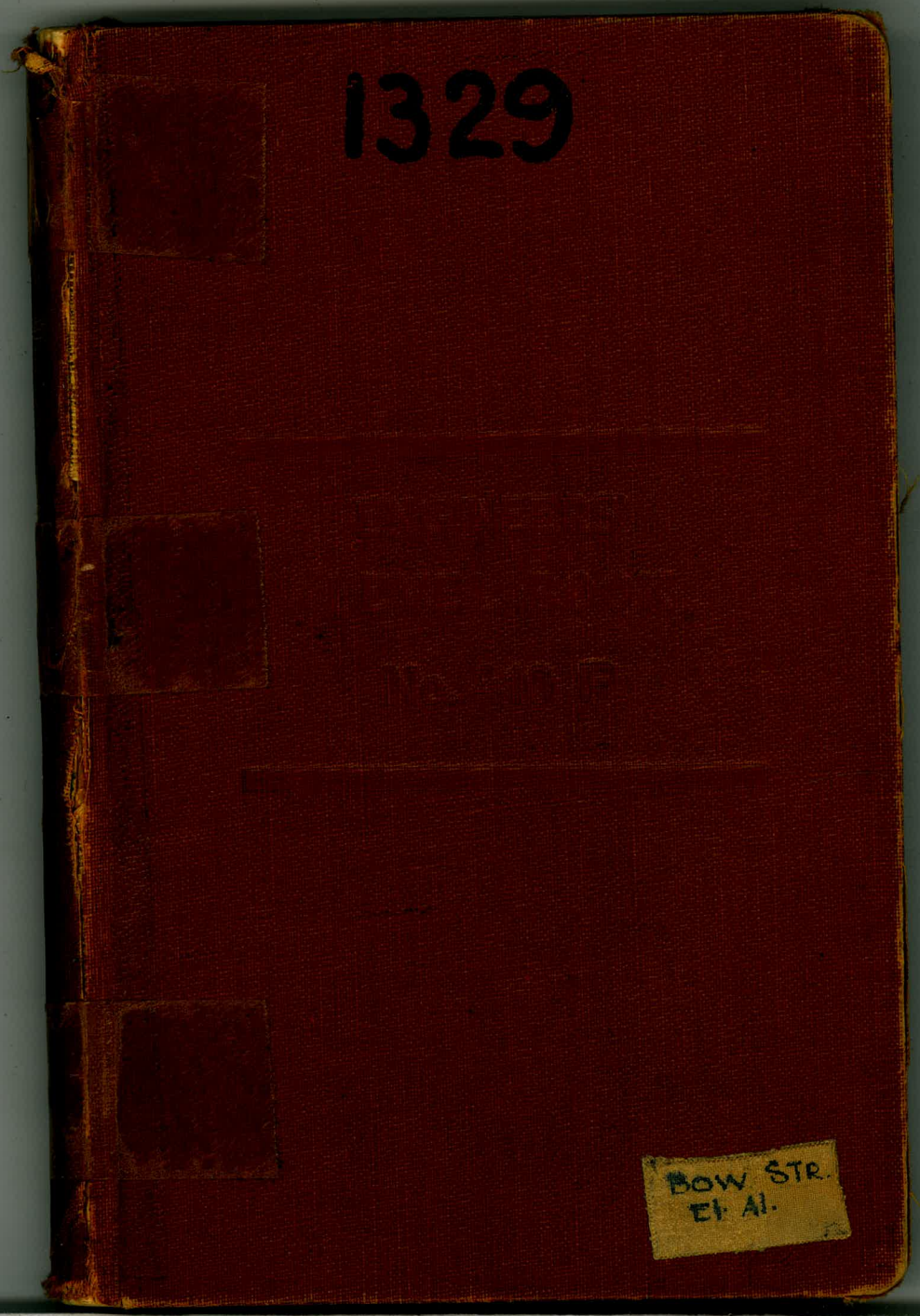

1329
BOW STR.
ET AL.

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)÷2 or 2 ft. added to 30.6 =32.6. For slopes of 1 on 1½ see inside of back cover.

1

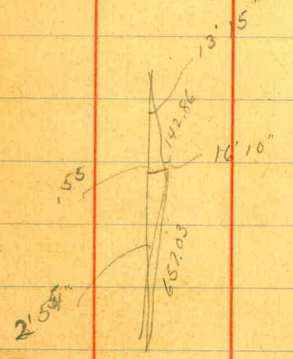
TOM. J ALLEN. C.E.
309 G STR. SAN DIEGO.

BOW STR. ET. AL.
Job #454

INDEX

CITY BENCH MARKS 80

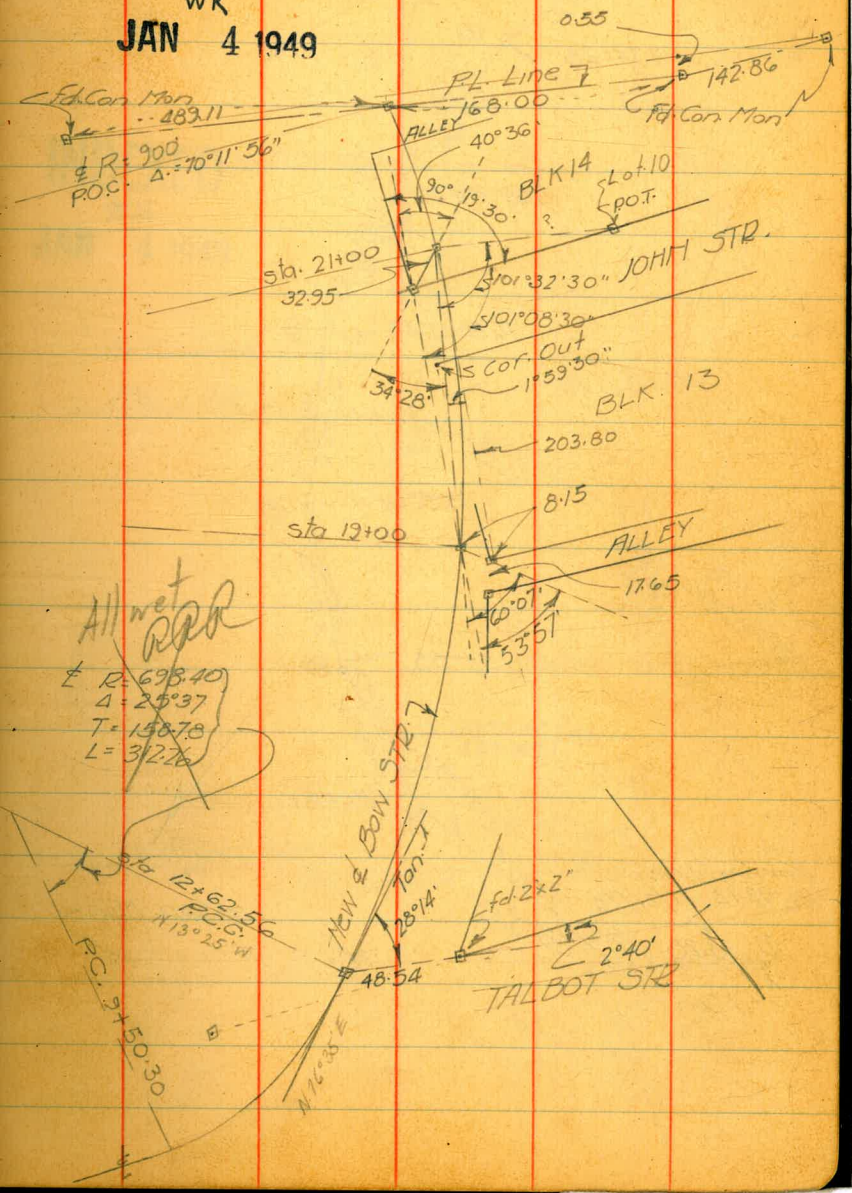
12+62.56
312.26
950.30



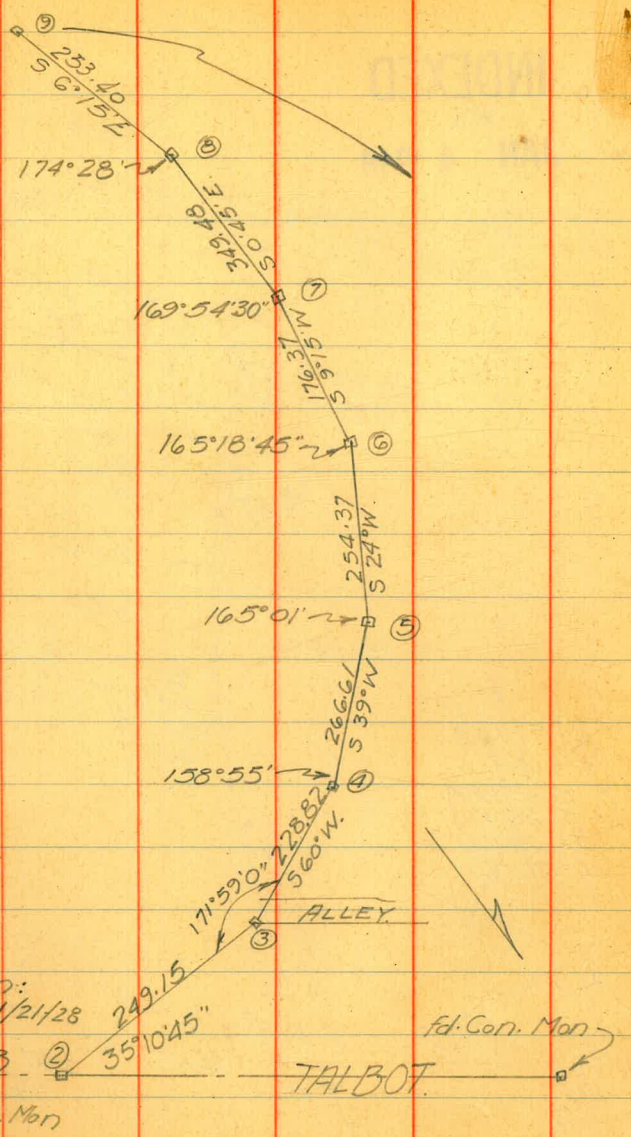
BOW STREET.

TIES TO NEW ALIGNMENT.

1/5/29. Quantity Rodley Franklin

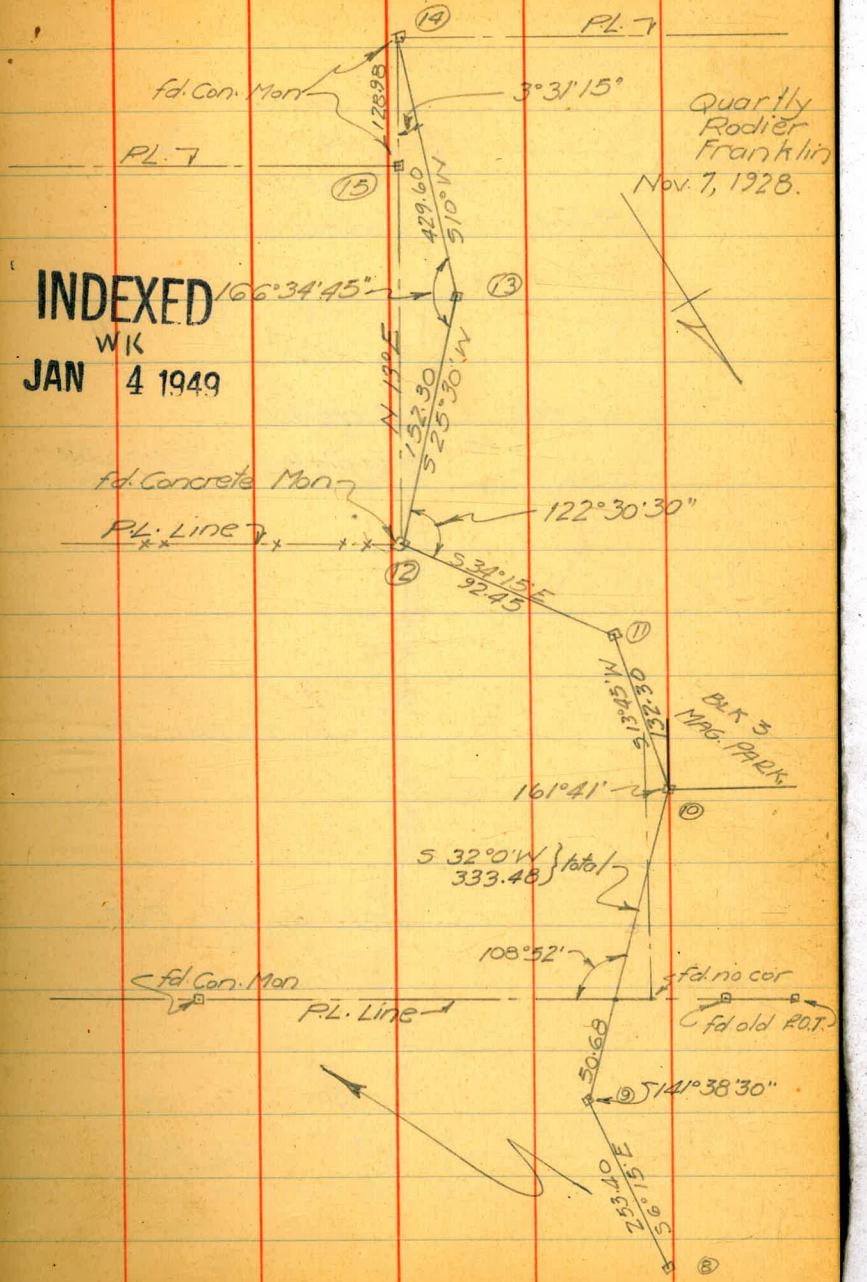


6



PROPOSED RE-ALIG. BOW ST.

4



Quartly
Rodier
Franklin
Nov. 7, 1928.

INDEXED
WK
JAN 4 1949

fd. Con. Mon
130.90
89°35'45"
40.35
fd. old Hub
395.40
SL. 0°0'45"
fd. old Hub — 10TH ST.
235.10
℄ 1HEZ STR.
fd old Hub P.O.T.
102.10
fd. old Hub P.O.T.
204.35
90°09'15"
see page 6
TALBOT.
① fd. Con. Mon

BOW STREET.

PUEBLO LOT TRAVERSES & TIES.

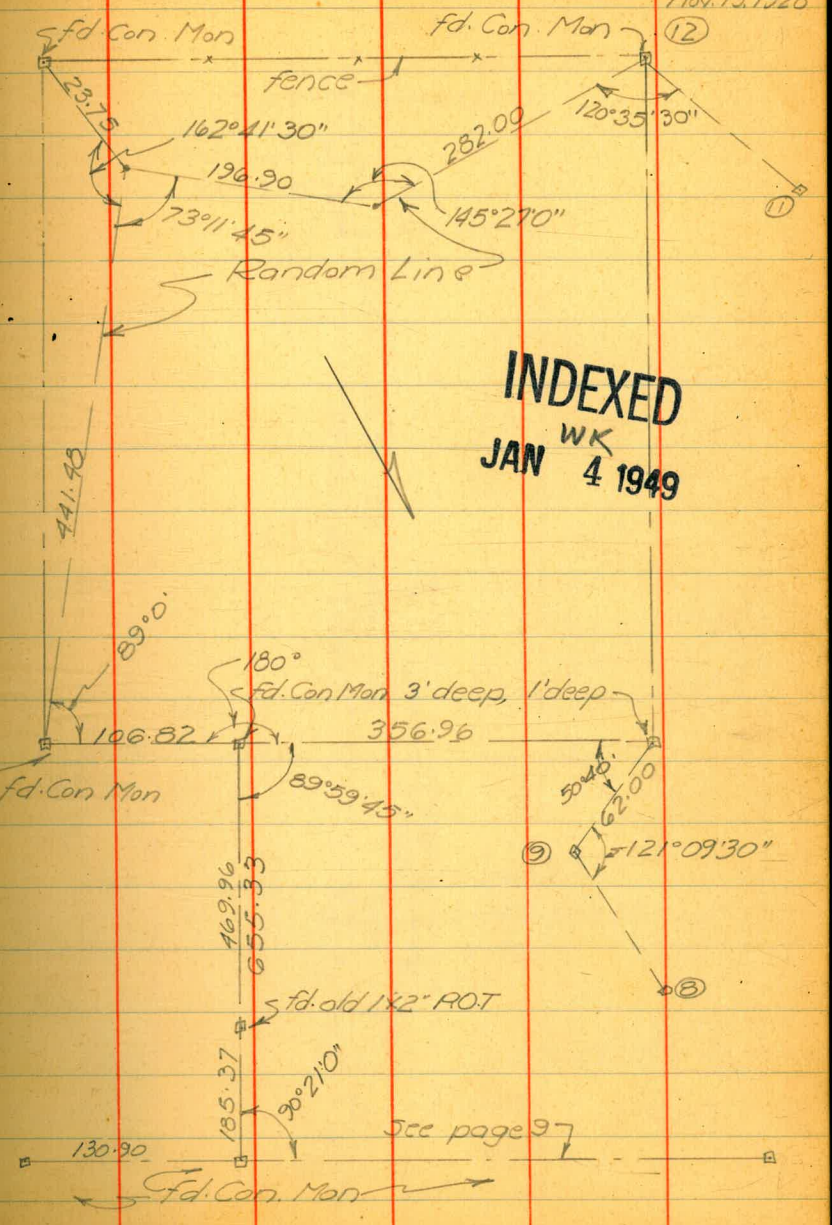
quartly
Rodier
Franklin

Nov. 13, 1928

fd. Con Mon
fd. Con. Mon
see page 6
⑥
⑦ 176.37
68°27'
73.27
25°44'
.38
fd. new 2"x2" Hub
℄ BOW STR.?
420.67
PL. Line
set nail. P.O.T.
111.35
R 0°02'45"
fd. Con. Mon
see page 8
130.90
fd. Con. Mon

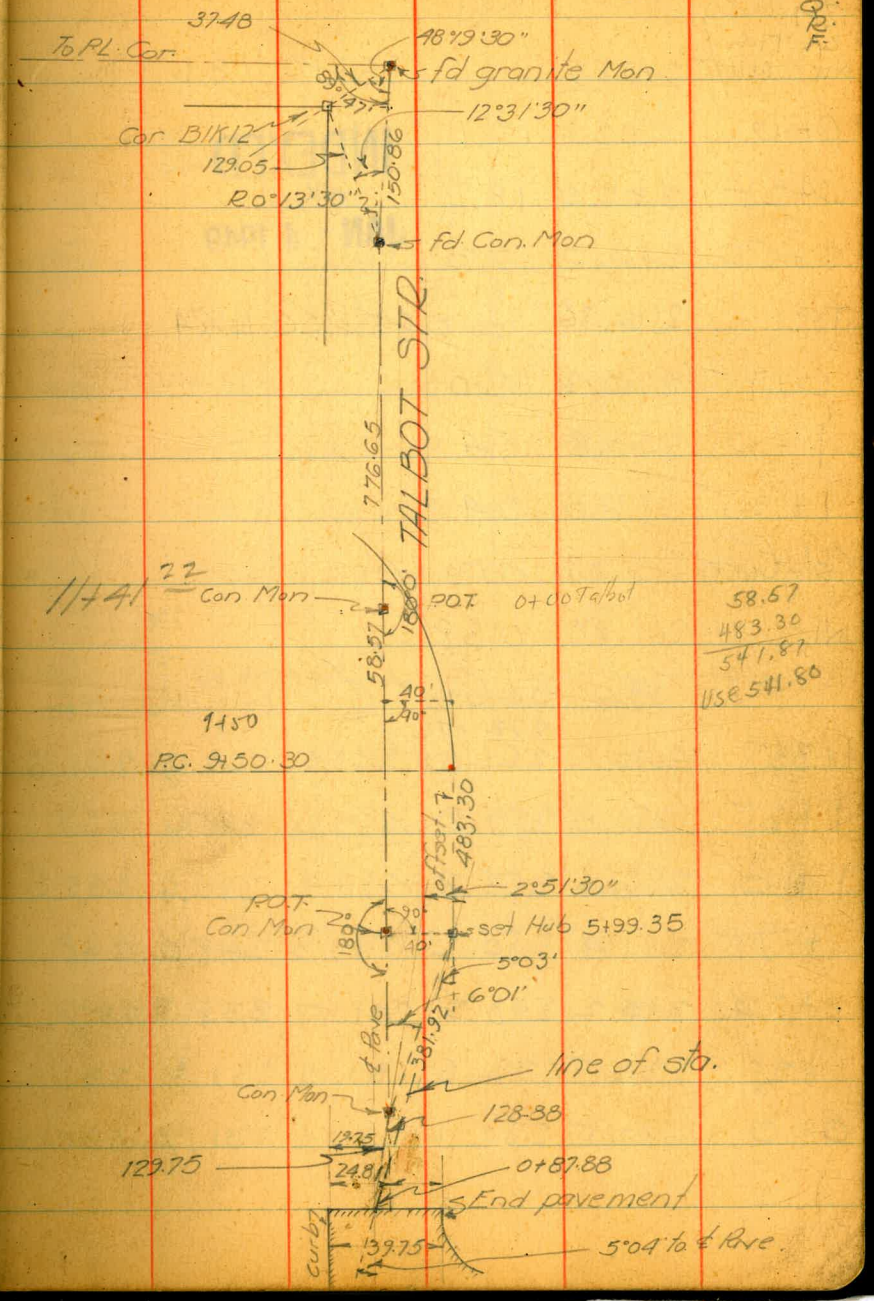
BOW STREET
PUEBLO LOT TRAVERSES.

Quarty
Rodier
Franklin
Nov. 13. 1928



PUEBLO LOT TRAVERSE

Jan. 7. 1929

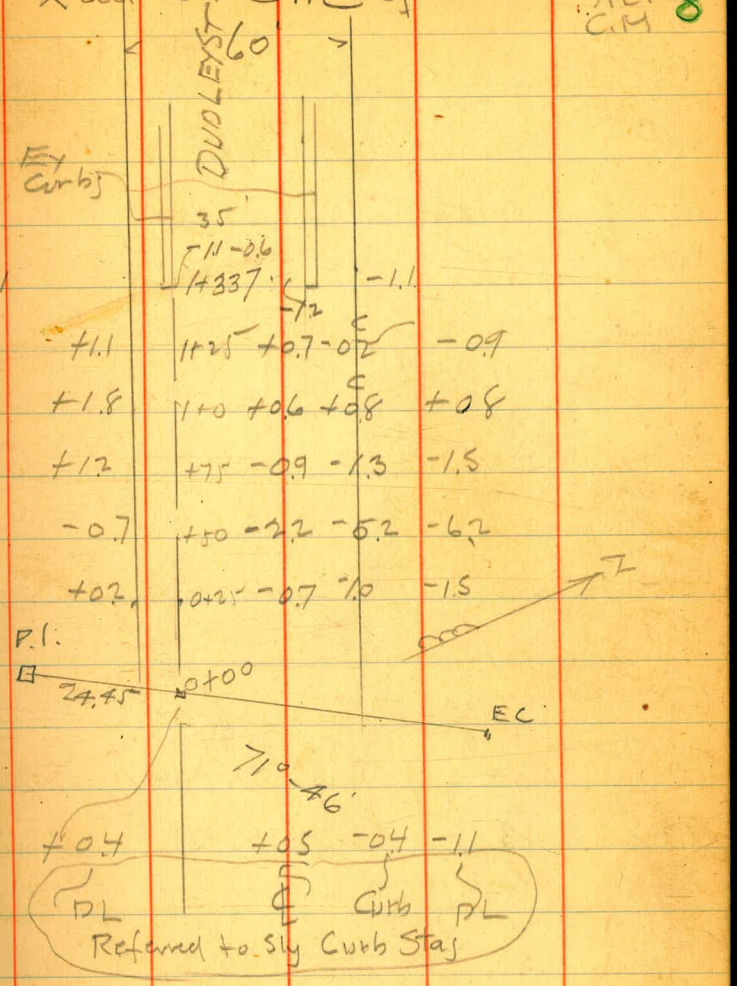


		On Sly Curb Line Rod	−	+
BM Con Mon NW Cor PL16	249.63		251.19	1.36
0+0	232.1	19.1		
0+25	232.5	18.7		
0+50	243.9	7.3		
TP	250.36		0.83	2.20 11.84
0+75	250.2	12.0		
1+0	254.8	7.4		
1+25	250.8	2.4		
Sly Curb	262.07	0.13		
Nly "	261.82	0.38		

	PL	Sly Curb 262.07C	℄	Nly Curb	PL
1+337	263.2	261.05	261.5	260.9	261.0
1+25	260.9	259.8	259.2	259.6	258.9
1+0	256.6	254.8	255.4	255.6	255.0
+75	251.4	250.2	249.3	248.9	248.7
+50	243.2	243.9	241.7	338.7	237.7
+25	232.7	232.5	231.8	231.5	231.2
0+0	232.5	232.1	232.6	231.7	230.6

DUDLEY ST Stairway 1/29/20 AEP CM 8

X sec on site of



1+337	−0.1
1+25	+1.1
1+0	+1.8
0+75	+1.2
0+50	−0.7
0+25	+0.2
0+0	

Job #454

	Elev	–	Ht.		
BM #1	28.05		39.680	11630	
TP	38.151	1.529	50.370	12219	
TP	48503	1.867	61.190	12687	
"	60.995	0.155	73.620	12625	
BM #2	72.050 ✓	1.570	84.307	12257	
BM #3	83.728	0.579	96.759	13031	
BM Mon	96.034	0.725	108.720	12686	
TP	107.957	0.763	120.217	12260	
BM #4	114.218 ✓	5.999	120.298	6080	
TP	119.566	0.732	132.233	12667	
TP	131.444	0.789	143.943	12499	
BM #5	134.945 ✓	(8.998) ✓			
TP	143.773	0.170	156.292 ✓	12519	
BM #6	150.913	5.379	156.297	5384	
TP	155.974	0.323	168.934	12960	
TP	167.114	1.820	180.135	13021	
BM #7	178876	1.259	191.774	12898	
TP	191.586	0.188	202.235 ✓	10649	
		23.887 ✓		198 072 ✓	
		898		4 898	

Up Bow Talbot to Bow

12220

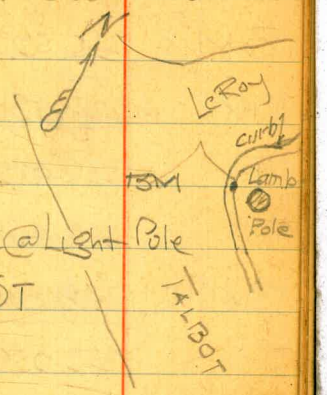
B.M's Circuit

11/15/29 10

Wea. All Cloudy Track EAST

AEF Cecil Morgan

Lead Plug NE @ Rosecrans & Bessemer #1004 Rosecrans



Talbot & LeRoyst SE Curb Cross on Inner edge @ Light Pole

Top P.h Mon Lot 18 Bow ST

Spike N side Jack Pole 150' E of TALBOT Akron Sign

Cypress Tree Base No Side. spike in Notch of N lymost tree 60' E of Palm tree 100 yds SE of Ho's

TALBOT & Bow NW Cor SW Cor of Garage spike 1' up SW Cor

Bow & INEZ 18+00 70' Lt ≠ Hub 100' So of No. edge of Brush

	198.072
–	23.887
	174.185
	28.05
	202 235

	El	−	⊼	✓	+
			202.235		
TP	200.962	1.273	211.173		10 211
BM #8	210.599	0.574	221.681		11 082
BM	221.451	0.230	233.243		11 792
TP	232.479	0.764	244.919		12 440
TP	244.461	0.458	253.912		9 451
BM #10	249.831	4.081	262.132		12 301
TP	262.052	0.080	273.040		10,988
#11 BM Mon	267.898	5.142			
BM Mon	267.942	5.098	278.014		10 072
TP	277.454	0.560	289.681		12 227
TP	289.306	0.375	300.046		10 740
BM #12	294.384	5.662	306.394		12 010
TP	306.110	0.284	318.729		12 619
TP	318.546	0.183	330.548		12 002
TP	329.380	1.168	335.316		5 936
BM #13	329.145	6.171	338.450		9,305
TP	338.369	0.081	344.934		6,565
BM #14	339.147	5.787			
TP	343.929	1.005			169 741
		28.047			665
		5 11 5			

Up Barr St
Sliy on Silver Gate + Fort

249.65 ||

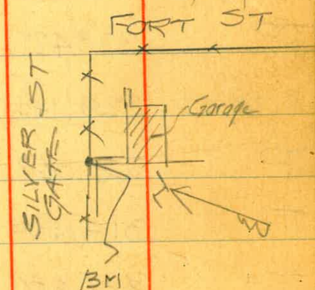
{ 24+15 60'± Rt Hub on Hill slope

27+15± 80'± Rt Spike top {Blazed E side / Eucalyptus Stump}

BM NW Cor P.L. 169 Concr Mon 249.65

BM SW Cor PL 169 267.75

BM SE Cor PL 170 (Fort & Barr) 267.87



FORT + SILVER GATE
Cor Concr wall SPL 60'± West

SILVER GATE & BM @ LANE to Catalina {Top Brick Porch Floor NE Cor next to House} BM #13

Silver Gate N side SE Cor Philosoph Lot Cor Old spike in Fencepost

+ 169 741
− 28.047
141 694
202 235
343 929

Job #454	El	−	x	+
T.P.	343.925		349.817	5 888
"	346.769	3.048	358.051	11 282
BM Mon	357.085	0.966	360.869	3.784
BM (US I.P.	358.217	2.652		
		Return x		
BM	358.217		358.979	0762
T.P.	346.860	12.119	349.925	3065
TP	344.605	5.320	346.123	1.518
BM #14	339.143	6.980		.004
TP	338.422	7.701	338.744	0.322
BM #13	329.141	9.603		.004
TP	329.563	9.181	330.688	1125
TP	318.888	11.800	319.018	0130
TP	306.856	12.162	307.998	1.142
	295.568	12.430	299.708	4140
BM #12 V	294.381	5.327		.003
		76.040		12.204

(Contd)

My along Silver Gate

My on Silver Gate

12220

12 Errors

Conc Mon Silver Gate @ Gov Fence Ph 102

USN 1918 3" Capped bipe @ N gate Post Govfence

Fort ST BM

76.040
12.204
63.836
558217
294.381

	El	−	↑	+
		Cont'd		
BM #12	294.381		297.579	3198
TP	289.588	7.991	294.944	5356
"	293.366	1.578	301.761	8395
BM Plug	292.557	9.204	293.121	0564
TP	283.960	9.161	285.441	1481
BM #15	277.514	7.927	278.232	0718
TP	266.514	11.718	269.525	3011
BM Mon	263.931	5.594	265.200	1269
TP BM	254.452	10.748	255.553	1101
TP	244.970	10.583	245.430	0460
TBM	238202	7.228	238.469	0267
TP	228.186	10.283	230.809	2623
BM #17 Pole	219.401	11.408	226.976	7575
		9.085		
BM Mon	217.891			
BM Mon	224.598	2.378	228.250	3652
TP	215.582	12.668	215.995	0413
"	203.511	12.484	204.082	0571
"	191.564	12.518	193.666	2102
BM #18 Hub	181.353	12.313		42756
		155784		

1/16/29 AEF 13

Wea Rainy Windy Cecil Morgan

BM Fort & Pico Pico

{ 2' ± W of Curb End
Plug Silver Gate S. Curb opp ℄ Charles St

{ JENNINGS @ Silver Gate
Spike E side Jack Pole W side Silver Gate

Conc Mon JENNINGS @ DOVER

DOVER + John SE Blk Cor Hub

Dover @ INEZ SE Blk Cor Hub

Dover & Talbot SW Cor Spike in E side Power Pole

Dover & Talbot Granite Mon

Talbot Conc Mon 150* SE on Talbot

{ Talbot St Slope to Borr N Side
12' W of 30/31 Lot Stake

155.784
42.756
113.028
294.381
181 353

Errors.

	El	−	↑	+	
BM #8	181.353		181.565	0.212	
TP	169.022	12.543	169.163	0.141	
"	156.855	12.308	157.002	0.147	
BM #6	150.879 (913)	6.123			Talbot & Bow SW Cor Garage .034
TP	144.334	12.668	145.768	1.434	
BM #5	134.895 (945)	10.873			Poor Sight .050
TP	133.603	12.165	134.468	0.865	
"	122.154	12.314	123.023	0.869	
BM #4	114.182 (-16)	8.841			Spike N side Jack Pole .036
TP	110.277	12.746	111.217	0.940	
"	98.314	12.903	99.897	1.583	
"	89.235	10.662	89.510	0.275	
BM #3 Mon	83.693 (228)	5.817			.035
TP	76.807	12.703	77.815	1.008	
BM #2 Curb	72.014 (1050)	5.799			{SE Curb Talbot & LeRoy + on inner edge of Curb .036
TP	65.029	12.786	65.303	0.274	
"	53.617	11.686	54.236	0.619	
"	44.930	9.306	48.814	3.884	
	36.261	12.553	37.617	1.356	
BM #1 ✓	28.028 (950)	9.589	✓	13.607 ✓	.022

166.932 − 153.325 = 13.607 ✓

X { 166.932 / 13.607 / 153.325 / 81.353 / 28.028 }

L + TALBOT STR. (83.31)

sta.					
BM #2	83.0 / 0.3 / 31	76.4 ~~77.0~~ / 6.9 / 30	76.71 / 6.60 / 20	75.64 / 7.67 / 20 Cut	
0+87.88					
1+00	83.8 / +0.5 / 33	79.4 / 3.9 / 30	77.1 / 6.2 / 25	76.2 / 7.1 / 18	
1+31		81.4 / 1.9 / 40	78.0 / 5.3 / 30	77.6 / 5.7 / 18	
1+50	82.4 / 0.9 / 40 · 80.1 / 3.2 / 37	79.5 / 3.8 / 30	78.1 / 5.2 / 18	78.1 / 5.2 / 9	
1+75	82.9 / 0.4 / 40 · 80.9 / 2.4 / 36 · 80.7 / 2.6 / 30 · 81.1 / 2.2 / 28	80.0 / 3.3 / 18 · 80.4 / 2.9 / 12	81.6 / 1.7 / 4	77.6 / 5.7 / 3	

(88.75)

sta.					
New BM #3 83.6	81.2 / 5.1 / 40 · 78.7 / 7.5 / 38	80.8 / 10.0 / 30 · 81.0 / 7.9 / 18	82.9 / 7.7 / 9 · 5.8 / 8	82.5 / 6.2 / 1	
2+00					
2+43	88.7 / 0.0 / 40	82.5 / 6.2 / 35 · 81.6 / 7.1 / 30	82.7 / 6.0 / 24	82.8 / 5.9 / 18	
2+50	90.9 / +1.8 / 40 · 86.4 / 1.3 / 34 · 86.9 / 1.8 / 30	86.5 / 2.2 / 24 · 84.8 / 3.9 / 22	84.0 / 4.8 / 18	83.1 / 5.6 / 5	

TALBOT & BON LEROY to FORT

\+ R 16

℄	HI	−	Elev	
11.26	83.31		72.05	
74.95 / 8.36 / 0	74.86 / 8.45 / 20	75.62 / 7.69 / 20	75.7 / 7.6 / 30	
75.5 / 7.8 / 0	75.5 / 7.8 / 18	75.8 / 7.5 / 30	76.4 / 6.9 / 40	
76.7 / 6.6 / 0	76.7 / 6.6 / 4 · 79.0 / 4.3 / 4	78.9 / 4.4 / 7 · 76.3 / 7.0 / 8	76.0 / 7.3 / 18 · 76.2 / 7.1 / 30	76.7 / 6.6 / 36 · 78.6 / 4.7 / 40
80.1 / 3.2 / 0	80.1 / 3.2 / 2 · 76.7 / 6.6 / 2	76.6 / 6.7 / 16 · 80.1 / 3.2 / 18	80.1 / 3.2 / 24 · 76.6 / 6.7 / 24	75.0 / 8.3 / 30 · 76.2 / 7.1 / 37 · 80.4 / 2.9 / 39
77.0 / 6.3 / 0	77.5 / 5.5 / 13 · 81.3 / 2.0 / 15	81.3 / 2.0 / 18 · 81.4 / 1.9 / 27	77.0 / 6.3 / 28 · 77.0 / 6.3 / 30	75.7 / 7.6 / 40 · 81.7 / 1.6 / 42

(88.75) 83.73 BM

℄	HI	−	Elev	
78.0 5.02 / 10.7 / 0	78.2 / 10.5 / 8 · 82.6 / 6.1 / 11	82.5 / 6.2 / 18 · 83.1 / 5.6 / 30	83.1 / 5.6 / 33 · 77.2 / 11.5 / 34	79.7 / 9.0 / 40 · 83.0 / 5.7 / 48
82.8 / 5.9 / 0	79.0 / 9.7 / 6 · 79.1 / 9.6 / 13	84.6 / 4.1 / 14 · 84.9 / 3.8 / 18	85.2 / 3.5 / 28 · 80.6 / 8.1 / 30	85.4 / 3.3 / 40
84.7 / 4.0 / 0	85.3 / 3.4 / 1 · 79.7 / 9.0 / 3	79.4 / 9.3 / 13 · 85.0 / 3.7 / 14	85.3 / 3.5 / 18 · 85.6 / 3.1 / 30	85.6 / 3.1 / 32 · 83.0 / 5.8 / 33 · 85.7 / 3.0 / 40

sta	L (96.0)	+ ℄ — H.I. (95.95) (96.0)	R —	Elev. 83.73 BM# 3
		12.22		
3+00	91.0 5.0/40, 88.9 7.1/35, 89.0 7.0/30, 87.8 8.2/22, 85.0 11.0/21, 85.3 10.7/18	85.2 — 10.8/0	92.2 13.8/1, 82.0 14.0/14, 86.2 8.8/15, 86.8 8.2/18, 88.4 7.6/30, 88.4 7.6/31, 85.7 10.3/32, 87.6 8.4/40	
3+18	91.4 4.6/40, 88.4 7.6/30, 89.0 7.0/27, 86.5 9.5/23, 86.3 9.7/18, 86.5 9.5/10, 89.1 6.9/8, 89.0 7.0/3, 83.8 12.2/1	83.3 12.7/0	82.5 13.5/14, 88.0 8.0/14, 88.9 7.1/18, 89.3 6.7/30, ~~78.8~~ 88.8 7.2/34, 87.9 8.1/37, 88.6 7.4/40	
3+19	91.5 4.5/40, 90.3 5.7/30, 89.7 6.3/26, 87.5 8.5/24, 87.4 8.6/18, 87.8 8.2/15, 89.1 6.9/13, 89.0 7.0/3	" Identical with 3+18 "		"
3+31	91.9 4.1/40, 90.8 5.2/30, 88.5 7.5/27, 87.7 8.3/18, 88.2 7.8/15, 89.9 6.1/14, 89.5 6.5/5, 85.2 10.8/4	83.1 12.9/0	83.7 12.3/8, 89.0 7.0/9, 89.6 6.4/18, 90.3 5.7/21, 88.6 7.4/26, 88.5 7.5/30, 88.5 7.5/37, 89.2 6.8/40	
3+32	92.0 4.0/40, 91.0 5.0/30, 90.3 5.7/18, 89.5 6.5/5	Identical with 3+31		
3+40	91.3 4.7/40, 91.0 5.0/33, 91.9 4.1/32, 91.8 4.2/30, 91.1 4.9/18, 89.9 6.1/8, 86.0 10.0/7	84.0 12.0/0	83.5 12.5/11, 89.5 6.5/12, 90.4 5.6/16, 90.4 5.6/18, 90.8 5.2/27, 89.4 6.6/28, 89.0 7.0/30, 88.7 7.3/35, 89.8 6.2/40	
3+42	91.7 4.3/40, 90.7 5.3/38, 91.2 4.8/32, 92.2 3.8/30, 91.3 4.7/18, 88.8 7.2/17, 88.1 7.9/10	Indentical with 3+40		
3+50	92.0 4.0/40, 92.5 3.5/30, 91.6 4.4/18, 90.9 5.1/3, 85.2 10.8/2	84.3 11.7/0	85.4 10.6/5, 83.3 12.7/5, 83.9 12.1/13, 89.7 6.3/14, 91.0 5.0/17, 91.0 5.0/18, 91.2 4.8/25, 89.6 6.4/27, 89.3 6.7/30, 90.4 5.6/40	
3+65	92.1 3.9/40, 92.9 3.1/30, 91.8 4.2/18, 91.6 4.4/5	88.1 7.9/0	86.0 10.0/3, 85.2 10.8/6, 83.9 12.1/8, 84.3 11.7/15, 91.8 4.2/18, 91.6 4.4/25, 90.4 5.6/30, 91.5 4.5/40	

L

3+80	94.4	93.4	93.2	92.4	92.4	92.5	86.4
	1.6	2.6	2.8	3.6	3.6	3.5	9.6
	40	30	27	24	18	7	7
3+90				94.6	93.9		93.0
				1.4	2.1		3.0
				40	30		18
4+00			95.1	94.1	93.5	93.4	90.3
			0.9	1.9	2.5	2.6	5.7
			40	30	18	5	2
T.P				(105.21)			
4+25			96.4	95.8	95.7	95.2	93.2
			8.8	9.4	10.0	10.0	12.0
			40	30	18	5	4
4+50				98.2	97.1		96.6
				7	8.1		8.6
				40	30		18
5+00	109.4	100.9	99.3	98.8	98.2		92.5
	+4.2	4.3	5.9	6.4	7.0		12.7
	50	30	25	18	9		6
5+23	115.8	104.2	103.2	100.7	101.5	100.8	92.5
	+10.6	1.0	20	4.5	3.7	4.4	12.7
	30	30	24	20	18	13	12
5+35	116.8	106.6	105.2	103.2	101.8	101.8	96.2
	+10.6	+1.4	0	2.0	3.4	3.4	9.0
	50	30	25	22	18	11	8
5+44	117.3	109.7	106.2	102.1	102.2		93.7
	+12.1	+4.5	+1.0	3.1	3.0		11.5
	50	30	20	18	11		7

R

℄	HI								Elev.
	(96.0)								
	85.1	84.3	95.95		92.6	93.3	91.3	91.3	92.0	91.9
	10.9	11.3	4.1	3.9	3.4	3.7	4.7	4.7	4.0	4.1
	0	12	13	18	26	27	30	31		40
	92.7	90.2	85.0	85.0	92.7	92.7	93.5	91.3	91.3	93.9
	3.3	5.8	11.0	11.0	3.3	3.1	2.5	4.7	4.7	2.1
	0	1	7	14	15	18	30	31	33	40
	88.8	86.2	86.1	93.3	93.5	93.7	91.3	91.4	93.2	94.0
	7.2	9.8	9.9	2.7	2.5	2.3	4.7	4.6	2.8	2.0
	0	5	14	15	18	30	31	33	34	40
	91.0	91.1	91.7	92.8	91.1	94.7	93.3	92.50	94.8	92.4	95.2
	9.65	(105.21)		0.39		9556					
	14.2	12.1	18.5	14.4	14.1	10.5	9.9	10.2	10.4	12.8	10.0
	0	4	8	10	16	18	27	30	34	35	40
	96.1	87.6	87.4	96.8	96.7	96.5	93.2	93.0	96.6
	9.1	17.6	17.8	8.4	8.5	8.7	12.0	12.2	8.6
	0	8	13	16	18	30	31	38	40
	91.3	89.8	97.0	99.3	99.7	99.8	99.0	98.8
	13.9	15.4	8.2	5.9	5.5	5.4	6.2	6.4
	0	10	10	14	18	25	30	40
	91.9	90.5	93.0	95.2	99.3	99.9
	13.3	14.7	12.2	10.0	5.9	5.3
	0	3	18	28	30	40
	97.0	91.6	92.9	94.8	96.6	100.8	100.8	100.8
	8.2	13.6	12.3	10.4	8.6	4.4	4.4	4.4
	0	8	16	18	28	29	30	40
	92.6	99.5	96.5	96.0	96.9	101.4	101.6	101.6
	12.4	5.7	8.7	9.2	8.3	3.8	3.6	3.6
	0	8	13	18	22	22	30	40

L

5+50	119.8	111.2	108.5	102.5	102.9	93.4	93.4	102.9
	+13.6	+6.0	+3.3	2.7	2.3	11.8	11.8	2.3
	50	30	25	18	11	10	5	4
T.P.			(105.21)					
		111.8						
5+75	124.4	114.1	106.2	105.1	98.9	102.6	104.0	
	+10	3.0	2.3	7.9	9.0	15.2	11.5	10.1
	50	30	23	18	15	12	11	9
	126.2	116.8	108.2	105.5	103.1	105.9		
5+99.35	+12.1	+2.7	5.9	8.6	11.0	8.2		
	50	30	18	10	6	2		
	129.2	119.0	115.3	109.2	107.4	108.0	105.5	105.8	109.1
	+15.1	+4.9	+1.2	4.9	6.7	6.1	8.6	8.3	5.0
6+50	50	30	24	18	15	13	12	8	7
	134.6	123.6	120.1	111.5	112.1	108.1	108.3	112.2
	+20.5	+9.4	+6.0	2.6	2.0	6.0	5.8	1.9
7+00	50	30	23	18	11	8	4	3
T.P.			(122.18)					
BM #3	131.9	120.2	116.6	114.0	114.5	109.5	111.7	114.7
	+9.7	2.0	5.6	8.2	7.7	12.7	10.5	7.5
7+50	50	30	22	18	14	13	5	3
	130.4	119.2	117.8	115.9	115.1	115.6	112.2	
	+8.2	3.0	4.4	6.3	7.1	6.6	10.0	
7+66	50	30	27	25	18	12	8	
	129.4	121.3	117.7	117.8	112.0	111.7	115.4	
	+7.2	0.3	4.5	4.4	10.2	10.5	6.8	
8+00	50	30	18	14	11	4	3	

R

	℄	H.I.	-	Elev.	
	102.5	(105.21)	101.7	101.8	
	2.7	3.6	3.5	3.4	
	0	18	30	40	
	101.2	(114.15)	1.18	104.03	
	103.8	102.8	103.3	103.0	102.6
	10.3	11.3	10.8	11.1	11.6
	0	18	26	30	40
	106.1	104.8	106.1	106.3	106.8	108.7
	8.0	9.3	8.0	7.8	7.3	7.4
	0	15	15	18	30	40
	109.1	108.2	108.1	108.7	108.6	108.4
	5.0	5.9	6.0	5.4	5.5	5.7
	0	18	20	21	30	40 (114.1)
	112.6	111.2	111.4	111.4		
	1.5	2.9	2.7	2.7		
	0	18	30	40		
	8.77	(122.18)	0.74	113.41	
	115.0	114.8	114 7.96	114.22	BM #3 Jack Pole
	7.2	7.4	7.6	7.0 115.2	7.1 = 115.1
	0	18	24	24 30	40
	110.2	110.4	116.2	116.0	116.1	116.2
	12.0	11.8	6.0	6.2	6.1	6.0
	0	4	5	18	30	40
	1165	1186	1188	1182	1182	1180
	5.1	3.6	3.4	4.0	4.0	4.2
	0	1	11	18	30	40

L

sta (122.18)

	130.7	120.9	118.2	118.5	111.8	111.9	
	+8.5	1.3	4.0	3.7	10.4	10.3	
8+14	50	30	25	15	10	8	

+ ?	131.9 113.9	122.9	122.2	120.5	120.5	113.1	113.4	120.6
	+7.2	+0.7	0	1.7	1.7	9.1	8.8	1.6
8+50	50	30	25	23	18	13	6	5

	131.4	121.9	121.9	117.6	113.8	115.8	123.0	
	+9.2	0.3	0.3	4.6	8.4	6.4	+0.8	
8+79	50	30	18	11	11	2	1	

(135.7)

BM #5	129.5	123.2	122.7	121.7	118.7	114.4	117.4	120.6	123.2
	6.2	12.5	13.0	14.0	17.0	21.3	18.3	15.1	12.5
9+00	50	30	22	18	15	12	10	5	3

	128.5	125.8	116.7	115.9	119.3	124.9	
	7.2	10.4	19.0	19.8	16.4	10.8	
9+33	50	30	18	14	12	8	

	128.3	127.1	126.0	125.7	123.0	121.6	116.4	118.2	125.6
	6.4	8.6	9.7	10.0	12.7	14.1	19.3	17.5	10.1
9+41	50	42	30	29	28	18	15	7	5

	129.3	127.1	126.9	125.2	125.2	116.7	118.2	125.6
	6.4	8.6	9.7	10.5	10.5	19.0	17.5	10.1
9+42	50	42	30	18	17	15	7	5

	129.0	126.3	125.8	125.9	122.5	116.9	116.7	126.5
	6.7	9.4	9.9	9.8	13.2	18.8	19.0	9.2
9+50 P.C. 30	50	30	18	14	13	11	4	2

	137.7	130.1	129.4	128.8	123.1	119.2	120.4	128.9
	+2.0	5.6	6.3	6.8	12.6	16.5	15.3	6.8
10+05	50	30	18	16	15	9	4	2

BOX + TALBOT

℄ H.I. 0.

(122.18)

119.1	119.3	118.6	118.3	118.2	118.9	118.3	118.7
3.1	2.9	3.6	3.3	4.0	3.3	3.3	3.5
0	12	13	18	25	26	30	40

121.1		121.6	120.7	120.6	121.1	121.3	121.0
1.1		0.6	1.5	1.4	1.1	0.9	1.2
0		13	14	18	26	30	40

122.5		122.2	122.2	121.9	122.7	122.4	122.4
+0.8		0	0	0.3	+0.5	+0.2	+0.2
0		13	18	25	26	30	40

123.9 124.0 123.4

0.72 (135.66) 123.3 123.2 13494 124.1 124.2

11.8	11.7	12.3	12.4	12.5	11.6	11.6	11.5
0	12	13	18	24	26	30	40

125.6	125.8	125.1	125.1	124.9	125.6	125.7	125.7
10.1	9.9	10.6	10.6	10.8	10.1	10.0	10.0
0	11	12	18	24	25	30	40

126.1		126.3	125.7	125.7	126.3	126.2	126.6
9.6		9.4	10.0	10.0	9.4	9.5	9.1
0		10	18	24	25	30	40

Identical with 9+41

126.6	126.3	126.4		126.7
9.1	9.4	9.3		9.0
0	18	30		40

129.3		129.7	130.3	130.7
6.4		6.0	5.4	5.0
0		18	30	40

L

Sta.						
	(135.7)					
	137.7	131.6	128.8	126.5	123.1	119.6
	+2.0	4.1	6.9	9.2	12.6	16.1
10+07	50	30	21	18	10	9
	140.0	135.7	132.4	131.1	126.1	125.4	120.6
	+4.3	0.0	3.3	4.6	9.6	10.3	15.1
10+28	50	33	30	25	18	6	6
	143.1	135.3	133.3	126.9	126.8	125.5	120.0
	+7.4	0.4	2.4	8.8	8.9	10.2	7.7
10+49	50	30	25	18	12	10	2
	143.1	134.5	133.7	128.1	127.8	127.9	131.1
	+7.4	1.2	2.0	7.6	7.9	7.8	4.6
10+50	50	30	27	23	18	15	14
	(141.1)					
T.P.	145.7	142.9	136.6	136.4	130.0	130.1	132.2	134.3
	+4.6	+1.8	4.5	4.7	11.1	11.0	8.9	6.8
11+00	50	40	30	28	23	19	18	12
	150.5	139.0	137.4	131.5	132.2	133.2	136.7
	+9.4	2.1	3.7	9.6	8.9	7.9	4.4
11+50	50	30	26	23	18	17	14
	(150.1)					
T.P.	148.1	147.0	140.1	138.6	132.5	132.7	136.5	138.6
	2.0	3.1	10.0	11.5	17.6	17.4	13.6	11.5
11+80	50	43	34	30	25	18	15	12
	147.3	144.4	144.0	136.5	137.9	134.5	137.1	137.1	136.4	141.1
	2.8	7.7	6.1	13.6	12.2	15.6	13.0	13.0	13.7	9.0
12+0	50	35	30	28	25	18	16	10	5	4

R.

℄ +	HI	-	Elev.
121.1	(135.66)		
14.6			
0	Identical with 10+05		
121.4	125.3	130.9	131.0	131.4	132.8
13.3	11.4	4.8	4.7	3.3	2.9
0	7	11	18	30	40
130.7	132.0	133.2	134.3		
5.0	3.7	2.5	1.4		
0	18	30	40		
	Identical with 10+49				
134.1	134.2	135.7	136.8	137.5	
9.19	(141.08)	3.77		(137.89)	
7.0	6.9	5.7	4.3	3.6	
0	16	18	30	40	
136.9	136.7	138.3	140.4	140.4	141.0	
4.2	4.4	2.8	0.7	0.7	0.1	
0	18	20	28	30	40	
12.22	(150.12)	3.18		137.90		
10.9	9.8	10.9	10.8	9.9	8.2	8.4	6.3
0	10	13	18	26	27	30	40
139.2	140.3	139.2	139.3	140.2	141.9	141.7	143.8
141.2	147.0	142.1	141.2	142.1	143.4	144.3	
8.9	8.1	8.0	8.9	8.0	6.7	5.8	
0	6	16	18	30	33	40	

L

Sta (150.1)

12+12	146.3	146.0	142.0	134.6	135.8		143.2	142.7	138.7
	3.8	4.1	7.8	8.1	15.5	14.3	6.9	7.4	11.4
	50	40	37	32	30	21	19	18	9	7
12+19	145.6	145.1	135.8	135.1	134.8	139.1	144.7	144.9	143.1
	4.5	5.0	14.3	15.0	15.3	11.0	5.4	5.2	7.0
	50	40	35	30	25	22	20	18	1
12+43	145.1	144.3	138.6	135.7	136.3	142.5	143.1		
	5.0	5.8	11.5	14.4	13.8	7.6	7.0		
	50	40	38	32	30	23	18		
12+50				144.6	144.2	144.5			
				5.5	5.9	5.6			
				40	30	18			
12+62.56 R.C.				145.3	144.8	145.1			
				4.8	5.3	5.0			
				40	30	18			

(156.3)

T.P

B.M.#6	145.3	144.0	142.8	144.2	144.3	145.0			
	11.0	12.3	13.5	12.1	12.0	11.3			
12+90	50	43	40	38	30	18			
13+00				144.6	144.7	145.1			
				11.7	11.6	11.2			
				40	30	18			
13+25	145.6	145.7	145.7	147.0					
	10.7	10.6	10.6	9.3					
	40	30	24	18					

R

℄	HI 143.9		Elev			
138.3	142.7	(150.12)	143.4	143.5	144.6	145.9
11.8	7.4	6.2	6.7	6.6	5.5	4.2
0	2	12	18	30	40	43
141.1	138.8	143.4	144.7	144.5	145.1	146.1
9.0	10.3	6.7	5.4	5.6	5.0	4.0
0	6	7	10	18	30	40
145.5	146.3		146.7		147.6	
4.6	3.8		3.4		2.5	
0	18		30		40	
145.3	146.8	147.6		148.5		
4.8	3.3	2.5		1.6		
0	18	30		40		
146.4	148.1		148.8	148.5	149.1	149.2
3.7	2.0		1.3	1.6	1.0	0.9
0	18		26	27	30	40
9.85	(156.31)		3.66	146.46		
			5.39	150.92	BM	
9.2	6.0		5.1	5.5	5.2	4.9
0	18		25	30	39	40
147.1	150.3		151.2	150.8	151.1	151.4
148.9	151.2		151.3	151.2		153.2
7.4	5.1		5.0	5.1		3.1
0	18		25	30		42
151.8	153.2		153.5	153.4	153.6	155.2
4.5	3.1		2.8	2.9	2.7	1.1
0	9		18	30	36	40

	℄ (156.3)				
	146.8	151.6	152.3		
	9.5	4.7	4.0		
13+50	40	30	18		
	(164.0)				
T.P.	148.4	148.0	149.4	152.0	154.0
	15.6	15.1	14.6	12.0	10.0
13+65	40	30	28	20	18
	149.2	152.5	154.8	156.2	
	14.8	11.5	9.2	7.8	
14+00	50	37	30	18	
	156.4	158.3	159.3		
	7.6	5.7	4.7		
14+50	50	30	18		
	(171.6)				
T.P.	149.9	149.9	~~156.9~~ 159.7	160.3	
	21.7	21.7	14.7	11.9	10.7
15+00	50	47	42	30	18
	152.8	151.2	151.2	155.0	159.4	161.0	161.4
	18.8	20.4	20.4	16.6	12.2	10.6	10.2
15+50	40	38	31	30	22	22	18
	162.0	152.0	152.6	160.6	162.3		
	9.6	19.6	19.0	11.0	9.3		
15+75	50	40	35	30	18		
	162.6	153.0	162.0	163.3			
	9.0	18.6	9.6	8.3			
16+09	50	40	30	18			

	℄	R				
	H.I. 155.3		Elev.			
	154.5	156.31	154.4	155.2	156.3	157.5
	1.8	1.0	1.9	1.1	0.0	+1.2
	0	17	18	30	33	40
		(164.0)				
	9.47	163.94	1.84	154.47		
	7.8	8.0	9.0 8.2	7.8	6.6	6.1
	0	15	17 18	26	30	40
	156.2	156.0	155.6 155.8	156.2	157.4	157.9
	157.7	158.0	156.0 158.2	158.5	159.7	159.8
	6.3	6.0	7.1 5.8	5.5	4.3	4.2
	0	8	10 12	18	30	40
	160.6	161.0	159.4 159.8	161.0	162.1	162.6	163.6
	3.4	3.0	4.4 4.2	3.0	1.9	1.1	0.4
	0	4	5 7	9	18	30	40
		(171.6)					
	9.32	171.56	1.70	162.24			
	9.0	8.8	8.7	8.2	6.9	6.2	
	0	9	16	18	30	40	
	162.6	162.8	162.9	163.4	164.7	165.4	
	162.6	163.8	164.2	164.2	165.8	166.1	
	9.0	7.8	7.4	6.4	5.8	5.5	
	0	18	24	30	34	40	
	163.1	164.6	164.4	166.1	165.3		
	8.5	7.0	6.2	5.5	5.3		
	0	18	30	34	40		
	164.5	165.8	166.7	166.7	166.8		
	7.1	5.8	4.9	4.9	4.8		
	0	18	27	30	40		

L

sta | HI 171.6

sta					
	153.0	152.2	152.3	156.2	
	18.6	18.4	18.3	15.4	
16+10	40	30	25	18	
		162.9	158.6	157.2	158.6	155.5
		8.7	13.0	14.4	13.0	16.1
16+24		40	37	30	18	15
	163.6	161.4	161.3	162.3	164.6	158.0
	8.0	10.2	10.3	8.2	7.0	13.6
16+26	40	37	32	30	10	5
						165.1
						6.5
16+29	Identical with 16+26					5
16+30	"	"		16+29		
			166.5	165.0		164.4
			5.1	6.6		7.2
16+43			40	30		18
16+44	Identical with 16+43					
			167.3	166.7		165.3
			3.7	4.9		6.3
16+58			40	30		18
			167.9	166.6		165.7
			3.7	5.0		5.9
16+60			40	30		18

R

sta | HI 171.56

sta						
	162.6	164.6	165.7	166.8	166.4	166.8
	9.0	7.0	5.9	4.8	5.2	4.8
	0	1	18	28	30	40
	154.3	154.7	160.7	165.8	167.3	166.9
	17.3	16.9	10.9	5.8	4.3	4.7
	0	9	13	18	30	40
	156.0					
	15.6					
	0	Identical with 16+24				
			171.6			
	157.8	154.3	159.6	162.1	166.0	167.1	167.0
	13.8	16.7	12.0	9.5	5.6	4.5	4.6
	0	10	15	18	19	30	40
	165.2						
	6.4						
	0	Identical with 16+29					
	165.3	165.8	154.2	160.6	162.1	163.3	166.0	167.3	167.4
	6.3	5.8	16.4	11.0	9.5	8.3	5.6	4.3	4.2
	0	9	10	16	18	20	21	30	40
			159.5	166.0					
			12.1	5.6					
	"		15	17	"	"	"	"	"
	165.6	166.3	154.3	155.3	161.1	163.1	165.5	166.3	167.2	167.5
	6.0	5.3	16.3	16.3	10.5	8.5	6.1	5.3	4.4	4.1
	0	6	8	13	14	16	18	20	30	40
	165.8	166.3	155.6	156.0	162.1	165.3	167.6	168.6
	5.8	5.3	16.0	15.6	9.5	6.3	4.0	3.0
	0	8	8	15	21	40	42	50

L

Sta			
	(171.6)		
	168.2	167.1	166.4
	3.4	4.5	5.2
16+68	40	30	18
16+69	Identical	with	16+68
	169.0	167.8	167.1
	2.6	3.8	4.5
16+80	40	30	18
	169.3	168.1	168.0
	2.3	3.5	3.6
17+00	40	30	18
	170.6	170.4	170.3
	1.0	1.2	1.3
17+50	40	30	18
	(181.2)		
T.P			
BM #7	175.5	174.3	173.9
	5.7	6.9	7.3
18+00	40	30	18
	178.7	178.1	177.4
	2.5	3.1	3.8
18+50	40	30	18
	(189.6)		
T.P.	181.9	182.0	182.0
	7.7	7.6	7.6
19+00	40	30	18

R

℄	H.I.					
	171.56					
165.3	160.9	156.8	156.9	158.8	166.5	168.1
5.3	4.7	14.8	14.7	12.8	6.1	3.5
0	13	20	30	40	50	52
166.4	166.6	161.5	160.6	166.8	167.5	167.5	157.8	159.1	168.2
5.2	5.0	10.1	11.0	4.8	4.1	4.1	13.8	12.5	3.4
0	18	19	22	23	30	32	35	42	47
166.8	167.2	166.8	162.9	166.8	166.4	167.3	158.3	159.9	168.3
4.8	4.4	4.8	8.7	4.8	4.2	4.3	13.3	11.7	3.3
0	18	23	25	27	30	35	40	49	52
167.6		168.0		168.0	168.2				
4.0		3.6		3.6	3.4				
0		18		30	40				
171.0		170.8		170.8	170.5				
0.6		0.8		0.8	1.1				
0		18		30	40				
10.32	(181.17)		0.71		170.85				
			2 28		178.89				
7.8	7.4		6.8		7.2				
0	18		30		40				
173.4	173.8		174.4		174.0				
171.0	177.3		176.8		175.9		171.6		
4.2	3.9		4.4		5.3		9.6		
0	18		30		37		40		
10.19	189.58		1.78		179.39				
		179.9	179.0	180.1	179.6	179.2	"	172.6	
8.4	9.0	10.3	10.7	10.6	9.5	10.0	10.4	17.0	17.0
0	12	13	18	20	21	30	36	38	40

181.2 189.6 179.3

L

189.6

	185.6	185.6	185.1
	4.0	4.0	4.5
19+43	40	30	18

	186.6	186.3	185.8	183.8	183.5	184.2
	3.0	3.3	3.8	5.8	6.1	5.4
19+50	40	30	24	18	12	9

	186.5	186.6	186.4	183.8	183.2	182.2
	3.1	3.0	3.2	5.8	6.4	7.4
19+55	40	30	26	20	18	8

	187.9	185.4	184.9	184.6	185.2
	1.7	4.2	4.7	5.0	4.4
19+63	40	34	30	18	11

	187.0	190.1	189.6	188.6
	2.6	+0.5	0.0	1.0
20+00	40	37	30	18

198.5

T.P.	191.7	191.0	190.1
	6.8	7.5	8.4
20+30	40	30	18

	193.0	192.5	191.8
	5.5	6.0	6.7
20+50	40	30	18

	196.9	196.0	196.0
	1.6	2.5	2.5
21+00	40	30	18

	200.5	199.4	198.3
	+2.0	+0.9	0.2
21+50	40	30	18

R

189.58

	184.3	182.6	181.0	180.5	180.5	182.4	181.6	181.4	175.4
	5.3	7.0	8.6	9.1	9.1	7.2	8.0	8.2	14.2
	0	12	14	18	22	25	30	34	40

	181.4	180.8	180.7	182.6	182.1	181.7	176.7	176.7
	8.2	8.8	8.9	7.0	7.5	7.9	12.9	12.9
	0	18	21	25	30	34	35	40

	181.7	181.2	180.8	183.4	182.4	182.2	177.2	177.2
	7.9	8.4	8.8	6.2	7.2	7.4	12.4	12.4
	0	18	22	26	30	34	35	40

	184.8	182.5	180.3	180.3	183.5	183.1	183.1	178.2	
	4.8	6.1	9.3	9.3	6.1	6.5	6.5	11.4	
	0	16	18	23	25	30	37	40	

	187.1	186.2	184.1	183.0	180.0	180.6	183	185.1	185.0	184.4	
	2.5	3.4	5.5	6.6	9.6	9.0	4.3	4.5	4.6	4.2	
	0	11	14	18	20	25	27	30	36	30	

10.01 (1985.3) 1.06 188.52

10.0	14.7	15.0	10.7	12.1	18.1	18.1	18.1	11.8	11.6
0	5	15	18	28	29	30	35	37	40

188.5	183.8	183.5	187.8	186.4	"	190.9	180.4	186.7	186.9		
190.1	189.7	188.4	180.1	188.5	187.7	"	185.9	186.2	183	169.1	
8.4	8.8	10.1	9.4	10.0	10.8	13.5	13.5	16.3	16.3	9.8	9.4
0	7	11	14	18	24	27	30	33	37	38	40

193.5	192.1	188.2	184.1	183.1	186.9	191.4	192.5	196.1
5.0	6.4	10.3	14.4	15.4	11.6	7.1	5.6	2.4
0	13	16	18	27	30	33	38	40

196.8	195.6	191.5	187.8	185.2	186.8	198.3	
1.7	2.9	7.0	10.7	13.3	11.7	0	
0	15	18	20	25	30	40	

Sta		L					R				
							E.	H.I.			
			(207.4)					19853			
T.P.		202.5	201.8	200.7			9.13	(207.39)	0.27	198.26	
		4.9	5.6	6.7			7.8	10.3 9.9	11.5	18.7 18.7	9.6
22+00		40	30	18			0	18 21	21	30 35	40
							199.6	199.1 197.5	195.3	188.7	197.8
							199.8	198.6	198.3	196.7 199.8	198.2
22+14		"	"	"			7.6	8.8	9.1	10.7 9.6	9.2
							0	18	26	30 37	40
		203.0	202.0	200.9			199.2	199.0	199.1	199.0	
		4.4	5.4	6.5			8.2	8.4	8.3	8.4	
22+50		40	30	18			0	18	30	40	
		203.1	203.0	201.9			200.5	200.1	200.3	200.4	
		4.3	4.4	5.5			6.9	7.3	7.1	7.0	
23+00		40	30	18			0	18	30	40	
		208.6	206.9	205.6			203.3	201.6	201.4	201.6	
		+ 1.2	0.5	1.8			4.1	5.8	6.0	5.8	
23+50		40	30	18			0	18	30	40	
			(216.4)								
T.P.							9.94	(216.39)	0.94	206.45	
BM#8		209.5	208.7	207.2					5.80	210.59	
		6.9	7.7	9.2			10.7	12.7	12.8	13.5	
24+00		40	30	18			0	18	30	40	
		210.1	209.4	208.2			205.7	203.7	203.6	202.9	
		6.3	7.0	8.2			207.1	205.8 204.7	205.8	205.1	205.0
24+50		40	30	18			9.3	10.6 11.7	10.6	11.3	11.4
							0	12 15	18	30	40
		211.2	210.4	209.7			208.8	207.3 206.5	207.8	206.7	207.6
		5.2	6.0	6.7			7.6	8.9 9.9	8.6	9.5	8.8
25+0		40	30	18			0	14 18	21	30	40

		L		
		(216.4)		
		214.4	214.4	213.8
		2.0	2.0	2.6
25+50		40	30	18
		217.9	216.8	216.5
		+1.5	+0.4	+0.1
26+00		40	30	18
		(226.3)		
T.P.		220.2	219.5	218.3
		6.1	6.8	8.0
26+50		40	30	18
		223.9	222.9	221.6
		2.4	3.4	4.7
27+00		40	30	18
		225.7	225.0	223.9
		0.6	1.3	2.4
27+50		40	30	18
		226.8	226.3	225.2
		+0.5	0.0	1.1
28+00		40	30	18
		(232.9)		
T.P.		227.0	226.0	225.1
		5.9	6.9	7.8
28+50		40	30	18
		226.9	226.2	225.3
		6.0	6.7	7.6
29+00		40	30	18

		R			
	℄	H.I.	-	Elev	
		(216.39)			
	3.8	4.8 6.6	6.1	6.2	6.8
	0	14 18	25	30	40
	212.6	211.6 209.8	210.3	210.2	209.6
	215.3	213.9 213.3	211.9	211.8	211.6
	1.1	2.5 3.1	4.5	4.6	4.8
	0	18 23	27	30	40
		✓		✓	
	11.64	(226.26)	1.77	214.62	
	9.0	10.5	11.3 11.7	12.8	13.0
	0	18	29 30	37	40
	217.3	215.8	215.3 214.6	213.5	213.3
	220.2	218.6	217.5	217.3	
	6.1	7.7	8.8	9.3	
	0	18	30	40	
	227.1	220.6	219.7	218.9	
	4.2	5.7	6.6	7.4	
	0	18	30	40	
	223.4	221.5	220.6	220.1	
	2.9	4.8	5.7	6.2	
	0	18	30	40	
		✓		✓	
	9.58	(232.86)	2.98	223.28	
	9.4	10.8	11.9	11.9	12.8
	0	18	30	32	40
	223.5	222.1	"	221.0	220.1
	224.3	222.5	221.5	220.9	
	8.6	10.4	11.4	12.0	
	0	18	30	40	

		L				R				
			237.9			℄	H.I.	–	Elev	
		225.0	224.1	223.2			(232.86)	223.4	227.9	
		7.9	8.8	9.7		10.0	10.0	9.5	4.0	
29+50		40	30	18		0	18	30	40	
						"	222.9			
		223.9	223.3	223.1		223.0	224.5	228.7 228.1	230.7	234.3
		9.0	9.6	9.8		9.9	9.4	9.2 4.8	2.2	+ 1.4
30+00		40	30	18		0	18	23 30	40	50
		224.0	223.6	223.5		223.9	223.4	225.1	226.3	
		8.9	9.3	9.4		9.0	8.5	7.8	6.6	
30+50		40	30	18		0	18	30	40	
	226.7	226.4	224.9	225.0		224.4	225.2	225.0	226.6	
	6.2	6.5	8.0	7.9		8.5	7.7	7.9	6.3	
31+00	40	34	30	18		0	18	30	40	
		228.0	227.3	225.4		226.3	226.5	226.6	226.5	
		4.9	5.6	6.5		6.6	6.4	6.3	6.4	
31+50 66 EC.		40	30	18		0	18	30	40	
		231.9	232.2	231.3		229.9	228.9	227.2	227.7	
		1.0	0.7	1.6		3.6	4.0	4.7	5.2	
32+00		40	30	18		0	18	30	40	
			(242.1)				✓		✓	
FP		236.4	235.5	234.4		11.72	(242.07)	2.51	230.35	
		5.7	6.6	7.7		9.8	12.0	11.5	12.0	11.7
32+50		40	30	18		0	18	23	30	40
						232.3	230.1	230.6	230.1	230.4
		239.0	237.7	236.0		233.7	231.1	232.1	232.1	232.8 234.2 236.7
		3.1	4.4	6.1		8.4	11.0	10.0	10.0	9.3 7.9 5.4
33+00		40	30	18		0	18	23	30	33 34 40
		240.7	239.3	237.7		234.7	234.6	234.6	234.7	239.1
		1.4	2.8	4.4		7.4	7.5	7.5	7.4	3.0
33+50		40	30	18		0	18	30	34	40

		L				R			
			(242.1)						
		240.8	240.0	238.7					
		1.3	2.1	3.4					
34+00		40	30	18					
T.P.			(251.5)						
B.M. #10 Con Mon.		245.5	242.6	240.5					
		6.0	8.9	11.0					
34+50		40	30	18					
	245.8	244.4	243.3	240.8					
	5.7	7.1	8.2	10.7					
34+55	40	30	24	18					
		246.7	245.2	244.4					
		4.8	6.3	7.1					
35+00		40	30	18					
			(260.1)						
T.P.	251.4	251.1	249.3	249.7					
	8.7	9.0	10.8	10.4					
35+50	40	32	30	18					
	254.5	254.5	253.1	252.4					
	5.6	5.6	7.0	7.7					
36+00	40	36	30	18					
	257.4	256.2	254.3	252.9	254.7				
	2.7	3.9	5.2	7.2	5.4				
36+50	40	30	18	16	11				
T.P.									

	℄	H.I.	−	Elev.	
		242.07			
	4.7	5.1	4.3	3.9	
	0	18	30	40	
	237.4	237.0	237.8	238.2	
	11.72	(251.47)	2.32	239.75	
			1.625	249.845	.831
	11.7	11.7	11.7	11.3	
	0	18	30	40	
	239.8	239.8	239.8	240.2	
	240.2				
	11.3	"	"	"	
	0				
	242.7	242.1	242.4	242.5	
	8.8	9.4	9.1	9.0	
	0	18	30	40	
	10.28	(260.13)	1.62	249.85	
	11.6	12.7	13.3	14.3	
	0	18	30	40	
	248.5	247.4	246.8	245.8	
	251.6	249.3	249.0	248.3	
	8.5	10.8	11.1	11.8	
	0	18	30	40	
	251.6	247.3	249.0	248.3	
	254.7	251.5	251.4	251.5	
	5.4	8.6	8.7	8.6	
	0	18	30	40	
	1079	270.52	0.40	259.73	

		L					STR.	R.			
			DOWN								
			(270.5)				℄	H.I.	-	Elev	
		259.9	259.3	257.8			257.2	(270.52)	253.9	254.3	
		10.6	11.2	12.7				13.5	16.6	16.2	
37+00		40	30	18			13.3	18	30	40	
								255.0			
		261.5	260.7	259.8			258.7	256.8	256.7	256.8	
		9.0	9.8	10.7			11.8	13.7	13.8	13.7	
37+50		40	30	18			0	18	30	40	
		264.9	263.1	262.0			260.7	259.3	258.5	258.9	
		5.6	7.4	8.5			9.8	11.2	12.0	11.6	
38+00		40	30	18			0	18	30	40	
		265.8	265.4	263.8			263.7	262.4	261.8	260.2	
		4.7	5.1	6.7			6.8	8.1	8.7	9.3	
38+50		40	30	18			0	18	30	40	
		266.9	267.7	268.0	267.9	266.4	266.4	265.1	264.7	264.1	
		3.6	2.8	2.5	2.6	4.1	4.1	5.4	5.8	6.4	
39+00		40	30	18	14	10	0	18	30	40	
			(275.3)								
T.P.							55.4	(275.35)	0.71	269.81	
BM #11		267.4	267.8	268.2					7.38	267.97	90
		7.9	7.5	7.1			6.5	7.5	8.0	8.1	
39+50		40	30	18			0	18	30	40	
		267.9	268.1	268.8			268.8	267.8	267.3	267.2	
		7.1	7.2	6.5			269.5	270.1	269.1	269.0	
40+00		40	30	18			5.8	5.2	6.2	6.3	
							0	18	30	40	
		268.3	268.2	268.0			269.7	270.5	271.0	270.8	
		7.0	7.1	6.4			5.6	4.8	4.3	4.5	
40+50		40	30	18			0	18	30	40	
		268.4	268.7	269.1			270.3	271.3	271.8	272.1	
		6.9	6.6	6.2			5.0	4.0	3.5	3.2	
41+00 46		40	30	18			0	18	30	40	

TALBOT ST.

Sta.							
			(151.1)				
B.M #6	149.0	142.9	127.1	136.9	149.1	132.3	134.7
	2.1	8.2	24.0	14.2	2.0	18.8	16.4
0+00	40	30	18	16	15	10	7
			145.5	145.9		146.5	
			5.6	5.2		4.6	
1+00			40	30		15	
			(162.9)				
T.P.	149.8		150.7	149.9		150.8	
	13.1		12.2	13.0		12.1	
1+50	40		30	18		8	
			155.9	156.2		156.6	
			7.0	6.7		6.3	
2+00			40	30		18	
			(174.7)				
T.P.			160.6	161.5		162.4	
			14.1	13.2		12.3	
2+50			40	30		18	
			165.8	162.3		167.5	
			8.9	8.4		7.2	
3+00			40	30		18	
			(185.2)				
T.P.							
B.M #18	171.4	169.8	171.5	171.9		173.4	
	13.8	15.4	13.7	13.3		11.8	
3+50	40	39	37	30		18	

℄	R H.I.	−	Elev.		
				REC 1/17/49 AEF CM rainy 32	
				BM Bow ← Talbot	
0.19	(151.10)		150.91		
14.4	14.7	14.7	13.6	13.0	11.1
0	18	27	28	30	40
136.7	136.4	136.4	137.5	138.1	140.0
146.6	147.3	148.1	148.7	149.3	
9.9	10.9	11.7	11.2	11.2	
0	18	21	30	40	
12.44	162.87	0.67	150.43		
10.4	10.6	8.0	6.6	6.6	
0	8	18	30	40	
152.5	152.3	154.9	156.3	156.3	
157.8	158.3	159.5	159.9	160.9	161.3
5.1	4.6	3.4	3.0	2.0	1.6
0	9	13	18	30	40
12.21	174.67	0.41	162.46		
10.7	10.7	9.2	8.2	8.0	
0	10	18	30	40	
164.0	164.0	165.5	166.5	166.7	
169.5	169.7	170.2	170.4	171.8	
5.2	5.0	4.5	3.3	2.9	
0	16	18	30	40	
12.19	185.20	1.66	173.01		
					151.353
		3.78	181.42		
9.5	7.6	6.6	6.7		
0	18	30	40		
175.7	177.4	178.6	178.5		

		L				R				
					℄	H.I.	–	Elev.	
		(185.2)							
		177.7	178.4	178.9		185.20	184.5	186.5	
		7.5	6.8	6.3		4.4	2.4	0.7	+1.3	
4+00		40	30	18		0	18	30	40	
		(196.8)				180.8	182.8			
T.P.	184.1	184.0	184.4	187.2		196.84	0.50	184.70		
	12.7	11.8	11.4	9.6		8.6	4.4	0.6	+2.8	
4+50	40	30	18	4		0	18	30	40	
		190.4	191.3	197.0		188.2	191.4	196.2	199.6	
		6.4	5.5	4.8		193.9	195.6	196.8	202.0	190.5
5+00		40	30	18		7.9	1.7	0.0	+5.2	6.3
						0	14	18	30	40
T.P.		(208.9)				12.62	208.93	0.53	196.31	
		(218.9)								
T.P.		204.6	207.2	208.7		11.41	(218.90)	1.44	207.49	
		13.3	11.7	10.2		7.6	6.4	7.6	8.4	
5+50		40	30	18		0	18	30	40	
		210.0	211.6	213.4		211.3	212.5	210.3	210.5	
		8.0	6.3	4.5		217.4	220.4	221.2	222.5	
6+00		40	30	18		1.5	+1.5	+2.3	+3.6	
						0	18	30	40	
		212.6	215.7	217.9		219.0	221.9	224.5	224.7	
		6.3	3.2	1.0		+1.0	+3.0	+5.6	+5.8	
6+30		40	30	18		0	18	30	40	
		(230.0)								
T.P.	219.3	225.0	226.7	227.9		12.06	(230.02)	0.94	217.96	
	10.7	5.0	3.3	2.1		1.1	1.3	1.1	3.1	3.7 3.2 1.2
6+50	40	30	27	18		0	18	25	27	30 3.4 40
						228.9	228.7	228.9	224.9	226.9 226.8 228.8

		L				℄	H.I.	–	Elev.	
		230.0					230.02			
		226.9	227.2	227.4		1.1	1.5	0.9	0.7	
		3.1	2.8	2.6						
7+00		40	30	18		0	18	30	40	
						228.9	228.5	229.1	229.3	
7+50		225.2	226.0	226.5		225.5	226.4	226.1	226.5	226.4
		4.8	4.0	3.5		4.5	3.6	3.9	3.5	3.6
		40	30	18		0	7	18	30	40
B.M.	Talbot	150# SEly of Talbot & Dover						5.38	224.64	

Jack Pole
Silver Gate @ Jennings
BM#15

L. (285.0)

Sta.						
0+00	275.8 / 9.2 / 35	276.2 / 8.8 / 25	276.4 / 8.6 / 18			
0+50	275.3 / 9.7 / 35	276.2 / 8.8 / 25	276.7 / 8.3 / 18			
1+00	277.3 / 7.7 / 35	277.7 / 7.3 / 25	276.8 / 8.2 / 22	277.0 / 8.0 / 18		
1+50	277.9 / 7.1 / 35	278.5 / 6.5 / 25	278.8 / 6.2 / 18	278.4 / 6.6 / 16		
2+00	278.8 / 6.2 / 35	279.4 / 5.6 / 25	279.6 / 5.4 / 21	280.2 / 4.8 / 18	280.3 / 4.7 / 17	279.6 / 5.4 / 16
2+50	279.8 / 5.2 / 35	280.8 / 4.2 / 25	281.3 / 3.7 / 18	281.8 / 3.2 / 15	280.9 / 4.1 / 13	
T.P. (292.9)	281.4 / 11.5					
3+00	281.4 / 11.5 / 35	282.3 / 10.6 / 25	282.4 / 10.5 / 18	283.1 / 9.8 / 15	282.3 / 10.6 / 13	
3+50	282.6 / 10.3 / 35	283.6 / 9.3 / 25	284.5 / 8.4 / 18	284.2 / 8.7 / 16	283.6 / 9.3 / 13	
4+00	284.1 / 8.8 / 35	284.5 / 8.4 / 25	285.4 / 7.5 / 18	285.4 / 7.5 / 15	284.8 / 8.1 / 13	

SILVER GATE
Jennings 50 ft. to U.S.M. Fence
Jennings
50' W + 20' E on ML
(50' Wide Jennings to Chas)
(60' W. hence to U.S. Fence 30+30)

R

℄	H.I.	-	Elev.			
7.51 / 9.3 / 0	(285.02) 11.0 / 18	12.3 / 25	277.51 / 13.6 / 35			
275.7 / 277.2 / 7.8 / 0	275.0 / 277.3 / 7.7 / 18	272.7 / 276.3 / 8.7 / 25	271.4 / 274.2 / 10.8 / 35			
278.1 / 6.9 / 0	278.9 / 6.1 / 18	278.9 / 6.1 / 25	278.4 / 6.6 / 35			
278.9 / 6.1 / 0	280.0 / 5.0 / 18	280.3 / 4.7 / 22	280.4 / 4.6 / 25	280.6 / 4.4 / 35		
280.0 / 5.0 / 0	279.9 / 5.1 / 8	280.7 / 4.3 / 11	281.5 / 3.5 / 18	281.6 / 3.4 / 25	282.3 / 2.7 / 35	
281.0 / 4.0 / 0	281.0 / 4.0 / 9	281.7 / 3.3 / 10	281.5 / 3.5 / 14	282.2 / 2.8 / 18	282.6 / 2.4 / 25	283.3 / 1.7 / 35
10.55	(292.88)	2.69	282.33			
10.6 / 0	10.7 / 9	8.9 / 18	9.0 / 25	8.3 / 35		
282.3 / 283.5 / 9.4 / 0	282.2 / 283.5 / 9.4 / 12	284.0 / 284.9 / 8.0 / 13	283.9 / 285.4 / 7.5 / 18	284.6 / 285.3 / 7.6 / 25	286.2 / 6.7 / 35	
284.0 / 8.0 / 0	284.8 / 8.1 / 10	286.4 / 6.5 / 18	286.8 / 6.1 / 25	287.6 / 5.3 / 35		

		L				R				
		(292.9)								
		285.0	286.1	286.4		℄	HI	-	Elev	
		7.9	6.8	6.5		286.3	292.88	287.9	288.2	288.1	288.9
4+50		35	25	18		6.6	6.2	5.0	4.7	4.8	4.0
						0	13	14	18	25	35
		286.1	287.1	287.8			286.7				
5+00		6.8	5.8	5.1		287.6	287.2	289.3	289.3	289.6	290.1
		35	25	18		5.3	4.7	3.6	3.6	3.3	2.8
						0	14	16	18	25	35
5+50						289.0	289.6	290.8	290.8	291.0	291.8
						3.9	3.3	2.1	2.1	1.9	1.1
						0	14	16	18	25	35
T.P.		(298.14)				7.35	(298.14)	2.09	290.79		
BM.		288.1	288.5	289.0				5.61	292.53		
5+50		10.0	9.6	9.1							
		35	25	18							
		289.2	289.8	290.5		290.5	290.8	292.3	292.7	293.3	
6+00		8.9	8.3	7.6		7.6	7.3	5.8	5.4	4.8	
		35	25	18		0	13	18	25	35	
		290.7	291.7	292.52	292.0	293.0	294.1	294.6			
6+59½		7.4	6.4	5.62	6.1	5.1	4.0	3.5			
		40	30	20	20	18	30	40			
		292.2	292.8	293.01	292.7	293.8	294.1	297.2	297.3		
7+00		5.9	5.3	5.13	5.4	4.3	4.0	0.9	0.8		
		40	30	20	20	18	30	37	40		
	292.6	294.0	293.90	293.7	295.5	294.3	295.2	297.5	297.5	297.6	
7+50	5.3	4.1	4.24	4.4	2.6	3.2	2.9	0.6	0.6	0.5	
	40	30	18	18	10	18	19	24	30	40	

60' ST 50' ST

	℄ (301.72) 16				
TP	293.6	295.1	294.86	296.4	
	7.6	6.1	6.30	4.8	
8+00	40	30	19	10	
	294.9	295.9	295.78	295.5	297.2
	6.3	5.3	5.38	5.7	4.0
8+50	40	30	19	19	10
	295.0	295.7	296.8	297.3	
	6.2	5.5	4.4	3.9	
9+00	40	30	19	12	
	295.0	295.8	295.86	295.6	297.2
	6.2	5.4	5.30	5.6	4.0
9+50	40	30	19	19	11
		294.4	295.2	295.08	296.7
		6.8	6.0	6.08	4.5
10+00		40	30	19	11
		293.3	294.3	294.7	295.8
		7.9	6.9	6.5	5.4
10+50		40	30	18	12
		292.8	293.6	294.0	294.6
		8.4	7.6	7.2	6.6
11+00		40	30	18	11
		295.5	292.4	292.8	293.7
		5.7	8.8	8.4	7.5
11+50		40	30	18	12
		290.5	291.4	291.8	292.8
		10.7	9.8	9.4	8.4
12+00		40	30	18	11

℄	H.I.	R -	Elev.			
	298.14					
3.68	(301.16)	.66	297.48			
54	5.0	5.0	2.8	2.7	2.3	
0	18	19	24	30	40	
295.8	296.2	296.2	298.4	298.5	298.9	
296.6	297.2	298.5	299.1			
4.6	4.0	2.7	2.1			
0	18	22	30			
296.9	297.5	299.2	299.5			
4.3	3.7	2.0	1.7			
0	18	22	30			
296.9	297.2	299.1	299.8			
4.3	4.0	2.1	1.4			
0	18	21	30			
296.3	296.4	297.6	298.9	299.4	299.9	
4.9	4.8	3.6	2.3	1.8	1.3	
0	16	18	21	30	40	
295.5	295.9	297.5	298.5	299.1		
5.7	5.3	3.7	2.7	2.1		
0	18	21	30	40		
294.5	294.9	296.2	297.0	297.5		
6.7	6.3	5.0	4.2	3.7		
0	18	21	30	40		
293.4	293.9	295.4	296.8	296.2		
7.8	7.3	5.8	5.4	5.0		
0	18	23	30	40		
292.6	293.0	294.2	295.0	295.4		
8.6	8.2	7.0	6.2	5.8		
0	18	21	30	40		

L

	289.7	290.2	291.3	292.0
	11.5	11.0	9.9	9.2
12+50	40	30	18	11
		(297.3)		
TP	288.7	289.2	290.0	291.1
	8.6	8.1	7.3	6.2
13+00	40	30	18	11
	287.1	288.4	289.4	290.6
	10.2	8.9	7.9	6.7
13+50	40	30	18	8
	287.2	288.2	288.8	289.9
	10.1	9.1	8.5	7.4
14+00	40	30	18	9
	287.1	287.8	289.0	289.6
	10.2	9.5	8.3	7.7
14+50	40	30	18	9
	287.3	287.6	288.8	290.0	289.3
	10.0	9.7	8.5	7.3	8.0
15+00	40	30	18	5	4
	287.5	287.9	288.9	290.0	289.2
	9.8	9.4	8.4	7.3	8.1
15+50	40	30	18	6	3
		288.3	288.6	289.4	290.2
		9.0	8.7	7.9	7.1
16+00		40	30	18	8
			288.2	288.7	289.3
			9.1	8.6	8.0
16+50			40	30	18

R

℄	H.I.	–	Elev		
	(301.16)		293.4	294.0	294.4
9.5	9.3	9.3	7.8	7.2	6.8
0	17	18	22	30	40
291.7	291.9	291.9			
658	(297.32)	10.42	290.74		
6.6	6.3	4.9	4.2	3.8	
0	18	22	30	40	
290.7	291.0	292.4	293.1	293.5	
290.3	290.7	290.9	292.0	292.4	292.7
7.0	6.6	6.4	5.3	4.9	4.6
0	18	24	27	30	40
289.8	289.7	290.5	291.4	291.9	292.5
7.5	7.6	6.8	5.9	5.4	4.8
0	17	18	22	30	40
289.5	289.5	290.8	291.7	292.2
7.8	7.8	6.5	5.6	5.1
0	18	21	30	40
289.4	289.5	290.2	291.4	291.8
7.9	7.8	7.1	5.9	5.5
0	18	19	30	40
289.6	289.5	290.8	290.8	291.5
7.7	7.8	6.5	6.5	5.8
0	18	23	30	40
289.8	289.5	290.3	291.2	291.4	291.9
7.5	7.8	7.0	6.1	5.9	5.4
0	17	18	22	30	40
289.9	289.9	291.1	291.7	292.1
7.4	7.4	6.2	5.6	5.2
0	18	21	30	40

	L				
	(297.32)				
	289.1	289.7	290.3	288.8	290.1
	8.2	7.6	7.0	8.5	7.2
16+98.82	40	30	20	18	17
	291.1	291.7	290.6	291.3	292.7
	6.2	5.6	6.7	5.4	4.6
17+50 —	30	19	18	17	11
	292.6	293.3	291.8	293.2	
	4.7	4.0	5.5	4.1	
18+00 —	30	19	18	16	
	(306.5)				
TP. BM# 12	294.0	294.5	295.5	294.5	
	12.5	12.0	11.0	12.0	
18+50	40	30	19	18	
	296.0	296.5	296.8	296.2	296.7
	10.5	10.0	9.7	10.3	9.8
19+00	40	30	19	18	17
	298.2	298.4	299.2	298.6	299.2
	8.3	8.1	7.3	7.9	7.3
19+50	40	30	19	18	17
	300.6	301.2	300.4	300.9	
	5.9	5.3	6.1	5.6	
20+00	30	19	18	17	
	302.6	303.5	304.5	303.0	304.7	304.2
	3.9	3.0	2.0	3.5	1.8	2.3
20+50.40	30	18	16	9	8	
T.P.						

℄	HI	R	Elev	
	(297.32)			
	6.5	5.1	4.5	
0	18	30	40	
290.6	290.8	292.2	292.8	
292.4	292.3	293.6	294.2	294.5
4.9	5.0	3.7	3.1	2.8
0	18	21	30	40
294.0	293.8	295.2	295.8	296.0
3.3	3.5	2.1	1.5	1.3
0	18	22	30	40
				-38
12.12	(306.51)	293	294.39	
10.7	10.9	10.3	8.9	8.3
0	17	18	30	40
295.8	295.6	296.2	297.6	298.2
297.5	298.2	299.8	302.3	
9.0	8.3	6.7	4.2	
0	18	30	40	
299.8	300.3	301.3	301.8	302.8
6.7	6.2	5.2	4.7	3.7
0	18	23	30	40
302.0	302.7	302.8	303.6	303.9
4.5	3.8	3.7	2.9	2.6
0	18	22	24	30
304.6	305.1	305.9		
1.9	1.4	0.6		
0	18	30		
12.12	317.82	0.81	305.70	

	L				
	(317.8)				
	304.4	306.9	307.2	307.5	306.8
	12.4	10.9	10.6	10.3	11.0
21+00	40	30	18	9	8
		309.0	309.6		309.7
		8.8	8.2		8.1
21+50		40	30		18
		311.3	312.2		312.8
		6.5	5.6		5.0
22+00		40	30		18
		314.8	315.3		315.5
		3.0	2.5		2.3
22+50		40	30		18
	(328.7)				
T.P.		317.7	318.1		318.3
		11.0	10.6		10.4
23+00		40	30		18
		319.8	320.6		320.6
		8.9	8.1		8.1
23+50		40	30		18
		322.8	323.5		323.9
		5.9	5.2		4.8
24+00		40	30		18
		325.1	325.1		325.4
		3.6	3.6		3.3
24+50		40	30		18
		326.4	327.2		326.8
		2.3	1.5		1.9
25+00		40	30		18

	R				
℄	HI			Elev	
	(317.82)				
	10.2	10.1	8.1	8.0	
	0	18	30	40	
	307.6	307.7	309.7	309.8	
	310.4	311.6	311.5	312.5	312.7
	7.4	6.8	6.3	5.3	5.1
	0	18	27	30	40
	313.0	314.0	315.0	314.4	
	4.8	3.8	2.8	3.4	
	0	18	30	40	
	315.8	315.8	317.2	317.5	317.8
	2.0	2.0	0.6	0.3	0.
	0	13	18	30	40
	10.97	(328.68)	0.11	317.71	
	10.2	10.2	8.9	8.7	
	0	13	18	30	
	318.5	318.5	319.8	320.0	
	321.7	321.3	322.5	322.8	
	7.5	7.4	6.2	5.9	
	0	16	18	30	
	323.0	323.5	324.4	324.0	325.3
	4.8	5.2	4.3	3.8	3.4
	0	11	14	18	30
	325.7	325.7	325.3	326.9	327.1
	3.0	3.0	2.4	1.8	1.6
	0	9	10	18	30
	327.3	327.3	327.7	328.5	328.8
	1.4	1.4	1.0	0.2	0.1
	0	8	9	18	30

		L				R				
					℄	HI		Elev		
						328.68				
		(335.64)								
T.P.		328.0	328.4	328.1	8.11	(335.64)	1.15	327.53		
		7.6	7.2	7.5	6.9	6.7	5.7	5.8		
25+50		40	30	18	0	9	18	30		
					328.7	328.9	329.9	329.8		
		331.1	331.1	330.8	329.8	329.9	330.0	329.7	329.2	
		4.5	4.5	4.8	5.8	5.8	5.6	6.0	6.5	
26+00		40	30	18	0	13	18	30	40	
						(335.6)				
		331.4	331.4	331.4	330.7	330.2	330.9	330.8	330.3	329.9
		4.2	4.2	4.2	4.9	5.0	4.7	4.8	5.3	5.7
26+50		40	30	18	0	12	13	18	30	40
									.141	
BM #13 #441		331.3	331.3	331.6	331.5	332.0	6.49	329.15		
		4.3	4.3	4.0	4.1	3.6	3.7	3.7		
27+00		40	30	18	0	18	30	40		
							331.9	331.9		
			332.2	332.4	332.5	333.1	333.2			
			3.4	3.2	3.1	2.5	2.4			
27+50			30	18	0	18	30			
			333.6	333.6	333.6	334.1	334.2			
			2.0	2.0	2.0	1.5	1.4			
28+00			30	18	0	18	30			
		(344.5)								
T.P.			335.3	335.1	9.78	(344.47)	0.95	334.69		
			9.2	9.4	9.8	9.4	9.4			
28+50			30	18	0	18	30			
					334.7	335.1	335.1			
			336.0	336.2	335.9	336.1	336.1			
			8.5	8.3	8.6	8.4				
29+00			30	18	0	18				

		L				R			
		(344.5)			℄	HI.	-	Elev.	
						(344.47)			
			337.4	337.3	7.7	7.5	7.5		
			7.1	7.2	0	18	30		
29+50			30	18	336.8	337.0	337.0		
		338.3	338.5	337.8	337.6	337.7	337.9		
		6.2	6.0	6.7	6.9	6.8	6.6		
30+00		40	30	18	0	18	30		
		339.3	339.2	338.9	338.1	338.2	338.2		
		5.2	5.3	5.6	6.4	6.3	6.3		
30+50		40	30	18	0	18	30		
		339.6	339.7	339.6	338.7	338.7	338.6		
		4.9	4.8	4.9	5.8	5.8	5.9		
31+00		40	30	18	0	18	30		
	340.9	340.5	340.1	339.3	339.2	338.8	338.6		
	3.6	4.0	4.4	5.2	5.3	5.7	5.9		
31+50	40	30	18	17	0	18	30		
							5.22	339.25	
BM#14		341.5	341.1	340.8	4.6	4.8	5.1	5.4	
		3.0	3.4	3.7	0	18	30	40	
32+00		40	30	18	339.9	339.7	339.4	339.1	
		342.2	341.8	341.5	340.5	340.4	340.0	339.7	
		2.3	2.7	3.0	4.0	4.1	4.5	4.8	
32+50		40	30	18	0	18	30	40	
					340.5	340.4	340.0	339.7	
		(349.4)							
T.P.		342.3	342.2	341.2	8.24	(349.44)	3.27	341.20	
		7.1	7.2	8.2	8.2	8.3	8.9	9.2	
33+00		40	30	18	0	18	30	40	
					341.2	341.1	340.5	340.2	

Check @ USIN - I.P.
Rod read wrong
here on side shot
Apparently OK

Error 0.10

337.15

		L (349.4)		
		342.6	342.6	342.3
		6.8	6.8	7.1
33+50		40	30	18
	344.4	344.0	344.0	343.5
	5.0	5.4	5.4	5.9
34+00	40	30	19	18
	345.1	344.9	344.5	344.1
	4.3	4.5	4.9	5.3
34+50	40	30	19	18
		345.1	345.2	344.7
		4.3	4.2	4.7
35+00		30	19	18
		345.8	345.7	345.2
		3.6	3.7	4.2
35+50		40	30	18
		346.3	346.3	345.3
		3.1	3.1	4.1
36+00		40	30	18
		346.1	346.0	345.1
		3.3	3.4	4.1
36+50		40	30	18
		346.4	345.9	345.4
		3.0	3.5	4.0
37+00		40	30	18
		346.4	346.2	345.6
		3.0	3.2	3.8
37+50		40	30	18

℄	HI (349.44)	R –	Elev
74	74	82	82
0	18	30	40
342.0	342.0	341.2	341.2
342.7	342.6	342.0	341.7
6.7	6.8	7.4	7.7
0	18	30	40
343.5	343.3	343.0	342.7
5.9	6.1	6.4	6.7
0	18	30	40
344.2	343.9	343.6	343.4
5.2	5.5	5.8	6.0
0	18	30	40
344.5	344.2	343.7	343.4
4.9	5.2	5.7	6.0
0	18	30	40
344.5	344.2	344.0	344.0
4.9	5.2	5.4	5.4
0	18	30	40
344.8	344.2	343.8	343.4
4.6	5.2	5.6	6.0
0	18	30	40
344.9	344.1	343.8	343.5
4.5	5.3	5.6	5.9
0	18	30	40
345.4	344.4	343.8	343.6
4.0	5.0	5.6	5.8
0	18	30	40

	L				
	346.4	346.3	345.8	345.5	345.9
	3.0	3.1	3.6	3.9	3.5
38+00	40	30	18	5	3
		(358.4)			
T.P.		346.9	346.4	346.2	
		11.5	12.0	12.2	
38+50		40	30	18	
	347.5	347.2	347.0	346.6	
	10.9	11.2	11.4	11.8	
39+00	40	30	19	18	
	348.4	347.9	347.6	347.4	
	10.0	10.5	10.8	11.0	
39+50	40	30	19	18	
		349.4	348.7	348.4	
		9.0	9.7	10.0	
40+00		40	30	18	
		350.5	350.2	349.3	
		7.9	8.2	9.1	
40+50		40	30	18	
	351.8	351.5	351.3	350.9	350.6
	6.6	6.9	7.1	7.5	7.8
41+00	40	30	24	23	18
	353.0	352.7	352.5	351.9	351.6
	5.4	5.7	5.9	6.5	6.8
41+50	40	30	26	23	18
	354.2	353.9	353.6	353.2	353.0
	4.2	4.5	4.6	5.2	5.4
42+00	40	30	24	22	18

	R			
℄	H.I.	–	Elev.	
	349.44			
3.2	4.7	5.1	5.4	
0	18	30	40	
346.2	344.7	344.3	344.0	
12.80	(358.35)	13.89	345.55	
12.8	13.6	13.8	14.2	
0	18	30	40	
345.6	344.8	344.6	344.2	
346.3	345.5	345.1	344.9	
12.1	12.9	13.3	13.5	
0	18	30	40	
347.1	346.2	345.8	345.6	
11.3	12.2	12.6	12.8	
0	18	30	40	
348.2	347.4	346.7	346.5	
10.2	11.0	11.7	11.9	
0	18	30	40	
349.2	348.2	348.0	347.7	
9.2	10.2	10.4	10.7	
0	18	30	40	
350.3	349.5	349.1	348.8	
8.1	8.9	9.3	9.6	
0	18	30	40	
352.0	350.8	350.3	349.9	
6.4	7.6	8.1	8.5	
0	18	30	40	
353.1	352.0	351.5	350.2	
5.3	6.4	6.9	7.2	
0	18	30	40	

SILVER GATE

(3584)

	355.3	355.1	354.7	354.3	354.1
	3.1	3.3	3.7	4.1	4.3
42+50	40	30	24	21	18
		356.5	356.1	355.8	355.2
		1.9	2.3	2.6	3.2
43+00		40	32	30	18
		357.5	356.8	356.4	
		0.9	1.6	2.0	
43+50		40	30	18	
		357.7	357.2	357.7	
		0.7	1.2	0.7	
43+91.98		40	30	18	

BM + (Top 2½ USH)

END @ U.S. Reserve Fence

INDEXED
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45

		R		
E	H.I.	1		
	3583.5			
354.0	353.3	352.8	352.4	
	5.1	5.6	6.0	
44	18	30	40	
355.3	354.5	354.2	353.9	
3.1	3.9	4.2	4.5	
0	18	30	40	
356.2	355.7	355.3	355.0	
2.2	2.7	3.1	3.4	
0	18	30	40	
357.0	356.6	356.5	356.2	
1.4	1.8	1.9	2.2	
0	18	30	40	
		0.14	358.21 (21)	Error 0.007

43 91.98
7 16.85
36 75.13
1 15
35 60.13

660.49
56.36
716.85

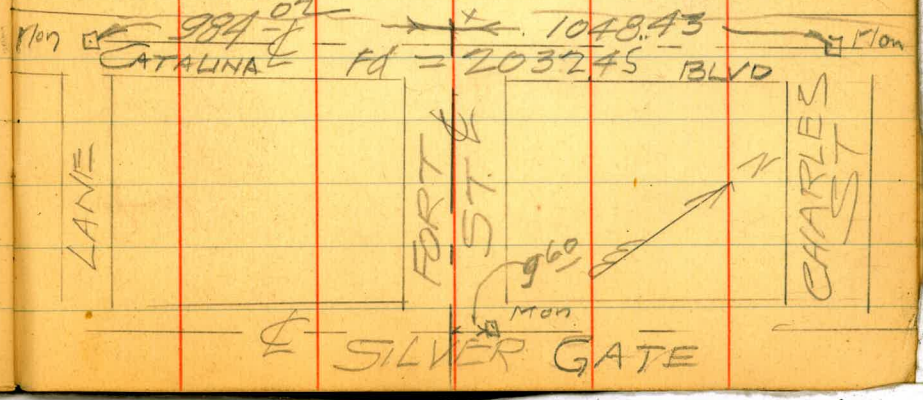
FORT BOW STREET STR. WEST (L) Sly

				Con. Wall 30' Out
B.M. #11	268.1	268.3	267.9	
	10.0	9.8	10.2	
0+00	40	30	18	268.96
				9.17
0+17	271.5	270.7	270.3	
0+30	6.6	7.4	7.8	
0+50	40	30	18	
	272.7	272.7	272.7	
	5.4	5.4	5.4	
1+00	40	30	18	272.64
				5.14
1+30	271.6	271.2	271.6	
	6.5	6.9	6.5	
1+50	40	30	18	
	271.8	271.4	271.5	278.49
	6.3	6.7	6.6	3.53
2+00	40	30	18	
	274.2	274.0	273.6	276.02
	3.9	4.1	4.5	2.06
2+50	40	30	18	
				0.37
2+90	276.3	276.3	276.3	276.7 277.11
	1.8	1.8	1.8	1.4
3+40	40	30	21	18
T.P.	(288.7)			
	279.1	278.9	278.8	
	9.6	9.8	9.9	
3+50	40	30	18	

(R) Nly

℄	H.I.	—	Elev.			
10.18	(278.08)		267.90			
10.3	10.0	9.9	9.6			
0	18	30	40			
267.6	268.1	268.2	268.5			
269.8	269.5	268.7	268.7			
8.3	8.6	9.4	9.4			
0	18	30	40			
272.0	271.9	271.2	270.8	270.4	270.7	
6.1	6.2	6.9	7.3	7.7	7.4	
0	2	3	18	30	40	
271.5	271.5	271.1	270.3			
6.6	6.6	7.0	7.8			
0	18	30	40			
271.8	272.3	272.7	272.3	271.5		
6.3	5.3	5.4	5.8	6.6		
0	5	18	30	40		
273.9	273.8	274.1	274.1			
4.2	4.3	4.0	4.0			
0	18	30	40			
276.5	276.4	275.7	275.9	275.0	275.4	275.4
1.6	1.7	2.4	2.2	3.1	2.7	2.7
0	2	3	18	28	30	40
12.48	(288.74)	1.82	276.26			
278.4	278.4	277.5	278.0	277.1	277.5	
10.3	10.3	11.2	10.7	11.6	11.2	
0	3	4	18	30	40	

		(L)				(R)					
		(288.7)			H.I.		Elev.				
		281.1	280.8	280.7	℄ (288.74)						
		7.6	7.9	8.0	8.4	8.7	9.5	9.0	9.6	9.1	
4+00		40	30	18	0	2	4	18	30	40	
		282.9	282.6	282.3	280.3	280.0	279.2	279.7	279.1	279.6	
		5.8	6.1	6.4	281.7	281.7	281.1	281.6	281.1	281.1	
4+50		40	30	18	7.0	7.0	7.6	7.1	7.6	7.6	
					0	2	4	18	30	40	
		284.9	284.5	284.1	283.7	283.7	283.1	283.5	283.0	283.8	283.4
		3.8	4.2	4.6	5.0	5.0	5.6	5.2	5.7	4.9	5.3
5+00		40	30	18	0	2	4	18	29	30	40
		287.1	286.6	286.4	286.2	285.4	285.7	285.5	285.4		
		1.6	2.1	2.3	2.5	3.3	3.0	3.2	3.3		
5+50		40	30	18	0	3	18	30	40		
		(297.0)									
T.P.		288.8	288.8	288.7	10.93	297.04	2.63	286.41			
		8.2	8.2	8.3	9.0	9.1	9.3	9.8	9.9		
6+00		40	30	18	0	13	18	30	40		
					288.0	287.9	287.7	287.2	287.1		
		290.6	290.6	290.0	289.8	289.0	289.1	288.7	288.3	289.1	288.7
6+37 36.30		6.4	6.4	7.0	7.1	8.0	7.9	8.3	8.7	7.9	8.3 8.3
@ Silvergate		40	30	18	0	2	13	18	21	23	30 40
								394.384			
B.M.#12	Ft & Silver Gate P.O. Walk						2.67	294.37			



BOW + MARTINEZ JUNCTION

1/31/20 EF CM 49

Dist L+R Deff RL

End
6+52.00
17°-54'
4+27.00
20°-56'
2+56.40
72°-36'
0+39.25
30°-0'
Mon Talbot
0+00
BS Down
Talbot PL

225.00
170.60
59.45

	El	Rod	−	+	
BM #6 Garage Bow+Bauer	150.91		137.59	6.68	
0+39.25	149.9	7.7			+14°-26' 41
+50	150.6	7.0			
1	154.3	3.3			
TP	156.78		0.81 168.76	11.98	
1+50	159.0	2.8			
2	163.7	4.9			
+50	168.2	0.6			
TP 1	168.13		0.63 180.44	12.31	
3	171.9	8.5			
+50	174.5	5.9			
4	176.1	4.3			
+50	177.2	3.2			
4+27	177.2	3.2			
TP	178.45		1.00 191.07	12.62	
5+0	179.3	11.8			
+50	181.6	9.5			
6	185.1	6.0			
6+52	188.6	2.5		43.59	43.59
	183.05 ✓	8.02 on Blk Cor			11.45 32.14
		11.45			150.91
					183.05

(Martinez Cont'd)

50

6+52 End 185.6

6 −25° 175 185.1
150' 23 5 10

−24° 160 165 170 180 181.6
53 38 25 12 70° 75

5 −35° 160 165 170 175 179.3
61 44 30 18 13 8

177.2

−30° 170 175 4 4 15
+27 177.2 15 6

176.1

4

3+50 150 160 170 175 174.5
55 37 21 15 16 25

3 −20° 145 155 165 170.0
61 40 25 10 10

Road

+54.40 4 150 160 165 168.2
−20° 38 18 10 6 12

2 140 145 150 155 160 163.7
67 50 32 20 15 11 8

135 140 145 150 155 159.0
74 60 48 31 20 15 3

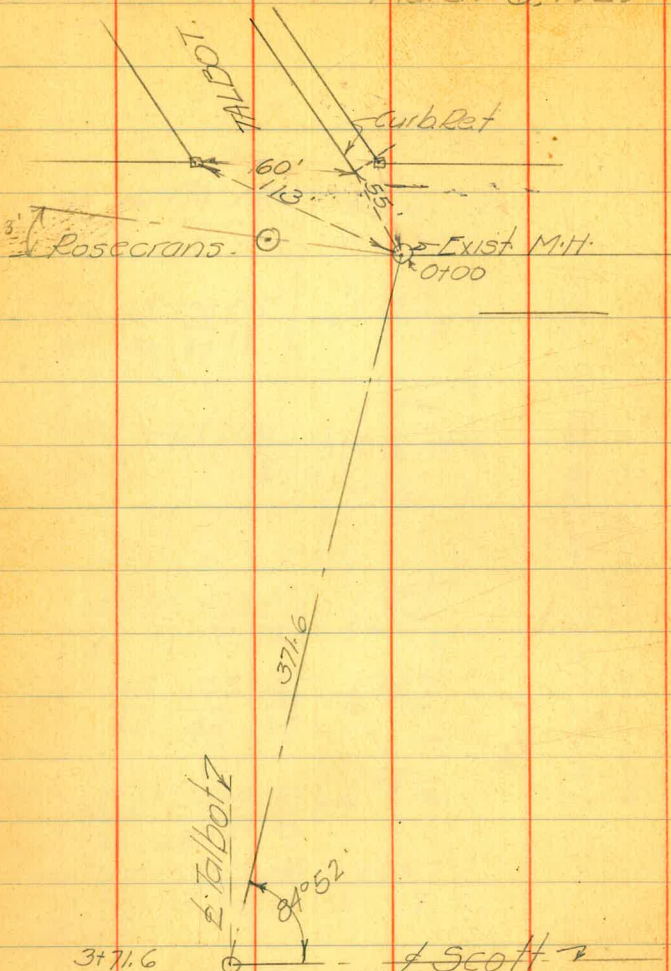
1 140 145 150 155 154.3
45 35 23 16 16 7

0+395 1506
3 18

Topog lines not RT ∠s to Transit but to Talbot ST

Summit 194 @ 200' N/ly of 6+52 4

March 6, 1929 — Quarrily Rodier Franklin



3+71.6
2 70
6 41.6
2 70
9 11.6
208.50
11 20.1
2 70
13 90.1
2 70
16 60.1

TALBOT STR. Sewer Profiles

51

Sta		+	H.I.	−	Elev.
B.M.#2		2.02	74.07		72.05
0+00	Ref. Leroy			3.64	70.43
0+50				7.96	66.11
1+00	T.P.	0.81	62.57	12.31	61.76
1+50				5.21	57.36
1+76	Ret.			7.40	55.17
"	Gutter			8.14	54.43
2+00				10.51	52.06
2+50	T.P.	1.57	51.40	12.74	49.83
2+86	Gutter			3.63	47.77
"	Ret.			2.90	48.50
3+00				3.83	47.57 MH
3+50				6.97	44.43
4+00				10.08	41.32
T.P.		0.56	39.38	12.58	38.82
4+50				1.20	38.2
5+00				4.34	35.0
5+50				7.51	31.9
6+00				10.64	28.7 MH

Scott St.

Sta		+	H.I	−	Elev
			39.38		
T.P.	1.46	27.79		13.05	26.33
6+50				2.11	25.7
6+89				4.54	23.2
7+00				4.72	23.07
7+22	Ref-Talbot			4.98	22.8
	Gutter			5.68	
H.I			27.79		
0+00	M.H.-Talbot.			5.76	22.03
"	F.L.			11.25	16.54
0+26	Gutter			6.67	
"	Top			6.06	
0+28				4.9	22.9
0+50				5.2	22.6
1+00				8.4	19.4
1+50				11.0	16.8
2+00				12.4	15.4
T.P.		2.07	16.88	12.98	14.81

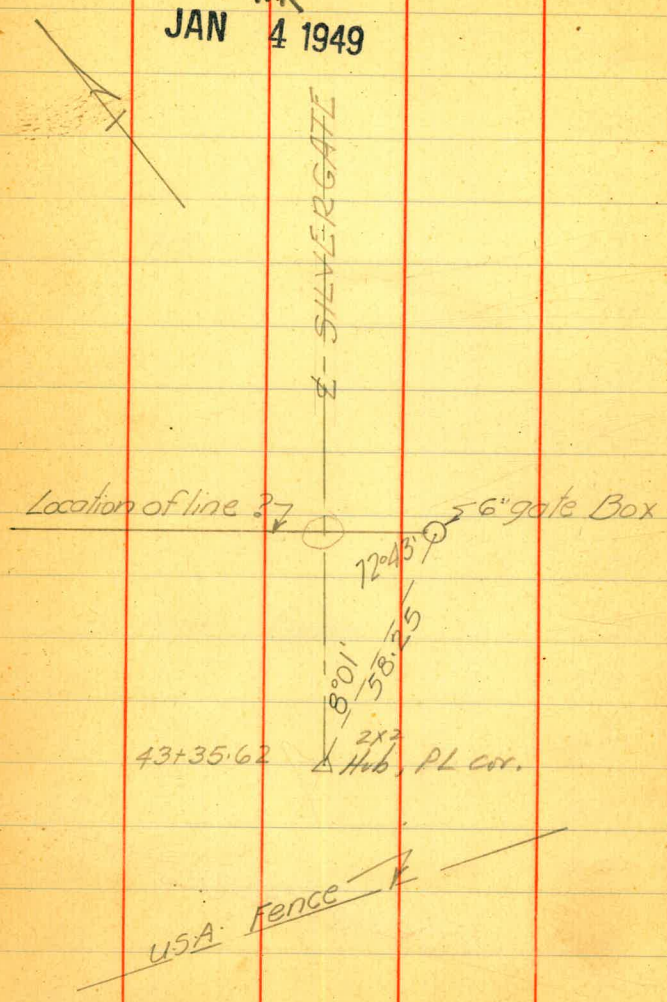
INDEXED
W.I.S.
JAN 4 1949

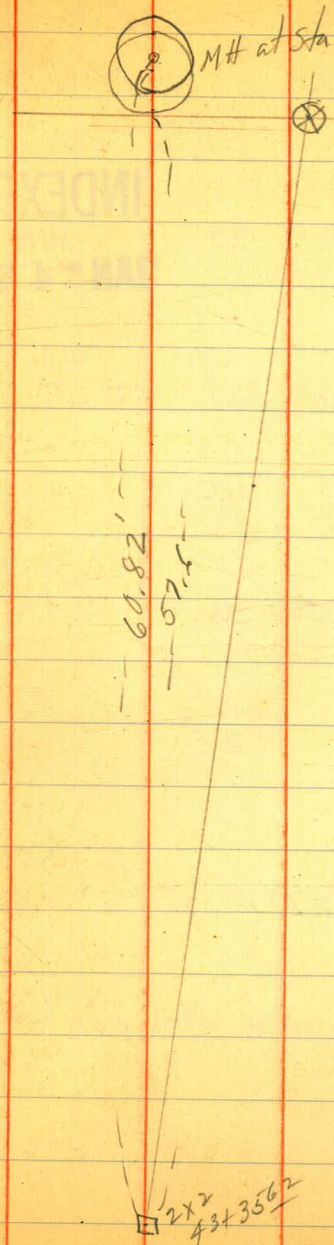
Sewer Profile

Sta		+	H.I	−	Elev.
			16.88		
2+50				3.8	13.1
3+00				5.6	11.3
3+50				6.8	10.1
3+71.6				7.3	9.6
4+00				6.9	10.0
4+50				7.0	9.9
5+00				6.4	10.5
5+50				6.0	10.9
6+00				5.5	11.4
6+41.85	℄ Upshur			4.8	12.1
7+00				4.2	12.7
7+50				4.3	12.6
8+00				4.3	12.6
8+50				4.9	12.0
8+76	T.P.	4.69	15.45	6.12	10.76
9+00				5.64	9.8
9+14.3	M.H. ℄ Canon St.			5.67	9.78
9+48				4.82	10.6

sta		+	H.I.	−	Elev	sta		+	H.I.	−	Elev.
			15.45								
9+63				3.5	12.0						
10+0				3.4	12.1						
10+50				3.5	12.0						
11+00				4.5	11.0						
11+21.2 Addison - MH				4.79	10.66						
11+50				5.4	10.1						
12+00				6.5	9.0						
12+50				7.0	8.5						
13+00				6.9	8.6						
13+50				7.2	8.3						
13+91.15	M.H.	Byrm		7.21	8.24						
14+50				7.7	7.8						
15+00				8.0	7.5						
15+50				8.1	7.4						
16+00				8.3	7.2						
16+50				9.4	6.1						
16+88.15	M Carlton	?		9.8	5.7						
16+45	Top Ext. Sewer pipe			9.28	6.17						

TIES TO EXIST. GATE · SILVERGATE.





3.22
2
1.22

BANGOR ST

Sta	L +	℄ H.I.	R −	Elev.
BM #6	5.62	156.53		150.91
Rt 0+00	8.0	10.8	13.8	
0+50	3.4	7.4	9.0	
T.P.	11.13	165.04	26.2	153.91
1+00	6.2	8.5	11.6	
1+50	+2.7	1.7	5.8	
2+00	+9.0	+6.9	+2.5	

AKRON STR.

Sta	L +	℄ H.I.	R −	Elev
BM #4	3.85	118.07		114.22
Rt. 0+00	10.5	10.7	11.8	
0+50	10.4	11.1	11.6	
1+00	7.1	8.3	9.5	
1+50	+2.6	+1.0	0.8	

N. Side of Talbot Str.

Grades on Akron & Bangor St. to be established by Development Engrs.

	L	℄	R.	4/11/29
	WARNER	STR.		
B.M.#12	5.27	299.65		294.38
T.P	10.02	302.07	7.60	292.05
0+00	10.0 292.1	10.4 291.7	9.8 292.3	
0+50	7.3 294.8	6.7 295.4	6.7 295.4	
1+00	4.0 298.1	3.8 298.3	3.6 298.5	
1+50	1.0 301.1	0.9 301.2	1.1 301.0	
T.P	11.29	313.12	0.24	301.83
2+00	9.4 303.7	9.3 303.8	9.3 303.8	
2+50	7.0 306.1	6.8 306.3	6.8 306.3	

Rio Arco St.

56

Sta	L	℄	R	
B.M.#2	12.39	306.77		294.38
T.P.	12.43	317.34	1.86	304.91
0+00	10.3 307.0	10.8 306.5	11.2 306.1	
0+50	6.5 310.8	8.1 309.2	8.6 308.7	
1+00	4.0 313.3	5.4 311.9	6.1 311.2	
1+50	1.7 316.7	3.1 314.2	3.7 313.6	
2+00	0.0 317.3	1.2 316.1	1.8 315.5	

LANE (UNNAMED)

Sta.	L	℄	R	
BM #14	5.68	344.83		339.15
Elm St Inter Gate				
0+00	6.9 337.9	6.5 338.3	5.9 338.9	
0+50	7.0 337.8	6.7 338.1	6.0 338.8	
1+00	8.9 335.9	8.0 336.8	7.0 337.8	
1+50	11.0 333.8	10.7 334.1	8.7 336.1	
2+00	13.4 331.4	12.4 332.4	10.8 334.0	
2+50	16.6 328.2	12.7 332.1	13.0 331.8	

West

WILCOX STR.

	L	℄	R.	
BM #15	10.89	288.40		277.51
0+00	3.0 285.4	4.2 284.2	4.1 284.3	
	10.04	295.03	3.41	284.99
0+50	6.7 288.3	8.2 286.8	7.8 287.2	
1+00	4.3 290.7	6.1 288.9	5.6 289.4	
1+50	3.2 291.8	4.9 290.1	4.8 290.2	
2+00	4.2 290.8	5.0 290.0	5.7 289.3	

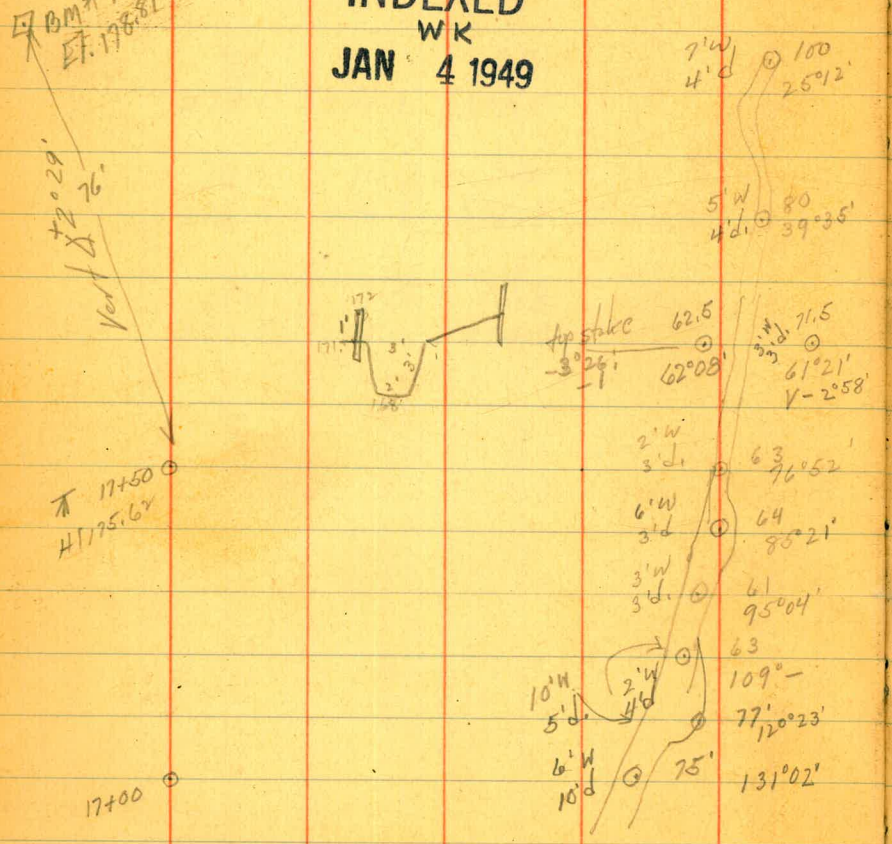
East

sta	L	℄ WILCOX	R St.	
T.P.	1.60	286.59		28499
0+00	3.9 282.7	3.7 282.9	3.0 283.6	
0+50	7.5 279.1	7.3 279.3	6.8 279.8	
1+00	10.5 276.1	10.0 276.6	9.8 276.8	
1+50	13.1 273.5	12.5 274.1	12.3 274.3	

Topography for Rowe
Headwall at Inez Sta Franklin π
5/13/29

π at 17+50 BS on 17+00

Ls are deflections to right



60

B. M. 285.506 N.W. Cor. 6TH & Robinson – Brass Plug and Return (B.M. Bk. Pg. 16a.)

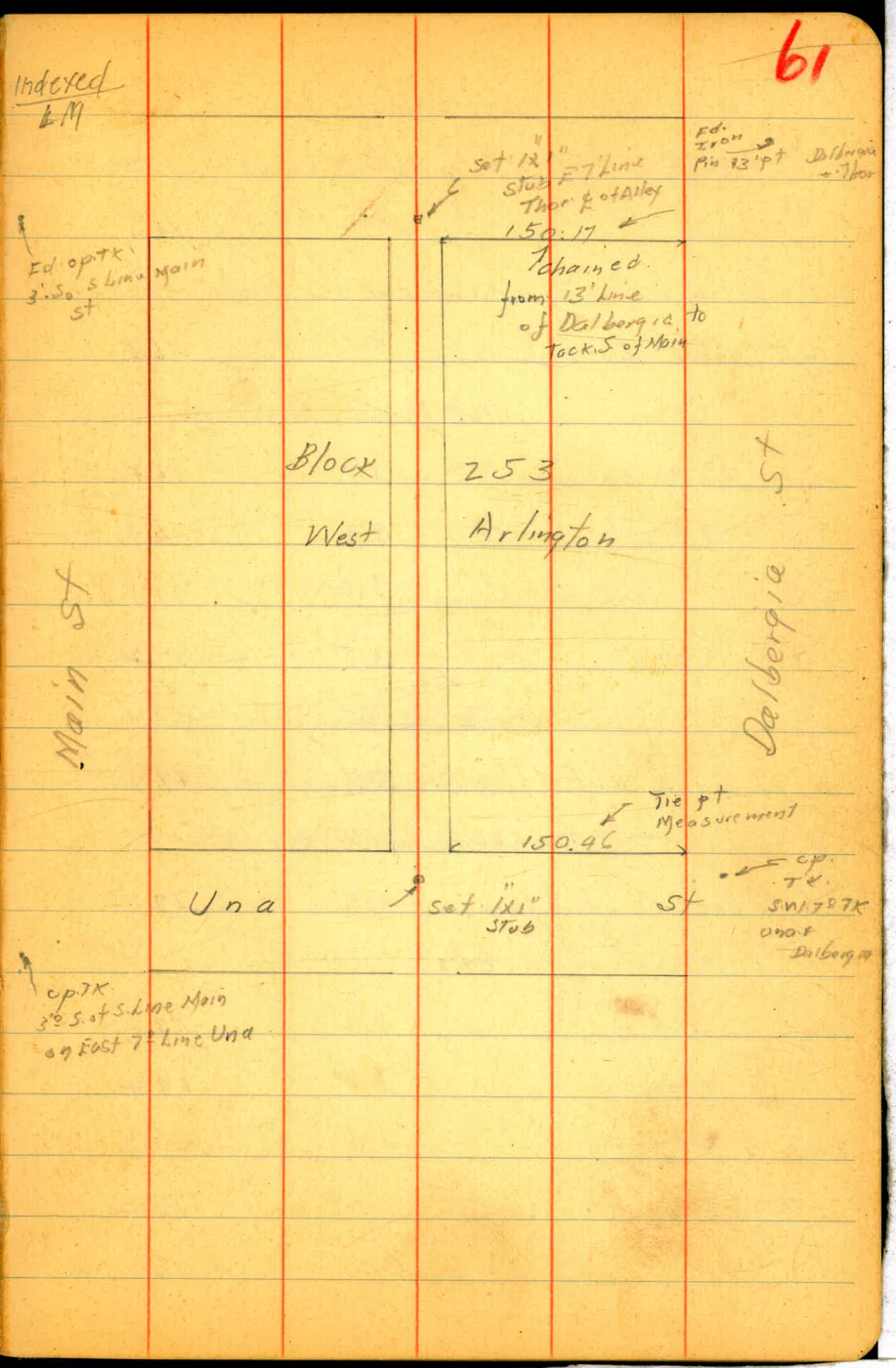
Bliss
Sommermyer
Beggs
10/10/41

X Section Alley Block 253 West Arlington
between Main & Dalbergia Una to Thor

BM	7.27	20.73		1346	S.E.B.P. cb. Main Una
			Sec. in W. Gutter Una		
N 25	Top cb		4.15	16 58	
" "	Gutter		5.0	15 7	
N Top cb			4.53	16 20 ✓	
Gutter			5.3	15 4	
℄			5.5	15 2	
S Top cb			4.91	15 82	
Gutter			5.7	15 02 ✓	
St 25 Gutter			6.1	14.6	
		0+00			
San Ground			4.8	15.9	
Sto S Top cb			4.70	16 03 ✓	
℄			4.7	16 0	
N			4.6	16 1	
N+0.4 Top cb.			4.26	16 47 ✓	
		0+20			
N			3.9	16.8	

Notes Red by C.B.M. & Beggs 10-17-1941

Indexed
BM



	20.73		
℄	3.8	16 9	
S.	4.2	16 5	
	0+27 E End 3 Car Garage on South		
6.7 Back Dirt floor	4.1	16 6	
	0+50 W End 3 Car Garage on South		
6.8 Back Dirt floor	3.8	16 9	
S	3.8	16 9	
℄	3.3	17 4	
N	3.5	17 2	
	0+54 ctr Simple Garage on North		
3.1 Back Dirt floor	3.5	17 2 ✓	
	0+56 ctr Simple Garage on South		
6.8 Back Dirt floor	3.6	17 1 ✓	
	0+75		
N-5	3.2	17 5 ✓	
N	3.3	17 4	
℄	3.0	17 7	
S	3.5	17 2	
1+20	4.0	16 7 ✓	

	20.73		62
	0+94 Simple Garage on South		
6.5 Back concrete floor	3.40	17.33 ✓	
	1+00		
S-5	3.2	17 5 ✓	
S	3.2	17 5	
℄	3.0	17 7	
N	2.9	17.8	
+5	2.8	17.9 ✓	
	1+09 D&L Garage on South		
5.5 Back. Dirt floor	3.2	17.5 ✓	
	1+21 G&L pole on South	6" Dia ✓	
outside edge 10' from ctr A-3680			
	1+40 L&L D. Main 3.8 Lt of ℄	✓	
	1+50		
N-5	3.0	17.7 ✓	
N	3.0	17.7	
℄	3.0	17.7	
S.	3.4	17.3	
5+25	3.9	16.8 ✓	

20.73

1+74 Begin Picket fence on North

Fence 0.3 in alley

2+00

S-25		5.0	15.7
S		3.4	17.3
℄		3.4	17.3
N		3.1	17.6

Garage Parallels Alley 2+29 East End Garage Bldg 0.35 in alley N.

A-3660 8" dia pole 2+43 G+Lt Pole 10.1 Rt to outside face

2+45 W End Garage Bldg 0.2 in alley N.

" Picket Fence ends on North 0.6 in alley

T.P.	4.17	20.87	4.03	16.70

2+45 W. End Single Garage. N

4.7 Back. Parallels Alley 3.7 17.2

2+50

N		4.1	16.8
℄		4.3	16.6
S		4.4	16.5

20.87

2+75 Single Garage on North

Concrete Lip .46 Back		4.30	16.57
Concrete Floor .83 "		3.83	17.04

2+85 Begin fence on North 0.3 in alley

3+00 End fence on N 0.3 in alley

S-10			5.2	15.7
S			4.9	16.0
℄			5.3	15.6
N			5.2	15.7
T.P.	1.95	17.42	5.40	15.47

3+06 Single Garage on North

3.1 Back. concrete floor 1.60 15.82

3+12 Begin fence on North 0.1 in alley

3+42 end " " " 0.7 " "

3+42 E. End shack. 0.5 in alley N.

3+45 G+Lite Pole # A3649 8.5 Rt to outside 12" Dia

3+50 W end of shack .05 in alley

N	3.1	14.3
↑2	2.8	14.6
℄	2.5	14.9
S	2.9	14.5
+20	3.6	13.8

↑ 17.42

3+80

S-20	4.7	12.7 ✓
S	4.3	13.1
+3	3.9	13.5
℄	3.6	13.8
+5	3.9	13.5
N.	4.3	13.1
+5	4.1	13.3 ✓

10" Dia 3+90 G+Lite Pole A 3640. 10.1 ℄ to outside

4+00

N-5	5.3	12.1 ✓
N	5.1	12.3
+5	4.7	12.7
℄	4.5	12.9
+5	4.6	12.8
S.	5.0	12.4
+10	5.2	12.2 ✓

4+06. Single Garage on North

5' Back Dirt floor 4.3 12.5

↑ 17.42

4+25

S-15	5.7	11.7 ✓
S.	5.4	12.0
℄	5.1	12.3
N	5.2	12.2
+5	5.2	12.2 ✓

4+50

N-5	5.4	12.0 ✓
N	5.4	12.0
℄	5.4	12.0
+8	5.5	11.9
S.	5.8	12.1
+10	5.3	12.1 ✓

A 3618 5+00. 10" G+Lite Pole. 10.3 ℄ to outside

S-15	6.6	10.8 ✓
S-13	5.9	11.5 ✓
S	5.9	11.5
℄	5.7	11.7
N	5.8	11.6
+15	5.9	11.5 ✓

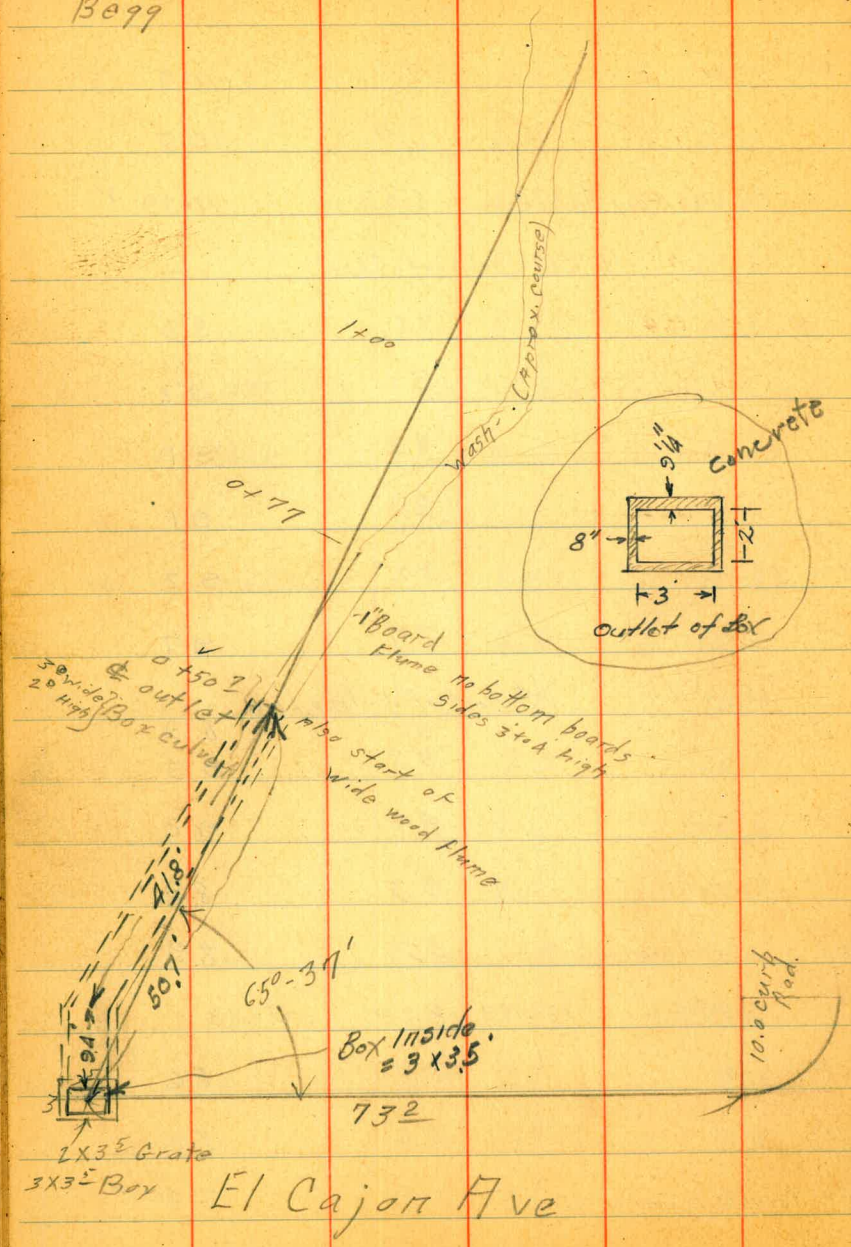
		π 17.42		
		5+50		
N-15		6.3	11.1 ✓	
N		6.4	11.0	
℄		6.3	11.1	
S		6.1	11.3	
+15		6.1	11.3 ✓	
	South	5+53 E. End Laundry Boiler Room		✓
	0.4 Back	6.09	11.33	
		5+75		
S-0.4	Floor Laundry	6.07	11.35 ✓	
S		6.6	10.8	
+5		7.1	10.3	
℄		7.3	10.1	
N		7.2	10.2	
+10		7.1	10.3 ✓	
		6+00 E. Line of Thor		
N-15		7.8	9.6	
N		7.9	9.5	
+5		7.9	9.5	
℄		8.1	9.3	
+3		8.2	9.2	

		π 17.42		
+7		7.1	10.3	
S		6.9	10.5	
+0.4	Floor Laundry Boiler Room	6.03	11.39 ✓	
		E. Cb Line of Thor		
S-5		7.5	9.9	
S		8.2	9.2	
+2		8.3	9.1	
℄		8.3	9.1	
+8		8.2	9.2	
N		7.7	9.7	
		15' West of E Prop Line		
N-25		8.5	8.9	
N		8.5	8.9	
℄		8.4	9.0	
S		8.5	8.9	
S+25		8.5	8.9	
TP.	4.46	13.59	8.29	9.13
S+50		5.0	8.6	
S+100		5.6	8.0	
S+150	Parking N Line of Main	5.99	7.60 ✓	
check BM		6.53	7.06 B.P.	S.E. Thor + Main
			7.05 0.01 error	

Sommermeyer
W. Moore
Begg

Profile for Culvert Extention 52nd & El Cajon 7/31/44

Indexed C.S.I.C.



South curb El Cajon = Base line

0+00 = Face of curb 73.2 East of curb

return E.C. S.E. 52+ El Cajon.

B.M.: SWEP.

51st + El Cajon	0.88	387.67	–	386.79
	0.93	376.24 ✓	12.36	375.31
0+00 Top Grate			3.16	373.08
Top ck.				
" Ck. Broken			2.3	373.9
Walk Sunken				
0+14.3 Edge walk			2.44	373.80
0+19.7 " "			2.32	373.92
0+35			2.7	373.54
T.P.	0.37	364.56 ✓	12.05	364.19
0+50			5.4	359.2
5 Lt			2.3	362.3
5 Rt			2.8	361.8
0+50.7 Culvert Flow line			8.19	356.37
0+51			8.2	356.4
Bottom ditch 2 Lt			8.2	"
2 Lt Top bank			8.2	"
5 Lt			26	362.0

55.2
73.2
10.6

Profile - Culvert extention 52 19 + El Cajon

7-31-44

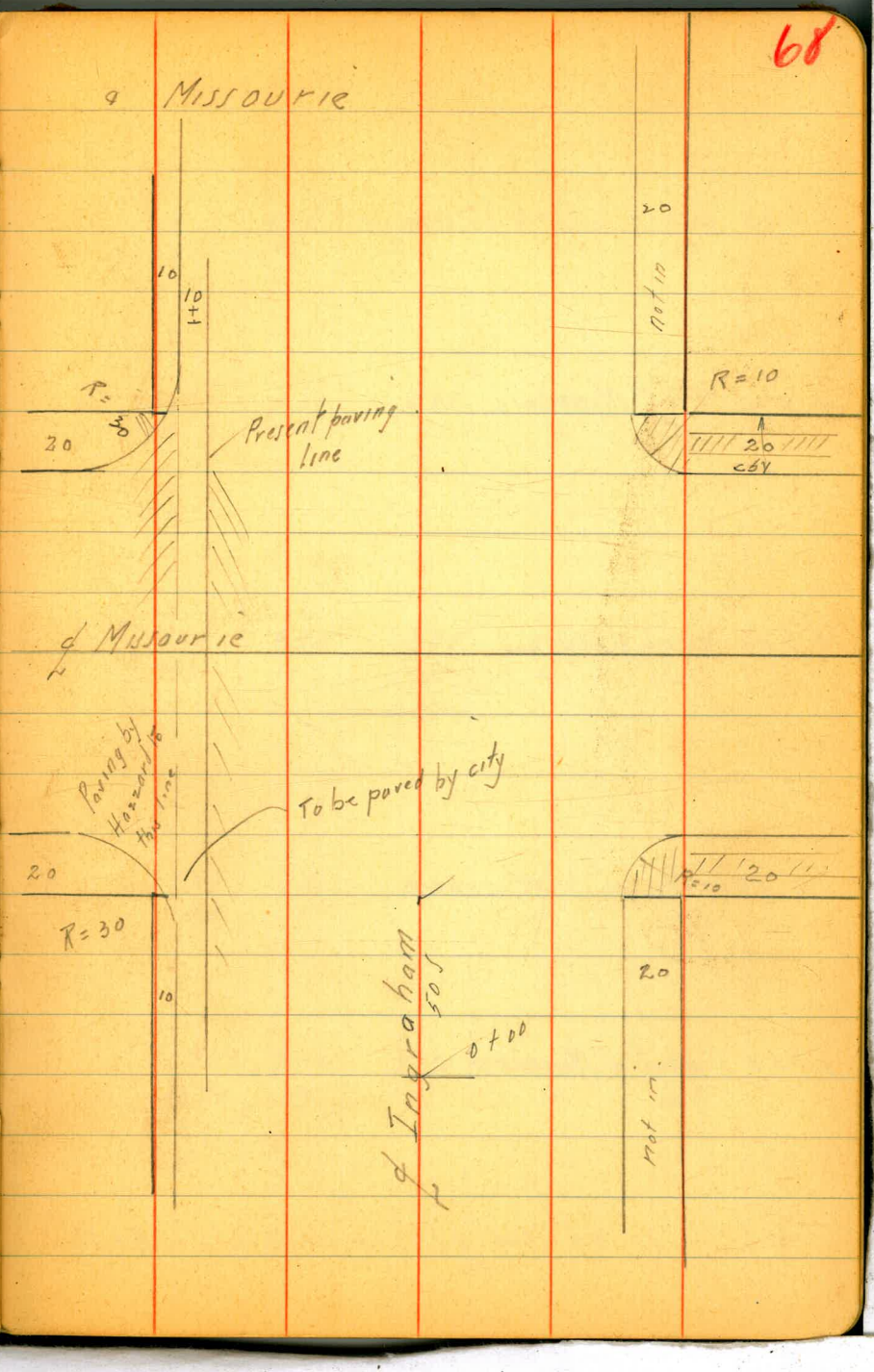
0+51. 2 Rt. Bottom ditch	364.56	8.2	356.4	
3 Rt. Top bank		4.5	360.1	
6 Rt		2.8	361.8	
0+77		8.5	356.1	
7 Lt		8.0	356.6	
10 Lt		5.5	359.1	
E. Edge flume 2 Rt.		9.2	355.4	
W. Edge flume 6 Rt.		9.3	355.3	
15 Rt		8.3	356.3	
1+00		10.4	354.2	
5 Lt		10.0	354.6	
10 Lt		5.0	359.6	
10 Rt		10.2	354.4	
11 Rt Bottom Wash		11.9	352.7	
13 Rt		10.2	354.4	
25 Rt		9.8	354.8	
1+14		11.2	353.4	
10 Lt		5.0	359.6	
5 Rt Bott Wash		13.5	351.1	
13 Rt " "		13.2	351.4	

1+14 15 Rt. top bank	364.56	11.0	353.6	
25 Rt		10.0	354.6	
1+25 Bottom Wash East side		13.7	350.9	
10 Lt		6.9	357.7	
6 Rt. Bottom Wash West side		14.0	350.6	
8 Rt. Top bank		11.6	353.0	
25 Rt		9.7	354.9	
1+50 Bottom Wash West side		15.0	349.6	
6 Lt Bottom Wash East side		14.9	349.7	
15 Lt		9.0	355.6	
1 Rt Top bank		13.3	351.3	
20 Rt		9.3	355.3	
T.P.	364.56			
	12.88	377.07	0.37	364.19 ✓
	11.67	387.77	0.97	376.10 ✓
orig. B.M. 386.79			0.98	386.79 ✓

Intersection of Ingraham & Missourie

Moore
Bugg
Sherman
Crawford

1/25/50



1 + 10	cb line N cb produced	5.90 19.8	5.82 10	4.75	4.70 10	5.00 20
0 + 90	℄ Missouri	6.35 19.7	5.80 10	5.28	5.20 10	5.40 20
0 + 70	curb produced	6.80 19.3	6.24 10	5.75	5.65 10	5.82 20.
0 + 50	S Line Missouri	7.24 19.0	6.70 10	6.20	6.08 10	6.04 20 3
0 + 00	50 S. ℄ Missouri	8.33 19.3 ~~20~~ edge of pav	7.72 10	7.30	7.20 10	7.30 19.3

11 22 94·81 8359 Diamond & Ingraham

					TP on	con drive				
			785	8 6.96	86.91					
1 + 50							3.57	2.90	2.42	2.34	2.50
							18.8	10		10	19.0
1 + 30	N Line	Missouri					5.16	4.64	4.15	4.10	4.22
		94.81					18.5	10		10	20

City Bench Marks

	Elevation
Talbot and Rosecrans	
N.E. Mon.	(21.383
Talbot at Old Jennings Place	
NE Cor., hd R.R. spike in pole at ground	107.041
Talbot, 1st pole, crest hill, near Homestead stables, head R.R. spike in pole at ground	229.537
Talbot and Catalina, inside Homestead property line near cedar tree, brass plug in concrete mon.	261.630
Catalina and Pena, NE Cor, inside property line, brass plug in C.M., 100' N of W.T.	375.164
Catalina and La Paloma, SW BP	235.46
Catalina and Varona NW BP	250.17
Rosecrans and Bessemer Lead Plug	28.05

Bench Marks

80

Silvergate + Gort line,				
C.T. in 2½" Pipe (City?)				358.42
S.E. Cor	℄ 143,	C.M.	Error in line 0.32	330.90
SW Cor	℄ 142,	C.M.		337.23
SW Cor	℄ 129,	C.M.		344.72
SE Cor	℄ 170,	C.M.	F+ & Bow	267.87
SW Cor	℄ 169,	C.M.	12 & 98 not?	267.75
NW Cor	℄ 169,	C.M.?	D+S Cor	249.68

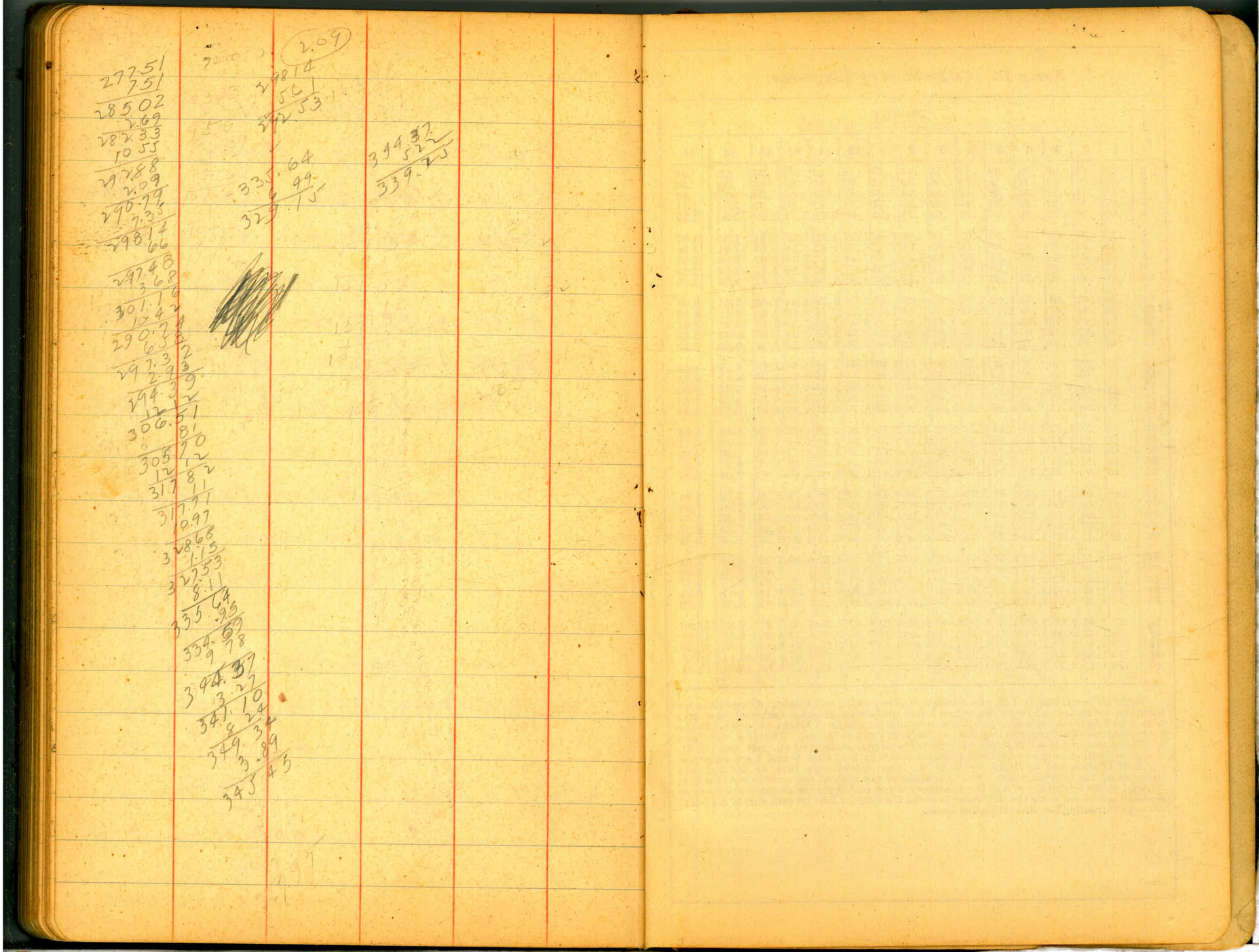


Table IX.—Calculation of Earthwork.

Width	HEIGHT														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.02	.04	.06	.07	.09	.11	.13	.15	.17	.18	.20	.22	.24	.26	.28
2	.04	.07	.11	.15	.18	.22	.26	.30	.33	.37	.41	.44	.48	.52	.56
3	.06	.11	.17	.22	.28	.33	.39	.44	.50	.56	.61	.67	.72	.78	.83
4	.07	.15	.22	.30	.37	.44	.52	.59	.67	.74	.81	.89	.96	1.04	1.11
5	.09	.19	.28	.37	.46	.56	.65	.74	.83	.93	1.02	1.11	1.20	1.30	1.39
6	.11	.22	.33	.44	.56	.67	.78	.89	1.00	1.11	1.22	1.33	1.44	1.55	1.67
7	.13	.26	.39	.52	.65	.78	.91	1.04	1.16	1.30	1.42	1.55	1.68	1.81	1.94
8	.15	.30	.44	.59	.74	.89	1.04	1.19	1.33	1.48	1.63	1.78	1.92	2.08	2.22
9	.17	.33	.50	.67	.83	1.00	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33	2.50
10	.18	.37	.56	.74	.93	1.11	1.30	1.48	1.67	1.85	2.04	2.22	2.41	2.59	2.78
11	.20	.41	.61	.82	1.02	1.22	1.43	1.63	1.83	2.04	2.24	2.44	2.65	2.85	3.06
12	.22	.44	.67	.89	1.11	1.33	1.56	1.78	2.00	2.22	2.44	2.67	2.89	3.11	3.33
13	.24	.48	.72	.96	1.20	1.44	1.68	1.92	2.16	2.41	2.65	2.89	3.13	3.37	3.61
14	.26	.52	.78	1.04	1.30	1.55	1.81	2.08	2.33	2.59	2.85	3.11	3.37	3.63	3.89
15	.28	.56	.83	1.11	1.39	1.67	1.94	2.22	2.50	2.78	3.06	3.33	3.61	3.89	4.17
16	.30	.59	.89	1.18	1.48	1.78	2.07	2.37	2.67	2.96	3.26	3.56	3.85	4.15	4.44
17	.31	.63	.94	1.26	1.57	1.89	2.20	2.52	2.83	3.15	3.46	3.78	4.09	4.41	4.72
18	.33	.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.33	4.67	5.00
19	.35	.70	1.06	1.41	1.76	2.11	2.46	2.82	3.17	3.52	3.87	4.22	4.57	4.92	5.28
20	.37	.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70	4.07	4.44	4.81	5.18	5.56
21	.39	.78	1.17	1.55	1.94	2.33	2.72	3.11	3.50	3.89	4.28	4.67	5.06	5.44	5.83
22	.41	.81	1.22	1.63	2.04	2.44	2.85	3.26	3.67	4.07	4.48	4.89	5.30	5.70	6.11
23	.43	.85	1.28	1.70	2.13	2.56	2.98	3.41	3.83	4.26	4.68	5.11	5.54	5.96	6.39
24	.44	.89	1.33	1.78	2.22	2.67	3.11	3.56	4.00	4.44	4.89	5.33	5.78	6.22	6.67
25	.46	.92	1.39	1.85	2.31	2.78	3.24	3.70	4.17	4.63	5.09	5.56	6.02	6.48	6.94
26	.48	.96	1.44	1.92	2.41	2.89	3.37	3.85	4.33	4.82	5.30	5.78	6.26	6.74	7.24
27	.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
28	.52	1.04	1.55	2.07	2.59	3.11	3.63	4.15	4.67	5.18	5.70	6.22	6.74	7.26	7.78
29	.54	1.07	1.61	2.15	2.68	3.22	3.76	4.30	4.83	5.37	5.91	6.44	6.98	7.52	8.06
30	.56	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00	5.55	6.11	6.67	7.22	7.78	8.33
31	.57	1.15	1.72	2.30	2.87	3.44	4.02	4.59	5.17	5.74	6.32	6.89	7.46	8.04	8.61
32	.59	1.18	1.78	2.37	2.96	3.56	4.15	4.74	5.33	5.92	6.52	7.11	7.70	8.30	8.89
33	.61	1.22	1.83	2.44	3.05	3.67	4.28	4.89	5.50	6.11	6.72	7.33	7.94	8.55	9.17
34	.63	1.26	1.89	2.52	3.15	3.78	4.40	5.04	5.67	6.29	6.93	7.56	8.18	8.81	9.44
35	.65	1.30	1.94	2.59	3.24	3.89	4.53	5.18	5.83	6.48	7.13	7.78	8.42	9.08	9.72
36	.67	1.33	2.00	2.67	3.33	4.00	4.66	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00
37	.68	1.37	2.06	2.74	3.42	4.11	4.79	5.48	6.17	6.85	7.54	8.22	8.91	9.59	10.28
38	.70	1.41	2.11	2.82	3.52	4.22	4.92	5.63	6.33	7.03	7.74	8.44	9.15	9.85	10.56
39	.72	1.44	2.17	2.89	3.61	4.33	5.05	5.78	6.50	7.22	7.95	8.67	9.39	10.11	10.83
40	.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.67	7.41	8.15	8.89	9.63	10.37	11.11

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 ½ 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 1½.

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	25.2	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.

Made in Germany.