

1151

DIETZGEN
TRADE MARK

ENGINEERS

LEVEL BOOK

No. 210

1151

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

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 $1\frac{1}{2}$ see inside of back cover.

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Park Row

Culvert

157.70

00: s.d. Park Row

152.40

Δ +35.08

TP

3.87

154.27

7.3

150.40

7.30

150.40

0+82.28

4.04

150.23

1+29.49

5.11

149.16

1+76.70

5.35

148.92

W. H. Ivanhoe

R+23.91

5.41

148.86

cl. line Ivanhoe

cl

5.29

148.94

R+27.76

gutter 5.24

148.33

2+46.20

cl

5.87

14 W. H. Ivanhoe

gutter 6.52

147.75

Park Row Grades

N. line

N. cl

s. cl

S. line

00

W. H. Torrey Roadens

152.87

153.12

+4 W=00

W. H. Torrey, 04 N

154.29

154.04

52.88

+50

54.14

52.52

1+00

53.86

52.16

1+22B

153.50

153.25

152.15

152.40

20

1+50

53.86

52.90

R+00

54.51

54.50

End don N

R+18

154.75

154.50

End don S

R+24

155.00

155.25

157.7

50

cl Grades B

3/12/26 1

N

54.14

53.82

53.50

53.86

54.51

3.6

3.9

4.2

3.8

3.2

4.1

4.1

3.9

3.8

3.4

-0.5

-0.2

+0.3

0.0

-0.2

S

52.88

52.52

52.16

52.00

52.90

54.50

4.8

5.2

5.5

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3.2

5.5

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6.4

6.0

5.7

3.8

-0.7

-0.7

-1.1

-0.3

-0.9

-0.6

-0.8

-0.9

-1.4

-0.7

-1.2

-0.8

Lot 14

Lot

Line

Lot 11

Lot 12

1.85

188.83

154.90

cl

culvert

188.83

154.90

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culvert

188.83

154.90

cl

culvert

cb Elevations Coast Blv 3/19/26
B/K

EM	0.19	29.26	29.07	55.0 BY 15 Alameda Blv
00 th sec of 00				
BOOK 1147-25		9.60	19.66-1927	Book 114 Page 25
750' N on cb		9.40	19.8	
110' N " "		9.25	20.0	
150' N " "		9.05	20.2	
200' N " "		8.85	20.4	
250' N		8.65	20.6	
289' N P.C.		8.48	20.8	
	300' N			
cb		8.44	20.8	
gutter		9.2	20.1	
15' W		9.5	19.8	
30' W		9.1	20.2	
	350' N			
cb		8.22	21.1	
gutter		9.3	20.0	
15' W		9.2	20.1	
30' W		9.0	20.3	

Plotted
BB 3/19/26

Resurvey OK

29.26

400' W

(1/2)

cb		7.98	21.28
gutter		9.1	20.2
15' W		8.9	20.4
30' W		8.6	20.7
T.P.	1143	32.71	7.98
		450' W	
cb		10.60	21.11
gutter		11.6	21.1
15' W		11.8	20.9
30' W		11.8	20.9
	500' N		
cb		9.61	23.10
gutter		10.8	21.9
15' W		10.9	21.8
30' W		10.6	22.1
	550' N		
cb		8.75	23.96
gutter		10.0	22.7
15' W		9.7	23.0
30' W		9.6	23.1

32.71
600' Non cl

cl	7.21	25.0
gutter	8.6	24.1
15' w	8.6	24.1
30' w	7.9	24.8

6.50' N

cl	6.66	26.05
gutter	7.2	25.5
15' w	7.3	25.4
30' w	6.8	25.9

6.62' N - catch Basin
10' emb pipe W. emb 35' W. - L cl

cl	6.25	26.46
grating	7.3	25.41

700' N

cl	4.64	28.05
gutter	5.5	27.2
15' w	5.7	27.0
30' w	5.4	27.3

To be raised
4' in

32.71
750' N

cl	2.47	30.24
gutter	3.5	29.2
15' w	3.5	29.2
30' w	3.4	29.3

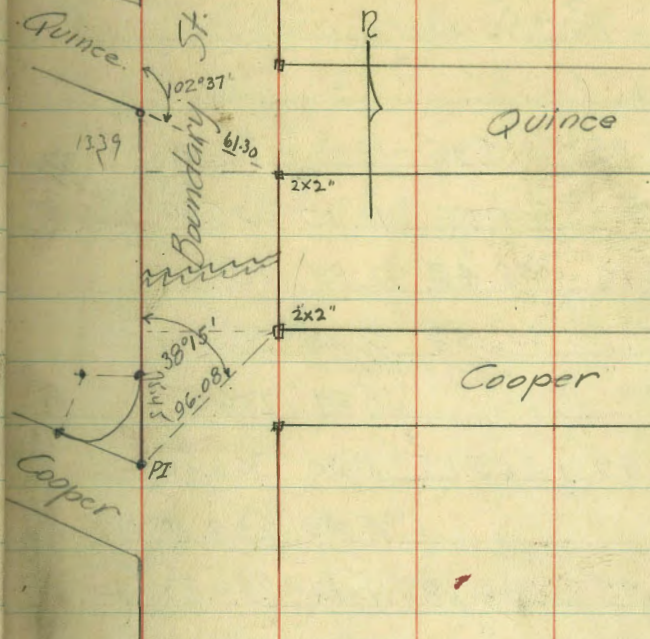
768' N P.C.C. 146 C.B.S.

cl	1.72	30.99
gutter	2.5	30.2
15' w	2.5	30.2
30' w	2.3	30.4

P.P.C. in P.B.S.

cl	0.17	32.54
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Ties at Boundary Street
between Carmel Hgths Extension
and City Heights.



B.M. - Redwood & Felton - NW Brass Plug 313.01
 B.M. - Redwood & 33rd N.W. " " 311.61

Cross Sections - Carmel Heights Extension

Pacific Bldg. Co.

Tom J. Allen. April 9, 1926.

	+		-	Elev.	
BM	2.95	315.96		313.01	Rdwood & Felton - Br. Plug. N.W. Cor.
BM	0.00	305.86	10.10	305.86	Pipe N.W. Lot 4 - BKA
TP	9.16	302.43	12.59	293.27	
BM	7.11	302.56	6.98	295.45	Pipe NE Lot 1 BK C ✓
BM			5.91	296.65	" NE Lot 1 - BK D
BM	4.49	305.15	1.90	300.66	Lot Stake - Lot 1 - BK E
BM			5.89	299.26	Pipe NE Lot 1 - BK F
TP	3.05	296.78	11.42	293.73	Lot Stake S.E. Lot 18 - BK E
BM			3.82	292.96	Pipe S.W. Lot 12 - BK E
BM	11.25	300.74	7.29	289.49	Pipe S.E. Lot 39 - BK F
BM	9.44	310.15	0.03	300.71	" SW Lot 30 - BK F
BM			1.79	308.36	Top Fire Hyd. NE Palm & Felton
TP	8.46	315.29	3.32	306.83	E Curb. Felton
BM			2.35	312.94	Rdwood & Felton - Br. Plug. N.W. Cor.

Boundary St.

BM.	6.72	305.98	299.26
+ Boundary St.			
Sect. A S.E. Cor. Lot 1, BK F		306.0	(PI)
W. R.	7.25	298.73	✓
W. Curb	7.0	299.0	✓
1/4	6.85	299.13	
±	6.45	299.55	✓
1/4	6.50	299.5	✓
E. Curb	6.20	299.8	✓
E. R.	5.90	300.1	✓
45' north			
W. R.	6.9	299.1	✓
Curb	6.50	299.5	✓
1/4	6.50	299.5	✓
±	5.95	300.03	✓
1/4	5.7	300.5	✓
E. Curb	5.4	300.6	✓
E. R.	5.0	301.0	✓

NE. Cor Lot 1, BK F		305.98	5
		306.0	
W. R.		6.70	299.3 ✓
W. Curb		6.25	299.73 ✓
1/4		6.20	299.8 ✓
±		5.70	300.3 ✓
1/4		5.50	300.5 ✓
E. Curb		5.0	301.0 ✓
E. R.		4.60	301.4 ✓
SW. Cor Lot 22, BK E. (PI)			
W. R.		4.60	301.4 ✓
Curb		4.70	301.3 ✓
1/4		4.90	301.1 ✓
±		5.25	300.73 ✓
1/4		5.9	300.1 ✓
Curb		5.95	300.05 ✓
E. R.		6.30	299.7 ✓
E. C. Lot 22, BK E.			
W. R.		6.00	300.0 ✓
Curb		5.80	300.2 ✓
1/4		5.40	300.6 ✓

305.70

306.0

±	5.20	3008	✓
1/4	5.00	3010	✓
Curb	4.80	3012	✓
E. R.	4.50	3015	✓

N.E. Cor Lot 22, BK E

W. R.	6.00	3009	✓
Curb	5.70	3003	✓
1/4	5.50	3005	✓
±	5.20	3008	✓
1/4	5.20	3008	✓
Curb	5.00	3010	✓
E. R.	4.85	30113	✓
10'	4.85	3010	✓

50' north

W. R.	5.85	30013	✓
Curb	5.60	3004	✓
1/4	5.80	3007	✓
±	5.50	3005	✓
1/4	5.30	3007	✓
Curb	5.20	3008	✓
E. R.	5.25	3007	✓
E+10'	5.25	3007	✓

305.88
306.00

6

N.E. cor. Lot 1, BK. E

W. R.	5.75	30013	✓
Curb	5.55	30013	✓
1/4	6.20	1998	✓
±	5.70	3003	✓
1/4	5.80	3001	✓
Curb	5.85	30013	✓
E. R.	6.00	300 ⁰⁰	✓
E+10	5.80	3002	✓

S.E. cor. Lot 24, BK. D (PE)

W. R.	6.40	1996	✓
Curb	6.20	1918	✓
1/4	6.25	19913	✓
±	6.20	1998	✓
1/4	6.50	1995	✓
C.	6.65	1993	✓
E. R.	6.90	1991	✓
E+10	7.20	1998	✓

N.E. Cor Lot 24, BK. D.

W. R.	8.05	1972	✓
Curb	8.40	1976	✓

+ 305.98
305.98
306.20
-

1/4		9.30	✓967	✓
±		9.25	✓9673	✓
1/4		9.80	✓964	✓
Curb.		10.65	✓9533	✓
E. Pl. E+10 H		11.40	✓946	✓
	5.30	1200	✓960	
		10.47	295.51	
	50' north.	300.8		
W. Pl.		3.60	✓977	✓
C.		4.00	✓968	✓
1/4		5.10	✓957	✓
±		5.20	✓956	✓
1/4		6.10	✓942	✓
C.		7.30	✓935	✓
E Pl E+10		8.20	✓946	✓
		9.20	✓956	
	N.E. Lot 1, Bk D			
W Pl.		4.16	296.65	
Curb		5.0	✓958	✓
1/4		6.35	✓946	✓

300.81 7

±		6.75	✓9406	✓
1/4		7.30	✓935	✓
C.		8.80	✓940	✓
E. Pl. E+10		10.00	✓908	✓
		11.30	✓895	
	S.E. Cor. Lot 12 - Bk. C (PE)			
W. Pl.		4.60	✓962	✓
C.		6.90	✓939	✓
1/4		7.10	✓937	✓
±		7.40	✓934	✓
1/4		7.80	✓930	✓
C.		10.40	✓90	✓
E. Pl. E+10 +10		11.40	✓994	✓
		12.90	✓884	
	50' north.	14.30	✓865	
W. Pl.		4.50	✓963	✓
C.		5.20	✓951	✓
1/4		6.50	✓943	✓
±		7.40	✓935	✓
1/4		8.0	✓928	✓
C.		10.50	✓902	✓
E. Pl. 10 20		11.70	✓891	✓
		13.00	✓875	
		14.30	✓865	

+

-

50' north. 300.81

W P.	4.50	2963 ✓
C.	5.30	2955 ✓
1/4	7.10	2932 ✓
£	7.00	2938 ✓
1/4	8.05	2976 ✓
C	10.30	2905 ✓
E P. 70	11.50	2893 ✓
✓	13.00	2878 ✓
✓	14.50	2863 ✓
N.E. Cor. Lot 1, Bk. B		
W. P.	5.40	2954 ✓
C	6.15	2966 ✓
1/4	8.00	2928 ✓
£	8.50	2923 ✓
1/4	9.15	2916 ✓
C	11.65	2891 ✓
E P. 11	13.25	2875 ✓
✓	14.60	2862 ✓
✓	16.30	2835 ✓
B.M.	1.69	297.14
		295.45

297.14

+

SE. Cor. Lot 10, Bk. B (PI)

W P.	3.30	2938 ✓
C.	4.80	2943 ✓
1/4	6.25	2909 ✓
£	6.55	2905 ✓
1/4	7.80	2893 ✓
C	10.20	2869 ✓
E P. 10	11.50	2856 ✓
✓	13.00	2841 ✓
✓	14.50	2826 ✓
50' north.		
W P.	7.20	2899 ✓
C	8.10	2890 ✓
1/4	10.80	2863 ✓
£	10.70	2864 ✓
1/4	11.40	2852 ✓
C	13.65	2834 ✓
E P. 10	15.50	2816 ✓
✓	16.30	2804 ✓
✓	17.25	2791 ✓
TP	0.88	285.77
		284.89

285.77 785⁸

50' north

W.P.	4.55	✓812 ✓
C	5.20	✓806 ✓
1/4	5.80	✓800 ✓
E	6.60	✓792 ✓
1/4	7.40	✓784 ✓
C	8.40	✓774 ✓
E.P.	9.60	✓762 ✓
10	10.80	✓750 ✓
20	12.60	✓732 ✓

25' north

W.P.	14.0	✓718 ✓
C	14.0	✓718 ✓
1/4	13.7	✓712 ✓
E	14.1	✓712 ✓
1/4	15.2	✓706 ✓
C	18.3	✓675 ✓
E.P.	20.5	✓653 ✓
10	22.00	✓638 ✓
20	23.00	✓628 ✓

30' north
Creek Bottom

W.P.	30.4	✓554 ✓
C	31.0	✓548 ✓

285⁸

1/4	32.1	✓537 ✓
E	32.0	✓538 ✓
1/4	31.0	✓548 ✓
C	32.0	✓538 ✓
E.P.	33.3	✓545 ✓

13' north

W.P.	23.0	✓648 ✓
C	28.0	✓578 ✓
1/4	29.7	✓561 ✓
E	32.0	✓538 ✓
1/4	32.7	✓531 ✓
C	33.2	✓516 ✓
E.P.	34.2	✓516 ✓
10	35.00	✓508 ✓
20	33.2	✓516 ✓

(P.C.) 17' north

W.P.	12.5	✓83 ✓
C	13.2	✓746 ✓
1/4	13.5	✓743 ✓
E	13.5	✓743 ✓
1/4	14.4	✓714 ✓

E Cor. Lot 1 - BK B. ~~X~~

	285.77	$\frac{285}{8}$	
E. Curb	13.0	2708	✓
E. P ₁₇	15.3	2708	✓
W	16.8	2696	✓
W	17.0	2688	✓
25' north N.E. Cor. Lot 10 B (P.I.)			
W P ₁₂	7.5	2783	✓
C	7.6	2784	✓
1/4	8.3	2775	✓
S	8.8	2770	✓
1/4	9.6	2762	✓
C	10.2	2756	✓
E. P ₁₀	10.8	2750	✓
W	11.4	2742	✓
W	12.1	2737	✓
28' north			
W P ₁₂	0.0	2758	✓
C	1.60	2762	✓
1/4	2.10	2757	✓
S	2.40	2754	✓
1/4	3.90	2819	✓
C	4.70	2811	✓
E. P ₁₀	4.80	2810	✓
TP ₂₀	6.08	2778	✓
11.33	297.09	2790	✓
	0.01	285.76	

	297.09	$\frac{297}{1}$	
E. Cor. Lot 8 - Bk. A (P.C.)			
W P ₁₂	6.40	2902	✓
C	8.00	2891	✓
1/4	9.30	2878	✓
S	10.00	2872	✓
1/4	11.90	2854	✓
C	13.70	2834	✓
E. P ₁₀	14.80	2823	✓
W	15.80	2813	✓
W	16.60	2805	✓
50' north			
W. P ₁₂	3.70	2932	✓
C	5.20	2919	✓
1/4	8.20	2889	✓
S	7.85	2892	✓
1/4	9.70	2872	✓
C	11.10	2860	✓
E. P ₁₀	13.10	2840	✓
W	14.00	2831	✓
W	15.20	2819	✓
N.E. Cor. Lot 1, Bk. A			
W. P ₁₂	2.30	2948	✓
C	3.55	2935	✓

Boundary St.

11

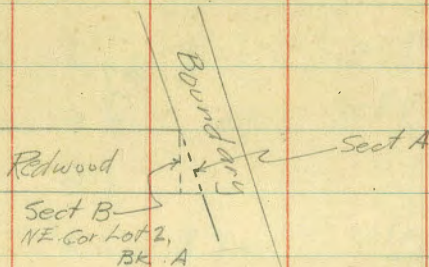
	297 ¹		
1/4	5.70	2914	✓
E.	5.60	2915	✓
1/4	8.00	2891	✓
C	9.90	2872	✓
E. P. 10 20	12.20	2849	✓
	13.70	2834	
62' north - (North Side Redwood St.)	15.20	2819	
W. P.	1.20	2959	✓
C	3.00	2941	✓
1/4	5.55	2915	✓
E.	6.00	2911	✓
1/4	7.10	2900	✓
C	9.20	2872	✓
E. P. 10 20	10.90	2862	✓
	12.10	2850	
	14.10	2830	

end Boundary

Starting at Boundary St. and working west.

Sect A.

	297.09	<u>297</u>	
S. P.		2.30	2948 ✓
C		1.80	2953 ✓
1/4		3.40	2937 ✓
E		2.70	2941 ✓
1/4		1.70	2954 ✓
C		2.40	2947 ✓
N. P.		1.20	2959 ✓
TP	11.22	307.80	0.51 296.58
Sect B. N.E. Cor Lot 2, Bk A			
S. P.		<u>307.8</u>	
		10.2	2976 ✓
C		10.0	2978 ✓
1/4		9.6	2984 ✓
E		11.4	2964 ✓
1/4		10.3	2975 ✓
C		10.7	2971 ✓
N. P.		9.0	2968 ✓



55' west N.E. Cor. Lot 3, Bk A

	307.8		
S. P.		5.4	3011 ✓
C		5.2	3016 ✓
1/4		5.3	3015 ✓
E		5.6	3011 ✓
1/4		5.4	3014 ✓
C		6.2	3016 ✓
N. P.		4.8	3030 ✓

55' west N.E. Cor. Lot 4, Bk A

S. P.		3.3	3015 ✓
C		3.2	3016 ✓
1/4		3.0	3018 ✓
E		3.3	3015 ✓

Redwood.

307.80

13

1/4	307.8	3.0	3068 ✓
C		3.6	3042 ✓
N. PL.		2.3	3055 ✓
55' west. N.W. Lot 4 Bk A (PZ)			
S. PL.		1.7	3061 ✓
C		1.3	3065 ✓
1/4		1.5	3063 ✓
⊥		1.7	3061 ✓
1/4		1.3	3065 ✓
C		2.1	3052 ✓
N. PL.		0.30	3075 ✓
B.M.	9.85	315.70	1.95 305.85
50' west. (west side M & Kinley St.)			
S. PL.		315.7	8.3 3072 ✓
C		2.1	3076 ✓
1/4		7.8	3078 ✓
⊥		8.0	3072 ✓
1/4		7.8	3072 ✓

C	315.7	8.20	3075 ✓
N. PL.		7.20	3085 ✓
50' west.			
S. PL.		7.70	3080 ✓
C		7.30	3084 ✓
1/4		6.85	3088 ✓
⊥		7.80	3079 ✓
1/4		7.20	3085 ✓
C		6.60	3091 ✓
N. PL.		5.80	3099 ✓
50' west.			
S. PL.		7.80	3079 ✓
C		7.30	3082 ✓
1/4		7.00	3082 ✓
⊥		7.20	3085 ✓
1/4		7.0	3062 ✓
C		6.1	3096 ✓
N. PL.		5.8	3099 ✓

315.70

50' west

S. PL.	$\frac{315.7}{10.80}$	3089	✓
C.	9.70	3060	✓
$\frac{1}{4}$	8.10	3076	✓
$\frac{1}{4}$	7.4	3083	✓
$\frac{1}{4}$	6.7	3090	✓
C	6.8	3089	✓
N. PL.	6.3	3094	✓

50' west.

S. PL.	6.80	3089	✓
C	6.65	3090	✓
$\frac{1}{4}$	6.60	3091	✓
$\frac{1}{4}$	6.50	3094	✓
$\frac{1}{4}$	6.30	3094	✓
C	6.00	3092	✓
N. PL.	5.25	3104	✓

50' west

S. PL.	5.10	3106	✓
C.	4.85	3108	✓

Redwood J.

14

 $\frac{315.7}{4.70}$

$\frac{1}{4}$	3110	✓	
$\frac{1}{4}$	5.30	3104	✓
$\frac{1}{4}$	5.10	3106	✓
C	4.60	3114	✓
N. PL.	4.15	3118	✓

50' west.

S. PL.	4.60	3111	✓
C	4.45	3114	✓
$\frac{1}{4}$	4.35	3113	✓
$\frac{1}{4}$	4.50	3114	✓
$\frac{1}{4}$	4.50	3114	✓
C	4.10	3116	✓
N. PL.	3.90	3118	✓

50' west.

S. PL.	3.90	3118	✓
C	3.80	3119	✓
$\frac{1}{4}$	3.60	3121	✓
$\frac{1}{4}$	3.90	3118	✓
$\frac{1}{4}$	3.65	3120	✓

	315.7		
C.	3.40	3123	✓
N. PL.	2.95	3127	✓
50' west.			
S. PL.	3.35	3123	✓
C.	3.00	3127	✓
1/4	3.00	3127	✓
E	3.30	3122	✓
1/4	3.10	3126	✓
C.	2.60	3131	✓
N. PL.	2.40	3133	✓
50' west.			
S. PL.	3.00	3127	✓
C.	2.85	3128	✓
1/4	2.55	3131	✓
E	2.80	3129	✓
1/4	2.60	3131	✓
C.	2.45	3132	✓
N. PL.	2.00	3132	✓

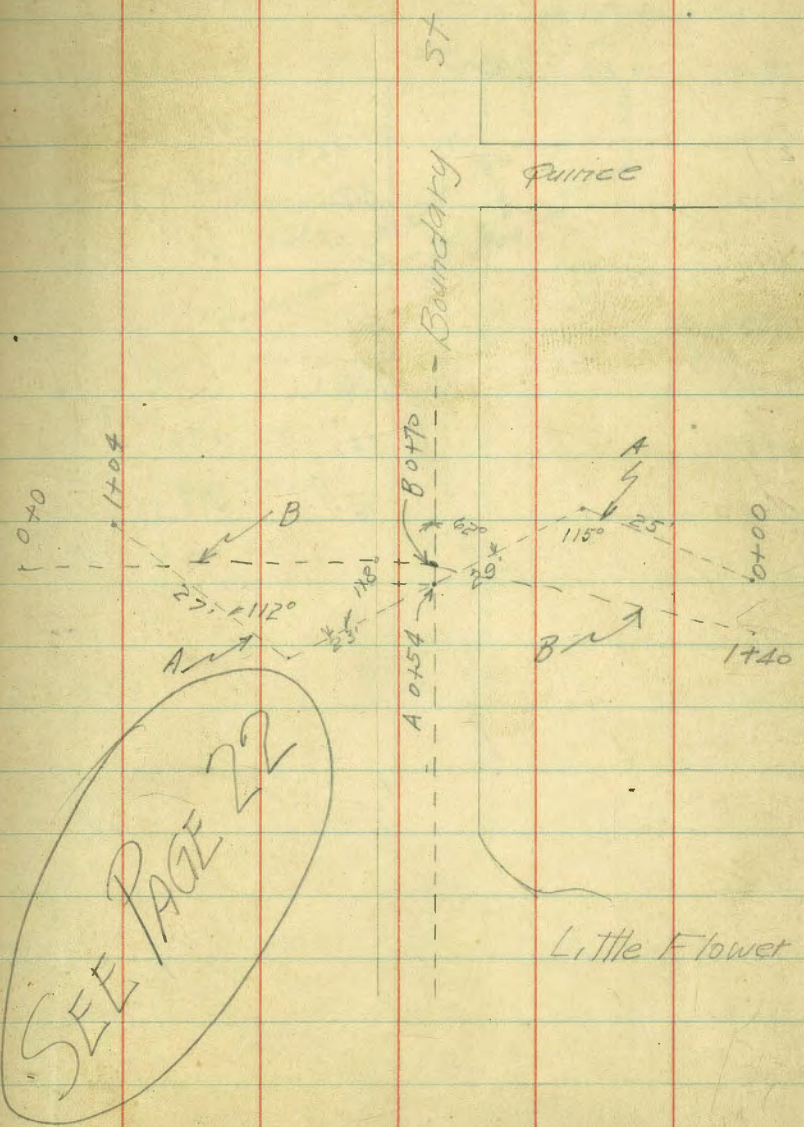
	315.70		
50' west.	315.7		
S. PL.	2.95	3129	✓
C.	2.70	3130	✓
1/4	2.60	3131	✓
E	2.95	3127	✓
1/4	2.60	3131	✓
C.	2.40	3133	✓
N. PL.	2.00	3137	✓
50' west.			
S. PL.	3.25	3124	✓
C.	3.20	3125	✓
1/4	3.05	3126	✓
E	3.20	3125	✓
1/4	3.20	3125	✓
C.	3.00	3127	✓
N. PL.	2.30	3132	✓
B.M.	2.73	312.97	✓

{ E.L. Felton
end Redwood.

Cross Sections for Culvert on
Boundary St between Quince and
Little Flower.

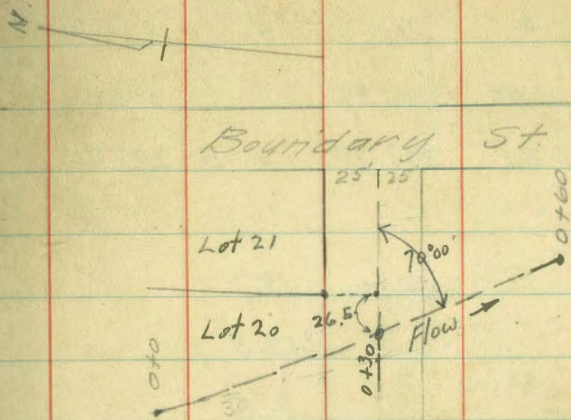
B	265	✓
1+30	4.1	✓559
1+40	3.3	✓567

	+	HI.	-	Elev.
B.M.	0.01	295.46		295.45
	0.45	283.28	12.63	282.83
	0.32	271.05	12.55	270.73
	0.71	260.00	11.76	259.29
A	B			
0+0	0+0	7.6	4.3	✓574
0+10	0+15	11.0	4.5	✓596
0+20	0+20	10.0	4.9	✓500
0+25 Angle	0+30	9.6	5.2	✓502
0+35	0+40	7.3	5.6	✓549
0+45	0+50	5.7	6.4	✓543
0+54 ⊕	0+60	5.1	6.6	✓549
0+66	0+70 ⊕	5.4	6.9	✓504
0+70 ⊕	0+80	5.7	7.3	✓563
0+87	0+90	3.0	7.9	✓570
0+97	1+00	1.4	8.5	✓586
	1+10	1.3		✓587
1+04	1+20	3.1	9.5	✓569



On Casper between Boundary
St and Angle Point on Cooper

	+	HI	-	Elev
B.M.	0.27	29400		293.73
0+0			9.7	2843 ✓
0+10			8.7	2853 ✓
0+20			8.3	2857 ✓
0+30 ±			11.1	2849 ✓
0+40			13.2	2808 ✓
0+50			14.5	2795 ✓
0+60			15.7	2783 ✓



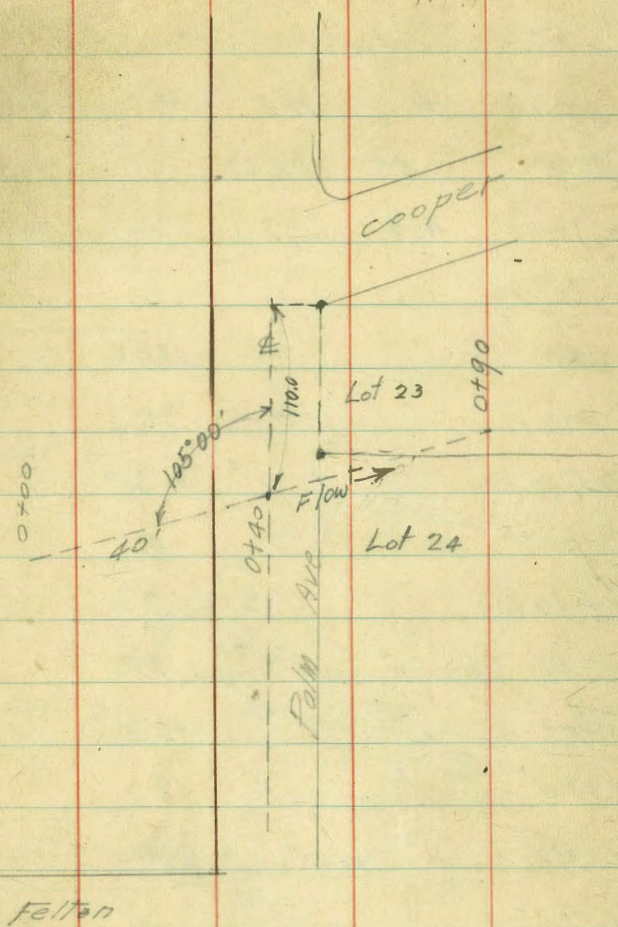
n Casper St
North line of St
35' West from the east
COR of 20
South line of St
15' West of East cor
of Lot 4

On Palm bet. Cooper and Felton.

	+	HI	-	ELEV
B.M.	0.01	308.37		308.36
	1.95	297.77	12.55	295.82
0+0			12.7	
0+10			13.5	
0+20			11.6	
0+30			5.5	
0+40 $\frac{1}{2}$			5.2	
0+46			5.4	
0+54			10.1	
0+70			12.5	
0+80			16.1	
0+90			17.0	

108.40
110
119.90

18

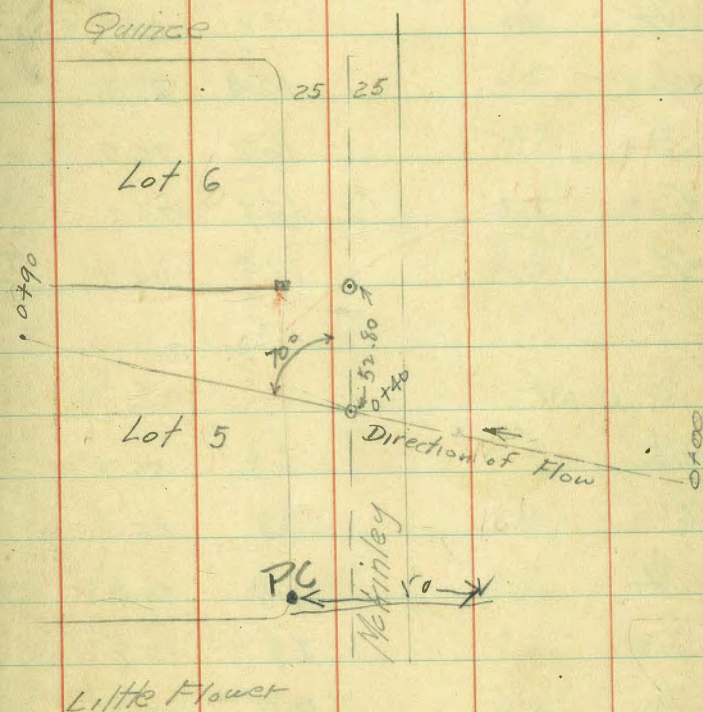


On McKinley bet. Quince and
Little Flower.

1.47
1.52
2.80

	+	HI	-	Elev
B.M.	2.55	308.41		305.86
	4.8	292.7	-	288.3

0+0			10.6	
0+10			10.3	
0+20			9.0	
0+30			4.9	
0+40 ±			5.0	
0+47 Edge of Bank			6.3	
0+58			16.5	
0+70			18.3	
0+90			20.9	
0+70			1.6	
0+50			13.0	
0+40				



Cross-Sections Nutmeg St
 Start at Felton, work east to Teresita ^{50' east}

T. J. ALLEN
 April 22, 1926

20

S.W. Cor. Lot 12, Bk. G. (P.I.)

292.79

BM	3.29	292.78	289.49
N P.		11.6	81.2
Curb		12.8	80.0
1/4		13.8	79.0
1/4		15.4	77.4
1/4		16.2	76.6
Curb		16.7	76.1
S. P.		17.9	74.9

S.E. Cor. Lot 12, Bk. G.

N P.		3.0	89.8
C		3.5	89.3
1/4		4.0	88.8
1/4		4.5	88.3
1/4		4.7	88.1
C		5.5	87.3
P.		6.0	86.8

50' east

50' east

N P.		6.6	86.2
C		7.3	85.5
1/4		7.9	84.9
1/4		8.9	83.9
1/4		9.7	83.1
C		10.7	82.1
S P.		11.4	81.4

N P.		1.1	91.9
C		1.4	91.4
1/4		1.7	91.1
1/4		2.2	90.6
1/4		2.4	90.4
C		2.5	90.3
P.		3.1	89.7

292.7+

S.E. Cor Lot 1, BK.G. (P1)

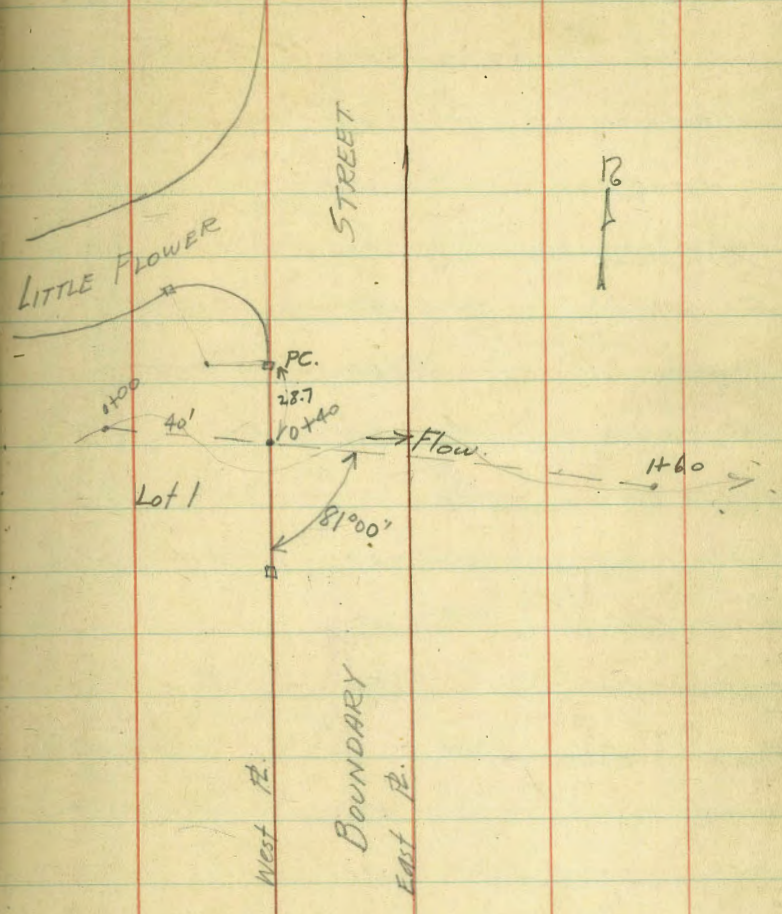
N Pl.	1.1	91.7
Curb	1.3	91.5
1/4	1.2	91.6
E	1.3	91.5
1/4	1.5	91.3
Curb	1.6	91.2
S Pl.	1.8	91.0

S.W. Cor. Lot. 39. BK F.

N Pl.	2.0	90.8
C	2.1	90.7
1/4	2.4	90.4
E	2.7	90.1
1/4	2.8	90.0
C	3.0	89.8
S Pl.	3.1	89.7

Culvert on Boundary
between Little Flower & Quince.

TP.	6.00	259.4	253.4
		<u>259.4</u>	
1+60		13.0	246.4 ✓
1+40		11.3	245.1 ✓
1+10		8.8	250.6 ✓
0+85		5.2	254.4 ✓
0+70		5.8	253.6 ✓
	10.00	263.4	253.4
		<u>263.4</u>	
0+56		6.1	257.3 ✓
0+40		3.7	259.7 ✓
0+27		4.2	259.4 ✓
0+15		7.5	255.9 ✓
0+04		4.8	258.6 ✓
0+00		6.0	257.4 ✓



36
14
60
117

22

Cross Section Along Black 16 days High
From Madison's Adams Suburban Hamilton & Orange

BM	480	383.79	378.99	SE Madison & Hamilton
				N.L. Madison
E	Top Curb	3.81		
	Ground	3.7		
L		4.0		
+5		4.3		
H	Ground	3.8		
H	Top Curb	3.44		
			25'N	
H		3.3		
B		3.8		
E		3.0		
			150'N	
E		3.2		
B		3.6		
+5		3.8		
H		3.9		
			75'N	
H		3.0		
+5		3.4		

383.79

23

8.1.11
S. J. L.
No. 777
11.11.11

					3.1
					3.2
			100'N		
					4.8
					4.1
					3.0
TP	520	386.54	3.05	380.74	
				125'N	
					110'N Garage 6' EEL / Center
					5.5
					5.7
					5.9
					5.1
				150'N	
					140'N Garage Case Floor on 14.2. 5.55
					5.7
					5.7
					5.9
					5.1
				175'N	
					5.5
					5.5
					5.5

386.54

190'N

- 6 Garage Coc Floor 5.00
 F 5.5
 L 5.3
 H Fence 0.6 in Alley 5.3

225'N

H 4.7
 L 4.6
 F 5.0

275'N

F 4.9
 L 5.0
 H Fence 0.5 in Alley 5.0

300'N

H Fence 0.5 in Alley 4.6
 Top N.H. 4.6

L 4.7
 F 4.9

330'N

F 4.8
 L 4.8

250'N
 on XL
 Cono 2 1/2 ft
 4.35

386.54

24

H 4.5
 + 2 Garage Coc Floor 4.8

360'N

H 4.3
 L 4.2
 F 3.6

+ 5.7 Garage Coc Floor 8.43

400'N

F 8.5
 L 8.6
 H 8.6

420'N

H 8.5
 L 8.7
 F 8.9

475

- 5.5 Garage Coc Floor 2.37
 F 2.9
 L 2.8

490'N

H 3.0

360'N
 Garage Coc Floor
 2' x 1/2
 4.90

407'N
 Garage Coc Floor
 4' x 1/2
 3.4

-2	De Gorge Conc Flar	2.5
H		2.9
Z		2.8
F		2.7
+5.5	De Gorge Dir Flar	2.3
	540'H	
F		2.0
Z		2.2
H		2.6
	580'H	
H		1.8
Z		2.2
+5		2.4
F		1.7
	597'H	
F		2.1
+2		2.1
+5		3.3
Z		3.4
+5		3.5
+1		2.5

525 N
50' E L
3 Garages
21' x 40' 00"

H		2.5
	600'H - 152' Adams	
H	Top Curb	4.88
	" " " " " " "	4.03
	" " " " " " "	4.21
F	" " " " " " "	3.93
F	" " " " " " "	3.73

LOCATION of NEW CUTOFF

Top Biological Grade. 0+00 = STA 145+00.64

PRC. Biological PAVING WEST ON N LINE

PLOT 1298 to STA.

POT 14+11.00

EC 12+41.41

$\Delta = 71^{\circ} 51'$ PT.

$P = 300'$

$T = 217.36$

$L = 376.20$

$\Delta = 5^{\circ} 07.55'$

$T = 53.67$

PI = 10+52.57

P.C. 8+85.21

POT. 7+56.83

0+00 = PRC. 145+00.64

-222.73 = PI

$\Delta = 71^{\circ} 24'$

$T = 222.73$

$P = 311.35$

□ 2 x 2

□ 1 x 1

□ 3 x 2 hub

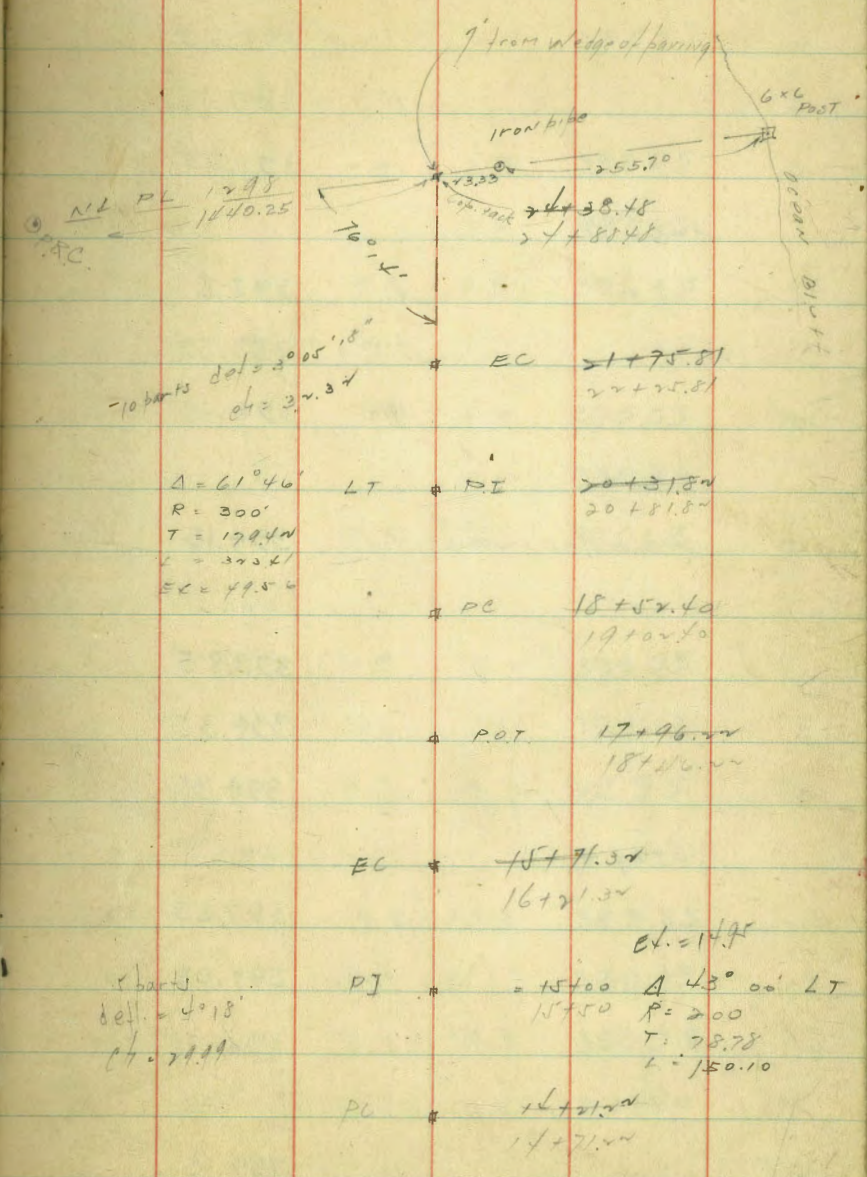
□ 2 x 2 Hub

x 50 approx x 25.14 o TALK IN PAVING

□ STUB

2/01.25

1+46.4		
E	2.3	398.95
e	2.9	398.35
w	3.3	397.95
1+82		
w	3.9	397.35
o	4.3	396.95
E	3.3	397.95
2+19.6		
E	5.3	395.95
e	6.0	395.25
w	6.7	394.55
2+56.2		
w	8.1	393.15
e	7.2	394.05
E	6.1	395.15
2+94.8		
E	7.5	393.75
e	9.4	392.05
w	12.5	388.75



	40/25		
	3429.4		
w		10.5	388.75
c		11.1	390.15
E		10.2	391.05
	3466		
E		8.7	392.55
C		8.7	392.55
w		9.1	392.15
	3492		
E	approx. location of ^{wood} stain	7.1	394.15
	4402.6		
w		7.4	393.85
c		6.9	394.35
E		6.9	394.35
	4439.2		
E		3.9	397.35
c		4.2	397.05
w		5.0	396.25
	4475.8		
w		4.1	397.15

	40/25		29
C		3.2	397.95
E		2.9	398.35
	5412.4		
E		3.2	398.05
c		3.8	397.45
w		4.8	396.45
	5448.95 = E.C.		
w		6.2	395.05
c	on stub	5.2	395.93
E		4.6	396.65
	6400		
E		7.2	394.05
C		8.1	393.15
w		8.7	392.55
	6450		
w		12.0	389.25
c		11.1	390.15
E		10.3	390.95
T.P.	1.89	390.67	12.47
			388.78

7+00

E	3.0	387.67
e	3.8	386.87
w	4.1	386.57

7+50

w	6.3	384.37
e	5.5	385.17
E	5.1	385.57

8+00

E	6.8	383.87
e	7.5	383.17
w	8.1	382.57

8+50

w	9.0	381.67
e	8.5	382.17
E	8.0	382.67

9+00

E	9.1	381.97
C	9.6	381.07
w	10.4	380.27

9+50

w	11.5	379.17
e	11.1	379.57
E	10.9	379.77

10+01.01

9+51.01 = PC.

From bore on / stove

J 100 up 50

E	12.9	377.77
T.P.	17.7	379.57
C-ovstub	2.6	376.94

w	3.7	375.84
---	-----	--------

9+77.55

10+27

w	6.3	373.24
C	4.8	374.74
E	3.3	376.24

10+94.09

10+66.09

E	11.2	368.34
C	10.4	369.14
w	13.4	366.14

T.P.	0.80	367.45
	14.89	366.65

10+80

10+30.63

w	7.2	360.25
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367.45

C			7.7	359.75
E			7.6	359.85
	⁵ 10+57.17 11 07			
E			12.5	354.95
C			16.0	351.45
W			18.0	349.45
T.P	⁵ 2.49 10+83.7/ 11 33	356.78	13.16	354.29
				= Culvert + 4000 P
W			16.0	340.78
C			12.9	4388
E			8.7	348.08
	⁵ 11+10.25 11+60.25			
E			9.6	347.18
C			15.7	411
W	⁵ 11+86.81 11+36.81 = E.C.		18.7	338.08
W			20.5	336.28
C			15.5	413
E			9.6	347.18

356.78

	⁵ 11+90 12+40			
E			9.3	347.48
C			1.48	420
W			21.6	235.18
	⁵ 12+45 12+85			
W			28.0	328.78
C			15.5	383
E			8.5	348.28
	⁵ 12+65 13+15			
E			5.7	351.08
C			14.1	429
W			22.1	334.38
	⁵ 14+80 13+30			
W			18.0	338.78
C			9.6	472
E			-2.5	354.28
	⁵ 13+00 13+50			
E			+1.7	358.48
C			-5.6	512
W			-11.2	345.58

31

		356.78		
w/	13+35 13+85		17.0	339.78
c			-6.6	50.2
E			+3.4	350.18
	13+75 14+25			
E			+6.1	362.88
c			-3.9	52.9
w/			13.9	342.9
T.P.	5.71	358.98 ✓	3.51	352.47 ✓
	14+21.22 = PC 14+21.22			
w/			20.8	338.18
c			-7.9	351.2
E			+0.7	359.68
	14+51.22 15+00.22			
E			-0.3	358.68
c			8.5	50.5
w/			18.4	340.58
	14+81.22 15+31.22			
w/			17.0	341.98
c			10.9	18.1

		358.98		
E			4.6	354.38
	15+11.22 15+61.22			
E			9.7	349.18
c			15.3	43.7
w/			21.1	337.88
T.P.	0.47	347.13 ✓	12.3 ✓	346.66 ✓
	15+21.22 15+51.22			
w/			31.0	316.13
c			19.9	329.2
E			7.0	340.13
	15+71.32 = FC 16+21.32			
E			9.4	337.73
T.P.	0.12	334.30 ✓	12.95 ✓	332.18 ✓
c			8.3	26.0
w/			19.3	315.0
	16+11 16+62			
w/			22.8	311.5
c			9.6	24.7
E			2.7	331.6

334.50

16470
17420

E		17.9	316.4
C		27.0	013
w/		34.8	299.5

17465
17455

w/		35.0	299.3
C		26.0	083
E		17.4	316.9

17440
17490

E		5.4	328.9
C		13.4	21.1
w/		22.3	312.0

17470
18420

w/		17.4	317.1
C		8.0	263
E		3.4	331.1

17496.22 = POT
1846.22

E		4.4	330.1
C = POT STUB		9.4	26.1

w/		15.4	318.8
T.P.	0.09	321.32	1307 321.23 ✓

321.32

33

18452.40 = PC
1902.40

w/		12.0	309.32
C		8.4	12.9
E		4.1	317.22

T.P. 0.41 308.85 ✓ 12.88 308.44 ✓

18444.74
19347.2

E		0.0	308.85
C		4.9	03.9
w/		6.3	302.55

19417.04
1967.04

w/		8.4	300.35
C		6.4	2.5
E		3.9	304.95

19449.22
19499.32

E		4.6	304.25
C		7.4	1.4
w/		10.8	298.0

19481.68
20431.68

w/		9.2	299.65
C		7.1	301.18
E		5.4	303.65

308.85 ✓

20+14
20+64

E		7.3	301.55
C		8.8	001
w		10.0	298.85
	20+46.32 20+96.32		
w		12.9	295.9
C		11.8	991
E		11.4	297.45
	20+78.6 ✓ 21 286	308.85 14.9	293.9
C		15.5	2934
w		17.1	291.75
T.P.	179	292.66	12.98 295.7 ✓
	21+10.94 21+60.36		
w		10.6	287.06
C		9.8	899
E		8.4	289.26
T.P.	193	287.85	12.74 284.9 ✓
	21+43.28 21+93.28		
E		4.9	282.95

387.85 ✓

34

C		5.3	82.6
w		6.4	281.45
	21+75.81 = EC 50 2225.81		
w		10.1	277.75
C		5.90	82.0
E		5.4	282.65
	22+67.5 22+17.5 = wedge baring		
E	one baring	7.4	280.45
C	" "	6.1	281.8
w		6.7	281.15
	23+00 23+50		
w		10.5	277.35
C	E edge baring	10.7	99.2
E		11.4	276.15
T.P.	331	285.26	5.90 281.95
	24+38.48 & baring	17.05	268.41
	24+88.48		

Mende Ave 1 sec
/ ditto to Texas

50' w/ 80'
14' cb

SEBP	3.86	381.09		377.75
WL Idaho = 00				
S			5.0	76.1
top cem cb			5.7	75.92
gut			5.5	75.6
1/4			5.4	75.7
c			5.3	75.8
1/4			5.6	75.5
gut			5.4	75.7
top cem cb			5.4	75.7
1/4			4.9	76.2
25' w				
1/4			5.3	75.8
cb			5.6	75.5
1/4			5.4	75.7
c			5.2	75.9
1/4			5.5	75.6
cb			5.3	75.8
S			4.9	76.2

Memo Oregon
 SE Return must be rebuilt -
 BUT SIDE WALK NOT IN
 SUMMER -
 1870 = 30' DAS
 caused by water ditch on Mende
 the timber should stand at 10' 14.5

381.09

35

35' w				
S			3.6	77.5
cb			5.0	76.1
1/4			5.5	75.6
c			5.5	75.6
1/4			5.1	76.0
cb			5.5	75.6
1/4			5.2	75.9
25' w				
1/4			5.1	76.0
cb			5.5	75.6
1/4			5.2	75.9
c			5.1	76.0
1/4			5.7	75.4
cb			5.4	75.7
S			5.0	76.1
25' w				
S			5.3	75.8
cb			5.3	75.8
1/4			5.4	75.7

381.09

c		5.4	75.7
1/4		5.1	76.0
cb		5.3	75.8
N		4.8	76.3
	100' w/		
N		5.6	76.5
cb		5.0	76.1
1/4		5.3	75.8
c		5.3	75.8
1/4		5.3	75.8
cb		4.8	76.3
S		4.9	76.2
	145' w/		
S		5.2	75.9
cb		5.0	76.1
1/4		5.0	76.1
c		4.7	76.4
1/4		4.5	76.6
cb		4.6	76.5
N		4.6	76.5

381.09

Mardo 36

	14.50		
N		4.5	76.6
cb		4.5	76.6
1/4		4.8	76.3
C to A	power MHRIM	4.5	76.4
1/4		4.8	76.3
cb		5.2	75.9
S		5.1	76.0
	200' w/		
S		4.7	76.4
cb		4.7	76.4
1/4		4.9	76.2
c		4.9	76.2
1/4		5.0	76.1
cb		4.7	76.4
N		4.5	76.6
	250' w/		
N		4.6	76.5
cb		4.7	76.4
1/4		4.7	76.4

381.09

c		4.7	76.4
1/4		4.7	76.4
cb		4.7	76.4
s		4.5	76.4
	275' w		
s		4.4	76.7
cb		4.6	76.5
1/4		4.6	76.5
c		4.8	76.3
1/4		5.0	76.1
cb		4.7	76.4
1/4		4.5	76.6
	295' w		
1/4		4.6	76.5
cb		4.8	76.3
1/4		4.6	76.5
c		4.8	76.3
1/4		4.9	76.2
cb		4.6	76.5
s		3.8	77.3

381.09

Meads 37

300' W = EL Oregon

s		3.7	77.4
Tobacco	cb	3.9	77.17
gut		4.3	76.8
1/4		4.6	76.5
c		4.6	76.5
1/4		4.6	76.5
gut		4.3	76.8
tobacco	cb	3.9	77.19
1/4		3.8	77.3
	W Oregon = 00		
1/4		4.1	77.0
Tobacco	cb	4.38	76.71
gut		4.8	76.3
1/4		5.0	76.1
c		5.0	76.1
1/4		5.0	76.1
gut		4.8	76.3
tobacco	cb	4.47	76.62
s		4.4	76.9

Oregon has 14 obs.
 1/3 for core in OK
 20 sidebank
 1/2 of

381.09

at water level

S	4.6	76.5
cb	5.0	76.1
1/4	5.0	76.1
e	5.1	76.0
1/4	5.0	76.1
cb	4.9	76.2
n/	4.3	76.8
100 in'		
n/	4.5	76.6
cb	4.4	76.7
1/4	5.2	75.9
e	5.2	75.9
1/4	5.1	76.0
cb	5.0	76.1
S	4.9	76.2
75 in'		
S	5.1	76.0
cb	5.1	76.0
1/4	5.0	76.1

381.09

Moose

38

e	5.4	75.7
1/4	5.5	75.6
cb	5.3	75.8
n/	4.8	76.3
T.P	4.05	379.51
100 in'		
n/	3.3	76.2
cb	4.0	75.5
1/4	4.0	75.5
c	4.0	75.5
1/4	4.0	75.5
cb	3.9	75.6
S	3.7	75.8
105 in'		
S	3.9	75.6
cb	4.1	75.4
1/4	4.1	75.4
e	4.4	75.1
1/4	4.3	75.2
cb	4.1	75.3

	379.5'		
N	3.8	75.7	
150' w			
N	4.3	75.2	
cb	4.5	75.0	
1/4	4.5	75.0	
C on Sever 19 H.T.M	3.0	76.5	
C for edge	3.7	75.8	
1/4	4.4	75.1	
cb	4.3	75.2	
S	4.2	75.3	
177' w			
S & d'com walk	3.95	75.56 on line	
S for edge	4.3	75.2	
cb	4.8	74.7	
1/4	4.7	74.8	
C	4.5	75.0	
1/4	4.6	74.9	
cb	4.4	75.3	
N	4.5	75.0	

	379.5'	Mondo	39
210' w			
N	5.2	74.3	
cb	5.3	74.2	
1/4	5.3	74.2	
C	4.5	75.0	
1/4	4.7	74.8	
cb-	4.9	74.6	
S	4.7	74.8	
S & com double strip auto	4.50	75.01	drive out line
231' w			
S & d'com walk	4.65	74.86	" "
S for edge	5.0	74.5	
cb	5.8	73.7	
1/4	5.7	73.8	
C	5.3	74.2	
1/4	5.4	74.1	
cb	5.4	74.1	
N	4.4	75.1	
250' w			
N	4.6	74.9	

3795'

cb	5.9	73.6
1/4	5.6	73.9
c	5.7	73.8
1/4	5.9	73.6
cb	5.9	73.6
S	5.5	74.3
275' in		
S	5.5	74.0
cb	5.8	73.7
1/4	6.5	73.0
c	6.7	72.8
1/4	6.8	72.7
cb	6.1	73.4
1/4	4.5	75.0
295' in		
1/4	6.3	73.2
cb	6.5	73.0
1/4	8.0	71.5
c	7.8	71.7
1/4	7.8	71.7

3795'

170000

40

cb	6.2	73.3
S	6.4	73.1
200' W = EL. Ham. Returns all OK.		
S	7.9	71.6
Top cem cb good for v/dge	8.27	71.14
1/4	8.5	71.3
c	8.3	71.2
1/4	8.5	71.1
gut	7.8	71.7
top cem cb	7.5	71.99
N	7.5	72.3
W/L Ham = 00		
1/4	8.8	70.7
top cem cb	9.1	70.39
gut	9.4	70.1
1/4	9.7	69.8
c	9.6	69.9
1/4	9.9	69.6
Top cem cb	10.0	69.5 for v/dge
S	9.7	69.8

	379.51		
S' w/ of Ham			
J	8.8	70.7	
cb	8.9	70.6	
1/4	9.5	70.0	
c	9.4	70.1	
1/4	9.7	69.8	
cb	8.9	70.6	
w/	8.7	70.8	
20' w/			
w/	8.9	70.6	
cb	9.0	70.5	
1/4	9.4	70.1	
c	8.9	70.6	
1/4	9.0	70.5	
cb	8.8	70.7	
J	9.3	70.2	
50' w/			
J	10.4	69.1	
cb	9.6	69.9	
1/2	9.7	69.8	

	379.51	Mendo	.1
C	7.5	70.0	
1/4	9.7	69.8	
cb	9.8	69.7	
w/	9.6	69.9	
80' w/			
-3.5	8. garrigo com/ bar	10.6	68.91
1/4		11.3	68.2
cb		11.4	68.1
1/4		11.4	68.1
c		11.2	68.3
1/4		11.4	68.1
cb		11.8	67.7
S		12.4	67.3
F.P.	139	369.00	11.90
	110 w/		367.61
J		4.1	64.9
cb		4.8	64.2
1/4		3.4	65.8
c		2.6	66.4
1/4		2.7	66.3

	369.00		
cb		2.6	66.4
N		2.5	66.5
	127'w		
N		3.6	65.4
cb		4.8	64.2
1/4		5.8	63.2
c		5.8	63.2
1/4		6.3	62.7
cb		6.0	63.0
S		5.4	63.6
+ 4 E com walk 4 sides		5.7	63.3
	150'w		
S		8.1	60.9
cb		8.5	60.5
1/4		8.8	60.2
c Sewer MH/Rim		8.9	60.1
1/4		8.9	60.1
cb		9.1	59.9
N		8.6	60.4

	369.00		Moade 42
	175'w		
N		11.1	57.9
cb		11.3	57.7
1/4		9.9	59.1
c		10.1	58.9
1/4		11.1	57.9
cb		11.6	57.4
S		11.1	57.9
T.P.	0.63	356.43	18.20
	200'w		355.80
S		1.3	55.1
cb		2.1	54.3
1/4		1.6	54.8
c		1.5	54.9
1/4		N.N.	54.2
cb		2.0	54.4
N		1.9	54.5
	430'w		
N		4.4	52.0
cb		5.0	51.4

	35643		
1/4		4.1	52.3
c		5.7	50.7
1/4		4.1	52.3
cb		4.4	52.2
J		5.3	51.1
	275 in		
J		7.3	49.1
cb		7.4	49.0
1/4		7.6	48.8
c		7.4	49.0
1/4		7.6	48.8
cb		7.4	49.2
✓		5.5	50.9
	260 in		
✓		7.6	48.8
cb		7.7	48.7
1/4		8.1	48.3
c		8.4	48.0
1/4		8.7	47.7
cb		8.7	47.7

	35643	Moods	43
J		9.1	47.2
	275 in		
J		9.0	47.4
cb		8.7	47.7
1/4		9.1	47.3
c		9.0	47.4
1/4		8.4	48.0
cb		8.7	47.7
✓		8.9	47.5
	275 in		
✓		10.6	45.8
cb		11.9	44.5
t3		11.9	43.5
1/4		11.2	45.2
c		11.0	46.4
1/4		11.3	46.1
cb		10.9	45.5
J		10.6	45.9
TP	3.65	347.17	12.3 / 344.12

34777

300' w EL Horiz.

all returns OK.

J		5.3	42.5
Top com cb	for yelp	5.66	42.11
1/4		5.5	42.3
c		5.0	42.8
1/4		4.6	43.2
gut		4.4	43.4
top com cb		4.4	43.6
✓		3.7	44.1
W/L Horiz=00			
✓		5.5	42.3
top com cb		5.68	42.09
gut		6.6	41.2
1/4		6.7	41.1
c		6.4	41.4
1/4		7.1	40.7
gut		7.0	40.8
top com cb		6.74	41.05
J		6.4	41.4
T.P.	181	34786	6.74 341.05

34786

Meado

44

25' w

J		3.1	39.8
cb		4.0	38.9
1/4		3.5	39.4
c		3.6	39.3
1/4		3.9	39.0
cb		4.0	38.9
✓		3.7	39.2
45		3.6	39.3

50' w

-5		4.2	38.7
✓		4.3	38.6
cb		4.1	38.8
1/4		4.4	38.5
c		5.3	37.6
1/4		5.1	37.8
cb		5.0	37.9
J		4.7	38.2

65' w

0.7 50' w of Com. Apron 4.00 38.86 8' wide

	3/7/86		
75' w			
J	3.8	39.1	
cb	4.3	38.6	
1/4	5.6	37.3	
e	5.5	37.6	
1/4	5.1	37.8	
cb	4.6	38.3	
n/	4.7	38.2	
85' w			
-1.5 & cone double strip	4.8	38.06	
n/	5.1	37.8	
cb	4.8	38.1	
1/4	6.0	36.9	
e	6.2	36.7	
1/4	6.1	36.8	
cb	6.4	36.7	
J	5.8	37.1	
100' w			
J	6.3	36.8	
cb	6.3	36.6	

	3/28/86	Moade	15
1/4	6.6	36.3	
e	6.9	36.0	
1/4	6.9	36.0	
cb	6.2	36.7	
n/	5.7	37.2	
110' w	tipper tree 10" diam 3' N of 1/4 cb		
115' w			
n/	5.9	37.0	
cb	6.3	36.6	
1/4	6.6	36.3	
e	6.5	36.4	
1/4	5.1	37.8	
cb	5.8	37.1	
J	7.3	35.6	
135' w			
J	8.0	34.9	
cb	7.9	35.0	
1/4	7.4	35.5	
e	7.2	35.7	
1/4	7.4	35.5	

34286

cb		7.1	35.8
N		6.3	36.6
	150'w		
N		6.8	36.1
cb		6.9	36.0
1/4		7.0	35.9
e = Top Sewer MH/RM		7.5	35.4
c		6.6	36.3
1/4		7.2	35.7
cb		8.1	34.8
S		8.3	34.6
	170'w		
S		8.8	34.1
cb		9.0	33.9
1/4		8.6	34.3
c		8.0	34.9
1/4		8.4	34.5
cb		8.5	34.4
N		7.6	35.3

34286

Meade 46

	200'w		
N		8.2	34.7
cb		9.0	33.9
1/4		9.1	33.8
c		9.0	33.9
1/4		8.9	34.0
cb		8.4	34.5
S		8.3	34.6
	225'w		
S		9.8	33.1
cb		8.9	34.0
1/4		7.8	35.1
c		7.7	35.2
1/4		8.9	34.0
cb		9.1	33.8
N		8.6	34.3
	237'w		
N		8.8	34.1
10		7.4	35.5
cb		7.7	35.2

	34286		
1/4		10.3	32.6
e		8.8	34.1
1/4		9.1	33.8
cb		9.9	33.0
J		9.5	33.4
	250' in		
J		9.3	33.6
cb		10.1	32.8
1/4		10.0	32.9
c		9.9	33.0
1/4		10.0	32.9
cb		9.6	33.3
N		9.7	33.7
	275' in		
N		9.6	33.3
cb		10.1	32.8
1/4		10.5	32.5
e		10.7	32.7
1/4		10.7	32.7
cb		9.8	33.1

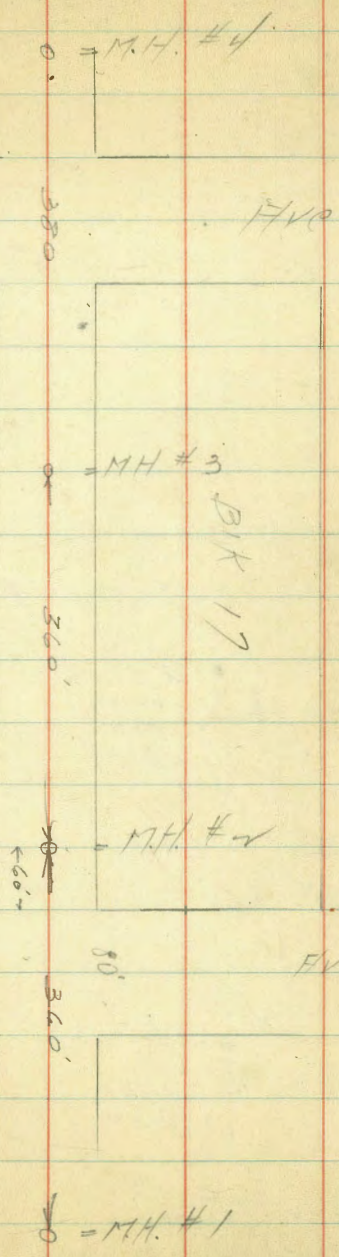
	34286	Moore	47
J		9.3	33.6
	200' in = EL Tabs	Return 1/10 k	
J		11.1	31.8
top corr cb		11.33	31.53
gut		11.6	31.3
1/4		11.6	31.3
e		11.4	31.5
1/4		11.0	31.9
gut		10.7	32.2
top corr cb		10.40	32.46
N		10.1	32.8
SEBP	Moore Texas 331.51	11.35	331.51 0.10 Error

Levels on Senior M.H.
 BIK 17 Farmment Add. Moore
 11/2/57

458	356.98 ✓	352.40	
Flowline Senior M.H. - no S of S of NW 1/4	15.7 ✓	= M.H. #1	
Flowline Senior M.H. 60' N of NW 1/4	14.5 ✓	342.46 = " #2	POIK
Rim " " " " " "	4.07	352.91 = " "	
" " " " " " "	6.10	350.88 = " #3	
Flowline " " " " " "	13.5 ✓	343.46 = " "	
" " " N of POIK	12.25	344.73 = #4	

CHAUNTOUR

FARMMENT Add



1/2 1/2

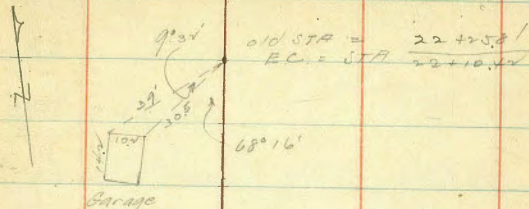
13th Change of Line at New Biological grade
Moore Cut off.

See page 28

Location of Garage
property of Subtel Prof
at Biological station

49

PI = STA 20+84.67



22+10.67 = old EL = STA 22+25.81 old STA.

$A = 61^\circ 46' 27''$
 $R = 262.03$
 $T = 756.74$
 $L = 282.47$

192+795 = PC

18740 = P.O.T.

15+91.99 = EC

$A = 43^\circ 00'$ LI
 $R = 200'$
 $T = 78.78$
 $L = 150.1$

12+41.59 = 0+100 = change in
Line

xxv hub

xxv hub

xxv hub

xxv hub

xxv hub

xxv hub

Cross section of New Line on
Biological Curloff 20 wide.

127100	15.45	363.65	351.20
127419	0.9	362.8	
C	10.1	353.6	
W	18.5	345.2	
Sec F Curve in 5 parts boards = 29.92			
W	23.2	340.4	
C	11.3	352.4	
E	1.8	361.8	
Sec B			
F	2.9	360.8	
C	9.7	354.0	
W	18.4	345.2	
Sec C			
W	16.5	347.2	
C	11.5	352.2	
E	6.5	357.2	
Sec D			
E	10.0	353.6	
C	15.7	348.4	
W	22.4	341.4	
TP	33.3	350.2	

354.15

50

Sec C = EC 15 + 9.11

W	22.1	332.0
C	10.1	344.0
E	3.9	350.2
16 + 2.5		
F	7.2	347.0
C	14.7	339.4
W	26.0	328.2
16 + 8.0		
W	28.6	325.6
C	18.0	336.2
E	9.4	344.8
16 + 7.5		
E	15.2	339.0
TP	35.1	341.8
C	12.5	341.3
C	12.3	329.5
W	23.0	318.8
17 + 2.5		
W	32.5	309.3
C	23.1	318.7
E	12.1	329.7

	17+55			
E		11.0	330.4	
C		21.8	320.0	
W		31.0	310.6	
	17+75			
W		22.5	319.3	
C		14.0	327.6	
E		6.0	335.4	
	18+00			
E		5.0	336.8	
C		9.0	332.6	
W		15.6	326.2	
	18+40 = P.B.T			
W		15.1	326.7	
C		11.0	330.6	
E		8.1	333.7	
T.P.	0.14	22.9	329.10	
	18+70			
E		1.0	328.2	
C		4.7	324.5	
W		9.9	319.3	

	19+00			
W		16.3	312.9	
C		12.0	317.0	
E		8.4	326.8	
	19+20			
E		12.7	316.5	
T.P.	0.60	316.91	12.90	316.31
C		4.0	312.5	
W		7.9	309.0	
	19+27.95 = P.C.	Curve in	rocks	change = 28.0
W		14.8	304.1	
C		9.6	307.3	
E		5.5	311.4	
	19+37 = Top of bank on old road			
E		10.0	306.9	
C		12.3	304.6	
W		13.7	303.2	
T.P.	2.28	307.67	12.60	304.49
	See Fl = 1st ahead			
W		5.0	307.3	

307.67

C		2.5	305.2
E		1.1	306.6
	Sec B		
E		0.9	306.8
C		4.1	303.6
W		7.3	300.4
	Sec C		
W		7.2	300.5
C		4.7	303.0
E		2.3	305.4
	Sec D		
E		4.3	303.4
C		6.1	301.6
W		8.1	299.6
	Sec E		
W		10.2	297.5
C		8.7	299.0
E		7.3	300.4
	Sec F		
E		10.7	297.0

307.67

C		11.9	295.8
W		11.1	293.3
TP	103	495.85	12.85
	Sec G		494.85
W		6.6	289.2
C		4.3	291.5
E		2.8	293.0
	Sec H		
E		7.1	288.7
		9.1	286.7
W		13.0	282.8
	Sec I		
W		15.2	280.6
C		13.4	282.4
E		14.9	282.9
	Sec J = EC		
E		13.1	282.7
C		13.83	282.0 ✓ = 282.0
W		18.6	277.2

52

20 STS
18' clg
34' Roadway

X See Intersection of Willow
& Alcott

4-28-27
Miller

3

B.M. 3.52 116.16

V 112.44 SW. Alcott &
113.24 Willow
112.64

W Line Willow

N. end of Return on S 10' W of S Line Alcott 3.54 112.62

" " " " " N 10' S " N. Line Alcott 2.20 113.96

10' E. of W. Line Willow

N. Line Alcott cont'd 1.88 114.28

S " " " " " 3.53 112.63

E. cl Willow ST

S Line Alcott 3.8 112.4

S cl 4.2 112.0

± 4.0 112.2

N. cl 3.0 113.2

N. Line 2.6 113.6

4' E. of E. cl

N 3.0 113.2

cl 2.9 113.3

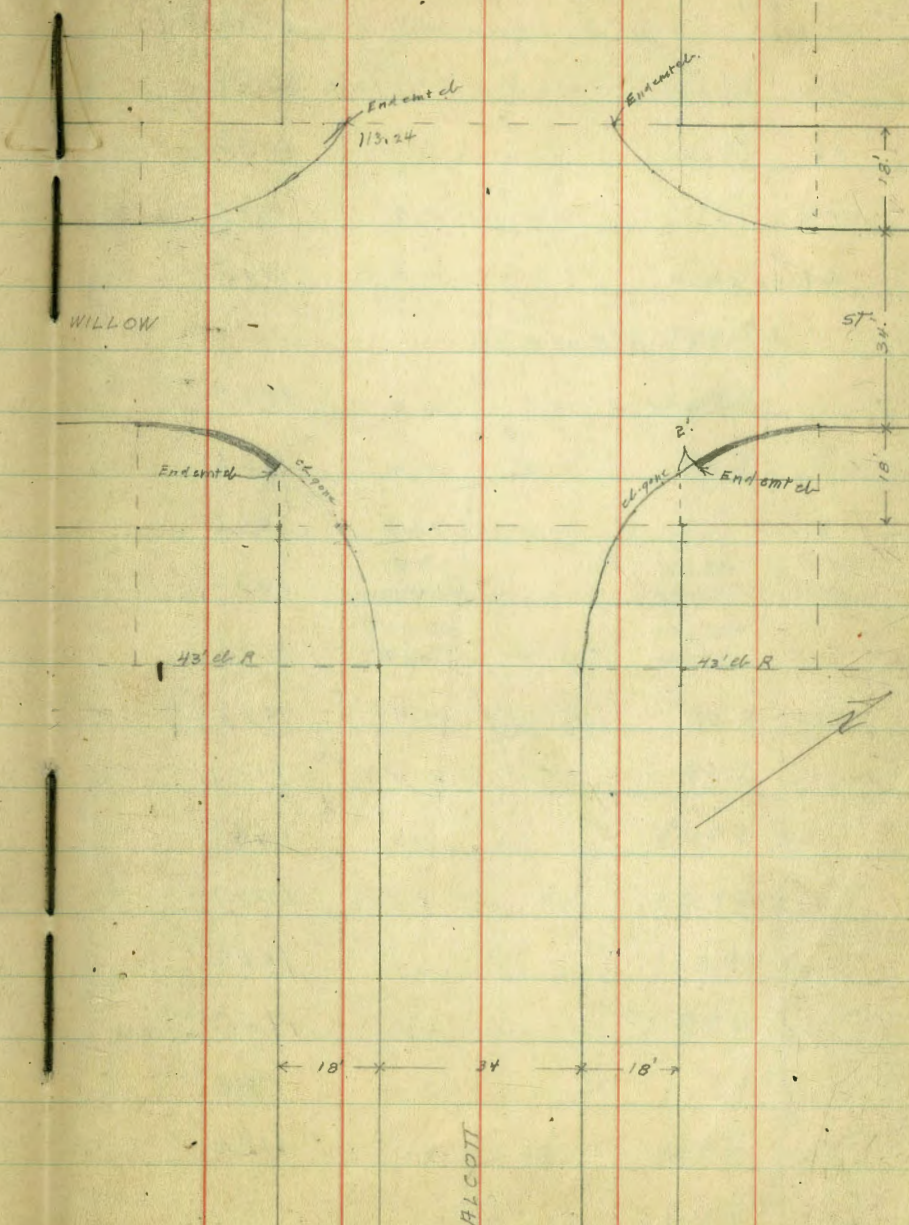
± 4.4 111.8

+4 4.4 111.8

+5 4.5 101.7

+12 4.6 104.6

+13 4.5 111.7



4' E of E. cl (cont)

S. cl	4.5	111.7
+2	4.6	111.6
+4	11.1	105.9
+8	11.0	105.2
+10	4.9	111.3
S. Line AleoH	4.5	111.7

8' E. of E. cl

S. Line = E. end ent. cl. ret.

	4.3	111.9
+9	6.0	110.2
+10	12.3	103.9
+13	12.0	104.2
+15	4.7	111.5
cl	4.4	111.8
+4	4.5	111.7
+5	11.3	104.9
+12	15.5	100.7
±	10.0	106.2
+5	4.5	111.7
+10	3.2	113.0
cl	3.6	112.6

N. line

18' E. of E. cl of Willow = E. Line Willow

	2.9	113.3
N. line AleoH	2.9	113.3
+10	6.0	110.2
N. cl	3.4	112.8
+4	3.7	112.5
+5	6.3	109.9
+14	7.2	109.0
±	16.5	99.7

Continued by Tolman - 6-21-27.

1.90	114.54	112.67	B.M. Willow
	115.76	113.00	+ AleoH
1.10	102.76	101.66	
	103.38	102.88	
±		6.6	96.2
+2		-7.8	95.0
+9		+1.4	104.2
+10		+7.0	109.8
+16		+1.0	103.8
cl		-4.2	98.6
+1		0.7	102.1
+10		+2.0	104.8
S. PL AleoH		+9.0	111.8

E.L. Willow + 8

S.L. Allcott	0.7	102.1
+5	1.6	101.2
+15	6.8	96.0
cb	6.2	96.6
+9	3.3	99.5
±	7.4	93.4
+7	1.1	101.7
cb	0.7	102.1
S.L. Allcott	+8.0	110.8

E.L. Willow + 36

N.L. Allcott	0.7	102.1
cb	7.3	95.5
+12	14.0	88.8
±	17.9	84.9
+4	15.6	87.2
+8	16.2	86.6
+13	19.3	83.5
cb + 8	15.2	87.6
N.L. Allcott	10.3	92.6

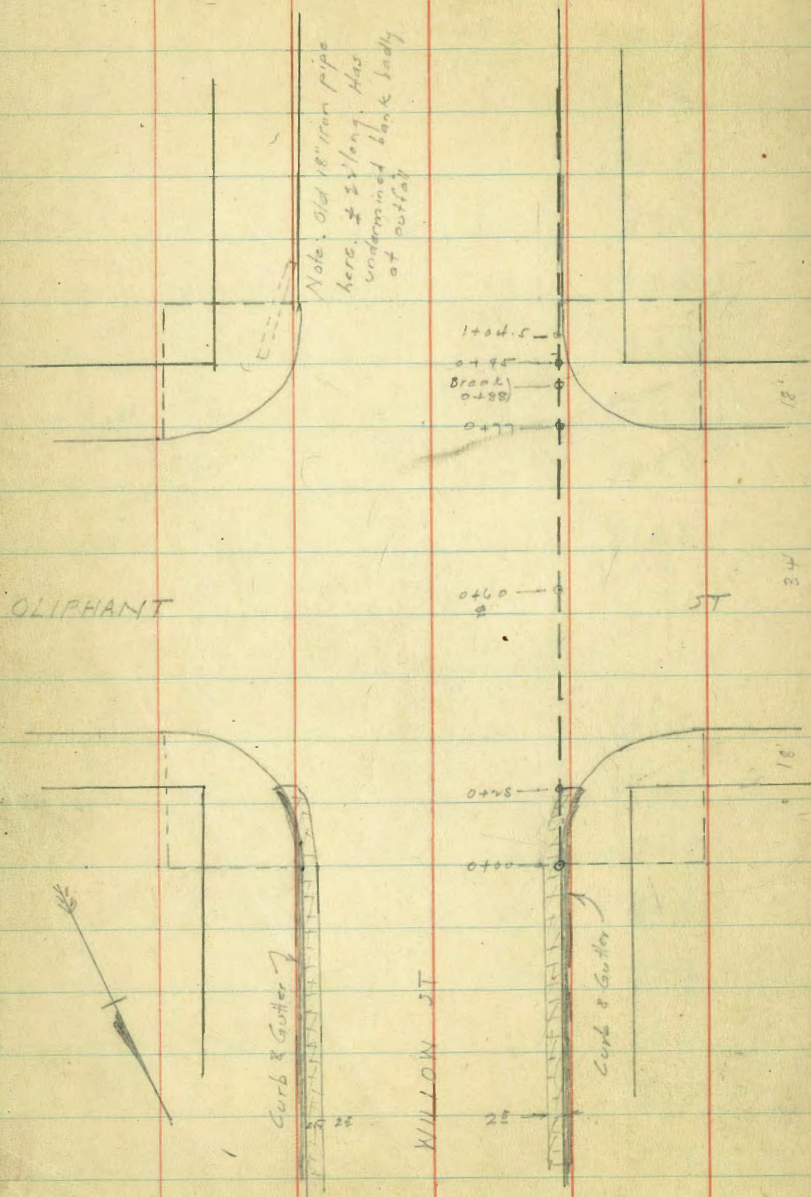
Flawline is
conc. sulvert
Also end of it

Tolm on
6-21-27

Cutvert at Oliphant & Willow

Levels

56

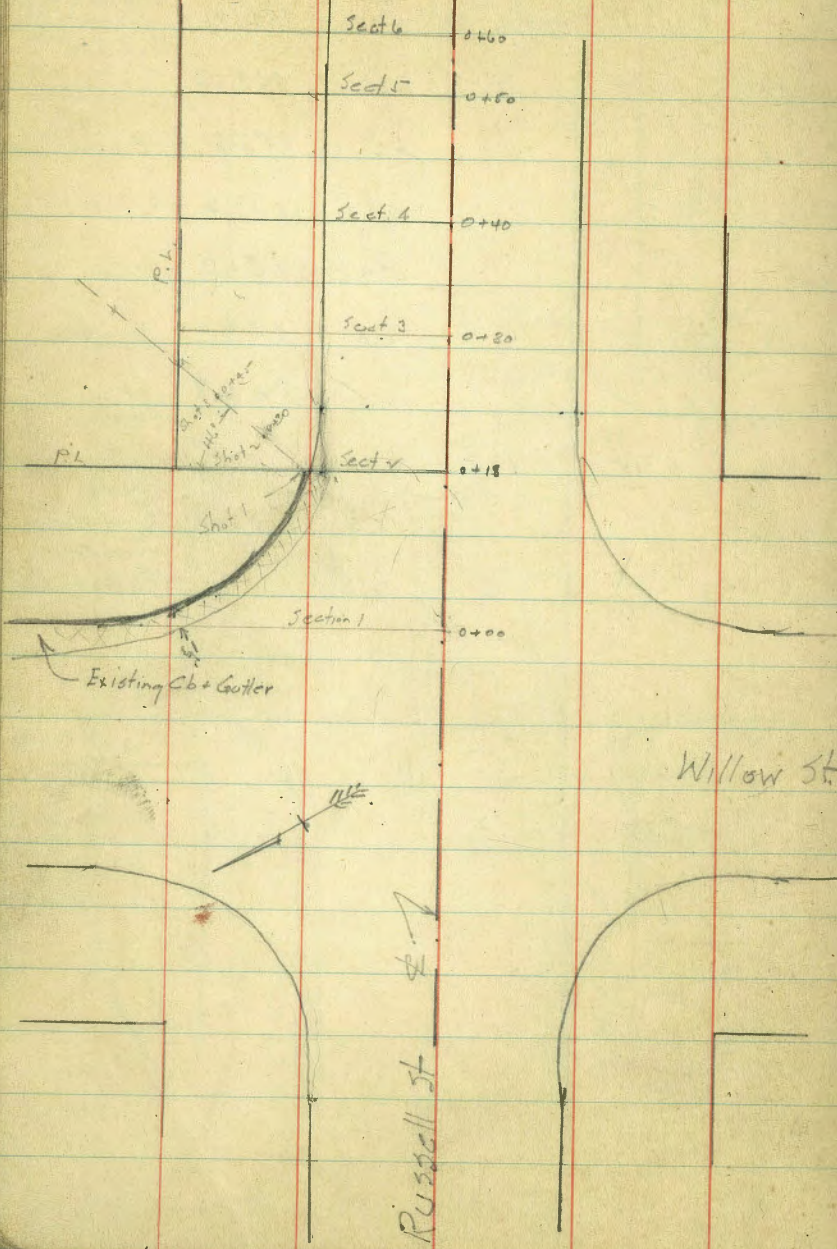


Station	Distance	Level	Level	Level	Description
	4.20	157.01		152.81	B.M. N.W. Oliphant & Willow
0+00			4.38	155.63	Rad. Line Top Curb
0+25			4.2	152.8	P. Line
0+60			5.6	151.2	& Oliphant
0+77			5.7	151.3	Curb
0+88			6.0	151.0	Break
0+95			10.3	146.7	P.L.
TP	4.45	154.65	6.91	150.20	
1+02.5			15.3	139.3	Note: Same slope for 50'

Tolman
6/21/27

Culvert at Willow & Russell

57



Levels			
161.57		161.33	B.M. SW Russell + Willow
167.57		167.53	
Section 1 = 0+00			
	1.2	160.4	
17' left	1.4	160.2	Cb line
35' left	1.4	160.2	P.L.
43' left	0.00	161.6	Top Curb
Section 2 = 0+18			
	1.6	160.0	
17' left	2.8	158.8	Cb line
35' left	2.8	158.8	P.L.
Section 3 = 0+30			
	2.2	159.4	
17' left	4.0	157.6	
35' left	5.8	155.8	
Section 4 = 0+40			
	2.7	158.9	
17' left	5.0	156.6	
35' left	7.4	154.2	

Sect 5 = 0+50

±	3.5	158.1
17' H	5.9	155.7
35' LH	8.8	152.8

Section 6 = 0+60

±	4.2	157.4
17' H	6.8	154.8
35' H	10.0	151.6

Line from end of existing curb into
canon. Shortest Route

	2.08	163.41	161.33	
		149.41	167.33	BM
Shot 1 0+30	3.31	160.1	Top C6	
Shot 2 0+45	10.1	153.3		
Shot 3	16.3	147.1		

Palmer
Ch. 1917

X section of Xenophon St bet. S.E. line
of Willow St. & the N.W. line of Rosecrans.

70' Street
18' 265
85%

158.95

80

B.M. 2019
+ Willow S.E.

12.07	148.84	136.77	+ +	4.4	54.5
10.37	158.95	148.58	$\frac{1}{4}$	3.9	55.0
			$\frac{1}{2}$	3.4	55.5
			$\frac{1}{4}$	3.3	55.6
S.E. Line Willow St. = 0+00					
J.W.	5.1	53.8	cb	3.1	55.8
Top cb	6.07	52.88	S.W. line	2.0	56.9
Gutter 3' wide	6.68	52.27			
$\frac{1}{4}$	6.9	52.0	0+60		
$\frac{1}{2}$	6.9	52.0	S.W.	2.9	56.0
$\frac{1}{4}$	7.2	51.7	cb	3.9	55.0
Gutter 3' wide	7.71	51.24	$\frac{1}{4}$	4.4	54.5
Top cb	7.05	51.90	$\frac{1}{2}$	4.8	54.1
N.E. line	7.4	51.5	$\frac{1}{4}$	5.7	53.2
			cb	6.0	52.9
	+ 02		N.E.	7.5	51.4
N.E. line	6.0	52.9			
+ 7	4.9	54.0	1+20		
+ 13	7.0	51.9	N.E.	8.8	50.1
cb	7.0	51.9	cb	7.6	51.3
+ 2	6.1	52.0	$\frac{1}{4}$	6.7	52.2
			+ +		

158.95

E	5.9	53.0
$\frac{1}{4}$	4.6	54.3
cb	3.9	55.0
S.W.	3.2	55.7
	1+40	
S.W.	5.6	53.3
cb	6.5	52.4
$\frac{1}{4}$	7.1	51.8
E	7.6	51.3
$\frac{1}{4}$	8.2	50.7
cb	8.3	50.6
N.E.	7.8	49.1

1+80

N.E.	11.0	47.9
cb	9.6	49.3
$\frac{1}{4}$	7.8	49.1
E	9.4	49.5
$\frac{1}{4}$	8.6	50.3
cb	9.7	50.2

158.95 Xenophon St

61

S.W.	7.9	51.0
	2+00	
S.W.	9.3	49.6
cb	9.7	49.2
$\frac{1}{4}$	9.7	49.2
+7	10.2	48.7
E	10.7	48.2
$\frac{1}{4}$	10.8	48.1
+6	11.6	47.3
cb	11.0	47.9
NE	12.1	46.8

1.00

147.95

12.00

146.95

2+40

N.E.	3.8	44.1
cb	2.7	45.2
+4	3.2	44.7
1/4	2.6	45.3
E	2.5	45.4

147.95

$\frac{1}{4}$	1.8	46.1
cb	1.6	46.3
S.W	0.6	47.3
	2+60	
S.W	1.9	46.0
cb	3.4	44.5
$\frac{1}{4}$	3.5	44.4
+7	3.5	44.4
$\frac{1}{4}$	4.2	43.7
$\frac{1}{4}$	4.2	43.7
+4.5	4.4	43.5
+5.5	3.9	44.0
cb	4.3	43.6
N.E	5.4	42.5
	2+80	
N.E	6.8	41.1
cb	5.7	42.2
+3	5.9	42.0
$\frac{1}{4}$	5.8	42.1

147.95

Xenophon St.

62

$\frac{1}{4}$	5.8	42.1
+1.5	5.3	42.6
$\frac{1}{4}$	5.0	42.9
cb	4.9	43.0
S.W.	4.3	43.6
	+300 = Evergreen St. Pl.	
S.W	6.0	41.9
cb	7.0	40.9
$\frac{1}{4}$	7.0	40.9
+7	6.9	41.0
$\frac{1}{4}$	7.4	40.5
$\frac{1}{4}$	7.5	40.4
+5	7.8	40.1
+6	7.1	40.8
cb	7.4	40.5
N.E	7.0	38.9
	cb. line - 18'	
S.W	10.1	37.8
cb	9.1	38.8

147.95

+ 3		8.9	39.1	
+ 5		9.2	38.7	
$\frac{1}{4}$		9.1	38.8	
E		9.1	38.8	
+ 1		8.7	39.2	
$\frac{1}{4}$		9.7	39.2	
cb		8.9	39.0	
N.E		9.2	39.7	
T.P.	1.04	139.39	9.60	138.35
		$\frac{1}{4}$		
N.E		2.5	36.9	
cb		1.5	37.9	
+ 3		1.2	38.2	
+ 4		1.7	37.7	
$\frac{1}{4}$		1.4	38.0	
E		1.4	38.0	
$\frac{1}{4}$		1.0	38.4	
cb		1.0	38.4	
SW		1.0	38.4	

394. Xenophon St.

68

E Evergreen St

S.W	0.8	38.6
cb	1.6	37.8
$\frac{1}{4}$	1.7	37.7
+ 7	1.5	37.9
E	2.4	37.0
$\frac{1}{4}$	2.1	37.3
cb	2.1	37.3
N.E	3.3	36.1
	$\frac{1}{4}$	
NE	4.0	35.4
cb	2.9	36.5
+ 1	3.3	36.1
$\frac{1}{4}$	3.1	36.3
E	3.2	36.2
+ 2	2.6	36.8
$\frac{1}{4}$	2.2	36.8
cb	2.4	37.0
S.W.	1.9	37.5

129.39

Cb.

S.W.	2.3	37.1
cb	3.3	36.1
$\frac{1}{4}$	3.3	36.1
+L	5.3	36.1
$\frac{1}{4}$	4.0	35.4
$\frac{1}{4}$	3.9	35.5
+5	4.2	35.2
+L	3.7	35.7
cb	4.0	35.4
N.E.	5.1	34.3

P.L. Evergreen St = 0+00

N.E.	6.8	32.6
cb	5.5	33.9
+3	5.4	34.0
+5	6.0	33.4
$\frac{1}{4}$	5.8	33.6
E	5.6	33.8
$\frac{1}{4}$	5.2	34.2
cb	5.2	34.2

294

Xenophon St.

64

S.W.

4.5

34.9

0+30

S.W.

8.0

31.4

cb

9.2

30.2

 $\frac{1}{4}$

8.8

30.6

E

9.3

30.1

 $\frac{1}{4}$

9.2

30.2

+3

9.3

30.1

+5

8.6

30.8

cb

9.0

30.4

N.E.

9.9

29.5

0+50

N.E.

12.1

27.3

cb

11.3

28.1

+4

11.0

28.4

+L

11.6

27.8

 $\frac{1}{4}$

11.4

28.0

E

11.5

27.9

 $\frac{1}{4}$

12.1

27.3

	139.39		
cb		11.3	28.1
S.W		11.4	28.0
T.P	1.20	128.71	11.88
			127.51
		0+70	
S.W		2.1	26.6
+2		3.0	25.7
+4		4.8	23.9
+6		3.0	25.7
cb		3.6	25.1
$\frac{1}{2}$		3.5	25.2
$\frac{1}{4}$		3.3	25.4
+2		3.6	25.1
+3		2.7	26.0
cb		3.0	25.7
N.E		3.6	25.1
		0+90	
N.E		6.4	22.3
cb		5.6	23.1

	28.7	Xenophon St.
+5		5.5
+6		6.2
$\frac{1}{4}$		6.0
$\frac{1}{2}$		6.1
+3		5.6
+5		7.0
$\frac{1}{4}$		5.4
cb		5.7
+1		7.3
+2		5.7
S.W.		4.9
		1+10
S.W		7.5
cb		8.6
+3		8.5
+5		9.5
$\frac{1}{4}$		8.0
+1		8.2
+4		7.8
$\frac{1}{2}$		8.6

128.71

$\frac{1}{4}$	9.0	19.7
+1 $\frac{1}{2}$	9.2	19.5
+4	8.3	20.4
cb	8.3	20.4
NE	8.6	20.1

1+30

NE	11.3	17.4
cb	10.9	17.8
$\frac{1}{4}$	11.4	17.5
$\frac{1}{2}$	11.5	17.2
$\frac{1}{4}$	11.2	17.5
+2	11.0	16.7
cb	11.7	17.0
+1	10.6	18.1
S.W.	9.8	18.9

TP 0.18 118.33 10.56 118.15

1+50

S.W.	2.8	16.5
------	-----	------

183 Xenophon St 66

+3	4.2	14.1
cb	4.7	13.6
$\frac{1}{4}$	4.0	14.3
$\frac{1}{2}$	3.4	14.9
$\frac{1}{4}$	3.5	14.8
cb	3.7	14.6
NE	2.5	15.8

1+53

NE	4.1	14.2
cb	4.5	13.8
$\frac{1}{4}$	4.4	13.9
$\frac{1}{2}$	4.2	14.1
$\frac{1}{4}$	4.7	13.6
cb	4.5	13.8
S.W.	5.3	13.0

1+70

S.W.	6.8	11.5
cb	6.9	11.4
$\frac{1}{4}$	7.2	11.1
$\frac{1}{2}$	7.3	11.0

118.33

$\frac{1}{4}$		6.6	11.7
cb		6.2	12.1
NE		6.1	12.2
	1+90		
N.E		8.7	09.6
cb		9.1	9.2
$\frac{1}{4}$		10.8	7.5
£		10.0	8.3
$\frac{1}{4}$		10.1	8.2
cb		9.0	9.3
S.W		8.8	9.5

2+10

S.W.		12.6	5.7
cb		13.2	5.1
$\frac{1}{4}$		13.2	5.1
£		13.3	5.0
$\frac{1}{4}$		13.1	5.2
cb		12.7	5.6
N.E.		12.4	5.9

1+90 to 3+00
Cont. Ret. Wall on
S.W. line

118.33

Xenophon St

67

TP	0.15	106.35	12.13	106.20
			2+50	
NE			9.6	95.8
cb			8.7	97.7
$\frac{1}{4}$			9.4	97.0
£			10.0	96.4
$\frac{1}{4}$			11.0	95.4
+v			10.6	95.8
cb			10.7	95.7
S.W			9.0	97.4
TP	0.50	93.83	13.0v	93.33

3400 - Locust St

NE		7.0	86.8
cb		7.3	86.5
$\frac{1}{4}$		7.8	86.0
£		8.3	85.5
$\frac{1}{4}$		9.3	84.5
cb		8.9	84.9
S.W		7.6	86.2

93.83

cb (18')

NE		8.9	84.0
cb		10.6	83.2
$\frac{1}{4}$		10.9	82.9
$\frac{1}{4}$		12.0	81.8
$\frac{1}{4}$		12.8	81.0
cb		12.2	81.6
S.W		11.6	82.2

T.P	0.33	81.21	12.95	80.88
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 $\frac{1}{4}$

SW		0.3	80.9
cb		1.7	79.5
$\frac{1}{4}$		2.4	79.0
$\frac{1}{4}$		1.4	79.8
$\frac{1}{4}$		0.7	80.5
cb		0.1	81.1
NE		0.0	81.2

81.2 Xenophon St

68

 $\frac{1}{4}$ Locust

NE		1.3	79.9
cb		1.5	79.7
$\frac{1}{4}$		1.9	79.3
$\frac{1}{4}$		3.1	78.1
$\frac{1}{4}$		3.9	77.3
+1.5		4.8	76.4
+4		3.8	77.4
cb		3.3	77.9
S.W		2.1	79.1

 $\frac{1}{4}$

SW		3.8	77.4
cb		6.1	75.1
$\frac{1}{4}$		6.2	75.0
$\frac{1}{4}$		5.0	76.2
$\frac{1}{4}$		4.2	77.0
cb		3.6	77.6
NE		4.5	76.7
	cb		
NE		5.4	75.8

81.21

cb	5.6	75.6
$\frac{1}{4}$	6.3	74.9
$\frac{1}{2}$	7.3	73.9
$\frac{1}{4}$	7.8	73.4
cb	7.9	73.3
S.W.	5.8	75.4

PL Locust St. = 0+00

SW	9.3	71.9
+14	11.6	69.6
+12.6	11.2	70.0
+17.6	14.2	67.0
cb	11.7	69.5
$\frac{1}{4}$	11.6	69.6
$\frac{1}{2}$	11.1	70.1
$\frac{1}{4}$	10.7	70.5
cb	10.1	71.1
N.E.	9.6	71.6

T.P.	0.63	29.5v	12.3v	69.89
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Xenophon St
69.5v
0+40

69

N.E.	6.0	63.5		
cb	6.4	63.1		
$\frac{1}{4}$	8.0	61.5		
$\frac{1}{2}$	7.9	61.6		
$\frac{1}{4}$	8.7	60.8		
+3	11.3	58.2		
+5	9.0	60.5		
cb	8.6	60.9		
S.W.	6.2	63.3		
T.P.	2.18	57.85	11.85	57.67
			0+80	
S.W.	5.0	54.8		
+16	7.2	52.6		
cb	10.0	49.8		
+3	7.2	52.6		
$\frac{1}{4}$	7.0	52.8		
$\frac{1}{2}$	6.7	53.1		
+1	5.4	54.4		

		59.85		
$\frac{1}{4}$			4.7	55.1
cb			4.1	55.7
NE			3.6	56.2
TP	1.88	49.26	12.47	47.38
		1+20		
NE			4.5	44.8
cb			4.4	44.9
$\frac{1}{4}$			4.5	44.8
$\frac{1}{4}$			5.0	44.3
$\frac{1}{4}$			5.2	44.1
+4			5.0	45.3
+6			7.2	42.1
fb			5.6	43.7
+7			4.4	44.9
S.W			4.0	45.3
T.P	0.18	37.31	12.13	37.13

	37.3	Xenophon 54	
		1+60	
SW		3.3	34.0
+14		2.9	35.4
cb		2.2	35.1
+2		1.8	35.5
$\frac{1}{4}$		1.4	35.9
$\frac{1}{4}$		1.5	35.8
$\frac{1}{4}$		1.2	36.1
cb		0.9	36.4
NE		0.9	36.4
		2+00	
NE		5.9	31.4
cb		6.3	31.0
$\frac{1}{4}$		6.2	31.1
$\frac{1}{4}$		6.2	31.1
$\frac{1}{4}$		6.1	31.2
+4		6.4	30.9
+6		7.2	30.1
cb		7.6	29.7
NE		7.4	29.9

SW line
Rubble Wall on
to 3+00
1+75

37.31

2+40

SW	12.4	24.9
+14	12.9	24.4
+15	13.9	23.4
+17	12.5	24.8
cb	12.1	25.2
$\frac{1}{4}$	11.5	25.8
E	10.9	26.4
$\frac{1}{4}$	10.7	26.6
cb	10.5	26.8
N.E	10.4	26.9

TP 0.43 26.72 10.82 28.49

2+85

XE	3.5	23.4
cb	4.1	22.8
$\frac{1}{4}$	4.3	22.6
E	5.5	21.4
$\frac{1}{4}$	5.5	21.4
+2	6.4	20.5

26.9 Xenophon St

71

cb	7.5	19.4
SW	6.6	20.3
P.L. Rosecrans St = 3+00		
SW	8.7	18.2
cb	8.3	18.6
+2	7.8	19.1
$\frac{1}{4}$	7.1	19.8
E	7.3	19.6
$\frac{1}{4}$	7.6	19.3
cb	7.3	19.6
N.E.	6.3	20.6

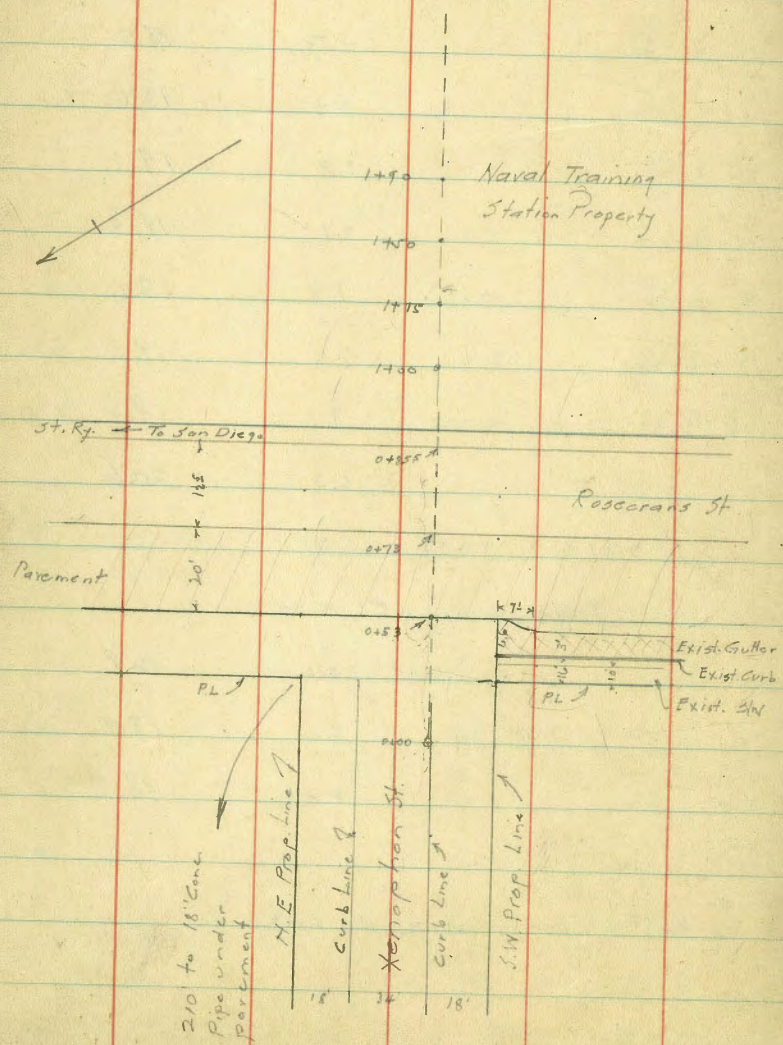
Edge paving = P.L. + 20'

SW	10.0	16.9
E	9.0	17.9
N.E.	8.2	18.7

See drainage on next page

Drainage at Roscorans & Xenophon

72



Stationing	4.36	22.87	18.01	B.M. Roscorans + Xenophon
0+00			6.3	21.1
0+53			4.74	17.65 Top Paving
0+73			4.80	17.6 " "
0+85.5			5.02	17.35 Top Rail
1+00			6.0	16.4
1+15			7.2	15.2
1+50			6.7	15.7
1+90			10.1	12.3

9-26-28 Levels at Intersection of Euclid
 J.C. Bliss
 Drebert and Isla Vista - sketch next page
 Rauner

73

B.M. N.F.B.P. Lantana + Euclid 340.46

+7.98 348.44

-8.56 339.88

+0.61 340.49

-8.03 332.46

+4.96

↑ 337.41

Levels around S.E. Return, beginning 0+00 at South R.C.

0+00 Top 3.98 333.43

Gutter 4.44 332.97

0+20 Top 3.96 333.45

Gutter 4.43 332.98

0+30.8 = East edge Euclid Pump Top 3.97 333.44

Gutter 4.23 333.18

0+40 Top 3.95 333.46

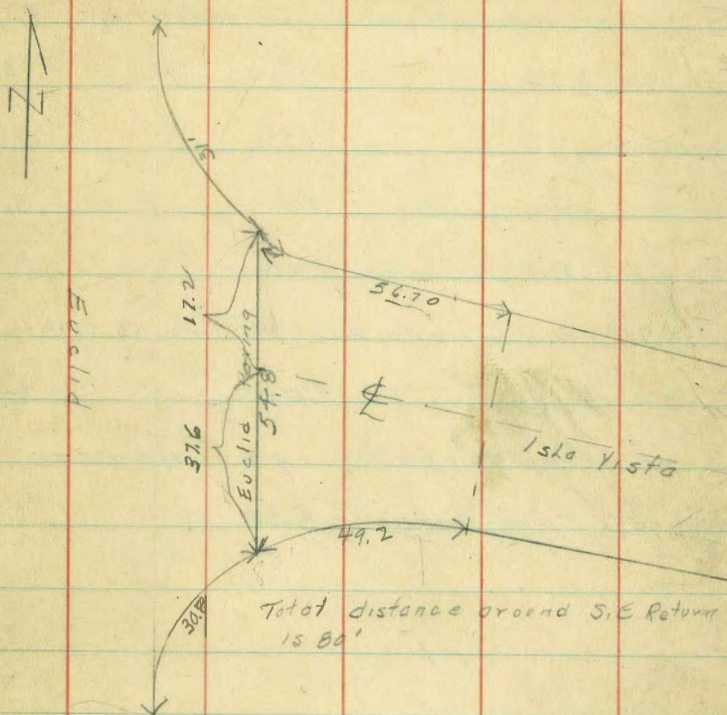
0+60 Top 3.97 333.44

0+80 = East R.C. Return 4.00 333.41

N. E Return 0+00 = North R.C. 331.96

0+00 Top 5.45 331.96

Gutter 5.89 331.52

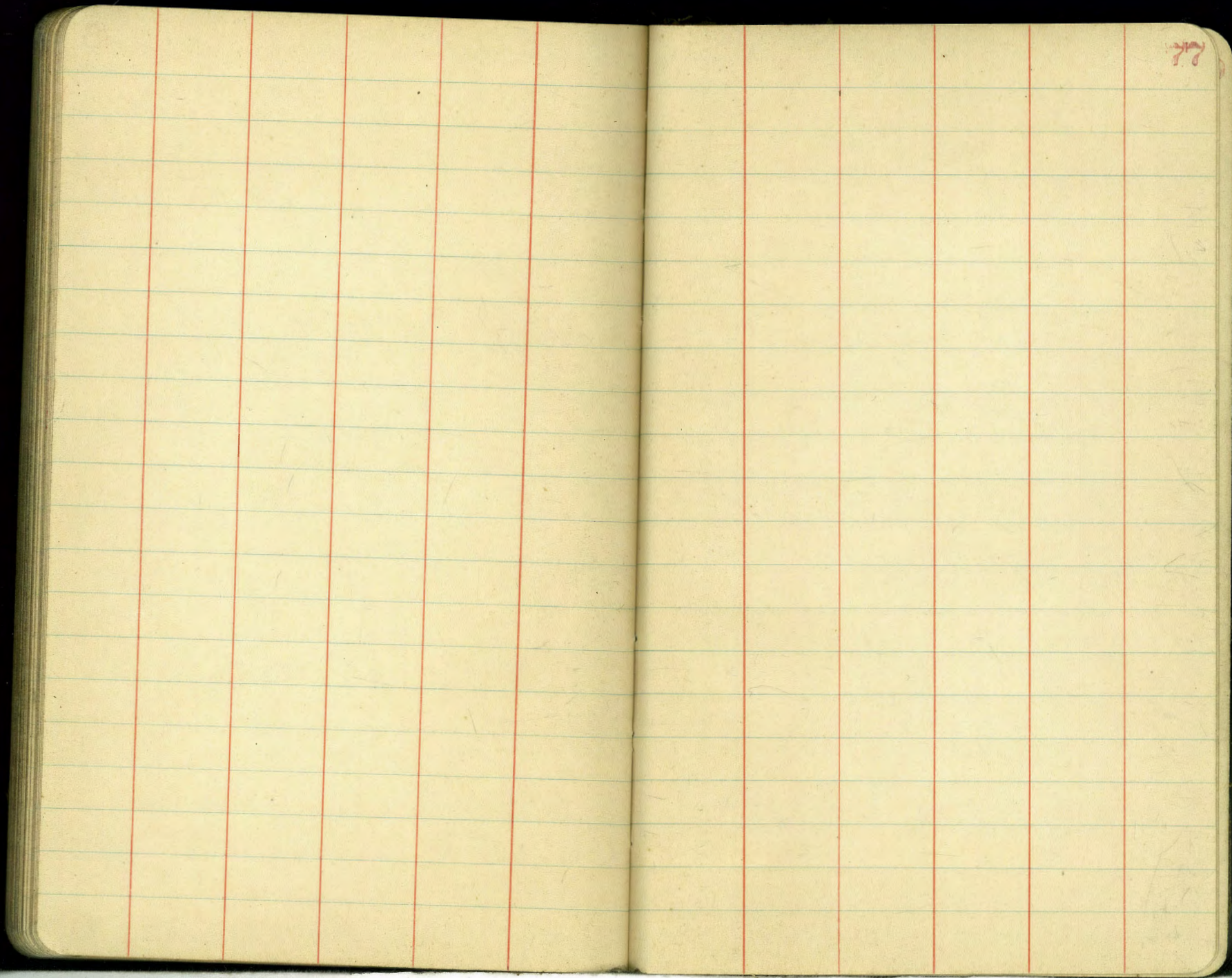


π 337/41

74

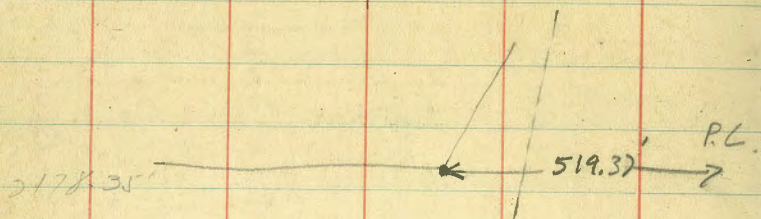
0+15.5 = center N.W. Return-Top	540	332.01
Gutter	571	331.70
0+31 = East edge Euclid paving and East P.C.		8
of Return-Top	549	331.92
Gutter	572	331.69
0+48.5 = Brk in curb-Top	441	333.00
0+68.6 = Brk in curb-Top	395	333.05
0+87.7 = Point opposite East P.C. of S.E. Return		
Top	403	333.38
Shot at intersection of $\frac{1}{2}$ Isla Vista and		
East edge Euclid Paving	530	332.11

75



27

2172.98 - Record.
 2135 - approx. as run.



125
 37
 125
 56
 19

22
 12
 34

66.00 No 10 10

59

26.92
 9.12
 11.80

193

1186

59.3

19.01
 1750
 21

13.26
 190
 15.16
 12.98
 2228

25
 30
 40 to Lot 1
 25
 28
 Little Lane

500 10 H

423 017

93.83

12.95

80.88

33

81.21

12.32

68.89

63

69.52

11.85

57.67

2.18

59.85

12.47

47.38

1.88

49.26

12.13

37.13

18

37.31

10.92

26.49

118.33
 13.02
 105.31

105.81

490

100.91

40 nepton

willow - Roseann

TABLE IX.—CALCULATION OF EARTHWORK.

Table with 15 columns for height (1-15) and 15 rows for width (1-15). Includes handwritten annotations like '53.74', '1/8.33', '1.19', '1.48', '1.78', '2.07', '2.37', '2.67', '2.96', '3.26', '3.56', '3.85', '4.15', '4.44', '4.72', '5.00', '5.28', '5.56', '5.84', '6.11', '6.39', '6.67', '6.94', '7.24', '7.50', '7.76', '8.03', '8.30', '8.57', '8.84', '9.11', '9.38', '9.65', '9.92', '10.19', '10.46', '10.73', '11.00', '11.27', '11.54', '11.81', '12.08', '12.35', '12.62', '12.89', '13.16', '13.43', '13.70', '13.97', '14.24', '14.51', '14.78', '15.05'.

Table gives cu. yds. in 1 ft. of a triangle of given width and height. Corrections for tenths of width are one tenth the values found under each height considering the widths from 1 to 9 as tenths and similarly the corrections for tenths of height are one tenth the figures opposite width considering the heights from 1 to 9 as tenths. Thus if w=16.2 and h=5.3, cu. yds. = 1.48+.028+.089 = 1.597 cu. yds. or practically 160 cu. yds. per 100 ft. If w exceeds 40 ft., use one half and multiply result by 2, if both w and h are large use one half of each and multiply result by 4. Any cross-section may be divided into triangles by the following rule. To the triangle of the sum of the outside cuts (or fills) =h, and 1/2 the roadbed =w, add the triangles formed by taking the distance out to each break in turn (=w's) by the difference between the cuts (or fills) on each side of it (=h's) always subtracting the outer from the inner.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

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

Table with 11 columns (H, 0-.9, H) and 40 rows (0-40). Values represent distances from center line. Includes handwritten annotations like 'Locust 16', '14.813', '10.37', '75', '100.1', '255.70', '2.333', '124', '18'.

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a road 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.