

NAME NATIONAL BIE EXT

Class \_\_\_\_\_ Course \_\_\_\_\_ Party Beer #1

Assignment Sta. 0100 to 328+2-68

121 1898

# FIELD NOTES

No. 403P

ESPECIALLY ADAPTED  
TO THE USE OF  
ENGINEERING STUDENTS

EUGENE MUEZGEN Co.

MANUFACTURERS

DRAWING MATERIALS

MATHEMATICAL AND SURVEYING INSTRUMENTS

MEASURING TAPES

CHICAGO SAN FRANCISCO NEW YORK  
NEW ORLEANS PITTSBURGH

NAT'L AVE. EXT.

Book #1

MICROFILMED

DEC 30 1964

RETURN TO  
Watson, Valle & Gough, Inc.  
508 Spreckels Bldg.  
San Diego, Calif.

— INDEX —

	Page
Alignment 0+00 to 328+29.88	1 - 28
Property Tie Sta. 147+89	30
" 93+06	31

Sta. Dist. Angle Az. Def. Ties-

12+00  
P.O.T.



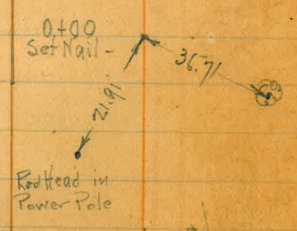
10+22.65  
P.O.T.

1988.05



5+00  
P.O.T.

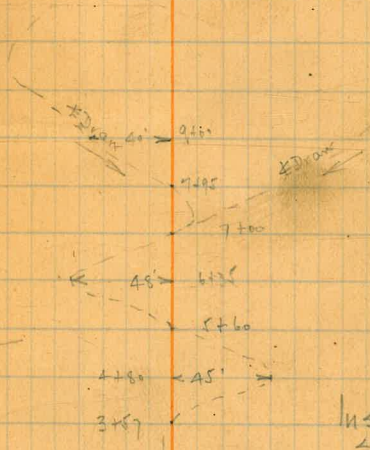
0+00



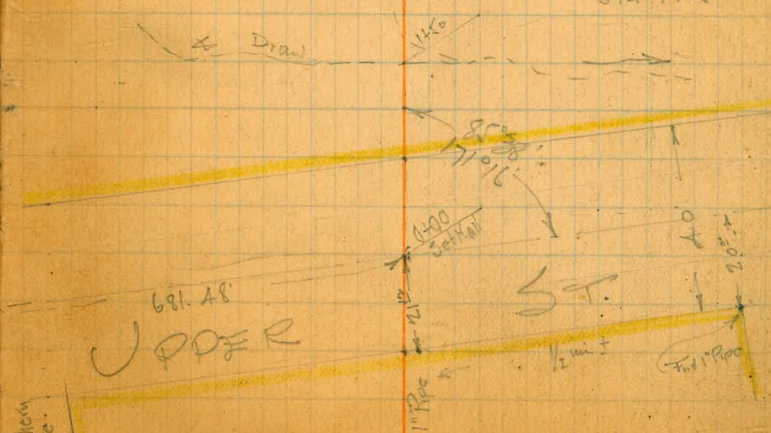
Southern  
Ave.

Topog.

Reeds & Party  
June 1926



Install 3x6 Box  
Sta 11+50



691.45  
UPPER

5+00  
Limit

10+00  
P.O.T.

Sta      Dist      Angle      Def      Entries

31426.45  
P.O.T.

31426.45  
2x2 tub

2807.01

22422.09  
P.T.

19488.00  
P.I.

161° 58'  
323° 56'

18° 02' Lt.

17449.98  
P.O.

Abandoned

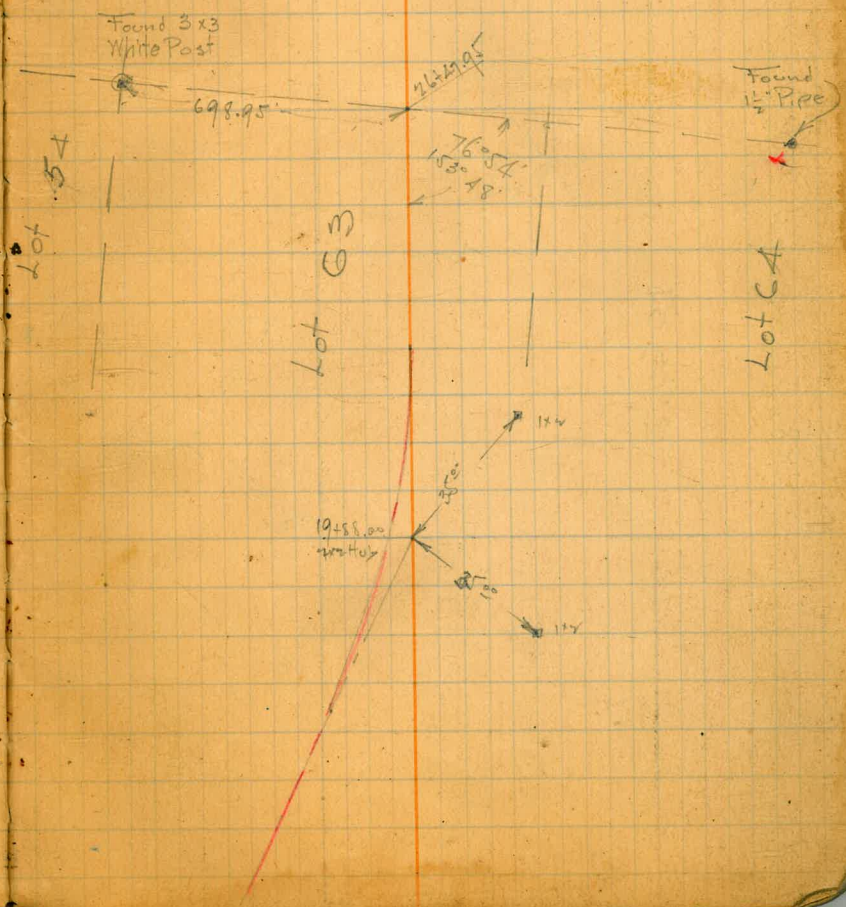
Deflections -

- B = 0° 57'
- +56 = 1° 54 1/2'
- 19 = 2° 52'
- +56 = 3° 49'
- 20 = 4° 46 1/2'
- +56 = 5° 44'
- 21 = 6° 41'
- +56 = 7° 38 1/2'
- 22 = 8° 35 1/2'
- +22.09 = 9° 01'

A = 18° 02'  
R = 1500'  
T = 238.02  
L = 472.11

Topog. 1

LAS ALTURA



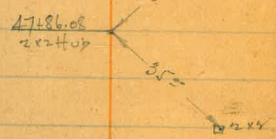
Sta. Dist. Angle Az. Def. # Ties

49+97.57  
P.T.

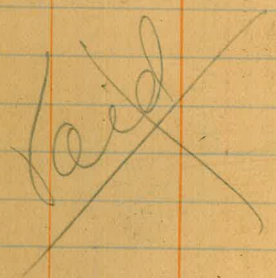


47+86.08  
P.I.

163°44' 16'16" Lt.  
327°28'



45+16.71  
P.C.



L = 16°16'  
R = 1500'  
T = 214.37'  
L = 425.86'

Deflections

46	=	0° 32 1/2
+50	=	1° 30'
47	=	2° 27'
+50	=	3° 24 1/2
48	=	4° 21 1/2
+50	=	5° 19'
49	=	6° 16'
+50	=	7° 13 1/2
+97.57	=	8° 08'



Cont'd in T.B # 169, Pg. 15

42+00  
P.O.T.

110+08.2



LAS ALTURAS

Sta	Dist	Angle Az.	Def.	Ties
-----	------	--------------	------	------

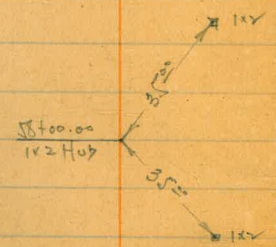
61+06.36  
P.T.

*Void*

58+00.00  
P.I.

162°19'  
324°37'

17°41' Lt.



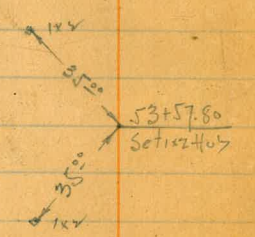
54+88.90  
P.C.

A = 17°41'  
 R = 2000'  
 T = 311.10'  
 L = 617.46'

*Void*

53+57.80  
P.O.T.

1016.80



Deflections:

- 55 = 0°09'
- 56 = 0°52'
- 56 = 1°35'
- 57 = 2°18'
- 57 = 3°01'
- 58 = 3°44'
- 58 = 4°27'
- 59 = 5°10'
- 59 = 5°53'
- 60 = 6°36'
- 60 = 7°19'
- 61 = 8°02'
- 61 = 8°45'
- +06.36 = 8°50'

LA'S ALTURA'S

*Void*

City  
94°14'

Water Main

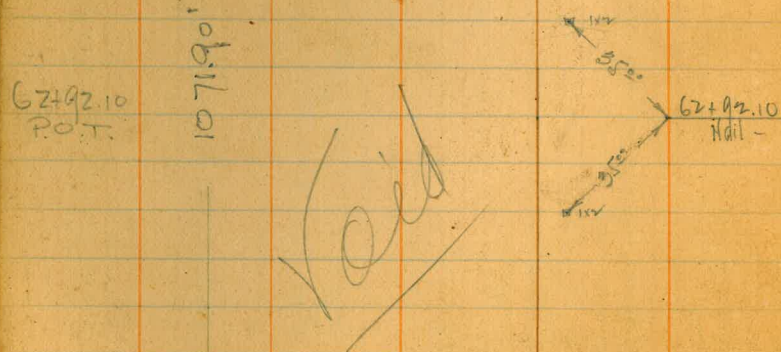
47+86.00  
P.I.

Sta.	Dist.	Angle		± Ties
		Az.	Def.	
69+73.54 P.T.				
68+67.16 P.I.		137°16'	42°44' Lt.	68+67.16 Set 2x2 Hub
68+13.30 POST 2x2 Hub		274°32'		
67+49.79 P.C.				

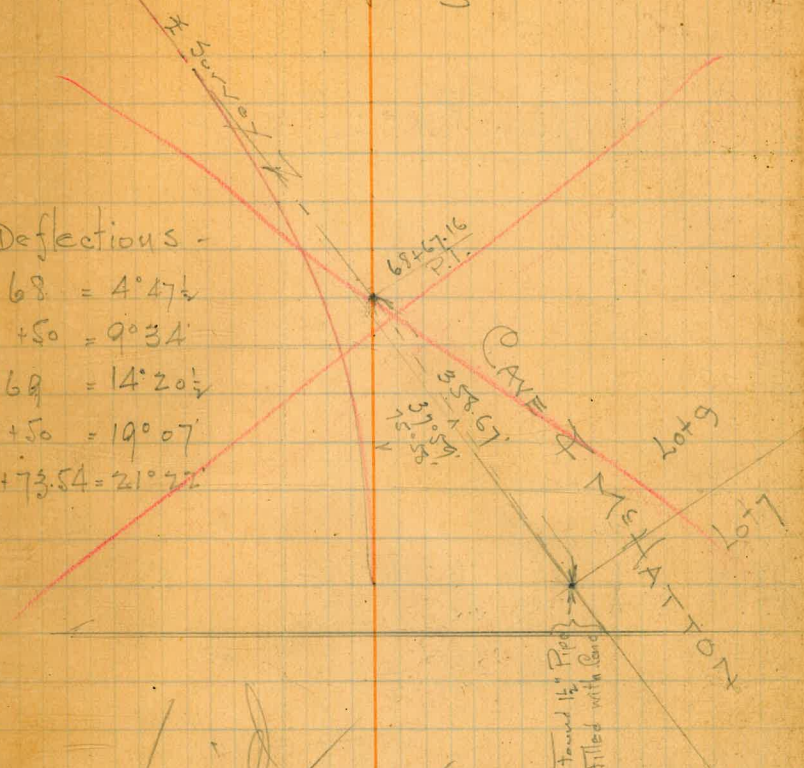
$L = 42°44'$   
 $R = 300'$   
 $T = 117.37'$   
 $L = 223.75'$

Deflections -  
 68 = 4°47'  
 +50 = 9°34'  
 69 = 14°20'  
 +50 = 19°07'  
 +73.54 = 21°22'

Contd in Bk # 2, Pg. 11



Topog.



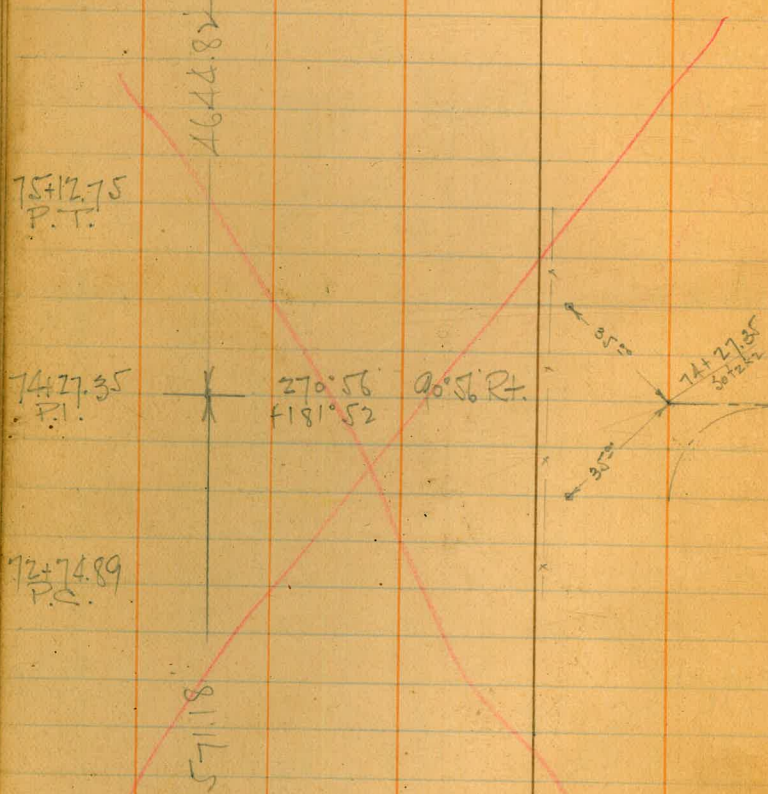
Void  
 LAS ALTURAS

Install 18" Pipe  
 Sta 61+25

61+25  
 Draw

Sta. Dist. Angle Az. Def. ± Ties -

Cont'd from Bk #2, Pg. 12



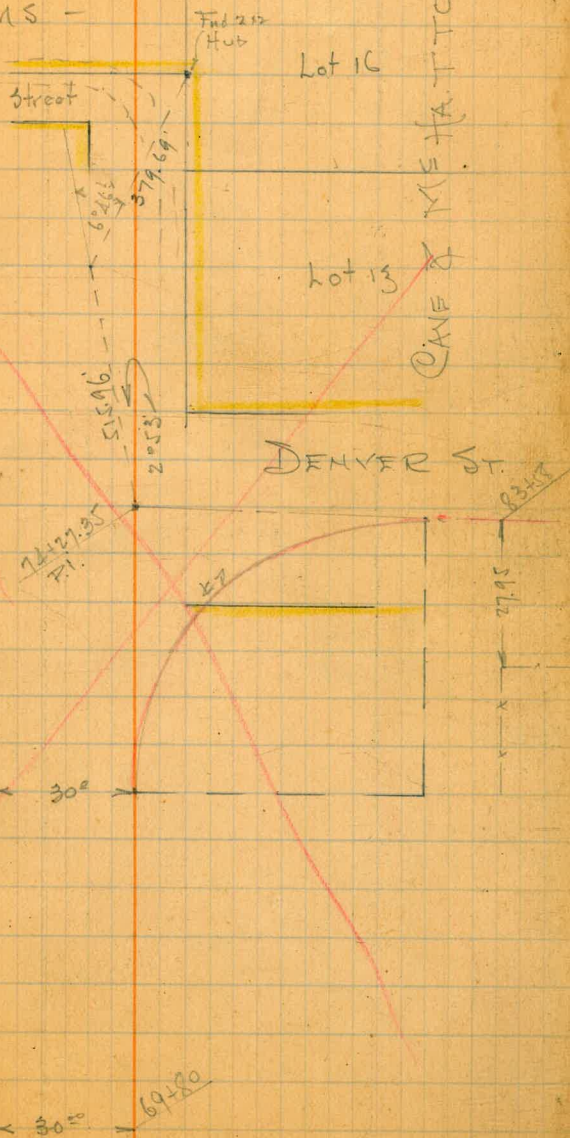
Topog.

6

Deflections -

- ~~73 = 4° 47'~~
- ~~+25 = 9° 34'~~
- ~~+50 = 14° 20'~~
- ~~+75 = 19° 07'~~
- ~~74 = 25° 53'~~
- ~~+25 = 28° 40'~~
- ~~+50 = 33° 26'~~
- ~~+75 = 38° 13'~~
- ~~75 = 42° 59'~~
- ~~+12.95 = 45° 28'~~

$\Delta = 90^\circ 57'$   
 $R = 150'$   
 $T = 152.46'$   
 $L = 238.06'$







Sta.	Dist.	Angle	Ties
		Az Def.	

126+73.00  
P.T.

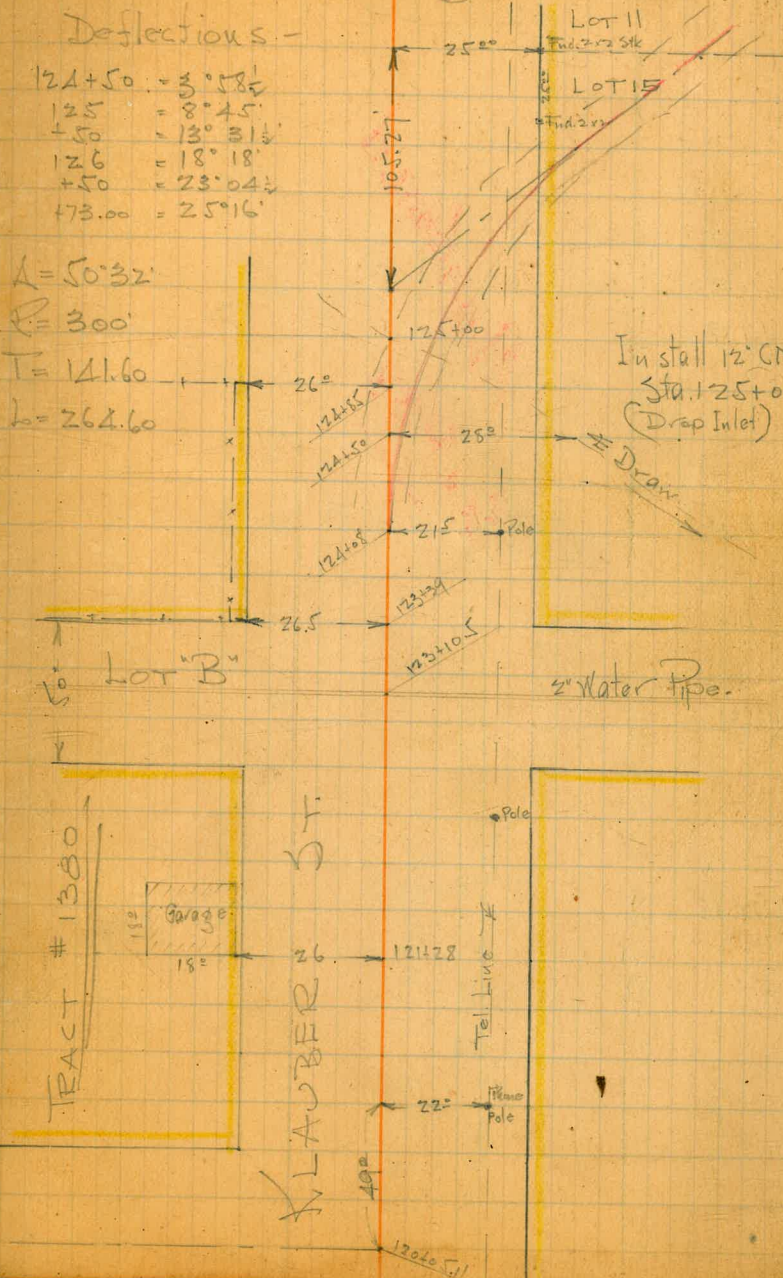
125+50.00  
P.I.

124+08.40  
P.C.

188.33'

230°32'  
101°00'

Abandoned  
See P 33

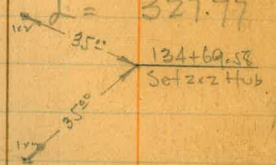


Sta. Dist. Angle Az Def \*Ties

134+69.58  
P.T.

912.75

A = 62°36'  
R = 300'  
T = 182.40  
L = 327.77



133+24.21  
P.I.

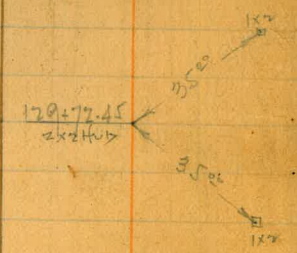
242°36' 62°36' R  
+125°12'



132+14.00  
P.O.S.T.

132+14.00  
P.O.S.T. (243)

131+41.81  
P.C.



129+72.45  
P.O.T.

129+72.45  
2x2 Hub

See Pg 32 for  
line change

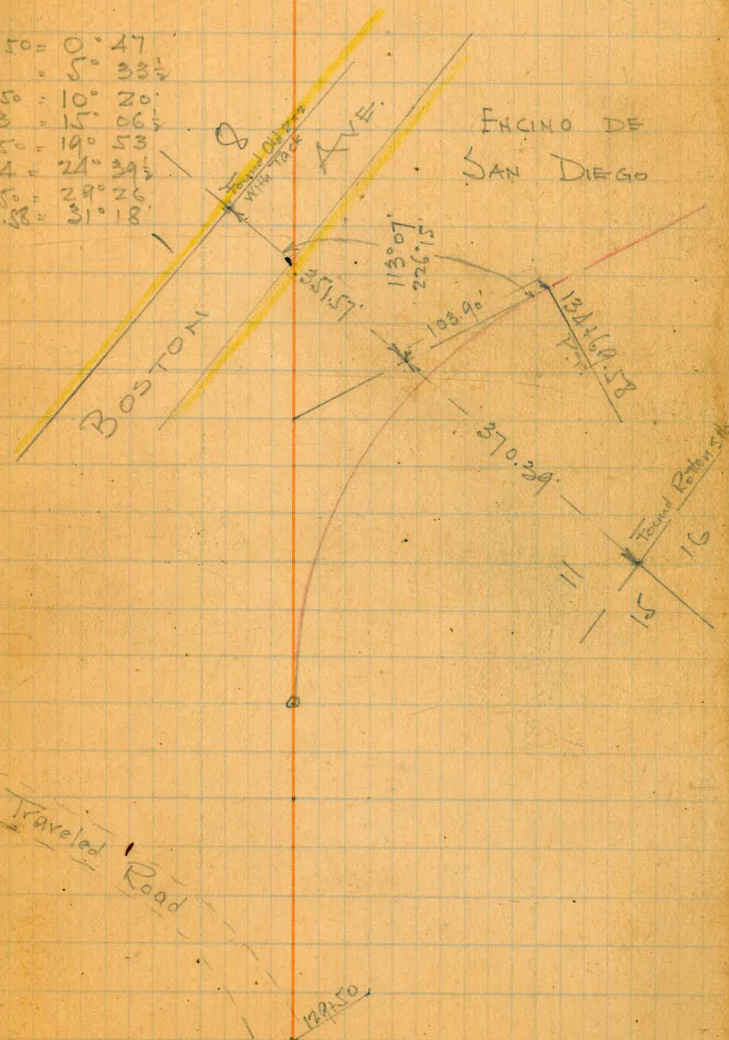
792.84

Topog.

9

Deflections:

131+50 = 0° 47'  
132 = 5° 33 1/2'  
+50 = 10° 20'  
133 = 15° 06 1/2'  
+50 = 19° 53'  
134 = 24° 39 1/2'  
+50 = 29° 26'  
+69.58 = 31° 18'



Sto Dist. Angle Az. Defl. \$Ties.

143+13.52  
143+13.52  
P.T.

Equation -

142+29.93  
P.I.

129°37'  
259°14'

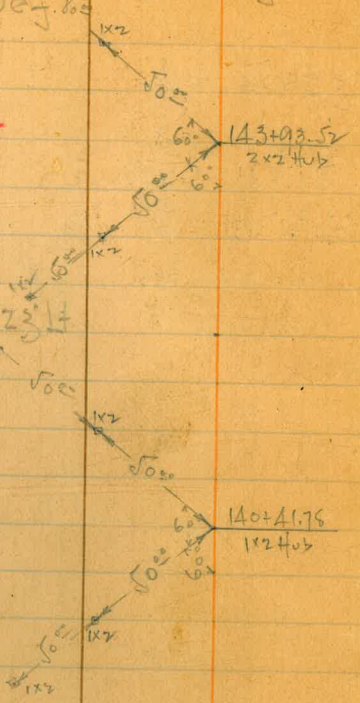
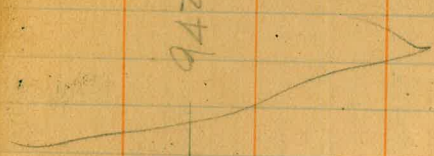
50°23'

140+41.78  
P.C.

143+13.52  
2x2 Hub

140+41.78  
1x2 Hub

942.75



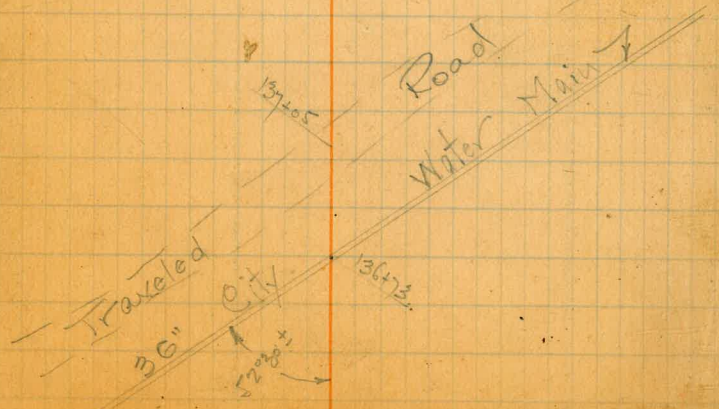
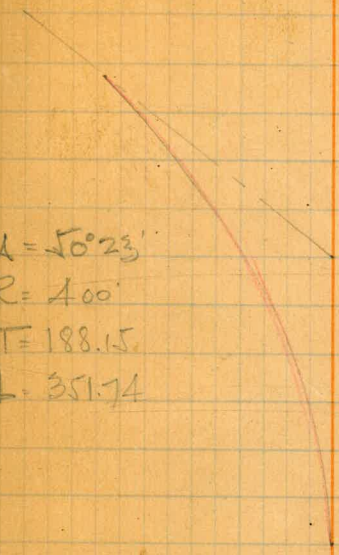
Topog.

10

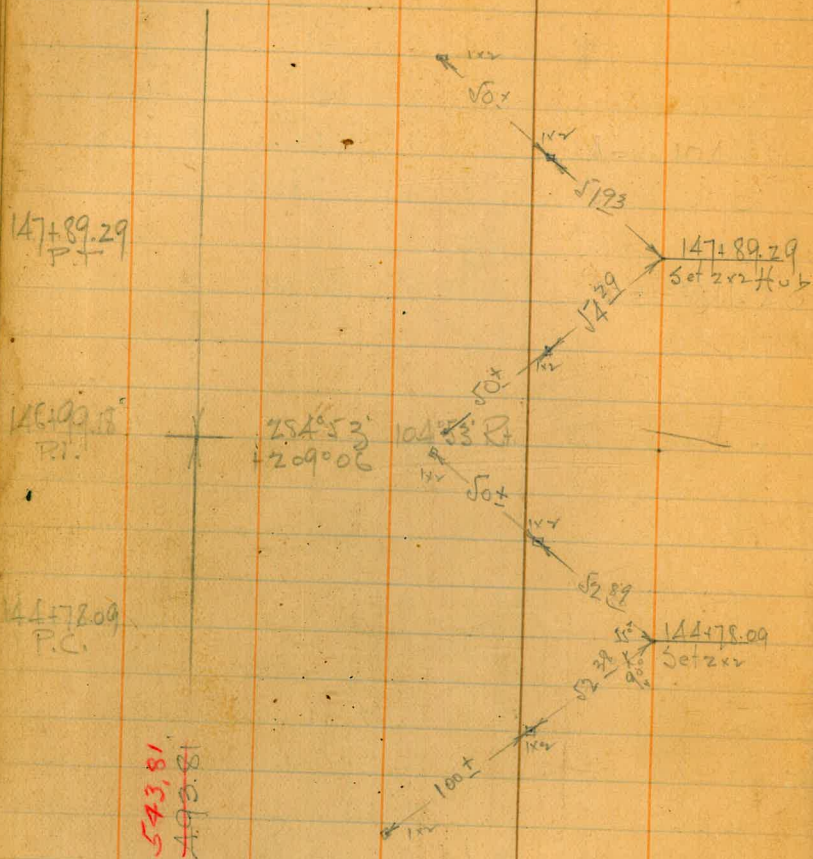
Deflections -

140+50	=	0° 35'
141	=	4° 10'
+50	=	7° 45'
142	=	11° 20'
+50	=	14° 55'
143	=	18° 29'
+50	=	22° 04'
143+52	=	25° 11'

$A = 50°23'$   
 $R = 400'$   
 $T = 188.15'$   
 $L = 351.74'$



Sta. Dist. Angle Az. Def. \*Ties-

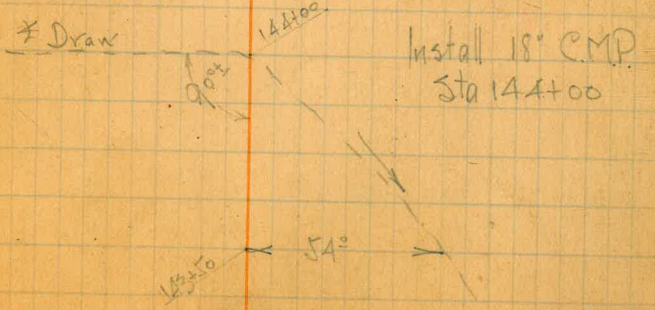


Topog-

Deflections -

145	=	3° 41 1/2
+25	=	7° 54
+50	=	12° 07
+75	=	16° 20
146	=	20° 32 1/2
+25	=	24° 45 1/2
+50	=	28° 58
+75	=	33° 11' POC
147	=	37° 23 1/2
+25	=	41° 36 1/2
+50	=	45° 49
+75	=	50° 02
+89.29	=	52° 26 1/2

$\Delta = 104^\circ 53'$   
 $R = 170'$   
 $T = 221.09'$   
 $L = 311.20'$



Sta. Dist. Angle Az. Def. Ties

$\Delta = 89^{\circ}51'$   
 $R = 150'$   
 $T = 149.61'$   
 $L = 235.73'$

52+39.67  
P.T.

54+52.07  
P.I.

50+04.12  
P.C.

90°09'  
180°19'

89°51' Lt.

585.85

Set 2nd Hgt



Set 2nd Hgt

Topog

19

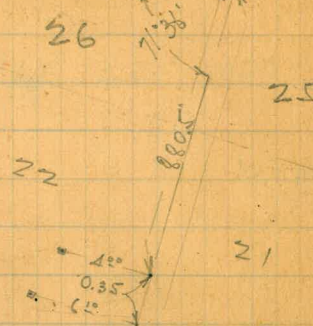
Deflections

150+25 = 8°55'  
 +50 = 8°42'  
 157 +75 = 13°28'  
 18°15'  
 +25 = 23°01'  
 +50 = 27°48'  
 152 +75 = 32°34' ①  
 +25 = 42°07'  
 +39.67 = 44°55'

National Ranch Line

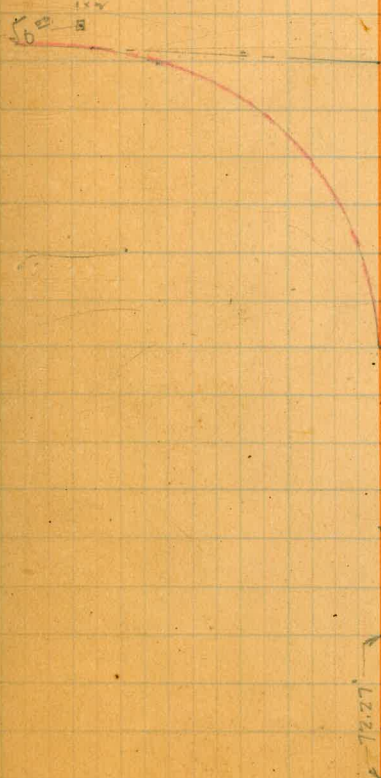
508.1

Find & Connect



See Pg. 30  
for sketch

56



1680.7

1105.1  
130.1

127+19.29 P.T.

722.7

Sta. Dist. Angle Az. Def. ± Ties

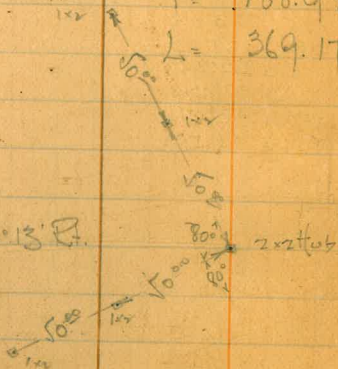
A = 30° 13'  
 R = 700'  
 T = 188.98  
 L = 369.17

159+77.84  
 P.I.

157+97.65  
 P.I.

156+08.67  
 P.C.

210° 13' 30° 13' R.  
 + 60° 26'



1146.57

1147.57

102-123  
 204-26

707.59  
 907.59

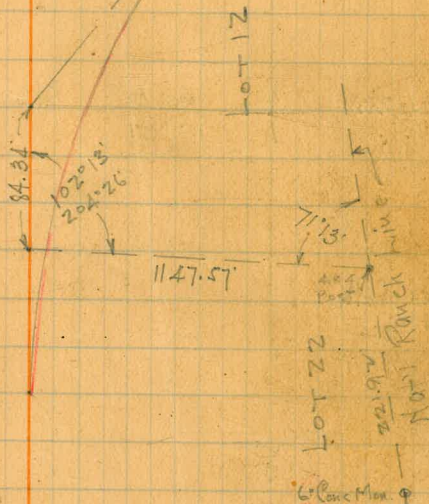
Topog-

13

Deflections

156+50 = 1° 41'  
 157<sup>+50</sup> = 3° 44'  
 158<sup>+50</sup> = 5° 47'  
 158<sup>+50</sup> = 7° 50'  
 159<sup>+50</sup> = 9° 52'  
 159<sup>+50</sup> = 11° 55'  
 159<sup>+50</sup> = 13° 58'  
 159<sup>+50</sup> = 15° 06'

+12° 05' 4' 14' LC 10394



6 Ranch Men

Sta	Dist	Angle Az.	Def.	Ties-
-----	------	--------------	------	-------

Topog-

$$L = 86.17'$$

$$R = 200'$$

$$T = 187.38'$$

$$L = 301.19'$$

Deflections -

$$160 + 25 = 0.575$$

$$+ 50 = 2.31$$

$$161 + 75 = 8.06$$

$$+ 25 = 15.16$$

$$+ 50 = 18.50$$

$$162 + 75 = 22.25$$

$$+ 25 = 26.00$$

$$+ 50 = 29.35$$

$$+ 75 = 33.10$$

$$163 + 75 = 36.45$$

$$+ 19.63 = 43.08$$

163+19.63  
P.T.

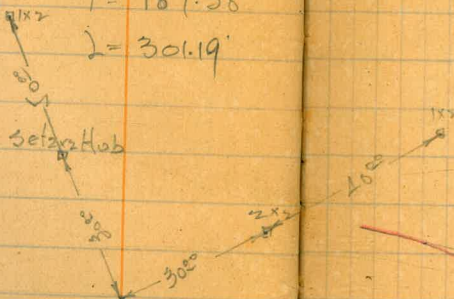
162+05.87  
P.I.

160+18.44  
P.C.

116.96

90° 43'  
187° 27'

86.17 Lt





Sta. Dist. Angle  
Az. Def.

Ties

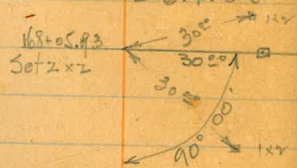
Topog-

$\Delta = 89^{\circ}24'$   
 $R = 150'$   
 $T = 148.44'$   
 $L = 234.05'$

Deflections-

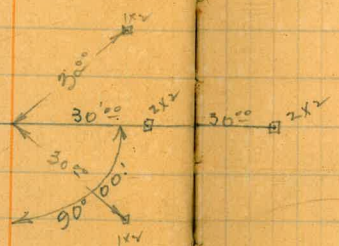
165+75 =  $0^{\circ}30'$   
 166 =  $5^{\circ}22'$   
 +25 =  $10^{\circ}08\frac{1}{2}'$   
 +50 =  $14^{\circ}55'0$   
 +75 =  $19^{\circ}41\frac{1}{2}'$   
 167 =  $24^{\circ}28'$   
 +25 =  $29^{\circ}14\frac{1}{2}'0$   
 +50 =  $34^{\circ}01'$   
 +75 =  $38^{\circ}47\frac{1}{2}'$   
 168 =  $43^{\circ}34'$   
 +55.93 =  $44^{\circ}42'$

168+55.93  
P.T.



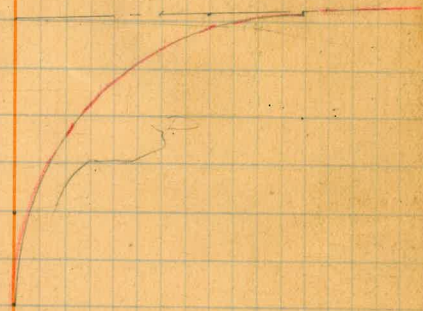
167+20.32  
P.I.

$269^{\circ}24'$   $89^{\circ}24' R$   
 $+178^{\circ}48'$



165+71.88  
P.C.

588.07



Sta. Dist. Angle  
Az. Def

± Ties-

Topog-

16

171+53.30 POT  
171+53.05 PT = EQUATION  
CFW  
171+53.30  
P.T. 281.44  
377.39

L = 38°06'  
P = 300  
T = 103.59  
L = 199.49

RT. 212 30° 212  
Setz 212 30° 212

170+57.15  
P.T. 141°54' 38°06' Lt  
383°47' Setz 212 30° 212

169+53.56  
P.C.

399.66  
485.21

RC. 212 30° 212  
90°00' 30° 212

Deflections-

170 = 4°26'

+50 = 0°12'

171 = 13°59'

+50 = 18°45'

+53.05 = 19°03'

Install 12" CMP  
Sta 169+65

Sta. Dist Angle Az. Def

Topog-

17

$\Delta = 62^{\circ}10'$

$R = 300$

$T = 180.85'$

$L = 375.50'$

Deflections -

176 =  $0^{\circ}28\frac{1}{2}'$

+50 =  $5^{\circ}15'$

177 =  $10^{\circ}01\frac{1}{2}'$

+50 =  $14^{\circ}48'$

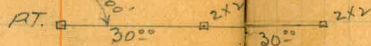
178 =  $19^{\circ}34\frac{1}{2}'$

+50 =  $24^{\circ}21'$

179 =  $29^{\circ}07\frac{1}{2}'$

+20.50 =  $31^{\circ}05'$

179+20.50  
P.T.



177+35  
P.I.

117.50  
235.10

62.10 Rt.



175+95.00  
P.C.

461.95



174+36.65  
P.T.

Deflections -

172+25 =  $1^{\circ}54'$

+50 =  $4^{\circ}45\frac{1}{2}'$

+75 =  $7^{\circ}37\frac{1}{2}'$

173 =  $10^{\circ}29\frac{1}{2}'$

+25 =  $13^{\circ}21\frac{1}{2}'$

+50 =  $16^{\circ}13'$

175 =  $19^{\circ}05'$

174 =  $21^{\circ}57'$

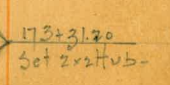
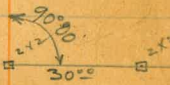
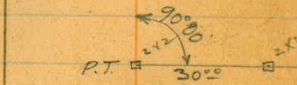
+25 =  $24^{\circ}49'$

136.65 =  $26^{\circ}09'$

173+31.20  
P.I.

232.18'  
104.35

52.18 Rt.



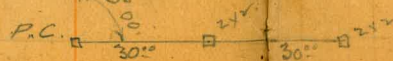
$\Delta = 52^{\circ}18'$

$R = 250$

$T = 122.75'$

$L = 228.20'$

172+09.45  
P.C.



Install 12" CMP  
Sta 177+30

Sta Dist. Angle Az. Def. ± Ties

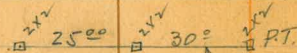
$$L = 22^{\circ} 16'$$

$$R = 1000'$$

$$T = 196.80'$$

$$L = 388.63'$$

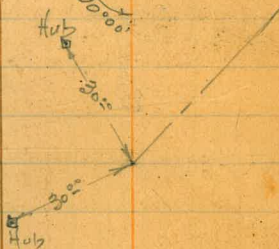
187+14.40  
P.T.



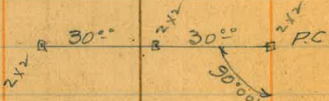
185+22.57  
P.I.

202.16  
+44.32

22.16 Rt.



183+25.77  
P.C.



782.92  
~~783.02~~

Topog-

18

Deflections -

183+50	=	0° 41'
184	=	2° 07'
+50	=	3° 33'
185	=	4° 59'
+50	=	6° 25'
186	=	7° 51'
+50	=	9° 17'
187	=	10° 43'
+14.40	=	11° 08'



Install 12" CMP  
Sta. 181+75.

sta. Dist. Angle Az. Def. Ties

A = 27° 18'  
 R = 1000'  
 T = 242.85'  
 L = 476.47'

Topog-

19

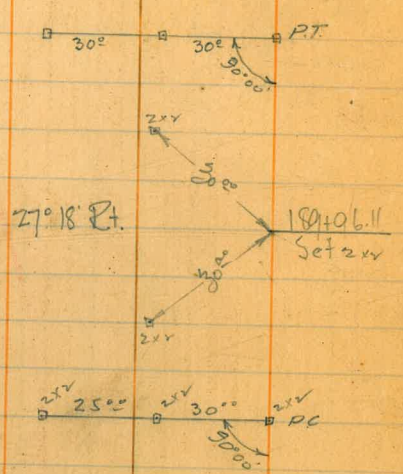
Deflections -  
 188 = 1° 20.5'  
 +50 = 2° 16.5'  
 189 = 4° 12'  
 +50 = 5° 38'  
 190 = 7° 04'  
 +50 = 8° 30'  
 191 = 9° 56'  
 +50 = 11° 22'  
 192 = 12° 48'  
 +29.73 = 13° 39'

192+29.73  
P.T.

189+96.11  
P.I.

187+53.26  
P.C.

478.51



Sta Dist. Angle Az. Def.

Abandoned

$L = 29^{\circ} 48'$   
 $R = 1000'$   
 $T = 266.08$   
 $L = 520.11$

205+03.46  
P.T.

207+49.43  
P.I.

199+83.35  
P.C.

= P.O.T. B Line

1262.55

$150^{\circ} 12'$   $29^{\circ} 48'$  Lt  
 $300^{\circ} 24'$



Topog-

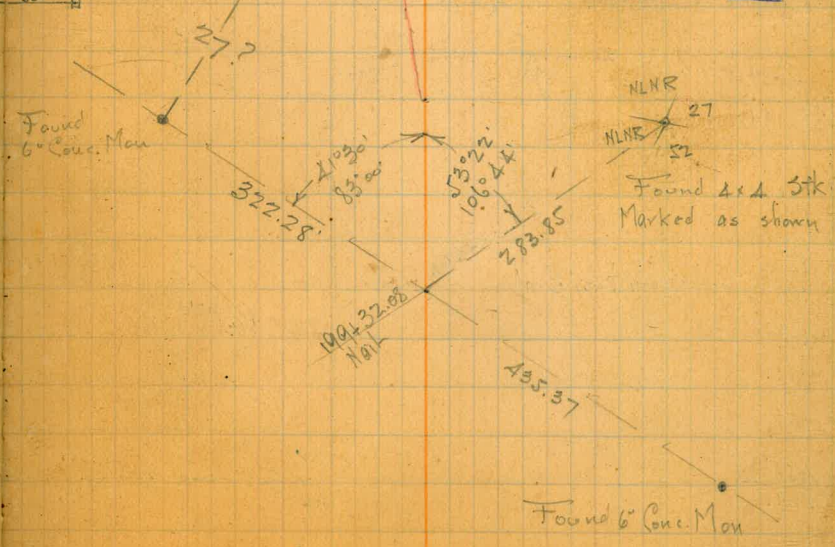
20

Deflections -

- 200 =  $0^{\circ} 28\frac{1}{2}$
- +50 =  $1^{\circ} 54\frac{1}{2}$
- 201 =  $3^{\circ} 20\frac{1}{2}$
- +50 =  $4^{\circ} 46\frac{1}{2}$
- 202 =  $6^{\circ} 12\frac{1}{2}$
- +50 =  $7^{\circ} 38\frac{1}{2}$
- 203 =  $9^{\circ} 04$
- +50 =  $10^{\circ} 30$
- 204 =  $11^{\circ} 56$
- +50 =  $13^{\circ} 22$
- 205 =  $14^{\circ} 49$
- +50 =  $14^{\circ} 54$

See Book #2  
for "B" Line -

B 116 P 1



Sta Dist.

Angle  
Az. Def.

Tics

Topog

21

220+64.38  
P.T.

218+59.50  
P.I.

216+23.83  
P.C.

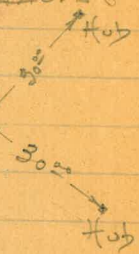
200+54.44  
P.O.T.



Abandoned

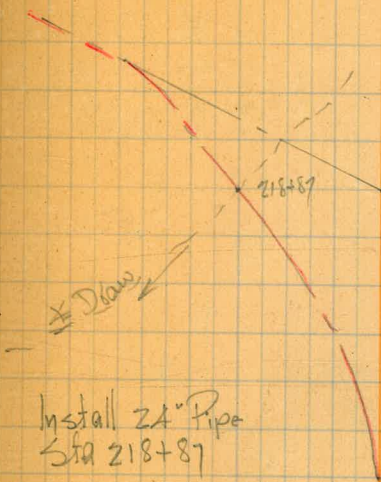
129°31' 50'29.4"  
100°45'

A = 50.29  
R = 500'  
T = 235.67  
L = 440.55



Deflections -

- 216+50 = 1°30'
- 217 +50 = 4°22'
- 218 +50 = 7°14'
- 219 +50 = 10°05 1/2'
- 220 +50 = 12°57 1/2'
- +50 = 15°49 1/2'
- +50 = 18°41'
- +50 = 21°33'
- +50 = 24°25'
- 220+64.38 = 25°14 1/2'



Install 24" Pipe  
Sta 218+87



Install 12" C.M.P.  
Sta 212+50

Sta Dist Angle  
Az. Def.

± Ties

Topog

22

Deflections -

226 = 2° 53'  
 +50 = 5° 45'  
 227 = 8° 37'  
 +50 = 11° 29'  
 228 = 14° 21'  
 +50 = 17° 12'  
 +84.85 = 19° 12'

$\Delta = 38^\circ 24'$

$R = 500'$

$T = 174.12$

$L = 335.10$

228+84.85  
P.T.

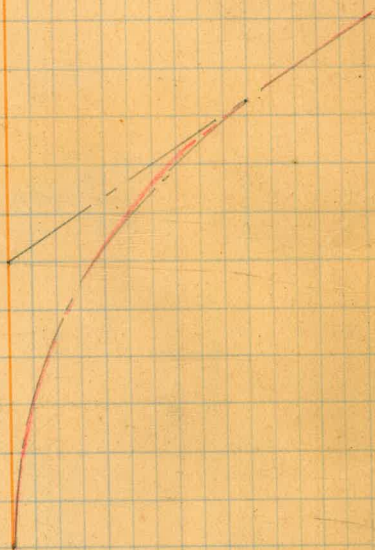
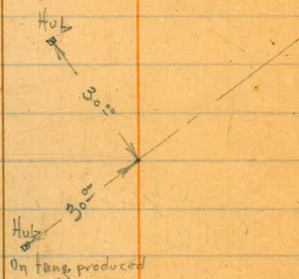
227+25.87  
P.I.

218° 24' 38° 24' B  
 +76° 48'

Abandoned

225+19.75  
P.C.

895.16



SDPG&FC  
300'

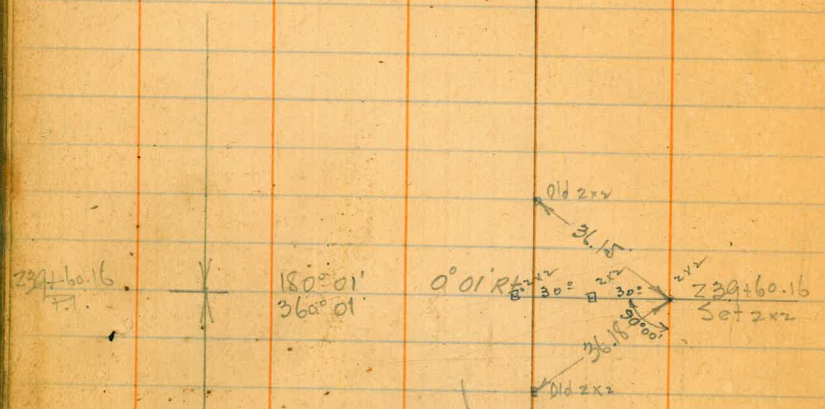
224+04  
Pole 82.25'

Power Line  
400'

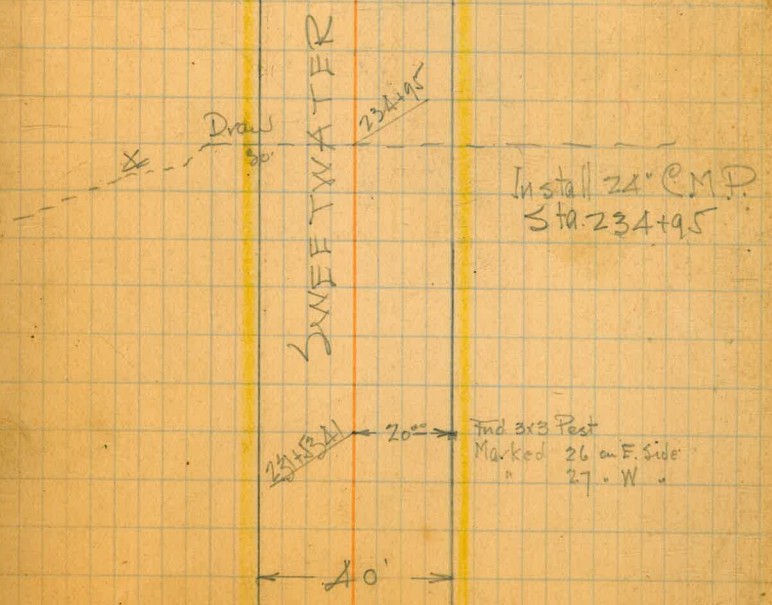
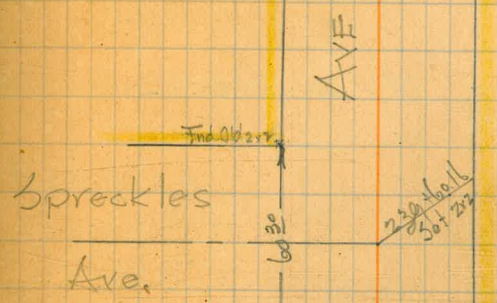


Sta. Dist. Angle Def. Ties -

Topo 23



249.43  
~~249.43~~  
 OK



Sta. Dist. Angle Az. Def. Ties

248+77.78  
P.T.



247+64.54  
P.I.

95° 40'  
191° 20'

84° 20' Lt.

Set 2 x 2 Hub

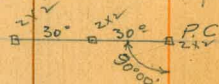
$A = 84^\circ 20'$

$R = 200$

$T = 181.14'$

$L = 294.38'$

245+83.40



~~Abandoned~~  
PK

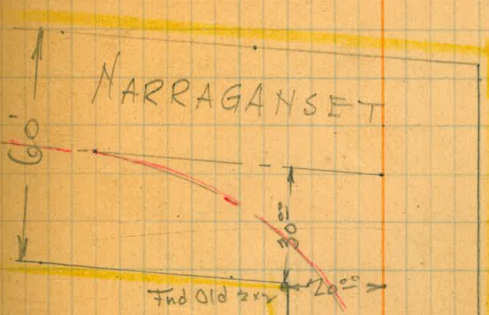
804.38

Topog-

24

Deflections -

246 = 2° 22'  
+25 = 5° 57'  
+50 = 9° 32'  
+75 = 13° 07'  
247 = 16° 42'  
+25 = 20° 17'  
+50 = 23° 52'  
+75 = 27° 26'  
248 = 31° 01'  
+25 = 34° 36'  
+50 = 38° 11'  
+75 = 41° 46'  
+77.78 = 42° 10'



BLK 'I'

AVE.

Draw

SWEETWATER

Install 18" Pipe  
Sta 243+36

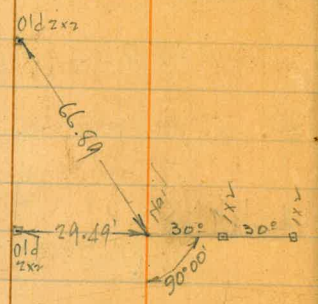
40'

Sta. Dist. Angle Az. Def. E. Ties

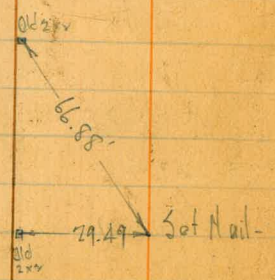
Topog - 25

266+6498  
POT

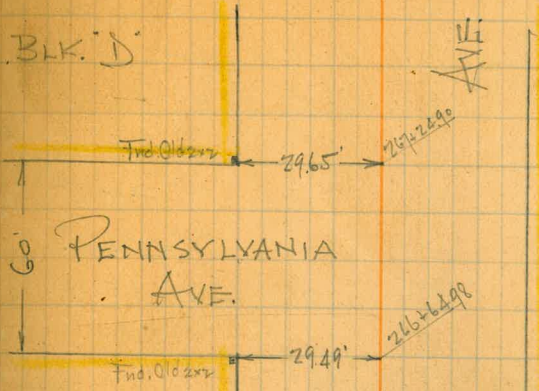
4020.44  
3829.30



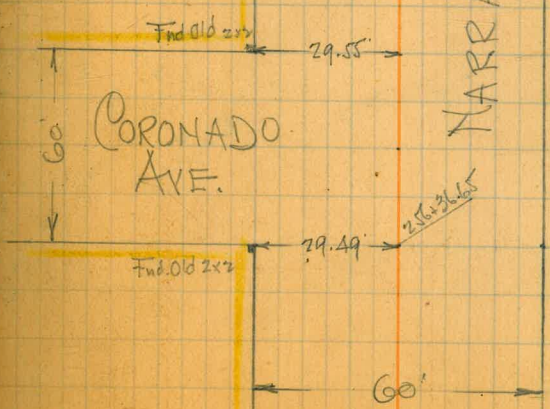
251+3165  
POT



BLK. D



BLK. J

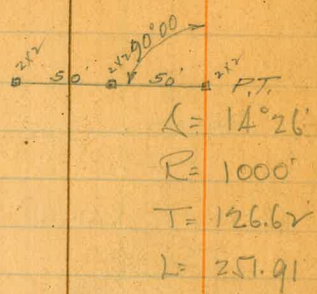


Sta Dist Angle Az Def.  $\pm$  Tios -

Topog: 26

Deflections -

286 =  $0^{\circ} 16'$   
 +50 =  $1^{\circ} 42'$   
 287 =  $3^{\circ} 08'$   
 +50 =  $4^{\circ} 34'$   
 288 =  $6^{\circ} 00'$   
 +42.37 =  $7^{\circ} 13'$



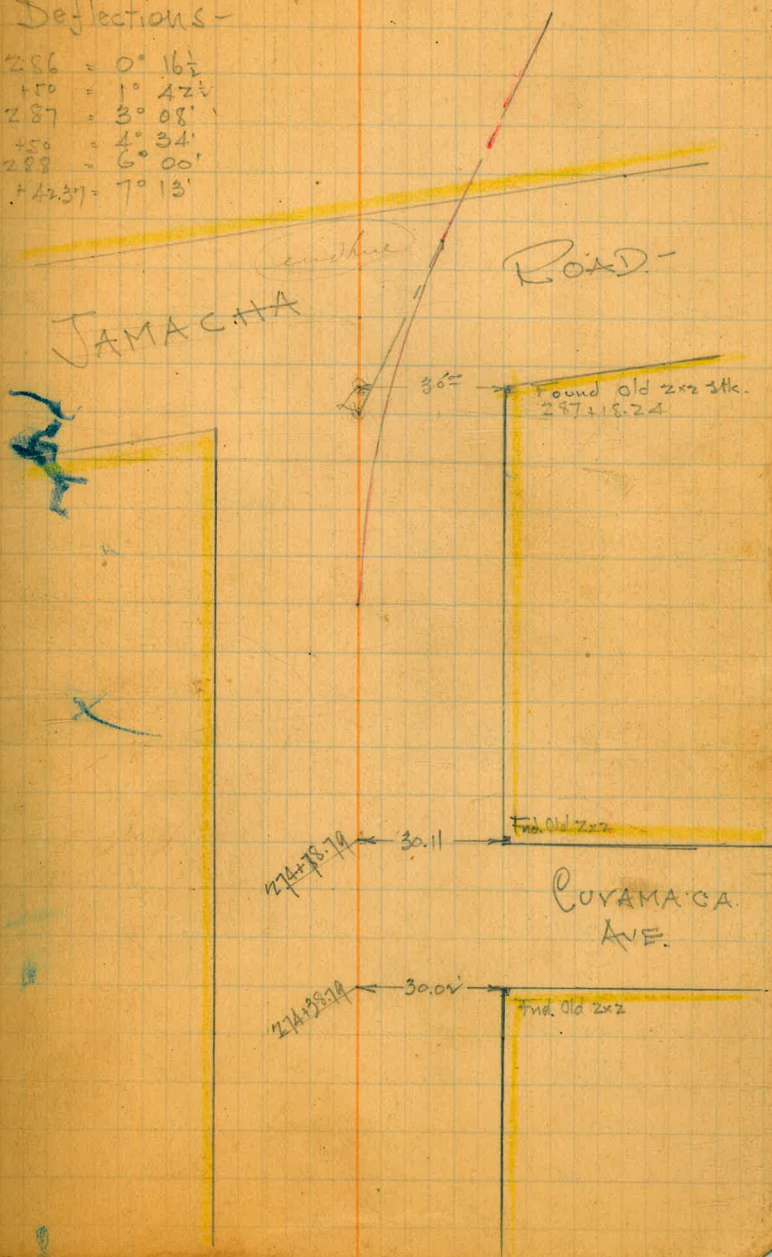
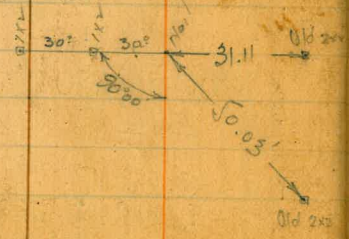
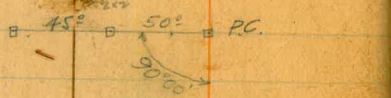
288+42.37 P.T.

287+17.08 P.C.

285+90.46 P.C.

274+78.79 P.O.T.

4020.41  
~~251.91~~



Sta. Dist. Angle Az. Def. \* Ties-

Topog-

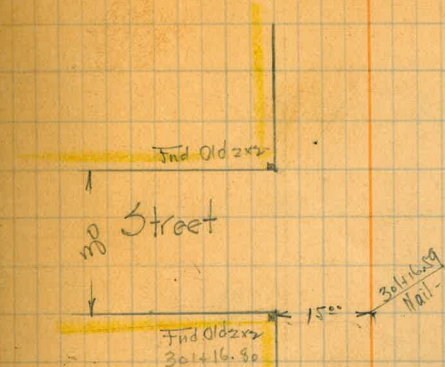
27

30416.59  
P.O.T.



29145.53  
P.T.

3789.75



Deflections-

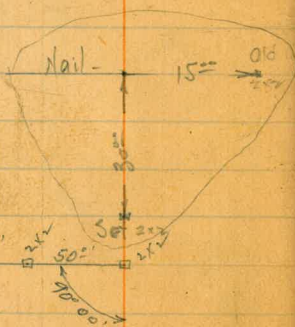
280+50 = 0° 25'  
290 = 1° 08'  
+50 = 1° 51'  
291 = 2° 34'  
+50 = 3° 17'  
+59.53 = 3° 25'

Left  $L = 6^{\circ} 50'$   
 $R = 2000'$   
 $T = 119.40'$   
 $L = 238.53'$

290+40.40  
P.I.

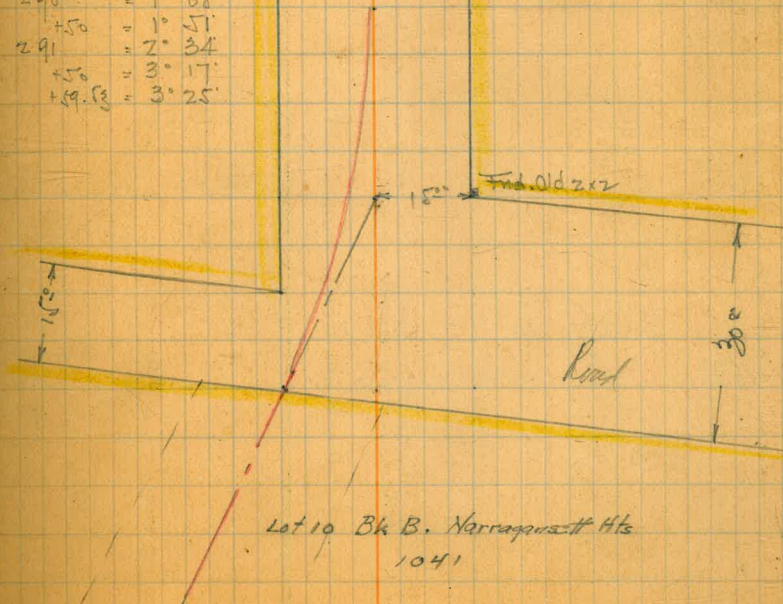
172° 10'  
346° 20'

6° 50' Lt.



289+21.00  
P.C.

324.65



Lot 10 Bk B. Narragansett Hts  
1041

Sta. Dist. Angle Az Def. \* Ties

328+29.88  
End -

324+00  
P.O.T.

317+95.20  
P.O.T.

307+15.55

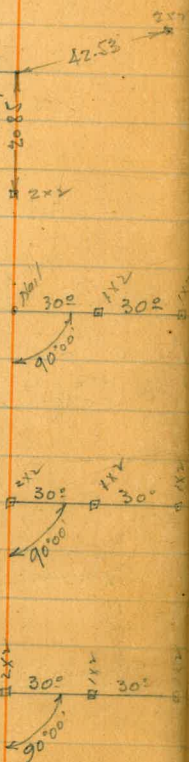
378975'

328+29.88  
Nail

324+00  
Nail

317+95.20  
Nail

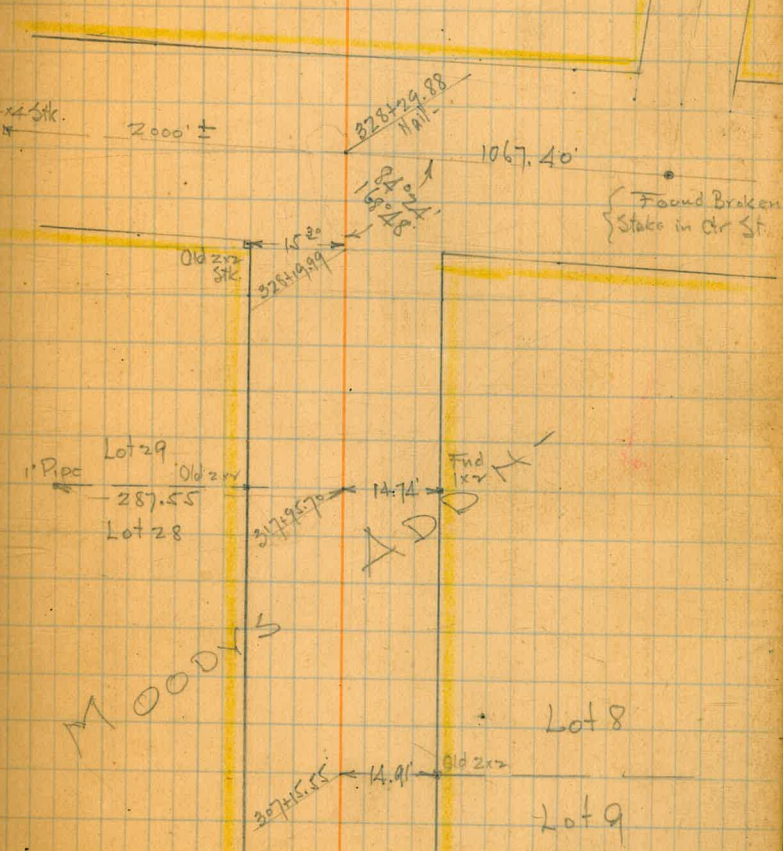
307+15.55  
Nail



Topog-

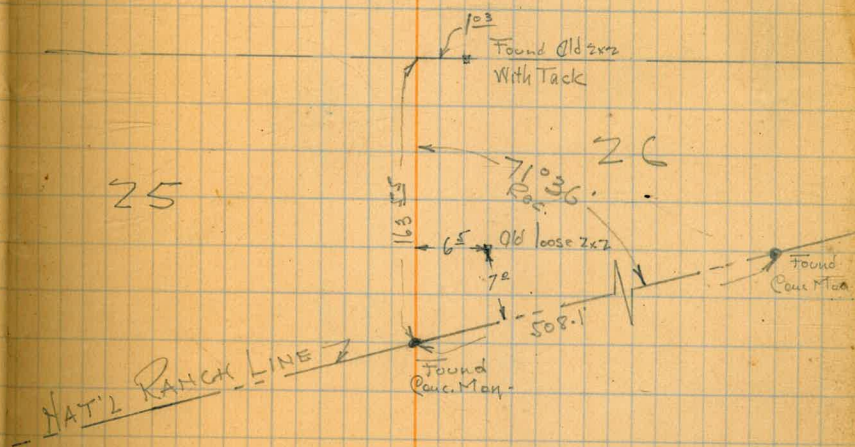
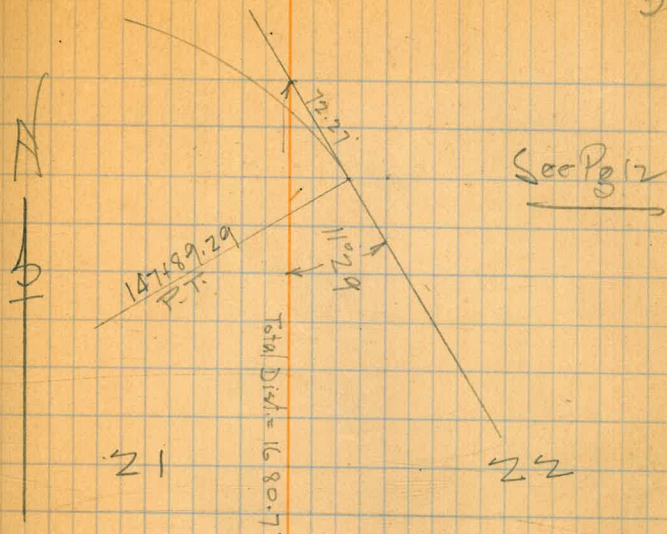
28

LEMON GROVE ADDN # 1

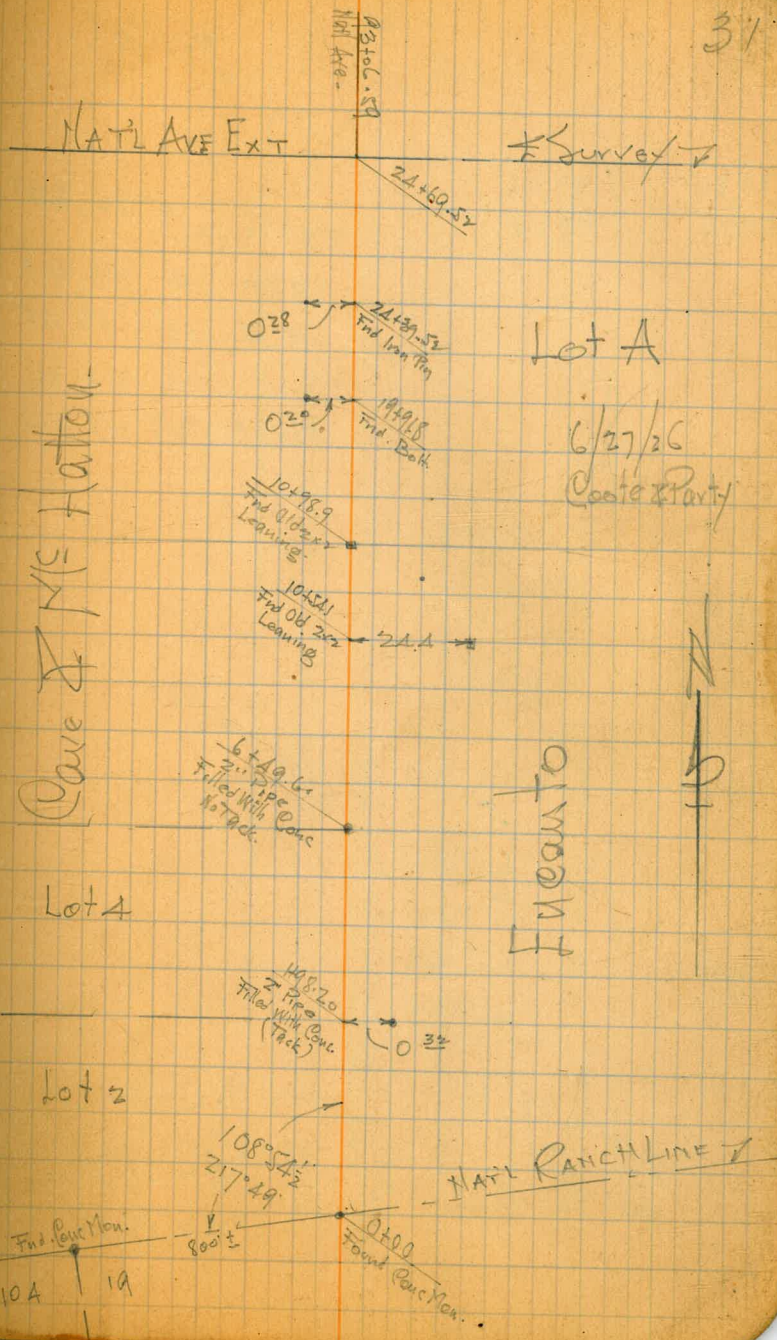


MOODY'S

29







Sta. Dist. Angle Az. Def. ± Ties-

13.20  
130+20.62  
P.O.T.

742.67

126+25 4° 33' 63"  
+50 11 43.43  
+75 18° 53.05  
127 26 02.76  
+1327. 29° 50.84

127+13.27  
E.C.

126+66.26  
P.I.

170° 18' 17" 19° 41' 43" Rt  
119° 23' 26"

$\left. \begin{array}{l} L=5921.43 \\ R=100 \\ T=57.38 \\ L=104.19 \end{array} \right\}$

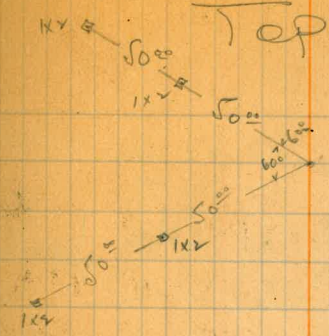
126+09.08  
B.C.

LINE CHANGE

Sta 126+09.08 to Sta 135+27.10 =  
134+69.58

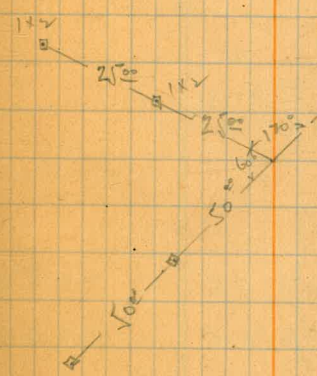
Topog-

32



17.79 13.98  
27.92 21.92

12/17/26  
Coote  
Coffow  
King-

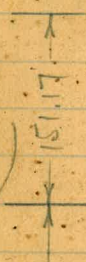


Cont'd from Pg. 8 this Book.

Sta Dist Angle  
Az. Def.

Cont'd on Pg. 9 this book.

134+69.58  
135+27.40=



Equation

133+98.51  
A

126° 30' 43"

53° 29' 17" R  
106° 58' 34"

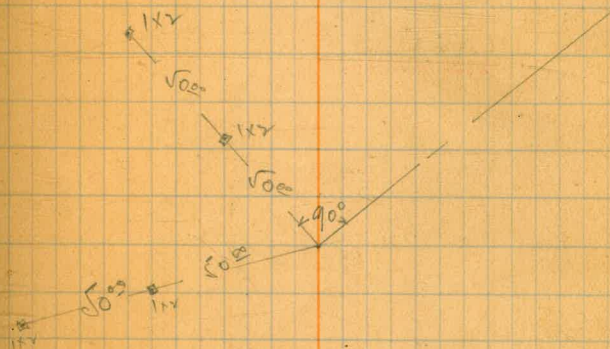
132+47.34  
BC

L = 53° 29' 17"  
R = 90°  
T = 151.17  
L = 280.06

133 98.51  
132 47.34  
151.17

742.67

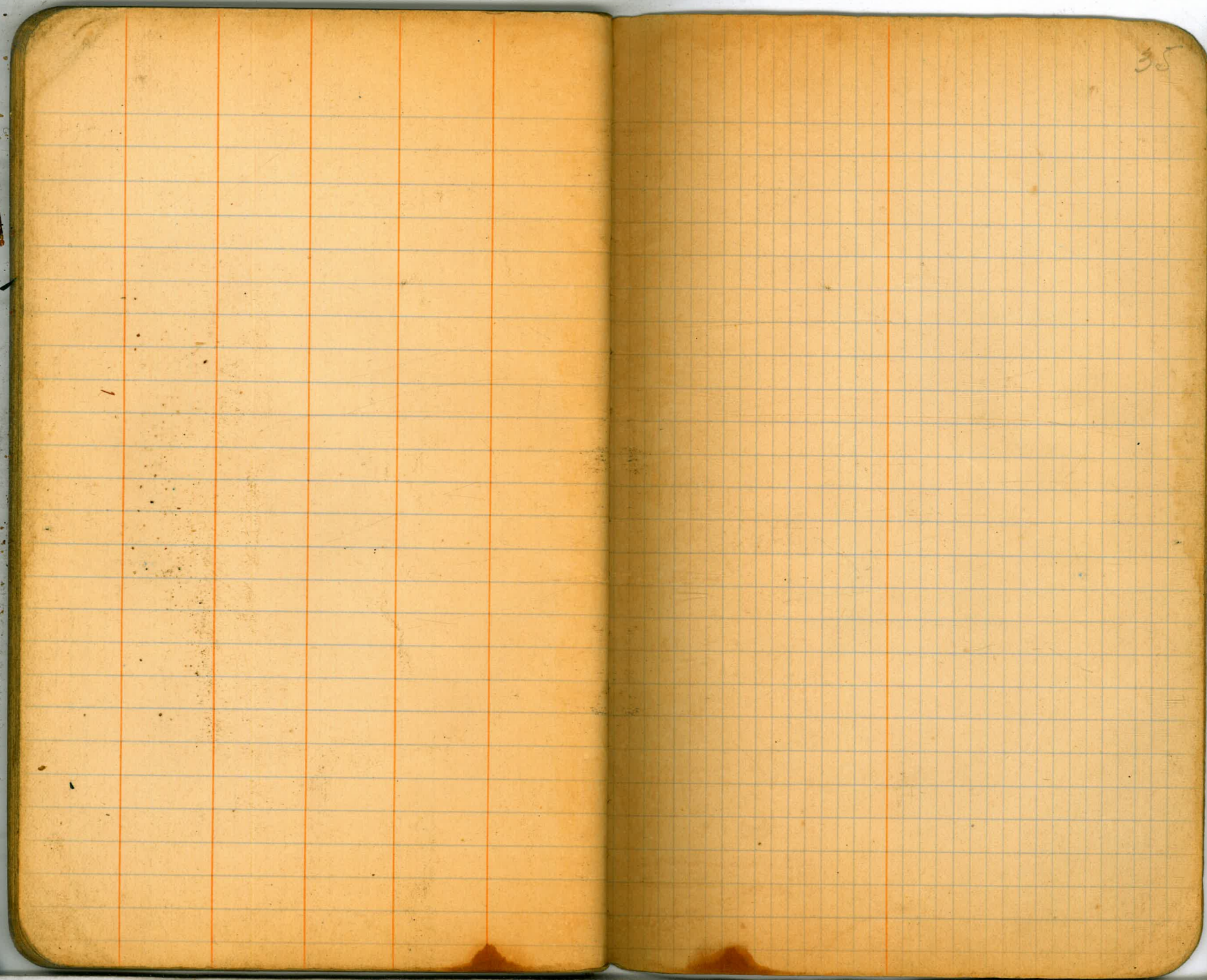
132+50 0° 13' 06"  
133 5° 0' 0" +25 2° 38' 30"  
+50 9° 46' 46" +25 7° 23'  
134 14° 33' 34" +75 12° 10'  
+50 19° 20' 22" +25 16° 57'  
135 24° 07' 10" +75 21° 43'  
+27.40 26° 44' 38"



28.75      26.54  
26.00      24.00



34



35

93+06.41

2.51'

200+

231+56.41

3x3  
27 26

207+34  
197+29.73

239+31.30

105.57

25.84

25

239+60.16

105.47

150.27  
1329.17

In out 167+70.34

Cur. Date 17-2+31

Ins. 189+96.11

R. 1001

Bob Key

221 W. Olive St.

Corona

LA 59

9-20-7

119-21

53-27  
101-54

Cham

104

742.7

251.69

490.98

151.17

100.22  
51.69

133+98.51  
127+13.27

685.44  
57.39



RETURN TO  
Watson, Valle & Gough, Inc.  
508 Spreckels Bldg.  
San Diego, Calif.

Dim I  
22 = X/R  
R Dim I