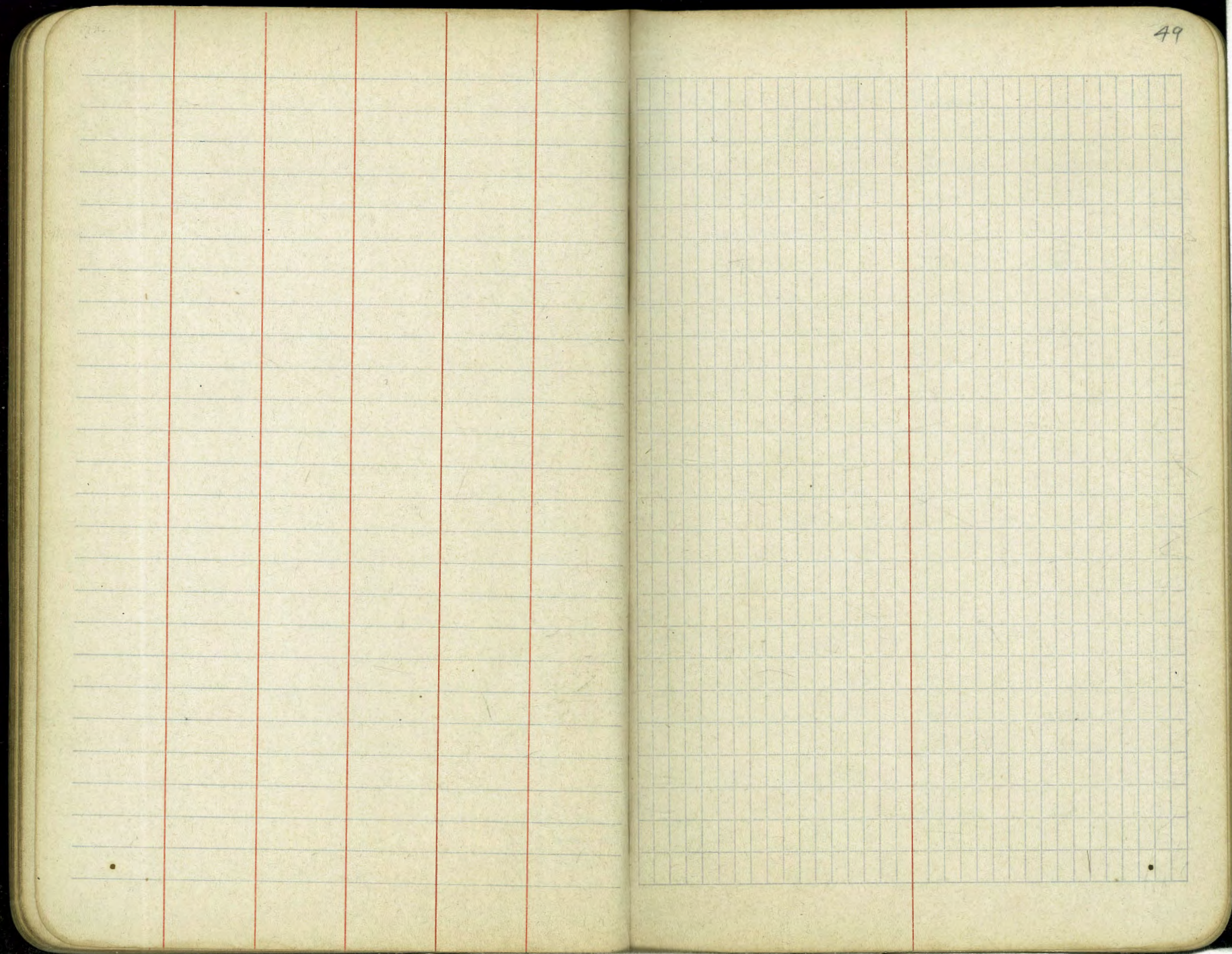
	4.48	100.26		95.72 RR S.W. 1/4 Sec 18 N.E. 37.11.17
T.P	0.56	11.30	12.52	27.74
T.P	0.64	75.96	12.98	75.32
0+00			{ 6.48.77.11	69.48
			{ 4.0.0.00	71.9
1.50			7.2	68.7
1			8.9	67.1
+50			11.1	64.9
2			12.5	63.5
T.P	2.62	65.91	12.67	62.29
+50			3.1	62.8
3			5.0	60.9
+0123 C.12			4.7	61.2
1.50			-8.2	57.7
4			11.1	54.8
+30			12.0	53.9
E.M. Spic Tol pole S.E. Milkree & Q			5.64	60.27

Location of Proposed Drain in Milkree St

1103 48
395
1.5.05



8/2/58



4/6/16 Gregory Miller

CROSS-SECTION OF LARK ST (80' wide from S.L. of Marine View to N.E. of Middle town)

on B.M.	0.48	266.04	265.56	N. Lark + Pufferbox
on hub		12.77	253.27	hub S.L. Marine View + E.L. Lark
S.L. Marine View				
E		12.7	253.3	
+10		13.4	252.6	
ct		13.1	252.6	
+3.5		13.3	252.7	
+11		13.2	252.7	
1/4		12.2	253.8	
T.P.	0.52	253.60	12.96	253.09
+5.5		14.8	248.8	
C		10.5	243.1	
+10		17.3	236.3	
1/4		18.2	235.4	
ct		25.6	228.0	
W		30.2	223.4	
+10		32.0	220.6	
+20		37.7	215.0	
+45		51.2	202.4	
+80		63.4	190.2	
+95		66.0	187.6	
10' 50'				
-100		69.3	184.3	
-65		61.3	192.3	
-45		53.9	199.7	
-25		42.6	211.0	

LARK ST. 10

-10	36.5	217.1
W	35.2	218.4
ct	27.7	225.9
1/4	19.2	234.4
+3	17.5	236.1
C	12.7	240.9
+7.5	7.2	246.4
1/4	1.8	252.8
+2	1.2	252.4
+9.5	1.2	252.2
ct	1.5	252.1
+1	1.8	251.8
E	0.7	252.9
20' 50'		
E	1.4	252.2
+10	2.1	251.2
ct	2.1	251.5
+3.5	2.1	251.5
+11	2.5	251.1
1/4	3.8	249.8
+5.5	4.9	245.9
C	13.3	240.5
+10	20.0	235.6
1/4	21.6	232.0
ct	29.3	221.3

Note check extensions before using G.P.M.

253.60

N	38.2	215.4 ✓
+20	45.9	207.7
+40	53.7	199.9
+55	59.7	193.9
+80	66.5	187.1
+110	72.3	181.3
	26' 50.	
-110	73.3	180.3
-80	66.7	186.9
-60	61.3	192.3
-40	55.3	198.3
-20	47.6	206.0
-10	44.0	209.6
N	37.7	215.9 ✓
cb	29.4	224.2
1/4	22.2	231.4
+3	20.3	233.3
C	15.4	240.2 ✓
+7.5	8.4	245.7
1/4	4.7	248.6
+2	3.3	250.3
+9.5	2.6	251.0
cb	2.5	251.7
+4	2.0	251.0
E	1.9	251.7 ✓

LARK ST. 51

35' 50.

E	27	250.9 ✓
+10	32	250.4
cb	3.4	250.2
+3.5	3.5	250.1
+11	3.9	249.7
1/4	4.7	248.9
+5.5	8.0	245.6
C	11.6	242.0 ✓
+10	17.3	236.9
1/4	19.2	234.4
cb	25.8	227.8
T.P.	39.4	250.38 ✓
N	29.1	221.6 ✓
+20	43.4	207.2
+45	54.2	196.4
+65	60.6	190.0
+80	64.7	185.9
+100	69.0	281.6
	50' 50.	
-100	70.5	180.1
-75	64.8	185.8
-41	48.4	202.2
-16	37.1	212.5
N	28.2	222.5 ✓
cb	19.4	231.2

1/2		13.8	236.8
+3		(12.6)	238.0
C		8.9	241.8 ✓
+7.5		6.6	244.0
1/4		3.6	247.0
+2		2.5	248.1
+9.5		(1.7)	248.9
cl		1.7	248.9
+4		1.6	249.0
E		1.0	249.7 ✓
	60' 50.		
E		2.0	248.7 ✓
+10		(2.5)	248.1
cl		2.6	248.0
+3.5		2.8	247.8
+11		(5.6)	245.0
1/4		5.9	244.7
5.5		(7.7)	242.9
C		9.3	241.4 ✓
+10		(12.2)	238.2
1/4		13.6	237.0
cl		15.7	231.9
W		25.8	224.9 ✓
+19		37.2	213.4
+30		44.0	206.6
+50		52.3	198.3

+63		56.6	194.0
+95		71.1	179.5
+105		73.0	177.6
	70' 50.		
-105		73.5	177.1
-97		73.3	177.3
-65		58.0	192.6
-40		50.0	200.6
-23		42.0	208.6
W		26.0	224.7 ✓
cl		18.9	231.9
1/4		13.5	237.1
+3		(12.6)	238.0
C		9.8	240.9 ✓
+4.5		8.5	242.1
1/4		6.8	243.8
+2		(6.0)	244.6
+9.5		(4.9)	245.7
W		4.7	245.9
+1		(4.0)	246.6
E		3.8	246.9 ✓
	80' 50.		
E		5.0	245.7 ✓
+10		(6.2)	244.4
cl		6.4	244.2

+3.5	(7.4)	243.2
+11	(7.9)	242.7
$\frac{1}{4}$	8.2	242.4
+5.5	(9.3)	241.3
C	11.0	239.7 ✓
+10	12.8	237.8
$\frac{1}{4}$	13.6	237.0
db	17.1	233.5
W	23.6	227.4 ✓
+10	28.9	221.9
+20	39.2	213.4
+45	51.4	199.2
+65	58.7	191.9
+80	64.4	186.2
+98	73.5	177.1
+105	74.5	176.1
	100 So.	
-105	72.4	178.2
-80	63.8	186.8
-65	57.6	193.0
-30	39.0	213.6
W	21.0	229.7 ✓
+5	18.8	231.8
db	16.4	234.2
$\frac{1}{4}$	13.9	236.7
+3	13.5	237.1

C	12.6	239.1 ✓
+7.5	(11.4)	239.2
$\frac{1}{4}$	10.9	239.7
+2	(10.5)	240.1
+9.5	(9.2)	241.4
db	9.0	241.6
+4	(8.2)	242.4
E	7.2	243.5 ✓
	115 So.	
E	8.8	241.9 ✓
+10	(9.7)	240.9
db	10.1	240.5
+3.5	(10.6)	240.0
+11	(11.9)	238.7
$\frac{1}{4}$	12.4	238.2
+5.5	13.2	237.4
C	14.0	236.7 ✓
+10	(15.5)	235.1
$\frac{1}{4}$	16.1	234.5
db	18.3	232.3
W	21.5	229.2 ✓
+20	30.0	220.6
+27	32.0	218.6

250.68

125' 50

-25		29.6	221.0
-15		28.1	225.5
W		23.1	227.5 ✓
cb		19.4	231.2
1/4		16.8	233.8
+3		(15.9)	234.7
C		15.0	235.7 ✓
+7.5		14.2	236.4
1/4		13.1	237.5
+2		(12.9)	237.8
+4.5		(11.5)	239.1
cb		11.1	239.5
+4		(10.5)	240.1
E		9.5	241.2 ✓
150' 50			
E		11.0	239.7 ✓
+10		(12.9)	237.7
TP	0.71	239.06	238.35 ✓
cb		1.8	237.26
+3.5		(2.7)	236.36
+11		(3.2)	235.26
1/4		4.1	234.36
+5.5		4.9	234.16
C		5.7	233.4 ✓
+10		7.2	231.86

LARK ST. 54

1/4		7.9	231.1
cb		11.4	227.6
W		14.9	224.4 ✓
+2		15.0	224.0 = top of wall
+2		17.2	221.8 = bot. of wall + top of cement walk
+12		17.0	222.0
156' 50			
-10		17.0	222.0 = at house
W		(17.1)	222.0 = bot. of wall
		15.0	224.1 = top of wall
cb		11.9	227.1
1/4		9.2	229.8
+3		8.4	230.6
C		5.9	233.2 ✓
+7.5		(5.0)	233.6
1/4		4.6	234.4
+2		(4.2)	234.8
+9.5		(3.1)	235.9
cb		2.3	236.7
+4		(1.8)	231.2
E		0.0	239.1 ✓
175' 50			
E		1.9	237.2 ✓
+10		(3.4)	235.6
cb		3.8	235.2

+3.5	4.3	234.7	
+11.	5.1	233.9	
$\frac{1}{4}$	5.7	233.3	
+5.5	(7.2)	231.8	
C	8.5	230.6	✓
+10	(10.6)	228.4	
$\frac{1}{4}$	11.1	227.9	
cb	15.2	223.8	
+7.5	17.0	222.0	
W	17.6	221.5	✓
+16.0	22.2	216.8	= house
	200 So		
-35	30.0	209.0	
W	20.9	218.2	✓
cb	17.0	222.0	
$\frac{1}{2}$	13.5	225.5	
+3	(12.7)	226.3	
C	10.0	229.1	
+7.5	(8.8)	230.2	
$\frac{1}{4}$	7.2	231.8	
+2	(6.8)	232.2	
+9.5	(5.4)	233.6	
cb	4.8	234.2	
+4	(4.0)	235.0	
E	3.3	235.8	✓

225 So.

E	4.0	235.1	✓
+10	(5.5)	233.5	
cb	6.4	232.6	
+35	(7.2)	231.8	
+11	(9.3)	239.7	
$\frac{1}{4}$	9.8	229.2	
+55	10.8	228.2	
C	12.6	226.5	✓
+10	(16.2)	222.8	
$\frac{1}{4}$	17.0	222.0	
cb	21.2	217.8	
W	24.4	214.7	✓
+25	30.7	208.5	
+40	33.7	205.3	
	257500E) 2588-W) =	N.L. Willowst 80mide	
-35	39.0	200.0	
-27	34.4	204.6	
W	27.3	211.8	✓
cb	24.7	214.3	
$\frac{1}{2}$	20.8	218.2	
+3	(19.8)	219.2	
C	16.5	222.6	✓
+7.5	(14.1)	224.9	
$\frac{1}{2}$	12.8	226.2	
+2	(12.4)	226.6	

+9.5		(11.0)	228.0
cb		10.0	229.0
+4		(8.9)	230.1
F		6.1	233.0 ✓
No. Curb.			
F		7.7	231.4 ✓
+10		(10.4)	228.6
cb		11.5	227.5
+3.5		(12.5)	226.5
+11		(14.8)	224.2
1/4		15.2	223.8
+5.5		(17.0)	222.0
C		18.9	220.2 ✓
+10		(21.8)	217.2
1/4		22.6	216.4
cb		26.2	212.8
W		29.4	209.7 ✓
+15		33.0	206.0
+30		40.1	198.9
No. Quarter			
-80		61.0	178.0
-60		60.7	178.3
-15		33.6	205.4
W		30.1	209.0 ✓
cb		27.4	211.6
1/4		24.1	214.9

13		(23.2)	215.8	
C		20.7	218.4 ✓	
+7.5		(18.7)	220.3	
1/4		17.2	221.8	
+2		(16.6)	222.4	
+9.5		13.8	225.2	
cb		12.9	226.1	
1/4		(11.5)	227.5	
F		8.8	230.3 ✓	
T.P.	0.0	229.09 ✓	9.97	229.09 ✓
Center				
E		0.1	229.0 ✓	
+10		(2.5)	226.6	
cb		3.9	225.2	
+3.5		(5.1)	224.0 ✓	
+11		(7.7)	221.4	
1/4		8.4	220.7	
+5.5		(10.1)	219.0	
C		11.8	217.3 ✓	
+10		(14.0)	215.1	
1/4		14.8	214.3	
cb		18.3	210.8	
W		20.9	208.2 ✓	
+22		26.6	202.5	
+50		42.8	186.3	

+70	56.5	172.6
+80	58.3	170.8
So. Quarter		
-32	33.3	195.8
-22	27.3	201.8
W	22.3	206.8 ✓
cb	19.2	209.9
1/4	16.1	213.0
+3	(15.4)	213.7
C	12.8	216.3 ✓
+7.5	(10.5)	218.6
1/4	9.0	220.1
+2	(8.1)	221.0
+9.5	(6.1)	223.0
cb	5.0	224.0
+4	(3.8)	225.3
E	1.0	228.1 ✓
So. Curb		
E	2.3	226.8 ✓
+10	(4.7)	224.4
cb	5.6	223.5
+3.5	(6.5)	222.6
+11	(7.9)	221.2
1/4	8.6	220.5
+5.5	(10.1)	219.0

C	13.3	215.8 ✓
+10	(16.1)	213.0
1/4	16.9	212.2
cb	19.7	209.4
W	23.3	205.8 ✓
+25	30.0	199.1
So. Line of Willow		
-25	30.7	198.4
-15	28.4	200.7
W	22.8	206.3 ✓
cb	20.7	209.0
1/4	17.3	211.8
+3	(16.5)	212.6
C	13.4	215.7 ✓
+7.5	(10.5)	218.6 ✓
1/4	8.7	220.4
+2	(8.2)	220.9
+9.5	(6.6)	222.5
cb	6.1	223.0
+4	(5.3)	223.8
E	3.4	225.7 ✓
25' So.		
E	3.8	225.3 ✓
+10	(6.1)	223.0
cb	6.8	220.3

229.09

+3.5	(7.6)	221.5
+11	(9.2)	219.9
1/4	9.6	219.5
5.5	(11.0)	218.1
C	12.9	216.2 ✓
+10	(16.1)	213.0
1/4	17.0	212.1
cb	20.7	208.4
W	24.6	204.5 ✓
+15	29.1	200.0
+30	33.7	195.4

50' So.

-30	34.6	194.5
W	25.2	203.9 ✓
cb	21.1	208.0
1/4	16.4	212.7
+3	(15.1)	213.7
C	13.3	215.8 ✓
+7.5	(11.5)	217.6
1/4	10.4	218.7
+2	(10.2)	218.9
+9.5	(8.4)	220.7
cb	7.8	221.3
+4	(7.3)	221.8
E	5.1	224.0 ✓

LARK ST.

58

75' So.

E	5.5	223.6 ✓
+10	(7.3)	221.8
cb	7.8	221.3
+3.5	(8.6)	220.5
+11	(10.3)	218.8
1/4	10.6	218.5
+5.5	(11.6)	217.5
C	12.9	216.2 ✓
+10	(14.7)	214.4
1/4	15.3	213.8
cb	20.0	209.1
W	24.6	204.5 ✓
+20	30.5	198.6
+40	37.2	191.9

93.05' So. = 500.4'

-30	34.4	194.7
-15	28.0	201.1
W	23.7	205.4 ✓
cb	19.0	210.1
1/4	15.1	214.0
+3	(14.4)	214.7
C	12.8	216.3 ✓
+7.5	(11.6)	217.5
1/4	10.5	218.6
32	(10.1)	219.0

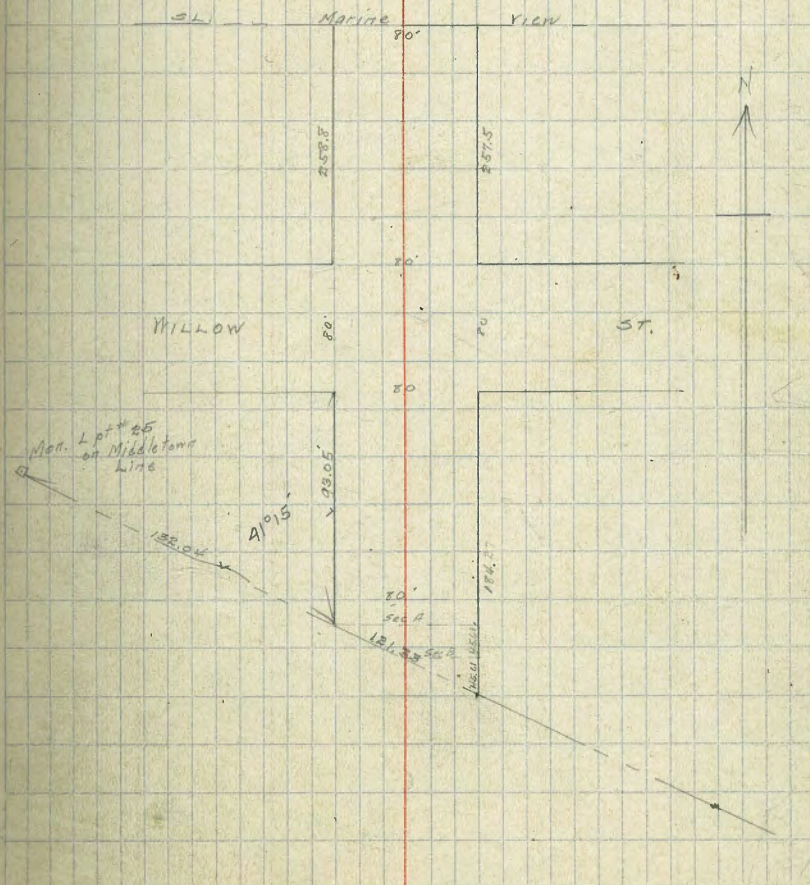
229.09

+95	(9.0)	220.1
cb	7.8	221.3
+4	(6.7)	222.4
E	4.3	224.8 ✓
180' So. of Willow		
E	4.6	224.5 ✓
+10	(6.3)	222.5
cb	7.0	222.1
+35	(7.5)	221.6
+11	(8.6)	220.5
1/4	9.0	221.1
+55	(10.1)	219.0
C	11.7	217.4 ✓
+10	(13.3)	215.8
1/4	13.6	215.5
134 1/2' Middletown line		
	14.9	214.2
Sec. B		
C	10.4	218.7 ✓
+7.5	(9.1)	220.0
1/4	7.3	220.8
+2	(8.0)	221.1
+95	(6.7)	222.4
cb	6.2	222.9
+4	(5.6)	223.5
E	3.1	226.0 ✓

LARK ST. 59

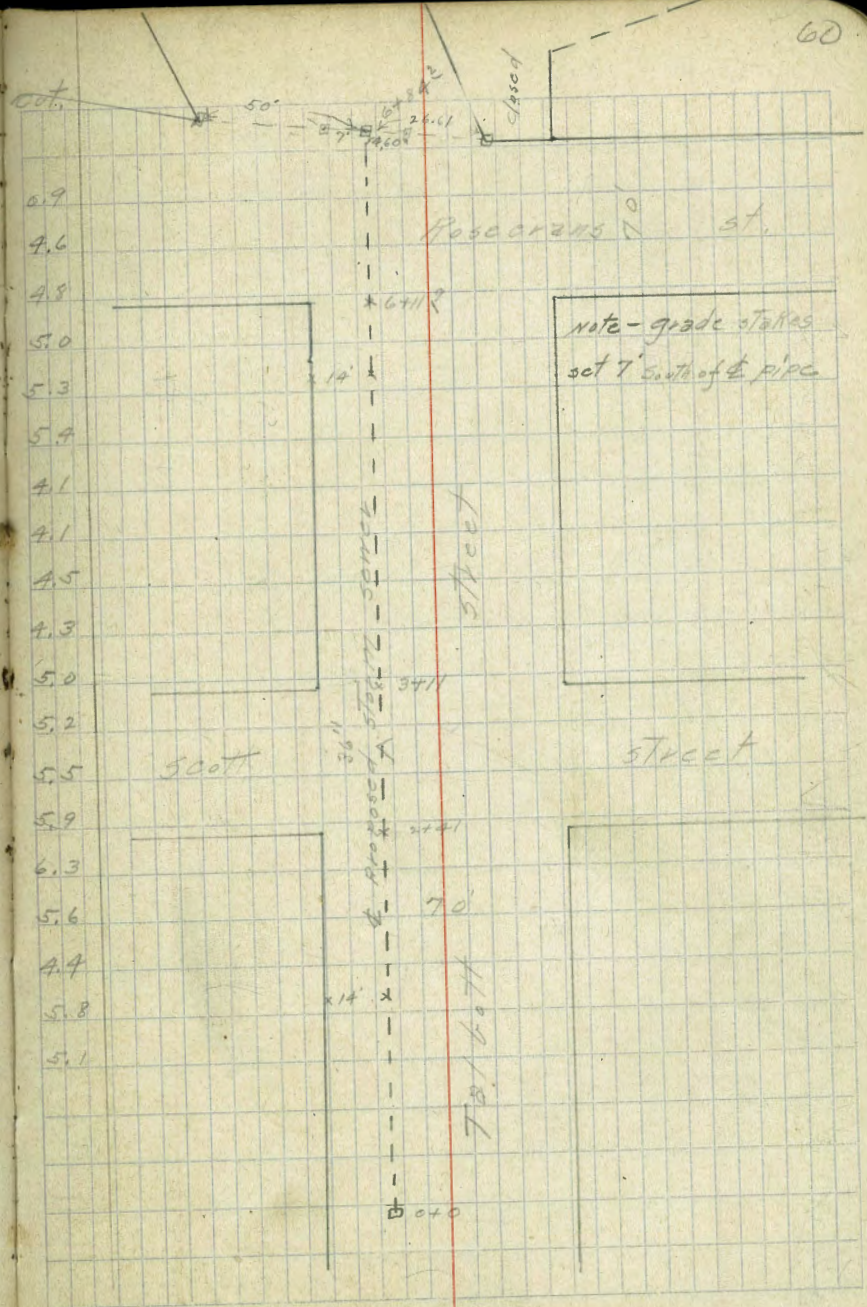
Int. E.L. LARK with Middletown Line

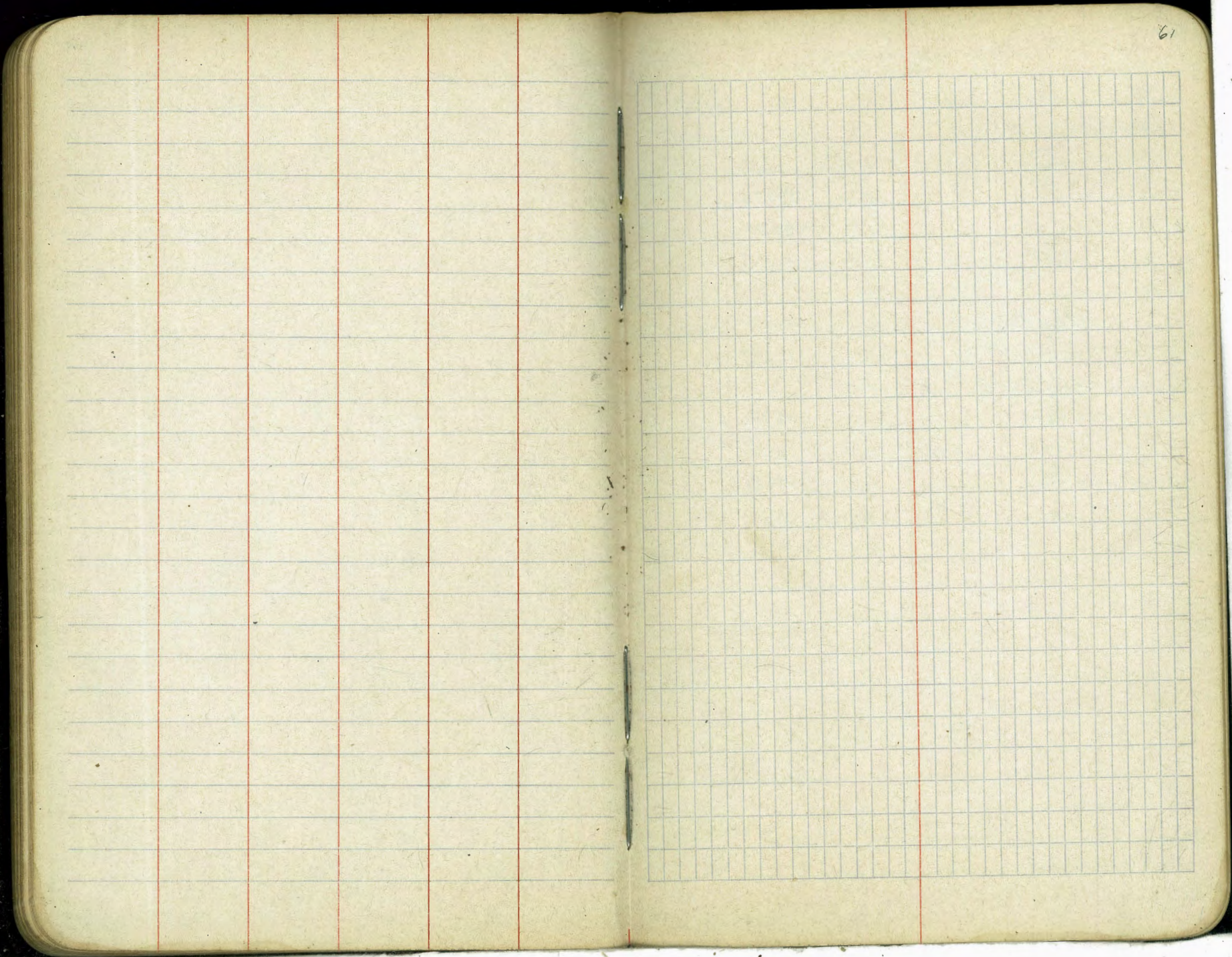
E			1.2	227.9 ✓
T.P.	13.14	242.23 ✓	00	229.09 ✓
T.P.	12.71	253.70 ✓	1.24	240.99 ✓
T.P.	12.82	265.91 ✓	0.61	253.09 ✓
on R.M.			0.35	265.56 ✓



Levels for proposed storm sewer - opp page 4

Point	2.48	23.80	21.32	grade
R.M. Man N.E. Talbot & Rosecrans				
T.P.	7.20	13.28	11.08	
0.0		15.39	-2.11	-3.00
+50		10.30	2.98	-1.64
1		8.78	4.50	-0.77
+50		7.16	6.12	+1.09
2		5.54	7.74	2.46
+11 = E.L. Scott		4.30	8.98	3.58
+50		5.34	7.94	3.82
3		4.00	9.28	5.19
+11 = W.L. Scott break in grade		3.23	10.05	5.50
+50		2.20	11.08	6.80
T.P.	12.57	25.11	12.52	
4		11.70	13.41	8.46
+50		9.76	15.35	10.13
5		7.78	17.33	11.59
+50		5.75	19.36	13.46
6		3.71	21.40	15.12
+21 = E. Curline Rosecrans		3.63	20.98	15.25
+56 = W. rail bottom of tie		3.7	21.4	17.00
+60		3.23	22.88	17.12
+84 = W.L. Rosecrans		2.11	23.00	17.92





8/21/16
 Gregory
 Moore
 Miller

LEVELS ON 10th ST
 from University Ho.
 To Determine grade points

All distances taken from N.L. Univ. Ave. west of 10th

B.M.	230 curb	289.39	282.00	5110 th Univ
N.L. Univ. Ave. N.E. 10 th	6.62		282.77	on cement
✓ - - - E. L. ✓	5.95		283.44	✓ -
100' No. of Univ. Ave. ✓	5.63		283.76	✓ -
150' ✓ - - - ✓ - -	5.13		284.76	- -
200' ✓ - - - N.C. ✓ -	4.98		284.41	✓ ✓
230' ✓ - - - ✓ - -	4.82		284.57	✓ -
248' - - - 103' E. of E.L. 10 th	4.80		284.59	on walk to house
300' - - - N.C. L. 10 th	5.41		283.98	on cement
337' - - - 104' E. of E.L. 10 th	5.56		283.83	on walk to house
380.5' - - - N.C. L. 10 th	6.13		283.26	End of Walk
T.P.	4.25	287.93	571	283.68
20' North Hendricks E.L. of 10	8.60		279.33	top step

Sidewalk on West Side 10th 5' wide

3/23/16
Gregory
Miller

CROSS SECTION OF HENDRICKS ST. 60' wide
from E.L. 10th to N.L. Vermont
10' walks
10' guard

BM	730	279.59	282.09	57.10 - 10th
T.P.	263	287.91	283.68	57.10 - 10th
E.L. 10th ST				
S		41	283.2	
cb		41	283.2	
1/4		42	283.1	
c		45	282.8	
1/4		49	282.4	
cb		56	281.7	
N		61	281.2	
(77.06 E on 50. 100' E call = Section A)				
N		61	281.2	
cb		55	281.8	
1/4		51	282.2	
c		46	282.7	
1/4		44	282.9	
cb		43	283.0	
S		42	283.1	
25' E of SEC. A				
S		44	282.9	
cb		46	282.7	
1/4		48	282.5	
c		48	282.5	
1/4		57	282.2	
cb		56	281.9	
N		58	281.5	

HENDRICKS

		50' E	
N		51	282.2
cb		54	281.9
1/4		49	282.4
c		46	282.7
1/4		43	283.0
cb		43	283.0
S		41	283.2
		75' E	
S		40	283.3
cb		43	283.0
1/4		45	282.8
c		48	282.5
1/4		51	282.2
cb		58	281.5
N		57	281.6
		100' E	
N		57	281.6
cb		54	281.9
1/4		51	282.2
c		46	282.7
1/4		43	283.0
cb		41	283.2
S		43	283.0
		125' E	
S		42	283.1

287.31

dt	45	282.8 ✓
1/4	45	282.8 ✓
c	47	282.6 ✓
1/4	48	282.5 ✓
dt	49	282.4 ✓
N	57	281.6 ✓
150° E		
N	53	282.0 ✓
dt	51	282.2 ✓
1/4	49	282.4 ✓
c	47	282.6 ✓
1/4	47	282.6 ✓
dt	45	282.8 ✓
S	40	283.3 ✓
175° E		
S	36	283.7 ✓
dt	37	283.6 ✓
1/4	39	283.4 ✓
c	42	283.1 ✓
1/4	44	282.9 ✓
dt	47	282.6 ✓
N	47	282.6 ✓
200° E		
N	36	283.7 ✓
dt	36	283.7 ✓
1/4	35	283.8 ✓

HENDRICKS

c	32	284.1 ✓
1/4	33	284.0 ✓
dt	30	284.3 ✓
S	29	284.4 ✓
225° E		
S	24	284.9 ✓
dt	25	284.8 ✓
1/4	27	284.6 ✓
c	29	284.4 ✓
1/4	28	284.5 ✓
dt	32	284.1 ✓
N	34	283.9 ✓
255° E		
N	43	283.0 ✓
dt	39	283.4 ✓
1/4	34	283.9 ✓
c	28	284.5 ✓
1/4	26	284.7 ✓
dt	26	284.7 ✓
S	24	284.9 ✓
265° E		
S	24	278.9 ✓
dt	22	280.1 ✓
1/4	58	281.5 ✓
c	40	283.3 ✓
1/4	46	282.7 ✓

28731

dt			63	281.0	✓
+2			47	282.6	✓
N			59	281.4	✓
		275' E			
N			11.1	276.2	✓
dt			99	277.4	✓
1/2			96	277.7	✓
C			95	277.8	✓
1/4			10.8	276.5	✓
dt			11.9	275.4	✓
S			13.1	274.2	✓
T.P.	0.16	274.65	12.82	274.49	✓
		300' E			
-20			9.0	265.7	✓
S			9.6	265.1	✓
dt			10.6	264.1	✓
1/2			10.7	264.0	✓
C			10.5	264.2	✓
1/4			10.2	264.5	✓
dt			10.3	264.4	✓
N			11.4	263.3	✓
+20			12.6	262.1	✓
T.P.	3.77	265.71	12.81	261.84	✓
		315' E			
-30			11.6	254.1	✓
-20			10.6	255.1	✓

HENDRICKS

N			10.2	255.5	✓
dt			9.2	256.5	✓
1/2			8.3	257.4	✓
C			6.9	258.8	✓
1/4			7.8	257.9	✓
dt			9.7	256.0	✓
S			10.1	255.6	✓
+20			7.6	258.1	✓
+30			6.5	259.2	✓
		325' E			
-35			9.3	256.4	✓
-10			11.9	253.8	✓
S			12.4	253.3	✓
dt			12.9	252.8	✓
1/2			12.4	253.3	✓
C			12.7	253.0	✓
1/4			13.1	252.6	✓
T.P.	12.7	254.10	9.12.88	252.83	✓
dt			2.0	252.1	✓
N			2.5	251.6	✓
+20			1.1	253.0	✓
+40			4.3	249.8	✓
		335' E			
-50			10.5	243.6	✓
-20			6.5	247.6	✓

254.10

N	2.7	246.4
dc	6.8	247.3
1/4	5.4	248.7
C	4.9	249.2
1/4	4.6	249.5
ct	5.0	249.1
S	5.7	248.4
+7	1.4	252.7
+12	4.1	250.0
+10	1.5	252.6
+50	+1.8	255.9
	342' E	
-50.0	0.7	253.4
-40.0	2.8	251.3
-25	2.0	252.1
-13	3.5	250.6
-10	1.8	252.3
S	6.6	247.5
dc	8.0	246.1
1/2	7.4	246.7
C	6.8	247.3
1/4	7.7	246.4
dc	9.5	244.6
N	10.5	243.6
+25	10.3	243.8
+40	11.0	243.1
+55	14.7	239.4

HENDRICKS

352' E

-55	17.7	236.4
-40	14.7	239.4
-20	15.7	238.4
N	13.8	240.3
ct	12.8	241.3
1/4	10.8	243.3
C	10.2	243.9
1/4	8.3	245.8
ct	5.2	248.9
S	3.5	250.6
+12	0.3	253.8
+40	+1.5	255.6
	355' E	
-12	6.0	254.1
-40	+2.0	256.1
S	2.5	251.6
dc	3.9	250.2
1/4	7.1	247.0
C	9.8	244.3
1/4	11.6	242.5
ct	12.8	241.3
N	12.5	241.6
+10	13.5	240.6
+15	15.9	238.2
+25	19.5	236.6

254.10

+40		16.0	238.1	
+55		18.8	235.3	
	365° E			
-55		22.2	231.9	
-35		19.7	234.4	
-15		11.4	242.7	
N		9.6	244.5	
dr		9.5	244.6	
1/4		9.2	244.9	
C		7.2	246.9	
1/4		3.9	250.2	
dr		0.8	253.3	
T.P.	12.01	265.91 ✓	0.20	253.90 ✓
S		11.0	254.9	
+12		7.8	258.1	
+40		5.8	260.1	
	385° E			
-16		4.6	267.5	
S		-3.1	262.8	
dr		6.2	259.7	
1/4		9.6	256.3	
C		13.6	252.3	
1/4		15.7	250.2	
dr		15.5	250.4	
N		15.7	250.2	
+25		15.9	247.0	
+35		21.9	244.0	

HENDRICKS

400° E

-20		12.6	253.3	
N		8.3	257.6	
dr		8.3	257.6	
1/4		9.2	256.7	
C		9.8	256.1	
1/4		4.6	261.3	
dr		0.9	265.0	
T.P.	13.16	278.15 ✓	0.32	265.59 ✓
S		10.0	268.8	
+12		5.2	273.6	
	425° E			
-6		0.0	278.8	
S		2.6	276.2	
dr		7.4	271.4	
1/4		11.8	267.0	
+5		13.6	265.2	
C		13.3	265.5	
1/4		10.0	268.8	
dr		7.0	269.8	
N		9.3	269.5	
+15		11.7	267.1	
T.P.	12.32	290.69 ✓	0.38	278.37 ✓
	445° E			
-5		11.4	279.3	
N		10.5	280.2	

290.69

+5	9.6	281.1
cb	10.5	280.2
1/4	12.8	278.9
c	15.1	275.6
1/4	15.8	274.9
cb	13.5	277.2
s	10.1	280.6
+5	7.9	282.8

450'E

-5	6.6	284.1
s	8.9	281.8
cb	11.1	279.6
1/4	12.8	277.9
c	12.5	278.2
1/4	10.8	279.9
cb	8.1	282.3
N	8.5	282.2
+5	10.2	280.5

467'E

N	6.8	283.9
cb	6.3	284.4
1/4	6.3	284.4
c	7.1	283.6
+5	7.9	282.8
1/4	6.6	283.9
cb	5.7	285.0

HENDRICKS

S 48 285.9

470'E

S	3.8	286.9
cb	4.3	286.4
1/4	4.1	286.3
c	4.8	285.9
1/4	5.2	285.5
cb	5.6	285.1
N	5.6	285.1

500'E

N	4.1	286.3
cb	4.6	286.1
1/4	4.1	286.3
c	3.9	286.8
1/4	3.6	287.1
cb	3.6	287.1
S	3.0	287.7

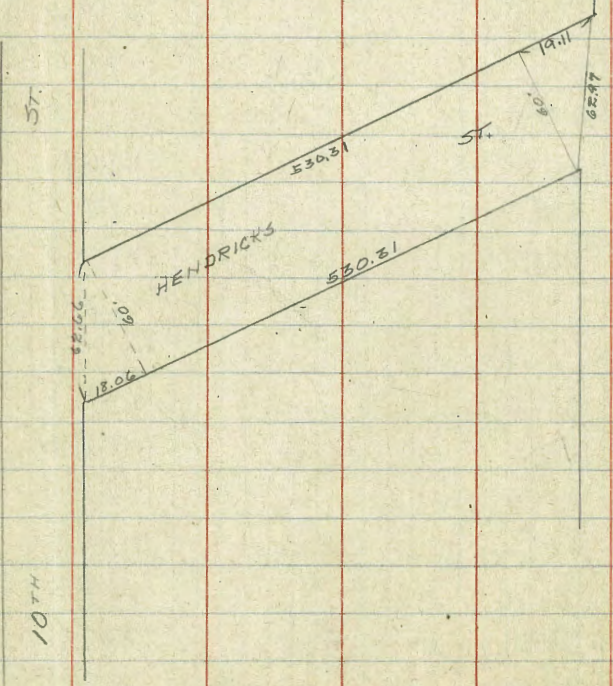
530 E = SECTION B

S	1.6	289.1
cb	2.7	288.0
1/4	2.1	288.3
c	2.6	288.1
1/4	3.0	287.7
cb	3.1	287.6
N	2.9	287.8

N. L. Vermont St.

N			1.6	289.1
ob			2.2	288.5
1/4			2.2	288.5
c			2.0	288.7
1/4			2.1	288.6
ob			2.5	288.2
S			2.5	288.2
T.P.	544	294.45	1.65	289.04
Ch. on B.M.			4.65	289.83

✓
N
CH. on B.M.
17.11
17.11



Survey of center line of ⁷⁰ Ravina Street from corner to Lafolla Boulevard.

Sept. 11 1/2
 Blundo
 Evans
 Shaw



350.00'

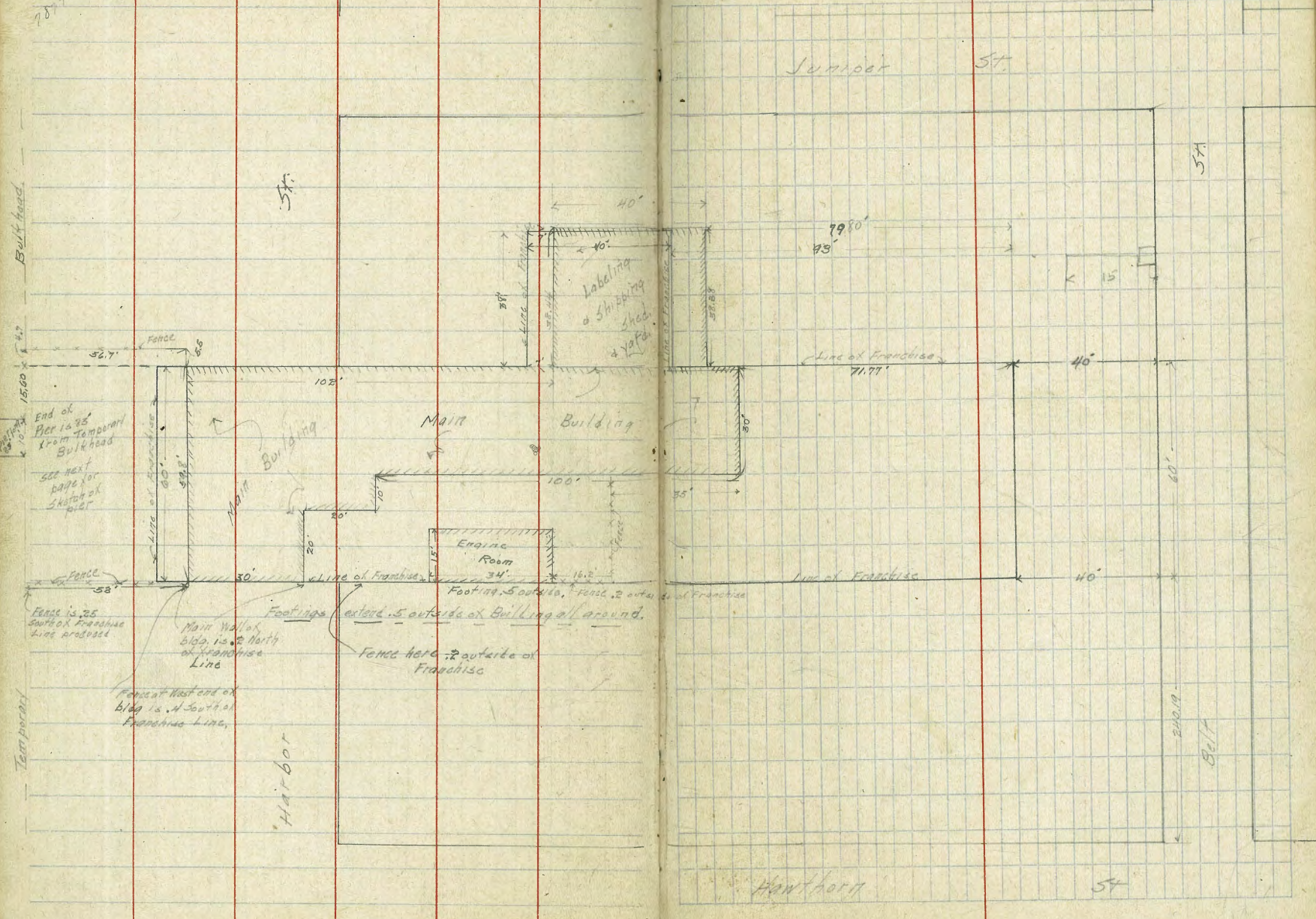
Lafolla Blvd.

Blundo



11/5/6
Grapes
Moore
Miller

LOCATION OF BUILDINGS ON
FRANCHISE OF
NEPTUNE SEA FOOD CO.



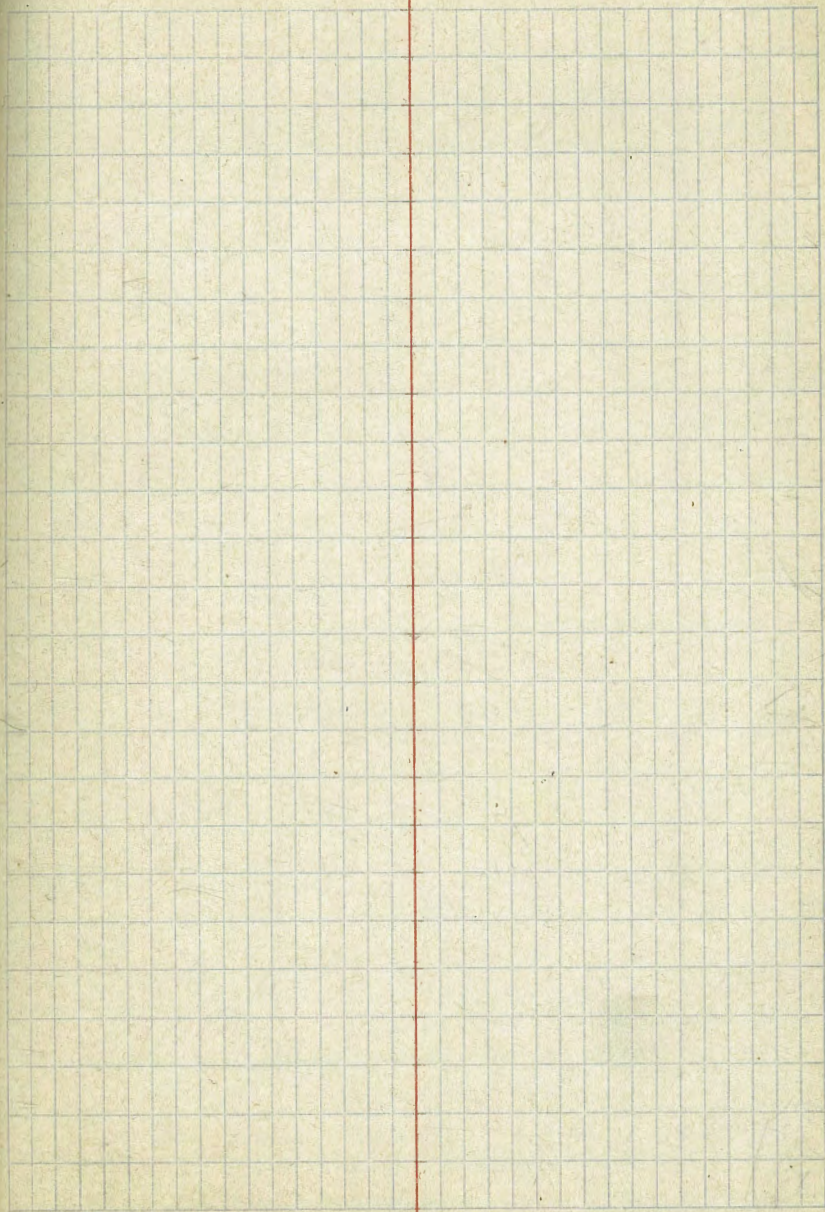
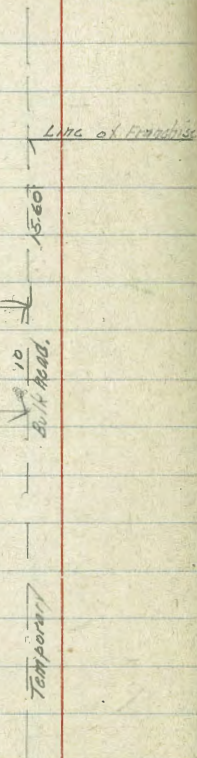
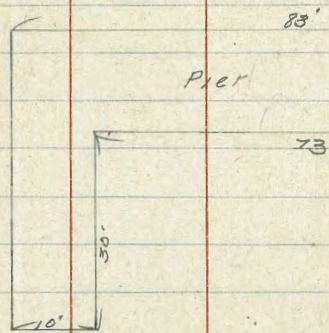
Summer St.

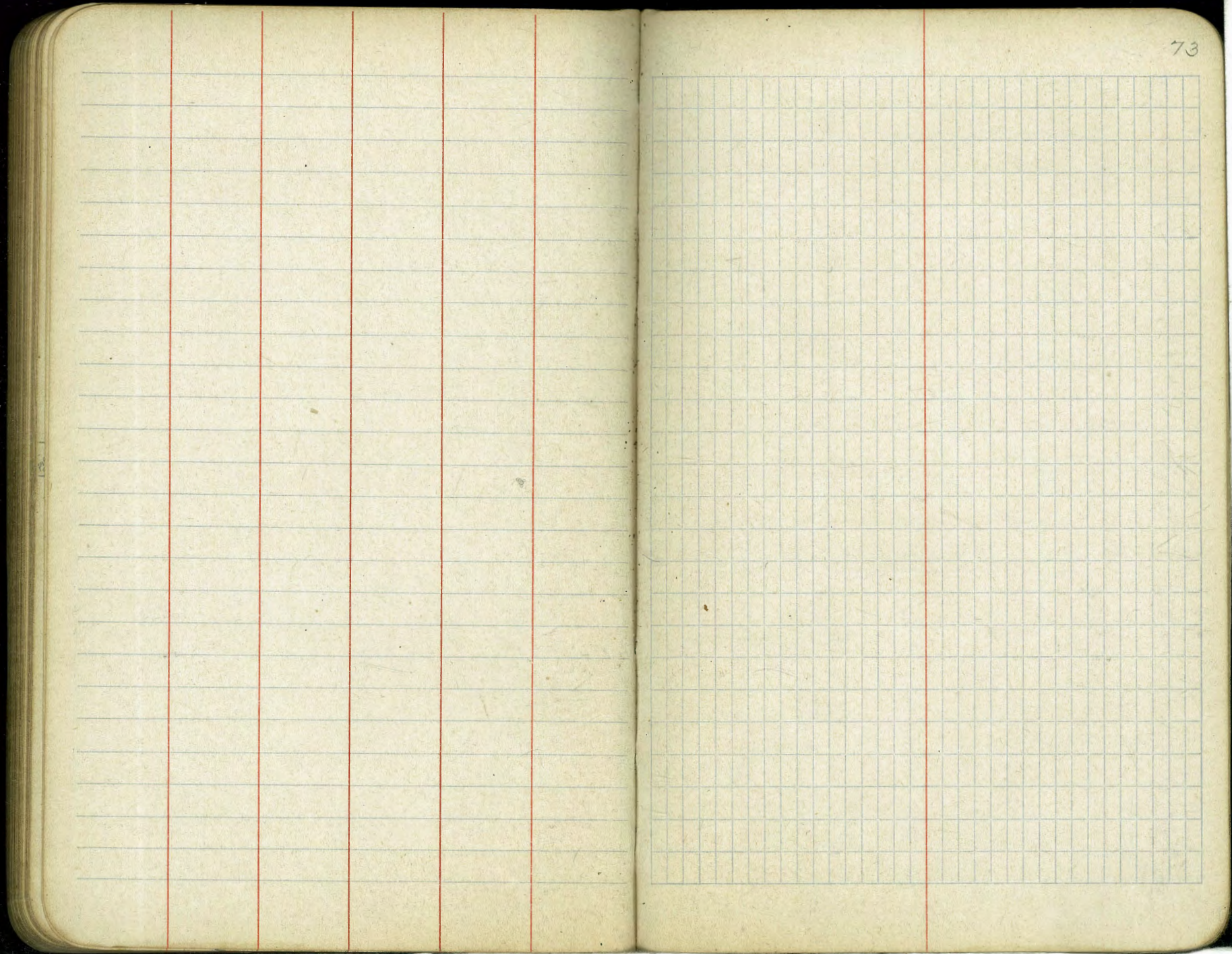
5ft.

5ft.

Hawthorn

5ft.

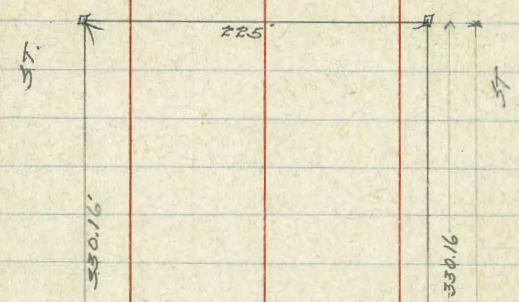




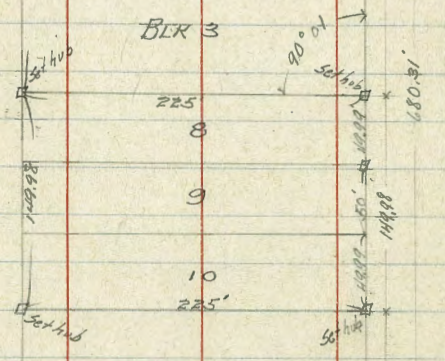
3/17 Gregory
Moore
Miller

Survey of Lots 8-9-10
BLK 3
of Harbor Lands
for Neptune Seafood Co

JUNIPER ST



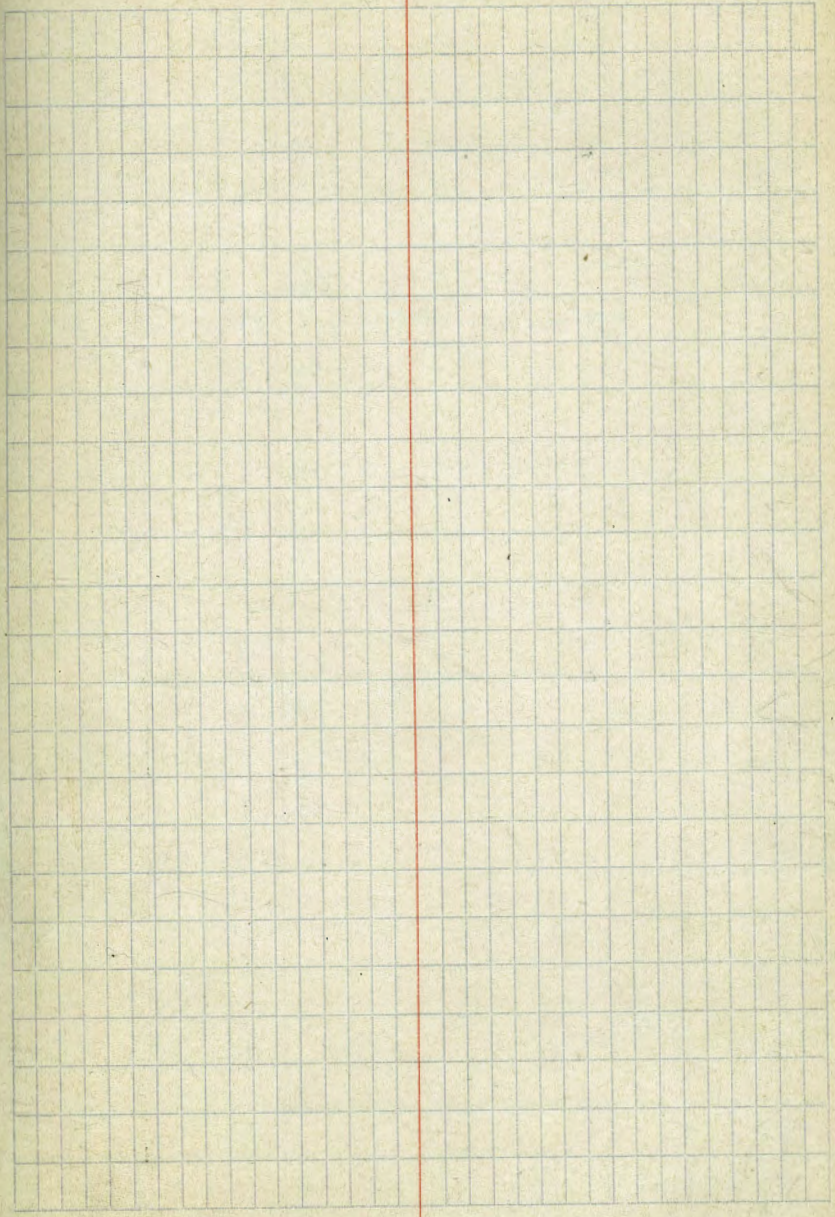
BLK 3



HARBOR

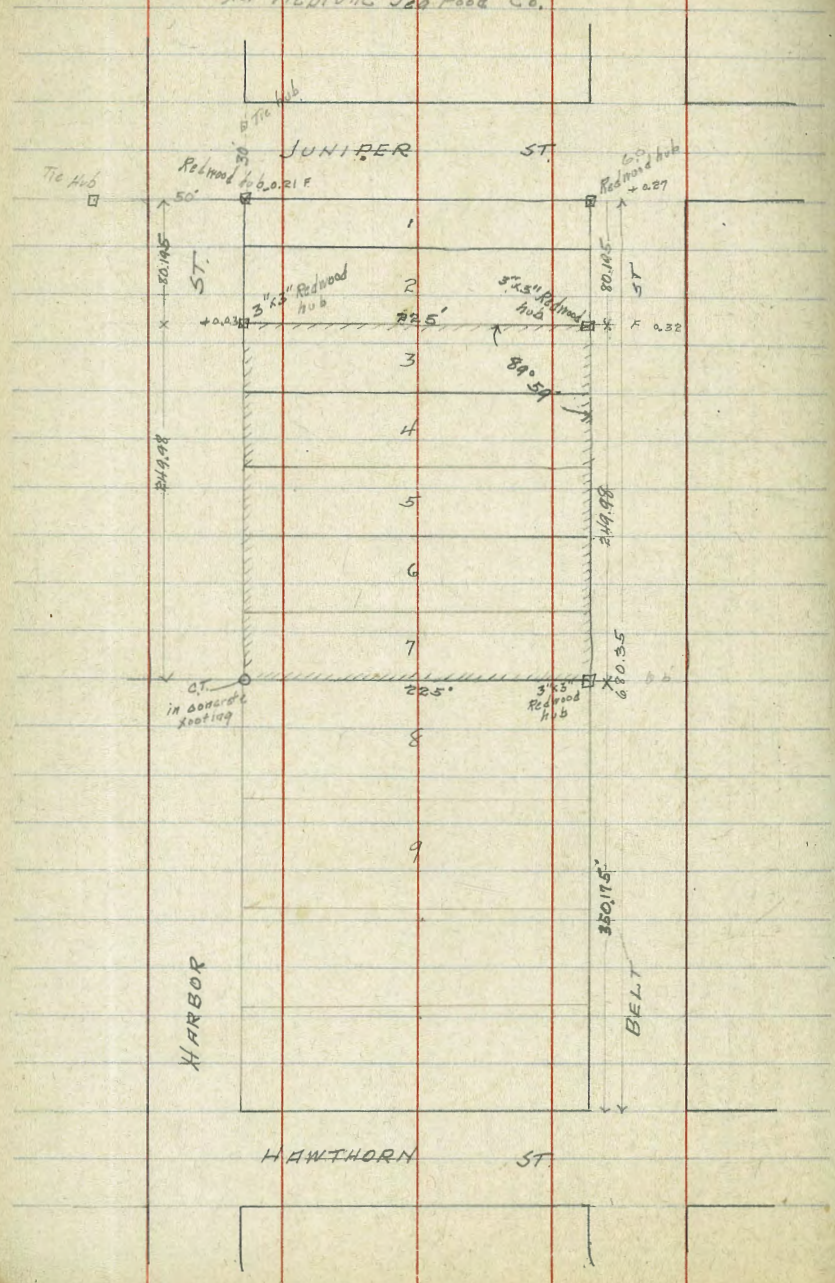
HAWTHORN ST

BELT



2/21/39 George Miller

Survey of Lots 3-4-5-6-7
BLOCK 3
 of Harbor Lands
 for Neptune Sea Food Co.



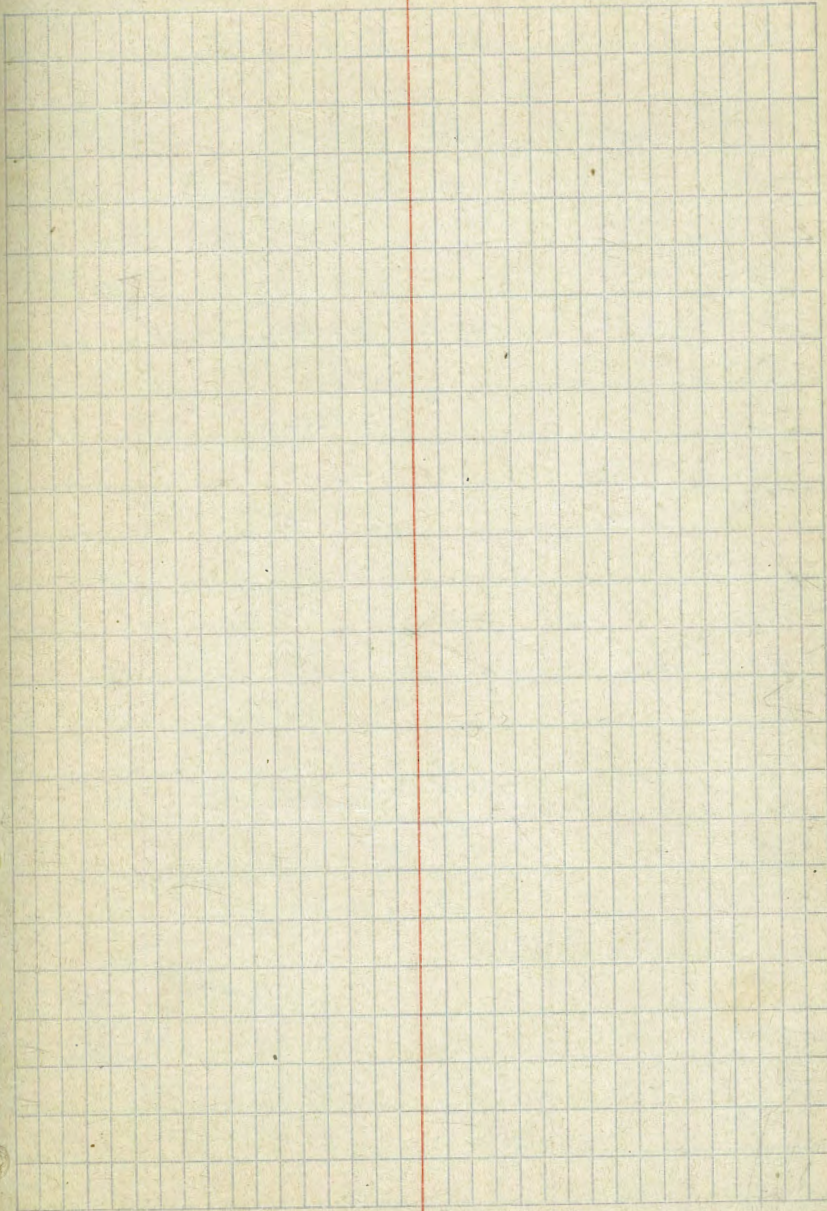
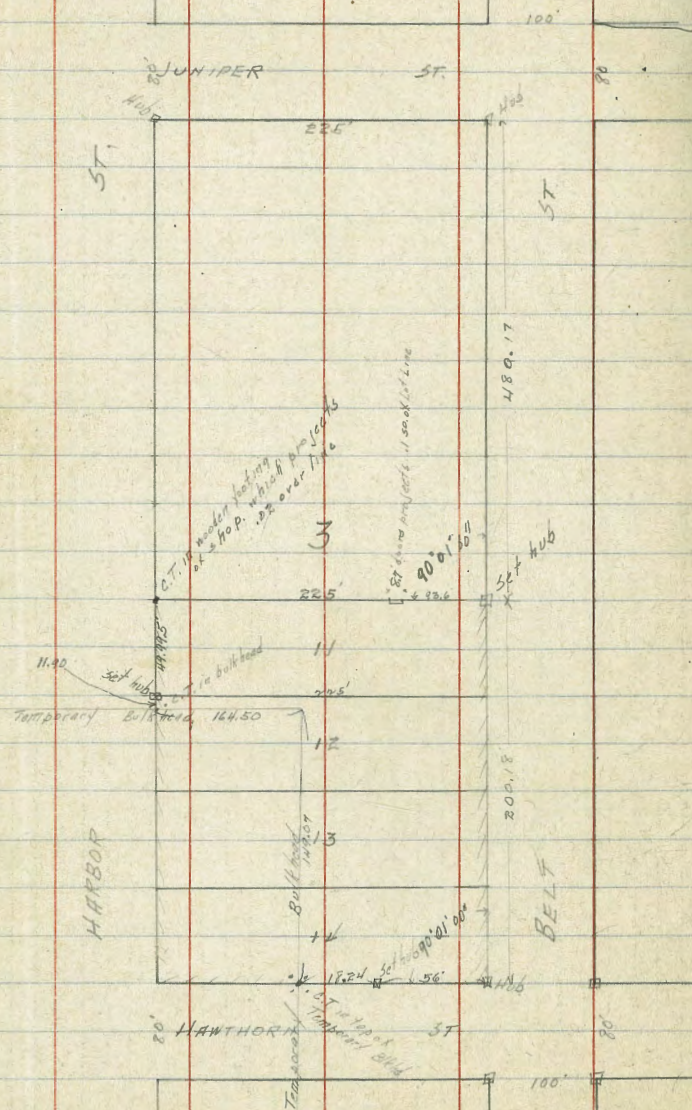
2.70 Top Hydrant by Atlantic 330) 5.00 (00154 30
 1.05
 775 6.0 4.12
 3.00
 17.50
 10.160

75

405	325	506	450
270	627	477	505
225	225	627	225
-225	225	-225	225

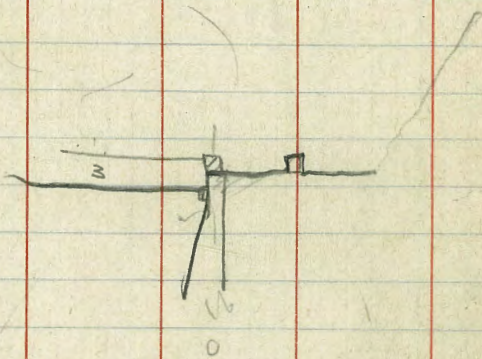
10/3/19 Gregory

Survey of Lots 4-12-13-14
BLOCK 3
HARBOR LANDS



Ocean Beach Plunge see P13
Oct 18/1918

Sta	Rod	Elev	
B.M.		+2.83	N. End Con. Curb
	+2.95	5.78	0.68
	-5.92		-0.14 .87
	-5.82		-0.04
"A"	-5.95		-0.17
"B"	-8.00		-2.22
"C"	-4.15		+1.63
"D"	-7.00		-1.22
"E"	-3.55		+1.23
"F"	-0.5		+5.28
"G"			



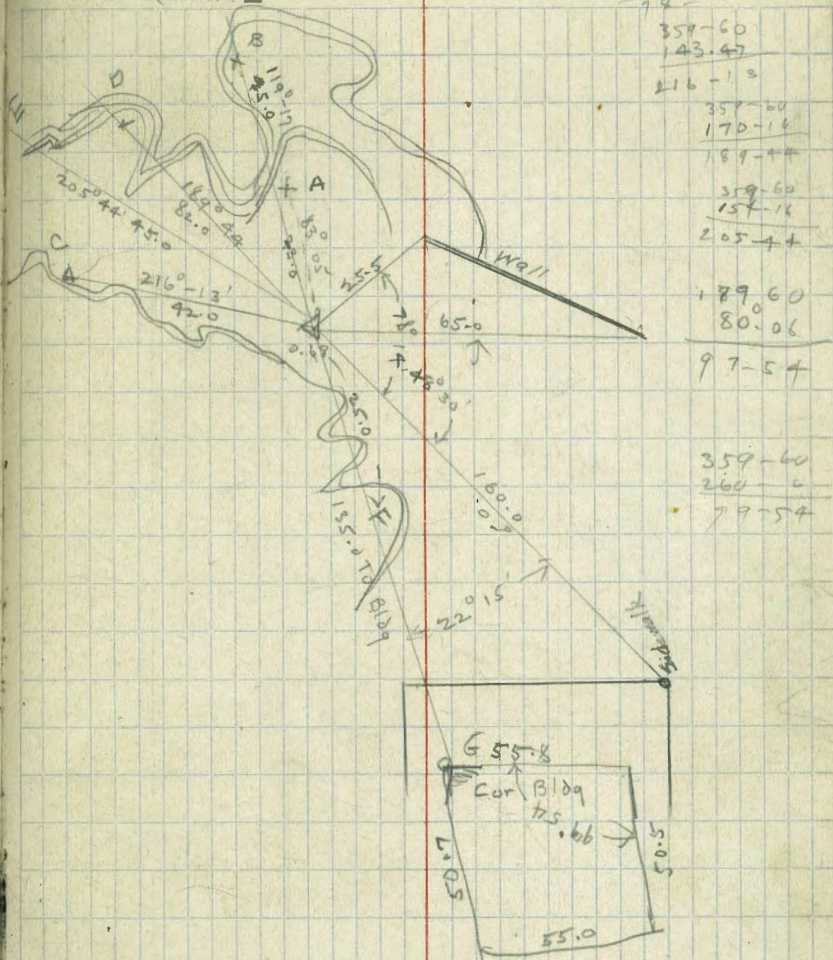
119-17

187-44

143.47

Cromwell
Hoopes
Schwartz

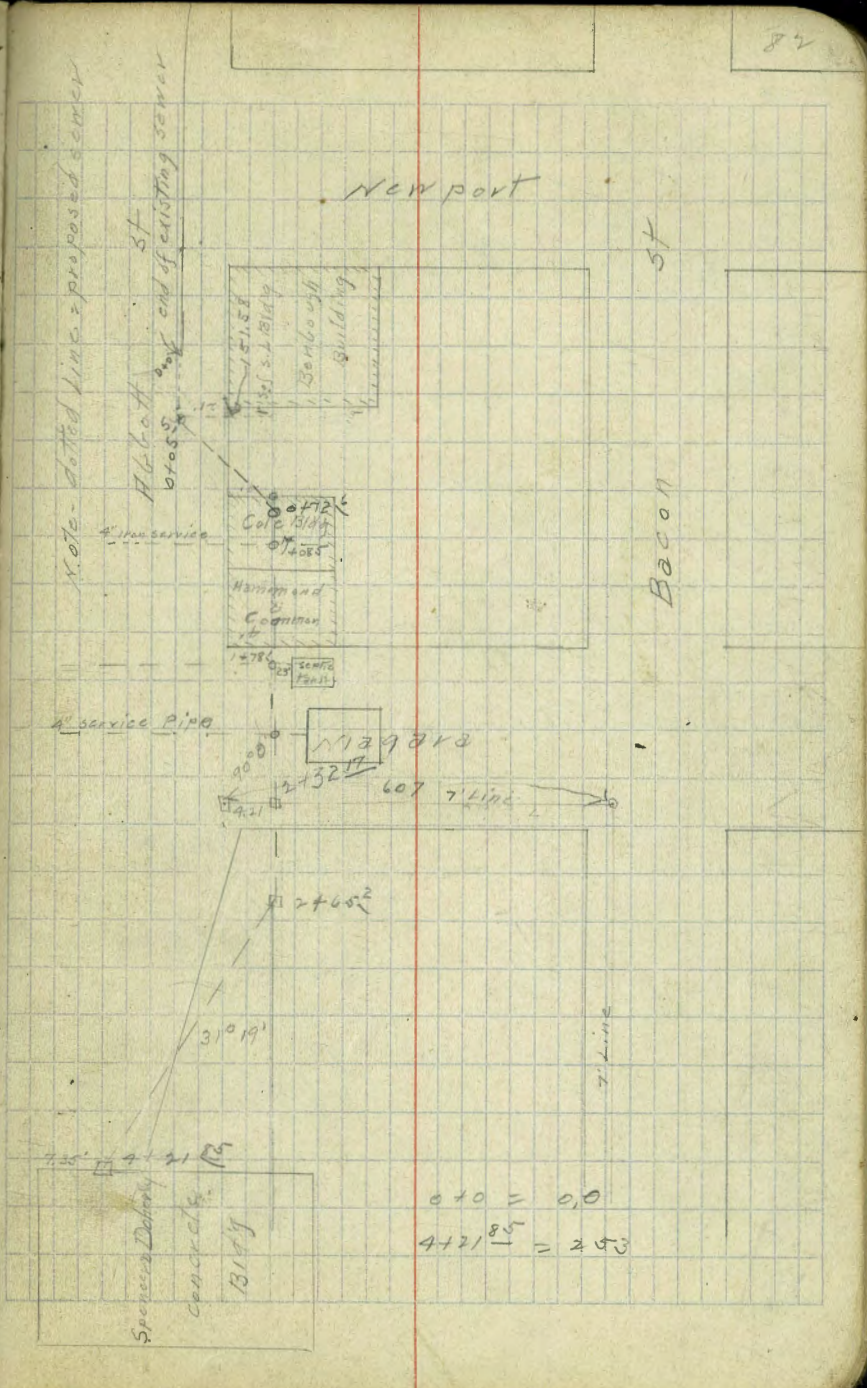
359-60 81
281-45



78-15
359-60
143.47
216-13
359-60
170-16
187-44
359-60
157-16
205-44
187-60
80.06
97-54
359-60
260
79-54

216-13
187
36-13

BM	64333 plg Newport Abbott	6.50	
T.P.	4.50 5.09	11.33 11.39	5.03 6.30
0+0	end of existing sewer	9.1	2.3
0+105	= 1' top of S.L. Bankough Bldg	9.1	2.3
0+25		8.3	3.1
0+50		8.4	3.0
0+72.5		8.7	2.7
T.P.	2.68	4.73	8.34
			(2.05)
0+78.5		2.2	2.5
1+03.5		2.2	2.5
1+08.5	bottom of iron service	1.4	3.3
1+28		2.0	2.7
1+33.5	= Rock surface	3.6	- 3.9
1+53		2.0	2.7
T.P.	10.38	11.40	3.71
1+78	bottom of 3" service pipe	12.5	- 7.1
1+78.5		8.5	2.9
1+99	= 4" service	11.7	- 0.3
2+03		8.5	2.9
2+28		8.4	3.0
2+30	= Rock surface	14.5	- 3.1
2+53		7.2	4.2
2+65	R 31°19'	3.0	8.4
2+78		5.8	5.6
2+96		7.7	3.7
3+03		7.0	4.4
3+28		5.9	5.5
3+53		6.1	5.3
3+78		7.1	4.3
4+03		7.0	4.4
4+21		10.6	0.8
4+21		6.0	5.4
4+21	floor/cvc & No wall of Spencer Doherty Bldg	6.50	4.90



KEITH'S RAILROAD CURVE TABLES.

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HOW TO USE KEITH'S TABLES.

EXAMPLE.

Wanted a Curve with an Ext. of about 12 ft. Angle
of Intersection or I. P.= $23^{\circ} 20'$ to the R. at Station
542+72.

Ext. in Tab. IV opposite $23^{\circ} 20'$ =120.87
120.87+12=132.87. Say a 10° Curve.

Tan. in Tab. IV opp. $23^{\circ} 20'$ =1183.1
1183.1+10=1193.1.

Tab. V, correction for A. $23^{\circ} 20'$ for a 10° Cur.=0.16
1193.1+0.16=1193.26=corrected Tangent.

(If corrected Ext. is required find in same way)
Ang. $23^{\circ} 20'$ = $23.33^{\circ} + 10$ =2.3333=L. C.

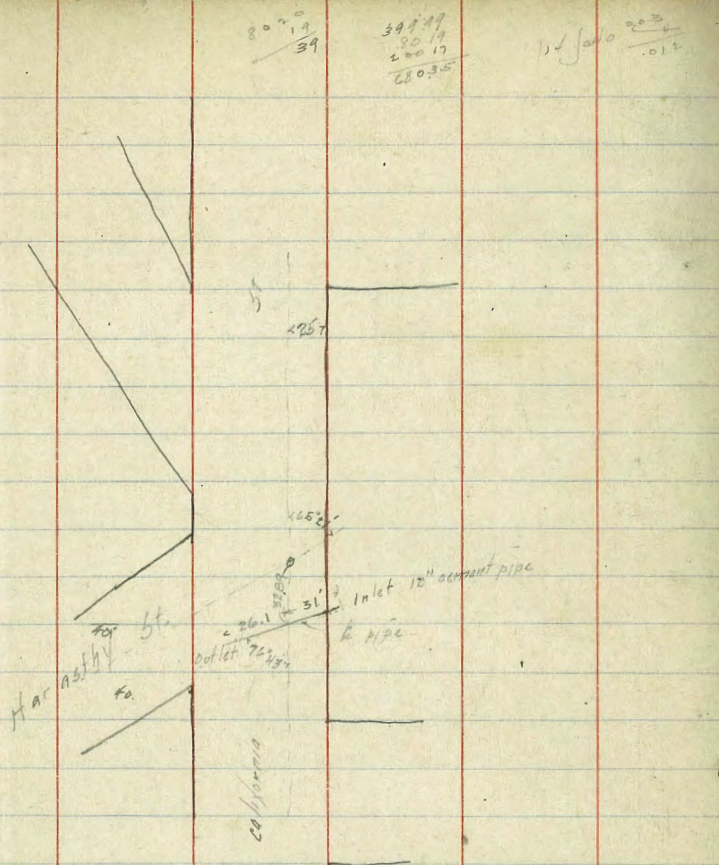
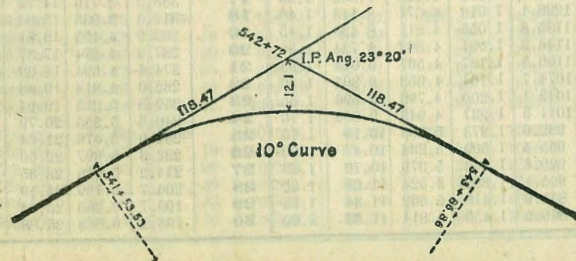
$2^{\circ} 19\frac{1}{2}'$ =def. for sta. 542	I. P.=sta. 542+72
$4^{\circ} 49\frac{1}{2}'$ = " " " +50	Tan.= 1.18.47
$7^{\circ} 19\frac{1}{2}'$ = " " " 543	B. C.=sta. 541+53.53
$9^{\circ} 49\frac{1}{2}'$ = " " " +50	L. C.= 2.33.33
$11^{\circ} 40'$ = " " " 543+	E. C.=sta. 543+86.86
86.86	

$100 - 53.53 = 46.47 \times 3' (\text{def. for 1 ft. of } 10^{\circ} \text{ Cur.}) = 139.41' =$
 $2^{\circ} 19\frac{1}{2}' = \text{def. for sta. 542.}$

Def. for 50 ft.= $2^{\circ} 30'$ for a 10° Curve.

Def. for 86.86 ft.= $1^{\circ} 50\frac{1}{2}'$ for a 10° Curve

(These tables are published in Field Books of
KEUFFEL & ESSER Co., New York, N. Y.)



X

38.00
5.00
27.50

760 263 117
770 276
795
95 No. 19.3
27 No. 96
30 No. 81
31 No. 79
32 No. 920 7.2
33 No. 245 10.9
36 No. 951 11.8
37 No. 910 13.6
38 No. 945 16.4
39 No. 1040 18.3
40 No. 1045 5.9
40 No. 1070 2.0
40 No. 1075 2.00

126.0
126.0
101.4 158
38 No.

124.18

RETURN TO CITY ENGINEERING OFFICE
CITY HALL, SAN FRANCISCO, CAL.

11.5
16
11.0

407
38933
57.67

126
4
73
504
146

65
19
446
1.15
23

126
63

126
27
1134
252

121 14 Sw. p. 1193

22.50
73
6750
75750
164250

9878 } 72000 } 23
69146 }
43988
17131
31857 } 40000 } 12
31857

81430
63714
17716

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 14 FEET WIDE. SIDE SLOPES 1 1/2 TO 1.
FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

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

MADE IN GERMANY.