

1671



ENGINEERS
FIELD BOOK

No. 403F

1671

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and
SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

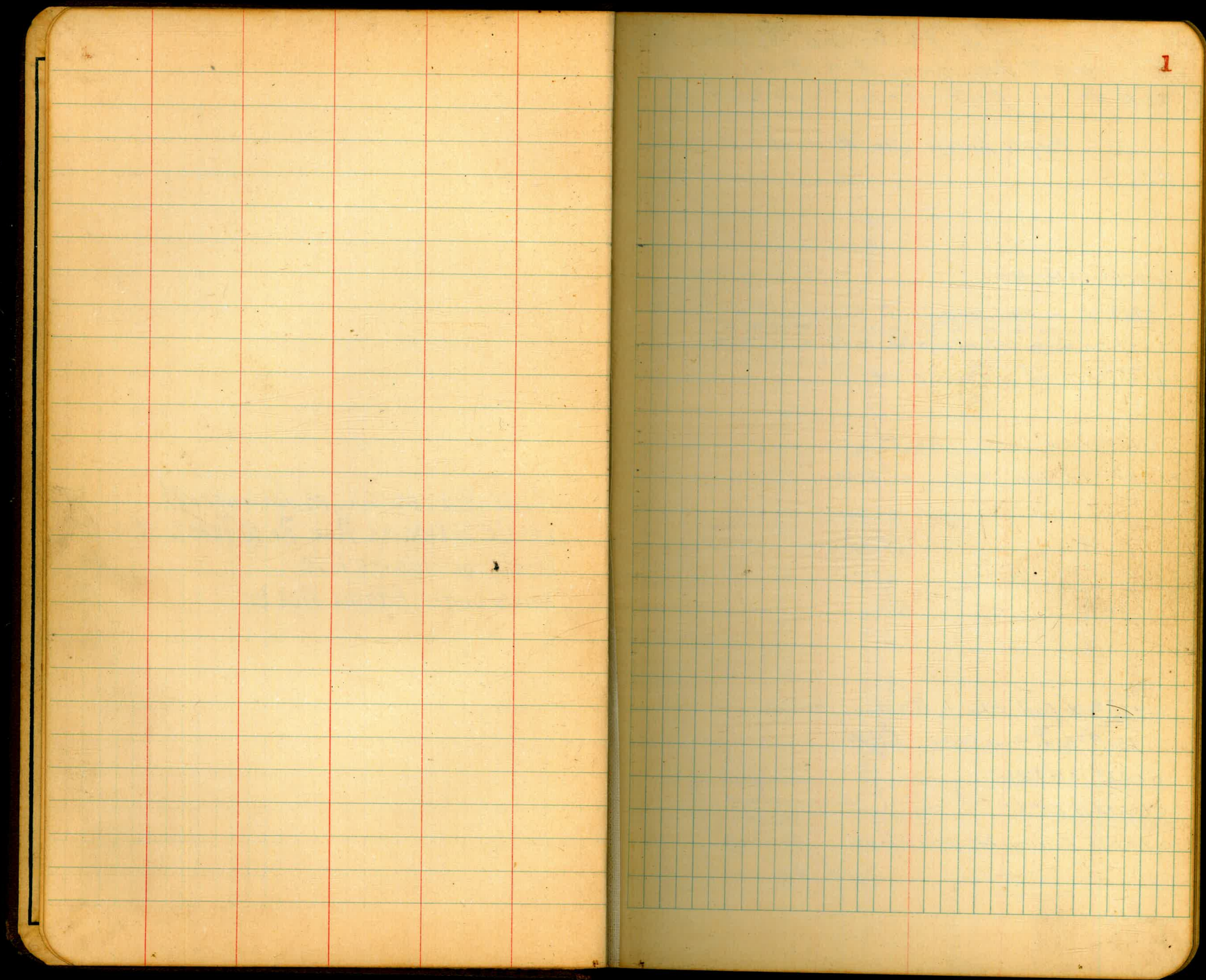
CITY ENGINEER'S OFFICE

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Made in U. S. A.

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be $30.6 - (20 - 16) \div 2$ or 2 ft. added to 30.6 = 32.6. For slopes of 1 on 1½ see inside of back cover.
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Alley Blk 136 Univ. Hs Vermont 107 th	35
Levels @ Adams Ave Br. @ Texas St	43
Levels on Adams Ave	45
Levels under Adams Ave Br.	52



Walker
Hazard
Hazard
7-22-44

LOCATION PROPOSED 16" WATER MAIN
ON 11TH AVE. FROM A. to B-ST.
AND ON B-ST FROM 11th to 25th St.

Profile levels (See P. 11-15)

Station

3+86.52 - ALT. 902

3+78.9 - S. Gauge S. St. Car Track

3+69.2 - N. Gauge N. Track (St. Car)

3+38.52 - POT. - Int. N 7" line "B"-St.

3+31.5 - Valve Cover 2.6' RT.

3+28.2 - Int. Valve Cover on line

+36.2 - Exst. Valve to Fire H/d. on line

+30.9 - Exst. Valve Cover 2.6' RT

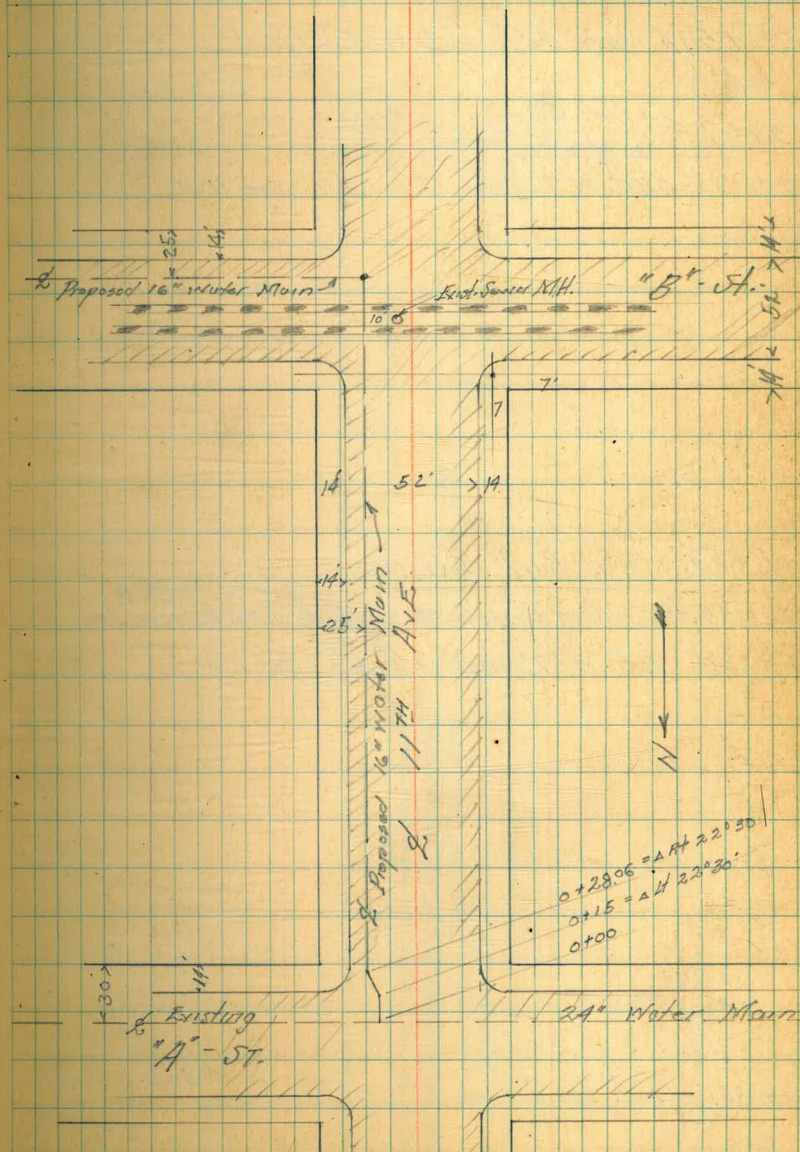
0+28.06 - ALT 22°30'

0+15 - ALT 22°30'

0+00 - Exst. 24" Water Main

Indexed
C.S.R.

2



~ "B" St. Water Main ~

Stations

9 + 57.4 = Int. Surface Drain Culvert

9 + 07.4 = Int. Surface Drain Culvert
 $\Delta 4^{\circ} 00' 32''$

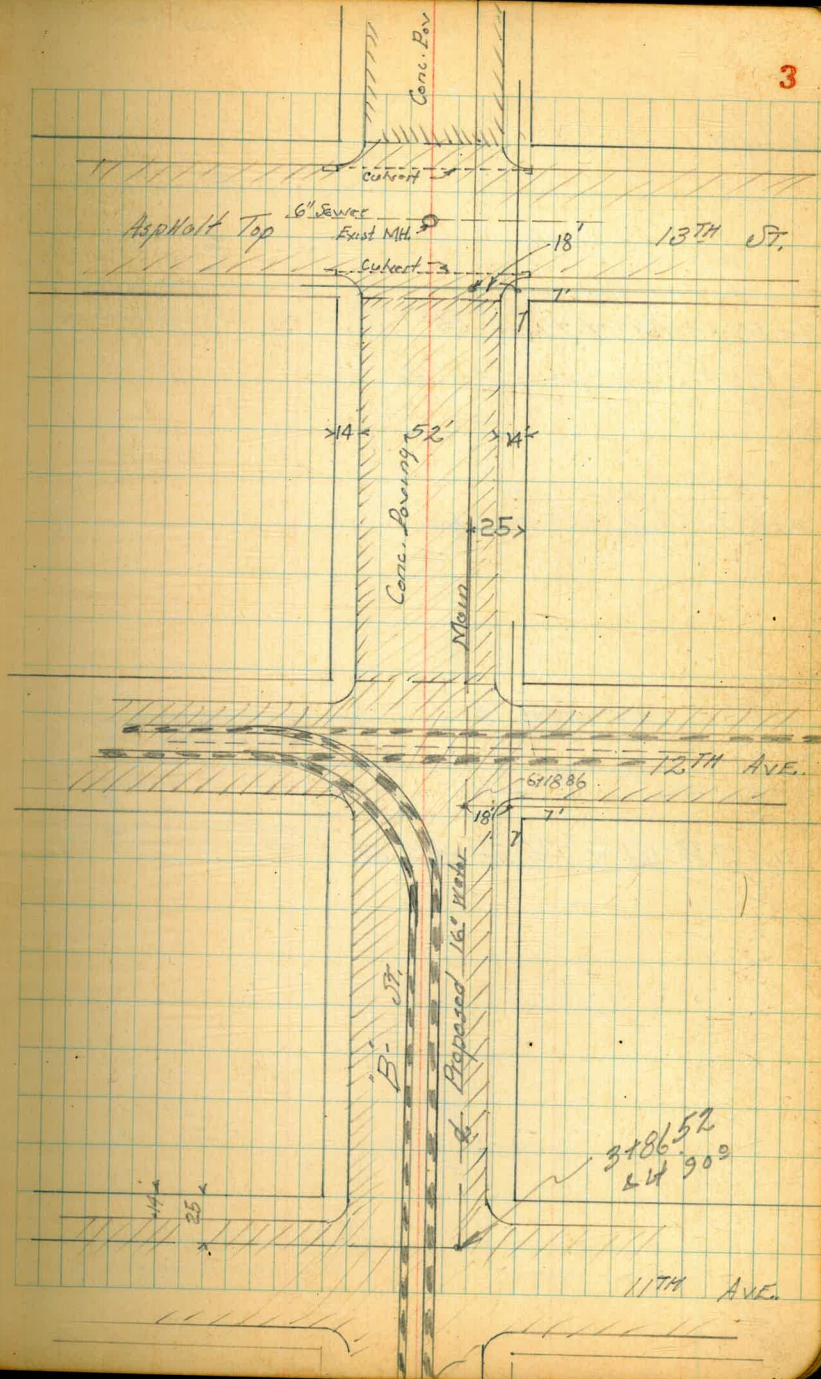
8 + 99.05 = Int. W 7' line 18th St Set Nail

6 + 59.21 = E. Rail / E. Track

6 + 44.46 = W Gauge W of Car Track

6 + 18.86 = Int. W - 7' line 18th Ave (Set Nail)

3 + 86.52 = Int. 90° 0'



~ "B" - St. Water Main ~

Stations

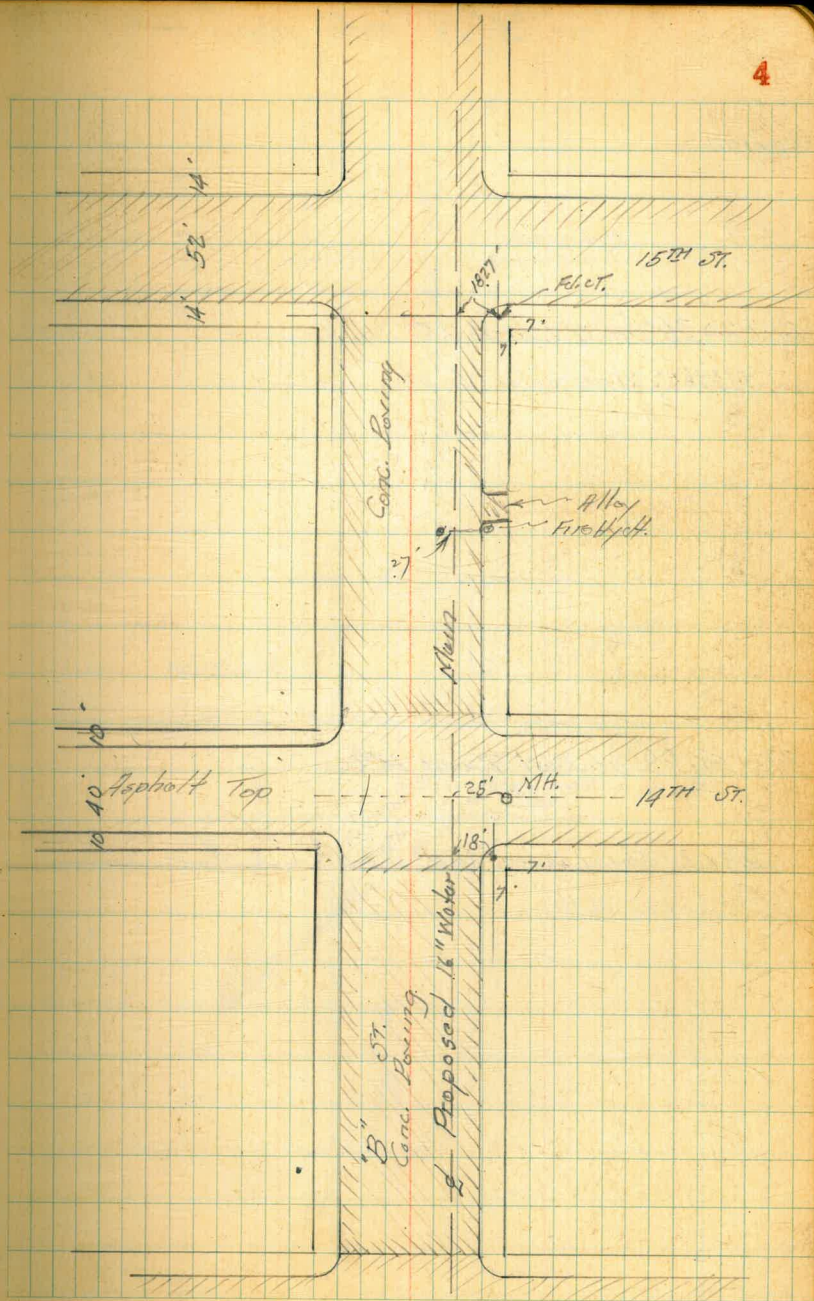
16+59.83 = Int. W 7" line 15th

16+52.6 = Water Valve 4.4' Lt.

14+48.7 2.7' Lt. = Water Valve

12+38.33 Water Valve 4' Lt.

11+79.33 = Int. W 7" line 14th St



"B" St. Water Main

Stations

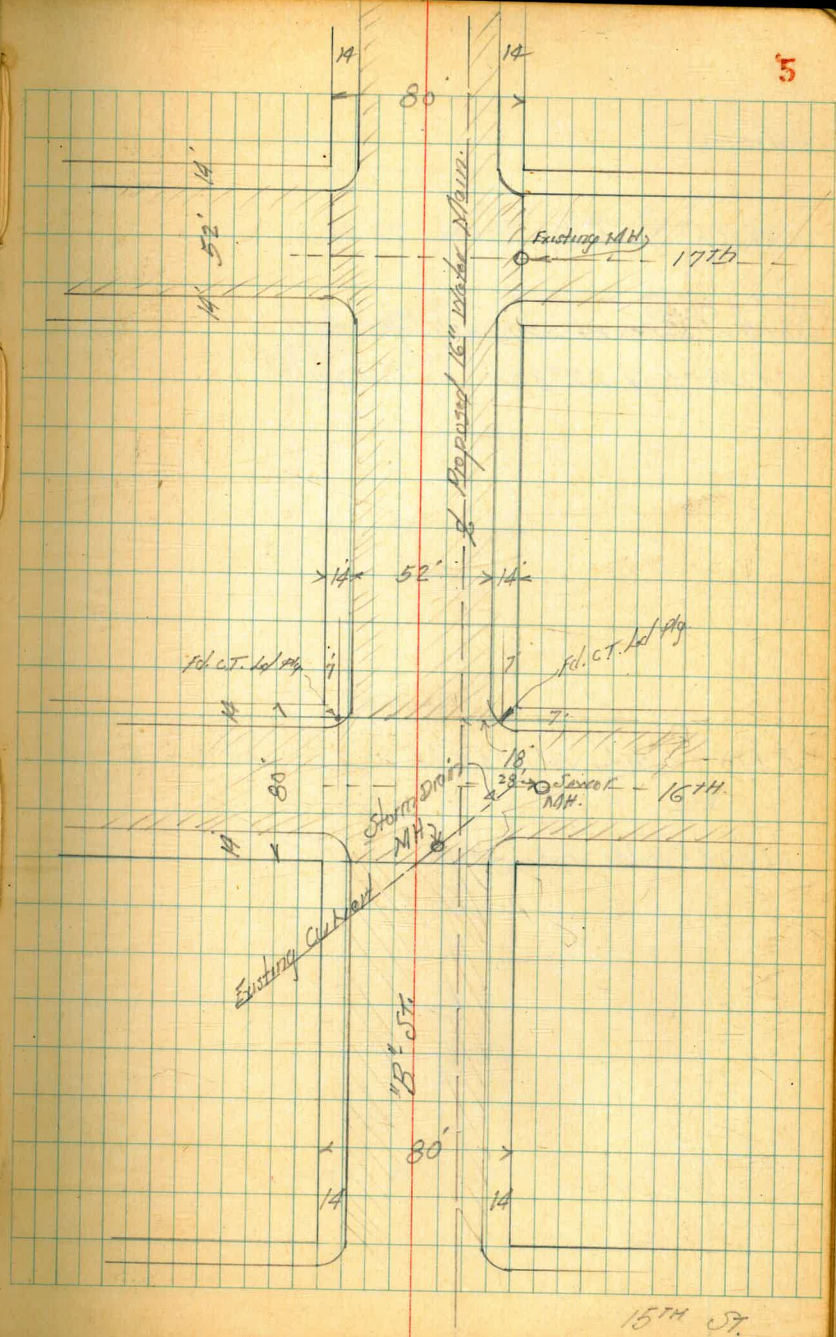
22+20.36 = Int. W 7' line 17th

+13.36 = Water valve 6' Lt

20+06.00 = Int. East 7' line 16th

19+36.8 = Storm Drain MH 7.3' Lt

19+33 = W.L. 16th



"8"-of. Water Main

Stations

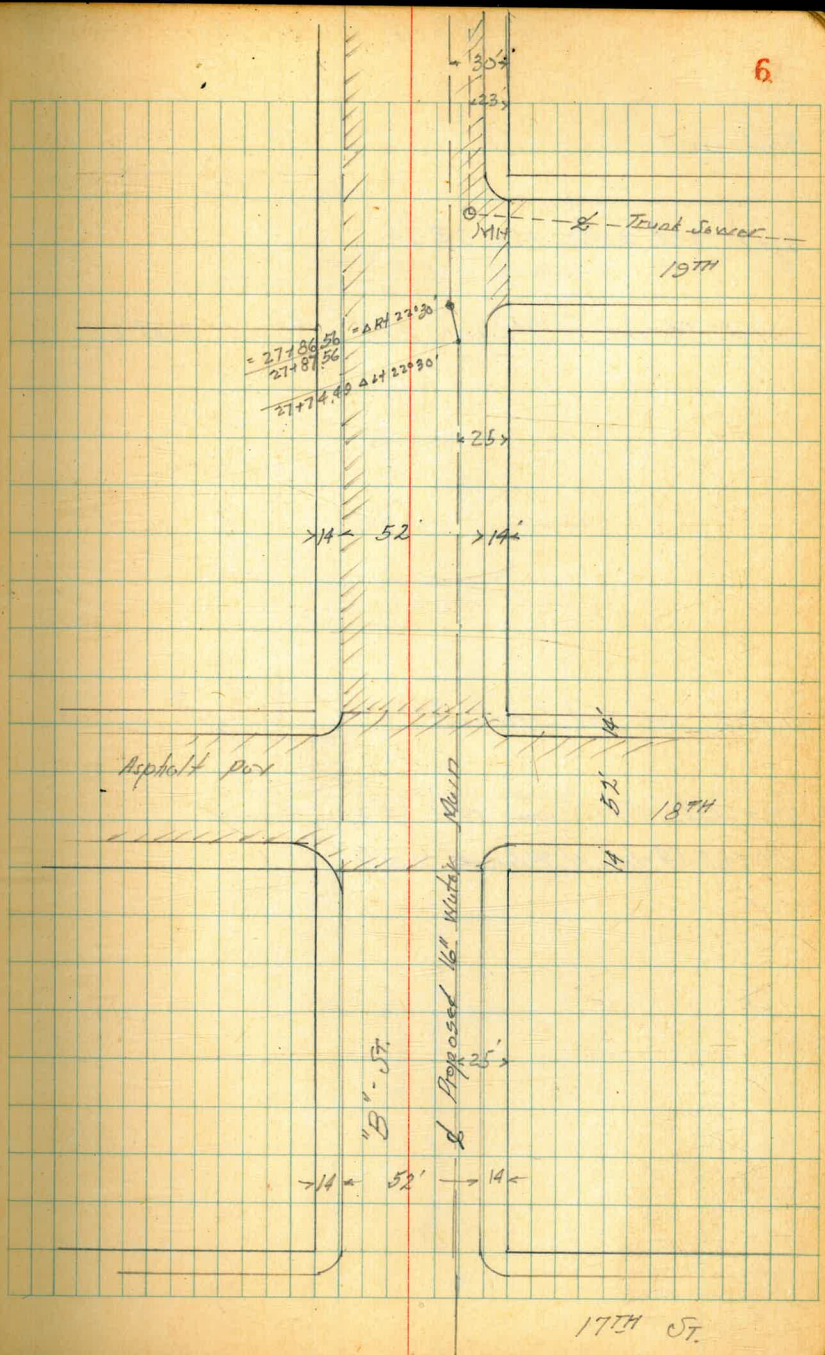
28736.6 = Trunk Sewer M.H. 7.3' RT.

= 27 + 86.56
 27 + 787.56 = Δ RT 22° 30' } Equation

27 + 744.9 = Δ L 22° 30' = M.H. 19th St.

25773.8 = Water Valve 4.6' Lt.

24794 = Water Valve 4' Lt.



~ "B" St. Water Main ~

Stations

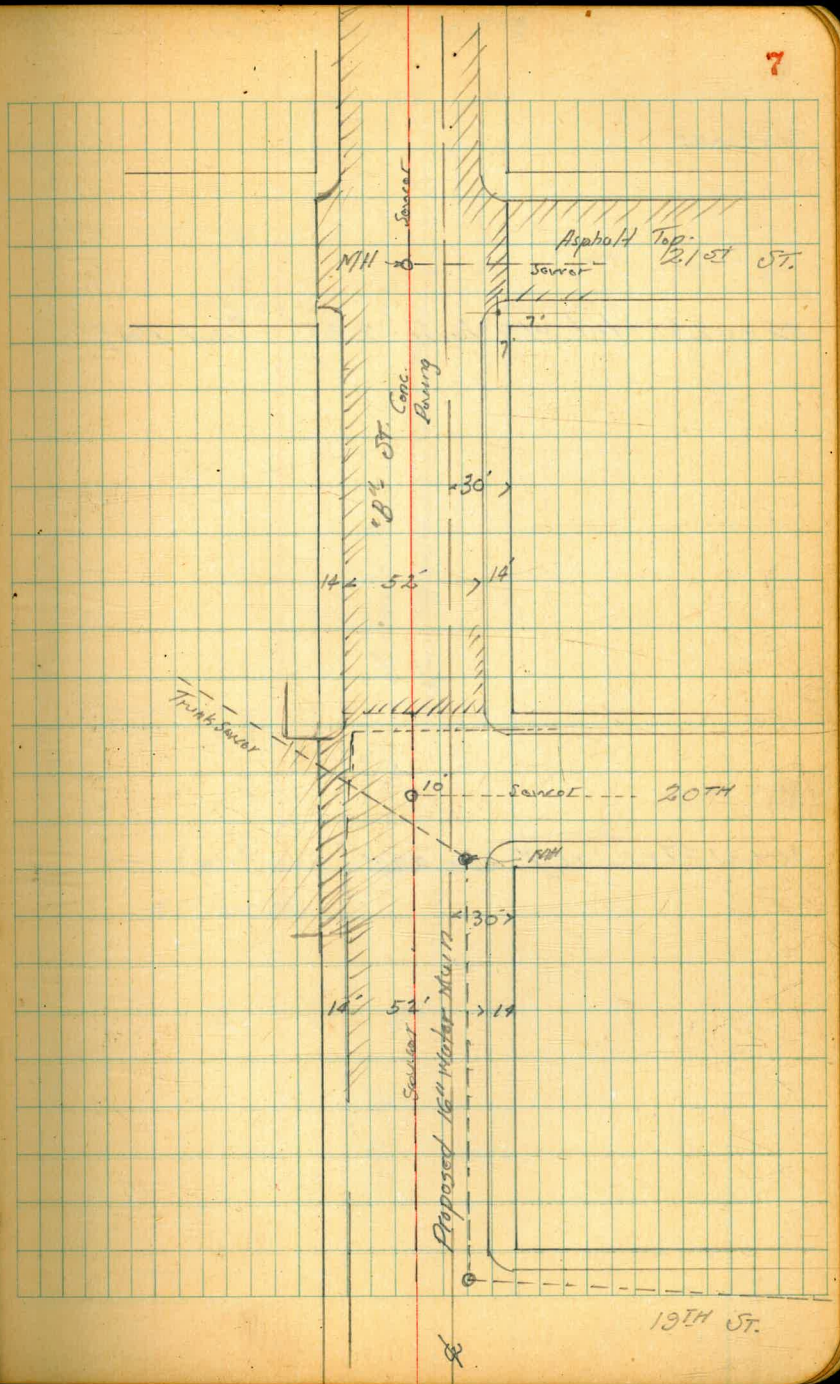
33+75.08 = Int. 21st MH 9.5 ft.

33+42.08 = Int. W 7' Line 21st (Cross 5' ft.)

31+22 = Int. Tol Conduit

30+66.8 = Trunk Sewer MH 6.6' RT.

30+62.54 = Int. W 7' Line 20th

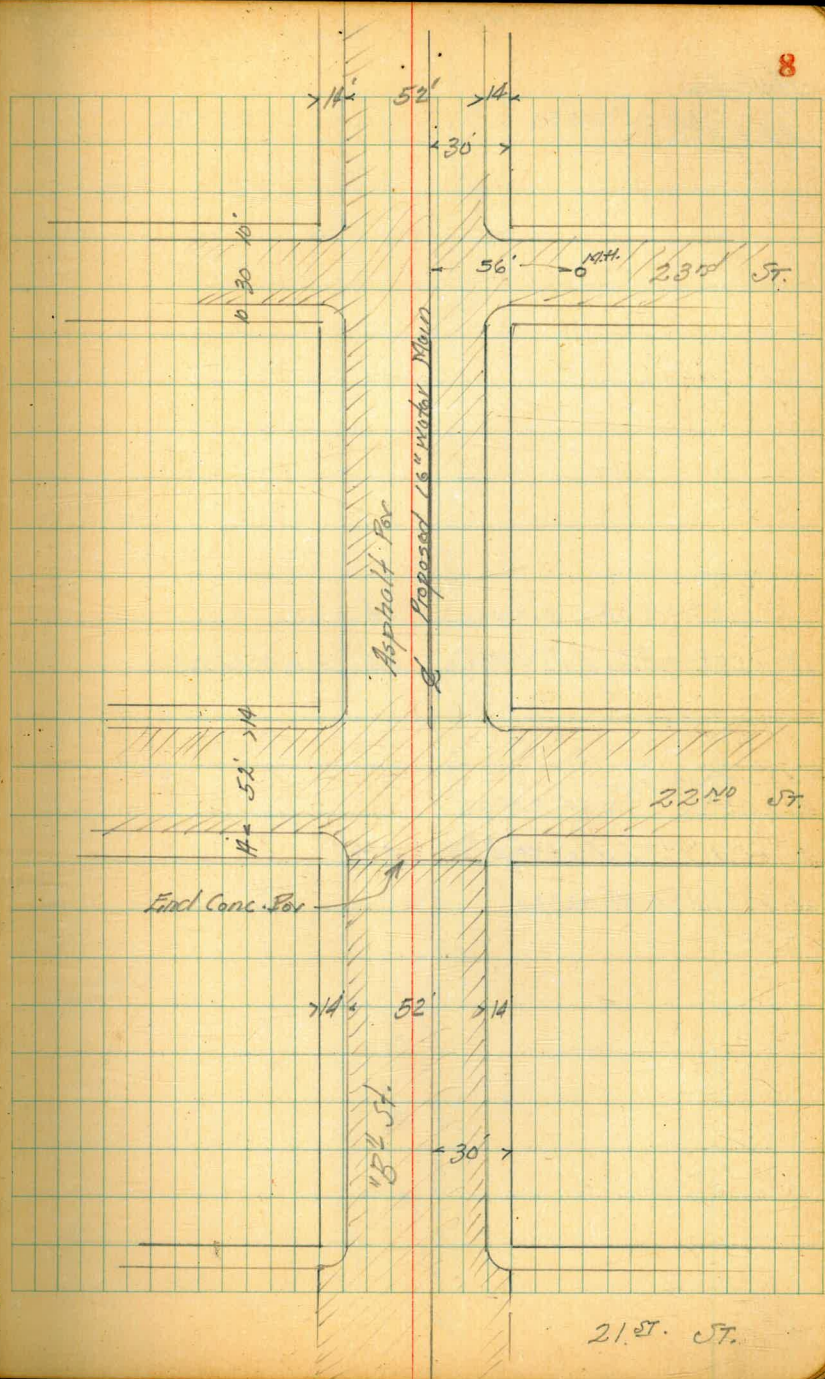


18th St. Water Main

Stations

39+02.61 - Int. w/ 7' line 22nd (Nail 5' R)

36+21.77 - Int. w/ 7' line 22nd (Nail 5' R)



"B" St. Water Main

Stations

44+00

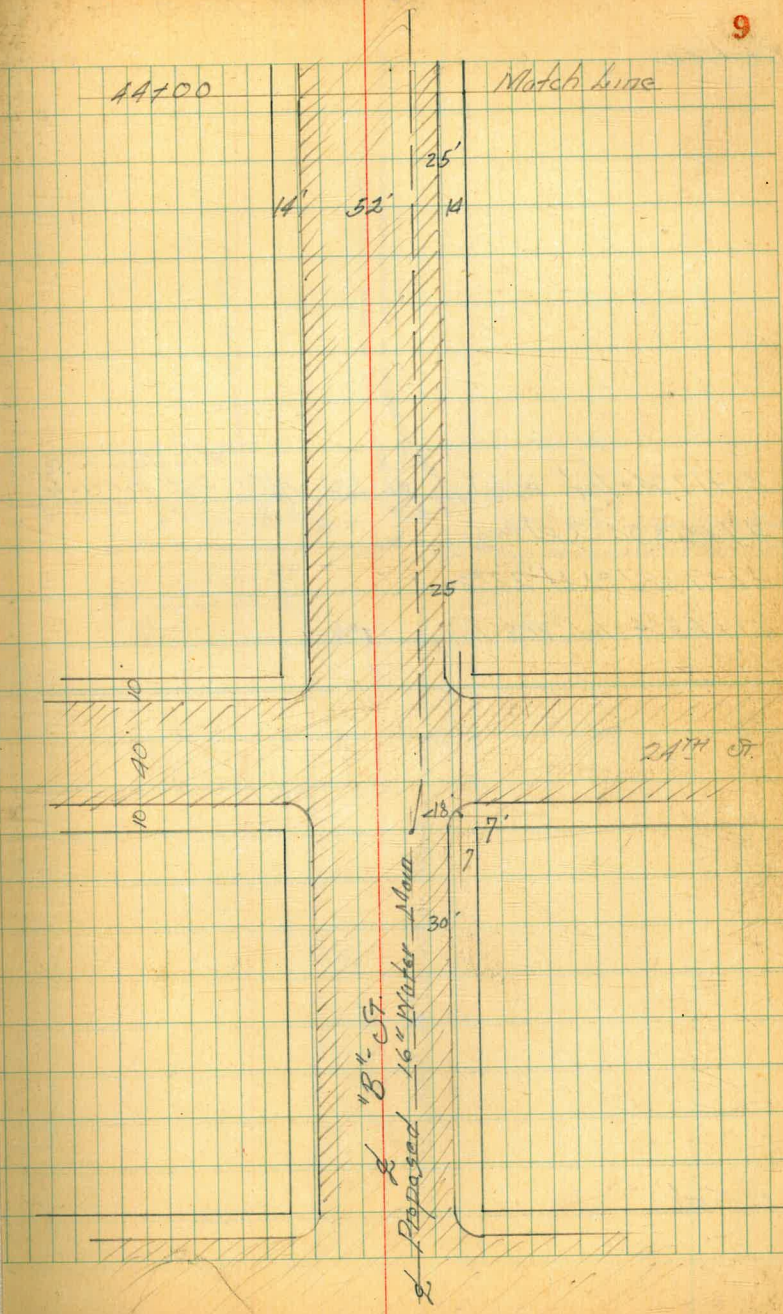
458.3 = Water Valve 1.5' Lt.

41+55.81 = EL. 24th St. 4.5' Lt. = Water Valve

= 41+07.886 Elevation
41+08.88 Δ Lt 22°30

41+03.39 = Int. w/ 7' Line 24th

40+25.81 = Δ Rt. 22°30

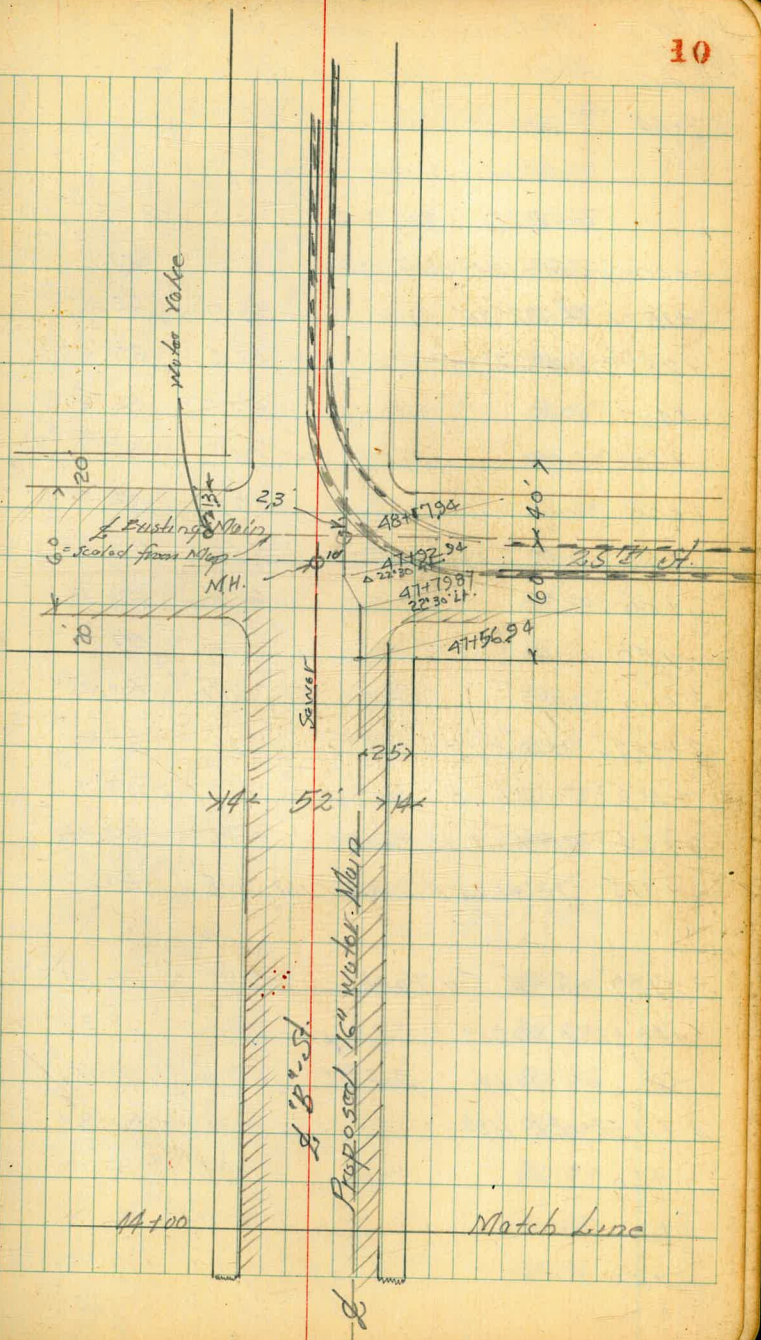


18" St. Water Main

Stations

48+17.94 = Int. Existing Water Main
 According to Scale
 Dist. per Water
 Dept 20th + 8.
 47+92.94 = Δ Rt. 22°30'
 47+79.87 = Δ Lt. 22°30'
 47+63.94 = Int. W. 7' Lane 28" H

44+00



44+00

Match Line

Walker
Howard
Hurdin
8-3-44
Preliminary Levels - Proposed 16" Water Main on 11th Ave from "A" to "B" St.
and on "B" St from 11th Ave to 25th St

Location on Page 2-10

7 W 8 P
11 1/2 B

82.29	91.24	82.95
0+00 = Int. East 24" Water Main	5.71	85.53
+15' Δ H 22°30'	6.19	85.05
+28' 06" Δ H 22°30'	5.75	85.49
+40	5.55	85.69
+50	5.52	85.72
+100	5.79	85.51
+50	5.99	85.25
2+00	6.26	84.98
+50	6.48	84.76
3+00	6.77	84.47
3+31.52 = N 1/2 "B" St	7.16	84.08
+45.52 = N 1/2 "B" on Cent.	7.52	83.72
3+64.2 = N Rail N Track	6.86	84.38
+71.5 10' Rt. on Rim Section 144	7.05	84.19
3+78.9 = S St. Cur Track	6.93	84.31
+86.52 Δ H 90°	6.90	84.32
T.P. 11.16 94.11	82.9	82.95
4+11.52 = E. 11th	9.28	84.83
+50	7.01	87.10
5+00	4.07	90.02
+50	1.13	92.98

T.P. 548	94.11	29.46	0.08	94.03
6+00			3.51	95.95
+11.86 = W. 13th Ave			2.88	96.58
6+14.46 = W St. Cur Track			2.71	96.75
+59.2 = E. Track (E. Rail)			2.71	96.75
6+91.86 = E. 12th on Conc. Pav			2.91	96.55
7+00 on Conc. Pav			3.11	96.35
+50 " " "			5.19	94.27
8+00 " " "			7.25	92.21
+50 " " "			9.20	90.26
+92.05 = W. 13th on Conc.			10.48	88.98
9+00 on Black Pav			10.54	88.92
9+07.4 = Int. Surface Drain			10.44	89.02
25' Rt. on Floor			12.95	86.51
55' Lt. " Grating			9.03	90.93
" " Floor Drain			10.73	88.73
chk. 414.8 P 18' + 13th			2.05	90.41 ✓
				90.42 = 874.001
9+32.05			10.26	89.20
15' Lt. on Rim M.			9.77	89.69
" " " Floor			17.10	82.36
9+57.4 = Int. Surface Drain			10.45	89.01
25' Rt. on Floor			12.99	86.47
55' Lt. " Grating			9.08	90.38
" " " Floor			10.70	88.76

"B" St. Motor Main

29.46 ✓

2+72.05 = E.L. 13th on Conc. Pav.	10.27	89.19
10+00 on Conc. Paving.	8.34	91.12
+50 " " "	4.13	95.33
T.P. 12.06 110.55	0.97	98.49
11+00 on Conc. Paving.	11.02	99.53
+50 " " "	6.70	103.85
+72.33 = W.L. 14th on Conc.	5.03	105.57
12+00 on Black Pav.	3.88	106.67
+125 on E. East Sewer	3.44	107.11 on Pav.
25' H. on Rim MH	4.19	106.36
" " " Flow " Note: Flow line inaccessible		
12+38.3 E. Gut line MH	3.03	107.52
+52.33 E.L. 14th on Conc.	2.60	107.95
13+00 on Conc. Paving.	0.48	110.07
T.P. 4.74 114.28	0.31	110.24
+50 on Conc. Paving	2.60	112.38
14+00 " " "	0.51	119.97
+25 " " "	0.06	119.92
+50 " " "	0.28	119.70
+75 " " "	1.45	113.53
15+00 " " "	4.02	110.96
+50 " " "	9.33	105.65
T.P. 0.12 102.19	12.01	102.07
16+00 on Conc.	1.83	100.36
+40 " " "	6.01	96.18

12

102.19 ✓

16+52.83 = W.L. 15th St.	7.04	95.15
+66.83 W.L. Line 15th	7.61	94.58
16+92.83 = E.L. 15th	8.29	93.90
25' H. on Rim MH	8.06	94.13
" " " Flow "		
17+00	8.45	93.72
+18.83	9.00	93.19
+32.83 = E.L. 15th	9.51	92.69 on Pav.
+50 on Conc. Paving.	11.25	90.92
T.P. 0.28 89.87	12.60	89.59
18+00 on Conc.	4.51	85.36
+50 " " "	10.14	79.73
T.P. 0.45 78.08	12.24	77.63
19+00 on Conc.	3.91	72.17
+33 = W.L. 16th	7.38	70.70
+36.8	7.59	70.29
7.3' H. on Rim Cleanout	7.02	71.06 Jam Drain
" " " Flow "	12.02	66.06
19+47 = on Black Pav.	7.55	70.53
+73 = E.L. 16th	6.02	72.06
25' H. on Rim MH	7.08	71.00
" " " Flow " (inaccessible)		
20+00	5.54	72.54
+13 = E.L. 16th	5.63	72.95
+50	5.78	72.30

		78.08		
TR	365	74.89	6.84	71.24
214.00			3.11	71.78
+50			3.68	71.21
224.00			4.25	70.62
+113.36 = W.G. 17 th			4.38	70.51
+27.36 = W.G. 17 th			4.59	70.30
+53.36 = L. 17 th			4.24	70.65
25' Rt. Riser MH			5.10	69.79
" " on Flow ✓			11.21	63.68
+79.36 = F. End 17 th			4.62	70.27
+93.36 = F.L. 17 th			4.56	70.33
234.00			4.71	70.18
+50			5.66	69.23
244.00			6.72	68.17
+50			7.71	67.18
2493.8 [±] = W.L. 18 th			8.59	66.30
25407.8 = W.G. " Asphalt Pav.			8.74	66.15
25433.8 = L. 18 th			8.14	66.75
159.8 = F. End			8.78	66.11
+73.8 = E.L. 18 th			8.74	66.15
CHK N.W. BR.			6.79	68.10 ✓ 18 th 8' B.C. St.
			68.07 = RM	
			0.03 diff.	
TR	2.20	67.84	9.25	65.64
261.00			2.04	65.82

26450 Conc. Pav.	312	69.72
27400 " "	410	63.72
+50 = Δ L + 27000	526	62.58
+74.49 = W.L. 19 th St	587	61.97
27 + 57.58 } = Δ RT 22030 = 27 + 88.56	553	62.31
28 + 14.49 = " "	544	62.90
+36.6	580	62.02
73' Rt. = Trunk Saver MH	584	62.00
" " on Flow		
28450 on Conc. Pav. 19 th	581	62.03
29400 " " "	472	63.12
+50 " " "	348	64.36
30400 " " "	213	65.71
+55.54 = W.L. 20 th	068	67.16
TR 8.23 75.76 ✓	031	67.53
30466.8	825	67.51
66' Rt. on Riser Trunk Saver	822	67.54
" " " Flow " "	16.74	59.02
30 + 95.54 = L. 20 th	729	68.97
10' Lt. on Riser MH	745	68.31
" " " Flow "		61.96 = F.L. 1619 - 2.24
31421.54 = F.C.B. Lining 20 th	678	68.98
CHK. S.E. BR. " 20 th St	552	70.24 ✓ = 18.17 70.23
31435.84 = E.L. 20 th	587	69.89 on Path
+50 on Conc. Paving	312	72.69
TR 12.00 87.4 ✓	035	75.41 ✓

87.41 ✓ ~ "8" St. Water Main -

32+00	on Conc. Pav.	✓	2.55	84.86
T.P.	11.80	98.77	0.44	86.57
32+50	on Conc. Pav.	✓	1.82	96.95
T.P.	12.92	111.51	0.18	98.59
33+00		✓	2.56	108.95
T.P.	12.96	124.31	0.16	111.35
33+31 - 8th			8.10	116.21
+35.08 = W.L. 21st			7.51	116.90
+41 - 8th			6.94	117.37
+75.08 = L 21st			5.92	118.39
2.5' St. on River M.H.			6.05	118.26
" " " Flow "			3.67 9.72	119.59
34+01.07 = E cb line 21st			5.81	119.30
34+15.08 = E.L. 21st			4.23	120.08
34+50		✓	0.28	124.03
T.P.	12.82	136.90	0.23	124.03
35+00			6.49	130.91
+50		✓	0.13	136.77
T.P.	12.49	149.22	0.17	136.73
36+00			6.21	143.01
+14.77 = Int. W.L. 22nd St.			4.56	142.66
+59.77 = L 22nd			3.72	145.50
chk. S.W. 8.P. "8" St. = 22nd			3.86	145.36 ✓
			145.42 = B.M.	
			0.06 = diff	
36+94.77 = E.L. 22nd			2.93	146.29
37+00			2.54	146.68

149.22

14

37+50		✓	0.00	149.22
T.P.	12.13	160.98	0.37	148.85
37+50			10.11	150.87
38+00			5.70	155.28
+50		✓	1.40	159.58
T.P.	11.14	171.92	0.20	160.78
38+95.61 = W.L. 23rd St.			8.51	163.91
39+05.61			8.18	163.79
+20.61 = L			7.75	169.17
36° Rt. on River M.H.			7.70	162.22
756 Rt. " Flow "			5.10 13.10	158.82
39+35.61 = E 6'			7.40	169.52
+45.61 = E.L. 23rd			6.88	165.09
+50 on Paving			6.61	165.31
chk. S.E. 8.P. "8" St. & 23rd			7.06	164.86 ✓
			164.87	0.01 diff
40+00		✓	1.77	170.15
T.P.	12.31	184.04	0.19	171.73
+50			8.94	175.10
40+95.81 = A Rt 22° 30'			4.55	179.99
41+08.88 = Equations			4.29	179.75
= 41+07.88 = A Lt 22° 30'			3.88	180.16
41+25.81 = L 24th			3.63	180.91
15' Lt. on N.H. River			3.60	180.99
" " Flow M.H.			3.21	180.83
41+45.8 = E cb 24th			3.21	180.83
45.81 = E.L. 24th				

"B" St. Water Main

184.04

chk. NW BR - "B" St - 24th	4.30	179.74	✓
		179.88 = Record	
		0.14	
42+00	0.54	183.50	
T.P. 12.97	196.84	0.17	183.87
+50	10.11	186.73	
43+00	6.94	189.90	
+50	3.81	193.03	
44+00	0.56	196.28	
T.P. 543	202.22	0.05	196.79
+20	4.73	197.49	
+35	4.11	198.11	
+50	4.07	198.15	
45+00	4.45	197.77	
+50	4.76	197.86	
46+00	5.11	197.11	
+50	5.42	196.80	
47+00	5.77	196.95	
+50	6.27	195.95	
47+56.94 = W.L. 25th	6.37	195.85	
+76.94 = W.C. 25th	6.90	195.32	✓
T.P. 4.90	200.82	6.30	195.93
			SW 74uck 25th + "B"
47+79.87 = $\frac{1}{2}$ Δ 22°30	5.35	195.47	
+92.94 = Rt. 22°30	4.80	196.02	
48+17.94 = Int. Existing Main	4.35	196.97	
48+20.11 = on W Dble Track	4.37	196.95	

200.82

chk. SW BR 25th + "C" St	9.94	190.88	✓
		190.96 = B.M.	
		0.08	
48+76.94	10.14	on Rim M.H.	4.45
		" " " Flow	10.81
			196.37
			190.01

Notes Reduced - 8.5.02

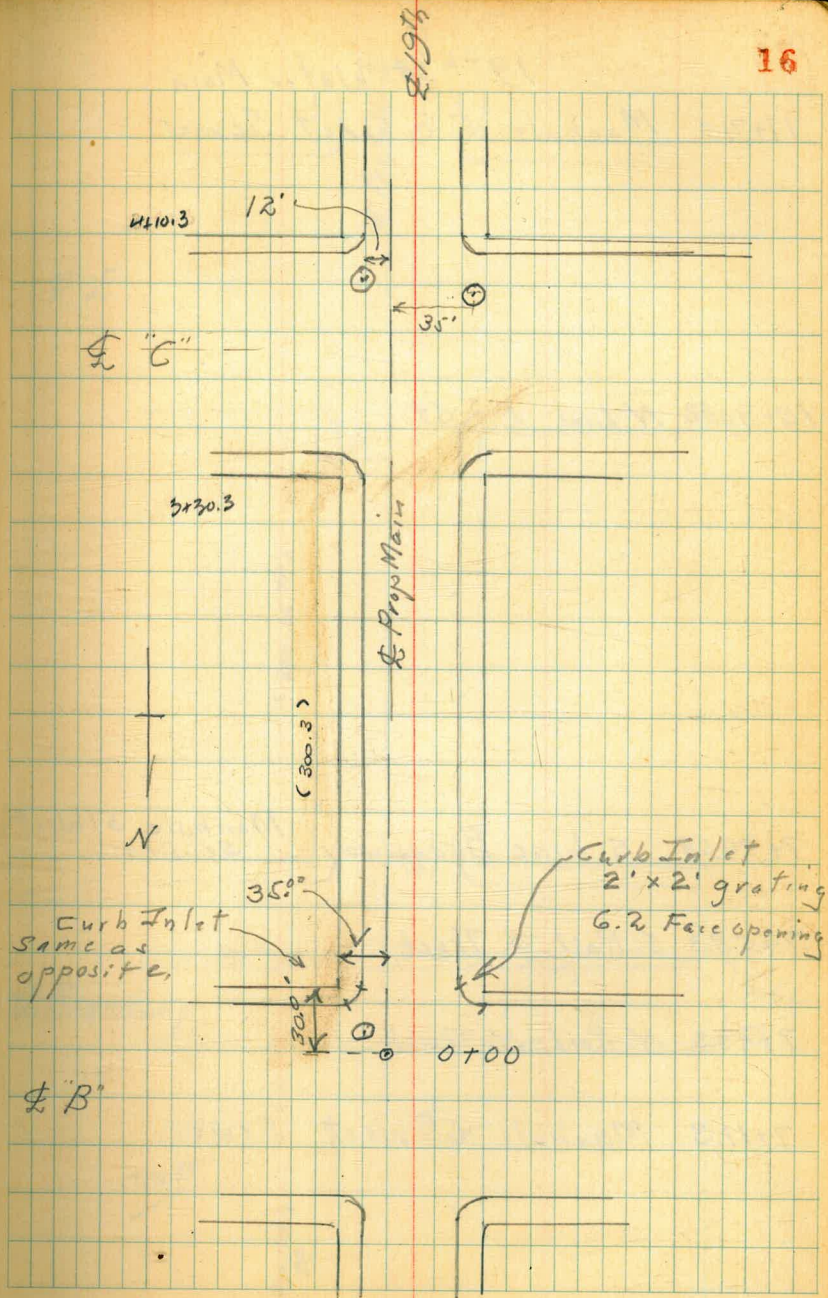
Hazard
Hardin
Begg
9-11-44

Location Proposed
16" Water Main on 19th St
from "B" to "L"

4+1030 S. line "C" ST.
3+90.3 Manhole 12' E Sewer
3+86 Manhole 35' W "

4+1030 S. line "C" ST.
0+07 Manhole 17' East Sewer

0+07 Manhole
0+00



19th St Water Main

11+71.2 Manhole 5.5 West Sewer

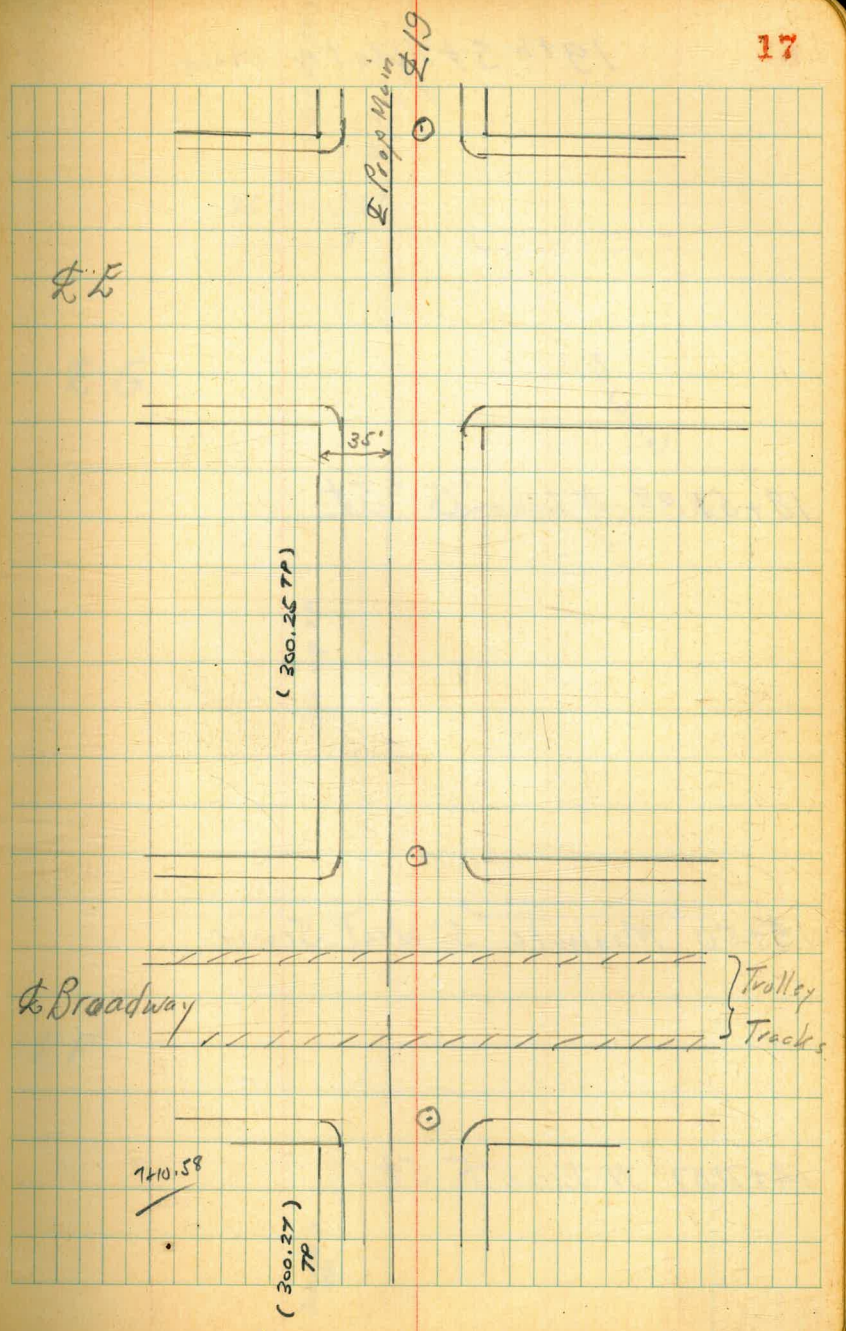
10+90.82 N Line "E" St

7+90.58 S. Line Broadway Manhole 5' West Sewer

7+58.3 S. Rail S. Track

7+43.3 N. Rail - N. Track

7+11.3 Manhole 6' West Sewer



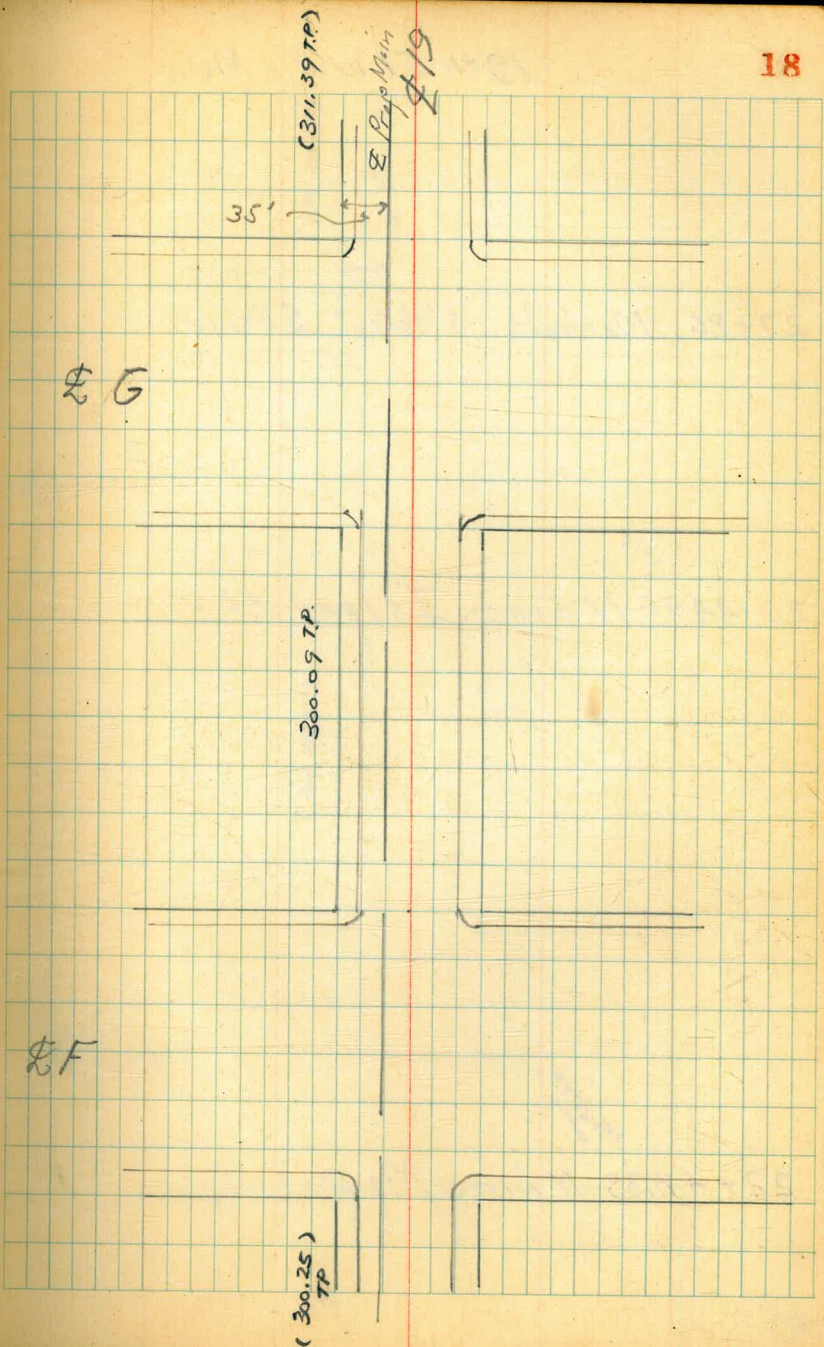
19th St Water Main

(371.16) TP

18+51.08 N line "G" St.

15+50 Manhole 5' West Sewer

14+71.07 N. line F St.



19th St Water Main

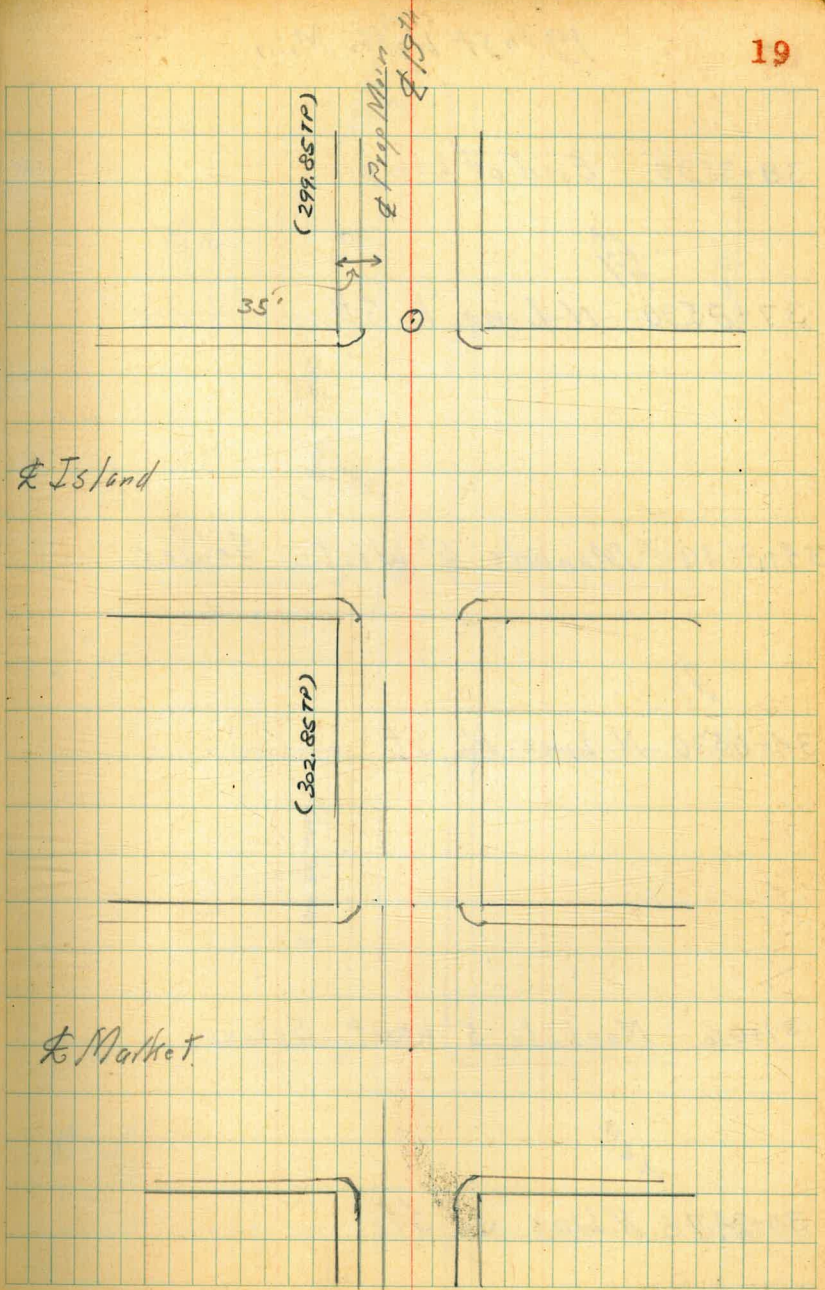
27+26 Manhole 5' West Sewer

205.4

26+44.95 N line Island St

142.17 TP

22+42.33 N line Market St



38+35.90 End of line

12.5' TP

37+85.90 N line "L" St

34+85.30 Manhole 5' West Sewer

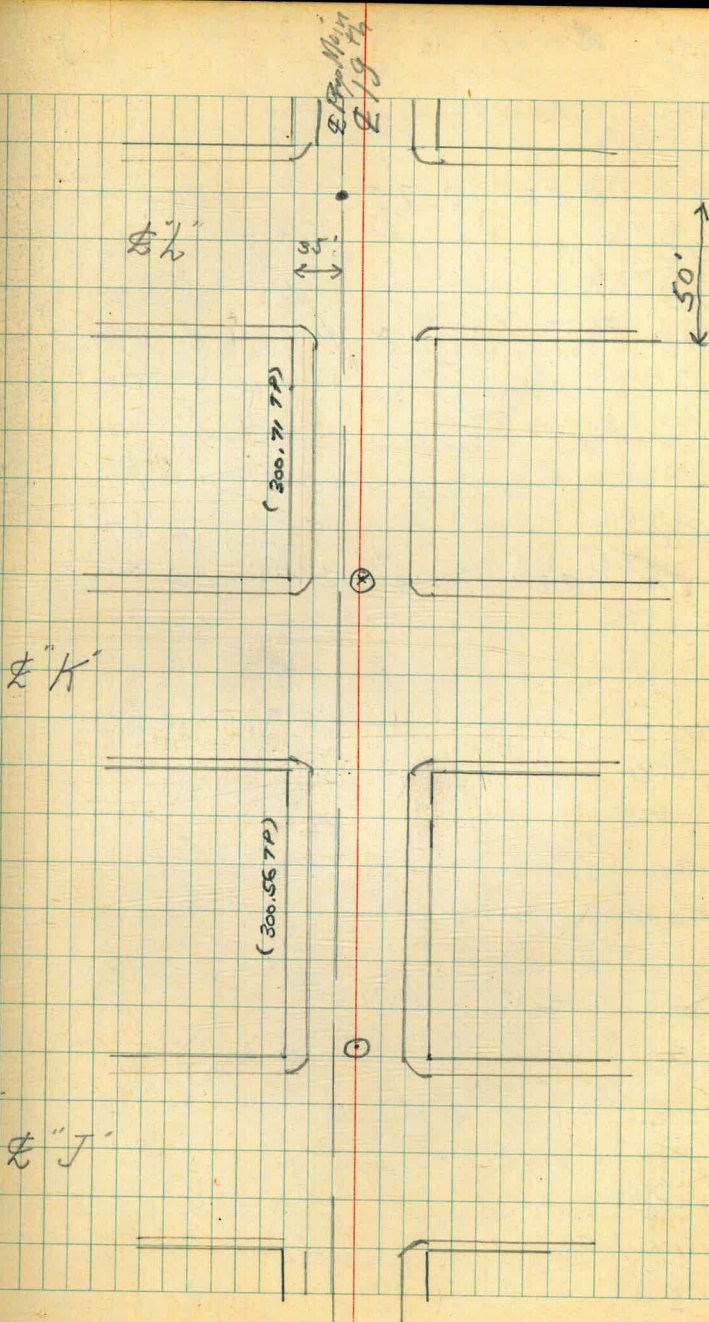
10.5' TP

34+05.30 N line "K" St

31+06 Manhole 5' West Sewer

12.5' TP

30+24.76 N line "J" St



9-12-44
 Howard
 Walker
 Begg

Locals - Proposed Water Main
 on 19th St from "B" to L
 Location p 16-20

B.M.	052	70.75	70.23
0+00		8.37	62.38
0+18		8.51	62.24
0+18	Storm Drain E Top of Grating	9.48	61.27
"	Flow line	11.16	59.59
"	Storm Drain W Top of Grating	9.48	60.27
"	Flow line	16.68	54.07
0+30		8.68	62.07
0+50	T.P. 82.1	70.47	8.49
1+00		7.56	62.91
+50		6.83	63.64
2		6.25	64.22
+50		5.39	65.08
3		4.67	65.80
+30	Prop. line	4.49	65.98
+44	Gutter	4.81	65.66
+70	4" C	4.52	65.95
+86	Rim Manhole W	} out of service	
+86			
+90	Rim Manhole E	4.38	66.09
+90	Flow line	16.36	54.11
+96	Gutter	4.60	65.87
4+10	Prop. line	4.22	66.25
+50		1.31	69.16

SE Cor
 20' x 5'
 Concrete Paving
 To S. Line B
 Black Paving from
 0+30 to end of line

70.47

21

TP 1222	82.46'	0.23	70.24
5+00		9.41	73.05
+50		5.52	76.94
6		1.47	80.99
TP 1230	94.63'	0.13	82.33
6+50		9.68	84.95
7		5.85	88.78
+106	Prop. line	5.29	89.34
+113	Rim Manhole	} Dead end	5.38
+113	Flow "		9.78
+246	Gutter	5.47	89.16
+43.3	Top Rail N. Rail N Track	4.83	89.80
+50.6	4" Broadway	4.87	89.76
+58.3	Top Rail S Rail S Track	4.89	89.74
+76	Gutter	5.57	89.06
+90.6	Prop. line	5.30	89.33
+90.6	Rim Manhole	} Dead End	5.30
+90.6	Flow line "		9.43
8+00		5.13	89.50
+50		5.47	89.16
9+00		6.01	88.62
+50	T.P.	6.53	88.10
10+00	3.06	90.57	7.12
+50		3.60	86.97
+90.8	Prop. line	4.34	86.23

19th St Water Main

90.57

11+048	Gutter	4.69	85.88
+308	E "E" St	4.12	86.45
+568	Gutter	4.74	85.83
+70.8	Prop line	4.44	86.13
+71.2	Manhole Rim } Dead	4.43	86.14
+71.2	" Flow } end	6.25	84.32
BM	SW cor E 8 19"	4.91	85.66 (85.78)?
12+00		4.81	85.76
+50		5.90	84.67
13		7.11	83.46
+50		8.25	82.32
14		9.39	81.18
	T.P.		
+50	251	82.52	10.56 80.01
+71	Prop line	3.25	79.27
+85	Gutter	3.40	79.12
15+11	E "F" St.	2.98	79.54
+37	Gutter	3.47	79.05
+50	Manhole Rim } 251	3.29	79.23
+50	" Flow }	4.90	77.62
+51	Prop line	3.23	79.29
16+00		3.17	79.35
+50		3.41	79.11
17		3.58	78.94
+00		3.82	78.70
18		4.03	78.49

22

18+51	Prop line	82.52	4.69	77.83
+65	Gutter		5.10	77.42
+91	E "G" St.		5.37	77.15
+17	Gutter		6.68	75.84
19+31	Prop		6.29	76.23
BM	NW cor "G" 8 19"		6.13	76.39 ✓
T.P.	1.16	77.61	6.07	76.45
19+50			1.81	75.80
20			3.01	74.60
+50			4.22	73.39
21			5.48	72.13
+50			6.62	70.99
22			7.89	69.77
+42	Prop		9.20	68.41
+56	Gutter		9.87	67.74
+92	E Market		9.46	68.15
+28	Gutter		11.33	66.28
23+42	Prop.		11.37	66.24
BM	NW cor Market 8 19"		10.29	67.32 ⁰¹
23+50			11.10	66.51
24	T.P.	7.01	74.01	10.61 67.00
24+50			6.73	67.28
25			6.56	67.45
+50			6.29	67.72
26			6.10	67.91

19th St Water Main

	T			
26+45 Prop line	74.01	6.04	67.97	
+59 Gutter		6.15	67.86	
+85 E Island		5.88	68.13	
+11 Gutter		6.17	67.94	
27+25 Prop line		5.88	68.13	
+26 Manhole Rim		5.93	68.08	Dead End
+26 " Flow		10.08	63.93	
BM SE Cor Island & 19th	5.11	68.90	(6887)	
27+50		5.73	68.28	
28		5.68	68.33	
+50		5.56	68.45	
29		5.55	68.46	
+50 T.P. 290	71.44	5.47	68.54	
30		2.80	68.64	
+247 Prop		2.98	68.46	
+387 Gutter		3.13	68.31	
+687 E "J" St.		2.97	68.47	
+907 Gutter		3.13	68.31	
31+04.7 Prop		2.99	68.45	
+06 Manhole Rim		3.14	68.30	Dead End
+06 " Flow		4.08	67.36	
BM. NE Cor J & 19th	2.03	69.41	(6940)	
+50		3.14	68.30	
32		3.60	67.84	
+50		4.03	67.41	

	T			
33+00	71.44	4.45	66.99	
+50		4.82	66.62	
34+05.3 Prop		5.53	65.91	
+19 Gutter		5.81	65.63	
+45.3 E "K"		5.35	66.09	
+71 Gutter		5.30	66.14	
+85.3 Prop		5.29	66.15	
+85 Manhole Rim		5.37	66.07	Dead End
+85 " Flow		6.72	64.72	
T.P. 104	67.11	5.37	66.07	
35+00		1.18	65.93	
+50		1.82	65.29	
36		2.97	64.64	
+50		3.16	63.95	
37		3.84	63.27	
+50		4.48	62.63	
+85.9 Prop		5.18	61.93	
38+00 Gutter		5.53	61.58	
+25.9 E "L"		5.40	61.71	
+35.9 End of line		5.67	61.44	
BM NE Cor L & 19th		4.13	62.98	Notes checked 9-15-00
			62.95	
			03 dif	

C.S.M.
C.S.
W.M.

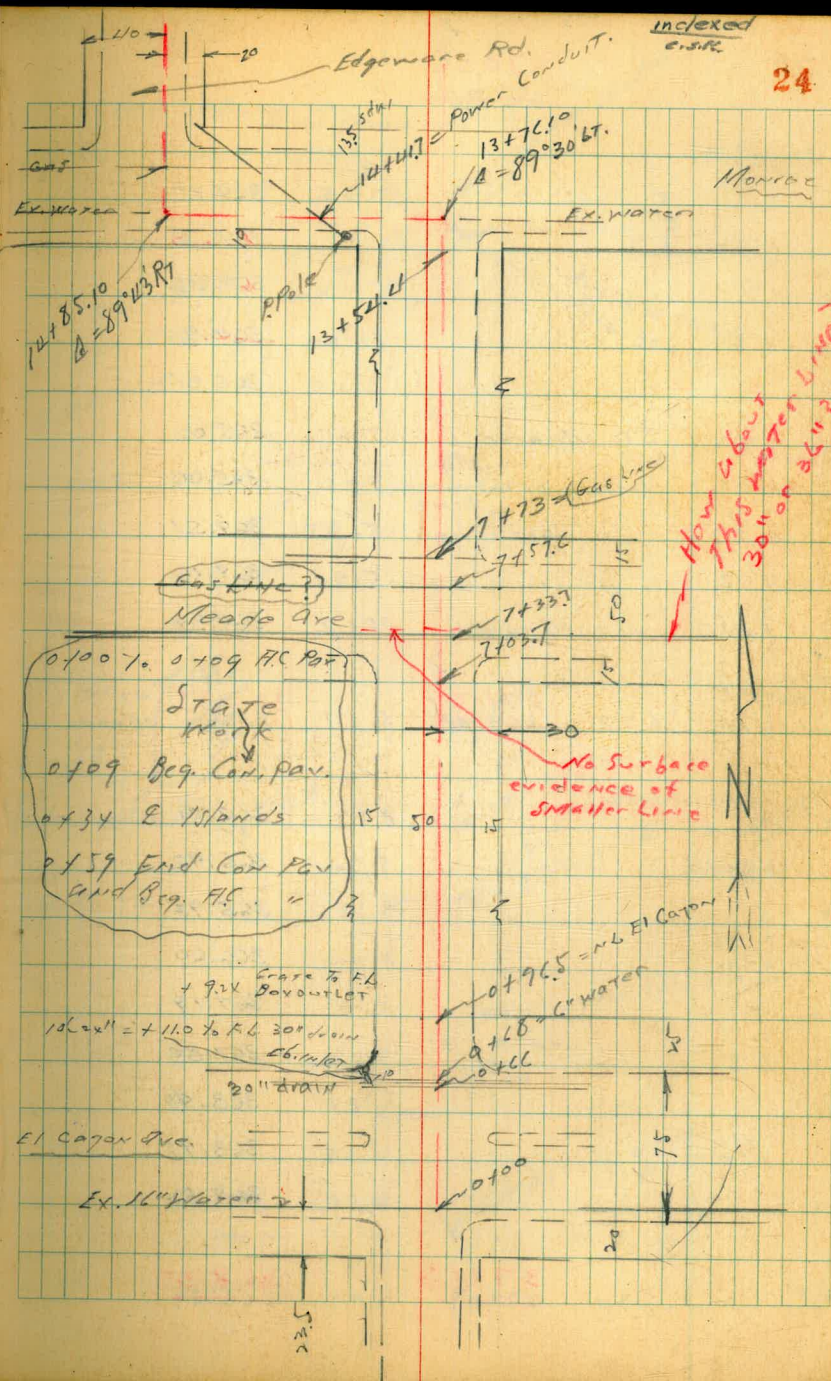
10-3-44. Flight of levels for 16" water
line, on 4th and ST, Edgeware Rd.
El Cazon Ave to Aldanos Ave.

Sec P. 27

S.W.C.P. 5.21 369.61
368.17 364.40 4th and
367.9 El Cazon

0+00 at El Cazon	5.86	363.75	
+09	5.59	369.02	
+24	5.39	364.22	
+59	5.74	363.87	
+66	5.98	363.63	pav.
" Top of C6 in 10 ⁹ grate	5.90	363.71	
" F.L. of Box + pipe ^{24"}	15.14	359.47	
" " " 30" pipe Junc. ^{at}	16.90	352.71	24" to 30"
+76	6.00	363.61	
0+96.5 N.L. El Cazon	5.56	369.05	
+50	5.20	369.35	
2	5.21	369.40	
+50	5.28	369.33	
3	5.15	369.46	
+50	5.14	369.49	
4	5.05	369.56	
+50	4.98	369.63	

T.P. 5.58 370.06
368.64 5.13 364.48
363.04



370.06

~~368.64~~

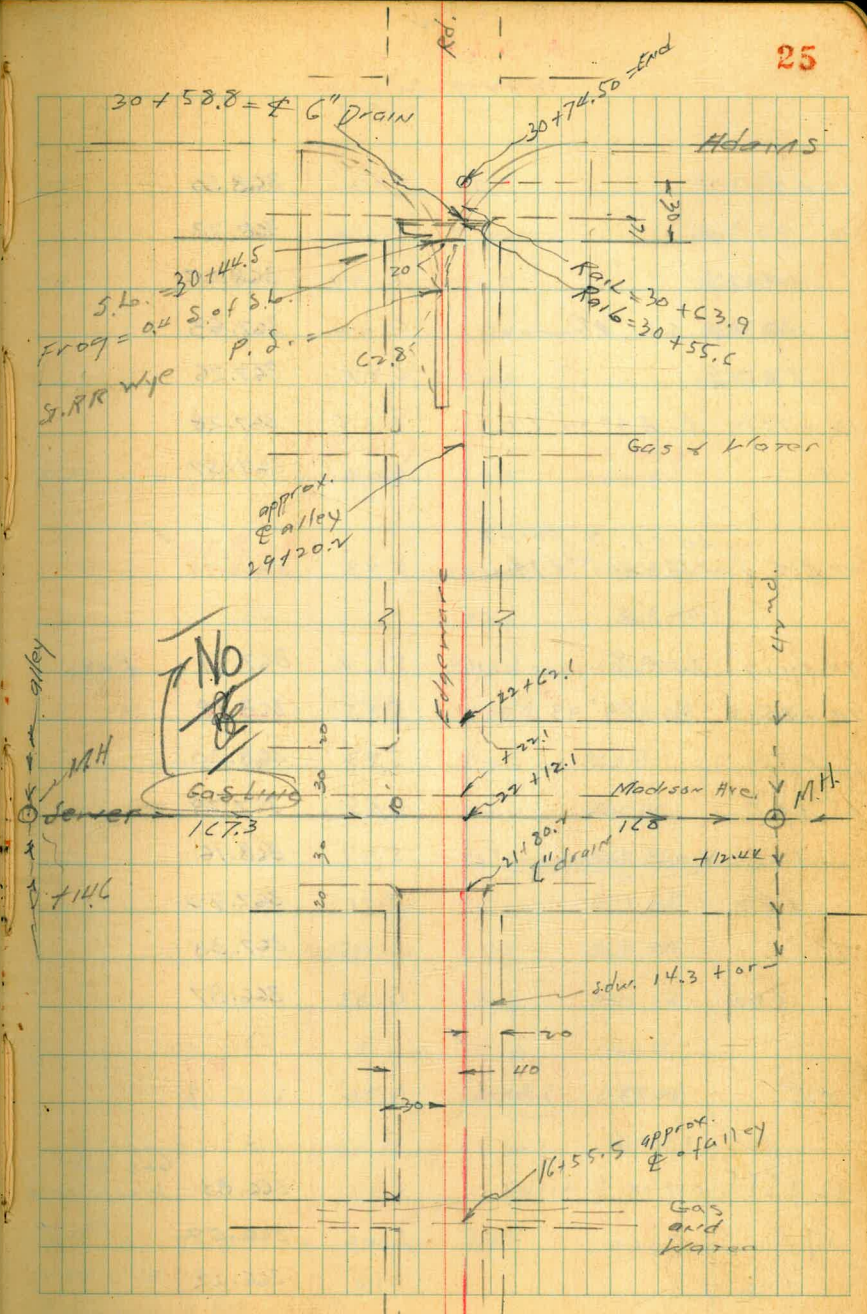
5		5.35	369.71	
+ 50		5.31	369.75	
6		5.26	369.82	
+ 50		5.16	369.90	
7		5.09	365.01	
+ 03.7	SL Meado	5.06	365.00	
+ 23.7	Intersect ^{Big} Water Line	5.06	365.00	PAV.
+ 57.6	" gas Line	5.55	369.51	"
+ 73	" " "	5.90	369.16	"
+ 83.7	N.R. Meado	5.67	369.39	
T.P.				
FD. S.M.B.P.				
N.W. curb	6.77	369.88	369.88	42nd & Meado
		5.51	369.88	
8		6.53	369.79	
+ 50		5.90	365.92	
9		5.35	365.97	
+ 50		4.72	366.60	
10		4.17	367.19	
+ 50		3.48	367.84	
11		2.83	368.49	
+ 50		2.35	368.97	
12		2.50	368.82	
T.P.	5.30	373.63	373.63	
		7.99	366.89	

373.63

~~373.63~~

368.33

~~366.89~~



373.63 ✓

~~374.19~~

12 + 50		5.13	368.50	
13		5.40	368.23	
140		5.59	368.02	
+ 54.4	S. h. Monroe	6.00	367.63	
+ 65		6.37	367.26	
13 + 76.10	Δ 89° 30' LT.	6.35	367.28	
14		6.06	367.57	
	on Ld C.T. 7' POINT			
Set B.M. SW Pct.	49' 1/4 Monroe	5.43	368.20 ✓ 366.76	
14 + 41.7	Int. Power Cond.	5.64	367.99	Pay
14 + 85.10	Δ 89° 43' RT	5.45	368.18	
+ 97		5.43	368.20	
15 + 0.8		5.85	367.78	
+ 71	Via Edgeware Rd	5.47	368.16	
+ 50		5.71	367.92	
16		6.25	367.38	
+ 50		6.74	366.87	
T.P.	4.73	6.76	368.87 ✓ 365.43	
16 + 55.5	approx. & alley	4.77	366.83	Gas and Water hose
17		5.06	366.52	
+ 50		5.38	366.22	

371.60 ✓

~~370.16~~

371.60 ✓

~~370.16~~

26

18		5.67	365.93	
150		5.92	365.68	
19		6.28	365.32	
+ 50		6.74	362.86	
20		7.19	362.21	
T.P.	4.72	7.25	368.57 ✓ 367.13	364.35 ✓ 362.91
+ 50		4.66	363.91	
21		5.09	363.98	
+ 50		5.54	363.03	
+ 80.2	Int. 6" drain	5.49	363.08	on pay.
" 28.7	LT. F.I. inlet	6.26	362.31	inlet 6" drain
" 8.4	RT " outlet	6.82	361.75	" "
22		5.21	363.36	
+ 12.10	& Madison	5.22	363.35	Pay
" 167.3	W. MH Pmt	3.83	362.74	
" " " " F.I.		18.43	350.14	
" 160	E " Pmt	7.10	361.47	
" " " " F.I.		19.54	349.03	
+ 22.1	Int. gas line	5.30	363.27	Pay
T.P. on	5.27	5.46	368.38 ✓ 366.94	363.11 ✓ 361.67
N.W. L'd. C.T.				
Edgeware Rd.				
and Madison				

368.38 ✓

~~366.94~~

22 + 62.1	N.L. Madison	5.86	362.52
23		6.18	362.20
+ 50		6.44	361.99
24		6.65	361.73
+ 50		6.91	361.97
25		7.18	361.20
+ 50		7.41	360.97
26		7.64	360.79
+ 50		7.90	360.98
27		8.16	360.22
T.P.	11.56	363.48	358.94
			364.94 ✓
+ 50		4.89	360.03
28		5.16	359.76
+ 50		5.40	359.52
29		5.65	359.27
+ 20.2	approx E alley	5.78	359.19
+ 50		5.90	359.02
30		6.07	358.85
+ 44.5	S.L. Adams	6.08	358.89
+ 55.6	Top rail	5.76	359.16

364.94 ✓

~~363.48~~

27

30 + 58.8	E. C. draw	5.78	359.19
"	S.L. R. F. 6. "	7.64	357.28
"	28.5 L. " "	6.55	358.37 inlet
30 + 63.9	Top rail	5.88	359.09
30 + 74.50	end	5.85	359.07
check to	Adams		358.57 + 0.07
BM. S.E. C.C.T. Edgware Rd.		6.35	357.13 358.50
			- 1.37
T.P.	3.18	361.75	358.57
		6.35	357.13
check to S.E. C.C.T. Adams	Blanca	4.25	357.50 + 0.06
			356.02 357.44
			- 1.38
SWBP	4.48	369.64 ✓	365.14 El Cagon
check to BM BP	42nd and El Cagon	5.24	364.40 364.40
			diff. 1.14

Please use THIS
and make correction
in office bench book

Starting B.M. for levels
this is N.G. thru
St. name changing

also please check
to Profile of El Cagon Ave.

Walker
Hurler
Boffs
11-2-44

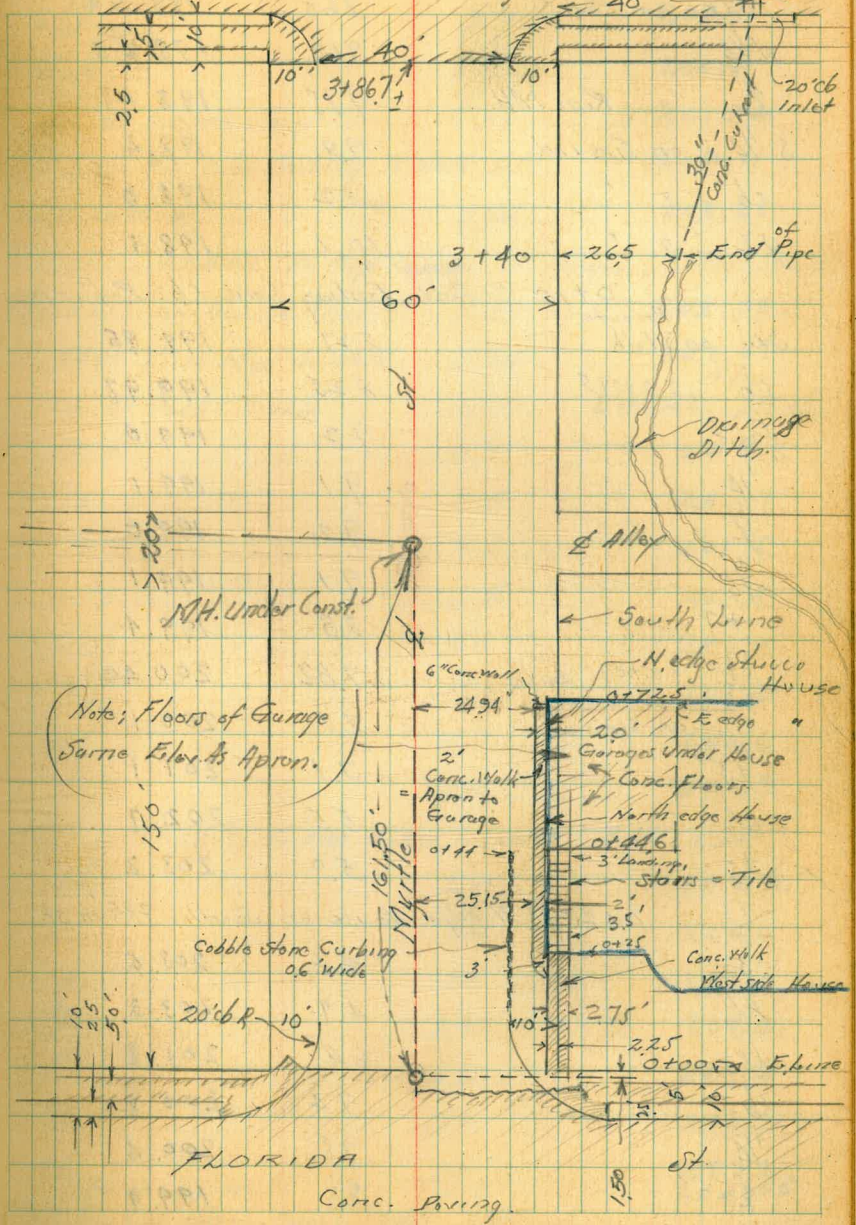
CROSS SECTION MYRTLE ST. 60' wide
from Florida St 10' cbs
to Alabama St 10' cbs

SE Top Hyd.
Myrtle Florida 7.92 208.22 280.30
BT #60
FB 11.14-17

0-10 = E. cb line Florida		
- 10 on cut of pc. 20' cb Ret	9.89	198.33
- 10 " cb " " "	9.25	198.97
N.L. on Pav.	10.09	198.13
cb.	10.23	197.99
1/4	10.39	197.83
1/2	10.49	197.73
5/14	10.69	197.53
cb.	10.83	197.39
S	10.98	197.24
+ 10 on cut pc. 20' cb R	11.19	197.03
" " cb " " "	10.31	197.91
8 0-45		
S	9.94	198.26
+ 3' on cb Ret.	9.87	198.35
" " cut of cb Ret.	10.59	197.63
cb.	10.47	197.75
1/4	10.34	197.88
1/2	10.19	198.03
E.L. Florida = 0+00		
N.L. -16	8.57	199.65
N.L.	8.92	199.30
+ 7 on cb Ret.	8.92	199.30
" " cut of cb Ret.	9.68	198.54

Reduced
Plotted on
Profile # 1812

ALABAMA
Asphalt Paving.
INDEXED
E.S.K.
ST. 28



0100 Cont.

N cb. on Pav.	7.68	198.54
1/4	9.69	198.53
L " Rm. MH.	9.75	198.47
S 1/4 on Ground	9.8	198.4
cb " "	10.2	198.0
5/16 " "	10.1	198.1
	0110 - Land	Approx Existing Conc. cb. Returns
Skr on Walk	8.27	199.95
cb. = 0109.5	8.25	199.97
Gut.	9.2	199.0
1/4	9.1	199.1
L	9.2	199.0
1/4	9.1	199.1
+7	8.8	199.4
cb. = 0109 on cb.	7.82	200.40
" on Ground	8.1	200.1
+5'	7.1	201.1
N	5.5	202.7
+5	5.0	203.2
	0125 = W. edge House on South	285' in st.
-5	4.6	203.6
N	4.9	203.3
+5	6.4	201.8
cb.	7.4	200.8
1/4	7.8	200.4
L	8.3	199.9

5/16	7.9	200.3
Gut.	7.8	200.4
cb. on Cobble Stone cb.	6.28	201.94
+5.15 = N edge Existing 2' Walk	6.11	202.11
5/16 on Walk	5.94	202.28
	0144.6 = W edge Garage on South	285' in st.
S + 2.85' on Garage Floor	5.50	202.72
14.85 " N edge 2' Walk	5.54	202.68
cb. on Cobble curb.	5.60	202.62 = Excl Cobble cb.
Gut.	6.0	202.2
1/4	6.5	201.7
L	6.7	201.5
N 1/4	6.4	201.8
N cb.	5.8	202.4
+5	5.0	203.2
N	4.2	204.0
+10	4.0	204.2
	0170.2 = E edge Garage on South	3.06' in st.
-10	2.0	206.2
N	2.2	206.0
cb.	3.2	205.0
1/4	3.8	204.4
L	4.6	203.6
N	5.0	203.2
cb.	5.0	203.2
+5 = on Conc. Wall	4.16	204.06
+5 = N edge Conc. Walk	5.59	?
+17 = S " " "	5.57	202.65 = Garage floor

20822

0+80

SL-5	2.3	205.9
S.L.	1.9	206.3
cb.	2.6	205.6
1/4	2.7	205.5
2	2.6	205.6
1/4	2.5	205.7
cb.	2.0	206.2
N	1.2	207.0
+10	1.2	207.0

T.P. 11.78 212.57 0.43 207.79

0+72 to 0+91 = Lath Fence on S 1.7 in st.

1+00

Note. Unfinished sections on North are covered
by Stack Pile of dirt from ^{Trunk} Sewer under Const.
in Alley. Assume Natural Ground to be approx.
same as 2 or N 1/4

N 1/4	10.3	209.3
2	10.3	209.3
S 1/4	10.8	208.8
cb.	10.5	209.1
S.L.	10.8	208.8
+10	10.8	208.8

1+25

-10	7.1	212.5
SL.	6.7	212.9

21957

30

cb.	6.9	212.7
S 1/4	7.0	212.6
2	6.9	212.7
N 1/4	6.9	212.7
1+40		
N 1/4	6.0	213.6
2	6.0	213.6
S 1/4	5.4	214.2
+7	5.2	214.4
cb.	4.2	215.4
S.L.	4.6	215.0
+10	5.4	214.2

1+48 = 2 Elec. Poles on South 0.5' Back

-10	4.9	214.7
SL.	3.7	215.9
cb.	4.1	215.5
+3	5.1	214.5
1/4	5.4	214.2
2	5.5	214.1
N 1/4	5.7	213.9
cb.	5.3	214.3
N	5.6	214.0
+50	5.6	214.0

1+66

-50	5.6	214.0
N	5.0	214.6

219.57

cb.		4.8	214.8
N ¹ / ₄		4.6	215.0
L		4.3	215.3
S ¹ / ₄		4.4	215.2
cb.		3.8	215.8
S		3.6	216.0
+10		3.2	216.4
	1470		
-10		3.2	216.4
S		3.2	216.4
cb.		3.3	216.3
¹ / ₄		3.7	215.9
+5		3.0	216.6
TP	12.21	231.36	042 219.15
L		12.4	219.0
+4		8.3	223.1
N ¹ / ₄		7.8	223.6
cb.		6.1	225.3
N		5.1	226.3
+10		4.5	226.9
	2700		
-10		+4.7	236.1
N		+4.3	235.7
cb.		+3.0	234.4
N ¹ / ₄		-1.8	229.6
φ		4.7	226.7

231.36

31

L+4'		6.2	225.2
S ¹ / ₄		6.7	224.7
Sub.		6.0	225.4
+6		6.0	225.4
S ¹ / ₄		8.5	222.9
+17	Toe News Fill	20.5	210.9 ^{N edge} Wash
+30	S edge Wash.	19.8	212.1
	2125		
-38		15.6	215.8
-38	S edge ^{Bark} Wash.	16.5	214.9
-30	" " Wash.	18.7	212.7
-23	N " "	18.7	212.7
-20		16.9	214.5
-10		13.5	217.9
S		6.8	224.6
+7		1.9	229.5
cb.		1.3	230.1
¹ / ₄		1.1	230.3
L		0.8	230.6
TP	10.04	241.25	0.15 231.21
¹ / ₄		8.0	233.3
cb.		4.5	236.8
N		2.1	239.2
+10		1.7	239.6
	2750		
N		+1.3	242.6

N		+0.9	242.2
cb.		1.4	239.9
1/4		5.5	235.8
+5		6.7	234.6
2		6.9	234.4
5 1/4		7.0	234.3
cb.		8.3	233.0
+2		8.3	233.0
5		13.0	228.3
+12		20.6	220.7
+16		20.6	220.7
+26	N edge Wash. (4' wide)	27.4	213.9
+40		24.2	217.1
	3+75		
-50		20.2	221.1
-40		22.5	218.8
-30	on Bank	22.7	218.6
-30	" Wash. (4' wide)	29.2	217.1
-25		23.5	217.8
5 1/4		10.8	230.5
cb.		5.1	236.2
1/4		3.7	237.6
2		3.3	238.0
N 1/4		2.6	238.7
cb.		0.0	241.3
N		+2.6	243.9
+10		+5.3	246.6

3+00

-10		+8.5	249.8
N		+7.6	248.9
+3		+7.3	248.6
+7		+4.0	245.3
cb.		+2.8	244.1
N 1/4		+0.3	241.6
2		0.3	241.0
4 1/4		0.8	240.5
cb.		2.2	239.1
5 1/4		8.3	233.0
+11		15.5	225.8
+28		21.3	220.0
+29	N edge Wash	23.7	217.6
+42	S " "	22.3	219.0
+43	S Bank	20.4	220.9
+50		19.2	222.1
	3+20		
-48		17.1	224.2
-38	S edge Wash	18.7	222.6
-35	" "	19.7	221.6
-23	N " "	18.7	222.6
-13		13.3	228.0
S		7.1	234.2
cb.		0.5	240.8
T.P.	81.3	249.35	0.03 241.22

5 1/4		6.7	242.7
4		6.2	243.2
N 1/2		5.1	244.3
Ncb.		+0.2	249.6
+5		+1.8	251.2
N	Lower in yard	+2.0	251.4
+10	" "	+2.0	251.4
N	3+45		
-0.4 at House		+2.8	252.2
cb.		+2.3	251.7
N 1/2		+1.5	250.9
+8		0.0	249.4
L		1.3	248.1
+3		3.6	245.8
1/4		4.3	245.1
+7		5.3	244.1
cb		8.0	241.4
5		14.1	235.3
+8		19.3	230.1
+25		22.4	227.0
+26.5 on Top	30" Corc. Pipe	21.7	227.7
" " Floor	5' West	25.1	224.2
			3+40 End 30" Pipe
-25		20.0	229.4
-12		16.7	232.7

SL.		10.9	238.5
+2		10.3	239.1
cb		6.1	243.3
+3		3.7	245.7
+8		2.3	247.1
TP	7.78	255.79	1.34 248.01
1/4		8.3	247.5
+5		4.8	251.0
L		4.8	251.0
N 1/4		4.8	251.0
cb.		4.5	251.3
N		3.8	252.0
	3+75		
N		4.0	251.8
cb.		4.4	251.4
1/4		4.6	251.2
L		4.8	251.0
1/4		4.9	250.9
cb.		5.0	250.8
5		7.4	247.4
+2		9.1	246.7
+10		13.6	242.2
+25		13.6	242.2
	3+87.16 3+86.74		= W.L. ALBERTA ST
5 on walk		4.67	251.12
cb. on cb.		4.89	250.90

W.L. Cont.

255.79

Gut. on Pav.	5.31	250.48
1/4 " "	5.03	250.76
2 " "	4.92	250.87
1 1/4 " "	4.90	250.89
N Gut, " "	5.00	250.79
cb.	4.43	251.36
N on walk	4.30	251.49
chk. N.W. S.P. Myrtle & Alabama	4.39	251.40
		251.50
		0.10 diff.

W. cb. Alabama

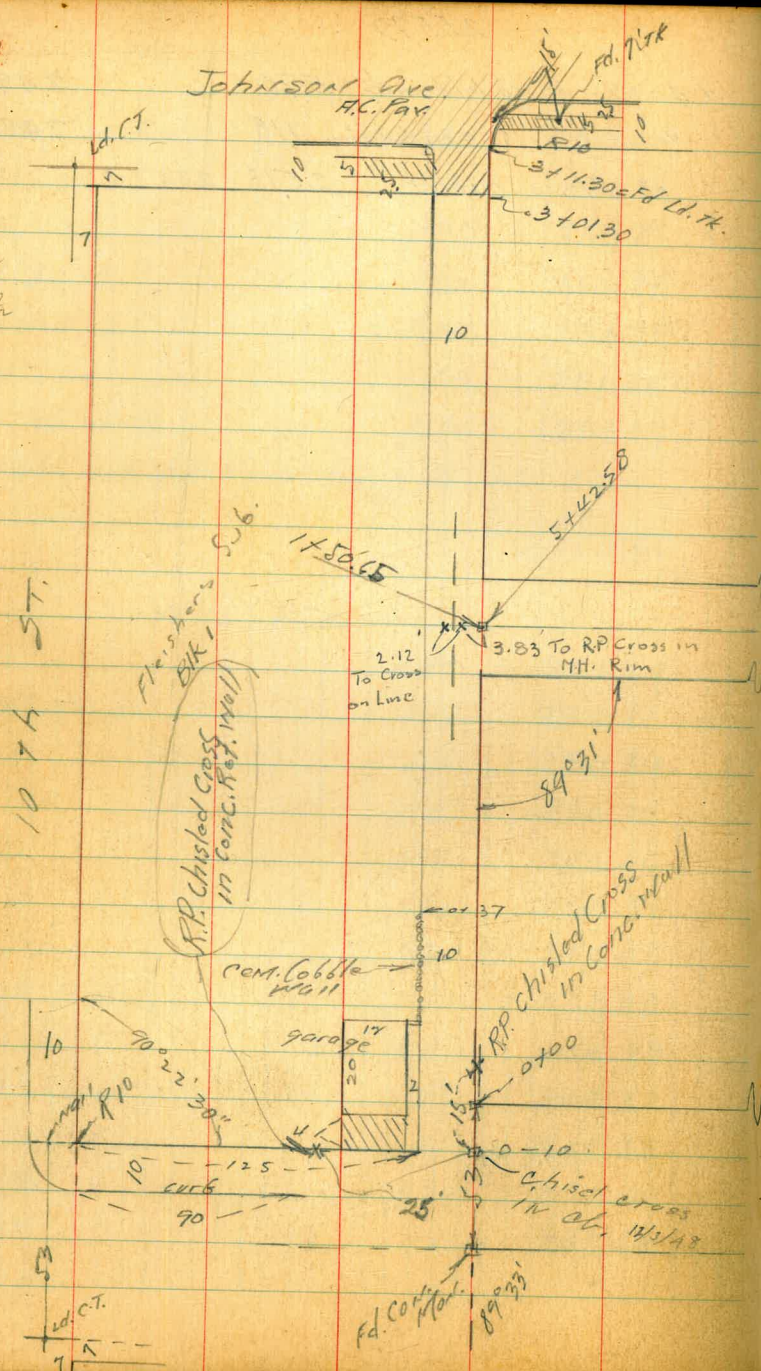
N	4.40	251.39
G. N Gut.	4.98	250.81
cb.	4.99	250.80
1/4	5.07	250.72
2	5.13	250.66
1/4	5.21	250.58
cb.	5.30	250.49
S.L. Gut	5.41	250.38
st. cb.	4.87	250.92
+21 on cb.	5.97	249.82
" " Gut	6.97	249.32
+30' N end inlet on cb.	5.78	250.01
" " " " Gut	7.10	248.69

255.79

34

+40 = 2. 20' cb inlet on cb	5.96	249.83
" " " " " on Existing	7.18	248.61
on Flow/ outlet	25.18	230.61

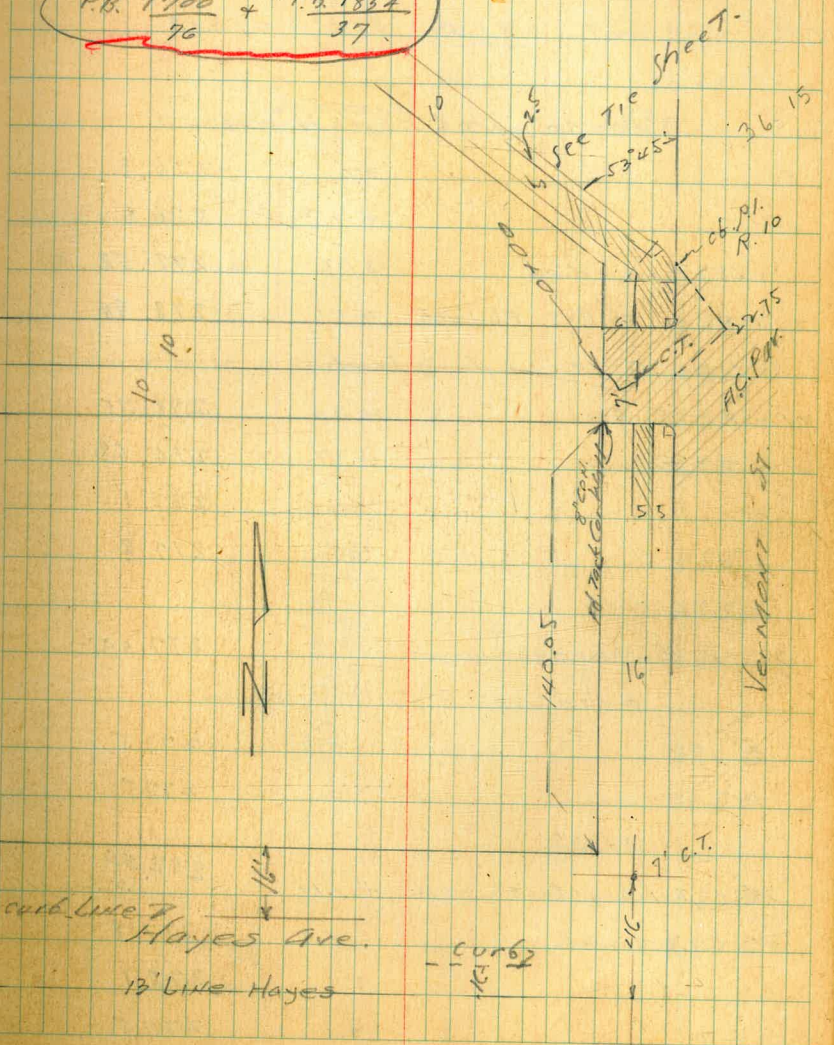
595
383
212



C. Moore
S. H. M. Co.
W. F. M.
11-20-44. X sec alley Blk 136 U.H.

To establish Grade.

F.B. 1700
96 + F.B. 1854
37



Levels on N & S 10' alley

Fleishers add.

NWBP	4.88	287.32	282.44	187A d Johnson
T.P.	2.27	<u>281.45</u>	8.14	279.18

00-20 = N c6 Hayes to West

E.G.		4.7	276.8
N.L.		4.7	276.8
+35	Top end c6	3.93	277.52
+125	" c6 Ret EL 10th	2.51	278.94

0-10 = N.L Hayes to W.

W-8	9 Apron	4.70	276.75
W-2	Car "	4.77	276.68
W		4.4	277.1
E		4.3	277.2

0-6

South

W-8	E Garage Entrance	4.45	277.00
-----	-------------------	------	--------

0+00 = N.L Hayes to E

E		4.0	277.5
W		4.0	277.5

0+13.5

W	Top beg. Fobble Wall	+ 1.10	282.55
W	ground	3.7	277.8
E		3.4	278.1
+10		4.0	277.5

281.45

T.P.	1006	290.79	0.72	280.73
		0+37		
-10			9.9	280.9
E			9.1	281.7
C			9.0	281.8
C + 4.7	ground	Bot. end c6. wall	7.7	283.1 + Top wall
		0+40		
W + 1.7	cto 12" P.P.			
		0+49		
W			7.0	283.8
W + 0.5	end. E + W fence		7.0	283.8
E			7.4	283.4
+10			7.8	283.0
		0+70		
-10			5.7	285.1
E			5.5	285.3
W			5.2	285.6
		1+00		
W			4.6	286.2
E			4.5	286.3
		1+40.65	SL alley to E.	
E			3.3	287.5
W			3.2	287.6
		1+42		
W + 1.2	cto 12" P.P.			

Reduced & Plotted 11-27-44

	1+50.65	290.79		
W		3.0	287.8	
C	R.M. M.H.	2.54	288.27	
E		2.9	287.9	
	1+60.65 N. Alley E			
E		2.0	288.2	
W		2.6	288.2	
	1+61.4			
E - 0.3	Cor. Picket fence			
	2+00			
W		2.5	288.3	
E		2.4	288.4	
	2+09			
E - 0.45	angle Picket fence			angles to RT. to SW. Cor. SW. gate
	2+26			
W + 1.0	CTR. 14" P.P.			
T.P.	4.94	292.79	2.94	287.85 on Hub 1+50.65
	2+28.5			
W + 0.7	Reg. Lath fence			0.7 m. alley
	2+29.5			
E - 14.1	9 10.3 Sim. gar. wide floor	3.54	289.25	
	2+46			
E - 0.8	Reg. Lath fence	4.0	288.8	

		292.79	10' alley	37
E		4.8	288.0	
W		4.7	288.1	
	2+68			
W		4.9	287.9	
C		5.0	287.8	
E		4.9	287.9	
	top end Lath fence			
	1/2 C to Cor. house	3.9	288.9	
	2+71			
W	end Lath fence			
	2+78			
E - 2.8	Cor. house	4.0	288.8	
E - 0.3	beg. Cobble wall	4.0	288.8	
E		5.0	287.8	
C		5.0	287.8	
W		4.9	287.9	
	3+01.3 S.L. Johnson to W.			
W	cb	4.90	287.89	
W	Par	5.13	287.66	
"	+ 4	5.29	287.50	
C	"	5.27	287.52	
E	"	5.01	287.78	
E	top Cobble wall	4.2	288.6	
	3+11.3 S.L. Johnson to E. of S. cb to W.			
E	Top cb	4.68	288.11	
E	Par	5.28	287.51	
C	"	5.56	287.23	

292.79

W pay	5.71	287.08
W Top F v R. Riley Ret	5.14	287.65

3421.3 5 cb to E

W pay	5.84	286.95
C "	5.73	287.06
E "	5.00	287.19
+ 10 "	5.39	287.40
" " Top cb BC	4.77	288.02

T.P.	6.64	294.49	4.94	287.85	1150.25
------	------	--------	------	--------	---------

T.P.	8.00	299.94	2.57	291.92
------	------	--------	------	--------

Levels in E + W 20' alley

Blk 136 V.H.

299.92 from P.32

0-16

S	Top of R. alley Ret.	7.25	292.67
S	Pay.	7.70	292.22
C	"	7.55	292.37
N	"	7.43	292.49
N	Top of R. alley Ret.	6.96	292.96

0+00 W.L. VERMONT

N	Top curb	6.68	293.24
N	Pay.	6.70	293.22
C	"	6.98	292.94
S	"	6.97	292.95
S	Top curb	6.92	293.00
S	" Wall	5.18	294.74

0+02.5

S		5.3	294.6
+4		6.4	293.5
C		6.5	293.3
+5		6.4	293.5
N	Bay. picket fence ^{on} line	4.7	295.2

0+17

N		4.5	295.4
C		4.8	295.1
S		4.6	295.3
	to 10 N. edge 2.3 cent walk	4.45	295.47 ✓

Reduced-Plotted
11-28-44 C.D.H.

Also
 1854
1700
 37
 76 to 78
 9-17-48

	0+19		
S	- 2.3 NE Cor House ✓		
	0+27		
N	+ 1.2 Cor. 9" Tel. Pole ✓		
	0+50		
N	fence	4.7	295.2
C		4.7	295.2
S		4.8	295.1
S	+ 0.10 on walk 2.3 wide	4.8	295.24 ✓
	0+63		
S	- 2.3 NW Cor House ✓		
	0+65		
S	- 0.10 4' wide walk	4.72	295.20 ✓
S		4.9	295.0
C		5.0	294.9
N	fence ✓	4.8	295.1
	0+73		
S	- 0.1 E Cor apron 8 wide	4.78	295.14 ✓
S	- 3.9 S SW Cor. cent. fl.	4.67	295.25 ✓
	0+77.5		
S	- 0.10 Cor. Cor apron	4.79	295.13
S	- 3.9 apron	4.67	295.25
	1+00		
N	- 0.10 E 3' cor walk	5.53	294.39 ✓
N		5.8	294.1
C		6.1	293.8
S		6.1	293.8

2999v

1+04			
S-15.4	Req. Dangle, ^{CON.} fl.	5.90	294.02 ✓
1+18			
S	✓	6.4	293.5
+0.7	CTR. 11" P.P.	6.5	293.4
C	✓	6.5	293.4
N	end Picket fence	6.1	293.8
1+25.5			
N	4.5 Wide Con apron	6.12	293.80 ✓
-6	Req. Sin. Con, CON.	5.96	293.96 ✓
1+42.5			
N	+0.1 CTR. 8" Tel. pole ✓		
1+56			
N-6	Req. Sin. 900. CON	6.72	293.20 ✓
N-03	Req. 10' end apron	7.12	292.80 ✓
N		7.3	292.6
C		7.6	292.3
S		7.7	292.2
T.P.	4.19	296.17	7.94
	2+00		291.98
-10		5.2	291.0
S		4.7	291.5
C		4.5	291.7

29617

alley 136 U.H.

40

N		4.6	291.6
+10		4.6	291.6
2+05.5			
S+0.1	Req. Picket fence ✓		
2+30			
S+1.1	CTR. 14" P.P. ✓		
N-0.2	Req. Wire fence ✓		
2+50			
N		4.1	292.1
C		4.4	291.8
S		4.4	291.8
+6		4.8	291.4
2+16	Back up please. Missed this		
S-45.8	Sin. 900. ^{CON.} fl. 6.30		289.87 ✓
2+80			
N+0.9	CTR. 8" Tel. Pole ✓		
2+81			
S-10		4.9	291.3
S		4.8	291.4
+0.3	end Picket fence ✓		
C		4.6	291.6
N		4.5	291.7
2+90			
N-0.5	end Wire fence ✓		

29617

3+11			
N-9.6	Sin. 900	Cost Bik fl.	5.15
			291.02 ✓
N-2	2 7.7	Con. Bik apr.	5.21
			290.96 ✓
N			5.2
			291.0
C			5.3
			290.9
S			5.3
			290.9
+10			5.5
			290.7

3+18

N-1	Req. Chicken fence	Wire	✓
3+19			
N-1.3	end Chick fence		✓

N-2.0 SE Cor Shed

3+40

N-2.5 SW Cor Shed

3+42

N-1 Req. wire fence

3+50

-10			6.4
			289.8
S			5.8
			290.4
C			5.9
			290.3
N			5.8
			290.4

3+55

S+1.8 CTC 14" PP ✓

3+81

N CTC 8" Fch P. ✓

29617

41

3+81

N-0.5	end wire fence		✓
N-1.0	Req. ornamental fence		✓
4+00			
N			6.5
			289.7
C			6.8
			289.4
S			7.1
			289.1
+10			7.4
			289.0
4+10			
N-0.5	end ornamental fence		✓
4+17			
N-9.9	Sin. 900, Con. fl.	C.28	
			289.89 ✓
4+50			
-10			7.7
			288.5
S			7.4
			288.8
C			7.4
			289.0
N			7.2
			289.0
4+63			
S+0.9	CTC 14" PP		✓
4+70			
N-9.9	8 Sin. 900, Con. fl.	C.74	
			289.43 ✓
N-6.5	8 10x Con. apron	7.04	
			289.13 ✓
N			7.4
			289.0
C			7.7
			288.5
S			7.5
			288.7
+10			7.8
			288.4

4+77			
N-4.6	8" wide Con. Wk	7.13	289.04
4+79			
N-1.0	Beq. Con. Ret. Wall ^{311 Top} _{with}	7.04	289.15
4+80			
-1.0		8.0	288.2
S		7.7	288.5
C		8.0	288.2
+6		7.9	288.3
N		7.1	289.1
+1	Con. Wall	7.02	289.15
5+0.6			
N-1	8" end Con. Wall	7.22	288.95
N		7.6	288.6
+4		8.3	287.9
C		8.3	287.9
S		8.5	287.7
+1.0		8.7	287.5
5+2.5			
N+0.4	Cir. of 12" Tel. P.	✓	
5+3.0			
S		8.5	287.6
C		8.4	287.8
+5		8.1	288.1
N		7.6	288.6

5+42.58 = E.L. 10' alley

See P. 37

Z.P.	2.50	290.35	8.30	287.85	Hub
					1450.65
					5142.58
check to orig. B.M.			7.91	282.44	

Topography Pueblo Lots 190-191

Catalina Blvd to Canon

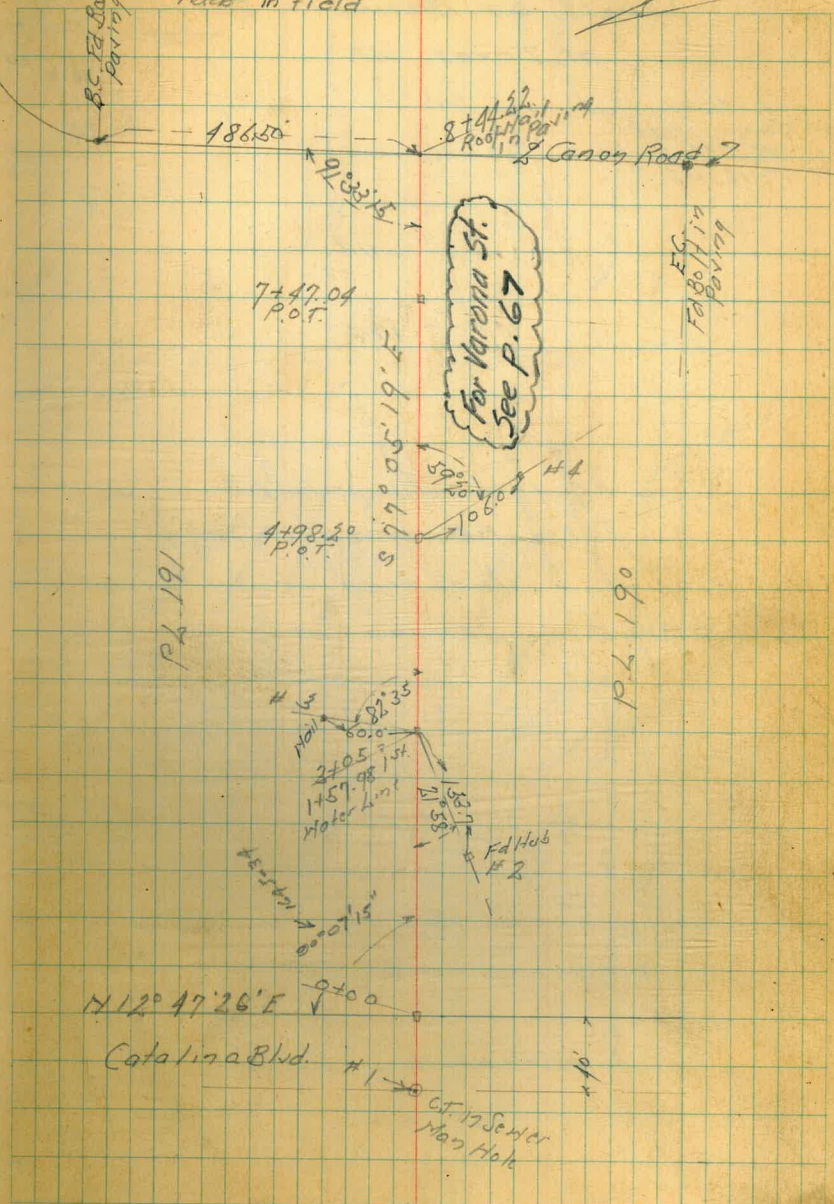
BM	292	253.74	250.82	SW & P Catalina Blvd & Verona
#1	2 Catalina	5.00	248.7	
#2		9.97	243.77	07 Hub
TP	1.31	242.42	12.63	241.11
TP	1.19	230.76	12.85	229.57
#3		13.04	217.72	
TP	0.82	218.61	12.97	217.79
TP	0.32	206.02	12.91	205.70
#4		7.45	198.57	
TP	1.05	194.59	12.48	193.54
TP	0.35	182.57	12.37	182.22
7+47.04	P.O.T. Baschinc	11.43	171.14	07 Hub
TP	1.04	170.74	12.87	169.70
TP	1.19	159.13	12.80	157.94
8+45.01		7.12	152.01	07 E Nail Pl. & Canon

Indexed
c.s.k.

See Roll 7338 for drawing
made in field

Jan 3-45
Sisson
8/1/51
Osborne

43



Indexed
C.S.K.

Levels at Adams Ave Bridge
at Texas St.

C. Moore
Sommers-Meyer
W.F.M.
1-15-45.

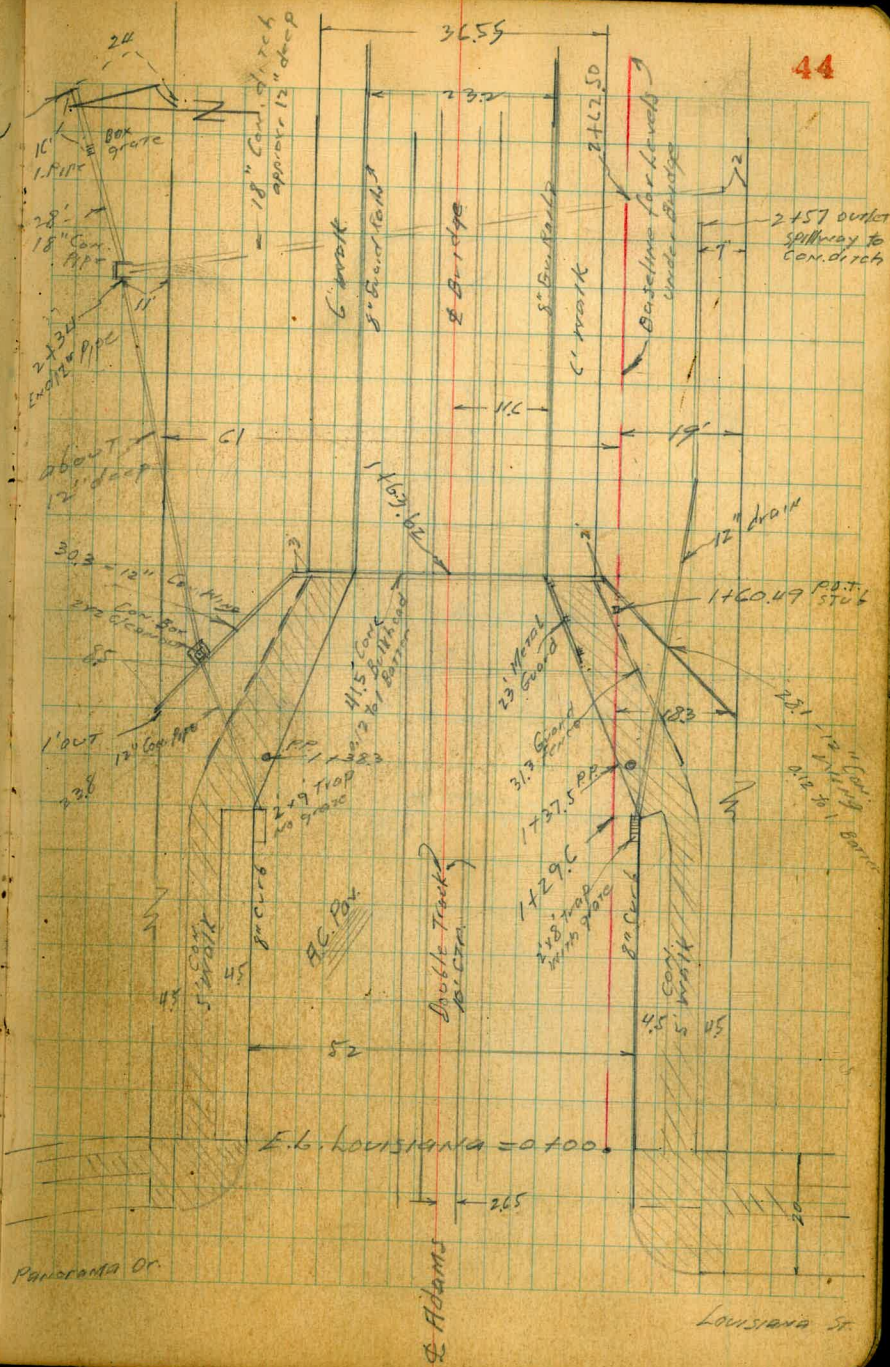
24.5 Rail
0.7
7.37 Rail

2476
Ext. 18"
1. Pipe

278	11.6
24	.17
4	6.0
10	18.27
28	

See FB. 1442-11-12-78

See also FB. 1124 Levels
and a location of 24" water
line on Texas St.



Levels on Adams Ave
Louisiana to Arizona

1400

0475

0450

0425

0400 EL. Louisiana

Set BM. SE. 7' C.T.		429	350.7x	Louisiana Adams
T.P.	893	355.03	5.27	346.10
B.M. S.E. Cor.	534	351.37		346.03 Madison Texas

LT.

740.113

P.

46

506	573	471	464	463	463	461	460	549	489
06	97	13	R	R		R	R	13	97

550	457	453	452	453	449	450	456	545	469
97	13	R	R		R	R	13	97	06

done

462	530	452	443	443	443	440	445	447	534	460
06	97	13	R	R		R	R	13	97	06

462	501	440	435	434	432	430	434	441	516	457
06	97	13	R	R		R	R	13	97	06

411	507	420	419	418	419	417	419	429	422	450
06	97	13	1111	1111		1111	1111	13	97	06

H1 355.03

deck Levels

1+75

T.P. 9.23 359.38 4.88 350.15

1+63.5 W. end Bridge

32.63 34.43 34.63
20.6 20.6 20.4
 45 40 26

1+44

1+04

11.2 4.70 7.1 6.8
 44 NL 30
 343.8 Top ground
 50.2

1+29.5 angle of

1+20

355.03

LT

±

RT

47

940 9.09 9.04 9.01 9.18
 18.27 11.6 11.6 11.6 18.27

359.38

48.87 47.55 50.91 50.76 (HI 355.03)
 C/L 5.48 5.12 4.27 4.93 4.85 4.76 4.66 50.83 49.63 41.13 43.0
 18.27 12.2 11.6 11.6 4.85 11.6 11.6 49.7 54.0 13.7 17.0
 Δ Top 50.10 350.18 50.27 Top
 bottom slw. Top 8" Gen. Rail 8" Gen. Rail
 Gen. Rail Schl. & Abut.

5.20 5.8 C.0 4.89 7.4 8.9
 28.7 29 4.0 4.0 Top 4.2 5.2
 5.6 Schl. 9.000 Abut.

5.49 5.33 5.77 5.18 5.07 5.26 4.98 5.00 4.97 4.88 5.28 5.07
 29.2 26 20 13 R R R R R R 13 20 20
 56 56 56 56 56 56 56 56 56 56 56 56
 50.05

5.51 7.06 5.91 4.97 4.92 4.91 4.90 4.88 4.87 4.79 5.90 7.36 5.24 5.1
 06 97 13 R R 50.13 R R 13 97 56.100 06 56
 12.710

5.50 6.01 4.20 4.24 4.20 4.20 4.78 4.77 4.71 5.94 5.15
 06 7 13 R R 50.23 R R 13 97 06

355.03

2+25

2+100

2+75

2+11.3

2+10.4

2+50

2+25

2+100

359.38

L7

£

RT.

<u>8.30</u>	<u>8.21</u>	8.21	<u>8.18</u>	<u>8.34</u>
18.27	11.6		11.6	18.27

48

59.38

<u>8.51</u>	<u>8.42</u>	8.42	<u>8.40</u>	<u>8.48</u>
18.27	11.6		11.6	18.27

<u>8.62</u>	<u>8.55</u>	8.57	<u>8.60</u>	<u>8.59</u>
18.27	11.6		11.6	18.27

Trolley Pole
13

Trolley Pole
12.9

<u>8.71</u>	<u>8.57</u>	8.56	<u>8.52</u>	<u>8.83</u>
18.27	11.6		11.6	18.27

<u>8.79</u>	<u>8.64</u>	8.63	<u>8.67</u>	<u>8.93</u>
18.27	11.6		11.6	18.27

<u>8.96</u>	<u>8.83</u>	8.82	<u>8.83</u>	<u>8.98</u>
18.27	11.6		11.6	18.27

359.38

4+50

4+5

4+00

3+75

3+60.4

3+59

3+50

359.38

359.38

$\frac{6.00}{18.27}$	$\frac{5.90}{11.6}$	588	$\frac{5.89}{11.6}$	$\frac{5.99}{18.27}$
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$\frac{6.88}{18.27}$	$\frac{6.75}{11.6}$	674	$\frac{6.72}{11.6}$	$\frac{6.81}{18.27}$
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$\frac{7.54}{18.27}$	$\frac{7.38}{11.6}$	737	$\frac{7.37}{11.6}$	$\frac{7.40}{18.27}$
----------------------	---------------------	-----	---------------------	----------------------

$\frac{7.74}{18.27}$	$\frac{7.76}{11.6}$	774	$\frac{7.67}{11.6}$	$\frac{7.80}{18.27}$
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Trolley Pole
133

Trolley Pole
131

$\frac{8.14}{18.27}$	$\frac{7.98}{11.6}$	799	$\frac{7.95}{11.6}$	$\frac{8.15}{18.27}$
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359.38

4+99.0

34C	419	34C	30V	35V	424	37C
2C	2C	73		13	2C	2C
CB	97				97	CB

4+85.5

405	693	427
22	22	22
CB	FL	97

Inlet 30" Carr. I.P.
ON GRATE

359.38

4+80.5

31
40

39C	410	480	446	438	440	442	442	514	760	440	423	300
301	CB	20.C	1P	R	R	R	R	20C	20C	CB	30.1	40
WALK		97						97	FL		5L	
								GRATE	24" Carr.	1. PIPE	WALK	

4+69.53

3.3
40
ground

479	480	513	502	500	501	501	503	52C	468	481	47
24	16	16	R	R	R	R	R	1C	12	24	40
WALK	CB	97						97	CB	WALK	ground

4+61.3
FL. Box inlet R.R.
18" Carr. I.P.
Bet. Tracks 778
EL. 351.6

4+59.3 E. end Bridge

353.81 do
5.57 5.57 OUT 470 488 474
12.2 18.2
WALK Top Bulkhd ground

4+59.3 E. end Bridge

4.8	8.9	12.3	585	560
40	2C	21	TOP	18.27
			Bulkhd	WALK

359.38

5.60	507	547	551	551	54.93	53.87	53.88	54.60
12.2	11.6	11.6	Rail	Rail	51.45	5.51	5.50	4.79
WALK	TOP					Rail	Rail	11.9
	end							TOP end
	Car							Car. CB
	CB							

359.38

06

C+81.01 = W.L. Arizona

C+50

C+25

C+00

S+75

T.P.

1234

370.85

0.87

358.51

S+50

S+25

359.38

LT

E Adams

RT

51

4.87 c6	5.45 97	4.77 13	4.68	4.64 13	5.03 97	4.11 c6
------------	------------	------------	------	------------	------------	------------

drive c6	7.05 97	6.47 13	6.25	6.33 13	6.89 97	6.31 c6
-------------	------------	------------	------	------------	------------	------------

drive c6	8.30 97	7.68 13	7.55	7.70 13	8.39 97	7.87 c6
-------------	------------	------------	------	------------	------------	------------

CB IN drive	9.73 97	9.16 13	9.05	9.16 13	9.89 97	9.78 c6
-------------	------------	------------	------	------------	------------	------------

10.57 c6	11.20 97	10.65 13	10.54	10.69 13	11.37 97	10.77 c6
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370.85

1.10 c6	0.54 97	0.51	0.63 13	1.37 97	0.76 c6
------------	------------	------	------------	------------	------------

2.60 c6	2.05 97	1.91	2.07 13	2.80 97	IN drive
------------	------------	------	------------	------------	----------

359.38

Check fly to B.M. on Adams

370.85 K Fuel

T.P.	1.92	383.54	0.23	370.62	
T.P.	6.7	387.93	1.88	381.66	
SWBP Adams + Oregon			3.85	384.08	383.95
T.P.	6.48	387.19	7.22	380.71	<u>0.13</u>
T.P.	2.43	382.81	6.81	380.38	
SEBP Madison + Hamilton			3.76	379.95	378.99
T.P.	0.79	371.63	11.47	371.34	<u>0.06</u>
T.P.	0.13	358.70	13.06	358.57	
check to starting B.M.			12.06	346.04	346.03

D.K.

Levels under Adams Bridge

Baseline 19' N. of S.W. Adams Ave

Note 1st dia. of Piers = E & W2nd " " " = N & S

PUC				
SE. 7' C.T.	1.17	351.86		350.74 Louisiana PIERS
T.P.	0.39	340.03	12.22	339.64

1466.3

BL = Baseline		+1.4	
15 S		+3.4	
20 S		+2.7	
35 S		+4.0	
12 N		3.1	
21 N		5.0	335.03
28 N		6.7	33.33
32 N		6.8	33.23
37 N		7.2	32.83
44 N		6.2	33.83
54 N		6.0	34.03
61 N		7.1	32.93
80 N		10.6	29.43

1468.3 = abandoned Piers

9 N & top 2x2 Pier	1.94
18.5 N " " 2x2 "	3.48
25.6 N " " 1.9x2 "	4.70
34.6 N " " 2x2 "	6.50

340.03

53

1481

BL		6.1
7.5		3.6
15.5		0.2
19.5		0.0
35.5		+2.0
6 N		7.8
7.5 N & 2.3x2.3 Pier		7.22
15 N		10.1
17.9 N & 2.7x2.3 "		9.55
21 N		11.4 20.63
25.3 N & 2.4x2.5 "		11.56
27 N		12.0
33 N		12.8
35.7 N & 2.5x2.5 "		12.20
37 N		13.0
47 N		12.5
61 N		15.5
76 N		19.0
90 N		20.2

1499.8

BL		9.1
6.5		4.8
10.5		3.4

340.03

1499.8

19 S			1.7	
29 S			0.0	
40 S			+0.7	
5 N			11.3	
6.9 NE 2.5 x 2.5 Pier			11.06	
T.P.	290	<u>330.10</u>	12.83	327.20
8' N			3.5	
15' N			7.0	
17.6 N E 2.5 x 2.5 Pier			6.12	
21 N			8.2	
23 N			9.0	
24.9 N E 2.2 x 2.2 Pier			8.74	
27 N			10.2	
35 N			12.2	
36.9 N E 2.5 x 2.5 Pier			11.79	
39 N			13.0	
45 N			12.2	
61 N			14.8	
70 N			18.5	
90 N			19.6	
	2+20			
B.L.			2.7	

330.10

54

10 S			+2.3	
19 S			+4.6	
40 S			+8.9	
5 N			5.7	
6.5 N E 2.5 x 2.5 Pier			5.06	
9 N			7.0	
15 N			10.3	
17.5 N E 3.6 x 3.7 Pier			10.06	
21 N			11.5	
23 N			13.1	
25 N E 3.5 x 3.9 Pier			13.04	
27 N			14.5	
T.P.	3.82	<u>320.92</u>	12.98	317.12
32 N			6.7	
36 N			10.7	
38.2 N 2.5 x 2.5 Pier			10.50	
40 N			11.5	
50 N			13.5	
61 N			18.6	
75 N			21.1	
90 N			22.4	
	2+30			
B.L.			+2.8	

320.94

2+30

10 S	+8.0
19 S	+9.9
40 S	+11.5
7 N	0.0
13 N	1.4
21 N	4.5
26 N	6.2
30 N	11.8
38 N	12.2
61 N	24.1
72 N	25.9
85 N	27.1
97 N	32.6

2+40 Beg. of Bridge Span

B.l.	1.4	319.44
10 S	+1.8	
19 S	+4.1	
25 S	+3.2	
34 S	+7.6	
37 S	+9.4	
45 S	+11.5	
6' N	3.7	
10.4 N E 5.2 x 7 ^{Top} Pier	1.65	
E. side 0.18 to 1' Batten	W. side same as E	
N " 0.2 to 1' "	S " " " N	

320.94

2+40

55

16 N	7.0
21 N	7.5
24 N	8.2
27 N ground	15.1
32.6 N 8 4.2 x 4.9 ^{Top} Pier	1.69
W side 0.17 to 1' Batten	S. side 0.12 to 1' Bat.
N " 0.12 to 1' "	E " 0.2 to 1' "

T.P. 298 313.47 10.45 310.49

38 N ground	16.0
57 N	19.9
58 N in Cond. slots	21.2
61.5 N " " "	21.4
62 N	20.4
71 N	21.6
90 N	25.5

2+48

B.l.	+1.5	314.97
15 S	+1.2	
16 S	+4.2	
26 S	+5.1	
29 S	+8.8	
38 S	+10.1	

2+48

44 S	+15.1
10 N	1.1
21 N	7.7
25 N	14.1
37.5 N	NE Cor. ground Base of Pier 17.8
39 N	in Con. ditch 19.1
42 N	" " " 19.4
45 N	" " " 18.6
50 N	" " " 20.5
61 N	" " " 21.2
100 N	oil Pav. 25.9

2+56

B.L.	5.6
9 S	1.8
12 S	approx FL outlet drain 4.1
15 S	4.0
20 S	3.7
25 S	+2.1
45 S	+4.2
53 S	+10.7
16 N	14.7
17 N	in con ditch 15.8
20 N	" " " 16.2
21 N	15.5
31 N	17.3

309.37

50 N	19.6
100 N	oil Pav 25.9
T.P.	0.87
	<u>301.38</u> 12.90 300.51
check to B.M. B.P. NE Cor	
Base of Pier	4.97
32.6 N of 2+40	296.41 296.44
	2+62
B.L.	in ditch 1.6
3 S	0.1
16 S	+4.3
19 S	+3.7
24 S	+9.8
47 S	+13.0
50 S	+17.9
3 N	in ditch 1.8
4 N	0.9
14 N	3.1
21 N	3.8
61 N	9.1
80 N	Top grate 11.6 (289.78)
"	FL. Bot. Box 15.6 (285.78)
87 N	17.0
100 N	E. edge Shoulder 13.4
	2+34
72 N	Bot. Fl. Box 17.5 288.9
	end 12" drain
	" Con. ditch
	beg. 18" Con. Pipe across Rd.

2+67.4 W edge oil pav

BL	Wedge Pav	1.3
19 S		0.0
29 S		+5.7
42 S		+9.8
49 S		+12.0
52 S		+15.7
21 N		3.8
61 N	E edge oil Rd	9.1
70 N	Shoulder	9.6
77 N	"	10.6
100 N	"	16.0

2+77.6

BL	Cre. oil Pav	1.3
45 S		+1.4
30 S		+2.0
35 S		+1.5
50 S	Toe CUT	+3.5
21 N		3.9
31 N	E. edge oil	5.2
41 N		6.0
61 N	Shoulder	8.2
85 N	end 18" l. Pipe	18.6
100 N		21.0

2+95

BL	edge shoulder	0.9
17 S	E edge oil Pav	+0.7
40 S		+3.4
21 N		7.9
61 N		19.1
74 N		23.9
84 N		29.4
88 N	pot hole →	36.5
93 N	oppos. end drain →	37.0
96 N	Bot. Canton	31.4
100 N	" "	32.2

3+0.8

BL		8.5
19 S		2.0
40 S	Shoulder	+3.8
54 S	edge oil	+5.0
21 N		17.0
46 N		22.6
61 N		26.7
75 N		31.1
85 N		33.8
100 N	Bot Main Wash	38.7

T.P. 0.27 299.01 2.64 298.76

371C

B.L.	11.2
19 S	5.2
53 S E. Shoulder Rd +	7.7
21 N	17.5
35 N	21.1
50 N	23.7
61 N	24.4
64 N Bot. Wash	26.4
69 N " "	26.6
74 N	23.7
90 N	24.1
100 N	26.0

3728

B.L. Bot. Wash	15.5
19 S	11.4
55 S	0.0
21 N	17.4
36 N	18.1
41 N	21.1
50 N	21.7
61 N	20.5
63 N	20.9
66 N	16.8
80 N	17.4

100 N 21.1

3750

B.L.	12.2
19 S	9.2
37 S	7.7
54 S	0.0
7 N	13.0
10 N	11.5
21 N	13.2
26 N	11.4
31 N	11.4
41 N	14.5
61 N	17.3
72 N	8.5
85 N	10.2
100 N	12.2

3766

B.L.	7.0
3 S	4.5
13 S	4.5
16 S	4.5
21 S	6.6
22 S	3.4
38 S	0.5
52 S	+5.0

299.01

34CC

5 N	7.0
8 N	4.2
21 N	4.6
30 N	5.1
36 N	7.1
47 N	7.6
51 N	4.0
53 N	7.9
61 N	7.4
64 N	7.5
73 N	+2.9
88 N	+0.9
100 N	1.3

T.P. 1293 311.46 0.48 298.53

3480 End of Bridge Span

BL	13.1
3 S	10.6
10 S	9.8
15 S	15.4
19 S	15.2
24 S	7.7
40 S	7.0
4 N	13.1

311.46

Batter
N. Side 0.13 to 1
E " 0.22 to 1
S " 0.08 to 1
W " 0.16 to 1

59

94 N 9	4.9 x 6 Pier	+8.46
14 N	ground	9.6
21 N	"	9.6
28 N	"	9.9
32.4 N 9	4.2 x 5 Pier	+8.40
37 N	ground	9.1
40 N		10.8
50 N		9.5
61 N		9.8
66 N		6.6
73 N		0.8
90 N		0.0

3485

BL	11.1
3 S	9.8
10 S	8.0
15 S	13.8
19 S	13.8
24 S	6.0
40 S	5.0
61 N	8.8
13.5 N	5.2
21 N	5.5
28 N	5.6
37 N	6.5

inside Batter
0.1 to 1
E " 0.2 to 1
S " 0.1 to 1
W " 0.22 to 1

These Piers
have been
underpinned by
Sperry water
and have
been reinforced
not too good

311.46

3785

50 N			6.4	
61 N			6.1	
66 N			4.6	
73 N			+2.2	
90 N			+2.4	
T.P.	8.45	<u>319.87</u>	0.04	311.46
	4400			
B.L.			9.2	
4 S			8.4	
14 S			12.5	
19 S			15.0	
23 S			15.1	
30 S			5.0	
40 S			3.2	
2 N			9.2	
3.9 N	2.5 x 2.5	Pier	7.7	
5 N			8.7	
16 N			8.9	
17.9 N	2.3 x 3.5	Pier	5.51	
21 N			7.7	
23.9 N	2.7 x 3.7	"	4.60	
26 N			7.8	
35 N			8.7	

319.87

60

37.7 N	4.5 x 4.5	Pier	4.60	
41 N			7.7	
54 N			6.8	
66 N			5.5	
68 N			+1.5	
85 N			+4.0	
	4410			
B.L.			3.9	
6 S			1.0	
14 S			3.1	
15 S			16.7	
20 S			16.8	
22 S			2.6	
35 S			+3.0	
45 S			+4.8	
5 N			2.0	
8 N			3.4	
21 N			4.0	
37 N			2.3	
50 N			+0.9	
61 N			+2.0	
68 N			+6.8	
85 N			+9.6	
T.P.	9.07	<u>328.29</u>	0.05	319.87

4420 P.C.V

2.5 Con. gutter

H.L. from P. Cor

337.41

E.L. outlet 10" Concr. P. 22.1

0+00

Top of curb 13.07

Gutter, E.L. inlet 10" 14.56

0+04

Top of curb 13.01

Gutter 14.01

0+11.8

Top of curb 11.58

GUT 12.48

0+20.7

Top of curb 8.78

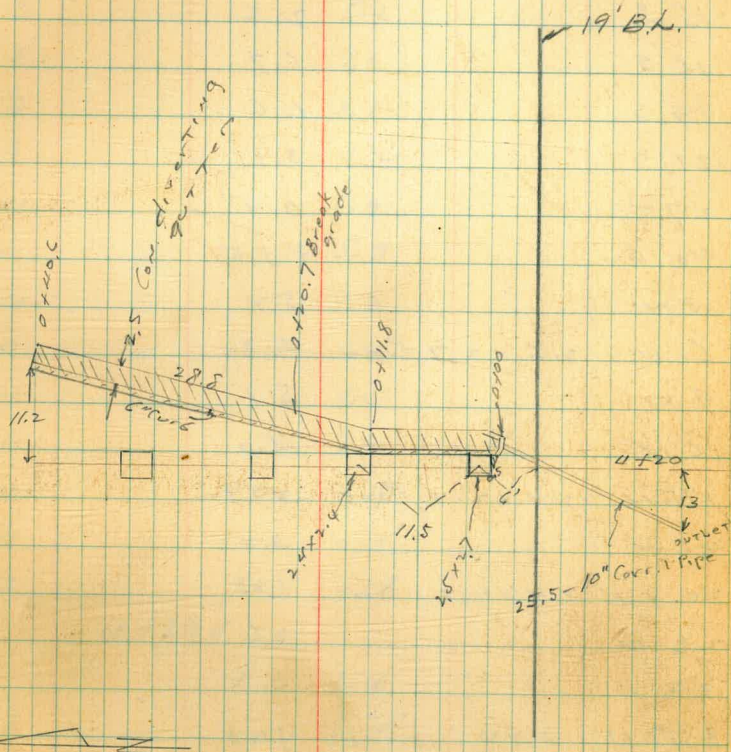
GUT 9.60

0+40.6

Top of curb 4.29

GUT 5.33

67



328.29

4+20

B.L.			4.6	
9 S			3.8	
15 S			2.5	
16 S			6.7	
19 S			6.6	
21 S			3.1	
27 S			0.4	
46 S			+1.5	
3 N			5.2	
6 N	2.5 x 2.7	Pier	4.30	
9 N			5.1	
16 N			4.0	
17.5 N	2.4 x 2.4	Pier	2.79	
21 N			3.4	
24.8 N	2.4 x 2.4	"	1.28	
26 N			2.6	
33 N			3.2	
35.7 N	3 x 4	Pier	1.21	
39 N			3.2	
54 N			0.7	
61 N			0.6	
70 N			+3.9	
85 N			+4.8	
T.P.	10.31	337.41	1.19	327.10

337.41

62

4+32

B.L.			6.3	
15 S			4.8	
16 S			5.6	
21 S			7.1	
23 S			3.1	
35 S			2.2	
5 N			6.9	
21 N			5.9	
26 N			7.3	
34 N			6.4	
45 N			5.6	
51 N			3.2	
61 N			2.7	
68 N			0.0	
80 N			+1.8	
			4+39.5	
B.L.			1.4	
7 S			1.2	
13 S			1.3	
14 S			5.5	
19 S			5.8	
20 S			+1.0	
35 S			+0.6	
5 N			2.9	

337.41
2

7.2 N	2.9 x 2.9 Pico	2.27	
9 N		2.7	
16 N		2.5	
17.2 N	2.2 x 2.1 Pico	1.17	
19 N		2.1	
21 N		2.2	
23 N		2.4	
24.5 N	2.2 x 2.2 Pico	0.87	
26 N		2.4	
31 N		1.9	
34.1 N	2.3 x 2.3 Pico	0.00	
36 N		1.0	
43 N		1.0	
46 N		+1.8	
61 N		+2.2	
67 N		+4.5	
80 N		+6.1	
T.P.	11.41	<u>347.98</u>	0.84 336.57

4
③ + 49

B.L.	6.5
8 S	7.6
13 S	9.4
22 S	7.1

347.98

63

26 S	4.9
30 S	4.6
8 N	8.3
18 N	8.7
21 N	7.7
37 N	7.0
46 N	4.1
56 N	3.6
61 N	1.3
75 N	+1.7
4+56 ground	
B.L.	1.8
9 S	2.1
16 S	2.6
23 S	0.3
30 S	0.4
6 N	4.8
13 N	5.1
21 N	3.9
24 N	5.8
27 N	4.1
35 N	3.2
40 N	2.3
45 N	0.9
50 N	+1.2

61 N		+4.2	
75 N		+7.0	
4+58' = W. edge Piers at Top			
2.3 N	E Pier Top	+2.31	1x2
"	" " " Base	1.62	
9.7 N	E Pier Top	+2.37	1x3
"	" " " Base	1.60	
17.1 N	E Pier Top	+2.34	1x3
"	" " " Base	1.44	
24.4 N	E Pier Top	+2.33	1x3
"	" " " Base	1.48	
31.9 N	E Pier Top	+2.35	1x3
"	" " " Base	1.51	
39.5 N	E Pier Top	+2.43	1x2.5
"	" " " Base	1.54	

FL out Lot of 24" pipe on S 5.1

FL " RR drain on S +0.40

T.P. 12.34 360.23 0.09 347.89

check to Top end of on S 5.64 354.59 ✓

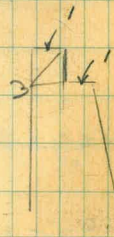
47 4+59.3 P 50

354.59



E Bulkhead.
This has been underplanned also.
NOT GOOD, only plaster

L3



W. Bulkhead

ESM
1-23-45 Adck Levels, Texas St. Bridge

4+67

4+60

T.P. 7.27 359.46 2.04 352.19

1+60

1+50

Wing wall on LT.
is undermined

1+40

1+29.6 Δ in c.b.

SE T.C.T. 3.49 354.23

35074 Louisiana
Adams

LT.

E ADAMS

RT.

65

2.0	3.6	5.2	4.7	5.1	5.04	6.1	6.0	7.1	6.1	7.9	8.9
55	40	35	30	27	22.5	23	29	35	40	50	55
				edge walk	edge walk						

5.4	7.6	7.08	6.01	5.68	5.61	7.9	10.4	10.1	12.7	11.5	11.8
40	32	20.5	19.6	18.2	18.2	19	23	28	35	40	55
			Top Wing	Walk	Walk	Walk					

359.46

2.00	2.07	17.9	17.8	5.13	4.44	9.9	8.8	9.3	10.6	10.3	9.3
40	37	34	26	25	22	23	35	40	46	55	70
				Top Walk	Top Walk						

14.3	4.26	6.2	5.6	4.61	4.18	6.3	7.0	9.2	8.7	8.6
38	37	30	27	26	35	36	40	46	55	70
	Top Wall			Walk	Top Wall					

10.8	7.4	6.7	5.7	4.78	5.2	8.0	7.9	8.0
50	44	40	33	32	40	50	5.5	70
				32 Walk edge				

5.4	4.8	4.4	6.8	7.7
55	40	40	55	70

354.23

Levels, Texas St Bridge

check to Top Curb P. 64 4.87 354.59 354.59

4475

359.46

21.0	3.7	3.7	44.6	4.55	4.7	3.4	2.7
55	40	37	21.7	27.1	27.2	40	55
			edge walk				

359.46

Proposed Road Pueblo Lots 190-191
 Catalina Blvd to Canon St.

Levels next Page

Topog. Page 43

8+12.32 - W.L. Canon St.

7+25 P.O.T.

3+88.97 F.C. $5^{\circ}56'31''$

+50 $4^{\circ}04'67''$ $\Delta 11^{\circ}52'37''$

3+0 $1^{\circ}41'44''$ T 62.41

L 124.38

2+64.59 B.C.R.H.

2+0 P.O.T.

0+0

indexed
 c.s.k.

Canon St

to Roof
 Hail

St

67

Fed. 9.45
 5.5500
 Blis
 Osborne
 8099

$\Delta 100^{\circ}19'22''$
 R 30
 T 35.96
 L 52.53

See 6433-L

Pl. 191

Proposed Road

P.L. 190

3+88.97 F.C.

T 62.41
 L 124.38

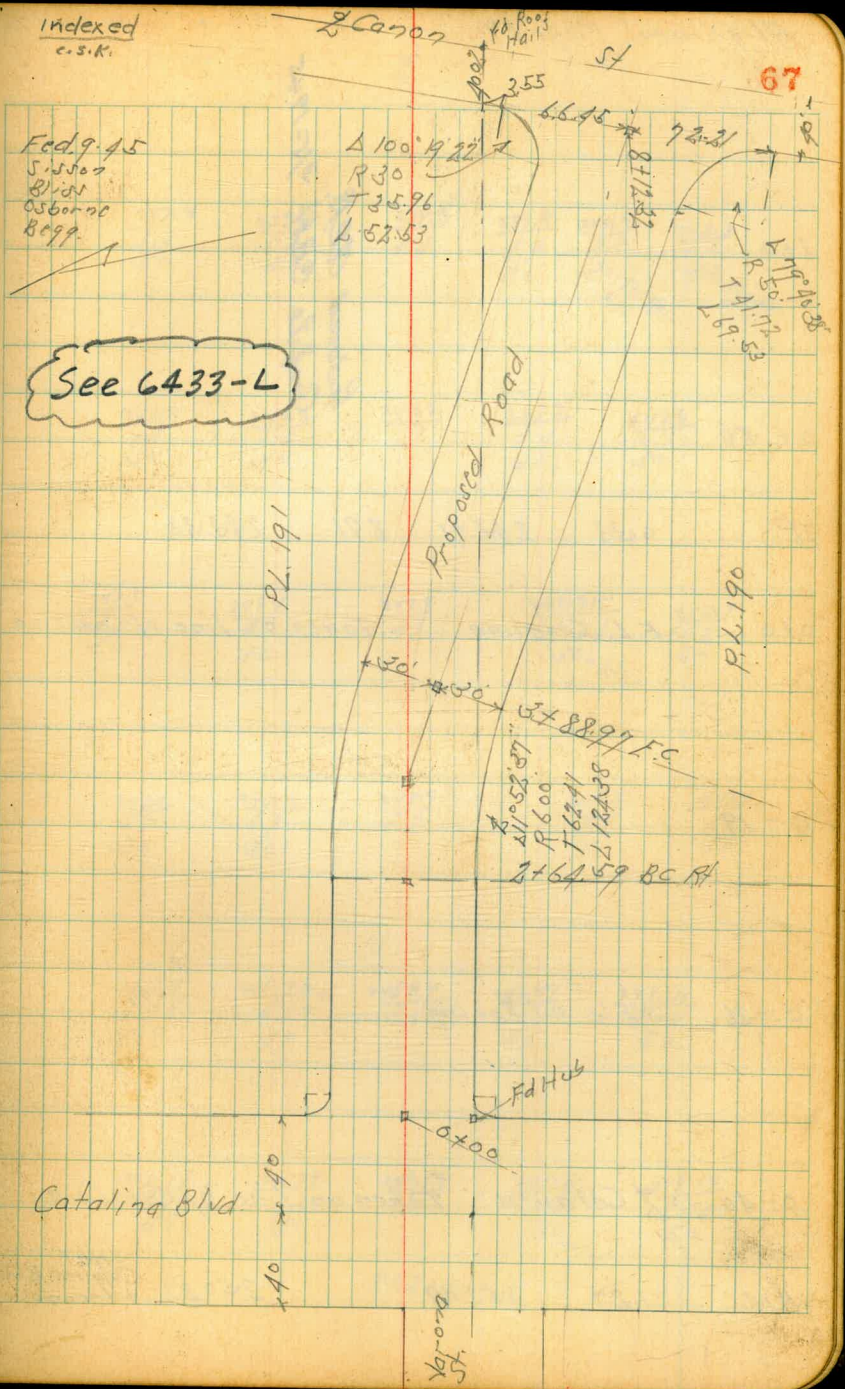
2+64.59 B.C.R.H.

Fall Hub

Catalina Blvd

+40
 +90

Osborne St



Reduced ASP.
 Profile 284 3/1-1945

1+0

0+50

TP 0.33 243.71 8.71 243.38

0+0 = E.L. Catalina Taken on line of Catalina

0-19 " " " "

0-26 = Fly oil paving " " "

0-40 = Catalina Taken on line of Catalina

BM 1.27 252.09 250.82 SMBP Catalina Blvd + Yerona

Lt.

Δ

Rt.

$\frac{237.4}{6.3}$
50

$\frac{238.4}{5.3}$
50

$\frac{239.3}{4.4}$

$\frac{239.8}{3.9}$
20

$\frac{240.2}{3.5}$
30

$\frac{243.2}{0.0}$
45

30-Top Rd.
Fly

$\frac{242.8}{1.4}$
50

$\frac{242.2}{1.5}$
30

$\frac{242.6}{1.1}$

$\frac{242.3}{0.4}$
50

$\frac{242.6}{0.1}$
50

$\frac{242.6}{1.5}$
50

$\frac{242.4}{4.7}$
50

$\frac{242.9}{4.2}$

$\frac{240.75}{4.34}$
30

$\frac{242.7}{4.2}$
50

30-746

$\frac{242.6}{5.1}$
50

$\frac{242.4}{4.7}$
50

$\frac{242.9}{3.2}$

$\frac{242.9}{2.2}$
50

$\frac{242.1}{2.2}$
50

$\frac{245.01}{7.08}$
50

$\frac{245.42}{6.67}$
50

$\frac{246.44}{5.65}$

$\frac{247.44}{4.65}$
50

$\frac{248.11}{3.98}$
50

$\frac{246.12}{5.97}$
50

$\frac{246.24}{5.35}$
50

$\frac{240.59}{4.50}$

$\frac{248.73}{3.36}$
30

$\frac{249.14}{3.95}$
50

30-MH

252.09

Lt. A Rt

TP 100 212.44 11.68 211.44

2+50

2+0

TP 092 223.12 12.12 222.20

2+64.59 BC Rt

2+40

TP 1.15 234.32 10.54 233.17 ^{07 Hub} 2+0 2

2+0

1+50

243.71

$\frac{212.8}{10.3}$ $\frac{213.5}{9.6}$ $\frac{213.4}{9.7}$ $\frac{210.9}{12.2}$ $\frac{209.4}{13.7}$
50 50 50 30 50

$\frac{212.5}{5.6}$ $\frac{218.2}{4.9}$ $\frac{218.0}{4.1}$ $\frac{218.8}{4.3}$ $\frac{218.0}{4.1}$
50 30 30 30 50

$\frac{221.1}{13.2}$ $\frac{221.2}{14.6}$ $\frac{222.19}{12.13}$ $\frac{221.5}{12.8}$ $\frac{220.6}{13.7}$
50 30 07/166 30 50

$\frac{224.7}{9.6}$ $\frac{225.5}{8.8}$ $\frac{226.6}{7.7}$ $\frac{226.8}{7.5}$ $\frac{224.5}{10.0}$
50 30 30 30 50

234.32

$\frac{230.2}{13.0}$ $\frac{232.4}{11.3}$ $\frac{233.1}{10.6}$ $\frac{233.6}{10.1}$ $\frac{231.0}{9.7}$
50 30 30 30 50

$\frac{233.1}{10.1}$ $\frac{235.1}{8.6}$ $\frac{236.2}{7.5}$ $\frac{232.3}{6.4}$ $\frac{234.1}{4.6}$ $\frac{243.2}{0.0}$
50 30 30 30 30 93

243.71

TP 4.63 192.05 12.72 188.42

5440

540

4780

TP 1.53 201.14 12.83 199.61

4750

4715

218897 FC

212.44

Lt.

2

RF

$\frac{192.6}{8.5}$ 65	$\frac{191.5}{9.3}$ 50	$\frac{189.5}{11.6}$ 50	$\frac{187.6}{13.5}$	$\frac{190.2}{10.9}$ 50	$\frac{189.3}{6.8}$ 50	$\frac{192.6}{3.5}$ 55
---------------------------	---------------------------	----------------------------	----------------------	----------------------------	---------------------------	---------------------------

$\frac{192.1}{4.1}$ 50	$\frac{190.2}{5.9}$ 30	$\frac{193.2}{7.9}$	$\frac{193.1}{8.0}$ 30	$\frac{195.3}{5.8}$ 50	$\frac{199.5}{1.6}$ 55
---------------------------	---------------------------	---------------------	---------------------------	---------------------------	---------------------------

$\frac{199.0}{2.1}$ 50	$\frac{198.5}{2.6}$ 30	$\frac{195.1}{6.0}$	$\frac{194.7}{6.4}$ 30	$\frac{195.6}{5.5}$ 50
---------------------------	---------------------------	---------------------	---------------------------	---------------------------

201.14

$\frac{201.1}{11.3}$ 50	$\frac{198.6}{12.8}$ 30	$\frac{192.5}{14.9}$	$\frac{198.2}{14.2}$ 30	$\frac{199.7}{12.7}$ 50
----------------------------	----------------------------	----------------------	----------------------------	----------------------------

$\frac{203.6}{8.8}$ 50	$\frac{202.9}{9.7}$ 30	$\frac{202.1}{10.3}$	$\frac{201.4}{11.0}$ 30	$\frac{203.0}{9.4}$ 50
---------------------------	---------------------------	----------------------	----------------------------	---------------------------

$\frac{207.8}{7.6}$ 50	$\frac{202.6}{7.8}$ 30	$\frac{206.56}{5.28}$	$\frac{204.8}{7.6}$ 30	$\frac{206.1}{6.3}$ 50
---------------------------	---------------------------	-----------------------	---------------------------	---------------------------

212.44

7125 ROT

710

6780

6740

TP 465 184.79 12.91 180.14

670

5775

19305

<u>1684</u>	<u>178.2</u>	<u>176.9</u>	<u>176.21</u>	<u>177.4</u>	<u>178.0</u>
164	91	79	808	54	6.8
60	45	30	00146	30	50

<u>1626</u>	<u>1682</u>	<u>1728</u>	<u>174.9</u>	<u>178.7</u>	<u>180.7</u>	<u>182.5</u>
212	166	120	9.9	61	41	2.3
65	50	40	30	30	30	50

<u>1646</u>	<u>166.2</u>	<u>1711</u>	<u>174.3</u>	<u>177.4</u>	<u>180.5</u>	<u>181.6</u>	<u>184.0</u>
20.2	186	127	10.5	74	4.3	2.2	0.8
65	60	30	30	30	15	30	50

<u>1738</u>	<u>172.9</u>	<u>172.1</u>	<u>1740</u>	<u>178.0</u>	<u>185.7</u>	<u>187.8</u>
110	119	127	108	68	70.9	73.0
65	50	30	15	30	30	50

184.79

<u>1839</u>	<u>182.1</u>	<u>179.4</u>	<u>177.7</u>	<u>180.5</u>	<u>182.4</u>	<u>182.9</u>
9.2	110	107	15.4	12.6	2.7	0.3
65	30	30	30	30	30	50

<u>1821</u>	<u>1868</u>	<u>1845</u>	<u>183.9</u>	<u>188.2</u>	<u>1950</u>	<u>1921</u>
60	63	86	92	34	71.9	74.0
65	50	30	30	30	50	65

19305

BM

11.42 152.05

on F Nail
P2 Line
Canon
152.01
Page 43

8+52.85 = L Pavilign on Canon St.

$\frac{154.24}{12.27}$	$\frac{153.12}{10.35}$	$\frac{155.25}{8.22}$	$\frac{157.52}{5.90}$	$\frac{160.14}{3.31}$
100	50		50	100

8+12.32 = W L Canon Take on Line of Canon

$\frac{157.7}{11.8}$	$\frac{152.2}{10.8}$	$\frac{155.5}{8.0}$	$\frac{157.84}{8.63}$	$\frac{158.7}{7.8}$	$\frac{160.3}{3.3}$	$\frac{160.7}{2.8}$
86.4	50	50	collab	50	50	7.22

8+0

$\frac{156.5}{12.0}$	$\frac{154.3}{9.2}$	$\frac{152.0}{6.5}$	$\frac{158.4}{5.1}$	$\frac{162.1}{1.4}$	$\frac{163.7}{4.2}$	$\frac{164.7}{7.12}$
65	50	30		50	50	65

TP 2.56 163.47 12.71 160.91

163.47

7+75

2.42 171.20

on this
7+47.04
Topog Page 33

$\frac{164.4}{9.2}$	$\frac{165.5}{8.1}$	$\frac{166.4}{7.2}$	$\frac{170.9}{2.7}$	$\frac{168.2}{4.9}$
50	30		30	50

TP 1.60 172.62 12.77 172.02

172.62

7+50

$\frac{171.3}{13.5}$	$\frac{173.0}{11.8}$	$\frac{172.6}{12.2}$	$\frac{176.5}{8.8}$	$\frac{176.1}{2.7}$
50	30		30	50

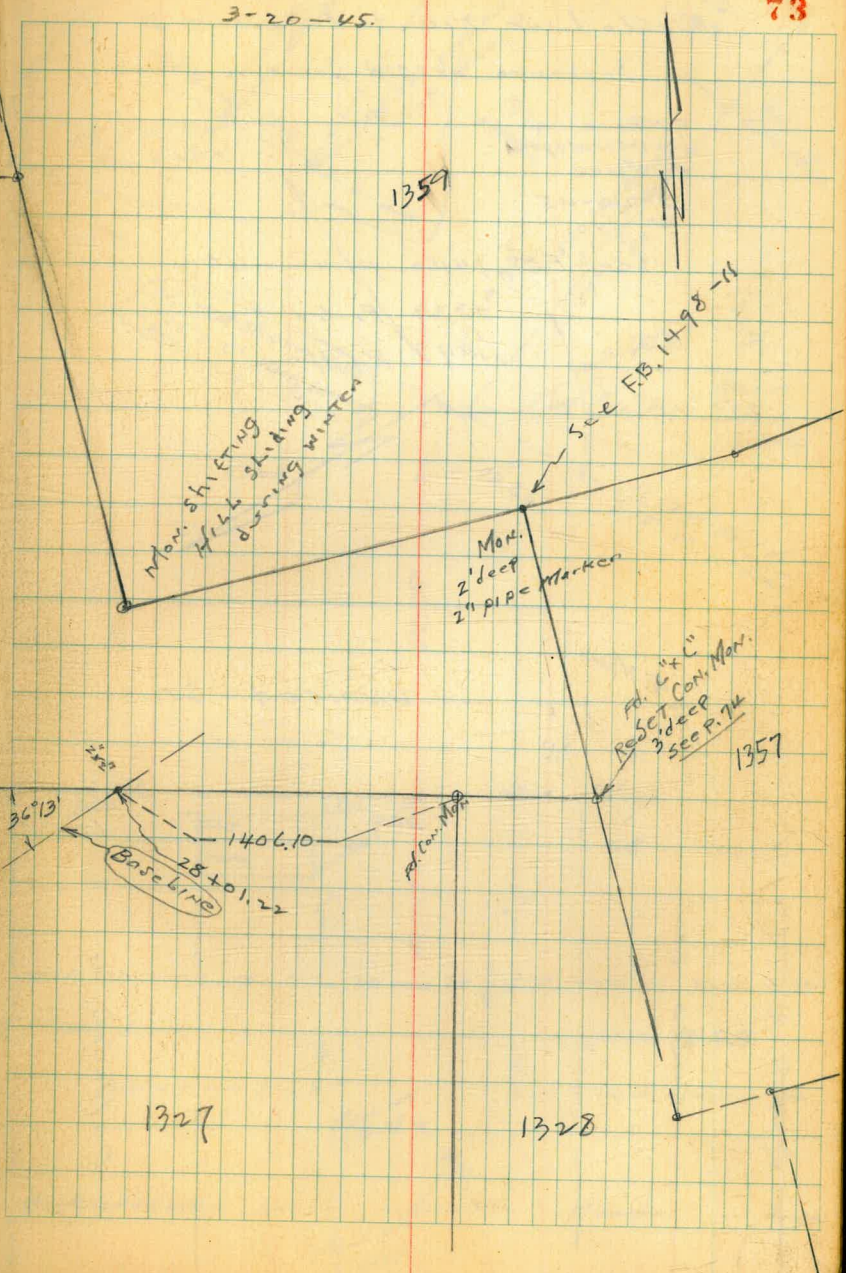
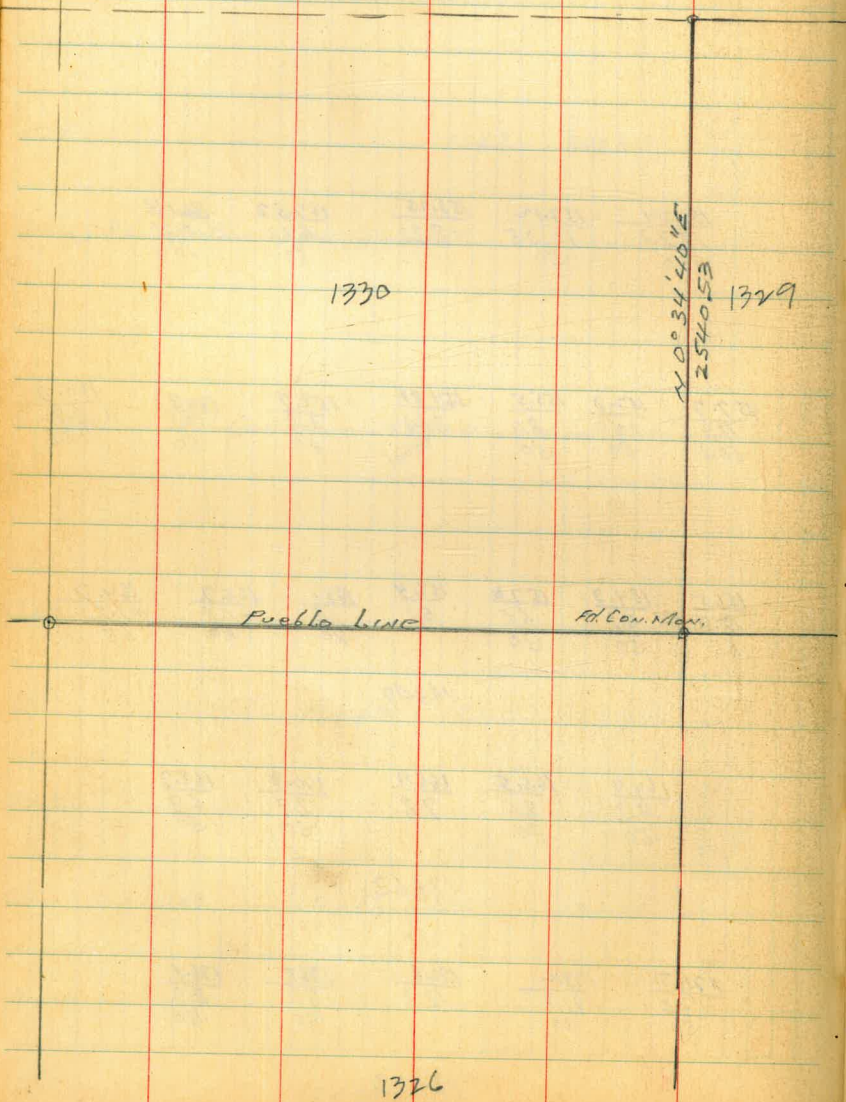
184.79

184.79

Location of open ditch Sewer thru
 Pueblo Lots 1326-1327-1329, Sargent
 From Camp Colton Septic Plant

Indexed
 C.S.K.

C. Moore
 J. Wintermeyer
 H. Moore
 3-20-45.



Pueblo Line Tie to Edelweiss St.
in Sorrento at Old Sorrento Stone

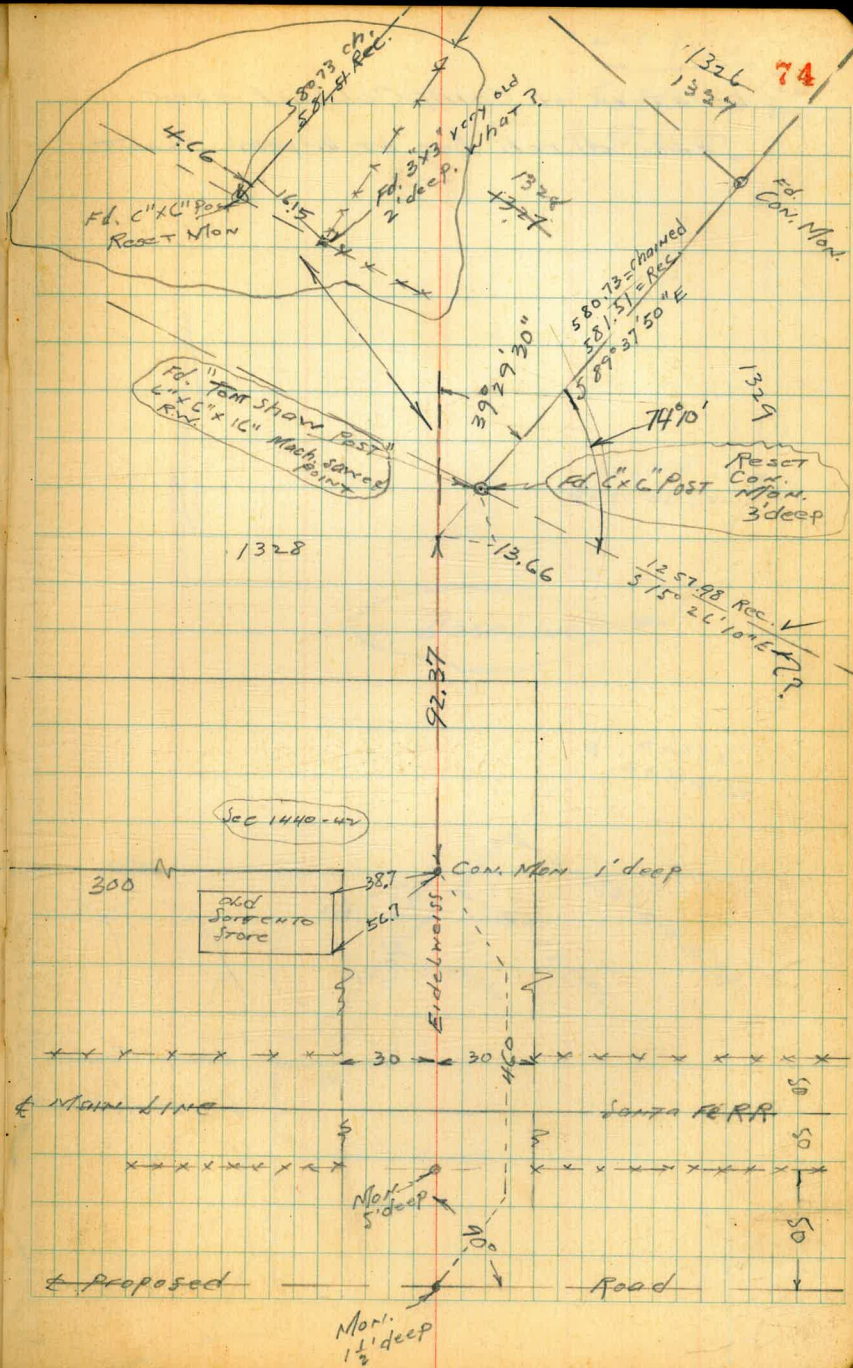
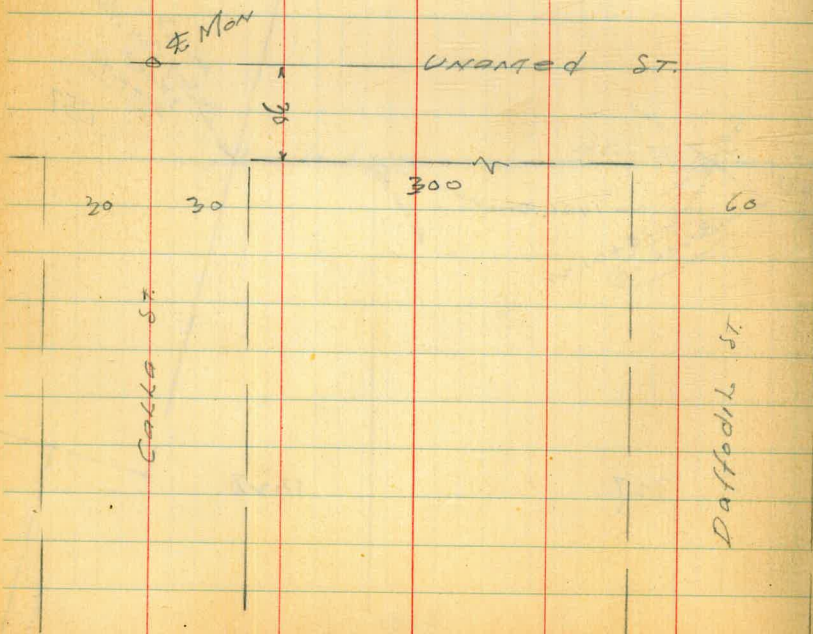
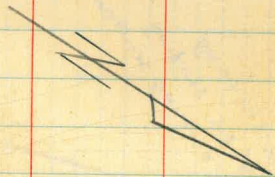
C. Moore
Semmler Meyer
W. Moore

3-20-45

See F.B. 1440 p. 42-46

" " 1339 p. 61

" " 1498 p. 11

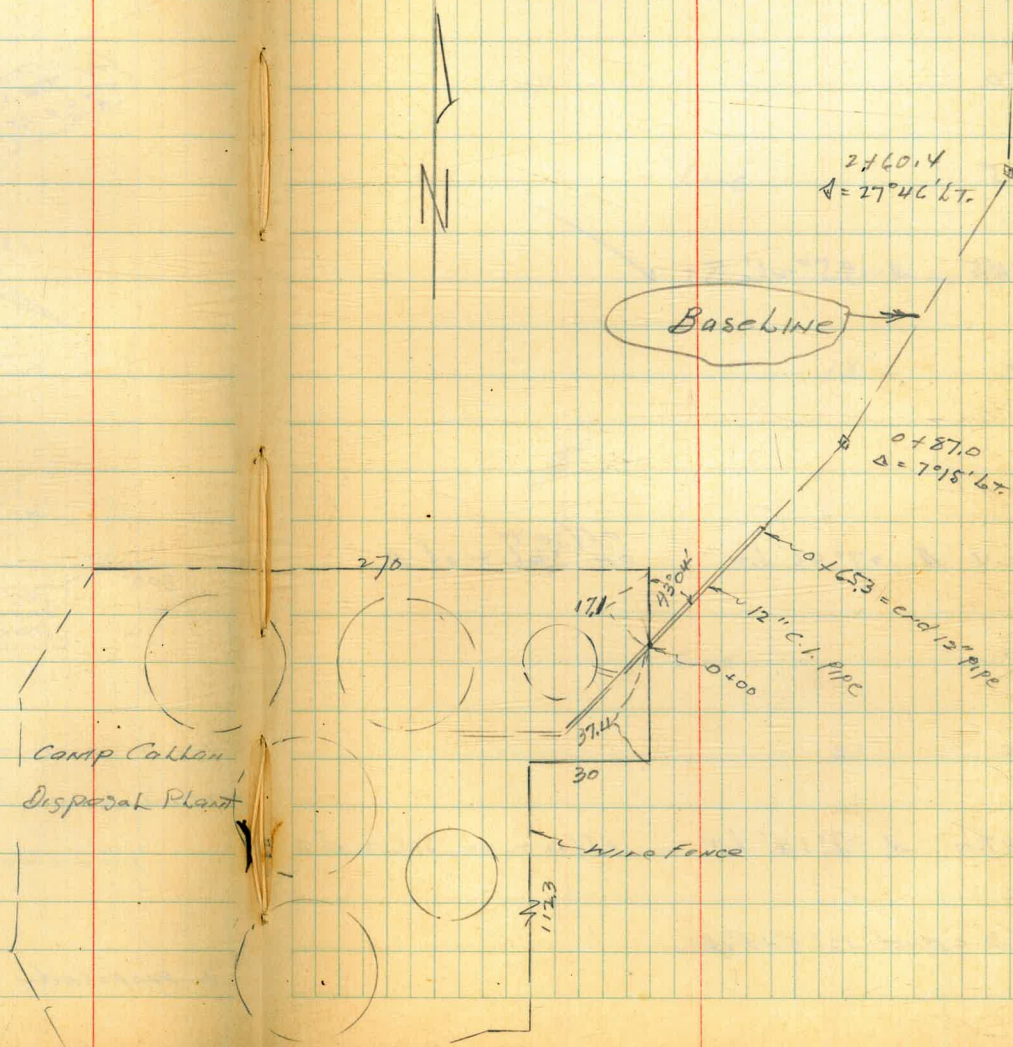


Location of Camp Callan open
sewer ditch Beg. at Disposal Plant.

See P. 76

5+54.5
A 95°26'RT

75



LOCATION DITCH

7+40

7+16

4+90

6+50

6+05

5+54.5 Δ 95° WL RT ✓

5+00

3+30

2+60.4 Δ 27° 46' LT ^{offset} ON SPLIT of Δ

2+10

1+50

0+87.0 Δ 7° 15' LT ^{offset} ON SPLIT of Δ

0+65.3 = end 12" C.I. Pipe

LOCATION of ditch Baseline
LT.

LOCATION DITCH
RT.

76

15'

Line

10'

17'

Line

40 ON SPLIT Δ

18'

8'

31'

Line

21'

16'

Line

16+00

15+68.76 A 8° 58' LT

15+42

14+83

13+83

13+01.12 A 18° 53' LT

11+96

11+30

10+69

9+94.62 A 1° 50' LT

8+95

8+60

7+96.4 A 12° 32' LT

LT

Baseline

Rt

67

72 SPLIT

70

85

57

29 SPLIT

3

28

12

18 SPLIT

8

32

20' on SPLIT

	LT	Baselines	RT
30+100	64		
29+100	25		
+70		Line	
+50			16
28+01.22 = ^{Set 2x2 Hub} Pebboline, sketch p. 73			29
27			60
26			34
25			46
24+100			45
+80			36
22+08.65 = A $637'$ LT.			75 Split
22			65
+65			80
+45			40
+15			60
21			56
+70			20
+45			20
20+20			30
+75			20
19			58
18+93.6 P.O.T.			
+60			56
18			55
+50			40
17			60

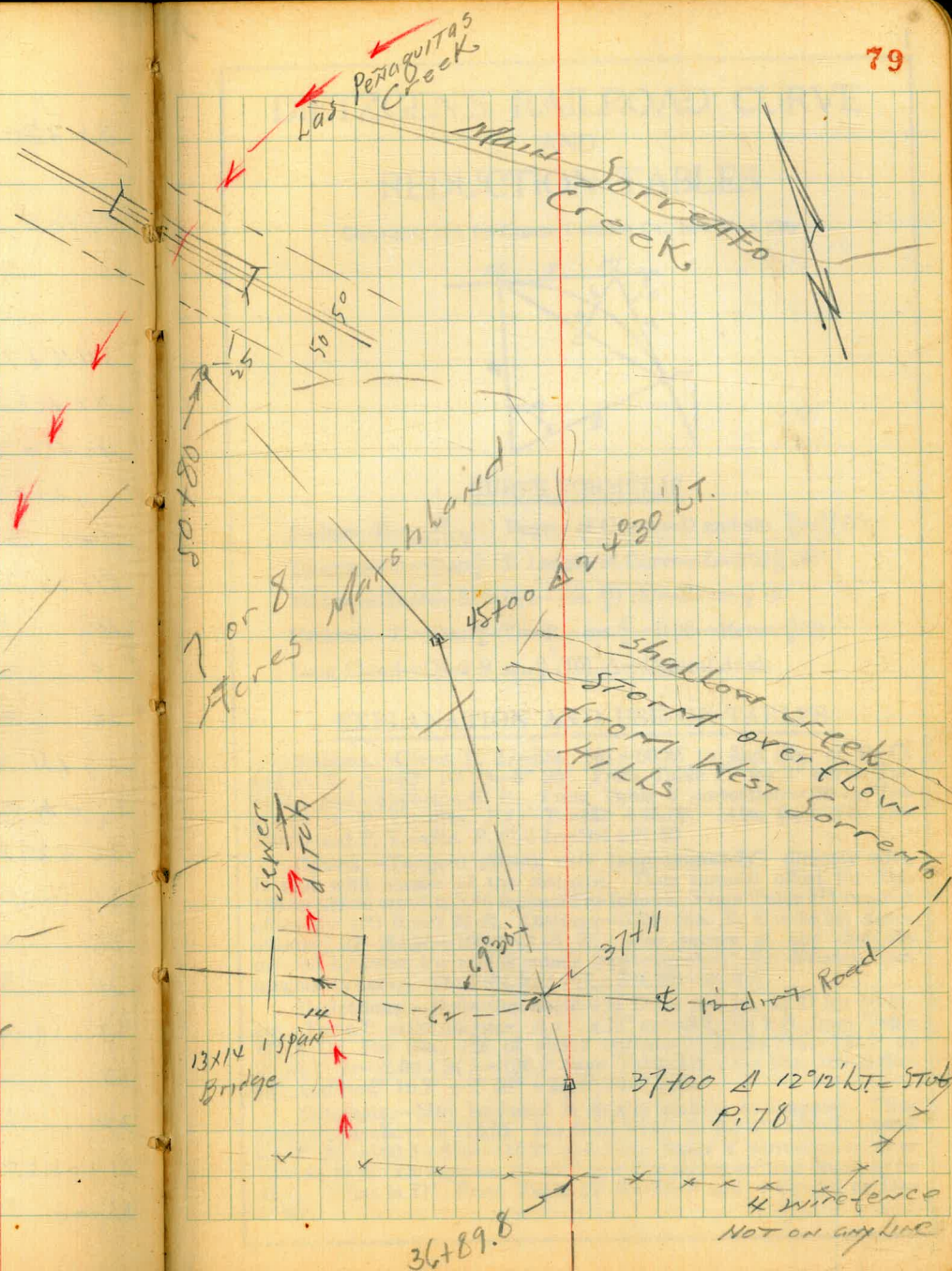
	LT	Baselines	RT
50+80 Int. of Main Los Peñaguitas Creek approx. 25' W. of W. R.R. ROW at S. end of R.R. Bridge			78
45+100 $\Delta 24^{\circ}30'$ LT. = Sour submerged Land			BOTTOM
44+77 End Creek = Fans out here and Submerges about 10 Acres			
43+100			STREAM 20' RT only 3" deep
42+50 ditch here fans out to Marsh			ON ANY LINE
+29 cross Meandering Stock Fence			29 RT.
41+33		Line	
40		20	
39		75	
38		64	
37+11 E 1/2 road. 62 RT			37+20 beg. Cult. Field
37 = $\Delta 12^{\circ}12'$ LT. 68			stub
36+89.8 cross 4 wire fence			
36		45	
35		29	
34		20	
33+19.19 = $\Delta 29^{\circ}37'$ LT			
33		28	
32		18	
31+08.55 = $\Delta 11^{\circ}49'$ RT			
31+100		74	

Camp Callan Sewer
Open ditch

0+87	6' wide	4' deep
5+00	12 "	8 "
9+00	16 "	10 "
15+00	25 "	20 "
20+00	30 "	24 "
28+00	25 "	18 "
33+00	10 "	5 "
37+00	6 "	4 "
42+00	4 "	2 "
45+00	Fans out into Marsh	

Beg. at 16+00 Good
tillable soil on
either side of Wash.

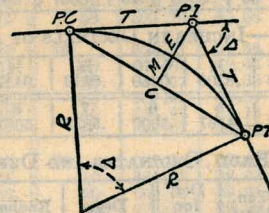
This Wash due mostly
to storm water erosion
in past.



335.52
48
587.52

DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

Copyright, 1914, by Eugene Dietzgen Co., New York City



3435.52
3472.2
715
780
775

CURVE FORMULAS

- Radius= $R = \frac{50}{\sin \frac{D}{2}}$ (1) Degree of Curve= D and $\sin \frac{D}{2} = \frac{50}{R}$ (2)
 Tangent= $T = R \tan \frac{\Delta}{2}$ (3) Length of Curve= $L = 100 \frac{\Delta}{D}$ (4)
 Middle ordinate= $M = R(1 - \cos \frac{\Delta}{2})$ (5) $= R \text{vers } \frac{\Delta}{2}$ (6)
 External= $E = T \tan \frac{\Delta}{4}$ (7) $= R + \cos \frac{\Delta}{2} - R$ (8) $= R \text{exsec } \frac{\Delta}{2}$ (9)
 Long Chord= $C = 2 R \sin \frac{\Delta}{2}$ (10) $\Delta =$ Central Angle

EXPLANATION AND USE OF TABLES

Stations.—Given P. I.—Sta. 161+60.35 to find Sta. of P. C. and P. T. $\Delta = 62^\circ 10'$ $D = 8^\circ 20'$. From Table IV for 1° curve $T = 3454.1$ and $\div 8\frac{1}{3} = 414.49$ ft. From Table V correction = .36 or $T = 414.85$ ft. P. C. = Sta. P. I. - $T = 157 + 45.50$. Also from (4) $L = 746.00$ and P. T. = Sta. P. C. + $L = 164 + 91.50$.

Offsets.—Tangent offsets vary (approximately) directly with D and with square of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent offset for 100 ft. = 7.27 ft. Distance = $158 - \text{Sta. P. C.} = 54.50$, hence offset = $7.27 \frac{54.50}{100} = 2.16$ ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $\frac{54.50^2}{2 \times 688.26} = 2.16$ ft.

Deflections.—Deflection angle = $\frac{1}{2} D$ for 100 ft., $\frac{1}{4} D$ for 50 ft., etc. For c ft. = (in minutes) $.3 \times C \times D^\circ$ or = defl. for 1 ft. from Table III $\times C$. For Sta. 158 of above curve = $.3 \times 54.5 \times 8\frac{1}{3} = 136.2'$ or $2^\circ 16.2'$, or = $2.50 \times 54.5 = 136.2'$ from Table III. For Sta. 159 deflection angle = $2^\circ 16.2' + 8^\circ 20' \div 2 = 6^\circ 26.2'$, etc.

Externals.—May be found in similar manner to tangents. Thus E for curve above is 115.37. For from Table IV for 1° curve $E = 960.6$ for $8^\circ 20' = 960.6 \div 8\frac{1}{3} = 115.27$ and from Table V correction = .10 or $E = 115.37$ ft. Or suppose $\Delta = 32^\circ$ and E is measured and found to be 42 ft. What is D ? From Table IV $E = 230.9$ and $\div 42 = 5.5$ or $D = 5^\circ 30'$.

TABLE VIII.—NATURAL TRIGONOMETRICAL FUNCTIONS.

Table with columns for Angle, Sine, Tan, Cotg, and Cosin, split into two sections for angles 0-90 and 90-180.

TABLE VIII.—NATURAL TRIGONOMETRICAL FUNCTIONS.

Table with columns for Angle, Sine, Tan, Cotg, and Cosin, split into two sections for angles 180-270 and 270-360.

Handwritten numbers 718 and 282 at the top of the right page.

Handwritten numbers 118, 289, and 416 at the bottom of the right page.

107
 235
 83.5
 1376.1
 1157.4
 217
 147

1225
 163
 13.41
 12
 15.1

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1 1/2
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9 + (20 - 16) ÷ 2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.