
1017

KEUFFEL & ESSER CO.

DRAWING MATERIALS

AND

SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

Tables for Excavations and Embankments.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 18 feet wide. Side Slopes 1 to 1.

For Single Track Excavation.

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

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

Cross Section of Torrey Road from State & Prospect to

Alignment notes Book 1010 pg 20

N 863

									0+75		
	0.66	150.63		149.975	S.W Torrey Road & Prospect Pkg rd	15R				5.5	145.1 ✓
		0+00 = NL Prospect St				10				6.0	44.6
15L			2.1	148.5 ✓		C				6.0	44.6 ✓
10			1.6	49.0		10L				5.8	44.8
C			1.1	49.5 ✓		15L				6.7	44.5 ✓
10R			0.9	49.7					1+00		
15R			0.7	49.9 ✓		15L				8.2 ✓	42.2 ✓
		0+25				10				8.1	42.5
15R			2.6	48.0 ✓		C				8.2	42.4 ✓
10			2.5	48.1		10				8.3	42.3
C			2.2	48.2 ✓		15R				7.3	43.3 ✓
10			2.7	47.9					1+25		
15L			3.0	47.6 ✓		15R				10.7	39.9 ✓
		0+50 →				10				10.7	39.9
15L			4.2	46.4 ✓		C				10.4	40.2 ✓
10			4.0	46.6		10				10.2	40.4
C			4.0	46.6 ✓		15L				10.4	40.2 ✓
10R			4.1	46.5		T.P	0.83	138.98 ✓		11.98	138.66 ✓
15			4.8	145.8 ✓							

		1389P						138.98			
		1+50						2+25			
15 L			0.7	138.3	✓	15 R			6.1	132.9	✓
10			0.6	38.4		10			6.4	32.5	
C			0.7	38.3	✓	C			6.1	32.9	✓
10			1.2	37.8		10			6.5	32.5	
15 R			1.0	38.0	✓	15 L			7.0	32.0	✓
		1+76 LC PC						2+50			
15 R			3.1	36.9	✓	15 L			9.1	39.9	✓
10			3.2	35.8		10			8.5	30.5	
C			2.7	36.3	✓	C			7.9	31.1	✓
10			2.6	36.4		10			8.4	30.6	
15 L			2.9	36.1	✓	15 R			8.6	30.4	✓
		2+00						2+75			
15 L			4.9	34.1	✓	15 R			10.5	28.5	✓
10			4.5	34.5		10			10.4	28.6	
C			4.3	34.7	✓	C			9.8	29.2	✓
10			4.5	34.5		10			10.3	28.7	
15 R			4.6	34.4	✓	15 L			10.8	128.2	✓
						T.P.	0.78	137.35	11.91	127.01	

		127.85								127.35				
		3+00								3+75				
10L			0.9	126.5	✓	15R			4.8	122.6	✓			
10			0.4	27.0		11			4.9	22.5				
C			0.0	27.4	✓	10			5.4	21.6				
10			0.4	27.0		6			5.1	22.3				
11			0.9	26.5										
15R			0.4	27.0	✓	C			4.6	22.8	✓			
		3+25				10			5.0	22.4				
15R			1.8	25.6	✓	15L			5.4	22.0	✓			
11			2.4	25.0				4+00						
10			2.1	25.3		15L			6.7	20.7	✓			
C			1.5	25.9	✓	10			6.3	21.1				
10L			2.1	25.3		C			6.1	21.3	✓			
						9			6.8	20.6				
15			2.6	24.8	✓	10			7.2	20.2				
		3+50				12			6.4	21.0				
15L			3.0	23.4	✓	15R			6.3	21.1	✓			
10			3.5	23.9		15R		4+25	7.7	19.7				
C			3.1	24.2	✓	10			7.9	19.5				
10			3.7	23.7		C			7.3	20.1	✓			
14			3.8	23.8		10			7.6	19.8				
15R			3.3	124.1	✓	15L			8.0	119.4	✓			

		127.35				Spk Gas Co ½ E60		119.5H	127.35				
		4+50							5+13.76 EC				
15L			F.9	118.5	✓	15R				11.4	116.0	✓	
10			8.4	19.0		10				11.3	16.1		
C			8.4	19.0	✓	C				10.7	16.7	✓	
10			8.9	18.5		10				10.8	16.6		
15			9.3	18.1		15L				11.1	16.3	✓	
15R			8.9	18.5	✓				5+25				
		4+75				15L				11.4	16.0	✓	
15R			10.1	17.3	✓	10				11.1	16.3		
10			10.1	17.3		C				11.1	16.3	✓	
C			9.5	17.9	✓	10				11.7	15.7		
10			9.6	17.8		15R				11.7	15.7	✓	
15L			9.9	17.5	✓	T.P.		0.60	116.02 ✓	11.93	115.43 ✓		
		5+00							5+50				
15L			10.7	16.7	✓	15R				1.8	14.7	✓	
10			10.4	17.0		10				1.9	14.1		
C			10.3	17.1	✓	C				1.7	14.3		
10			11.0	16.4		10				0.9	15.1	✓	
15R			11.0	116.4	✓	15L				0.7	15.3		
										1.0	115.0	✓	

116.02

5+75

15L	2.1	113.9	✓
10	1.6	14.5	
C	1.6	14.4	✓
10	2.2	13.8	
15R	2.4	13.6	✓

6+03 ~~28~~ PC

15R	3.3	12.7	✓
10	3.1	12.9	
C	2.7	13.3	✓
10	2.8	13.2	
15L	3.2	12.8	✓

6+25

15L	4.3	11.7	✓
10	3.9	12.1	
C	3.6	12.4	✓
10	3.8	12.2	
15R	4.1	11.9	

116.02

6+50

15R	5.0	111.0	✓
10	4.7	11.3	
C	4.5	11.5	✓
10	4.9	11.1	
15L	5.3	10.7	✓

6+75

15L	7.2	8.8	✓
15	6.3	9.7	
10	6.2	9.8	
C	5.5	10.5	✓
10	5.5	10.5	
15R	5.8	10.2	✓

7+00

15R	6.2	9.8	✓
10	6.1	9.9	
C	6.1	9.9	✓
10	6.9	9.1	
15	7.2	8.8	
	8.1	107.6	✓

		116.07								116.07				
		7+25								7+77 63 PC				
15L			8.0	108.0	✓		15R				9.1	106.9	✓	
15			7.5	8.5			10				8.8	7.2		
10			7.4	8.6			C				8.5	7.5	✓	
C			6.7	9.3	✓		10				8.8	7.2		
10			6.8	9.2			15L				9.2	6.8	✓	
15R			7.0	9.0	✓					8+00				
		7+50					15L				10.1	5.9	✓	
15R			8.0	8.0	✓		10				9.7	6.3		
10			7.7	8.3			C				9.4	6.6	✓	
C			7.5	8.5	✓		10				9.6	6.4		
10			8.0	8.0			15R				9.9	6.1	✓	
15L			8.2	7.8	✓					8+25				
		7+70 83 EL					15R				10.9	5.1	✓	
15L			8.8	7.2	✓		10				10.6	5.4		
10			8.5	7.5			C				10.4	5.6	✓	
C			8.2	7.8	✓		10				10.8	5.2		
10			8.6	7.4			15L				11.2	4.8	✓	
15R			8.8	107.2	✓		T.P.	0.04		104.06 ✓	17.00	104.02 ✓		

		104.06							104.06			
		P+50							9+25			
15L			0.2	103.7	✓	15R				22	99.7	✓
10			0.0	4.1		10				23	99.8	
C			+0.2	4.3	✓	C				22	99.9	✓
10			+0.1	4.2		10				21	99.1	
15R			0.2	3.9	✓	15L				23	99.2	✓
		8+75							9+50			
15R			1.6	2.5	✓	15L				6.5	97.6	✓
10			1.3	2.8		10				6.1	98.0	
C			1.2	2.9	✓	C				5.8	98.3	✓
10			1.1	2.7		10				5.9	98.2	
15L			1.7	2.4	✓	15R				6.2	97.9	
		9+00							9+77.18			
15L			3.3	100.8	✓	15R				8.2	95.9	✓
10			2.9	101.2		10				7.8	96.3	
C			2.7	101.1	✓	C				7.6	96.5	✓
10			2.8	101.3		10				8.0	96.1	
15R			3.0	101.1	✓	15L				8.5	95.6	✓
B.M R.R. Spk Ga&Co. Pole #1650			3.42	100.64								

		104.06						92.56					9
		10+00						10+75					
15L			10.1	94.0	✓		15R		3.2	89.4	✓		
10			9.8	94.3			10		3.2	89.4			
C			9.5	94.6	✓		C		3.3	89.3	✓		
10			9.5	94.6			10		4.2	88.2			
15R			9.8	94.3	✓		15L		4.4	87.9	✓		
		10+25						11+00					
15R			11.6	92.5	✓		15L		5.4	86.9	✓		
10			11.2	92.7			10		5.2	87.4			
C			11.2	92.7	✓		C		4.5	88.1	✓		
10			11.9	92.2			10		4.2	88.2			
15L			12.1	92.0	✓		15R		4.5	88.1	✓		
T.P.	0.49	92.56	11.99	92.07				11+25					
		10+50					15R		5.4	86.9	✓		
15L			2.5	90.1	✓		10		5.6	87.0			
10			2.2	90.4			C		5.5	87.1	✓		
C			1.7	90.9	✓		10		5.9	86.7			
10			1.7	90.9			15L		6.3	86.3	✓		
15R			1.8	90.8	✓								

92.56

11+50

15 L		7.3	85.3	✓
10		7.1	85.5	
C		6.7	85.9	✓
10		6.7	85.9	
15 R		7.0	85.6	✓

11+75

15 R		8.1	84.5	✓
10		7.8	84.8	
C		7.5	85.1	✓
10		7.9	84.7	
15 L		8.1	84.2	✓

12+00

15 L		9.8	82.8	✓
10		9.0	83.6	
C		8.4	84.2	✓
10		8.7	83.9	
15 R		8.8	83.8	✓

92.56

12+25

15 R		9.5	83.1	✓
10		9.4	83.2	
C		9.2	83.4	✓
10		9.9	82.7	
15 L		10.5	82.1	✓

12+50

15 L		10.7	81.9	✓
10		10.3	82.3	
C		9.6	83.0	✓
10		9.9	82.9	
15 R		10.1	82.5	✓

12+75

15 R		10.3	82.3	✓
10		9.9	82.7	
C		9.7	82.9	✓
10		10.3	82.3	
15 L		10.7	81.9	✓
T.P	6.82	89.00 ✓	1038	82.18 ✓

		89.00						89.00			
		13+00						14+29.97 P.C.			
15 L			7.1	81.6	✓	15 R			5.3	83.7	✓
10			6.9	82.1		10			5.1	83.9	
C			6.2	82.8	✓	C			5.1	83.9	✓
10			6.2	82.7		10			5.7	83.3	
15 R			6.7	82.3	✓	15 L			6.0	83.0	✓
		13+50						14+50			
15 R			6.3	82.7	✓	15 L			5.6	83.4	✓
10			6.1	82.9		10			5.4	83.6	
C			6.1	82.9	✓	C			4.8	84.2	✓
10			6.7	82.3		10			4.7	84.3	
15 L			7.2	81.8	✓	15 R			4.9	84.1	✓
		14+00						15+00			
15 L			6.5	82.5	✓	15 R			4.6	84.4	✓
10			6.1	82.9		10			4.4	84.6	
C			5.6	83.4	✓	C			4.6	84.4	✓
10			5.6	83.4		10			5.2	83.8	
15 R			5.7	83.3	✓	15 L			5.7	83.3	✓

		89.00							89 00					
		15+60							17+00					
15L			5.7	83.3	✓		15 R			2.1	86.9	✓		
10			5.2	83.8			10			1.9	87.1			
C			4.6	84.4	✓		C			1.9	87.1	✓		
10			4.5	84.5			10			2.2	86.8			
15R			4.8	84.2	✓		15 L			2.7	86.3	✓		
		16+00					TiP	11.96	100.85	0.11	88.89			
15R			4.4	84.6	✓				17+50					
10			4.2	84.8			15L			11.6	89.3	✓		
C			4.2	84.8	✓		10			11.3	89.6			
10			5.0	84.0			C			11.1	89.8	✓		
15 L			5.5	83.5	✓		10			11.6	89.3			
		16+50					12 15R			11.8 13.5	89.0 87.3	✓		
15L			4.6	84.4	✓		19			14.2	86.6			
10			4.1	84.9					17+79 LEC.					
C			3.3	85.7	✓		18R			12.0	88.8			
10			3.2	85.8			15 13			11.8 9.9	89.0 90.9	✓		
15R			3.3	85.7	✓		10			9.7	91.1			
BM R.R. Spk. Gas Co Pole# 1804			5.50	83.50	✓ = 83.86		C			9.3	91.5	✓		
							10			9.5	91.3			
							15 L			9.7	91.1	✓		

		100.85								
		18+00								
15L			8.7	92.1'	✓	Top Ob. W So Side Primrose 10' N of P.L.		2×1	98.61'	
10			8.4	92.4'		Top C.B. W So. side "		3.×5	97.60'	
C			8.2	92.6'	✓	" " No " "		1.72	98.13'	
10			8.6	92.2'		Top Ob E No Side Primrose 10' N of P.L.		1.98	98.92	
15			8.8	92.0'		T.P.	3.54	104.30	0.09	100.76' Nub. N.E Cor Primrose
13			10.1	90.7'				19+50		
15			10.3	90.5'	✓	15R			48	99.5' ✓
17R			8.8	92.0'		10			1.6	99.7'
		18+50				C			4.5	99.8' ✓
15R			6.1	94.7'	✓	10L			4.9	99.4'
10			6.0	94.8'		15			5.3	99.0' ✓
C			5.7	95.1'	✓			19+75		
10			6.2	94.6'		15L			3.7	100.6' ✓
15L			6.6	94.2'	✓	10.			3.6	100.7'
		19+00				C			3.5	100.8' ✓
15L			4.4	96.4'	✓	10			3.9	100.4'
10			3.9	96.9'		15R			3.9.	100.4' ✓
C			3.3	97.5'	✓					
10			3.1	97.7'						
15R			2.9	97.9'	✓					

104.30

20+00

15 R		2.5	101.8	✓	15 L		3.9	100.4	✓
10		3.1	101.2		10		4.4	99.9	
9		3.5	100.8		9		5.2	99.1	
C		3.0	101.3	✓	C		4.2	100.1	✓
10		3.0	101.3		10		1.5	102.8	
15 L		3.4	100.9	✓	15		1.1	103.2	✓
	20+25				20 R		0.7	103.6	
15 L		3.0	101.3	✓		20+97.28 PC			
10		2.8	101.5		20 R		1.8	102.5	
C		3.1	101.2	✓	15		2.2	102.1	✓
3		3.5	100.8		10		2.3	102.0	
10		2.2	102.1		5		2.8	101.5	
15		1.3	103.0	✓	C		6.3	98.0	✓
20 R		0.5	103.8		10		5.4	98.9	
	20+50								
20 R		0.0	104.3		15 L		5.1	99.2	✓
15		0.0	104.3	✓					
10		1.0	103.3						
C		3.9	100.4	✓					
10		3.2	101.1						
15 L		3.2	101.1	✓					

	104.30				
	21+25				
15 L		6.6	97.7	✓	
10		6.4	97.9		
C		7.2	97.1	✓	
8		7.8	96.5		
10		3.9	100.4		
15		5.3	101.0	✓	
20 R.		2.6	101.7		
	21+50				
20 R		3.8	100.5		
15		4.3	100.0	✓	
14		4.7	99.6		
10		9.2	95.1		
C		8.2	96.1	✓	
10		7.6	96.7		
15 L		7.9	96.4	✓	

	21+69.05 EC.			
15 L		9.3	95.0	✓
10		9.0	95.3	
C		9.5	94.8	✓
10		10.4	93.9	
11		10.1	94.2	
14		6.3	98.0	
15		6.3	98.0	✓
20 R		5.9	98.4	
	22+00			
20 R		5.1	99.2	
15		8.0	96.3	✓
10		11.5	92.8	
7		11.8	92.5	
C		11.4	92.9	✓
10		11.3	93.0	
13		11.4	92.9	
15		12.8	91.5	✓
20 L		14.4	89.9	
BM. Spk Gas Co Pole # 2020		10.50	93.80	

		104.30			
		22+50			
20 R-01K			6.6	97.7	
16			7.9	96.4	
15			8.6	95.7	
T.P.	2.16	94.46	12.0.0	92.30	
12			3.0	91.5	
10			3.2	91.3	
C			2.6	91.9	
10			2.9	91.6	
15 L			3.1	91.4	
		23+00			
25 L			10.2	84.3	
15			5.7	88.6	
12			4.0	90.5	
10			3.8	90.7	
C			3.3	91.2	
10			3.9	90.6	
12			3.6	90.9	
15			1.3	93.2	
20 R			+0.7	95.2	

22+50			
20 R	+5.5	100.0	
15	+1.6	96.1	
10	3.4	91.1	
8	4.2	90.3	
C	3.8	90.7	
10	3.9	90.6	
15 L	3.9	90.6	
23+75 42 RC.			
15 L	4.5	90.0	
10	4.0	90.5	
C	4.1	90.4	
8	4.5	90.0	
10	2.9	91.6	
15	+1.1	95.6	
20 R	+4.1	98.6	

94.46

24+00

20 R		+2.8	97.3	✓
17		+2.3	96.8	✓
15		1.0	93.5	✓ ✓
10		4.5	90.0	✓
9		4.8	89.7	✓
C		4.3	90.2	✓ ✓
10		4.4	90.1	✓
12		4.4	90.1	✓
15		5.9	88.6	✓ ✓
25 L		9.1	85.4	✓

24+50

25 L		9.0	85.5	✓
15		7.5	87.0	✓ ✓
10		5.0	89.5	✓
C		4.3	90.2	✓ ✓
10		4.8	89.7	✓
14		5.2	89.2	✓
13		4.3	90.2	✓
15		3.5	91.0	✓ ✓
20 R		2.5	92.0	✓

25+00

15 R	4.6	89.9	✓ ✓
10	4.0	90.5	✓
C	3.9	90.6	✓ ✓
10	4.7	89.8	✓
15	4.8	87.7	✓ ✓
25 L	8.6	85.9	✓

25+50

25 L	7.4	87.1	✓
15	5.1	89.4	✓ ✓
12	3.8	90.7	✓
10	3.8	90.7	✓
C	3.3	91.2	✓ ✓
10	3.7	90.8	✓
12	3.7	90.8	✓
15	1.0	93.5	✓ ✓
20 R	+3.1	97.6	✓

9446

25+67 41' EC.

20 R			+3.4	97.9	
15			0.4	94.1	✓
12			2.3	91.2	
10			3.3	91.2	
C			3.0	91.5	✓
10			3.2	91.3	
15			4.0	90.5	
20 L			4.9	89.6	
		26+00			
15 L			1.8	92.7	
10			2.4	92.1	
8			2.7	91.8	
C			2.5	92.0	✓
10			2.4	92.1	
15			2.7	91.8	

26+25

15 R			1.6	92.9	✓
13			1.6	92.9	
10			2.7	91.8	
C			2.7	91.8	✓
9			2.9	91.6	
10			2.5	92.0	
15 L			1.8	92.7	✓
T.P.	0.39	91.03	3.8	90.6	
		26+50			
15 L			0.0	91.0	✓
10			0.6	90.4	
C			0.3	90.7	✓
10			0.6	90.4	
12			0.7	90.3	
15			+1.2	92.2	✓
17			+2.8	93.8	
20 R			+2.2	93.2	

		91.03						
		26+75				27+25		
20 R			+3	94.4		15 R	2.5	88.5	✓
15			0.2	90.8	✓	12	4.1	86.9	
12			1.7	89.3		10	4.2	86.8	
10			1.7	89.3		C	3.8	87.2	✓
C			1.4	89.6	✓	10	4.3	86.7	
10			1.8	89.2		15 L	4.3	86.7	✓
15 L			1.6	89.4	✓				
		27+07 ½ PC				27+50			
						20 L	5.9	85.1	
15 L			3.6	87.4	✓	15	5.8	85.2	✓
10			3.4	87.6		13	6.1	85.9	
C			3.1	87.9	✓	10	4.9	86.1	
10			3.6	87.4		C	4.6	86.4	✓
12			3.8	87.2		10	4.9	86.1	
15 R			2.3	88.7	✓	12	4.9	86.1	
						15 R	3.9	87.1	✓

91.03

27+65½ P.C.

15 R		4.2	86.8'	✓	
13		5.3	85.7'		
10		5.3	85.7'		
C		5.0	86.0'	✓	
10		5.6	85.4'		
15 L		6.2	84.8'	✓	
	28+00				
25 L		12.2	78.8'		
15		7.6	81.4'	✓	
10		6.3	84.7'		
C		5.9	85.1'	✓	
10		6.1	84.9'		
11		6.3	84.7'		
13		5.4	85.6'		
14		3.8	87.2'		
15		3.8	87.2'	✓	
20 R		2.7	88.3'		

SEE BOOK 1086 for notes from 28+50 on

28+50

20 R		+0.6	91.6'	
17		0.7	90.3'	
15		2.0	89.0'	✓
14		3.0	88.0'	
10		5.0	86.0'	
8		7.1	83.9'	
C		6.5	84.5'	✓
10		6.5	84.5'	
12		6.6	84.4'	
15		8.0	83.0'	✓
20 L		10.3	80.7'	
	28+72 15 P.C.			
25 L		13.5	77.5'	
15		8.4	82.6'	✓
12		6.8	84.2'	
10		6.6	84.4'	
C		6.7	84.3'	✓
8		9.5	83.5'	
10		6.5	84.5'	
14		2.0	89.0'	
16		1.7	89.3'	✓
20 R		0.6	91.6'	

		91.03								
T.P	2.36	85.76	7.63	83.40		BM. Spk Gas Co Pole # 2740	4.21	81.55	OK. 81.52	
		29+00				29+50				
20 R			+46	90.4		20 R		+2.3	88.1	
15			+3.2	89.0	✓	15		+1.0	86.8	✓
10			2.6	83.2		10		1.6	84.2	
C			2.4	83.4	✓	8		4.0	81.8	
10			2.3	83.5		C		3.3	82.5	✓
11			2.4	83.4		10		3.0	82.8	
15			5.4	80.4	✓	14		3.3	82.5	
30 L			12.9	72.9		15		3.8	82.0	✓
		29+25				25 L		8.0	77.8	
25 L			9.4	76.4		25 L		8.9	76.9	
15			5.3	80.5	✓	15		4.4	81.4	✓
12			2.9	82.9		13		3.4	82.4	
10			2.7	83.1		10		3.2	82.6	
C			3.0	82.8	✓	C		3.7	82.1	✓
9			3.4	82.4						
10			3.0	82.8		8		4.5	81.3	
15			+0.4	86.2	✓	10		2.8	83.0	
						15		+1.0	86.8	✓
20 R			+2.6	88.4		20		+2.1	87.9	

85.76

30+00

20 R		+1.5	87.3	
15		+0.3	86.1	✓
10		5.0	80.8	
C		-4.1	81.7	✓
10		3.8	82.0	
12		3.9	81.9	
15		6.0	77.8	✓
25 L		10.5	75.3	

30+21.62 EC.

25 L		12.0	73.8	
15		7.4	78.4	✓
11		4.8	81.0	
10		4.8	81.0	
C		4.9	80.9	✓
9		5.8	80.0	
10		5.0	80.8	
15		2.3	83.5	✓
20 R		40.8	86.6	

30+50

20 R		0.50	85.3	
15		3.0	82.8	✓
10		7.5	78.3	
C		6.5	79.3	✓
10		6.6	79.2	
11		6.6	79.2	
15		9.5	76.3	✓
25 L		13.6	72.2	

31+00

25 L		17.0	68.8	
15		13.6	72.2	✓
10		9.5	76.3	
C		9.0	76.8	✓
10		9.5	76.3	
11		9.2	76.6	
15		6.5	79.3	✓
20 R		3.3	82.5	

83.5 ✓ 77 ✓

85.76 ✓

31+43.27 PC

20 R		3.9	81.9 ✓		
15		7.8	78.0 ✓	✓	
10		10.9	74.9 ✓		
C		10.5	75.3 ✓	✓	
10		10.9	74.9 ✓		
11		10.8	75.0 ✓		
15		13.6	72.2 ✓	✓	
25 L		18.0	67.8 ✓		
T.P.	1.07	11.47	74.29 ✓		

75.36

31+75 ✓

25 L		8.4	67.0 ✓		
15		2.9	72.5 ✓	✓	
13		1.3	74.1 ✓		
10		1.1	74.3 ✓		
C		1.1	74.3 ✓	✓	
7		1.6	73.8 ✓		
10		+0.3	75.7 ✓		
15		+4.1	79.8 ✓	✓	
20 R		+6.7	82.1 ✓		

25
Page 2

32+00 ✓

20 R		+6.6	82.0 ✓		
15		+3.6	79.0 ✓	✓	
10		+0.5	75.9 ✓		
5		-2.4	73.0 ✓		
C		-2.0	73.4 ✓	✓	
10		-2.0	73.4 ✓		
15 L		-2.3	73.1 ✓	✓	
T.P.	1.12	74.60	1.88	73.48 ✓	Hub on bank opp sta 32+25

32+75 ✓

15 L		-2.5	72.1 ✓	✓	
10		-2.3	72.3 ✓		
C		-2.4	72.2 ✓	✓	
5		-2.6	72.0 ✓		
10		+1.2	75.8 ✓		
15		+4.4	79.0 ✓	✓	
20 R		+7.0	81.6 ✓		

74.60

32+50 ✓

20 R		+6.0	80.6 ✓	
15		+3.9	78.5 ✓	✓
10		0.8	73.8 ✓	
6		-3.6	71.0 ✓	
C		3.1	71.5 ✓	✓
10		3.1	71.5 ✓	
15 L		3.4	71.2 ✓	✓

32+75 ✓

20 L		8.1	66.5 ✓	
15		5.6	69.0 ✓	✓
18		4.2	70.4 ✓	
10		4.0	70.6 ✓	
C		3.9	70.7 ✓	✓
9		4.4	70.2 ✓	
10		3.7	70.9 ✓	
15		+1.4	76.0 ✓	✓
20 R		+3.4	78.0 ✓	

33+00 ✓

20 R		0.0	74.6 ✓	
15		1.4	73.2 ✓	✓
14		4.8	69.8 ✓	
10		4.8	69.8 ✓	
C		4.4	70.2 ✓	✓
10		5.0	68.6 ✓	
15		8.3	66.3 ✓	✓
25 L		11.2	63.4 ✓	

33+25 ✓

25 L		10.8	63.8 ✓	
15		9.2	65.3 ✓	✓
10		6.9	67.7 ✓	
8		5.6	69.0 ✓	
C		4.8	69.8 ✓	✓
10		4.9	69.7 ✓	
15 R		5.2	69.4 ✓	✓

67.76 B.M. Pole 2320 = 0+00 E.C.

	74+60						34+03 ^{41} EC ✓		
	33+50 ✓								
15 R		5.5	69.1 ✓	✓	15 R		4.9	69.7 ✓	✓
10		4.9	69.7 ✓		10		4.8	69.8 ✓	
C		5.1	69.5 ✓	✓	C		4.9	69.7 ✓	✓
8		6.0	68.6 ✓		10		5.8	68.8 ✓	
10		6.5	68.1 ✓		15		6.9	67.7 ✓	✓
15		8.7	65.9 ✓	✓	20 L		7.6	67.0 ✓	
25 L		9.6	65.0 ✓				34+45 Cul ✓		
	33+75 ✓				20 L		7.4	67.2 ✓	
25 L		8.9	65.7 ✓		15	bottom box cul	7.5	67.1 ✓	
15		7.1	67.5 ✓	✓	11	Top	C.L. 6.8	68.2 ✓	✓
10		6.1	68.5 ✓		10		5.3	69.3 ✓	
C		5.3	69.3 ✓	✓	C		5.3	69.3 ✓	
10		5.0	69.6 ✓		10		4.7	69.9 ✓	✓
15 R		5.2	69.4 ✓	✓	15		4.7	69.9 ✓	
							5.2	69.4 ✓	✓
					15 - bottom box cul		6.5	68.1 ✓	
					20		6.1	68.5 ✓	

	34+50				
15 R		4.1	70.5	✓	
1r		4.9	69.7		
10		5.0	69.6		
C		4.6	70.0	✓	
10		5.2	69.2		
15 L		5.8	69.3	✓	
	34+75				
15 L		4.1	70.5	✓	
1r		5.5	69.1		
10		5.5	69.1		
C		5.0	69.6	✓	
10		5.3	69.3		
11		5.2	69.4		
15		1.6	73.0	✓	
20 R		1.2	73.4		

		35+00			
20 R			0.5	74.1	
15			1.6	73.0	✓
11			5.9	68.7	
10			6.2	68.4	
C			5.8	68.8	✓
10			6.5	68.1	
1r			6.5	68.1	
15			4.3	70.3	✓
20 L			4.7	69.9	
T.P	1.28	70.06	6.82	68.78	
		35+25			
20 L			4.6	65.5	
15			3.4	66.7	✓
10			3.1	67.0	
C			2.6	67.5	✓
10			2.8	67.3	
15			1.6	68.5	✓
20 R			1.0	69.1	

70.06 ✓

35+75 ✓

20 R			3.6	66.5 ✓						
15			4.4	65.7 ✓	✓					
1Y			5.6	64.5 ✓						
10			5.3	64.8 ✓						
C			5.0	65.1 ✓	✓					
10			5.8	64.3 ✓						
13			6.0	64.1 ✓						
15			7.1	63.0 ✓	✓					
20 L			8.5	61.6 ✓						
		36+25 ✓								
20L			6.8	63.8 ✓						
15			6.2	63.9 ✓	✓					
14			6.3	63.8 ✓						
1Y			7.8	62.3 ✓						
10			8.0	62.1 ✓						
C			7.4	62.7 ✓	✓					
10			7.7	62.4 ✓						
14			7.9	62.2 ✓						
15 R			6.8	63.3 ✓	✓					

36+75 ✓

15R			10.8	59.3 ✓	✓					
10			10.6	59.5 ✓						
C			10.4	59.7 ✓	✓					
10			10.6	59.5 ✓						
15L			10.2	59.9 ✓	✓					
TP	2.67	60.71 ✓	12.02	58.04 ✓						
		37+25 ✓								
2.5L			7.6	53.1 ✓						
15			6.5	54.2 ✓	✓					
10			3.8	56.9 ✓						
9			3.4	57.3 ✓						
C			2.9	57.8 ✓	✓					
10			2.9	57.8 ✓						
14			3.2	57.5 ✓						
15			3.5	57.2 ✓	✓					
20R			4.0	56.7 ✓						

60.71 ✓

37+35 Cul.

20 R		4.6	56.1 ✓	
15		3.4	57.3 ✓	✓
13		3.1	57.6 ✓	
10		3.0	57.7 ✓	
C		3.1	57.6 ✓	✓
9p		3.5	57.2 ✓	
10		4.0	56.7 ✓	
15		6.5	54.2 ✓	✓
25 L		8.0	52.7 ✓	
	37+75 ✓			
25 L		8.9	51.8 ✓	
15		6.6	54.1 ✓	✓
10		4.1	56.6 ✓	
8		3.7	57.0 ✓	
C		3.1	57.6 ✓	✓
10		3.0	57.7 ✓	
15 R		3.4	57.3 ✓	

✓

38+20 ex p.c

20 R	+2.0	62.7 ✓	
15	1.1	59.6 ✓	✓
10	3.1	57.6 ✓	
C	2.9	57.8 ✓	✓
10	3.2	57.5 ✓	
15 L	3.1	57.6 ✓	✓
38+50 ✓			
20 L	2.8	57.9 ✓	
15	2.1	58.6 ✓	✓
13	2.2	58.5 ✓	
10	3.8	56.9 ✓	
C	3.3	57.4 ✓	✓
10	3.5	57.2 ✓	
15	0.6	60.1 ✓	✓
20 R	+ 1.8	62.5 ✓	

60.71

38+75 ✓

20R			0.8	59.9 ✓				
15			1.0	59.7 ✓	✓			
10			4.7	56.0 ✓				
C			4.5	56.2 ✓	✓			
10			5.2	55.5 ✓				
15			5.0	55.7 ✓				
15			2.2	58.1 ✓	✓			
20 L			2.9	57.8 ✓				

39+00 ✓

20L			5.2	55.5 ✓				
15			5.4	55.3 ✓	✓			
10			7.0	53.7 ✓				
10			7.0	53.7 ✓				
C			6.3	54.4 ✓	✓			
10			6.2	54.5 ✓				
15			6.4	54.3 ✓				
15 R			5.2	55.5 ✓	✓			

15R			8.5	52.2 ✓	✓			
10			8.0	52.7 ✓				
C			8.1	52.6 ✓	✓			
10			7.7	53.0 ✓				
15			10.1	50.6 ✓	✓			
20 L			10.9	49.8 ✓				

39+50 ✓

20 L			12.8	47.9 ✓				
15			12.0	48.7 ✓	✓			
10			10.3	50.4 ✓				
C			9.7	51.0 ✓	✓			
10			9.4	51.3 ✓				
15R			9.7	51.0 ✓	✓			

39+75 ✓

15R			10.4	50.3 ✓	✓			
10			10.4	50.3 ✓				
C			11.0	49.7 ✓	✓			
10			11.6	49.1 ✓				
15 L			12.5	48.2 ✓	✓			

		60.71								
T.P	1.79	51.59	10.91	49.80 ✓		15 R		6.3	45.3 ✓	✓
		40+25 ✓				10		5.7	45.9 ✓	
15 L			3.9	47.7 ✓	✓	C		5.8	45.8 ✓	✓
10			3.5	48.1 ✓		10		6.1 ✓	45.2 ✓	
C			3.0	48.6 ✓	✓	15 L		6.8	44.8 ✓	✓
10			2.5	49.1 ✓				42+25		
15 R			2.6	49.0 ✓	✓	15 L		8.2	43.4 ✓	✓
		40+75 ✓				10		7.9	43.7 ✓	
15 R			3.7	47.9 ✓	✓	C		7.3	44.3 ✓	✓
10			3.5	48.1 ✓		10		7.3	44.3 ✓	
C			3.7	47.9 ✓	✓	13		7.6	44.0 ✓	
10			4.2	47.4 ✓		15 R		7.9	43.7 ✓	✓
15 L			4.8	46.8 ✓	✓			42+75 ✓		
		41+25 ✓				15 R		9.7	41.9 ✓	✓
15 L			5.4	46.2 ✓	✓	10		9.3	42.3 ✓	
10			5.1	46.5 ✓		C		9.1	42.5 ✓	✓
C			4.5	47.1 ✓	✓	10		9.7	41.9 ✓	
10 R			4.5	47.1 ✓		15 L		10.1	41.5 ✓	✓
15			4.6	47.0 ✓	✓	BM. Spk Cross Cut pole #60000		8.33	43.2	

Nail in Gas Pole N. of EC 34.14 #6000

		51.59									
		43+25 ✓					44+75 ✓				
15L			11.8	39.8 ✓	✓	15R		22	37.8 ✓	✓
10			11.5	40.1 ✓		10		23	37.7 ✓	
C			10.9	40.7 ✓	✓	C		26	37.4 ✓	✓
10			10.9	40.7 ✓		10		40	36.0 ✓	
15R			10.7	40.9 ✓	✓	15L		46	35.4 ✓	✓
		43+75 ✓					45+23 EC ✓			
15R			12.0	39.6 ✓	✓	15L		46	35.4 ✓	✓
10			12.1	39.5 ✓		10		43	35.7 ✓	
C			12.4	39.2 ✓	✓	C		35	36.5 ✓	✓
10			13.2	38.4 ✓		10		32	36.8 ✓	
15L			13.6	38.0 ✓	✓	15R		37	36.3 ✓	✓
T.P.	0.33	39.96 ✓	11.96	39.63 ✓			45+75 ✓			
		44+25				15R		42	35.8 ✓	✓
15L			3.1	36.9 ✓	✓	10		39	36.1 ✓	
10			2.6	37.4 ✓		C		40	36.0 ✓	✓
C			1.8	38.2 ✓	✓	10		47	35.3 ✓	
10			1.5	38.5 ✓		15L		51	34.9 ✓	✓
15R			1.4	38.6 ✓	✓					

		39+96 ✓								✓			
		45+88 Cul							46+25				
20 L			6.0	34.0 ✓			15L			5.5	34.5 ✓	✓	
18			6.0	34.0 ✓			10			5.1	34.9 ✓		
15			5.0	35.0 ✓	✓		C			4.2	35.8 ✓	✓	
10			4.7	35.3 ✓									
C			4.1	35.9 ✓			10			4.3	35.7 ✓		
10			3.9	36.1 ✓			15R			4.6	35.4 ✓	✓	
15			4.3	35.7 ✓	✓				46+75				
20			4.2	35.6 ✓			15R			5.0	35.0 ✓	✓	
21			5.7	34.3 ✓			10			4.6	35.4 ✓		
20R			5.6	34.4 ✓			C			4.5	35.5 ✓	✓	
		46+09 87 DC. ✓					10			5.0	35.0 ✓		
15R			4.6	35.4 ✓	✓		15L			5.5	34.5 ✓	✓	
10			4.2	35.8 ✓					47+25 ✓				
C			4.2	35.8 ✓	✓		15L			6.0	34.0 ✓	✓	
10			5.1	34.9 ✓			10			5.9	34.1 ✓		
15L			5.5	34.5 ✓	✓		C			5.1	34.9 ✓	✓	
							10			4.8	35.2 ✓		
							15R			4.8	35.2 ✓	✓	

39.96 ✓

47+43 Cul-tied out in field note

30 R		6 ✓	33.6 ✓	
29 = botm pipe		6.6	33.4 ✓	
25		43	35.7 ✓	
15		49	35.1 ✓	✓
C		52	34.8 ✓	✓
1V		6.1	33.9 ✓	
13 = botm pipe		7.7	32.3 ✓	
20 L		8.0	32.0 ✓	

47+75 ✓

15L		6.7	33.3 ✓	✓
10		6.5	33.5 ✓	
C		5.7	34.3 ✓	✓
10		5.4	34.6 ✓	
15R		5.4	34.6 ✓	✓

48+25 ✓

15R		7.1	32.9 ✓	✓
10		6.6	33.4 ✓	
C		6.7	33.3 ✓	✓
10		7.2	32.8 ✓	
15L		7.3	32.7 ✓	✓
TP	0.57	3387	6.66	33.30

48+74 64 EC ✓

15L		2.0	31.9 ✓	✓
10		2.1	31.8 ✓	
C		1.6	32.3 ✓	✓
10		1.7	32.2 ✓	
15R		1.7	32.2 ✓	✓

49+25 ✓

15R		3.6	30.3 ✓	✓
10		~~2.9~~	31.0 ✓	
C		~~2.8~~	31.1 ✓	✓
10		3.3	30.6 ✓	
15 L		3.8	30.1 ✓	✓

33.87

49+75

15L			5.0	28.9	✓	15L		7.7	26.2	✓
10			4.7	29.2		10		7.6	26.3	
C			4.0	29.9	✓	C		7.1	26.8	✓
10			4.0	29.9		10		7.3	26.6	
11			4.1	29.8		13		7.8	26.1	
15			5.2	28.7	✓	14		9.5	24.4	
20 R			4.1	29.8		15		9.7	24.2	✓
		50+75	✓			16		8.1	25.8	
20 R			5.1	28.8		20 R		7.0	26.9	
15			6.1	27.8	✓			51+75	✓	
14			8.0	25.9		15R		9.0	24.9	✓
13			6.1	27.8		14		11.1	22.8	
10			5.6	28.3		13		10.7	23.2	
C			5.4	28.5	✓	10		9.0	24.9	
10			5.9	28.0		C		8.7	25.2	✓
15L			6.1	27.8	✓	10		9.3	24.6	
						15L		9.5	24.4	✓

		33.87									
		51+75					52+75				
15 L			11.0	22.9	✓	15 L		21	20.6	✓	
10			10.8	23.1		10		25	20.2		
C			10.4	23.5	✓	C		21	20.6	✓	
10			10.6	23.3		10		25	20.2		
13			12.1	21.8		15		26	20.1		
15			11.7	22.2	✓	13		30	19.7		
16			10.6	23.6		15 R	5316	22	20.5	✓	
20 R			10.3	23.6			53+25				
T.P.	0.20	22.70	11.37	22.60		15 R		41	18.6	✓	
		52+25				12		37	19.0		
20 R			0.6	22.1		10		35	19.2		
15			1.8	20.9	✓	C		33	19.4	✓	
12			0.8	21.9							
10			0.8	21.9		10		39	18.8		
C			0.6	22.1	✓	15 L		41	18.6	✓	
10			1.0	21.7		B.M. Spk Tel Pole #10 x 11		21	20.59		
15 L			1.1	21.6	✓						

		22.70											
		53+75 ✓								55+25 ✓			
15L			55	17.2 ✓	✓		15R				79	14.8 ✓	✓
10			51	17.6 ✓			10				7.6	15.1 ✓	
C			46	18.1 ✓	✓		C				7.3	15.4 ✓	✓
10			4.7	18.0 ✓			10				79	14.8 ✓	
15R			4.7	18.0 ✓	✓		15L				8.5	14.2 ✓	✓
		54+25 ✓								55+75 ✓			
15R			6.0	16.7 ✓	✓		20L				10.2	12.5 ✓	
10			56	17.1 ✓			15				9.4	13.3 ✓	✓
C			55	17.2 ✓	✓		13				8.1	14.6 ✓	
10			6.0	16.7 ✓			10				8.4	14.3 ✓	
15L			6.3	16.4 ✓	✓		C				79	14.8 ✓	✓
		52+75 ✓					10				8.2	14.5 ✓	
15L			73	15.4 ✓	✓		15R			56+25 ✓	8.4	14.3 ✓	✓
15			73	15.4 ✓			20R				9.1	13.6 ✓	
10			7.0	15.7 ✓			17				9.5	13.2 ✓	
C			6.4	16.3 ✓	✓		15				89	13.8 ✓	✓
10			6.6	16.1 ✓			15 ✓				8.4	14.3 ✓	
15R			7.5	15.2 ✓	✓		10				8.5	14.2 ✓	
							C				8.4	14.3 ✓	✓
							10				88	13.9 ✓	
							15L				9.0	13.7 ✓	✓

		2270			
		56+67 cut ✓			
20 L			11.6	11.1 ✓	
19			10.3	12.4 ✓	
15			9 ✓	13.3 ✓	✓
12			8.9	13.8 ✓	
10			9.1	13.6 ✓	
C			8.7	14.0 ✓	✓
10			8.8	13.9 ✓	
13			8.6	14.1 ✓	
15 = 6 Water Main.			9.2	(12.3) = Top of pipe 13.5 ✓	✓
20			9.5	13.2 ✓	
20			11.2	11.5 ✓	
24 R			11.0	11.7 ✓	
TP	3.44	17.37 ✓ 56+75	8.77	13.93	
15 R			3.4	14.0 ✓	✓
10			3.5	13.9 ✓	
C			3.4	14.0 ✓	✓
10			3.8	13.6 ✓	
15 L			4.0	13.4 ✓	

57+25 ✓			
15 L	4.2	13.2 ✓	✓
10	4.2	13.2 ✓	
C	3.7	13.7 ✓	✓
10	3.8	13.6 ✓	
15 R	3.5	13.9 ✓	✓
57+75 ✓			
15 R	3.9	13.5 ✓	✓
10	4.3	13.1 ✓	
C	3.9	13.5 ✓	✓
10	4.3	13.1 ✓	
12	4.5	12.9 ✓	
14	4.2	13.2	
15	3.4	14.0 ✓	
20 L		15.2	
58+25 ✓			
25 L		15.2	
20 L		15.0	
17 L		14.7	
15 L	3.1	14.3	✓
13	4.7	12.7 ✓	
10	4.8	12.6 ✓	
C	4.1	13.3 ✓	✓
10	4.6	12.8 ✓	
15 R	3.2	14.2 ✓	✓

		17.37									
		58+75 ✓									
15 R			47	12.7 ✓	✓	10 L		5.5	11.9 ✓		
10			49	12.5 ✓		15		7.5	9.9 ✓		
C			45	12.9 ✓	✓	15		8.8	8.6 ✓	✓	
10			52	12.2 ✓		20 Gotm		9.3	8.1 ✓		
15 L			50	12.4 ✓	✓	25 L		9.7	7.7 ✓		
20 L				12.9							
25 L		59+25 ✓		13.1			60+25 ✓				
20 L			80	9.4 ✓		20 L		7.5	9.9 ✓		
15			66	10.8 ✓	✓	15		6.9	10.5 ✓	✓	
10			55	11.9 ✓		10		6.4	11.0 ✓		
C			48	12.6 ✓	✓	9		5.5	11.9 ✓		
10			51	12.3 ✓		C		5.1	12.3 ✓	✓	
15 R			53	12.1 ✓	✓	10		5.2	12.2 ✓		
		59+76 Cul ✓				15 R	✓	5.4	12.0 ✓	✓	
							60+75				
30 R			83	9.1 ✓		15 R		5.6	11.8 ✓	✓	
24 Gotm			88	8.6 ✓		10		5.2	12.2 ✓		
24 Top			70	10.4 ✓		C		5.0	12.4 ✓	✓	
15.3 = ∅ ox Water Main				10.2 ✓	= Top ox pipe						
15			67	10.7 ✓	✓	7		5.6	11.8 ✓		
10			54	12.0 ✓		10		7.4	10.0 ✓		
C			50	12.4 ✓	✓	15		7.9	9.5 ✓	✓	
						20 L		7.9	9.5 ✓		

		17.37 ✓								
		61+25 ✓						62+75 ✓		
20 L			7.6	9.8 ✓		15 R		6.3	13.2 ✓	✓
15			7.3	10.1 ✓	✓	10		6.0	13.5 ✓	
10			5.5	11.9 ✓		C		5.9	13.6 ✓	✓
C			4.8	12.6 ✓	✓	10		6.6	12.9 ✓	
10			5.1	12.3 ✓		11		7.5	12.0 ✓	
15 R			5.6	11.8 ✓	✓	15		7.5	12.0 ✓	✓
TP	6.97	19.5 L ✓	4.80	12.57 ✓		20 L		7.4	17.1 ✓	
		61+75 ✓						63+25 ✓		
15 R			7.3	12.2 ✓	✓	20 15 L		5.2	14.5 14.3 ✓	✓
10			6.9	12.6 ✓		10		5.4	14.3	
C			6.7	12.8 ✓	✓	8		5.3	14.2 ✓	
10			7.3	12.2 ✓		C		5.0	14.5 ✓	✓
15			9 ✓	10.1 ✓	✓	10		5.0	14.5 ✓	
20 L			9.7	9.8 ✓		15 R		5.5	14.0 ✓	✓
		62+25 ✓								
20 L			9.3	10.2 ✓						
15			9.0	10.5 ✓	✓					
10			6.8	12.7 ✓						
C			6.4	13.1 ✓						
10			6.5	13.0 ✓						
15 R.			6.4	12.8 ✓						

19.5 ✓

63+75 ✓

15R			4.3	15.2 ✓	✓	
10			4.0	15.5 ✓		
C			4.0	15.5 ✓	✓	
10			4.4	15.1 ✓		
15L			3.4	16.1 ✓	✓	
20'L				17.1		
TIP	10.24	26.95	2.83	16.71 ✓		

64+25 ✓

20'L				17.8		
15L			9.7	17.3 ✓	✓	
10			10.8	16.2 ✓		
C			10.2	16.8 ✓	✓	
10			10.3	16.7 ✓		
15R			10.7	16.3 ✓	✓	

64+75 ✓

15R			9.2	17.8 ✓	✓	
10			8.9	18.1 ✓		
C			8.8	18.2 ✓	✓	
10			9.8	17.2 ✓		
15L			8.3	18.7 ✓	✓	
20'				19.4		

65+25 ✓

20'L				21.4		
15				20.7		
13				19.9		
12				18.6		
10			8.2	18.8 ✓		
C			7.2	19.8 ✓	✓	
10			7.3	19.7 ✓		
15R			7.5	19.5 ✓		

65+75 ✓

15R			6.1	20.9 ✓	✓	
10			5.9	21.1 ✓		
C			5.8	21.2 ✓	✓	
10				21.2		
15				21.6		
16				22.7		
20L				23.0		

66+25 ✓

20				23.9		
15L				23.5	✓	
14				23.5		
13				22.4 ✓		
10			4.8	22.2		
C			4.6	22.4 ✓	✓	
10			4.7	22.3 ✓		
15R			5.0	22.0 ✓	✓	

		26.95 ✓				25.17						
		66+75 ✓				1.50						
						23.67						
						.827						
						31.97						
15 R			4.0	23.0 ✓	✓		20					
10			3.5	23.5 ✓			15 L		69	24.9 ✓	✓	
C			3.5	23.5 ✓	✓		10		7.0	24.5 ✓		
10			4.1	22.9 ✓			C		66	25.2 ✓	✓	
1✓				23.1			10		69	24.9 ✓		
15 L				23.9	✓		15 R		7.0.	24.8 ✓	✓	
20			✓	24.7								
20		67+25		25.2			68+75 ✓					
15 L				24.9	✓		15 R		62	25.6 ✓	✓	
11				23.6								
10			3.5	23.5 ✓			10		63	25.5 ✓		
C			3.9	24.2 ✓	✓		C		62	25.6 ✓	✓	
10			2.9	24.1 ✓			10.		67.	25.1 ✓		
15 R			3.2	23.8 ✓	✓		15 L		63	25.5 ✓	✓	
T.P	7.04	31.76 ✓	2.23	24.72 ✓			69+25 ✓					
		67+75 ✓					15 L		57	26.1 ✓	✓	
15 R			7.5	24.3 ✓	✓		1✓		67	25.1 ✓		
10			7.3	24.5 ✓			10		63	25.5 ✓		
C			7.0	24.8 ✓	✓		C		57	26.1 ✓	✓	
10			7.8	24.0 ✓			10		60	25.8 ✓		
15 L			6.8	25.0 ✓	✓		15 R		59	25.9 ✓	✓	
20				25.6								

		31+76 ✓											
		69+75											
15 R			5.1	26.7 ✓	✓		15 R		4.6	27.2 ✓	✓
13			6.6	25.2 ✓			10		4.6	27.2 ✓	
10			6.5	25.3 ✓			C		4.2	27.6 ✓	✓
C			5.1	26.7 ✓	✓		10		5.0	26.8 ✓	
10			5.7	26.1 ✓			13		5.2	26.6 ✓	
13			6.0	25.8 ✓			15 L		4.5	27.3 ✓	✓
15 L			5.4	26.4 ✓	✓						
		70+25 ✓					71+75 ✓				
15 L			5.0	26.8 ✓	✓		15 L		4.1	27.7 ✓	✓
13			5.4	26.4 ✓			13		4.5	27.3 ✓	
10			5.3	26.5 ✓			10		4.3	27.5 ✓	
C			4.6	27.2 ✓	✓		C		3.6	28.2 ✓	✓
10			5.0	26.8 ✓			10		3.9	27.9 ✓	
13			5.0	26.8 ✓			15 R	77+75 ✓	4.1	27.7 ✓	✓
15 R			4.7	27.1 ✓	✓		15 R		3.6	28.2 ✓	✓
							10		3.4 ✓	28.4 ✓	
							C		3.1	28.7 ✓	✓
							10		3.8	28.0 ✓	
							13		3.9	27.9 ✓	
							15 L		3.3	28.5 ✓	✓

		31.76			
TIP	4.38	33.33	2.81	28.95	
		72+25			
15L			4.6	28.7	
13			5.2	28.1	
10			5.0	28.3	
C			4.4	28.9	
10			4.9	28.4	
15R			4.9	28.4	
		72+75			
15R			4.8	28.5	
10			4.5	28.8	
C			4.1	29.2	
10			4.6	28.7	
13			5.0	28.3	
15L			4.2	29.1	

	73+25			
15L		4.3	29.0	
13		5.2	28.1	
10		5.0	28.3	
C		4.4	28.9	
10		4.5	28.5	
15R		4.9	28.4	
	73+75			
15R		5.5	27.8	
10		5.2	28.1	
C		4.8	28.5	
10		5.5	27.8	
15L		5.6	27.7	
	74+25			
15L		6.2	27.1	
10		6.4	26.9	
C		5.6	27.7	
10		5.9	27.4	
15R		6.1	27.2	

33+33

74+75

15 R	6.5	26.8	✓
10	6.1	27.2	
C	6.0	27.3	✓
10	6.7	26.6	
15 L	7.1	26.2	✓

74+93 Cul

20 L	14.3	19.0	
11	12.8	20.5	
	B.F. = Top Water main 24.5		
10	6.8	26.5	
C	6.0	27.3	
10	6.1	27.2	
14	6.6	26.7	
14.4 = ℄ New Water Main		25.9 = Top of pipe	
15	7.5	25.8	
20 R	7.5	25.8	

75+05

C	5.9	27.4	✓
10	6.9	26.4	
15 L	7.7	25.6	

75+25

15 L	7.0	26.3	✓
10	6.8	26.5	
C	5.9	27.4	✓
10	6.0	27.3	
15 R	6.3	27.0	✓

75+75

15 R	5.9	27.4	✓
10	6.6	27.7	
C	5.4	27.9	✓
10	6.2	27.1	
15 L	6.4	26.9	✓

76+25

15 L	5.5	27.8	✓
10	5.2	28.1	
C	4.4	28.9	✓
10	4.6	28.7	
13	4.8	28.5	
15	5.3	28.0	✓

		33.33									
		76+75 ✓					77+75 ✓				
15R			3.0	30.3 ✓	✓		15R		10.4 ✓	33.4 ✓	✓
13			3.7	29.6 ✓			13		11.8	32.0 ✓	
10			3.0	30.3 ✓			10		11.0	32.8 ✓	
C			2.9	30.4 ✓	✓		C		10.6	33.2 ✓	✓
10			3.5	29.8 ✓			10		11.1	32.7 ✓	
15L			3.9	29.4 ✓	✓		15L		11.5	32.3 ✓	✓
		77+25 ✓					78+25 ✓				
15L			2.6	30.7 ✓	✓		15L		9.6	34.2 ✓	✓
10			2.3	31.0 ✓			10		9.0	34.5 ✓	
C			1.6	31.7 ✓	✓		C		8.7	35.1 ✓	✓
10			1.8	31.5 ✓			10		9.3	34.5 ✓	
15R			2.1	31.2 ✓	✓		15		9.8	34.0 ✓	
TP	11.03	43.85 ✓	0.51	32.82 ✓			15R	✓	9.4	34.4 ✓	✓
BM Spk tel pole #10-47			8.86	34.99			78+75 ✓ 15R		6.4	37.4 ✓	✓
							13		7.4	36.4 ✓	
							10		7.1	36.7 ✓	
							C		6.6	37.2 ✓	✓
							10		7.1	36.7 ✓	
							15L		7.6	36.2 ✓	✓

		4385 ✓										
		79+75										
10L			5.8	38.0	✓		T.P	6.69	50.21	0.33	43.52	
10			5.4	38.4					80+75 ✓			
C			4.7	39.1	✓		15R			5.3	44.9	✓
							13			5.4	44.8	
9			5.1	38.7			10			7.1	43.1	
10			5.8	38.0			C			6.7	43.5	✓
10			4.2	39.6			10			7.2	43.0	
15R			4.2	39.6	✓		15L			7.7	42.5	✓
		79+75 ✓							81+75 ✓			
15R			3.6	41.2	✓		15L			6.8	43.4	✓
12			4.0	39.8			10			6.5	43.7	
10			3.6	40.2			C			6.2	44.0	✓
C			2.9	40.9	✓		10			6.5	43.7	
10			3.4	40.4			13			6.8	43.4	
15L			4.1	39.7			15R			5.4	44.8	✓
		80+75							81+75			
15L			2.5	41.3	✓		15R			5.0	45.2	✓
10			1.9	41.9			12			6.4	43.8	
C			1.3	42.5	✓		10			6.5	43.7	
10			1.8	42.0			C			5.8	44.4	✓
12			2.2	41.6								
15R			0.6	43.2	✓		10			6.1	43.8	
							15L			6.4	43.8	✓

		50.21 ✓											
		82+25 ✓							83+25 ✓				
20				45.2 ✓									
15 L			5.4	44.8	✓		20 L			2.1	47.7 ✓		
10			6.6	43.6 ✓			15			2.0	47.8 ✓	✓	
C			6.1	44.1 ✓	✓		12			2.0	47.8 ✓		
10			6.5	43.7 ✓			12			6.8	43.0 ✓		
15 R			3.9	46.3 ✓	✓		10			6.9	42.9 ✓		
		82+75 ✓					C			6.4 ✓	43.4 ✓	✓	
20 R			3.0	47.2 ✓			10			6.8	43.0 ✓		
15			3.4	46.8 ✓	✓		11			6.7	43.1 ✓		
13			3.7	46.5 ✓			15			3.9	45.9 ✓	✓	
10			6.8	43.4 ✓			20 R			3.2	46.6 ✓		
C			6.4	43.8 ✓	✓		20 R		83+75	4.0	45.8 ✓		
10			6.9	43.3 ✓			15			4.4	45.4 ✓	✓	
12			6.3	43.9 ✓			13			7.6	42.2 ✓		
15			3.4	46.8 ✓	✓		10			7.6	42.2 ✓		
20 L			3.7	46.5 ✓			C			7.0	42.8 ✓	✓	
B.M. Spk Gas Co Pole #60015			4.01	46.20 ✓			10			7.6	42.2 ✓		
T.P.	3.58	49.78					12			7.2	42.6 ✓		
							15			1.4	48.4 ✓	✓	
							20 L			1.7	48.1 ✓		

49.78

84+05

20 L.		20	47.8	
16		19	47.9	
15		3	46.4	✓
12	1685 m 49.15	79	41.9	
10		80	41.8	
C		7.5	42.3	✓
10		79	41.9	
15 R		77	42.1	✓

84+25

15 R		8.2	41.6	✓
10		8.1	41.7	
C		77	42.1	✓
10		8.3	41.5	
15		8	41.4	✓
20			39.0	
30 L.			38.3	

25 L		132	36.6	
19		126	37.2	
15		107	39.1	✓
13		9	40.4	
10		9.0	40.8	
C		8.2	41.6	✓
10		9.0	40.8	
15		10.6	39.2	✓
25 R		11.0	38.8	

85+25

20 R		10.8	39.0	
15		10.9	38.9	✓
10		9.7	40.1	
9		9.3	40.5	
C		8.8	41.0	✓
10		9.5	40.3	
15		11.5	38.3	✓
19		12.7	37.1	
25 L		13.3	36.5	

49.78

T.P	7.13	48.20	8.71	41.07		30		86+25			
		86+75 ✓				25 L			14.✓	33.8	
25 L			10.6	37.6		15			13.7	34.5	
15			8.9	39.3	✓	10			16.8	31.4	
10			7.9	40.3		9			10.6	37.9	✓
C			7.1	41.1	✓	C			7.6	40.6	
10			7.6	40.6		10			7.1	41.1	
13			9.2	39.0		12			6.6	41.6	✓
15			9.3	38.9	✓	15 R			6.8	41.4	
25 R			8.9	39.3		20 R			7.0	41.2	
		86+12 Cut				15			7.7	40.5	✓
33.2 Bottom cut. Top			24.9	23.3		11		86+75 ✓			
15 R			18.6	29.6					9.0	39.2	
			7.9	40.3	✓				7.7	40.5	✓
10			7.0	41.2		10			6.9	41.3	
C			6.8	41.4	✓	C			6.1	42.1	
9			7.3	40.9		8			5.2	42.6	✓
10			7.6	40.6		10			6.2	42.0	
15			10.7	37.5	✓	15			7.4	40.8	
25			18.2	30.0		25 L			9.6	38.6	✓
32 L Top Cut			21.0	27.2					11.2	37.0	
130 bm "			27.1	21.1							

48.20

87+75

20 L			8.7	39.5		20 L		3.1	45.1
15			8.1	40.1	✓	15		3.1	45.1 ✓
10			5.4	42.8		10		2.4	45.8
C			4.3	43.9	✓	9		2.3	46.2
10			4.7	43.5		C		1.9	46.3 ✓
15			6.1	42.1	✓	10		2.5	45.7
30 R			6.8	41.4		15 R		2.9	45.3 ✓
	87+75						88+41 =	End paving	
30 R			4.3	43.9		15 R		2.6	45.6
15			3.7	44.5	✓	10		2.2	46.0
10			3.5	44.7		8.2 on paving		2.13	46.1
C			3.2	45.0	✓	C " "		1.69	46.50
10			3.8	44.4		8.2 " "		1.23	47.0
13			4.4	43.8		10		1.3	46.9
15			5.8	42.7	✓	13		1.7	46.5
20 L			6.5	41.7		15		1.15	49.7
						Brg S.pk 1st pole 10+54		1.37	46.88

LOCATION OF TRACKS

All distances are to outside edge of Rails

9/5/17 Greasey Miller

8th St

9th St

M St

N St

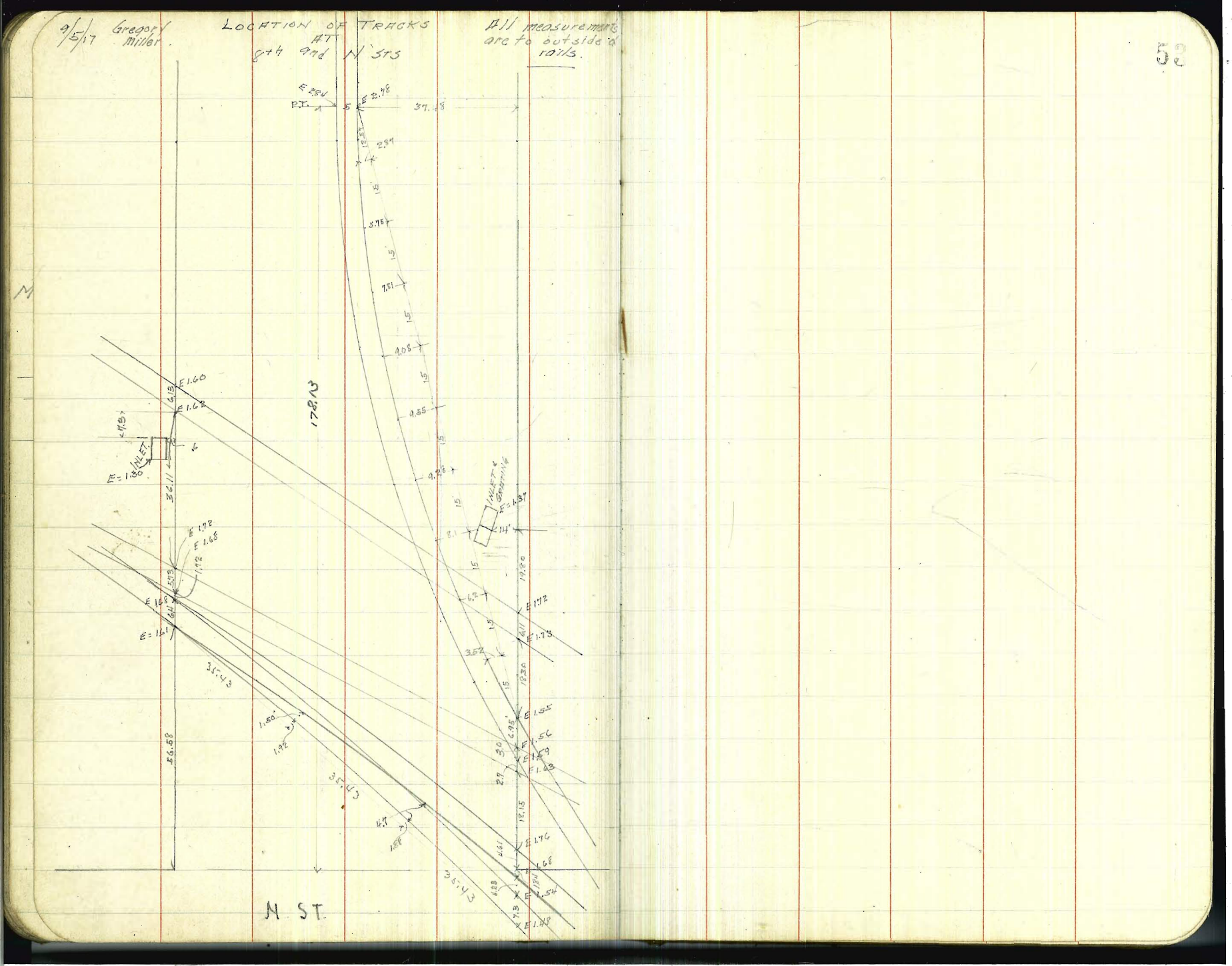
East Line of 8th St

N

9/5/17 Gregory Miller.

LOCATION OF TRACKS AT 6th and N ST.S

All measurements are to outside of rails.



52

2/28/18 Gregory Moore Miller

CROSS SECTION OF DETROIT ST 40' wide 10' curbs 5' 1/4's.

NOTE Walk & curb laid for 33 No. of Akin on East } from NL of County Highway to NL of Back Alley
" 47 " " " West
curb is 7' from P.L. returns at NW & NE of Akin 7' radius.

B.M. 11.96 175.83 : 163.87

Spike on pole across Highway from Detroit

R. of W. from Highway to Akin not acquired.

Center Line of County Highway

W		3.6
E		2.1

No. Line of Co. Highway

W		2.3
cb		2.6
1/4		2.4
C		2.4
1/4		2.5
cb		2.3
E		2.1

46.04 No. = So 2' Line of Railway

E		4.4
cb		4.6
1/4		4.5
C		4.3
1/4		4.2
cb		4.2
W		4.6

07 So. rail of Ry.

W		4.27
E		3.71

on No. rail of Ry

E		4.00
W		4.46

2' No. of No. rail = 60

W	4.6
cb	4.6
1/4	4.5
C	4.6
1/4	4.5
cb	4.5
E	4.4

20' No. of 00 taken parallel to Track

E	5.6
cb	5.6
1/4	5.5
C	5.4
1/4	5.6
cb	5.7
W	6.5

46.04 No. of 00 = SL Akin St. 40' wide 10' curbs

W	7.4
cb	6.6
1/4	6.4
C	6.1
1/4	6.0
cb	6.2
E	6.1

So Curb taken parallel to SL.

E	6.2
cb	6.2
1/4	6.3
C	6.3
1/4	6.7
cb	6.8
W	7.4

So Quarter taken parallel to SL.

W	7.3
cb	6.9
1/4	6.7
C	6.3
1/4	6.3
cb	6.3
E	6.0

Center Akin taken parallel to S.L.

E	6.1			
cb	6.3			
1/4	6.2			
C	6.47	169.36	on hub	
1/4	6.7			
cb	6.9			
W	7.2			

No. Quarter taken parallel to S.L.

W	7.3			
cb	6.9			
1/4	6.5			
C	6.4			
1/4	6.3			
cb	6.3			
E	6.3			

No. Curb taken parallel to S.L.

E	6.4			
cb	6.4			
1/4	6.3			
C	6.4			
1/4	6.5			
cb	6.9			
W	7.4			

No. Line Akin St.

W	6.9			
+7	6.95		on curb	
cb	7.1			
1/4	7.7			
C	6.6			
1/4	6.4			
cb	6.5			
+3	6.07		on curb	
E	5.9			

538' No of N.L. Akin on W } = SEC T. A.
00 " " " " E }

E	5.9			
cb	6.5			
1/4	6.6			
C	6.6			
1/4	6.7			
cb	7.0			
+3	6.96			on cement
W	6.9			

40' No. of "A"

W	6.3			
+7	6.56			
cb	6.6			
1/4	6.6			
C	6.5			
1/4	6.4			
cb	6.4			
E	7.2			
+5	9.3			

on No. End of Curb on E. S. Lo

E+7 = curb cement.	6.18			on cement

49' No. of A

-5	8.9			
E	8.5			
cb	6.7			
1/4	6.3			
C	6.3			
1/4	6.4			
cb	6.6			
+3	6.52			on cement
W	6.3			

55' No.

W	8.2			
+8	9.9			
cb	6.9			
1/4	6.2			
C	6.2			
1/4	6.1			
+2	6.0			
T.P.	9.56	178.99	6.40	169.43
cb	10.1			
E	12.1			

71' No

-5	12.5			
E	12.0			

17849

DETROIT

N.B. Bridge is not set true to square with St. but measurements are close

+6			12.0				
cl			10.1		98' No. = So. bulk head of Bridge		
+2			9.0	-10		14.5	
1/4			8.9	W		14.6	
C			9.0	+4		14.0	
1/4			9.0	cl		11.7	
+2			9.0	+2.8 = SW. cor of bridge		8.79	= Floor of brdg.
cl			10.5	1/4		8.8	
+5			13.3	C		8.8	
W			13.8	1/4		8.7	
+10			15.0	+3.8 = SE. cor of bridge		8.73	= Floor of brdg.
	94' No			cl		10.9	
				+3		12.2	
-10			15.4	E		12.3	
W			14.4	+10		11.4	
+4			13.9	146' No. = No. bulk head of Bridge			
cl			11.0	-10		12.4	
+3			9.0	E		12.8	
1/4			9.0	+3		12.7	
C			8.8	cl		9.0	
1/4			7.8	+1.6 = NE. cor of Brdg		6.69	= Floor of Bridge
+3			8.8	1/4		6.7	
cl			9.8	C		6.7	
+5			12.1	1/4		6.7	
E			12.4	+2.6 = NW. cor. brdg		6.74	= Floor of Bridge
+10			13.4	cl		9.7	
	80' No.			+6		12.6	
-10			13.7	W		13.0	
E			12.1	+10		13.7	
+5			11.8	169' No.			
cl			9.2	-10		11.3	
+2			8.6	W		11.9	
1/4			8.7	+4		11.7	
C			8.7	cl		8.1	
1/4			8.8	+3		5.8	
+2			9.0	1/4		5.8	
cl			10.7	C		5.7	
+7			14.0	1/4		5.7	
W			14.3	cl		8.0	
+10			15.3	+5		11.2	

		178.99								
E			12.7							
+4			14.0							
+10			13.8							
		173' No.								
-10			14.1							
E			12.1							
+5			10.8							
cl			7.9							
1/4			5.6							
C			5.6							
1/4			5.6							
+2			5.6							
cl			7.1							
+2			8.8							
W			9.3							
+10			10.0							
		177' No.								
-10			9.4							
W			8.9							
+7			8.8							
cl			6.3							
+2			5.6							
1/4			5.6							
C			5.6							
1/4			5.6							
cl			7.3							
+3			9.2							
E			9.1							
+10			14.0							
		200 No.								
-10			8.5							
E			8.5							
+8			8.2							
cl			7.4							
1/4			4.0							
C			3.7							
1/4			3.8							
+3			3.9							
cl			4.6							
W			7.2							
+10			8.1							
						210' No.				
W							4.7			
+7							3.1			
cl							3.1			
1/4							2.9			
C							2.9			
1/4							3.1			
cl							6.5			
+3							7.9			
E							8.2			
+10							8.2			
						225' No.				
-10							6.9			
E							5.9			
cl							3.5			
1/4							1.3			
C							1.4			
1/4							1.5			
cl							1.6			
T.P.			11.58		189.53		1.04		177.95	
W							9.4			
						240' No.				
W							2.5			
+6							10.0			
cl							10.4			
1/4							10.4			
C							10.4			
1/4							10.4			
cl							10.0			
E							12.6			
+4							14.6			
+10							15.3			
						350' No.				
-10							14.7			
E							10.0			
+3							8.7			
cl							9.0			
1/4							9.3			

		1895							
			9.4			350' No.			
C			9.6		-10		9.1		
1/4			9.9		E		5.3		
cl.			8.7		cl.		0.9		
+6			3.8		1/4		0.8		
W		275' No.			C		1.5		
			4.0		1/4		1.6		
W			7.2		cl.		1.8		
+3			7.1		+9		2.0		
cl.			6.9		W		1.7		
1/4			6.7		T.P.	1206	199.72	1.87	187.66
C			6.1				378' No.		
1/4			7.6		W		10.9		
cl.			10.3		+5		11.3		
E			13.9		cl.		11.0		
+10		300' No.			1/4		10.9		
-10			14.3		C		10.8		
E			10.3		1/4		10.5		
cl.			7.8		cl.		10.2		
1/4			6.2		E		10.4		
+3			4.8			400' No.			
C			4.6		E		9.5		
1/4			4.6		cl.		9.5		
cl.			4.4		1/4		9.8		
+8			4.3		C		10.1		
W			3.5		1/4		10.3		
		325' No.			cl.		10.6		
W			2.2		W		10.6		
+1			2.9			450' No.			
cl.			2.7		W		9.3		
1/4			2.7		cl.		9.3		
C			2.7		1/4		9.4		
+12			2.5		C		9.4		
1/4			3.4				9.3		
cl.			5.6				9.3		
E			9.9		E		9.2		
+10			12.7			500' No.			
					E		8.4		
							8.3		

		199.72										
			8.3								6.8	
C			8.4								7.1	
			8.4						C		7.0	
			8.4								7.0	
W			8.2								7.2	
		516.86' No. = SL Southern Dr. 40' wide				10' curbs		E			6.5	
W			6.86			on hub			No. Curb			
			7.4					E			6.3	
			7.9								7.0	
C			7.9								6.7	
			7.9					C			6.8	
			8.0								6.9	
E			8.05	191.67		on hub					6.5	
		50. Curb						W			6.1	
E			7.2						No. Line Southern Drive			
			7.7					W			5.6	
			7.6								6.0	
C			7.6								6.2	
			7.6					C			6.1	
			7.3					1/4			6.1	
W			6.5					ct			6.4	
		50. Quarter						+5			6.1	
W			6.8					E			5.6	
			7.2						50' No.			
			7.5					E			1.5	
C			7.4								2.2	
			7.4								2.1	
			7.5					C			2.6	
E			6.9								2.0	
		Center									1.7	
E			6.6					W			1.9	
			7.3									
			7.2					T.P.	12.12	$11.02	0.82	198.90
C			7.2						75' No.			
			7.3					W			9.6	
			7.0								9.8	
W			6.7								10.6	
		No. Quarter						C			10.9	
W			6.4								10.9	
											11.2	

		21102						
E			10.9				13.1	
		100' No.					13.1	
E			7.6			W	13.4	
+3			8.7			225' No.		
cb			9.0			W	11.6	
			8.6				11.4	
C			8.5				11.4	
			8.9			C	11.0	
			8.3				10.5	
W			7.9				10.2	
		115' No.				E	9.9	
W			7.6			250' No.		
			7.1			E	8.1	
			7.4				9.2	
			7.1				9.5	
C			7.0			C	9.6	
			7.1				9.7	
E			6.2				9.2	
		138' No.				W	9.2	
E			4.6			300' No.		
			5.2			W	6.3	
			5.0				5.6	
C			4.8				5.6	
			4.9			C	5.1	
			4.0				5.3	
W			4.1				5.5	
		175' No.				E	4.9	
W			3.6			310' No.		
			2.8			E	4.0	
			2.9				4.3	
C			2.1				4.6	
			2.0			C	4.4	
			1.9				4.7	
E			1.6				4.6	
T.P.	12.79	22316	0.63	210.39		W	4.9	
		200' No.				350' No.	TREES	Planted 8' from Prop Line from Sta 350 to 550 on East side.
E			12.4			W	3.0	
			12.5				2.6	
			12.8				3.0	
C			12.8			C	2.8	

		223.18			
			2.8		
			2.5		
E			2.2		
		385' No.			
E			0.0		
			0.0		
			0.2		
C			0.5		
			0.8		
			0.9		
W			1.1		
T.R.	13.05	235.86	0.37	222.81	
		425' No.			
W			11.9		
			11.4		
			11.2		
C			11.5		
			11.5		
			11.4		
E			10.7		
		450' No.			
E			9.3		
			9.8		
			10.0		
C			9.8		
			9.9		
			9.2		
W			9.1		
		475' No.			
W			9.0		
			8.7		
			8.8		
C			8.6		
			8.4		
			8.3		
E			8.1		
		500' No.			
E			7.1		
			7.3		
			7.5		
C			7.6		
			7.8		
			7.7		
W			8.7		
		550' No.			
W			6.5		
			6.1		
			5.9		
C			5.6		
			5.5		
			5.5		
E			5.3		
		575' No.			
E			3.7		
			4.6		
			4.8		
C			5.1		
			5.3		
			5.4		
W			5.7		
		600' No.			
W			4.3		
			4.4		
			4.4		
C			4.2		
			4.0		
			3.8		
E			3.3		
		625' No.			
E			2.5		
			2.9		
			2.9		
C			2.9		
			3.0		
			2.9		
W			2.3		
		653' No. = 51. of Brooklyn Ave on East Sect B			
W			1.4		
			1.6		
			1.5		

		23586			
C			1.3		
			1.5		
			1.7		
E			1.6		
		} on W on E =	SECT. C	or SL Brooklyn	
E			1.6		
			1.6		
			1.4		
C			1.1		
			1.3		
			1.0		
W			1.0		
T.P.	13.10	23807	0.89	23497	marking gate SH. Brooklyn
	10' No of last on E 10' - - - on W = So. Curb				
W			12.5		
			13.2		
			13.0		
C			12.8		
			13.2		
			13.4		
E			13.9		
	10' No of last on E 5' - - - W = So Quarter				
E			13.4		

	13.0
	12.8
C	12.5
	12.7
	12.6
W	12.2
10' No. of last on E 5' - - - - W = Center	
W	11.6
	12.5
	12.5
C	12.1
	12.4
	12.3
E	12.7
10' No of Qtr on E 5' - - - - W = No. Quarter	
E	12.4
	11.9
	11.8
C	11.7
	12.1

24807

		12.2			10.7
W		11.4			10.8
	10' No. of last on E 5' " " W } = No Curb		c		10.6
W		11.2			11.2
		11.9			11.3
		11.6	E		12.3
c		11.3		40' No. of "E"	
		11.6	E		9.6
		11.7			8.8
E		12.5			8.3
	10' No. of last on E 10' " " W } = SECT D = N.L. Brooklyn		c		7.7
E		12.3			7.8
		11.4			7.7
		11.2	W		6.1
c		10.7		90' No.	
		11.1	W		0.8
		11.3	..7		1.9 3.1
W		10.4	ob		3.3
	10' No. of "D" on W 00 " " E } = SECT E				3.1
W		9.5	C		2.9

		248.07									
			3.6							5.4	
			4.5			E				7.0	
E			6.0					240' No.			
T.P.	13.06	260.85	0.28	247.79		E				2.6	
		140' No.								1.7	
E			12.9							1.5	
			11.1			C				1.2	
			10.1							1.0	
C			9.9			cb				0.8	
1/4			10.0			T.P.	1266	27350	0.01		260.84
cb			9.8			+2				12.1	
+2			9.4			W				11.5	
W			6.9					290' No.			
		190' No.				W				8.6	
W			3.0			+6				9.0	
+9			4.0			cb				10.1	
cb.			5.0							10.1	
1/4			5.2			C				10.0	
C			5.1							10.4	
			5.3							10.7	

		273.50							
E			11.8				3.8		
		315' No				C	3.5		
E			10.0				3.3		
			9.3				3.2		
			9.1			W	1.8		
C			8.7			415' No.			
			8.9			W	0.0		= other dirt drive to house
			9.0				1.1		
W.			7.8				1.5		
		340' No.				C	1.8		
W			5.6				1.7		
			7.0				2.0		
			7.1			E	2.5		
C			7.2			440' No			
			7.6			E	1.0		
			7.6				0 ∞		
E			8.3			T.P. 131E	286 68	0 0	273.50
		390' No.						13.2	
E			4.3			C		12.8	
			3.7					12.7	

		28668							
ch			12.9			590 N/o			
+1			12.8	W			2.4		
			12.0				3.3		
W			11.2				+1		
		490 N/o		C			4.2		
W			7.9				4.6		
			8.9				4.5		
			9.6	E			5.C		
C			9.5			640 N/o			
			9.6	E			2.6		
			10.1				1.5		
E			10.4				1.4		
		540 N/o		C			1.2		
E			7.7				0.8		
			7.0	T.P	5.64	29191	041	28677	
			6.9				54		
C			6.7	W			4.2		
			6.9			690 N/o			
			6.0	W			1.8		
W			5.3				2.7		

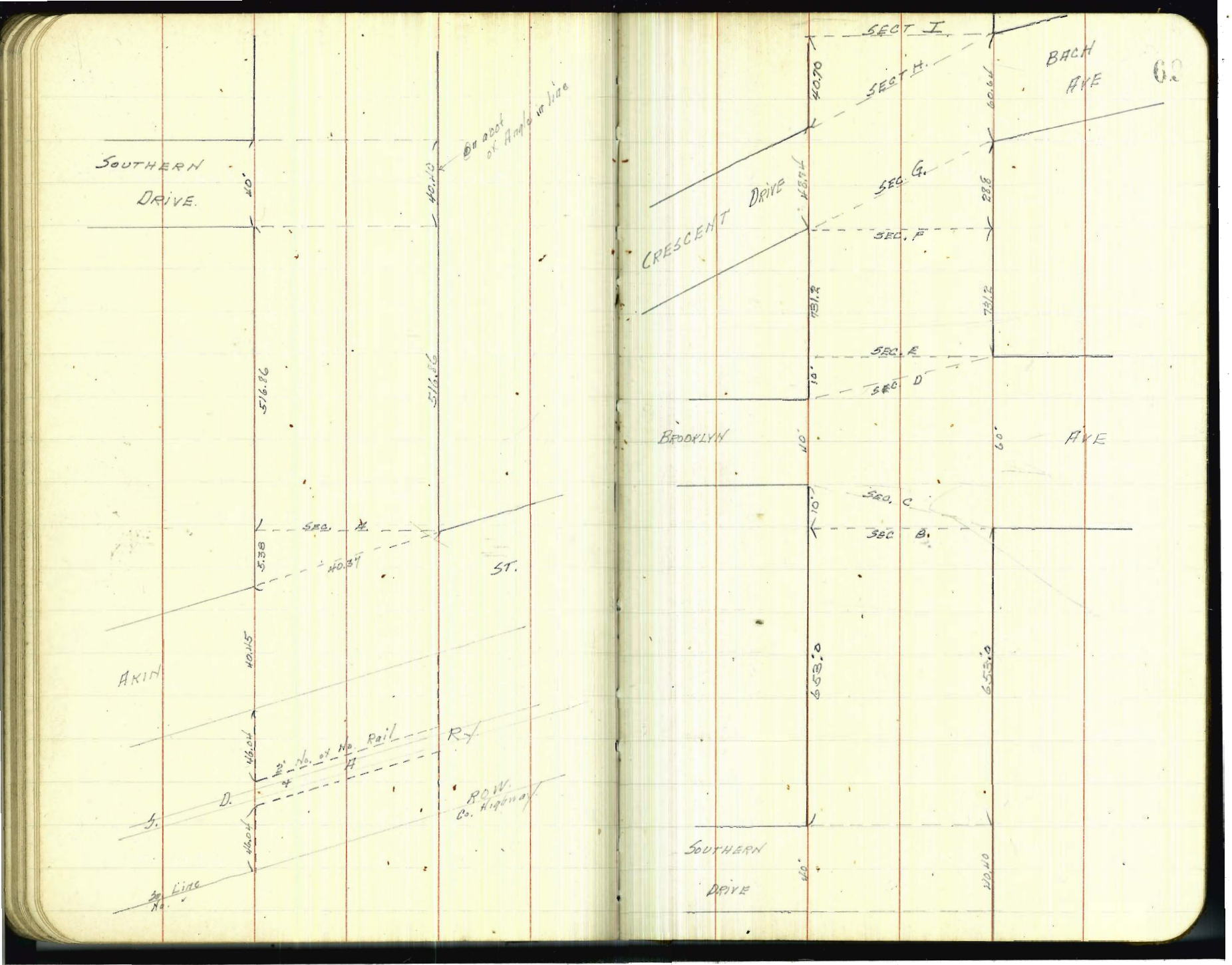
2914A

+		33			50	
1/4		32		E	61	
C		35			10.1 No. 0 X Sect. G on E 12.15 " " " " W = So Cor-b	
		37		E	71	
		37			68	
E		48			65	
	731.2 No. = Sect. F			C	61	
E		39			55	
		34			49	
		37		W	48	
C		33			10.1 No. 0 X So Corb on E 6.09 " " " W = So Quarter	
		34		W	57	
		31			61	
W		32			66	
	28.8 No. 0 X F on E 0.0 " " " W = 5L. 0 X { Each Arc = Sect G Crescent Drive			C	70	
W		32			71	
		35			72	
		38		E	77	
C		43			10.1 No. 0 X So. Quarter on E 6.09 " " " " W = Center	
		51		E	83	

291.41

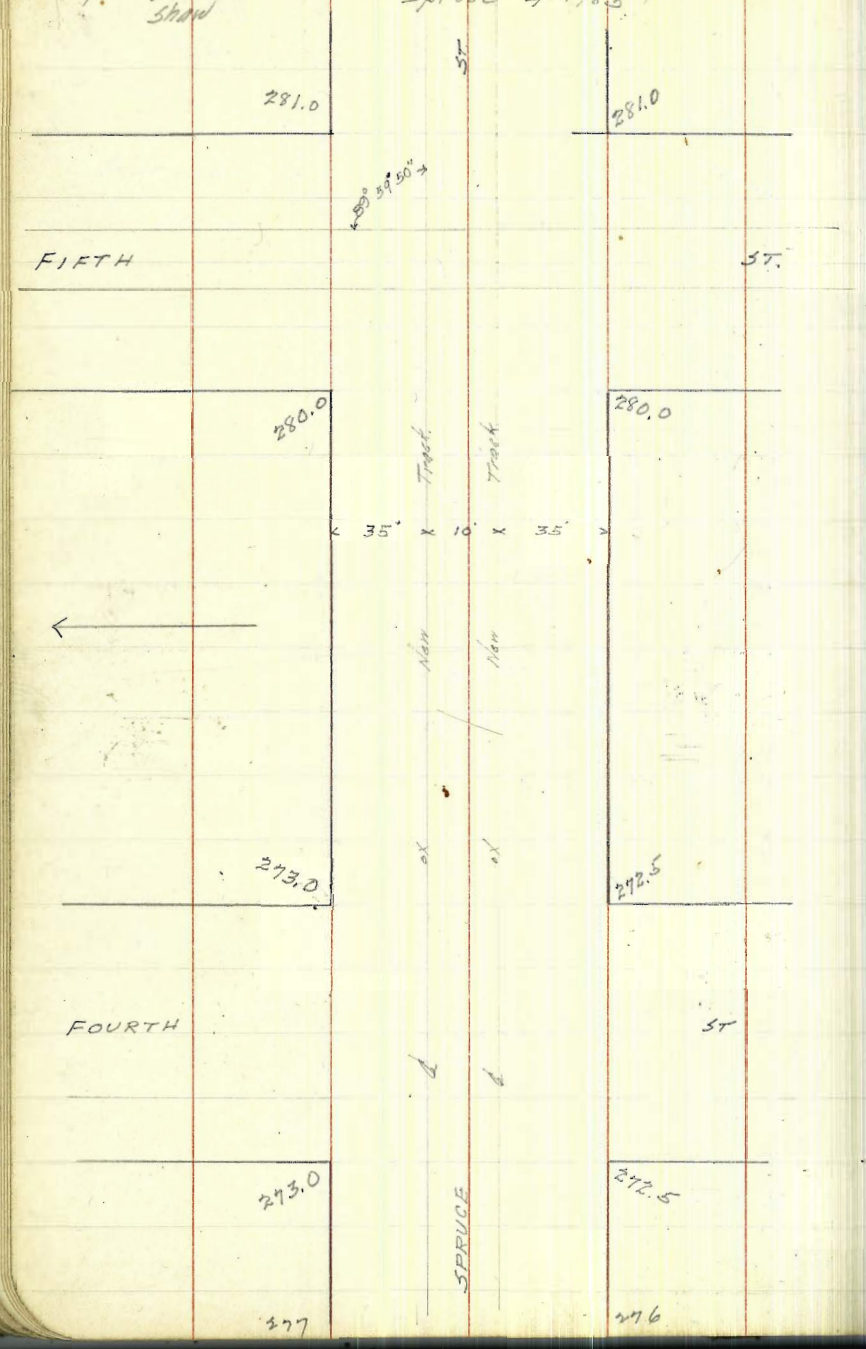
		7.8	
		7.6	
C		7.8	
		7.6	
		7.3	
W		6.3	
	10.1 No. of Center on E		
	6.09 - - - - - W = No. Quarter.		
W		7.3	
		7.9	
		8.3	
C		8.4	
		8.4	
		8.6	
E		9.3	
	10.1 No. of No. ¼ on E		
	6.09 - - - - - W = No. Curb		
E		10.3	
		10.0	
		9.6	
C		9.3	
		8.8	

		8.7	
W		7.9	
	10.1 No. of No. Curb on E		
	12.18 - - - - - W = No. Line = SECT H.		
W		9.1	
		9.8	
		10.1	
C		10.4	
		10.7	
		10.8	
E		10.2	
	00 No. of SECTH on E		
	10.7 - - - - - W = SECT. I.		
E		10.2	
		11.0	
		11.9	
C		12.6	
		13.1	
		13.2	
W		13.3	
B.M.		8.01	289.90 mils in pole SW. Back


SOUTHERN
DRIVE.
40'
40.10
On about or Angle in line
516.86
516.86
SEC. A
5.38
40.34
ST.
AKIN
40.15
40.04
2' No. or No. Rail
R.Y.
ROW
Co. Highway
4.
D.
40.04
Sq. Line
No.
SECT I
SECT H.
40.70
40.64
BACH
AVE
SEC. G.
45.74
CRESCENT
DRIVE
28.6
SEC. F
73.12
73.12
SEC. E
10'
SEC D
BROOKLYN
40'
60'
AVE
SEC. C
10'
SEC B.
653.0
653.0
SOUTHERN
DRIVE
40'
40.40

12/16/19 Gregory Miller Shaw

Location of New Track Spruce 4th to 5th



Levels for New Track. Spruce 5T 4th to Fifth

70

0+00 = 50' West of 4th

N. Track	273.77
S " "	273.60
West Line of 4th	
N. Track	272.82
S " "	272.68
East Line of 4th	
N. Track	272.75
S " "	272.65
50' E of 4th	
N Trk	274.55
S "	274.47
100' E of 4th	
N Trk	276.35
S "	276.29
150' E of 4th	
N Trk	278.15
S " "	278.11

Notes for culverts
Roosevelt Memorial

Sta 16+10	37.31						10+61	6.5	98.1	
					0+02.0					
30' E of ℄		0.0	37.31							
15.5' " "	= Water Main	2.1	35.2	Top of pipe	0+04.7	= Center Water pipe		8.8	95.8	Top of Main
10' " "		0.8	36.5							
					0+20			7.2	97.4	
℄		1.3	36.0							
					0+36			8.1	96.5	
10' W of ℄		2.1	35.2							
					0+40			10.2	94.4	
30' " "		3.3	34.0							
					0+40.1			18.3	86.3	
Sta 10+27.4 ✓										
					0+53.0			20.0	84.6	
	3.85	104.61		Hub NE						
			100.76	cor P.I.	0+60			20.4	84.2	
Catch Basin is in good shape. See book 1010-21 for location of							Sta 24+75 ✓			
00 = N. edge C.B.		7.95	96.66	= Flow Line		on B.M.	2.10	95.90	93.80	
00 =		6.40	98.21	Top C.B.	0+00 = 35' to Right of ℄ of Survey			4.8	91.1	
+ 02.0		5.1	99.5		0+05.0			5.4	90.5	
+ 07.5 = water pipe			(99.6)							
+ 20		5.8	98.8		0+10			5.0	90.9	
+ 40		6.6	98.1		0+18.8 = water pipe N.E.			7.8	88.1	Top of pipe.
+ 50		8.7	95.9		0+25			5.4	90.5	
+ 50.1 = end of present pipe		10.0	94.6		0+35			5.1	90.8	
Sta 18+99.4 ✓										
					0+45			5.6	90.3	
	104.61									
					0+51			8.6	87.3	
0+00 = N. E. edge 24" CB		8.8	95.8	= Flow Line	0+70			10.3	85.6	
1+00 (22.3 from Road) at CB		6.8	97.8	= Top CB						
C.B. in good shape										

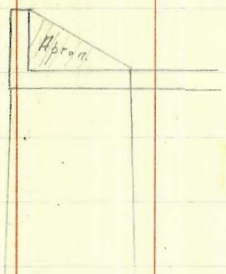
		Sta 28+06 ✓			
	2.10	95.90		93.80	BM. pole 2620
T.P.	5.00	91.27	9.63	86.27	
0+00 = 25' Rt of ℄			0.5	90.8	
+03.0			1.7	89.6	
+07.0			5.2	86.1	
+12.7 = Water Main			8.1	83.2	
+25			5.6	85.7	
+35			5.4	85.9	
+50			6.2	85.1	
+60			13.5	77.8	
+70			14.7	76.6	
		Sta 34+25 instead of 34+18			
	0.24	81.79		81.55	
	3.40	74.20	10.99	70.80	
0+00 = 30' R. of ℄			2.8	71.4	
+05			3.7	70.5	
+13.9 = ℄ of Water Main Buried			5.9	68.3	
+22			3.7	70.5	
+40			4.3	69.9	
+45			7.4.2		
+65					
		Sta 37+21 ✓			
	2.17	63.60			
0+00 = 30' Rt. of ℄					
0+10					
0+15.6 = Water Main					
0+17					
0+22					
0+30					
0+41					
0+50					
0+60					
pipe 15 E of ℄ Top = 12.3		Sta 56+67			see page 37 this book.
" 15.3 " " " 10.2		Sta 59+76			see page 38 this book.
pipe 14.4 E of ℄ Top = 25.9		74+93			" " 44 " "
		Sta 59+73.			
Elev Top of 4" B.O. pipe					Elev = 8.0
" " " Wheel					" = 9.2

3/8 10.2 / 13.7

M 12

7.0	67.2	
7.9	66.3	
12.77	61.43	
6.4	57.2	
5.7	57.9	
7.2	56.4	Top of Pipe
5.8	57.8	
4.6	59.0	
4.5	59.1	
4.8	58.8	
9.2	54.4	
10.4	53.2	

1/5/22 Gregory Section at W. end of Culvert
Sta 86+12 Roosevelt Memorial
at West End of Box
36.60 = H.D.



22' S. of ℄ of Culv.			1.0	35.6					
20 " " " "			3.6	33.2					
13 " " " "			7.3	29.3					
2' " " " "			9.4	27.2	Top of Culv.				
2 " " " "			15.4	21.2	bot " "				
11.5 N " " "	(wall 5' high)		15.6	21.0	" " wall				
12 " " " "			15.6	21.0					
14 " " " "			4.5	32.1					
TP.	5.75	31.77	10.58	26.02					
	5' W. of W. end of Culv.								
14' N. of ℄ of Culv.			0.5	31.3					
13 " " " "			10.5	21.3					
7 " " " "			12.4	19.4					
5 " " " "			15.4	16.4					
2' 5 " " "			15.4	16.4	4 ends of wall				
2' " " " "			5.4	26.4	= Top " "				
5 " " " "			2.2	29.6					
10 " " " "			1.2	30.6					

12' W. of W. end of Culv.

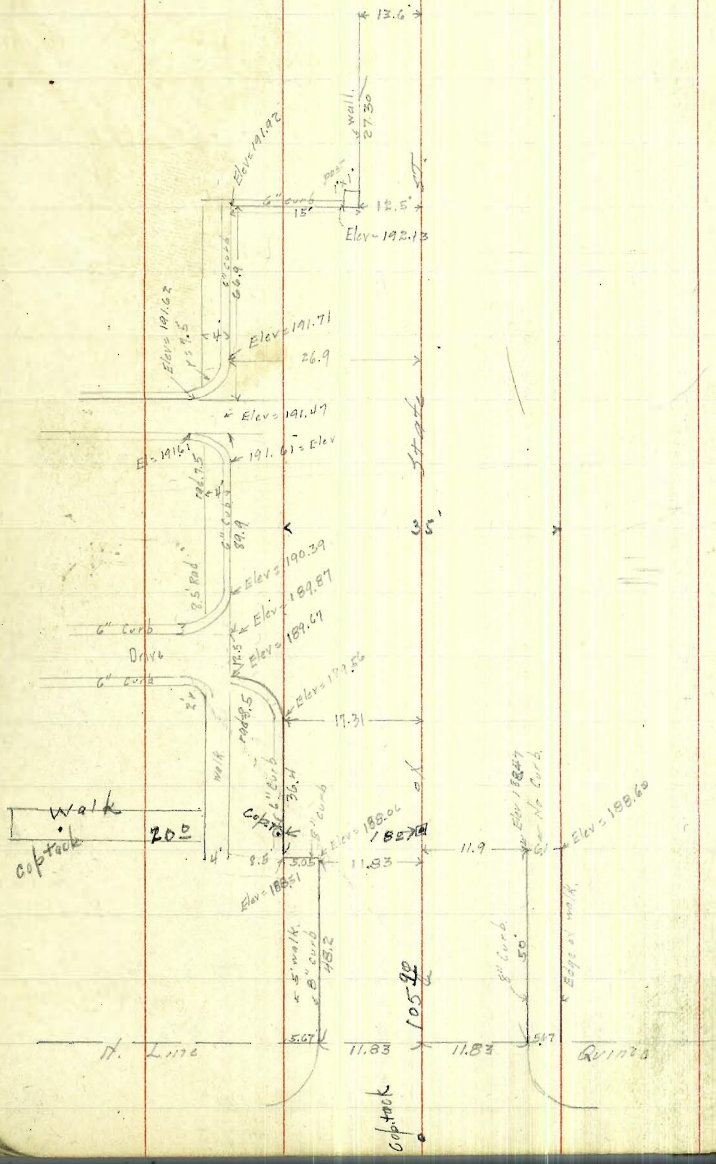
28' N. of ℄ of Culv.	17.8	14.0'	= bank
13 " " " "	14.9	16.9	
5 " " " "	15.7	16.1	
1 " " " "	14.6	17.4	= bank
℄ of Culv.	1.9	29.9	
2' 5 of ℄ of Culv.	1.7	30.1	
10 " " " "	0.0	31.8	

22' W. of W. end of Culv.

2' 5 of ℄ of Culv	+5.0	36.8
" " "	1.0	30.8
8' N. " "	2.0	29.8
8' " " "	3.5	28.3
11' N. of ℄ of Culv.	14.5	17.3 = bank
19' " " " "	18.5	13.3
26 " " " "	18.5	13.3
30 " " " "	9.5	22.3

1/5/22 Gregory Moore Miller Shaw

Improvements on State St Quince to Redwood



11.83
5.67
17.50

7.20
0.67

7.25
0.39

60'
19.62
.59
19.72

57'
19.72

17.3

8/3/W

X sec Alley Blk 2 Nutt's Add

15' wide

7.89 29241

0+00 = SL Univ

W. paving		5.55	786.86
C "		5.49	786.92
E "		5.40	787.01
	+50		
E		5.2	787.2
C		5.0	787.4
W		4.7	787.7
	+75		
E Garage Dirt floor on line		5.0	787.4
	1+00		
W		4.3	788.1
C		4.7	787.7
E		4.6	787.8
	1+23		
E		4.4	788.0
C		4.5	787.9
W Garage Plank floor on line		4.5	787.9

Cen NW 3rd Univ
284.52

	1+50		
W		4.0	788.4
C		4.3	788.1
E		4.4	788.0
	1+80		
E		3.75	788.66
	2+00		
E		4.0	788.4
C		4.0	788.4
W		3.7	788.7
	2+26		
W Garage Dirt floor		4.0	788.4
	2+40		
W		4.1	788.3
C		4.2	788.2
E		4.0	788.4
	2+70		
E		3.6	788.8
C		3.8	788.6
W		3.7	788.7

292 41

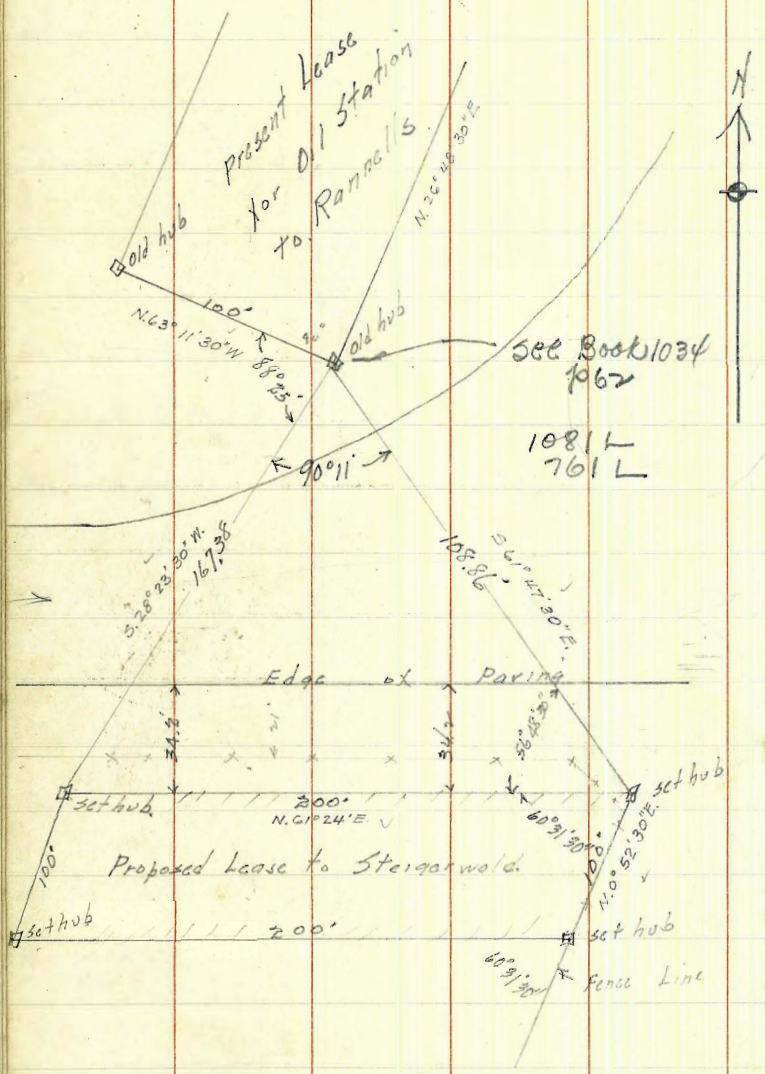
P 15

			292.41		292.41				291.67		291.67
			3+00					W		4.0	287.1
W				3.8	288.6				4+16 + NL Robinson		
C				3.9	288.5			W. Paving		5.03	286.64
E				3.6	288.8			C "		5.13	286.54
+4.5 Garage Conc. Apron				3.4	289.0			E "		4.76	286.91
			3+40					Check B.M. NW BP		2.70	288.97
-4.5 Garage Conc. Apron				3.27	289.14						
			3+50								
E Sidewalk -2.0 same as ex.				3.8	288.6						
C				4.1	288.3						
W				4.1	288.3						
T P	3.53	291.67		4.27	288.14						
			3+50								
W -25.0 Garage floor				3.55	288.12						
			3+83								
E -1.5 Sidewalk				3.35	288.32						
			4+00								
E -1.5 Sidewalk				3.50	288.17						
E				3.8	287.9						
C				4.0	287.7						

Levels for culvert Sta 59+76

	0.71	71.30		70.59	BM page 35
35' E. of ℄			11.5	9.8	
26' " "			11.5	9.8	
20' " "			10.8	10.5	= Top of Main
20' " "			12.3	9.0	= bott. " "
	Make arrangements for blow off into new Culvert				
15' " "			8.7	12.6	
℄ = 5' W. of old ℄			8.7	12.6	
14' W. of ℄			9.1	12.2	
20' " "			12.8	8.5	
40' " "			12.9	8.4	

9/21/22 Gregory Survey of Lease to Ellis Shaw Steigerwald in Pueblo Lot.

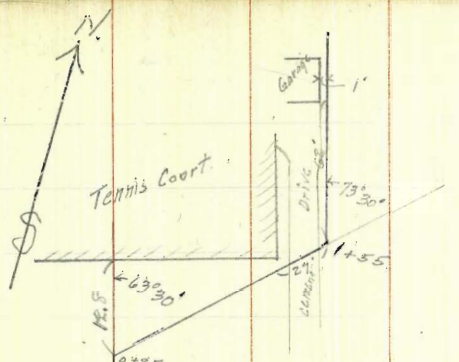


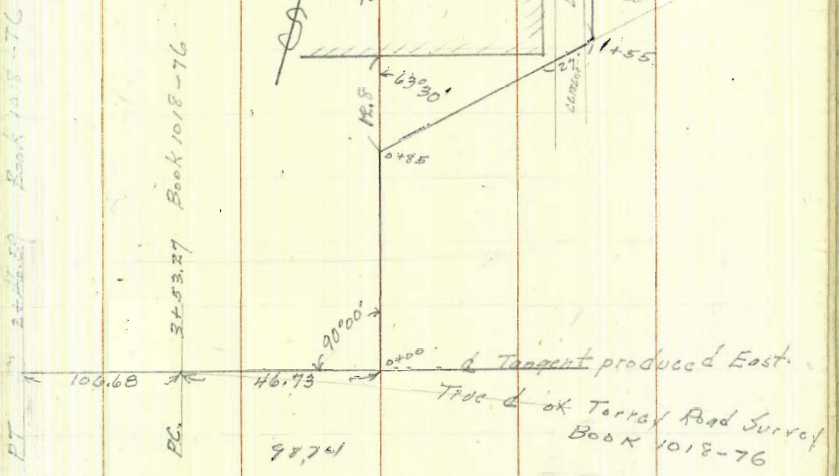
9/21/22 Gregory Levels 2' West of E Curb of 28th St from S. curb Line of Webster to ℄ of N St
Ellis
Shaw

	1.78	73.16	71.38	Spk NE Webster & 28th
EL. 28th & S curb Line Webster.		4.5	68.7	
S. curb Line Webster 2' W. of E cb Line 28th sewer		4.9	68.3	
0 + 3.0		4.2	69.0	
+50 = 2' S. of Hub Webster		4.6	68.6	
+62		4.9	68.3	
+63		5.4	67.8	
1		5.0	68.2	
+50		5.6	67.6	
2		6.7	66.5	
+06.0		6.7	66.5	
+08.0		4.8	68.4	
+17.0 = 12' W. of Sewer M.H.		4.8	68.4	
Flow line of sewer		8.0	65.2	
+50		4.7	68.5	
3		5.3	67.9	
+50		6.6	66.6	
+79		6.8	66.4	
+84 = 2' S. of S rail N St		5.5	67.7	

4/6/23 Gregory Levels on ℄ Drain Shown on opposite page.

	4.44	101.98		117.54	SM Gas Co p/c 1560.
− 23.0			0.6	121.38	
− 16.0			1.4	120.58	
− 11.9 = edge pavement.			1.3	120.68	
0+00			1.1	120.88	
+ 8.1 = edge pavement			1.04	120.94	
+ 18.0			2.1	119.88	
+ 22.0			3.3	118.68	
T.P.	0.05	109.36	12.67	109.31	
+ 46.0			6.8	102.56	
+ 60.			8.7	100.66	
+ 85 △ 63°30' R.			11.95	97.41	on stub
1+00			13.3	96.06	
TP	1.95	98.74	12.57	96.79	
+ 28			3.8	94.94	
+ 41 = edge cement drive			3.55	94.19	
+ 51 = " " "			11.07	94.67	
+ 55 △ 73°30 L			3.7	95.04	
+ 82			6.2	92.52	





0+46

7+68 = 150' E. x N. 9'h.
150' S. x Rayline
Elev stub 12.33

7+70 = 150'S N+N 10630

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ TO 1.

FOR SINGLE TRACK EMBANKMENT.

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

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