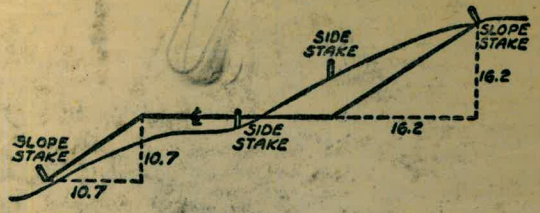




815



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING  
SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

Please Return to  
City of San Diego Water Dept.  
Room 903 Civic Center

MICROFILMED

JAN 16 1965



Suth. P.L. New alignment - sta 245-629 1-35 ✓

" " Ties to Bowles Fancher Ranch 30 ✓

" " - Preliminary line - from Suth. S.V.P.L. 37 ✓

to point below Fancher Rec's 37 ✓

Suth. P.L. New Alignment 12440-2024052 38 ✓

" " Revision - 0400-15460.77 39.4 ✓

alice

" " " 629+59.12 - 637+96.76 - 43-46

" " Alignment - 30+86 47-50 ✓

alice

" " NEW ALLIGN. STA. 462+00 TO 467+21 PAGE 55

SOUTH. P.L. ALLIGN. STA 396+52 TO 446+23.11 51 ✓

com

Suth P.L. Reloc. 490+07.01 496+10.92 56-57 ✓

" " " 490+07.01 - 496+51.26 58-60 ✓

alice







New Alignment  
Sutherland - S.W. Ph.

King  
West  
Williams

11-26-51

267+64 - Edge Grain Field

PR 212976 φ

266+65

Grain

PR 212977 φ

263+15

Edge

Grain Field

262+55

Note: Good place For Trestle

1800

Gully 261+54

PR 212978 φ

257+32

PR 212979 φ

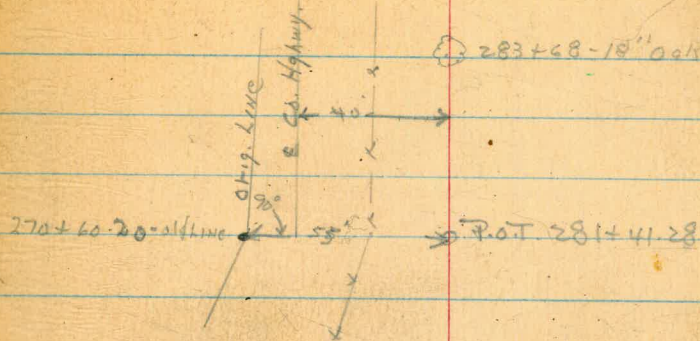
255+82



Suth-S.V. Pl.

11-26-51  
King

3



P.P. 14099 A 148 → 280+98

250 D.M. 280+62

Ties to South Line Schanke Prop

And No. Prop Line - Schegg, N.S.

P.P. 14098

277+19

R.L.

N

Valle De Los Amigos  
Lot 84

Wire Mesh

275+82

S.M. #13  
R.S. 639 CR 28

Fd. Pipe

2154.52

593  
35

Fd Lot  
CONC. M/A

632.53

367.58

273+87.56

141 hub 47

Set No. 1

S.E. Cor.

Lot # 4

273+79 ← 15' 25 D.M.

P.P. 14099

273+21

Lot # 1

Lot # 3  
Sec. 36

R.L.



P.P. 12978 A 148

272+19



S4th.-S.V.P.L.

Alignment Rev. Shown in Red  
Entered By VLC 2 Feb 53

300+60

~~4 1°43'30" H.~~

299+60

Δ 1°43'30" L

see Feb 1953

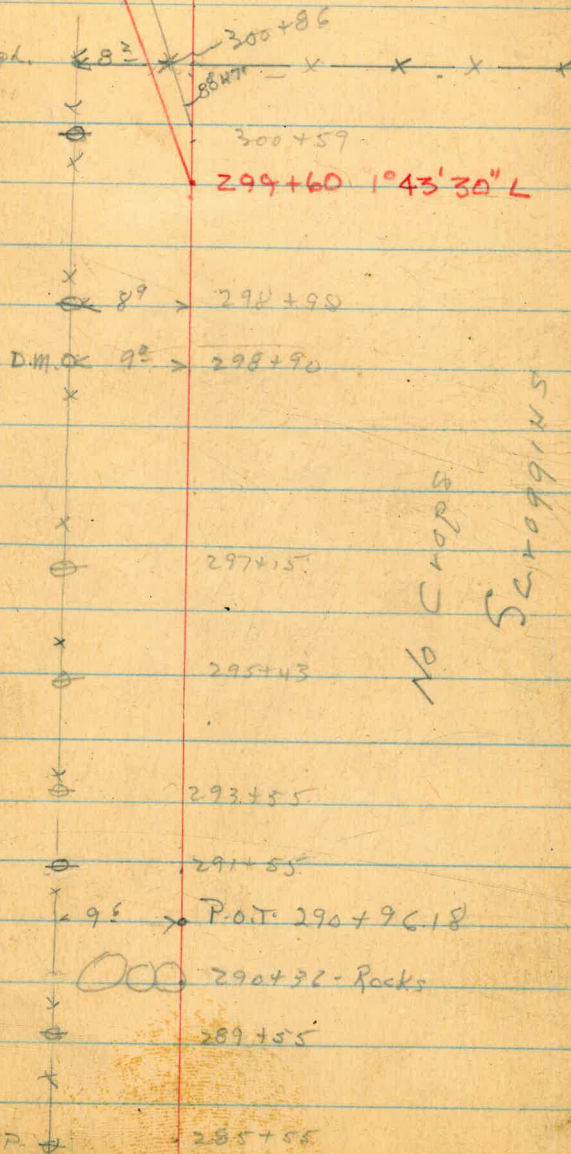
298+96.18

P.O.T.

11-26-51

King.

Note: Use as Prop.





303+60

$\Delta 1^{\circ}43'30'' L$  Feb 2, 1952

~~302+60~~

~~$\Delta 1^{\circ}43'30'' L$~~

Alignment Rev Shown in Red  
Centered by RL Feb 2, 1953

301+60

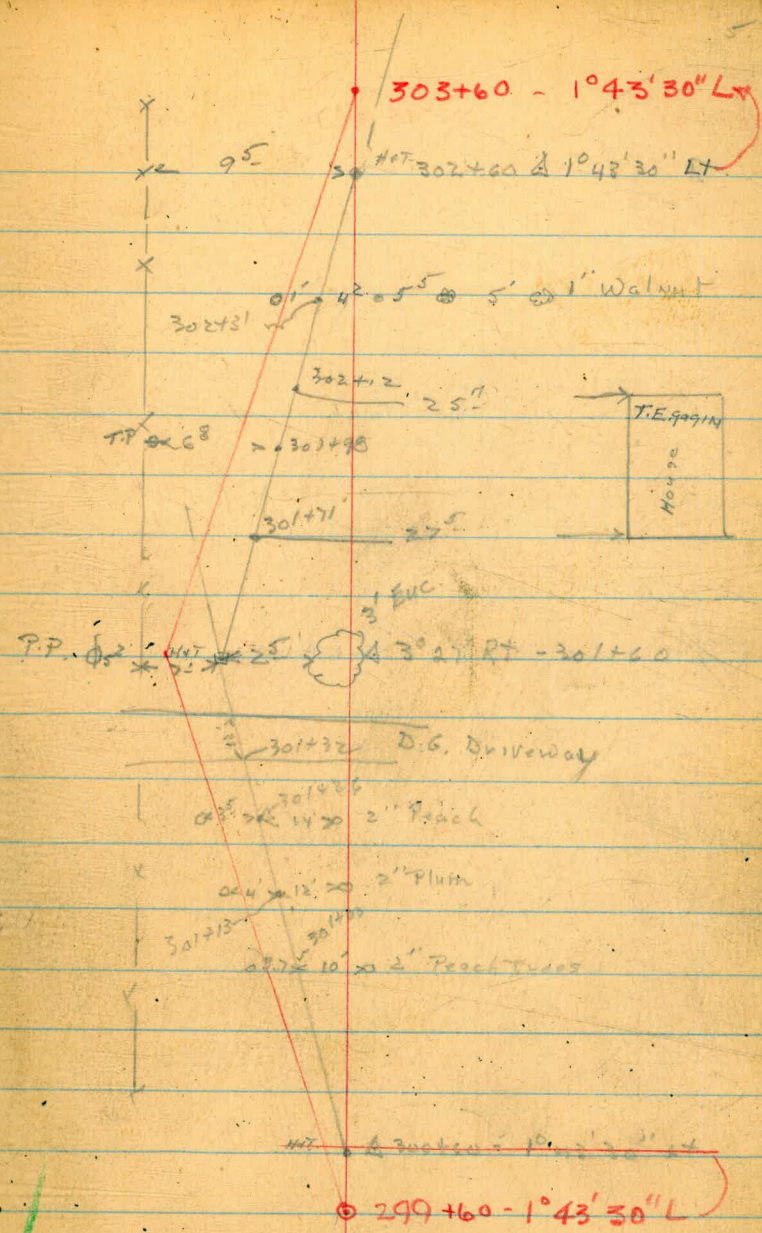
$\Delta 3^{\circ}27' RT$

~~300+60~~

~~$\Delta 1^{\circ}43'30'' L$~~

299+60

$\Delta 1^{\circ}43'30'' L$





Suth-S.Y. P.L.  
New Alignment

309+45

$\Delta 1^{\circ}43'30'' R$

308+45

$\Delta 1^{\circ}43'30'' R$

307+45

$\Delta 3^{\circ}27' L$

306+45

$\Delta 1^{\circ}43'30'' R$

305+45

$\Delta 1^{\circ}43'30'' R$

Alignment Rev. Shown in Red.  
Entered by V.L.C. Feb 2, 1953

11-27-51

Kind

CANC. INCASED Well

37' Deep - 17' Water  
5" Diameter

Note: Use as  
Prop. Line

T.P. 308+72

309+45  $\Delta 1^{\circ}43'30'' R$

308+45  $\Delta 1^{\circ}43'30'' R$

99.87

307+45

$\Delta 3^{\circ}27' L$

chiseled X

11'

307+34.7

306+45  $\Delta 1^{\circ}43'30'' R$

T.P. 4

306+10

305+45  $\Delta 1^{\circ}43'30'' R$

T.P. 9  $\Delta 9^{\circ}$  303+60

303+20

Blk

20

6' High

Grass Field





Suth-S.Y. P.L  
New Highw

11-27-51

Kixig

T.P.  $\phi$   $2^{\circ} >^{\circ}$   $\leftarrow 312485$   $\times$   $\leftarrow$

$\times$   
312458 11' @ 19' @ 3" Spruce

312436 21' @ 18' @ 3" Spruce

$\times$   
312416 11' @ 19' @ 3" Peach

$\times$   
312496 11' @ 18' @ 3" Spruce

$\times$   
312475 11' @ 21' @ 3" Peach

$\times$   
312457 11' @ 19' @ 3" Peach

T.P.  $\phi$  312424

$\times \leftarrow 8' \rightarrow$  312400

$\times$   
41' @ 310467  
5" Peach

T.P.  $\phi$   $10^{\circ}$   $\times$  310432

$\times$   
2-0 D.M. 308464

$\times$   
308445 @ 1°43'30" R+

$\times$

308445





Suth-S.V. Pl.

11-27-51  
MNS

8

T.P. 1

327980

T.P. 0'

325475

T.P. 1

323495

T.P. 1

322419

T.P. 0'

320433

T.P. 1

318453

9'

318

T.P. 1

316433

S. Co. Rd.

Note:

Use as prop.

7'

314496

90°

314459

Driveway

314402

598

House

313488 - 13'-5" - 16'-0" 3" Apricot

GRAVIN FIELD  
(Room 501)  
Walters



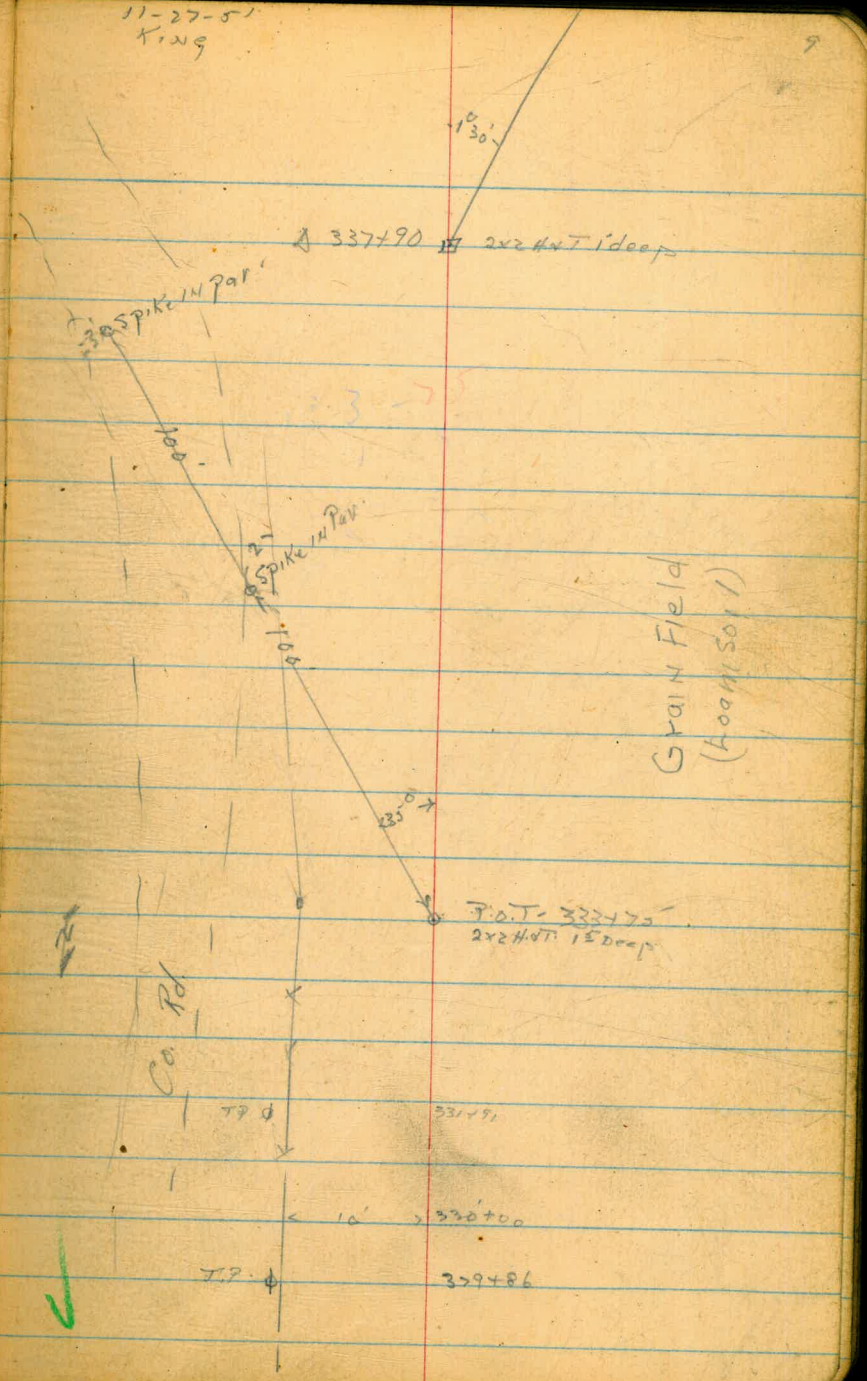
Suth-S.V.T.R.L.  
New Loc.

11-27-51  
KING

337+90

Δ 1030' RT

P.O.T. 333+75



Grain Field  
(Kooch soil)

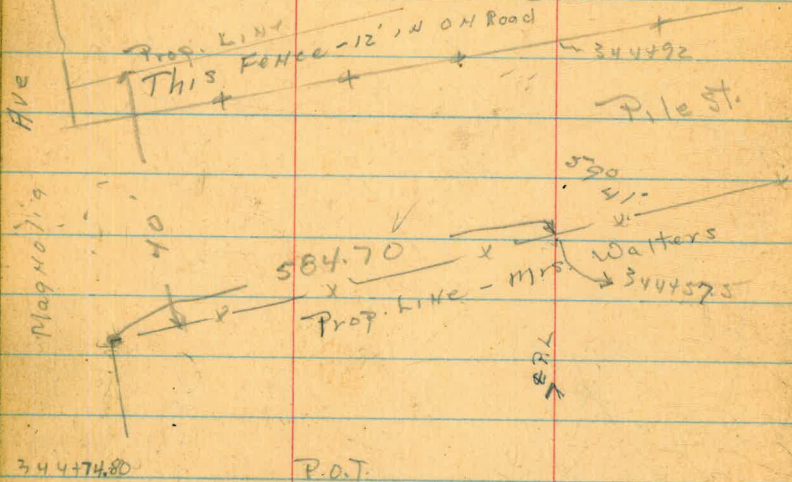




S.W. P.K.

11-29-51  
King

Ties To Pile St.

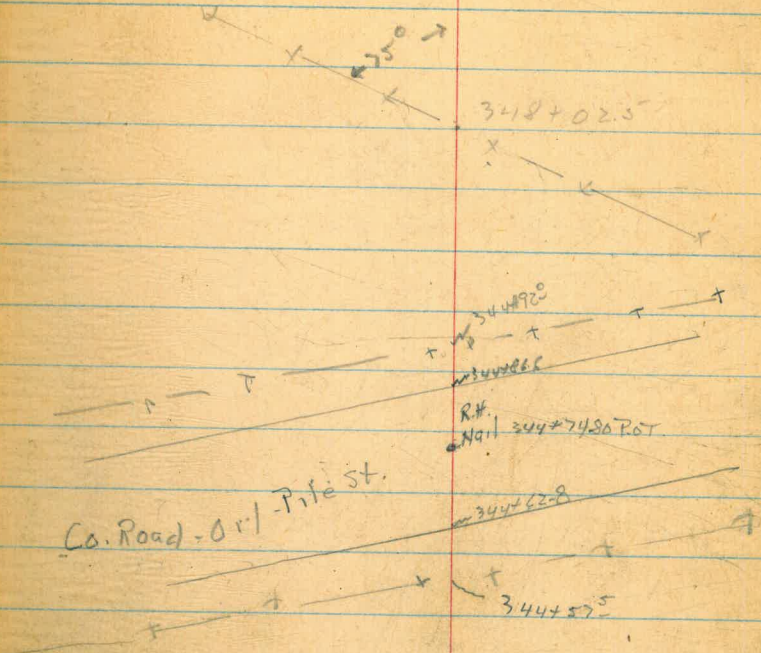


344474.80

P.O.T.

342419.85

P.O.T.



3418402.3

3444920  
R.H. Nail 3447480 P.O.T.

344462.8

344457.5

closed x P.O.T.

342419.85  
Rock outcrop

5' 24" 3  
10' 21" 2  
18' 25" 1  
28' 11" 5

327490

Grain  
(Lawn Soil)



Syth-SI.P.L

11-29-51  
KING

357+37.12

P.O.T.

358+36.49

P.O.T.

352+47.84

P.O.T.

357+37.12 P.O.T

358+36.49 44T

358+35.5

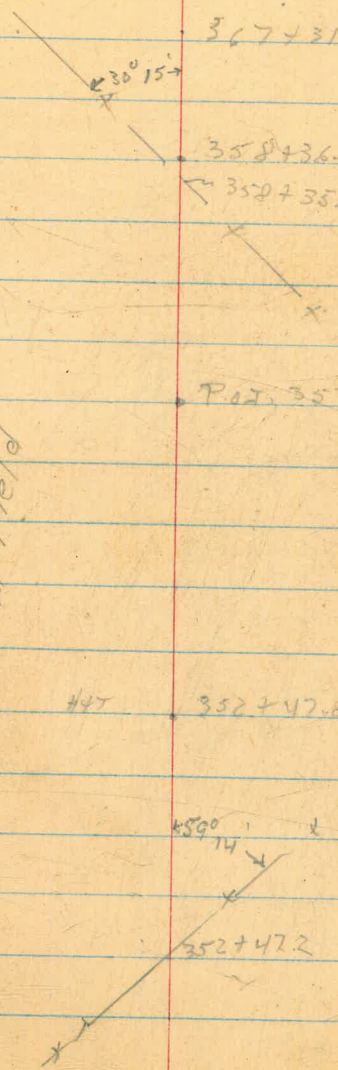
P.O.T. 357+0.0

44T 352+47.84 P.O.T.

4500  
41.65

352+47.2

Grain Field





Suth. S.V. P. 2

Ties to front line

CONG. MON.

IRON PIN

20°24'

379741.19

68810

CONG. MON.

377494.64

P.O.T

11-29-51  
King

380+37

Pasture

21°1'

20°30'

377446

378480

378461

377494.64 P.O.T

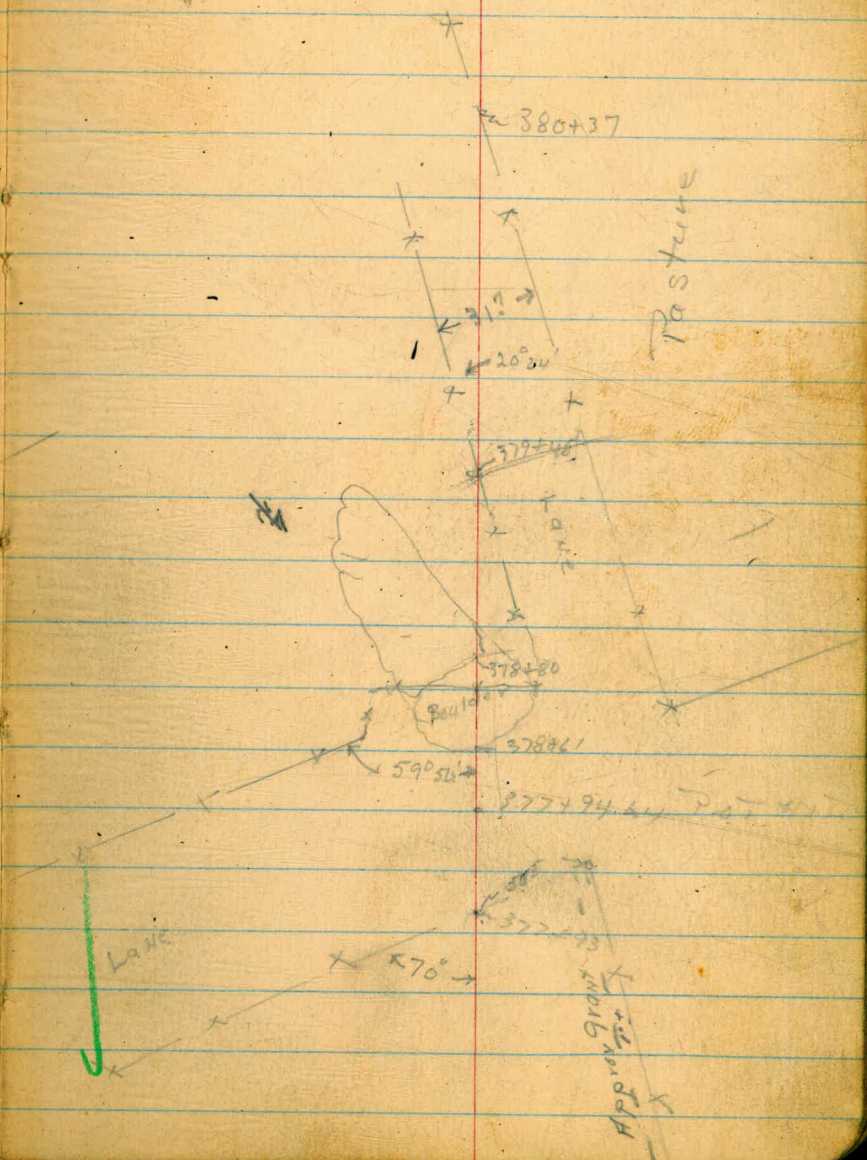
377473

70°

Approx. front line

Lake

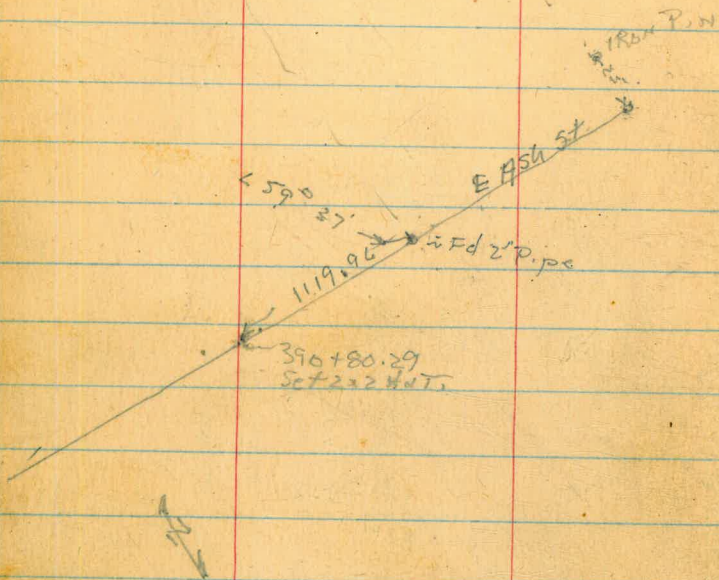
70°





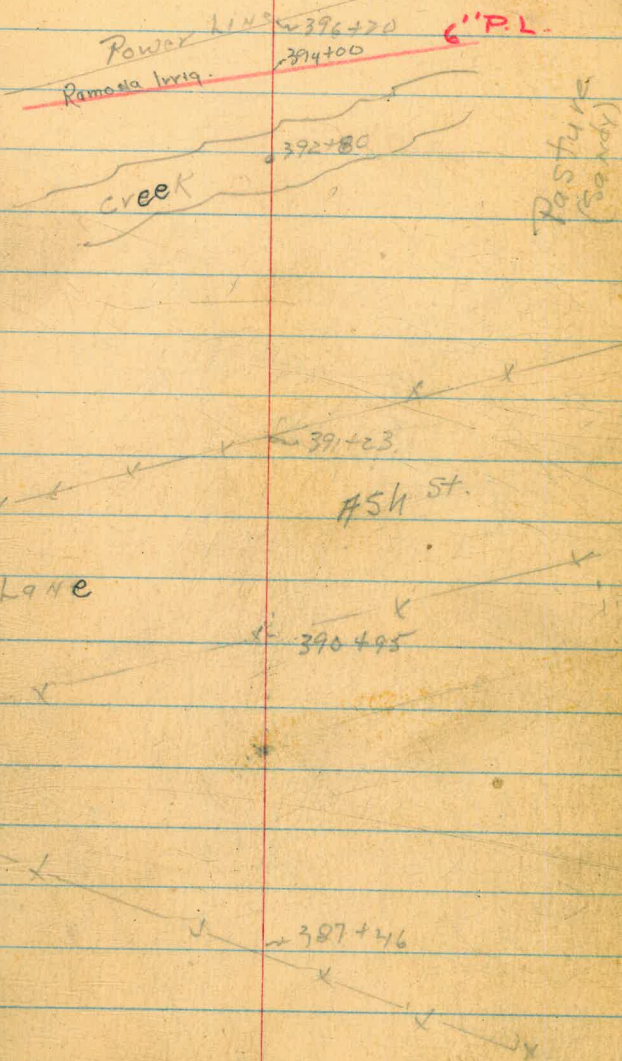
suth. - R. P. L.

Ties to Ramona Irriq. Land



12-3-51  
RING

13





Suth-S.V.P.L.

12 3-57  
Kring-

cold-cloudy

14

Void see pages 51 to 54

E.C. 398+82.47

A 2° 59' R<sub>L</sub>

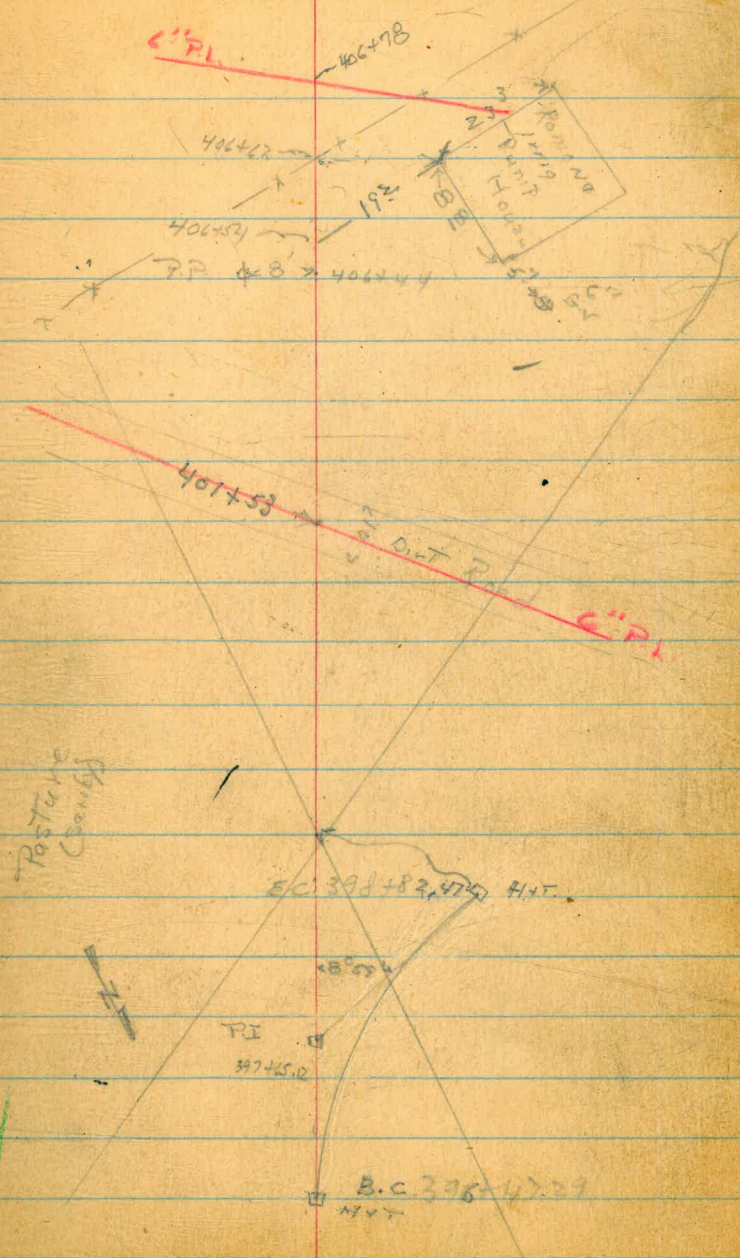
R=1500

T=11783

L=235.18

DEPL. 70' = 0.14

B.C. 396+47.29





Suth-S.V. P.L.

12-4-5'  
King

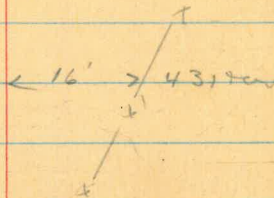
Rein

15'

430400

P.O.T

Void



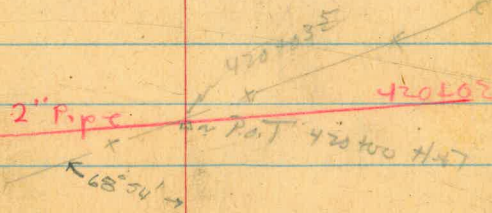
P.O.T. 430400  
H47



Plowed Field

420400

P.O.T





Suth. S. P. L.

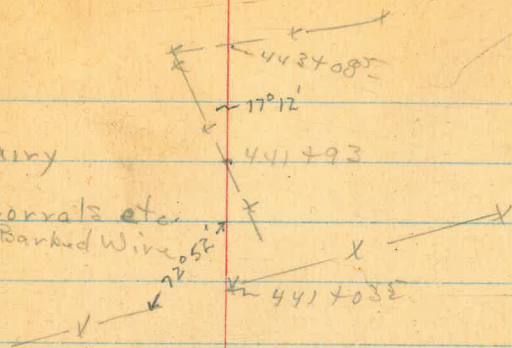
12-4-51  
KING

16

Dairy

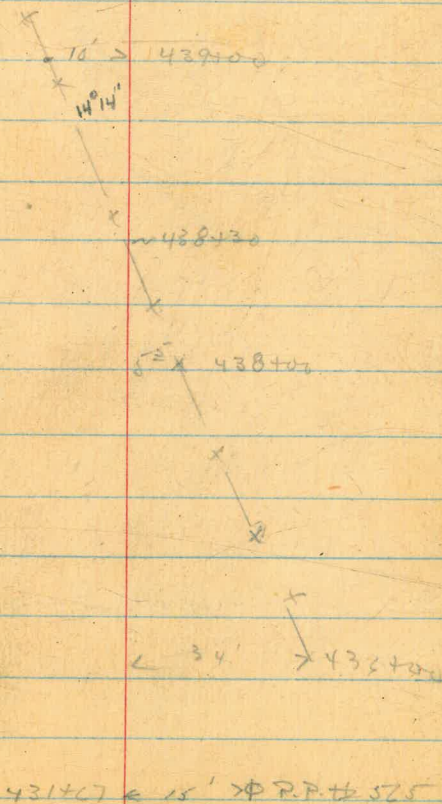
Cornals etc.

Banked Wind



Void

Plowed Field  
(Banked Loam)





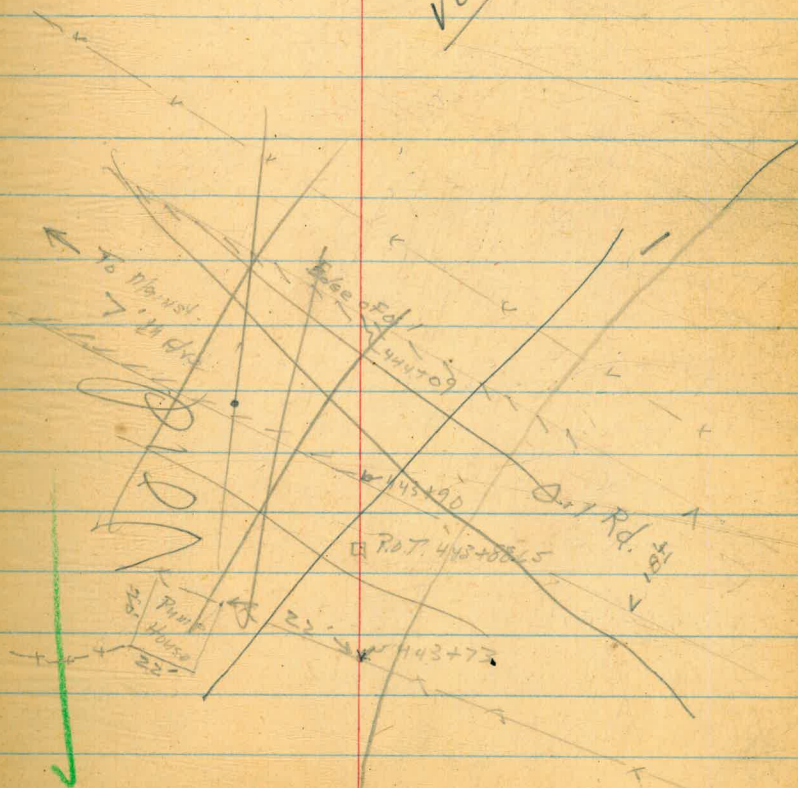
Suth. S.V. P.L.

12-4-51  
KING

57

VOID

VOID



~~443+00.5~~

~~P.O.T. ON TANGENT~~







Suth-S.V. P.h.

12-4-51  
King

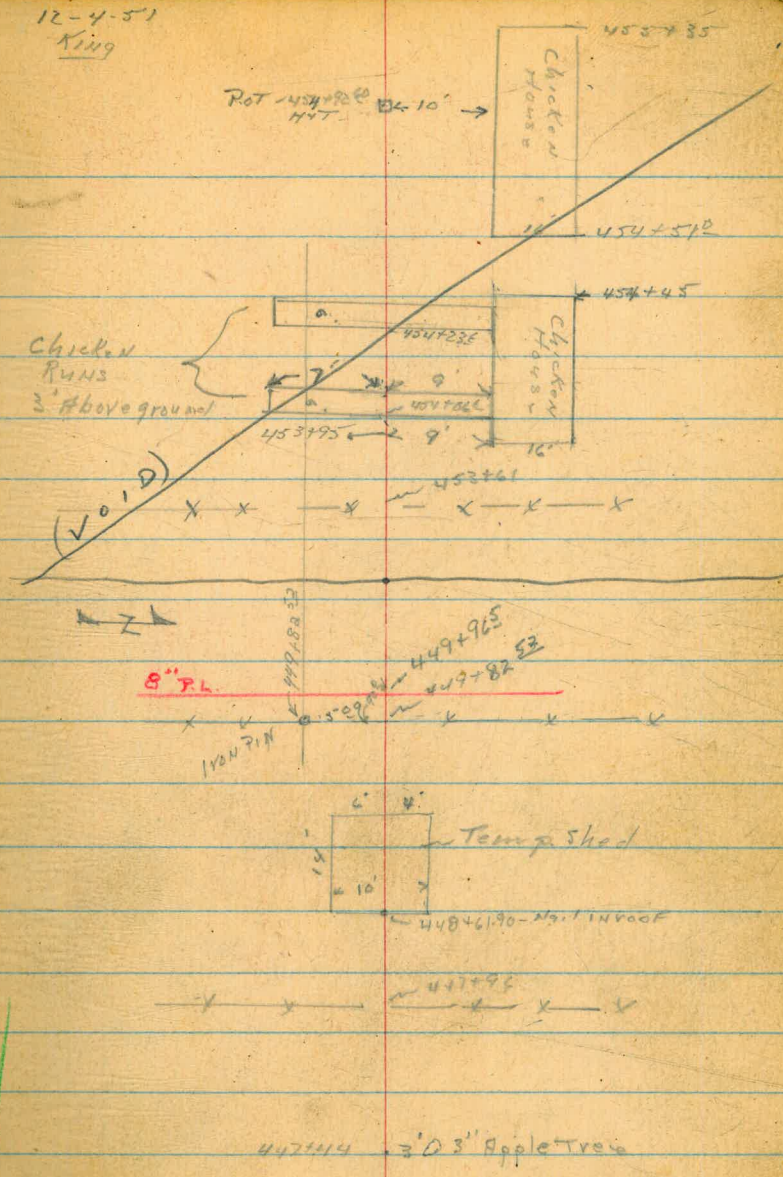
P.O.T. 454+92.00

VOID

451+00 to 455+98 AR

See FB 828 Pg 34.

EC 447+4280



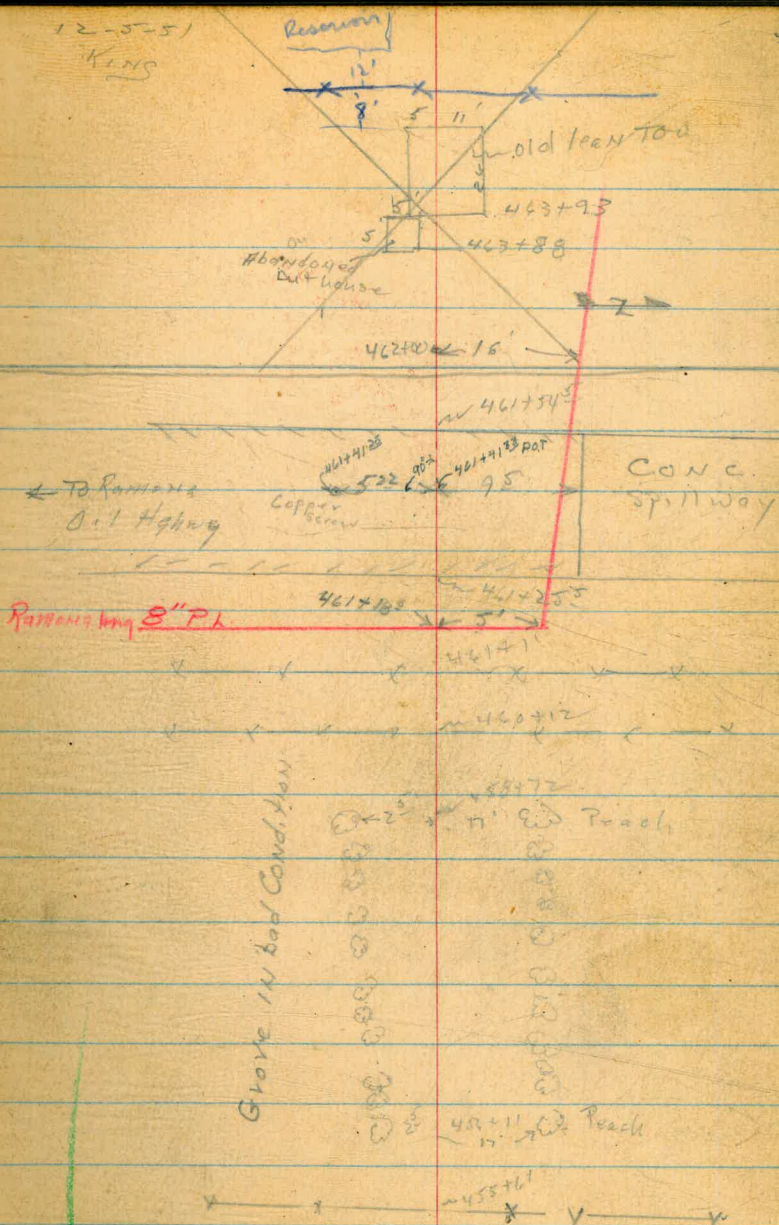


60 1/2

Suth S.V.P.L

VOID SEE PAGE 55

12-5-51  
KINS





Sutg-S.V.P.L.

12-5-51  
KING

478+78.81

P.O.T.

Σ IRON  
PINS

< 9' > 4817.00

P.O.T. ~~478+78.55~~

Pasture

T.P. 13309 → 12' → 478+88

Ed. IRON PINS → P.O.T. 478+78.81

478+57

T.P. 13310 → 13' → 478+05

Pasture

T.P. 13311 → 13' → 478+200.0m

0' 13" → 472+89

16' → 469+59

VOID SEE  
PAGE 55

11' →

M.H.

467+71

Sewer

To plant →

F.L. 7.3' below  
ground per  
King 9/2/52

Reservoir



Sutherland-S.V.P.A.

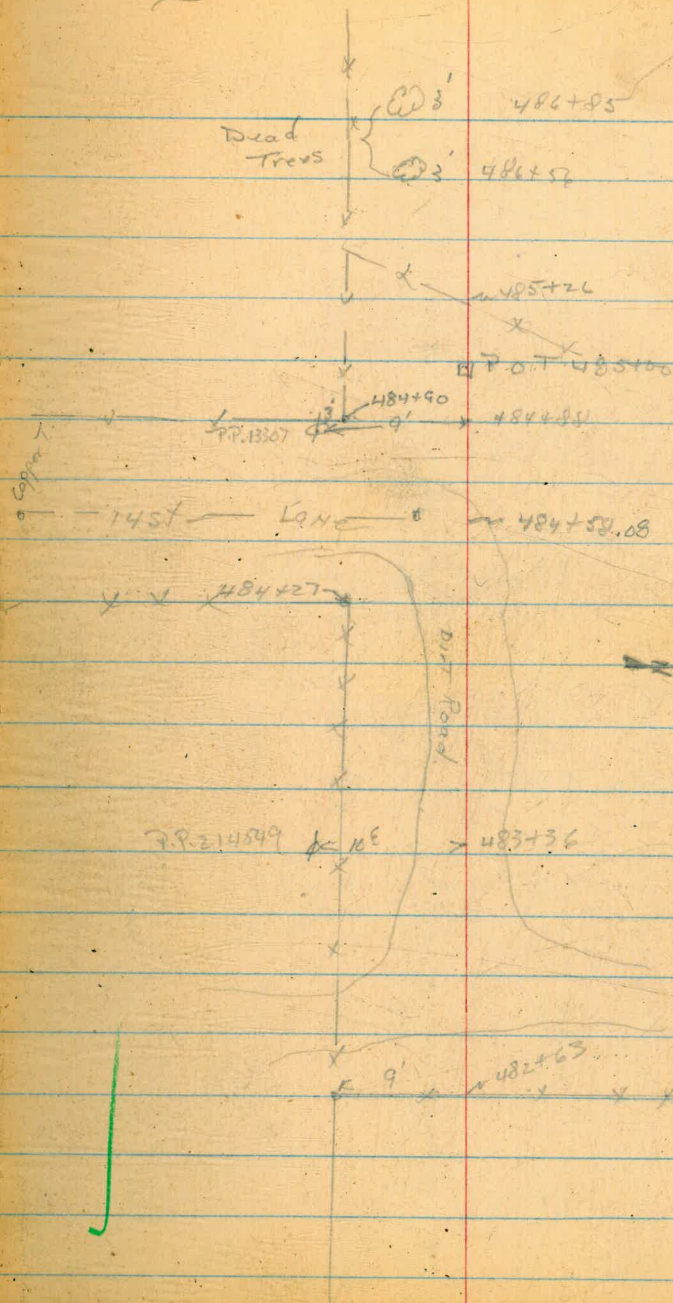
12-5-51  
KING

cold form

22

485700

P.O.T.



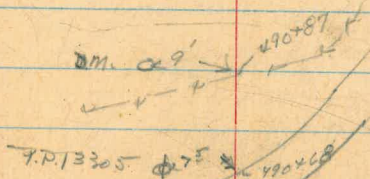
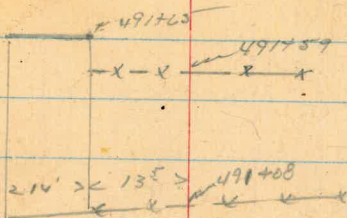


Suth-S.V.P.L.

12-6-01

KING

23



15th St. O.T. Pav.

490700

P.O.T.



P.O.T. 490700

SEE PG 77



T.P. 13306 φ 9'

487761









Suta-s.v. RL

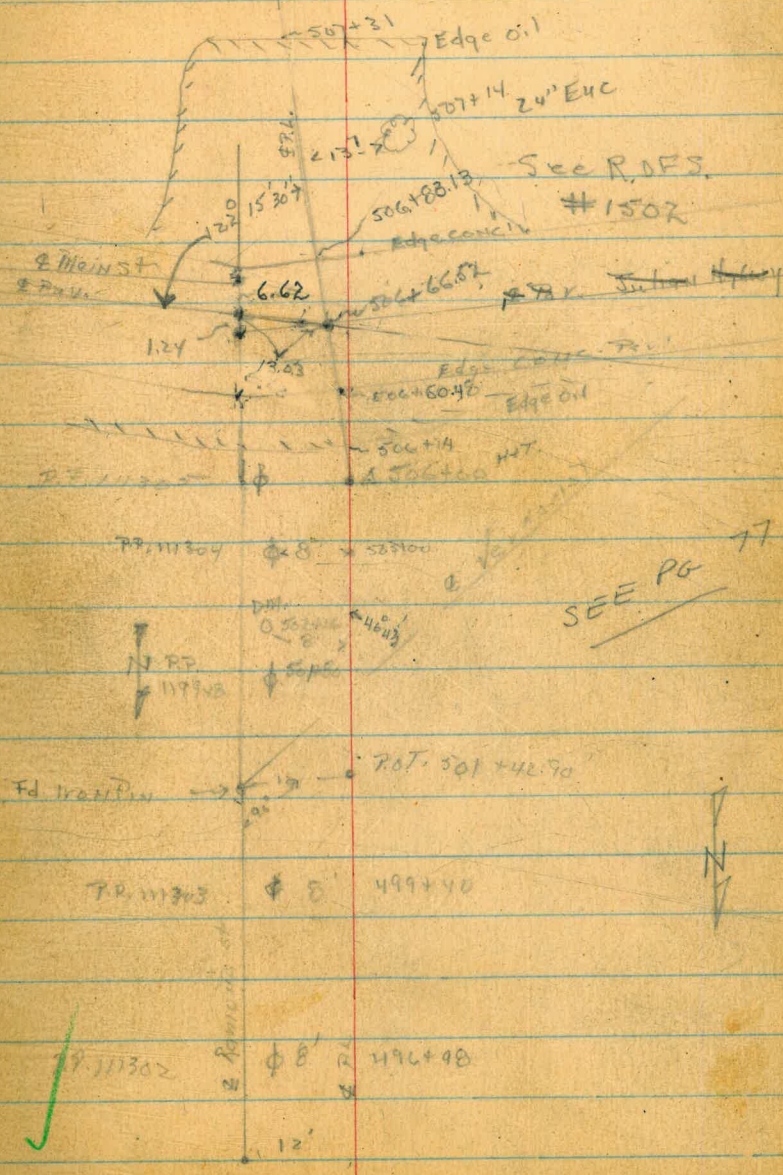
12-7-51  
King

Cold

25

8' x 508+79 P.P. # 111306

10' 20' 508+62



△ 506+00

△ 1° 17'

501+42.90

P.O.T.

Ed. Iron Pin

ROT. 501+42.90

P.P. 111303

φ 8

499+40

✓ P.P. 111302

φ 8

496+98

12'

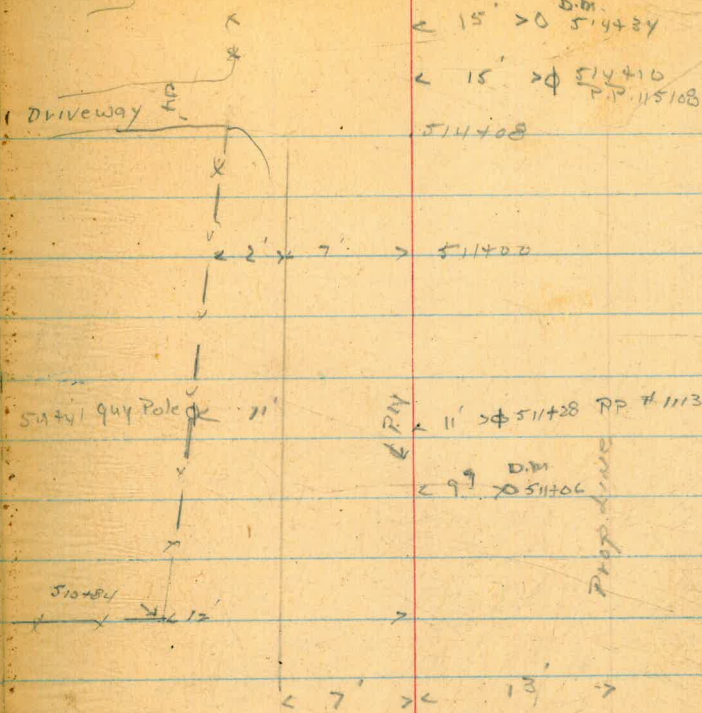


3uth-S.R.P.L.

12-7-51  
KING

Gold

20



A 508496.20

A 10° R4

Set Spike Δ 508496.20

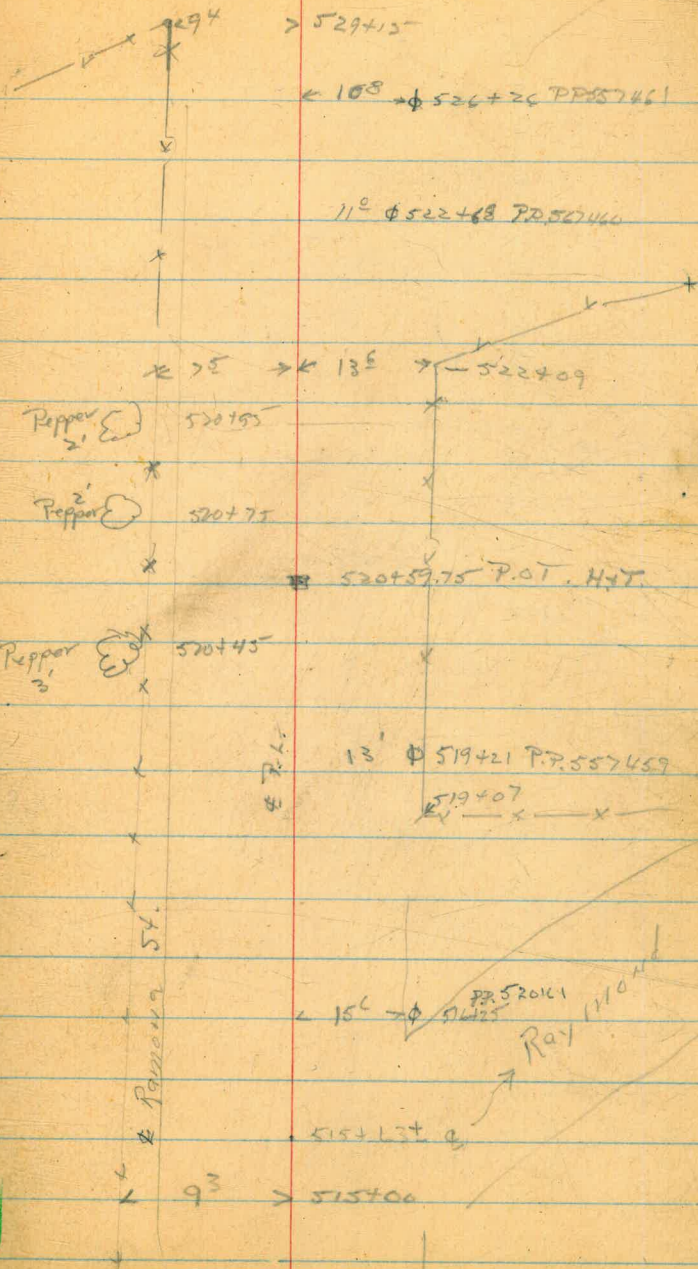


Suth-S.V.R.L

12-7-51  
KING

Cold

27



520+59.75

P.O.T.

P.P.



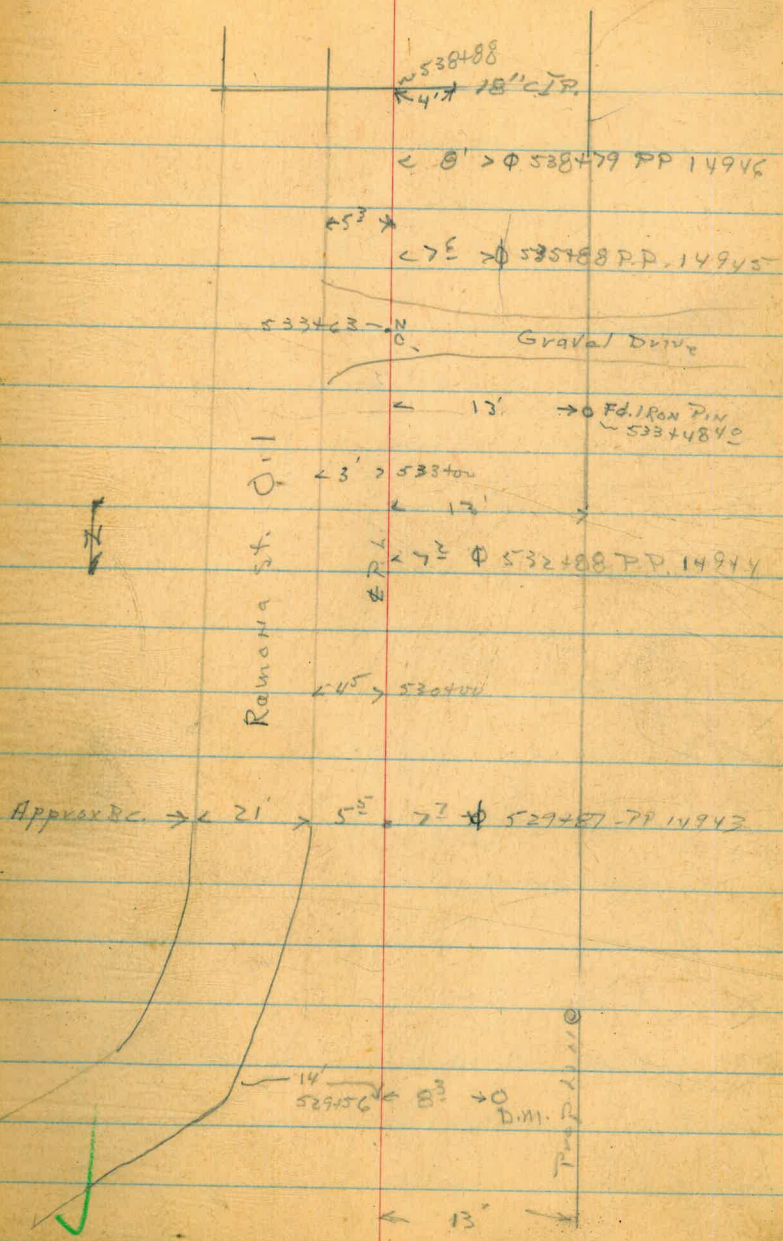


Suth-S.V.P.L.

12-7-51  
KING

Cold

29

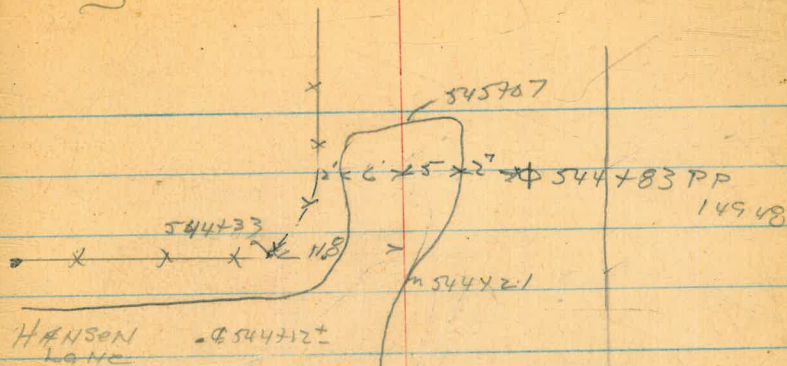




S4th - S.V. Ph.

12-10-51  
KING

cold-wind samples 29



72 φ 54482 P.P. 149.67

Lot 99

220'

7' 54406

540+54

- Oil Rd

Rowley St

540+11

90-13'

540+11.38  
Fd. Iron P.N.  
Lot 96

540+11.38

Ro.T.





Suth-S.V. P.h.

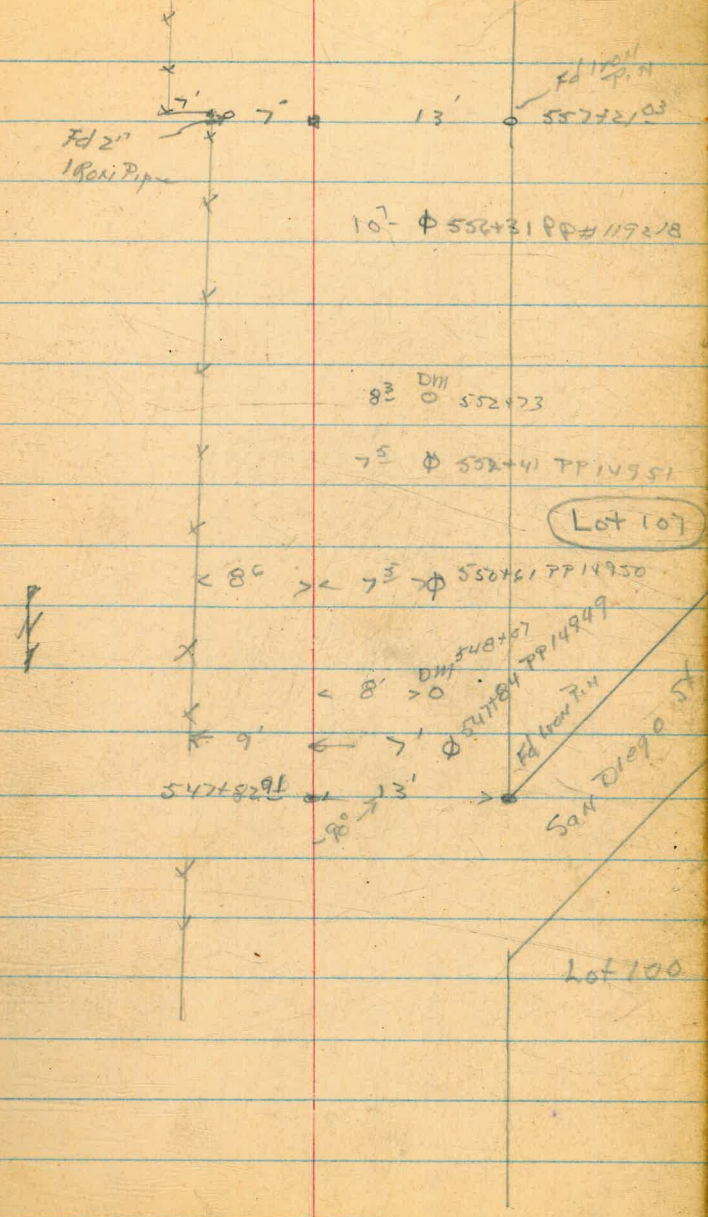
55742103

P.O.T.

12-10-51  
KINS

Cold

20

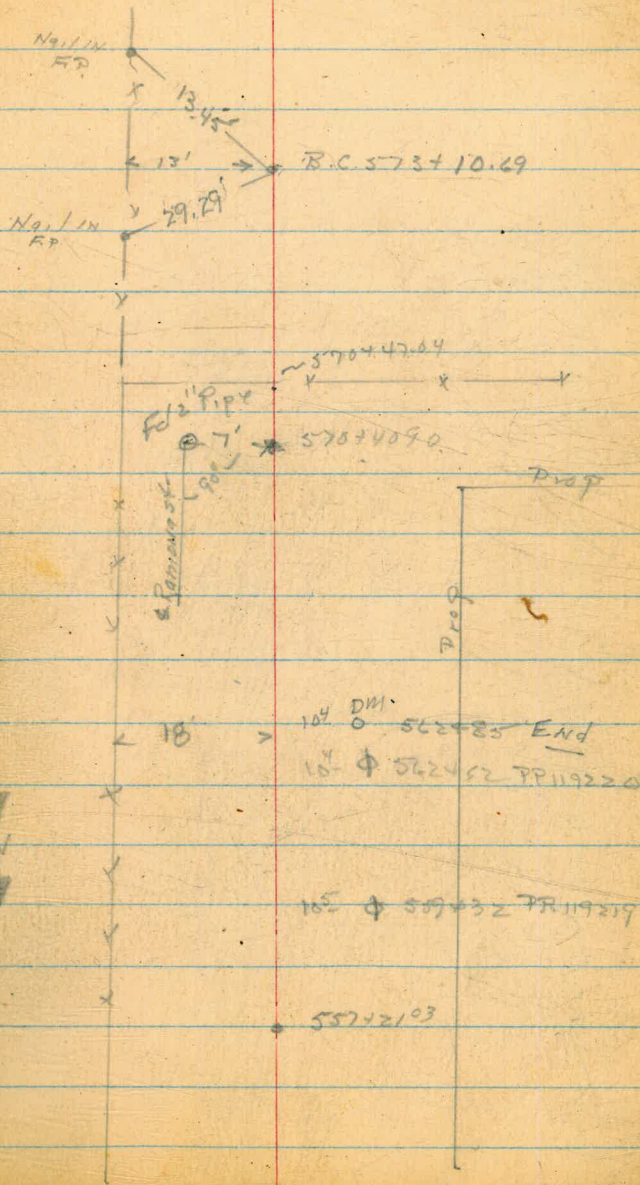




Suth-S.V.

12-12-51  
KING

21





Suth-S.V.P.L.

12-13-51  
King

cold Windy

3

E.C. 579+09.77

$\Delta 22^{\circ}53'$  Rt.

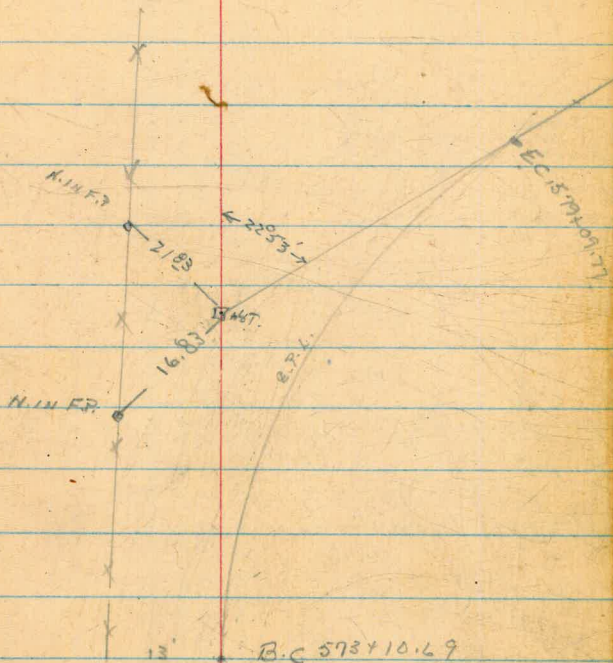
R-1500

T. 303.59

L-599.08

DEI (1106)

B.C. 573+10.69



B.C. 573+10.69



Suth-S.V. P.L.

12-14-51

King.  
Wood  
Williams

clean Warr

33

x x 601 + 0 1  
x x

6472 20 beehives  
50 15 000

W 447  
592 + 70.92

x x  
595 + 67

(Computes  
595 + 68<sup>22</sup>)  
with  
 $\phi = 67^{\circ}25'$

595 + 642V

Plowed Field

x x  
242 447  
592 + 60.54

P.L.

Ec. 599 + 09.17



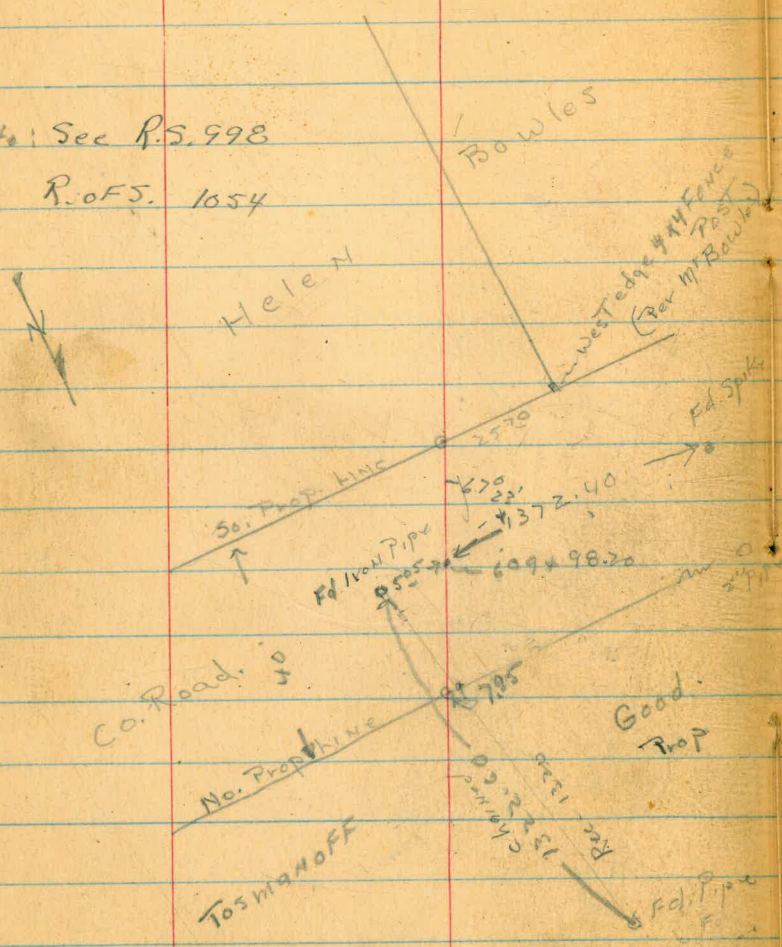
5th S.V.P.L.

12-14-51  
KING

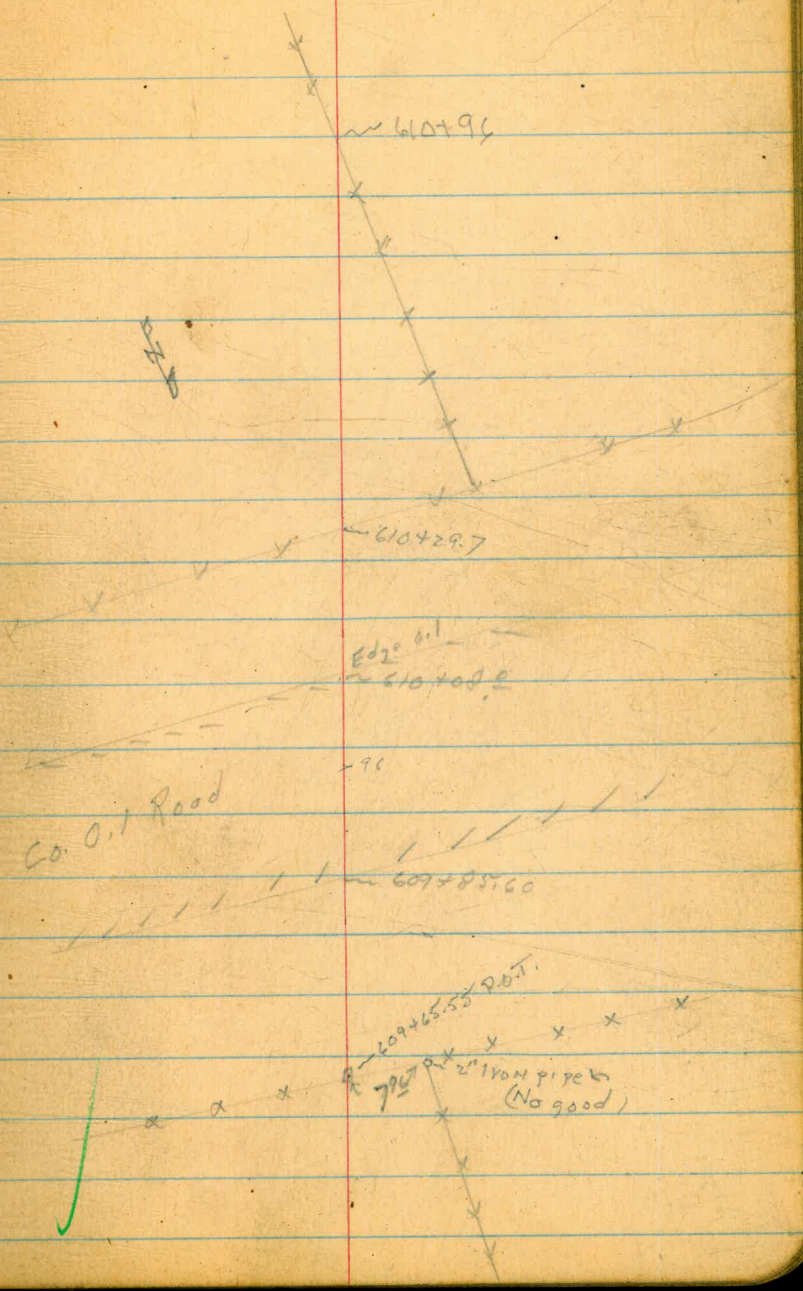
34

Ties To Co. Rd.

Note: Sec P.S. 998  
R.O.F.S. 1054



P.O.T. 609+45.55





Suth-S.V.P.h

12-14-51  
King  
West  
Williams

Clear

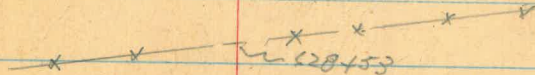
629+59+12

End

End of RL

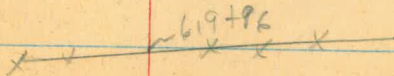
Nail in

1" Pipe 629+59+12



P.O.T 628+00

Nail in P.O.T 628+00









Preliminary P.L.  
 From end-suth. - S.V. R.L. to Pt.  
 below Fansher's Res. into creek

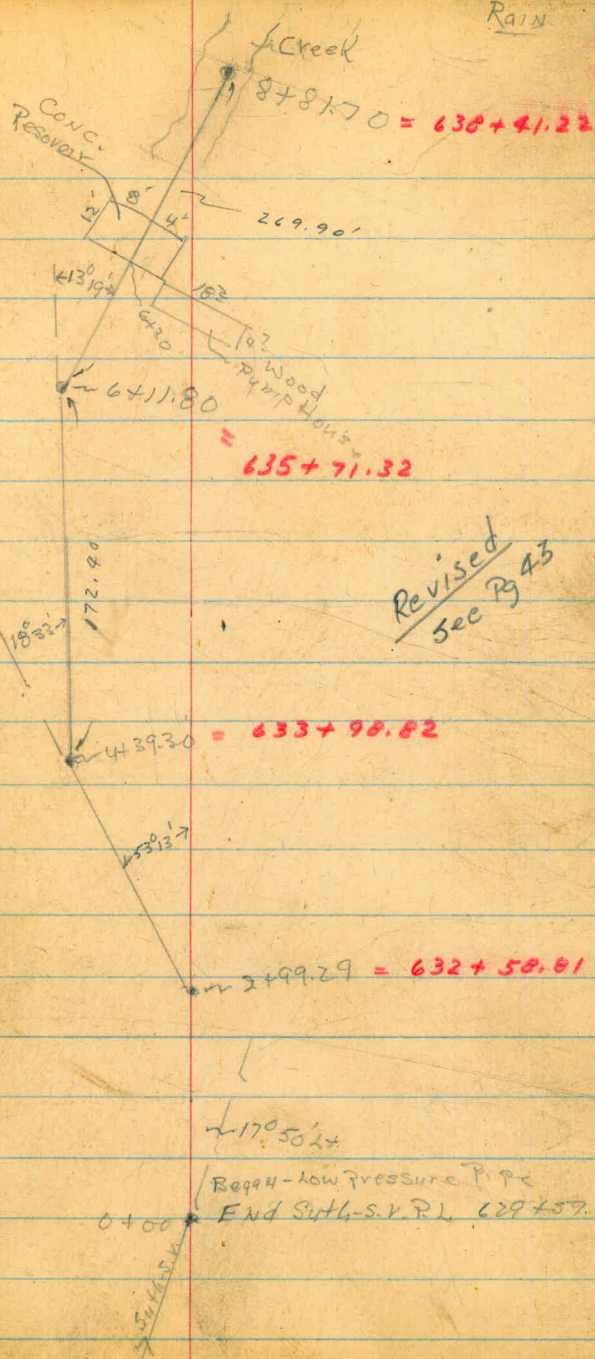
VOID

See Pg 43  
 Entered by MC 2 Feb 53

\* Revised stationing - Extension of  
 preceding section

1-17-52  
 KING

Rain 57





New Alignment  
Sylv. Pk. Sta. 172+40 - 202+68.57

$\Delta$  202+68.57 New BK = 218+67.69

202+67.91 old

P.O.T.  
187+15.04

P.O.T. 185+00.54

P.O.T.  
183+27.50

177+60  $\Delta = 0^{\circ}04'15''E$

P.O.T. 174+88.26

172+50.5  $\Delta = 3^{\circ}42'30''L$

New Sta. So. Portal #2

5-4-52-

Very Hot.

38.

King  
Williams  
Martel  
Jacobs.

$\Delta$  202 N.V.T. - 202+68.57

No. 1

$\Delta$  177 N.V.T.

$\Delta$  174 N.V.T.

177+60  $\Delta = 0^{\circ}04'15''E$

174+88.26 P.O.T. 2x2 H.V.T.

$3^{\circ}42'30''$

$3^{\circ}38'15''$

172+52.5

172+40 - So. Portal

office Revision Sho run in Red  
30 Jan '53 vlc





ReVISION-

Suth. P.L. 0+00 - Axis Dam at 1634 D

8+84.73 P.O.T.  
= 8+67.97 - on original line  
= 8+61.25 BK New alignment Δ

8+31.18 Δ 61°17' LT

6+46 1/2

Alignment Rev. from 0+00 to 8+60±  
See +B. 825 Pg 42, 46, & 47 vlc feb '53

New alignment 16°27'30" RT  
2+40.53 3/4 P.I.

5+40.04 Δ

3+55.35 - P.O.T.

2+51.49 Δ

30°53'30" RT

0+60 - Δ

13°23'30" RT

0+00 = 1634 D on Axis

5-21-52

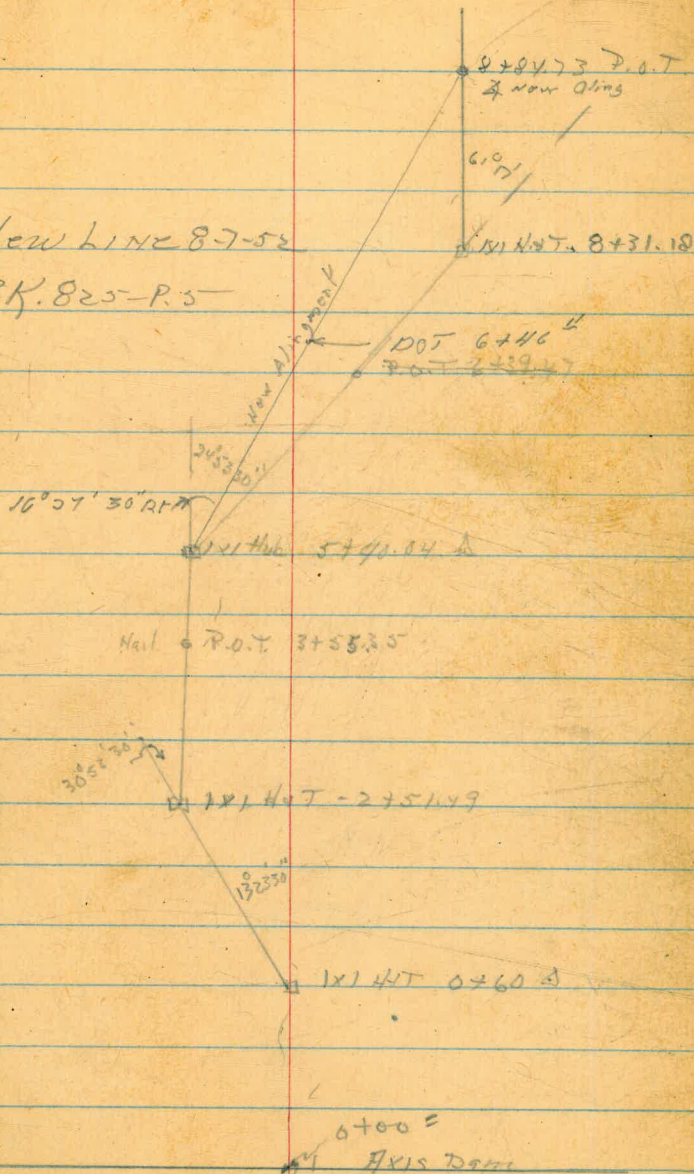
Hotchkiss

39

King  
Williams  
Martel  
Jacobs

New Line 8-7-52

BK. 825 - P. 5





Sytl. P.L. Revision  
 From Axis Dam = 0400 = 16347  
 15+60.77

15+26.28 FH.     27°38'30"  
 15+60.77 BK Δ = 32°20" RT.  
 15+37.83 BK Δ

13422.93  
 13+45.87  
 Δ 34°10' LT. OK

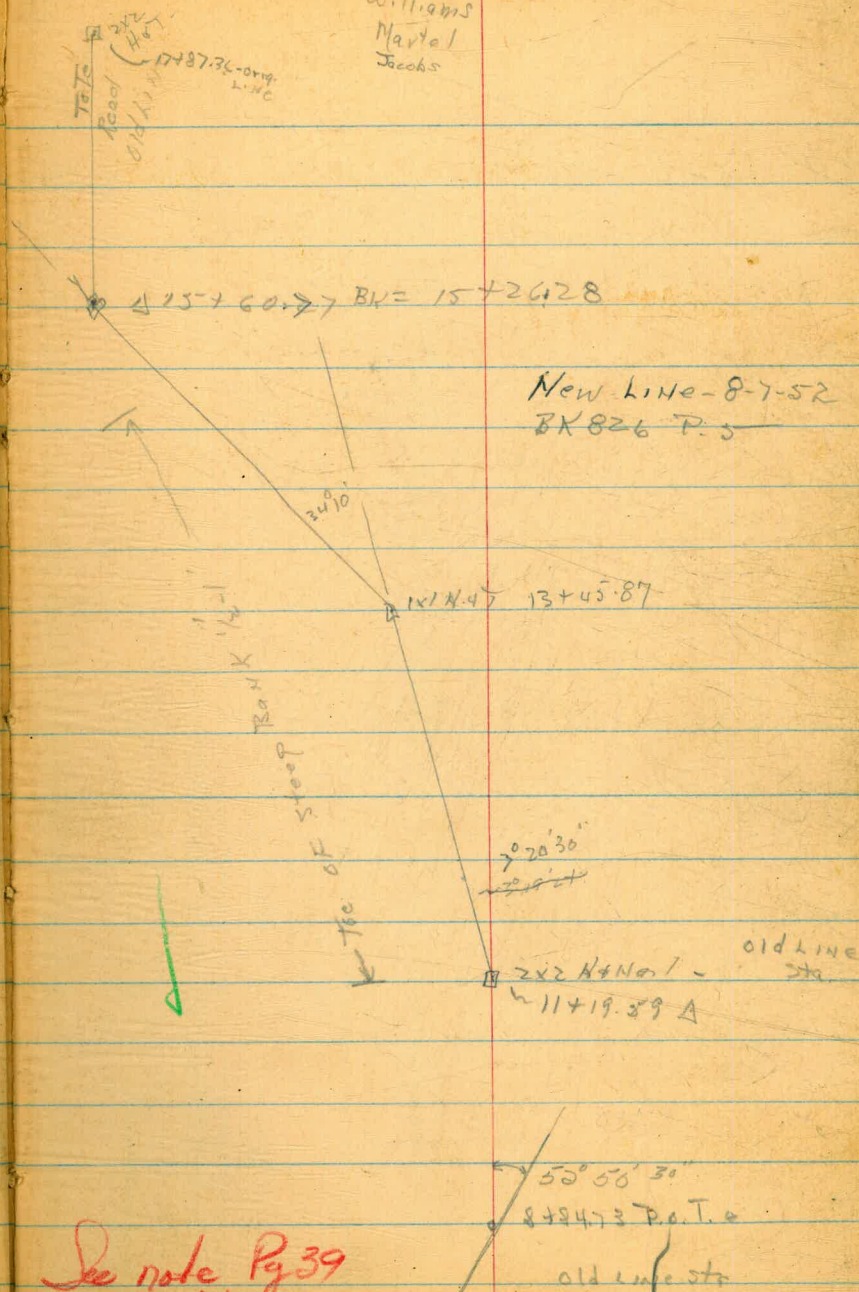
10496.63  
 11+19.59 Δ     30°50'30"  
 Δ 3°14' LT.  
 = 11+62.74 original line BK 230 P. 1

8+84.73 P.O.T.  
 = 8+61.05 BK Δ 52°50'50" LT

King  
 Williams  
 Marvel  
 Jacobs

5-21-52  
 404

40



New Line - 8-7-52  
 BK 826 P. 5

13+45.87

70°20'30"

222 N + No. 1 -  
 11+19.59 A

old line sta

52°50'50"

8+84.73 P.O.T.

old line sta

See note Pg 39  
 on 2 Feb 53



Profile Suth. Pt.  
Now aligned at Down - P. 40

T.R.M.	1.02	1946.55		1945.57
0700			1.6	1945.0
6704			1.9	1944.7
0708			16.5	1930.1
0760 Δ			11.3	1935.3
6782			9.3	1937.3
1400			10.7	1935.9
1450			8.0	1938.6
2700			9.6	1937.0
2451.19 Δ	2.56	1939.30	9.85	1936.74
			3.8	1935.5
T.P.	10.42	1946.51	3.21	1936.09
T.R.M.			0.91	1945.60

Note: Bench goes down lower

5-22-52  
King  
Williams  
Jacobs

467

41

Top casing - down 20 ft. 11





42

Corrected Stationing  
from South Portal By V.C. 26 June 52

Pt.	STATION	DISTANCE
South Portal	172+40	3028.57
202+68.57 BK		
= 218+67.69 AK	218+67.69	657.67
	225+45.25	470.82
	229+46.27	490.82
	237+95.97	→ To New 245+68









Realignment - Profile  
 629+59.12 - 637+96.26

Supersedes FB 816 - Pg 70-2

7-14-52  
 King

47

B.M.	0.98 ✓	1450.20 ✓		1449.22 ✓
630+00	✓		1.2 ✓	1449.0 ✓
630+30	✓		2.9 ✓	1447.3 ✓
630+50	✓		5.1 ✓	1445.1 ✓
630+68	✓		8.5 ✓	1441.7 ✓
631+00	✓		5.6 ✓	1444.6 ✓
631+50	✓		5.9 ✓	1444.3 ✓
632	✓		10.1 ✓	1440.1 ✓
632+09.78	✓		16.8 ✓	1439.4 ✓
T.P.	0.64 ✓	1437.93 ✓	12.91 ✓	1437.29 ✓

Top Iron Pipe - Sta. 629+59.12

27.06  
 +1.4  
 10'

Rt. of C.

-0.7  
 10'

+0.4  
 10'

-0.0  
 10'

+1.4  
 10'

-1.6  
 10'

+0.6  
 10'

-0.8  
 10'

+0.6  
 10'

-0.7  
 10'



Sully-S.V.P. Realignment Profile  
629+59.12 - 637+96.76

		1437.93		
632+50	✓		2.3 ✓	✓ 1435.63
633+00	✓		7.7 ✓	✓ 1430.2
T.P.	0.46 ✓	1426.16	12.25 ✓	✓ 1425.70
633+50	✓		3.8 ✓	✓ 1422.4
634+00	✓		9.4 ✓	✓ 1416.8
T.P.	1.00 ✓	1416.20	10.96 ✓	✓ 1415.20
634+50	✓		3.6 ✓	✓ 1412.6
634+87	✓		8.4 ✓	✓ 1407.8
635+00	✓		9.1 ✓	✓ 1407.1
635+58	✓		12.3 ✓	✓ 1403.7
T.P.	0.08 ✓	1404.83	11.45 ✓	✓ 1404.75
636+00	✓		4.5 ✓	✓ 1400.33 <del>1396.33</del>
636+50	✓		6.1 ✓	✓ 1398.73

7-10-52  
RHS

45

Lt. of P.	Rt. of P.
$\frac{+0.6}{10}$	$\frac{-0.6}{10}$
$\frac{+0.6}{10}$	$\frac{-1.3}{10}$
$\frac{+1.6}{15}$	$\frac{-2.7}{18}$ Bottom Draw
$\frac{+2.0}{15}$	$\frac{-1.0}{10}$
$\frac{+0.9}{10}$	$\frac{-2.1}{7}$ $\frac{+0.2}{13}$
$\frac{-0.3}{10}$	$\frac{+1.8}{10}$
$\frac{-0.3}{8}$	$\frac{+1.7}{10}$
$\frac{-1.5}{14}$	$\frac{+2.7}{12}$



Profile - Revision 4  
 Suth - S.V. P.L.  
 629459.12 - 637496.76

1404.83 ✓

636450 ✓

7.7 ✓

✓ 1391.1

636466 ✓

8.0 ✓

✓ 1396.8

637400 ✓

12.9 ✓

✓ 1391.9

T.P.

5-23 ✓

1397.95 ✓

12.11 ✓

1392.72 ✓

637436 ✓

6.3 ✓

✓ 1391.65

637450 ✓

7.8 ✓

✓ 1390.15

End Top 1x1 hub  
 637496.76

13.05 ✓

1384.90 ✓

1384.84 ✓

on hub

+2.5  
 10

-0.5  
 2

+2.0  
 10

7-14-52  
 King

46

47

P.L.

-1.4  
 13

+1.9  
 10

0.8  
 10

-1.0  
 5

+2.0  
 10

-1.8  
 10

+1.8  
 10



New Alignment  
Suth. P.L.

Lt

Rt.

36+06.71

34+28.39 Δ

33+07.04

P.O.T.

30+86.25

Cont'd From BK 825<sup>3</sup>

Page 8

King 8-12-52

Note: From 35+28  
to sta. 36 - Solid Rock  
Bldrs. 5'-8' Lt. &  
& almost straight up  
30'-50'

To Suth. Dam



HOT

87.

36+06.71

Q.P.L.

35+50

7' old hub

Co. Rd.

35+28

14'

25° 57' 15"

34+98

Detail  
Pg 76

x - 34+28.39 Δ

x on Bldg

To Co. Rd.

33+50 ~

33+07.04 P.O.T.  
old hub

Note: sta. 32-33+50  
Rock outcropping  
& Bldgs both  
sides.

38° 14'

30+86.25 old hub

Cont'd From BK 82

May be place for  
Curve - 80' Tangent  
with 30+86.25 PT



Alignment  
Suth. P.h.

Lt.

Rt.

old hub  
43+10.97 A

52° 55' 30" Lt.

old hub  
39+80.43 A

12° 27' 30" Lt.

A  
37+86.26 - old hub

21° 08' Lt.

37+04

Began Tote Rd. See x-sections

36+06.71 A old hub

45° 06' 15" R.

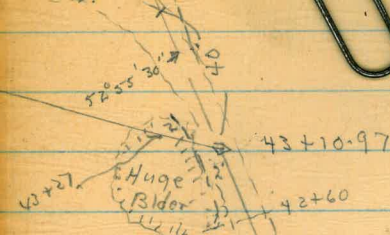
old sta. 36+06.12

King 8-12-52

Hot

40

Tote Rd.



Huge  
Boulder

Brush & Boulders

12° 27' 30"

39+80.43

21° 08' Lt.

37+86.26

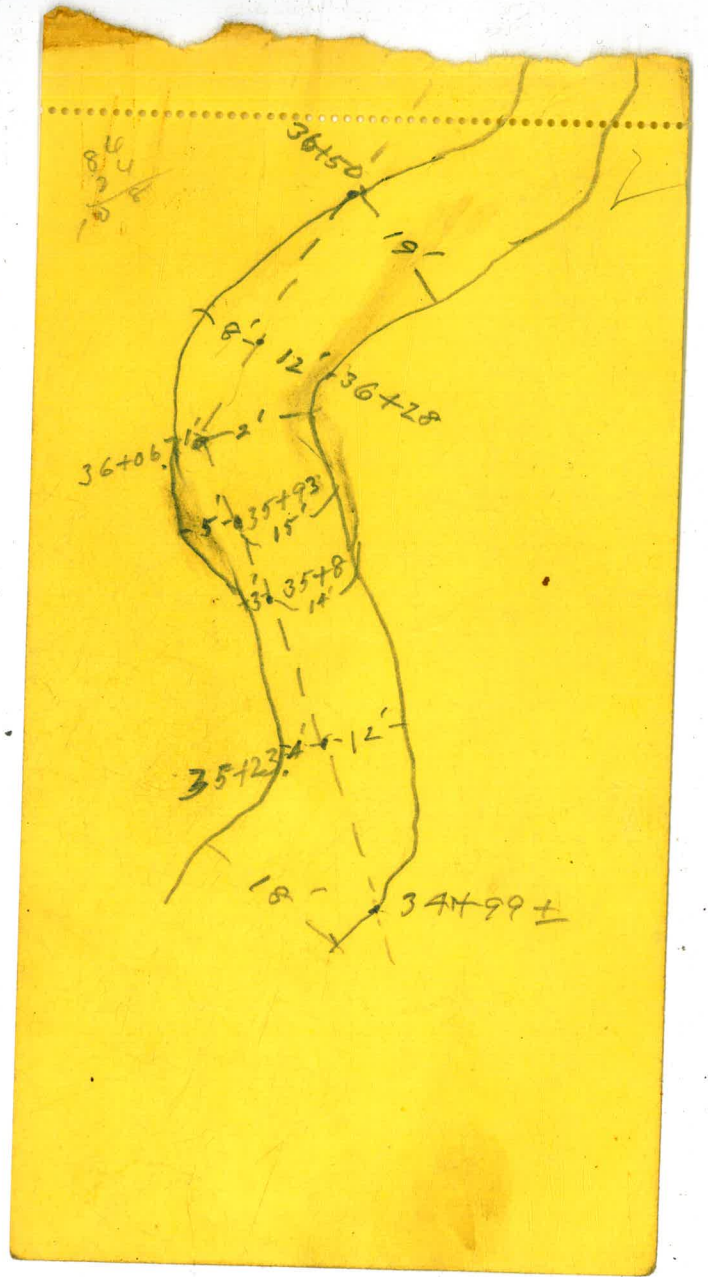
37+04 - Start Tote Rd.

45° 06' 15"

36+06.71









Syth. P.L.  
Alignment

50+48.33 old hub P.O.T

49+33.98 old hub P.O.T

45+14.00 old hub P.O.T

44+20.42 old hub P.O.T

43+10.97  $\Delta$

52°55'30"  $\Delta T$

King 8-12-52

49

Uniform Slope

50+48.33

49+33.98

45+14.00

44+20.42

43+10.97



Good Soil -

Very brushy -

45°

Gate Rd





Suth. P.L.  
Alignment

See BK 828 / 29  
W.R.

P.O.T.

P.O.T.

54+50.73 old hub. P.O.T.

53+14.47 old hub. P.O.T.

51+62.60 old hub. P.O.T.

50+48.33 P.O.T.

KING - 8-13-52

COOL C

58

JACOBS

9-15-52

Large live oak trees & thick poison oak  
Good Soil - Uniform Slope

End of Brush

□

□

□

FL

□

Proposed

□

□

54+50.73

53+14.47

51+62.60

50+48.33





396+52.14 to

SOUTH PL  
REALIGNMENT  
446+83.17 BK (446+71.62 Ah.)

cont. from page 14

398+77.88 EC.

28' ~~118'~~  
 $\Delta 6^{\circ} 29' R.$

PI. 397+65.12

R. 2000.

T. 112.98

L. 225.74

D. per H. .8594

396+52.14 BC.

JACOBS

6004

51.

9-15-52

PIPE 26' BELOW GROUND.

1" PIPE

6" LINE 20' FROM IRR. DIRT. ROAD

401+45 0.5' BELOW GROUND

401+88

H&T EC

RR 1X1 H&T

200'

RR 1X1 H&T

100'

PI

H&T 397+65.12

BC

H&T



SOUTH.  
P.L.  
REALIGNMENT

431+49.30 E.C.

$\Delta 7^{\circ}52'30''$

P.I. 430+03.06

T. 137.66

R. 2000'

L. 274.90

428+65.40 B.C.

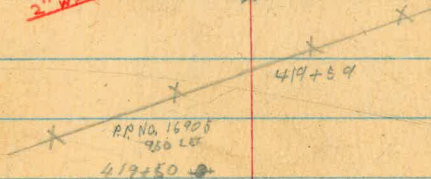
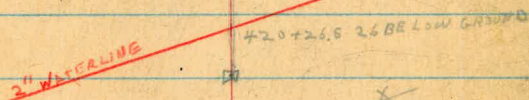
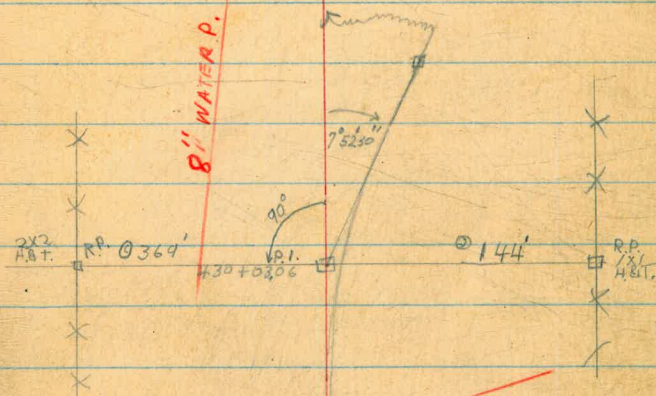
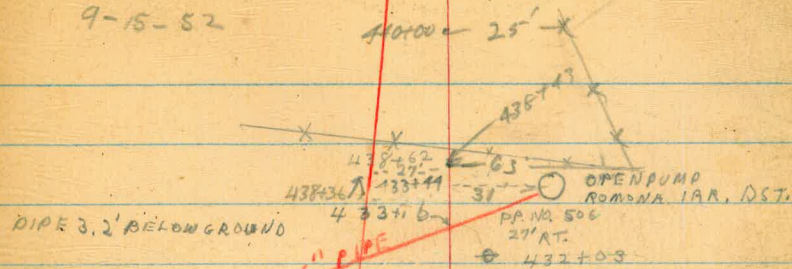
D. PER H. .8594'

JACOBS

9-15-52

6006

52



P.P. 13' AT  
408+31



SOUTH  
P.L.  
REALIGNMENT

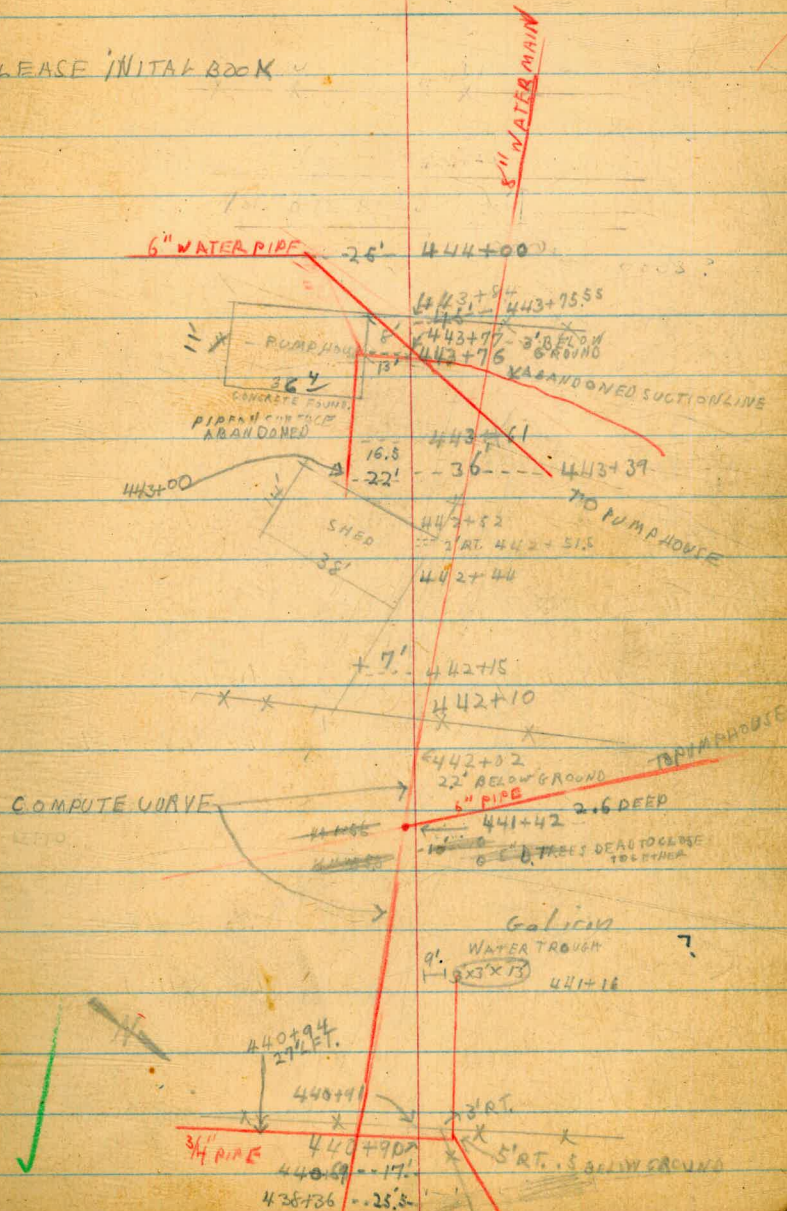
JACOBS

9-15-52

600L

531

PLEASE INITIAL BOOK





SMITH PL  
REALIGNMENT

JACOBS

COOL

54

9-15-52

Supercedes Pg 18.

446+1162 AHEAD

446+837 F.C. BACK

$\Delta 11^{\circ}45'$

P.I. 446+29.90

T. 134.35 154.35

R. = 1500

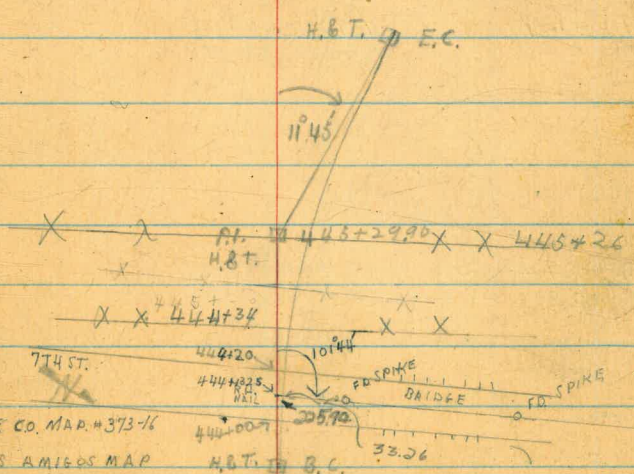
L. 307.62'

D PER H. 1.1459'

443+785.55 B.C.

SEE CO. MAP # 373-K

LDS AM 1605 MAP



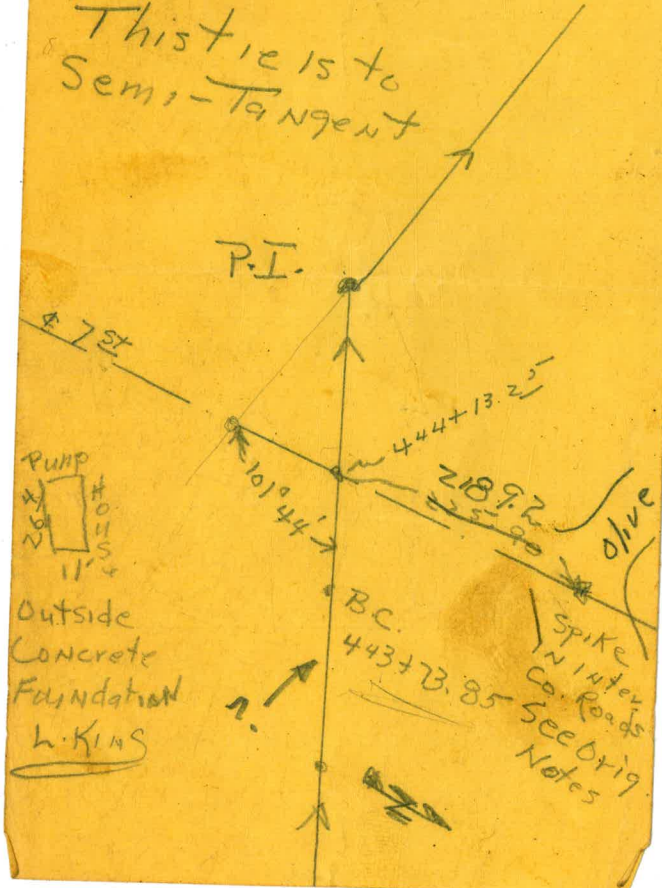


Ties at

7<sup>th</sup> - 04 New Alignment

Williams 9-23-52

This tie is to  
Semi-Tangent





REALIGNMENT  
 SOUTH BRAD P.L.  
 STA 462+25.33  
 TO 469+03.17 BK = 469+03.09 AH.

SEE PG 20

Revision Shown in Red  
 Entered by V.C. 2 Feb '53

△ RH. NAIL  
~~467+06.35 BK = 467+03.09 AH.~~  
~~469+04.73 BK = 469+03.17 AH.~~  
 468+51.56 BK = 468+48.44 AH

7°06'38" RT

△ RH. NAIL  
~~467+04.73~~  
 466+50

7°10' LFT.  
 7°07'30" Lt  
 7°07'30" L

△ RH. NAIL  
~~464+29.70~~  
 464+27.89

7°10' LFT.  
 7°07'30" Lt

△ RH. NAIL  
 462+25.33

NEW ALIGNMENT

7°07'30'

7°10' RT.

9-12-52

JACOBS

COOL

55

\*Plot all angles as:  
 $\tan^{-1} \frac{25}{200} = 7^{\circ}07'30''$   
 Jw.

469+03.10 AH in Field

Correction  
 469+04.73 BK =  
 469+03.17 AH

7°06'38" RT.  
 RH. NAIL A 469+05.35 BK.  
 469+03.29 AH.

468+51.56 BK = 468+48.44 AH

7°10' LFT.  
 RH. NAIL X X 467+04.73  
 466+50

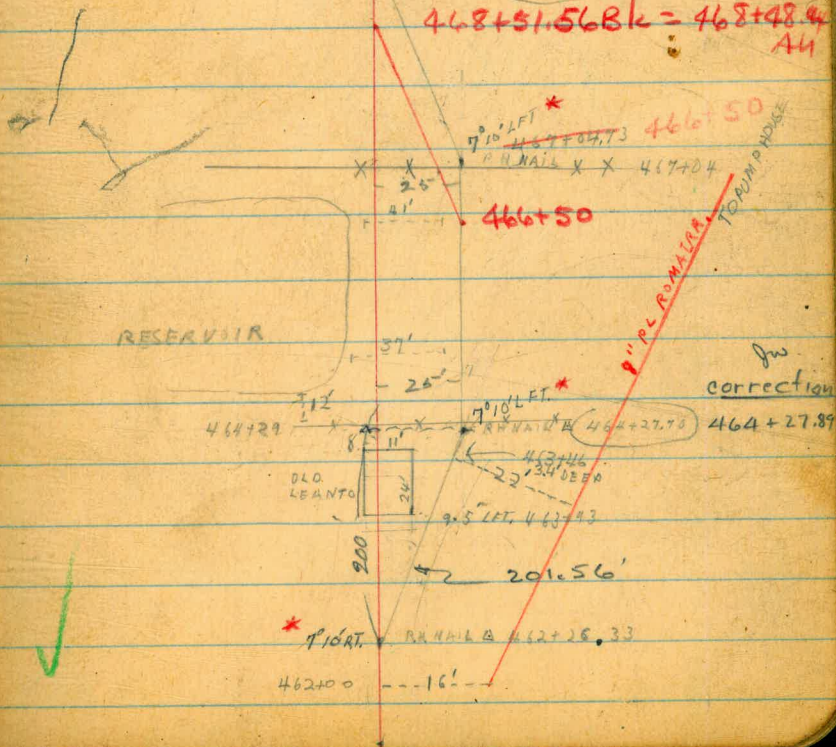
RESERVOIR

464+29.70  
 7°10' LFT.  
 RH. NAIL X 464+27.75  
 464+27.89

DLO LEANTO  
 200  
 9.5 LFT. 463+43

\*7°10' RT.  
 RH. NAIL B 462+25.33

462+00 --- 16'





Re Alignment  
 Suth P.L. Near Ramona  
 Stg. 490+07.01 - 496+10.92 Across

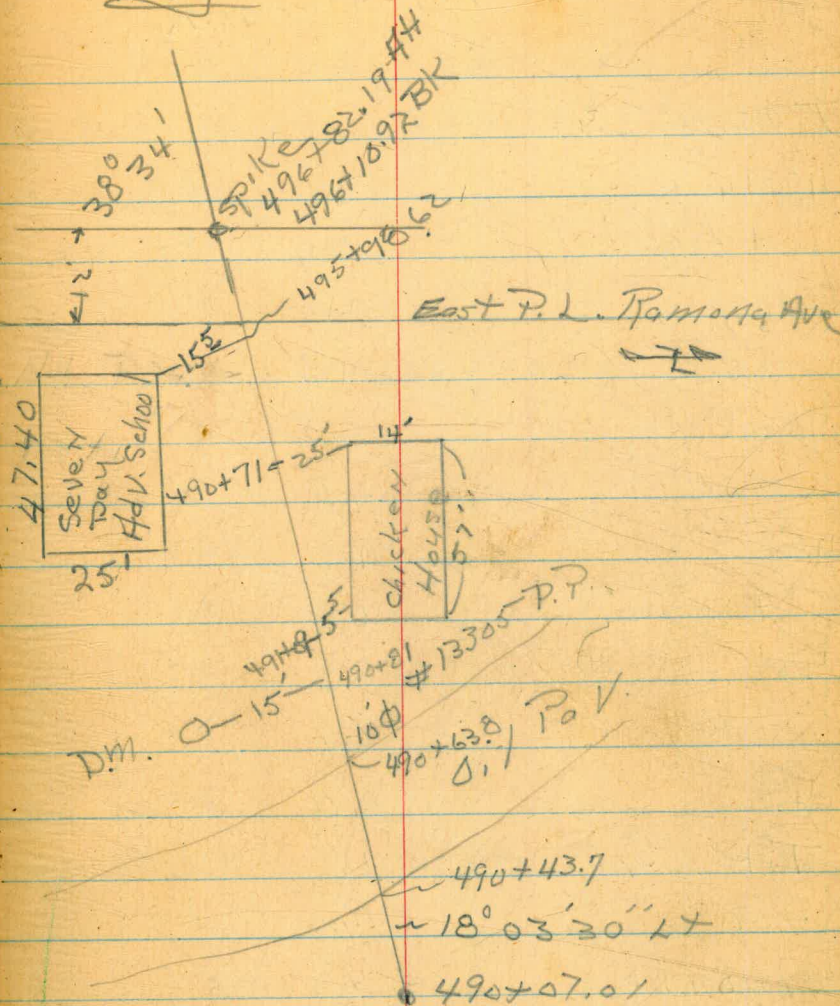
496+82.19 4H  
 496+10.92 BK =  $\Delta 38^{\circ} 34'$  Ramona St.

~~VOID~~  
 See Page 58

490+07.01  $\Delta 18^{\circ} 03' 30''$

9-25-52  
 King

56.



Note: See Pages 24-77  
 For Ties

1.50 Acre given to school by Kunkel  
 No Survey made



Realign.

490+07.01-4964 10.92

	B.S.	HI	FS	ELEV	
T.B.M.	3.79	1415.29		1411.5	
490+43.7			3.6	11.7	0.1
+63.8			5.4	9.9	"
491			4.3	11.0	
+50			4.9	10.4	
492			6.5	8.8	
+50			7.8	7.5	
493			9.6	5.7	
+50			10.8	4.5	✓
494			8.6	6.7	
+50			6.9	8.4	
495			8.0	7.3	
T.P.	5.66	1410.79	10.16	1405.13	IRON Pipe 3, E Col lot
+50			4.2	6.6	
496+105.2 BK			4.3	1406.5	
CK to 498+00			1.05	1409.74	
			<del>5.66</del>	<del>1405.13</del>	1409.7

9-25-52  
King

57

Nail A 490+07.01

Replaces - Pg. 36 - FB 816

SEE Pg 59

See old Profile







Kukels.

Suth-P.h.  
Profile New Line

KINS - 5-6-53

59

.50

✓

B.M.

5.50 ✓

1417.00 ✓

1411.50

B.M. 1 - 490 + 02.0'

490 + 45.1 ✓

✓

5.1 ✓

✓

11.9

Edge 0.1' Pav.

490 + 67.59 ✓

✓

6.8 ✓

✓

10.2

Edge 0.1' Pav.

491 ✓

✓

5.2 ✓

✓

11.8

750 ✓

✓

5.3 ✓

✓

11.7

T.P.

2.12 ✓

1413.89 ✓

5.23 ✓

✓

1411.97

492

✓

3.2 ✓

✓

10.7

750 ✓

✓

4.7 ✓

✓

09.2

493 ✓

✓

6.3 ✓

✓

07.6

450 ✓

✓

7.8 ✓

✓

06.1

494 ✓

✓

8.9 ✓

✓

05.0

✓



Suth. P.L. - Re loc.

141389

494750 ✓	9.9 ✓	✓	04.2
494797 ✓	10.1 ✓	✓	03.8
494797 ✓	10.6 ✓	✓	03.3
494797 ✓	10.2 ✓	✓	03.7
495 ✓	8.2 ✓	✓	05.7
△ 49510655 ✓	8.6 ✓	✓	05.3
450 ✓	8.7 ✓	✓	05.2
496 ✓	8.3 ✓	✓	05.6
491+51.26 BX ✓	7.53 ✓	✓	140631 14665
494+82.19 HH. ✓			

KING - 5-6-53

60

East Fl. 16" C.I.P.

West Fl. 16" C.I.P.

⊕ Spike

checked & Reduced 5-19-53. Qw.



























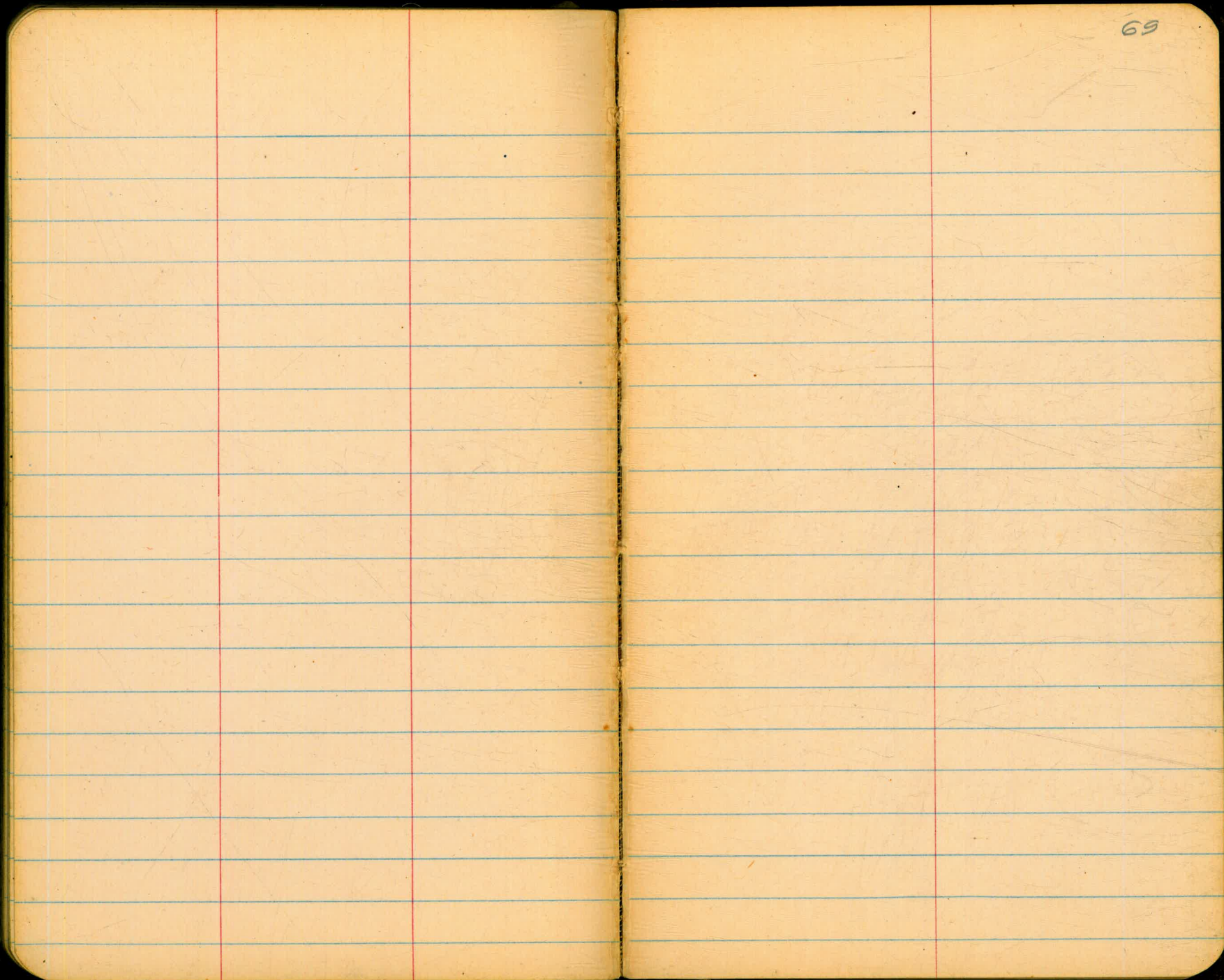






























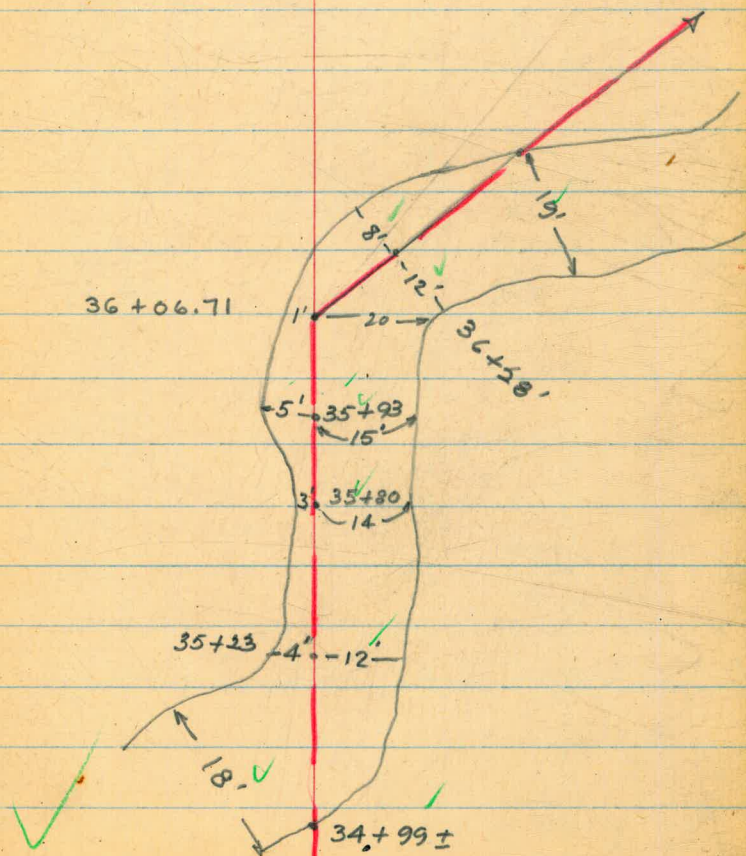








From a sketch by L. Hill  
on 1/5/53









Boomer Line  
Suth. S.V.  
337+90-397+6512

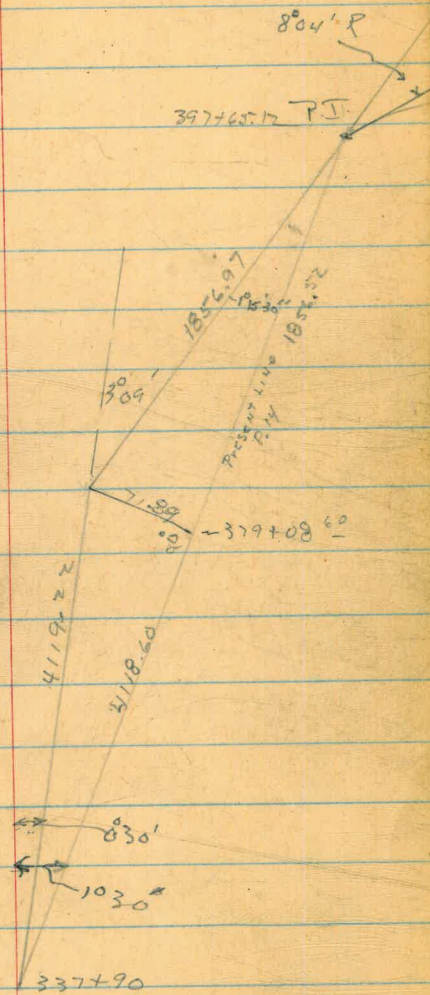
No. Portal 144+40 AH.  
So. Portal 172+40 ~~PH~~

12-13-51  
King  
West  
Williams

CL

78

VOID L.R.





No 7  
So.

17037

17798.90 - 37°02'30" LX

21496.00 - 44°14'30" LX

23807.64 - 23°17'30" LX

25774.54 1°25' LX

27736.15 - 14°19'10" LX

27761.29 - P.O.T.

28741.14 Δ 30°09'30" RT

30786.25 30°14' RT

29x  $\frac{9533}{4118}$   
3247

443+75.55  
+ 154.35  
44529.90





1945.57  
1449.22

446+8317

447+42.80  
71.17

446+71.63

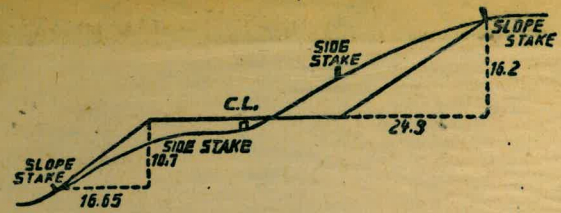
502+67.91  
3.03  
15

Please Return to  
City of San Diego Water Dept.  
Room 903 Civic Center

443+88.25  
12.54  
4440.119

192.59  
24.33  
2184.92

1947.226  
1947.5795  
444.62



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.  
SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.20	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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