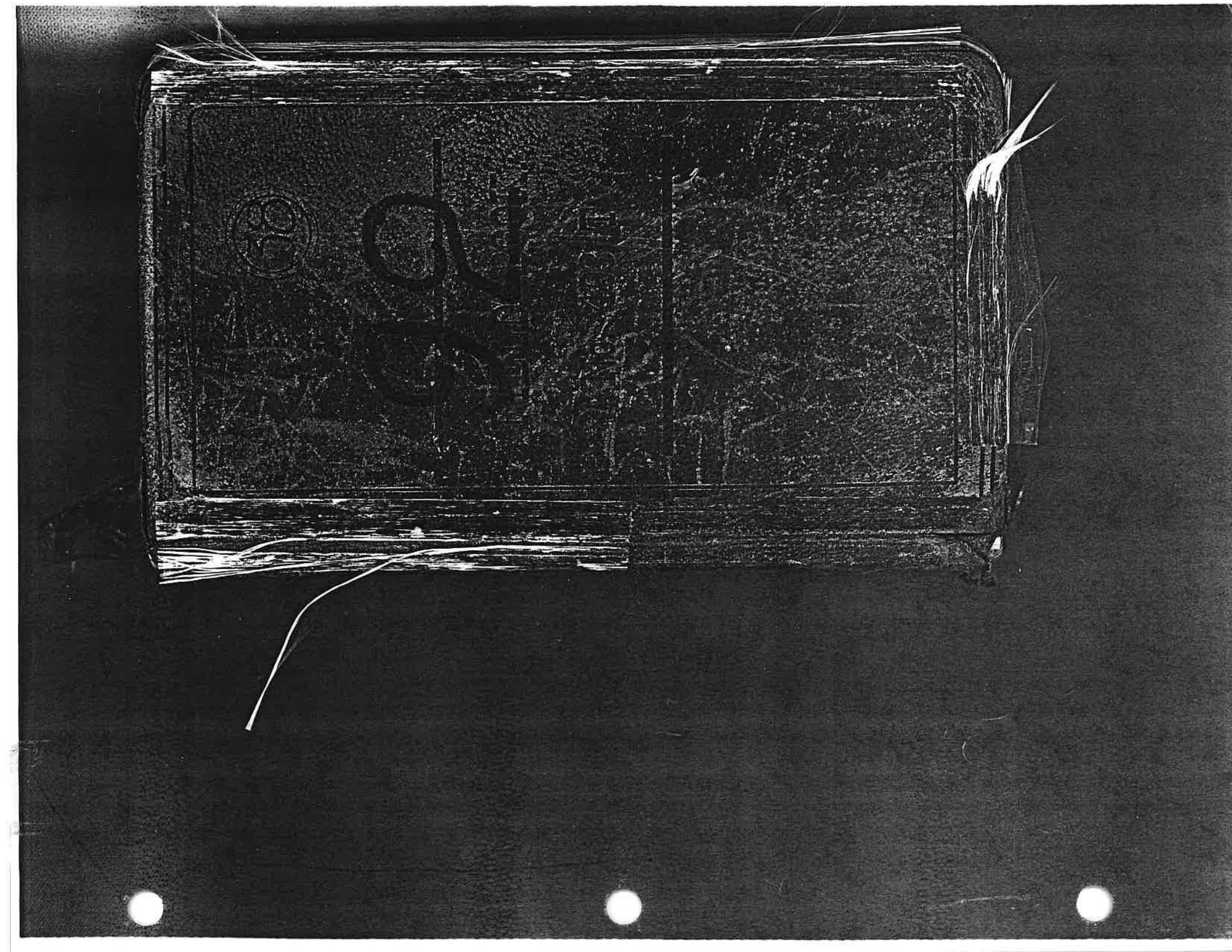
Field Book #92



EUGENE DIETZGEN CO.

Drawing Materials and Surveying Instrumen

NEW YORK. CHICAGO. SAN FRA

TABLES FOR EXCAVATIONS AND EMBANKMEN

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIO

ROADWAY 20 FEET WIDE. SIDE SLOPES 1 TO 1.

FOR SINGLE TRACK EXCAVATION.

"Copyright, 1902, by Eugene Dietzgen Co."

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9
1	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9
2	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9
3	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9
4	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9
5	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9
6	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9
7	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9
8	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9
9	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9
10	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9
11	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9
12	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9
13	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9
14	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9
15	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9
16	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9
17	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9
18	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9
19	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9
20	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9
21	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9
22	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9
23	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9
24	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9
25	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9
26	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9
27	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9
28	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9
29	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9
30	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9
31	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9
32	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9
33	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9
34	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9
35	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9
36	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9
37	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9
38	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9
39	49.0	49.1	49.2	49.3	49.4	49.5	49.6	49.7	49.8	49.9
40	50.0	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.8	50.9

Calculated by F. E. Paradis, C. E.

L. G. Hicks
Ralph Norstell

Saturday

Newport

WILLAMETTE STATIONERY & PRINTING CO. MANUFACTURERS FOR THE OFFICE PORTLAND OREGON

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To be checked R.W.

Initial Point is a 2" Iron Pipe
which is 538.88 E and 149.95 S
of Common Cor. of: 19 | 13
23 | 24
T-27-S, R-6-W.

Platted

Brown's Fan Acres
June 5, 1911

328.8

S 70°30' W 6

S 70°30' W

35.1

Initial Point Iron Pipe

137 ± Road

137.9 (calculated)
137.9

36.1

42.4

817

BLOCK 4

Five Fifty Foot Lots

Five Fifty Foot Lots

136.7

136.7

Alley 10.5

AVE

136.7

N 72°02' E

Brown

136.7

455.1

40.0

60.1

102.2

BLOCK 5

50.0

50.0

50.0

2.

STA	Distance.	Bearing.	Latitude N	Latitude S	Departure E	Departure W
1 I.P.	328.80	N. 70°30'E.	109.75		309.93	
2	935.10	North.	935.1 935.25			
3	310.00	West.				310.00
4	1045.10	South.		1045.10 1045.00		
1			1044.85	1045.10	309.93	310.00 309.93

Latitude & Departures for Browns Tail Acres.

137.9
2
275.8
42.4
10.6
328.8

600.
120.
60.25
48.80
86.35
36.15

950.05
935.25
14.80

1045.10
1044.85
.25

13
50
650

310.00
9.93
.07

5. Survey of Mr Woods Lot in Blk 22, Kinney's Imp Plat.

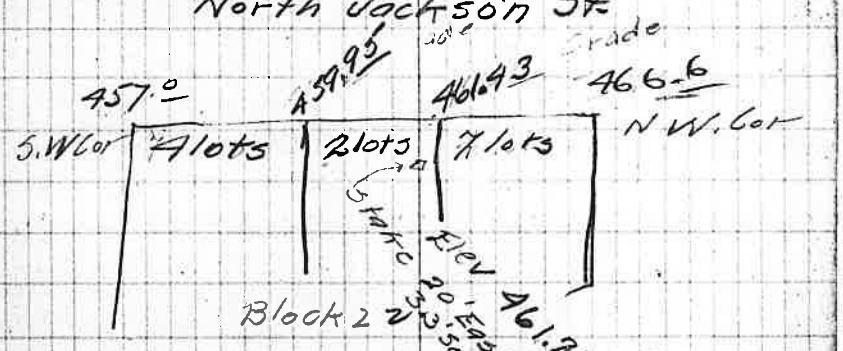
Sta.	B.S.	HI	F.S.	Elev
	1.554			467.136
		468.69		
T.P.	4.22		6.98	461.71
		465.93		
North Bdry NW Cor			4.99	460.94
North Bdry Centre			6.02	459.91
North Bdry NE Cor			6.82	459.11
& 0+00			5.86	460.07
& 0+70			6.76	459.17
& 1+40			7.60	458.33
South Bdry SW Cor			6.79	459.44
South Bdry Centre			7.43	458.50
South Bdry SE Cor			8.11	457.82
			4.67	461.26
			4.22	461.71
	6.14	467.85		
			0.71	467.14

Worstell 5

6-15-11

467.136

North Jackson St



Platted

Stake House 1.0' below Grade

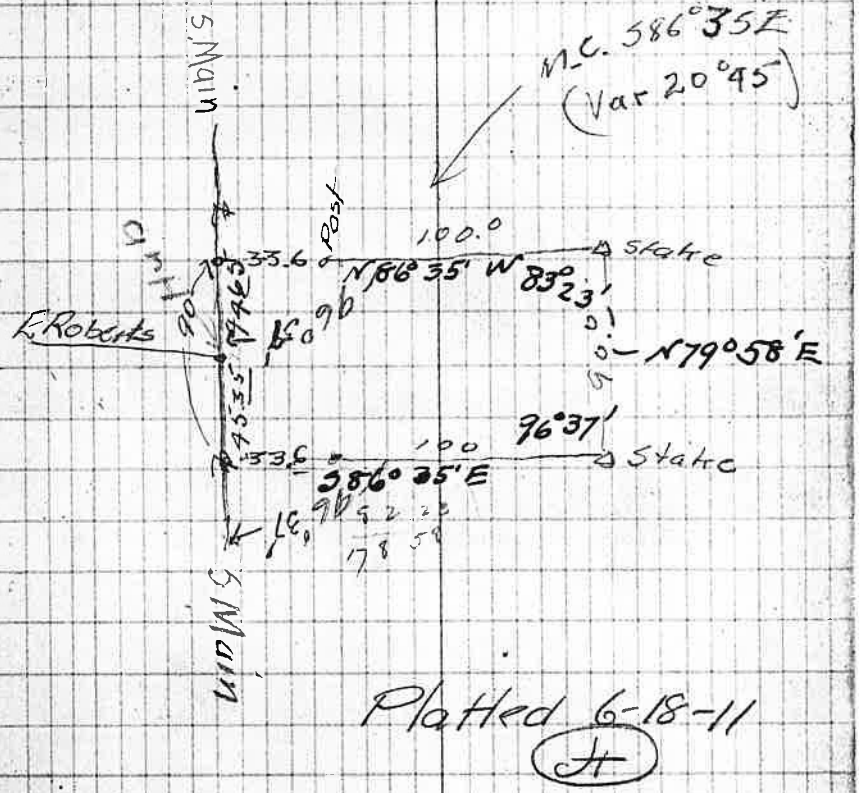
BM

126.0
128.7
204.1
130.9
76.0
48.9
122.9
144.1
106.5
125.0
115.0
1327.3

4

Survey of Parcel of ground + on South Main for Mr Schmeisser. 6-17-11

Schmeisser



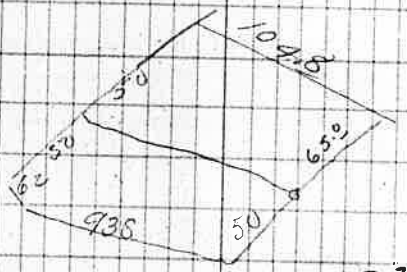
Plotted 6-18-11

+

5 Survey of parcel of land for Mr Starmer. 6-17-11

Sta	Dist	Δ	ΔR	C.C.	NC

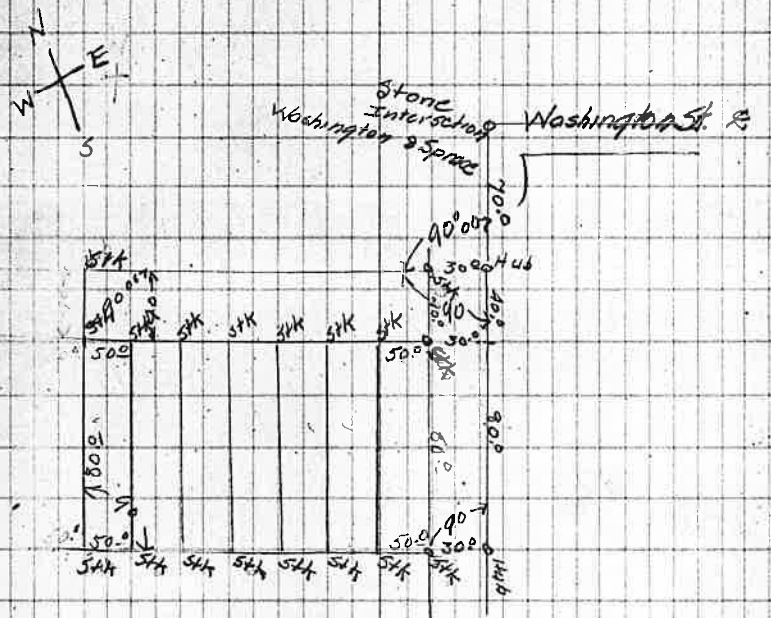
Sta	Dist	ΔL	DR	C.C.	M.C.
				S18°17E	
		74°38'			
	93.8			S25°57'W	
			2°52'		
	150.3			S22°59'W	
Δ2			13°12		
	86.0			S9°47'W	
Δ1			5°54'		
	190.0			S3°53'W	
				S48°00E	
		71°50'			
				S23°50' W	
	93.8		112°30		
				S88°40E	



93 8 2
2 3 5 1
S 6 8 4 1 E

92 87
2 3 5 1
6 9 1

Abrahams

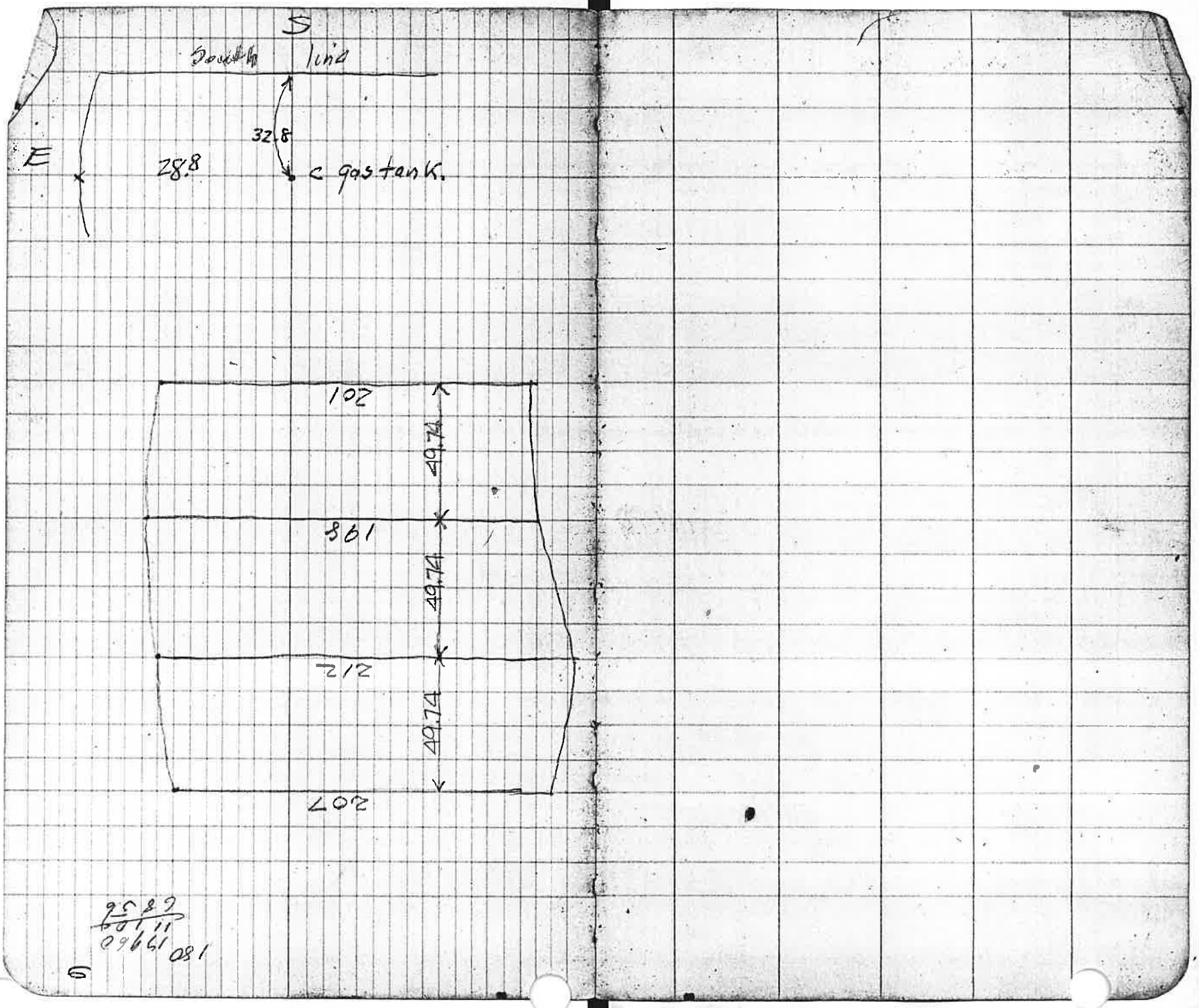

N
E
W
S
Stone Intersect
Washington & Spruce
Washington St. E.
70.0
90°00'
30.0
Hub
5 @ 10.0
90.0
60.0
50.0
180.0
90°
Hub
E. Spruce St.
West Property Line

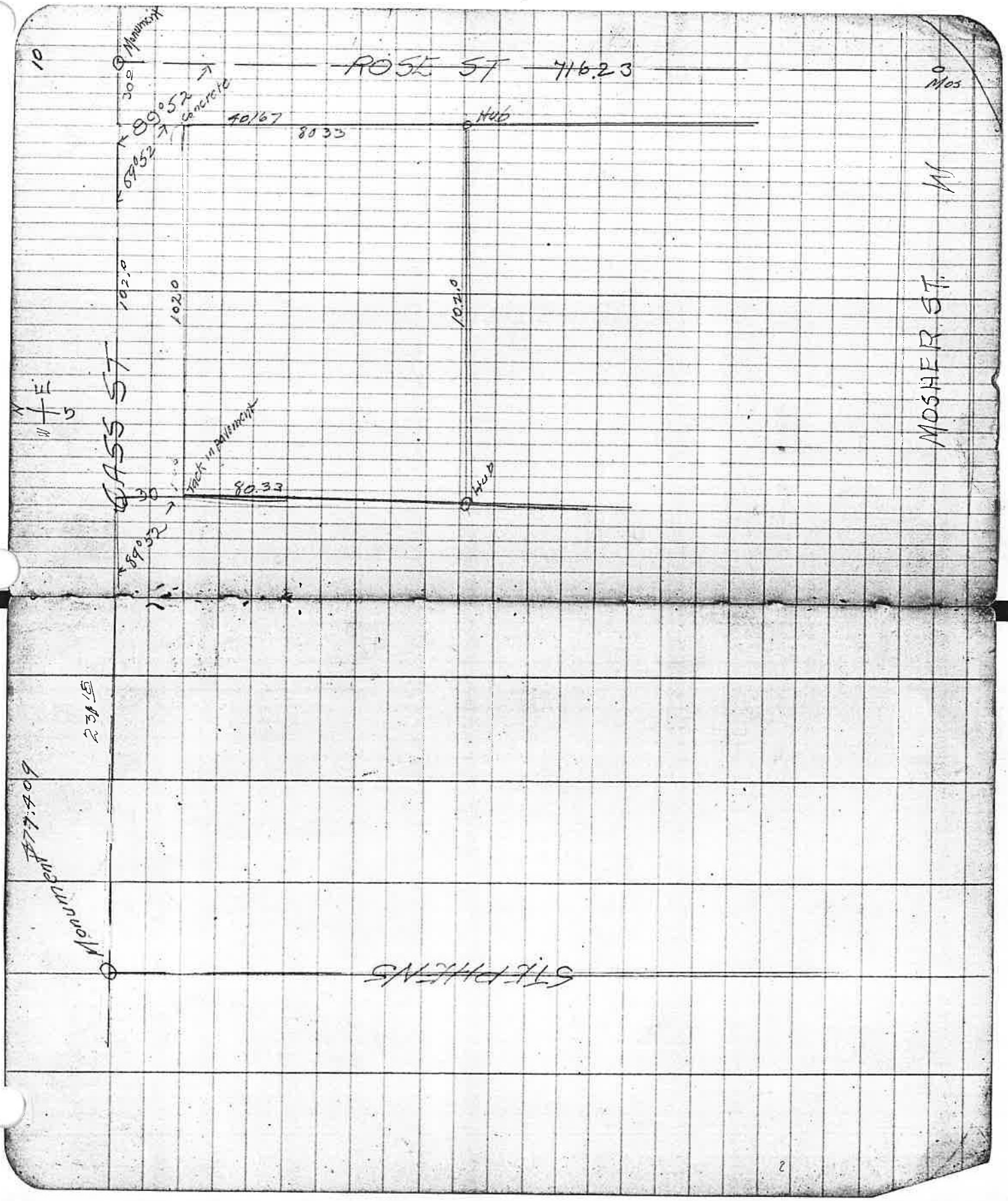
Stanmer St. No 2

Sta.	Dist	Δ L	Δ R	C C	M C
Sta.	Dist	Δ L	Δ R	C C	M C
	246.2				
				N17°26E	
			7°11'		
	50.0			N75°24W	
Δ3		31	5°37'		
	199.0			S51°17'W	S51°00W
Δ2			10°12'		
	199.3			S41°05'	S41°10W
Δ1			12515 125°15'		
				S89°10'E	
	ROAD #1 Lower Side West				
Sta.	Dist	Δ L	Δ R	C.C.	M C
	115.0			N98°47'W	
Δ4					
	104.8			S18°02'W	N19°10W
Δ3			6°16'		
	176.5			S11°46'W	S13°30W
Δ2	306.2	5°40'			
117.7 99.6	301.8			S17°36'W	S7°50W
Δ1			101°36		
				S89°10'E	

120.0
89.7
61.1 61.25
99.6
97.5 96.8
50.2 → 51.04
119.2

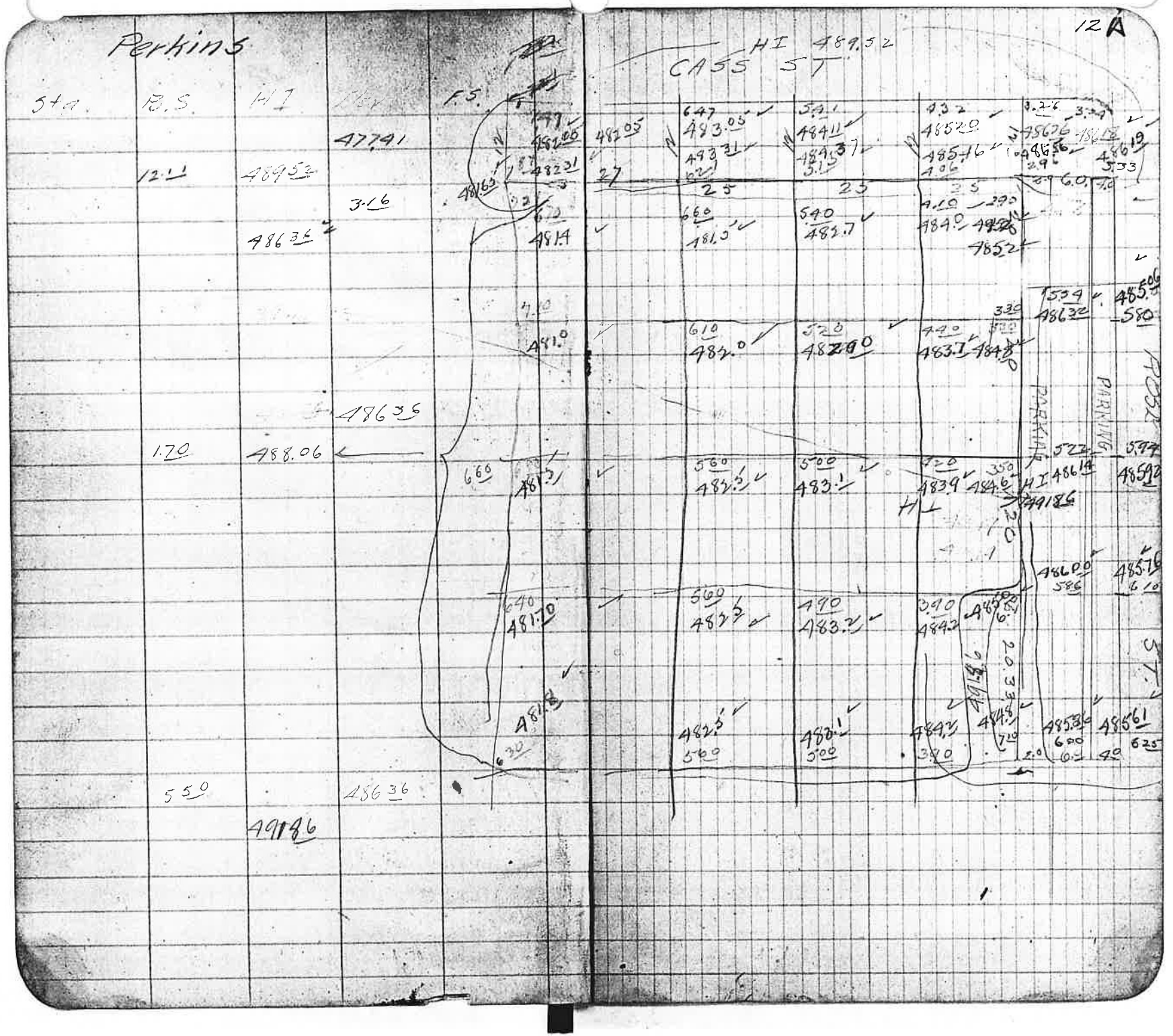
54.4
103.4 78.6
38°58'
50 91
11 46
9°33'
125°15'
9.67
99.6
19.63
78.2
61.23
51.04
50.2


S
South line
32.8
E
28.8
c gas tank.
102
49.74
86'
49.74
212
49.74
207


10
Monument
ROSE ST
716.23
30.0
89°52'
Concrete
40167
8033
Hub
89°52'
102.0
1020
102.0
MOSHER ST.
N.E.
WASS ST
Tack in pavement
80.33
30
Hub
89°52'
Monument
STEPHENS

11

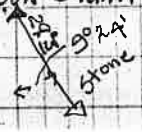
Sta.	B.S.	H.I.	F.S.	Elev


Perkins
CASS ST
HI 489.52
PARKING
POST
ST.

Variation 20°45' East

Sta	Dist.	∠	R.	C.C	M.C
∠9 2813.9					
	100.0				
∠8					
	660.0				
∠7					
	1000.0				
∠6 10539					
	5682				
∠5					
	169.8				
∠4					
2866	107.1				
∠3					
	57.0				
∠2					
	122.5		South	South	
∠1					

C.S. N.E Cor. Wm Robertson Claim
DLC 42



N.G
N.09°18'W

Sta.	Dist	Δ L	Δ R	C.C.	N.C.			
Δ9		2°01'						
	173.2						45.1	
Δ8								
	229.1						42.3	
Δ7								
	604.5						38.6	
Δ6								
	737.4						29.0	
Δ7								
	136.3			North			17.2	
Δ6			86°55'					
9833 Corner	15.0			N86°55E		Offset to clear Fence		
Δ5								
	129.8			N86°55E	N87°	0E (66°15)	(7.0)N	Aug 25 1911
Δ4 853.5		1°34'						Worstell
	235.5			N88°29E	N88°	35E (67°50)	(6.2)N	Simpson
Δ3		3°13'						Clarke
	158.6			S88°8E	S89°E	E 2 (70°10)	(4.7)S	
Δ2			3°17'					True Course
	229.2			N88°25E	N87°	15E (68°30'E)	(6.3)N	N 89°17'E
Δ1		2°12'						
	230.2			S89°23E	S88°	20E (70°35') (69°40')	2.5 (5)	
0+00			90°37'					
0+				North				

14

Sta.	Dist	Δ L	Δ R.	C.C.	M.S.		
	162.3						6.9
Δ21							
	285.0						6.5
Δ20							
	235.3						5.9
Δ19 Cl Cor U.T.C.	2253.2						
	303.3						5.7
Δ18							
	253.7						4.8
Δ17 Cl Cor 408.41							
	158.6						4.3 Aug 29, 1911
Δ16 12362							Worstell
	3014						4.0 Simpson
Δ15							Clarke
	394.1						3.4
Δ14							
	331.8						2.6
Δ13							
	251.2			N88°54'E	N89°05'	N89° (68°20)	1.9
Δ12		00°12'				68	
	259.1			N89°06'E	N88	ASL (68°00')	1.4
Δ11 Cl Cor.			104°04'				
	149.3			N14°58'W		N14°55'W (35°40	
Δ10		12°57'					
	474.3			N2°01'W	N2°0	5'W (22°50)	(36.0)

True Course		55.3
N0°55'W		150
N1880.5		40.3
N 474.0		16.7 W
149.2		38.6
2498.7		55.3

Stg.	Dist	Δ L	Δ R	C. C.	M. 1			
								3280.2
Δ34						8.5		
	263.2							
Δ33						6.8		
	225.7							
Δ32						5.4		
	155.3							
Δ31						4.4		
	245.5			S 00°49' E				
Δ30			00°06'			2.8		
	132.7			S 00°55' E				
Δ29 6809			00°05			2.2		Aug. 25, 1911
	148.4			S 1°00' E				Worstall
Δ28						1.7		Clarke
	149.6							
Δ27						1.2		
	130.8							
Δ26						0.8		
	252.1			S 1°00' E	S 1°0 E			
Δ25 Cl Cor 3279.1			90°06'				7.7	
	75.2			N 88°54' E		Cor. 7.7 North.		True Line N 88°47' E
Δ24							7.5	
	141.9							
Δ23							7.2	
	12 [illegible]							
Δ22	126							

Sta.	Dist.	ΔL	ΔR.	C.C.	NL
	125.6			N89°55'E	
Δ46			1°10' Big Fir		
	290.0				
Δ45					
	321.7				
Δ44					
	178.8				
Δ43					
	253.1				
Δ42					
	208.5				
Δ41					
	196.4			N88°45'E	N88°45'E
Δ40		00°45'			
	132.8			N89°30'E	N89°30'E
Δ39 Random CLC		89°30'			
3297.3 − 2.8 = 3294.5	540.7				
Δ38					
	307.7				
Δ37					
	257.7				
Δ36					
	209.5			51°00'E	
Δ35			00°11'		
	178.4				

Aug 26, 11 3611.5
Worstell
Clarke
Simpson ½ day

N 88°45 E

68°00

(68°45')

14.2 (87°05') Left

12.7

11.7

10.9 +

10.3

51°11'E

2.0

1936.5 @ 1°00' 34.9'

132.7 @ 0°55' 2.1'

68.1 @ 0°49' 16.6'

53.8

67.8

Sta.	23°00 Dist.	ΔL	ΔR.	C.C.	M.C.
59					
	118.2				
Δ 58					
	134.2			N68°45E	
Δ57			00°21		
	110.6			N68°24E	
Δ56		00°26'			
	97.4				
Δ55					
	131.7			N88°50E	
Δ54		0°25			
	143.6			N89°15'E	
Δ53			0°30'		
	225.4			N89°45E	
Δ52					
	175.1				
Δ51					
	31.8				
Δ50					
	55.9				
Δ49					
	415.8 Triang calculated			N88°45E	
Δ48			1°10'		
	125.6			N87°35'E	N87°35' E (66.50)
Δ47		2°20'			

Offset round Hornet's Nest

Variation 20°45'

Sta.	Dist	∠	∠R	C.C.	M.C.
	1645'			N56°10E	N56°00E
Δ14			60°29'		
	87.1			N4°19'W	N4°15'W
Δ13			41°06'		
	308.5			N45°25'W	N45°30'W
Δ12			20°03		
	525.5			N65°28'W	N65°25'W
Big Angle Δ11		23°30			
	664.4			N42°58'W	N42°15'W
Δ10			6°48'		
	278.3			N48°46'W	N48°30'W
Δ9			53°20		
	195.2			S77°54'W	S77°45'
Δ8		76°16'			
	285'± 9.			N25°30W	
Δ7	970.1				
	685.0			N25°50'W	N25°45'W
Δ6 2			6°20'		
	618.5			N19°30W	N19°45W
2159.1	1540.6		14°15'		
	330.0			N33°45'W	N39°00 W
Δ61		122°30'			
	96.7			N88°45'E	
Δ60 3616.4					
	64.4			N55°45'E	

Wire fence (35°15) (34°15)

(25°00)

(66°15)

(86°10)

(63°00)

69°35

(57°02')

Off the rocks up on top River Banks

46°30

40°45

54 45

S.E. Cor. J.T. Cooper Cl

Aug 29, 1911
Worstell
Simpson
Clarke

Aug 29, 1911
½ day
Worstell
Clarke
Simpson
16 2 60
20 45'
1 2 1.35

Random
Traverse of River Laughlin C.1

Sta.	Dist	Δ L	D R.	C. G.	M.C.	
	544.3			S79°37'W	S79°35'W	59.10
Δ4		3°09				
	126.7			S82°46'W	S83°00'W	62°15
Δ3		2°18				
	363.2			S85°04'W	S85°15'W	64'30
Δ2			00°23'			
	349.7			S84°39'W	S85°00'W	64°15
Δ1		10°25'				108°30
	1249.8			N89°56'W	N89°45'W	74°30
Δ21=0+00						
Δ21-50+00		88°50'		N1°06'W		

51°06'E

Random
Traverse of River Cooper C1

Δ21						
	1000.5			N78°14'W	N78°05'W	(61°10)
Δ20		86°45'				
	119.2			N8°26'E	N8°35'E	(12°15)
Δ19			75°02'			
	138.7			N66°36'W	N66°23'W	(87°10)
Δ18			2°01'			
	382.3			N68°37'W	N68°26'W	50°15
Δ17 A			11°43'			
	370.1			N56°54'W	N56°45'W	(77°30)
Δ16			1°27'			
	4268			N58°21'W	N58°05'W	78°50
Δ15	R.A. 1140	114°31				
	per 11495 back					

102°50 End of River Traverse on Cooper Place Murray
Had 00°03' for many

On the bedrock again

Aug 31, 1911
½ day
Worsten
Simpson
Change

Traverse of River Loughlin C1

Sta.	Dist	Δ L	D R.	C. C.	M C	
	544.3			S79°37'W	S79°35'W	59'10
Δ4		3°09				
	436.7			S82°46'W	S83°00'W	62°15
Δ3		2°18				
Δ3	363.8			S85°04'W	S85°15'W	64'30
Δ2			00°25'			
	349.7			S84°39W	S85°00 W	64°15
Δ1		10°25'				105°30
	1249.8			N89°56'W	N89°45'W	74°30
Δ21=0+00						
Δ21=0+00		83°50'		N1°06'W		

Bedrock

51°06'E

Random Traverse of River Cooper C1

Δ21						
	1000.5			N78°19'W	N78°05'W	(91°10)
Δ20		86°45'				
	119.2			N8°26'E	N8°30'E	(12°15)
Δ19			75°02'			
	138.7			N66°36W	N66°25'W	(87°10)
Δ18			2°01'			
	382.3			N68°37'W	N68°30'W	80'15
Δ17 A			11°43'			
	370.1			N56°54'W	N56°45'W	(77°30)
Δ16			1°27'			
	426.8			N58°21'W	N58°05'W	78°50
Δ15	R Ramp 0 on Mapps Back	114°31				

102°50 End of River Traverse on Cooper Place Herrah Had 00°03' to monument

On the bedrock again

Aug 31, 1911
½ day
Worstell
Simpson
Clarke

Random River Traverse / Robertson Claim

Sta.	Dist.	Δ L.	Δ R.	C.C.	M.C.	
	472.5			S24°55'E	S25°00'E	45 45
Δ5		5°15'				
	234.2			S19°40'E	S19°E	(40 20)
Δ4		21°59'				Jumped upon Bank here to the right
	380.6			S2°19'W	S2°15'W	18 30
Big Angle Here Δ3 about 300 Birch		21°02'				170' to Waters Edge
	499.4			S23°21'W	S23°30'W	2°25
Δ2		7°00'				
	550.2			S30°21'W	S30°15'W	(9°20)
Δ1			2°25'			
	286.5			S27°53'W	S27°30'W	6°45
0+00		60°52'				153.5' N49°45'E of Cor
				S88°45'W		

Random River Traverse / Robertson Claim

Δ10						(39°15') (39°17') Locked 0°2'
	995.6			S49°28'W	S49°35'W	S28°50'W
Δ9		1°10'				
	420.9			S48°15'W	S48°25'W	21°40
Δ8		1°24				Triangulation (82°51 1/2)
795.3	798.3					
Δ7 Δ B19 2005		17°32'		S46°54'W	S47°05'W	26°20
	818.0					
Δ6 2005			1°18'	S64°26'W	S64°40'W	43 55
	614.2					
Δ5 2005		16°29'		S63°08'W	S63°15'W	42 30

Random River Traverse Robertson Claim

Sta.	Dist.	ΔL	ΔR.	C.C	M.C.
			Random S.E Cor.		
	140' North of Robertsons				
Δ15					
	167.5			S21 10E	S20°00'E
Δ14			17°15		
	668.4			S38°28'E	S37°13'E
Δ13			6°24'		
	310.9			S44°52'E	S44°45'E
Δ12			10°13		
	656			S55°05'E	S53°45'E
Δ11 Angle round brush			70°34		
	123.6			N54°21'E	N54°15'E
Δ10		82°46			
	390.4			S42°53'E	S43°06'E
Δ9			1°39'		
	620.1			S44° 32'E	S44° 25'E
Δ8		10°33'			
Triangulation	738.5			S33°59'E	S34°20'E
Δ7			2°11		
	454.5			S36°10'E	S36°00'E
Δ6		11°15'			

21°00		Sept 1911
40°45		Worsten
58°15		Simpson
65 30		Clarke
(74 45)		
33°30'	Back on bank	
63°45'		
65 10	88°10	
	150	
	300	
55°05		
	Off the Bank back on River	
56°45		

True Line between Cooper and Laughlin Claims

Sta.	Dist	ΔL	ΔR.	C.L.	M.C.
2098.6	138.4				
Δ 11					
1960.2	70.5				
Δ 10					
1889.7	338.2				
Δ 9					
	146.1				
Δ 8					
	131.0				
Δ 7					
	177.8				
Δ 6					
	104.6				
Δ 5					
	206.8				
Δ 4					
	97.7				
Δ 3					
	368.3				
Δ 2					
	274.0				
Δ 1					
	200.2				
0+00				N1°06'W	N1°00W
		90°00			
				N49°06'E	

Waters Edge (21°45')

Aug 29, 1911 ½ day
Worstell
Simpson 2013
Clarke
Aug 30. 1 hour

True Line

Line between Cooper and Robertson Cls

Sta.	Dist.	Δ L	Δ R.	C. C.	Notes
3294.9	450.0				
Δ 11					
	1021.4				
10					Edge of Brush
	126.0			S 68° 45' W	
Δ 9		00° 10'			
	157.1			S 89° 55' W	
Δ 8		00° 21'			Foot of Hill
	246.1			S 89° 16' W	
Δ 7			1° 30'		
	74.8			S 87° 26' W	
Δ 6		1° 19'			
	102.8			S 88° 45' W	
Δ 5		00° 14'			
	175.7				
Δ 4					
	187.3			S 88° 59' W	
Δ 3			00° 32'		
	212.9				
Δ 2					
	200.6			S 88° 27' W	
Δ 1		00° 18'			
	345.2			S 88° 45' W.	
POB		00° 21'			
				S 89° 06 W	

X H

True Line
S 88° 44' W.
Aug 30 1911 9 hours
Worstall
Clarke
Simpson

Line between Laughlin and Robertson Claims

Sta.	Dist	ΔL	ΔR	C.C.	M.C.

True line between Robertson & Kelly Claims E.C. M.C.

Sta.	Dist.	Δ	ΔR	
	55.5'			S65°57'E
A2			16°27	
	973.5'			S52°30'E
A1			52°30'	
	1764.5			
				South
				South
	2376			
A7		90°00'		East
	825°			
A6			90 00'	
A	545 282.5			
A5				
	2706			
A3				
	101.0			
A2				
	2171			
A1				
	1525			South
P.T.O.C.				

58 1/2
31 48
52 30

Curry Ranch
Riversdale

26

26-L

Stg.	Cut off Dist	ΔL	AR.	C.C	M.C
	2080.2	2130	00°07		
	170.9				
		60°07			
	1683.7				
	129.8				
	1813.5				
	3.2				
	1809.3				
		100'			
			2°00		
		1°00'			
			30.07		
Δ3				38°47'W	
1069.5	242.6				
Δ2			00°04'	38°43'W	
	421.0				
Δ1		00°15		38°58W	
	4039		90°04		
40+00				51°06'E	
Cox					

2A

Line for Road. East boundry
Curry Flat.

12-10-11

10 + 16

903.1

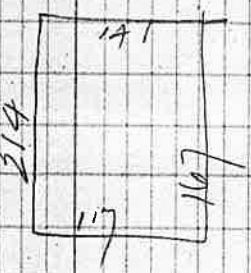
30 + 34's

Survey for Hostetter
Var 2045

Sta	Dist	ΔL	ΔR.	C.C	M.C	
Δ12			88°37'			
	117.6			N2°35'W	N2°15'W	23°00
Δ11		98°30				
	126.5			S14°05'E	S83°45E	75°30'
Δ10		27°5'				
	141.7			S56°50'E	S56°35E	(79'20)
Δ9			61°38			
	93.4			N61°32'E	N61°45E	41°00
Δ8		27°7'				
	391.0 441.0			N88°49'E	N89°45'E	(68°10)
Δ7			99°45'			
	296.7			N10°56'W	N10°45'W	31°30
Δ6		22°01				
	207.9			N11°05E	N11°10'E	(9°35)
Δ5			49°8'			
	276.5			N36°13'W	N38°00'W	58°45'
Δ4		24°56'				
	134.2			N13°17W	N13°00'W	33°45'
Δ3			60°14			
	192.6			N73°31'W	N73°30W	86°00
Δ2			5°37			
Lost out for this one	789.0			N79°08W	N74°00W	80°5'
Δ1			106°52'			90' South to Fence
	111.3			S6°00'E		26°5 10' East to Fence
0+00						

Large Tract of Western Small

Sta.	Dist.	ΔL	ΔR.	C.C.	N.C.	
			54°02			
	235.9			N31°10'W	N31°00W	5215
Δ7		39°46'				
	108.5			N8°36E	N8°30E	17°30
Δ6		83°01				
	138.8			S88°23'E	S88°30E	7040
Δ5			85°24			
	138.3			N9°13E	N9°15E	1145
Δ4		101°05'				
	420.6			S69°42E	S67°30E	4830
Δ3		75°50'				
	252.0			S6°08'W	S6°00W	
Δ2		43°52'				
	112.3			S50°00'W	S49°45W	2443'
Δ1		14°40'				
	338.0			N85°20W		7340
0+00				S4°00		
			87°58'			
10+00						
	319.8			N86°02E	N86°00E	65°10



Sta.	Large Dist	Tract Δ L	Δ R	C.C	M.C		
Δ12			53°51'				
	435.5			S56°46'E	S55°35'	E	76°35'
Δ11		13°38'					
	718.4			S43°04'E	S44°07'	E	65°00
Δ10			56°48'				
	325.3			N80°04'E	N80°45'	E	59°45
Δ9		7°47'					
	85.1			N87°51'E	N88°30'	E	67°30
Δ8		5°23'					
	90.8			S86°46"E	S86°35'	E	72°45'
Δ7		33°29					
	426.9			S53°17'E	S52°[illegible]	E	73°15'
Δ6		29°36					
	328.2			S13°41'E	S13°15'	E	(44°15')
Δ5		5°26'					
	438.0			S15°15'E	S15°15'	E	36°15'
Δ4			67°48'				
	219.1			S83°04'E	S82°[illegible]	E	
Δ3			41°09'				(76°40')
	122.0			N55°47'E	N56°3[illegible]		
Δ2		47°52'				E	(35°30)
	158.7			S76°21'E	S75°50'		
Δ1		2°[illegible]	2°37			E	63°18
	211.9			S78°52'E	S77°5[illegible]		77°[illegible] 91°10
0+00							

Sta	Dist.	ΔL	ΔR.	C.C.	T.C.	
	280.3			N11°28E	N12°10E	8.50
Δ24			41°21			
	415.9			N30°53'W	N30°15'W	51°15
Δ23			54°33'			
	137.5			N85°26'W	N84°50'W	74°10
Δ22			74°38			
	715.9			S19°56'W	S20°15'W	00 45'
Δ21		124°10'				
	190.1			N35°54'W	N35°35'W	(56°35)
Δ20			9°19			
	176.5			N45°13W	N44°03'W	65°30
Δ19			8°06			
	106.2			N53°14'W	N53°12'W	74°10
Δ18		35°18'				
	317.4			N18°01'W	N17°30'W	38 30
Δ17			72°58			
	180.3			S89°01'W	S89°30'W	(68°30)
Δ16			73°14			
	53.7			S15°17'W	S16°25'W	4 40
15		61°44'				
	351.6			S77°31'W	S77°00'W	57 00
Δ14			10°23'			
	1016.6			S67°08'W	S67°40'W	46°40
Δ13			70°03'			
	292.4			S2°55'E	S2°15'E	4 15

Sta	Dist	ΔL	ΔR.	C.C.	M.C.

First to come out

Sta. - Dist	ΔL	ΔR	C.C.	M.C.	
					(86 ± C)
86.4			S79°54'W	S79°00'	W 58 00
Δ9		3°42			
139.4			S76°12'W	S73°15'	54 15
Δ8	11°30				
193.9			S87°42'W	S87°40'	(66°40)
Δ7	52°46				
233.0			N39°32'W	N40°30'	(61°30)
Δ6	24°48'				
203 5			N14°44'W	N15°45'	W (36°15) S
Δ5	25°18				
526.6			N11°04'E	N10°15'	10°45
Δ4	110°14	40°24'			
326.9			S58°32'E	S78°3	SE 79°35
Δ3	7°29'				
100.0			S51°03'E	S50	15'E 71°15
Δ2	9°30				
159.4			S41°33'E	S42°00	E 68 00
Δ1	35°3				
490.9			S6 30E	S6°30	E 27 30
0+00					

Sta.	Dist	ΔL	ΔR	C.C.	Mk.

Hausche
Variation 21°45'

Sta.	Dist	ΔL	ΔR	C.C	MC
	806.8				
	197.9				
	66.2				
	191.7				
			58°00'		
	280.5				
				West	
	146.3				
	2369.5				
		00°35'			
			1°10'		
		00°35			
				North	

719
120.1
192.0

Sta	Dist	ΔL	ΔR.	C.C	M.C.
00	280.5	Radsche		East	
-5	2831.0			532°00'E	
	492.8			N81°34'W	
Δ4					
	253.8			S88°08'W	
Δ3					
	514.4			S83°39'W	
Δ2					
	546.4			S74°14W	
Δ1					
	2515.8			North	
¼ Cor 9+00 bet 22/27					
	158.1				
57.9	57.9				
	133.5				
	277.3				
	166.9				
	427.2				
	347.8				

offset back

Sta	Dist	Δ L	Δ R	C.C.	M.C.

East Bdry

Sta	End Tan Line Dist	Δ L	Δ R.	C.C.	M.C.	V.A.
Δ12						(16°04)
87.9	91.0					
Δ11						(26°07)
27.8	31.0					
Δ10						(18°06)
190.1	200.0					
Δ9						(11°23)
90.2	91.0					
Δ8						(10°29)
54.1	55.0					
Δ7						(1°12) Downhill
134.0	134.0					
Δ6						(3°01)
166.8	167.0					
Δ5						(9°42)
171.5	174.0					
Δ4						(23°26)
89	97.0					
Δ3						(21°35)
187.8	202.0					
Δ2						
96.1	100.0					
Δ1						(16°04)
(59.8)	63.4					
N.E. 600						(18°57)
0+00 Pipe						

S

West
Y.A. 27°00'65.0

11 West
Y.A. 26°20 (62.0)

No 9 is 10' too far South and 7' too high in Elev

Traverse of ℄ Ridge

Sta	Include Dist	Δ L	Δ R	C. C.	N.C.		
155.6	161.0			54°38'E	54°55'W	(14°51') V.A	41.3
Δ 4		43°02'					
231.4	240.0			538°24'W	538°10'W	(15°24') V.A.	63.7
Δ 3			31°28'				
89.7	91.0			56°56'W	56°35'W	(6°45') V.A.	19.9
Δ 2		39°03'					
152.1	157.0			545°59'W	545°40'W	(14°24') V.A.	39.0
Δ 1			51°47'				
146.6	162.0			55°48'E	56°00'E	(25°10') V.A.	69.0 Elev
0+00.		99°00'					
	54.9			W86°48'W			
NE Corbett 22							

Traverse of Ridge

Δ4 Not Corbett 22							
(133.0)	135.0			513°25'W	513°05'W	V.A. 9°42'	
Δ 3			00°37'				
(188.2)	194.0			512°48'W	512°30'W	V.A. 14°02'	75' Wide
Δ 2		2°45'					
(146.4)	150.0			515°33'W	515°20'W	V.A 12°40	60' Wide
Δ 1		8°26'					
(116.3)	229.0			523°59'W	523°35'W	V.A. 8°54'	
Δ 5 = 0+00			29°14'				
				S00°15E			

Δ 41.0 West — V.A. 11°24' — Top of Ridge

(40.2) 8.1 Raise

Traverse of a Ridge

Sta.	Tacline Dist.	ΔL	ΔR.	C.C.	M.C.
1455	150.0			West.	
Δ12 Real Line 30.7	31.0			S2°49E	S3°00E
Δ11			18°00		
80.0	81.0			S20°49E	S21°05E
Δ10			11°50		
88.8	89.0			S3239E	S33°00E
Δ9			00°36'		
68.7	89.0			S33°15E	S33°30'E
			9°26		
29.3	30.0				
Δ8					
147.6	153.0			S23°49'E	S24°10E
(Δ7 This is not a Δ)					
67.1	69.0				
(Δ6)			9°33'		
64.9	68.6			S33°22'E	S33°30E
(Δ5)		28°44'			

Δ12 West — Compass
V.A. 14°05'

V.A. (8°15') 4.9 — 36.5 Elev

V.A. (9°05) (12.8)

V.A (4°18') 6.7

V.A. (5°01) (7.8)

VA (12°12') (6.3)

(15°18) 36.2 on this tangent to Lot Line 22 23 — 40.9

(13°35') V.A. (16.2)

(18°57') V.A. 22.3

West Boundary

Sta.	Inc. Dist	ΔL	ΔR.	C.C	M.C.
Δ 8					
35.9	36.5				
Δ7					
167.0	179.0				
Δ6					
146.3	149.0				
80.0	80.0				
Δ5					
158.6	160.7				
(Δ4)					
152.7	157.5				
(Δ3) 01601					
305.1	317.0				
150.0	155.0				
105.6	110.0				
(Δ2)					
181.5 Fence Line	1860				
Δ1					
88.2	89.0			300°05'	
0+00 N.W Cor					

(13°49') V.A.

(21°05') VA

(10°50') V.A.

(2°00') V.A.

(9°12') VA

(14°05')

(15°50')

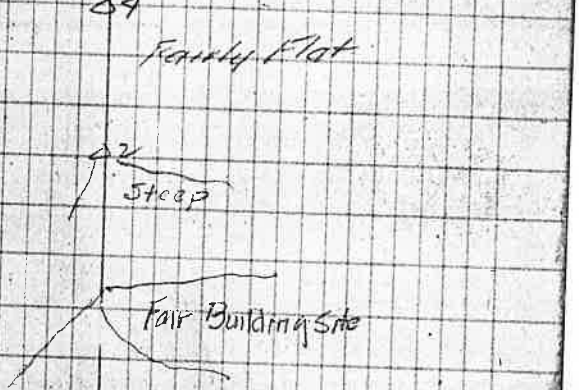
(14°32') VA

(16°15') VA

V.A (13°35') VA

V.A (8°49') V.A

Sta.	Gulch Dist	H.D.M. ΔL	H.D.M. ΔR	C.C.	M.C.	V.A.
hot=4th bet 2182						
	540			N88°09'W	N87°30'W	V.A. (21°00)
Δ9 2nd			76°36			
	113.9			S15°07'W	S15°25'W	V.A. 18°39
Δ8			2°43'			
	130.4			S12°09'W	S11°50'W	V.A. 13°43')
Δ7			10°39'			
	655			S1°25'W	S1°15'W	V.A. (12°03')
Δ6		8°15'				
	760			S9°40'W	S9°25'W	V.A. (13°60)
Δ5			14°36'			
	713			S4°56'E	S5°10'E	V.A (12°37')
Δ4		27°46'				
	188.5			S22°50'W	S22°35'W	V.A. (12°18')
Δ3			16°39'			
	131.1			S6°11'W	S6°20'W	V.A (15°16')
Δ2			3°22'			
	198.7			S2°49'W	S2°35'W	V.A. (12°59')
Δ1		21°49'				
	167.8			S29°58'W	S29°20'W	(12°10') V.A
Pipe Δ in		48°27'				
				S73°05'W		



Levels for North line Block 3 Plat N
Lots 20-21-22-23

Sta.	B.S.	H.I.	F.S.	Plat N Elev.	
				562 63	
T.P.	2.70	565 33	3.08	556.25	
	7 32	563 57			
N.E. Cor.			9.23	554.34	
Angle in Lot 20 Gulch			4.12	559.45	
T.P.	0.77	562 07	.27	561 30	
T.P. Lot 21 & 22	1.47.	552,43	11.10	550 96	Lot 22 & 21
			6.51	545.9	Point where we went up big Ridge
			7.80	544.63	Lot 22 & 23
N.W. Cor Lot 23			9.95	542.52	

Traverse of Road

Sta.	Dist	Δ L	Δ R.	C. C	M. C	
Δ 11		33°12'				
	96 ±			S59°37'W	S59°14'W	(8°03)
Δ 10		21°18				
	161.4			S80°50'W	S81°10'W	Level
Δ 9		26°17				
	86.9			N72°53'W	S72°50'W	(2°96') Down hill
Δ 8			00°32'			
	135 ±			N73 25'W	S73°15'W	(1°52')
Δ 7		9°03'				
	146.8			N64°22W	N64°20'W	(2°56')
Δ 6			64°44'			
	79.5			S50°37'W	S50°35'W	(7°54')
Δ 5			77°47'			Across Gulch
	118.8			S26°53'E	S27°0'E	(7°33')
Δ 4			51°47			On a point
	2838			S78°40'E	S78°50'E	(1°18')
Δ 3			1°55'			
	1680			S80°35'E	S80°40'E	V.A. 4°21)
Δ 2			11°00'			
	154.3			N88°25'E	N88°00'E	V.A (4°03)
Δ 1		40°36		S50' 59.E	S57°15'W	
	119.1					
0+00 N.W Cor			35°49'			V.A. 9°15
				S86°48'E		

Traverse of Road

Sta	Dist	ΔL	ΔR.	C.C.	M.E.	
	71.1			S24°25'W	S24°10'W	(7°42) Cross back across Gulch
Δ23			64°02			
	43.7			S39°37'E	S39°30'E	Bridge (2°09')
Δ22		33°51				
	163.4			S5°46'E	S6°00'E	(5°09)
Δ21			13°06'			
	133.2			S18°55'E	S19°00'E	(5°36)
Δ20		9°17				
	189.9			N69°51'E	N70°00'E	(1°07)
Δ19		69°42				Bank of Gulch
	176.5			S40°27'E	S40°35'E	(5°26)
Δ18			29°38'			
	71.7			S15°24'E	S15°40'E	(5°15')
Δ17			17°20'			
	86.4			S37°49'E	S35°10'E	(7°17)
Δ16			35°19'			
	119.9			S68°08'E	S68°18'E	(3°34)
Δ15		34°22				
	133.2			S33°46'E	S33°55'E	(9°22)
14			18°48'			
	117.5			S52°34'E	S52°50'E	(6°35') V.A.
Δ13			67°38			
	125.3			N59°48'E	N59°30'E	(2°42')
Δ12		146°32'				
1	104.0			S26°20'W	S26°08'W	(7°12')

Traverse of Road

Sta.	Dist.	∠L	∠R.	C. C.	M.C.	
	125.4			N89°58'W	N89°50'W	(0°20') Ophiolite hill
△36			00°24'			
	73.4			S89°43'W	S89°15'W	(5°47')
△35 Cor 22 & 23			18°32			
	66.0			S71°11'W	S70°50'W	(1°06') Downhill
△34			72°25'			
	157.6			S1°14'E	S1°30'E	(0°45') Downhill
△33			13°08'			
	77.2			S14°22'E	S15°00'E	(2°04')
						Near Summit of Ridge
△32		89°52'				
	78.0			S75°30'W	S75°20'W	(0°15') Downhill
△31		38°53'				
	59.6			N65°37'W	N65°35'W	(3°17)
△30		35°02'				
	143.8			N30°35'W	N30°00'W	(5°26')
△29			18°21'			
	116.0			N48°56'W	N48°00'W	3°49
△28			90°24'			
	214.0	[illegible]		S40°40'W	S40°10'W	6°45'
△27		56°53'				
	66.0			N62°27'W	N62°30'W	(3°35')
△26		37°17'				
	51.4			N45°10'W	N45°00'W	(2°52')
△25		32°53'				
△24	127.5			N72°07'W	N72°30'W	(0°20')
△23A			143°18'			

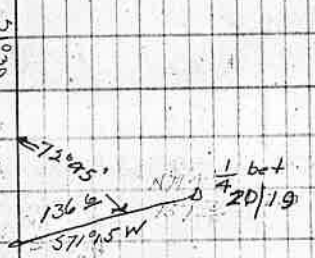
Traverse of Road

Stg.	Dist	ΔL	ΔR.	CC.	MC	
49						
	116°			S48°48'E		(3°49') Downhill — To be figured
Δ48			47°43'			
	63°			S 1°05'E	S1°30'E	(0°12') Uphill — To be figured
Δ47 should be figured			32°28'			
	86.8			S23°33'E	S23°30'E	(00°21') Uphill.
Δ46			25°40'			
	85°			S49°13'E	S49°35'E	(00°59') Uphill
Δ45			23°12			
	108.8			S72°25'E	S72°30'E	(00°12') Downhill
Δ44			55°40'			
	131.6			N51°55'E	N51°15'E	00°00' Downhill
Δ43			24°29'			
	68.9			N27°26'E	N26°45'E	(2°00') Uphill
Δ42			62°20'			
	144.6			N34°54'W	N35°00W	(2°04') Downhill
Δ41		108°38'				
	151.1			N 73°44'E	N73°10E	(4°34') Downhill
Δ40		3°41'				
	70.3			N77°25'E	N76°30'E	(6°17') Downhill
Δ39			51°34			
	43.4			N25°51'E	N25°15'E	(6°24') Downhill
Δ38 S.W Cor Plat N			115°59			S.W. Cor Plat N
	48.5			S89°57'W		(7°13') Downhill
Δ37		0°10'	10			

2-5-3-1
5-7-3-4
7C 8-5

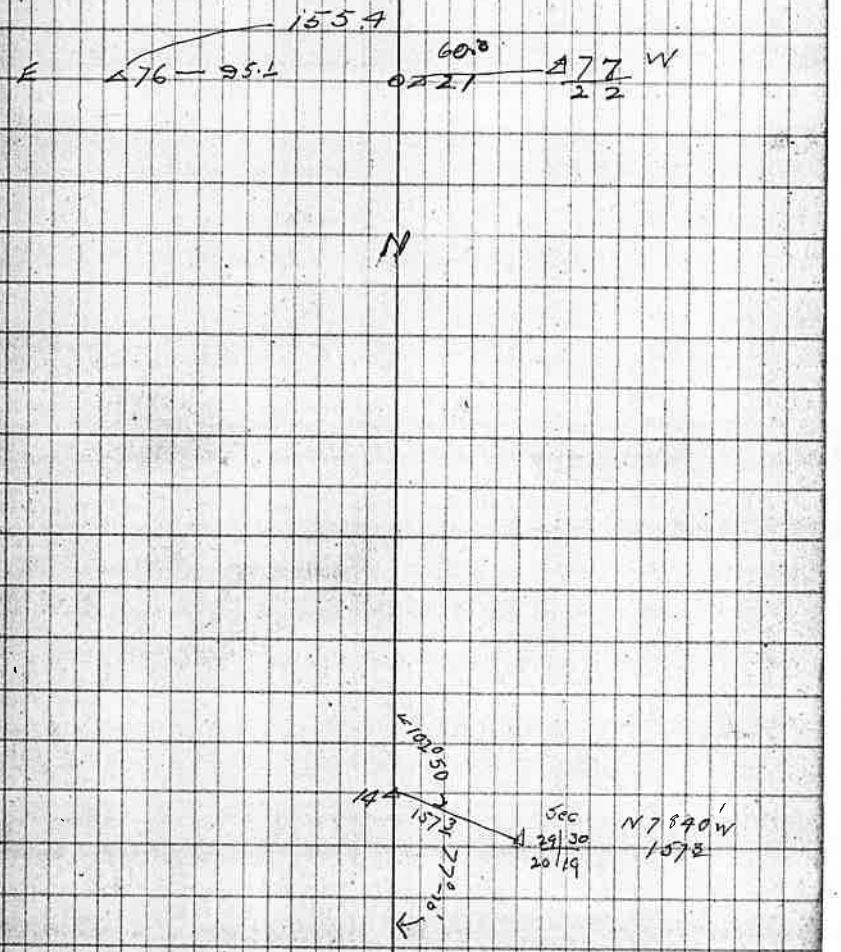
Portland Cement Co.
Variation 21°00'E (Should use (21°30') to agree with old Section lines)

Sta	Dist	ΔL	ΔR.	C.C	M.C.
	1287.5				
Δ 11					
	86.0				
Δ 10					
	920.3				
Δ 9					
6410	393.1				
Δ 8					
	251.9			51°30 E	51°25' E
Δ 7		1°30'			
	126.4			South	S 0°15 E
Δ 6			1°30'		
	138.7				
Δ 5					
	154.8				
Δ 4					
8302	1086.6				
Δ 3		1°30'		51°30' E	51°25' E
	231.8				
Δ 2					
	134.2				
Δ 1					
	124.0				
Cor- 18/17 19/20				South	



100.9 to Cl. Cor 3± East of Random Line

Sta.	Dist	ΔL	ΔR.	C.C	MC.
				N 69°44'W	
Δ22			0°37'		
	60.3				
Δ21			91°09	S89°39'W	
	229.9				
Δ20				S1°30'E	
	88.0				
Δ19					
	76.6				
Δ18					
	101.0				
Δ17					
	1335				
N16					
	1162.0				
15					
	808.4				
Δ14					
57.80					
76.40	154.0				
Δ13					
	192.2				
D17				S1°30E	



Line East

Sta.	Dist	ΔL	ΔR.	C.C.	MC
16/17					
20 19					
	28.3			N48°55'E	N49°0E
1314.0			48°55		
	104.0			North	
	127.4				
	58.8				
1024.0					
	51.7				
Δ6	972.3				
	270.9				
Δ5					
	212.8				
Δ4					
	654				
Δ3					
	473.2			North	
D2		90°19'			
	2553				
Δ1					
	2741.5			S89°41'E	S89°50'E
0+00 = 1320		88°11		S1°30E	

1332.7N
21.6E

E 21.6
N 18.7

N00°56'E

1332.7
21.6

Sta	Dist	ΔL	ΔR	C.C	M.C.
D11					
	158.4				
Δ10					
	161.6				
Δ9					
	104.0				
Δ8					
	125.8				
1/4 1315.7					
436.7 Δ7	162.9				
Δ6					
	70.9				
Δ5					
1062.9					
	104.3				
978.1 Δ4					
	98.9			50°50'W	500°55½'W
Δ3			1°00'		
879.2	155.8				
Δ2					
	310.9				
Δ1					
	412.5			500°10'E	South
D+0			49°31'		
				S89°41'E	

S87°43' 5.6 ¼ Cor between
S88°33'W 2021

Total Half
S 2648.4 W 31.0

63 W
25
3.8 W
56
9.4

True Line
S00°40'W

True line Quarter S00°35'W

2.5 E

Sta.	Dist	ΔL	ΔR	C.C.	M.C.
	121.6				
A23					
	92.8				
A22					
	78.8			S0050'W	S0°56'W
A21		00°46			
1966	107.7			S1°36'W	S1°30'W
A20			00°46'		
	167.1				
A19					
	258.5				
A18					
	50.8				
A17					
	53.8				
A16					
	140.5				
A15					
	133.6				
A14	107.5				
	157.1				
A13					
	132.2				
A12					
	107.3				

Sta.	Dist	ΔL	ΔR.	C.C.	M.C.
Δ35					
	79.2				
Δ34					
	119.7				
Δ33					
	66.4				
Δ32					
	63.4				
Δ31					
	67.2				
Δ30					
29 7.5	118			S00°20'W	
Δ31			00°44'		
	40.7			S00°24'E	S0°20'E
29		1°14'			
	92.6			S00°50'W	
28					
	46				
27					
25940	140.1				
Δ26					
24549	122.9				
Δ25					
	72.2				
Δ24				S00°50'W	

N00°26'E = N00°07'W

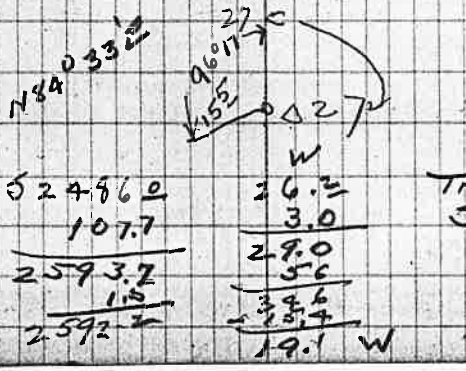
N00°32'E = North

S00°32'W = South

S89°25'W S89°57'W

24863 @ 50°50'W

1077 @ 51°36'W



52486.0
107.7
25937
1.0
25926

26.2
3.0
23.0
5.6
17.4
19.1 W

Sta.	Dist	ΔL	ΔR.	C. C.	M
Δ48					
22129	147.0				
Δ47					
20659	121.5				
Δ46					
1944.3	175.4				
Δ45					
	199.0				
Δ44					
	114.7				
Δ43					
	133.5				
Δ42					
13221	145.8				
Δ41					
	55.5				
Δ40					
	124.0				
Δ39					
9968	112.4				
Δ38					
	92.8				
Δ37					
	98.6			50°20'W	50°20'W
Δ36 6934					

Sta.	Dist.	Δ L	Δ R.	C. C.	M. C.
	1845				
60					
	1778				
Δ 59					
2991.0					
	3207				
Δ 58					
	417				
Δ 57					
	552				
Δ 56					
	3104				
Δ 55					
	145				
Δ 54					
	1547.5				
Δ 53					
	171.0			N89°31'W	N89°30'W
N 52 W 2686.1			90°09'		
	124.6				
Δ 51					
2559.2					
	1200				
Δ 50					
	1930				
Δ 49					
2346.7					
	1333			S 00°20'W	

52

64°05'

N 89°31 W

True Line S 00°27'W

1/4 bet 29830 219 & 52 × 64°05'

138.7 @ S 00°50 W

40.7 @ S 00°24' E

2512.1 @ S 00°20 W

7.7 N

20.5 ←

S 1.5

5138.5

W 2.0 E

40.7

0.3

2512.1

14.6

2691.3

16.6

S 7.7

2688.1

16.3

5.1

21.4

7.7 / 5.2 add W 15.4

5.1 E N 7.7

20.5

5.1

Sta.	Dist.	Δ L	Δ R	C. C.	M L
	12.3				
072					
48013.	164.7			S89°39W	S88/45
Δ71		00°50'			
	186.1			N89°31'W	
Δ70					
	163.6			N89°31'W	
Δ69					
42866	168.8				
Δ68					
41178	147.6				
Δ67					
	79.0				
Δ66					
3841.2	70.3				
Δ65					
	184.7				
Δ64					
3636.2	137.6				
Δ63					
35036	135.8				
062					
	138.0				
Δ61 3229.8					
	376.5			N89°31'W	

Sta.	Dist	∠	∠R.	C.C.	M.C
△79 5333.4					
	76.0				
△78					
	95.2				
○77 5162.2					
	155.4			N84°38'W	
△76 5006.8		00°07			
	70.6				
○75 4936.2					
	57.7			N89°31'W	N89°38 W
△74			00°50'		
	35.2			S89°39'W	
△73 (4947.7)					

1/4 bor bet 29 & 30

89.15

89.7

S1°07'W

5333

Diagonal Line

Sta.	Dist	ΔL	ΔR.	C. C	M.C.
	175.0				
Δ12					
	161.5				
Δ11					
Δ10	152.2				
Δ10					
	180.8				
Δ9					
	107.4				
Δ8					
	134.2				
Δ7					
	211.9				
Δ6					
	116.2				
Δ5			45°10'		
	17.6				
Δ4					
	223.2				
Δ3					
	299.4				
Δ2					
	133.2			S44°45E	
Δ1			44°58		
				S89°43'	

Sta	Dist	Δ L	Δ R.	C.C.	M.C
				N89°28'E	N89°30W
A3		90°59			
	2710			S00°27'W	
			00°12'	S00	
A21					
	87.2				
A20					
	336				
A19 2521.2					
	1874				
A18					
	273.7				
A17					
	227.8				
A16 1433.2					
	1493				
A15					
	3140				
A14 1369.2					
	1298				
A13				S00°15W	

155.3
160.9
74.6
71.6
46.9
71.1
83.0
86.3
120.3
870.0

Dolan

Variation 21°30

Sta.	Dist	Δ L	Δ R.	C. C.	M. C.
	128.4			N1°57E	N2°05E
			1°27'		
	126.0			N00°30'E	N60°35'E
		110°34'			
	58.8			S68°56'E	S68°35'W
			111°04		
	126.5				
	217.1				
	101.0				
	209.3				
	191.2				
1850,7					
	160.6				
	90.3				
	305.0				
	162.9				
	1132.9			North	North
Cor 31 32 Twp Line					North

Sta.	Dist.	Δ L	Δ R.	C.C.	M.C.
				N89°50E	N89°50
	155 3				
		00°35'		S89°25E	S89°25
			91°00'		
	172.7			N00°35W	
		90°25'			
				N89°50E	
		00°58'			
289.2	111.2			S89°02'E	S89°10E
			00°58		
	178°			N89°50E	N89°30E
		90°16'			
				N00°26W	
6649	76°			N00°27E	
			00°20'		
	130 9			N00°07'E	N00°20E
		00°20'			
	204			N00°27E	N00°35E
		130'			

Levels for Proposed Sewer on Mill Street

Sta.	B.S.	H.I.	F.S.	Elev.
1+32.7			697	101.48
1+00			645	107.60
3+74.0			553	102.42
2+00			453	103.62
T.P.	394	108.45	436	104.51
2+50			458	104.29
2+35.0			457	104.30
2+09.4			453	104.34
1+64.4			529	103.67
1+21.3			528	103.59
1+06			494	103.93
0+55			678	102.09
0+21			693	101.94
		108.87	740	101.47
0+00	8.87			100.00

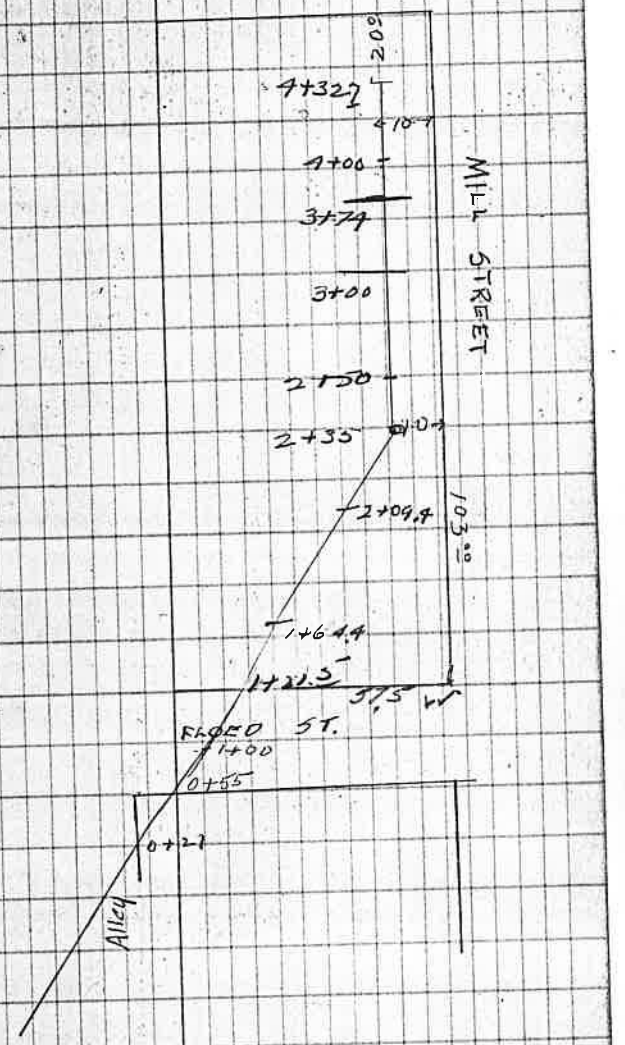
Checked R.W.

		00°31'R	108.45
			209
End		1°57'L	106.36
			300
		1°20'R	109.36
Pin		00°35'L	
Fence Line			
Fence Line			
Pin			
Angle			
Fence			
Fence			
Property Line	575 west from Corner		
Fence Line			
Fence			

Top of Ground at 0+00

Bottom of Tile at point Indicated by Grade's.

1+32.7				
4+00				
3+74°	Fence Line			
~~2+42~~ 3+00	Fence			
2+50				
2+35°	Angle			
2+09.4	Fence			
~~649~~ ~~1+63.4~~	Fence Line			
1+21.5	P L			
1+00				
0+55		150°	E	
0+21		30 3	3	



11-17-11 65

Sta.	Dist	ΔR	ΔL	C.C	M.C

Sta #2 to
Sta #.5 Rx.
Sta #1 to

19°42'

N 12° 30' W
S 19° 42'
S 87° 30' E



Survey of tract of land for M. Martin.

Sta	Dist.	ΔR	Δ W	M.C.	C.C.
Sta 1					
	967				
Sta 11 Δ					
Sta 10 Δ	818.8				
Sta 9	98.5			N87°30'E	
Sta 8	517.2			N87°30'E	
Sta 7	262.7			N87°30'E	
Sta 6 Δ	304.2			N87°30 E	
Sta 5	125.8	23°33'		S32°05' W	S32°21' W
Sta 4	106.3	20°21'		S8° 40' W	S8°48' W
Sta 3	87.9		37°10'	S13° 00 E	S11°33' E
Sta 2	371.3	12°51'		S24° 46' W	S25°37' W
Sta 1	180.1		79° 44'	S12° 30' W	S12° 46' W
Sta. 1				S87°30'E	S87°30' W

6

11-17-11

70.0 acres.

NW Cor. His 531.9 ft from NE and SE cors on N and S boundaries of 10 acre corners.

SE Cor.

SW Cor.

NW Cor.

Hicks
Worstell
Flesch
Nov 22, 1911

Resurvey for A. U. Starmer

Sta.	Dist	Δ L	Δ R.	C.C.	M.
	976			N87°08'W	
			6°03'		
	472			N81°05'W	
			1°05'		
	1320			N82°10'W	N81°09'W
			2°14'		
	844			N84°24'W	
			2°43'		
	2586			N87°07'W	
		1°36'			
	69.7			N85°31'W	
			4°35' +		
	1809			S89°54'W	
		100°10'			
	94			N10°04'E	
		15°25'			
	795.4			N10°04'E	
	2520		N2 E	N25°29'E	N26°E
Δ 2		85°49'			
	436 2				
Δ 1					
	1462.6		56° E	S68°42'E	S68°E
0+00					
0+	229.3				

Fence
Fence Cor.

14626
436 2
1898.8
2293
2128.1

Sta.	Dist	ΔL	ΔR	C.C	N	
	150 3			S22°59'W		
	860			59°47'W		
	195 1			53°53'W		
	89.1			N85°6'W		
	185.7			N3°58'E	N5°35	N6°35 E
			153°32			
	123.1			S50°26'W		S58°10'W
		43°33'				Angle around the Barn
	315.3	~~45°33'~~	148'	N86°23'W	N85°20'	
			1056'			
1733	174.3			N84°15'W	N4°40'W	
			1009'			
1402	140.7			N85°25'W		
	1382	00°13'				
	434.2			N85°12'W		
		00°01				
	102.8			N85°1'W		N5°07
		1°31'				
	119.7			N83°40'W		
			3°28			

1°

123.1

22°59
88°19
111 18
179 60
68 42

190.0
4.3
185.7

189.1 through

Lot for Harding Land Co.

Sta.	Dist	ΔL	DR.	C.C.	M
Magnetic Course of Reef N75°00'W					
	74° @ 20°41 R.A.	69.2	Horizontal Distance	N15°32'W	N16°
			89°04		
W Stake for Water Fitting	196 9			S75°24'W	S74° 40'W
		98°26'	~~98°~~		
Δ18					
				N6°00W	
	90.7			S88°00'E	
Δ11			4°00'		
	90.7			N88°00'E	
S.W.Cor Lot 12					

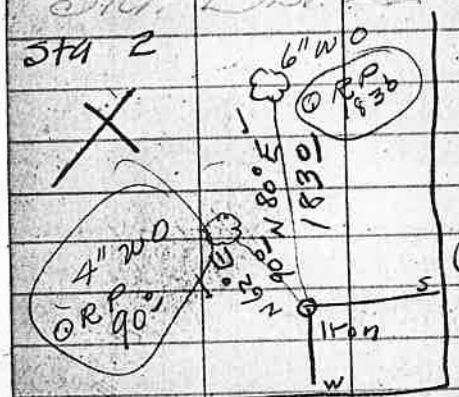
98°

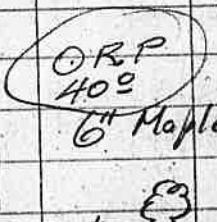
97.° North to Fence

20.° East to House

Sta. Dist. Az. C.C. M.C.

Sta 2

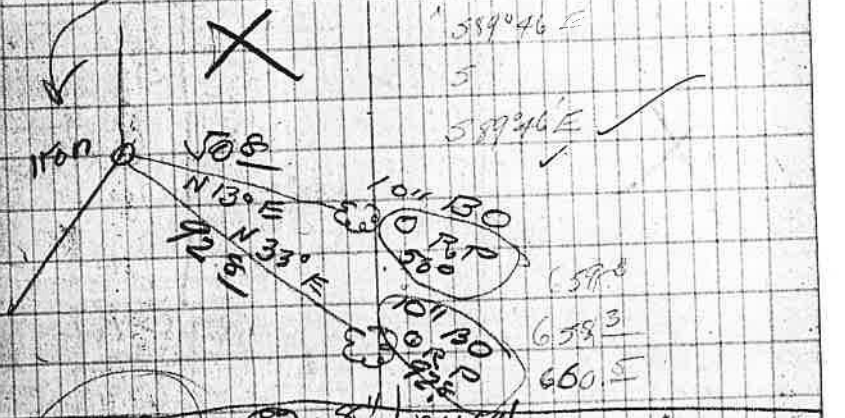






T.P. to iron at Sta 5 11+75

Sta 4 7+25.2



S 89° 46' E

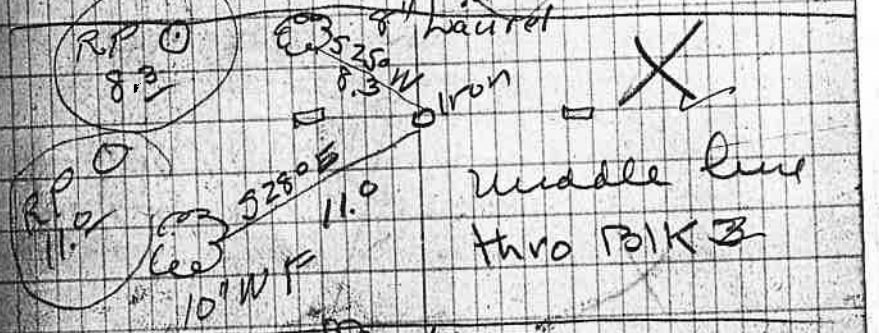
S 89° 46' E

S 89° 46' E

(5R-8

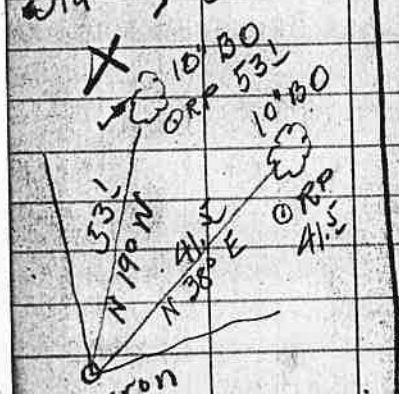
6583

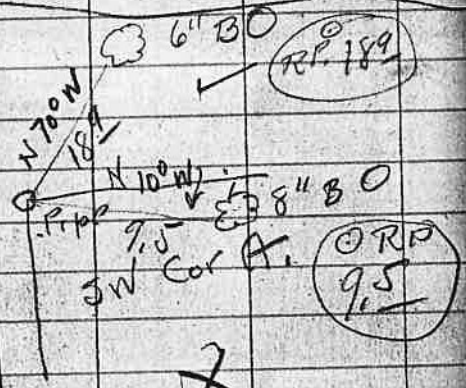
660.5

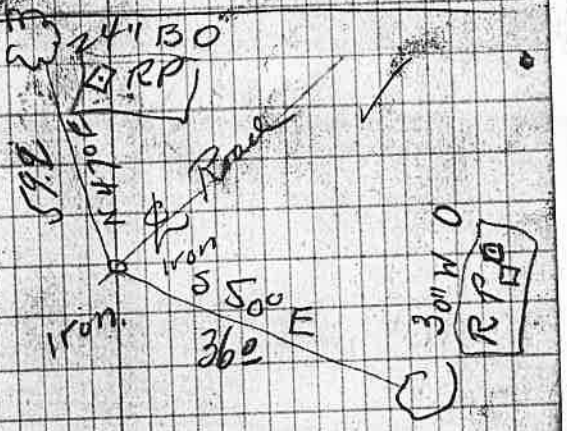


Middle line thro B/K 3

Sta 3 5+40



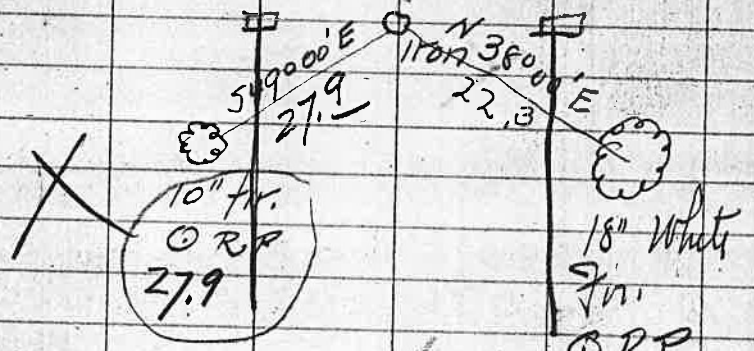




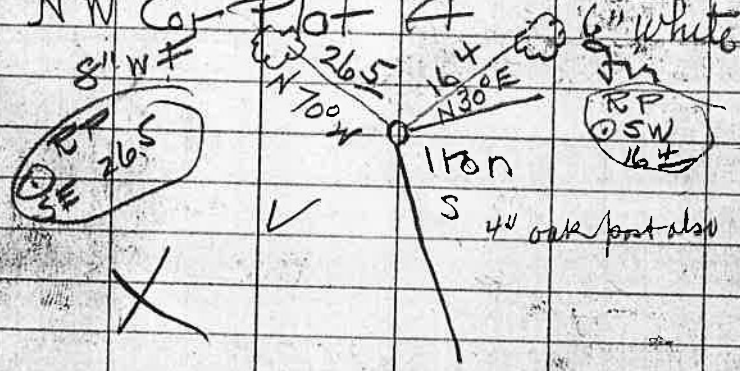
S road

W 2 + 3

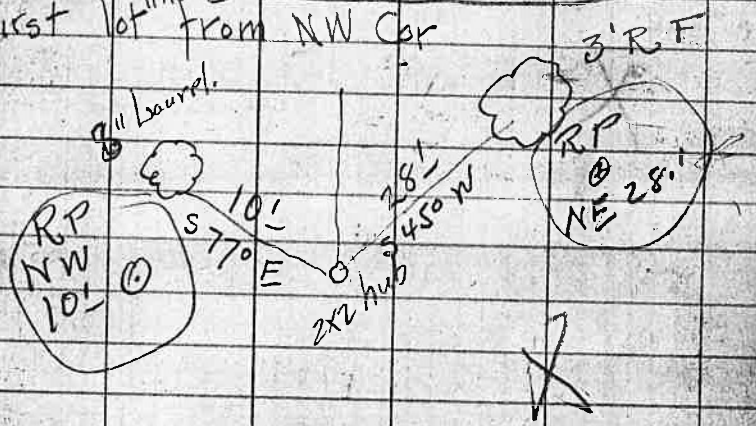
West line N Road.



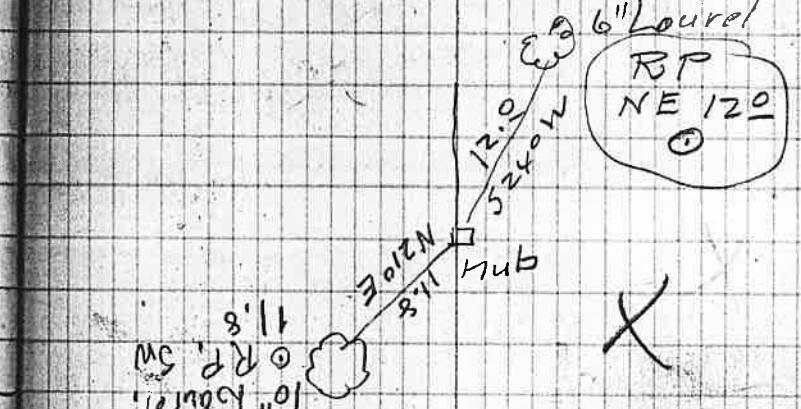
NW Cor Lot A



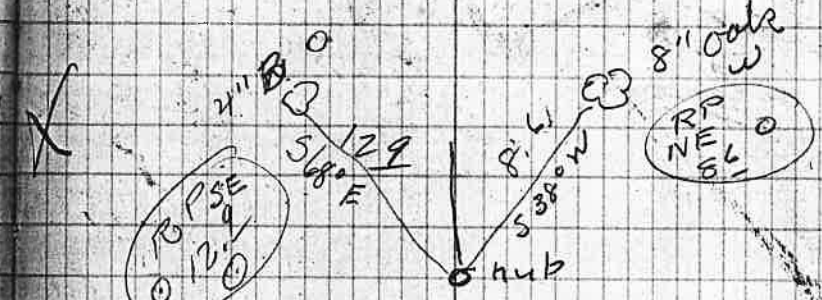
First lot line E from NW Cor

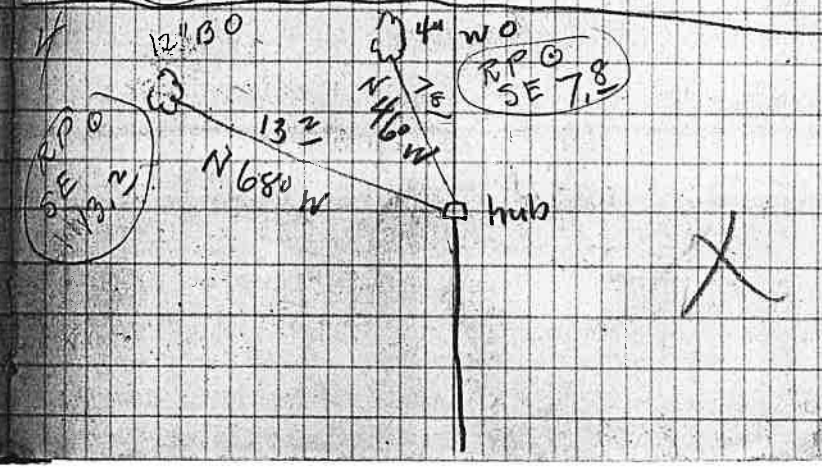


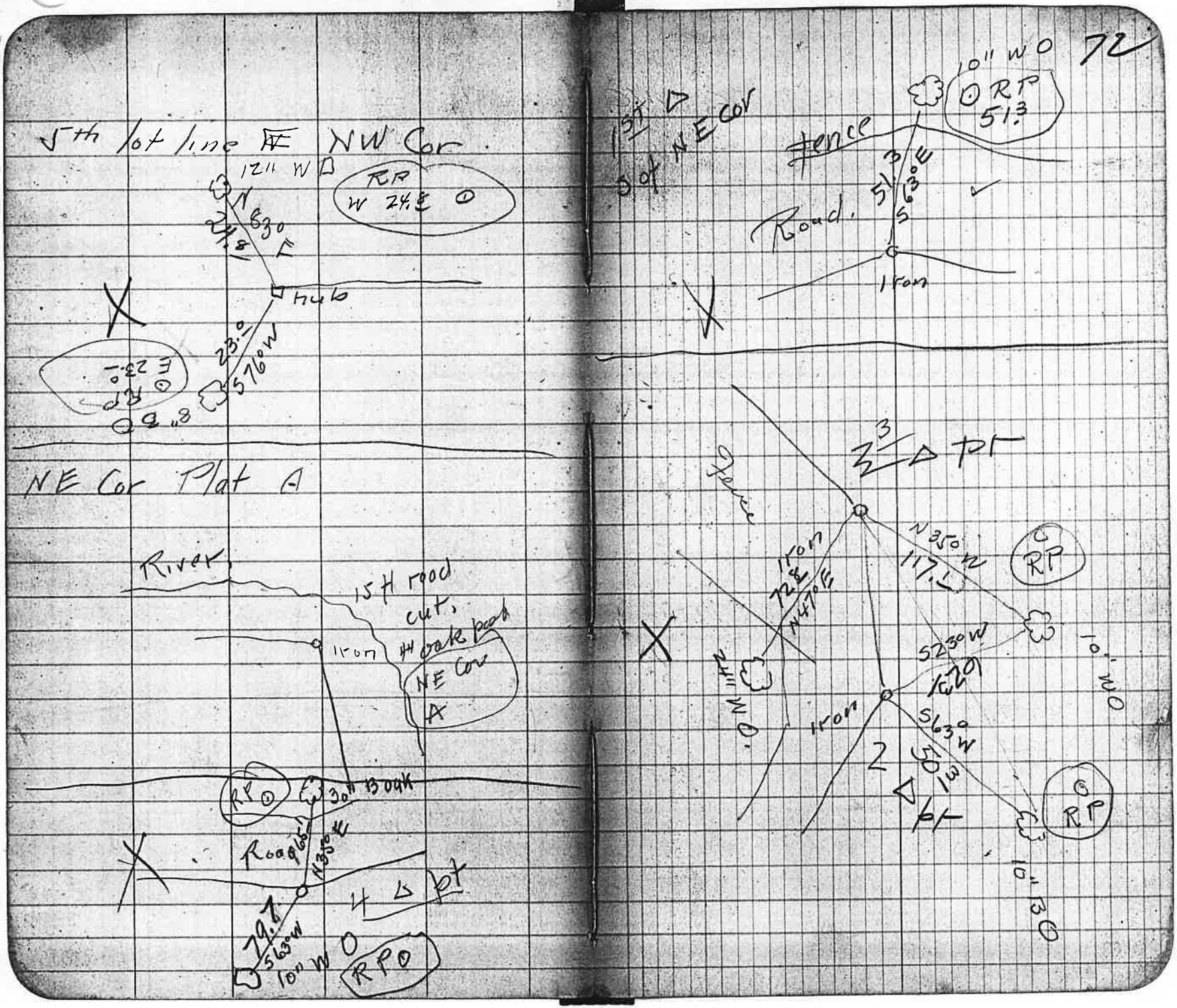
2 lot line E from NW Cor



3rd. lot line E from NW Cor






72
Nth lot line NW Cor
12" WB
RP
W 24 E
N 63° E
hub
23.0
S 76° W
RP
E 23.0
0.8
NE Cor Plat A
River
15th road
cut,
oak post
NE Cor
A
iron
RP
30" Bonk
Road
N 35° E
19.1
S 63° W
10" WO
RPO
4 Δ pt
15th Δ
S of NE Cor
Fence
10" WO
RP
51.3
Road.
S 63° E
51
Iron
Δ pt
Fence
N 35° W
117.1
RP
72 E
N 47° E
iron
11" WO
S 23° W
16.0
10" WO
S 63° W
50.3
2
Δ pt
RP
10" BO

Sta.	Dist	ΔL	ΔR.	C.C.	M.C.
	60.7				
	63.0				
14					
	99.4				
13					
	129.0				
Δ12					
	181.3				
Δ11					
	39.2				
Δ10			0°11'		
	124.8				
Δ9		00°11'			
	90.5			589°19'W	
Δ6			00°35'		
	83.3				
Δ5		1°10'			
	91.2				
Δ4			00°35'		
	73.7				
Δ3					
	99.4				
Δ*2					
	103.4				
Δ1		00°28'			
	94.5				
ΔOtoO			89°27'	S00°50W	

67 41
85°40'
152 90
179 60
153 30
N 26 30 E

723 to curve

1600
1050
400
2500
600
400
6600

94.5
103.4
99.4
73.7
91.2
460.2
83.3
543.5
90.5
634.0
124.8
39.2
181.3
979.3
129.0
1109.3
99.4
63.0
1270.7

24
60
1440
1500

1261.56
816
816
798.26

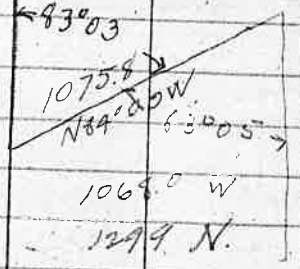
1320
2294.2

(1331.7) Total Distance

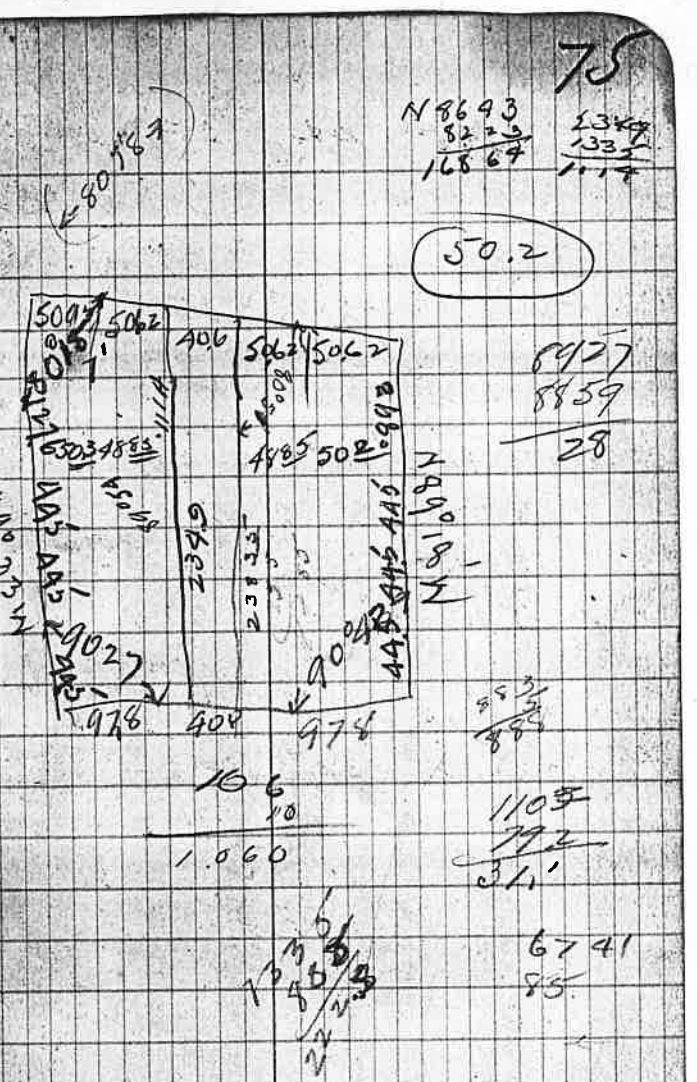
94.5 1331.7
103.4 1108.3
99.4 223.4
73.7
91.2 1331.7
460.2 1270.7
83.3 60.7
543.5
90.5 8950
634.0 50
124.8 89108
39.2 8960
181.3 9048
979.3 8912
129.0 14.76
1109.3 66
99.4 848.56
63.0 848.56
1270.7 9337.16
14.76
66
8856
8856
9774.16
1320
2294.2

74

999.0
275.7
1274.7



Sta.	Dist	ΔL	ΔR	C.C.	M.C.
18	885.3		8833		
66	.0442		999		
108	1770L		1967	8641	
108	35412	79677	79677	1644	
114	35412	79677	79677	878	
	39.1302L	8841477		1436	
	.1346	9909	2086		
	1659	1659	1257		
	1214	89181	1328		
	6730	49545	9356		
	8076	59454	1141.2		
	1346	9909			
	22.3014	164.3934	1083		
	1083	39.1	8664		
	585	22.3	1083		
	5415	61.4	1083		
	8664	2.0	8664		
	5415	63.4	8764.3		
	63.3555				
	W	999.5			
	1089			535°48'W	536°0'E
			43°32		
	1659			51°44'E	
		5°12			
	885.3			61°32'E	
		7°32'			



½ Schmeisser

Schmeisser's Description

Beginning at S. E. cor. Aaron Rhea Claim * 39 in Sec 30, T 27 S, R 5 W

thence West 432-2

N 55° 00 W	84.0
N 41° 30 E	80.0
N 55 00 W	100.0
N 41° 30 E	175.5
N 10 30 E	118.5
S 87° 00 E	100.0
N 10 30 E	80
S 86° 43 E	278.0
S	471

Heidin

719
120.1
194.0
142.6
49.4

29.70

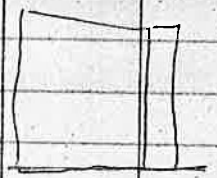


Table IV.—Minutes in Decimals of a Degree.

1	.0167	11	.1833	21	.3500	31	.5167	41	.6833	51	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

Table V.—Inches in Decimals of a Foot.

1/16	.0052	3-32	.0078	1/8	.0104	3-16	.0156	¼	.0208	5-16	.0260
⅜	.0313	½	.0417	5/8	.0521	¾	.0625	7/8	.0729		
1	.0833	2	.1667	3	.2500	4	.3333	5	.4167	6	.5000
7	.5833	8	.6667	9	.7500	10	.8333	11	.9167		

Table VI.—Radii, Ordinates and Deflections.

Deg.	Radius	Mid. Ord.	Tan Def.	Chd Def.	Def. for 1 Foot	Deg.	Radius	Mid. Ord.	Tan Def.	Chd. Def.	Def. for 1 Foot
10	34377.7	.036	.145	.291	0.05	17°	819.0	1.528	6.105	12.21	2.10′
20	17189.	.073	.291	.582	0.10	20′	781.8	1.600	6.395	12.79	2.20
30	11459.	.109	.436	.873	0.15	30	764.5	1.637	6.540	13.08	2.25
40	8594.4	.145	.582	1.164	0.20	40	747.9	1.673	6.685	13.37	2.30
50	6875.5	.182	.727	1.454	0.25	8	716.8	1.746	6.976	13.95	2.40
0	5729.6	.218	.873	1.745	0.30	20	688.2	1.819	7.266	14.53	2.50
10	4911.2	.255	1.018	2.036	0.35	30	674.7	1.855	7.411	14.82	2.55
20	4297.3	.291	1.164	2.327	0.40	40	661.7	1.892	7.556	15.11	2.60
30	3819.8	.327	1.309	2.618	0.45	9	637.3	1.965	7.846	15.69	2.70
40	3437.9	.364	1.454	2.909	0.50	20	614.6	2.037	8.136	16 27	2.80
50	3125.4	.400	1.600	3.200	0.55	30	603.8	2.074	8.281	16.56	2.85
	2864.9	.436	1.745	3.490	0.60	40	593.4	2.110	8.426	16 85	2.90
10	2644.6	.473	1.891	3.781	0.65	10	578.7	2.183	8.716	17.43	3.00
20	2455.7	.509	2.036	4.072	0.70	30	546.4	2.292	9.150	18.30	3.15
30	2292.0	.545	2.181	4.363	0.75	11	521.7	2.402	9.585	19.16	3.30
40	2148.8	.582	2.327	4.654	0.80	30	499.1	2.511	10.02	20.04	3.45
50	2022.4	.618	2.472	4.945	0.85	12	478.3	2.620	10.45	20.91	3.60
	1910.1	.655	2.618	5.235	0.90	30	459 3	2.730	10.89	21 77	3.75
10	1809.6	.691	2.763	5.526	0.95	13	441.7	2.839	11.32	22.64	3.90
20	1719.1	.727	2.908	5.817	1.00	30	425.4	2.949	11.75	23.51	4.05
30	1637.8	.764	3.054	6.108	1.05	14	410 3	3.058	12.18	24 37	4.20
40	1562.9	.800	3.199	6.398	1.10	30	396 2	3.168	12.62	25.24	4.35
50	1495.0	.836	3.345	6.689	1.15	15	383.1	3.277	13.05	26.11	4 50
	1432.7	.873	3.490	6.980	1.20	30	370 8	3.387	13.49	26.97	4.65
10	1375.4	.909	3.635	7.271	1.25	16	359.3	3.496	13.92	27 84	4.80
20	1322.5	.945	3.718	7.561	1.30	30	348.5	3.606	14 35	28.70	4 95
30	1273.6	.982	3.926	7.852	1.35	17	338 3	3.716	14.78	29.56	5.10
40	1228.1	1.018	4.071	8.143	1.40	18	319 6	3.935	15 64	31.29	5.40
50	1185.8	1.055	4.217	8.433	1.45	19	302 9	4.155	16 51	33.01	5 70
	1146.3	1.091	4 362	8.724	1 50	20	287.9	4.374	17.37	34.73	6 00
10	1109.3	1.127	4.507	9.014	1.55	21	274.4	4.594	18.22	36 44	6 30
29	1074.7	1.164	4.653	9.305	1.60	22	262 0	4.814	19 08	38.16	6.60
30	1042.1	1.200	4.798	9.596	1.65	23	250.8	5 035	19.94	39 87	6.90
40	1011.5	1.237	4.943	9.886	1.70	24	240 5	5.255	20.79	41.58	7.20
50	982.6	1.273	5.088	10.18	1.75	25	231.0	5.476	21 64	43.28	7.50
	955.4	1.309	5.234	10.47	1.80	26	222.3	5.697	22 50	44.99	7.80
10	929.6	1.346	5.379	10.76	1.85	27	214.2	5.918	23.35	46.69	8.10
20	905.1	1.382	5.524	11 05	1 90	28	206 7	6.139	24.19	48.38	8 40
30	881.9	1.418	5.669	11.34	1 95	29	199 7	6.360	25.04	50.07	8.70
40	859.9	1.455	5.814	11.63	2.00	30	193.2	6.583	25.88	51.76	9.00

EUGENE DIETZGEN CO.
MANUFACTURERS & IMPORTERS OF
DRAWING MATERIALS AND
SURVEYING INSTRUMENTS
NEW YORK, CHICAGO,
NEW ORLEANS & SAN FRANCISCO.

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	7.00	7.15	7.30	7.45	7.60	7.75	7.90	8.05	8.20	8.35	0
1	8.50	8.65	8.80	8.95	9.10	9.25	9.40	9.55	9.70	9.85	1
2	10.00	10.15	10.30	10.45	10.60	10.75	10.90	11.05	11.20	11.35	2
3	11.50	11.65	11.80	11.95	12.10	12.25	12.40	12.55	12.70	12.85	3
4	13.00	13.15	13.30	13.45	13.60	13.75	13.90	14.05	14.20	14.35	4
5	14.50	14.65	14.80	14.95	15.10	15.25	15.40	15.55	15.70	15.85	5
6	16.00	16.15	16.30	16.45	16.60	16.75	16.90	17.05	17.20	17.35	6
7	17.50	17.65	17.80	17.95	18.10	18.25	18.40	18.55	18.70	18.85	7
8	19.00	19.15	19.30	19.45	19.60	19.75	19.90	20.05	20.20	20.35	8
9	20.50	20.65	20.80	20.95	21.10	21.25	21.40	21.55	21.70	21.85	9
10	22.00	22.15	22.30	22.45	22.60	22.75	22.90	23.05	23.20	23.35	10
11	23.50	23.65	23.80	23.95	24.10	24.25	24.40	24.55	24.70	24.85	11
12	25.00	25.15	25.30	25.45	25.60	25.75	25.90	26.05	26.20	26.35	12
13	26.50	26.65	26.80	26.95	27.10	27.25	27.40	27.55	27.70	27.85	13
14	28.00	28.15	28.30	28.45	28.60	28.75	28.90	29.05	29.20	29.35	14
15	29.50	29.65	29.80	29.95	30.10	30.25	30.40	30.55	30.70	30.85	15
16	31.00	31.15	31.30	31.45	31.60	31.75	31.90	32.05	32.20	32.35	16
17	32.50	32.65	32.80	32.95	33.10	33.25	33.40	33.55	33.70	33.85	17
18	34.00	34.15	34.30	34.45	34.60	34.75	34.90	35.05	35.20	35.35	18
19	35.50	35.65	35.80	35.95	36.10	36.25	36.40	36.55	36.70	36.85	19
20	37.00	37.15	37.30	37.45	37.60	37.75	37.90	38.05	38.20	38.35	20
21	38.50	38.65	38.80	38.95	39.10	39.25	39.40	39.55	39.70	39.85	21
22	40.00	40.15	40.30	40.45	40.60	40.75	40.90	41.05	41.20	41.35	22
23	41.50	41.65	41.80	41.95	42.10	42.25	42.40	42.55	42.70	42.85	23
24	43.00	43.15	43.30	43.45	43.60	43.75	43.90	44.05	44.20	44.35	24
25	44.50	44.65	44.80	44.95	45.10	45.25	45.40	45.55	45.70	45.85	25
26	46.00	46.15	46.30	46.45	46.60	46.75	46.90	47.05	47.20	47.35	26
27	47.50	47.65	47.80	47.95	48.10	48.25	48.40	48.55	48.70	48.85	27
28	49.00	49.15	49.30	49.45	49.60	49.75	49.90	50.05	50.20	50.35	28
29	50.50	50.65	50.80	50.95	51.10	51.25	51.40	51.55	51.70	51.85	29
30	52.00	52.15	52.30	52.45	52.60	52.75	52.90	53.05	53.20	53.35	30
31	53.50	53.65	53.80	53.95	54.10	54.25	54.40	54.55	54.70	54.85	31
32	55.00	55.15	55.30	55.45	55.60	55.75	55.90	56.05	56.20	56.35	32
33	56.50	56.65	56.80	56.95	57.10	57.25	57.40	57.55	57.70	57.85	33
34	58.00	58.15	58.30	58.45	58.60	58.75	58.90	59.05	59.20	59.35	34
35	59.50	59.65	59.80	59.95	60.10	60.25	60.40	60.55	60.70	60.85	35
36	61.00	61.15	61.30	61.45	61.60	61.75	61.90	62.05	62.20	62.35	36
37	62.50	62.65	62.80	62.95	63.10	63.25	63.40	63.55	63.70	63.85	37
38	64.00	64.15	64.30	64.45	64.60	64.75	64.90	65.05	65.20	65.35	38
39	65.50	65.65	65.80	65.95	66.10	66.25	66.40	66.55	66.70	66.85	39
40	67.00	67.15	67.30	67.45	67.60	67.75	67.90	68.05	68.20	68.35	40

Calculated by F. E. Paradis, C. E.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 16 FEET WIDE. SIDE SLOPES 1½ TO 1.
FOR SINGLE TRACK EMBANKMENT.

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

Calculated by F. E. Paradis, C. E.