~~6~~ 6

67

792

1908

702

ELD BOOK

400

~~6~~

INDEX

67

Eugene Sehauts
C.E.
Logan Utah

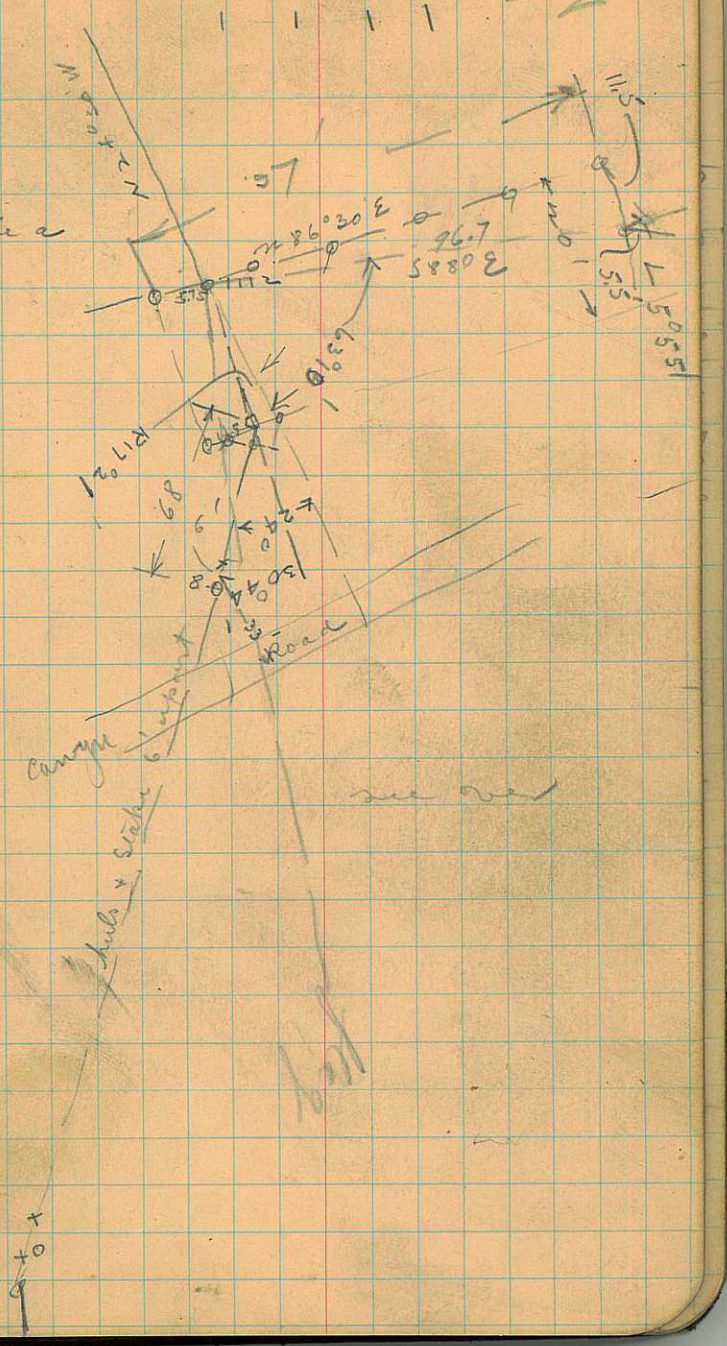
No Smithfield
City notes in
here since 1913

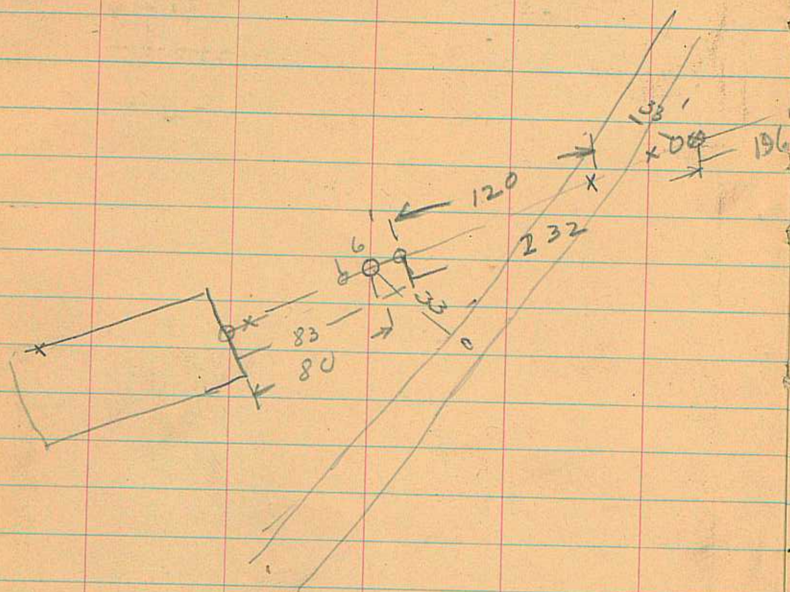
Surv for T. P. Co.

7/29/08

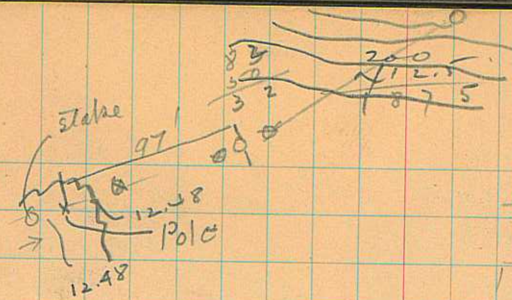
Beg from ℄ pole a

Pole No		
0		
	4'	thence for 1' to pole
1		
2	72'	
3	163	
4	~~210~~ Slope	
5	~~300~~	
6	235	
7	177	
8	~~182.7~~	
	68	to Switch Sta.





42°45'



4

.7343
17
51401
7343
12.4831

Sur for Jno Yeates

Beg at SW cor lot 2, Blk 19
Millvill west field Sur.
N 10 ch
Beg again at post SW cor 3
N 2.525
N 10.135

to post at SW cor lot 3

to end of Job Smith picket fence
to post supposed to be NW cor lot 3

Estimate of Concrete

Walls $\frac{2 \times 15 \times 220}{27}$ (15 struck out, 5 written above; 27 struck out, 9 written below) $\frac{2200}{9} = 244$ yds

cor. $\frac{2 \times 2 \times 15 \times 4}{27}$ (15 struck out, 5 written above; 27 struck out, 9 written below) $\frac{80}{9} =$ 9 yds

footing $= \frac{1 \times 4 \times 230}{27} = \frac{920}{27}$ 33 yds

floor $\frac{.7 \times 3000}{27}$ (3000 struck out, 1000 written above; 27 struck out, 9 written below) $\frac{700}{9} =$ 77 yds

Roof $\frac{.4 \times 3000}{27}$ (3000 struck out, 100 written above; 27 struck out, 9 written below) $= \frac{400}{9} =$ 44

$\frac{.7 \times 1.2 \times 340}{27}$

11
3
421
7
294

Rechmond Res.

.135
66
810
810
8.910

2200
1100
3300

2,4

340
1.2
680
340
408.0
.7
285.6 27

120

240
1.45
335

3000
3300
6300
3000
9300
1030

Res. ... with plaster -3700

Sur at Hyrum Utah
on Pav. Dist.

Beg at steel pin intes. 1st W
& Main

E 760
786
1517.7

2 (1517.7
758.85

386
758.85
2715
2600

27.15
26
1.15

117.6 660
1320
1518

660
99
759
99
198

8 - 1400
117.6
1517.6

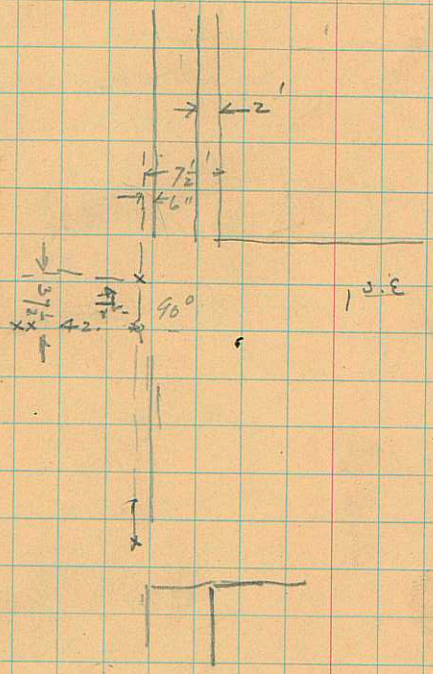
to approx. pt for mon. bst.
to pencil mark on new pole
to back monument intes 1st E & Main

130
75
4.5

495
75
42.0
12

495
12
37.5

495
135



45
120

435
12

3
42.5
6

497.62
4.53
502.15
5.1
497.05

502.15
5.16
496.99
3.3
500.29

Sta	BS	FS	an	Ele	HT
	4.53			497.62	502.15
				497.50	
				497.05	cor finish 9/2/08
				497.00	
		5.16		496.99	
				495.50	
	3.30				500.29
				495.	
				497.	
				496.75	
				493.1	
18					
18+25			3.39	492.75	496.14
18+50			3.78	492.36	
18+75			4.23	491.91	
19			4.72	491.42	
19+25			5.26	490.88	
19+50			5.94	490.2	
19+75			6.74	489.4	
20+			7.64	488.5	
20+25			8.60	487.54	
20+50			9.64	486.5	
20+75			10.74	485.4	
21			11.94	484.2	
21+25			13.24	482.9	
21+50			14.64	481.5	
~~21+75~~			1		496.14
~~21~~					
21+85			16.66	479.5	
18+13	1.90	6.055	7.29	493	500.29

See page for amended elevations

478
1.24
6.02

NE · NW · SW · SE

cement NE cor intes 1st E & Main
NW cor " " "
NE cor " Center & Main.
NW cor " " "
NE cor " 1st West & Main
NW cor " " "

Sta 18. 2793 ft. west of cor.

RR mark cut	cut
cut 1.18	2.21
cut 1.28	2.58
cut 1.8	2.43
3.18	1.54 ~~3.18~~
4.73	.53
5.26	.68
5.70	1.04
6.15	1.49
7.32	1.28
8.15	1.49 ~~2.71~~
8.23	2.51
9.56	2.38
10.92	2.32
12.46	2.18 : 2 1/2"
14.63	2'
6.05	1.24

Ele on Mark 494.24

(10)

1800
15.207
279.3

500.29
4.93
7.29

7.29
6.05
1.24

4.72
3.18
1.54

3.39
1.18
2.21

1800
2793
15207

5.26
4.73
.53

1813
15207
2923

Profile shows SE cor Blk 496.75

6.05
4.61
1.40

6.00
1.4
.64

500.29
6.05
494.24
1.9
496.14
492.75
3.39

496.14
481.5
14.64

Sta	BS	FS	Int	Ele	HI	
		402		498.25	502.27	on door way Allen Store
			4.41	496.86		NW cor in inter 1st E + M S. edge Walk
			5.51			on curb
				496.75		NW cor inter 1st W + M
			4.90	497.00		NE cor " " " "
	4.28			497.62	501.90	
			4.92			on N edge cement
			5.14			curb
			3.93			on step S. entrance to Hall
			5.15	496.75		
			5.19			
			4.60			9" below
			5.39			on curb.
			4.96			on curb
			5.20			3' above top
			5.14			2 1/4
			5.04			
			4.72			on pro. line
						on N edg cement

Note change

Computations in margins:

497.14 / 496.86; 497.00 - 12 = 83.00; 498.25 + 4.02 = 502.27; 502.27 - 496.86 = 5.41

496.86 / 497.00

497.62 + 4.28 = 501.90; 501.90 - 4.97 = 4.90; 4.92; 5.12

5.14 / 4.30 / .84

501.90 - 496.75 = 5.15

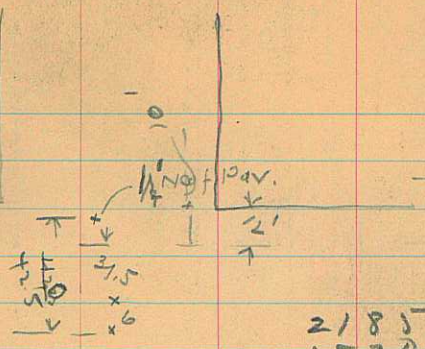
5.19 - 4.6 = .59; .12; .59; 7.08

5.20 - 4.96 = .24

5.04 - 4.96 = .8

5.14 - 4.96 = .18; .12; .36; .18; 2.16

see over

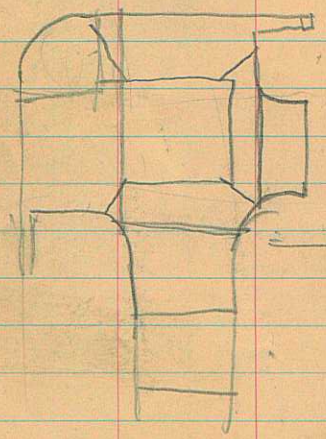


21.5
11
42.5
16

2185
1520
665

496.14
4815
1464
1246
2.18

1324
1092
2.32



495
330
379.5
42.5
3370

47.5
47
94.5

10.74
823
2.51

10.74
1815
2.59

496.14
485.4
10.74

496.14
484.2
11.94

496.14
4829
13.24

764
615
149

496.14
490.2
5.94

423
243
1.80

11.94
956
2.38

496.14
492.36
3.78

496.14
4885
7.64

5.94
526
.68

378
250
1.28

496.14
4914.2
4.72

496.14
4891.91
4.23

496.14
487.54
8.60

674
57
1.04

496.14
4894
6.74

496.14
4890.88
5.26

860
732
1.28

496.14
4745
16.66

12.00

496.14
4865
9.64
815
1.49

496.14
4829
13.24

82.5
12
94.5
45
9

Sta	BS	FS	an	El	HI
change		N E	cor.	Center 1st W & M.	
				497.43	501.90
			4.71		
			4.30		
			4.51		
N E cor				495.50	
				495	
		4.17		495.95	500.12
		4.76		495.36	
		4.86			
			4.99		
N W cor			5.12		
			5.16		
			5.36		

501.9
497.43
4.47
.24
4.78

5.14
.43
4.71

4.90
.43
4.47

.41
.12
.82
.41
4.92

43

on curb
4 7/8 below mark
N edge cement

N E cor Center — center & Main
N W cor " — " — "
step to Hat Store — 500.12 — 495.95
on S edge
on curb

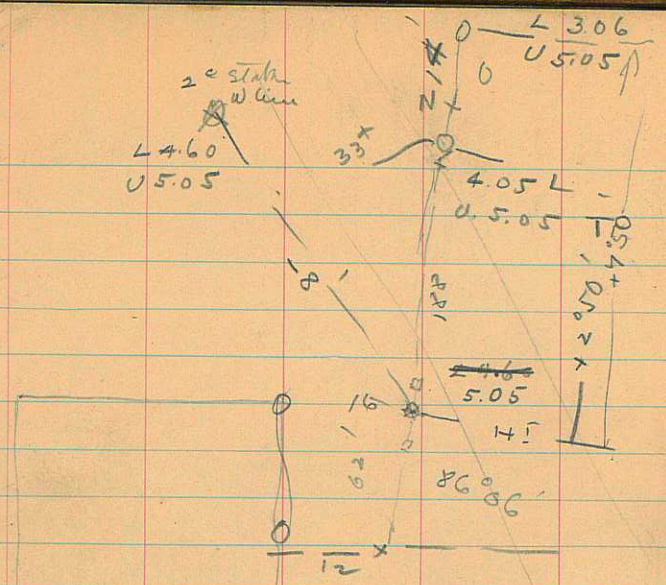
500.12
4.95
5.12

495.95
4.17
500.12
495.36
4.76

495.50
.14
495.36

4.99 4.78
4.86
.13
.12
.26
.13
1.6

on side Grade
N edge
on curb



from 16 to 15 + 9°06' { L 2.51 / U 5.05

Sta	BS	FS	on	Ele	HI
		3.90		498.25	502.15
				496.76	
			4.91		
			5.01		
			3.88		
		3.51		498.25	501.76
		#	4.90	496.86	

Hymn Mat

– 20 –

door way allen Store on curb

on grade 7 out [illegible] ser inter 1st

on grade Sand crossing on W side of 1st + Main

498.25
3.9
502.15
497.04
24
496.76
502.15
496.76
5.39

501.76
496.86
4.90

5.01
.5
4.51

498.25
3.51
501.76
497.00
.14
86

4.82
.1
4.92
.25
4.67
.4
4.27

4.43
4.27
.16
4.92
.5
4.42

Sur for Telluride Power Co.

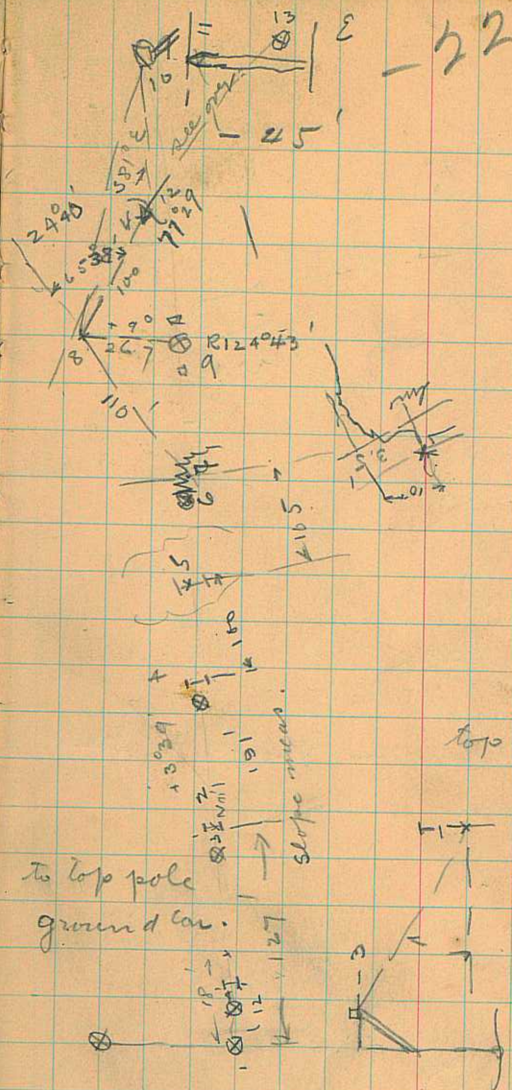
Grading E & W line from Switch Sta and E to Power Sta.

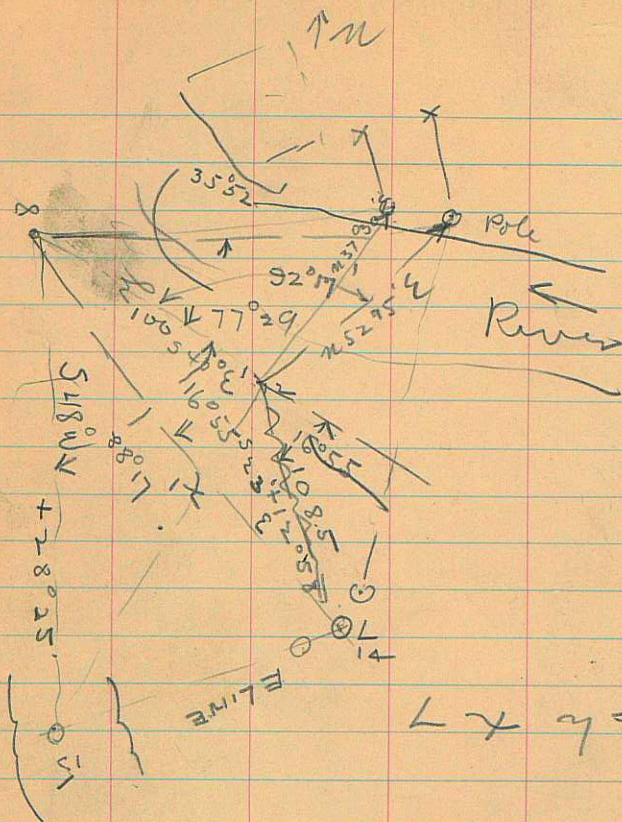
	Dist	∠ L^s	R	L^s or +	HI
1					
2				-45'	
3 / 2				+1°34	
4				+3°39'	
5				+8°29	4.60
6	94.0			+3°43	
5	105.			+6°40'	
7					
8			124°43'	-14°34	4.74
9				+ 9°	
8					
10				-1°24	
8					
11				+12°40'	
8					
12			65°38		
8					
14					
8 / 15				+35°16	
8 / 15				+28°25	

-32'

109
18
127

199.7
173
26.7





∠ x y = 52°

200
91.5
108.5

461

5.61
.14
5.47

HI
No 496

HI
1

37

Water Meas. for Hyrum City, Aug. 7 /08

5.47
.07
5.40

.2330
.0690

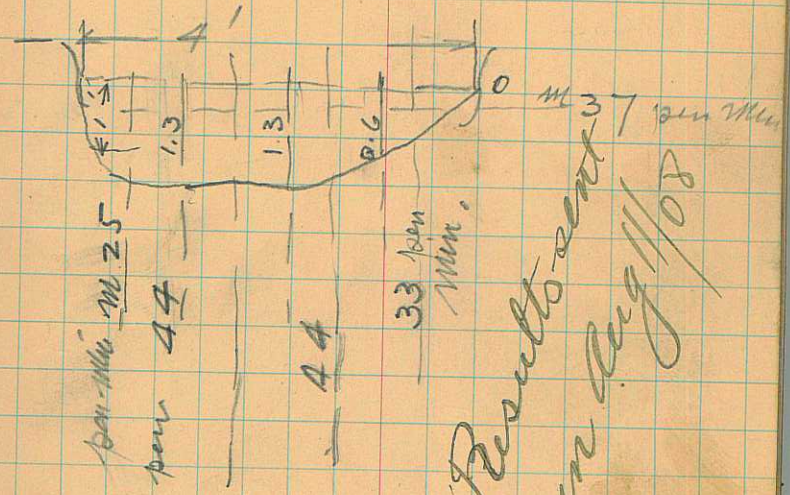
5.95
5.47
.48
6.30
5.40
.90

5.70

on stake cut .1'
on grade

4.46 = 6" above grade

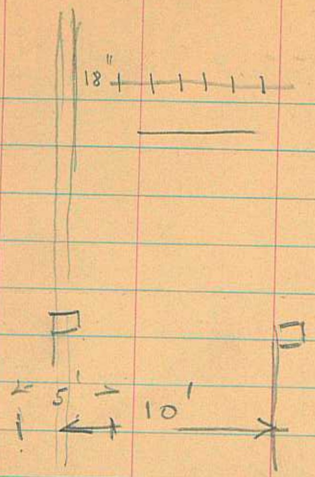
.3
5.7

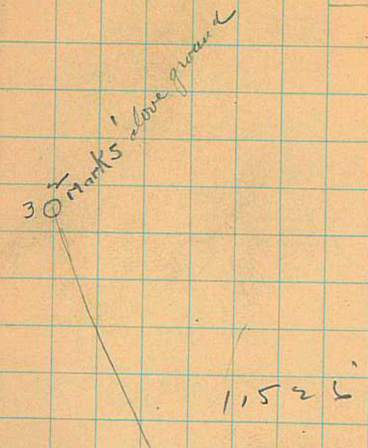


Results sent in Aug 11/08

Q = 5.55 sec.
mean v = 1.50
area cross section 3.7
sq feet

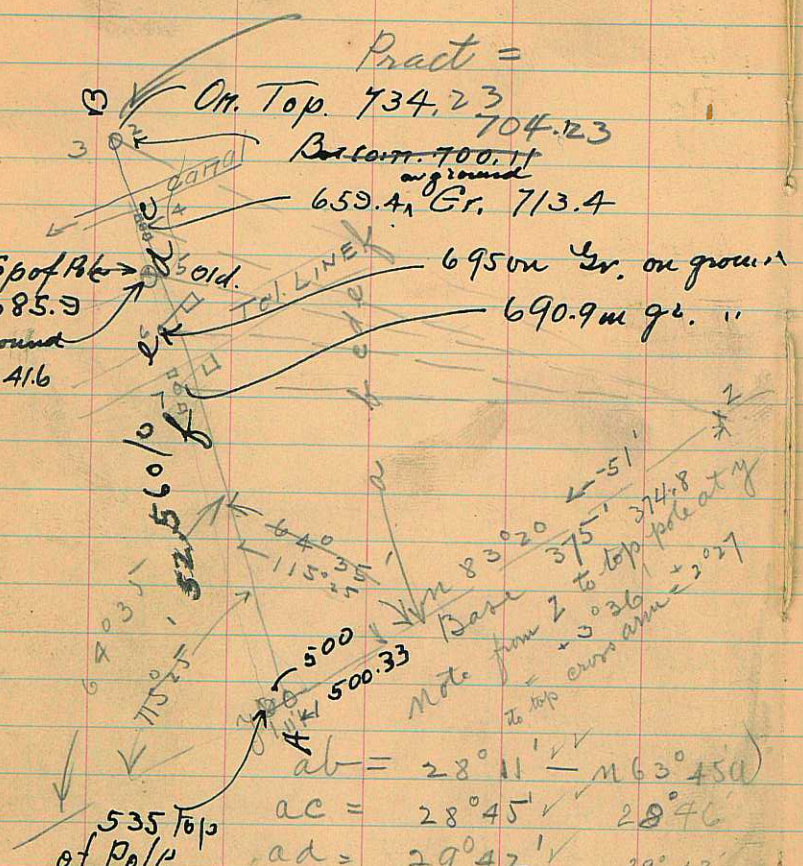
500
4.67
.33





Sta No	Course	L	R	HI	L^s + or −	
1		FS to pin on top pole		48		
2					28°01	top pt 5 above ground at upper pole
3					30°51	to top of pole
4		4'			24°51	5' above ground
5		10'			29°	to pin top pole HI 48. which must be moved; Vert L to top of pole
5					22°43	bottom or on ground by pole " "
6		17'			22 55	to pt 5' above ground
7		23'			22°51	

Note No 1 which is 11' NE of pole is 0.33 higher than ground at pole



A.B = 383.2
AC = 341
Ad = 326.2
Ae 309
Af - 301.2

630.7 [631.5]

627.0

30 1208
500 33
621.1 3

3010

additional grade
for Hyrum City 8/17/08

Sta	BS	FS	im	Ele	HI
	4.15			495.95	500.10
			4.91		
			5.21		
			5.01		
			4.98		

Grade at NE cor
inter. 1st West & main

	4.29			497.62	501.91
			4.66	497.25	
			4.70		

final decision

	4.21			497.62	501.83
			4.43	497.4	
			4.47		
			4.67		

Reset at NW cor
intersect. Center + M
5.16
5.26
3.16

495.95
4.15
500.10
4.91
495.19
5.65
.16

5.00
.2
4.96
.24
4.72

495.50
4.45
.35
4.91
.27
1.18

4.98
.2
5.18
4.98
.2
5.18
5.21

on curb NE cor inter. Center + Main
on " NW cor " " "
at a pt 10' in from curb NW cor
on grade
on decided grade 10' in NW corn

on Nail in pole
on grade inside
on 5 inside grade

497.62
4.29
501.91
5.24
.24
5.00
5.24
.2
5.04
.2
4.84

~~501.91~~
~~5.04~~
~~496.87~~

NE cor
in curb
501.91
4.84
497.07

on inside Grade NE cor 497.62 4.21 NE cor 497.25
2' N " " " 501.83 NW 4.27 497.56 497.05
on curb 501.91 497.05 4.86
4.22 on mark 5'4" below

on grade 10' feet in from
on curb
83.6' across st on W. side Center end of Groz

5.13

501.91
513
496.78

5.24
.25
4.99
2
4.79

501.91
479
497.12
2
497.32

497.25
497.00

501.91
497.25
4.66

5.24
-.25
4.99
2
4.79

501.91
479
497.12

Grading Block between
Center & 1st W.
stake 1 foot N of Cement.

	HI	RR	above
0	5.16		
1		5.18	
2		5.41	
3			
4		5.38	
		5.49	
5		5.16	
6		5.52	
7		5.45	

541
5.17
.24

497.30

5.49
5.16
.33

501.83
5
496.83
24
497.07
497.4

501.83
424
59

496.83

.24

.4

497.07
2
497.30

5.45
5.16
.29

496.83
4
497.23

497.4

467
422
45
12
70
45
5.20

497.2
2

501.83
497.4
4.43
4
4.37

4.61
4.37
.24

47
12
44
47
5.6

5.52
5.16
46
12

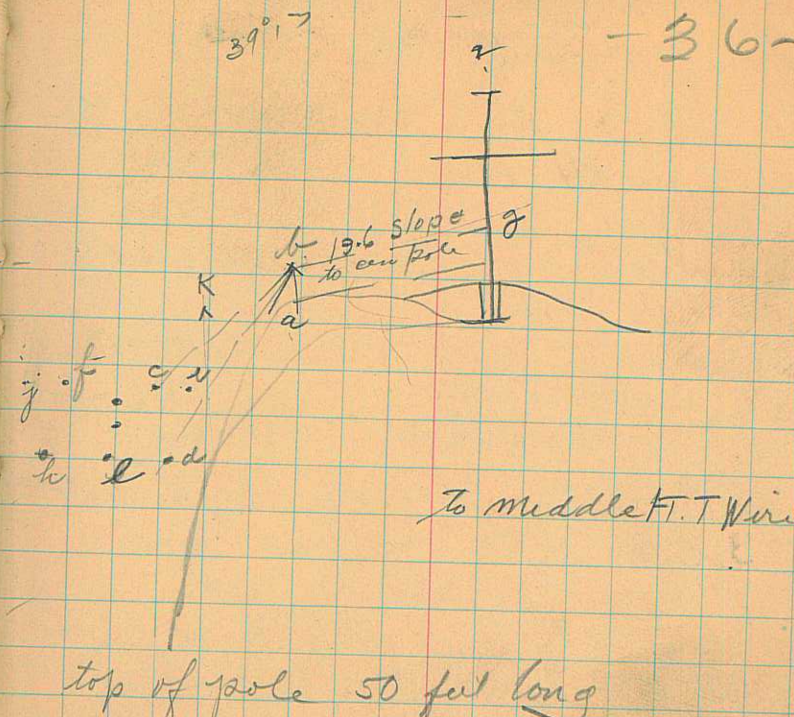
5.38
5.16
.22
12
44
2 2
64

~~1/4 above~~
~~1/4" above top hub~~
.3' above top Stake
on sill by or near wall. Drug Store
on top Stake
on fence
~~4 1/2" above~~
~~3 1/2 above~~

Recheck Sur for Telluride Power Co
8/17/08

Set at a pt on the edge of cliff HI 4.3

Sta	Dist	∠s + -
b	on slope 19.6	+16°23
g		-39°13
e		-40°25
d		-34°57
h		-32°46
j b K		-24°15



Sur for final grade
Dynum City 9/2/08

Sta	BS	FS	HI	Ele.	HI
				497.62	
4+01				497.62	501.63
		4.27		497.36	
1+50				494.80	

reset HI on grade NE cor intersection 1st W + main.

		5.11	502.47
0+40		3.20 on ground	
+86			
		4.50	
		4.50	
		5.66	
		4.48	

Strut Cross Exit

5.03			
		4.80	
		4.76	

497.62 / 20 / 501.63 / 4.27 / 497.36

497.36 / 5.11 / 502.47

5.11 / 3.66 / 1.45

NE cor intr 1st W + main

on finished cement work NE cor intr of prolm

on grade 150' N of SW cor Blk 19

58 / 70

L - to n - 58' Tan P.I. 1+50

2° curve D = 30' for 100'

12' for 40'

- 1° 10'

1/2

1° 22' Note final from SW cor 19 - 1°16' N on grade

RR on grade 5.11 7½" below

7½"

1' 5½"

5.03 / 20 / 4.83

1st W + M on Curb SW 19

on curb or cross WW cor P Sq

on ground center of St

Sta	BS	FS	in	ele	H±
0					
2+92.3				493	
2+80					
2 92.3					
3 04.3 = 18+25 on profile					

2 92.3 = 18+13
3 04.3 = 18+25
3 29.3 = 18+50
3 54.3 = 18+75
3 79.3 = 19
4 04.3 = 19+25
4+29.3 = 19+50
4+54.3 19+75
4 79.3 20
5+04.3 20+25
5 29.3 20+50
5+54.3 20+75
5+79.3 21+00
6 04.3 21+25
6+29.3 21+50

3793
2803
1993

3793
2923
870

1813
15207
2923

40-

NW cor inter 1st & main
on grade

PC

660
67.93
3.07
25

21.255
660
600.3
55.7

23.32
9.45
13.87
346.87

482.4
48 4.4
1.6

Check Levels from a pt 26 higher than Rechm City Res. Sept 14/08 ended at a pt E.

BS	FS	HI
5.710		
		3.43
	4.217	
8.345	3.753	
10.512	7.132	
8.630	5.992	
3.824	6.190	
9.850	5.250	
1.747	10.538	
5.705	1.385	
49.323	44.457	

1.385	3.430
5.500	8.813
6.885	12.273
	6.885
	5.588
	5.866
	.722

50

1.38
5
6.38

6.885
3.493
3.455

16.62
46
36
102
96
60

1.38

at a pt E of Rechm +26' higher on BM by post on S. side Main St.

49.323
44.857
4.866

500.00
4.86
495.14

Sta	BS	FS	in	Ele	HI	Cut
74+63	9.71			495.18	504.89	
			3.	501.89		
a	4.63			501.89	506.52	on ground
A		SW cor	8.1	498.42 / 488 on R floor		10.42
B		NW cor	9.19	497.33 / 488.27		9.06
C		NE cor	1.11	488.5 / 505.41 R f?		16.91
D			0.15	506.37 / 488.22		18.15
74+63			11.35			

495.18
9.71
504.89

4.89

9.1
4.89
4.21

actual cut 11.08

9.71
7.70
2.01

7.70
3.89
3.81

7.70
3.89
3.81
3
3.9

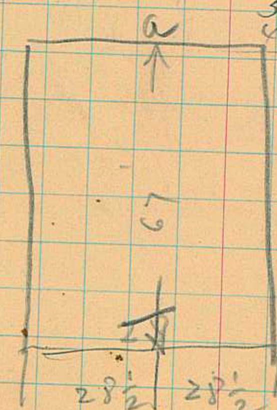
504.89
3.89
501.00

7
3
4

S 504.89
7
497.89

501.89

500
497.89
2.11



E

W

N

+/ Notes on Hyrum Grade amended

Sta	BS	FS	m	Ele	HI	R Read on mark	Cut	inches
18+13	1.90		on grade	493	496.14		1.24	
19+50			5.89	490.25		5.26	.630	7½"
19+75	change		6.58	489.56		5.70	.89	10 5/8"
20+00			7.34	488.8		6.15	1.19	1'-2¼"
20+25			8.19	487.95		7.32	.87	10 3/8"
20+50			9.06	487.08		8.15	.91	11"
20+75			10.04	486.10		8.23	1.85	1'-9¾
21+00			11.06	485.08		9.56	1.50	1'-6"
21+25			12.14	484.00		10.92	1.27	1'-2 5/8
21+50			13.44	482.70		12.46	.98	11¾"
~~21+60~~				~~481.1~~				
				481.0			33 on dia	

660 − 6043 = 55.7 − 33 = 22.7

4 660 − 6293 = 30.7

660 − 33 = 627 − 504.3 = 22.7

Ele on mark 494.24

all the Ele same between 18+13 and 19+50

Note. ~~meas 22.7' West from Sta 21+25~~ on the pav. line meas 24.7 ft west from ~~and~~ 21+25 and Turn a angle of 45° R

Side 12 & 16'

Hop = 20'

~~or say turn R° 45 from 21+50~~

not have end of pav 1.7 ft or 1'-8½" lower.

{ leaving original grade have end cement .6 lower

Sur at Spur
for Grennville
Sept 22/08

Sta	BS	FS	in	Ele	HI
	1.80				
			3.1		
			2.4		
	4.64				
	5.04				
	4 88				
0	5.82		6.22 in grade		
0+50	5.996				
	.224				
1+00	5.772				
	.175				
1+39	5.597				
2	5.324				
	.282				
2+63	5.042				

-48-

5.772
.448
5.324
.00448
6

.00448
39
4032
1344
.17472

772

6.22
5.04
1.18

5.82

at 1st E of track

6.22
.224
5.996

on tie
on grade S end
on top post S end New Grade
on tie

1.180|263
1052 .448
1280
1052
2280
2104

B L

Grade = .00448 /o
up to S.

.00448
63
1344
2688
.28224

Sta	BS	FS	un	Ele	HI	RR on mark	cut	inches
21			11.88	484.26	496.14	9.56	2.32	2-3½"
21+25			12.94	483.2		10.92	2.02	2-¼"

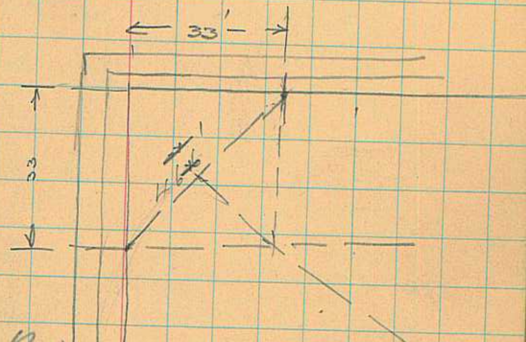
-50 496.14
483.1
13.04

496.14
484.26
11.88

496.14
483.2
12.94
10.92
2.02

11.88
9.56
2.32

From 483.2 at Sta 21+25
to Sta 0+60 going N
from S W cor Blk 18
(Ele. 0+60 = 477.72) Stop 21+25
Grade =



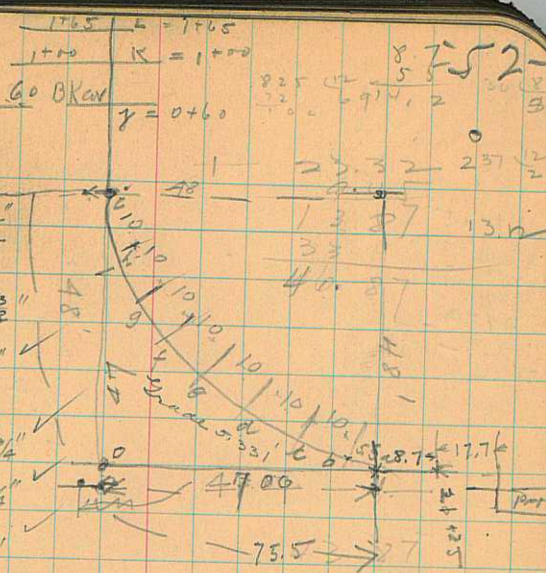
Raise 0+60 N of cor
.2 feet
First telephone pole
SE of N line B18

462.671

Sta	B S	~~F S~~ Ele on Grade	un	Ele	H I
21+25	2.59	483.00		485.22	487.81
~~21+25~~			5.3	482.51	
21+25 17.7		~~483.00~~	3.84	483.97	
21+75.2					
21+39.2 =	B	482.23 .533	3.22	484.59	
21+51.2 =	C	481.697 .533	3.46	484.35	
=	C	481.164	6.5	481.35	
21+61.2 =	D	481.164 .533	4.75	483.06	
21+71.2 =	E	480.631 .533	6.03	481.78	
21+81.2 =	F	480.098 .533	6.28	481.53	
=	F		7.3	480.51	
21+91.2	G	479.565 .533	7.39	480.42	
22+01.2	H	479.032 .533	7.34	480.47	
22+11.2 =	I	478.499 .693	9.10	478.71	
=	I		9.72	478.09	
	J	477.81	9.89	477.92	
	K	476.520 1.92	10.81	477.00	
			10.23	477.58 OK	
1+65		474.60	12.69	475.12	
1+65			13.2	474.61	
T.P. K }		10.81		477.00	
K }	0.7			~~HI~~	477.7
		8.40		469.3	
	0.7				470.00
		7.30		462.7	

see over

12.69 9.6 78.7 17.3



	Cut
on top stake	2.22 2'-2½"
bottom exca	2-3
top stake	2.20 2'-4⅜"
" "	2.66 2'-8"
bottom Trench	
top stake	1.9 1'-10¾"
" "	1.15 1'-1¾"
" "	1.43 1'-5"

on ground where Si Walk goes [illegible]
on Stake .86 10½"
" " 1.04 1'-5¼"
" " .21 2½ below
on ground 47 feet ~~feet~~ NW cor
on Stake 1½" below 60 feet from SW cor B.18
top Stake 5½"
On cement West center entrance to church
on top stake 6¼" N property line church lot
on ground

on Mail-bel P. NW cor 1318 (OK)

(check)

see over

Sta	BS	FS	HI	Ele	HI
21+25	4.01			485.22	489.23
21+07 3			8.25	483.98	
21+00			7.93	484.30	
20+75			6.77	485.46	
20+50			5.75	486.48	
20+25			4.79	487.44	
20+00			3.79	488.44	
19+75			2.83	489.40	

	grade Ele on	Ele on Stake	Cut in.	tenths
21+07 3	483.900 .883			
21+25	483.020 .71	485.22	2'-2 3/8"	2.21
=B	482.31 .499	484.59	2'-3 3/8"	2.28
=C	481.811 .499	484.35	2'-6 1/2"	2.54
=D	481.312 .499	483.06	1'-8 1/2"	1.70
=E	480.813 .499	481.78	11 5/8"	.97
=F	480.314 .490	481.53	1'-2 5/8"	1.22
=G	479.815 .499	480.42	7 1/4"	.61
=H	479.316 .499	480.47	1'-1 3/4"	1.15
=I	478.817	478.71	1 1/4"	
J	478.168	477.92	3"	
K	476.52	477	5 1/2"	
L	474.6	475.12	6 1/4"	

on top stake
on end post 9/25/68
on post
" "
" "
" "

4.99 o/o. down

485.22

above top
above top
below
below

No 1   Sept 28/08

Sur for James Quayle

h = 41°58

time 10:55

L^s ∠ to pole 25°45'

Mag Dec of Sun S 30° 00 E

No-

h 42°31

time 11 am

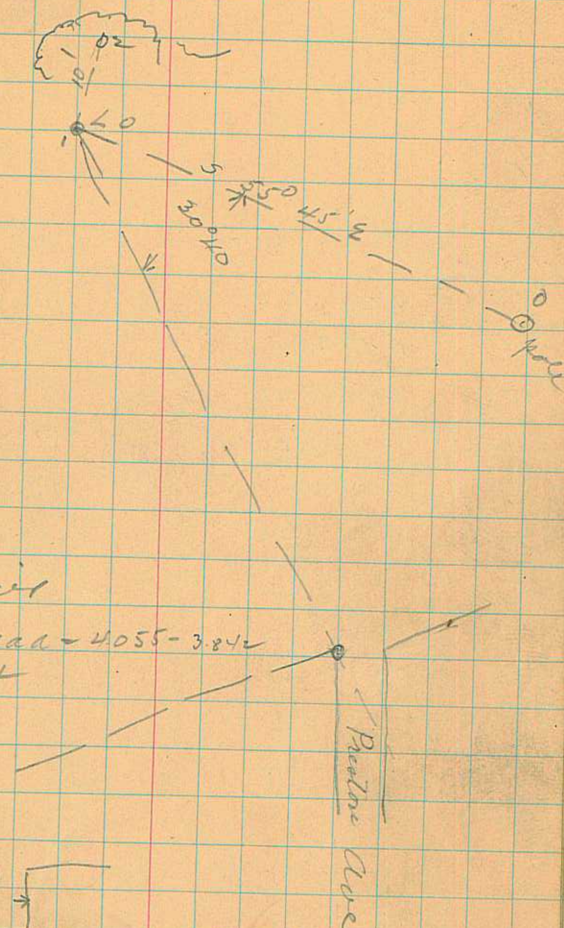
L^s ∠ to pole 27°38

Mag Dec Sun S 28° 10' E

Levels.

Sta	BS	FS	
0	2.2		
			3.842 on H_2O 1'
			4.055
		7.00	

N ↑   √ 6



NE of crest of weir

on crest head = 4055 - 3.842

end of ditch at

actual discharge

= 0.2468 sec feet

Sur for James Quayle

58 -

Set on NE FS to pole 0

	feet Dist	Course	∠ L	R	H I	∠ + or —
				30°40.		
	10		110°			
	0			98°16'	4.92	
0 / 4	54.3					
0 / 3	89	S42°30'W				
0 / 5	200'	S62°05'E	6°32'		4.82	-1°18'
6	200'	S58°30'E		30°43	3.76	-17'
7	157'	N88°50'E	32°37		5.24	-1°14'
7 / 8	134	S78°50'E		12°14'.		-10'
7 / 9	150 slope	S62°30'E		28°46'		-6°5'
7 / 10	200'-6°12' 143.5 hor	S60°30'W		151°33'		
10 / 9	x	N76°35'E	163°33			
10 / 11	263.5	S72°28'W		14°16'		
10		N4°30'E		124°38		
10 / 3	400' hor	N41°55'W		77°47'		
10	69	S30°05'W	57°			

to NE cor. at entrance Preston Ave to Case St

to average spring source

~~To~~

to pt. 1' NE of ~~corner~~

from pole line

to opp. dist a 200 + 143.5

along fence

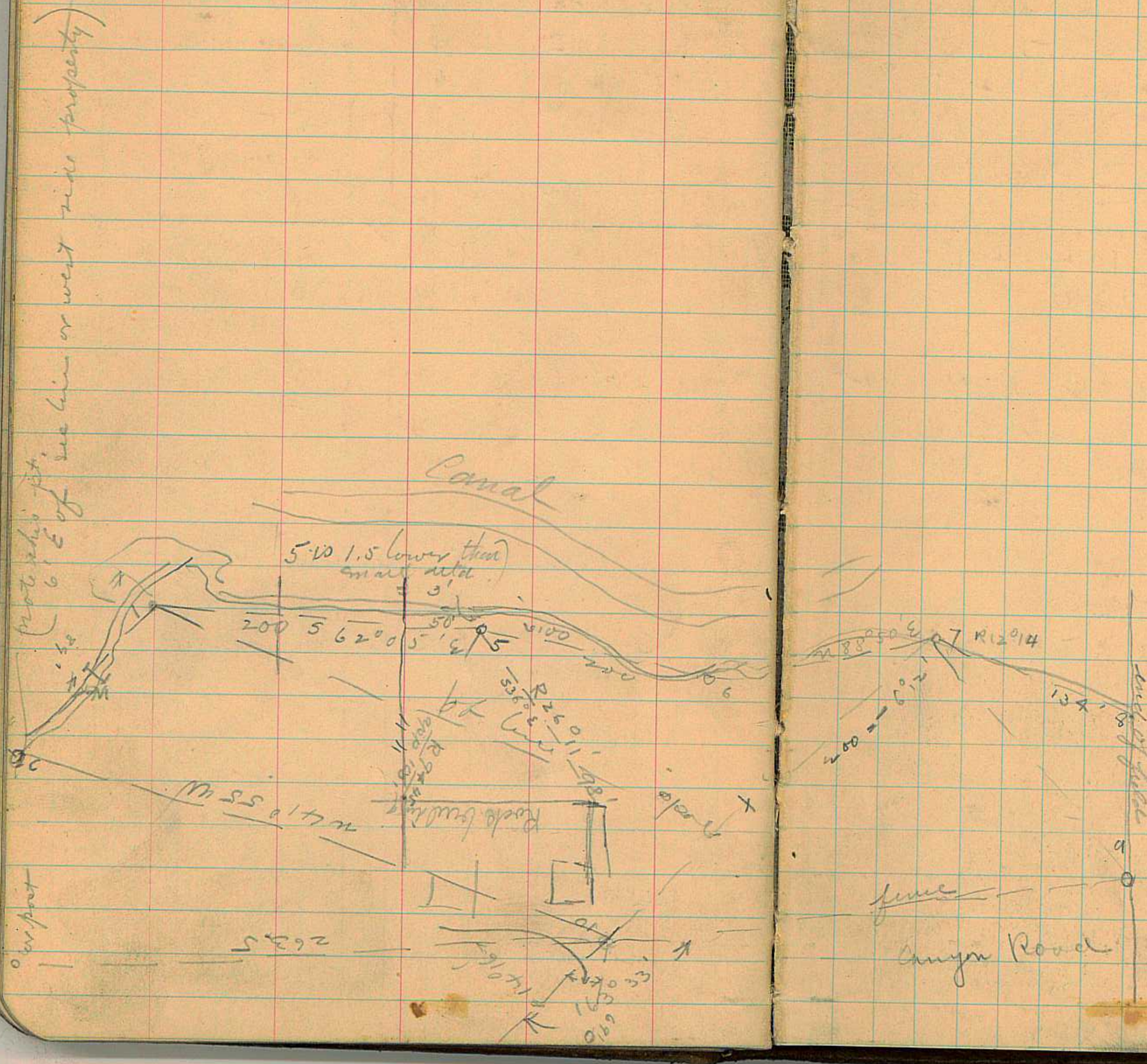
" "

along fence 95' fut building

(BS to 7) to NE or Johnson field

↑n

650


(not this pt. 6' E of sec line or west side property)
Canal
5.50 1.5 lower than small ditch
3'
200
R5
7
R12°14
134'
Rock building
fence
Canyon Road
corner post

Survey for I Jorgensen

Ob. on SW cor sec 1.
h = 28°55
tm 10.10
∠ R to L 123°51
Mag. Bear of sun S34°50 E

h = 29°23
tm 10.15
∠ R to LS = 122°40
Bear of line S89°10 W

Set on SW cor Sec 1 which is also N E cor sec 11

Dist	Course	∠	R
20.09	S89°10'W	89°24	
"	S15'E		
120.2	S15'E	71°50	
120.7	" "		
11.02	" "	71°50	
5.57	S71°20W		
5.68	" "		
5.57		86°15	
5.47	N22°05W	12°06'	
2.485	N34°10W	62°41	
16.27	S83°15W	90°55	
1.90	N6°5W		

in T 12 N R 1 E Oct 26, 1908

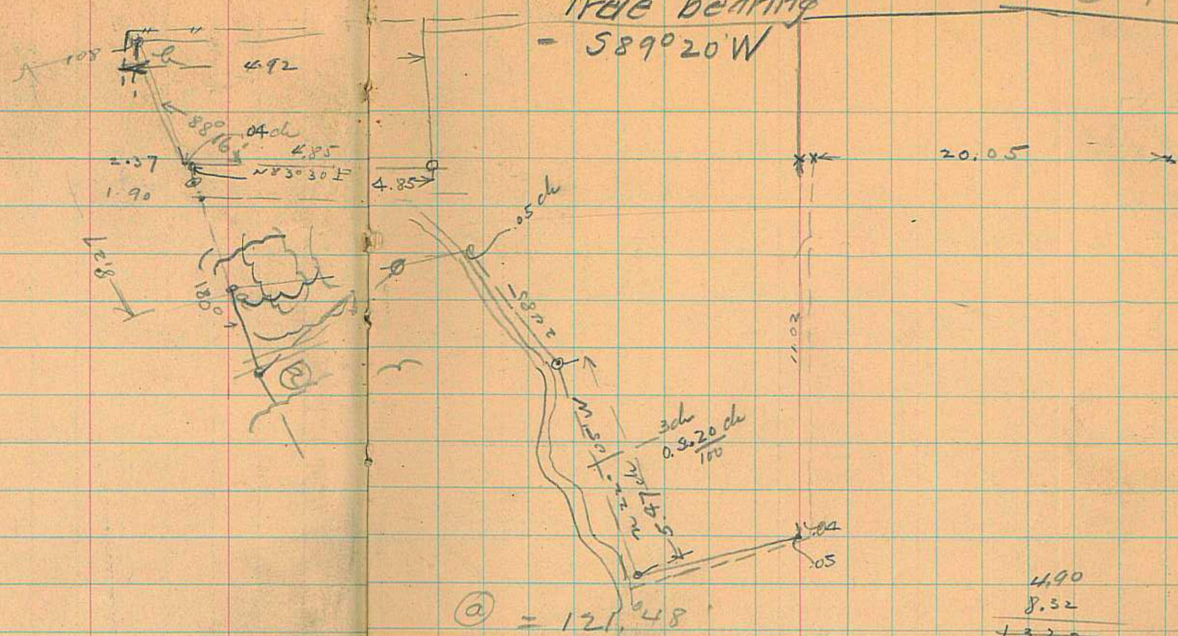
Lat 41°47' North
Long 111°47'15" E
Eq of time 7.452 hr.
Decl = 12°28'58"

{to point in line with W bdy of N E¼ of N E¼ 11
{or to N¼ cor of N E¼ sec 11
to int. 4 links West of fence
to fence Bear SW erly

to int. 3' N of fence
to E edge of Logan & Hyde Park Canal
Beg to meander at int.

to pt just under brow of hill E and put Grave
to in line with S side field Str.

3.20
True bearing
= S89°20'W



4.90
8.32
~~13.22~~
4.90

~~8.32~~
~~50~~
~~7.82~~
~~8.32~~
~~16.14~~

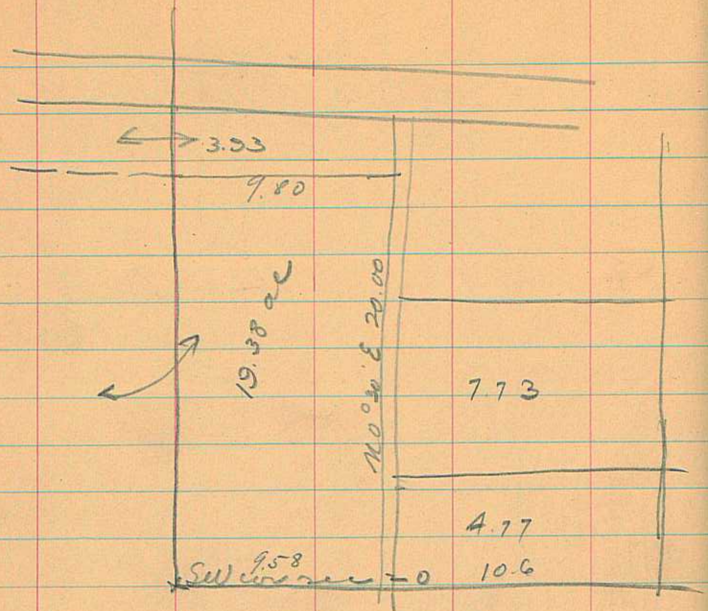
8.07
4.9
7263
3228
3.9443

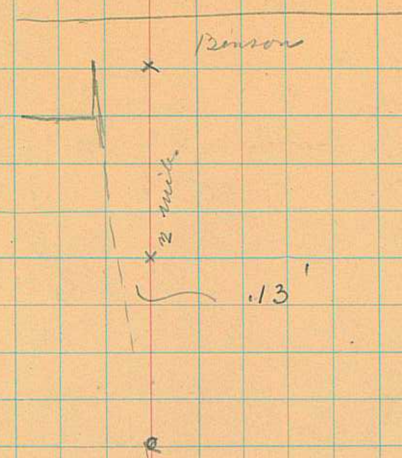
8.32
2.37
5.95
50
5.45
5.95
2)11.40
5.70
4.9
5130
2280
2.7930

Dist	Course	S L	S R
2.37			
8.27			95°11'
25.76	N89°15'E		
		Set on a	
1.83	S6°5'E	121°48'	
	N52°15'E		

9471
8816
655
66 -
.12
4.8
96
48
.576

N side fuels Road
{To pt. .05 ch S of fence (on sec line)
{also 8 links E of fence N + S
to beg
BS to B


3.33
9.80
19.38 ac
N 0°30' E 20.00
7.73
4.77
9.58
SW corner
0
10.6


Benson
½ mile
.13'

Survey for Alma Larsen of Millville Oct. 27/08

No	Dist	Course	∠	R
1				
	9.04 ch	S00°15'E	90°15'	
2	9.68	S89°15'E	90°13'	
3	19.57			
4 3 5	30.37		89°28'	
6	15.68	N88°50W	91°46'	
	2.80	S1°20'E		
7 6	3.65			
8 6	23.51			
10 10	5.57			
1				

All dist measured to instrument points and not actual line

sec 20 Tp 11 N - 1 E.

Beg to meas S at a pt .02 E of Post SW cor

parallel .02 ch N of fence E + W

to N division fence of tract on E side Sly

this pt is .07 W + .04 ch S of cor

this pt is .02 ch E + .03 ch S of NW cor

to pasture fence bear S Eerly

to N bank running Slough

9.68
5.57
15.25

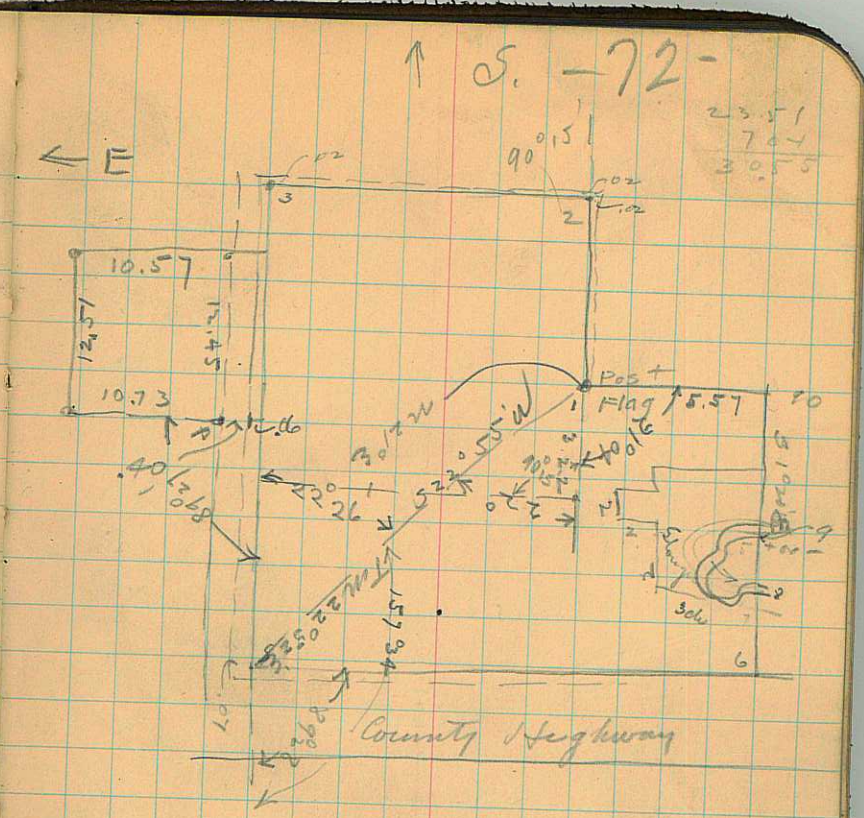
set on 1 BS to 2 ∠ 91°04 to 10

Oct 27/08

Ob on N°1 SW cor Sec 20

No1 h = 29°53
L^S L from N°2 149°36'
Mag dir sun S29°20'W
time 2:15 pm

h 29°36'
L^S L from N°2 148°52'
mag dir Sun S30°10'W
time 2:8 pm



968
9.72
1000972
972 | 10.28
2800
1944
8560
7776
784

10.28
9.72
2056
7196
9252
9.99216

10.28
7.06
3.22

9.8
3

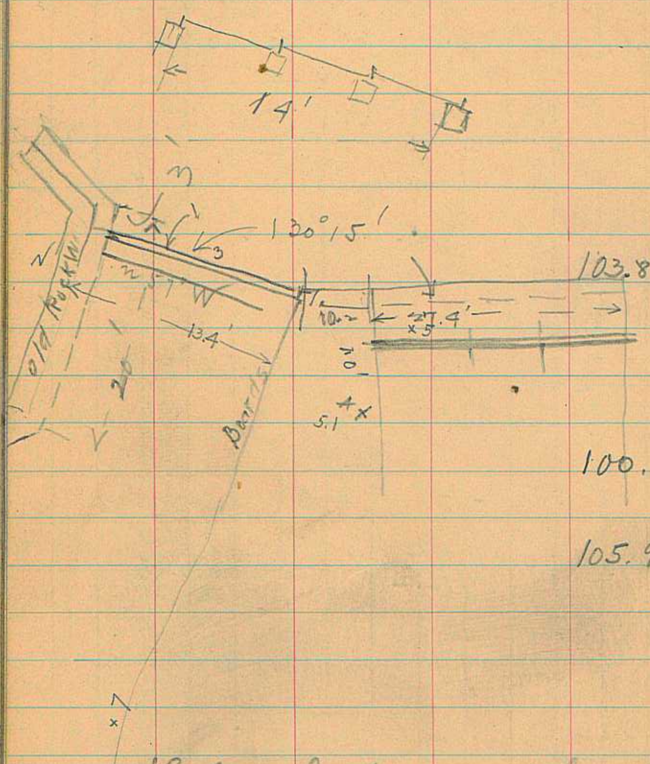
9.80
3.88
5.92
5.93
11.85

8.18
.8
12.98
11.85
1.13

Levels

HI	Ele	Sta	Un	BS	FS	
	94.08	1	9.80			floor level on sill old intake
103.88	100.00	2	3.88			on rock wall marked x
	95.12	3	8.76			on H2O
	98.78	4	5.1			on ground
	94.51	5	9.37			{on floor of main sluice a 2 x 4 is nailed on the this floor which is just below gate
		~~6~~	~~5.3~~			
	98.58	6	5.3			on bank E side River
	94.38	7	9.50			on H2O about 70' S of [illegible] (raised mast)
103.82				3.82		on rock wall mark x
	96.16		7.66			on mean H2O marked
	98.52		5.30			on top of one intake gate that was sawn
	98.07		5.75			on High H2O marked
100.78	~~96.73~~			0.78		on rock wall x
	96.73				4.05	on over floor up the River
105.93	~~9~~			5.93		on Rock marked x
	92.95				12.98	on H2O by fish wheel

680 feet from intake to fish wheel



Check levels

Un	BS	
	5.75	on rock
7.22		on intake gate
11.63		on floor intake
11.22		on " main sluice
7.76		on high H2O mark

Elev of New intake to be at
93.28
Ele Crest of dam should be
95.68

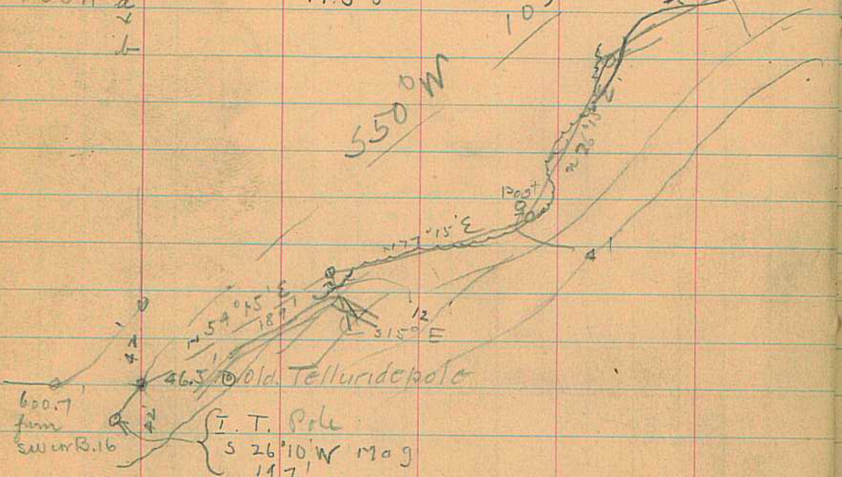
Sur for E.P. Bacon
11/10/08

31°59

Pt "A" Logan

Beg. at a pt 600.7 S89°E from SW cor B16

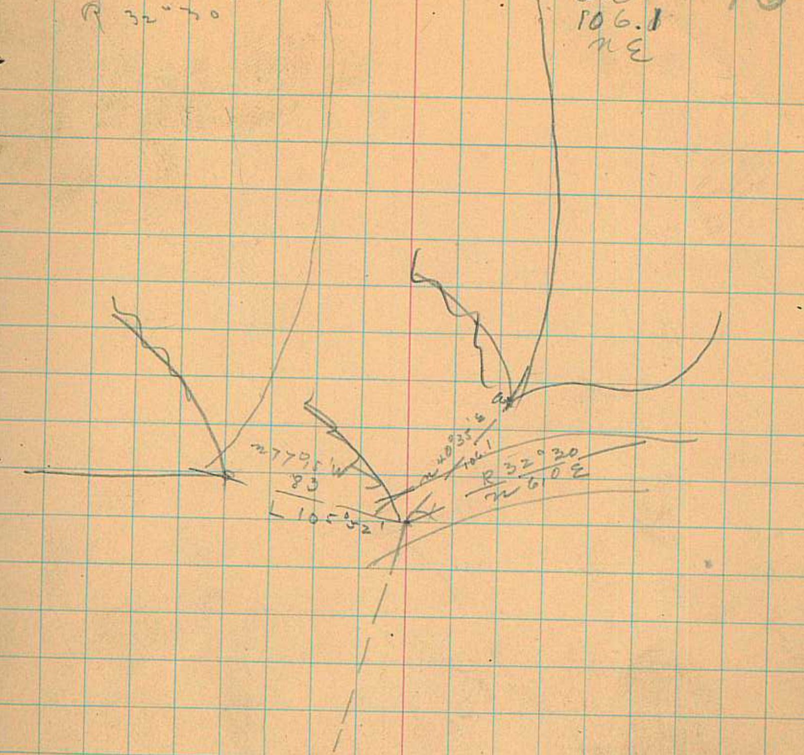
Dist feet	Course	L	R
189'	N54°15'E	36°59	
263	N77°15'E		23°11
280.2	N26°15'E	51°08'	
223	N57°30'E		31°08'
144	N28°45'E	28°43	
106.1 a		11.58	



200
137
63

R 32°40

83.0
16 W
106.1
NE



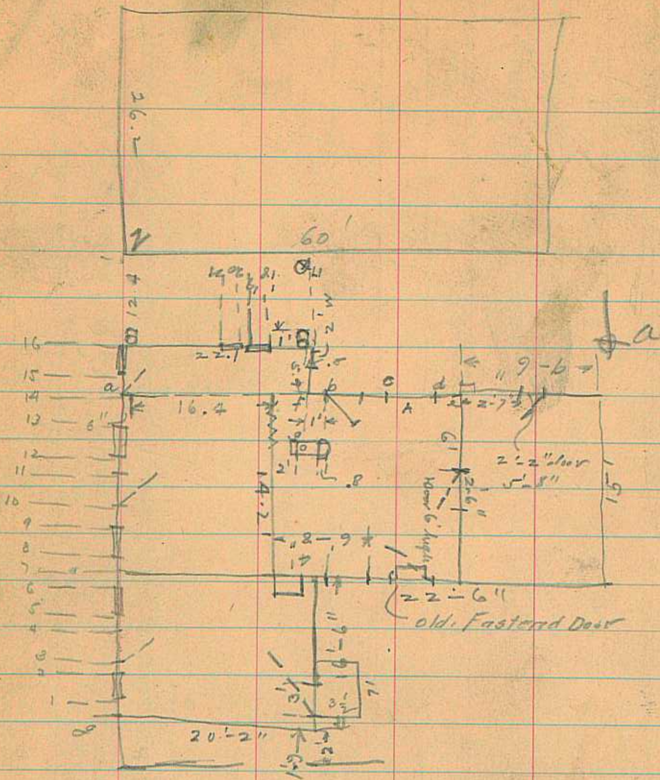
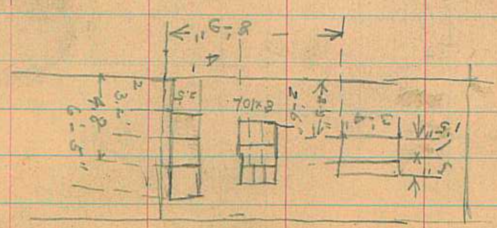


Photo was taken 22 1/2' S &
2' W of NW cor Old
Laundry Blk



a to b on edge door 22.12 door 2'-6" x 6'-6"

a to c 27 ft N side Window.

a to d 21.2 5 " " .

a to e 32 S end of Attic Room

ft g E side stove 5.8. stove 3 x 1.7 including Re

Attroom 7-6" from floor to Ceiling

g to 1. 1'-1"; g to 2. 5.-4"; g to 3 6'-8": g to 4 9'-8":

g to 5 - 11': g to 6 15'-2": g to 7. 16'-5": g to 8 = 18'-6";

g to 9 21'-4": g to 10 22'-7" g to 11 = 25'-7":

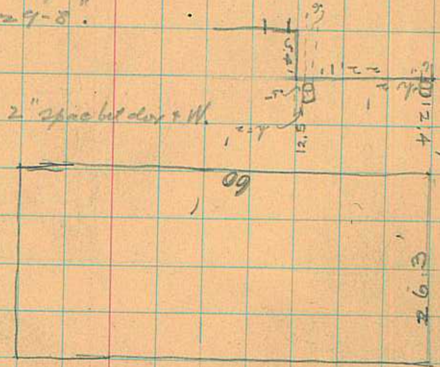
g to 12 = 27': g to 13 29'-8".

g to 14 = 31'-11".

g to 15 34'-6": c to e. 2" space bet door & W.

g to 16 37'-4": to

a at 3½" E of W sash.
1" to B. line.



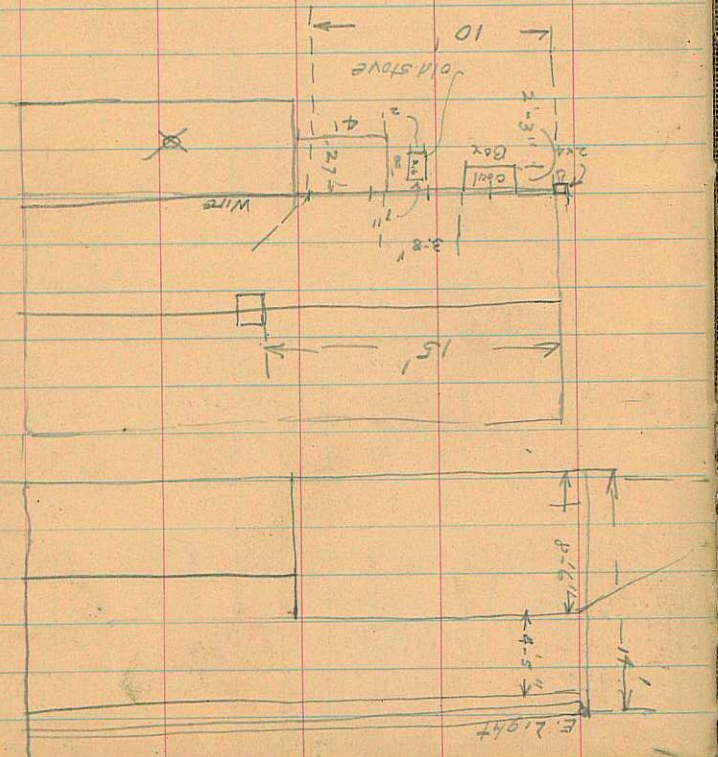
17 to 18 5'

17 to 18 7'-10" center 2x4 □

17 to 21.10'.

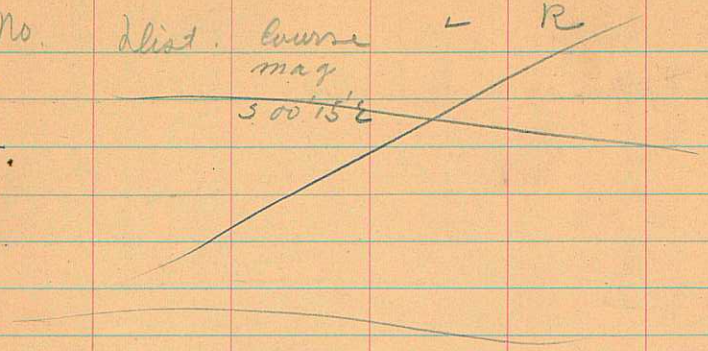
a' was taken 102' S & 10' W of
NW cor old Laundry Blk
a picture was taken 9' S & 4' E
of SE cor Roberts Block

Coal Bot 2×3' inside height 2-7'



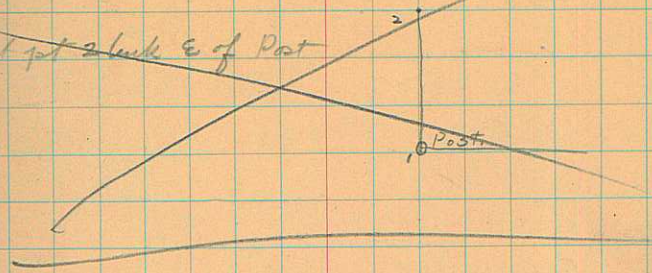
Beg at SW cor sec 20 Inds in T 11 N 1 E.

No.	Dist.	Course mag	L	R
1		S 00 15' E		
2				



Oct 27/08

Beg at pt 2 links E of Post



Oct 31 - 1934

az

① 9°41'20

② 9°37'

③ 9°41'00

④ 9°37

9°36

~~45~~ 192.20 ÷ 5

42 20 38.4

9°38 8

9°39'

~~Use 9°39' az to~~

Use 9°41 az to

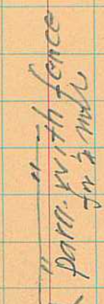
10 am δ = −1401

Co θ = 48°19'12"

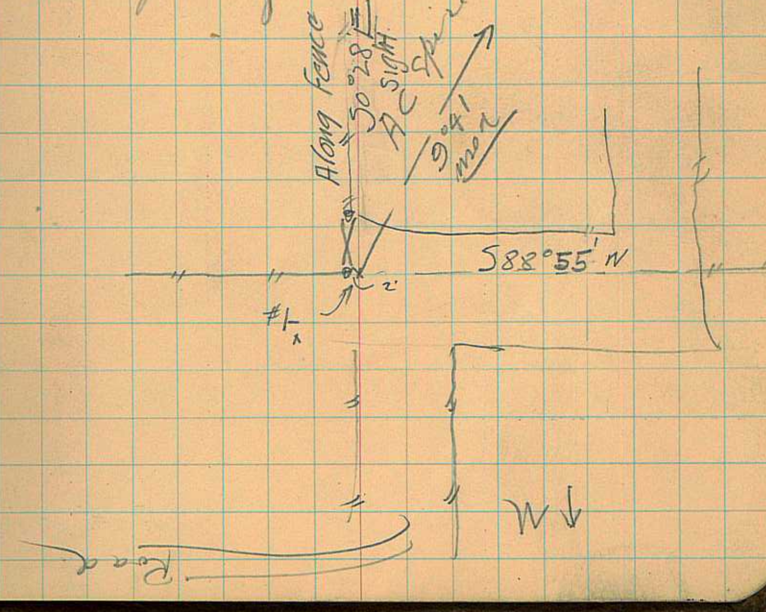
10:00 to 10:30

to main spire of AC.

rather late



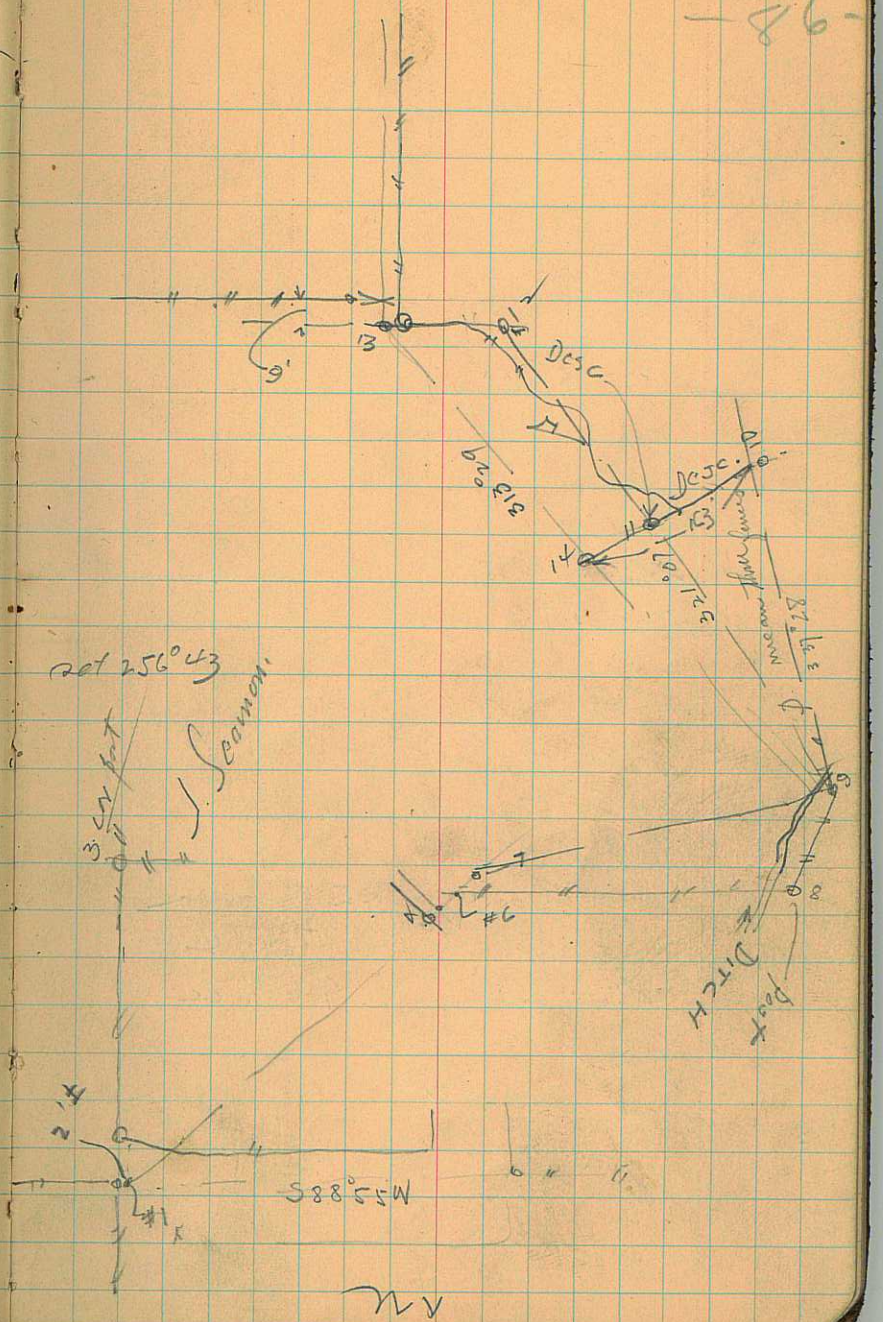
AC Spr. set up is E West of North post of Gate



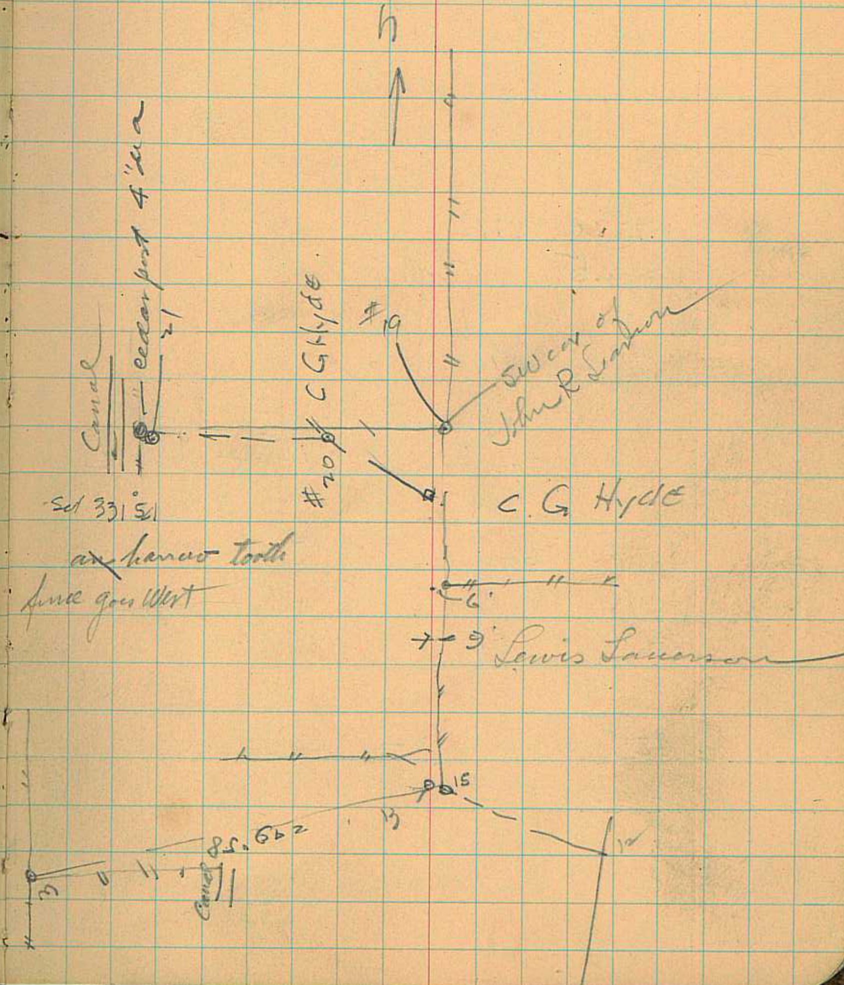
Oct 31. 1934

S. R. Seamons of Hyde Park

15	98°33'	1 ft to cor post	
14	98°33'	X	
13			
10	66°03'	163	
14			
14	313°29'	400.00	
13	313°29'	723.0	
12	321°07'		
11	321°07'		
10	337°30'	X	
18	208°30'	114.6	
9			
9	76°43'	X	
8	82°33'	838.0'	cor post
7			
7	53°55'	764.0	
6		761.5	intersect E&W fence (N. line property)
5	"	741	L Hk Canal
4	53°55'	726.	R bank L-H P Canal
3	359°26'		
	53°55'		
1			



21	~~252 58~~	478	
7	173°42		
20			
20	272°32'	215.00	2' N of fence
3	218°20'		
19	332°35'	71.0	
18			
18	331°54	600.00	R 5' to fence
17	331°54	570'	R 6' to fence partition
16	331°54	300	R 9' to fence
3	2 49°58		
13			



251° 5½ to cor post

20 353 42 30'

(1) 53°55' + 180° closes.

7^ =

7 1 53 45 56 1.00 to

500 R 4' to ditch

500 R 20' to F

400 R 29' to F

300 R 8' to F

200 R 7' to fence

24 195°30 31.5

153°45 on Tan

23^

23 150°10' 69x

600 R 16.00 to fence on Canal Bk

500 R 24' to fence

400 R 18 to F

300 R 15 to fence

" 200 R 12' to fence

150°10'

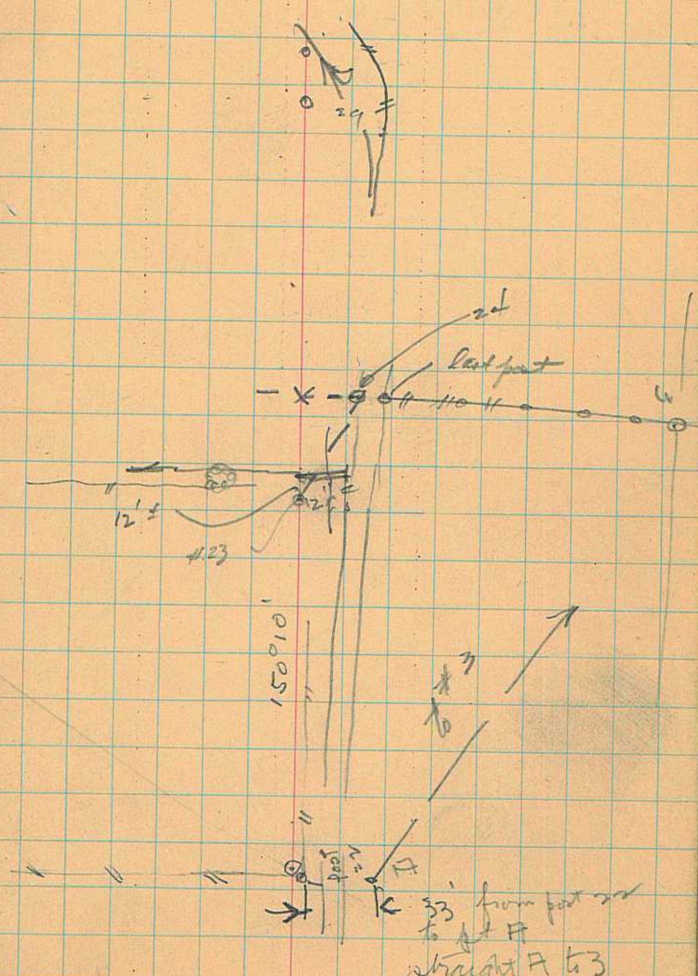
21^

Canal Walk 253° 12' to L Bk Canal

22 281°30 3'

21^

3.3 0 08
1 8



Nov 6 - 1934

Re-observation on
pt 1 of S.R. Seamons Sur
F S to A C Spire

9° 53'
~~9 56~~
9 53
9 55

9 54

9 53 45

9° 54 near

9 53 ° 45

S

15 51.7
3.37
15 55 07
1.95
15 53 12

9:30 15° 53'
10 am 15 54

F S to A C Spire

Co O. 48° 19 12

Add 13 minutes

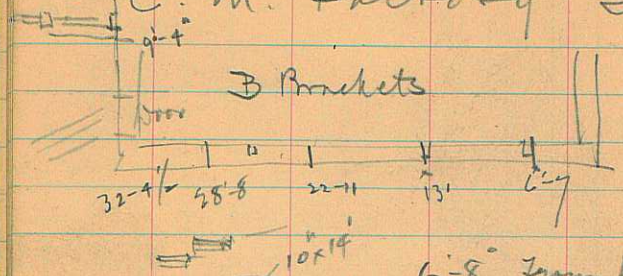
.75
4.5
375
300
3.375

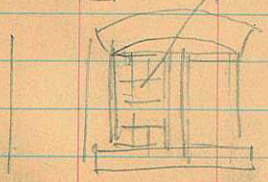
.75
15
375

15 51.7
375
15 55.45
17
15 53.75

Aug 26 - 1914

C. M. Factory Smoke St.





6'-8" From Mach Rm fl. to Main Floor

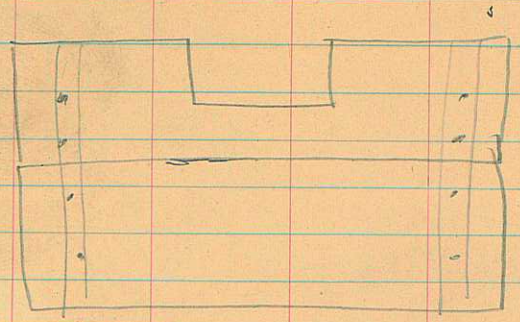
Width of Pan-Room ins. 28'-4½"

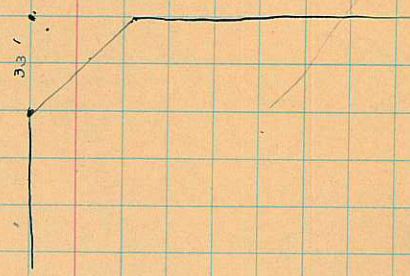
300

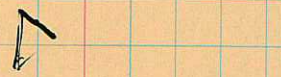
4 93

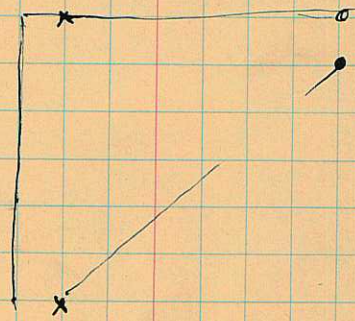
400 | 200
10 | .01.3
1000 | 5
900 | .06 5

150









5.03

511
453
.58

$\frac{R}{\cos \frac{I}{2}} - R = E$

$\cos \frac{I}{2}$

6.00
9
5.91
5.34
.57

$\frac{R_2}{\cos I} - R = E$

2,477127
2.726588
3.750533
0.301030
4.051563
T.999384
4.152179

3.750533
T.999851
3.750682

56320.0

56320.0

$\log 50 = 1.698970$
4.049503
3.648467

15+20.

$\log R = 4.049503$
$\log 2 \quad 0.301030$
4.350533
$\log \cos T.999384$
4.351149

1.698970
3.750533
3.948437

99
2
75
94
12
87
14
73

12
1.2
13.7

4.61
4.51
2
4.71
2
4.91

5.26 .25 5.01

466
2
4.46

526
3.46
1.80
3.46
2.86
3.50

2.46 3.46 3.26
386
.40

3.16
2.86
.30

361
58
303

~~T = 1½ tan~~

$T = \tan 1\frac{1}{2} R$

$T = \frac{\tan \phi R}{2}$

~~tan~~ $\phi R = \frac{T\,2}{\tan \phi}$

5.01
3.88
1.13

4.61
2
4.81 — One oval
4.22
.59 = 1"

4.61
4.26
.35

4.81
4.66
.15
12
30
15

4.66
4
4.26

4.61

4.61
.3
4.91

5.8

5. 4.8
2
4.6
3
4.3

461
3

4.61
43
.30

5.00

4.61
.2
4.81

4.81
2
5.01

49736
44480
4 256 (150
150 170
1060
1050
1000
1350

256 (150
150 .01706
1060
1050
1000
900
1000

1.706

log 300 = 2.477121
log tan 1°32' = 2.427618
4.049503

.01706

$\sin D = \frac{50}{R}$

58"

Sta	H.I. on grade	R.R.	dist below mark	dist above tops	
at corner 1	4.79	4.39	.4		
2	4.79	4.24	.55		
3	4.79	4.02	.77		
4	4.79	3.76	1.03		
5	4.79	3.98	.81		
6	4.79	4.01	.78		
7	4.79	4.79	—		
8	4.79	4.79	—		
9	4.79	4.08	.71		
10	4.79	4.79	—		
11	4.79	4.79	—		
12	4.79	4.01	.78		
13	4.79	4.79	dist below mark		
1 at corn	4.81	4.81	.0		
2	4.81	4.25	.56	✓	√4.28
3	4.81	3.82	.99	" " ✓	
4	4.81	3.89	.92	" ✓	
5	4.81	3.86	.95	11 3/8 ✓	
6	4.81	4.18	.63	7 1/2" ✓	
7	4.81	4.11	.7	8 3/8 ✓	
8	4.81	4.33	.48	4 3/4" ✓	
9	4.81	4.05	.76	9" ✓	
	4.81	4.01	.8	9 1/2" ✓	

3.68
3.48
3.68
4.51
3.68
.83

4.51
.42
4.09
4
3.69

3.68
2
3.88

12
2

30' ÷ 100 : x 40
12.00

4.81
4.05
.76

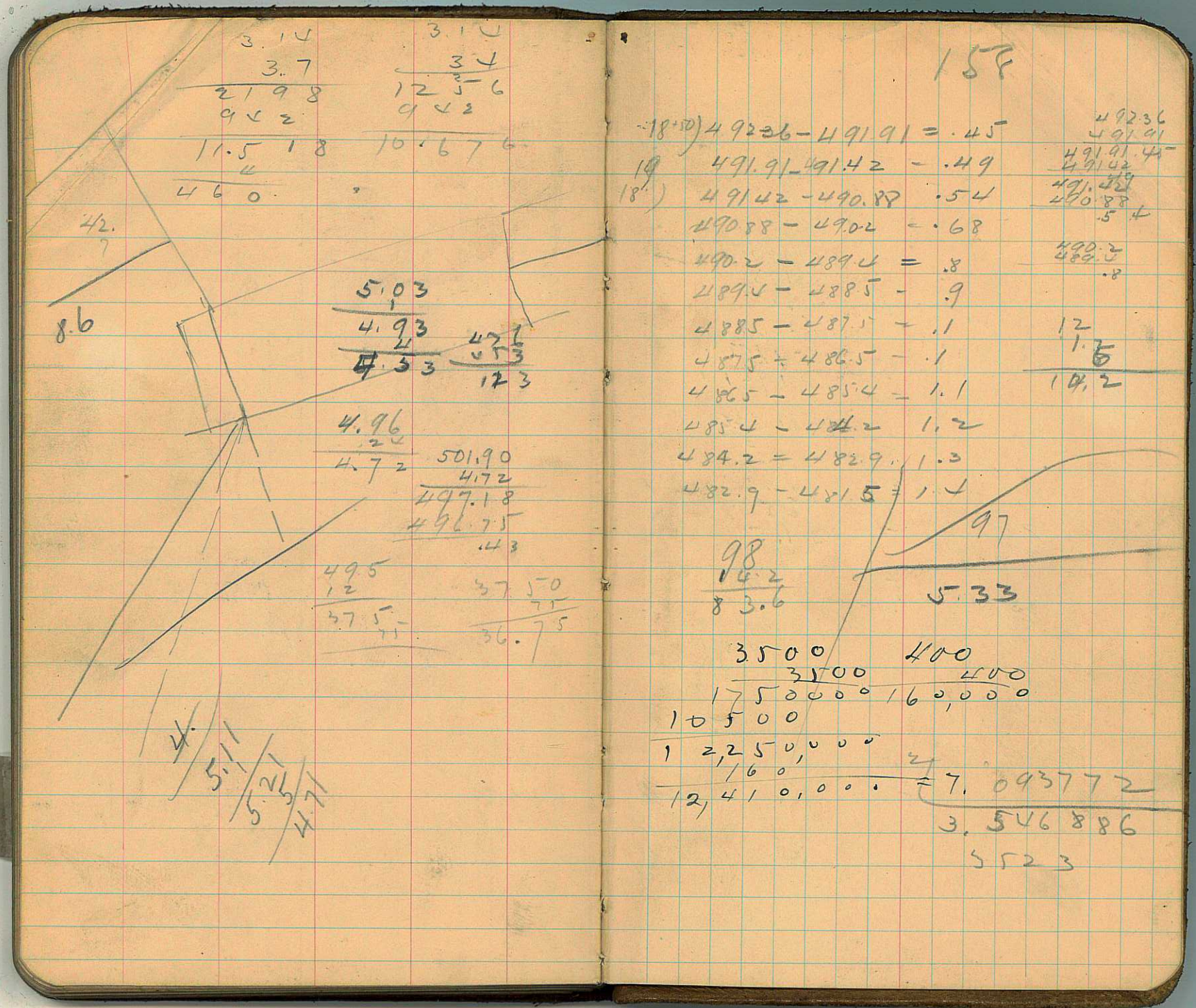
4.81
4.33
.48

4.81
4.25
.56

.92
.12
1.84
.92
11.04

4.81
3.82
.99

4.81
4.81
4.18
63
126
63



2.96 = 0.778151

3.91518 = 3.181272

3596879

78151

696879
694173
2706

718997
694173
24824

596879
577668
19211

824 17'

19211 | 536
3

6 495 36
12 18 1.25
315 31.5

12 315 99
1.33 115 14
.5 130 85
.16 7.5
99 77.5

14.00 12.45
9.5
2150

99
2150
77.50

Schaub

2)1517.7
758.85

786
758.85
27.15

760
99
759

786
27.15
758.85

138
2
2760