

1643

NETZ

FIELD BOOK

# TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0	<b>MICRO</b>		<b>LINE</b>						
1	99.98	1.75	99.99	0.44	100.00	0.87	99.99	1.31	89
2	99.94	3.49	99.92	3.93	99.91	2.62	99.95	3.05	88
3	99.86	5.23	99.84	5.67	99.81	4.36	99.88	4.80	87
4	99.76	6.98	99.73	7.41	99.69	5.67	99.79	6.54	86
5	99.62	8.72	99.58	8.15	99.54	7.85	99.66	8.28	85
6	99.45	10.45	99.41	10.89	99.36	9.58	99.50	10.02	84
7	99.25	12.19	99.20	12.62	99.14	11.32	99.31	11.75	83
8	99.03	13.92	98.97	14.35	98.90	13.05	99.09	13.49	82
9	98.77	15.64	98.70	16.07	98.63	14.78	98.84	15.21	81
10	98.48	17.36	98.40	17.79	98.33	16.50	98.56	16.93	80
11	98.16	19.08	98.08	19.51	97.99	18.22	98.25	18.65	79
12	97.81	20.79	97.72	21.22	97.63	19.94	97.90	20.96	78
13	97.44	22.50	97.34	22.92	97.24	21.64	97.53	22.07	77
14	97.03	24.19	96.92	24.62	96.81	23.34	97.13	23.77	76
15	96.59	25.88	96.48	26.30	96.36	25.04	96.70	25.46	75
16	96.13	27.56	96.00	27.98	95.88	26.72	96.25	27.14	74
17	95.63	29.24	95.50	29.65	95.37	28.40	95.76	28.82	73
18	95.11	30.90	94.97	31.32	94.83	30.07	95.24	30.49	72
19	94.55	32.56	94.41	32.97	94.26	31.73	94.69	32.14	71
20	93.97	34.20	93.82	34.61	93.67	33.38	94.12	33.79	70
21	93.36	35.84	93.20	36.24	93.04	35.02	93.51	35.43	69
22	92.72	37.46	92.55	37.86	92.39	36.65	92.88	37.06	68
23	92.05	39.07	91.88	39.47	91.71	38.27	92.22	38.67	67
24	91.35	40.67	91.18	41.07	91.00	39.87	91.53	40.27	66
25	90.63	42.26	90.45	42.66	90.26	41.47	90.81	41.87	65
26	89.88	43.84	89.69	44.23	89.49	43.05	90.07	43.44	64
27	89.10	45.40	88.90	45.79	88.70	44.62	89.30	45.01	63
28	88.29	46.95	88.09	47.33	87.88	46.17	88.50	46.56	62
29	87.46	48.48	87.25	48.86	87.04	47.72	87.67	48.10	61
30	86.60	50.00	86.38	50.38	86.16	49.24	86.82	49.62	60
31	85.72	51.50	85.49	51.88	85.26	50.75	85.94	51.13	59
32	84.80	52.99	84.57	53.36	84.34	52.25	85.04	52.62	58
33	83.87	54.46	83.63	54.83	83.39	53.73	84.10	54.10	57
34	82.90	55.92	82.66	56.28	82.41	55.19	83.15	55.56	56
35	81.92	57.36	81.66	57.71	81.41	56.64	82.16	57.00	55
36	80.90	58.78	80.64	59.13	80.39	58.07	81.16	58.42	54
37	79.86	60.18	79.60	60.53	79.34	59.48	80.13	59.83	53
38	78.80	61.57	78.53	61.91	78.26	60.88	79.07	61.22	52
39	77.71	62.93	77.44	63.27	77.16	62.25	77.99	62.59	51
40	76.60	64.28	76.32	64.61	76.04	63.61	76.88	63.94	50
41	75.47	65.61	75.18	65.93	74.90	64.94	75.76	65.28	49
42	74.31	66.91	74.02	67.24	73.73	66.26	74.61	66.59	48
43	73.14	68.20	72.84	68.52	72.54	67.56	73.43	67.88	47
44	71.93	69.47	71.63	69.78	71.33	68.84	72.24	69.15	46
45	70.71	70.71				70.09	71.02	70.40	45
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		

Published by the A. LIETZ CO., San Francisco, Cal.

MADE IN  
U. S. A.



**LIETZ STANDARD ENGINEERS' TRANSIT**  
With U Shaped Standards

No. 5E with 6¼" limb.

No. 11E with 5" limb.

Furnished with either Internal or External  
Focusing Telescope.

*Handwritten notes in the top right corner:*  
 BM. 28.57  
 + 3.41  
 Li 31.98  
 9.01  
 Corr. Li 22.97

*Handwritten notes on the left side:*  
 Top 12" Steel 22.97  
 Elev. 12.29  
 & Cone Island 22.97  
 10.68  
 17.25  
 Quality Evidenced Since 1882.  
 Sta 273+97.22  
 22.97  
 4.71  
 18.26  
 23  
 18  
 5  
 35  
 35

*Handwritten notes on the right side:*  
 1.10  
 -0.15

CITY ENGINEER

TABLE OF STADIA REDUCTIONS  
For a Constant of 100.  
ROD VERTICAL.

Table with columns for Min., 0°, 1°, 2°, 3°, 4°, 5°, 6°, 7°, and 8°. Each degree column contains 'Hor. Dist.', 'Diff. Elev.', and 'Hor. Dist.' sub-columns. The table provides data for vertical rod heights from 0 to 60 feet and for angles from 0 to 8 degrees. Summary values for c=0.75, 1.15, and 1.90 are provided at the bottom of each column.

Published by the A. LETZ Co., San Francisco, Cal.

TABLE OF STADIA REDUCTIONS.—Continued.

24°		25°		26°		27°		28°		29°		30°	
Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff. Elev.
0	83.46	82.14	38.20	80.78	38.40	79.39	40.45	77.96	41.45	76.50	42.40	75.00	43.30
2	83.47	82.19	38.23	80.81	38.41	79.39	40.46	77.97	41.46	76.51	42.41	75.01	43.31
4	83.48	82.24	38.26	80.84	38.44	79.42	40.49	78.00	41.49	76.54	42.44	75.04	43.34
6	83.53	82.31	38.31	80.91	38.49	79.49	40.55	78.07	41.55	76.61	42.51	75.11	43.41
8	83.58	82.38	38.36	80.98	38.54	79.56	40.62	78.14	41.62	76.68	42.58	75.18	43.48
10	83.64	82.44	38.42	81.04	38.60	79.62	40.68	78.20	41.68	76.74	42.64	75.24	43.54
12	83.70	82.50	38.48	81.10	38.66	79.68	40.74	78.26	41.74	76.80	42.70	75.30	43.60
14	83.76	82.56	38.54	81.16	38.72	79.74	40.80	78.32	41.80	76.86	42.76	75.36	43.66
16	83.82	82.62	38.60	81.22	38.78	79.80	40.86	78.38	41.86	76.92	42.82	75.42	43.72
18	83.88	82.68	38.66	81.28	38.84	79.86	40.92	78.44	41.92	76.98	42.88	75.48	43.78
20	83.94	82.74	38.72	81.34	38.90	79.92	40.98	78.50	41.98	77.04	42.94	75.54	43.84
22	84.00	82.80	38.78	81.40	38.96	79.98	41.04	78.56	42.04	77.10	43.00	75.60	43.90
24	84.06	82.86	38.84	81.46	39.02	80.04	41.10	78.62	42.10	77.16	43.06	75.66	43.96
26	84.12	82.92	38.90	81.52	39.08	80.10	41.16	78.68	42.16	77.22	43.12	75.72	44.02
28	84.18	82.98	38.96	81.58	39.14	80.16	41.22	78.74	42.22	77.28	43.18	75.78	44.08
30	84.24	83.04	39.02	81.64	39.20	80.22	41.28	78.80	42.28	77.34	43.24	75.84	44.14
32	84.30	83.10	39.08	81.70	39.26	80.28	41.34	78.86	42.34	77.40	43.30	75.90	44.20
34	84.36	83.16	39.14	81.76	39.32	80.34	41.40	78.92	42.40	77.46	43.36	75.96	44.26
36	84.42	83.22	39.20	81.82	39.38	80.40	41.46	78.98	42.46	77.52	43.42	76.02	44.32
38	84.48	83.28	39.26	81.88	39.44	80.46	41.52	79.04	42.52	77.58	43.48	76.08	44.38
40	84.54	83.34	39.32	81.94	39.50	80.52	41.58	79.10	42.58	77.64	43.54	76.14	44.44
42	84.60	83.40	39.38	82.00	39.56	80.58	41.64	79.16	42.64	77.70	43.60	76.20	44.50
44	84.66	83.46	39.44	82.06	39.62	80.64	41.70	79.22	42.70	77.76	43.66	76.26	44.56
46	84.72	83.52	39.50	82.12	39.68	80.70	41.76	79.28	42.76	77.82	43.72	76.32	44.62
48	84.78	83.58	39.56	82.18	39.74	80.76	41.82	79.34	42.82	77.88	43.78	76.38	44.68
50	84.84	83.64	39.62	82.24	39.80	80.82	41.88	79.40	42.88	77.94	43.84	76.44	44.74
52	84.90	83.70	39.68	82.30	39.86	80.88	41.94	79.46	42.94	78.00	43.90	76.50	44.80
54	84.96	83.76	39.74	82.36	39.92	80.94	42.00	79.52	43.00	78.06	43.96	76.56	44.86
56	85.02	83.82	39.80	82.42	39.98	81.00	42.06	79.58	43.06	78.12	44.02	76.62	44.92
58	85.08	83.88	39.86	82.48	40.04	81.06	42.12	79.64	43.12	78.18	44.08	76.68	44.98
60	85.14	83.94	39.92	82.54	40.10	81.12	42.18	79.70	43.18	78.24	44.14	76.74	45.04
e=75...	68	31	68	32	67	33	66	33	65	34	64	35	63
e=1.15...	1.05	48	1.04	50	1.03	51	1.02	51	1.01	55	1.00	58	98
e=1.90...	1.73	79	1.72	82	1.70	85	1.69	85	1.67	91	1.65	94	98

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La Jolla shores  
Curb Line levels 1 - 8  
Anderson Jackson School 9 - 17  
Goines 18 - 20  
Hueneme 21 - 24  
Fresno 25 -  
Adams Bridge @ Ward Rd. 26 - 45  
Ward Road across Adams Ave. 46 - 47

K. 10

La Jolla Shores  
Curb Levels

~~30.70~~ - 6 at NW Pasco Grande  
~~2.81~~ + Collado  
~~33.53 = H.I.~~ 31.64  
 1.96  
 33.58 x

~~75~~  
~~16.01~~

75 - 679 158 480  
 16.06 16.79 300 3074

33.58

1.45

32.13 - Fd. B.P. curb SE Pasco Grande + Collado  
 See markers USC&G Levels

12.63

44.76

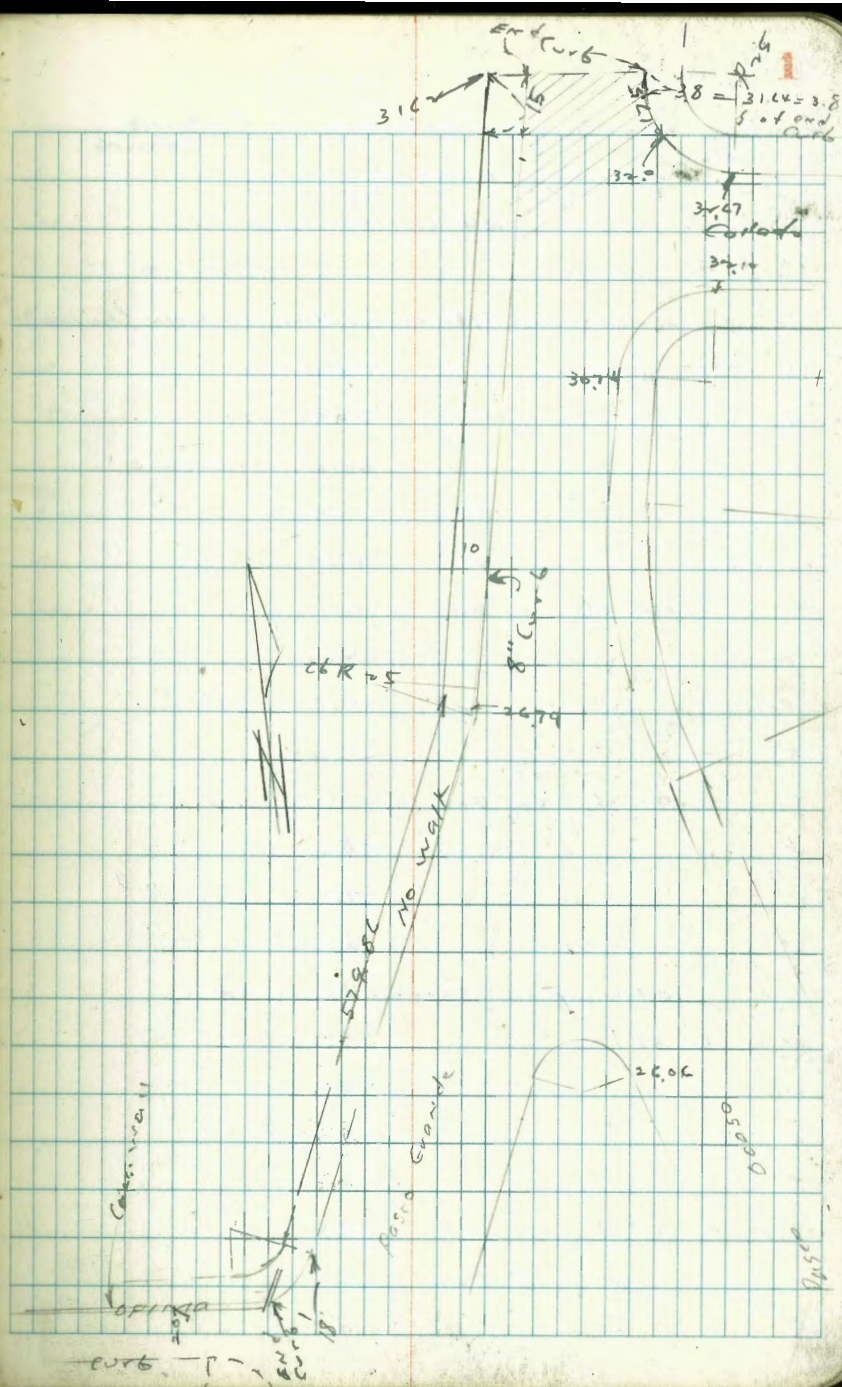
6.92

37.84 T.P. pole

7.04

44.86 T.P. n

37.84 nail T.P. pole  
 12.68  
 50.52  
 0.17  
 50.35  
 12.91  
 63.26  
 6.89  
 56.37 x  
 8.42  
 64.79 x



Moore Levels on CAMINO de La Colina  
7-17-44

Not Graded  
44.86 F.I.

0-21 = with 18' strip Pav. La Jolla Shores Dr.

S - 50 2.43

S 3.09

C 3.24

N 3.02

+50 2.76

0-26 = Shoulder fill

N 2.6

S 4.3

S 4.6

0-36 = Top fill

S 8.1

C 8.0

N 6.2

at w/4 Torrey Pines Rd

N - 15 B.C. 9.5

N 9.3

C 9.6

S 10.0

+15 B.C. 9.8

0+15 F.C.

S 10.2

44.86

2

C	10.2
N	9.9
	0 + 62.5
N	11.9
C	11.8
S	11.7
	1 + 10
S	13.3
C	13.3
N	13.4

Levels on El Pasco Grande 50' wide

NOT graded

1479 X.P.I.

w/ly edge 18' Pav Torrey Pines Rd.

S	18'	6.4
C	approx. B.C. of STRIP Pav.	4.9
N		3.1

0+0 = P.I. on St.  
Sec w/ly Torrey Rd.

N		10.2
C		12.6
S		14.9
	+29.77 B.C.	16.4

0+00 Sec 90°

S = P.I.		14.9	
C		13.8	
N		14.0	
T.P.	0.99	<u>57.93</u>	51.94

0+29.77 F.C.

N		4.7
C		5.4
S		5.1

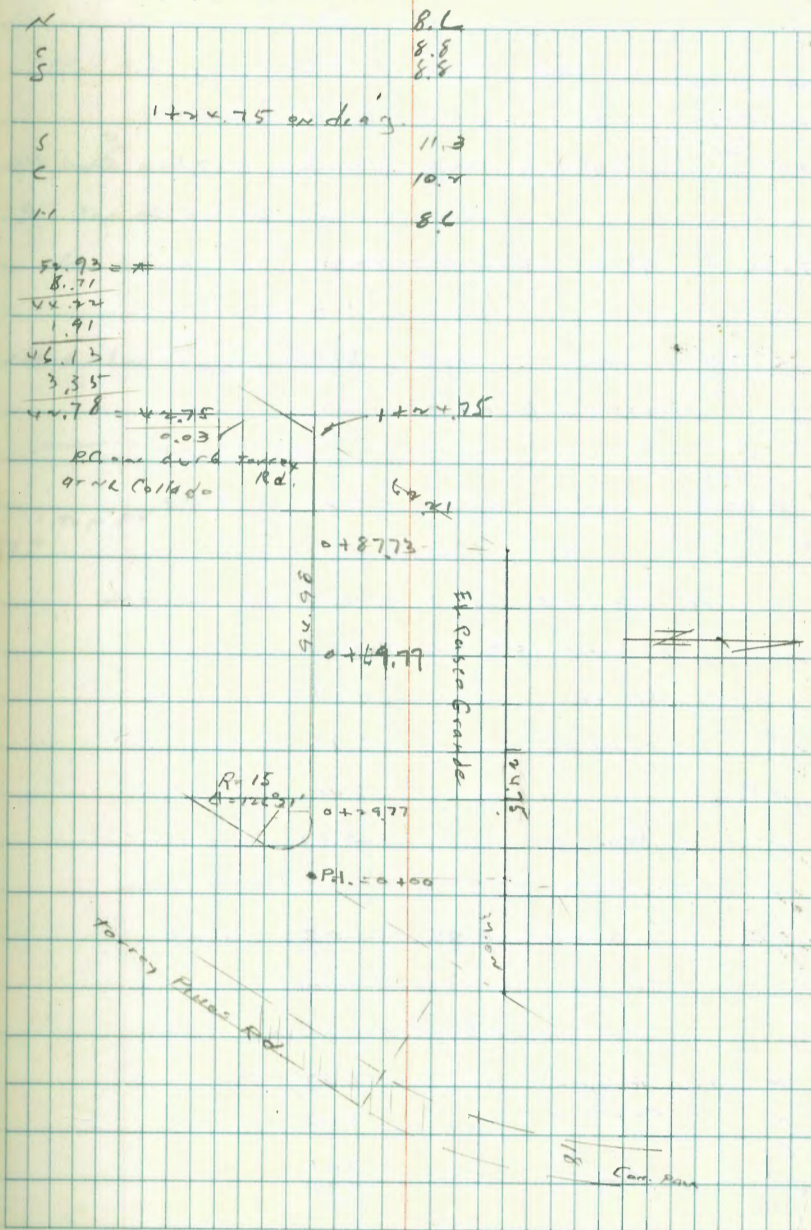
0+69.77

S		2.8
C		2.5
N		2.0

57.93

0+87.73 Sec. 90°

3



N		8.6
C		8.8
S		8.8
	1+24.75 ending	
S		11.2
C		10.7
N		8.6

57.93 = X

8.71

44.22

1.91

46.13

3.35

44.78 = 44.75

0.03

R=15

90°

0+87.73

0+69.77

0+29.77

0+00

0+87.73

0+69.77

0+29.77

0+00

0+87.73

0+69.77

0+29.77

0+00

0+87.73

0+69.77

0+29.77

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0+29.77

0+00

0+87.73

0+69.77

0+29.77

0+00

0+87.73

0+69.77

0+29.77

0+00

Curb Levelson Vereda at Vallecitos

B.M. B.P. Sewer  
de la Haya 291 6.43 3.54  
R.P. 10. CT.  
T.P. Vallecito 565 7.40 4.68 1.75 E. H. de RR

Top cb. 97' W of E Via Pasa

S 5.27

N 5.25

Cross curb at this pt.

T.P. 495 6.54 3.81 3.59

cb Levels on Erascota at Vereda

117.5 W of E Via Pasa

S Tap Reg. cb. 4.69

S " Cross cb 5.35

N " " " 5.41

N " Reg. " 4.77

T.P. 3.44 6.98 3.08 2.46

cb Levels Calle Ojocana

117.5 W of E of Via Pasa

N Tap Reg. cb 4.87

N " Cross " 5.46

S " " " 5.61

S " Reg. " 4.94

6.88

T.P. 3.94 7.54 3.34 3.56

cb on Calle Ojocana at Vereda

S Tap cb EL Vereda 1.86

No cb on N side Ojocana

Tap cb SW. Calle Ojocana 3.50 4.01  $\frac{4.01}{0.01}$

TOP FH.

T.P. 4.01 5.50

NE Cor Grande + Camino del Oro



Moore  
4020-2  
7-20-00

Curb Levels on CAMINO del Oro

Torrey Pines Rd. to Paseo Grande.

Along! E 572.

B.M. #4 14.98 27.00 14.02 1000 Pin

T.P. 703 21.17 2.36 24.64

0 + 00 = W. L. Torrey Pines Rd.

N 4.76

S 4.25

0 + 15 opposite P.L.P.C.

S 4.49

N 4.97

0 + 55

N 6.90

S 6.32

0 + 95

S 8.23

N 8.90

1 + 17

N = beg curb washed out 9.81

S 9.09

1 + 20

S 9.54

1 + 30

S 10.26

T.P. 0.80 19.94 12.53 19.14

19.94

5

1 + 70

S 1.61

N end of washout 3.05

1 + 87

N 4.49

S 2.03

2 + 20

S opp. P.L.P.C. at base 4.13

0 + 00 = E. Paseo Grande P.L.C.

0 + 27.5

N opp. P.L.P.C. 8.79

0 + 76.2

N 11.18

S opp. P.L.P.C. 9.57

1 + 00

S 10.98

N 12.49

T.P. 1.13 8.51 12.50 7.38

1 + 40

N 2.84

S 1.58

1 + 75.33 E.C.

S 3.44

N 4.18

8:51

2+05

N 6 - 4 outside edge walk 5.01

N 6 IN AUTO driveway 5.57

S " " 4.67

2+15

S 6 5.05

N on curb Low POINT 5.39

2+25

S High POINT 5.35

2+35

S 5.40

2+50

S 5.40

Curb Levels on FRESNOLA  
Torrey Pines Rd.

E STA. <sup>8</sup>

Bld #	E STA.	Elev	Notes
Bld #4	1165	25.47	14.02
TP	338	25.50	3.55
			22.12
	0+10		only Torrey Pines Rd
N		1.77	
S		2.96	
	0+15		OPP. PL PC
S		2.95	
N		2.24	
	0+55		
N		3.27	
S		3.73	
	0+95		
S		4.59	
N		4.43	
	1+10		
N		5.01	
S		5.00	
	1+25		
S		5.44	
N		5.28	
	1+50		
N		6.86	

25.50

7

S			6.31
	1+90		
S			7.85
N			8.47
	2+24		
S			9.21
	2+55		23 + E Pasco del Ocaso
	2+84		approx. opp. PL PC on Ocaso
N			10.39
	3+27		33 PRC
N			12.29
S			10.70
	3+35		
S			10.93
TP	1.98	13.77	12.79
			12.71
	3+70		
S			0.95
N			2.36
	4+00		
N			3.61
S			2.43
	4+50		
S			4.70

N in Auto drive 6.30

+ it outside edge walk 5.44

4 + 77

N 6.68

S 5.71

5 + 00

S 6.58

5 + 00

S opp. Pl. PC 7.44

T.P. 4.89 7.97 10.71 3.08

T.P. 5.08 6.76 6.49 1.68

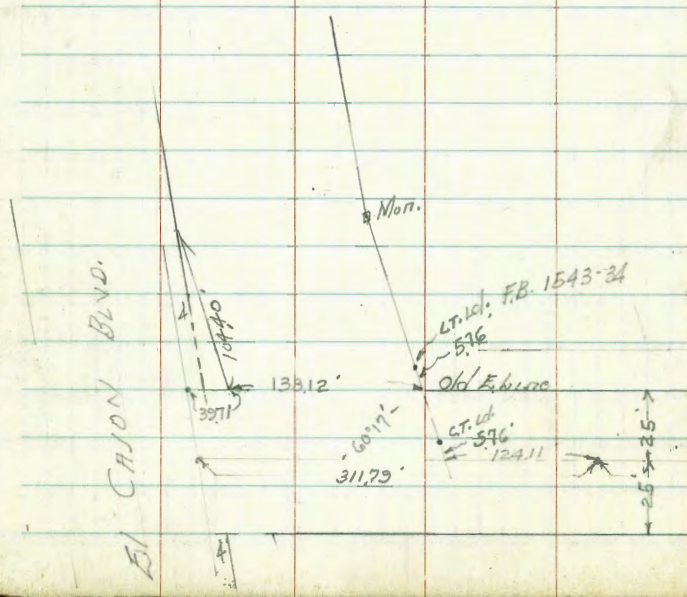
check to orig. B.M. Scawell <sup>on</sup> 3.28 3.48 3.52  
at La Playa 0.04

Wolter  
Osborne  
Hazard  
Boys 7-26-43

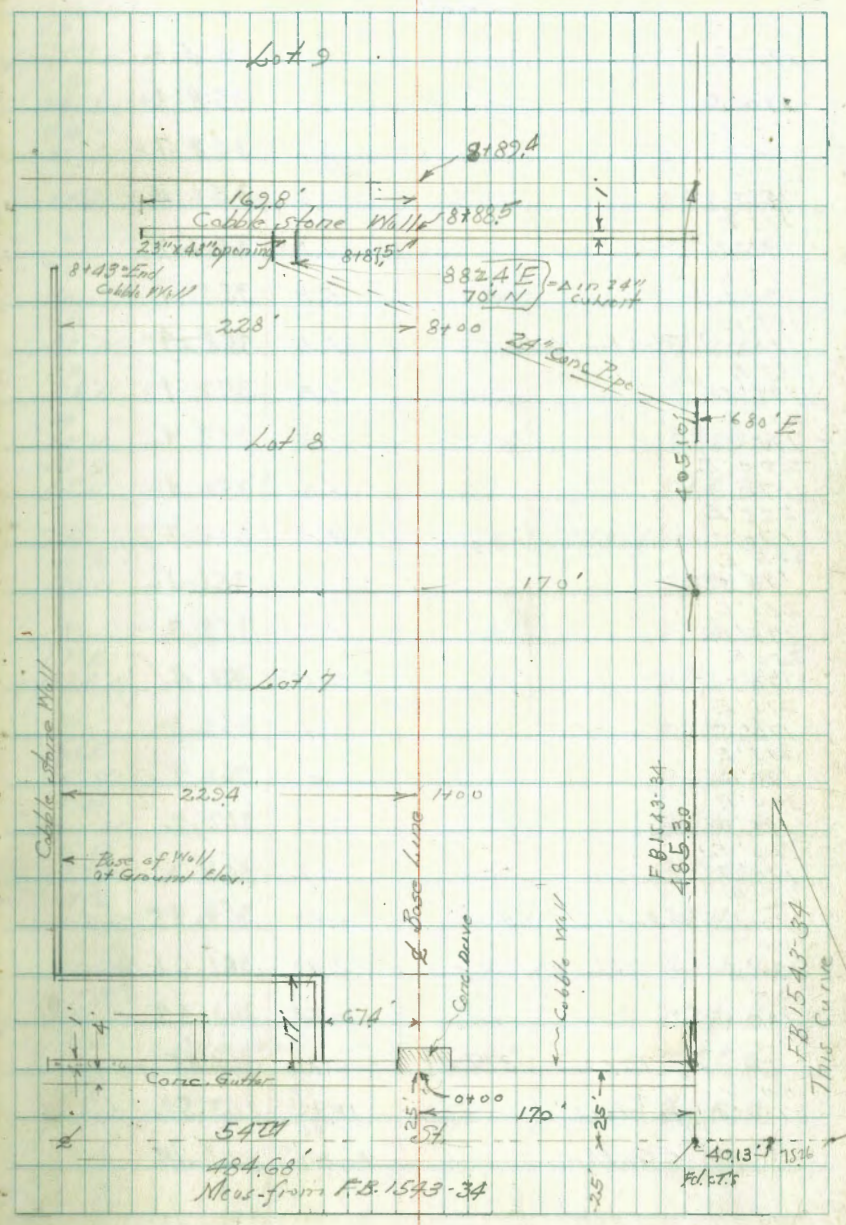
Levels for Portion of Grounds.  
ANDREW JACKSON SCHOOL

	12.76	364.43	351.67
0100			
370'S on Wall	4.38	360.05	
" " Gutter	5.21	358.52	
0400			
175'S	7.1	357.3	
0425			
175'S	9.4	355.0	
0725			
170'S	6.2	358.2	
50'E			
176'S	6.5	357.9	
50'E			
195'S	9.5	354.9	
75'E			
195'S	9.7	354.7	
75'E			
170'S	5.8	358.6	
100'E			
170'S	6.2	358.2	
100'E			
195'S	9.9	354.5	

Cont. P-10



INDEXED  
C.S.K.



Andrew Jackson School  
Cont. from P. 9  
36443

125'E			
195'S	9.1	355.3	
125'E			
170'S	6.1	358.3	
150'E			
170'S	5.7	358.7	
150'E			
195'S	8.0	356.4	
175'E			
195'S	7.2	357.2	
175'E			
170'S	5.3	359.1	
185'E			
170'S	5.5	358.9	Wash from North
185'E			
195'S	7.3	357.1	
200'E			
195'S	7.3	357.1	
290'E			
170'S	4.6	359.8	
225'E			
170'S	4.5	359.9	
225'E			
195'S	6.3	358.1	
250'E			
195'S	1.7	359.7	
250'E			
170'S	2.5	361.9	
275'E			
170'S	1.1	363.1	
275'E			
195'S	3.3	365.1	
300'E			
195'S	2.2	362.2	
300'E			
170'S	0.2	364.2	
12'E			
170'S	4.48	359.95	on End Gable Wall
00			
150'S	2.82	361.61	on Gable Wall
00			
125'S	0.94	363.49	" " "
7P	13.02	377.35	0.10 364.33 ✓
00			
100'S	11.76	365.59	" " "
"	13.21	364.14	" " Gutter

377.35 ✓

10

00				
75'S	on Wall	9.83		367.52
00				
50'S	" "	7.71		369.64
00				
25'S	" "	5.61		371.74
00				
77'S	" " at Drive	3.78		373.57
"	" " End in "	5.66		371.69
00				
00	" " " "	5.04		372.31
00				
52'N	" " " "	4.65		372.70
00				
52'N	" Wall of Drive	2.66		374.69
00				
25'N	on "	0.98		376.37
01'E				
25'N	Base "	2.7		374.7
7P	6.70	380.12	3.93	373.42 ✓
01'E				
67'N	on Wall	0.0		380.12
"	" Base "	3.9		376.2
17'E				
67'N	on Wall	0.0		380.1
"	Base "	5.9		375.2
17'E				
75'N	" "	6.1		374.0
17'E				
100'N		5.8		374.3
17'E				
125'N		5.5		374.6
17'E				
150'N		5.6		374.5
17'E				
175'N		5.4		374.7
17'E				
200'N		5.2		374.9
17'E	= Div Wall			
229'N	Base	4.4		375.7
17'E				
229'N	on Top Wall	7.06		380.7

Cont. Page 11

380.12 ✓

0+25

229'N	4.3	375.3
200'N	5.4	374.7
175'N	5.5	374.6
150'N	5.6	374.5
125'N	5.7	374.4
100'N	5.7	374.4
75'N	5.9	374.2
50'N	6.1	374.0
25'N	6.1	374.0
0.0 = E Base line	6.7	373.4
25'S	7.3	372.8
50'S	7.8	372.3
75'S	7.8	372.3
100'S	7.4	372.7
125'S	7.6	372.5
150'S	7.7	370.4
155'S = Top Bank	11.1	369.0
15' E	2.7	370.4
150'	8.4	371.7
11' E		
100'S		
12' E		
75'S	8.3	371.8
10' E		
50'S	7.8	372.3
0 0		
20'S on Wall	7.45	372.67
0 0		
20'S "	7.95	372.27

380.12

11

0+50

152'S = Bank	12.2	367.9
142'S	9.2	370.9
125'S	7.6	372.5
100'S	7.4	372.7
75'S	7.5	372.6
50'S	7.7	372.4
25'S	7.2	372.9
0 = E Base line	6.5	373.6
25'N	6.0	374.1
50'N	5.9	374.2
75'N	5.8	374.3
100'N	5.7	374.4
125'N	5.6	374.5
150'N	5.4	374.7
175'N	5.3	374.8
200'N	5.3	374.8
229'N = Base of Wall	5.2	374.9
0+75		
229'N = Base Wall	5.2	374.9
200'N	5.2	374.9
175'N	5.3	374.8
150'N	5.4	374.7
125'N	5.4	374.7
100'N	5.6	374.5

380.12

75'N	5.8	374.3
50'N	5.8	374.3
25'N	5.9	374.2
0 = Base Line	6.0	374.1
25'S	6.8	373.3
50'S	7.6	372.5
75'S	7.4	372.7
100'S	7.5	372.6
125'S	7.7	372.4
139'S	8.5	371.6
150'S = Top Bank	10.8	369.3
1+00		
151'S = Top Bank	11.0	369.1
145'S	9.1	371.0
125'S	7.8	372.3
100'S	7.7	372.4
75'S	7.3	372.8
50'S	7.7	372.4
25'S	6.8	373.3
0 = Base Line	6.5	372.6
25'N	6.6	373.5
50'N	5.7	374.4
75'N	5.6	374.5
100'N	5.4	374.7
125'N	5.4	374.7

380.12

150'N	5.3	374.8
175'N	5.1	375.0
229'N Base Wall	4.7	375.4
" on Wall	11.03	381.15
	1+50	
229'N	4.5	375.6
200'N	4.8	375.3
150'N	5.2	374.9
100'N	5.1	375.0
50'N	5.6	374.5
0 = Base Line	6.5	373.6
50'S	6.4	373.7
100'S	7.2	372.9
148'S = Top Bank	8.9	371.2
178'E		
60'S = W Bank Ditch	7.4	372.7
176'E		
60'S = E " "	8.4	371.7
178'E		
60'S = E " "	7.4	372.7
179'E		
100'S = W " "	8.6	371.5
182'E		
100'S = E " "	11.4	368.7
185'E		
100'S = E Bank " "	8.0	372.1
175'E		
148'S = W " "	9.1	371.0
187'E		
148'S = E " "	17.8	362.3
197'E		
148'S = E " "	8.4	371.7



38012

	2+00		
148'S = Top Bank	8.9	371.2	
148'S	7.9	372.2	
100'S	7.5	372.6	
50'S	6.8	373.3	
0 = Base Line	6.2	373.9	
50'N	5.6	374.5	
100'N	4.9	375.2	
150'N	4.3	375.3	
200'N	4.6	375.5	
229'N Base of Wall	4.0	376.1	
" on Wall	+1.47	381.59	
	2+50		
229'N of Wall	3.4	376.7	
200'N	4.1	376.0	
150'N	4.4	375.7	
100'N	4.5	375.6	
50'N	5.0	375.1	
0 = Base Line	5.5	374.6	
50'S	6.4	373.7	
100'S	6.8	373.3	
152'S = Top Bank	7.8	372.3	
	3+00		
150'S	6.7	373.4	
100'S	6.0	374.1	

38012  
3+00 Cont.

50'S	5.9	374.2
0 = Base Line	5.5	374.6
50'N	4.7	375.4
100'N	4.4	375.7
150'N	4.0	376.1
200'N	3.6	376.5
229'N Base Wall	3.2	376.9
" on Top "	+2.52	382.64
	3+50	
229'N of Wall	3.3	376.8
200'N	3.5	376.6
150'N	3.8	376.3
100'N	3.8	376.3
50'N	4.5	375.6
0 = Base Line	4.9	375.2
50'S	5.3	374.8
100'S	5.9	374.2
150'S	6.1	374.0
157'S = Top Bank	6.4	373.7
170'S	14.8	365.3
195'S	16.0	364.1
	4+00	
195'S	14.8	365.3
170'S	13.4	366.7
157'S = Top Bank	6.2	373.9

4100 Cont.

100'S	5.1	375.0
50'S	4.7	375.4
0 = L Base Line	4.5	375.6
50'N	4.3	375.8
100'N	3.5	376.6
150'N	3.9	376.2
200'N	3.2	376.9
229'N of Wall	3.0	377.1
" " on "	72.20	383.32
4 to 50		
229'N of Wall	2.5	377.6
200'N	3.0	377.1
150'N	2.9	377.2
100'N	3.1	377.0
50'N	3.9	376.2
0 = L Base Line	3.8	376.3
50'S	4.2	375.9
100'S	4.7	375.4
150'S	5.8	374.3
155'S = Top Bank	6.6	373.5
170'S	13.0	367.1
195'S	14.4	365.7
5+00		
195'S	12.5	366.6
170'S	12.4	367.7

5+00

38012-

157'S = Top Bank	5.1	374.4
150'S	5.1	375.0
100'S	4.4	375.7
50'S	3.9	376.2
0 = L Base Line	3.8	376.3
50'N	3.6	376.5
100'N	2.3	376.8
150'N	2.8	377.3
200'N	2.9	377.2
229'N of Wall	2.6	377.5
" " on "	73.84	383.96
5+50		
229'N of Wall	2.1	378.0
200'N	2.5	377.6
150'N	2.4	377.7
100'N	3.0	377.1
50'N	3.1	377.0
0 = L Base Line	3.5	376.6
50'S	4.3	375.8
100'S	4.0	376.1
150'S	4.8	375.3
158'S = Top Bank	5.5	374.6
170'S	12.5	367.6
196'S	14.7	365.4
Cont. P-15		

38912

6+00

195'S	16.7	363.4
170'S	14.5	365.6
155'S	6.1	374.0
150'S	5.5	374.6
100'S	4.1	376.0
50'S	3.9	376.2
0 - Base Line	3.3	376.8
50'N	3.2	376.9
100'N	2.6	377.5
150'N	2.3	377.8
200'N	2.3	377.8
229'N - at Wall	1.6	378.5
" on "	+4.23	384.95

6+50

229'N at Wall	1.4	378.7
200'N	1.9	378.2
150'N	2.2	377.9
100'N	2.6	377.5
50'N	3.2	376.9
0 - Base Line	3.3	376.8
50'S	3.6	376.5
100'S	4.3	375.6
150'S	5.7	374.4
170'S	17.3	362.8
195'S	18.3	361.8

38912

15

TD	57.3	382.40	343	376.67
65'S E				
135'S = E. Ditch in Bottom			9.0	373.4
65'S E				
140'S = W Bank Ditch			7.6	374.8
663'S E				
140'S in R "			8.0	374.4
671'S E				
153'S in R "			16.0	366.4
TD	56.5	382.41	564	376.76
60'S E				
155'S			8.1	374.3
673'S E				
155'S			8.3	374.1
670'S E				
170'S = Top Slope			19.5	362.9
680'S E = } find 24" Conc. Pipe			16.3	366.1 on H/Wall
170'S				
" " " on Floor			19.7	362.7
672'S E				
157'S = W Ditch			8.7	373.7
705'S E				
157'S E Bank Ditch			8.7	373.7
680'S E				
145'S = W Bank			8.7	373.7
709'S E				
145'S = E " "			8.7	373.7
713'S E				
145'S in Wash			14.2	368.2
730'S E				
145'S on Bank			7.6	374.8
730'S E				
140'S			7.6	374.8
710'S E				
140'S			7.6	374.8
		7700		
195'S			18.3	364.1
170'S = E Ditch			17.0	365.4
157'S " "			14.1	368.3
145'S			8.1	374.3
717'S E				
150'S } E Bank Ditch			8.4	374.0

7+00 Cont.

100'S	6.4	376.0
50'S	5.6	376.8
0 = L Base line	5.1	377.3
50'N	5.2	377.2
100'N	4.5	377.9
150'N	3.6	778.8
200'N	3.2	379.2
229'N at Wall	2.5	379.9
" on Wall	+2.66	385.07
7+50		
228'N at Wall	3.1	379.3
200'N	3.1	379.3
150'N	3.8	378.6
100'N	4.5	377.9
50'N	4.8	377.6
0 = L Base line	4.7	377.7
50'S	5.7	376.7
80'S	5.4	377.0
100'S	6.8	375.6
115'S	7.3	375.1
150'S	6.7	375.7
156'S = Top Bank	7.7	374.7
170'S	14.5	367.9
195'S	14.6	367.8

8+00

195'S	12.1	370.3
170'S	12.1	370.3
155'S	6.6	375.8
150'S	5.8	376.6
100'S	6.5	375.9
50'S	5.2	377.2
0 = L Base line	4.7	377.7
50'N	4.7	377.7
100'N	4.6	377.8
150'N	3.4	379.0
200'N	3.1	379.3
228'N at wall	2.9	379.5
" " on "	7.2.28	386.39
843' E of 228'N on End of Wall	1.3.30	385.71
8+50		
228'N	2.7	379.7
200'N	3.6	378.8
150'N	3.8	378.6
100'N	4.4	378.0
50'N	5.1	377.3
0 = L Base line	5.4	377.0
50'S	5.2	377.2
100'S	5.5	376.9
150'S	5.3	377.1
161'S = Top Bank.	5.6	376.8

## Andrew Jackson School

382.41

84.50 Cent

170'S	8.8	373.6
195'S	9.6	372.8
8487.5 = North & South Cobble Wall		
195'S	8.2	374.2
170'S on End of Wall	5.65	376.76
170'S * Ground at end of Wall	7.7	374.7
150'S on Wall	5.56	376.85
100'S " "	5.29	377.12
50'S " "	5.15	377.26
0 " " at Base line	4.82	377.59
50'N on Wall	4.49	377.92
100'N " "	4.25	378.16
150'N " "	4.01	378.40
169.8'N " " N-end.	3.73	378.68
171'N	3.2	379.2
200'N	3.0	379.4
228'N	2.5	379.9
84894 = East line Property - <sup>Approx</sup> East Top Wall		
228'N	2.5	379.9
200'	3.0	379.4
150'N = Base Wall	5.7	376.7
100'N	6.9	375.5
70'N on Flare Inlet	7.60	374.81
Note A in Culvert 7' West.		

382.41

17

70'N on Wall over inlet	4.43	377.98		
50'N	7.1	375.3		
0' - Base line	7.4	375.0		
50'S	8.0	374.4		
100'S	8.0	374.4		
150'S	7.5	374.9		
170'S	7.5	374.9		
TP	2.82	379.32	5.91	376.50
TP	0.48	366.76	13.04	366.28
TP	4.84	360.52	11.08	355.68
chk starting P.M.	8.85	351.67		351.67
				0.0

Finished 7-27-43

at 10' E  
Top of  
5th

Cross Section Gainer  
West line of Azusa to 100' West

1+0

0+85

0+50

1.9' S of N.L. = N.Y. Power Pole

0+32

0+24

0+0 = N.L. AZUSA

B.M. 587 35.01

29.14

N.Y. Note  
pole  
AZUSA  
R. 1/101  
1630-78

INDEXED  
C.S.K.I.

Sept. 14-73

515500  
81151  
8199

Note: 5 Stray Wire  
Face of South 18  
of N.L.  
0-300 to 0+200

		N.L. 50' MARK					
28.9	29.9	30.1	29.5	29.6	29.3	29.4	
5.1	5.7	5.2	5.8	5.7	6.0	5.9	
50	25	18	17	7	20	25	
		N.L. 50' MARK					
29.4	30.1	30.1	29.8	29.7	29.3	29.80	
5.9	5.2	5.2	5.7	5.5	6.1	5.51	
50	25	20	18	7	27	27	N.Y. Note C.S.K.I.
		N.L. 50' MARK					
29.5	30.1	30.1	29.5	29.6	29.3	29.83	
5.8	5.2	5.2	5.5	5.7	6.0	5.28	
50	25	7	5	5	25	27	N.Y. Note C.S.K.I.
		N.L. 50' MARK					
30.0	30.6	30.2	29.8	29.6	29.8	30.08	
5.3	4.7	4.6	5.6	5.7	5.8	5.23	
50	25	7	25	5	25	27	N.Y. Note C.S.K.I.
		N.L. 50' MARK					
	30.5	31.6	30.1	29.5	30.04		
	4.8	3.7	5.3	4.8	5.22		
	50	25	25	25	27		N.Y. Note C.S.K.I.
		N.L. 50' MARK					
30.5	31.2	31.9	31.0	30.0			
4.8	4.1	4.4	4.3	4.2			
50	25	20	20	20			

35.01  
N.Y. Note  
50' MARK

240

1450

$$\frac{269}{84}$$

$$\frac{289}{84}$$

5581

111 Gains

10+25.54  
430  
Fd. 2 1/2" Pipe

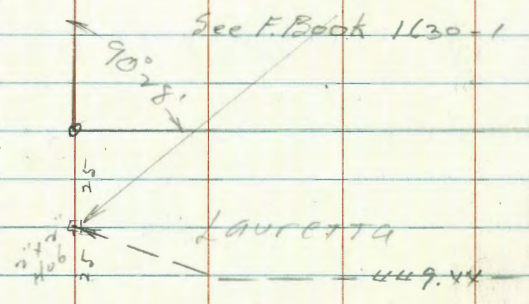
Mildred

Gashen St.

See R of S Map 543

See F. Book 1630-1

50



Lauretta

Riley

Cont. Mont  
Pueblo Cor.

Plotted TPS-1134 20  
10-27-46 1135

ST 4636

$\Delta = 30^{\circ} 59' 10''$   
 $R = 187.23$

Fd. 2 1/2" Pipe 4+97.19

4+51.04

Fd. 2 1/2" Pipe 4+104.29

Fd. old 2x2 3+48.75

7+94.94

Set next Hub 2+69.94

2+44.94

HUENEME

Set next Hub

RE. 409

Fd. 2 1/2" pipe at disk

140.13

184.28



Xsec Hueneke St.  
Riley to Mildred St.

C. Moore  
Samuel Meyer  
M. Moore  
10-21-43

indexed  
C.S.K.

LT.

R

RT

21

T.P. 12.58 183.86 0.05 171.28

1 + 75

1 + 50

1 + 25

0 + 75

0 + 50

0 + 25

N.L. Riley

379. ON E.H. HUENEKE ST.  
0 TO Pueblo Line & Riley

T.P. old 1.25 171.33 11.5x 169.98  
new Cor Hub 0.79 181.50 180.71  
FB. 1630-26

LAURETTA  
HUENEKE

1665 167.9 169.2  
 $\frac{2.8}{25}$  3x  $\frac{2.1}{25}$

1643 1661 1675  
 $\frac{7.0}{25}$  5x  $\frac{3.8}{25}$

1642 1659 1668  
 $\frac{7.1}{25}$  5x  $\frac{4.5}{25}$

1657 1665 1667  
 $\frac{5.0}{25}$  4.8  $\frac{4.0}{25}$

1653 1652 1650  
 $\frac{5.0}{25}$  4.1  $\frac{4.3}{25}$

1633 163.2 163.2  
 $\frac{8.0}{25}$  8.1  $\frac{8.1}{25}$

159.5 159.5 159.50  
 $\frac{11.8}{25}$  11.8  $\frac{11.53}{25}$  Hub

171.33

Hoenen  
E.L. Sta.

4 + 0.89

3 + 75

T.P. 12.99 ✓ 209.37 2.14 196.38

3 + 50

3 + 25

2 + 94.94 N.L. Laurerza

T.P. 12.93 ✓ 196.50 2.27 183.59

2 + 69.94 S. Laurerza

2 + 44.94 S.L. Laurerza to West

2 + 25

✓  
183.86

22

Lt  
203.3

£  
205.7

Rt  
209.0

$\frac{6.1}{25}$

3.7

$\frac{0.38}{25}$

TOP  
PIPE

196.7

199.7

202.4

$\frac{12.7}{25}$

9.7

$\frac{7.0}{25}$

209.37

191.5

195.1

196.7

$\frac{5.0}{25}$

1.8

$\frac{1.0}{25}$

187.2

189.6

191.6

$\frac{7.3}{25}$

6.9

$\frac{4.9}{25}$

180.7

183.7

186.0

$\frac{15.8}{25}$

12.8

$\frac{10.5}{25}$

196.51

176.6

179.5

186.1

$\frac{7.3}{25}$

4.4

$\frac{2.70}{25}$

xxx Hub

172.7

175.7

177.0

$\frac{11.7}{25}$

8.2

$\frac{6.9}{25}$

171.2

172.6

174.4

$\frac{12.7}{25}$

11.3

$\frac{9.5}{25}$

183.86

7+75

7+50

7+00

T.P. 0.05  $\checkmark$  22220 9.81 max 156+50 New xsec. of Mildred  
N.H. STA.

5+95.54

5+46.30

4+97.19 Sec. Radial

T.P. 10.33  $\checkmark$  231.96 0.00 221.63

4+51.04

T.P. 2" pipe 10.64  $\checkmark$  221.63 0.28 208.99

209.37

197.2 <sup>L</sup> 199.9 <sup>A</sup> 207.7 <sup>R</sup> 213.425.0 22.3 11.5 8.8  
35 25 25 25

200.5 203.2 210.8 217.0

21.7 19.0 11.4 5.4  
35 25 25 25

209.0 212.4 217.2 221.8

13.4 9.8 5.0 0.4  
35 25 25 25 $\checkmark$  22220

215.0 217.0 220.0 225.2

17.0 15.0 12.0 6.8  
35 25 25 25

218.1 220.1 224.8 230.1

13.9 11.4 7.0 1.88 Top 2" pipe  
35 25 25 25

219.2 220.1 224.7 230.1

12.8 11.9 7.3 1.7  
35 25 25 25

217.2 218.5 223.4 228.0

14.8 13.5 8.0 4.01 = Top 2" pipe  
35 25 25 25

231.96

214.7 217.7 220.3

6.9 3.9 1.3  
25 25 25

221.63

Indexed  
c.s.k.

Mildred  
N.L. STA.

check to B.M. 2" pipe <sup>NE Cor</sup> Mildred & Goshen 10.00 175.00 175.05

10 + 5.50 E.W. Goshen ST

10

9 + 50

T.P. 0.27 185.04 12.84 184.77

9 + 00

8 + 50

T.P. 0.43 197.61 12.78 197.18

8 + 25

8 + 00

T.P. 0.36 209.46 13.10 209.10  
22220

L7

8

17

21

FB. 1630-26

169.5 172.4 175.0

$\frac{15.5}{25}$  14.6  $\frac{10.9M}{25}$  2" pipe

170.7 171.4 173.8 176.4

$\frac{14.3}{35}$   $\frac{13.6}{25}$  11.4  $\frac{8.6}{25}$

173.8 174.7 177.0 180.0

$\frac{11.4}{35}$   $\frac{10.3}{25}$  8.9  $\frac{5.0}{25}$

185.04

178.8 179.8 182.7 185.8

$\frac{18.8}{35}$   $\frac{17.8}{25}$  14.9  $\frac{11.8}{25}$

186.0 187.2 190.7 195.2

$\frac{11.6}{35}$   $\frac{10.4}{25}$  6.9  $\frac{2.4}{25}$

197.61

189.8 191.5 196.1 200.1

$\frac{17.7}{35}$   $\frac{18.0}{25}$  13.4  $\frac{3.4}{25}$

194.7 197.2 202.9 207.4

$\frac{14.8}{35}$   $\frac{12.3}{25}$  6.6  $\frac{2.1}{25}$

209.46

Indexed  
C.S.R.

X sec Fresno St.  
Yuma Hwy 75'

Moore  
10-27-43

L7

E

R7

25

Reduced & Plotted on Green profile

12-212-43

0+75

0+55

0+35

0+10

0+00 = N.L. Yuma St

TOP 11.71 45.80 027 34.09  
B.M.  
F.B. 1630/70 10.64 34.36 23.74

2x7  
Hub  
B.M.

43.3 43.0 43.7 43.8 44.3  
 $\frac{2.5}{2.5}$   $\frac{2.8}{12}$  2.1  $\frac{2.0}{15}$   $\frac{1.5}{2.5}$

42.5 42.9 41.3 41.6 41.9 43.4 43.5  
 $\frac{3.3}{2.5}$   $\frac{2.9}{11}$   $\frac{4.5}{7}$  4.2  $\frac{3.9}{12}$   $\frac{2.4}{18}$   $\frac{2.3}{2.5}$

41.8 42.0 36.2 36.2 36.7 42.7 42.7  
 $\frac{4.0}{2.5}$   $\frac{3.8}{15}$   $\frac{2.6}{7}$  9.6  $\frac{2.1}{14}$   $\frac{3.1}{17}$   $\frac{3.1}{2.5}$

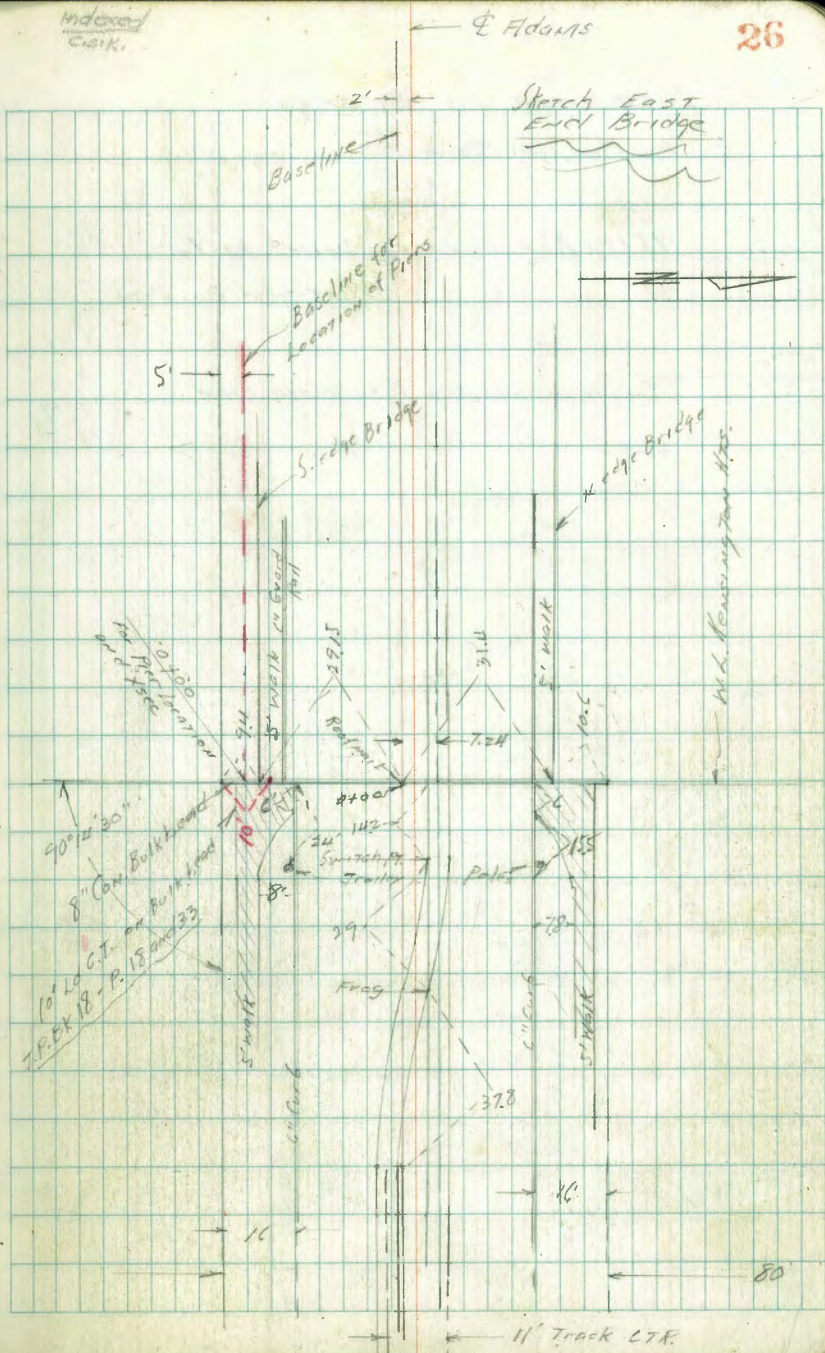
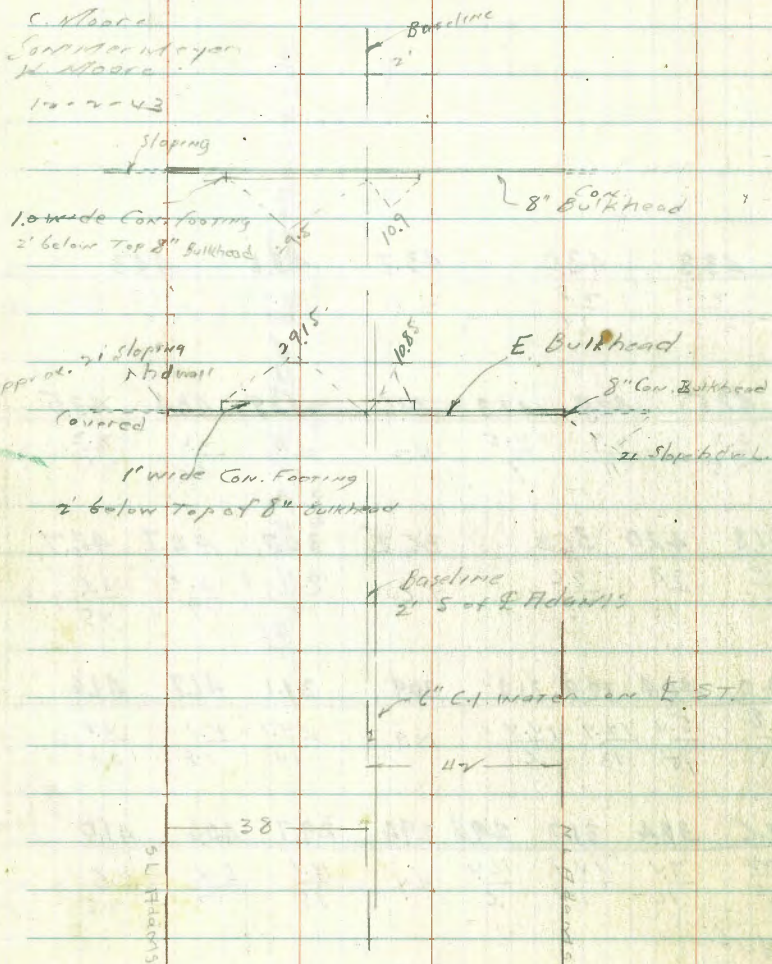
40.0 40.4 32.9 31.4 30.9 31.1 41.7 41.6  
 $\frac{5.8}{2.5}$   $\frac{5.4}{15}$   $\frac{12.9}{13}$   $\frac{14.4}{6}$  14.9  $\frac{14.7}{14}$   $\frac{4.1}{18}$   $\frac{4.7}{2.5}$

37.6 38.4 31.0 29.4 29.4 29.7 40.6 41.0  
 $\frac{8.22}{2.5}$   $\frac{7.4}{10}$   $\frac{14.8}{12}$   $\frac{16.4}{6}$  16.4  $\frac{16.1}{15}$   $\frac{5.4}{17}$   $\frac{4.8}{2.5}$

ON Hub  
Cor.

45.80

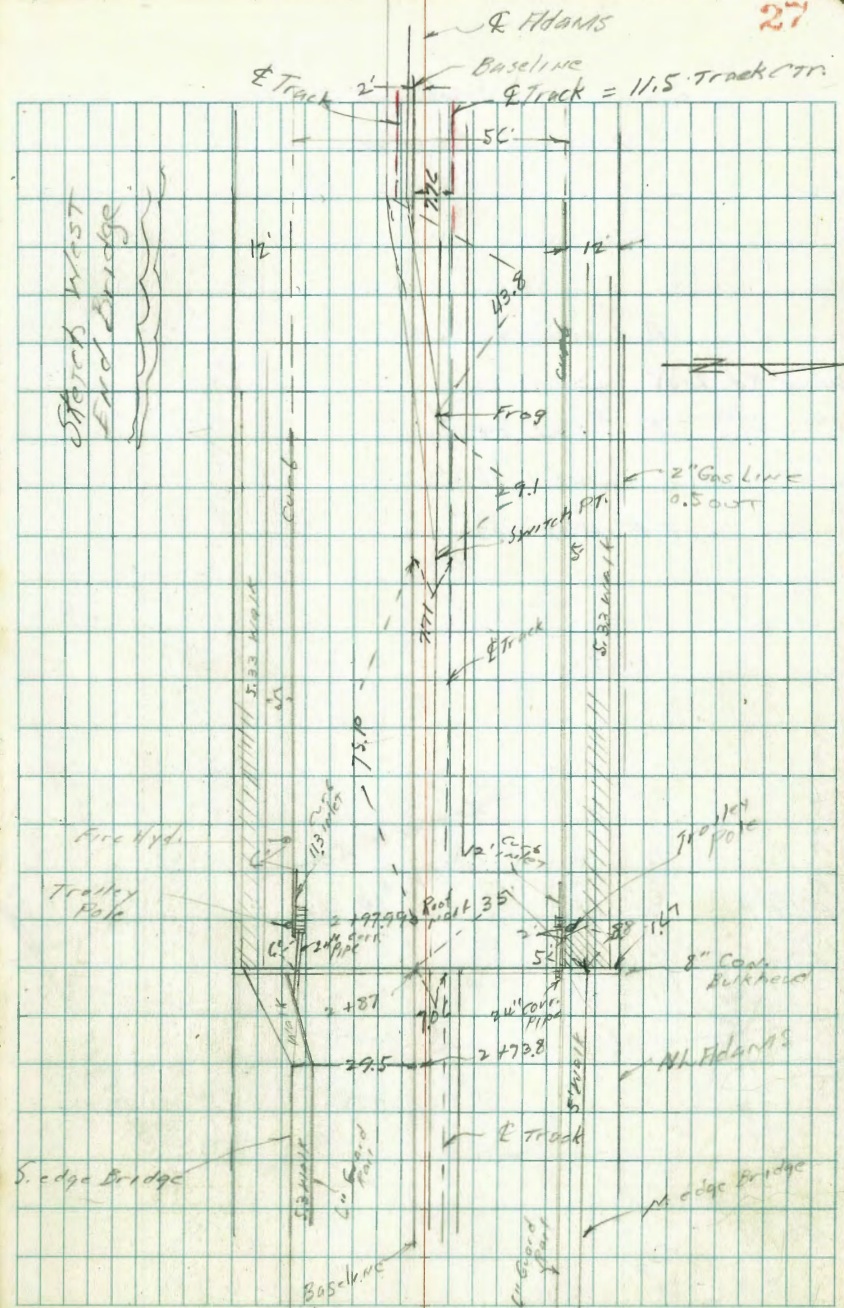
Location of Wood Bridge  
and R.R. Tracks on  
Adams Ave. at Ward Rd.



Location of Bridge  
and RR Tracks

75.10 = Rel. Curve, Switch pt. to  
West end Bridge

Bridge wider at West end.



Location of Ward Rd.  
Under Bridge

A = 42° 45' LT

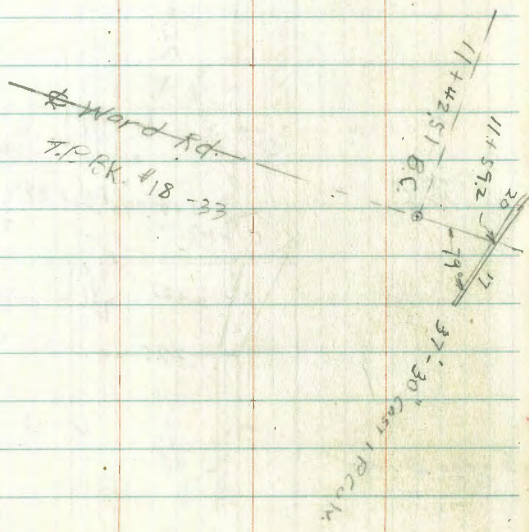
Ward Rd. P.R. = 350

I = 136.99 ✓

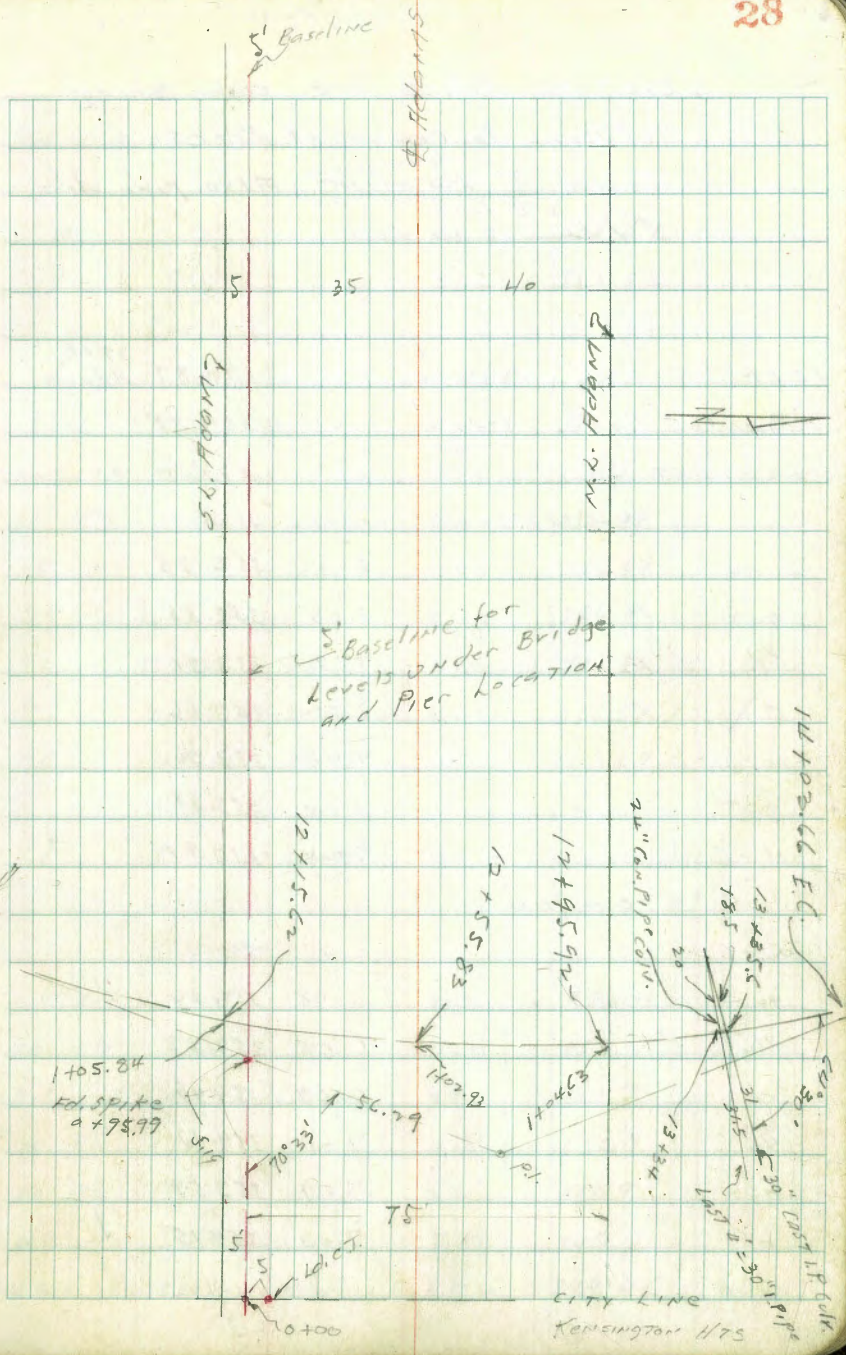
L = 261.15'

I.P. #18-33

E-258



5.19  
26.79  
31.98





Levels on Adams Ave. under Bridge

offsets to center of Piers

from 5' Baseline. Also pier di-3' x 4' = S face  
= W face

SEBP 1.25 372.12 370.87 37th Adams

T.P. rail 1.21 361.18 1225 359.87

S.W. 6' 10' CT Adams Terrace 8.73 353.05 354.10

0-100 W.L. Terrace Dr.

S cb 8.23 352.95

gut 8.63 352.55

S 1/4 12' 7.79 353.27

C 7.52 353.66

N 1/4 7.48 353.70

gut 7.80 353.38

N cb 7.24 353.94

0-100

N cb 6.43 354.75

gut 6.98 354.20

1/4 6.65 354.53

C 6.69 354.49

1/4 7.01 354.17

gut 7.59 353.59

S cb 7.03 354.15 ✓

0-50

Sob &amp; gut in drive 6.10 354.28

1/4 5.94 355.26

C 5.67 355.51

1/4 5.66 355.52

gut to drive 6.18 355.00

0+00 Top F. Bulkhead

5 LT of 5' Baseline 4.64 356.57 Top Bulkhead

10.5 LT slope of Bulkhead 8.09 353.09 covered up to S.

11 RT Bridge Pav. 4.39 356.99

35 RT " " 4.49 356.69

59 gut Pav 4.76 356.42

" Top end cb 4.34 356.86

75 Top 8" Bulkhead 4.64 356.54 ✓

96 in slope of " 17.91 343.27

T.P. 15.2 353.18 ✓ 9.52 351.26

0+01

25 LT. 2.8 350.4

10 LT 0.5 352.7

B.L. = 5' Baseline 2.1 354.1

4 RT 2.3 350.9

30 RT 2.4 350.8

43 RT 5.5 347.7

45.3 RT 15 x 15 Pool 3.72 349.46 ✓ Top

49.6 RT	1.5 x 2	Pier	5.46	347.72
57.3 RT	1.5 x 2	"	5.43	347.75
64.1 RT	1.5 x 2	"	5.41	347.77
72 RT			6.2	347.0
95 RT			9.3	343.9 <sup>1</sup>
0 + 0.45				
11.4 RT	2 x 2	Pier	4.33	348.85
15.8 RT	2 x 2	Pier	4.34	348.82
22.7 RT	2 x 2	Pier	4.35	348.83
27.2 RT	2 x 2	Pier	4.36	348.82
0 + 10.8				
25 LT			4.5	348.7
8.6			4.4	348.8
25 RT			4.9	348.3
28.9 RT	2 x 2	Pier	4.11	349.07
34.5 RT	1.5 x 2.5	"	4.85	348.33
37.9 RT	1.5 x 2	"	4.85	348.23
42.7 RT	1.5 x 2	"	4.86	348.32
46.1 RT	1.5 x 2.5	"	4.89	348.29
50 RT ground			5.9	347.3
50.2 RT	2 x 2	Pier	3.86	349.32
57.0 RT	2 x 2	"	3.91	349.27
64.2 RT	2 x 2	"	3.94	349.22
70 RT			9.0	344.2
95 RT			13.8	339.2

25 LT			7.0	346.2
12 LT			4.8	348.2
8.6			5.6	347.6
11 RT			6.3	346.9
17.2 RT	1.5 x 2	Pier	5.89	347.29
15.8 RT	1.5 x 1.5	"	5.88	347.30
27.8 RT	1.5 x 1.5	"	5.85	347.33
26.2 RT	1.5 x 2.2	"	5.81	347.37
34 RT			6.1	347.1
55 RT			8.5	344.7
75 RT			14.4	338.8
95 RT			19.0	334.2
0 + 23.5				
25 LT			8.4	344.8
12 LT			6.5	346.7
8.6			6.8	346.4
10 RT			6.6	346.6
26 RT			6.4	346.8
31 RT			10.1	343.1
53 RT			10.8	342.4
70 RT			15.8	337.4
75 RT			16.7	336.5
95 RT			23.2	330.0
0 + 25.6				
33.5 RT	1.5 x 2.5	Pier	10.31	342.87

0 + 25.0

37.7 RT	1.5 x 2 Pico	10.31	392.87
42.6 RT	1.5 x 2 "	10.32	392.86
46.6 RT	1.5 x 2.5 "	10.32	392.86
57.3 RT	2 x 2 "	12.53	390.65
67.2 RT	2 x 2 "	12.53	390.65

0 + 28.5

45 LT		9.3	393.9
14 LT		8.1	395.1
B.L.		7.9	395.3
10 RT		8.0	395.2
28 RT		7.2	396.0
31 RT		9.7	392.5
47 RT		10.8	392.9
68 RT		17.7	385.5
75 RT		19.3	383.9
83 RT		23.7	389.5
95 RT		25.7	387.5

0 + 37

25 LT		11.1	392.1
12 LT		9.6	393.6
B.L.		9.5	393.7
30 RT		10.1	393.1
54 RT		15.5	387.7
66 RT		20.8	382.9
75 RT		23.1	380.1

83 RT		29.6	326.6
95 RT		29.5	323.7
TR	180	342.91	1209 341.09 ✓

0 + 41.8

25 LT		4.2	390.7
14 LT		0.0	392.9
B.L.		0.1	392.8
4 RT		0.6	392.3
7 RT		2.9	390.0
28 RT		2.9	390.0
30 RT		5.5	387.9
32.2 RT	1.5 x 1.5 Pico	5.94	386.97
37.7 RT	1.5 x 1.8 "	5.93	386.98
42.6 "	1.5 x 2 "	5.93	386.98
48.4 RT	1.5 x 2.5 "	6.12	386.79
50 RT	ground	6.5	386.9
57.3 RT	2 x 2 Pico	9.62	383.29
59 RT	ground	9.8	383.1
68.4 RT	2 x 2 Pico	9.64	383.27
69 RT		13.4	389.5
73 RT		13.9	389.0
78 RT		17.4	385.7
95 RT		19.7	383.2

0 + 43.5

9.4 RT	1.5 x 2.2 Pier	2.81	340.10
15.7 RT	1.5 x 1.7 "	2.80	340.11
22.7 RT	1.5 x 1.7 "	2.82	340.09
29.1 RT	1.5 x 2.2 "	2.85	340.06

0 + 50

25 LT		4.3	338.6
12 LT		2.4	340.5
B.L.		2.9	340.0
9 RT		3.9	339.0
27 RT		5.9	337.0
55 RT		13.2	329.7
65 RT		16.2	326.7
75 RT		20.4	322.8
83 RT		22.2	320.7
95 RT		26.0	316.9

0 + 55

25 LT		5.0	337.9
12 LT		4.4	338.5
B.L.		5.2	337.7
23 RT		8.3	334.6
27 RT		16.1	326.8
45 RT		16.1	326.8
64 RT		16.4	326.5
75 RT		21.7	321.2
85 RT		23.4	319.7
95 RT		27.9	315.0

0 + 57.7

30 RT	1.5 x 4.5 Pier	16.54	326.39
37.8 RT	1.5 x 2 "	16.54	326.37
42.8 RT	1.5 x 2 "	16.54	326.37
50.5 RT	1.5 x 2.5 "	16.54	326.39
57.3 RT	2 x 2 "	16.45	326.96
70.1 RT	2 x 3.5 "	19.05	323.86

0 + 63

25 LT		7.5	335.2
17 LT		8.0	334.3
B.L.		10.2	332.7
20 RT		10.7	332.2
29 RT		15.5	327.2
35 RT		16.6	326.3
47 RT		18.0	324.9
62 RT		20.8	322.1
75 RT		26.9	316.0
83 RT		27.8	315.0
95 RT		32.6	310.3

0 + 67.5

25 LT		9.7	333.2
17 LT		10.2	332.7
B.L.		12.4	330.5
4 RT		15.3	327.4
67 RT	2.75 x 2 Pier	15.07	327.82
15.4 RT	2.75 x 1.6 "	15.09	327.82

227 RT	1.5 x 1.7 Pier	15.19	327.72
31.9 RT	1.5 x 2.2 "	15.081	327.83
34	ground	15.4	327.5
40	"	22.0	320.9

T.P. 1.40 331.25 13.06 329.85

0+73.9

25 LT		12.1	330.0
12 LT		2.3	329.0
B.W.		3.1	328.2
6 RT		4.4	326.8
12 RT		7.7	323.6
24 RT		11.3	320.0
28.3 RT	1.5 x 2.5 Pier	11.64	319.61
37.6 RT	1.5 x 2 "	11.73	319.52
40 RT	ground	11.8	319.9
42.7 RT	1.5 x 2.5 Pier	11.80	319.95
51.9 RT	1.5 x 2.5 "	11.84	319.93
53 RT	ground	12.0	319.2
55 RT	"	15.6	315.6
57.0 RT	2 x 2 Pier	15.52	315.73
71.5 RT	2 x 4 "	15.58	315.67
72 RT		19.8	311.8
80 RT		20.4	310.8
95 RT		25.1	306.2

T.P. 2.81 313.01 24.05 310.20 ✓

0+88

25 LT		+ 8.5	321.5
17 LT		+ 3.1	316.1
3 RT		1.4	311.6
19 RT		1.8	311.2
23 RT		5.2	307.8
45 RT		5.8	307.2
57 RT		5.6	307.8
59 RT		3.3	309.7
75 RT		5.2	307.8
88 RT		6.2	306.8
95 RT		6.4	306.6
		0+90.7	
0.5 RT	0.25 Top 6" Pier	0.99	312.02
22.0 RT	End " " "	1.96	311.05
26.4 RT	1.5 x 2.5 Pier	5.71	307.80
37.8 RT	1.5 x 1.5 "	5.65	307.36
42.8 RT	1.5 x 1.5 "	5.14	307.37
55.7 RT	1.5 x 3.5 "	5.59	307.82
73.5 RT	2 x 2 "	4.46	308.55
		0+94.4	
36 RT	1.5 x 1.5 Pier	3.75	309.26
15.5 RT	1.5 x 1.5	3.81	309.20

313.01 ✓

22.7 RT	1.5 x 1.5 Pier	3.82	309.19
34.6 RT	1.5 x 1.5 "	3.85	309.16
	0.494		
25 LT		+ 6.0	319.0
12 LT		0.5	312.5
BL		3.7	309.3
15 RT		4.8	308.2
35 RT		5.4	307.6
55 RT		5.8	307.2
75 RT		6.3	306.7
95 RT		6.7	306.3

TR. H. <sup>spike</sup> BIA 1.17 313.06 1.17 311.89 MKD 321.83  
?

25 LT		3.9	309.2
12 LT		4.3	308.8
BL		4.8	308.3
35 RT		5.6	307.5
75 RT		6.6	306.5
95 RT		7.1	306.0

25 LT		4.2	308.9
12 LT		4.7	308.4
BL		5.1	308.0

313.06

34

24 RT	edge pav	5.8	307.3
25.4 RT	1.5 x 1.5 Pier	7.20	305.86
37.4 RT	1.5 x 1.5 "	7.24	305.82
40 RT	edge pav	6.0	307.1
42.7 RT	1.5 x 1.5 Pier	7.21	305.85
56.0 RT	1.5 x 3.5 "	7.24	305.82
60 RT	edge pav	6.3	306.8
74.5 RT	2 x 2 Pier	6.23	306.83
75 RT	ground	6.8	306.3
95 RT	on Pav	7.2	305.9
	1.421		
25 LT		4.4	308.7
12 LT		5.0	308.1
BL		5.0	308.1
37.4 RT	1.5 x 1.5 Pier	4.56	308.5
40 RT	ground	6.3	306.8
15 RT	"	8.0	305.1
15.2 RT	1.5 x 1.5 Pier	4.74	308.32
22.7 RT	1.5 x 1.5 "	6.71	306.35
29 RT	ground	9.5	303.46
35.2 RT	1.5 x 1.5 Pier	6.78	306.28
40 RT	ground	10.2	302.9
55 RT	"	10.0	303.1
75 RT	"	9.2	303.9
89 RT	"	10.1	303.0
95 RT	"	7.0	306.1

1+31.2

25 LT		4.4	308.7
12 LT		6.1	307.0
B.L.		8.9	304.2
22 RT		11.9	301.2
24.9 RT	1.5 x 1.5 Pico	10.84	302.22
37.8 RT	1.5 x 1.5 "	10.81	302.25
42.7 RT	1.5 x 1.5 "	10.89	302.17
45 RT	ground	12.6	300.5
51.9 RT	1.5 x 3.8 Pico	10.86	302.20
59 RT	ground	12.6	300.5
75.7 RT	2.2 x Pico	9.66	303.90
80 RT	ground	12.1	301.0
81 RT	in ditch	15.2	297.9
102 RT	" "	17.0	296.1
103 RT	Top "	13.2	299.9

1+33

25 LT		5.7	307.9
12 LT		7.2	305.9
B.L.		9.0	304.1
10 RT		9.2	303.9
21 RT		12.0	301.1
42 RT		12.8	300.3
58 RT		14.5	298.6
75 RT	in Cobble ditch	16.4	296.9
102		16.8	296.3
103		13.1	300.0

1+38

25 LT		7.7	305.9
12 LT		8.6	307.5
B.L.		9.3	303.8
4 RT	in Cobble ditch	12.1	301.0
25 RT	" "	13.3	299.8
55 RT	" "	14.3	298.8
82 RT	" "	15.0	298.1
87 RT	" "	15.1	298.0
88 RT	Top "	15.4	300.7
95 RT		12.1	301.0

1+39

75 RT	Wedge 11.45 ditch	15.0	298.1
78 RT	" "	12.8	300.3
83 RT	" "	12.7	300.9
83.5 "	Bay Cobble ditch <sup>to</sup> W	14.8	298.3
87 "	" "	14.9	298.2
87.5 "	Top "	12.4	300.7
95	" "	12.0	301.1

1+45.1

25 LT		8.1	305.0
19 LT	in Cobble ditch	11.2	301.9
1.5 LT	" "	11.8	301.3
B.L.	Top "	10.3	302.8
21 RT	1.5 x 1.5 Pico	10.17	302.89
15.4 RT	1.5 x 1.5	10.20	302.86
17	ground	11.2	301.9

42.7 RT	1.5 x 1.5 Pier	10.20	302.86
36.1 RT	1.5 x 1.5 Pier	10.27	302.79
40 RT	ground	11.9	301.2
55 RT	"	11.6	301.5
75 RT	"	11.5	301.6
82.7 RT	Top ditch	14.2	300.9
84 RT	Bot " to West	14.2	298.9
87 RT	" " "	14.2	298.9
87.5 RT	Top " "	14.2	300.9
95 RT	"	11.6	301.5
147.4			
25 LT	in ditch	10.4	302.7
12 LT	" "	11.6	301.5
5 LT	" "	11.8	301.3
3 LT	Top " "	10.0	303.1
BL	"	10.0	303.1
20 RT	ground	11.5	301.6
24.6 RT	1.5 x 1.5 Pier	10.64	302.92
38 RT	1.5 x 1.5 " "	10.28	302.58
42.7 RT	1.5 x 1.5 " "	10.48	302.58
56.9 RT	1.5 x 3.5 " "	10.55	302.51
60 RT	ground	11.7	301.8
75.7 RT	2 x 2 Pier	9.48	303.6
82.9 RT	Top ditch	11.7	301.8
83.5 RT	in " "	13.6	299.5
86.5 RT	" " "	13.6	299.5
87 RT	Top " "	11.6	301.5

1449			
25 LT	in ditch	10.5	302.6 N+S ditch
7 LT	" "	11.4	301.7
5.5 LT	" "	9.5	303.6
BL	" "	9.7	303.8
1451			
25 LT	in N+S ditch	10.4	302.7
15 LT	" " "	11.1	302.0
12 LT	Top " "	9.0	304.1
10 LT	" ditch to West	9.2	303.9 Cattle ditch
8.5 LT	Bot " "	11.3	301.8
7 LT	" " "	11.3	301.8
5.5 LT	Top " "	9.5	303.6
BL	" "	9.6	303.5
1452.5			
25 LT	Top N+S ditch	8.3	304.8
10 LT	" West " "	9.2	303.9
8.5 LT	Bot " "	11.0	302.1
7 LT	" " "	11.0	302.1
5.5 LT	Top " "	9.6	303.5
BL	" "	9.7	303.8
7			
T.P.	350	307.57	8.99 304.07 ✓
1453.3			
25 LT	" "	11.5	306.1



307.57

7	LT		2.2	306.9
5.5	LT	Cobble ditch	4.1	303.5
4	LT		4.1	303.5
2.5	LT		2.8	309.8
	BL		2.7	309.9
5	RT		3.8	303.8
20	RT		4.9	302.7
24.9	RT	1.5 x 1.5 Pier	4.83	302.79
37.8	RT	1.5 x 1.5 "	4.75	302.82
42.8	RT	1.5 x 1.5 "	4.77	302.80
56.6	RT	1.5 x 3.5 "	4.84	302.73
	"	ground	5.3	302.3
65	RT	"	3.9	303.7
75.3	RT	2x2 Pier	3.01	309.56
76	RT	ground	3.9	303.7
78	RT	Top w/ ditch	3.6	305.0
78.5	RT	Bot. Cobble "	4.4	303.2
81.5	RT	" "	4.3	303.3
82.5	RT	Top " "	2.0	305.6
95	RT		+ 1.0	308.6
T.P.	9.3	313.20	3.50	304.07
	1+69			
25	LT		6.8	306.9
17	LT		5.9	307.3

313.20 ✓

37

8	LT		6.5	306.7
7	LT		7.2	306.0
5.5	LT		8.6	309.6
3	LT	Cobble ditch	8.6	309.6
1.5	LT		7.5	305.7
	BL		7.9	305.3
2.4	RT	1.5 x 1.5 Pier	7.52	305.68
4	RT	ground	8.7	309.5
15.7	RT	1.5 x 1.5 Pier	7.52	305.68
20	RT	ground	9.7	309.0
22.7	RT	1.5 x 1.5 Pier	7.49	305.71
35.8	RT	1.5 x 1.5 "	7.48	305.72
40	RT	ground	9.1	309.1
		1+79		
25	LT		6.5	306.7
15	LT		4.9	308.3
4.5	LT		4.4	308.8
2.5	LT	Cobble ditch lined	5.4	307.8
0.5	LT	with 1/20 Corr. Iron	4.6	308.6
2	RT		6.1	307.1
2.5	RT		5.7	307.5
2.6	RT	1.5 x 2.5 Pier	4.34	308.86
37.8	RT	1.5 x 2 "	4.38	308.82
40	RT		4.8	308.9
42.7	RT	1.5 x 2 Pier	4.39	308.81
54.6	RT	1.5 x 2.5 "	4.37	308.83

57 RT		4.2	308.8
73 LRT	2 x 2 pier	0.43	312.77
75 RT		1.6	311.6
76 RT		+0.3	313.5
77 RT	Cobble ditch	1.9	311.3
80 RT	on Rev. Curve	2.1	311.1
84 RT		+0.7	313.9
85 RT		+0.9	314.1
95 RT		0.0	313.2

T.P. 9.27 31320.83 0.24 312.96

1+83.5

25 LT		15.5	307.3
15 LT		13.0	309.8
6 LT		12.8	310.0
45 LT		12.1	310.7
25 LT	ditch	13.2	309.6
B L		12.3	310.5
2 RT		13.5	309.3
20 RT		12.5	310.3
40 RT		12.1	310.7
55 RT		11.3	311.5
63 RT		9.4	313.9
70.5 RT		9.6	313.2
73 RT		7.3	315.5

74.5 RT	Cobble	10.0	312.8
78 RT	ditch	10.4	312.8
80 RT		8.6	314.2
95 RT		8.6	314.2
	1+90		
25 LT		12.0	310.8
15 LT		10.9	311.9
4 LT	ditch	9.7	313.1
2 LT	"	11.0	311.8
B L		9.7	313.1
12 RT		8.8	314.0
27 RT		7.4	315.8
31 RT		9.7	313.1
40 RT		6.5	316.3
50 RT		6.7	316.1
65 RT		4.9	317.9
60 RT		4.1	318.7
68 RT	cobble ditch	7.2	315.6
72 RT	"	7.5	315.3
73.5 RT		5.6	317.2
85 RT		3.3	319.5
95 RT		0.9	318.9
	1+93.1		
34 RT	1.5 x 2 pier	6.12	316.71
154 RT	1.5 x 1.7 "	6.03	316.80
22.7 RT	1.5 x 1.7 "	6.04	316.79

34.6 RT	1.5 x 2.2 Pipe	6.04	316.79
	1 + 94.9		
27.5 RT	1.5 x 2 Pipe	6.60	316.23
37.6 RT	1.5 x 2 "	6.61	316.22
42.6 RT	1.5 x 2 "	6.62	316.21
53 RT	1.5 x 2.5 "	6.54	316.29
57.1 RT	2 x 2 "	4.21	318.62
71.3 RT	2 x 2 "	0.00	322.83
T.P.	6.21	328.11	0.93
	1 + 98		
25 LT		12.8	315.3
15 LT		12.9	315.2
4 LT		12.3	315.8
2 LT	ditch	13.2	319.9
B.L.		11.6	316.5
5 RT		10.3	317.8
21 RT		9.6	318.5
24 RT		11.0	317.1
38 RT		11.6	316.5
49 RT		10.9	317.2
55 RT		7.4	320.7
65 RT		7.1	321.0
66.5 RT		6.2	321.9
68 RT	Collar ditch	9.0	319.1

69.5 RT		9.0	319.1
70.5 RT		6.3	321.8
75 RT		5.7	322.8
80 RT		2.8	325.3
95 RT		0.6	327.5
	1 + 04		
25 LT		8.4	319.7
15 LT		8.5	319.6
7 LT		10.6	317.5
3 LT		9.8	318.3
1 LT	Bar end ditch	10.4	317.7
1 LT	FL outlet <sup>24" Cor.</sup> 1. PIPE	9.2	318.9
1 RT	wedge ditch	9.5	318.6
20 RT		6.8	321.3
30 RT		7.9	320.2
48 RT		6.6	321.5
57 RT		4.9	323.2
64 RT		4.1	329.0
64.5 RT		3.6	329.5
65.5 RT	Collar ditch	5.4	322.7
67 RT		5.2	322.7
68 RT		3.1	325.0
75 RT		0.7	327.9
76 RT	<sup>diam</sup> 18" Excav. Tree		
95 RT		± 3.7	331.8

2 + 11			
28.6	RT	1.5 x 2.5 Pipe	5.89 322.22
37.6	RT	1.5 x 2 "	5.90 322.21
42.5	RT	1.5 x 2 "	5.87 322.22
51.8	RT	1.5 x 2.5 "	5.89 322.22
57	RT	2 x 2 "	0.40 327.71
69.1	RT	2 x 2 "	0.36 327.75
76	RT	8" Eucal Tree	

T.P. 5.71 33308 0.74 327.37

2 + 13			
25	LT		12.1 321.0
13	LT		12.2 320.9
1	RT		9.6 323.5
20	RT		8.8 329.3
26	RT		10.6 322.5
42	RT		10.6 322.5
55	RT		7.9 325.2
60	RT		4.4 328.7
63.5	RT		4.5 328.6
64	RT	Top ditch	3.5 329.6
65	RT		6.0 327.1
67	RT	Cobble Barrage	6.0 327.1
68	RT	Top ditch	3.6 329.5
71	RT		1.6 331.5

75	RT		1.2 331.9
95	RT		4.5.1 338.2
2 + 16.9			
25	LT		11.7 321.9
14	LT		12.0 321.1
3	LT		9.0 322.1
B.L.	Top 24" Corc. 1 Pipe		6.9 326.2
2	RT		7.7 325.9
6.1	RT	1.5 x 2 Pipe	7.2.3 325.85
15.8	RT	1.8 x 1.8 "	7.2.3 325.85
17	RT	ground	7.6 325.5
22.8	RT	1.5 x 1.7 Pipe	7.2.8 325.86
32.3	RT	1.7 x 1.7 "	7.2.2 325.86
35	RT	ground	7.9 325.2
41	RT		8.5 322.6
50	RT		4.7 328.2
63.5	RT		2.7 330.2
64	RT		1.5 331.6
65	RT	Cobble ditch	3.7 329.9
67	RT		3.7 329.9
68	RT		1.5 331.6
75	RT		0.0 333.1
95	RT		4.5.8 338.9

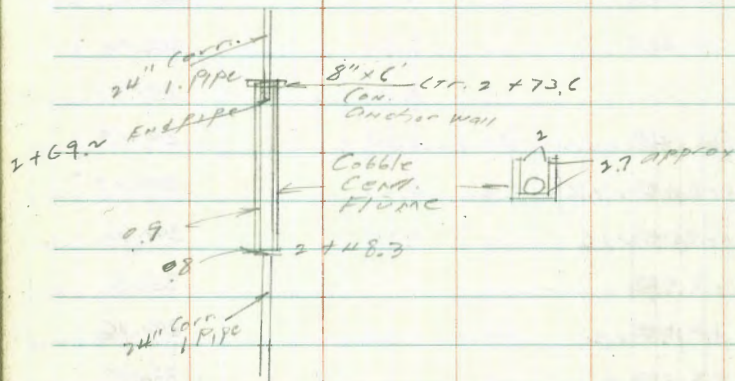
T.P. 806 33984 1.30 331.78

2 126.9				
30.8	RT	1.5 x 2.5 Pier	9.06	330.78
38.4	RT	1.5 x 2 "	9.04	330.80
43.3	RT	1.5 x 2 "	9.05	330.79
50.7	RT	1.5 x 2.5 "	9.05	330.79
57.9	RT	2 x 2 "	4.26	335.58
68.8	RT	2 x 2 "	4.21	335.63
2 129				
25	LT		7.6	332.2
12	LT		8.5	331.3
3	LT		7.9	331.9
2	LT		10.4	329.2
3	RT		9.4	330.2
7	RT		7.1	332.7
14	RT		8.3	331.5
30	RT		9.1	330.7
55	RT		8.5	331.3
60	RT		4.4	335.9
63	RT		3.7	336.1
63.5	RT		3.0	336.8
64	RT		4.6	335.2
66	RT	Cocle ditch	4.6	335.2
67	RT		2.4	337.2
69	RT		1.4	338.2
75	RT		0.8	339.0
95	RT		+ 5.2	335.0

T.P. 860 345.54 2.90 336.94				
2 441.2				
25	LT		5.7	339.8
12	LT		6.5	339.0
86			7.7	337.8
5	RT		9.9	335.6
7	RT		7.6	337.9
77	RT	1.5 x 2.5 Pier	4.41	341.13
157	RT	1.5 x 1.6 "	4.37	341.17
226	RT	1.5 x 1.6 "	4.34	341.20
25	RT	ground	7.7	337.8
307	RT	1.5 x 2.5 Pier	4.38	341.16
32	RT	ground	6.8	338.7
2 443.2				
324	RT	1.5 x 2.5 Pier	4.70	340.89
35	RT	ground	5.5	340.0
376	RT	1.5 x 2.5 Pier	4.68	340.86
427	RT	1.5 x 2.5 "	4.70	340.89
482	RT	1.5 x 2.5 "	4.69	340.85
50	RT	ground	4.5	341.0
573	RT	2 x 2 Pier	3.56	341.98
61	RT	ground	3.6	341.9
61.5	RT	TOP ditch	2.4	343.1
62.5	RT	Bot Cocle ditch	5.3	340.2
64.5	RT	" " "	5.3	340.2

345.54 ✓

6.5 RT	ground and Top direct	2.7	342.8
66.8 RT	2 x 2 Pier	3.55	341.99
71 RT	ground	2.0	343.5
95 RT	"	1.29	348.2



2 + 48.3			
1.6 RT	to Top Flange	1.9	343.6
3.5 RT	to 9 F.L. 24" pipe	4.8	340.7

T.P. 10.84 355.49 0.89 344.65 ✓

2 + 59			
2.5 LT		2.4	347.1
1.2 LT		2.6	347.9
B.L.		7.3	348.2
2.5 RT	ground	9.0	346.5
2.5 RT	Top Flange	7.0	348.5

355.49 ✓

42

8 RT	ground	9.0	346.5
25 RT	"	9.0	346.5
28.9 RT	2 x 2 Pier	7.84	347.67
33.8 RT	1.5 x 2.5 "	7.19	348.30
37.7 "	1.5 x 2.5 "	7.14	348.35
40 "	ground	7.9	347.6
42.7 "	1.5 x 2.5 Pier	7.19	348.30
46.7 "	1.5 x 2.5 "	7.19	348.30
50.3 "	2 x 2 "	6.19	349.30
55 "	ground	6.6	348.9
57.1 "	2 x 2 Pier	6.18	349.31 and ground
58.7 "	Top Cobble direct	5.6	349.9
59.5 "	Bot "	7.6	347.9
63.5 "	" "	7.6	347.9
64 "	Top "	5.8	349.7
65.1 "	2 x 2 Pier	6.14	349.35 and ground
75 "	ground	3.9	351.6
95 "	"	2.9	352.6
	2 + 63.5		
2.5 LT		7.0	348.5
1.5 LT		6.9	348.6
1.2 LT		6.0	349.5
B.L.		4.3	349.2
2.7 RT	ground	6.9	348.6
2.7 RT	Top Flange	5.6	349.9
6.7 RT	ground	7.2	348.3
20 RT		6.8	348.7

2 + 63.5

35 RT		7.0	348.5
50 RT		5.6	349.9
58 "	Cobble Top ditch + ground	4.5	351.0
58.5 "	Bot "	6.5	349.0
62.5 "	" "	6.5	349.0
63 "	Top + ground	4.7	350.8
70 "	ground	3.2	352.3
75 "		6.8	353.7
85 "		0.0	355.3
95 "		0.0	355.5
2 + 65			
9.9 RT	1.7 x 1.7 Pipe	3.99	351.50
15.5 "	1.7 x 1.7 "	3.99	351.50
22.8 "	3 x 3 "	3.98	351.51
28.4 "	3 x 3 "	3.95	351.54
2 + 69.2			
25 LT		5.4	350.1
12 LT		4.7	350.8
B.L.		4.4	351.1
3 RT	ground	4.4	351.1
3.5 RT	Top Cobble Flume	3.7	351.8
5.2 RT	24" pipe outlet	5.3	350.2 F.L.
"	Bot. Flume	6.0	
6.8 "	Top Cobble Flume	3.7	349.5 351.8
7.5 "	ground	4.5	351.0
25 "	"	4.7	350.8
50 "	"	4.3	351.2

57 RT		3.3	352.2
57.5 "	Top Cobble ditch	2.9	352.6
58 "	Bot " "	4.8	350.7
62.5 "	" " "	4.8	350.7
63 "	Top " "	3.1	352.4 and ground
70 "		1.4	354.1
85 "		+ 3.5	359.0
95 "		+ 4.5	360.0
2 + 74.8			
28.8 RT	2 x 2 Pipe	0.98	354.51
34.8 "	2 x 2.5 "	3.12	352.37
37.4 "	2.5 x 2.3 "	2.95	352.52
42.6 "	1.6 x 2 "	3.15	352.32
45.8 "	1.5 x 1.5 "	3.16	352.33
50 "	2 x 2 "	1.19	354.30
57.1 "	2 x 2 "	1.18	354.31
64.1 "	2 x 2 "	1.19	354.30
74 "	18" Eucal. Tree		
T.P.	5.76	358.20	3.05 352.44
2 + 77.8			
25 LT		5.9	352.2
8 LT		4.1	354.1
B.L.		4.6	353.6
2 RT	1.5 x 1.5 Pipe	4.70	353.50

10.9 RT	1.7 x 1.6	Pico	3.24	354.96
15.5 "	1.7 x 1.6	"	3.25	354.95
22.7 "	1.7 x 1.7	"	3.26	354.94
27.3 "	1.7 x 1.7	"	3.29	354.91
30 "	ground		4.8	353.9
40 "	"		5.6	352.6
48 "	"		5.3	352.9
56 "	"		4.1	354.1
57 "	Top Cobble ditch		2.8	355.9
57.5 "	Bot "		4.5	353.7
62.5 "	" "		4.4	353.8
63 "	Top "		2.5	355.7 <sup>and</sup> ground
67 "	ground		2.0	356.2
69 "	"		+ 2.6	360.8
75 "	"		+ 3.3	361.5
95 "	"		+ 4.0	362.2
				2 + 84
40.3 RT <sup>To</sup> CTR	3 x 11.2	Pico	3.68	359.52
61 RT	♀ F.L. 24" Pipe		1.10	357.10 outlet thru Bulkhead
				2 + 86
45 LT	ground		3.4	354.8
15 LT			0.3	357.9
10 LT			0.2	358.0
5 LT			2.8	355.4
Bh.			3.1	355.1

85 RT	♀ F.L. 24" Pipe		1.18	356.52 at Bulkhead
10 "	ground		3.5	359.7
25 "	"		3.0	355.2
35 "	"		2.7	354.5
44.8 "	1.5 x 1.6	Pico	3.18	355.02
49 "	ground		3.1	355.0
50 "	1.5 x 2	Pico	1.28	356.92
55 "	ground		3.0	355.2
56.5 "	Top Cobble ditch		0.8	357.4
57.1 "	1.5 x 2	Pico	1.24	356.96
57.1 "	Bot. ditch		3.0	355.2
64 "	" "		3.0	355.2
64 "	1.5 x 2	Pico	1.24	356.96
64.5 "	Top Cobble ditch		1.1	357.1
67 "	ground		0.0	358.2
75 "	"		+ 3.7	361.9
95 "	"		+ 4.5	362.7
				2 + 86.5
1.2 LT	1.5 x 1.5	Pico	2.58	355.62
2.9 RT	1.3 x 1.3	"	2.67	355.58
				↑
T.P.	4.70	357.14	5.76	352.44
T.P.	11.22	367.98	0.38	356.76
T.P. <sup>Page</sup> 29	8.74	368.60	8.14	359.86 359.87



E. edge			
2+87	WEST Bulkhead		
SL Adams - 5	Sloping wall	9.6	359.0
SL Adams	Top Bulkhead	6.35	362.28
S CB	" "	6.29	362.31
1/4 Pav		6.13	362.27
c pav	14' 1/4 S	6.21	362.39
1/4		6.33	362.27
gut Pav		6.61	361.99
N CB		6.19	362.21
N	Bulkhead	6.30	362.30
	2+93 on S. to 2+94 on N.		
N CB		6.45	362.15
gut grating		7.05	361.55
FL 24" corr. l. pipe		9.62	358.98
1/4		6.20	362.90
c		6.06	362.52
1/4		6.01	362.59
gut grate		6.31	362.29
FL 24" corr. pipe		8.99	359.61
S CB		5.85	362.75
	3+01		
S CB		5.99	362.61
gut grate		6.69	361.91
1/4		5.83	362.77
c		5.88	362.72

1/4		6.04	362.59	
gut		6.88	361.72	
N CB		6.28	362.32	
	3+10			
N CB		6.04	362.56	
gut		6.59	362.01	
1/4		5.83	362.77	
c		5.66	362.92	
1/4		5.67	362.93	
gut		6.56	362.02	
S CB		5.90	362.70	
	3+72			
S CB		5.33	363.27	
gut		5.99	362.61	
1/4		5.27	363.33	
c		5.22	363.38	
1/4		5.32	363.28	
gut		5.84	362.76	
N CB - FL alloy		5.26	363.32	
TP	2.90	373.28	2.72	366.38 ✓
check to starting BMA			2.142	370.86 370.87 ✓

## Levels on Ward Rd. P. 28

Under Bridge

 TP spike  
 R 34 1.84 313.73 ✓ 311.89

11 + 42.51 B.C. LT

♀	2.6	311.1
12 LT	3.1	310.6
20 LT	2.0	310.7
27 LT	6.7	307.0
36 LT	6.4	307.3
38 LT	8.1	305.6
41 LT	11.1	302.6
45 LT	10.8	302.9
46 LT	8.6	305.1
10 RT	2.3	311.8
20 RT	2.6	311.1

11 + 59.0

17 RT F.L. 30" Pipe 6.05 307.68 in LT

20 LT " " " 8.37 305.36

12 + 00

11 LT	5.1	308.6
20 LT	5.0	308.7
26 LT	8.4	305.3
35 LT	9.6	304.1
37 LT	12.0	301.7
43 LT	Cobble ditch 11.8	301.9
44 LT	9.5	304.2

12 + 00

9 RT	4.6	309.1
13 RT	4.4	309.3

12 + 15.62 SL Adams

♀	5.3	308.9
9 RT	5.1	308.6
13 RT	4.0	309.7
11 LT	5.8	307.9
15 LT	5.5	308.2
26 LT	9.6	304.1
33 LT	10.1	303.6
35 LT ditch	12.5	301.2
39 LT	12.6	301.1
41 LT	10.5	303.2

T.P. 202 310.04 ✓ 5.71 308.0 ✓

12 + 55.83 ♀ Adams

♀	2.6	307.9
9 RT	2.5	307.5
11 LT	3.0	307.0
15 LT	4.6	305.9
28 LT	9.7	301.3
34 LT	9.8	300.2
35 LT ditch	10.7	299.3
38 LT	9.8	300.2

310.04 ✓

12 + 95.92	ALL Adams		
8		3.5	306.5
8 LT		3.7	306.3
10 LT	ON CAN PICO	3.4	306.8
27 LT		9.3	300.7
28 LT	ditch	12.1	297.9
34 LT		12.1	297.9
35 LT		9.9	300.1
11 RT		3.4	306.6
	13 + 24		
8		4.2	305.8
10 LT		4.3	305.7
16 LT		4.4	305.8
17 LT		10.0	300.0
19 LT		10.9	299.1
20 LT		14.2	295.8
27 LT	ditch	14.2	295.8
28 LT		9.5	300.2
11 RT		4.1	305.9
14 RT		4.1	305.9
23 RT		11.9	298.1
	13 + 31		
8		4.3	305.7
10 LT		4.5	305.5
16 LT		4.3	305.7

Notes Reduced. 12-10-93

310.04 ✓

47

19 LT	ditch	14.5	295.5
21 LT		14.5	295.5
22 LT		10.6	299.4
10 RT		4.3	305.7
14 RT		4.5	305.5
26 RT		13.3	296.7
	13 + 38		
27 RT		14.1	295.9
15 RT		5.0	305.0
10 RT		4.5	305.5
8		4.5	305.5
10 LT		4.8	305.2
17 LT		4.7	305.3
18 LT		8.7	303.3
25 LT		8.2	301.8
	13 + 34 CULV.		
20 LT	FL 24" CULV.	14.9	295.1 in lot
31.5 RT	FL " " "	17.6	292.9 on plot
	13 + 35 CULV.		
18.5 LT	FL 30" PIPE	7.9	302.1 in lot
31 RT	" " "	14.0	299.0 on lot
	14 + 36 - F.C.		303.6
8		6.4	
10 LT		6.5	303.5
10 RT		6.6	303.4

RAINING

Alignment Dyke Water Main  
"A" Line

9+64.59 BC Rt

2+03.35  $\Delta 22^{\circ} 54' Lt$

0+54.57 EC

$\Delta 1^{\circ} 40'$   
R 1000  
T 14.54  
L 29.09

0+25.98 BC Rt

0+15.48  $\Delta 15^{\circ} 00' Rt$

0+00 =  $\frac{1}{2}$  Existing 16" Water Main

Dec. 23 '33  
J. Sisson  
Bliss H.C.  
8899 R.C.

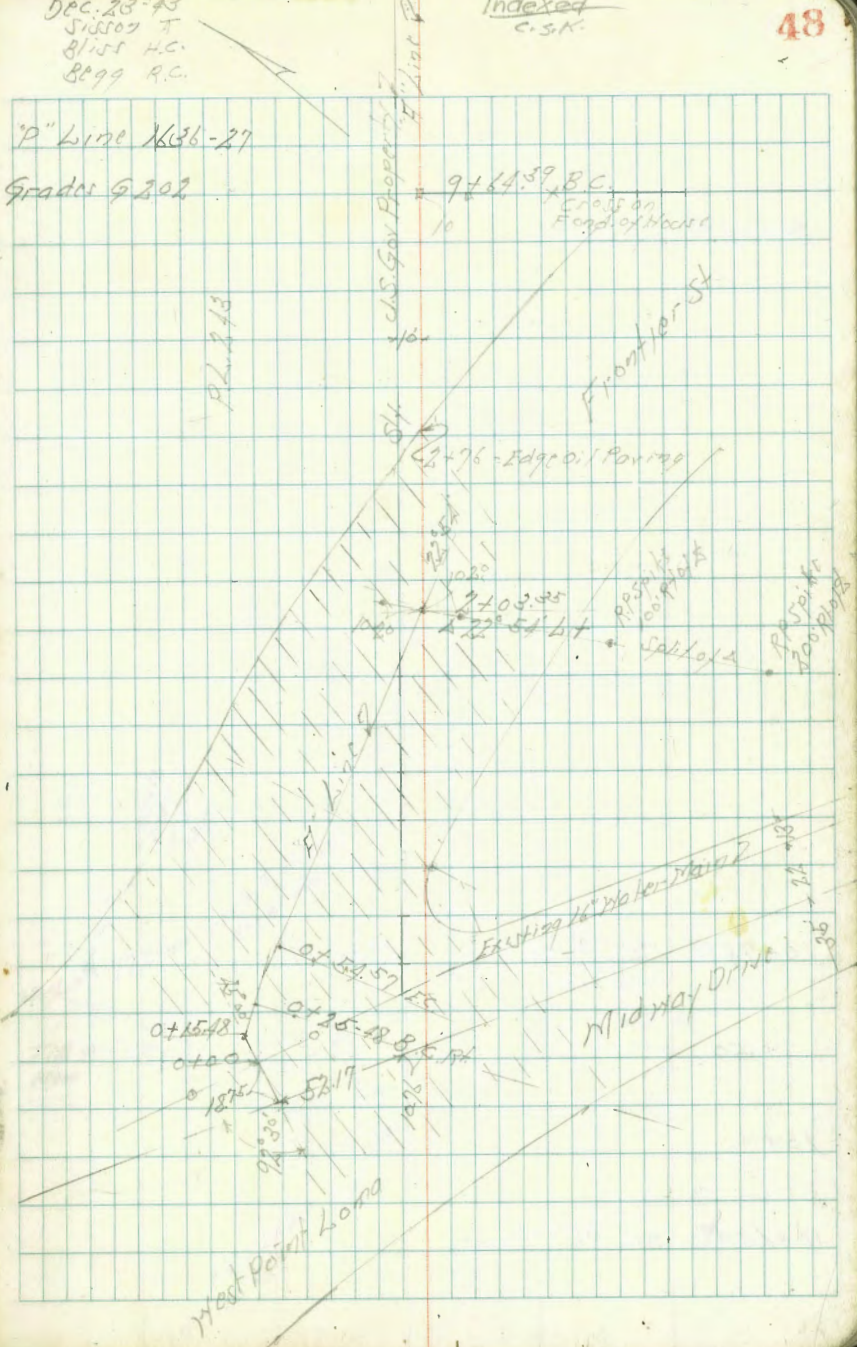
Indexed  
C.S.M.

48

"P" Line 1636-27  
Grades 9202

Grades 9202

9+64.59 BC  
Cross on  
Foot of House



0+76 - Edge of Pavement  
0+54.57 EC  
0+25.98 BC Rt  
0+15.48  
0+00  
Existing 16" Water Main  
Midway Drive  
West Point Loop  
1825  
1828  
1831  
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2008  
2011  
2014  
2017  
2020

26+64.58 P.O.T.

10+78.64 F.C.

3° 16.37'

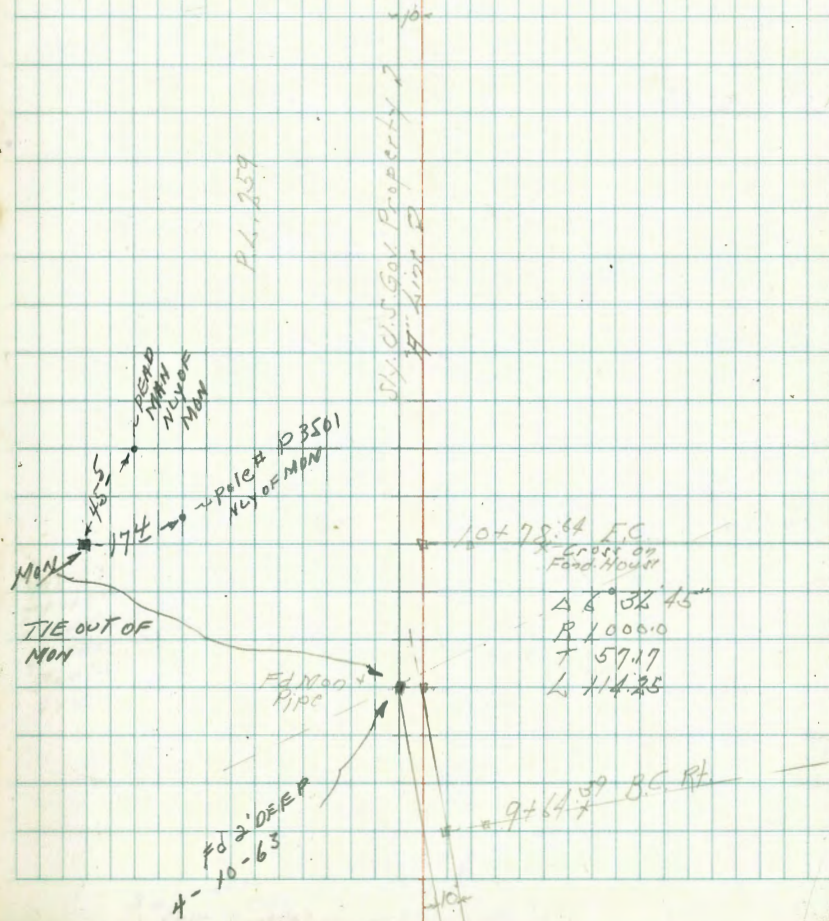
+50

2° 27.15'

10+0

1° 01.21'

9+64.39 B.C. Rt.



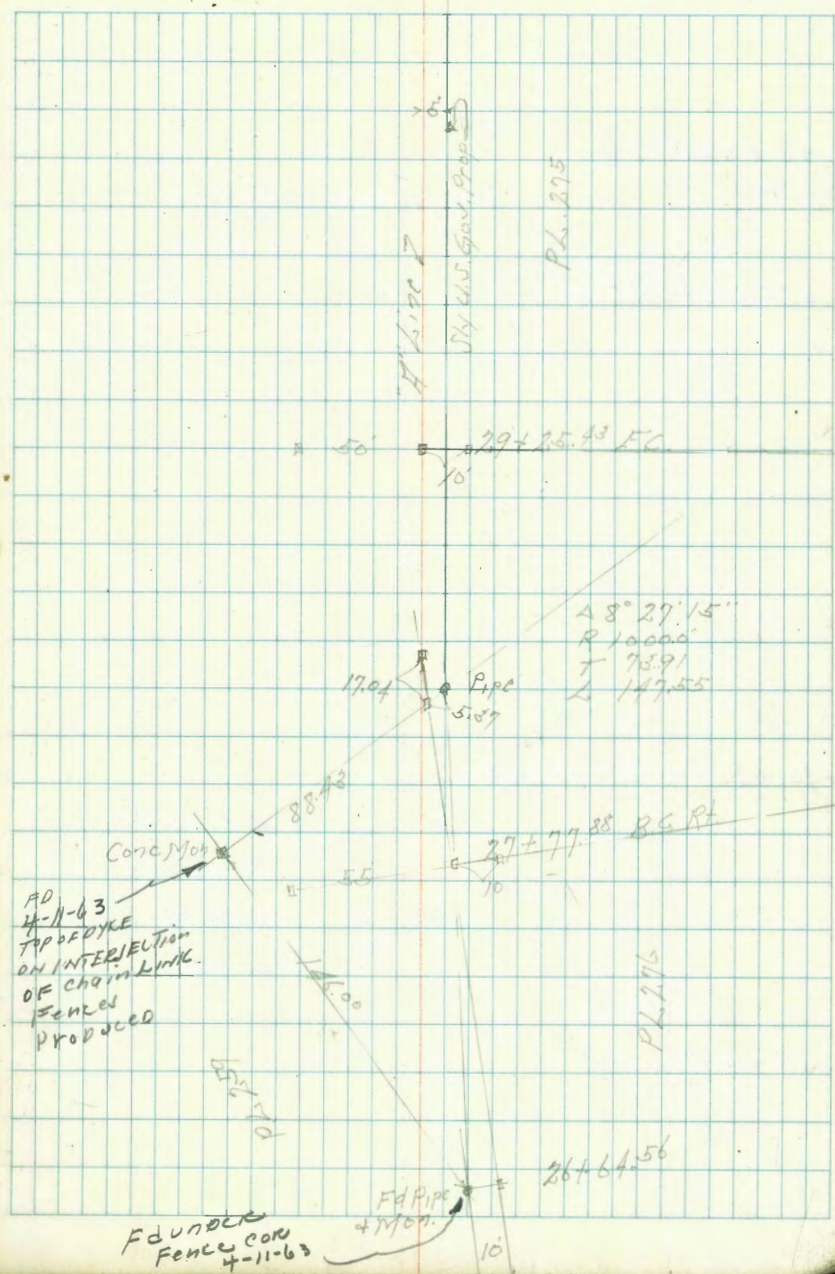
29+25.43 FC  $4^{\circ} 13.62'$

29+0  $3^{\circ} 29.90'$

+50  $2^{\circ} 03.96'$

28+0  $0^{\circ} 28.02'$

27+77.88 B.C.P.



FOUNDER  
Fence cor  
4-11-63

42+52.7° EC

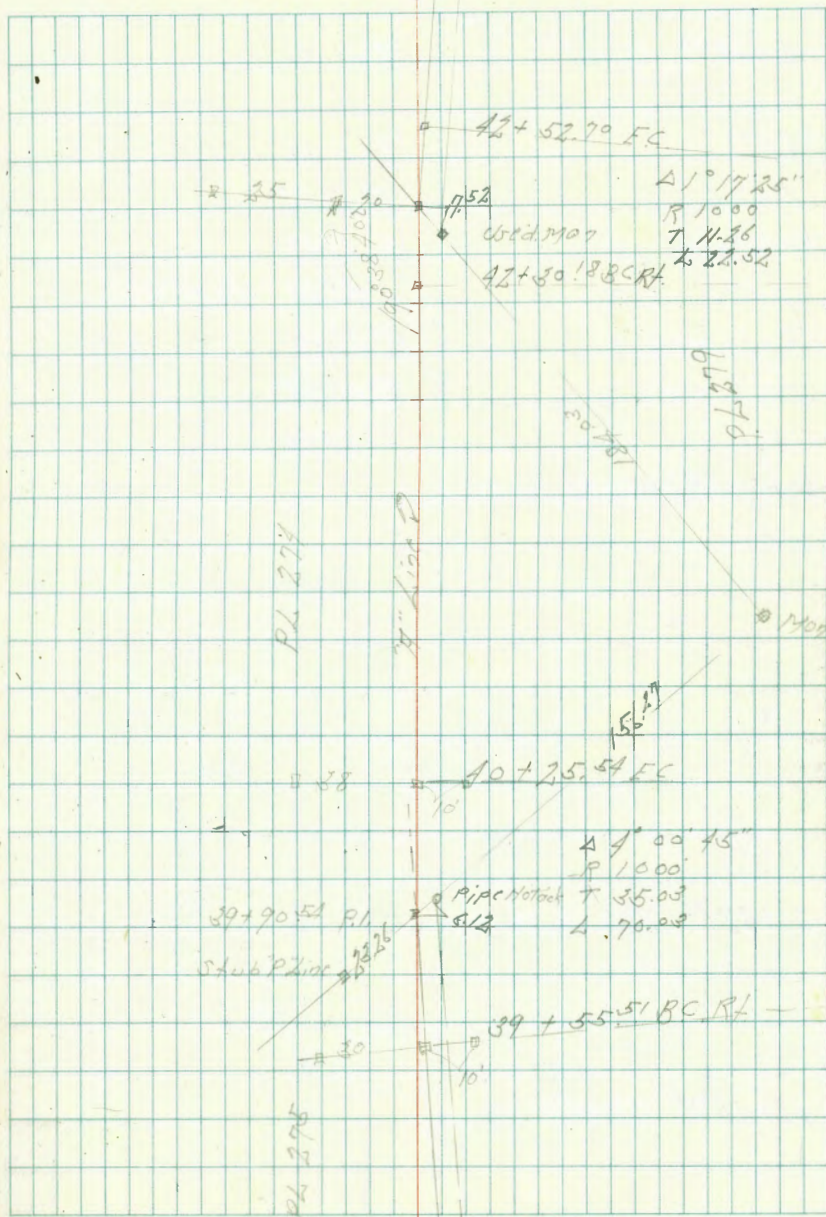
 $\Delta 1^{\circ} 17' 25''$   
 $R 1000.0'$   
 $T 11.26$   
 $L 22.52$ 

42+30.18 BC.RH

40+25.54 EC

 $\Delta 4^{\circ} 00' 45''$   
 $R 1000.0'$   
 $T 35.03$   
 $L 70.03$ 

39+55.51 BC.RH

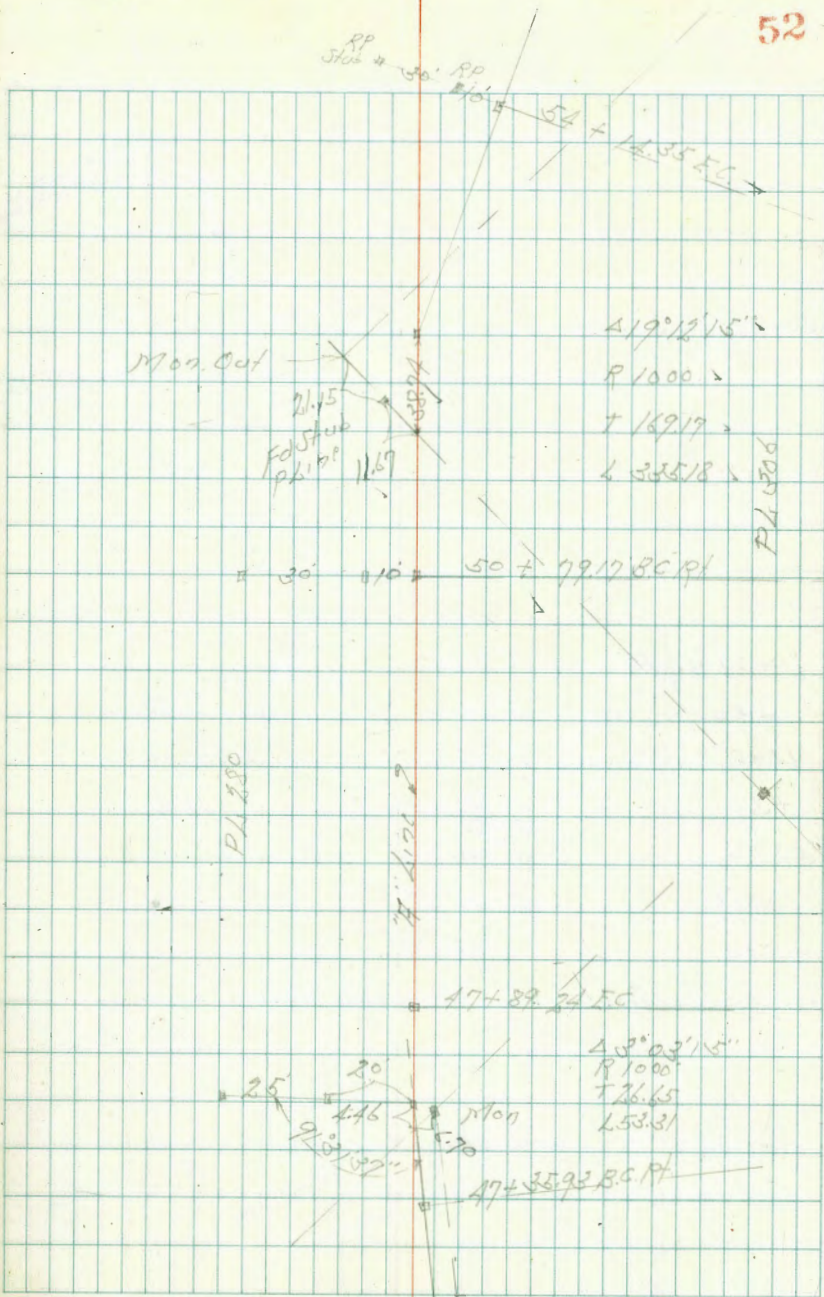


Alignment Dyke Water Main  
H-Line

54+14 <sup>35</sup> EC	9° 36.12'
54+0	9° 11.46'
+50	7° 45.52'
53+0	6° 19.57'
+50	4° 53.63'
52+0	3° 27.69'
+50	2° 01.74'
51+0	0° 35.80'
50+79.17 BC PI	

47+89.24 EC

47+35.93 BC PI





67+08.87 EC

$\Delta 53.45''$   
R 1000  
T 13.64  
L 86.03

66+22.81 BC Lt

60+59.81 EC

$8^{\circ} 26.5'$

+50

$8^{\circ} 09.61'$

$\Delta 16.53'$

60+0

$6^{\circ} 43.70'$

R 10000

+50

$5^{\circ} 17.75'$

T 148.41

59+0

$3^{\circ} 51.81'$

L 294.67

+50

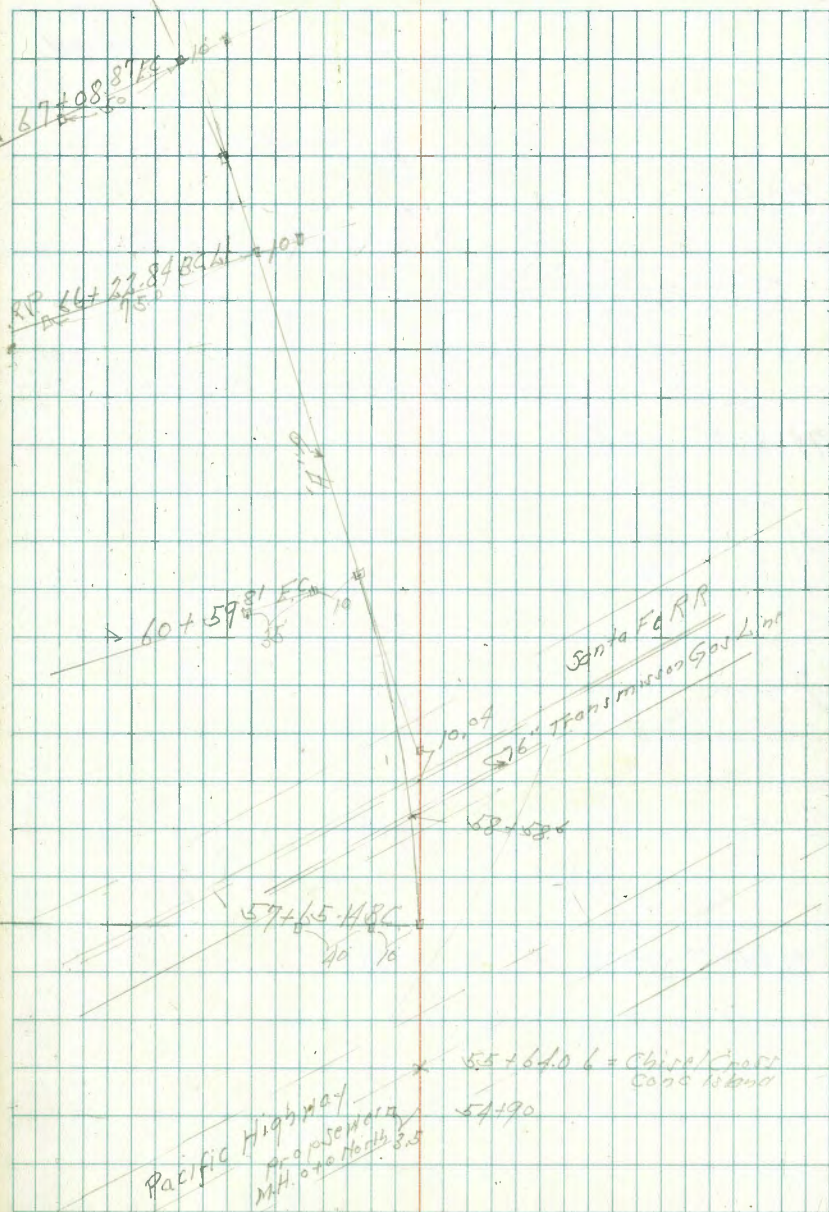
$2^{\circ} 25.87'$

58+0

$0^{\circ} 59.92'$

57+65.14 BC Lt

57+47.7



Alignment Dyke Water Main  
"H" Line

76+63.04 - Exst 24' GV

76+47.84 Exst Cross

76+46.15 = Existing Cross

76+40.78 Δ 48° 15' Lt

76+30.65 Δ 45° 00' Lt Chisel Cross

75+06.41 Δ 35° 30' Rt

RD  
76.71  
18.71.02  
5/17/07A

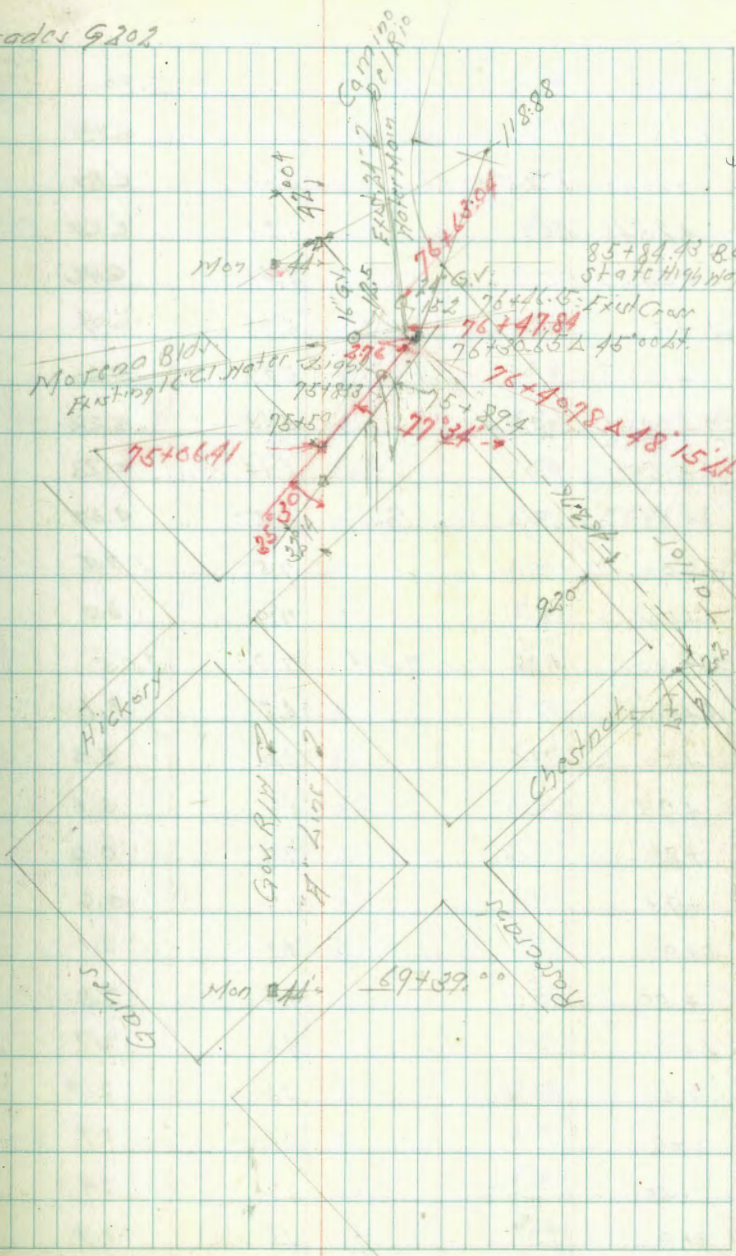
74+80.85 Δ 33° 14' Rt

69+39.00 Pat

Dec. 30.03

54

Grades 9202



Level Dyke Water Main  
"H" Line

BM #1	7.97	10.87 <sup>1</sup>	2.90
0+0	07 PAVING	3.94	6.93
+1548	Δ 45° 00' RT	4.00	6.87
+2548	B.C.	4.23	6.64
+5457	EC	4.41	6.26
1+0		4.78	6.09
+50		5.27	5.80
2+03.35	Δ 22° 54' L	5.65	5.22
+50		6.14	4.73
+76	- NELY of old Paving	6.50	4.37
3+0		7.5	3.4
+50		7.9	3.0
TP	4.28	7.33 <sup>1</sup>	7.82
4+0		4.2	3.1
+50		4.0	3.3
+77		4.0	3.3
+86		7.0	0.3
+93		6.7	0.6
5+0		4.2	3.1
+50		4.5	2.8
6+0		4.6	2.7
+50		4.6	2.7
7+0		4.6	2.7
+50		4.9	2.4
8+0		4.6	2.7

RR SW  
H.W. of Cul.  
Midway  
N of West  
Point 4000

Dec 30-43  
515107  
Bliss  
8099

8+50		4.7	2.6
9+0		4.5	2.8
+50		4.6	2.7
+6439	B.C. PT	4.3	3.0
	5.41	7.85 <sup>1</sup>	4.89
10+0		4.0	3.8
+50		4.1	3.8
+7864	EC	4.65	3.20
BM #3		6.35	1.50
11+0		4.7	3.4
+50		4.6	3.4
12+0		4.7	3.2
+50		4.6	3.4
13+0		4.8	3.0
+50		4.6	3.4
14+0		4.7	3.4
+50		4.7	3.4
15+0		4.8	3.0
TP	5.20	7.97 <sup>1</sup>	5.08
+50		4.7	3.3
16+0		4.7	3.3
+50		4.6	3.4
17+0		4.6	3.4
+50		4.6	3.4
18+0		4.8	3.2

at slab  
RR Sp. 40  
Paving  
20' 41' 10' 35'  
#P 3501

7.97

18+50			4.8	3.2
19+0			4.6	3.9
+50			4.6	3.9
20+0			4.7	3.3
+50			4.4	3.6
21+0			4.5	3.5
+50			4.6	3.7
22+0			4.7	3.3
TP	4.67	7.98 ✓	4.66	3.31
+50			5.0	3.0
23+0			5.0	3.0
+50			4.9	3.1
24+0			4.9	3.1
+50			4.8	3.2
25+0			5.6	2.2
+25			6.0	2.0
+50			5.7	2.3
26+0			5.5	2.5
+50			5.5	2.5
TP	4.13	6.32 ✓	5.79	2.19
BM #3			4.69	2.63
27+0			4.5	1.8
+50			4.4	1.9
+77.88	BC RL		4.3	2.0
28+0			4.8	1.5

5.04  
16547.0  
26+87

6.32

28+50			4.8	1.5
29+0			4.6	1.7
+25	BC RL		4.6	1.7
+50			4.5	1.8
30+0			4.5	1.8
+50			4.4	1.9
31+0			4.7	1.6
+50			4.5	1.8
32+0			4.7	1.6
TP	5.04	6.77 ✓	4.59	1.73
+50			5.1	1.7
33+0			4.9	1.9
+50			5.0	1.8
34+0			4.8	2.0
+50			4.7	2.1
35+0			4.7	2.1
BM #4	4.24	7.50 ✓	3.51	3.26
+50			5.4	2.1
36+0			5.3	2.2
+50			5.1	2.9
37+0			5.0	2.5
+50			4.6	2.9
38+0			4.4	3.1
+50			4.3	3.2
39+0			4.4	3.1

3.04  
46240/35+45

Levels Dyke Water Main  
"F" Line

7.50'			9.26'			
39+55.51	RC RT	4.7	2.8	48+50	4.1	5.2
40+0		4.6	2.9	49+0	4.8	4.5
TP	4.18	7.32	4.36	3.14	4.5	4.8
+25.51	FC	4.5	2.8	50+0	4.6	4.7
+50		4.5	2.8	+50	4.7	4.6
41+0		4.3	3.0	+79.17	RC RT	4.58 on stub
+50		4.7	2.6	51+0	4.8	4.5
42+0		4.5	2.8	+45	4.4	4.9
+30.18	RC RT	4.6	2.7	+50	5.3	4.0
BM #5		3.94	3.38	PL Mon RT of PI	5.1	4.2
+52.70	FC	4.1	3.2	52+0	4.9	4.8
43+0		4.7	2.6	+06	6.1	3.2
+50		4.5	2.8	+12	TP	7.67 11.62 ✓
44+0		4.5	2.8	TP	5.21	2.95
TP	4.71	8.18	3.85	3.47	4.50	3.3
+50		5.2	3.0	53+0	8.8	2.8
45+0		4.9	3.3	+50	8.5	3.1
+50		4.9	3.3	54+0	8.3	3.3
46+0		4.6	3.6	+14.35	FC	8.00
+50		4.5	3.7	+50	8.0	3.6 ✓ on stub
47+0		5.3	2.9	+75	7.9	3.6
+35.93	RC RT	3.96	4.22	BM #7	6.88	3.7
BM #6	4.77	9.26	3.69	4.49	TP	8.29 18.92 ✓
+89.24	FC	3.2	6.1	PL Mon RT of PI	+90	7.2
48+0		4.1	5.2	55+0	2.7	11.2
				+10.8	City Conc Paving	2.48
						14.50

		18.92 ✓	
55+27.3 =	Sl. Conc From N	19.3	16.99
+62.6 =	Gutter	18.4	17.08
+64.06 =	Top Conc Island	18.35	17.57
+66.6 =	Gutter	19.2	17.00 ✓
+79 =	Sl. Conc From N	20.4	16.58 ✓
56+05.4 =	Gutter	2.76	16.16 ✓
" "	Top cb	2.08	16.84 ✓
+14		2.3	16.6 ✓
+35		12.8	6.1 ✓
57+0		13.7	5.7 ✓
+50		15.5	3.4 ✓
+65.14	B.C. Lt.	15.9 ✓	3.0 ✓
58+0		15.1	3.8 ✓
+14		9.8	9.1 ✓
418.4	Top Conc Storm Drain	10.51	8.41 ✓
+20		9.7	9.2 ✓
+25		12.9	6.0 ✓
TP	5.80 15.52 ✓	9.20	9.72
+38		10.5	5.0 ✓
+50		7.7	7.8 ✓
+58.6 =	Top 16" Transmission 90.5' high	2.50	7.0 ✓
+64		7.0	8.5 ✓
+70		4.3	11.2 ✓
+99.4 =	Santa Fe Top Rail	1.99	12.53 ✓
59+11		2.4	11.1 ✓

		15.52 ✓	
59+28		11.4	4.1 ✓
+40		12.1	3.4 ✓
+54		9.9	5.6 ✓
60+0		10.5	5.0 ✓
BNT #8 381	10.30 ✓	9.03	6.47 <small>3' 7/16" hole 87' RT 59+70</small>
+59.81 FC		4.86	5.44 <small>07 Stab</small>
61+0		4.0	6.3 ✓
+50		4.1	6.2 ✓
62+0		4.4	5.9 ✓
+50		3.9	6.4 ✓
63+0		4.5	5.8 ✓
+50		4.0	6.3 ✓
TP	4.36 11.47 ✓	3.19	7.11
64+0		5.1	6.9 ✓
+50		5.1	6.9 ✓
65+0		5.1	6.9 ✓
+50		5.0	6.5 ✓
66+0		4.9	6.6 ✓
+228.4 B.C. Lt.		4.84	6.63 <small>07 Stab</small>
67+0 887 FC		4.46	7.01 <small>07 Stab</small>
+50		4.6	6.9 ✓
68+0		4.8	6.7 ✓
+50		5.4	6.1 ✓
69+0		6.0	5.5 ✓
BNT #9 649	12.16 ✓	5.80	5.67 <small>07 Stab 11.5' 69+39</small>

Levels Dyke Water Main  
4" Line

12.16'

69+50		6.6	5.6	
70+0		5.2	7.0	
+15		5.8	6.8	
+20		4.9	7.3	
+50		4.6	7.6	
71+0		4.5	7.7	
+50		5.0	7.2	
72+0		4.9	7.3	
+50		4.4	7.8	
73+0		2.7	9.5	
+50		1.3	10.9	
IP	11.47	22.64	0.99	11.17
74+0		11.3	11.3	
+50		9.7	12.9	
+75		8.1	14.5	
IP	2.78	22.62	2.80	19.84
74+80.85	A 32° 14' Rt	7.18	6.99	00.66
75+0	= Nly Oil Paving	5.6	18.0	
+115	= Nly Conc Paving	5.12	18.50	
+576	= Fly Island	4.41	19.21	
+833	Gutter	4.22	19.20	
"	Top Cb	4.71	19.91	
+894	Top Cb	5.66	19.96	
"	Gutter	4.19	19.93	
76+20.65	A 45° 00' Pt	4.30	19.32	

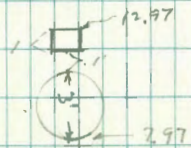
22.62'

76+46.15 = Elyl Grass	4.16	19.96
BM #10	3.55	20.07

SW RP  
SD River Bridge  
+ Fly 10.55  
26.07

Levels For Red Line

BM #10	3.96	24.03	✓	20.07	✓
74+87		6.0		18.0	
75+06.11 A 35° 31' Rt		5.7		18.3	
+39.4 = Nly Conc Paving		5.23		18.80	
+77.6 = Fly Conc Strip		4.67		19.36	
+93 = Gutter		4.51		19.52	
+98.4 = Top Cb		4.03		20.00	
+95.5	2.2' Rt = signal standard				
+99.5 = Top Cb		3.98		20.05	
76+0 = Gutter		4.47		19.56	
+08.4 = Nly Conc Strip		4.47		19.56	
76+40.78 = A 48° 15'		4.64		19.39	
5.10	25.17			20.07	BM
Top 12" Tel Conduit	12.7			12.57	



11.83  
7.97  
3.86

## Elevations Pressure Gauges

indexed  
c.c.m.

S.W. Cor. Ash + Fern Sts

BM	7.66	239.73	232.07	S.E. BP Beech + Fern
----	------	--------	--------	----------------------------

Pressure Gauge S.W. Cor. Ash + Fern		1.26	238.47	top of Metal Box 1.05 x 1.45
--	--	------	--------	------------------------------------

East Curb of Hawley South of Adams

BM	3.87	396.65	392.78	S.E. BP Adams Ave + Mansfield
----	------	--------	--------	-------------------------------------

Pressure Gauge Hawley S. of Adams		+ 1.07	397.72	top of Metal Box 1.05 x 1.45
--------------------------------------	--	--------	--------	------------------------------------

Jan 5 45  
Sisson  
Bliss  
Osborne

60



Survey of Lots 15 to 29 inclusive  
 Block 31 Ocean Beach  
 Topog. Sheet

Jan. 6-45

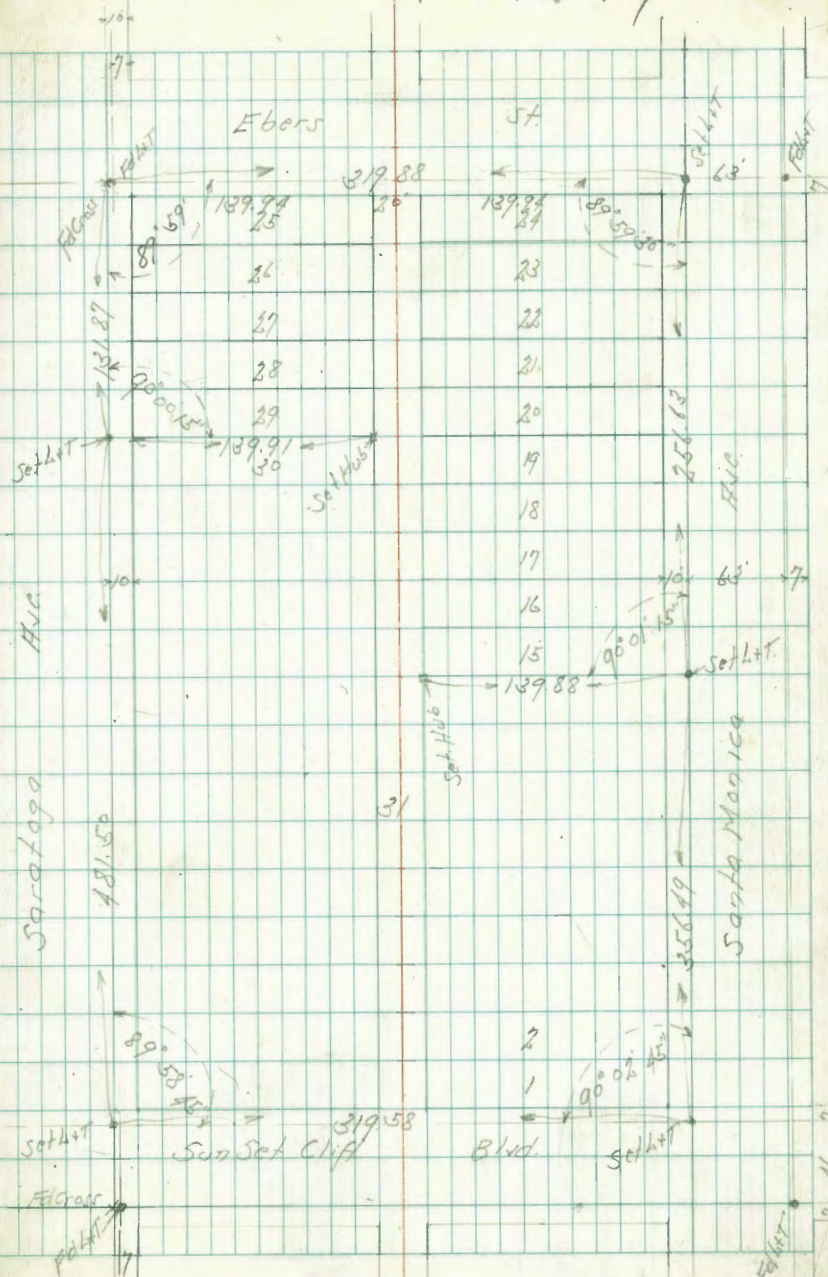
~~S. 1507  
 Lines  
 Cor. or se~~

BM	967	34.70		25.03	NW 84 Saratoga Sunset Cliff
TP	10.57	44.71	0.56	34.14	
SCB Saratoga N.L. Lot 29			4.53	40.18	Curve
S.W. Saratoga + Ebers N End			0.94	43.77	"
" " " " S End			0.67	44.04	"
S.W. Cor Hub Lot 29			2.26	42.45	on Hub
TP	794	50.39	2.26	42.45	
N.L. Ebers N.L. Alley			4.77	45.62	Curve
" " " " S L "			4.55	45.84	"
N.W. Santa Monica + Ebers N End			3.23	47.16	"
" " " " " " "			3.36	47.03	"
N.C.B. Santa Monica N.L. Lot 15			15.10	35.29	"
N.W. Cor Lot 15			12.45	37.94	on Hub

indexed  
 C.S.K.

see roll 7342  
 for topography

61

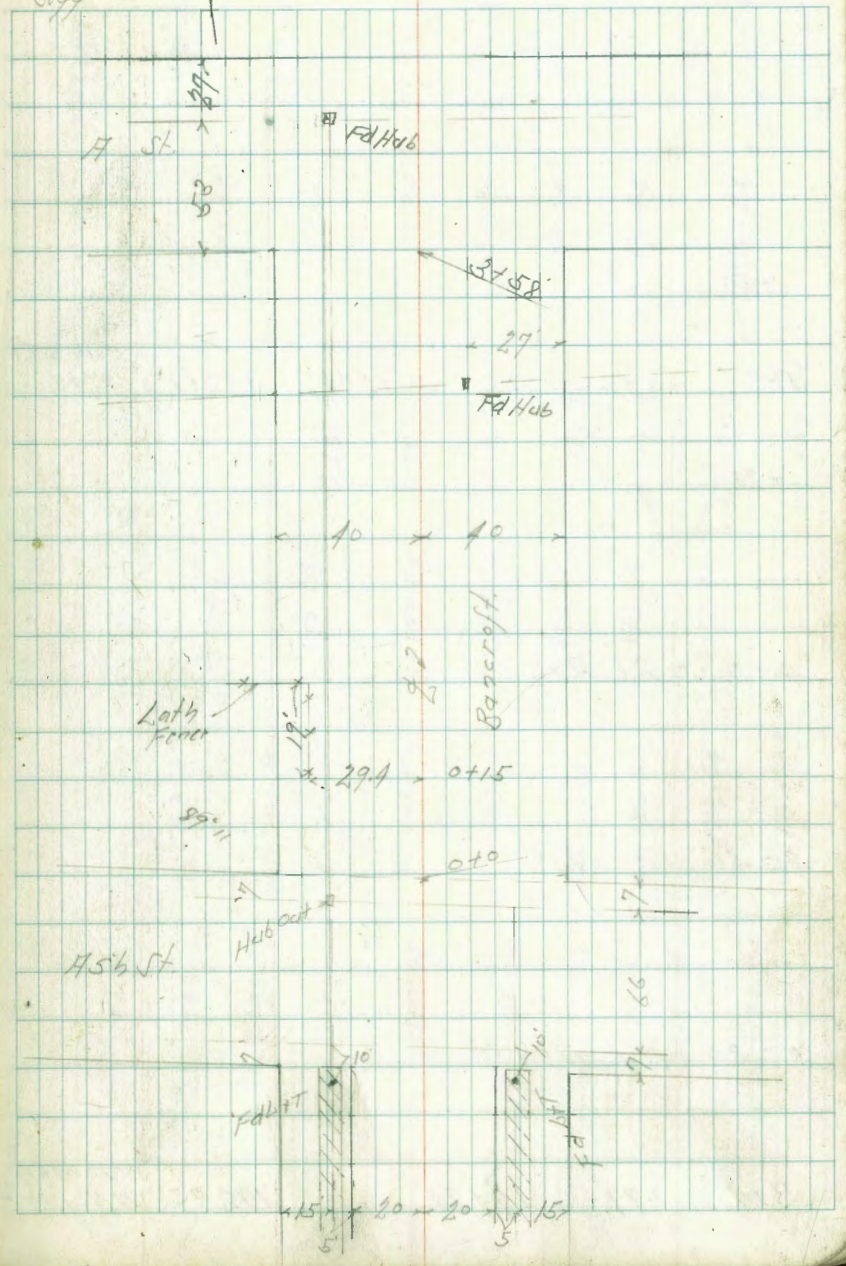


Cross Section Bancroft St.  
 7th St to A St.  
 Levels next page

Sept 21st 15  
 S. 1107  
 81.55  
 899

index of  
 c.s.K.

62



Bancroft St Ash St to H St

Sketch Page 62

+75

+50

TP 241 185.54 1271 182.13

+25

0+0 = S.L. Ash

0-40 = S. Ash

0-80 = N.L. Ash

BM 1.99 194.84 192.85

Rock 5' Ht  
0-30

N.E. Mon.  
194.84

	St. F	St. Y	
	182.44	180.44	180.04
	60/70	51/20	55/11
	184.44	184.04	183.64
	11/20	15/20	19/12
	188.44	187.64	187.04
	10/20	10/20	50/20
	191.84	191.44	190.24
	60/70	60/70	60/70
	193.64	192.74	192.04
	80/20	21/20	28/20
	196.14	193.57	193.34
	110/20	100/20	105/20
	194.04	192.94	192.74
	80/20	19/19	19/19
	197.54	192.54	192.04
	100/20	100/20	100/20
	199.04	191.34	191.34
	100/20	100/20	100/20
	198.44	186.64	182.64
	100/20	100/20	100/20
	197.84	177.84	177.84
	100/20	27/20	27/20
	194.34	174.34	172.64
	100/20	100/20	100/20
	198.44	170.54	179.54
	100/20	100/20	100/20
	197.74	171.44	175.64
	100/20	100/20	100/20
	193.04	163.04	166.24
	100/20	100/20	100/20
	194.84	157.14	169.84
	100/20	100/20	100/20

+25

+20

TP 0.56 160.85 1253 160.29

+75

+50

TP 0.32 172.82 13.09 172.50

+30

+20 230 RT of 2: Passer Pale

18554

2.0	160.85	2.0	158.85
1.5	157.95	1.5	156.35
1.0	145.25	1.0	151.65
0.5	103.95	0.5	179.05
0.2	151.45	0.2	143.75
0.1	146.25	0.1	142.35
0.05	139.25	0.05	135.55
0.02	132.45	0.02	129.65
0.01	130.85	0.01	129.35
0.005	165.12	0.005	156.32
0.002	141.52	0.002	152.02
0.001	162.72	0.001	149.32
0.0005	163.82	0.0005	141.72
0.0002	166.52	0.0002	133.32
0.0001	162.72	0.0001	135.62
0.00005	160.82	0.00005	144.82
0.00002	157.02	0.00002	135.62
0.00001	151.92	0.00001	144.82
0.000005	144.82	0.000005	135.62
0.000002	176.34	0.000002	172.82
0.000001	175.34	0.000001	172.50
0.0000005	167.54	0.0000005	172.50
0.0000002	166.54	0.0000002	172.50
0.0000001	164.84	0.0000001	172.50
0.00000005	160.94	0.00000005	172.50
0.00000002	157.24	0.00000002	172.50
0.00000001	154.44	0.00000001	172.50
0.000000005	140.34	0.000000005	172.50

18554

BM 236 162.41 4.82 d.4  
 TP 791 164.77 0.80 156.86  
 TP 12.32 157.66 1.10 145.34  
 +98 = Approx 75 H' St

+58 = Approx N.L. of H St.

+25

TP 1.43 149.44 12.84 148.01

+30

+75

+150

160.85

NE 1709  
4 x 5 1/2 d.4  
162.73

150.54	149.24	142.84	138.24	127.94	124.64	123.44	122.64	121.44
+11 50	+12 40	+16 30	+13 20	215 Stair	218 1/2	26.0 10	26.8 10	28.0 86 Station
153.44	152.04	147.44	143.64	134.84	128.24	125.64	123.74	124.44
+40 45	+26 10	20 30	58 20	146	214 10	23.8 40	25.7 50	25.0 75
155.54	153.54	148.64	145.14	137.74	132.74	127.44	123.54	126.14
+16 45	+11 10	0 30	2 20	117	169	22.0 10	20.9 10	25.3 70
156.85	153.85	151.05	148.15	149.44	135.85	126.65	124.35	147.35
16	50	3.8 30	18.7 20	190	25 10	34.8 10	36.5 70	33.5 75
159.25	158.95	156.55	152.45	144.85	137.25	131.75	127.85	125.45
65.8 10	40	84 10	100 10	160	22.6 10	29 40	58 60	85.4 82
157.45	158.15	155.85	152.15	144.55	137.55	133.65	130.55	126.15
18 45	20 10	88 10	89 20	163	26 30	27.8 10	20 50	24.7 88
160.85				160.85				

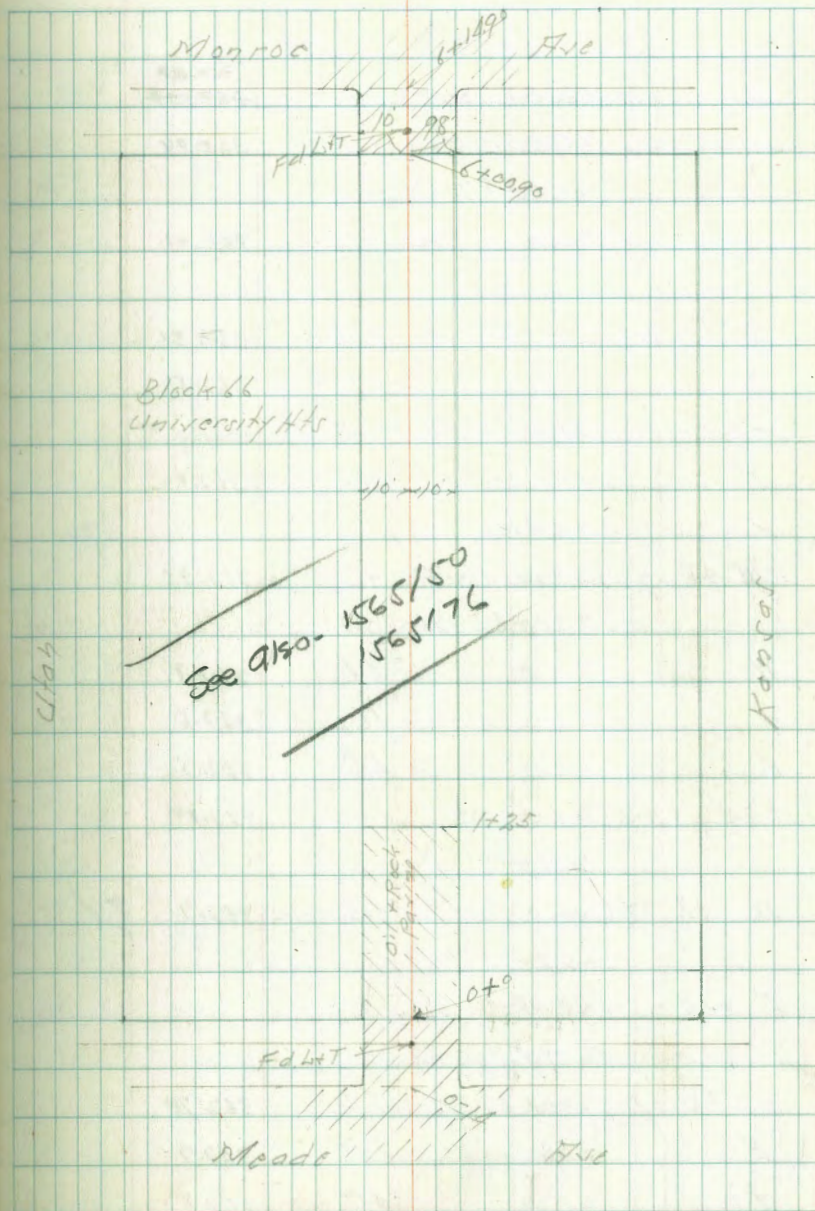
Gross Section Hilley Block 66 University Hts  
 From Meade Ave. to Monroe Ave  
 Between Citah + Kansas

B.M	545	372.23	366.98	S.F. BP Mcade + Kansas
	0-14 = Mcade Line Meade			
E	on Pav	5.27	366.96	
$\frac{1}{2}$	"	5.22	367.01	
$\frac{1}{4}$	"	5.20	367.03	
	0+0 = Mcade Line			
$\frac{1}{4}$	Top Ch	4.60	367.63	
"	Gutter on Pav	4.73	367.50	
$\frac{1}{2}$	"	5.05	367.18	
E	Gutter on Pav	4.95	367.28	
E	Top Ch	4.81	367.42	
	0+25			
E	= Fly Oil + Rock	4.63	367.60	
$\frac{1}{2}$	on " "	5.00	367.23	
$\frac{1}{4}$	"	4.6	367.6	
	0+47			
$\frac{1}{4}$ + 0.1	= $\frac{1}{4}$ Part of Pole			
	0+50			
$\frac{1}{4}$	"	4.6	367.6	
$\frac{1}{2}$	on oil + Rock	4.84	367.39	
15.4	= Fly Tail Pole			
E	= Fly 28 Conc Gutter to East 0+52	4.78	367.45	
$\frac{1}{4}$ - 5'	= $\frac{1}{4}$ Car Garage Conc Floor	4.29	368.00	

Indexed  
C.S.R.

Oct 9-45.  
Sisson  
Bliss  
Arthur

66



372.23

0+58

367.87

F = Fly Conc H prop 4.36 ~~368.04~~

F-5 = Fly 11 Car Garage 4.19 368.04

0+87

H-3 = Fly 4 Car Garage <sup>Case Floor</sup> 4.22 368.01

1+0

E = Fly Conc H prop 4.42 367.81

L 4.7 367.5

+9.3 = Fly Power Pole

H 4.4 367.8

1+16

H-4.5 = 1/2 Do Garage Conc Floor 4.27 367.96

1+2.5 = Fly Oil + Rock Pav.

H 4.4 367.8

L 4.6 367.6

F 4.5 367.2

+0.3 = Fly Conc H prop 4.43 367.80

1+46

H-3.5 = 1/2 Garage Dirt Floor 4.5 367.7 (9)

L+72

E +1.5 = Fly Tel Pole

1+75

-0.85 = Fly Conc H prop <sup>For 11 Car Garage</sup> 4.45 367.78

F 4.5 367.2

L 4.7 367.5

H 4.7 367.5

67

372.23 ✓

2+0

-20 4.8 367.4

H 4.6 367.6

L 4.6 367.6

F 4.3 367.9

2+11

H+0.5 = Fly Power Pole

2+20

H-1.9 = 1/2 Garage Dirt Floor 5.2 367.0

2+30

-1.5 5.2 367.0

F 4.0 368.2

+1.5 4.4 367.8

L 4.5 367.7

+7 4.5 367.2

H 5.1 367.1

+1.5 5.1 367.1

+2.5 4.9 367.3

2+55

-1.5 5.2 367.0

H 5.2 367.0

+2 4.6 367.6

L 4.6 367.6

F 5.0 367.2

+1.5 5.2 367.0

372.23

3+77

F -1.9 = 5/4 5' Car Garage ↓ Flrs Under Construction	3.74	368.49	Top Conc Foundation
---	------	--------	------------------------

3+80

F	5.4	366.8	
+3	4.8	367.4	
1/2	4.9	367.3	
H	4.9	367.3	
+15	4.4	367.8	

3+81

E+1.7 = Fly Tel Pole ↓			
JP	6.60	373.90	4.93
			367.30

3+84

F -1.9 = 1/4 5' Car Garage ↓ Flrs Under Const.	5.41	368.49	Top Conc Foundation
---	------	--------	------------------------

3+85

H	6.4	362.5	
+0.3 = 1/4 Post Pole			
1/2	6.6	362.3	
F	6.5	362.4	

3+88

H -0.2 = 5/4 Conc H Prop	5.84	368.06	
H -6.7 = 5/4 5' Car Garage	5.30	368.60	Construction

3+84

F -1.0 = 1/2 Garage Plank Floor	6.7	362.2	
---------------------------------	-----	-------	--

373.90

3+50

+15	6.4	367.5	
F = 5/4 Wire Fence	6.2	367.7	
1/2	6.2	367.7	
H	6.0	367.8	
+0.3 = Fly Conc H Prop	5.90	368.00	

3+71

H -0.2 = 1/4 Conc H Prop	5.88	368.02	
H -6.7 = 1/4 5' Car Garage	5.26	368.64	Conc Floor

3+75

H	6.1	367.8	
1/2	6.4	367.5	
F	6.0	367.9	
+15	6.2	367.6	

4+0

+15	6.2	367.7	
F = Latk Fence	6.2	367.7	
1/2	6.4	367.5	
H	6.2	367.6	

4+25

H	6.1	367.8	
1/2	6.2	367.7	
F = Picket Fence	6.4	367.5	
+15	6.5	367.4	



37290

4+48

M - 0.2 = 1/2 Fly Conc Apron 5.79 368.46

M - 7.3 = 1/2 Garage Conc Floor 5.40 368.50

4+50

F 5.7 368.2

1/2 5.8 368.1

M 5.7 368.2

4+51

F + 0.7 = 1/2 Fly Wire Fence

4+88

M + 1.0 = 1/2 Fly Post Pole

5+0

M 5.1 368.8

1/2 5.1 368.8

+ 9.2 = 1/2 Fly Wire Fence = 1/2 Fly Latex Fence

F 4.91 368.0

5+38

M - 2 = 1/2 Old Garage Dirt Floor 3.9 370.0

5+50

F 3.9 370.0

+ 0.7 1/2 Fly Latex Fence = 1/2 Fly Wire Fence

1/2 4.0 369.9

M 4.0 369.9

5+80

F + 1.7 = Fly Tail Pole

37390

5+85

M 3.0 370.9

1/2 3.4 370.5

F 3.2 370.7

6+00.90 = 1/2 Fly Manrook Hdr

F Top Cb 2.74 371.14

F Gutter on Paving 2.81 371.09

1/2 " " 3.02 370.88

M - Gutter " " 2.95 370.92

M Top Cb 2.83 371.07

6+14.9 = 1/2 Fly Manrook Hdr

M on Paving 3.56 370.34

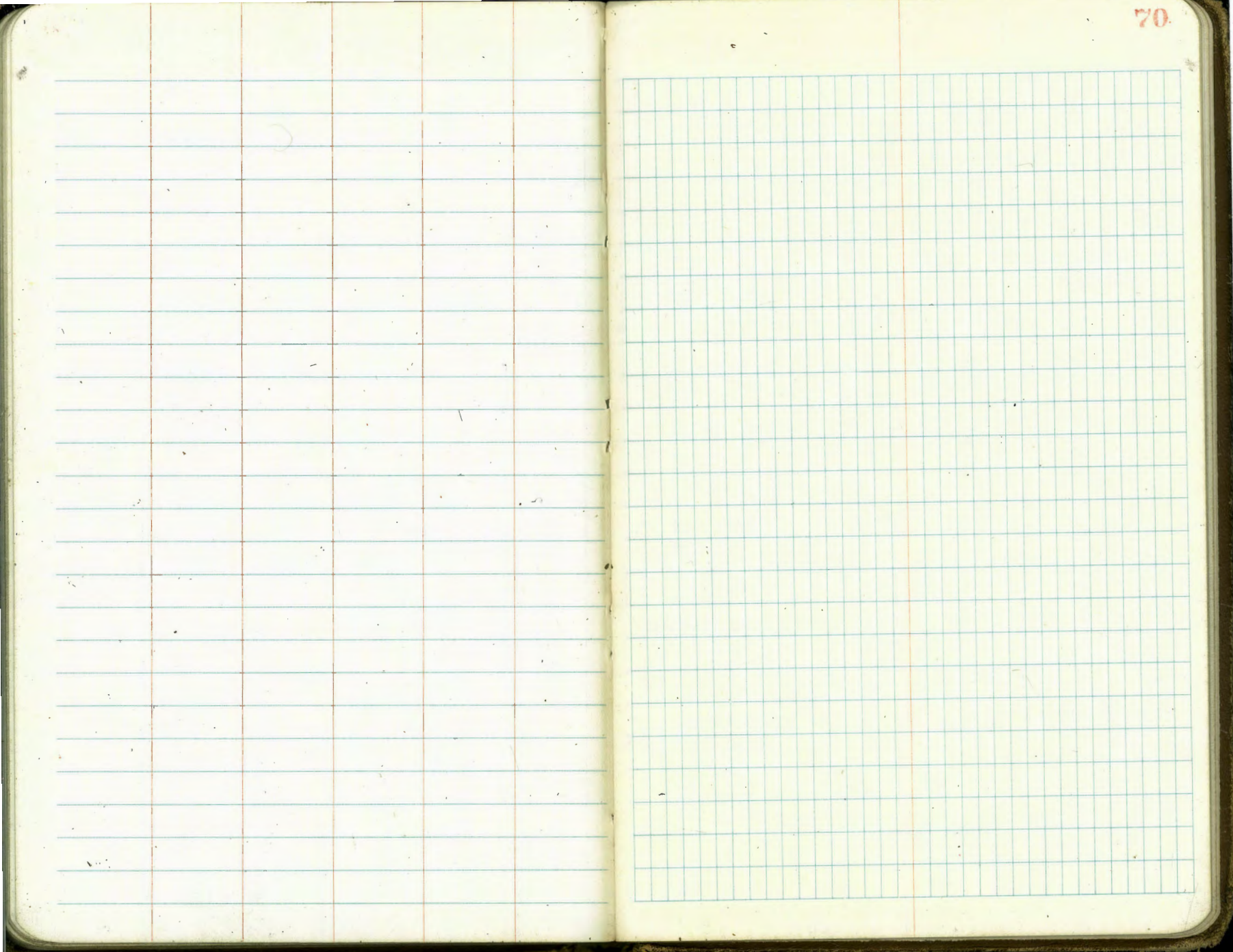
1/2 " " 3.46 370.44

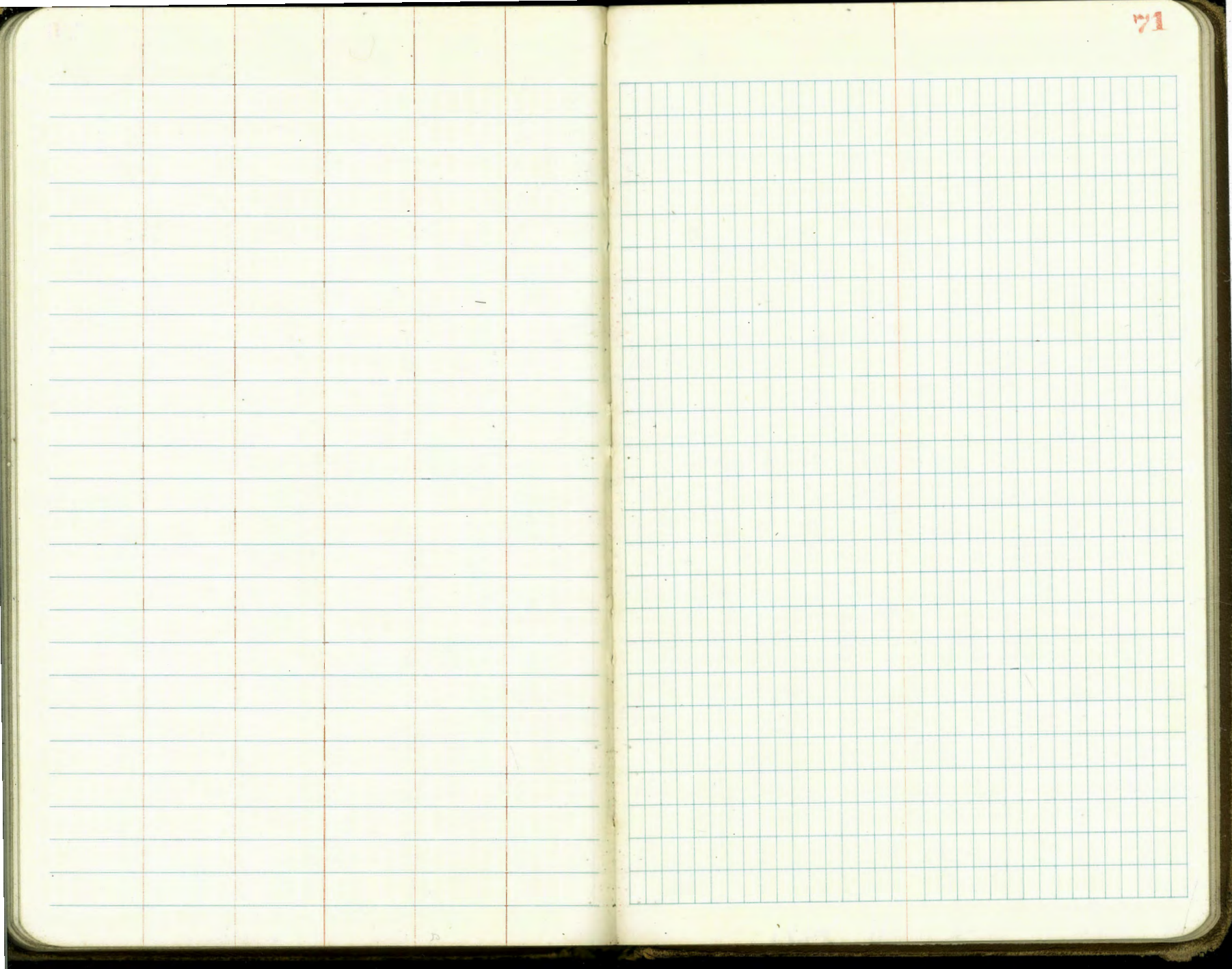
F 3.44 370.46

TP 9.01 380.02 2.89 371.01

BM 0.99 379.03

5+88  
Manrook Hdr  
378.95

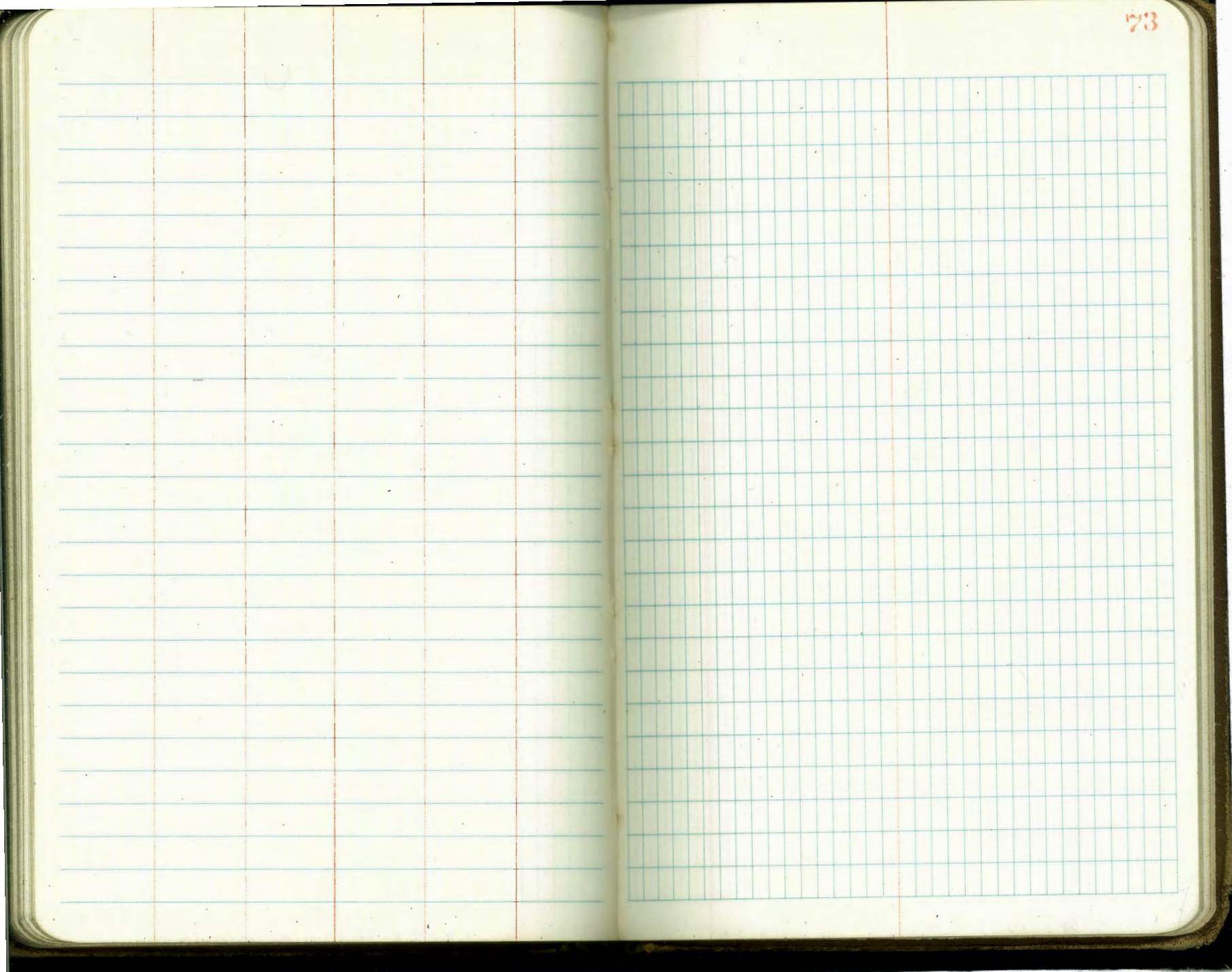


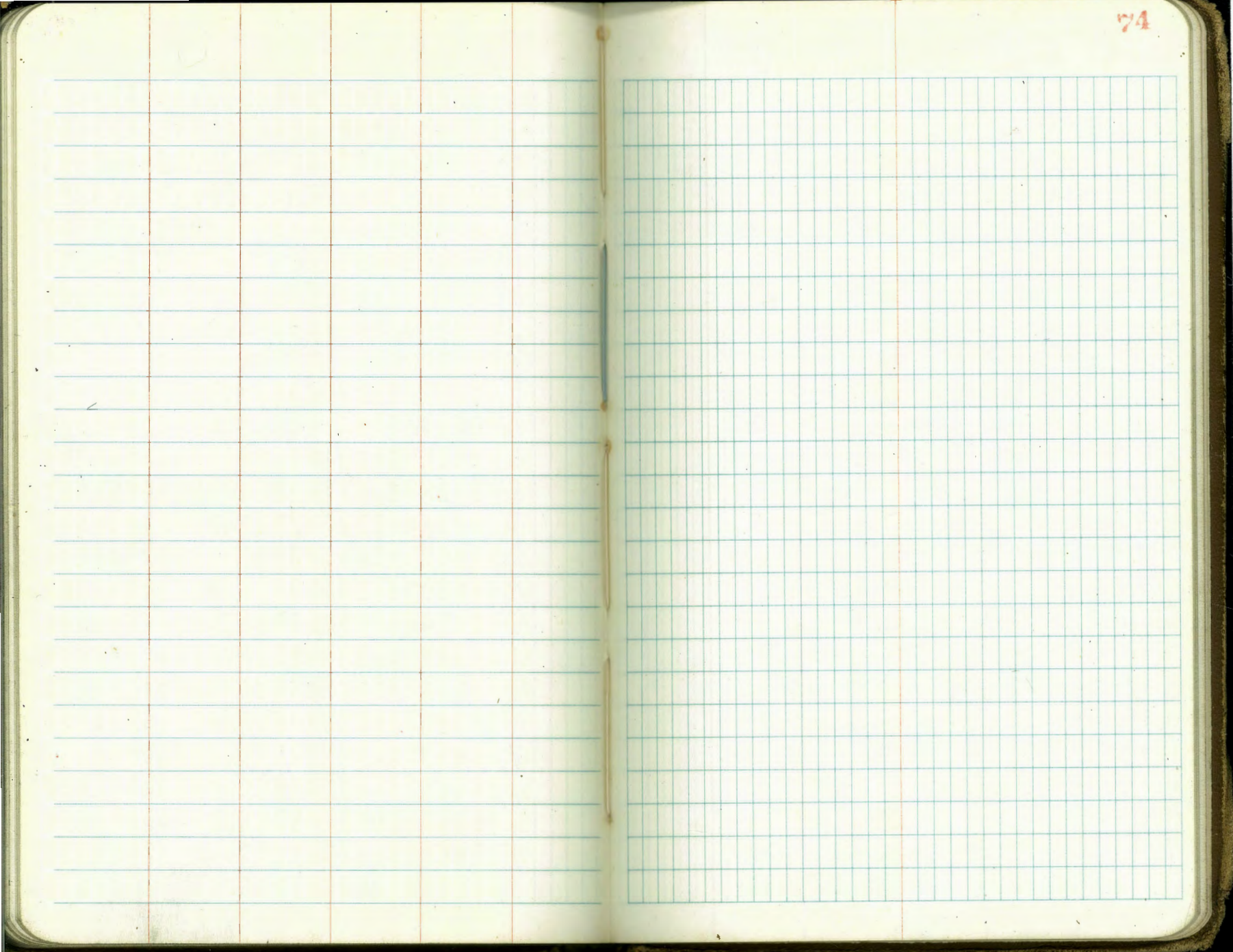


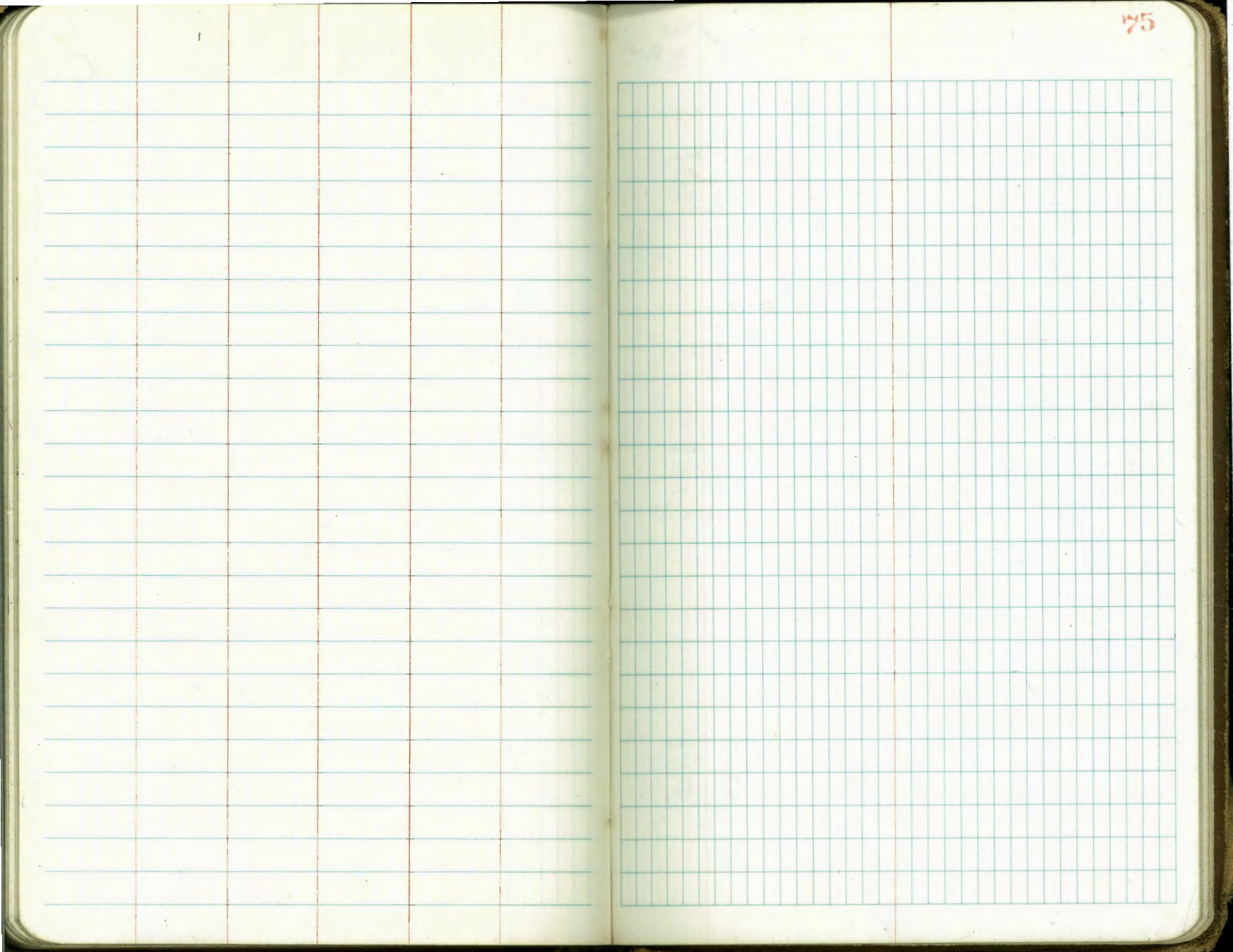
A table with 4 columns and 20 rows, defined by blue horizontal lines and red vertical lines. The table is empty.


A table with 20 columns and 20 rows, defined by blue horizontal and vertical lines. The table is empty.


*[Faint handwritten marks]*







Levels Kurtz, Rosecrans Wly

check to RR Rail Greenwood  
BM.  $2.81$   $4.49$   $11.50$   
 $2.8$   $4.44$   $7.30$   $5.02$   $2.81$

Ely edge Ely Lane of State work, on diag line

$2+76$  Int. 18" drain

$1+70$

T.P.  $6.31$   $7.88$   $6.30$   $1.57$

$2+77$

$0+10$

$100 \times 200$  - wly Rosecrans

Top of  $\Phi$  of 4" x 30" inlet

$2+80.8$  = Pav edge

$0+80$

$0+75$

$7.87$  front  
 $P.78$

This BM has been ruined

Lt

2

1/17

	$3.72$		$3.72$		$3.85$
	$4.16$		$4.12$		$4.93$
	SL				NL
	Kurtz				Kurtz
$-0.02$			$2.9$		$1.5$
$7.90$			$5.0$		$6.4$
FL outlet		$2.5$	$90$		$2.5$
	$1.5$		$1.7$		$1.7$
	$6.4$		$6.7$		$6.7$
	$2.5$				$2.5$
			$7.88$		
	$2.28$				
	5.00				
	14.5				
	Wedge				
	drive 814 Pav.				
					$2.57$
					$5.53$
					$14.95$ Top of end
$3.25$	$2.17$	$2.49$	$2.0$	$1.5$	$2.29$
$5.62$	$5.70$	$5.78$	$5.9$	$6.4$	$5.58$
16	16	15		9.7	6.6
CB	9.7	1.9.7		9.7	16.8
in drive				10.8	
					$1.37$
					$2.28$
					$5.52$
					$13.41$
					9.7
					6.6
					3.62
					3.62
					FL.
	$2.07$	$2.08$	$2.33$	$1.56$	$2.31$
	$5.02$	$5.79$	$5.54$	$6.31$	$5.56$
	$22.5$	$22.5$		$2.7$	$2.7$
	CB	9.7		9.7	6.6
$3.02$	$2.28$	$2.24$	$2.27$	$1.98$	$2.29$
$4.25$	$5.59$	$5.55$	$5.40$	$5.89$	$5.58$
33	33	25		25	45
CB	9.7	14.4			15
					CB
					out
					9.7
		$2.57$	$2.58$	$2.27$	
		$5.30$	$5.29$	$5.00$	
		$2.5$		$2.5$	
		Pav.		Pav.	

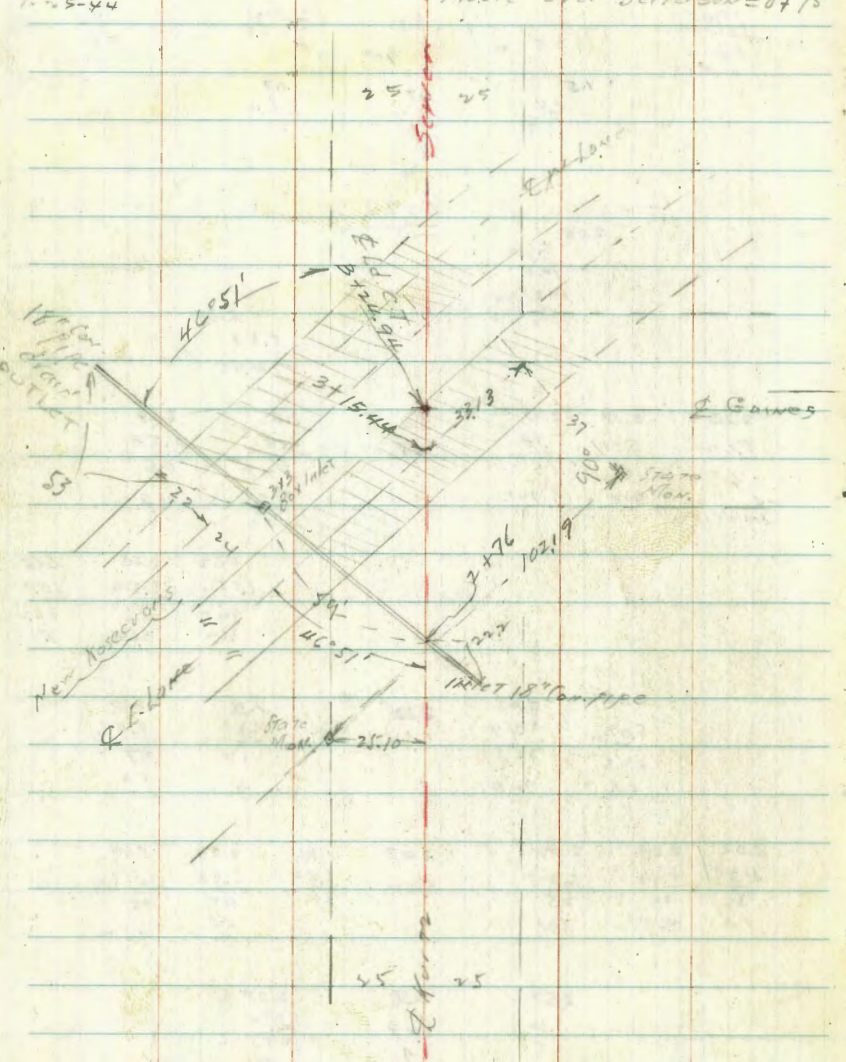
ON RR SPIKE  
 $7.87$



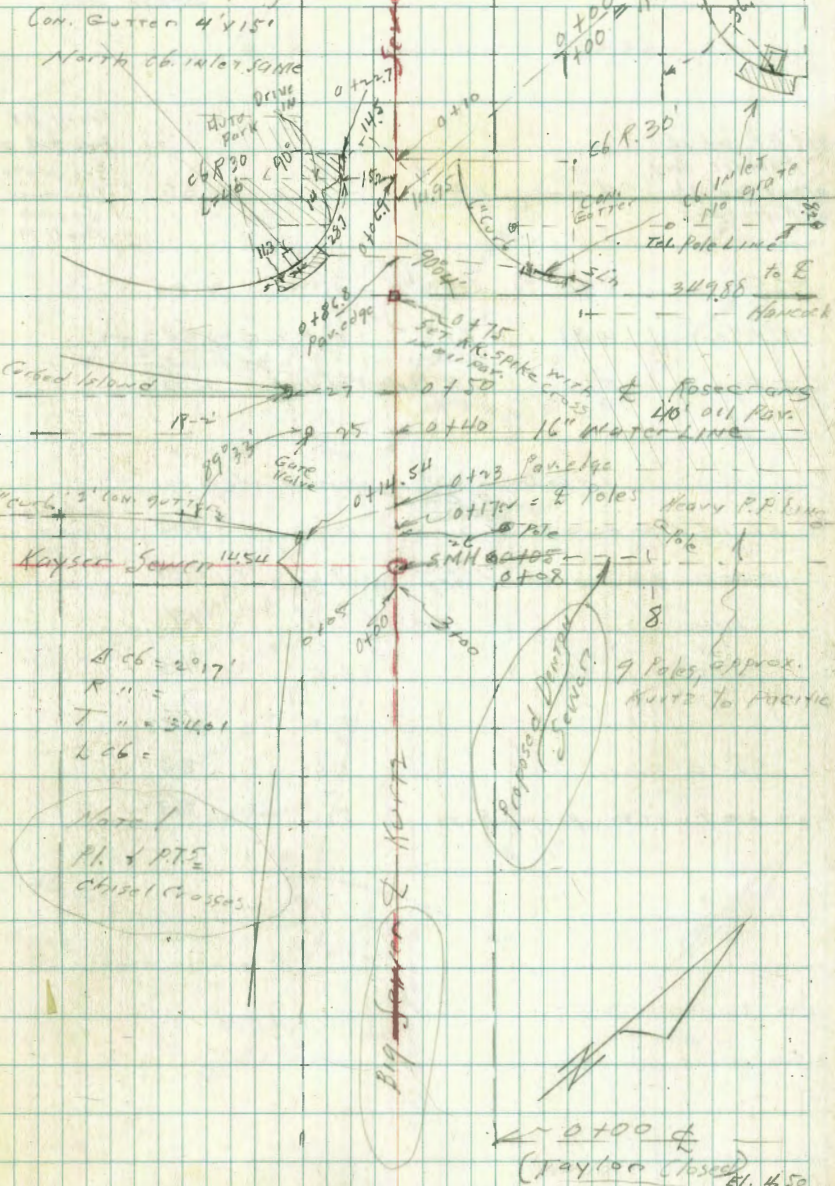
Indexed  
C.S.K.

Levels for drainage

William Roscorans & Kurtz Note! old Man. 001.  
 2nd Floor  
 1-5-44  
 Reser 2x2 Hob. by Prod.  
 Greenwood over 6.5mg  
 Moore over Jefferson = 0+75



Conc. Cleanout Box 3 x 4.4 inside  
 do. Con. Cover 4.5 x 5.1 outside  
 No grate  
 36" x 6" curb inlet opening



Grid Island  
 18-2  
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G.P.H. Please Note R.R. Iron Car & B.M. at SE 1/4  
 destroyed by Housing Project Greenwood & Hancock

Levels on Kurtz  
Wallace to Gaines (New Rosecrans)  
STATE HIGHWAY.

BM BP which Pacific Hwy approx 800' SW of Rosecrans	4.00	<u>7.31</u>		4.31
T.P.	3.94	<u>6.83</u>	5.44	2.89
T.P.	4.81	<u>7.15</u>	4.49	2.34
T.P.	5.14	<u>7.87</u>	4.44	2.73

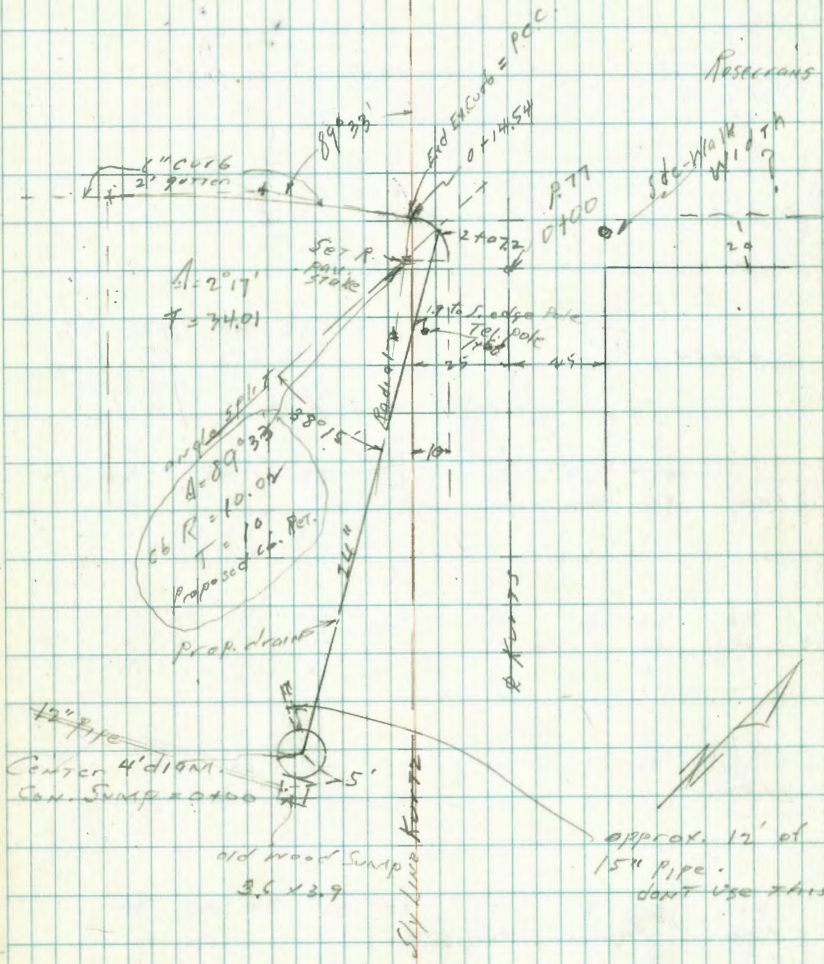
From P.P.  
Iron BM 450  
See NOTES  
DENTON  
Senior  
Prelim.

Levels on Proposed drain  
7.87

El. 12" pipe on S	12.00	-4.13	
± 00 ground at Circular Sump	7.0	0.87	
± 10	6.2	1.7	
± 50	6.6	1.3	
1	6.8	1.5	
± 50	5.6	2.3	
2 ± 0.70 = Ctr. Prop. Ret.	5.4	2.3	

IN Wood  
Sump  
Box

Sly Cor Rosecrans & Kurtz



Cont'd P. 76

0 + 50 F. Rosecrans

0 + 40 Int. of 16" Marol

0 + 23 per edge on diag.

0 + 14.54

7.87 Fwd. P. 78

3 + 00 - Ely Rosecrans - 0 + 00

2 + 00 end ditch

1 + 00

0 + 00 F. Taylor (closed)

7.15 Fwd.  
P. 78

3.24	2.72	2.63	2.43
4.65	5.17	5.24	5.74
2.75	2.7	2.5	2.5
Top Island	Par.	Par.	Par.

4.4  
10.1 = approx. Ctr. of 16" Marol  
2.5 Rod on approx. Ctr. of Horiz. Vetro  
Look up CUTS in G.P. # ?

2.31	2.35	2.37
5.56	5.52	5.50
2.5		2.5

2.31	2.96	2.15	2.72
5.56	4.91	5.72	5.15
9.3	7.5	2.5	2.5
9.47	0.6	9.47	end

7.87

2.5	1.9	2.5	2.5	2.0	2.4
4.7	5.3	4.7	4.4	4.7	4.5
2.5	2.0	1.5		1.5	2.5

1.3	1.5	2.0	3.1	2.0	1.8	2.5	2.8
5.7	5.7	5.2	4.1	4.4	5.4	4.7	4.8
	2.5	1.8		1.4	1.8	2.0	2.5

0.7	1.4	2.7	2.9	2.6	2.1	3.8	2.5
2.5	5.0	4.5	1.3	4.4	5.1	2.4	4.7
3.0	2.5	1.7		1.2	1.5	2.0	2.5

1.8	0.6	0.6	1.8	2.7	2.8	1.9	3.1	2.3
5.4	1.0	2.0	5.4	4.5	4.8	5.3	4.1	4.7
4.0	3.0	3.0	2.5		1.4	1.0	2.0	2.5

7.15

14/50/4

Levels on Pond South of Essex St.  
West of Park Blvd. April 14/44

BM	8.61	312.49	303.88	299.65	H.M.B.P. University College
TP	1.07	300.72	12.84	299.65	
TP	4.19	292.15	12.76	287.96	
BM		6.36	285.79		Chapel St. St. Paul St. Andrew St. John St. Peter St. Paul St. Andrew

TP	1.98	281.20	12.93	279.22	
----	------	--------	-------	--------	--

190' So. of St. Essex N. Pond 7.5 273.7

210' So. of St. Essex 8.1 273.1

235' So. of St. Essex N. Pond 8.2 273.0

Essex St.

240

1490

2735

Center

Pond

Park Blvd.

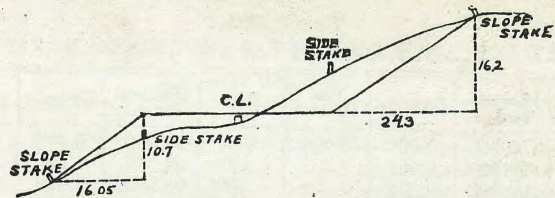
# IMPROVED TABLES AND INFORMATION

## HORIZONTAL STADIA CORRECTIONS

2°-00'	— 0.1	21°-00'	— 12.8	33°-00'	— 29.7
3°-00'	— 0.3	21°-30'	— 13.4	33°-15'	— 30.1
4°-00'	— 0.5	22°-00'	— 14.0	33°-30'	— 30.5
5°-00'	— 0.8	22°-30'	— 14.7	33°-45'	— 30.9
6°-00'	— 1.1	23°-00'	— 15.3	34°-00'	— 31.3
7°-00'	— 1.5	23°-30'	— 15.9	34°-15'	— 31.7
8°-00'	— 1.9	24°-00'	— 16.5	34°-30'	— 32.1
9°-00'	— 2.5	24°-30'	— 17.2	34°-45'	— 32.5
10°-00'	— 3.0	25°-00'	— 17.9	35°-00'	— 32.9
10°-30'	— 3.3	25°-30'	— 18.6	35°-15'	— 33.3
11°-00'	— 3.6	26°-00'	— 19.2	35°-30'	— 33.7
11°-30'	— 4.0	26°-30'	— 19.9	35°-45'	— 34.1
12°-00'	— 4.3	27°-00'	— 20.6	36°-00'	— 34.6
12°-30'	— 4.7	27°-30'	— 21.3	36°-15'	— 35.0
13°-00'	— 5.1	28°-00'	— 22.0	36°-30'	— 35.4
13°-30'	— 5.5	28°-30'	— 22.8	36°-45'	— 35.8
14°-00'	— 5.9	29°-00'	— 23.5	37°-00'	— 36.2
14°-30'	— 6.3	29°-30'	— 24.3	37°-15'	— 36.6
15°-00'	— 6.7	30°-00'	— 25.0	37°-30'	— 37.1
15°-30'	— 7.2	30°-15'	— 25.4	37°-45'	— 37.5
16°-00'	— 7.6	30°-30'	— 25.8	38°-00'	— 37.9
16°-30'	— 8.1	30°-45'	— 26.2	38°-15'	— 38.3
17°-00'	— 8.5	31°-00'	— 26.5	38°-30'	— 38.7
17°-30'	— 9.0	31°-15'	— 26.9	38°-45'	— 39.1
18°-00'	— 9.5	31°-30'	— 27.3	39°-00'	— 39.6
18°-30'	— 10.1	31°-45'	— 27.7	39°-15'	— 40.0
19°-00'	— 10.6	32°-00'	— 28.1	39°-30'	— 40.5
19°-30'	— 11.2	32°-15'	— 28.5		
20°-00'	— 11.7	32°-30'	— 28.9		
20°-30'	— 12.3	32°-45'	— 29.3		

1	.....	66
2	.....	132
3	.....	198
4	.....	264
5	.....	330
6	.....	396
7	.....	462
8	.....	528
9	.....	594
10	.....	660

100	....	1.515
200	....	3.030
300	....	4.545
400	....	6.060
500	....	7.575
600	....	9.090
700	....	10.606
800	....	12.121
900	....	13.636
1,000	....	15.151

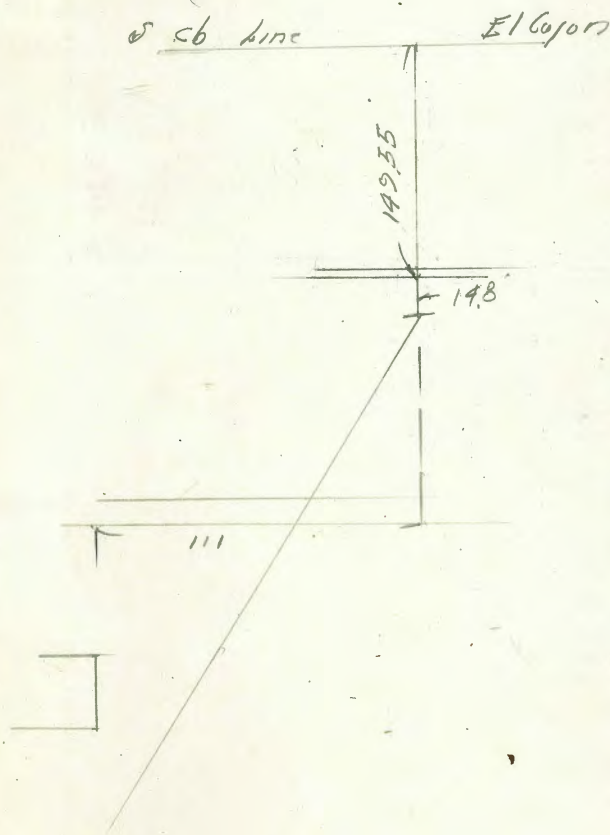


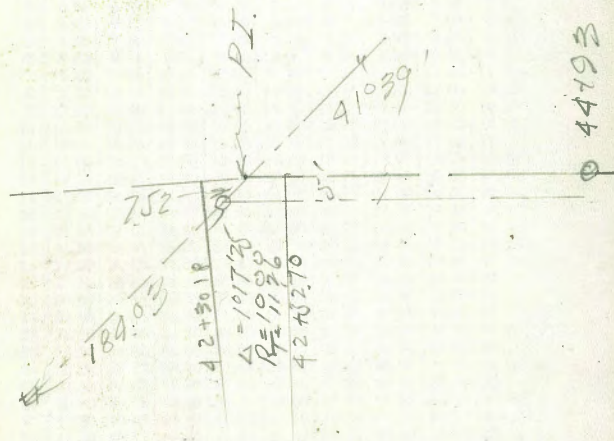
DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0 00	0 15	0 30	0 45	0 60	0 75	0 90	1 05	1 20	1 35	0
1	1 50	1 65	1 80	1 95	2 10	2 25	2 40	2 55	2 70	2 85	1
2	3 00	3 15	3 30	3 45	3 60	3 75	3 90	4 05	4 20	4 35	2
3	4 50	4 65	4 80	4 95	5 10	5 25	5 40	5 55	5 70	5 85	3
4	6 00	6 15	6 30	6 45	6 60	6 75	6 90	7 05	7 20	7 35	4
5	7 50	7 65	7 80	7 95	8 10	8 25	8 40	8 55	8 70	8 85	5
6	9 00	9 15	9 30	9 45	9 60	9 75	9 90	10 05	10 20	10 35	6
7	10 50	10 65	10 80	10 95	11 10	11 25	11 40	11 55	11 70	11 85	7
8	12 00	12 15	12 30	12 45	12 60	12 75	12 90	13 05	13 20	13 35	8
9	13 50	13 65	13 80	13 95	14 10	14 25	14 40	14 55	14 70	14 85	9
10	15 00	15 15	15 30	15 45	15 60	15 75	15 90	16 05	16 20	16 35	10
11	16 50	16 65	16 80	16 95	17 10	17 25	17 40	17 55	17 70	17 85	11
12	18 00	18 15	18 30	18 45	18 60	18 75	18 90	19 05	19 20	19 35	12
13	19 50	19 65	19 80	19 95	20 10	20 25	20 40	20 55	20 70	20 85	13
14	21 00	21 15	21 30	21 45	21 60	21 75	21 90	22 05	22 20	22 35	14
15	22 50	22 65	22 80	22 95	23 10	23 25	23 40	23 55	23 70	23 85	15
16	24 00	24 15	24 30	24 45	24 60	24 75	24 90	25 05	25 20	25 35	16
17	25 50	25 65	25 80	25 95	26 10	26 25	26 40	26 55	26 70	26 85	17
18	27 00	27 15	27 30	27 45	27 60	27 75	27 90	28 05	28 20	28 35	18
19	28 50	28 65	28 80	28 95	29 10	29 25	29 40	29 55	29 70	29 85	19
20	30 00	30 15	30 30	30 45	30 60	30 75	30 90	31 05	31 20	31 35	20
21	31 50	31 65	31 80	31 95	32 10	32 25	32 40	32 55	32 70	32 85	21
22	33 00	33 15	33 30	33 45	33 60	33 75	33 90	34 05	34 20	34 35	22
23	34 50	34 65	34 80	34 95	35 10	35 25	35 40	35 55	35 70	35 85	23
24	36 00	36 15	36 30	36 45	36 60	36 75	36 90	37 05	37 20	37 35	24
25	37 50	37 65	37 80	37 95	38 10	38 25	38 40	38 55	38 70	38 85	25
26	39 00	39 15	39 30	39 45	39 60	39 75	39 90	40 05	40 20	40 35	26
27	40 50	40 65	40 80	40 95	41 10	41 25	41 40	41 55	41 70	41 85	27
28	42 00	42 15	42 30	42 45	42 60	42 75	42 90	43 05	43 20	43 35	28
29	43 50	43 65	43 80	43 95	44 10	44 25	44 40	44 55	44 70	44 85	29
30	45 00	45 15	45 30	45 45	45 60	45 75	45 90	46 05	46 20	46 35	30
31	46 50	46 65	46 80	46 95	47 10	47 25	47 40	47 55	47 70	47 85	31
32	48 00	48 15	48 30	48 45	48 60	48 75	48 90	49 05	49 20	49 35	32
33	49 50	49 65	49 80	49 95	50 10	50 25	50 40	50 55	50 70	50 85	33
34	51 00	51 15	51 30	51 45	51 60	51 75	51 90	52 05	52 20	52 35	34
35	52 50	52 65	52 80	52 95	53 10	53 25	53 40	53 55	53 70	53 85	35
36	54 00	54 15	54 30	54 45	54 60	54 75	54 90	55 05	55 20	55 35	36
37	55 50	55 65	55 80	55 95	56 10	56 25	56 40	56 55	56 70	56 85	37
38	57 00	57 15	57 30	57 45	57 60	57 75	57 90	58 05	58 20	58 35	38
39	58 50	58 65	58 80	58 95	59 10	59 25	59 40	59 55	59 70	59 85	39
40	60 00	60 15	60 30	60 45	60 60	60 75	60 90	61 05	61 20	61 35	40
41	61 50	61 65	61 80	61 95	62 10	62 25	62 40	62 55	62 70	62 85	41
42	63 00	63 15	63 30	63 45	63 60	63 75	63 90	64 05	64 20	64 35	42
43	64 50	64 65	64 80	64 95	65 10	65 25	65 40	65 55	65 70	65 85	43
44	66 00	66 15	66 30	66 45	66 60	66 75	66 90	67 05	67 20	67 35	44
45	67 50	67 65	67 80	67 95	68 10	68 25	68 40	68 55	68 70	68 85	45
46	69 00	69 15	69 30	69 45	69 60	69 75	69 90	70 05	70 20	70 35	46
47	70 50	70 65	70 80	70 95	71 10	71 25	71 40	71 55	71 70	71 85	47
48	72 00	72 15	72 30	72 45	72 60	72 75	72 90	73 05	73 20	73 35	48
49	73 50	73 65	73 80	73 95	74 10	74 25	74 40	74 55	74 70	74 85	49
50	75 00	75 15	75 30	75 45	75 60	75 75	75 90	76 05	76 20	76 35	50

Computed by L. Leland Locke.





4252.70  
 - 11.26  
 4241.44 + pt  
 4493.00  
 251.56

44193