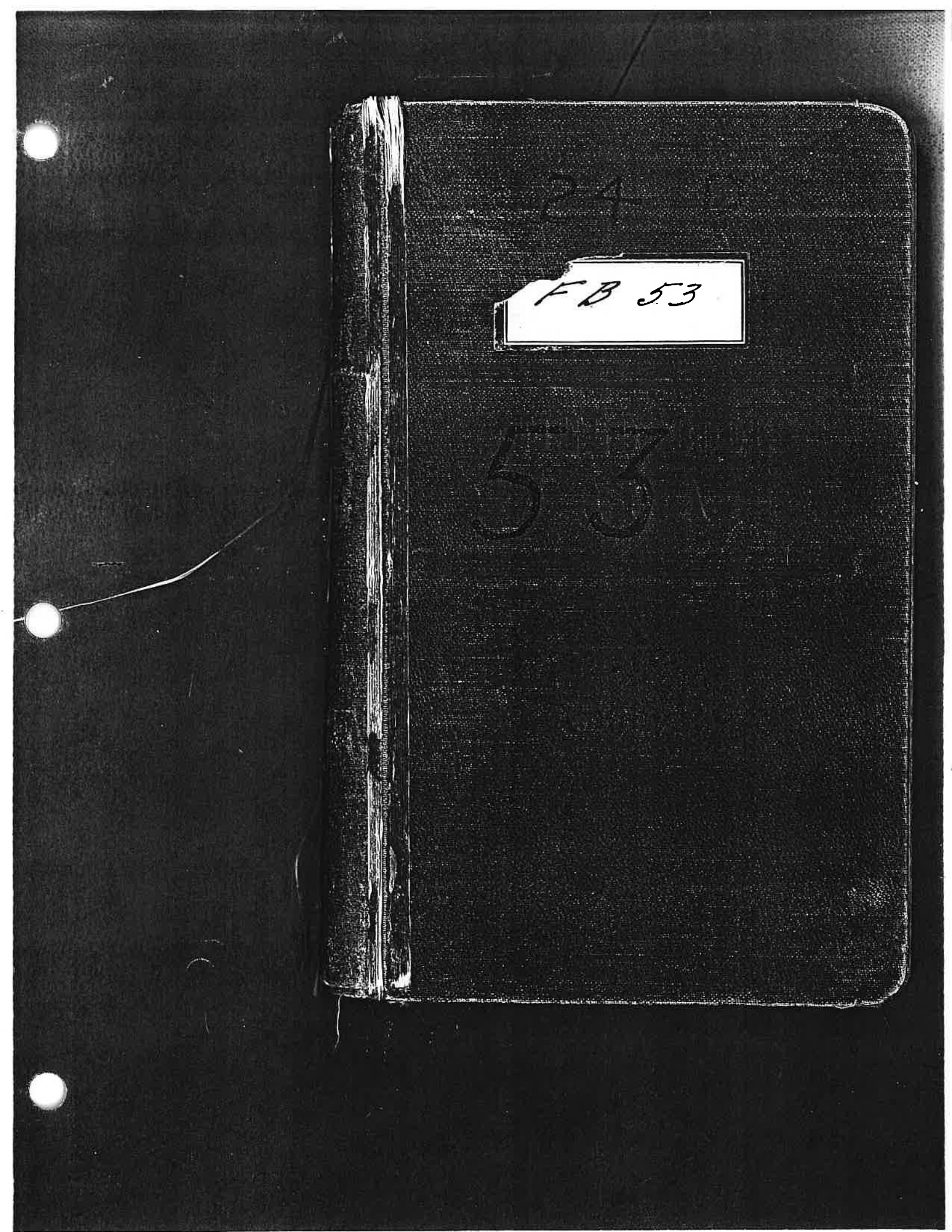
Field Book # 53


FB 53

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.

"Copyright, 1895, by Keuffel & Esser Co."

	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.

For Keith's Railroad Curve Tabels see end of book.

1/8
1/4
3/8
1/2
5/8
3/4
1 in

Water Filing For Wheeler. 1-4
Lilly To Osborne. 5
Water Filing For C M Bradford 6
Survey For Rice. 7
Fish and Game Com" Winchester 8-15
Snell Random Line A 16-28
Taylor Alexander Sub Div. 29
Winchester Platt never used. 30
{Y. Ward F.L. Smith. Road and. 31
{R E Johnston Line.
H A Winston. 32
Fishand Game Com" Winchester. 33-34
{Canyon Ville. Sur." Street 35-36
{and Side Walk. Lines.
{Snell Estate. For. 37-44
{Sumner Snell
Hopple Surv" 45
Vosburg Kelly Cor. 46-47
Ritter Lot Line. 48
Tim Toney St Ditch. 49-50
Dossin. Water Filing. 51-53
Haynes St. 54
Survey For P Foster and Agee. 55
Pig Pen For Cloake. 57
East Ave Paving. 60
East 4th St N. 61-67

Waitand		Lone	Side Walk.		68-6
E 47th St.					70
1st Ave. N.					71-73
Grimkot &		Roberts	St.		74
2nd Ave N.					75
					76-81

Elev. Water Filling For Wheeler.

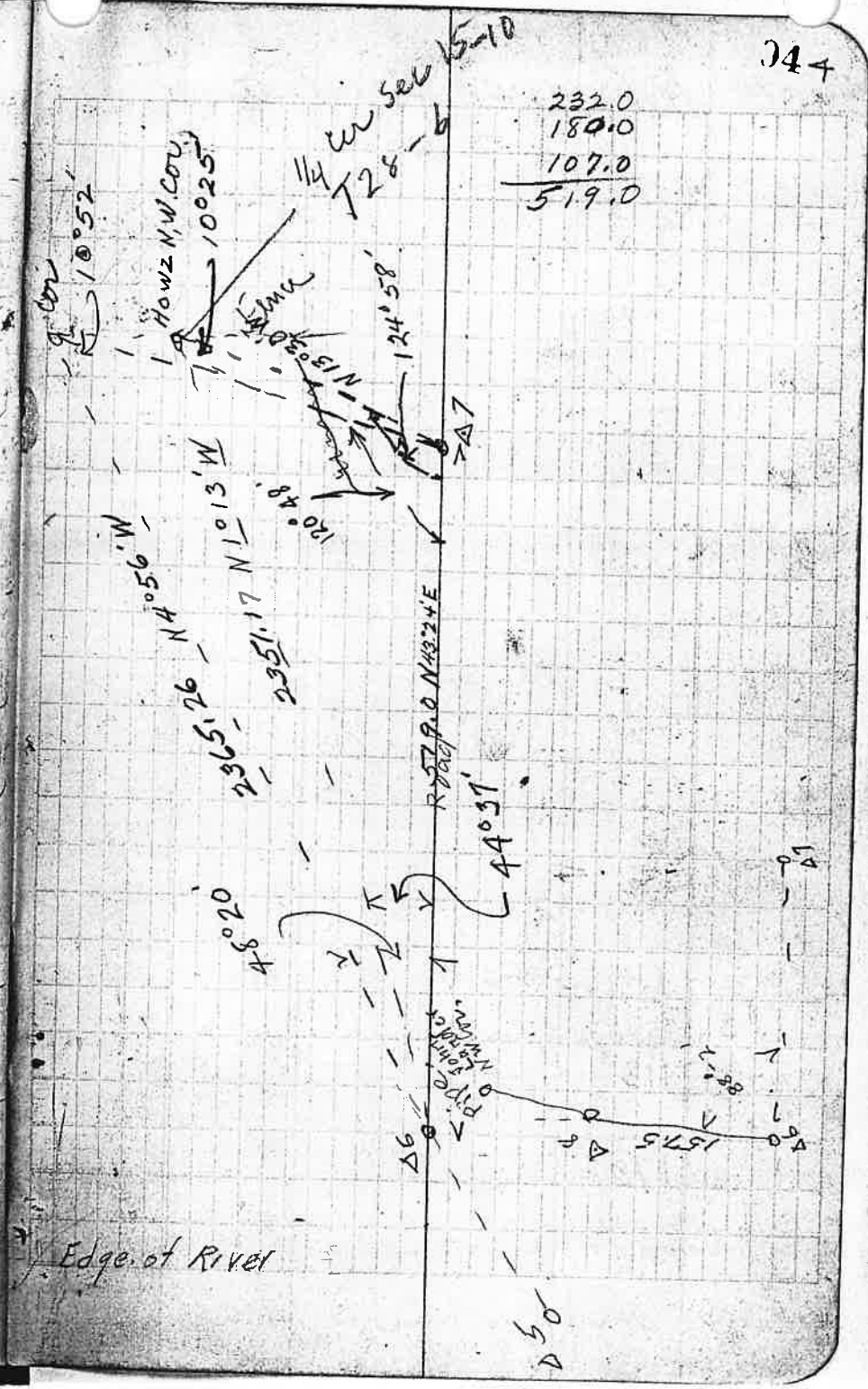
Eppstein

T28S.R6W.

Sta.	+	⊼	−		Elev.
	1.49	501.49			500.
			11.64	489.85	
	0.25	490.10			
			11.89	478.21	
	1.04	479.25			
			11.56	467.69	
	0.55	468.24			
			11.44	456.80	
	1.91	458.21			
			11.47	446.74	
	0.35	447.09			
			9.01	438.08	
	2.93	441.01			
			11.99	429.02	
	0.53	429.55			
			10.90		
	1.46	420.11		418.65	
			13.40	406.71	
					500
	11.62	511.62			
			0.10	511.52	
	12.25	523.77			
			0.35	523.42	
	11.74	525.16			
			0.15	525.01	

+	⊼	−	525.01
11.06	536.07		
		0.57	535.50
11.93	547.43		
		0.47	546.96
11.41	558.37		
		0.76	557.61
12.15	569.76		
		0.48	569.28
10.36	579.64		
		0.85	578.79
11.57	590.36		
		1.11	589.25

Sta.	Dist.	Angle	Cal. Bear.	Vert. Angle	Needle Bear.
Iron pipe △9					
	124.2	12°36′ L	N61°10′W	12C.5 11°15	N63°W
△6 △8			From △7	157.5	
Triangulation △7	156.2	88°02 R	N48°34′W	7°30′	N50°W
		11°40′ R	N43°24′E		N41°30′E
△6					
	89.3	32°50′ R	N31°44′E		N30°E
△5					
	169.8	8°12′ L	N1°06′W	170.1 3°30′	N2°30′W
△4					
	212.9	21°03′ L	N7°06′E	213.8 5°15′	N7°E
△3					
	292.17	10°21′ L	N28°09′E	297.0 5°30′	N26°30′E
△2					
	298.5	12°48′ L	N38°30′E	298.6 0°30′	N36°30′E
△1 Bunk					
	129.8		N51°18′E	133.0 12°30′	N51°18′E
0+00					

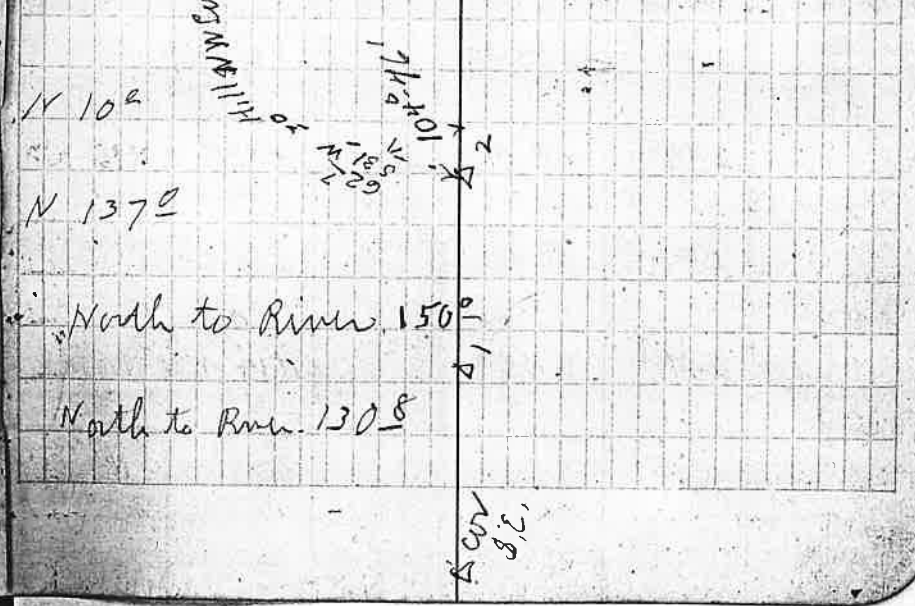


June 9/24
Eppstein

Filed in Env 501

Tilt to Osborne — glide

SW Cor				
	289 ±	0-23 W	N46-0W	N46°-33W
D 3				
	113 ±			
D 2				
	173 ±		N46W	
D 1				
	92 ±			N46°10 W
S E Cor	on Section Line 125.7 feet North to River			



June 10/24

Bowker

Ent. 519

Water Filing - (E. M. Bradford)
T27 - R6W.

	63°	∠ 32°15'	-8°14'	N 30 E	N 31-27 E
# 8					
	82 ½	R 12°55'	-12°35'	N 1° E	N 0°48' E
# 7					
	108'	∠ 0°34'	-9°00	N 12°15 W	N 13-43 W
# 6					
	241° 0'	R 0°11'		N 8°30 W	N 13 89' W
# 5					
	300° 0'	∠ 0°02'		N 12° W	N 13-52 W
# 4					
	244°	∠ 23°33'		N 12° W	N 13°-18 W
# 3					
	299° 9'	∠ 5°09'		N 88 E	N 10-15 E
# 2					
	299.6	0°00'		N 13 E	N 15°24 E
# 1					
	207 3	R 15°24'		N 14° 45 W	N 15°24 E
N.W. cor					
D.L.C. line				N 30° E W	N

Water - 9.0

Bank River Pump - 17.9

-1' H.S. Bank River - 17.9

in field

Fence

RICE

Sta	Dist	L A	R A	M.C.
△6		41-24		S 91°-30 W
△3A	61.8			
△2	179.9			
△1.A.	175.7			
NE Cor				West
△3A	85.2		64-34	N 52 E
NW Cor △6	146.5	16-29		N 17 W
△5	130.9		90°-31	N 2 W
S.W. Cor.	139.5			
△4	314.2		90°	N 89° W
SE. Cor.	315.2			
△3	335.7			
△2	444.2			
△1	405.4			South
NE Corner				

Lane County

June 15-1923

H.L.E. 37

N. R.

J. A. Doughty

John Hollis.

Turned 90° from △1

stake.

C.S. Cor.

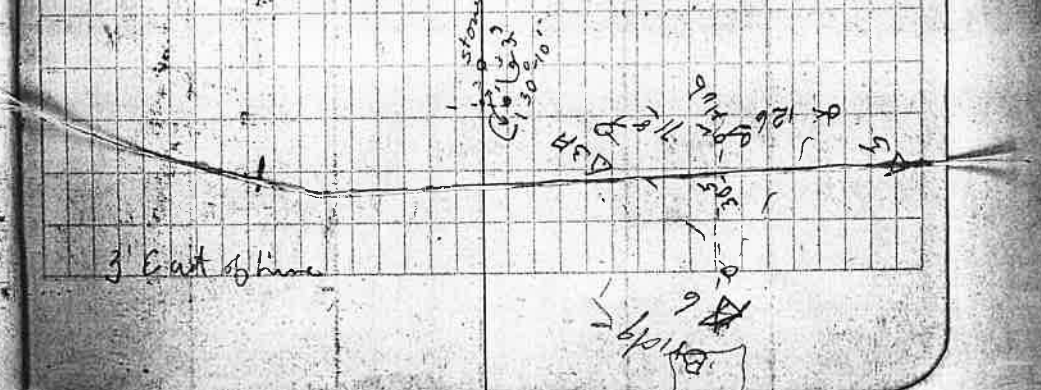
1 N. 10 W. 1.41 = 1°-0'

NE Cor

△1

Road 60' wide center of Road Nail

3' East & 3' south of Cor. stone C.S. stake.

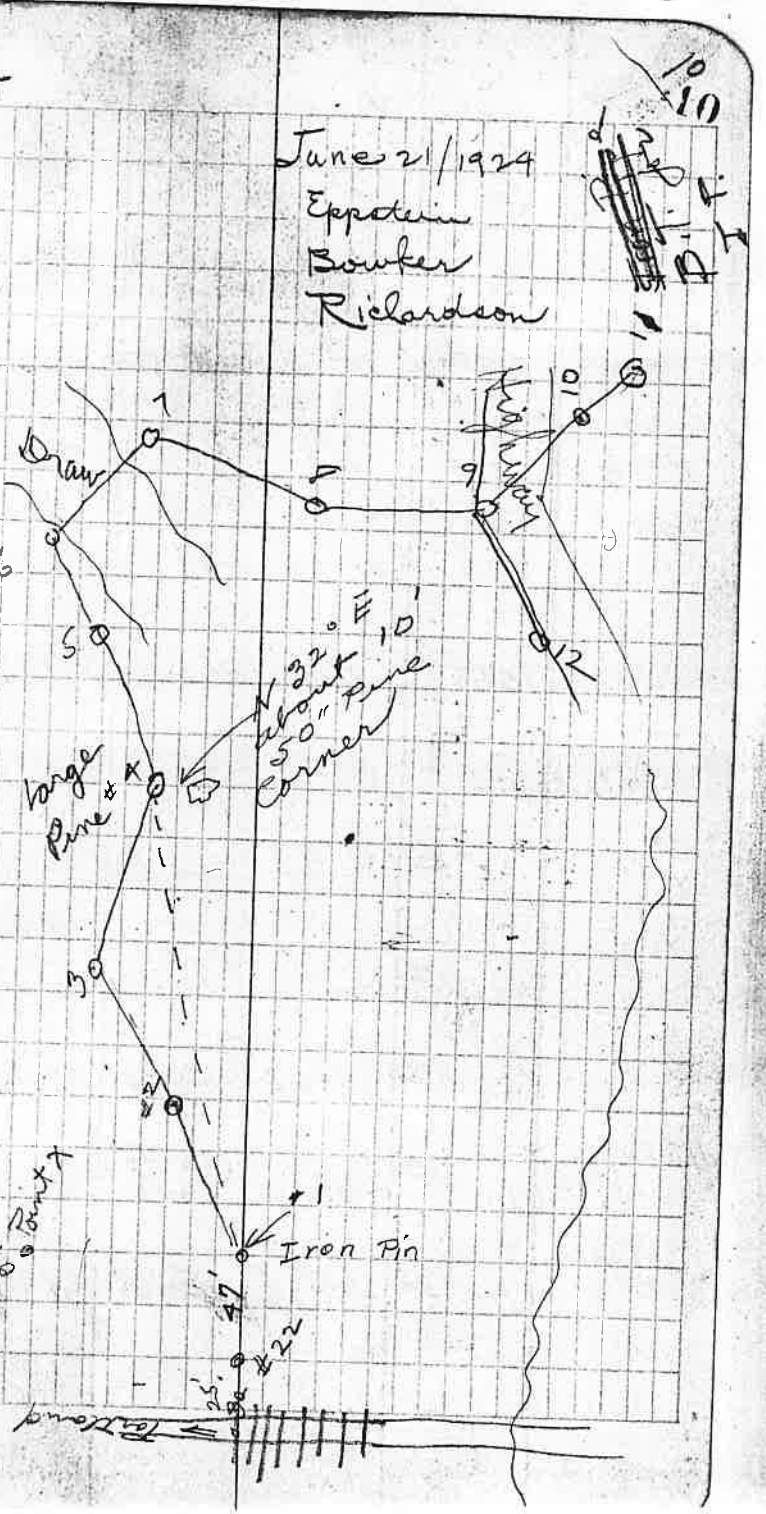


3' East of line

Sta	+	Elevon A 14.5	Gage board −	Elev		
					14.5	Gage board of S.P. S.P. 14.00 = 13.2 of G.S.
T.P. Cross Rail	6.66	8.76	12.40	2.1		
T.P.	9.98	15.46	3.28	5.48		
T.P.	7.50	20.77	2.19	13.27		Some High Water.
T.P.	8.38	28.66	0.50	20.27		on Dam
			-4.39		24.26	Mud. Top of Ridge where Houses are to be.
			-3.49		25.16	on Bolt by Bent where ladder is.
			+3.9		32.55	on North Conc pier of R.R. Br.
T.P.	4.38	20.87	12.16		16.49	Level to Dam.
T.P.	7.00	24.84	3.03	17.84		
T.P.	3.20	19.83	8.21	16.63		
				1.80	18.03	Top Dam
				0.00	=	7.4 Reading on Wheeler Gage Board Below Dam
	↑ 17.8	BM S.P. Board				
			+2.45		20.25 =	High Water Jan 1. 1923 S.P. Dope

Sta	+	Δ	−	R		
	2.66	26.92			24.26	Hub
T.P.			7.80		19.12	
	5.65	24.77				
				3.63	21.14	on I Rod at CopCo Sta 16+00
				4.58	20.19	" Ground " " " "
			5.73		19.04	Hub at New Site

Station	Fish & game Dist.	Vert.	Hor. Right from B.S.	Mag.	C.C.	Hor. Dist.
11						
10	165 -5	-2°50'	177 30	N75 E	N72°46E	124.0
9	44 -4	-2°40'	164°33'	N76½ E	N75-16E	255
Act Dist 8	375 8	-55'	133°44'	N88¼ E	S89-17E	375.6 ✓
Act Dist 7	271 8'	+3°12'	238°04'	S42½E	S43-01E	271.4 ✓
6	204 -1	-1°50'	258 17'	N79½E	N78°55E	958 ✓
5	123 -7	-1°50'	180°00'	N1°E	N0°38'E	1762 ✓
4	191 -8	0°00'	144°38'	N1° E	N0°38'E	1082
3	131 -4	-1°05'	202°33'	N36½E	N36-00E	168.6
2	188 -6	+7°10'	176°08'	N14°E	N13-27E	1105
#1	155 -3	+15°00'	72°20'	N22°E	N17-19E	1398
				N55°30'	N55°01W	



Stat	Dist	Ver ∠	Hor ∠	Mag.	C.C.	Hor. Dist.	
22							
	101 -7	00	190°06	N47W	N48-16W	1983	
21							
~~act~~	89.5	00	164°02	N57W	N58-22W	89.5	Iron Bolt ⊙ #20
20							
act Dist	277 -3	00	184°58	N49½W	N42°-24W	277.3	
19							
	194 -3	+6°30'	249°19	N49½W	N47-22W	1050	
18							
	155 -9	00	202°11'	S62½W	S63-19W	1441	on RR on edge river
17							
act Dist	286 8	0-0	187°49	S41°W	S41-08W	286.8	
16							river
	103 +2		222°04	S37°W	S33-19W	197.2	
15							Rock at water edge
	226 -4	-13°16	0°00		S8°45'E	71.6	
14							Edge of Sand Bank ⟩ to Highway Bridge 30'E to ℄
	112 -1	-0°40'	176°38	S2½E	S8°45'E	187.3	
13							Pier #2
	101 -1°	-19°35'	184°58' ~~N3°54~~	S6°E	S5°23E	186.5	
12							
	209 -5	-11°25'	258°56'	N9°W	S10-21E	88.7	
9							
					S89-19E		
8							

12/12

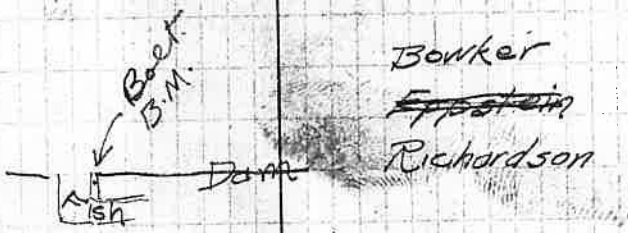
#2					
	1		175° 31'		N 17-19 E
#1					
	47 0'	00'	250° 04'	N 22 E	N 21-48 E
22					
2p					

470

June 23-1924

Fish and Game

Stat	+	H.I	−	-Int	Elev.	Max Grade
B.M.					100.00	
	0.55	100.55				
Water El.				1.90	98.65	96.5
1+00				6.40	94.15	96.2
2+00				10.72	89.83	95.9
2+25				6.75	94.80	
3+00				9.00	91.55	95.6
T.P.			7.62		92.93	
	7.43	100.36				
4+00				6.70	93.66	95.3
5+00				5.50	94.86	95.0
6+00				5.4	94.96	94.7
7+00				4.25	96.11	94.4
T.P.			3.44		96.92	
	4.14	101.06				
8+00				6.3	94.76	94.1
B.M.				1.92		
9+00				5.3	95.7	93.8
T.P.			4.39		96.67	
	3.00	99.67				
10+00				3.95	95.72	93.5
11+00 bottom draw				4.2	95.47	93.2
11+00 Stake				4.4		
11+00 - 60' Left				5.9	93.97	93.2
12+00				3.5	96.17	92.4
T.P.			2.79		96.90	
	15.12		18.22			



Bowker
~~Eppstein~~
Richardson

On 12" Oak

100.00
15.12
115.12
18.22
96.90

Stat	+	H.I	−	Int	
T.P.					96.90
	4.69	101.59			
13+00				6.5	95.09
B.M.				5.01	96.58
T.P.			5.06		96.53
	1.32	97.85			
14+00				5.1	92.75
15+00				4.15	93.70
16+00				3.65	94.20
T.P.			2.83		95.02
	3.61	98.63			
17+00				5.15	93.48
18+00				6.15	92.48
T.P.			4.24		94.39
	6.28	100.67			
19+00				8.8	91.87
20+00				7.6	93.07 ✓
T.P.					
B.M.					
					96.58
	4.45	101.03			
12+00				4.9	96.13
A 0+30				3.2	97.83
0+78				4.5	96.53
0+96				7.0	94.03

92.6

Top of Bolt on E side of Bent #8 on R.R. Bridge. Counting little short bent at end. Bolt is one that holds sill to concrete

16+50 −6.2 = 91.4

96.90
15.90
112.80
12.13
100.67

12+00 — to River "A" Line

~~A 0+00~~

93.0

92.1

Stat	+	H.I.	−	Int.	Elev.
1+15		101.03		4.5	96.53
1+55				4.4	96.63
T.P.			0.16		100.87
	6.70	107.57			
2+00				3.2	104.37
2+75				4.2	103.37
3+00				8.4	99.17
3+30				13.2	94.37
4+00				12.5	95.07
5+00				11.0	96.57
T.P.			10.55		97.02
	0.38	97.40			
5+06				0.35	97.05
5+38				6.8	90.60

92.6	93.7	−10.4
92.3	93.4	−5.7
92.0	93.1	−1.9
91.7	92.8	−3.8

Stat	Shell Dist.	Ver. ∠	Random: Hor Dist	Hor ∠	M.C.
# 11					
	175 0	-11°28'	171.5	00	
#10					
	120 4	-8°30	119.1	00	
#9					
	214 8	-6°40'	213.3	00	
#8					
	217 2	-4°04	216.6	00	
#7					
	89.6	00	89.6	00	
#6					
	300	-21°00'	280.0	00	
#5					
	78 2	-16°25	75.0	R90°	
#4					
	5 0	0-00		L90°	
#3					
	110 7	-16°00'	106.4	L90°	S60°E
#2					
	5 0	0°00		R90°	
#1					
	49 2	-14°15'	47.7		
N.W. Cor. D.L.C. 37					S 1 0 E

Line A

C.C.

16

16

6/24/24

Corner 20 chains

1147.7 to here

174.5

1319.2

1320.5

1.3+ to P. Shell Cor.

1147.7

119.1

1028.6

on Flat

P.O.T. No Hub.

T22S. R6W

Secs. 7-8-17

Station	Dist	Ver ∠	Hor Dist	Hor ∠	M.C.
23					
	115.5	0	115.5	R 90°	
#22					
	15	0		L 90°	
#21					
	229.7	0	229.7		
#20					
	138.6	0 0	138.6	0 0	
#19					
	300	+3°45'	299	0 0	
#18					
	171.8	+13°45'	166.9	0 0	
#17					
	149.6	-4°00'	149.4	0 0	
#16					
	349.1	-0°35'	349.1	0 0	
#15					
	217.5	+3°45'	217.0	0 0	
#14					
	268.0	+5°39'	266.8	R 90°	
#13					
	30.0	0.0		L 90°	
#12					
	284.8	+3°25'	284.3		
#11					
			2116.1		

No Point

Edge Road

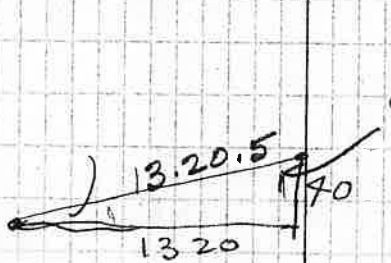
Edge woods

on clear knoll

Cor				
~~204~~	93.6	7°40'	92.8	L5°10'-30"
28	171.2	-2°50	171	00
27	219.7	-9°	217.0	R90°
26	76.7	-3°	76.6	90° L
25	154°	-29°10'	133.6	00
24	103.2	-31°31'	88.0	00
23	58.1	-16°04	55.7	00
			66.54	

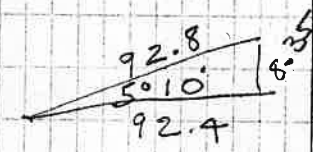
18

18



4291.7 : 1320 :: 130 : X

X = ~~39.7~~ 40.0



4201.3
92.4

Total on R. Line 4293.7

130' S. Corners

Near fence Dist. on True Line 4291.7

Bottom of Hill

on Hill

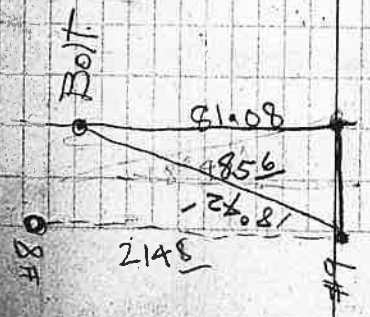
Brow Hill

Tie Station	To Dist.	Iron Pipe Vert	Hor D.	~~Hor~~ M.C.	M.C.
Cor #1 A	40.0	—	40.0	≠R 88° 16	
#1	5.9	—	5.9	0 0	
#Iron Pipe #9	86.5	+8° 15'	85.6	≠R 18° 44	
#8					

8 N.E Cor Ida Hicks 8019

19

Cor on B.L.C. Line
Cor on Random Line



Stat.	Dist	V. ∠	Hor D	Hor ∠	M.C.
#11					
	25.0	0	49.2	R 20°	
#10					
	25.0	0		L 10°	
#9					
	128.9	+4°28'	128.5	00	
#8					
	89.5	-29°51	77.7		
#7					
	49.0	-5°10'	48.8	00	
#6					
	254.8	-8°22'	252.1	00	
#5					
	227.0	-4°04	226.4	00	
#4					
	314.8	-3°00	314.4	00	
#3		+			
	306.2	+0°	306.2	00	
#2					
	298.5	+1°02'	298.5	00	
#1					
	94.6	+3°34'	92.7	0.0	S27½W
#11A					
	40'0		40.0		
Cor					
			1834.5		

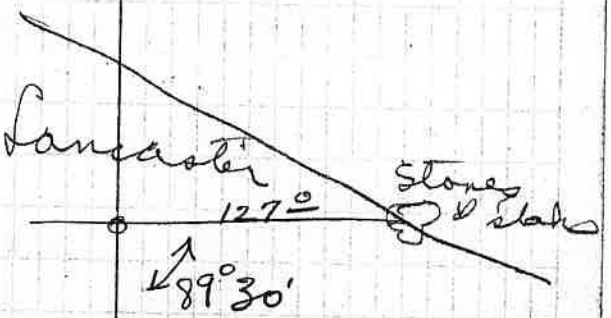
River

On County Road

Stat.	Dist	Ver. ∠	Hor Dist.	Hor ∠	H/C
Frear Cor					
	127.0	0 0		R 89°30'	
#17					
	73.0	2°50		0 0	
#16					
	147.4	-1° 00			
#15					
	160.2	+2° 35'			
#14					
	117.1	+3°20'		0 0	
#13					
	144.5	-1°20'	144.4		
#12					
	142.1	0 0	142.1		
#11				L 10°	

189.5

21
31



Fence
1' to Fence

Random Line

Stat	Dist	Vert ∠	Hor Dist	Hor ∠	M.C
#8					
	18.0	+12°30'	17.6	R40°	
#7					
	18.0	+12°30'	17.6	L20°	
#6					
	137.2	+18°00'	130.5	R10°	
#5					
	30.0	+10°00	29.5	L20°	
#4					
	30°	+10°00	29.5	R10°00	
#3					
	132°	+11°34'	129.3	L5°	
#2					
	75°	00	75°	R10°	
#1					
	75.0	00	75°	R85°	E
Cor					
	103.1	00	00	00	
#2					
	130'	-4°29'	129.6		
#1					
	114'	0	114.1	∠R63°26'	N-1°W
Rock file					
#29					

CC

7.2
12

165
165
1305
291
291
1293
74.7
747
1037

Distances on True Line

500.4

1296
1141
347.4

N
563°26 E

#14					
	219 I	+9°31	216.7	00	
#13					
11	144	+13°36	140.1	00	
#12					
	216 I	+17°03	207.2	00	
#11					
	191 O	+1°30	190.9	00	
#10					
	142 I	+7°50	141.4	00	
#9					
	152 6	+8°44	150.8	L 20°	
#9					
			1047.1		

On hillside across flat

Top Hill

On Hill

Out of Trees

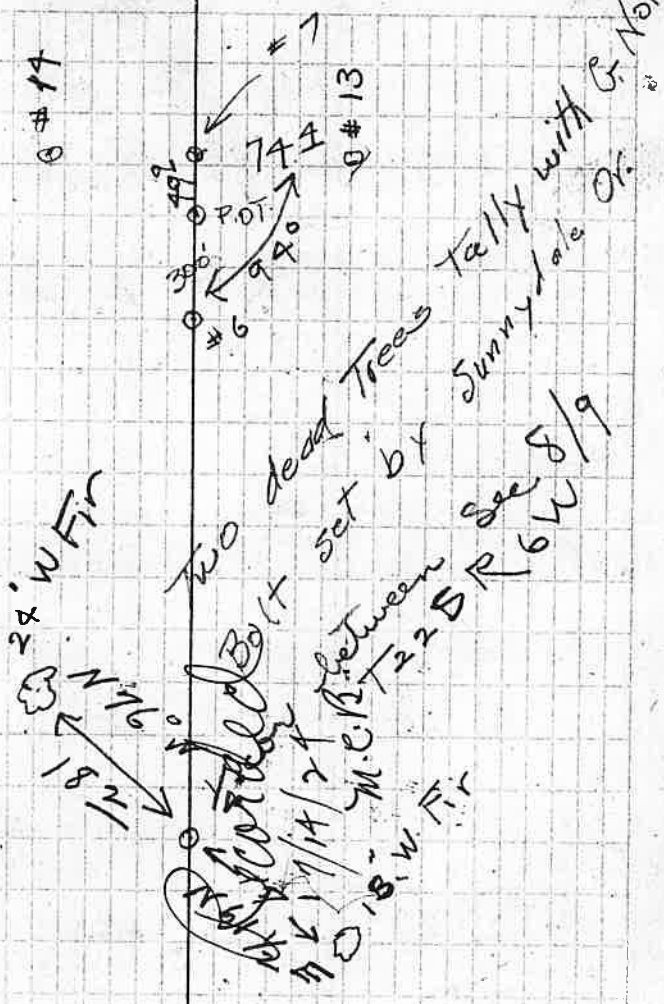
# 11					
	171 8	-14° 20'	166.5	00	
# 10					
	169 0	-4°	168.6	00	
# 9					
	166 3	3°20'	166.0	00	
# 8					
	264 6	+11°45'	256.9	00	
# 7					
~~# 7~~	49 9	00	49.9		
	300	+6°27'	298.1	00	
#6					
	180 5	+14°40'	174.6	00	
#5					
	211 0	+5°14'	210.1	00	
#4					
	271 5	+7°00'	269.5	90° R	
#3					
	149 8	+7°14'	[illegible]	90° L	
#2					
	180 6	+8°09'	178.8	00	
#1					
	128 9	+8°00'	127.6		
Cor					
			2066.6		

Edge Trees

I. Point.

(No Point)

148.6



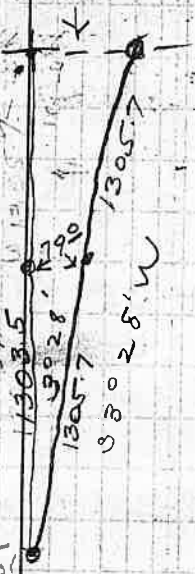
		2) 2611.5 / 1305.7		
8/9/16/17 Cont T22R6				
#19	77°	-30°37'	663	L 14°18'
18	75°	-32°10'	63.5	00
#17	111 9	-31°50	95.1	00
#16	103 3	-34°50	84.8	L 90°
#15	7 0	00		R 90°
#14	28 9	-36°51'	23.1	
#10	107 2	-29°01'	94.2	L 2°
#12	60'	00	60.0	R 4°
#11	60'	00	60.0	L 2°
			480.7 / 64.2 / 54499	

2.5
3.5

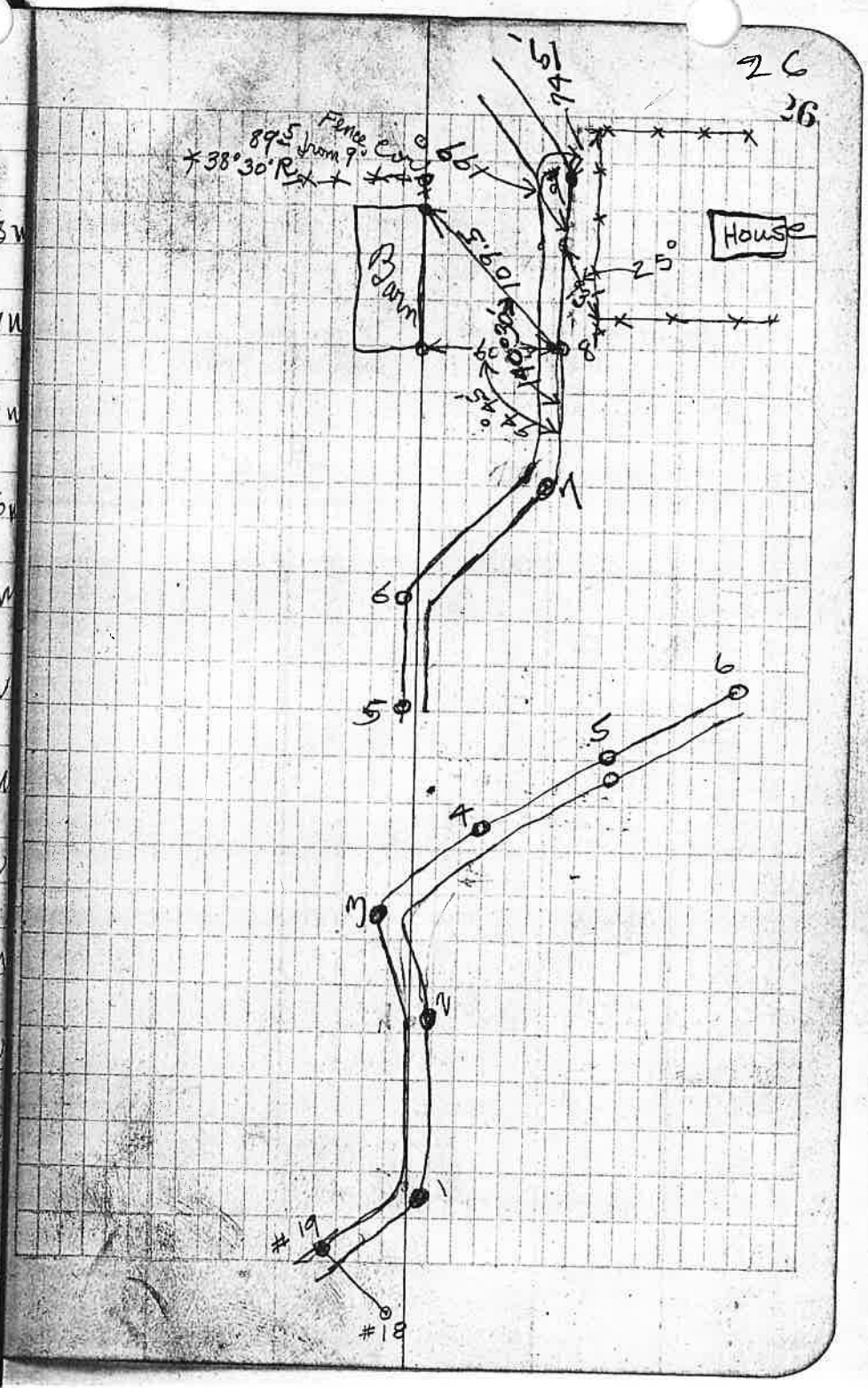
More #7 - 168 7 N
More #7 - 69.6 W

16 4 left.
On Road.

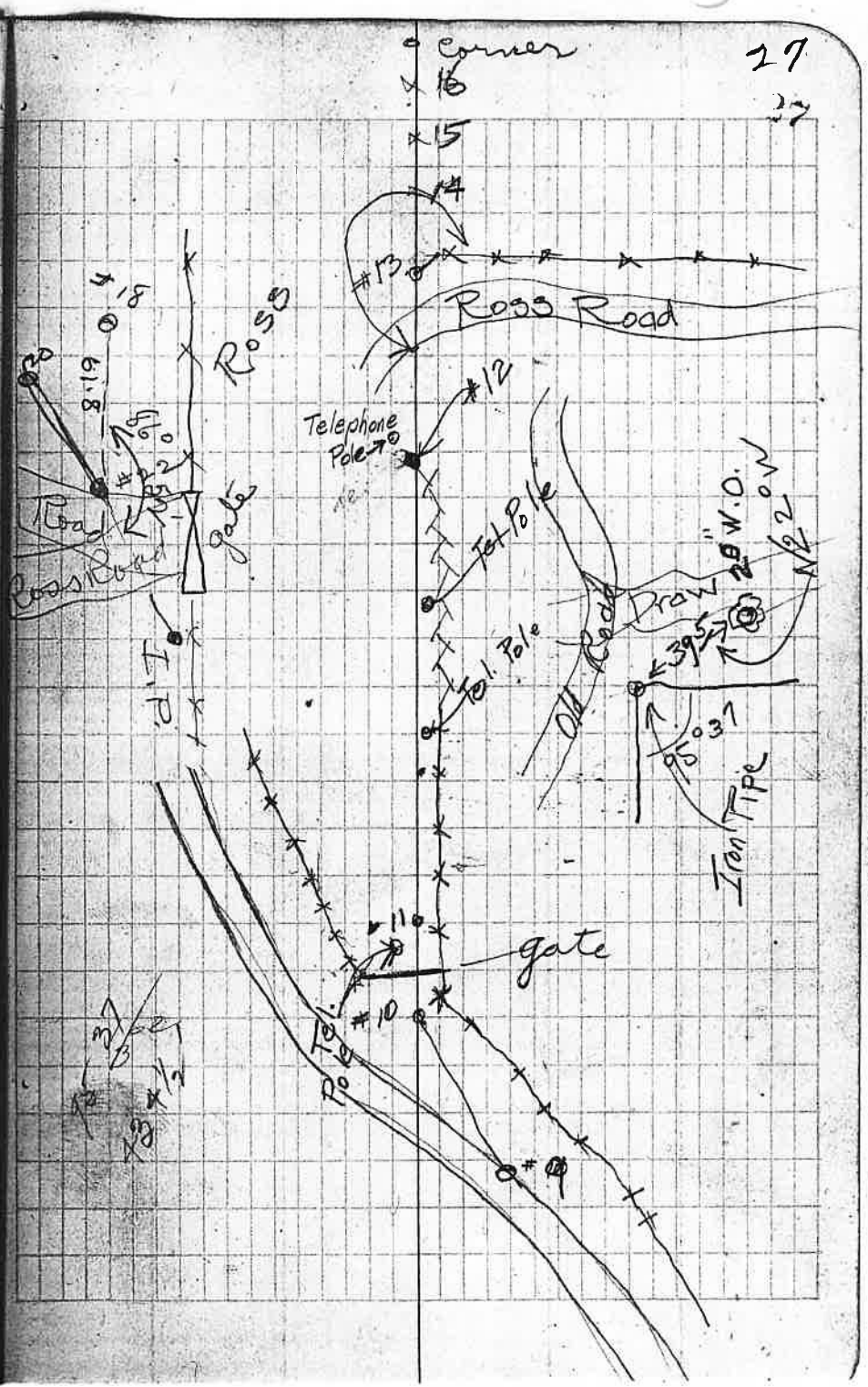
L 148.6
R 7.0
L 141.6
L 16.4
L 158.0

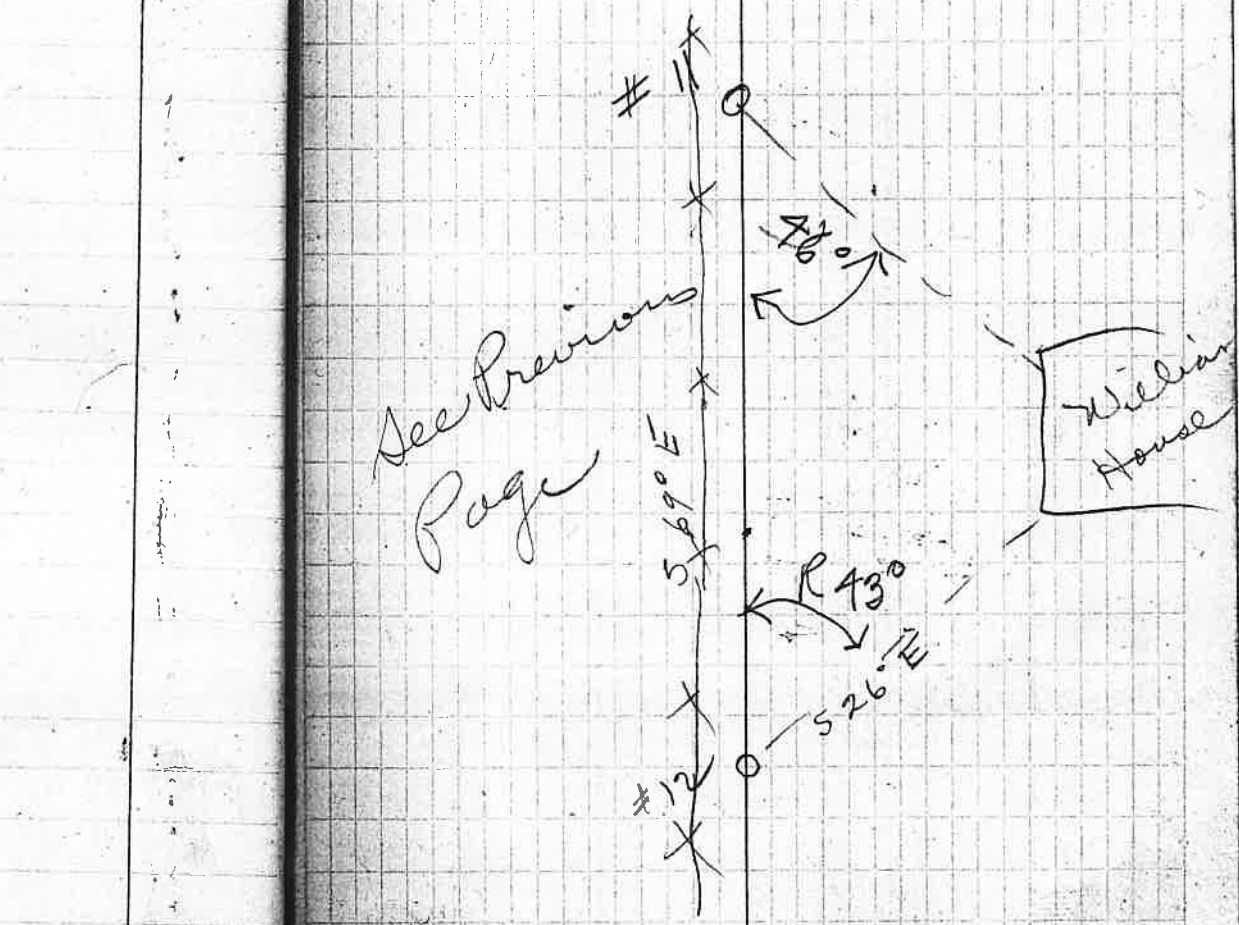


Stat.	Hor. Dist.	Right Hor. ∠		M.C.	C.C.
# 11					
	59.0	201°04'		N 71° W	N68-53 W
# 10					
	172.1	143°22'		S 88½ W	N89-57 W
# 9					
	214.8	176°31'		N55° W	N53-19 W
# 8					
	297.8	158°17		N 51½ W	N49-50 W
# 7					
	308.0	237°57		N 29¼ W	N28-07 W
# 6					
	443.2	189°30'		W	N86-04 W
# 5					
	233.4	191°15'		S 81½ W	S84-26 W
# 4					
	238.0	224°33		S 70½ W	S73-11 W
# 3					
	228.4	156°42		S 26° W	S28-38 W
# 2					
	323.8	146°47		S 48° W	S51-56 W
# 1					
	241.9	261°41'		S 86° W	S85-09 W
# 19					
# 18					S3° 28 W

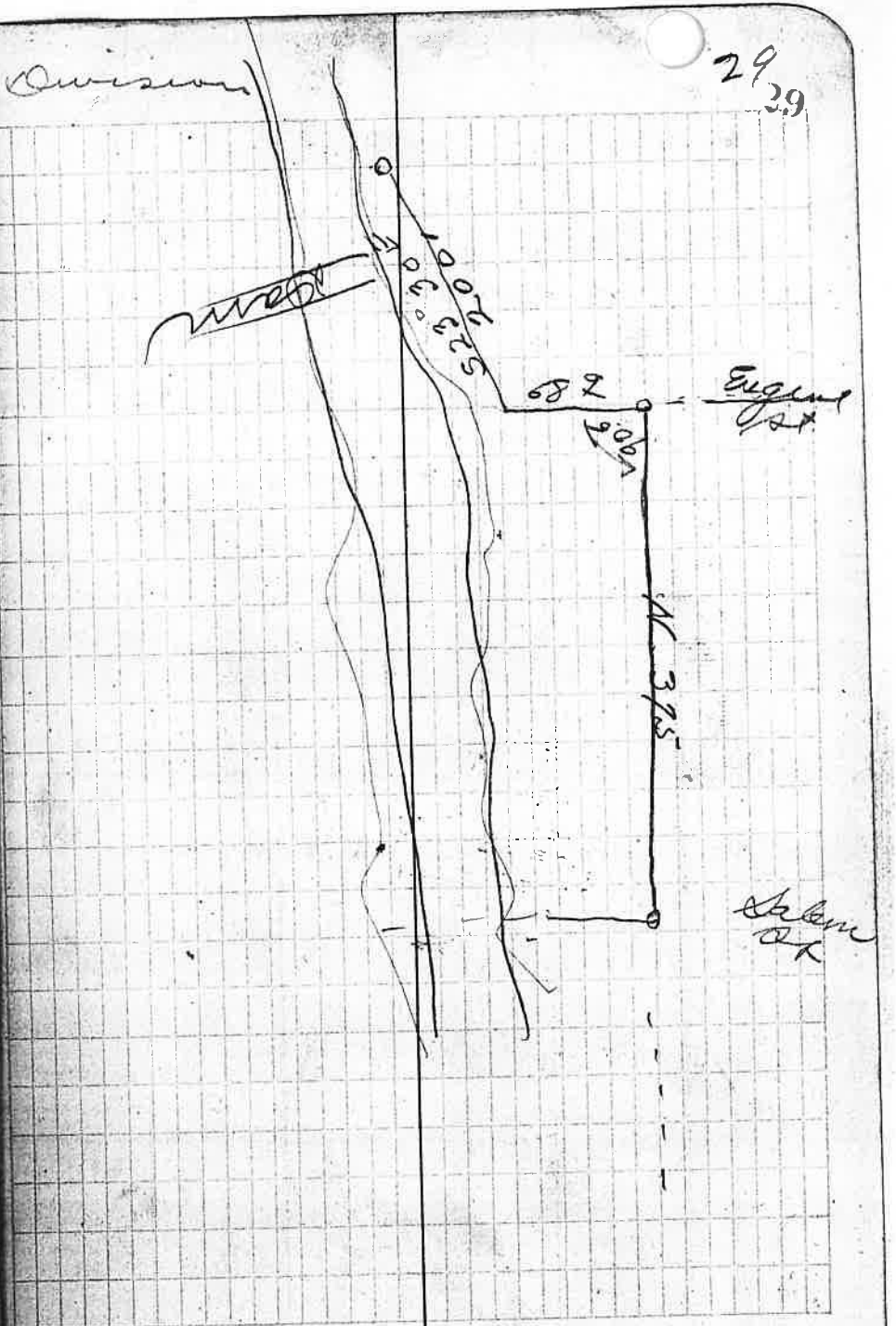


Stat.	Hor Dist	∠ Right	~~∠ L~~	M.C	C.C.
22					
	785.8	00	00		
21					
	169.3		+5°½		
20					
	20'	R 16°			
19					
	20'	∠ 8°			
18					
	106.5		+6°35'		
17					
	137.7		+13°50		
Cor.					
	57.5	R 95°37	-15°45'		
#16					
	43.5	00	00		
#15					
	183.1	180°	+6°32		
#14					
	145.0	180°			
#13					
	147.4	183°23'			N66-37W
#12					
	462.0	179°53'			N69-00W
#11					N68-53W




#11
R 78°
See Previous Page
S 69° E
Weldon House
R 43°
S 26° E
#12

Taylor - Alexander Sub Division



Winchester

Winchester St. Plat

— Never Used —

# 4					
		#R 288°08		S5 1/2E	S7.08E
#3					
	19	#R 88°21'			N 64 44E
# N					
	669	#R 111°24'			S24.37E
#1					
	18			S46°W	#43.59W
P.O.C					

3 (51)

June 30/24

Bowker

Richardson

NW cor Lot # 2

NW cor Lot #1

N 24° 20' W 673.5 feet

R.W. & F.L. Smith Road &
R. E. Johnston Line.

West Ak

1

Cor stake
Found old
stak.

411 ±

D 2

" 365°

N5-53E

D 1

400°

100°-30'

Stone
Pile
N W Cor

N85-23E
5 m

B86 ± W

State of Calif. Line Mixed Corner 6x4/10 6 Foot.

Put in 1"-24" steel Drill old stake Mark C.S.

width of road 15'

765 feet through Ada Ellinger for road

Sight on A1 Cole line for Bearing

H.A. Winston

Sta	Dist			Mag.
Iron R				
	300	17° 28'		
△ 1				
Point on River	143			S 1° W

Fish and Game Winchester

	+	H.I	−	Elev.
20+00				93.07
	6.80	99.87		
21+00			6.3	93.57
22+00			7.15	92.72
T.P.			6.45	93.42
	5.55	98.97		
23+00			6.00	92.97
24+00			7.2	91.77
T.P.			4.9	94.07
	4.95	99.02		
25+00			6.2	92.82
26+00			5.5	93.52
27+00			6.3	92.72
27+88			6.9	92.12
28+00			5.85	93.17
T.P.			4.40	94.62
	5.00	99.62		
29+00			7.25	92.37
30+00			7.2	92.42
31+00			8.95	90.67
T.P.			6.42	93.20
	4.05	97.25	~~7.55~~	
32+00			5.5	91.75
33+00			5.1	92.15
T.P.			3.52	93.73
	4.21	97.94		

1+25+90 Bedrock 92.5

93.02

High Point 31+10 — 93.2

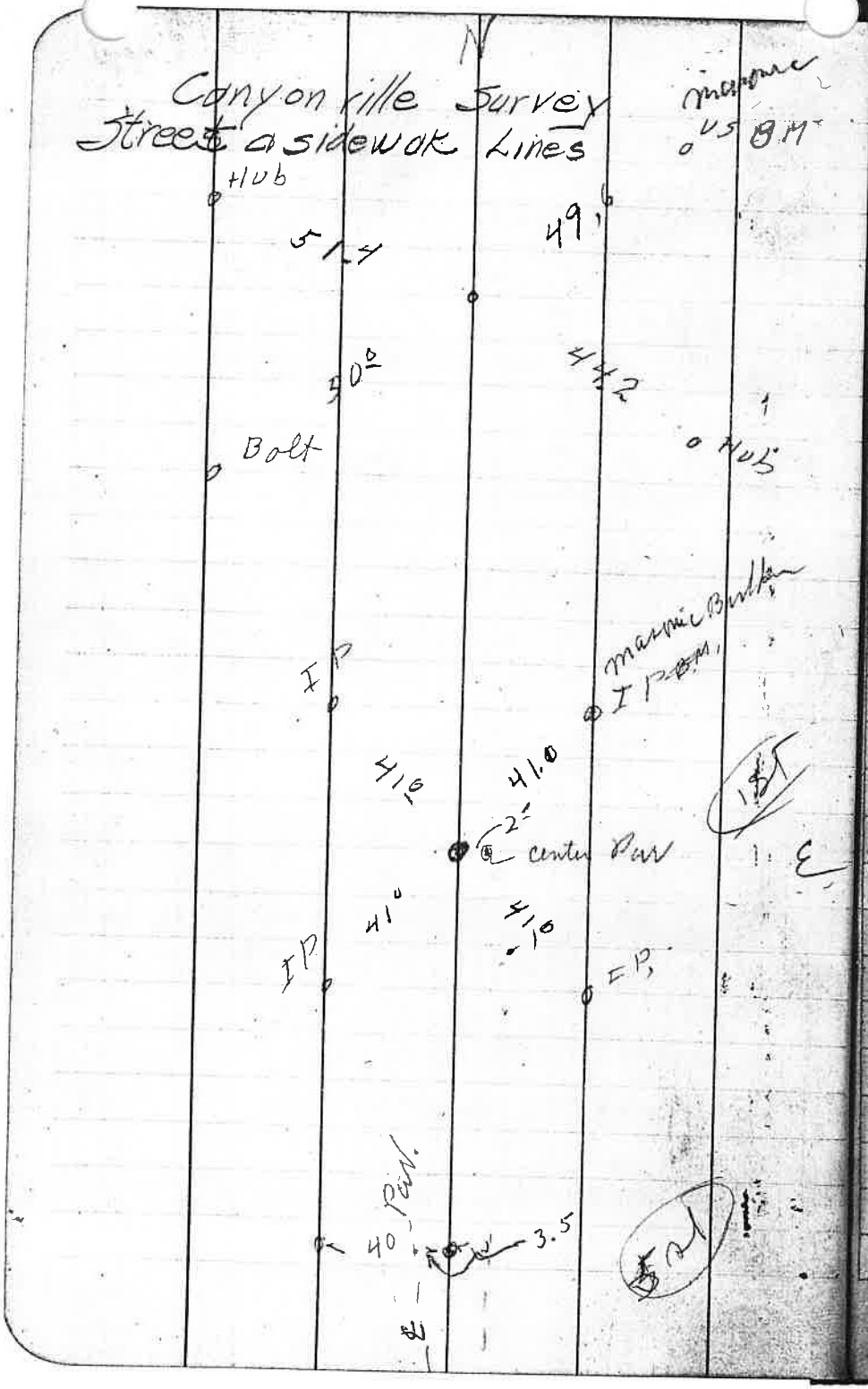
		H.I			
		97.94			
34+00				6.1	91.84
34+20				6.6	92.34
35+00				6.0	91.94
~~36+00~~				~~5.6~~	~~91.34~~
36+00				6.8	91.14
37+00				6.6	91.34
TP				6.65	91.29
	6.5	97.79			
38+00				6.4	91.39
39+00				8.2	89.59
40+00				6.61	91.19
41+00				8.9	88.89
42+00 TP				10.65	87.14
	5.45	92.59			
43+00				6.5	86.09
44+00				6.5	86.09
45+00				7.1	85.49
46+00				8.2	84.39
	5.22	89.61			
47+00				4.85	84.76
47+50				~~[illegible]~~	
48+00				12.5	77.11

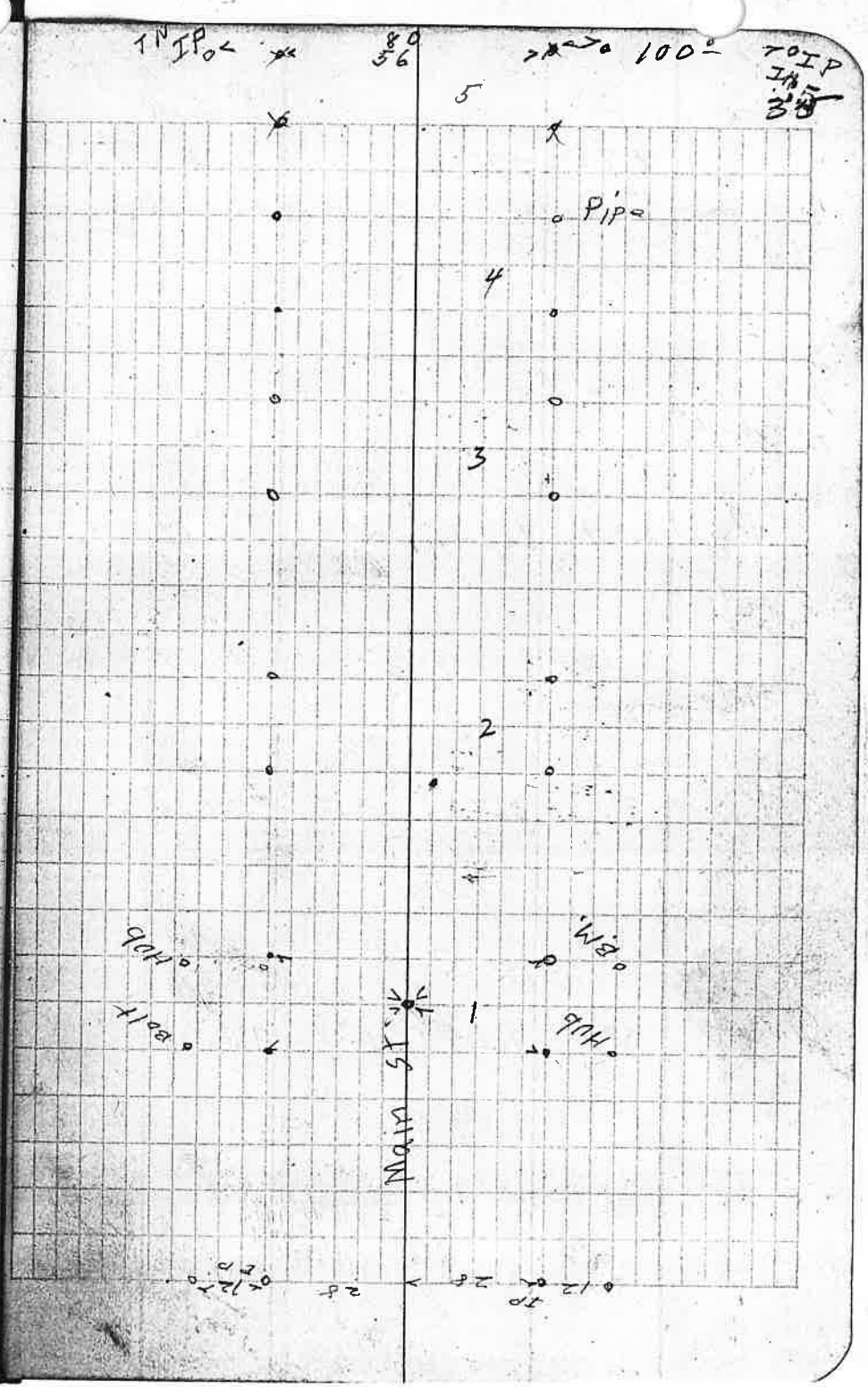
L 1.5
.9
.1
4

93.07

Top Bank

Canyonville Survey
Street & sidewalk Lines





Sta	+	±	−	Elev	
	4.76	771.76		767.00	USGS B.M.
-1+85					
S Side 1st					
N side 1st					
T.P.	3.59	769.73	5.62	766.14	
S side 2 st					
N side 2 st.					
T, P,	3.17	767.31	5.59	764.14	
S side of 3st					
N side of 3st					
T P.	3.33	765.54	5.10	762.21	
S side 4 st					
N side 4 st					
T.P.	6.92	771.94	1.52	764.02	
			3.96	766.98	

Level West	Pav. Grade	6" below East
Rod 3.46 768.30	2.23 769.53	→ 4.07 Rod 3. 767.69 Fill 1
Pipe 5.01 766.75 Ground 5.6	4.51 767.25 G 4.93	Pipe 5.68 766.08
Rod on Pipe 5.66 766.1	4.95 766.81	Rod on Pipe 6.11 765.65
4.77 764.96 Ground 5.28 764.45	4.43 765.30 4.94 764.79	5.59 764.14 6.96 762.77
4.20 763.TP 5.13 762.18	3.91 763.40 4.38 762.93	5.09 762.22 5.75 761.56
5.75 759.79 5.27 760.27	4.01 761.53 4.17 761.37	6.00 759.54 Ground 5.51 760.03

Snell Estate

Stat.	Dist.	Hor ∠	Mag.	
12				
	249 8	8°53'L	S80°W	S81-48W
#11				
	271 0	7°40'L	S88°W	S89-19W
#10				
	190 5	5°10L	N85°W	N81-39W
#9				
	261 5	18°01L	N79°W	N76-29W
#8				
	251 2	1°19'L	N61°W	N58-28W
#7				
	199 0	12°21'L	N60°W	N57-09W
#6				
	191 0	POT		
#5				
	1251 6 / 1442 6	7°53R	N45½W	N44-48W
#4				
	169 2	52°41'L	N54°W	N52-41W
#3 & Old Road				
	66 4			N
#2A				
	264 4			N
#1A				
	263 8		N2°W	N
Cor. DLC.				
	5946			

for Sumner Snell

Aug 16-1924

Bowker

Wolford

Traverse around land between old county Road and R.R. right of way Land not deeded by Edward & Laura Snell

Running along New County Road

Running along ℄ of old Road

Ran North to ℄ of Old County Road - Now abandoned

N Fence New Rd #2

Cor Joseph Putman

Stat	Dis	Hor.	Vert	Mag	
#11					
	167 3/4	R 3° 11'		S 73° E	S 70-16 E
#10					
	98 6/4	R 0° 16'		S 75 3/4 E	S 73-27 E
#9					
	232 2/4	12° 30 L		S 76° E	S 73-43 E
#8					
	84 2/4	24° 10' R		S 64° E	S 61-13 E
#7					
	372 1/4	P.O.T.			
#6					
	117 5/4	79° 45 L		S 88° E	S 85-23 E
#5	490 2/4				
	257 1/4	R 0° 50'		S 8° E	S 5-38 E
#4					
	218 2/4	L 5° 13'		S 8 1/2 E	S 6-28 E
#3 E					
	163 2/4	L 7° 05		S 2° E	S 1-15 E
#2 E					
	57 2/4	R 8° 02	+ 17°	S 5 E W	S 5-50 W
#1 E					
	39/100	R 2° R	00-00 -19° 25	S 2 1/2 E	S 2-12 E
Cor.					
	78 0/4	R 94° 00'	- 30° 10'	S 5° E	S 4-12 E
#12					

& R.R old stake

On R.R approximate Center Line found grade Stakes but no center line Hubs

brook 55 2/4

creek 133 3/4

Sec Corner 8/9/15/16

67 4/4

Stat	Dist	Hor ∠	Ver ∠	M.C.	
#1A	47 4/5	R 67°13		S	50-35 E
#17	52 1/2	L 46°06		S 69½ E	S 67-48 E
#16	51 3/5	R 10°43		S 22½ E	S 21-42 E
#15	46 9/10	R 59°30		S 34° E	S 32-25 E
#14	116 3/5	L 23°27	+2	N 86° E	N 88-05 E
#13	48 0/5	P.O.T.	-9°10'		
#12	766 4/5	R 1°48'		S 71° E	S 68-28 E
#11	814 4/5				

264 4
47 4/5
217 0

about RR

old R.R. Hub

across Elk Creek

Stat.	Dist.	Hor.*	Ver.*	M.C.

Stat.	Dist.	Hor. ∠	Vert.	M.C.	
# 11					
	119.6	0			
# 10					
	119.0	L 2°		W	W
# 9					
	200.0	R 4°		S87°W	N88W
# 8					
	200.0	L 2°		W	S88W
# 7					
	200.0	R 94-16'		S88½W W	~~S88½W~~
# 6 Cor					
	121.1	L 1°18'		S1°W	S01E
# 5					
	60.0	L 3°16		S3°W	S1-04W
# 4					
	310.6	R 25°04		S4°W	S4° 20W
# 3	3				
	104.1	L 20°44'		S20°E	S20-44E
# 2					
	75.7 93.1	R 90°28'	-22°05 -17°10	S1°W	S
# 1					
	538.5	90°28'R		N88E	N89-32E
Ex Cor					
					S
N. Line					

Weight along Line

159.0
97.3
3094
60.7
625.7
7458
1201

145.8

To be pin Corner of Sumner Snell - Puntman Land

on Bridge

10.1
58.9
47.0

7 To Cor. N88E
Corner of Joseph Puntman D.L.C.

	□ 15	Hor Ang	
23			
	157 L	L 2°	+15°
22			
	163 L	R 4°	same *
21			
	63 L		180
	100	L 2°	00
20			
	141 5		
19			
	74		+15°
18			
	77°		+15° 45
17			
	1066		
16	1548		
	↓		
15			
	172 L		
	100°		+6°
14			+10° 15
	89°		↓
13			
	1385		
12			
	82 L	0-00	
11			

12

45

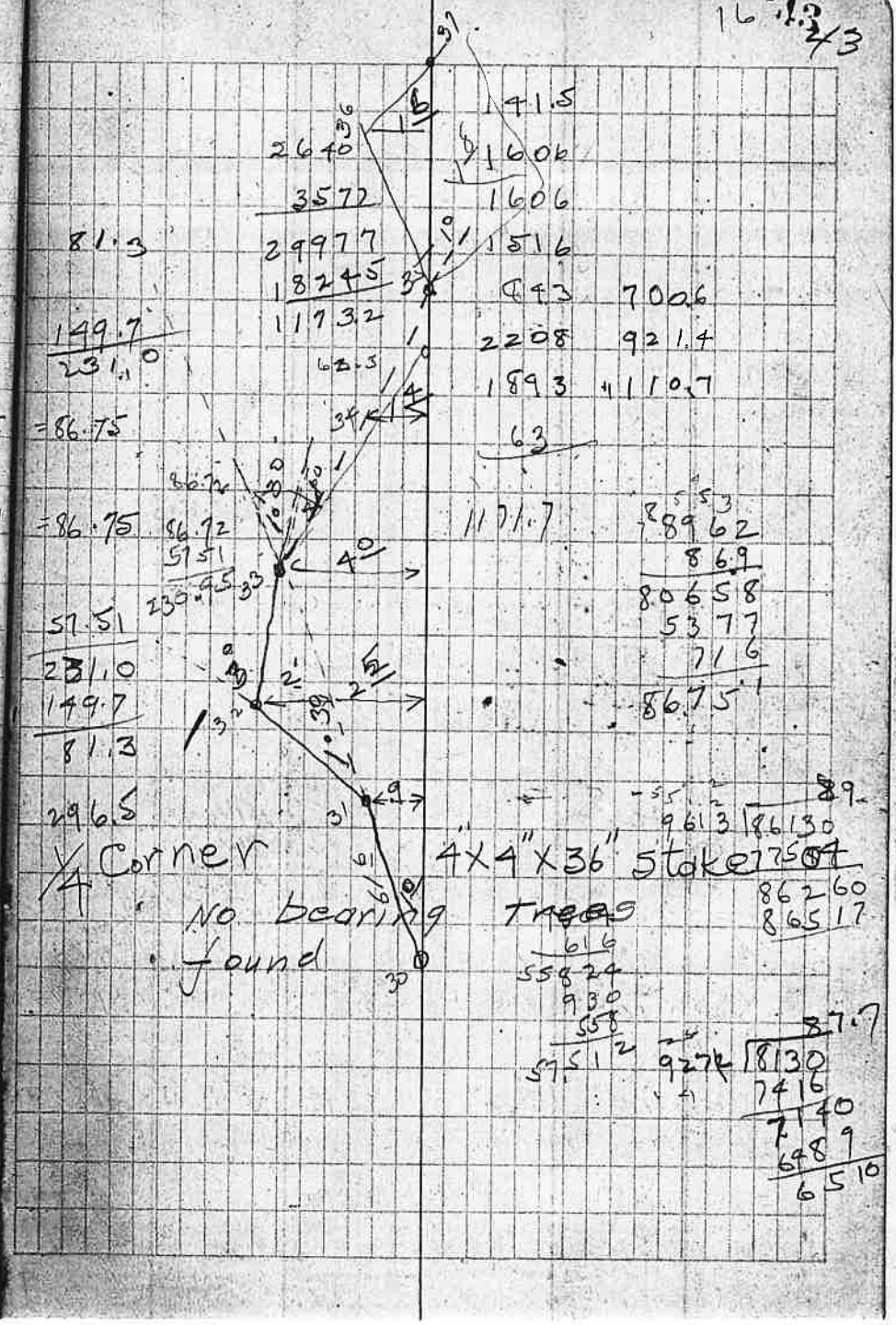
966
372
676
6743

1320
357.7
1677.7

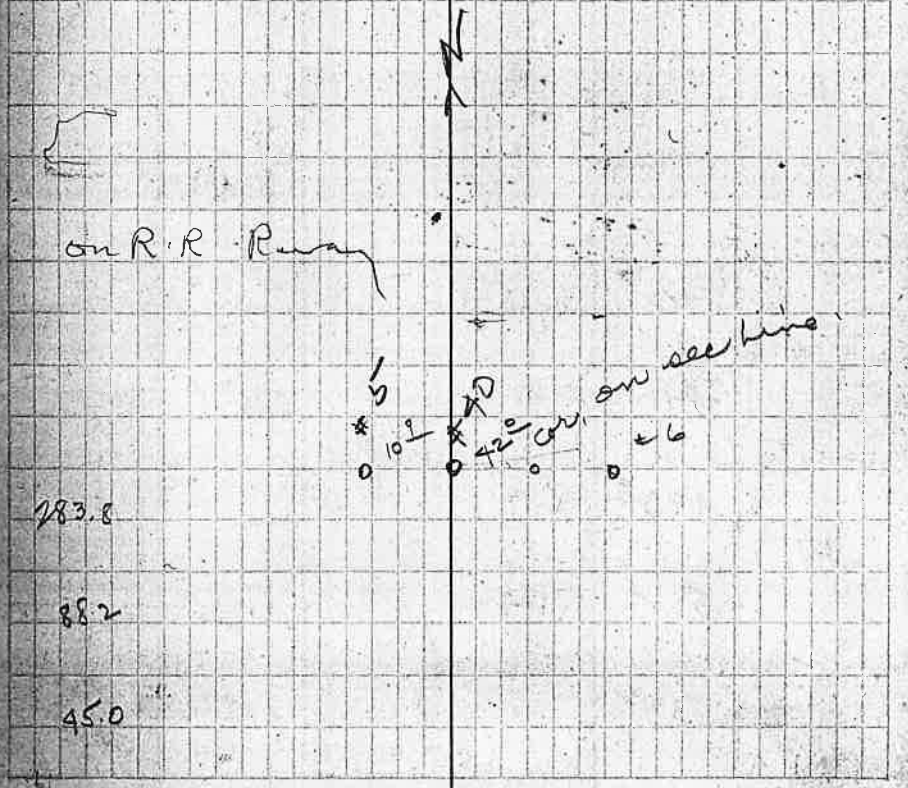
8380 8380
821 82
S.W. Cor 1385 1385
S Side 876 876
994 1273.1
1721 1496
Pentagon Cor 1548 1548
1066 1574.4
1679.1
1677?
1.4

1824.5
1679.1
145.4 to go
74.4
71.0

Stat	Dist	Hor ∠	Ver ∠	M.C.	C.C
35					
	49.9	R 2° L 1°	-25°30		N2°E
34					
	87.7	00	-22°		N9°E
33					
	154.5	R3R' R 2° L 1°30	-14°20'	N30'E	N10°E
32					
	88.95	R3°00	-16°		N0°30'E
31					
	96.8	L1°30'	-26°20	N4°W	N2°30W
30					
	61.4	L 1°	-21°30'		N1°W
29					
	76	00	00		N
28					
	300.5	R90°	+9°20'	N1°W	
27 Cor					
	63°				
26					
	190.0		+5°30		
25					
	224.3		+10°		
24					
	90.5		+2°15		
23					



# 6					
# 40		R 1° 18'			S86-39E
# 5					S85-21E
# 5'					
	101				
# 6					
40		R 93° 21			S86-39E
	406			N1½W	N
39					
	123				
38					
37	200 / 100	00	-3° 30'		N
	100'	R 2°	-28° 10'	N 2° W	N
36					
35	49	L 4°	-25° 30		

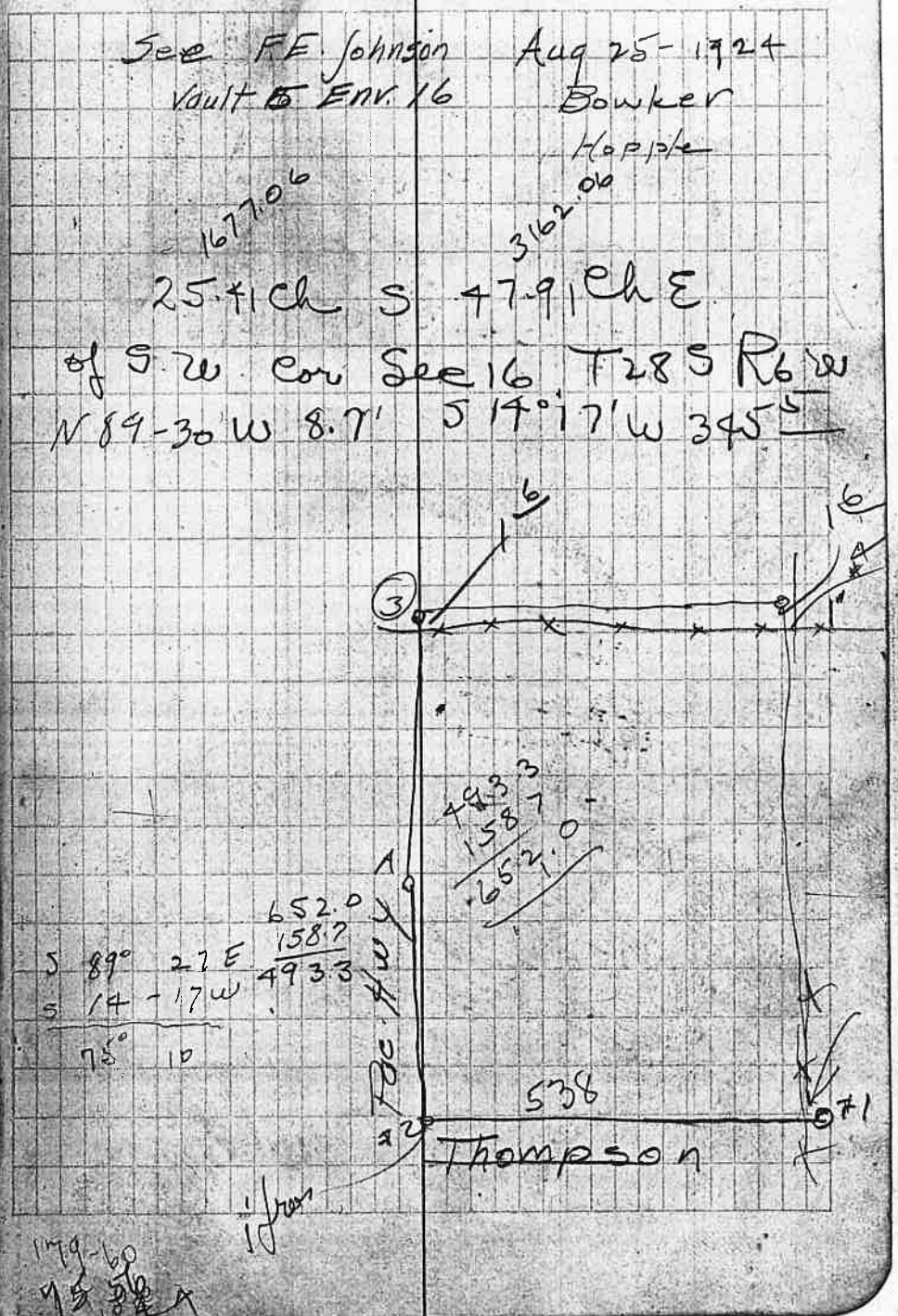


Hoppe Survey

See FE Johnson Aug 25-1924
Vault 5 Env. 16 Bowker
Hoppe

1677.06
3162.06
25.41 ch S 47.91 ch E
of S W Cor Sec 16 T28S R6W
N 89-30 W 8.71' S 14°17'W 345.5

Cor 4 A					1
	90±				
Cor 4 B					S 89-12 E
	379.5	R 75-52			
Cor 3					
A					N 14-56 E
Cor 1					S 0-48 W
	540.5	R 76°			~~S 54° 12 E~~
Cor 4 A					
	3 #91.6	R 89.11	576° E		S 75-53 E
Cor 3					
	493.3	R 19'			N 14 56 E
A					
	158.7	R 104-04	N 13½ E		N 14-37 E
Cor # 2					
	539.6		S 89°30 W		S 89° 29 E
Cor # 1					



1179-60

Stat.	Dist.	Hor.		Mag	
N.E Cor.					
	424 9/10				
# 5					
	617 6/10				
# 6					1
	155 2/10	R 89° 57			E
N.W. Cor					
# 2					
# 5					
	234 9/10	L 136-30			
# 4					
	788 8/10				
# 3					
	15 1/10 139 9/10	L 90°			E
# 2					
	79 1/10				S
# 1					
	85 8/10				S
N.W. Cor					
		L 90°			W
N.E Cor					

Vosburg

Kelly Corner

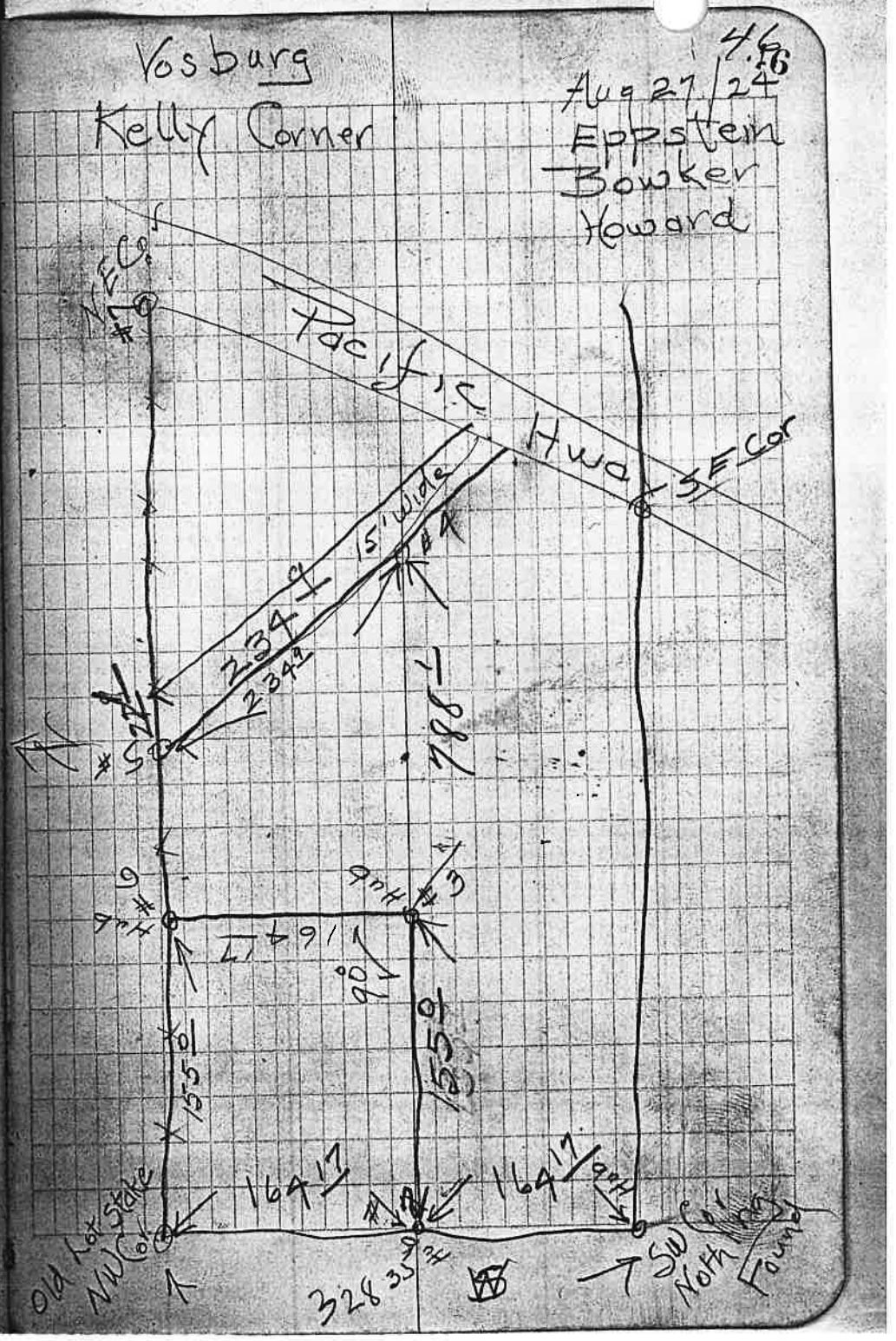
Aug 27/24

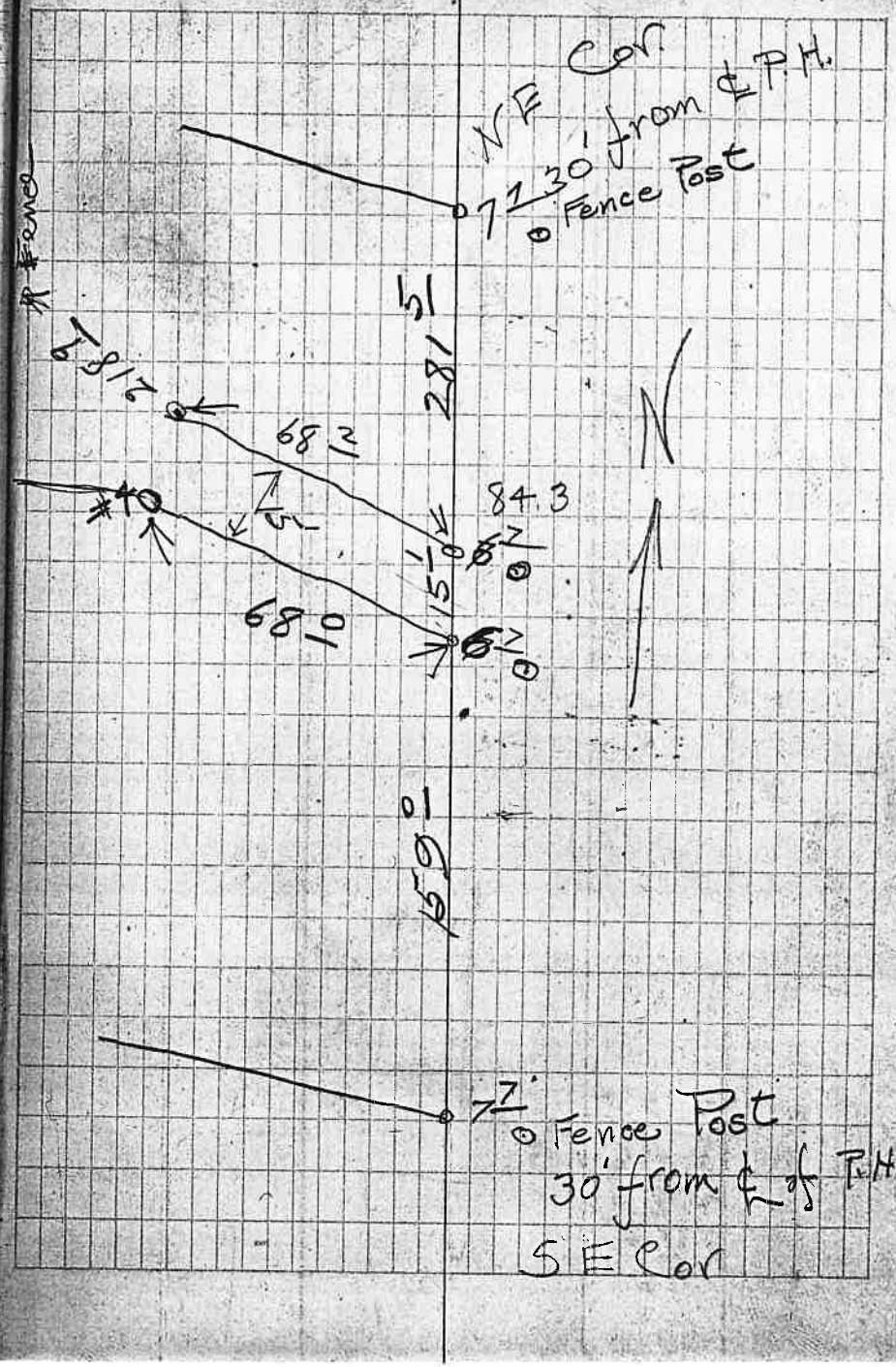
4.6.16

Eppstein

Bowker

Howard





N.E. Cor

R 134 24

S.E. Cor

878 1

L 90°

SW Cor

Ritter Lee Line

Aug 28-54
Epstein
Bowker
Howard

Kane Street

379'

168'

160°

130'

47°

Cass

278'

Oak

379'

St.

St.

Chadwick St

379'

89°

90-19
89-32
89-41

269-32
89-50

359-42

269-52
90-08

359-02

47.6
33.6
45.6
35

Jim Toney's Ditch

Sta	+	⊼	−	R	2 disp per 100 ft
0+00	3.3	103.3			100.
1+00				3.5 ↓	99.8
2+00				3.7 ↓	99.6
3+00				3.9 ↓	99.4
4+00				4.1	99.2
5+00				4.3	99.0
T.P.	5.5	106.12	2.68		100.62
6+00				7.32 ↓	98.80
7+00				7.52 ↓	98.6
8+00				7.72 ↓	98.4
9+00				7.92	98.2
T.P.				8.12	98.12
T P	4.99	103.67	7.44		98.68
11+00				5.82 ↓	97.85
12+00				6.07 ↓	97.60
13+00				6.32 ↓	97.35
14+00				6.57 ↓	97.10
T.P.	11.50	109.13	6.04		97.63
15+00				12.28 ↓	96.95
16+00				12.53 ↓	96.60
17+00				12.78	96.35
18+00				13.03	96.10
T.P.	6.76	103.57	12.32		96.81
19+00				7.72 ↓	
20+00				7.97 ↓	
21+00				8.22	
22+00				8.47	

- 3 feet below Grade

Grade 106.12 − 99 = 7.12

103.67 − 98.10 = 5.57

25 fall

109.13 − 97.10 = 12.03 + 25 = 28

103.57 − 96.10 = 07.47

7.72

Jim Torrey & Surveying — Ditch Line

Sta	↑	↑	–	R	↑
00	2.74	102.74			100
1+00				2.99	
2+00				3.24	
3+00				3.49	
4+00				3.74	
5+00				3.99	

50-0

Sept. 16-1924
Bowker

Stat	Dobbin Dist	Water Filing Ver. ∠	Horz.		
#12					
	285°		R 0°30'	S 46¼ W	S 46-58
#11					
	285°		L 0°14'	S 46 W	S 46-28
#10					
	285°		L 0°11'	S 46¼ W	S 46-42 W
#9					
	285°		R 0°38'	S 46½ W	S 46-53 W
#8					
	285°		R 46°	S 45½ W	S 46° 15 W
#7					
	135°		L 23°40'	S	S 0° 15 W
#6					
	285°		L 0°14'	S 23½ W	S 23-55 W
#5					
	285°		R 1°09'	S 24½ W	S 24-09 W
#4					
	285°		R 1°53	~~S~~ N 22½ ~~W~~ E	S 23-00 W
#3					
	285°		R 46'	~~S~~ 21° ~~W~~ E	S 21-07 W
#2					
	285°		R 21'		~~S 20-21 W~~
#1					
	285°			~~S~~ 20½ ~~W~~ E	S 20- W

Cor 30 29 / 31 32 T 28 S R 7 W

Stone = edge of Road B.T. = Oaks

Distance and Bearing of Traverse =
S25° 41'W 3843.6 feet

℄ Creek					
	90°		R 42-20	S 3½ E	S2° 43E
#17					
	285°		L 16° 30'	S 45 E	S45-03E
#16					
	77°		R 12° 31'	S 29° E	S28-33E
#15					
	285°		L 88° 03'	S 41° E	S41-04E
#14					
	210°		R 0° 05'	S 46° 30W	S46-59W
#13					
	285°		L 0° 04'	S 47° W	S46-54W
#12					

Stat. East.	Elev.					
		59.5	58.0	56.9	56.7	57.4
1+25	564.05	-4.6 / 8.9	-6.1 / 15	-7.2 / 27.1	-7.4 / 35.0	-8.7 / 40.0
		58.2	57.0	56.9	56.7	56.8
1+00	563.18	-5.2 / 10.2	-6.2 / 15	-6.3 / 25.7	-6.5 / 35	-6.4 / 40
	Same as 1+00	59.1	58.5	57.7	57.2	57.5 / 56.2
0+75	563.18	-4.1 / 9.8	-5.7 / 15	-5.5 / 20	-6.0 / 26.5	-5.7 / 35 / -5.0 / 40
		58.0	57.5	56.8	57.2	56.8 / 57.5
0+50	562.36	-4.4 / 10.7	-4.9 / 15	-5.6 / 22.5	-5.2 / 32.1	-5.6 / 35 / -4.9 / 40
		56.1	55.8	55.4	55.6	55.6 / 55.1
0+25	560.39	-4.3 / 12.1	-4.6 / 15	-5.0 / 21.2	-4.6 / 30.5	-4.6 / 35 / -3.9 / 40
		55.6	54.8	54.7	54.7	54.9 / 54.9
Same as 0+25		-4.8	-5.6	-5.7	5.7	5.6 / 4.5
0+00	560.39	12	15	21.4	27.4	35 / 40
		54.1	54.2	54.2	53.6	54.0
West (0+12)	554.18	-0.1 / 12.6	-0.2 / 15	0 / 25.6	-0.6 / 35	-0.2 / 40

25

56.66

55.33

54.00

52.67

51.33

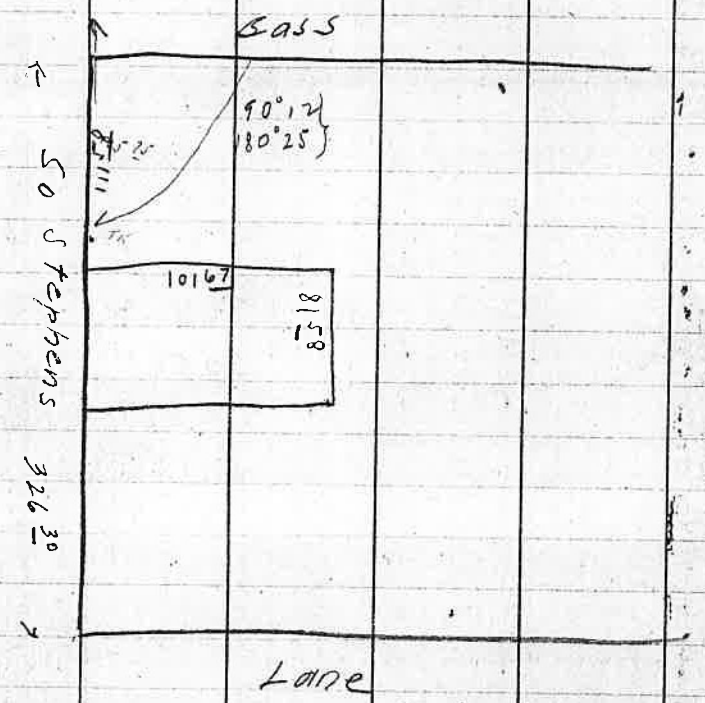
450.0

HAYNES STREET.

	+	H.I 504.83	North Curb		South Curb	S. Curb	Old Grade
0+30			9.65	495.18	9.75	495.18	495.18
0+50			8.32	496.51	8.44	496.39	496.14
0+75			6.76	498.07	6.71	498.12	497.37
1+00			4.90	499.93	4.9	499.93	498.98
1+28			2.61	502.22	2.64	502.19	501.20
1+44			0.80	504.03	1.010	503.83	501.72
T.P.			0.20	504.63			
	+10.05	514.68					
1+50			10.50	504.18	10.81	504.07	503.24
1+75			8.12	506.56	8.20	506.48	505.97
2+00			5.65	509.03	5.75	508.93	508.77
2+25			2.90	511.78	2.90	511.78	511.57
2+45			1.02	513.67	0.95	513.73	513.78

Survey for R. Foster & R. Agee

Oct. 4, 24

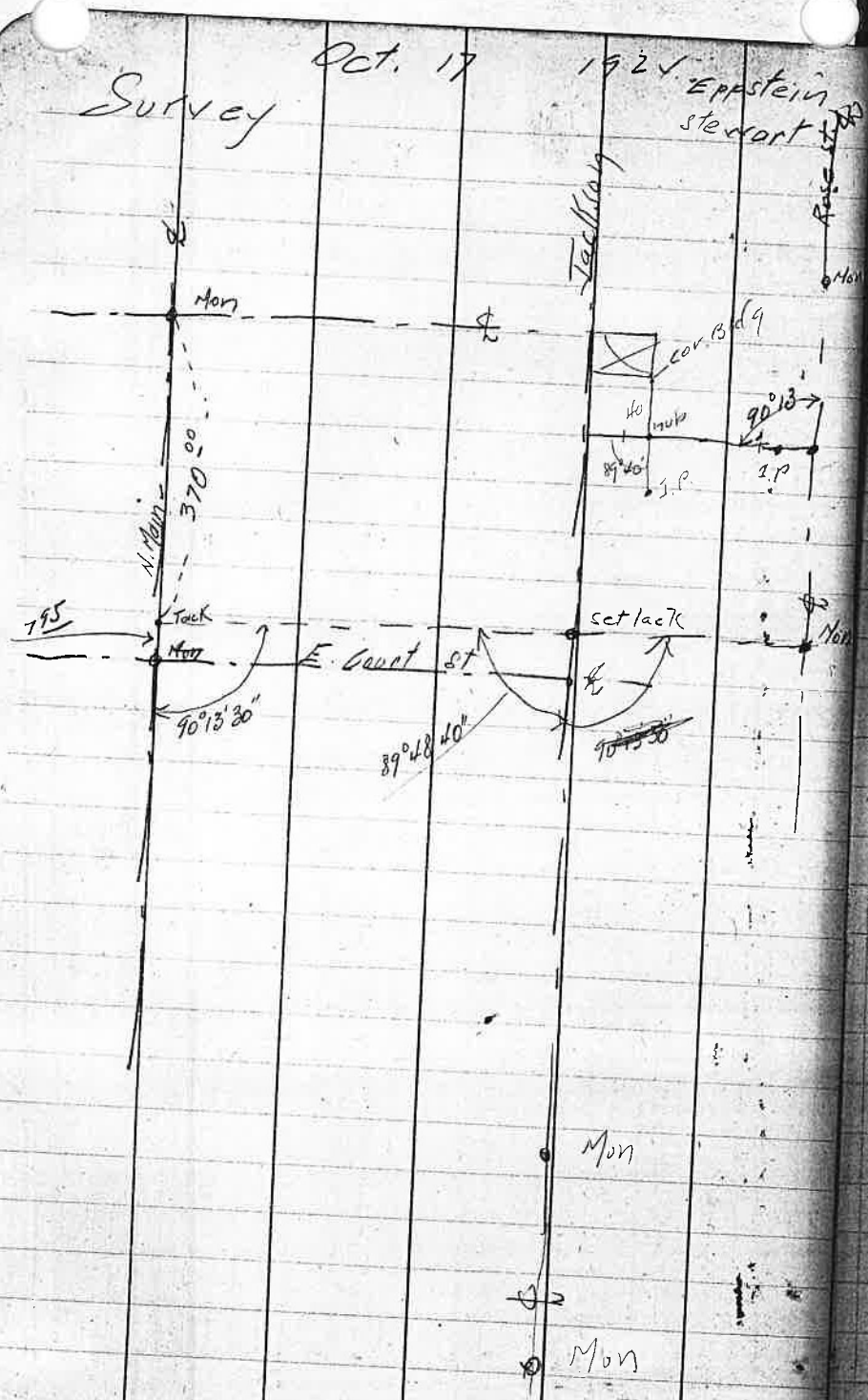


110.50
8.83
101.67

17.6
8.83

2 65
.5

Survey Oct. 17 1924 Epstein stewart



89°49

179° 37

269 26

89 48 40

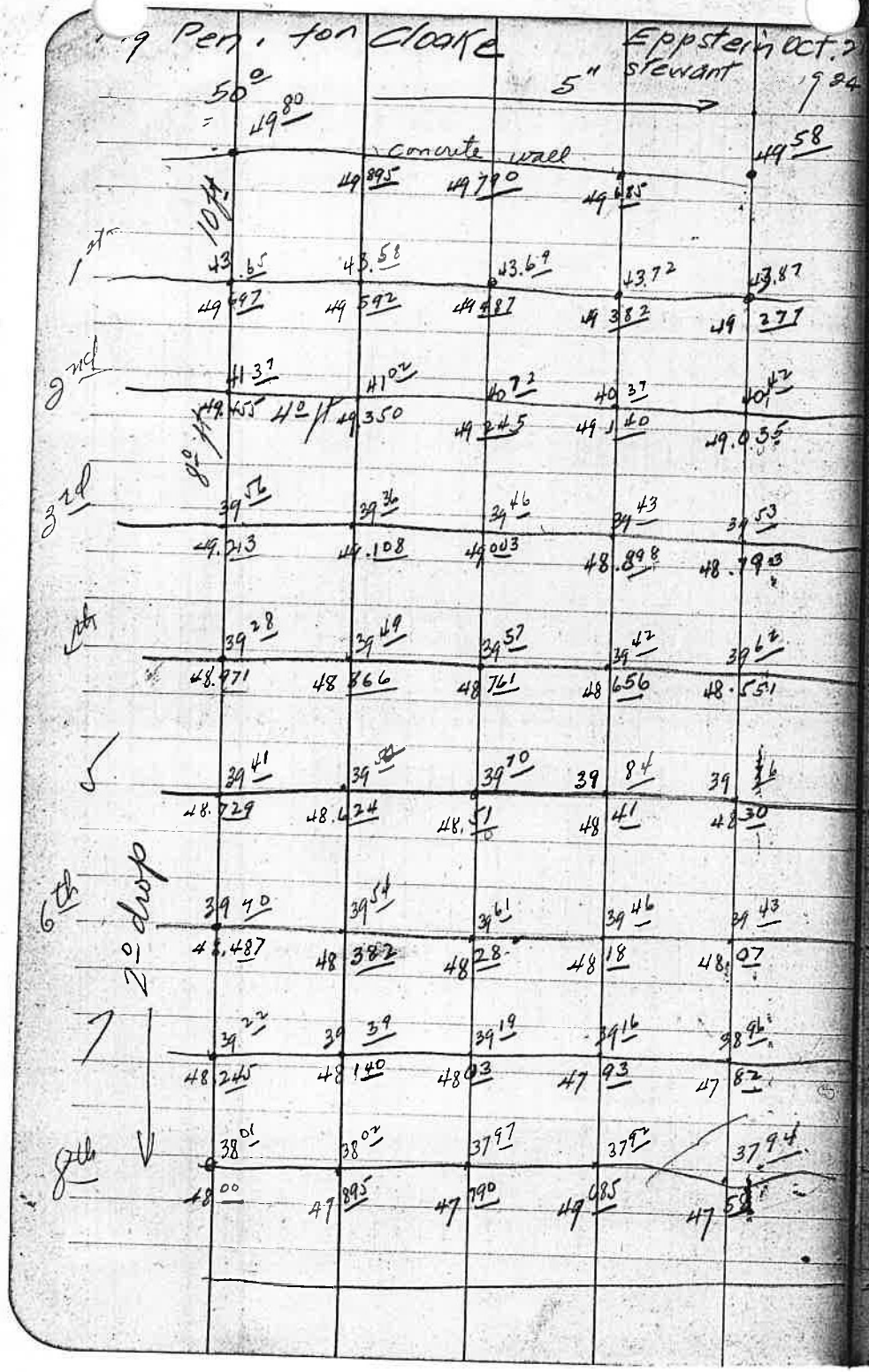
116 35

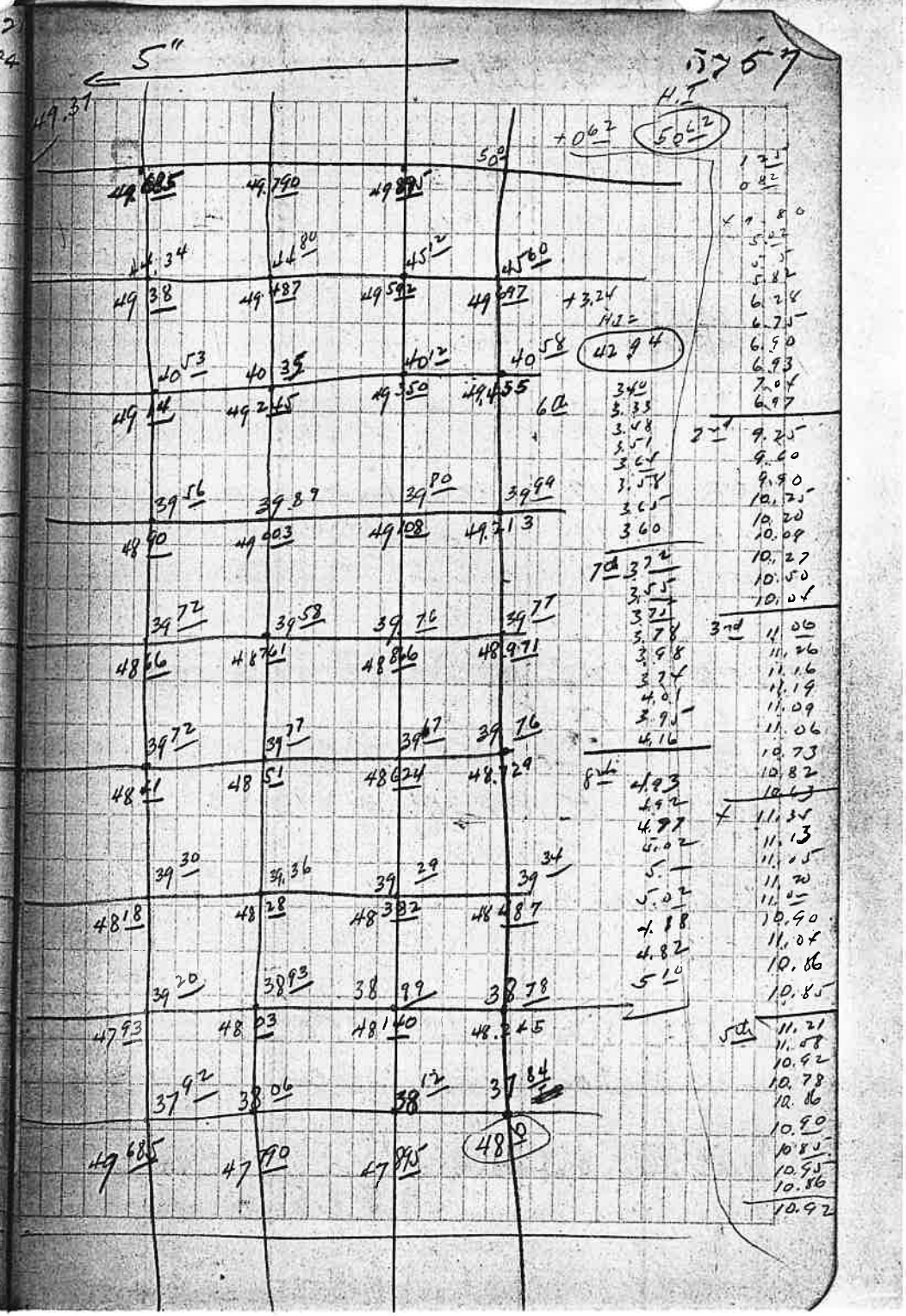
26° 22

90 13

6-66

.9 Perp. for Cloake Eppstein Oct. 2 1924 Stewart





Rast Area Paving

West Side 502.3
East " 501.8 A. 502.05

5+00	17' wide	- 1' =	16'
4+00	17' wide	- 1' =	16'
3+00	17' "	- 1' =	16'
2+00	17 "	- 1' =	16'
1+00	17 "	- 1' =	16'
0+00	17 "	- 1' =	16'

Sq. Yd. Pavement = 892.53
1 Catch Basin
1 Manhole lowered.

Walk West Side 503.8
East " 503.8

Area less on walk 2' x .5 on East
1.5 x .5 on West

~~2013.45~~ Sq ft.
4028.65

1860

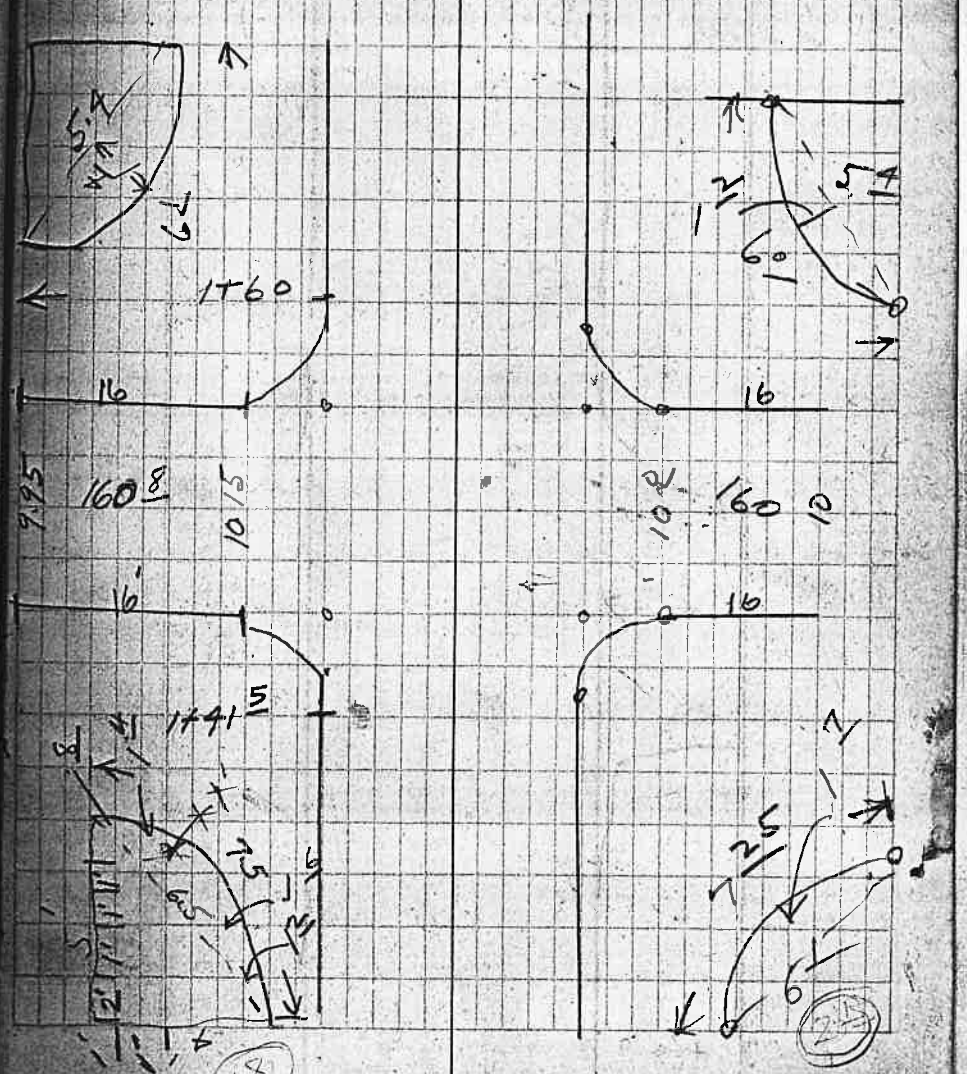
E	4th	57	N.	0-7 29/24
	3+00		20.15	404 00
	2+80		20.25	402 5
	2+60		20.0	401 00
	2+40		20.1	402 00
	2+20		20.1	403 00
	2+00		20.2	403 00
	1+80		20.1	402 00
	1+60		20.1	371 85
	1+41 5		20.60	431 07
	1+20		20.00	400 05
	1+00		20.05	400 05
	0+80		20.00	399 50
	0+60		19.95	400 00
	0+40		20.05	400 50
	0+20		20.0	401 00
	0+00		20.1	
			Sq. ft.	6021 52
			Sq yds	669 06

Curb - 627.0'

N

Alley Intersections 3+13

— 3+00 — End Precise Meas



Roy Hansen

1 Street Monument 50% 15

9+08

75' Curb

45'

15

5' Curb

3+00

+48 Dec 30

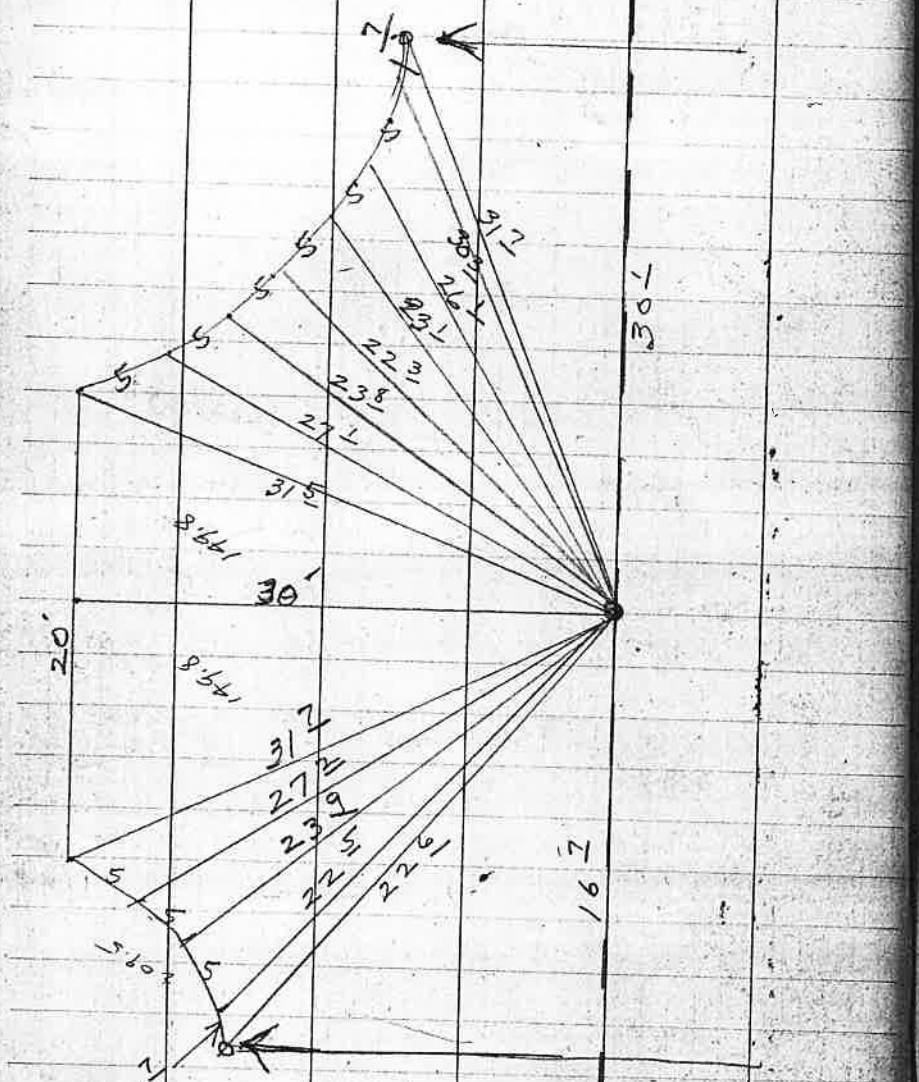
Alex 10 x 20

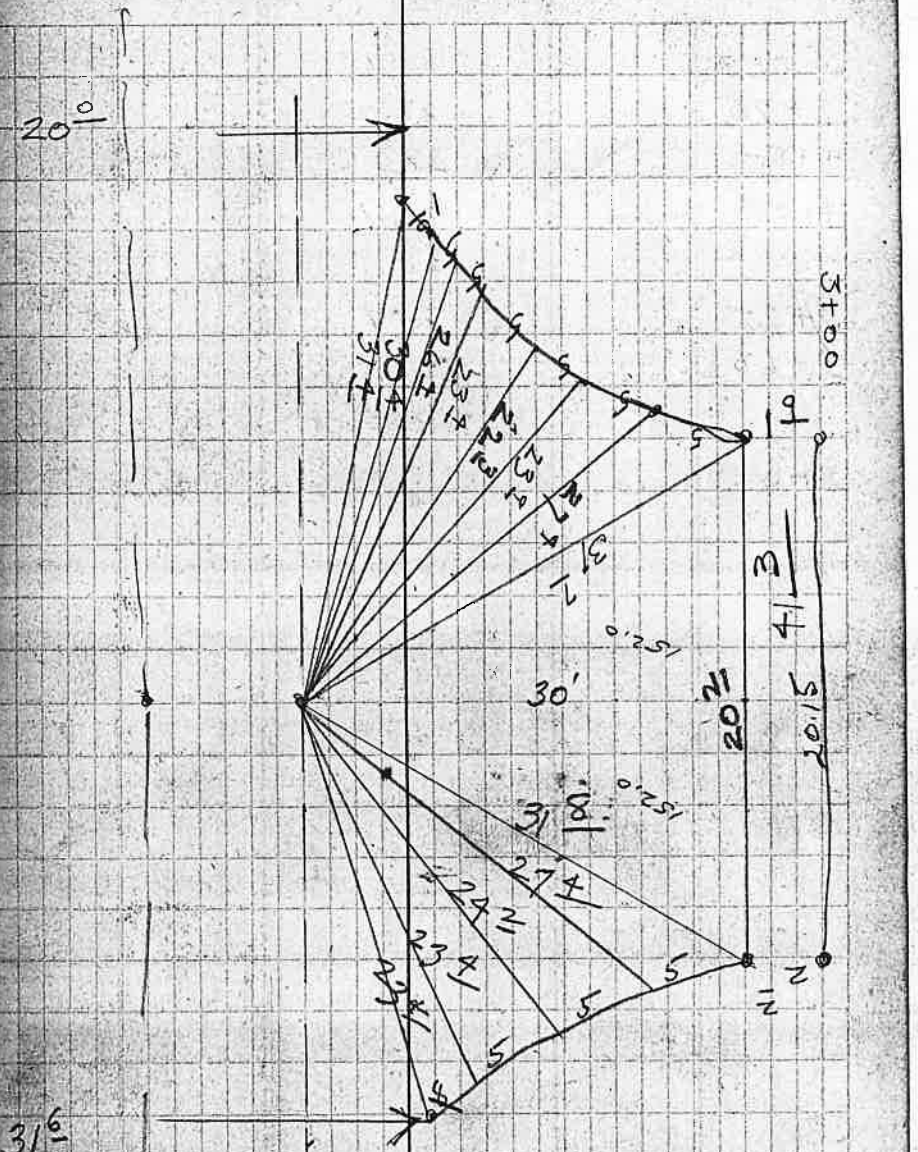
10 x 5

4 Corners

34' 6" Pipe

East Fourth St · Dec. 30





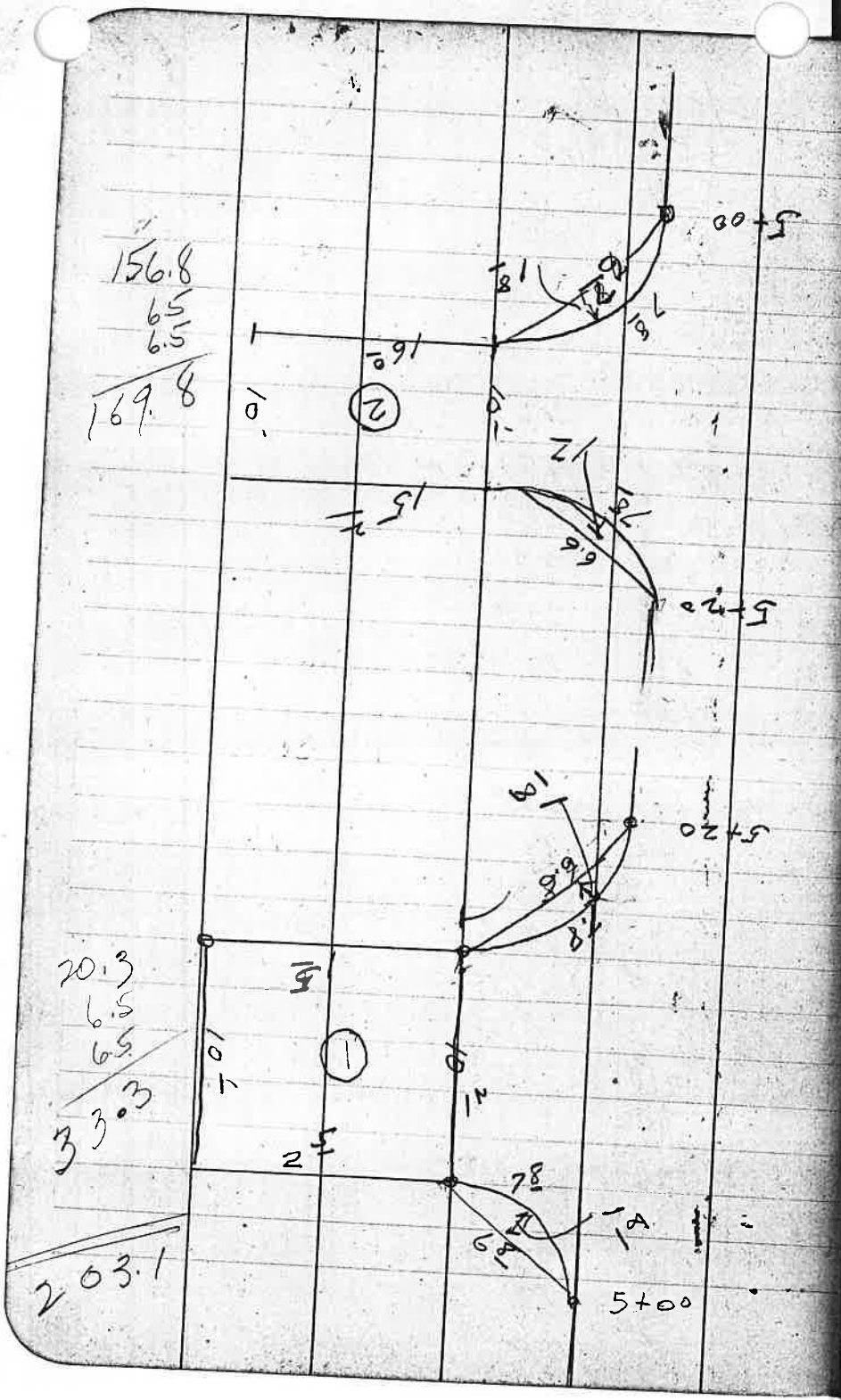
9) 217140 sq ft
24126 sq. yds

East 4th St. Dec. 30/24

5+00	20.1	503.7
4+75	20.2	503.7
4+50	20.1	502.5
4+25	20.1	502.5
4+00	20.1	502.5
3+75	20.1	300.75
3+60	20.0	
	Intersection	217.40
3+00		498.85

280' St. Curb
→ 615.6.5

Sta	HI	V Angle Left	Dist Out Left	Ele	Dist	V Angle Right	Dist Out Right	Elev	Dist.
54+01	5	31°-30	11.5	6.2	10.0	18°	15.0	5.7	14.3
	"	41-00	17°	11.1	12.8				
54+50	5	28°	10.8	5°	9.5	19-30	14.4	4.8	13.7
	46-30	28°		20.3	19.3				
55+00	5	37°	10.8	6.5	8.6	27°	11.8	5.3	10.5
		48°	21.7	16.1	14.5				
55+50	5	51°	29.5	22.9	18.7	32°	11.3	6.0	9.6
55+75	4.5 L R	55°	37.0	30.3	21.7	41°	12.5	8.2	9.4
						30°	27.7	14.8	24.0
55+80	3	55-	29.1	24.3	17.0	41	12.3	8.1	9.3
						33	29.0	15.7	24.3
56+00	4.5 R	44	30.2	21.3	22.1	24	11.2	14.6	10.2
						37°	37.6	22.6	30.1
56+25	4	50-30	33	25.5	21.0	58	11.2	9.5	5.9
						39°	30.2	19.0	23.5
56+50	4	47	31.6	23.1	21.5	56°	23.6	19.7	13.3
						47-30	33.0	25.8	23.6
56+75	5	45-	49°	34.6	34.6	48°	25.7	19.1	17.2
						44°	38	26.4	27.3
57+00	7	50°	40°	30.6	25.7	46	24	17.3	16.7
						35°	46	26.4	37.7
57+24	5	36	40°	23.5	32.4	50	25.5	18.0	15.1
						39	42.5	26.7	33.0

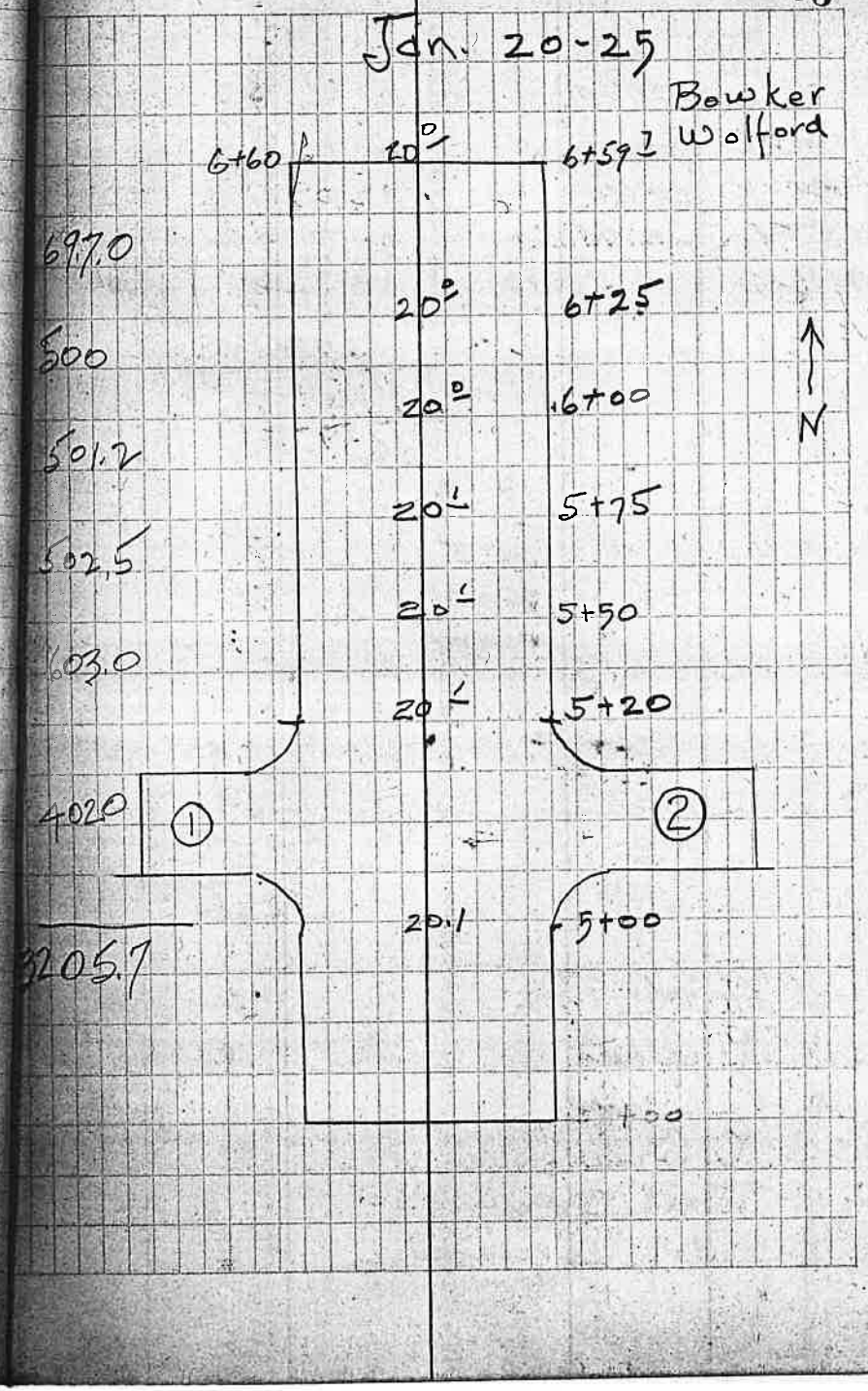


E 4th St.

66
66

Jan. 20-25

Bowker
Wolford



	East	4th St.	Recap.
0+00 to	3+00	6021	52
3+60 to	500	281.5	6.5
5+60 to	6+60	3205	7
1st St.	Intersection	21 71.	40
Alley	—	342.3	
Alley	✓	203.1	
		9 14759	67
		1639.96	

Curb.	0+00	141.5	283.0
	1+60	3+00	280.0
	3+60	5+00	280.0
	5+20	6+60	279.7
	Intersection		41
	Alley	—	64.0
	Alley	✓	35.2
			1226.0

6" Vitrified Pipe	34.0	feet
5' R. Corners	8.	
20' R. Corners	2	Complete
20' R. Corners	2	52% Comp
1 Street Monument		
1 Catch basin		

6.7
.37

Excavation

Earth	1519.5	cu yds
Rock	442.8	cu yds

Route Sta	+ Lane	Side Walk	—	Rod Elev	Elev	Cut-Fill		
	1.23	464.63			463.4			
			7.54	457.09				
T.P.	3.64	460.73						
on Top Rail				4.25	456.48			
T 2+83.25		Tack		6.16	454.57	455	F .93	1.14
2+75		Tack		6.86	453.87	455.0	F 1.13	1.34
T.P.	0.86	454.16	7.43		453.30			
2+50				2.70	451.46	452.91	F .45	.66
2+25				3.65	450.51	450.78	F .27	.48
2+00				5.01	449.15	448.73	C .42	.21
1+75				6.32	447.84	446.88	C .96	.75
1+50				7.92	446.24	445.21	C 1.03	.82
1+25				9.10	445.06	443.73	C 1.33	1.12
1+00				10.69	443.47	442.43	C 1.04	.83
~~T.P.~~	3.90	446.13	11.93		442.23			
0+75				4.36	441.77	441.31	C .46	.25
0+50				6.23 40	~~439.90~~	440.38	~~F .48~~	~~.67~~
0+25				5.86	440.27	439.64	C .63	.42
0+12		on end Curb		7.1	439.03	439.0	—	
0+00		on Hub		6.83	439.30			
0+00		on Curb		7.21	438.92			

Grade on North side of Douglas St.

C 1.52 = 3+83.25

← 12 + 10 1/4 × 6 = 12

Rain 1/4" to Foot
2 1/2" rise

6.8
1.18

	+	South H.I.	-	Side	
Top. Cut					
	11.25	450.25			439.00
1+75 N.			2.43		47.82
1+25			7.80		42.45
1+50			6.98		43.27
1+75			4.81		45.44
2+00			2.08		48.17
2+18	T.P.		0.39		49.86
	5.23	55.09			
2+50			4.20		50.89
2+75			1.29		53.80
2+75 N.			1.24		53.85

Douglas St

69

Grade				
				+0.21
4373	F	1.28		1.49
4521	F	1.94		2.15
4688	F	1.44		1.65
4873	F	.56		0.77
5078	F	.92		1.13
5291	F	2.02		2.23
5500	F	1.20		1.41

E. 4th St,

70

Grade, Cut 7.25 See Page 64 Book 24 B

Mar 2 - 1925
Bowker
Creor

Stat.	+	H I	-	Elev.
~~E~~ 4+00				76.14
	0.08	576.22		
Monu.			9.17	67.05
	5.68	72.73		
3+60 W			4.46	68.27
End Int. N.			6.02	66.71
End Int. S.			6.87	65.86
3+00 W			6.65	66.08
3+60 E			4.51	68.22
Int. N.			3.28	69.45
3+00 E			6.68	66.05
	5.78	71.83		
Int. S.			2.60	69.23
Rad. Pt.			11.19	60.64

68.00

66.00

68.00

66.00

NW. Cor Int. ~~4th~~ 20' Rd N.

Sta | + | Int | − | Elev

3.81 | 487.98 | | 484.17

TP. | 11.77 | 499.57 | 0.18 | 487.80

TP | 11.71 | 511.07 | .21 | 499.36

L 5.33 / 10 → 505.74 | 0+00 6.44 → 504.63 C | R 7.87 / 10 → 503.20

505.92 | 5.15 / 10 | 0+10 6.15 → 504.92 C | 7.47 / 10 → 03.60

→ curb | 4.77 on curb / 10 → 06.30 | 20 5.23 → 505.84 C | 5.77 on curb / 10 → 05.30

→ curb 06.43 | 4.64 / 10 | -30 5.16 → 505.91 C | 5.15 on curb / 10 → 05.92

509.4 | 17 / 30 | 509.1 2.0 / 21. | 508.2 2.9 / 15.5 | 07.5 3.6 / 10 | 0+50 4.1 → 01.0 C | 06.7 4.4 / 10 | 06.2 4.9 / 13 | 05.6 5.5 / 30

4+75

2.34

12.98 | 521.71 | 508.73

0+75 | 511.2 0.51 / 30 | 510.96 10.75 / 19.48 | 510.3 11.4 / 10 | 509.7 12.0 C | 509.4 12.3 / 10 | 509.1 12.6 / 15.5 | 508.5 13.2 / 30

1+00 | 514.4 7.3 / 30 | 514.0 7.7 / 19.1 | 513.5 8.2 / 10 | 513.08 8.63 C | 512.8 8.9 / 10 | 12.6 9.1 / 15.5 | 12.1 9.6 / 30

1+25 | 517.5 4.2 / 30 | 517.1 4.6 / 20 | 516.5 5.2 / 10 | 16.05 5.66 C | 515.7 6.0 / 10 | 15.5 6.2 / 15.3 | 14.9 6.8 / 30

1+50 | 20.7 1.0 / 30 | 20.0 1.7 / 24.9 | 19.7 2.0 / 10 | 18.86 2.85 C | 18.6 3.1 / 10 | 19.0 2.7 / 15.3 | 19.2 2.5 / 30

1+60 | 21.2 +0.5 / 30 | 21.5 0.2 / 22.6 | 21.3 0.4 / 16.2 | 20.9 0.8 / 10 | 20.27 1.44 C | 20.0 1.7 / 10 | 19.6 2.1 / 19.7 | 19.8 1.9 / 30

71

N. | 3+82.6 End Pav | 3+78.5 mon | East | 3+62.6 | Fourth St | 3+46 | End of Pavement

2 | 0+30 End Pavement | 0+20 | 0+10 mon | East | 0+00 | 3rd St.

Sta	+	℄	−	Elev
		521.71		
TP	10.31	531.56	0.46	521.25
1+70	523.2 / 8.4 / 30	22.8 / 8.8 / 21.9	28.1 / 9.5 / 10	21.8 / 9.8 / C	21.8 / 9.8 / 10	21.5 R / 9.8 / 16.2	20.6 / 11.0 / 21	20.2 / 11.4 / 30
1+80	25.0 / 6.6 / 30	24.8 / 6.4 / 11.1	24.7 / 6.9 / 15.5	24.3 / 7.3 / 10	24.0 / 7.6 / C	23.6 / 7.8 / 10	23.7 / 7.9 / 20	22.3 / 9.3 / 30
1+90	28.0 / 3.6 / 30	27.3 / 4.3 / 21		26.5 / 5.1 / 10	26.1 / 5.5 / C	26.2 / 5.4 / 10	26.0 / 5.6 / 20	25.6 / 6.0 / 30
2+00	30.4 / 1.2 / 30	30.0 / 1.6 / 28	29.4 / 2.2 / 21	29.0 / 2.6 / 10	28.68 / 2.88 / C	28.6 / 3.0 / 10	28.6 / 3.0 / 21	28.2 / 3.4 / 30
						0.16	~~521.55~~ 531.40	
TP	10.32	541.72 ~~531.87~~						
2+25	35.4 / 6.3 / 30	35.0 / 6.7 / 22		34.5 / 7.2 / 10	34.2 / 7.5 / C	34.1 / 7.6 / 10	33.7 / 8.0 / 17.7	33.4 / 8.4 / 30
2+50	41.7 / 0.0 / 30	41.5 / 0.2 / 22	41.5 / 0.2 / 14.9	40.9 / 0.8 / 10	40.87 / 1.35 / C	39.8 / 1.9 / 10	39.6 / 2.1 / 17.3	39.4 / 2.3 / 30
						0.88	~~530.99~~ 540.84	
TP	11.85	~~552.69~~ ~~542.84~~ 552.81						
2+75	47.7 / 5.0 / 30	47.3 / 5.4 / 22	46.6 / 6.1 / 10	45.66 / 7.03 / C	45.2 / 7.53 / 10	44.5 / 8.2 / 16.0	44.2 / 8.5 / 30	
						0.68	~~542.16~~ 552.81	
T.P.	12.14	564.15 ~~554.34~~						
3+00	54.7 / 9.5 / 30	53.3 / 10.9 / 22	52.1 / 12.1 / 10	52.4 / 11.8 / C	52.3 / 11.7 / 10	53.2 / 10.8 / 20	54.6 / 9.5 / 30	
3+10	56.2 / 7.9 / 30	55.8 / 8.4 / 22	55.3 / 8.9 / 10	54.93 / 9.3 / C	54.8 / 9.4 / 10	55.2 / 9.0 / 20	55.5 / 8.7 / 30	

Sta	+						
		564.15 ~~557.30~~					
3+20	58.1	57.7	58.2	58.3	57.8	57.8	58.2
	58.1 6.1 / 30	6.1 / 22.9	6.5 / 17.6	6.9 / 16	5.9 / 10	6.3 / C	6.4 / 10	6.4 / 20.5	6.2 / 30
3+00	60.9	60.7	61.0	60.97	61.2	60.5	57.9
	3.3 / 30	3.5 / 20.4	3.2 / 10	3.1 / C	3.0 / 16	3.6 / 24.2	6.3 / 30 on fill
3+40	64.1	63.7	63.7	63.60	63.5	63.5	63.2
	0.1 / 30	0.5 / 23.1	0.5 / 10	0.55 / C	0.7 / 10	0.7 / 19.5	1.6 / 30
				0.82		~~553.48~~ 563.33	
T.P. on Parent 3+46	7.64	570.97 ~~561.12~~					
	on Curb	56.58		65.99		65.74 on Curb	
		4.39 / 15.0		4.98 / C		5.23 / 16.5	
3+62.6		on Parent		on Curb			
		3.35 / 14.5		3.81	4.54	66.43	
		69.62		67.16	7.65		
3+78.5							
	on Curb	3.09		3.6	3.97	on Curb	
	67.88	15.5		67.91	15	67.00	
3+92.6							
	On Curb 1.66 / 19.31			on Parent 2.06 / C		1.86 on Curb / 10	
				68.91		69.11	

7.14

Roberts

Line

85.68

Cobb

369.4

89.68

369.4
50.0
8)319.4
39.93' width lot

265.8
66.0
2)199.8
99.9' Length

Grimm 10f

265.8			F. bar	S.W. Cor	S.E Cor	N.W. Cor	N.E. Cor	S.E Cor	
99.9'			+ 13.25	- 9.15	- 7.05	- 7.70	- 5.70	- 7.07	
25	4.30	5.93	39.93						

Hayward 265.6

89° 59'

369.4 S Jackson

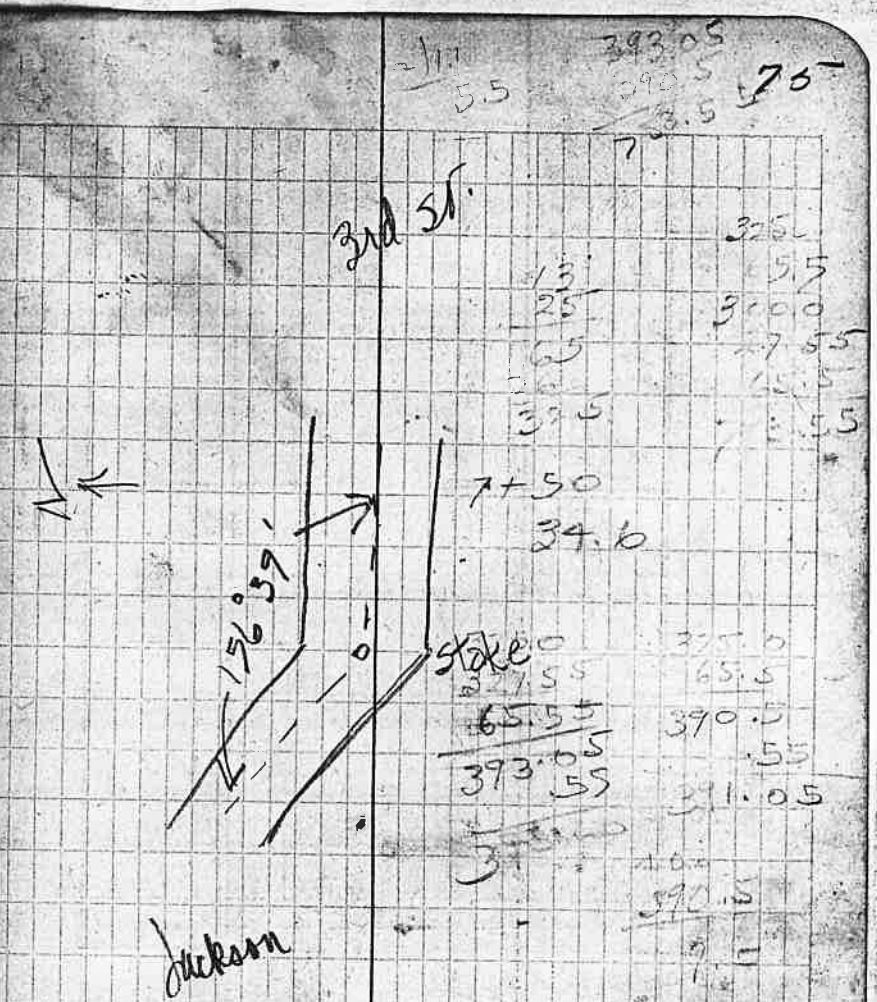
90° 07

Second St. North.

Mon. Third Ave N. on W 1st St.

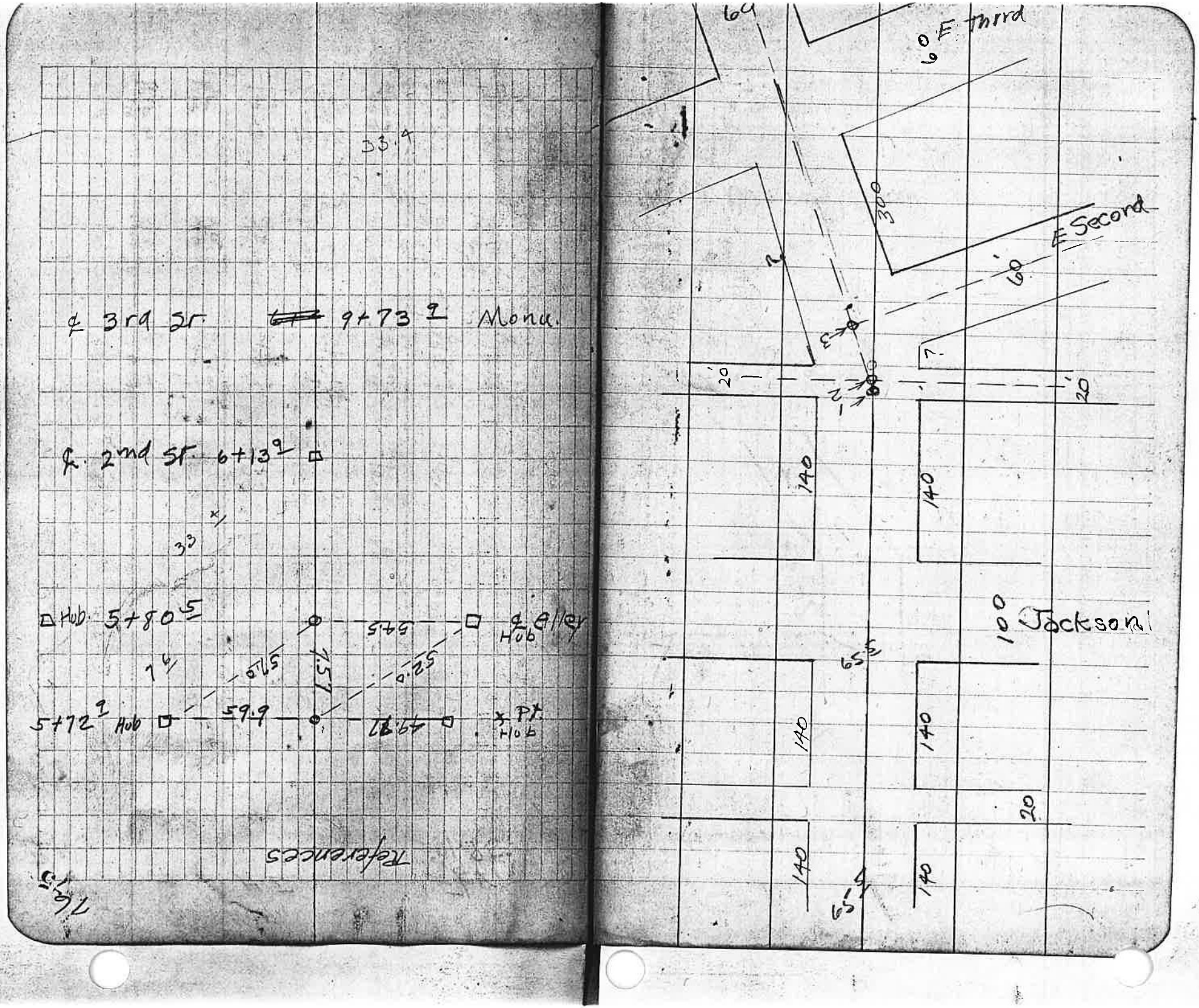
784.6 + 312.3

Mon. First Ave No on W 1st St.



Error thrown between 2 & 3 Ave N

390.5 to Intersection of 2nd Ave.


33.9
℄ 3rd St. 9+73 Mon.
℄ 2nd St. 6+13
33
Hub 5+80
℄ Alley
Hub
5+72
Hub
59.9
49.81
PK
Hub
References
64
E Third
300
E Second
60
20
140
Jackson
65
100

SE. Cor Jackson St. 2nd Ave. N

April 23, 1925

Sta.	Inst. Ht.	+	North H.I	−	South Elev
B.M.		2.30	504.15		501.85
0+00				6.3	497.85
N.					
		99.65	0+10	97.85	97.20
		5.10		6.30	6.95
		37		0	32
		98.63	0+29	97.85	99.90
		5.52		6.30	6.25
		14.0		0	10.3
		00.1	99.1	98.7	0+50
		4.0	5.0	5.4	6.0
		30	20	10	0
				98.1	
		98.0	97.7	96.8	
		6.1	6.4	7.3	
		10	20	30	
		99.9	99.6	99.3	0+75
		4.2	4.5	4.8	5.3
		30	20	10	0
		98.3	97.4	97.2	
		5.8	6.7	6.9	
		10	20	30	
		00.3	00.1	99.7	1+00
		3.8	4.0	4.4	4.8
		30	20	10	0
		99.1	98.2	97.8	
		5.0	5.9	6.3	
		10	20	30	
		00.5	00.0	99.7	1+25
		3.6	4.1	4.4	4.6
		30	20	10	0
		99.3	98.3	97	
		4.8	5.8	6.2	
		10	20	30	

00.7	00.1	99.9	1+50	99.6	98.9	98.6	97.8
3.7	4.0	4.2		4.5	5.2	5.5	6.3
30	20	10		0	10	20	30
00.4	99.7	99.7	1+70	99.4	98.9	98.1	97.9
3.7	4.9	4.4		4.7	5.2	6.0	6.2
30	20	10		0	10	20	30
Sondadr 00.7	99.6	99.2	1+90	99.0	98.6	98.0	97.7
3.43	4.5	4.9		5.1	5.5	6.1	6.4
30	20	10		0	10	20	30
00.79	99.8	99.4	2+00	98.8	98.5	98.1	97.9
3.36	4.3	4.7		5.3	5.6	6.0	6.2
30	20	10		0	10	20	30
00.46	99.8	99.1	2+25	99.0	98.6	98.3	97.9
3.19	4.3	5.0		5.1	5.5	5.8	6.2
30	20	10		0	10	20	30

5/4/15

	01.10	00.4	99.4	2+50	98.8	98.2	97.7
	3.05	3.7	4.7	5.0	5.3	5.9	6.4
	30	20	10	0	10	20	30
				99.1			
Walk	01.51	01.1	99.5	2+75	98.7	98.3	97.7
	2.64	3.0	4.6	99.2	5.4	5.8	6.4
	30	20	10	4.9	10	20	30
				0			
Concrete	02.28	01.7	99.8	3+00	99.0	98.8	98.7
	1.87	2.7	4.3	99.5	5.1	5.3	5.4
	30	20	10	4.6	10	20	30
				0			
Dr.	02.89	01.7	00.5	3+20	99.8	00.3	98.5
	1.26	2.4	3.6	00.0	4.3	3.8	5.6
	30	20	10	4.1	10	2.0	30
				0			

South

	01.38	3+30	Paving			
	2.77	01.01	00.90			
	13.0	3.04	3.25			
		10	11.3			
	02.00	3+42	Pave			
	2.15	00.98	00.55			
	18.0	3.17	3.60			
		0	19.7			
		3+50				
		00.94				
		3.21				
		0				

7.8.72

		3+79	3			
		01.50				
		2.65				
		0				
		4+00				
		01.90				
	24.1	3.25		2.50		
		0		24.1		
		4+17	5			
		01.76		01.65		
	16.9	2.39		2.50		
		0		17.2		
	02.75	4+29		02.29		
	1.40	02.40		1.86		
	12	1.75		12.1		
		10				

B.M. 501.85

+ 9.96 HI = 511.81

	03.57	03.4	05.4	4+50	04.9	04.3	03.7
	8.24	8.4	66.4	05.2	6.9	7.5	8.1
	17.7	12.2	6.6	6.6	10	20	30
				0			
Curb & Walk	04.29	04.17	07.10	4+75	05.6	04.8	04.2
	7.52	7.64	4.8	00.0	6.2	7.0	7.6
	17.5	12.2	7.7	5.8	10	20	30
				0			

H.I
511.81

5+00

05.08	04.94	06.5	06.4	05.9	05.2	04.6
6.73	6.87	5.3	5.4	5.9	6.6	7.2
17.6	12.0	6.5	10	10	20	30

5+15

05.56	05.36	06.6	05.5	05.5	04.7	
6.25	6.45	5.2	6.3	6.3	7.1	
17.4	11.8	7.6	0	10	17	

Garden

5+50

06.60	06.4	07.6	06.6	06.1	05.7	
5.21	5.4	4.2	5.2	5.7	6.1	
17.0	11.5	7.0	0	10	16.3	

5+70 Alley

06.99	06.88	07.9	06.8	06.0	05.5	04.3
4.82	4.93	3.9	5.0	5.8	6.3	7.5
19	14.5	10	0	10	20	30

5+75

09.9	07.8	07.9	06.8			
1.9	4.0	3.9	5.0			
30	20	10	0			

5+90 alley line

10.7	09.6	08.7	07.8	07.1	06.2	05.3
1.1	2.2	3.1	4.0	4.7	5.6	6.6
30	20	10	0	10	20	30

St 5+83 -6' left
Top of Manhole -3.5 508.3
Flow line Sewer -8.1 503.7

79-78

Wilde St. 5+83.9

		07.5	07.0	06.4	05.4	
		4.3	4.8	5.4	6.4	
		0	10	20	30	

6+13.9

10.6	09.6	08.8	08.0	07.1	07.2	
1.2	2.2	3.0	3.8	4.7	4.6	
20	10	0	10	20	30	

H.I 511.81
T.P. -3.52 508.29
+12.84 H.I +521.13

6+25

12.2	11.5	10.3	09.0	08.6	07.5	06.3
8.9	9.6	10.8	12.1	12.5	13.6	14.8
30	20	10	0	10	20	30

6+43.9

12.6	12.0	11.4	10.4	09.5	08.8	07.8
8.5	9.1	9.7	10.7	11.6	12.3	13.3
30	20	10	0	10	20	30

6+50

13.9	12.6	11.7	10.7	09.9	09.0	08.2
7.2	8.5	9.4	10.4	11.2	12.1	12.9
30	20	10	0	10	20	30

6+75

15.1	14.1	13.2	11.9	11.4	10.4	09.4
6.0	7.0	7.9	9.2	9.7	10.7	11.7
30	20	10	0	10	20	30

H.I
5.21.13

7+00

17.1	16.0	15.2	13.8	13.1	12.1	11.1
4.0	5.1	5.9	7.3	8.0	9.0	10.0
30	20	10	0	10	20	30

7+25

18.9	17.9	16.8	15.8	14.9	13.9	13.0
2.2	3.2	4.3	5.3	6.2	7.2	8.1
30	20	10	0	10	20	30

7+50

20.6	19.3	18.3	17.3	16.2	15.4	14.5
0.5	1.8	2.8	3.8	4.9	5.7	6.6
30	20	10	0	10	20	30

3.56 $17.57

11.45 529.02

7+75

22.9	21.5	20.5	19.6	18.7	17.7	16.5
6.1	7.5	8.5	9.4	10.3	11.3	12.5
30	20	10	0	10	20	30

8+00

25.6	24.6	23.9	22.6	21.9	20.6	19.7
9.4	11.4	12.1	13.4	14.1	15.4	16.3
30	20	10	0	10	20	30

529.02

8.0
7.9

8+25

27.9	27.0	26.3	25.8	24.4	23.7	22.8
1.1	2.0	2.7	3.8	4.6	5.3	6.2
30	20	10	0	10	20	30

T.P. − 1.47 − 27.55

9.65 H.I = 537.20

8+50

30.4	29.6	27.9	27.1	26.7	25.9	25.0
6.8	7.6	9.3	9.5	10.5	11.3	12.5
30	20	10	0	10	20	30

8+75

32.5	31.5	30.3	29.3	28.7	28.3	26.6
4.8	5.7	6.9	7.9	8.5	8.9	10.4
30	20	10	0	10	20	30

9+00

34.2	33.1	31.3	30.6	30.3	29.0	27.2
3.0	4.1	5.9	6.6	6.9	8.2	10.0
30	20	10	0	10	20	30

9+25

35.5	33.4	32.9	32.2	30.4	29.4	
1.7	3.8	4.3	5.0	6.8	7.8	
30	20	10	0	10	20	30

9+43 (33.79)

33.80	33.79	33.88
3.40	3.41	3.32
10	0	10

9+53

34.90	34.39	9+65
2.39	2.81	35.50
10	10	1.70
		0

9+73

36.49	
0.71	

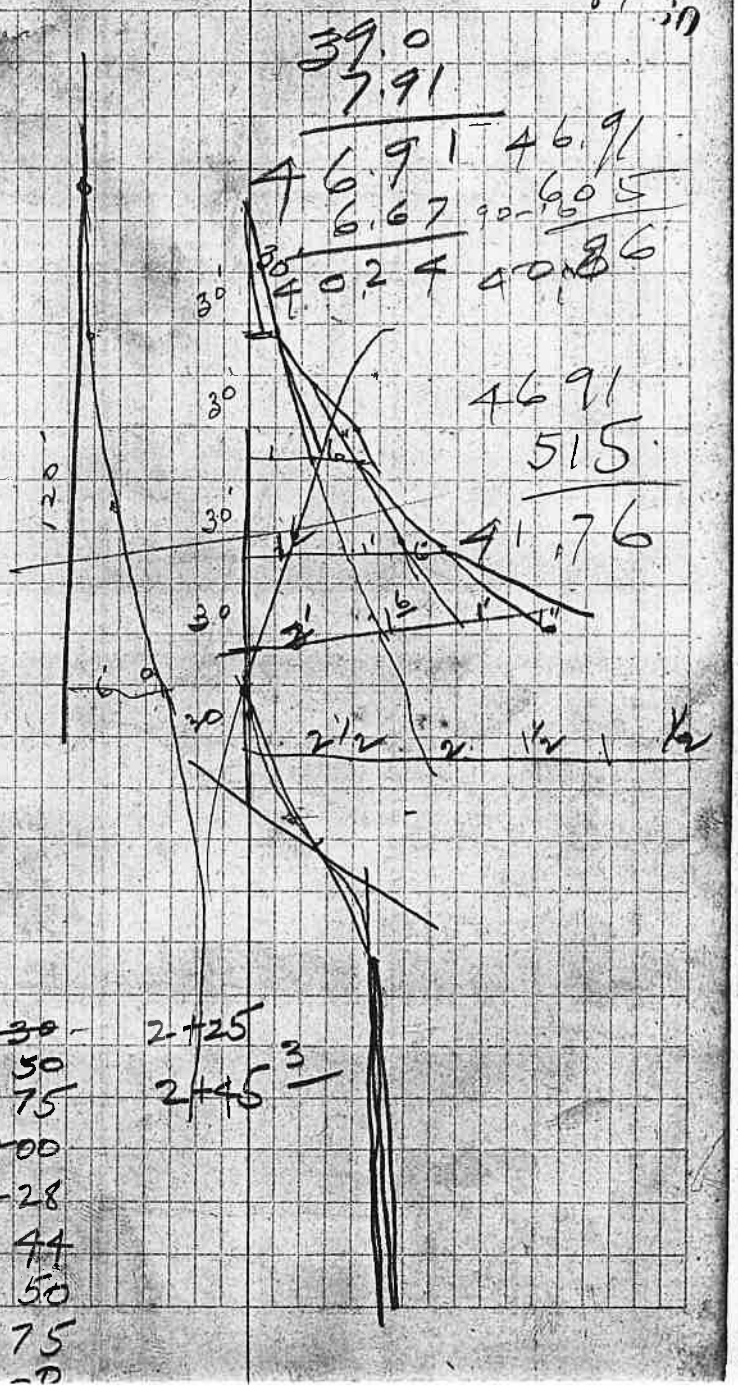
Δ	32°48'				
T.	72.8				
Deg	23° 10'				
EXI					

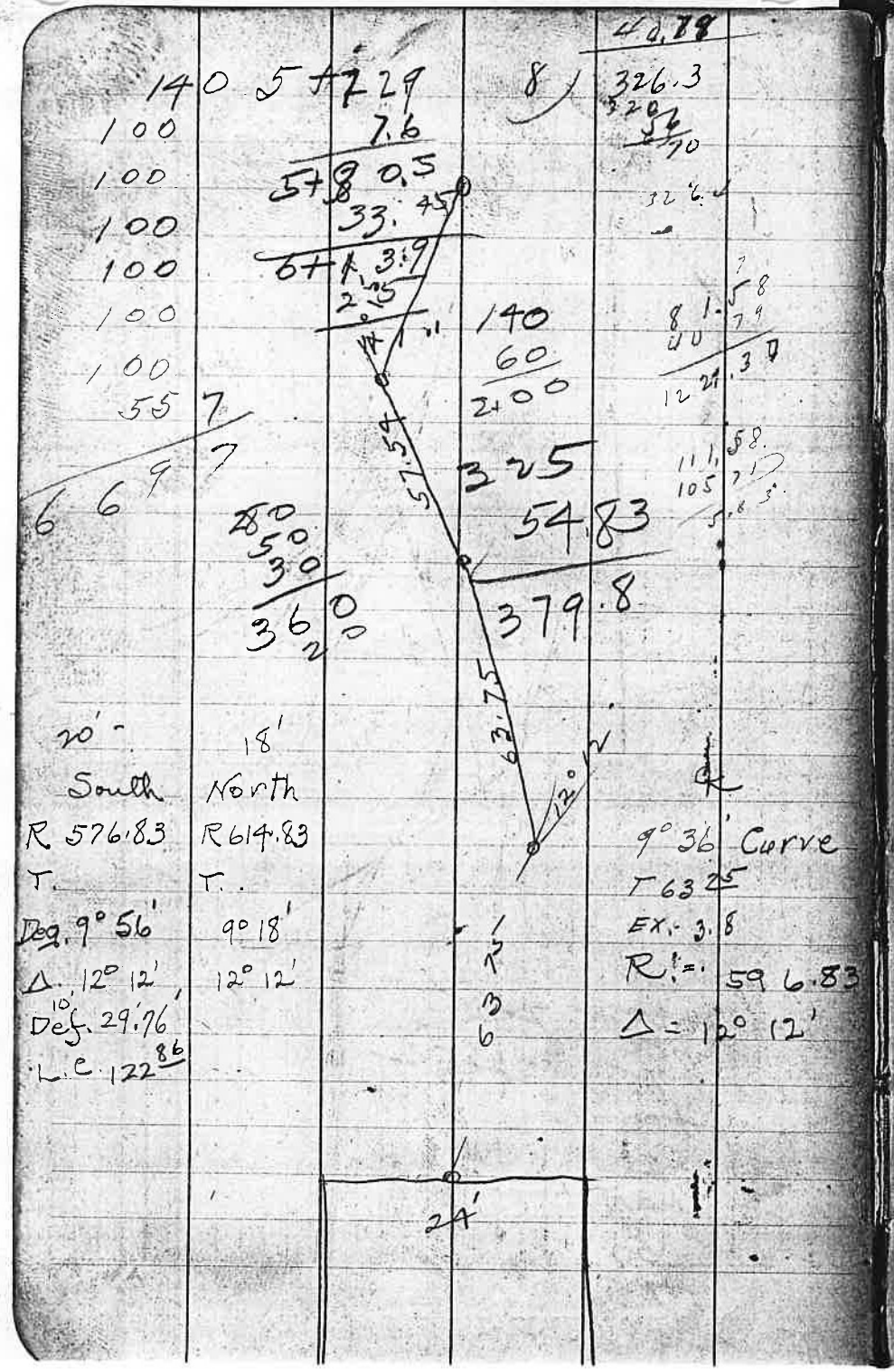
50 Spoon # 1 North
51± + 2 South

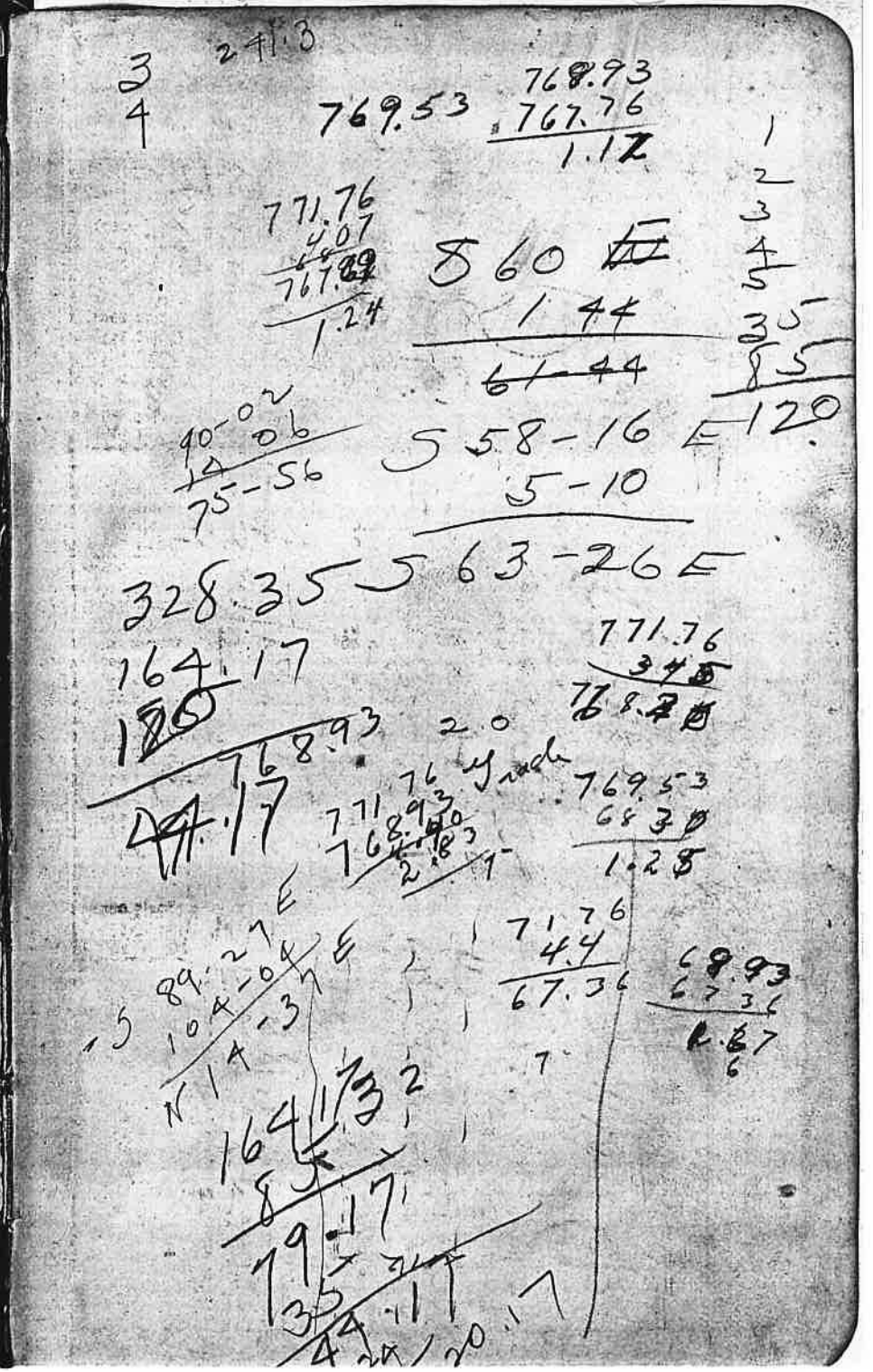
+ 51-04 W
- 1.18
51 0-16 E

6-12 9
3
5 83

B.M.				455.09
	0.38	455.47		
Hub.			12.06	443.41
	5.51	448.92		
F.I. M.H.			9.63	439.29




140 5+72.9
7.6
578.05
33.45
611.39
2.25
140
60
200
325
5483
379.8
20'
South
R 576.83
T.
Deg. 9° 56'
Δ. 12° 12'
Def. 29.76'
L.C. 122.86
18'
North
R 614.83
T.
9° 18'
12° 12'
9° 36' Curve
T 63.25
Ex. 3.8
R = 596.83
Δ = 12° 12'
24'


769.53
768.93
767.76
1.12
771.76
767.89
1.24
860
144
644
S 58-16 E
S-10
S 63-26 E
328.35
164.17
180
768.93
44.17
771.76
768.93
2.83
769.53
68.30
1.23
771.76
44
67.36
68.93
67.36
1.57
N 14
164.32
85
79.17
35
44.17

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.

MADE IN GERMANY.