DIETZGEN

ENGINEERS'

FIELD BOOK

No. 404F

1934-3

54

54

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1.

For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be 30.6+(20—16)÷2 or 2 ft. added to 30.6 =32.6. For slopes of 1 on 1½ see inside of back cover.

Eugene Schaub
Logan Utah

Paris City - OK
Sept - 1933

1934-3.

23 8 4

18

(1)

Paris City

Barometric Obs.

Sept 9-1933

6015 R Crawford

6200 on door step of mistake

Set on pt exactly # 1

near Observation house

$\odot$ = 42° 13'

Co-$\odot$ = 47.47

8960

Lat Sun - 5° 23.7

108

5 12.9

1.4

5 14.3

$\odot$ + 5° 14' 20"

Long'

111 27

111.5 15

105 7.43

65

50

15

7.43

4.53 acres

1600

208° 24 to E pole on far hill

208 23

208 23 used

3

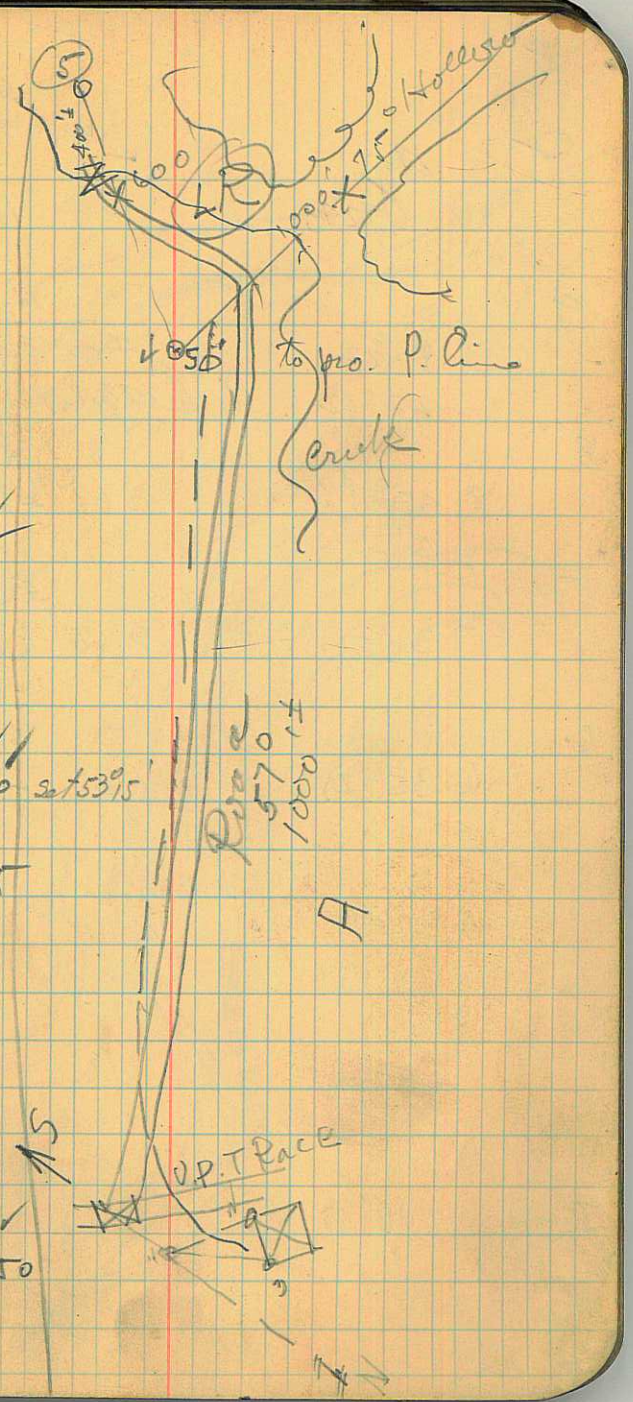
Stadia

Pt	az	L	C	U	Elev.	HI
5	37°09'		2.0	+0°40	11.15	6238.60
			9.25			6242.85
4	259°00'	4.1	{ small gate to house 3rd post below 0.10		50'±	6234.60
A	53°15'			+3°5'	6.00	11.38	6230.50
						6178.4 6178.5

342°55' ℄ N door U.P Sta 40'±
208°23' to for E pole on hill.

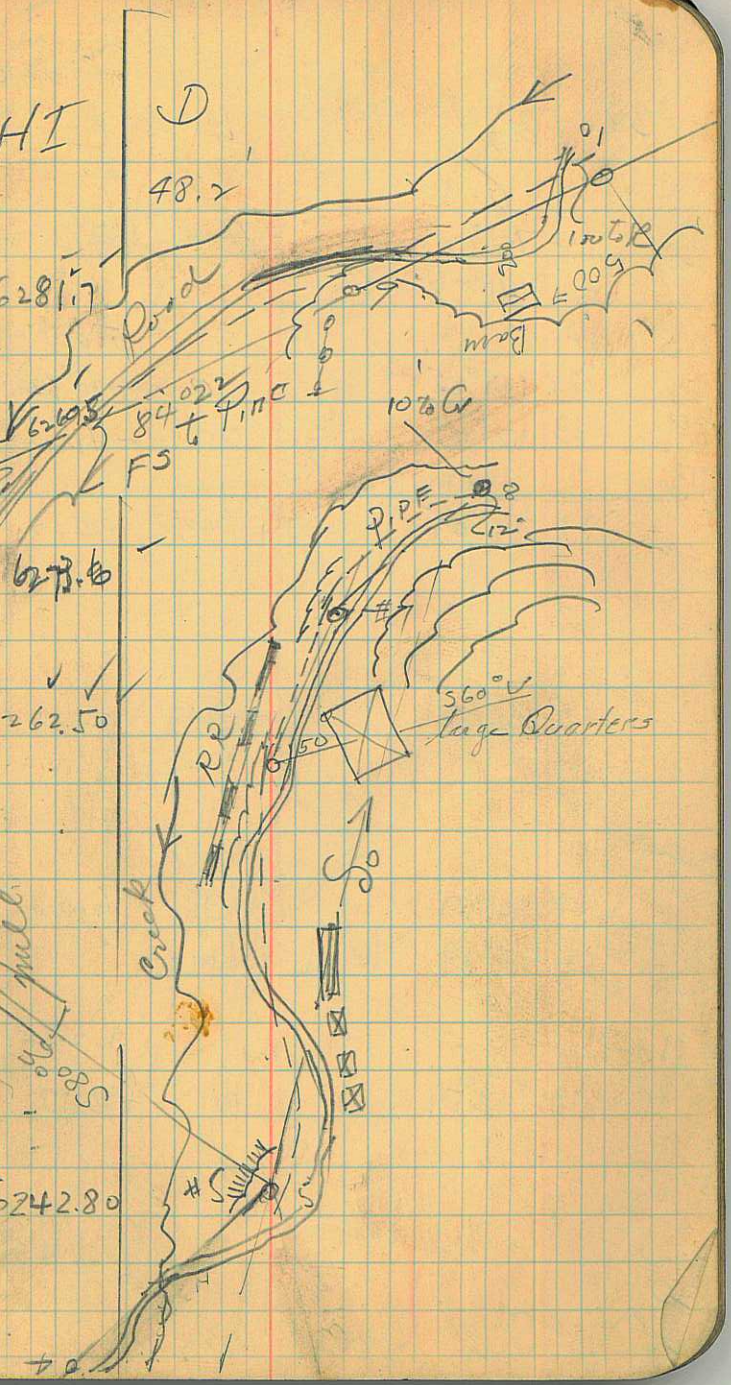
3	168°41	17.4'
2	12956	18.3'

1



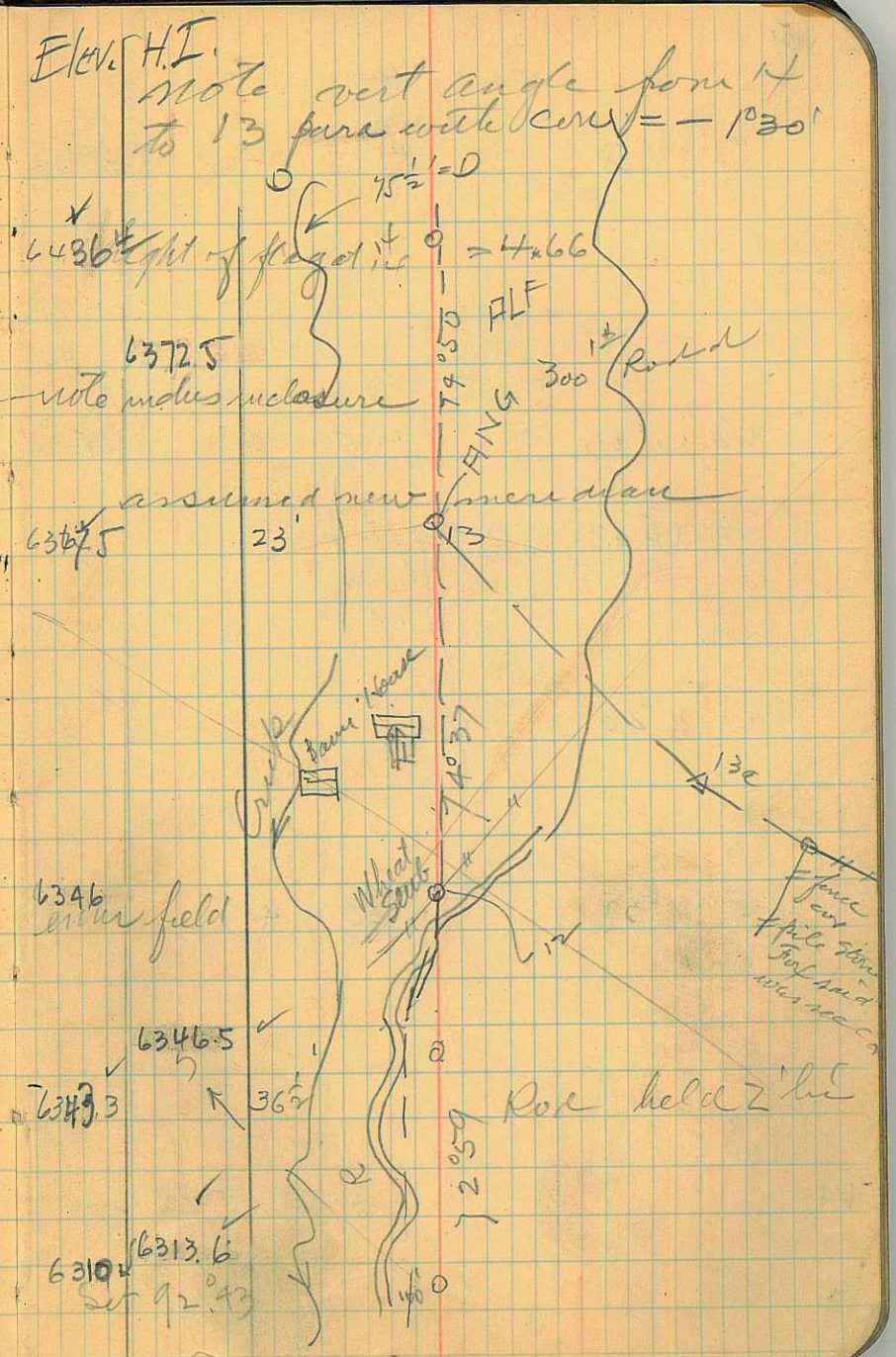
5

Pt	az	L	Stadia C	U	Elev	HI	D
10	09°43'	6	11.55	+2°03	6310.00		48.2
			4.7				
9	84°22'	4.00	+4°49'	5.49	6277.6	6281.7	
	22°02	to heel pole on ridge					
			3.75				
8	45°51'	3.00	−1°05	5.02	6276.8	6279.8	
			5.1				
7	30°51	9.00	+3°17	11.92	6268.5	6273.6	
			4.2				
6	350°23	6.	+2°42	11.2	6258.3	6262.50	
5						6242.80	



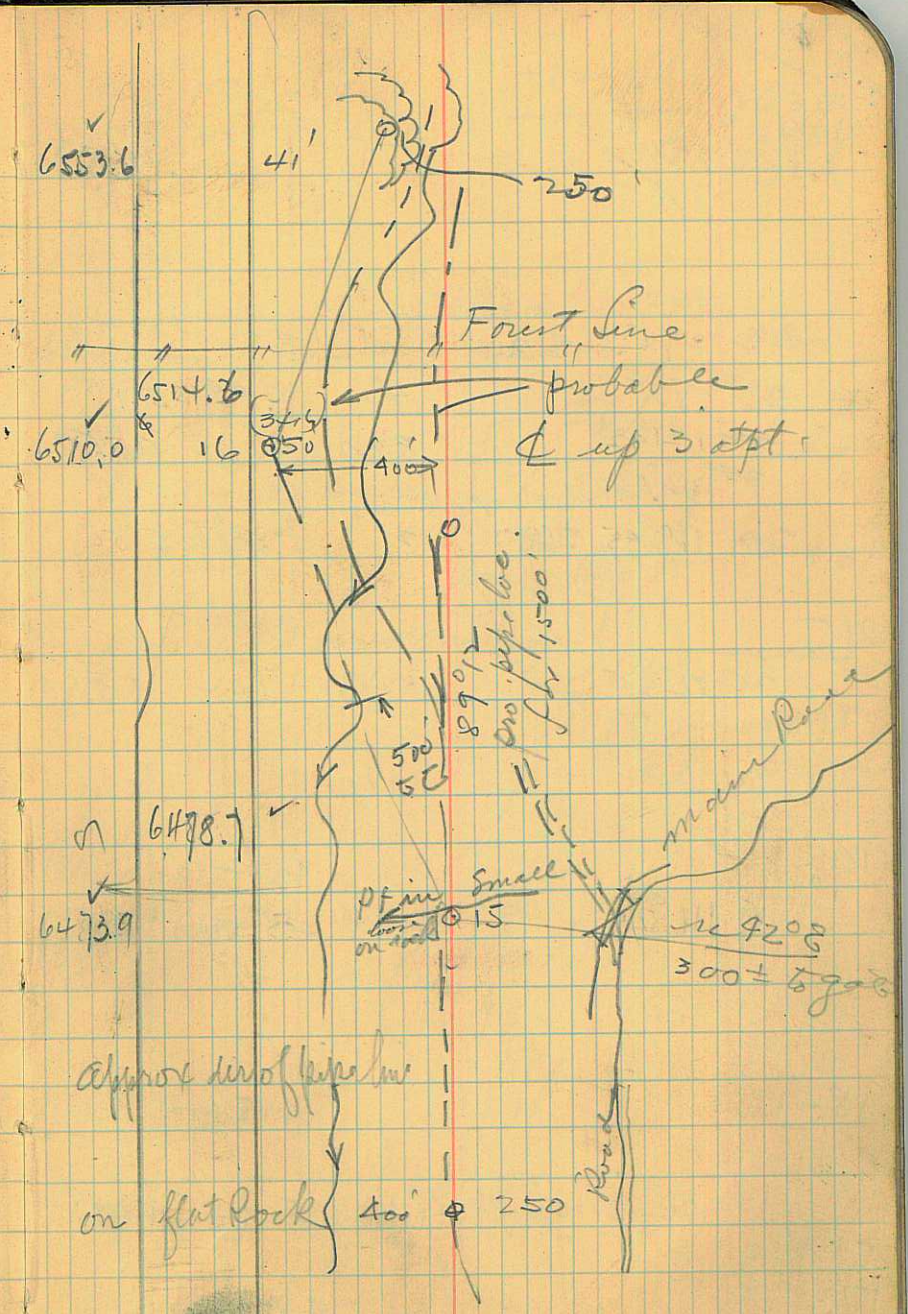
7

Pt	Az		Stadia L	C	∪	Elev. H.I.
						note vert angle from 14 to 13 para with curve = − 1°30'
14	72°50'		4.0	12.1	+2°41'	6486 ft height of fence at 14 = 4.66
13a	191°58					
13	+			5.00		6372.5
	cor	181°25'	0	+6°12'	15½''	note indus inclosure
	13	12°10'	2	−11°	11.85	
13a						assumed new meridian
	13	74°37	+0°43	2.0	11.2	6367.5
	13	74°37	+0°43	2	11.2	
12	74°37		+19'	6.00	11.3	6346 mean field
a	64°19	to ⊿ a fence				
11				3.25		6346.5
	11	72°59	2	+2°10'	11.65	6343.3
						6313.6
10				3.6		6310
	Sun	Sept 10 1933				Set 92.43



9

			L	C	U
17	83°58'		+1°15'	2.10	11.4
	59°52	Pine			
				4.6	
16	80°23		+0°50	0.	11.9 ±
b	66°49	Δpt pine			
a?	8°40	pine			
15				4.8	
15	91°39'		+1°20'	4.0	11.8
	90°				
a?	50°12'				
14				4.95	



11

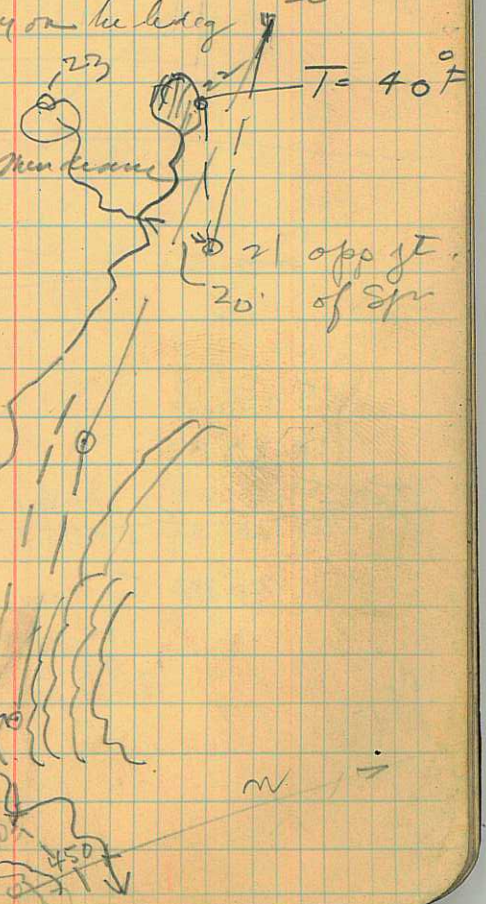
Pt			L	C		Elev
						HI 7.9 / 4 / 3.4
						860
BM	292°56	22'	0 Vert L	3.8		
23	70°		4.	+3°49'	5.18	
22	121°42'		8.00	+6°32	9.05	
~~21~~	121°46					
20	119°45'	268.7	2	+28°56	5.50	
21						
20	123°35'		2.0	+9°04	11.9	
19				4.2		
19	116°23'		5.44	+5°37'	7.00	
18				4.5		
18	106°02'	N74°N	+1°38'	5.0	11.2	
17				4.4		

+12 / 8.5 / 3.5

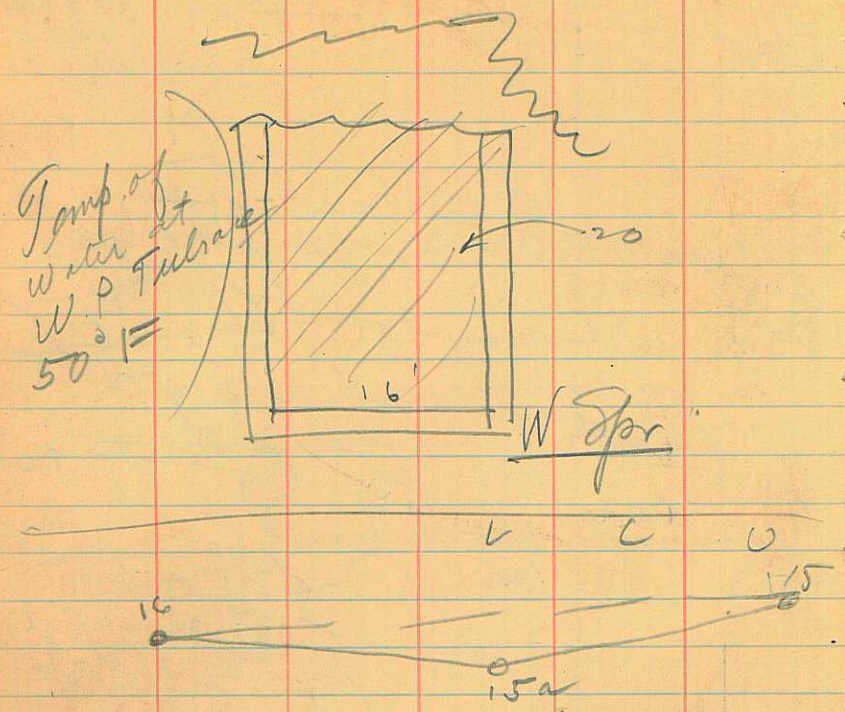
7 1 1 3

6631 / 6262 / 6373

Barometer read 6635
" at intake W.P = 6292
6604.2 saw notch in 2nd pier ledges
E Sp.
6610
W Spr 3½ above W I
on dry Mahogony on 1st ledge
6756.5
6608.00
assumed zero Condenser
6751.3 15



6605.8
6602.7
6601.6
6592.8
6588.3
20' D
50'
6558.0



15	258° 28'	-45'	4.0	11.3
16	83° 32'	2.0	+1° 12'	11.16

15a

30° 28' to cor Front Ln 87'
on slope

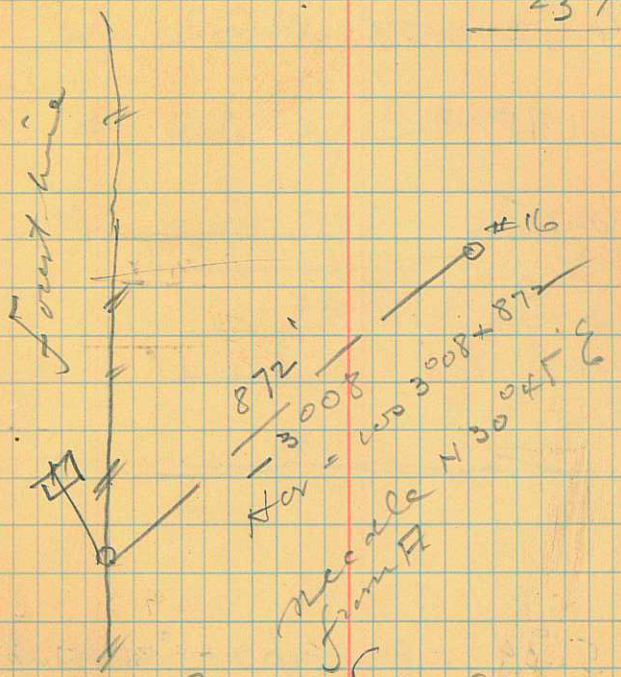
16

916

11 9
23 80

7.30
11 30
730
1160
916
2376

6262



Set 260° 23 FS to 15

15

6060
6060

6150

6195

6225 700 E of Warren St.

52°34 4.00 +1°50 5.92

24
24 187°51 2.00 +5°30 11.32

5.25

4.85

1x

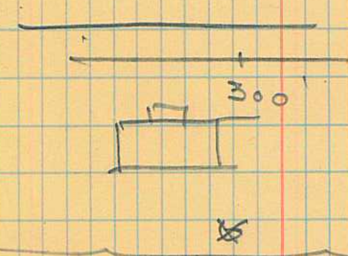
6262
6060
202

6225
6060
165

intersect Main + Track St
1 Hole

St. immediately E of Acadamy

at site of Acad.

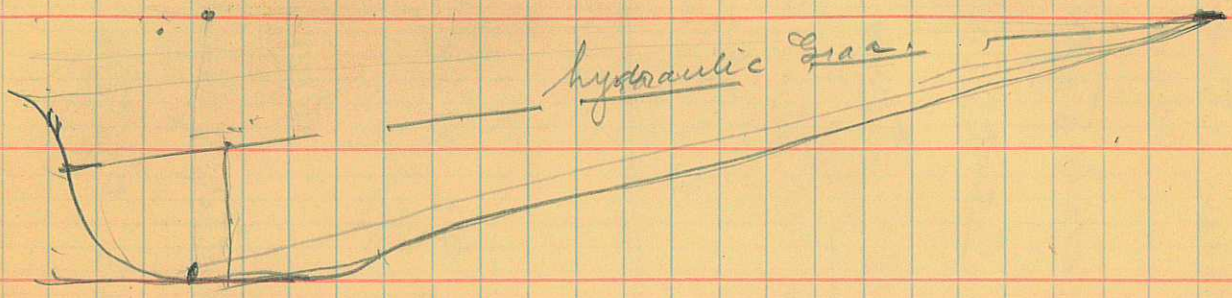


from pt 700 W
of 1st St E of
Acad - 30 ± to
Main St
to P.R. Canal

to W 1/4 cor sec 9 -

on door step of Dutch house

Set 208°23 E S to Pole


Hydraulic Grad.

19

P

150
430
550

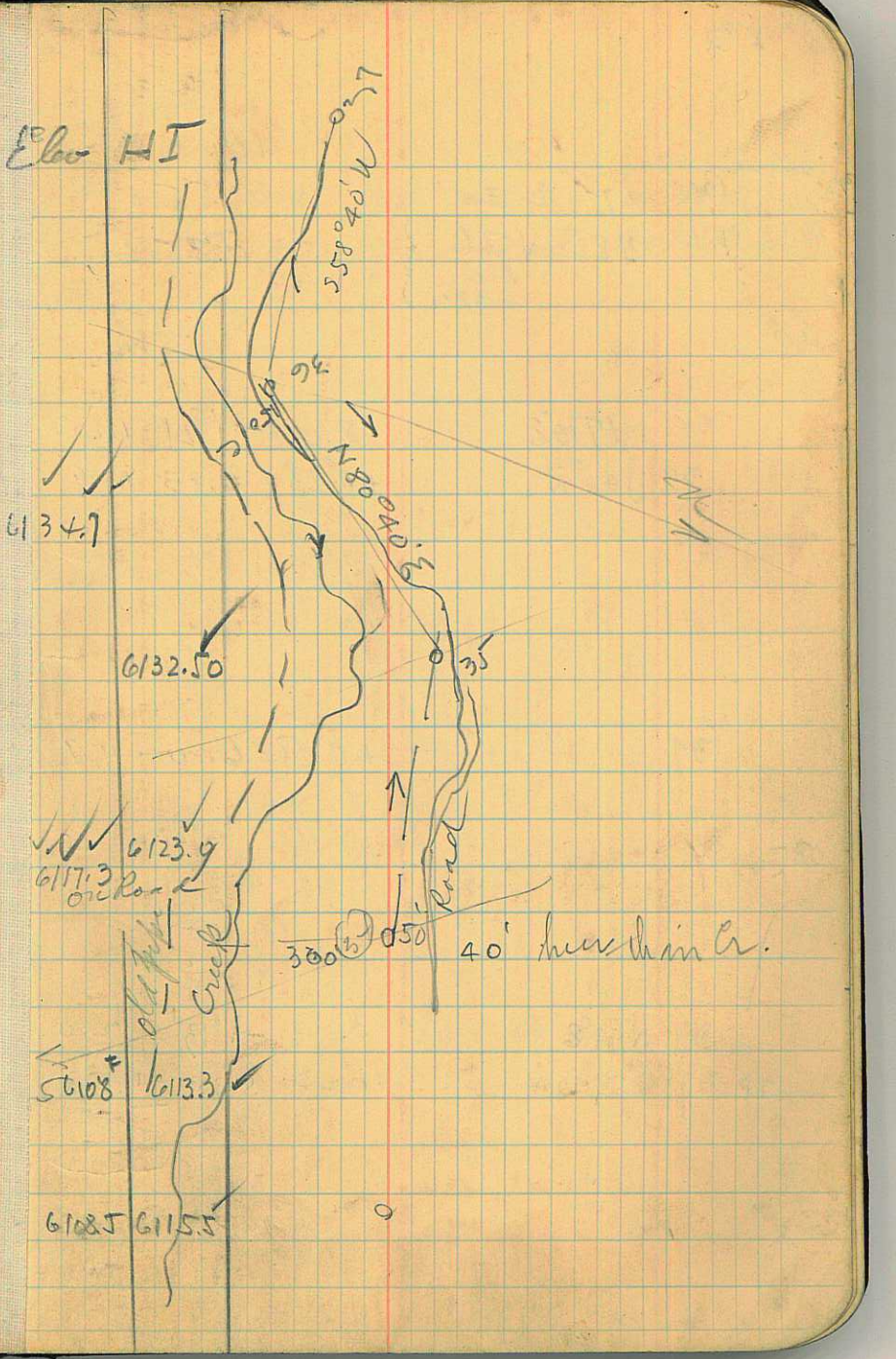
6215
6070
145

		Baro Hor Dist	+	7.00	11.65	Elev	Ht	Dist
TP 33	S69°W		-0°15'	2.00	11.80	6108.5		on slf Fedge to ℄ mill
	S52°W							
	S32°W							to approx intake Pioneer Canal
32						6114.0±	6119.0	
31	N62°10'E		+0°23'	5.00	11.36		6127.50	
TP 31	S64°45'W		5.60	+1°18'	11.0	6122.5		on app. inflow line SW cor. field, on Topo map wheat fl.
	S63°40'W		5.72	+1°41'	10	6123		
	W			+1°12'		~~64~~		to Paris R. Canal
27	E±		6.0	-2°22'	11.3		6097.5	
30		6215		4.8		6114.8	6118.5	Approx Res. site
27	S62°50'W	372	2.00	+8°31'	5.82		6092.4	
29						6032		on E side Wavis St. SW cor Sec 2
27	W	650	5.00	+8°03	11.65		6096.80	
28						6000.0		on Center St. By P. Canal
	W			+6°30'		6040±		to E side Wavis St.
27	W	880	3.0	+7°30	11.96	6088.5		on old rock wall over arch and
	So.			-44'		5960±		2 Blks
	E±	6070	4.0	-0°44	11.8	5962±	5970	Main & Center (intersection)
26						5975	5980.0	on Center 1 W

Note Sale 108± for approx sea level datum

Stadia

		Bear	Bar	L	C	D	Elev	HI
TP 37	S58°40'W		+0°22'	5.85	12.00		6134.7	
36								
TP 35	N80°40'E		0.0	-0°28'	11.5		6123.9	
TP 35	N66°45'W		+0°18'	4.00	11.45		6117.3	
34			6245					
TP 33	S75°40'E		+0°8'	9.00	11.65		6108.5	6115.5



2 23

					Elev.	HI
BM	N75°20E 30'		0.55		✓	on BM top 3rd post from Swaggart tail Road
#1	N81°30'W 26' BM 6320		4.85		174.1 on	er bolt of upper Survey at Chutek U.P
40					6179.0	
39	N17°10E	8.0	−1°21	11.0	✓ 6171.8	
39	S4°W	+0°28	6.00	11.9	-162.3	
36						Road
39		+0°28	6.00	11.9		Power Line
38					6158.1	Cable
37	N61°E	3.0	−1°13'	12.0	6139.2	
TP 37	S58°40W	+0°22	5.85	12.0	6134.7	hel x up 2'7
34						
36						

25

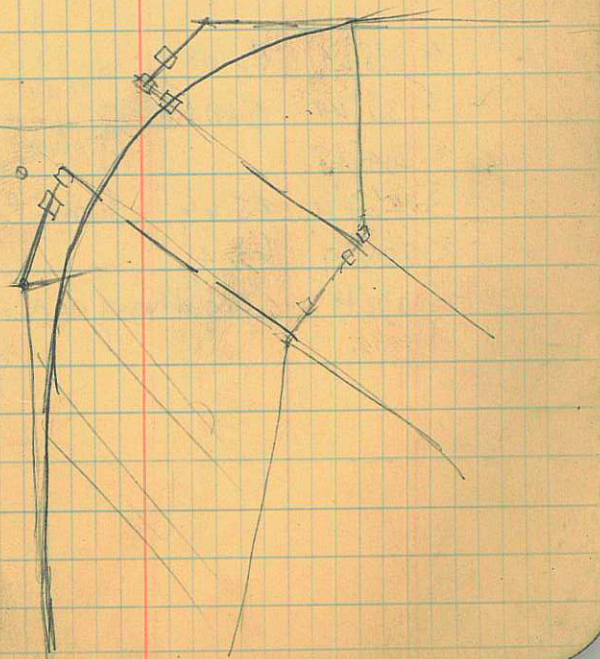
3/16

Were on ~~on~~ 8" pipe
near Pioneer Intake
7/32 1 ¼" apart

6132

C 3 20
Col 3 2
1 8 8

Main & Second So (9-11-3 Noon)



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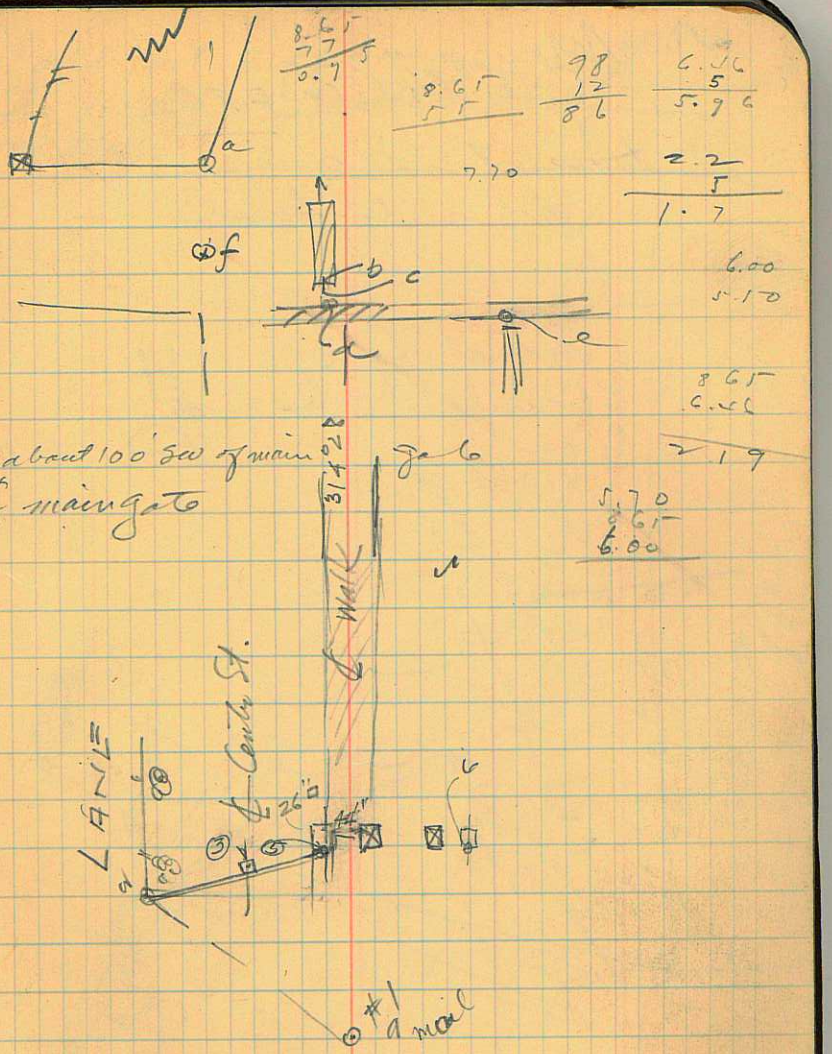
Smithfield City
Study at Cemetery Entrance
3-26-1934

e		8.12	
e		6.x6	
c		8.4	bottom datum
	7.70		
		2.60	
ⓐ		8.65	
ⓑ		6.35	
f		5.70	

6	338°24'	62.08	
5	311°49	56.35	
4	314°28		
3	264°20'	45.66	to nail on 2×2 stake
2	228°19'	63.4	
	238°13	Lightning rod on Romney Hall	



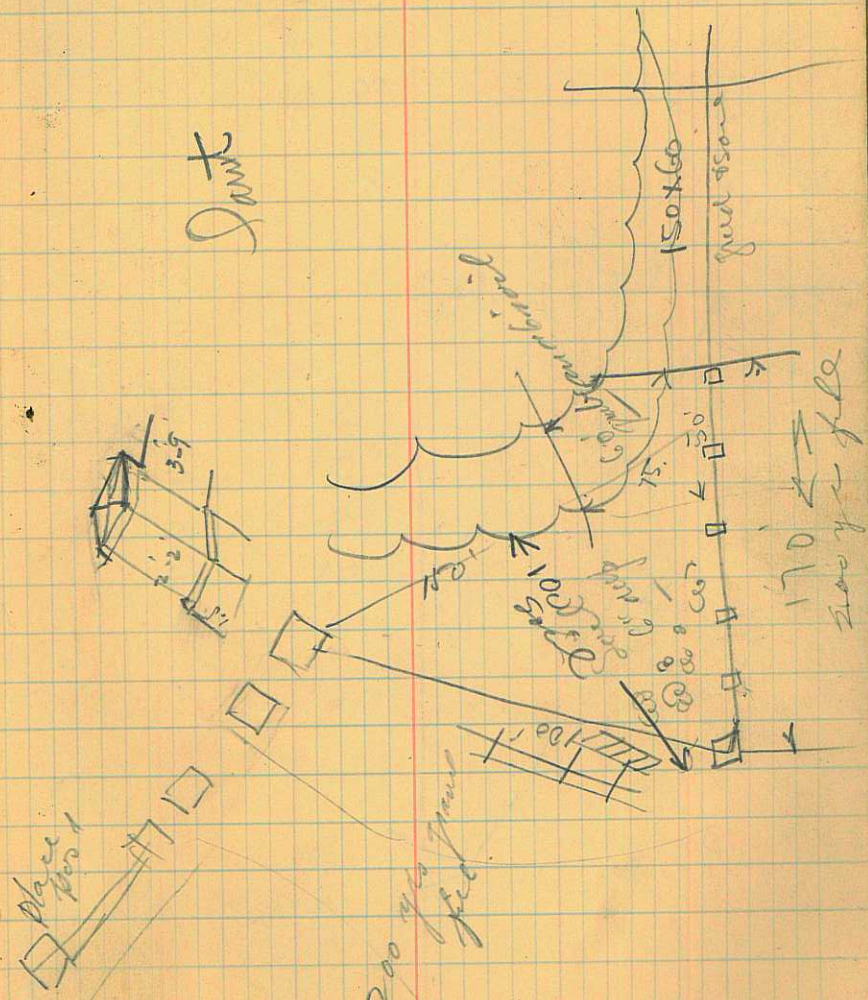
29 May - 1934

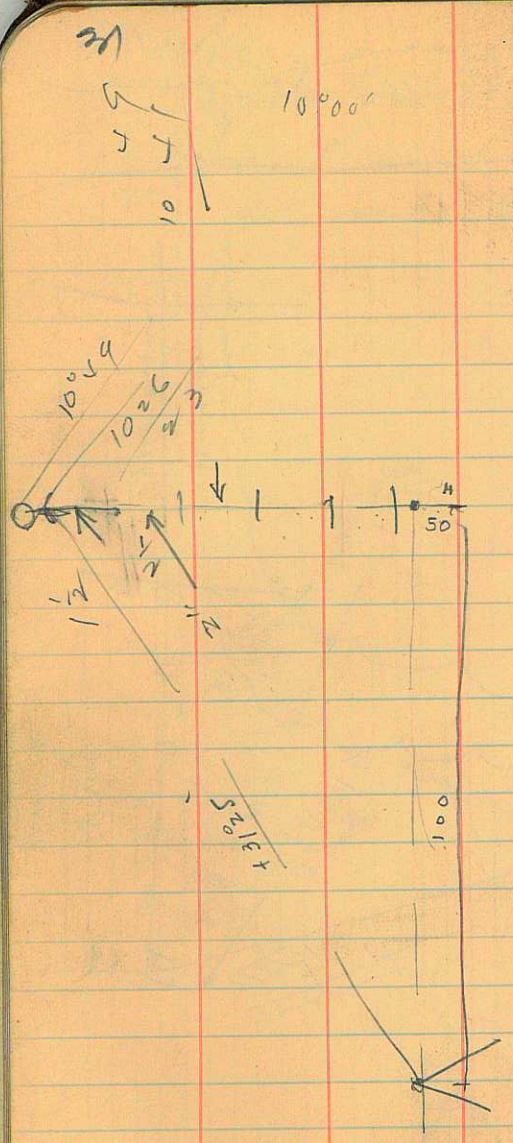
Smithfield FERA

Haul soil
2½ mile haul

Gravel fill
1 mile both ways

Call at office + get
St. work - N Center St from
Main.





1	6"
2	6
3	8" .23
4	10" .29
5	11" .32

29
8
232
.0029 .6 40
.00174
.0029
9
.261

Lee

Top #1	6
2	7"
3	8
4	10
5	11

29
8
232

6"
7"

33

Study of Rio. Jet on the Temple Fork in Logan Canyon at Mud Flat.

June 16 - 1934

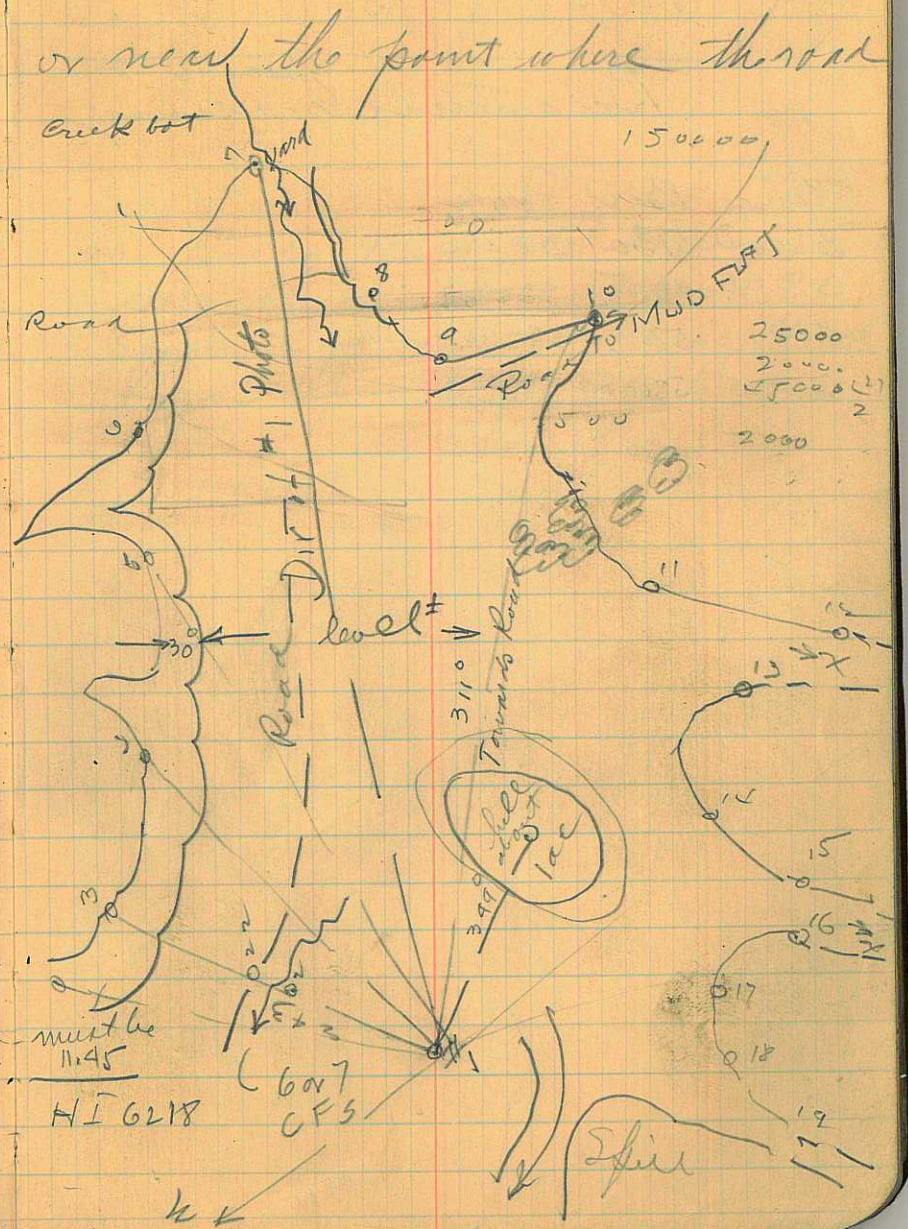
gates	over				
21	2440		9	−19°5'	11.45
20	68°		9		11.7
19	59°10		6	0°	11.4
18	30°		6	0°	11.4
17	14°15'		4	0°	11.3
16	9°30		2		11.6
15	22 1°33'	6146.	3.0 2 2.	−13°34' 0	6.00 12
14	345°40'		3	0°	11.7
13	336°30		2	0°	12
12	330°		0°	5.00	11.0
11	319°45		0°	5.00	11.3
10	310°55'		0°	2.	11.4
9	305°		0°	3.0	11.1
8	298°15'		0°	1.0	10.5
7	294°15'		0°	0.8	12.0
6	290°20'		0°	5.0	11.4
5	284°15		2	0°	11.1
A	265°30		6	0°	11.4
③	244°30		6	0°	11.3
	326°30	to Forked Balsam 1½ miles			
②	243°	6130±	9	−19°30	11.95
	260°29				

The dry line near top of pipe Mt. two bolts facing ↑ mean bottom

Bar reading

must be 11.45

HI 6218



35

June 16 1934

Barometric reading

time	Bar	Speed
3:00 P	6130	38290
3:15 P	6025	38290.7
5 P	5890.0	38292.4
5:10	5800.00	38293.1

38' 6130

6130
5890
240

6130
5910
220

on Road Mud Flat Wam
mouth of Hollow from N E
Spawn Wam 1/2 below Spawn Creek
Logan River Temple Fork Bridge

37

6065
5893
172

250
172
78

6090

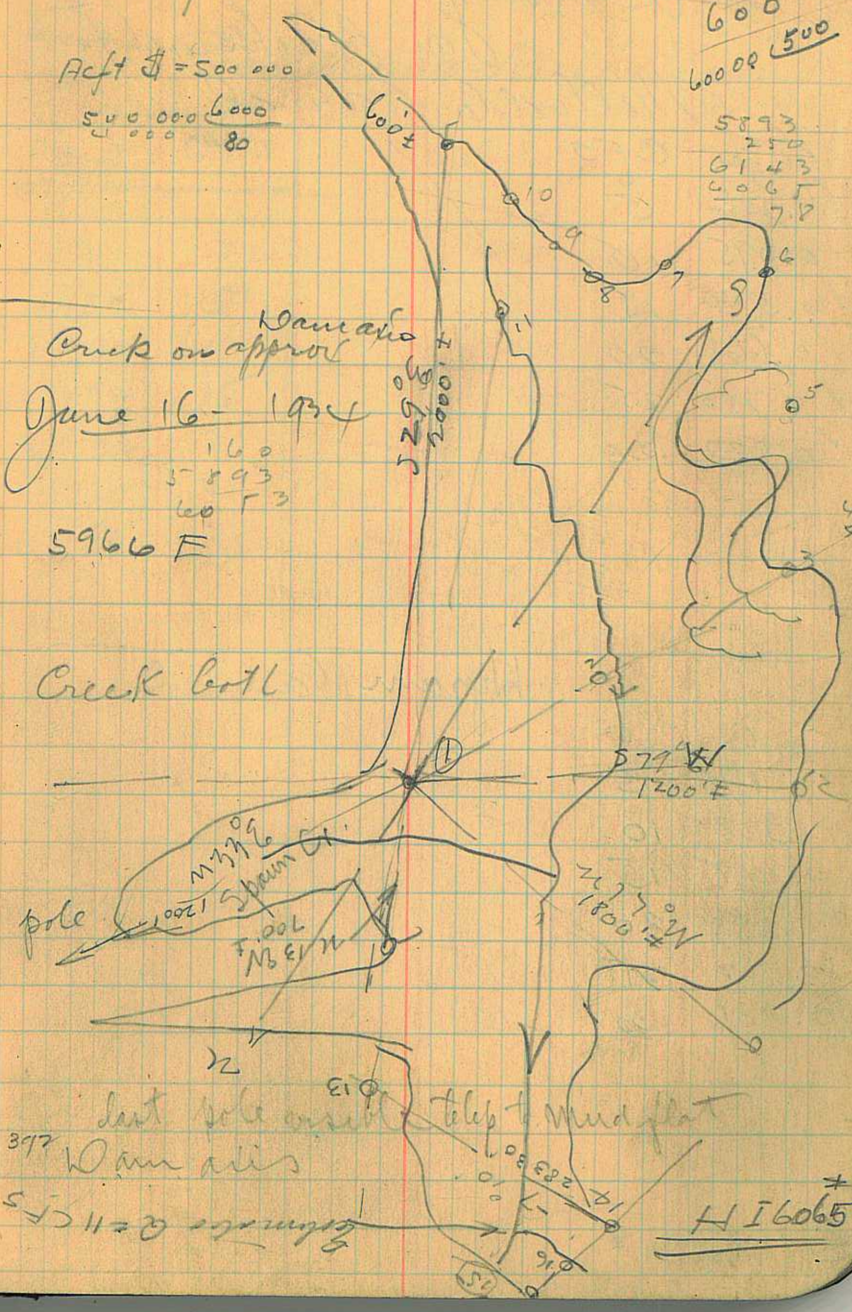
Dec 5 - 1939

16	195°	5890	7.0	-25°27'	11.02
15	200°41'		4	0°	9.95
	312°03	last tele-pole visible up creek main			
	254°32'	dry pine head spawn Creek			
13	283°30'	new set up	4	-7°10'	11
14					
13 TP	130°10'	5965	-3°56'	4	11.0
11	339°40	600 ft	-2°23	5	11.8
10	337°			2	10.5
9	345°20'		0°	2	9.9
8	355°		0°	2	9.8
7	0°25'		0°	3	12.2
6	9°55'		0°	2	10.2
5	24°40'	6090	2	+1°45'	11.9
4	36°40'	6065	3	0°	10.9
3	37°10	6049	5	-0°55'	11.7
	9.02				
2	37°	5970	7	-12°30'	11.1
1					

Spawn Creek Site

7780
6000
6000 / 500

5893
250
6143
6065
78



35 Rating curve 1934

for Blacksmith Fork

Mellor Canal

Gage	CFS
0	0
0.226	5
0.395	10
0.540	15
0.668	20
0.780	25
0.888	30

Hyrum Canal

0	0
0.170	5
0.328	10
0.466	15
0.588	20
0.702	25
0.806	30

June 1934 / $\frac{.888}{12}$ Rat

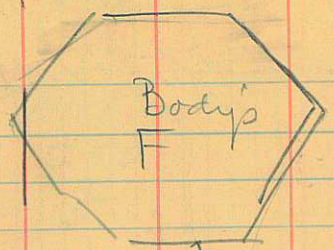
Providence-Millville

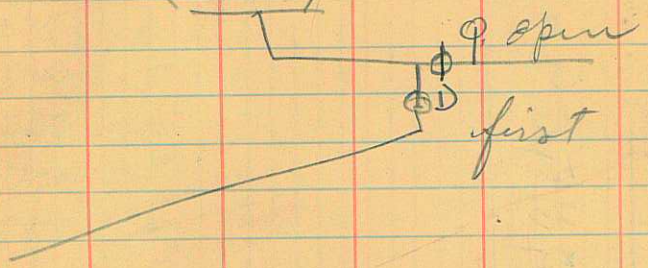
gage	C.F.S.
0	0
0.180	5
0.340	10
0.494	15
0.632	20
0.760	25
0.880	30

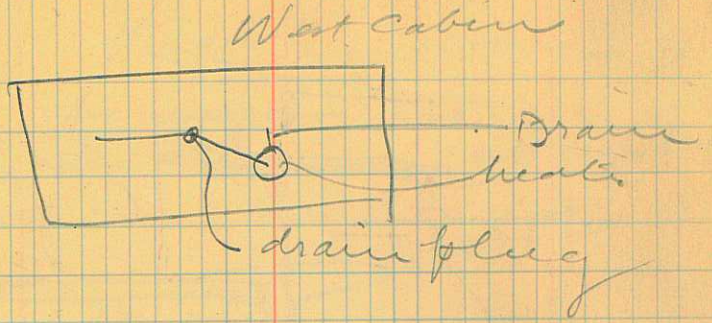
41

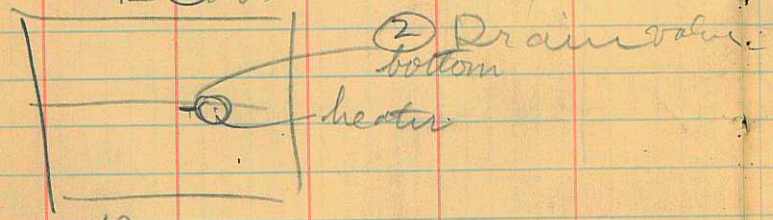
Sept 15 - 1934

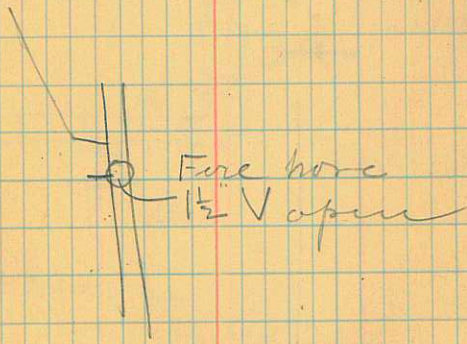
O-H - Drainage

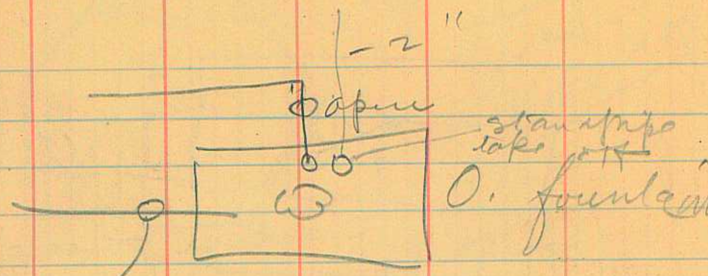


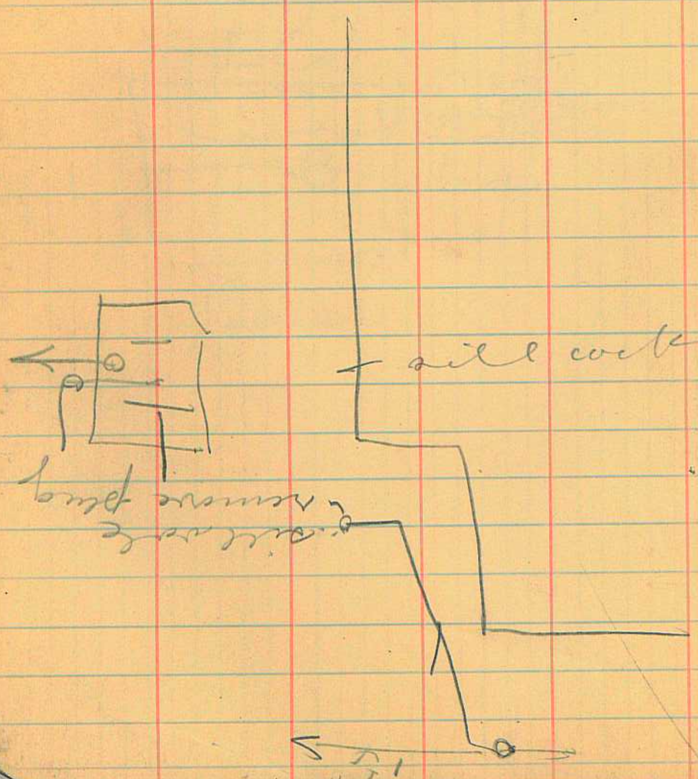








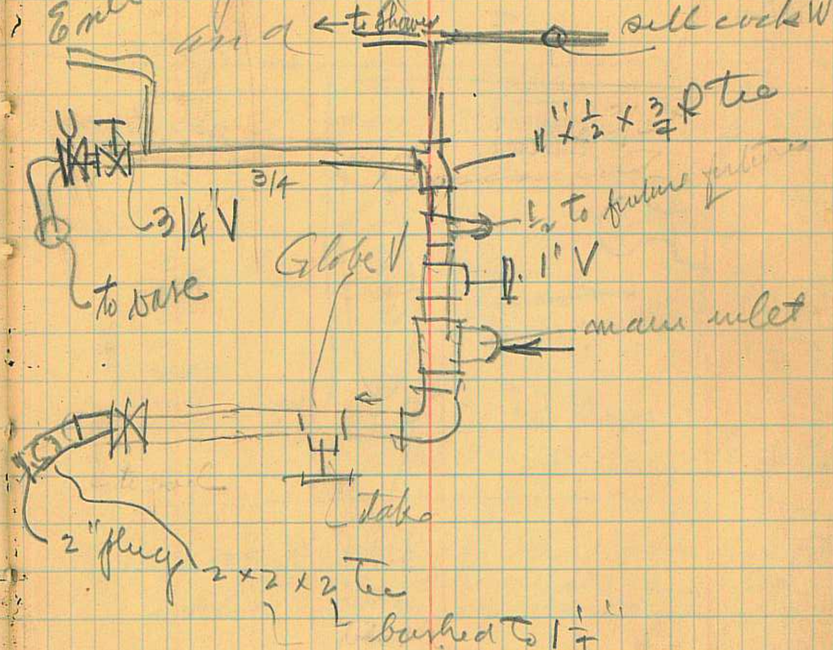




Basement

Bath-house

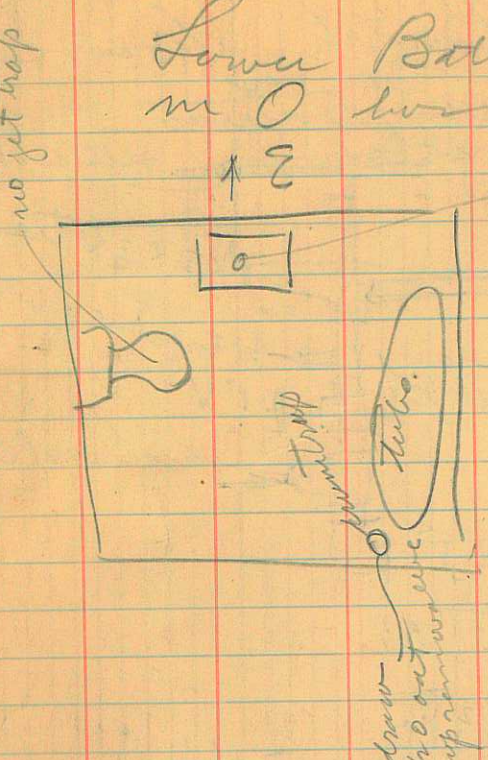
Will open shower valves and



Top of pole at Maid's cabin is 15' above road grade

45

Lower Bath room



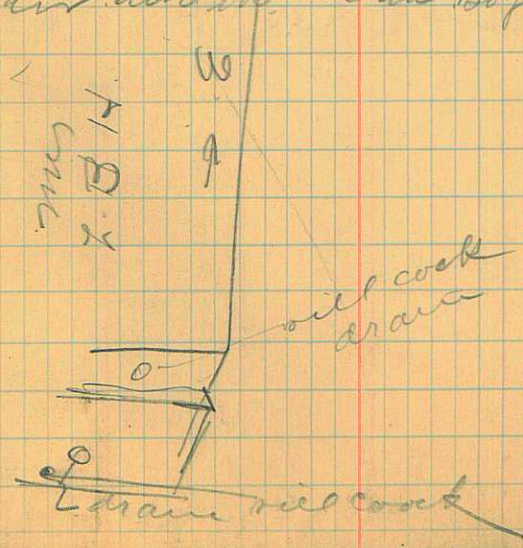
46

Note all other toilets except Odum are jet basins

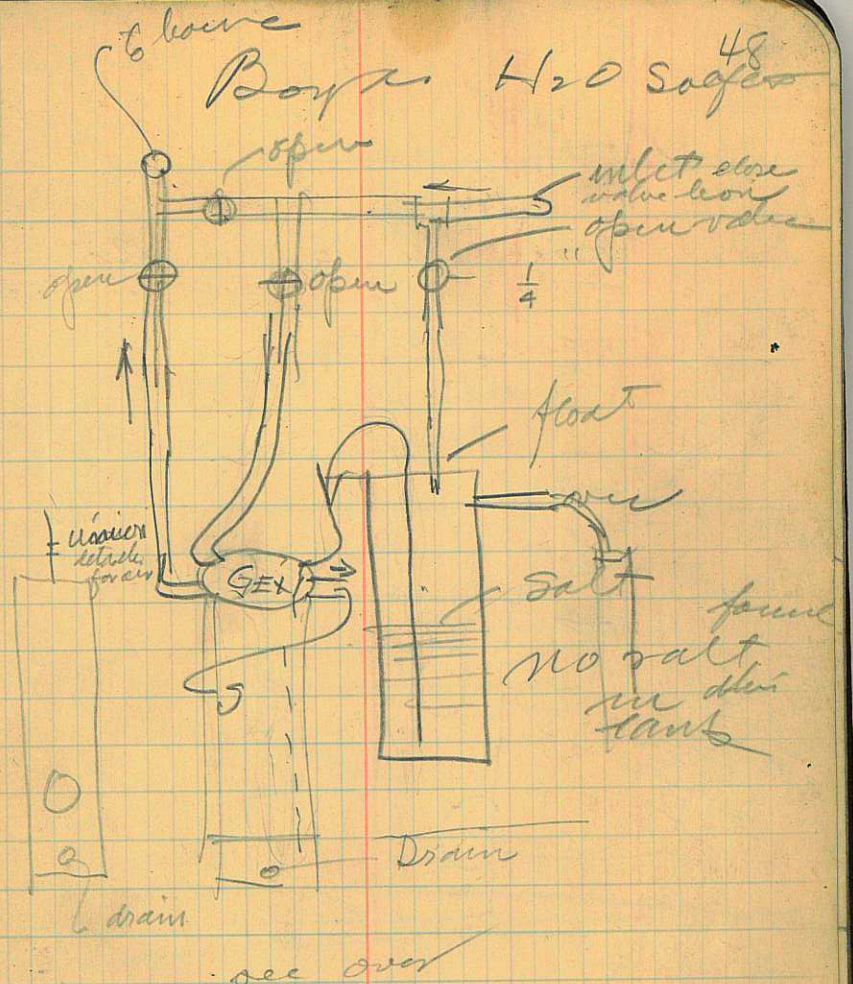
Note access thru L.B. Hatch sleeping here are two pulleys to draw

hard place to get in

Note in drawing Mrs L.B.H. bottle tank remove when above tank for air. also note air Boyds House

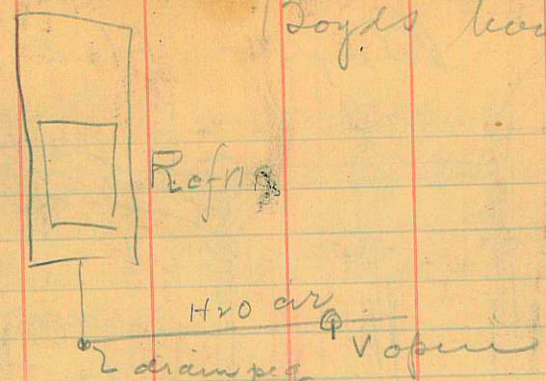


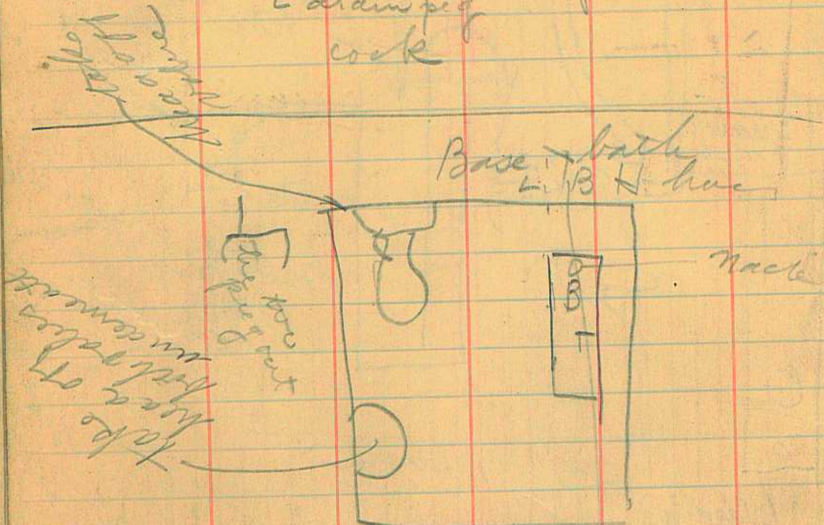
Not 2 - small
drain pet cock under
back of H refrigerators
small valves lead to
to be opened



see over

Boyd's house



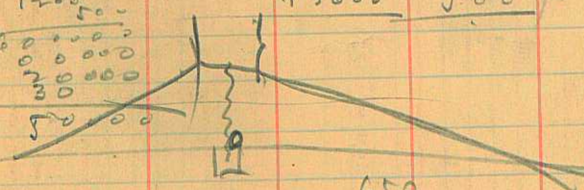


27000
5.

125000
13000

750
500

1200
500
600000
100000
200000
30
500000

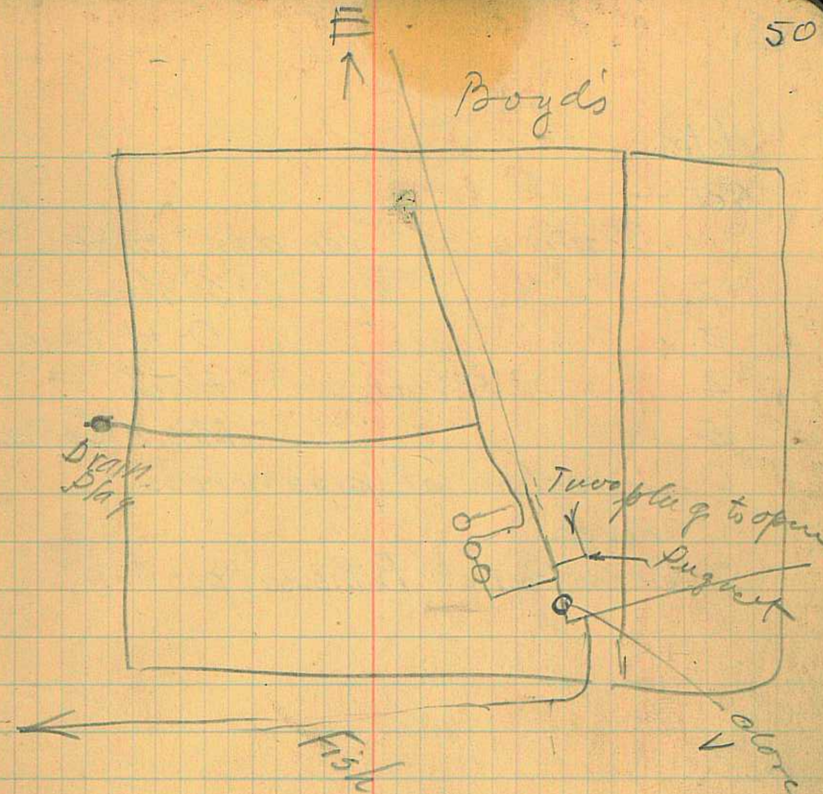


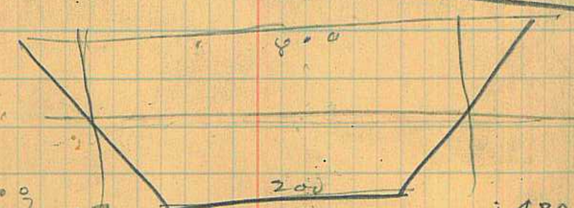
650
250
32500
1300
16250

6000
1800
500
900000

27
6000

Boyd's





125000
875000
27
30000
250
12
500
125000
625000

5#D'

480
40

100000

Note:
Get —

1. Position of Oven and pipe
2. " " Pipe in Cabins
3. " " " " O-H Home
4. " " " " Hatch "
5. " " " " Mrs. H. Cottage
6. Direction of pipe across river.
7. Scess Pool of Bathouse. position

3

165
18
1320
165
2970
59

Sept - 1934

Survey of part Lot 1
Block 7 Pl "C" Logan
City -

598.15

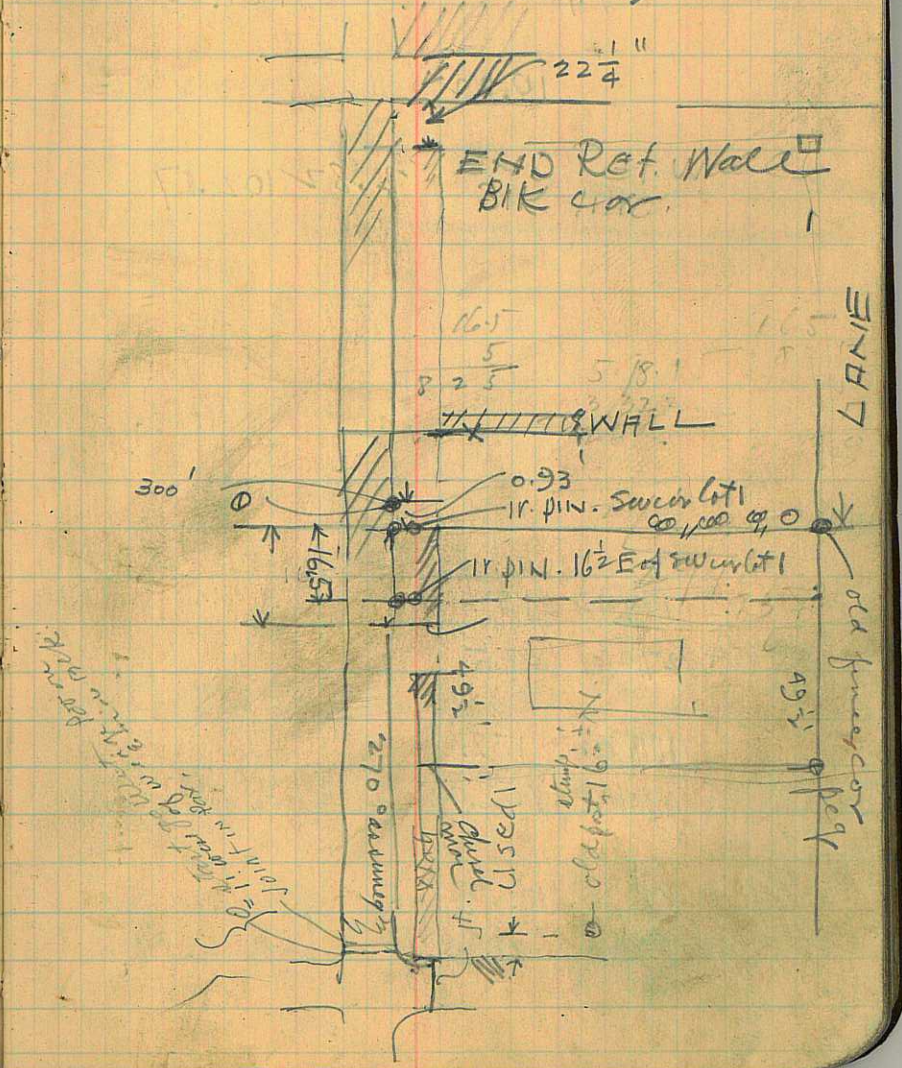
333.1' E to co Ret wall
that goes N
300 a mark nail in N edge
299.07

W

54

For S. Wondeness
of Logan

Platted



9-24
32

Levels

W[illegible]

5.6 | 4.99 | | | 100.00 | 104.99
| 10.02 | | |
| | | 2.82 | 102.17

5	179°42'	152.
4	270°	49.5
	179°42'	152.00
	180°	152.00
3	270	17.43
2	270	0.93

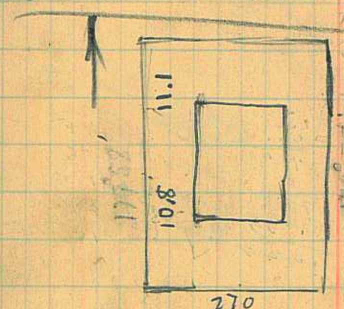
N

104.99
2.82
102.17

approx SE cor [illegible]

SW cor

80' back on stake 8" abv ground



N

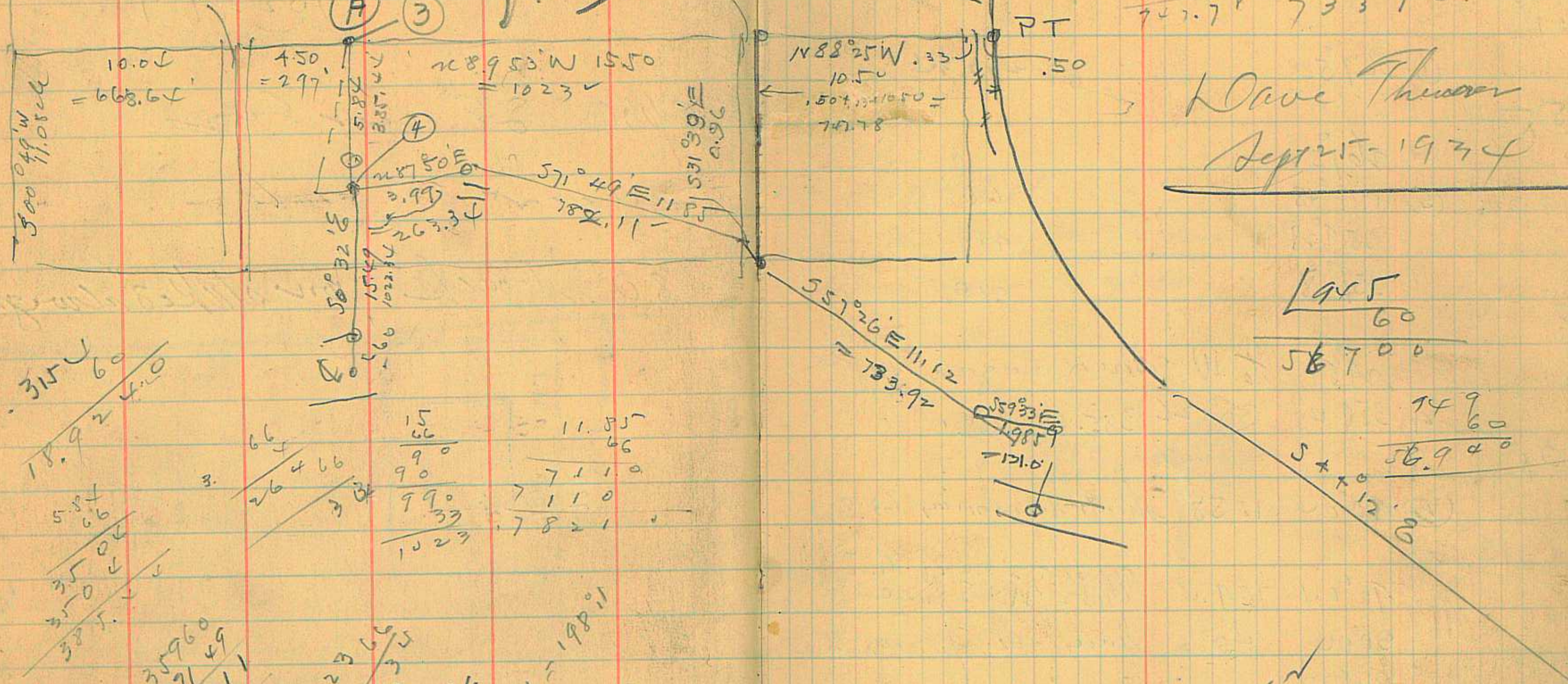
set corrected trace dir. parallel to W line lot 1

fell 17.3' E of nw cor lot post to lot 1 / Bet wall on tan drain line (that meas from S edge)

on N edge pav.

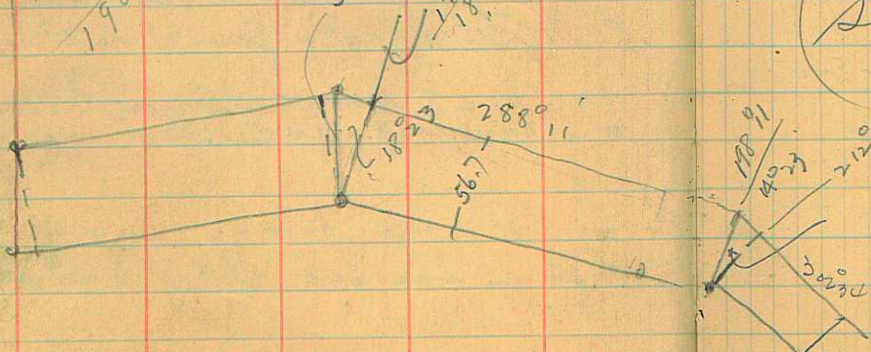
to fit in line with N&S west line of lot 1

From Map of 1908



Dave Theuer
Sept 25 - 1934

(Secover)



		Map	Meas
①	267°50		263.34
⑥	267°50		
⑤	179°48		60'
	359°28		410
	359°28		400.
	229°59	to W. spire of Logan Temple	
4	359°48	50°12 E 385.44	388.0
③	90°04	1058	should have meas 63.8
	90°04	709.4	cor post 2' N of line Cross N + S fence
	90°04	40	fence cor. fence goes N
	90°07		
②	91°27	740.	
		31	average fence go So
	91°27	21	fence on N
	91°35		
	91°27	747.80 =	

7

⑤

4

3

2

1

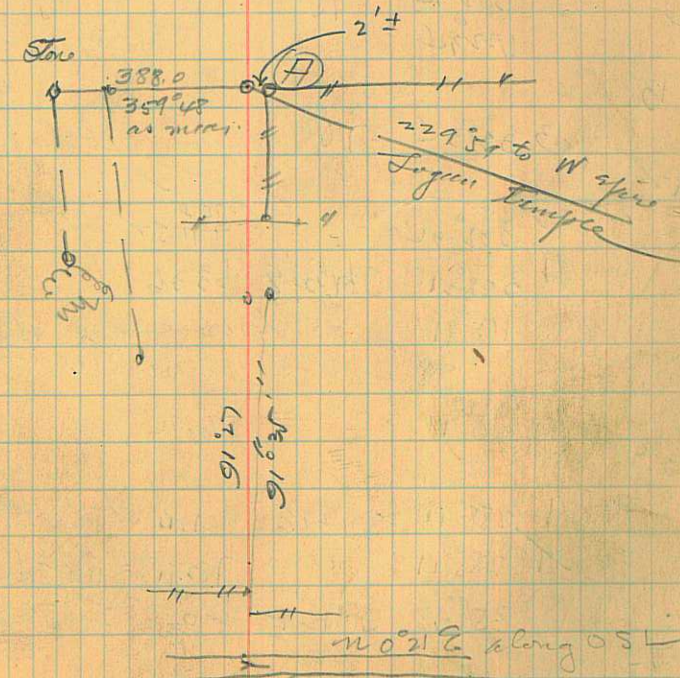
face
90°04

B3.92
74802

1023
33
1057

747.78
33
1023
1803.78
740
1063.78

offset pt.
to transit clearance
drove 2 × 2 × 4' stakes

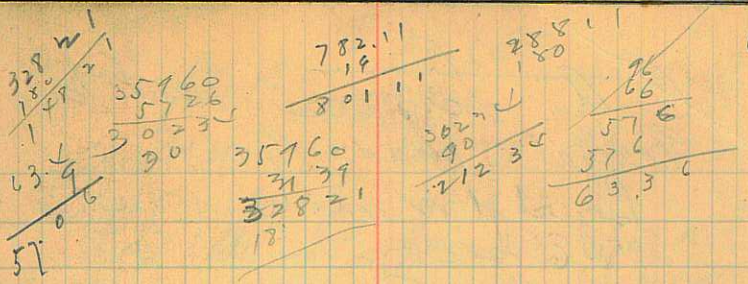


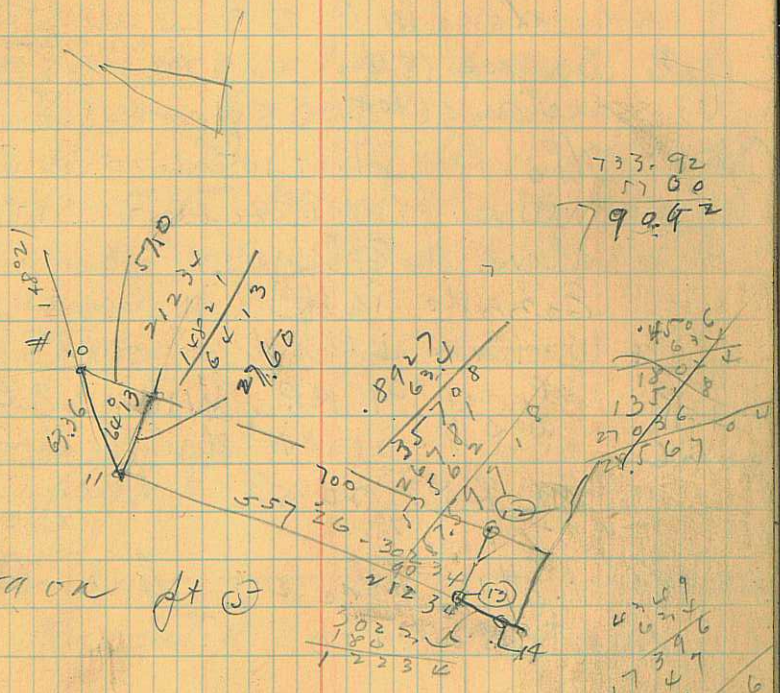
Indexed

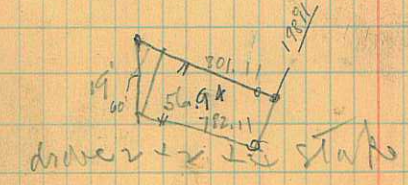
Survey added to
33°29 March 29 - 1935
see page 95

not set got 16' further

15
14 302°30'W 75
122°34'
13
13 32°30'E 27.6'
12
12 302°30'W 700 791.5'
11 328°21' S31°39'E 63.36
168°11'
drive 2 stakes
10
10 18°11' 56.9'
9
9 288°11' S71°49'E 801.11
8 288°11' 782.11 = 11.85ch
8 35°48' S0°12'E 60
7







drive 2 + 2 stakes

C. A. Larsen Mort 6
Federal Land Bank

Beg at pt 22 rds W of NW cor of NE¼ sec 27 - 14 N 1 E
S 20 r 10 lks E 117 rds N 17° E 89 rds along W l O S L W 59½ r
S 2 rds + 15 lks W 87½ rds to pt (more or less) due N of beg S 57 rd + 15 lks to beg (more or less)
Also Beg at pt 105 rd 20 lks E of NW cor of NE¼ sec 27 : S 17° W along the E l of O S L 27 r 18 lks
E 23 rds 14 lk : N bearing W 44 rds + lks to pt 10 r E of E l of Sd RR, W 10 r to E l of RR . S 17° W along E line Sd RR 20 rd to beg.

(margin: 68±; 4.75 ac)

Abst. #12 page 27 line 61
Mort 52 . 170

25 after 1st file # 105984 $4100

and N½ of lot 7 Blk 62

Pl A R. farm 10 ac±
set in sec 27 14 N 1 E

Also beg at pt 6.90 ch S of NE cor of NW¼ sec 27 14 N 1 E . S 9 ch : S 88° 30' W 5.25 ch . N 7° 30' E 9.20 ch . N 86° 30' E 4.05 ch to place beg
4.60 ac±
Total 87.35 ac

App. # 30493

Executed 1-1-1924

10-3-34

Barometric Readings

Oct	4534	Court House
	5390	Forks Bridge
	5850	Temple Fork
	6245	on Temple Creek Cross to Mud flat
	6900	on summit Mud Flat .9 mile from Creek
	6700	on pass into Mud Flat
	6560	
	6715	

Oct 5-1934

	Elev.	Dist.
C.L.P	____	0.0
Forks	5100	7.05
Mouth Feldgid	5400	10.80
Temple Fork Bridge	5630	13.1
Spawn Ar.	5775	14.2
Temple F Cy. + at telephone up hollow along telephone	5805	14.55
	6115 / 6135	15.2
	6375	

20000 / 9 = 65

6700 − 5300 = 800

5300 / 57

65-60 / 53 / 12 60

5850 / 53 / 550 / 7 / 385 0

Flat pt or knoll is about 70 ft higher than far ridge into Logan Canyon where telephone line crosses Lower end Mud Flat

{ at 5°15' PM mud. F pass. far ridge to Logan Canyon bear Spacon Creek about 6775 ft

5330

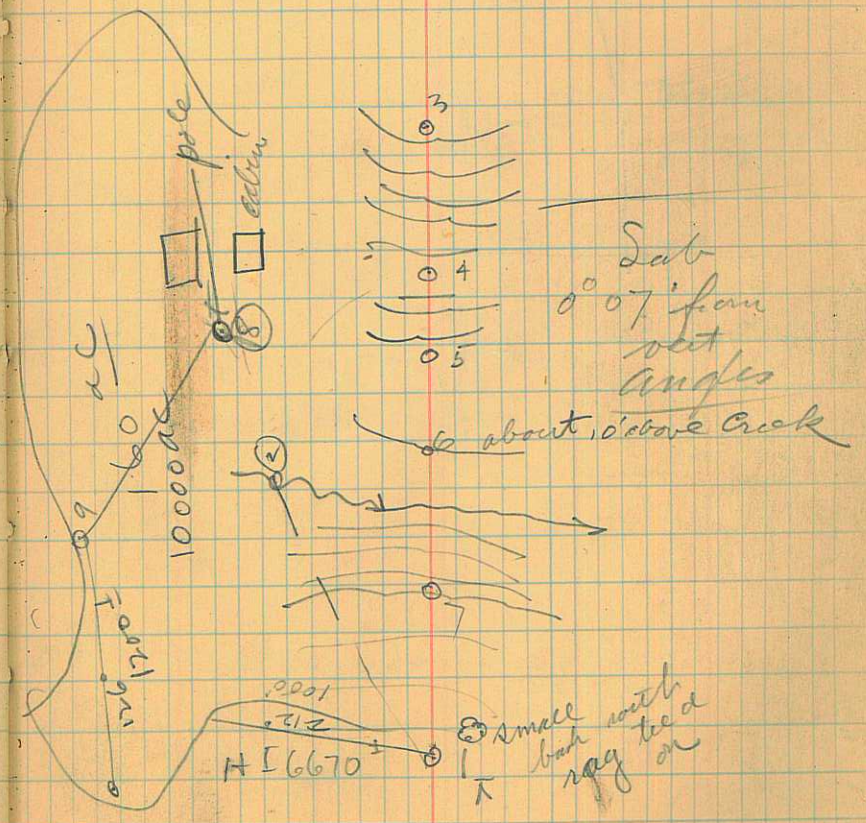
by spring over ridge from Feldgid

on pass N50°W on ridge 1/2 mile up telephone line where it crosses over into Mud Flat

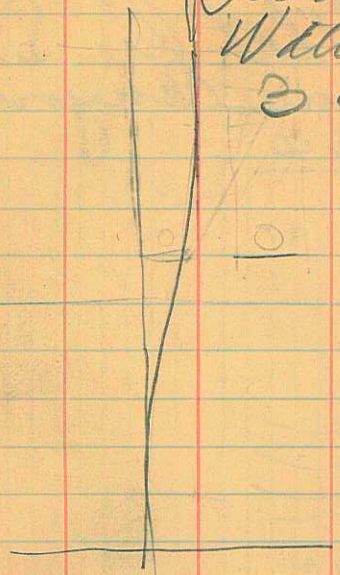
Con to page 79

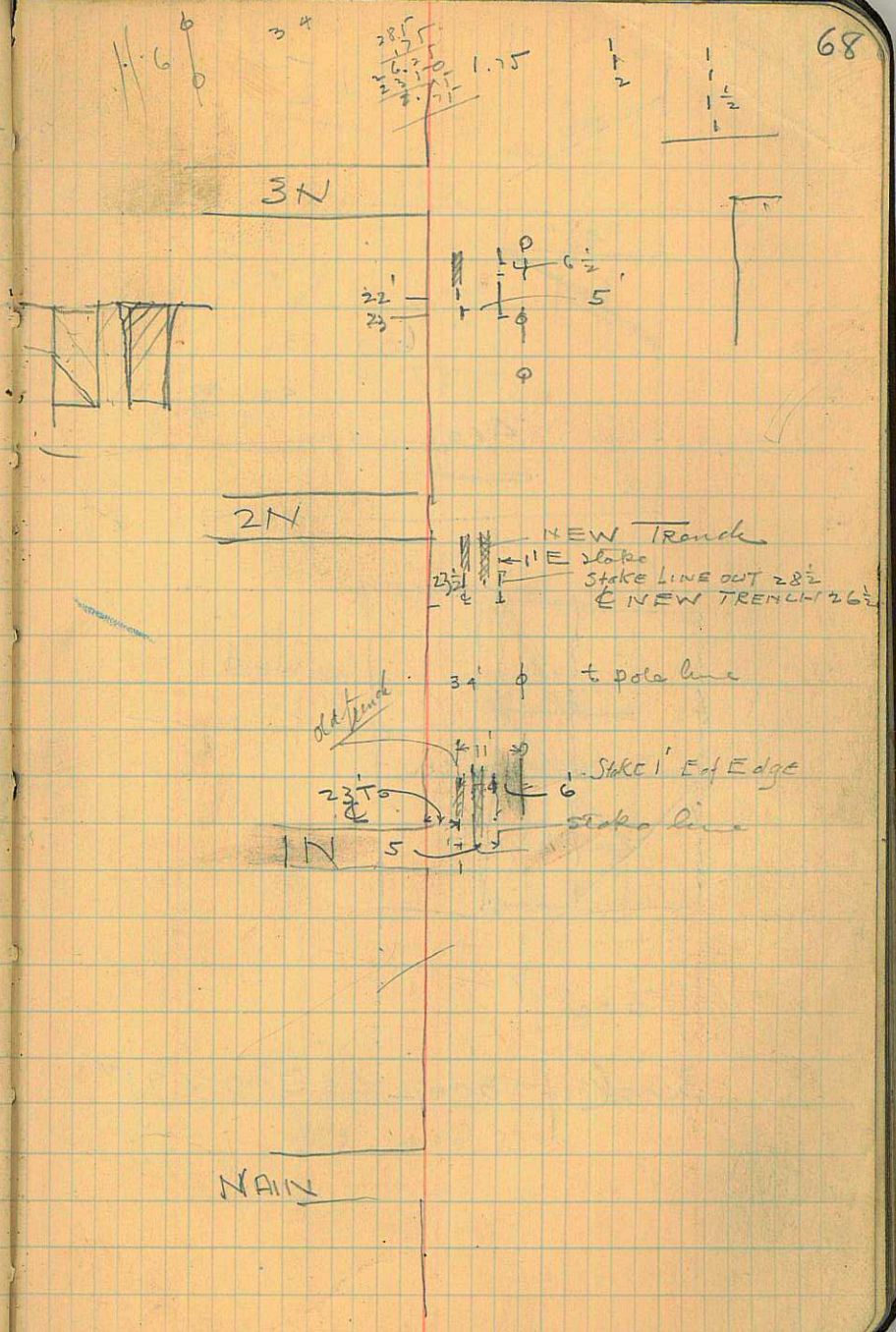
Mud Flat Res Sub
in Logan Canyon
Oct 1934

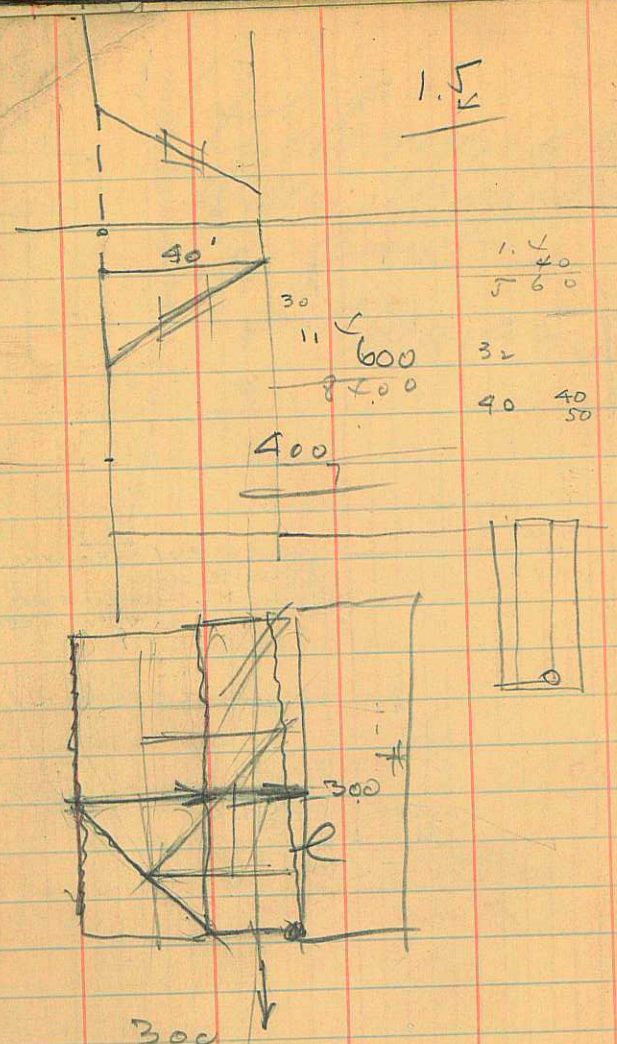
9	5°50'	−4°42'±	6	12.0
8	263°25'	−4 20'±	5.00	11.3
7	312°10	7	−10°41	11.5
6	312°±	5.0	−10°45	12.0
5	313°	4.0	−8°	11.9
4	313°30'	1.0	−2°44	11.7
3	314°40'	0°±	5	11.9
2	290.5	5	−11°06	11.65



Richmond Cut
Water Works ck
2 East
Oct 4 1934





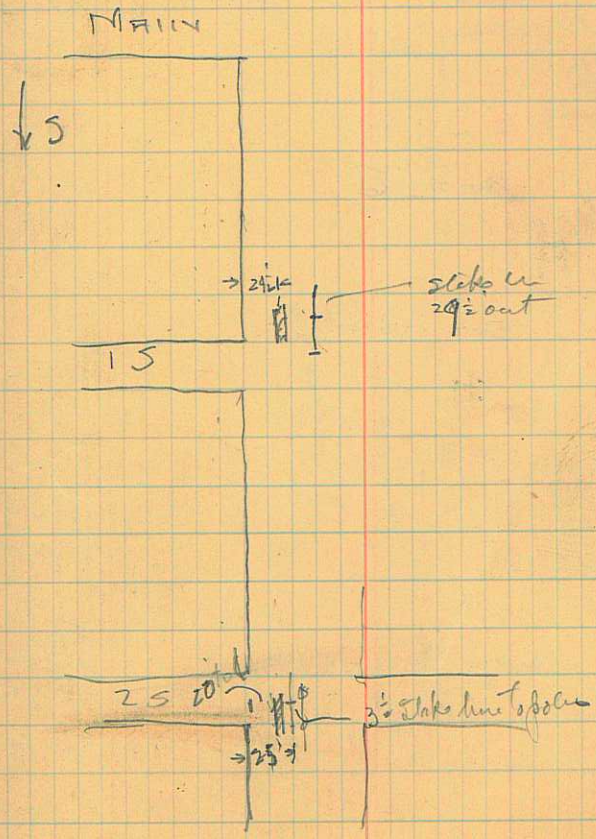


$300\ell = 300 \times 2 = 500 \times 75$

600

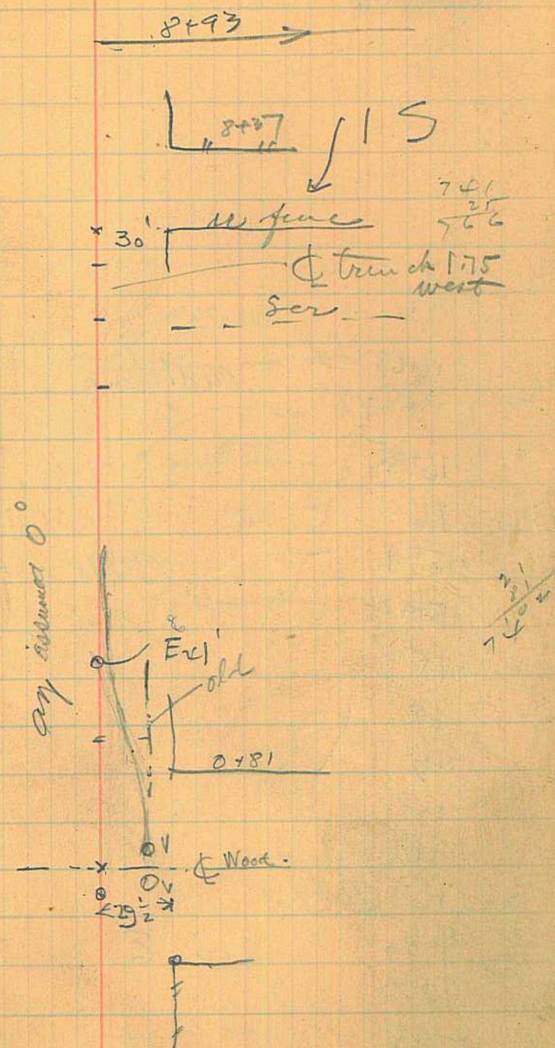
37500

Richmond



Survey of C.I. replacement
Richmond 10-4-1936.

Sta 8+93 ser West
8+50 stake
8+37
7+66 stake marked fitting
7+41
7
6
5+47 ser. E
5
4 00
3+52 Ser. West
3
2
1+00
0+81
~~0+81~~
0+67 main bears & East
0



16+68 Aud 1st line

16+02.5

16

15+27 Stake marked filling

15+02

15

14

13

12

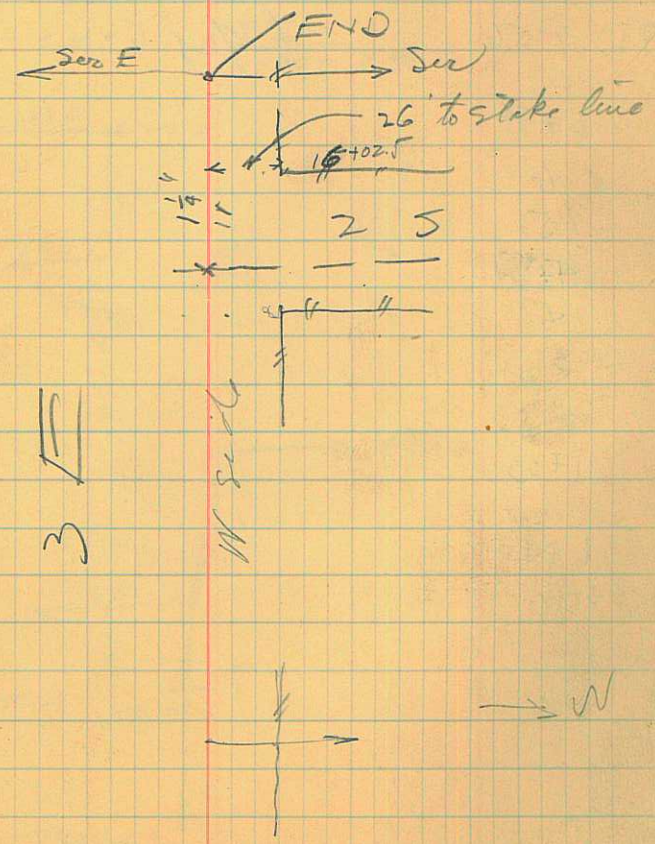
11

10

9+30 Sta. E

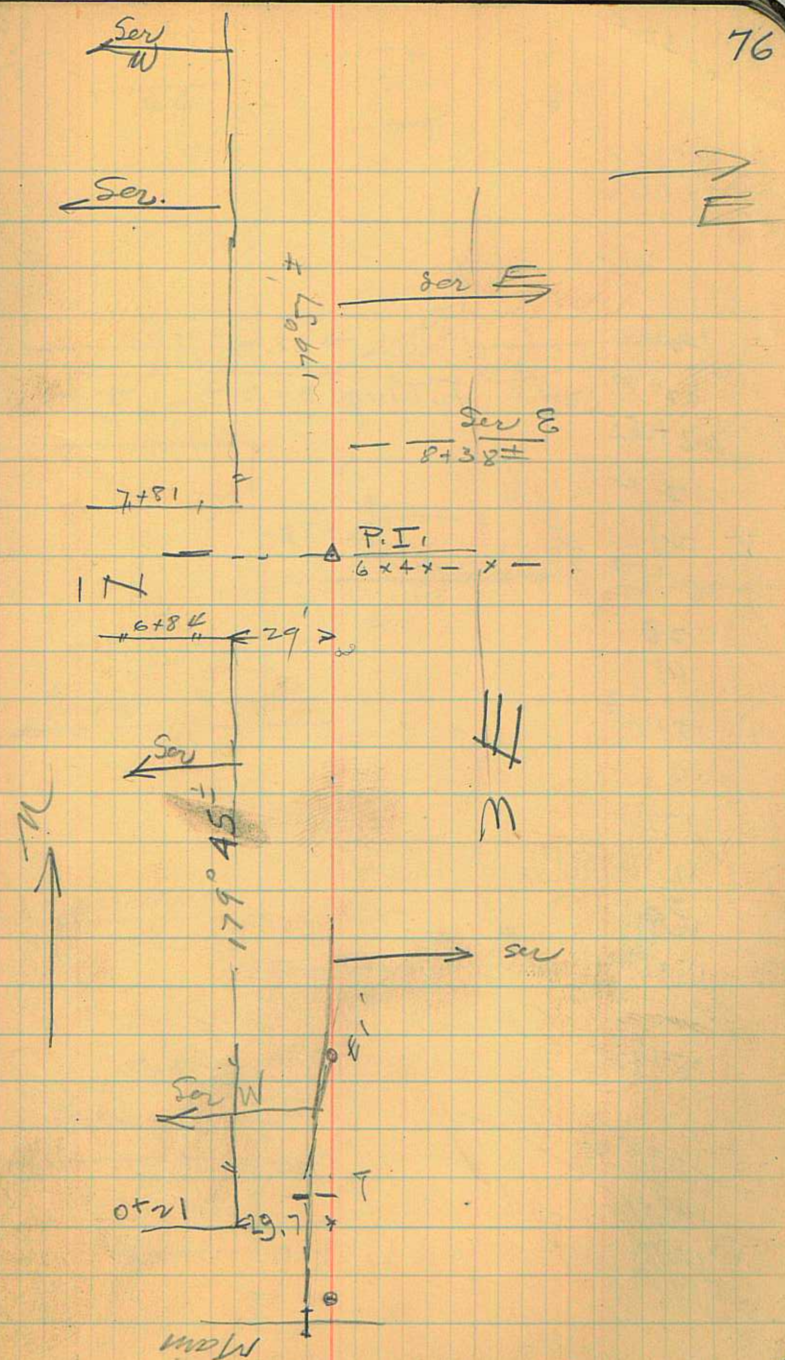
9+00

8+93



13+77
13
12
11+49
11
10+59
10
9
8
7+81
PI 7+56 — fitting 6 x 4 x – x –
6+84
6
5
4+58
4
3
2
1+33
1 N
0+70

0+



23+04
22+79
22+65.5
2 ~
21
20+59
20
19
18+39
18
17
16
15+91
15+59
15+42
14+49
14+00
13+77

Fettuccip 3 × 3 × — × —

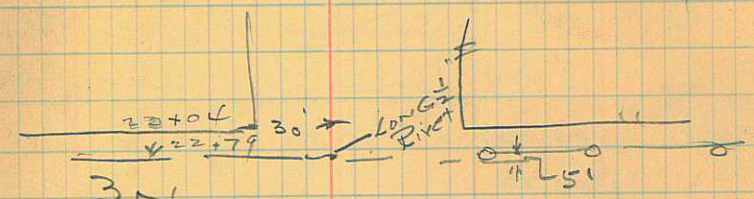
2279
1524
3806

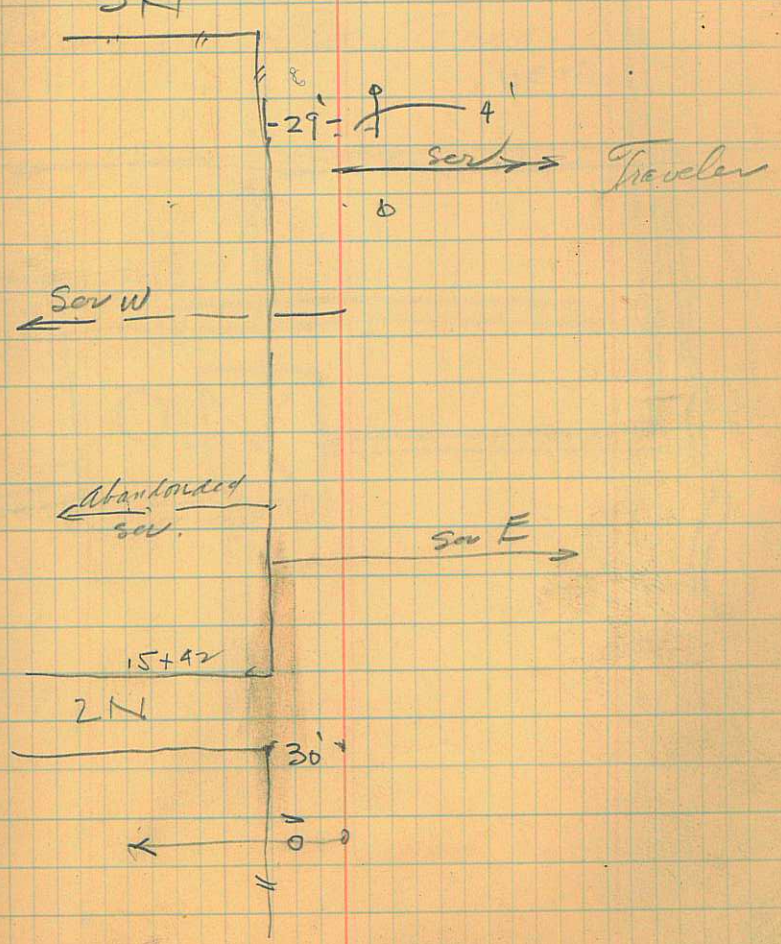
63
17
46

99
42
57

42
27
17

2304
2279
25





Oct 5-1934

Study of Temple Fork
& Feldsjed Hollow continued.
Transferred from page 63

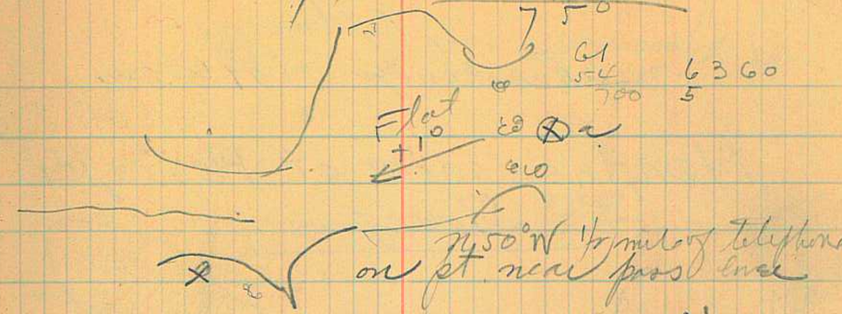
Elev	Dist
6360	
~~6230~~	
6230	

6375
5630
745

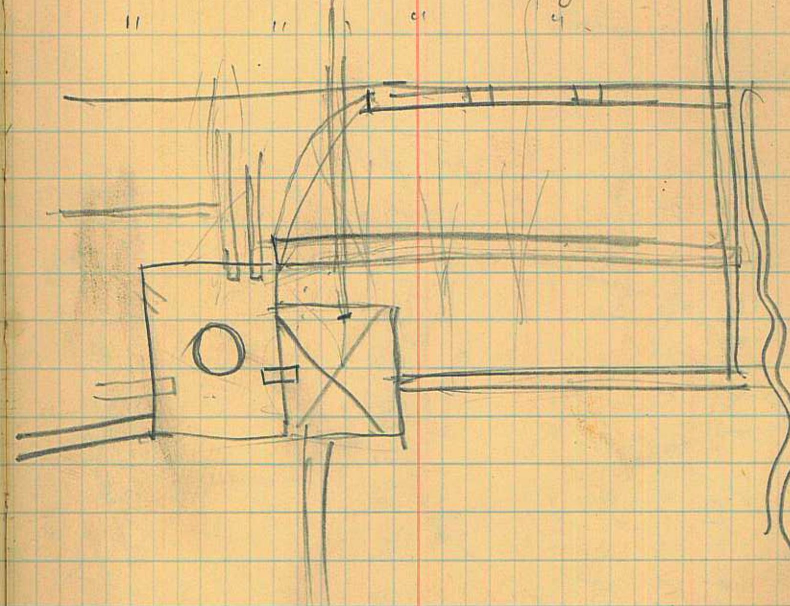
6700
5850
750

61
54
700

6360
5



Lower end Flat in Feldsjed.



Oct 6- 1934

Survey for Arthur Newdnswander of Weston

Newdnswander of Weston, Ida.

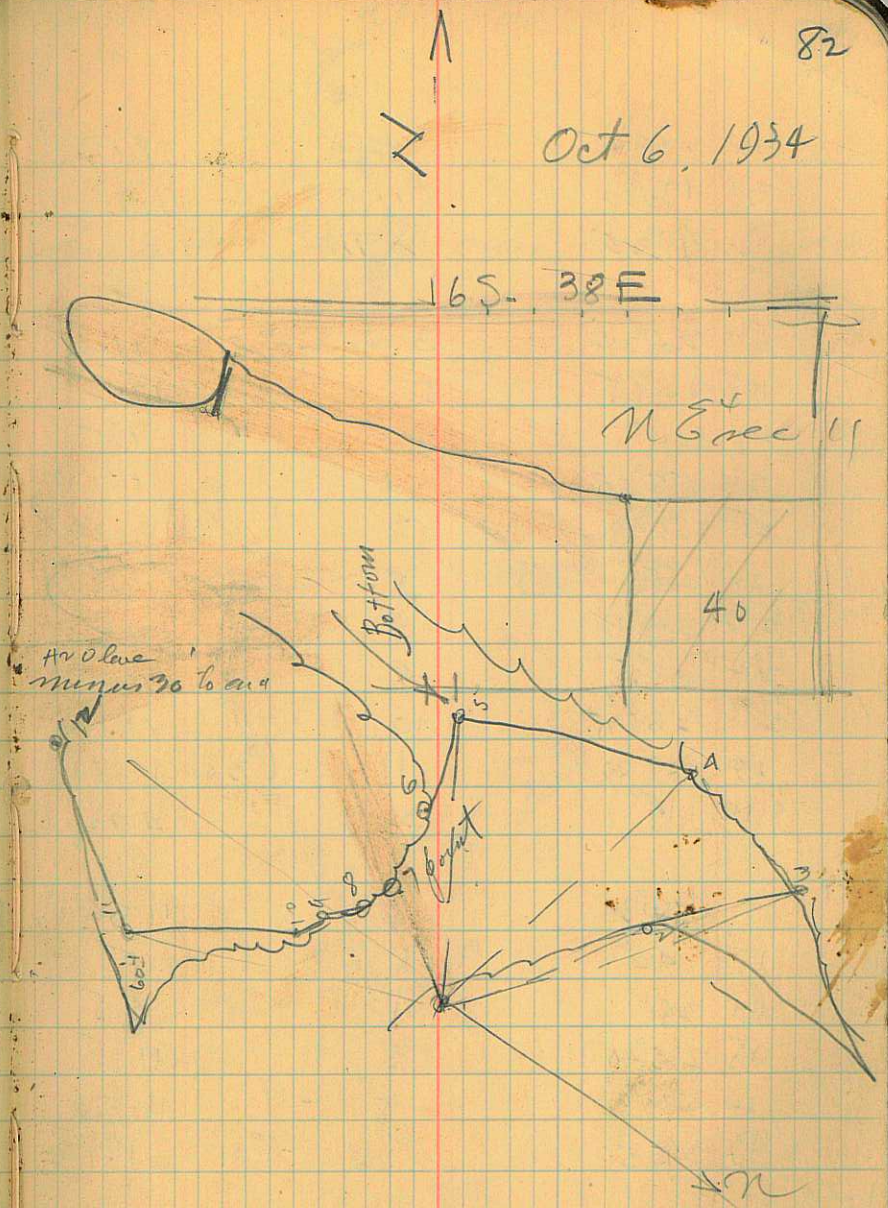
Survey

Pt	Az.		
12	326°43	7.0	11.3
11	305°35	9	11.73
10	5°30	10.	11.1
9	28°	10	11.13
8	56°	10	11.20
7	68°20	10.	11.53
6	62°40	9	11.6
5	65°	8	11.9
4	91°35	10	11.85
3	114°20	8	5.95
2	113°10	4	5.18
	249°28.		

Franklin Co. Bridge Smoke Stack

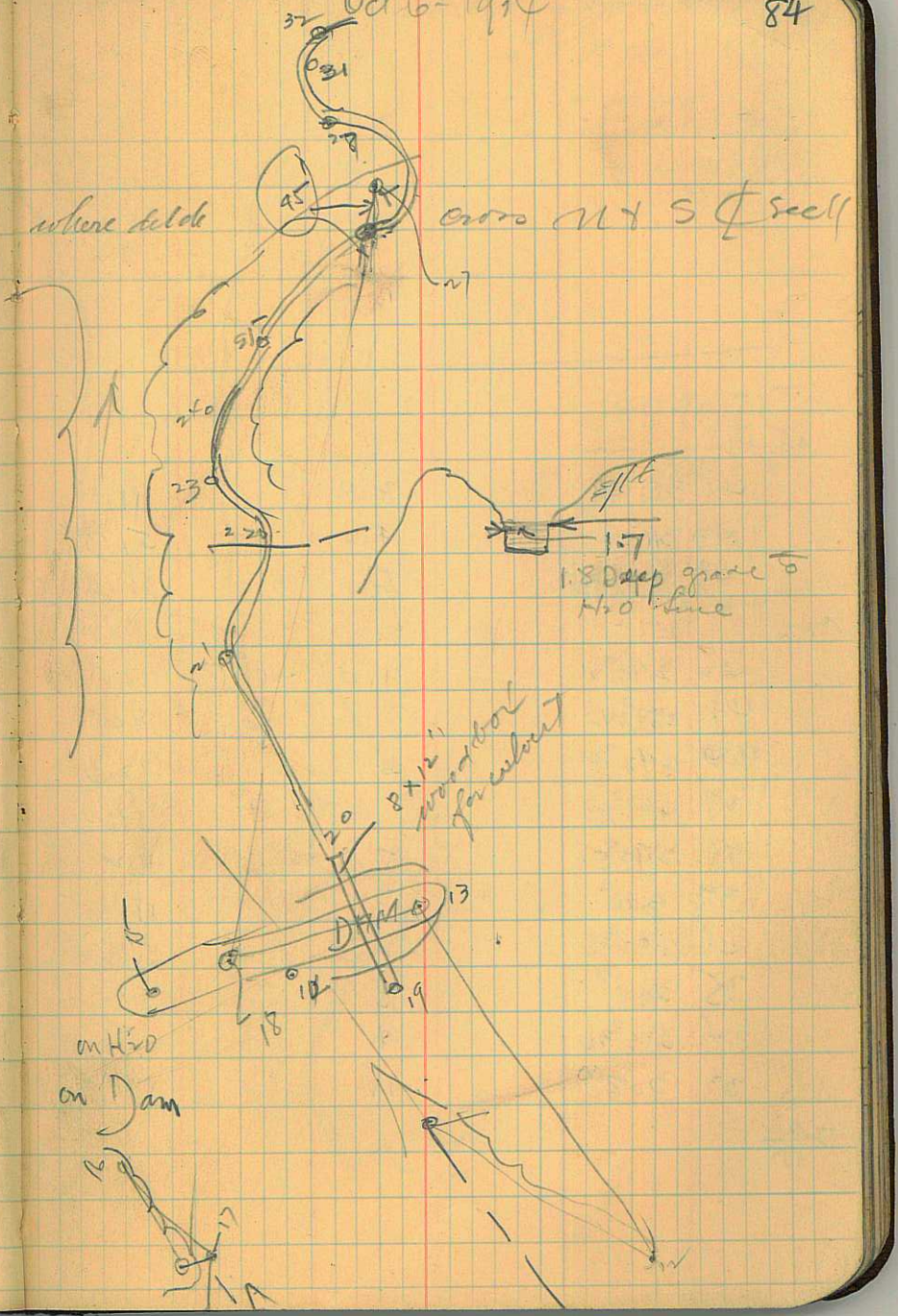
1

Oct 6, 1934

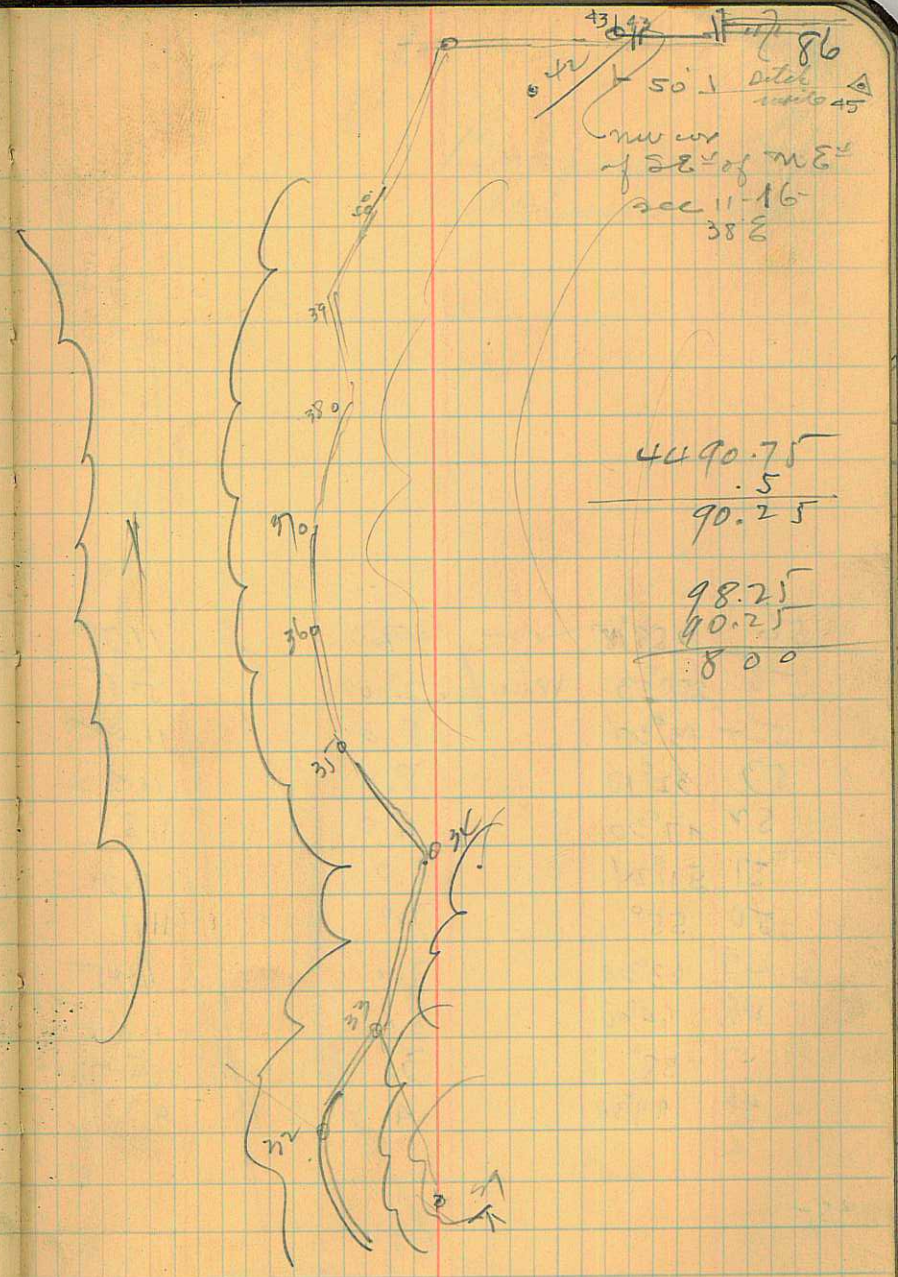


Oct 6- 1914

32	240°45'	9		9.5
31	173°10'	11.5		11.7
30	98°20'	~~X~~ 10		11
29				
29	266°24'	3.00	-0°18'	11.7
28	261°45'	5		12.0
27	264°		8	11.5
26	257°55'	6		11.7
25	258°30'	7		11.6
24	255°	8		11.85
23	263°40'	9		11.9
22	268°25'	9		11.28
21	265°15'	10		11.50
20	329°30'	11	-6°30	11.81
19	19°	3		3.92
18				
18	274°39'	8		11.36
17	40°	8		8.15
16	281°	4		5.5
15	265°40'	8		11.15
14	284°30'	8	-	11.37
13	295°50'	8	-1°01'	11.7
1				



45				
45	355°38'	2.0		11.1
44	311°32'	4.0		5.13
43	228°35'	6		7.16
42				
42	290°31'	1.0	-0°15'	12.1
41	288°14'		6	11.45
40	292°20'	3		12.3
39	291°35'		7	11.0
38	292°50'	5.0		11.2
37	290°	7		11.6
36	292°45'	2		5.62
35	308°	3		5.6
34	316°30	4		6.15
33	308°	11		11.73
29				



44 90.75
.5
90.25

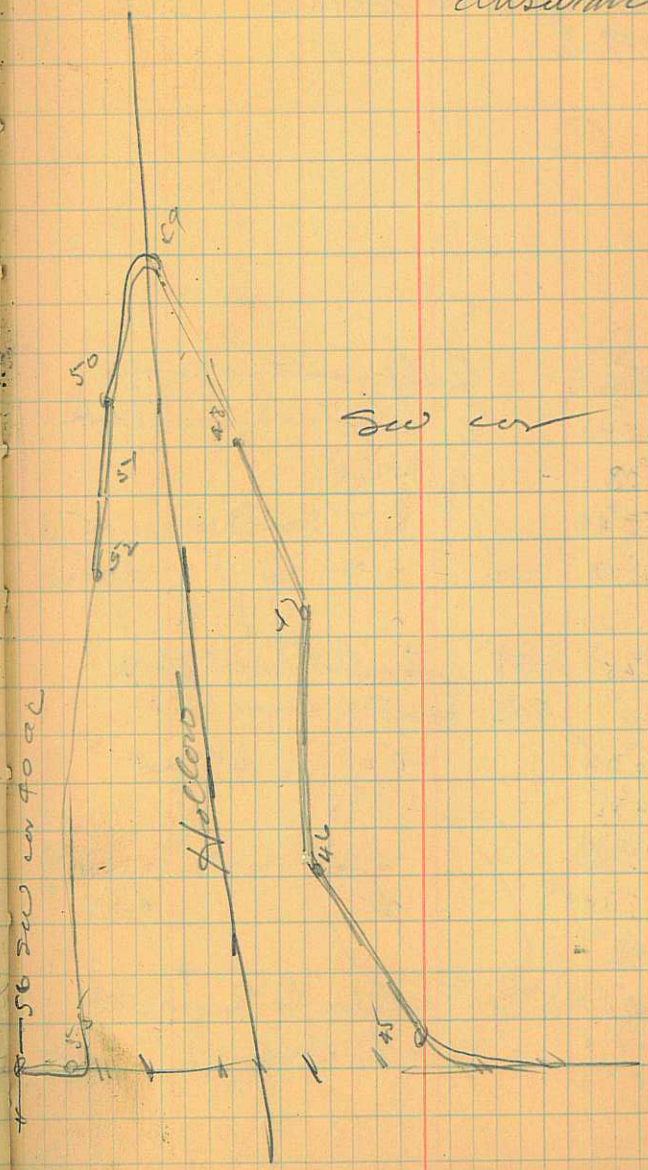
98.25
90.25
8 00

Fred Jensen - single 88

Beneficial Life
Insurance Co

56	359°18		7.0	11.78
55	358°53	water fence	2.0	5.5
54	13°30'		8.0	11.02
53	32°10'		8.0	11.92
52	47°30'		8.0	11.8
51	51°24'		7.0	11.3
50	55°		7.0	11.7
49	63°30'		7.0	11.45
48	64°40		8.	11.55
47	58°		3.	5.7
46	49°30'		4	4.77

45



Sec cor

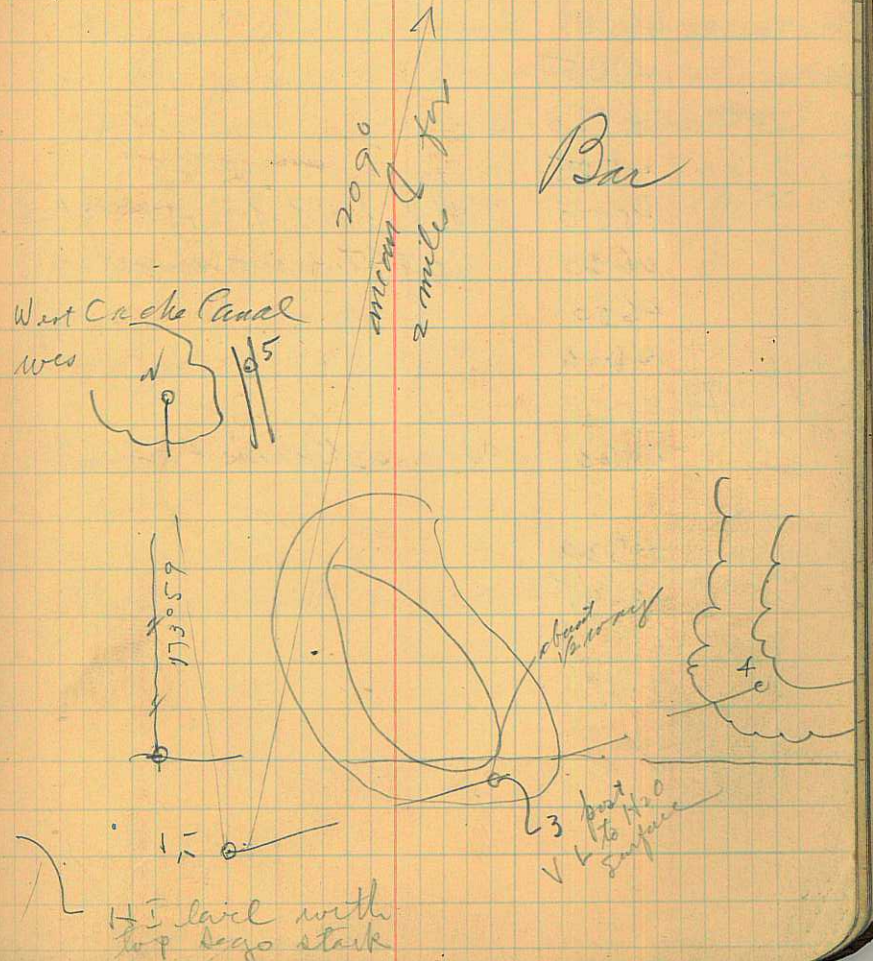
Oct 12 - 1934

Reservoir Study

on Bear River

on the S line sec 5 - T 16 S - R 39 E -

	349°04	Gulley Lewiston pump			
	320°48	℄ Lewiston Sugar Stack			
3	301°38		-7°09'		
(5)	258°44		7	-19°11'	11.05
Δ 4	278°23	-12'	7	-	11.01
	348°45'	-27'	to outlet Lewist. pump		
	320°	+0°5'	Lewiston Sugar Stack		
4	256°32		-0°21		
3	259°35		-9°18'		
2	173°58		-0°15'	6.0	11.30
5 ± 5	151°48		2		4.28
	209°				
	259°52	℄ Franklin Co. Sugar stack			
		+ 21' to top stack			



Oct 12 - 1934

D

X 1. 4785 Speed off scale

(A) 4625 160

Oct 17 - 1934

set 4536

4610

4635

4487

4555

4550 W C Canal at new 5 CFS plant

4630 Outlet near small canal

4680

4620

(A) 4555

4860 Warm Creek Canal

4720

4675

{ on SW cor top rail of bridge Piston
{ Highway Golf Course
~~Logan Court House~~

Logan Court House
+ Slate to main Richmond
Richmond Canal Merrils road
Cub. Run Bridge E of Lewiston
Lewiston Pump Canal 500' S
of Lewiston Road near Flint

5 CFS.

pt 4 Warm Creek
on pt 300' W of pt 4

Piston - Riverdale Road
near little Res.
on Junction Road where mink Creek
Bear River Riverdale & Portage

Abandoned

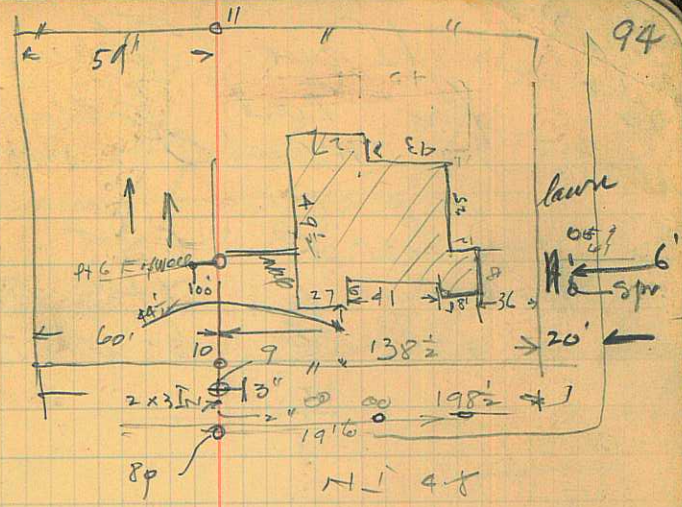
Oct 16-19 1914

Survey for Providence

2nd Ward, Proof of appro

Henry Hollow

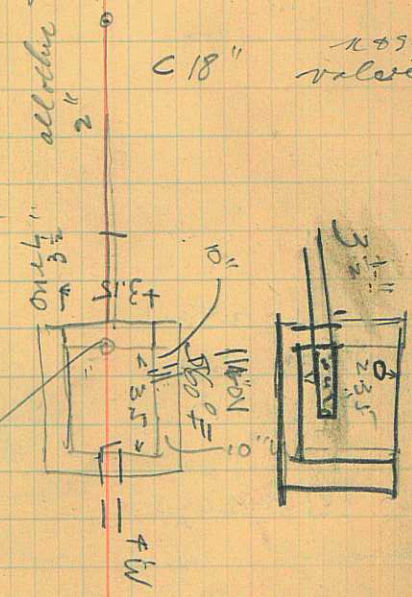
"	W	32	to pt 11	
		24	to west side Spr. ground	
10	W	37½	to E line Blk	
9	S 82°30 W	25	To 3" valve -4°30	
		19	to Ditch goes N	
8 p				
8p	S 89°30 W	300	-4°0 C	
	N 89°30 W	255	-3°44	cross canal
	N 87°55 W	200	-4°	over 2" pipe
2" V	N 86°24 W	66	-2°35	2" V. stem
7 p				
7p	N 43°30 W	130	-1°32	
	"	97	-2°05	2" waste
along	N 44°10 W	90	-2°45	
6 p				
6p	N 67°35 W	80	-3°	
	N 67°35 W	10	to 2" V + cor tie	
5 p.				
5p	N 55°05 W	145	-3°30	
4				
	283°33			
1				



Heading on 2" pipe

C 2'

2" branch S



Angle point

cut 1' to grade

on pipe

To intake box in Hog Hollow

Intake box NW end at pipe outlet

west side Road.

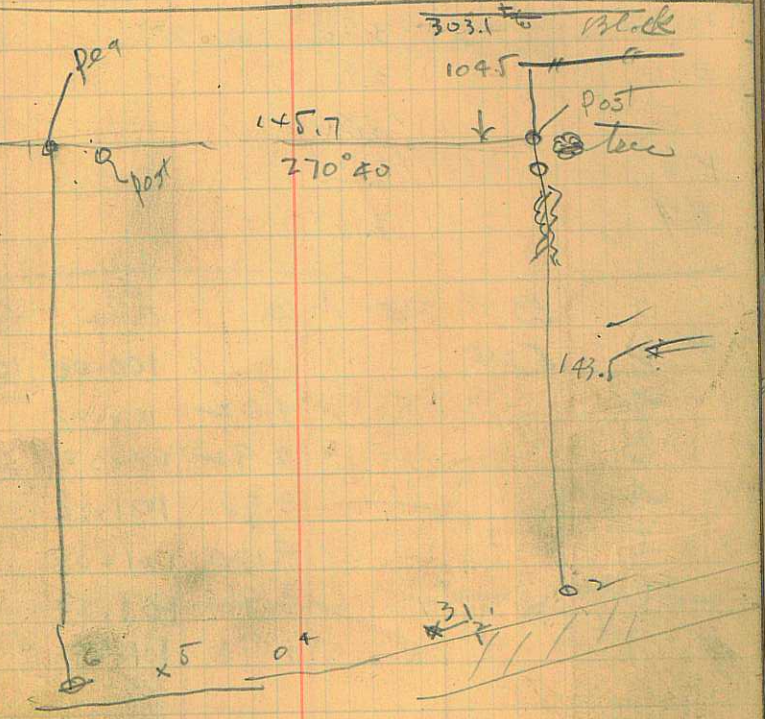
5/8/15

Dave Thomas
for Fort Bollinger
March 27-1935

Sept 18 - 1935
Survey for H.S. Ammons
in Block 5 Plat "C" City

6	0° 21'	252.1
5	354° 42'	231.7
4	346° 37'	213.0
3	331° 05'	198.25
2	315° 24'	203.87
1		
	235° 10'	to ⊡ C spire

Smith beg 18 rds W & 12 rds S of NE cor Block 5
513 rds 3½ links NE'ly along Bank 4½ rods N 11 rds 8 links 6 ft 4½ rds due E of beg W 4½ rds to beg

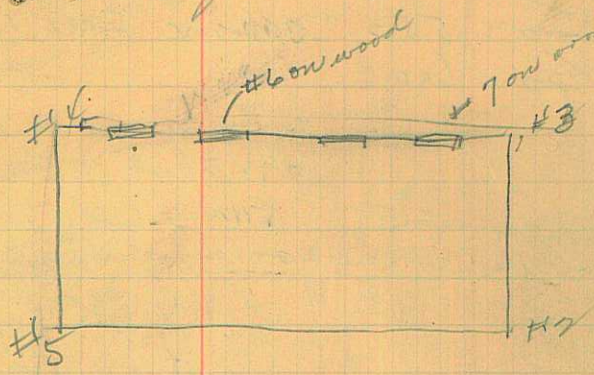


along west fence

Ambassadore Ballroom
levels on outside floor

	Elev	F.S.	HI	
#1	100.00	5.24	105.24	
#2		4.02		4.02
#3		3.92		
#4		3.98		
#5		4.20		
#6		3.965		
#7		3.965		

3' N of Apton face curb



	BS	FS	HI	Elev	HI
#1	5.24			100.00	105.24
2			4.02	101.22	
3			3.92	101.32	
4			3.98	101.26	
5			4.20	101.04	
6			3.96	101.28	
7			3.96	101.28	

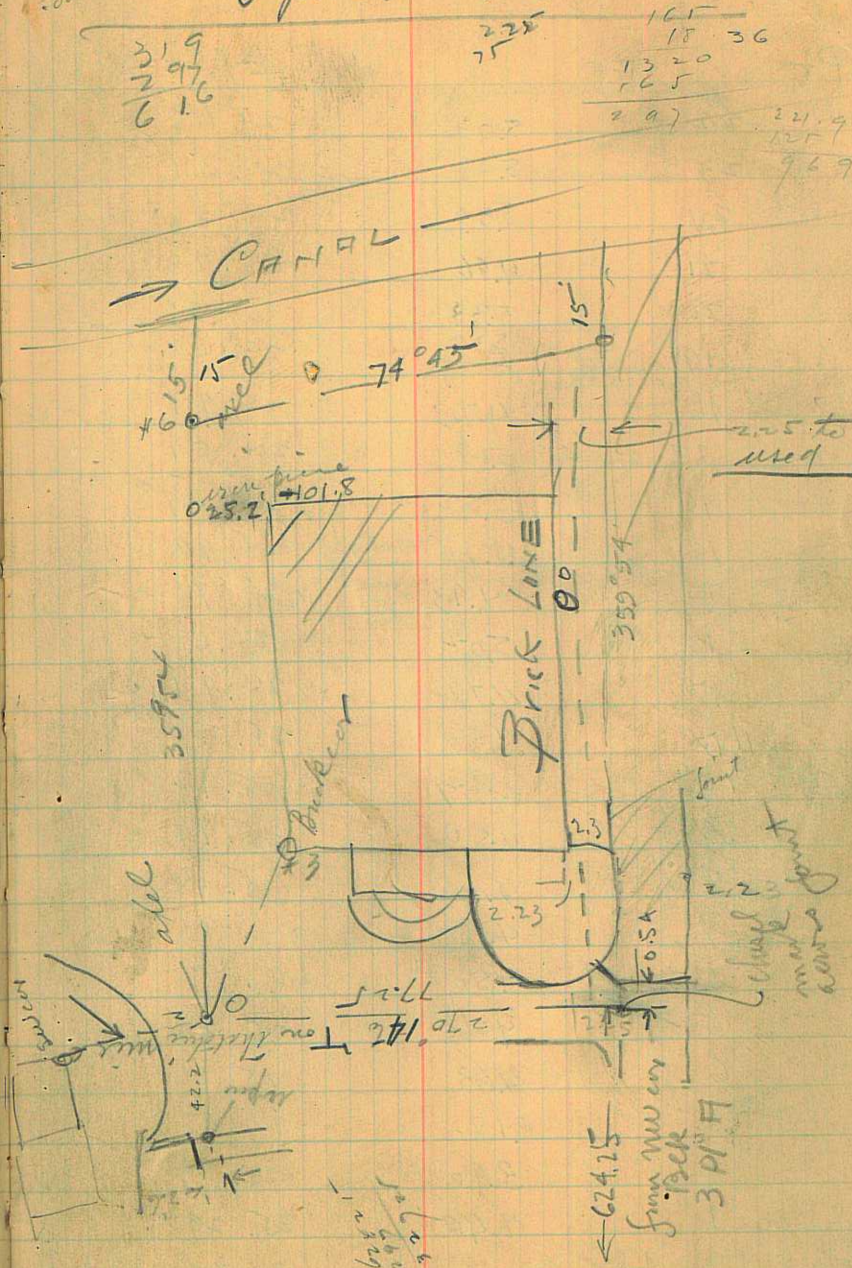
wood floor in Dance Hall
" " " " "

Survey for
Laurel Wheat
Beg at NW Block 3 Pl A
Logan City
So 297 no center found
So 553 approx SW cor Blk 3
So 600

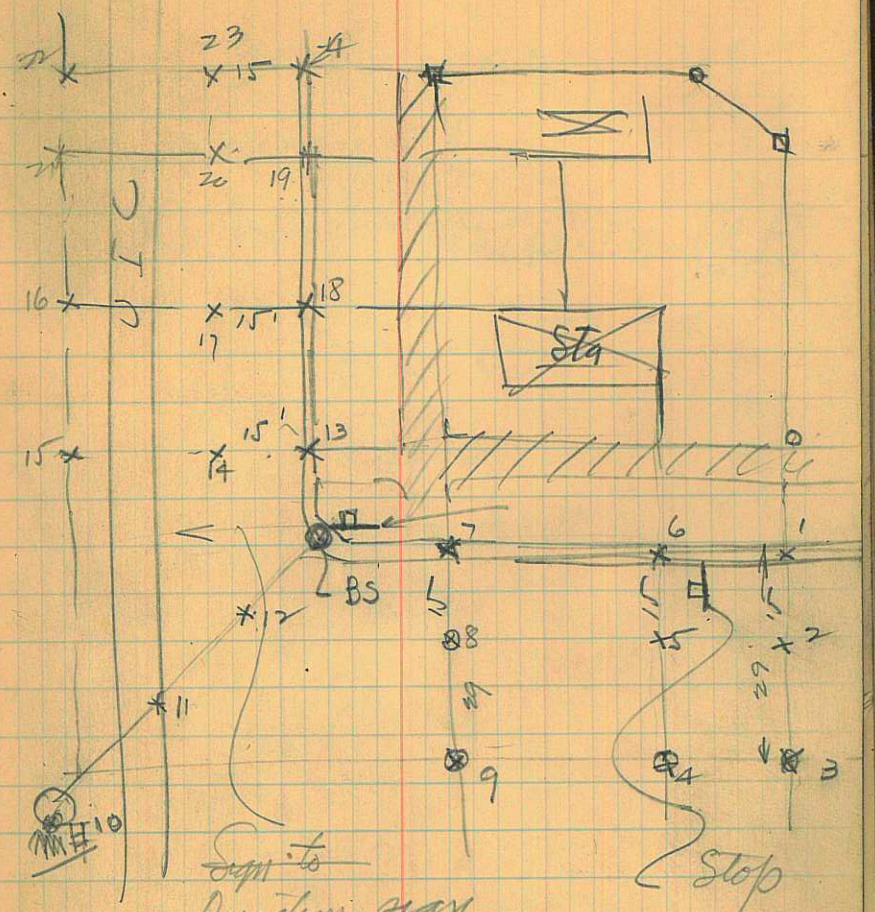
39-2½
25.7½ to brick cor Electrolux of house
212 15 to NW cor. Capitol Thea. just over roof
85 ft on pole 90 14 Nov 30-1940 Reliance
{ near pole 4 3' popular
hub on Mill Sur. nail in
244°53' 62.0
74°45' 80.1 E edge Pav
6 (11-29-40)
6 359°54' 221.9
5 179°54' 42.2
4 269°52' 39.12
3 75°31 25.65
2
1

359°54 to N end Pac. Fruit Bldg

Sept 28 - 1935



Pt	FS	IM	BS	Elev	HI
22		5.03		24.66	
23		5.28		24.41	
24		5.39		24.30	
21		4.96		24.73	
20		~~5.33~~ 5.38		24.36	
19		~~5.38~~ 5.34		24.41	
16		4.78		24.91	
17		5.18		24.51	
18		5.20		24.49	
15		4.70		24.99	
14		4.93		24.76	
13		5.02		24.67	
12		4.78		24.91	
11		4.55		25.14	
10		4.57		25.12	
9		4.50		25.19	
8		4.69		25.00	
7		4.78		24.91	
4		3.50		26.19	
5		4.26		25.43	
6		4.63		25.06	
3		3.18		26.51	
2		3.90		25.79	
1		4.40		25.29	
BM	4.85			~~24.84~~	29.69



~~Sign to~~
Direction sign
To Tremont
Corners

132 / 8 ns / 12 3.75

16.5 / 7 / 115.5 / 8.21 / 123 75

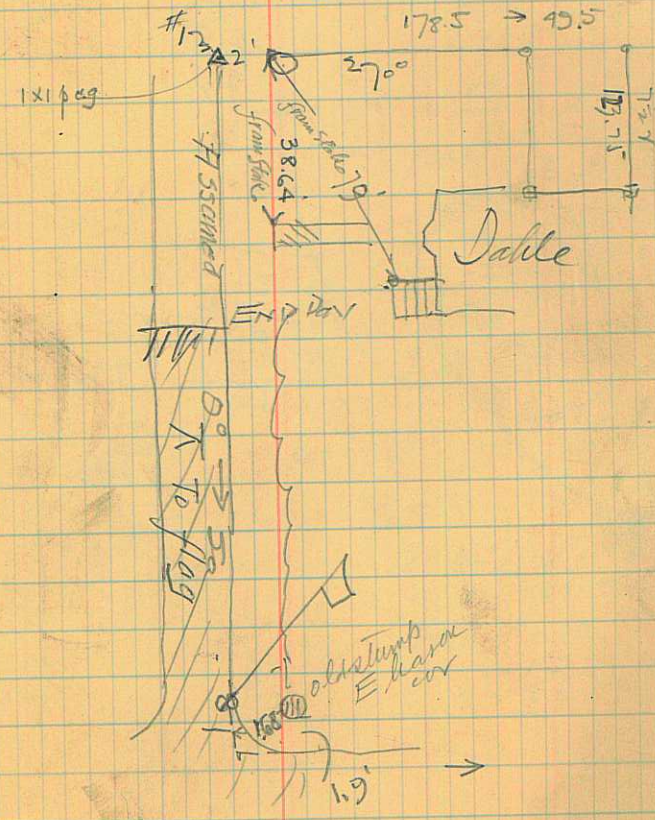
16.5 / 3 / 5

228 / 49.5 / 178.5 / 2280.

3-20-1937

Survey for

Atkinson Bike 19-Pl A cut 11 4



110°14' to N.E cor. brick cor 9th Varden.

17

Sail

#25

27×6
13×5

632
77
709

sq ft

162
65
193
18
170
79
617.0
16
632.00
477
155

477.80

632
70
62

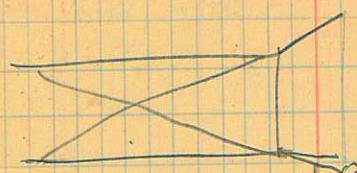
77×6
462
77×4
308
770

160

106

130

109
56
165



= 7'

162

mean = 6

27' = 5
13 mean 5

40' = 5

103
61
109
h = 3.4

h = 3.7

h = 3½

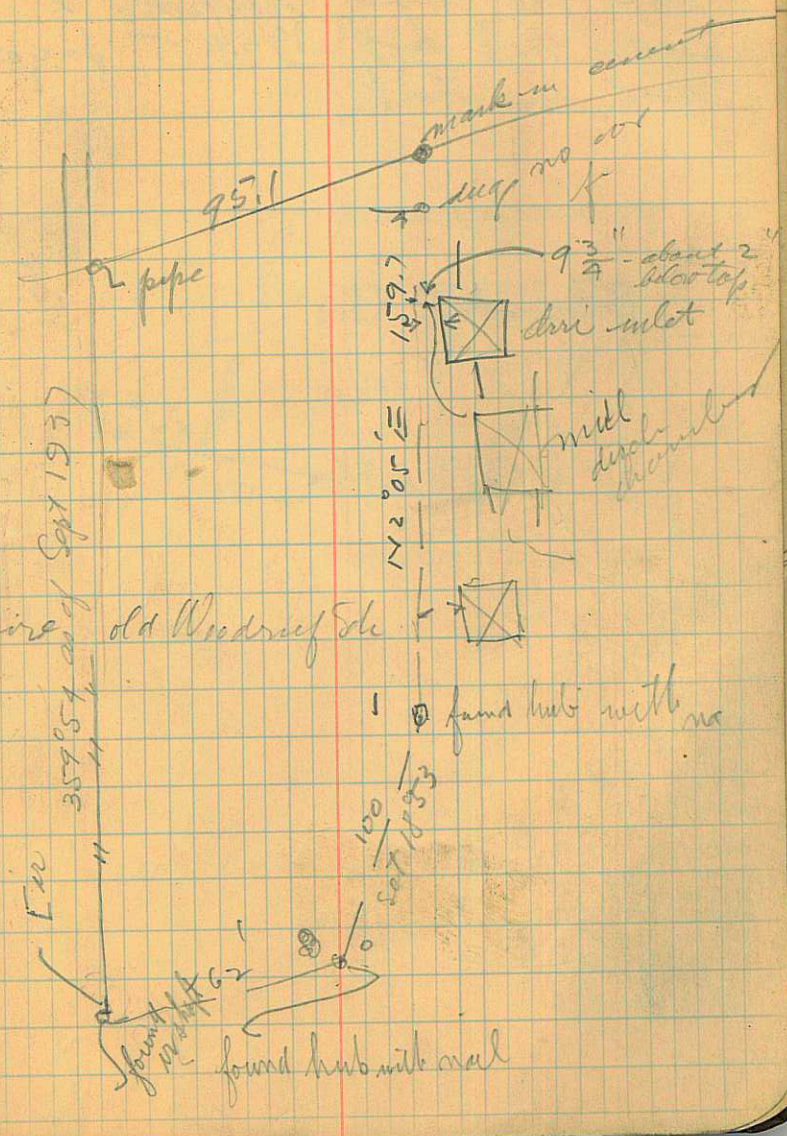
=56
109
165

45
43
135
180
163

6
5
37
185
45
150
225
675

5.37
185
43

La Jac Survey
Nov 1940.



N 18°05 159.7

165°10'

1 100

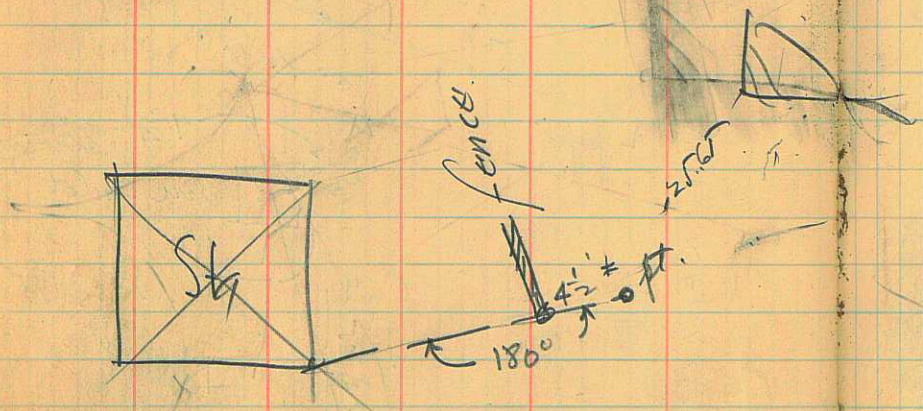
100

109

2-6-43

Study of Sur. for Gas Line

cor. relative thereto x sec note book 1934-5 page 37-42 and this book



40
30
50
0
150

1946
1958

ED TABLES
AND
MATION

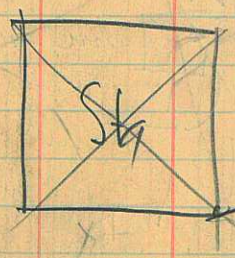
				56
				55
				54
				53
				52
				51
			342	50
		39	642	49
		670	952	48
		799	9271	47
		926	601	46
	84	7050	942	45
	235	173	1.0295	44
	20'	10'	10'	deg.
	cot	cos	cot	

(21)
(24) a =
(29) a =
(32) I = R
(34) L = IR
(36) Area Seg. =

109

2-6

Study of
Gas Law
cor. relative
sec 106 book
and this book



IMPROVED TABLES

AND

INFORMATION

				56
				55
			1	54
			490	53
			766	52
			8050	51
			342	50
		39	642	49
		670	952	48
		799	9271	47
		926	601	46
	7050	173	942	45
	235	10′	1.0295	44
	20	cos	10′	deg.
	cot		cot	

(21) a =

(24) a =

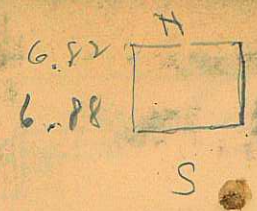
(26) a =

(29) a =

(32) I = R

(34) L = IR

(36) Area Seg. =



DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½

For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	25.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9 + (20—16) ÷ 2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.