

1552

PASTS

LEVEL BOOK

No. 3815

1552

MICROFILMED
DEC 24 1964

ENGINEERING DEPARTMENT
CITY OF SAN DIEGO
CALIFORNIA

MADE IN U. S. A.

20.34
15.36
35.70
2.56
36.75
77
35+00
30+75
2.209
512
1024
20.34
88

OFFICIAL
MUNICIPAL SPECIAL ELECTION

are c
No. NOVEMBER 5, 1946
INSTRUCTIONS TO VOTERS

vote on any measure, stamp a cross in the voting square after the word "No." All marks, except the cross are forbidden. All distinguishing marks and make the ballot void. If you wrongly stamp, tear or deface the ballot, the Inspector of Election and obtain another.

5
22
218
36
614

PROPOSITION NO. 1: Shall The City of San Diego transfer and assign to the Metropolitan Water District of Southern California the City's rights and obligations under that certain water delivery contract on file in the office of the City Clerk as Document No. 281567, between the United States of America and The City of San Diego, dated February 15, 1933, relating to the waters of the Colorado River?

618
5

PROPOSITION NO. 2: Shall The City of San Diego transfer and assign to the San Diego County Water Authority the City's rights and obligations under that certain Lease-Contract on file in the office of the City Clerk as Document No. 356879, between the United States of America and The City of San Diego, dated October 17, 1945, granting the City a lease of the aqueduct being constructed by the United States Navy from San Jacinto Tunnel to San Vicente Reservoir, except the City's obligation under Article 2(a) of said Lease-Contract to construct a water treatment plant and other works as contemplated by the City bond issue approved April 17, 1945, and the obligation under Article 2(c) of said Lease-Contract that the City supply all Government agencies within the area with an adequate supply of water at nondiscriminatory rates, and on condition that if the Authority shall cease to be a portion of the corporate area of the Metropolitan Water District of Southern California, the said Lease-Contract shall revert to the City, subject to all modifications, defaults or acts of the Authority, affecting the said Lease-Contract.

Camino del Rio

60126

1552-1

Roll

3576

6070

6086

1552

MICROFILMED

DEC 24 1964

ENGINEERING DEPARTMENT
CITY OF SAN DIEGO,
CALIFORNIA.

MADE IN U. S. A.

$$\begin{array}{r} 20.34 \\ 15.36 \\ \hline 35.70 \end{array}$$

$$\begin{array}{r} 2.56 \\ 15.36 \\ \hline 17.92 \end{array}$$

$$\begin{array}{r} 2.56 \\ 12.80 \\ \hline 15.36 \end{array}$$

$$\begin{array}{r} 102.4 \\ 10.88.00 \\ \hline 113.28 \end{array}$$

$$\begin{array}{r} 36.75 \\ 30.77 \\ \hline 67.52 \end{array}$$

$$\begin{array}{r} 20.34 \\ 10.88 \\ \hline 31.22 \end{array}$$

$$\begin{array}{r} 7.5 \\ 4.9 \\ \hline 12.4 \end{array}$$

$$\begin{array}{r} 20.34 \\ 10.88 \\ \hline 31.22 \end{array}$$

$$\begin{array}{r} 4.48 \\ 35.70 \\ \hline 40.18 \end{array}$$

Our Leather Bound Engineers Note Books are carried in the following rulings:

No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.

No. 382 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 4x4 to the inch, Center Line Red.

No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 8x8 to the inch, Center Line Red.

No. 385 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 8 vertical and 4 horizontal lines to the inch, Center Line Red.

We also carry the Note Books listed above, bound in extra strong Fabri-Hide (otherwise the same quality of book,) which can be furnished at a somewhat lower price.

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THE FREDERICK POST CO.

ENGINEERING and DRAFTING SUPPLIES

P. O. Box 803

CHICAGO

2-7-38
Miller
Walker
Bliss

Carmino Del Rio ^{Indexed}
Culvert Profiles ^{C.S.K.}

42" Culvert #9 changed from sta 66+15 ϕ
90.00 from ϕ
to 65+80 = ϕ Ex 36" Conc. Pipe Culvert

T.P. Nail in Pole	3.93	2 259	18.66	26' Rt. at Sta 66+24
50' RT			8.6	14.0
26' Rt. = S End of 36" Culvert.			8.80	13.8 F.L.
26' " S. side 8" Head wall 7' long			3.58	19.01 Top
25.33 RT = N. " " " "			3.58	19.01 Top
(S. side Road 25.33 RT = W of Head wall			4.6	18.0 Roadway
ϕ			4.9	17.7 "
(W. side Road 2.33 Lt = S. " " 8" Head wall			4.9	17.7 "
(N. End. ex. 36" Pipe 3.0 Lt = N. side 8" Head wall 7' long			3.43	19.16 Top
			9.40	13.2 F.L.
16' Lt.			9.0	13.6
19' Lt.			7.7	14.9
30' Lt.			8.0	14.6
50' Lt.			7.2	15.4

N.B. Ex. 36" Pipe to be removed, and
used at Culvert #8.

7x7 Box Culvert #1, $\Delta 45^\circ 00'$ from ϕ ✓ 1

Station 47+92 ϕ				
ϕ Profile				17' Lt of Sta 50+21
B.M. Nail in Pole	5.95	31.27 ✓	25.32	
70' At ϕ			9.9	21.4
37' At " "			11.0	20.3
28' " " "			8.8	22.5
22' " " " S. side Rd			4.6	26.7
ϕ			5.1	26.2
17' Lt of ϕ			5.0	26.3
20' Lt " "			12.8	18.5
50' Lt " "			13.4	17.9
75' Lt " "			13.9	17.4

Culvert #8 No change except Diam = 36"

Culvert #7 No change

Culvert #6 No change

This line in Camp Grounds

Culvert #5 station 29+71.6 original line

at 90°-13-30 E. to N. of orig ϕ = $\frac{1}{2}$ of Row, Large

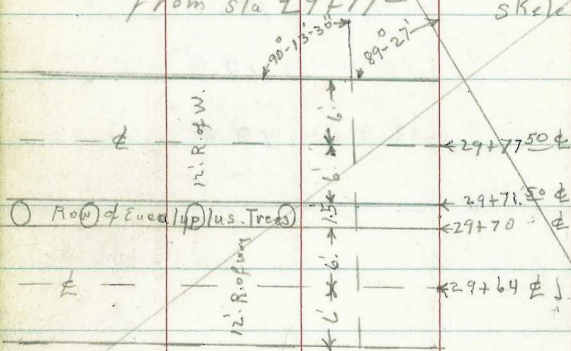
Eucalyptus Trees.

should be at 89°-27' E. to N. from

Sta. 29+64 New ϕ or 89°-27' E. to N.

from Sta 29+77.5 sketch Below

ϕ Levels for these
culverts same as
F.B. 1528 - P. 69



original ϕ
0°-46'-30"
New ϕ
Abandoned

Alternate Location for Culvert #5

Station 28+75

This line in Camp Grounds. Between Rows of Trees
does not Hit any permanent improvements

$\frac{1}{2}$ Culvert #5 90°-00' Sta 28+75

TP Nail	2.33	19.85	17.52	Elec Pole 79014
0+00 = S. edge 100' R of W.			4.0	
0+05			5.5	
0+44			6.4	
0+46 S. edge Rd			5.0	
0+50 = ϕ			5.0	
0+78 N. edge Rd			5.1	
0+85			7.0	
1+00 = N. edge R of W.			7.1	
1+50			7.3	
2+00			7.8	
2+50			7.4	
3+00			7.8	
3+50			8.5	
3+85			8.4	
4+05			10.5	

Abandoned

OK: Alternate Location Culvert 5. ✓

This line in Camp grounds bet. Rows of Trees
Does not hit any permanent improvements

90° 00 from $\frac{1}{2}$ at Sta 26+62

TP Nail	1.21	18.73 ✓	17.52
0+00 = S. line 100. R of W.	7.0	11.7	
0+15	7.7	11.0	
0+22	6.1	12.6	
0+39	6.4	11.9	
0+44 s. edge Rd	4.9	13.8	
0+50 = $\frac{1}{2}$	4.9	13.8	
0+75 N. edge Rd	5.2	13.5	
0+80 bottom of drainage ditch	8.3	10.4	
0+90	6.3	12.4	
1+00 = N. line R of W	6.3	12.4	
1+50	6.9	11.8	
2+00	7.1	11.6	
+50	7.2	11.5	
3+00	6.5	12.2	
+20 N. end Camp ground. S. end. Grain field			
+50	6.7	12.0	
4+00	7.5	11.2	
+40	8.6	10.1	

Elec Pole
79014

4+67	8.6	10.1	
5+00	6.1	12.6	
5+30 N. Side Grain field S. Side Willows			
+50	4.0	14.7	
T.P.	3.80	18.43 ✓	4.10
6+05		5.5	12.9
6+23 = a wash cut		9.7	8.7
6+32		6.6	11.8
6+40		7.2	11.2
6+57 S. side River bottom	11.5	6.9	

18.73

Culvert #4 ✓

 $\Delta 61^{\circ} 27'$ E to North at sta 20+55 ϕ .

T.P. Nail	3.30	16.70 ✓	13.40	* Elev Pol: 79010
87 S. of ϕ		9.3	7.4	
57 " " "		8.6	8.1	
19 " " "		6.2	10.5	
10 " " " = s. edge Rd.		5.3	11.4	
ϕ		5.3	11.4	
23 N. of ϕ = N. edge rd.		5.7	11.0	
28 " " " bottom of drainage ditch		8.0	8.7	
35 " " "		5.6	11.1	
57 N. of ϕ		5.6	11.1	

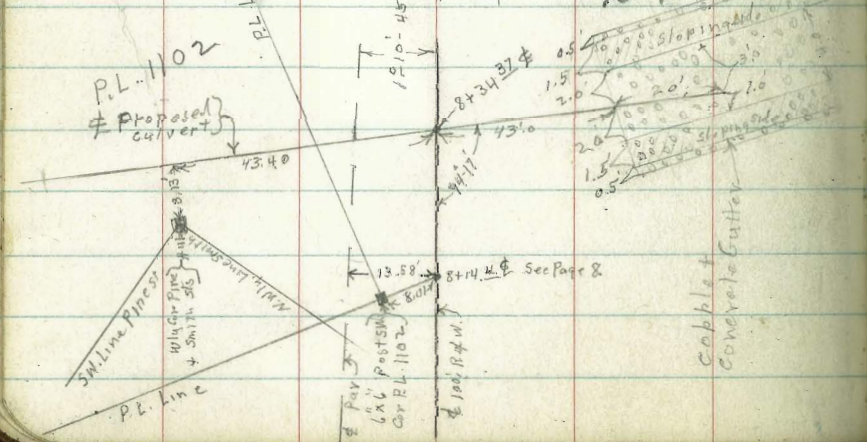
Culvert #3 ✓

 $\Delta 60^{\circ} 40' 30''$ E. to N at. sta 12+65 ϕ

BM 2A	2.00	16.81 ✓	14.81	49.5' RT. + Sta 8+35
57.35 S. of ϕ = S. Line R. of W.		8.4	8.4	
40 " " "		8.0	8.8	
33 " " " = s. edge Rd.		4.6	12.2	
00 = ϕ		5.0	11.8	
0+05 = N. edge Rd.		5.8	11.0	
0+12 Drainage ditch		9.7	7.1	
0+19 " " "		9.7	7.1	
0+21		6.3	10.5	
0+30		6.6	10.2	
0+50		6.4	10.4	
1+00		6.0	10.8	
1+65		5.8	11.0	
1+78 S. side river		10.7	6.1	

B.M. #2 A.	2.95	17.76	14.81	495 Rt of Sta 8735
63' S. of ϕ 100' R of W				
W. Bank. cobble gutter	3.40	14.36		
+1.5 = W. side Bottom cobble gutter	4.81	17.95		
+2.5 = ϕ Culvert. product				
+5.5 = E. side bottom cobble gutter	4.77	14.99		
+7.0 = E side cobble gutter Bank	3.27	14.49		
43' S. of ϕ 100' R. of W.				
E. bank. cobble gutter Top	3.40	14.36		
+1.5 = E. " " bottom	5.17	17.57		
+3.5 = ϕ " " "				
+5.5 = W " " "	5.16	17.60		
+7.0 = W " " Top.	3.64	14.17		

42' S. of ϕ				
3.5 W of ϕ culvert	3.9	13.9		
ϕ " "	3.9	13.9		
3.5 W of ϕ " "	3.9	13.9		



ϕ 100' R of way	5.0	17.8		
11' N of ϕ	6.3	11.5		
43.5 N of ϕ	7.3	10.5		
70' N of ϕ	7.8	10.0		
75' N of ϕ , S. side of River	10.6	7.7		
Culvert #1 ✓				
at 90°-00' to ϕ 100' R of way ϕ Sta 4+50				
T.P. Hub	4.85	19.60 ✓	14.75	ϕ at 4+35
50' S of ϕ		+13.2	34.8	
20' S of ϕ		+1.4	21.0	
15' " "		-1.3	18.3	
8' " "		-2.0	17.6	
6' " "		5.0	14.6	
ϕ 100' R of way 1	5.0	14.6		
12' N of ϕ	6.8	17.8		
18' N of ϕ = ϕ Pav.	6.8	17.8		
36' N " "	6.9	17.7		
39' N of ϕ	6.9	17.7		
50' N of ϕ	15.0	4.6		

Realignment of Proposed Pavmt.
 from 0+00 to 14+74.57 Δ

3+00

+50

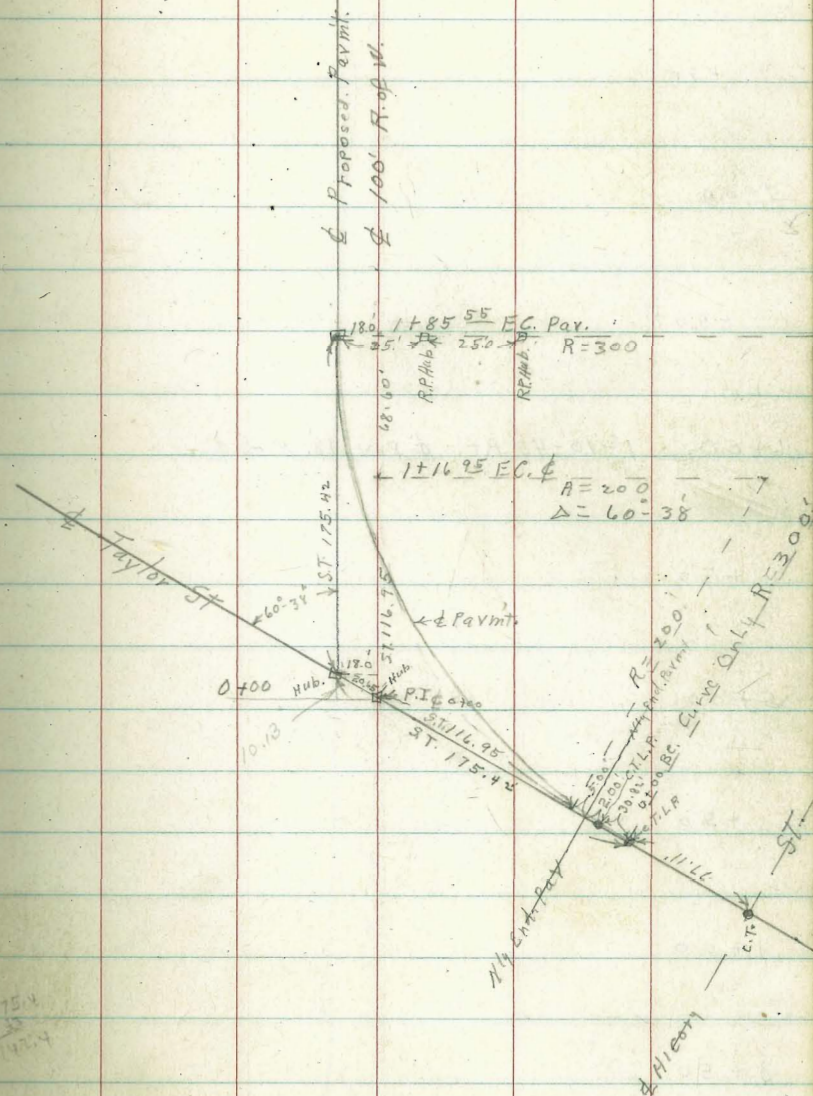
2+00

1+85.55 E.C. Pav. 18' N. of ϕ . New

1+16.95 E.C. ϕ old.

0+00 P.I. ϕ .

175.4
 147.4



8+00

+50

7+00

+50

6+00 Δ $1^{\circ}10'45''$ RT. ϕ Pav. 18' N. of ϕ

+50

5+00

+50

4+00

3+50

0.18'

ϕ Pav.
 ϕ 106' R. of W.

18'

+7451 Δ Hub. Δ 2° 30' - 18"

+50

14

+50

13

+50

12

+50

11

+50

10 + 00

+50

9 + 00

8 + 50



← 1° 19' - 33"

→ 1° 10' - 45"

100 R. of W.
100 R. of W.

100 R. of W.
100 R. of W.

3.58

8 + 46 - 15 28 - R =

culvert. #13 Sta 73+26

Levels taken at 90°-00' from S. Branch.

9

BM, U.S.C. & G.M.	6.40	25.46	19.06	19.5 Rt. of Sta 77+71 ³⁰
50' S. of S. Branch. ϕ		6.1	19.4	
25 " " " "		5.5	19.0	
23 " " " "		4.7	19.8	
18 " " " "		5.1	19.4	
ϕ S. Branch		5.3	19.2	
15' N. of ϕ S. Branch		5.4	19.1	
20 " " " "		5.9	19.6	
50 " " " "		5.7	19.8	
100 " " " "		5.7	19.8	
150 " " " "		6.0	19.5	

4-6-38
Miller
Walker
Bliss

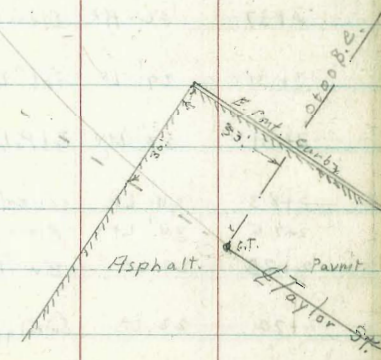
Camino Del Rio
Topog

Indexed
C.S.K.

1+85 ⁵⁵	F.C. station from E.C. East	
3+17 ⁴⁸	E.C. for Curve only	
3+17	37' Lt	River bank
3+17	28' Lt	B.W. Fence
2+75	46' Rt	Eucalyplus
2+67	23' Lt	Elce Guy Pole Dead Man
2+67	13' Lt	Elce Guy Pole
2+62	51' Rt	Elce Pole #79002
2+60	36' Lt	River bank
2+60	38' Lt	B.W. Fence
2+60	26' Lt	Tel. Guy Dead Man
2+60	13' Lt	Tel Pole #D32529T
2+00	54' Lt	B.W. Fence Wire
1+80	47' Rt	Eucalyplus
1+60	45' Rt	"
1+46	47' Lt	Sycamore
1+32	30' Rt	Eucalyplus Tree
1+15	33' Rt	"
0+97	25' Rt	"
0+89	23' Rt	Elce pole #79001
0+85	22' Rt	Eucalyplus Tree - 18' Rt to Elce Guy wire deadman
0+84	32' Rt	"
0+70	31' Rt	"
0+64	26' Rt	"
0+57	31' Rt	"
0+53	24.5' Rt	Elce Pole #P. 4-399

0+00 B.C. for Curve Only

P.L. Hub.



6+00	19' Lt.	Top Bank	
6+00	$\Delta 1-10-45$	RT.	
5+62	16' Lt.	Top Bank	
5+62	24' Rt.	Ele Pole #79004	
5+62	20' Lt.	Ele Co Guy Pole	
5+54	36' Lt.	Ele Co Dead Man Guy	
5+54	30' Lt.	B. W. Fence	
5+40	21' Lt.	Tel Pole	
4+56	29' Lt.	B. W. Fence	
4+56	¢	Existing 12" Culvert	
3+47	19.3 RT.	Ex. M.H	
3+38	23' Lt.	Ele Guy Pole	33' Lt. Ele Dead Man
3+37	32' Rt.	Ele Pole #79003	
3+35	29' Lt.	Tel Dead Man	
3+31	23' Lt.	Tel Pole #32530	
2+83	24' Lt.	Eucalyptus	
2+75	34' Lt.	River Bank	
2+75	29' Lt.	B. W. Fence	
2+70	22' Lt.	Eucalyptus	
1+85 ⁵⁵		E. C. Hub.	

6	9+42	49' RT	Elec Pole # 79007
6	9+16	3' RT	B.W. Fence
5	8+91	52' LT	B.W. Fence
	8+91	28' LT	Pepper Tree
	8+77	2' RT	Tall Palm
	8+69	10.5' RT	Tel Dead Man Guy
	8+53	1' RT	Tall Palm # D-36 502-T.
	8+50	9' RT	Tel Pole
	8+44	29' LT	B.W. Fence
	8+03	54' RT	Tall Palm
	7+95	30' LT	Pepper Tree
	7+90	47.4 B.W.	Fence + Top Bank
	7+65	41' LT	B.W. Fence + Top bank
	7+65	59' RT	Elec Dead Man Guy
3	7+65	46' RT	Elec Pole # 79005
	7+25	50.5' RT	M.H. sewer
	7+25	43' RT	M.H. water
	7+33	2.0' LT	Tel Pole # D-36 501-T.
	7+00	23' LT	Top bank
	7+00	17' LT	B.W. Fence

17+00 30' Lt B.W. Fence

16+00 29' Lt B.W. Fence

14+75 28' Lt B.W. Fence

14+74⁵⁷ Equation Δ 2° 30' 18" Lt. F. B. 132V-72
 14+74⁷⁵ 1528-72

14+41 21' Rt Elec Pole # 79009

13+50 22' Lt B.W. Fence

12+50 16' Lt B.W. Fence

12+06 8' Culvert

11+79 11' Lt Eucalyptus

11+51 8' Lt "

11+50 11' Lt B.W. Fence

11+50 37' Rt Elec Pole # 79008

11+20 30' Lt Eucalyptus

10+00 2' Lt B.W. Fence

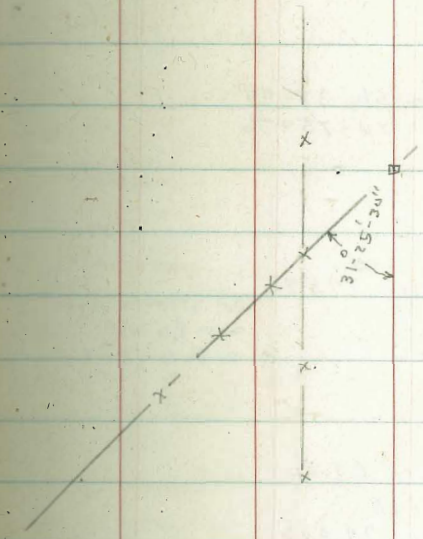
9+47 9' Lt Tall Palm

Nail Top.
 Fence Post.

30.17

39.62 Track. Elec Pole # 79009

24+00	36 Lt	B.W. Fence	Bet. 23+60 to 24+00
			From 10 to 50' RT
			7. Eucalyptus
			of 7. Large Eucalyptus Trees.
23+40	9' RT	Elec Pole	# 79012
23+00	33' Lt.	B.W. Fence	16' RT. B.W. Fence E. End
23+01 ¹⁰	P.O.T. Hub.	Nly Line Old Town.	FB 1528-73
22+67	45' Lt.	Euc Tree	
22+56	45' Lt	"	
22+45	46' Lt	"	
22+27	34' Lt.	B.W. Fence	
22+00	17' RT	B.W. Fence	
21+00	17' RT	B.W. Fence	
21+00	32' Lt.	B.W. Fence	
20+54	18' RT	W. End. B.W. Fence	
20+54	12' RT	Elec Pole	# 79011
20+69	13' RT	Elec Guy Pole	
20+03	13' RT.	Elec Dead Man Guy	
20+00	30' Lt	B.W. Fence	
19+00	32' Lt.	B.W. Fence	
18+00	31' Lt	B.W. Fence	
17+47	16' RT	Elec Pole	# 79010.



61
Bet. 28+00 to 29+00
from 40' to 50' Lt.
5. Eucalyptus

Bet 28+00 to 29+00
from 8' to 20' Rt
5. Eucalyptus

From Sta 27+00 to Sta 38+00
See F.B. 1528 - P. 74-75+76

27+65E 3' Rt. Elec Pole # 79595

Bet. 27+00 to 28+00
from 8' to 30' Rt
7. Eucalyptus

27+15 38' Lt. B.W. Fence E End.

26+42 5' Rt. Elec Pole # 79013

Bet. Sta 26+00 to 27+00
from 38' Lt. to 50' Lt.
8. Large Eucalyptus

Bet. Sta 26+00 to 27+00
from 10' to 50' Rt
8. Eucalyptus

26+00 38' Lt. B.W. Fence

Bet. Sta 25+00 to 26+00

from 39' Lt. to 50' Lt.

11. Large Eucalyptus.

Bet 25+00 to 26+00

from 10' to 50' Rt

15 Eucalyptus

25+00 37' Lt. B.W. Fence

Bet. Sta 24+00 to 25+00

from 38' Lt. to 50' Lt.

12 Large Eucalyptus.

Bet. 24+00 to 25+00

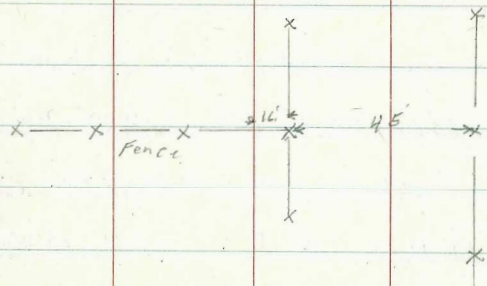
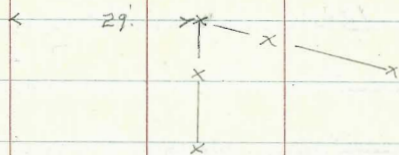
from 10' Rt. to 50' Rt

34' Eucalyptus

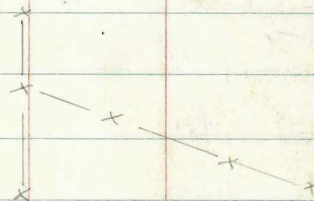
+72	48' Lt.	Eucalyptus	
+67	40' Lt	'	
+29	24' Lt.	Eucalyptus	
+06	26' Lt.	Eucalyptus	
+05	23' Lt.	B.W.F. E. End	
+04	22' Lt	Elec. Pole # 79038	
46+00			23' Rt. B.W.F.
45+00	23' Lt	B.W.F.	23' Rt. B.W.F.
44+00	23' Rt.	B.W.F.	23' Rt. B.W.F.
+17	22' Rt	Elec Pole # 79037	
43+00	23' Lt.	B.W.F.	23' Rt. B.W.F.
42+00	23' Lt.	B.W.F.	23.5' Rt. B.W.F.
+74	21' Lt	El Camino Del Rio	Bell Markers
41+00	23' Lt	B.W.F.	23' Rt. B.W.F.
+30	26' Lt	Deadman guy	21' Lt. Elec Guy Pole
+17	22' Rt.	Elec Pole # 79036	
40+00	22' Lt.	B.W.F.	22' Rt. B.W.F.
38+69	20' Rt.	Elec Pole # 79035	
38+67	22' Lt	B.W.F.	
38+50	27' Lt.	B.W. Fence	21' Rt. B.W. Fence
38+35			50' " B.W. "

55+00
 55+00 18' RT = B.W.F. ^{vs. road} 58' RT. Elec Pole 79043
 54+00 116' RT = B.W.F. N. side Rd
 +50 72' RT = B.W.F. S. side Rd 71' RT Elec Pole 79042
 53+00 18' RT = B.W.F.
 52+00 8' RT = B.W.F. N. side Rd
 51+84 52' RT. B.W.F. 51' RT. Elec Pole 79041
 51+32 4 = B.W.F. N side Ex. Road
 +49⁶³ F.C. 126' Lt. = B.W.F. 41' RT = B.W.F.
 +21 19' Lt = Elec Guy Pole 18' Lt = B.W.F.
 50+14 32' RT Elec Pole # 79040 38' RT. B.W.F.
 49+57 10' Lt = B.W.F. 35' RT. B.W.F.
 +66 26' Lt. Elec Guy Pole
 +64⁷² B.C. RT 11' Lt. B.W.F. 24' RT = B.W.F.
 +63 24' RT = Elec Pole # 79039
 +36⁵ = E. side Ex Cattle Pass.
 48+27 W. side Ex. Cattle Pass
 48+27 8' Lt B.W.F. 18' RT. B.W.F.
 +97 49' Lt. Eucalyptus
 +93 43' Lt " stump
 +87 38' Lt "
 +73 42' Lt " stump
 +55 51' Lt. B.W.F.
 47+00 20' RT B.W.F.

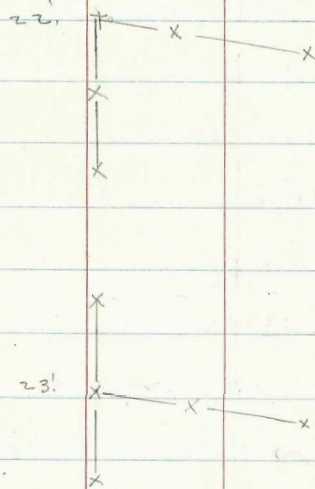
752		29' RT = B.W.F. E. End.	
65+00	19' LT = B.W.F.	31' RT = B.W.F.	
781		30' RT = Elec Pole # 79048	
776	14' LT = Elec Guy Pole	20' LT = Elec Dead Man Guy	
64+00	13' LT = B.W.F.	36.5' RT = B.W.F.	
63+00	5' LT = B.W.F.	45' RT = B.W.F.	
787		44' RT = Elec Pole # 49047	
765	E = B.W.F. N. Side Road.		
62+00	6' RT = B.W.F.	55' RT = B.W.F.	
61+37 ⁰⁸	E.P. 12' RT = B.W.F.	60' RT = B.W.F.	
61+00	16' RT = B.W.F.	63' RT = B.W.F.	
60+65	17' RT = B.W.F.	65' RT = Elec Pole # 79046	66' RT = B.W.F.
60+00	19' RT = B.W.F.	70' RT = B.W.F.	
59+35	17' RT = B.W.F.	63' RT = Elec Pole # 79045	64' RT = B.W.F.
59+00	16' RT = B.W.F.	61' RT = B.W.F.	
58+00	3.5' RT = B.W.F.	50' RT = B.W.F.	
57+95	49.5' RT = Elec Pole #	79044	
57+00	E = B.W.F. N. Side Road - 47' RT = B.W. Fence		
56+03 ⁸⁰	B.C. LT.	4' RT = B.W.F.	51' RT = B.W.F.



76+00 23. Lt. B.W.F. 24. Rt BWF 52. Rt. Wood. F.
 +22 24. Rt. Elec Pole # 79053
 75+00 23. Lt B.W.F. 26. Rt B.W.F.
 74+00 22. Lt. = B.W.F. 25. Rt B.W.F. 50.3 Rt. Wood Fence
 +71 23. Rt. Elec Pole # 79052
 +37 27. Lt. B.W.F. to West. 22. Lt = B.W.F. to East
 73+00 22. Lt = B.W.F. 25. Rt = B.W.F. 49.6 Rt = Wood F
 72+00 23. Lt. = B.W.F. 25. Rt. B.W.F. 49.4 Rt = wood F
 71+00 24. Lt. B.W.F. 25. Rt. B.W.F. 49.2 Rt = Wood F.
 +72 25. Rt. Elec Pole # 79051
 70+00 23. Lt = B.W.F. 27. Rt = B.W.F. 49. Rt = {Wooden Fence
 +74 } W. End
 +58 23. Lt. Δ in B.W.F.
 +56 50. Lt Eucalyptus
 +54 37. Lt = Gate Post.
 +39 37. Lt. Gate Post
 +31 24. Lt. Δ B.W.F. 24. Lt. Eucalyptus Tree
 69+00 23. Lt = B.W.F. 28. Rt = B.W.F.
 +22 26. Rt = Elec Pole 79050
 68+00 23. Lt = B.W.F. 28. Rt. B.W.F.
 67+00 24. Lt = B.W.F. 28. Rt B.W.F. W. End
 +24 26. Rt. Elec Pole 79049
 66+00 24. Lt = B.W.F.



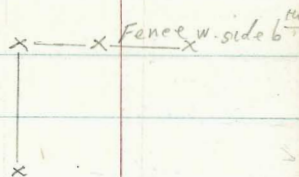
+98	28' Lt B.W.F	22' Rt B.W.F E. end
85+00	26' Lt B.W.F	23' Rt B.W.F
+64		20' Rt = Elec Pole #79059
84+00	26' Lt B.W.F	23' Rt B.W.F
83+00	26' Lt = B.W.F	23' Rt B.W.F
+63		20' Rt = Elec Pole #79056
+44	Cross F. on Rt.	
+19	Cross F. on Lt	
82+00	25' Lt B.W.F	23' Rt B.W.F
+48		24' Rt Willow Tree
+31		23' Rt Willow Tree
81+00	25' Lt = B.W.F	23' Rt = B.W.F
+98		22' Right Willow Tree
80+00	25' Lt = B.W.F	23' Rt = B.W.F
+65		21' Rt = Elec Pole 79055
79+00	24' Lt = B.W.F	23' Rt = B.W.F
78+00	24' Lt B.W.F	24' Rt B.W.F
77+03		23' Rt = Elec D.M. Guy.
77+00	24' Lt = B.W.F	24' Rt B.W.F
+72		23' Rt Elec Pole 79054
76+60		52.5 Rt Wood Fence E. End



+56 25' Lt. = B.W.F. = Cross F. on Lt
 +52 23' Lt. Tel Pole # 301487 H
 3+00 S. Fork 23' Rt B.W.F.
 2+30 20' Rt Elec Pole 79063
 2+06 S Fork Lt = Tel Pole 87857 H
 1+68 S. Fork 25' Lt B.W.F. E. End.
 1+33 S. Fork 25' Lt = B.W.F. 23' Rt B.W.F.
 W. End. B.W.F.
 +27 Cross Fence on Rt E. End. woods wire
 0+38 S. Fork 25.5' Lt. Tel Pole # D19102-T
 0+33 S. Fork 27' Lt = B.W.F. 22' Rt wood & wire Fence
 89+66 B.C. Lt. = 0+00 S. Fork
 +23 19' Rt Elec Co. D.M. Guy.
 +05 19' Rt Elec Pole # 79062
 89+00 28' Lt B.W.F. 22' Rt. wood & wire Fence
 88+00 28' Lt B.W.F. 21' Rt. wood & wire Fence
 +70 26.5' Lt Tel Pole # 87858 H
 +53 19.5' Rt Elec Pole # 79061
 +46 21' Rt. = 24x24" Conc Gate Post.
 87+28 28' Lt. B.W.F. 21.5' Rt. 24x24" Conc Gate Post
 86+27 26' Lt Tel Pole 89385-H
 86+25 20' Rt Elec Pole # 79060
 86+15 22' Rt. Wood & Wire Fence
 W. End.
 +10 26' Lt. Tel co. D.M. Guy.

See F. B. 1524 for Paymt.

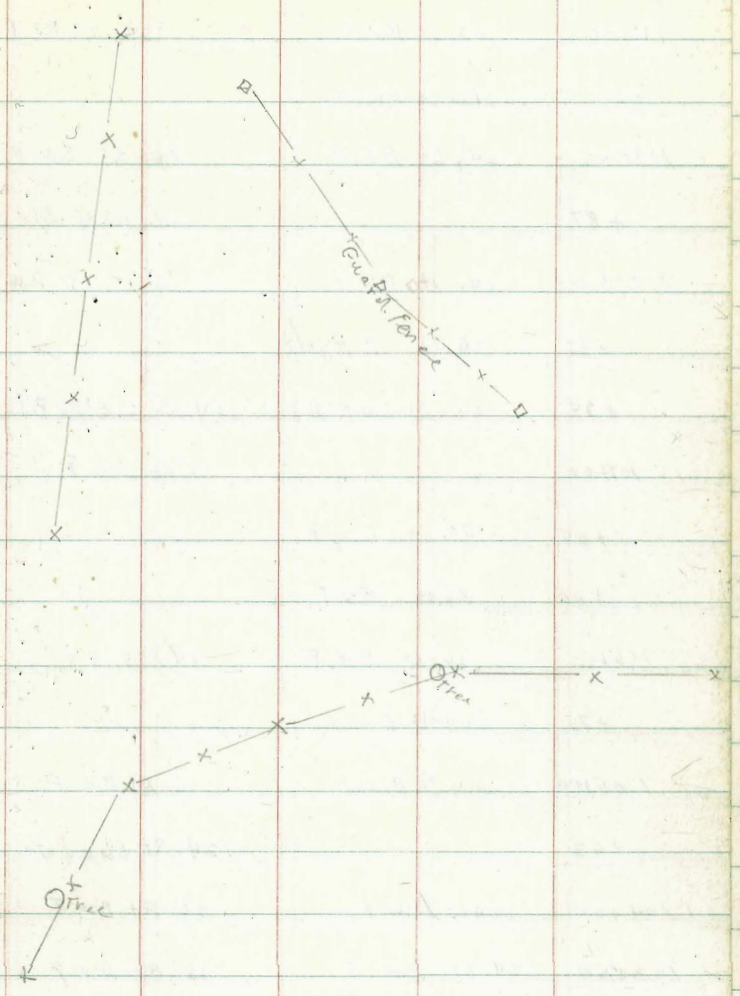
10+00	19' Lt = Wire Guard. Fence E End	24' Lt = B.W.F.	Fence W. side 6 th St	24
+85	25' Rt = W. End. Wire Guard. Fence			
+82	23' Lt = B.W.F.	27' Rt = B.W.F. E. End		
+81		23' Rt = Elec Pole 79066		
+70	22' Lt B.W.F.	24' Rt = B.W.F.		
+69	11' Lt = Wire Guard. Fence W. End			
+62	21.5' Lt. Tel. Co. D.M. Guy			
+47	21.5' Lt = Tel. Pole # D-19156-T			
9+00	22' Lt = B.W.F.	24' Rt = B.W.F.		
+20	22' Lt = Tel. Pole # 305545 H			
8+12		20.5' Rt Elec. Pole # 79065		
8+00	23' Lt = B.W.F.	24' Rt = B.W.F.		
7+00	23' Lt = B.W.F.	24' Rt = B.W.F.		
+70	22' Lt. Tel Pole # 301486 H			
6+00	22' Lt. B.W.F.	25' Rt. B.W.F.		
+23	23' Lt. Elec. Pole # 79064			
+21	24' Lt. Tel Pole # 37856 H			
5+00	25' Lt B.W.F.	24' Rt B.W.F.		
4+00 S. For H	25' Lt = B.W.F.	25' Rt = B.W.F.		



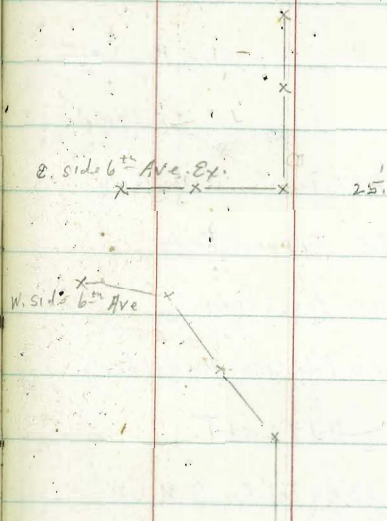
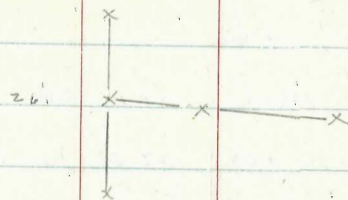
82 +44 51' Lt = Elec Pole 79487
 +38 28' Lt. E. End. B.W.F. 28' Lt. Elec. Co. D.M. Guy - 31' Lt = Elec. Guy Pole
 +36 59' Rt B.W.F.
 101+32 5' Lt = Guard. Fence E. End

+91 22' Rt = Guard. Fence
 +74 40' Rt Guard. Fence W. End
 +57 6' Lt. Elec Co D.M. Guy.
 100+51 36' Lt = B.W.F. W. End. 20' Rt. Elec Pole 79546
 100+47 6' Lt. Eucalyptus Tree 36" Diam.
 +44 23' Rt " "
 +43 18' Rt. " "
 +35 41' Rt. " " 41' Rt = B.W.F.
 +25 4 B.W.F. - 14 Rt = Elec D.M. Guy
 100+20 23' Lt = B.W.F.

99+75 36' Lt. Eucalyptus 35' Lt. B.W.F.
 97+24⁰⁴ B.C. Rt.
 97+22 50' Lt Large Eucalyptus
 97+10 42' Lt. Large Eucalyptus
 94+57⁰⁴ F.C.



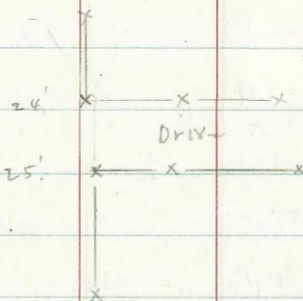
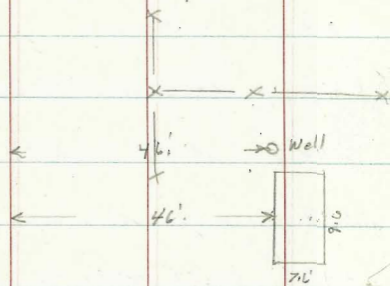
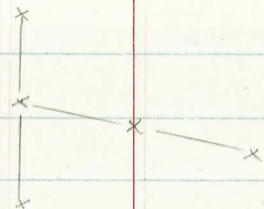
110+00	24' Lt. B.W.F.	25' Rt. B.W.F.
+20	Cross Fence on Rt	
109+00	24' Lt. B.W.F.	26' Rt. B.W.F.
+87		24' Rt. Elec Pole # 79074
108+00	24' Lt. B.W.F.	25' Rt. B.W.F.
+38	25' Lt. " 2 Hyd.	
+34	25' Lt. B.W.F. W. End. = 24' Rt. = Elec Pole # 79073	
107+00		25' Rt. = B.W.F.
+55	50' Lt. B.W.F.	
+40	38' Lt. B.W.F.	
106+00	26' Lt. B.W.F.	25' Rt. = B.W.F.
+75	24' Lt. B.W.F.	
105+00	24' Lt. B.W.F.	25' Rt. B.W.F.
+63		24' Rt. Elec Pole # 79548
104+00	24' Lt. B.W.F.	25' Rt. B.W.F.
103+00	24' Lt. B.W.F.	25' Rt. B.W.F.
+58	24' Lt. B.W.F. W. End.	
102+07 ⁶²	E.C.	25' Rt. = B.W.F.
102+05 ⁶		25' Rt. = Elec Pole # 79547
102+79	24' Rt. Elec DM. Guy	32' Rt. B.W.F.



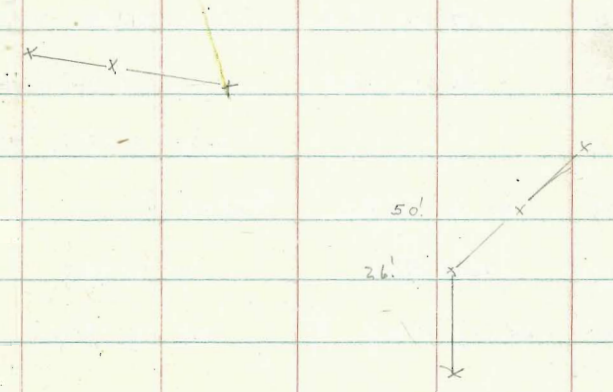
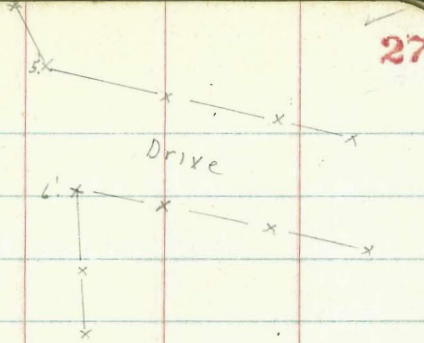
+ 47		24' RT = Elec Pole 79077
116+00	24' Lt B.W.F	25' Rt B.W.F
+04	23' Lt Tel Pole	D-19202-T
115+00	24' Lt B.W.F	25' Rt = B.W.F
+06		25' Rt Elec Pole 79500
114+00	24' Lt B.W.F	25' Rt = B.W.F
+99		23' Rt = Tel Co D.M. Guy
+68		27' Rt Cypress Tree
+58		25' Rt. Cross Fence
+52	23.5' Rt = E. Pole of double Pole	Cross Arm Holder Tel Co 4572
+46	23' Lt Tel Co Pole	D-19201-T
+44		33' Rt. Tel Co. D.M. Guy Cross Arm Holder
+40	23.5' Rt = W. Pole of Double Pole	Tel Co Crossing 4572
+30	22' Lt Tel Co	D.M. Guy
113+00	23' Lt B.W.F	25' Rt. Elec Pole 79505 26' Rt B.W.F
+92		23' Rt Tel Co. D.M. Guy
+63		25' Rt. El = Co. D.M. Guy
112+00	23' Lt B.W.F	25' Rt = B.W.F
111+00	23' Lt B.W.F	25' Rt = B.W.F
110+46		24' Rt = Elec Pole 79075



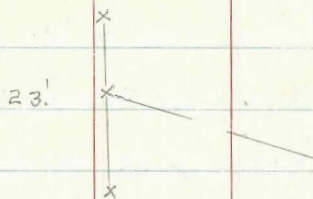
123+00	22' Lt. B.W.F.	26' Rt. Picket F.
+68	21' Lt = Tel Pole #89544-H	
122+41		25' Rt = Elec Pole #79040
+92	22' Lt B.W.F.	27' Rt E. B.W.F. } Cross Fence
+16	26' Lt Tel Pole #89543-H	
121+00	22' Lt = B.W.F.	26' Rt = B.W.F.
120+00	22' Lt. B.W.F.	26' Rt. B.W.F.
+70	21' Lt Tel Pole #89524-H	
+46		25' Rt. Elec Pole #79077
119+00	23' Lt = B.W.F.	26' Rt = B.W.F. Cross F.
+45		46' Rt. Drilled Well
+32	46' Rt. N. side, ctr. Conc. Reservoir	
+30	24' Rt = Elec Pole #79078	
+22		27' Rt Cypress 30" Dia
+21	21' Lt. Tel Pole D-19204-T.	
118+06	24' Lt. B.W.F.	24' Rt. Fence
117+92		25' Rt = Cross Fence
117+00	24' Lt = B.W.F.	25' Rt = B.W.F.
+65	21.5 Lt. Tel Co D-19203-T Pole	
✓ 116+60		48.5' Rt Drilled Well



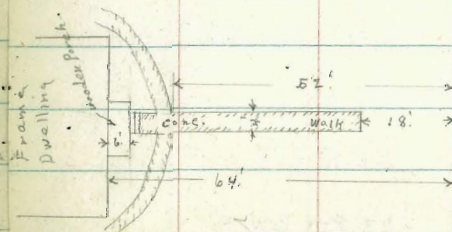
129+32 E crossed. B.W.F.
 128+88 5' Rt. Fence Cor B.W.F.
 +75 40' Lt. Tel Pole D-19211-T
 +72 6' Rt. Fence Cor. E End Picket.
 +52 39' Lt = Elec Co Guy Pole
 +51 7' Rt = Elec Pole # 79088
 +38⁸⁸ E.C.
 128+00 13' Rt = B.W.F.
 +50 20' Rt = Picket. F.
 +47 12' Rt = Elec Pole # 79087 - 36' Rt. Elec Co D.M. Guy.
 +05 24' Rt E. " B.W.F.
 127+04 19' Lt. Tel Pole D-192105 - 13' Lt. Tel D.M. Guy
 +93 14' Lt = S. End. B.W.F.
 +90 44' Rt. W. End. B.W.F.
 +47 27' Rt Elec Pole # 79082 - 50' Rt. B.W.F.
 126+18 21' Lt = E. End. B.W.F. 26' Rt = E. " Picket. F.
 +65⁴⁴ B.C. Lt 22' Lt = B.W.F. 25' Rt = Picket. F.
 +51 21' Lt. Tel Pole D-19209-T.
 +44 24' Rt. Elec Pole # 79081
 125+00 22' Lt. B.W.F. 25' Rt. Picket. F.
 +12 21' Lt. Tel Pole # 89545-H. Lt
 124+00 22' Lt B.W.F. 25' Rt = Picket. F



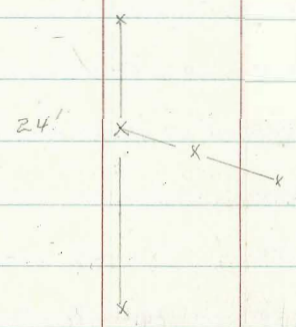
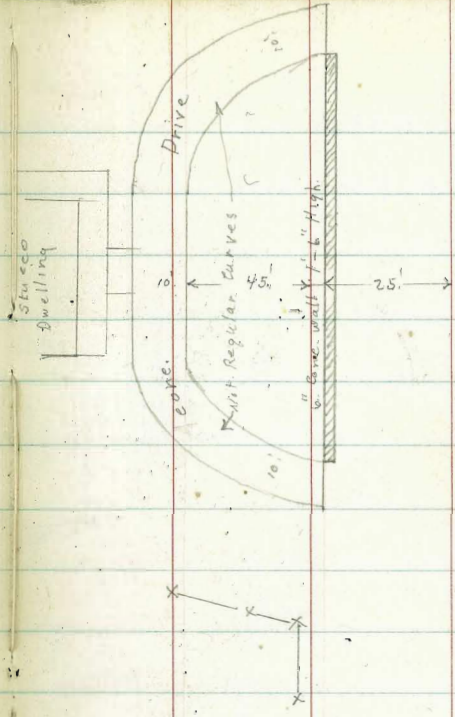
136+00	25' Lt. B.W.F.	23' Rt. B.W.F.
+95	23' Lt = Tel Pole #89549 H.	
+08		24' Rt. Willow Tree
135+00	25' Lt B.W.F.	23' Rt = B.W.F.
+48	24' Lt = Tel. Pole #89548 H.	
134+00	26' Lt B.W.F.	23' Rt B.W.F.
+36		23' Rt = Elec Pole #79091
+9	24.5' Lt. Tel Pole #89547 H	
133+00	27' Lt = B.W.F.	21.5' Rt = B.W.F.
132+00	30' Lt. B.W.F.	17' Rt. B.W.F.
+77		15' Rt = Elec Pole #79090
+72	32' Lt. Tel Pole #89546 H	
131+50	36' Lt B.W.F.	12' Rt. B.W.F.
131+00	43' Lt = B.W.F.	5.5' Rt = B.W.F.
130+80	4 crosses. B.W.F. S. side Road	
130+43	55' Lt = Elec Co Guy Pole	Outside R/W
130+42	57' Lt = B.W.F. N side 55' H = Tel. Pole #409954 H	Outside R/W
130+39	10' Lt = Elec Pole #79089	9' Lt = B.W.F. S. side
130+15 ⁵⁰	B.C. Rt.	



+62 23' Lt. Tel. Pole # 87890-H
 143+00 24' Lt. B.W.F. 22' Rt = B.W.F.
 +48 22' Rt = B.W.F. W. End - 23' Rt Large Eucalyptus Tree.
 +29 22' Rt Large Eucalyptus ^{alive} stump
 +22 22' Rt = Elec Pole # 79118
 +19 23' Lt = Tel Pole # 87889 H
 142+15 24' Lt. B.W.F. 24' Rt Eucalyptus Stump ^{alive}
 +36 41' Rt Eucalyptus stump ^{alive}
 +34 31' Rt. Large Tree
 141+00 24' Lt. B.W.F.
 140+66 23' Lt. Tel Pole # 87888-H
 140+26 24' Lt B.W.F. cross Fence
 140+25 27' Rt. Elec D.M. Guy. 21.5' Rt. Elec Pole # 79447
 +29 22' Rt. Elec Pole # 79093
 +13 23' Lt Tel Pole # 80550 H.
 139+00 23' Lt. B.W.F.
 138+10 23' Lt. B.W.F. 23' Rt. B.W.F. E End.
 +72 23' Lt Tel Pole # 407212 H
 137+00 23' Lt. B.W.F. 24' Rt = B.W.F.
 +70 = $\frac{1}{2}$ 4' Curt. Walk. on Lt.
 +30 23' Rt = Elec Pole # 79092
 136+09 22' Rt = Elec. Co. D.M. Guy



151+30	25' Lt = E. Edge 10' cmt Drive	25' Rt = B.W.F
151+24	23' Rt Elec Pole #79121	
151+00		
150+77	E.C. on Conc. Drive	
150+34	E.C. on conc Drive	
149+92	25' Lt = W. End. conc wall	25' Rt = B.W.F
149+00	25' Lt = W. Edge 10' cmt Drive	
+81		
149+58	23' Lt = Tel Pole #87893-H	
+97	24' Lt = B.W.F. E. End.	25' Rt = B.W.F
+26		23' Rt = Elec Pole #79120
+14	23' Lt = Tel Pole #87892-H	
148+00	23' Lt = B.W.F	24' Rt = B.W.F
147+00	24' Lt = B.W.F	24' Rt = B.W.F
+62	23' Lt = Tel Pole #87891-H	
146+00	24' Lt = B.W.F	24' Rt = B.W.F
+96		Cross Fence
+22		22' Rt = Elec Pole #79119
+15	24' Lt = Tel Pole #307677 H	
145+60	24' Lt = B.W.F	23' Rt = B.W.F
144+00	24' Lt = B.W.F	23' Rt = B.W.F



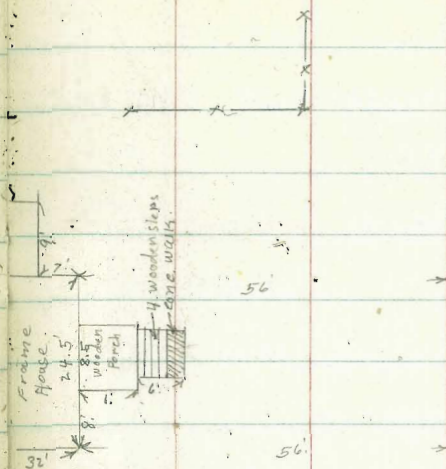
153+47 23' Lt = Tel. Pole # 87895-H

153+46 24' Lt = B.W.F. W End + Cross Fence

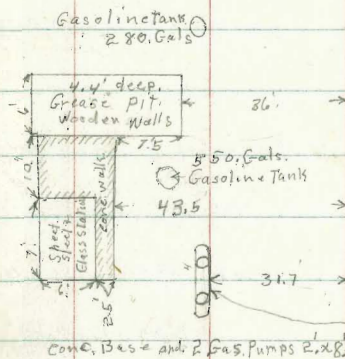
153+00

25' Rt = B.W.F.

152+95 W. side House



+65 31.7' Lt. Gas. Pumps. 46' Lt = Gas station S.W. cor



+20 33' Lt = Large Fan Palm

+05 45' Lt = Large Fan Palm

152+00

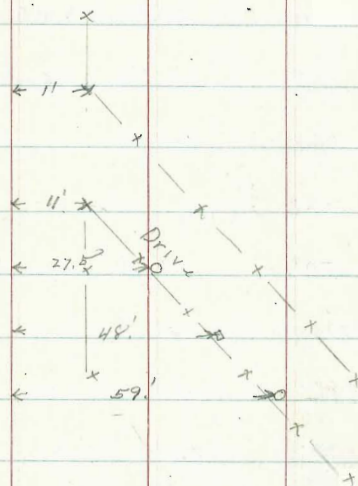
25' Rt = B.W.F.

+61 46' Lt = Large Fan Palm

+58 24' Lt = Tel Co. D.M. Guy.

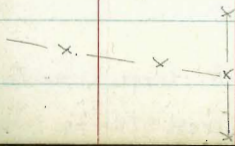
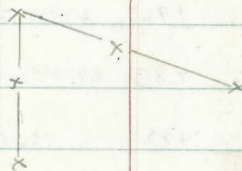
151+33 24' Lt = Tel Pole 87894-H

+67	12' Lt Tel Pole	# D-19230-T	
+64	2' Rt Tel Guy Pole 301485H	28' Rt Tel Co. D.M. Guy	
+60	14' Lt B.W.F.		
+29	21' Rt Elec Pole # 79128	23' Rt B.W.F.	
157+00	23' Lt = B.W.F.	19' Rt = B.W.F.	
+50	30' Lt B.W.F.	14' Rt B.W.F.	
+12	33' Lt Tel Pole 87896H		
156+00	34' Lt B.W.F.	11' Rt B.W.F.	
+56		11' Rt = Fence Cut Cross fence	
+42	35' Lt = B.W.F.	11' Rt = Fence Cor. + Cross Fence	
+35		27.5' Rt = Elec Pole # 79127	
+28		48' Rt = Elec Co D.M. Guy	
+22		59' Rt = Tel Pole	outside R/W
155+00	34' Lt B.W.F.	13' Rt = B.W.F.	
+97	33' Lt Tel Pole # D-192208-T		
154+78 ⁴³	B.C. Lt. 33' Lt B.W.F.	14' Rt = B.W.F.	
154+00	26' Lt = B.W.F.	21' Rt = B.W.F.	
153+58	25' Rt = B.W.F.	24' Rt = Elec Pole # 79126	



714 32' Lt. Eucalyptus
 162+00 24' Lt. = B.W.F. 23' Rt. = B.W.F.
 774 23' Lt. = Eucalyptus
 24' Lt. B.W.F. 25' Rt. = B.W.F.
 745 29' Lt. = Eucalyptus
 729¹⁴ = B.C. Rt
 728 22' Lt. " "
 712 16' Lt. Tel Pole # 87898 H
 161+00 25' Lt. = B.W.F. 25' Rt. = B.W.F.
 748 23' Lt. Eucalyptus
 726 20' Lt. "
 725 25' Rt. = Elec Pole
 708 20' Lt. Eucalyptus Tree
 160+00 25' Lt. B.W.F. 26' Rt. = B.W.F.
 bet. 159+60 + 159+90 from 15' Lt to 25' Lt = 15 scrub Eucalyptus
 753 20' Lt. = Tel Pole # 87897 H
 750 25' Lt. B.W.F. 25' Rt. B.W.F.
 159+18⁵⁹ E.C.
 159+00 25' Lt. B.W.F. 25' Rt. = B.W.F.
 754 24' Rt. = Elec Pole # 79129
 158+50 22' Lt. B.W.F. 27' Rt. = B.W.F.
 157+78 32' Rt. = B.W.F.

+73 12' Lt = Tel Co D.M. Guy 5' H = Tel Pole # 17235-7
 +70 30' Rt = Elec Pole # 79133
 165+68⁸⁵ E.C. 6' Lt = B.W.F.
 165+00 4' Lt = B.W.F.
 164+50 5' Lt = B.W.F.
 +21 15' Lt, Tel. Co. D.M. Guy 8' Lt = Tel. Pole # 82316 H
 +17 28' Rt = Elec. Pole # 79132
 164+00 7' Lt = B.W.F.
 +50 13' Lt = B.W.F.
 163+00 20' Lt = B.W.F.
 +86 27' Lt = Eucal. T.
 +82 24' Lt = Eucal. T. 19' Lt Eucal. T.
 +76 24' Lt. Eucal. T. 17' Lt = Eucal. T.
 +73 32' Lt. Eucal. T.
 +70 24' Lt = Eucal. T.
 +67 29' Lt Tel Co. D.M. Guy. Cross Fence
 +67 19' Lt = Tel Pole # 82317 H - Rt = Elec Pole # 79131. 20' Rt = B.W.F. E. End
 +52 29' Lt. Eucal. 33' Lt = Eucalyptus 23' Lt = B.W.F.
 +52 17' Lt = Eucalyptus - 26' Lt. Eucalyptus
 +56 39' Lt. Eucal. T.
 +48 29' Lt. 1) "
 162+44 24' Lt = Fence Curt Cross Fence



172+00 17' Lt. B.W.F. 26' Rt. B.W.F.
 +73 25' Rt = Elce Pole # 79135
 +72 26' Rt. = Cross Fence
 +69 31' Rt. Pepper Tree

171+00 17' Lt = B.W.F. 27' Rt = B.W.F.

+76 16' Lt Tel Pole 307 676 H

170+00 17' Lt B.W.F. 27' Rt = B.W.F.

+76 27' Rt Pepper Tree

+20 15' Lt Tel Pole 87899 H

169+00 16' Lt B.W.F. 26' Rt. B.W.F.

+72 25' Rt Elce Pole 79134

+33 26' Rt = B.W.F.

+32 28' Rt Large Cypress T.

+14 29' Rt = Large Pepper T.

168+00 16' Lt. B.W.F.

+92 29' Rt = N. End. Row Large Cypress Trees

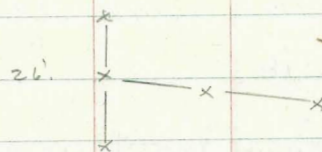
+83 29' Rt = E. End. of Row. of Dead Cypress stumps

+82 15' Lt = Tel Pole D-19236-T.

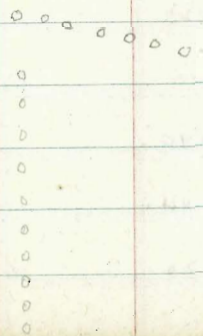
167+12 15' Lt = B.W.F. + Cross Fence.

166+48 11' Lt = B.W.F. 28' Rt. Large Elder Tree

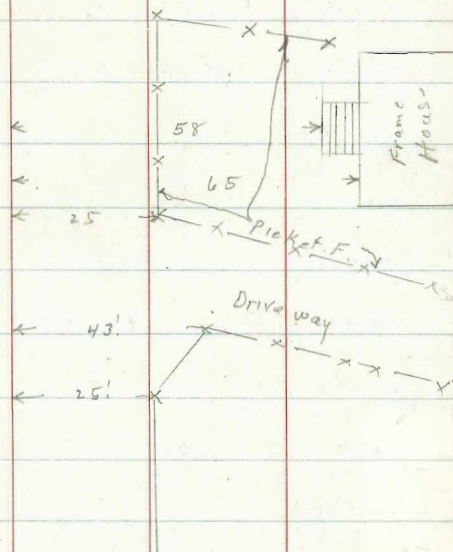
166+12 28' Rt = W. End. of Row of Dead Cypress Stumps. 20" to 30" Dia



29 Rt = B.W.F. W. End.



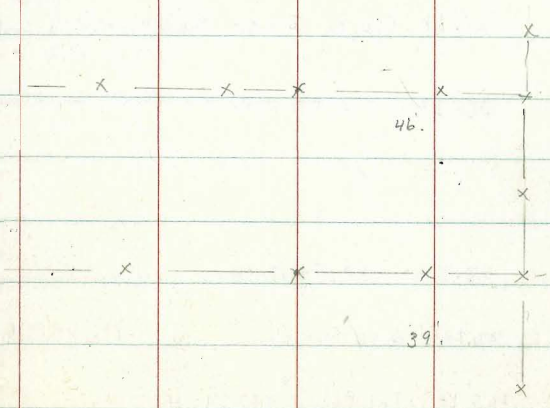
+32	24' Rt. Elec Pole #79138	25' Rt. { W. End. B.W.F E. End. Picket F
177+00	18' Lt = B.W.F	25' Rt = Picket F
780	66.5 Rt. ctr Frame Dwelling (58' to steps)	
176+13	25' Rt. W. End. Picket Fence	
176+00	19' Lt = B.W.F	
+92	43' Rt. B.W.F	
+84	25' Rt. B.W.F	
+75	18' Lt Tel Pole #305606 H	18' Lt = B.W.F
175+00	17' Lt = B.W.F	26' Rt = B.W.F
+74	24' Rt. Elec Pole #79137	
174+00	17' Lt = B.W.F	26' Rt = B.W.F
+74	16.5' Lt. Tel. Pole	305605 H
+54	31' Rt = Cypress T	
+43	31' " " "	
+34	31' " " "	
+25	31' " " "	
173+00	17' Lt = B.W.F	26' Rt = B.W.F
+90	25' Rt. Elec Pole #79136	
+44	30' Rt Large Cypress	
172+20	16' Lt. Tel. Pole 87900 H	



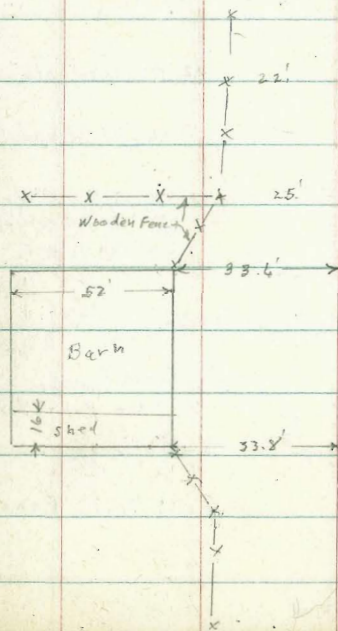
182+32⁰⁵ E.C.
 182+10 33' RT = B.W.F 35' RT = Tel Pole # 89351 H
 181+50 27' RT = B.W.F
 180+62 12' RT. B.W.F 13' RT Tel Pole
 180+52 6 = B.W.F. cross Fence
 779 40' RT Δ Fence W. side Texas St
 778 39' RT Elec Pole #
 774 16.5' Lt = Elec Co Guy Pole 21' Lt Elec Co D.M. Guy
 750 21' Lt B.W.F. 22' RT. B.W.F
 745 31' Lt Tel Co. D.M. Guy 21' Lt Tel Pole # 305603 H - 11' Lt. Tel. Co. D.M. Guy
 179+00 20' Lt = B.W.F 24' RT. B.W.F.
 746⁰⁴ B.CRT. 19' Lt B.W.F. 25' RT = B.W.F.
 178+00 19' Lt = B.W.F 25' RT = B.W.F.
 762 = 19' Lt = Tel Pole # 305607 H
 763 39' RT = Fig Tree
 757 47' RT. etc. dug Well 4' x 4'.
 749 40' RT. Fig Tree 58' RT. Fig Tree
 177+33 12' Lt Elec Guy Pole 17' Lt. Elec Co D.M. Guy



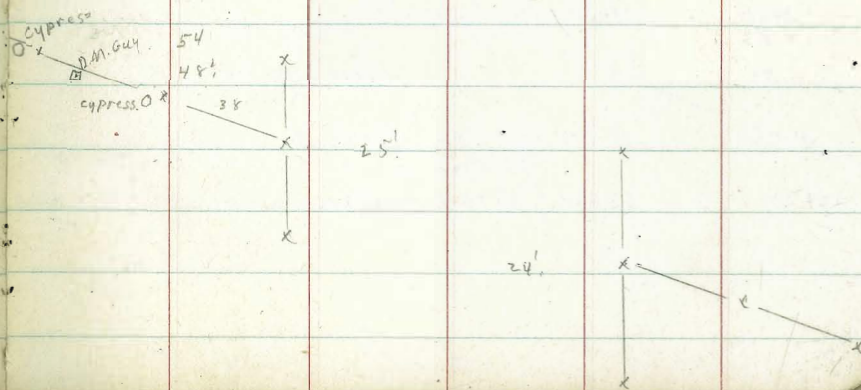
191+00 22' Lt B.W.F. 22' Rt B.W.F.
 190+00 21.5' Lt B.W.F. 21.5' Rt = B.W.F.
 + 88 20' Rt = Elec Pole # 79146
 189+61 21' Lt. = Tel Pole # 87353.H
 + 49⁹¹ E.C. 22.5' Lt B.W.F. 22' Rt = B.W.F.
 + 09 20.5' Lt. Tel Pole # D19250T
 188+00 21.5' Lt. B.W.F. 23' Rt = B.W.F.
 + 90 23' Rt Elec Pole # 79145
 187+00 11' Lt = B.W.F. 34' Rt = B.W.F.
 + 54 3' Lt. = Tel. Pole # 89352.H
 + 38 ~~⊥~~ crosses B.W.F. N. side Ex Road.
 + 26 3' Rt = B.W.F. 46' Rt Elec Pole # 79144 47' Rt = B.W.F.
 186+00 2' Rt B.W.F. N. side Ex Rd. 52' Rt = B.W.F. S. side Ex Rd.
 185+16 7' Rt = Elec Pole # 79143
 185+09 31' Rt = B.W.F. 32' Rt = Tel Pole # D19248.T. 36' Rt = Tel. D.M. Guy outside R/W
 184+35 ~~⊥~~ = Cross Fence — x — x — x — x —
 184+00 46' Rt. B.W.F. 88' Rt Elec Pole # 79142 46.
 183+69 45' Rt. Tel Pole # 79147.T. 49' Rt Tel Co. D.M. Guy.
 183+07 ~~⊥~~ = Cross Fence — x — x — x — x —
 183+00 39' Rt B.W.F. N. side Ex Rd. 39.
 182+50 35' Rt. B.W.F. 81' Rt Elec Pole 79141 x



198+00	23' Lt = B.W.F.	23' Rt = B.W.F.
197+00	23' Lt B.W.F.	23' Rt B.W.F.
+76	21.5' Lt. Tel Pole # 89356 H	
196+00	22.5' Lt = B.W.F.	21' Rt = B.W.F.
+39		21.5' Rt = Elec Pole # 79144
195+00	22' Lt. B.W.F.	22' Rt. B.W.F.
+86	21.5' Lt. Tel Pole # 89355 H	
194+00	22' Lt = B.W.F.	21' Rt. B.W.F.
+21		20' Rt. Elec. Co: D.M. Guy.
+06	21' Lt. Tel Pole # D-19253-T	
193+00	22' Lt. B.W.F.	21' Rt = B.W.F.
+88		22' Rt. Elec Pole # 79147
+79	25' Lt. Cypress Tree 30" Diam - 25' Lt. E. ^{W End B.W.F.} Wooden Fence	
192+42	33.6' Lt = S. E. Cor Barn	
191+91	33.8' Lt = SW Cor Barn	
191+80	22' Lt = Δ in Fence	21' Rt. B.W.F.
191+13	21.5' Lt = Tel Pole # 89354 H	

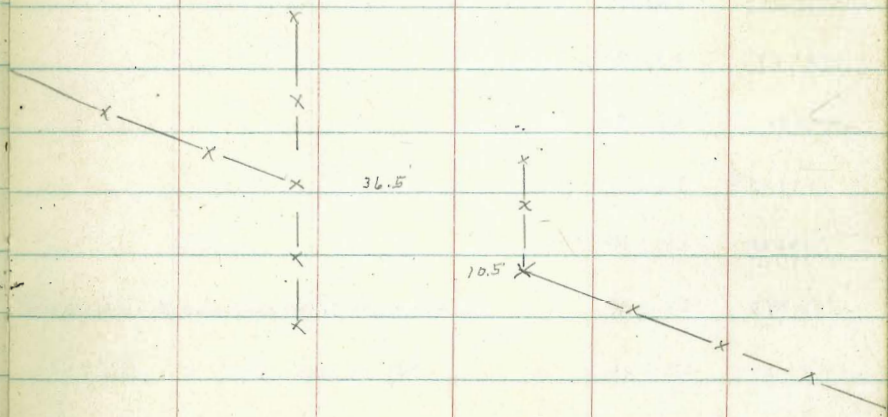
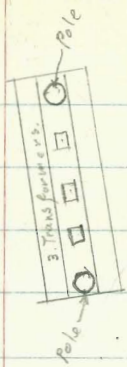


+ 21 ³²	F.F.	
202+00	31' Lt. B.W.F.	
+ 97		23' Rt. Eucalyptus 4" Diam
+ 28		24' Rt. " 4" Diam
+ 04		25' Rt. " 4" Diam
201+00	26' Lt. = B.W.F.	
+ 96	24' Lt. Elec. Co. Guy. Pole Right	
+ 93		21.5' Rt. Elec Pole 79151
+ 63	24' Lt. = Tel Pole # D-19257-T	
+ 49		22.5' Rt. = Eucalyptus 4" Diam
+ 46		35.5' Rt. = " 3" Diam
+ 5 ⁶	B.E. Rt. 25' Lt. B.W.F.	
+ 19		42' Rt. Eucalyptus 3" Diam
+ 16		24' Rt. = E End B.W.F.
200+00	25.5' Lt. = B.W.F.	24' Rt. = B.W.F.
+ 90		27' Rt. Eucalyptus 4" Diam
199+00	26' Lt. = B.W.F.	23' Rt. B.W.F.
+ 55	54' Lt. Cypress 27" Diam	
+ 53	48' Lt. Elec Co D.M. Guy.	
+ 50	38' Lt. Cypress 30" Diam	
+ 47		25' Rt. Cross Fence
+ 33		22' Rt. Elec Pole 79149
+ 29	22.5' Lt. Tel Pole # 306148 H	
198+28		24' Rt. Cross Fence



From sta 204+00 to Old City Boundary. See F.B.
1530 - P. 21422

- + 11 6.5 Lt = E. Pole of Transformer Station #79708.
- 204+00 48.1 Lt. B.W.F. side Rd. 4. Lt. R. W.F. S. side Rd.
- + 97 34.1 Lt Fig Tree 5" Diam
- + 95 3.1 Lt = W. Pole of Elec Co Transformer Station #79709
- + 71 53.1 Lt Fig Tree 5" Diam.
- + 65 52.1 Lt = " " " "
- + 56 & Crosses B.W.F. S. side Ex Rd.
- + 49 51.1 Lt = Fig Tree 5" Diam
- + 33 50.1 " " " "
- + 17 49.1 " " " "
- + 01 48.1 " " " "
- 103+00 40.1 Lt. B.W.F. 5.1 Rt. B.W.F.
- + 85 47.1 Lt. Fig Tree 5" Diam
- + 41 36.5 Lt = Fence Cor
- + 20 36.1 Lt = Elec Co Guy Pole
- + 53 8.5 Rt. Elec. Pole #79152
- + 52 10.5 Rt = Fence Cor.
- + 26 33.1 Lt. Tel. Pole #89357 H
(38" Diam outside 12" walls Badly Cracked.
- 102+25 62.5 Lt = Str = Radius of Circular Cone Reservoir 4.3' Deep.



⊕

12-27-38 Miller	Water	Valve	Location	Indexed C. Miller
162+07	26.8' Rt.	Valve	E end pipe	
161+18	28' Rt.	"		
140+33	28' Rt.	"		
159+37 ^E	29' Rt.	"		
158+47	30' Rt.	"		
157+67	31.5 Rt.	"		
156+89	32.5 Rt.	"		
156+03	13' Rt.	"	under fill	
154+75	18' Rt.	"	" "	
154+18	22.3 Rt.	"	" "	
153+51	28.3 Rt.	"		
152+85	28' Rt.	"		
152+22	29.8 Rt.	"		
151+57	29' Rt.	"		
150+91	29' Rt.	"		
150+25 ^E	28.5 Rt.	"		
149+60	28.5 Rt.	"		
148+93	28.5 Rt.	"	12" concrete pipe in 24"x24" conc. slab Crosses. Road from Stand pipe on N side of R/W.	
148+27	28.5 Rt.	"		156+14 6" Pipe Crosses Rd
147+67	28' Rt.	"		156+14 33' Lt. Valve
146+96	28' Rt.	"		155+36 37' Lt "
146+33	29.5 Rt =	Valve	= 0+34 pg. 68 Book G190	154+60 29.5 Lt " Con. on Page 46

4-20-38

Camino Del Rio "D" from sta 32+00 to 37+82.87

Alignment "D" Line F.B. 1528-80 + 71 to 77

X Sec D. Line from sta. 14+74⁵⁷ to 31+50 c.F.B. 1531-19

Grade

RT 43

T.P. 8.96 — 40.39 — 1.25 31.43

34+00 $\frac{1}{2}S=0.3$ 29.74 C 2.3

	24.1			30.1				32.0			34.9			37.2
0.3	3.6	3.3	2.7	2.6	2.6	1.0	0.7	7.0	2.2	2.5	1.0	5.5	6.5	
<u>36.6</u>	50	35	.20	15	6	5		8	15	20	43	44	50	
(18)														28.6

+63⁶³ B.C. Lt.+50 $\frac{1}{2}S=0.2$ 28.38 C 0.3

	24.9			27.1				28.7			32.2			36.9
0.1	7.8	7.5	5.4	5.0	5.0	4.1	4.0	3.4	1.7	0.5	0.1	1.3	4.2	
<u>39.1</u>	50	40	35	26	15	7	6	8	11	15	20	33	50	
(12)														38.0

33+00 $\frac{1}{2}S=0.1$ 27.04 C 0.3

	19.4							25.8	27.3			28.1		33.5
F 1.0	13.3	12.7	6.5	7.2	7.1	6.9	5.4	4.6	3.6	2.0	7.0	8	2.3	
<u>33.8</u>	50	45	35	33	20	15		15	20	50			24.4	
(14)														

32+50 $\frac{1}{2}S=0.0$ 25.70 F 1.0

	18.4							28.0	24.1			25.4		31.4
F 2.3	14.3	13.3	8.4	9.0	8.8	8.7	8.0	7.4	7.1	1.3			0.7	
<u>34.7</u>	50	42	32	30	26	15		15	20	50			23.0	
														HULLINE F.C.C.T.

32+00 24.35 E 1.3

	19.4							25.7	26.7			31.1		
F 2.0	13.3	12.0	10.0	10.2	10.2	7.4	7.0	7.0	6.0	5.7	1.6		3.6	
<u>35.0</u>	50	38	32	20	15	3	2		15	20	50		25.8	
(14)														

T.P. 3.35 — 32.68 — 12.75 29.32

B.M. 5.06 46.10
1.03 — 42.07 —

41.04 Nail in Elec Pole

At sta 37+24 Original E.

Grade

+50 36.44 2.3
35.06 < 2.6

37.6
C2.8
26.2
50
8.2 8.1 8.4 6.5 5.7 5.5 5.5
15 4 7 15 20 50
C5.0
28.5

T.P. 9.66 46.77 3.28

37.11

46.77

36+00 35.12 c2.8
33.78 < 4.1

36.4
C2.2
29.0
50
4.0 2.9 3.0 3.0 2.5 2.5 0.8 0.7 +0.5
15 2 4 15 20 50
+2.9 C5.5
50 29.0

+50 1/2 S=0.1 33.79 3.3
32.50 < 4.6

35.1 C2.5
30.0
50
5.3 4.4 4.8 4.8 4.4 3.3 3.3 1.4 0.4
50 31 20 15 3 2 15 20 50
+2.0 C6.5
50 29.2

35+00 1/2 S=0.2 32.43 2.9
31.22 < 4.1

33.8
6.6 5.8 6.2 34.2 35.3 36.8
50 34 20 15 5.1 3.6 3.1
C1.9
45.0
50
40.2 C5.8
50 28.2

+96²⁹ E.C.
34+50 1/2 S=0.3 31.08 < 3.9

31.9 32.4 35.0 36.6 40.7
8.5 7.9 8.0 8.0 8.0 6.4 5.4 5.0 3.8 3.2 1.4 0.3 +0.3
50 35 20 15 6 5 8 15 20 48 45 50
C1.8
35.0
50
C6.5
29.2
C5.4
18.0

40.39

40.39

±

= 39 + 81.92 E.C. Original Line

39 + 82.82 P.O.T. D Line

+50	40.83 39.10	C0.6 C2.3		
39 + 00	40.63 38.80	C1.0 C2.8		
+50	40.16 38.40	C1.8 C3.6		
38 + 00	39.53 37.80	2.1 C3.8	4.3	41.7
+50	38.71 37.10	2.0 C3.6	5.3	40.7
37 + 00	37.68 36.20	C2.0 C3.5	6.5	39.6
	46.10 46.77	6.5		

^{38.8} C15 25.2	8.0 50	7.0 35	5.8 20	41.4 15	41.4 15	41.5 15	4.6 20	42.8 50	2.0 C3.6 25.7
^{38.0} C16 25.0	8.6 50	7.8 35	5.5 20	41.5 15	41.6 15	41.5 15	4.6 20	43.0 50	2.0 C3.7 26.3
^{38.8} C18 26.7	8.0 50	6.5 22	5.2 20	41.9 15	42.0 15	42.3 15	4.0 20	43.5 50	C2.8 25.6
^{38.2} E05 24.6	8.6 50	7.6 22	6.5 20	41.5 15	41.6 15	42.1 15	4.4 20	43.0 50	C2.9 25.8
^{38.4} C15 25.2	8.4 50	7.0 33	5.7 20	40.6 15	40.7 15	41.7 15	5.1 20	43.4 50	3.8 C3.7 25.6
^{38.0} C19 24.3	8.8 50	8.0 35	7.2 20	39.5 15	39.7 15	41.2 15	5.1 20	41.3 50	5.5 C3.7 27.1
							46.77		

Miller
12-27-1938

Valve + Pipe Locations on
Camino del Rio - Continued
from Page 42.

46

198+22	27.5' Lt	E end 8" conc pipe to be moved N of R/W
192+82	27.0' Lt	W " " " " " "
192+82	28.0' Lt	outlet valve on 6" line " "
192+82	6"	pipe crosses road N + S.
192+82	23.0' Lt	E end 6" pipe to be removed.
192+81	3"	pipe crosses Road - Not in use.
191+78	24.8' Lt	Valve W end 6" pipe to be removed

1-18-39
Miller
Walker
Bliss

Survey for Moving Barn Sta 191+75.6 to 192+41.9
N. Side Camino Del Rio.

indexed
C.S.R.

47

B.M. Nail Edge Pole # 89354.H 42.10 21.5 Lt of Sta. 191+13

B.M. 5.01 47.11 42.10

191+50

33.8 Lt of ϕ 7.1 40.0

52. " " " 7.5 39.6

85.5 " " " 8.7 38.4

104. " " " 8.9 38.2

150. " " " 9.5 37.6

191+75.6 = W. side shed

33.8 Lt of ϕ = S.W. cor 5.9 41.2

52. " " " 6.7 40.4

85.5 " " " N.W. cor 8.2 38.9

104. " " " 8.4 38.7

150. " " " 10.2 36.9

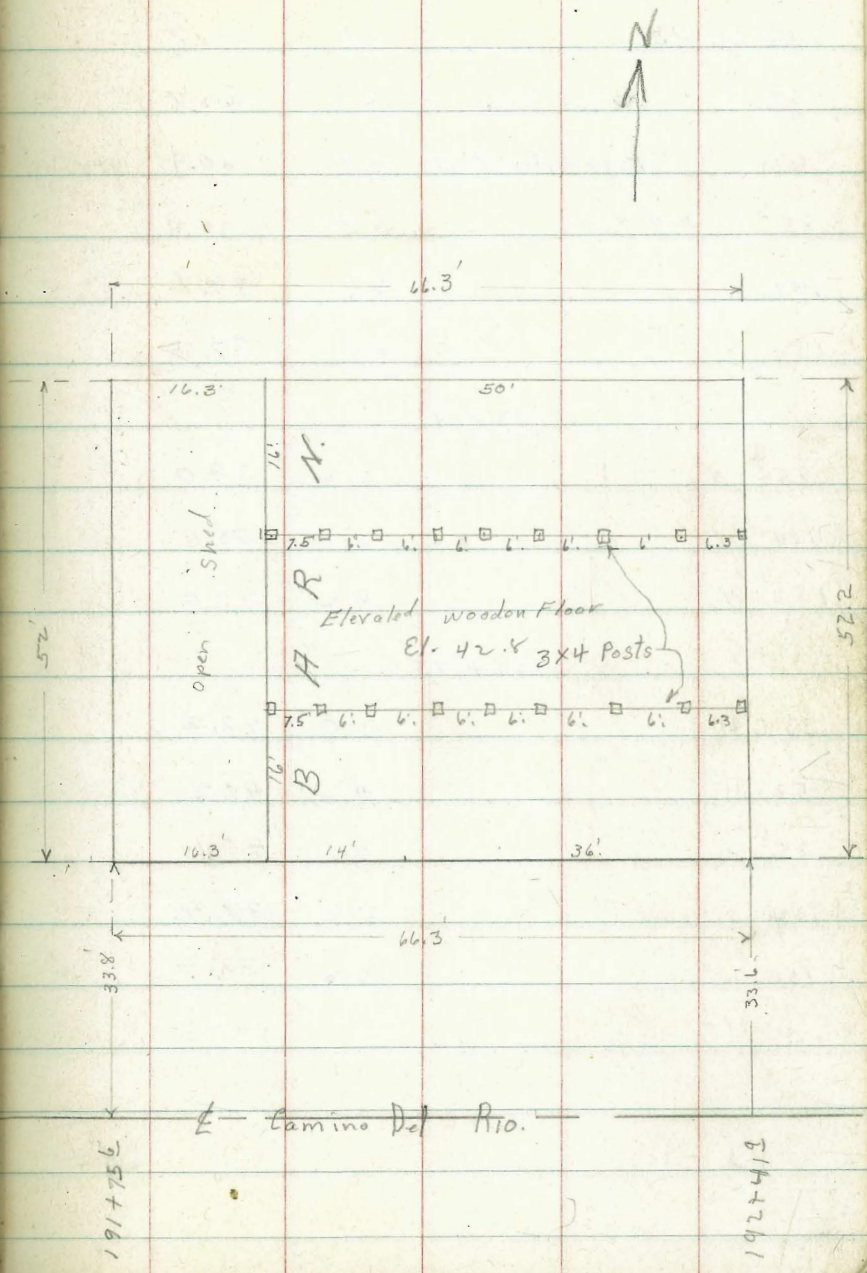
192+19

33.6 Lt of ϕ 5.5 41.6 inside + outside of Barn

192+41.9 = E. side Barn

33.6 Lt of ϕ = S.E. cor Barn 5.4 41.7

T.P. 3.87 45.18 5.80 41.31



45.18
1927+18

52. ht	of	4.5	40.7	
63. "	1" Raised floor	2.4	42.8	
65.4	1" High water Mark	4.8	40.4	ground
85.6	= N.E. Cor	5.8	39.4	
104. N		6.1	39.1	
150. N		8.0	37.2	

192+19

85.8	N	6.2	39.0	
104.	N	6.5	38.5	
150.	N	8.2	37.0	

192+75

33.6	ht	3.0	42.2	
52.	"	4.0	41.2	
85.6	"	5.1	40.1	
104.	"	5.8	39.4	
150.	"	8.0	37.2	

Sixth St. South
 from Camino del Rio
 Lt Rt

49

B.M. #8 5.46 28.82 23.36

B.M. 4.28 24.54 27.40 S.E. Cor. Double 5x3 Box

51+80 27.40

52 27.08

+20 26.84

(X) +40 F0.3 26.67

F0.9
 26.0

26.4
 2.4

F0.3
 29.0 (10)

+60 26.58

53 F0.83 26.48

F1.2
 27.0

26.9
 3.13

F1.1
 29.5 (10)

+50 F1.24 26.36

F1.4
 28.1

25.12
 3.70

F0.8
 28.8 (9)

+85⁰⁵ P.O.T 26.22

28.82

54

F 1.68 26.19

24.51
4.31

F 0.8
27.4 (7)

+50

F 1.99 26.06

24.07
4.75

F 1.5
25.4

+64⁶⁶

26.02

55

F 2.14 25.91

23.77
5.05

F 1.2
25.4

+55⁷⁹

F 2.22 25.79

F 3.8
28.4

23.65
5.27

F 1.6
25.7

56

F 2.01 25.65

F 4.3
28.4

23.64
5.18

F 1.5
25.7

+50

F 1.60 25.52

F 4.0
27.5

23.92
4.90

F 1.2
25.4

+76⁶⁸

F 1.67 25.49

F 4.8
30.5

23.82
5.00

F 0.5
25.2

57 +00

F 1.95 25.43

F 1.0
24.5

23.87
4.95

F 0.7
25.7

Rt.

28.82

57+25

F1.55 25.42

23.87
4.95F1.0
24.8

+50

F1.56 25.41

23.85
4.97F2.5
25.1

+75

F1.53 25.70

23.87
4.95F1.5
24.0

58

F1.78 25.50

23.72
5.08F2.8
24.8

+25

F 2.07 25.89

23.82
5.00F2.4
25.1

+50

2.41 26.30

23.89
4.93

+75

2.66 26.60

23.94
4.88

59

23.82
5.0

Sta	+	H.I.	-	Elev
-----	---	------	---	------

B.M. 8	4.70	28.06		23.36
--------	------	-------	--	-------

B.M.		2.68		25.38
------	--	------	--	-------

Spike in power pole

Survey for Drainage R. of W. Camino
Del Rio + 6th Ave Extension

continued Page 60

5+83 P.O.T. Hub.

3+67 N. End. shed.

3+30 N. End Pump House 2.6 Lt.

2+19 S. End. Pump House 6" steel Pipe 9.6 Lt.

3+10 Conc. Pipe Stand Pipe 24" Diam 5' Lt

3+07 S. End shed Elec Pole 2.5 Lt.

3

2+38 N. edge garden Fence 17' Lt

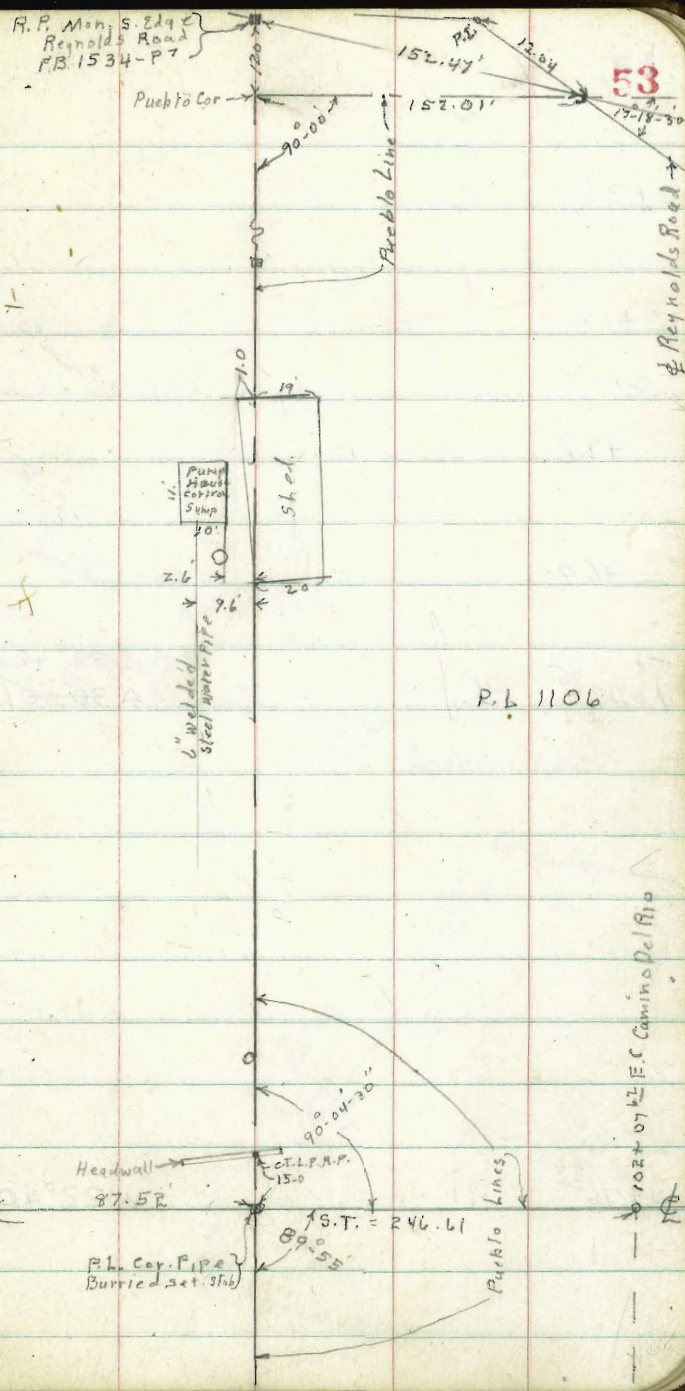
1+28 Palm 27' Lt

1+05 Elec Pole 22' Lt

0+79 Eucalyptus 24" Diam 1.2 W. of P.L.

0+15 S. End. B.W. Fence 20' Lt

0+00 Pueblo Cor. of Camino Del Rio Produced Westly.



2+35

2+18

2+00

+87

+64

1+49⁸⁵ P.I. $\Delta 30^{\circ}18'W$ $\Delta 32^{\circ}42'L$ $\Delta 30^{\circ}50'L$ 0+76²⁸ P.I. $\Delta 22^{\circ}40'L$

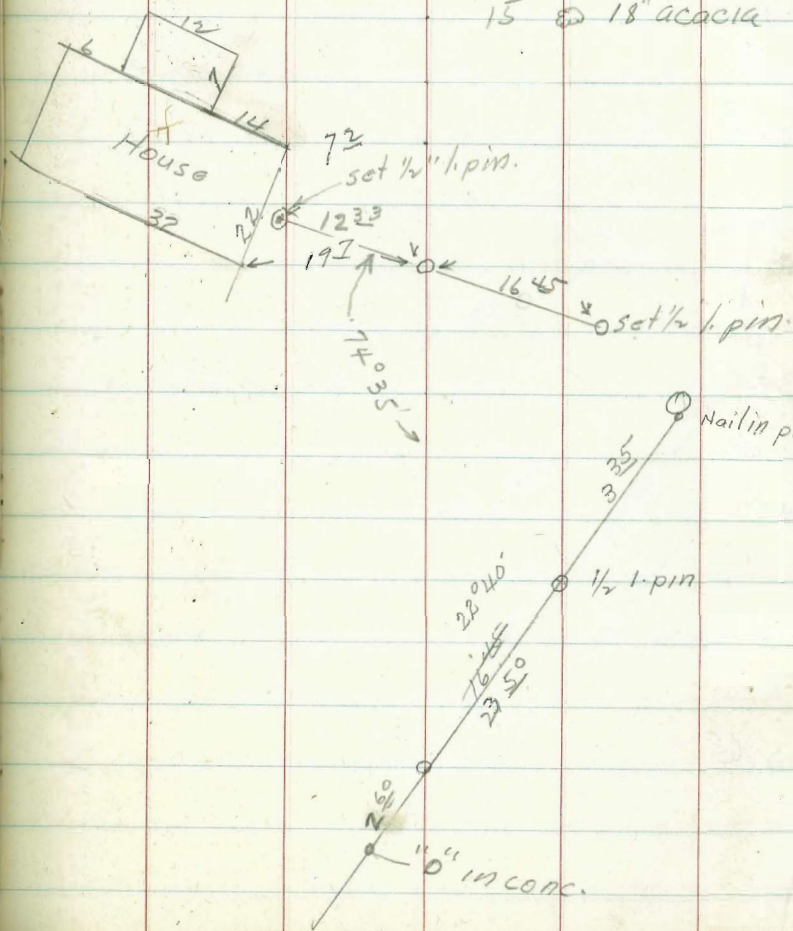
7' Hyd.

Apricot @ 5

@ 5⁹⁰

621

15 @ 18" acacia



2+84⁹⁷

2+74⁹⁷ & P.I.

2+78⁹⁷ P.I.

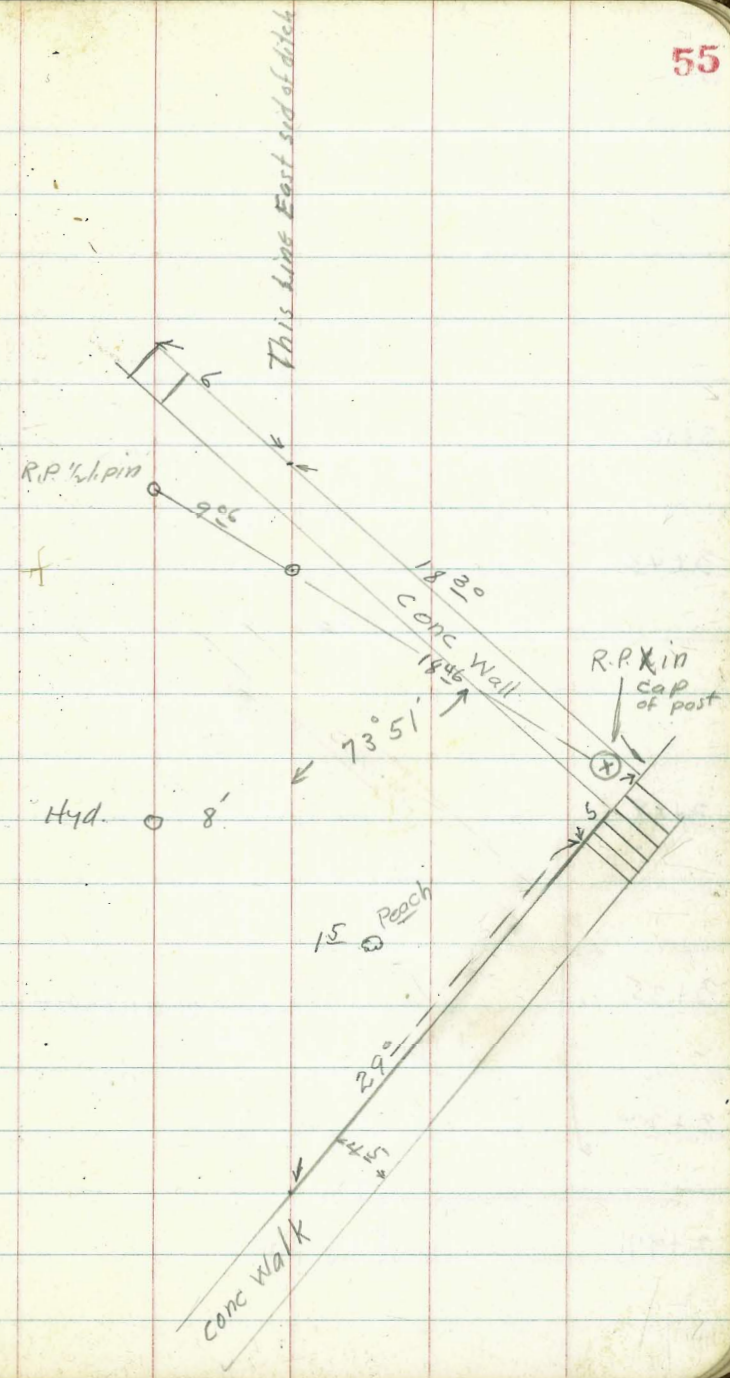
2+59

2+52

2+45⁶⁵

$\Delta 33^{\circ} 30' R$

$\Delta 32^{\circ} 18' R$



3+50

3+43

3+19

3+35

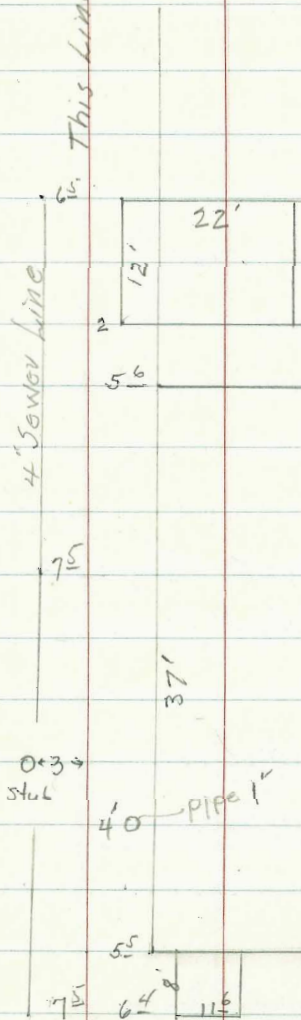
3+24

2+97

X

S.D. G. G. I. E. 79303 0 6 0+3 →
stul

This Line East Side of ditch



5+00

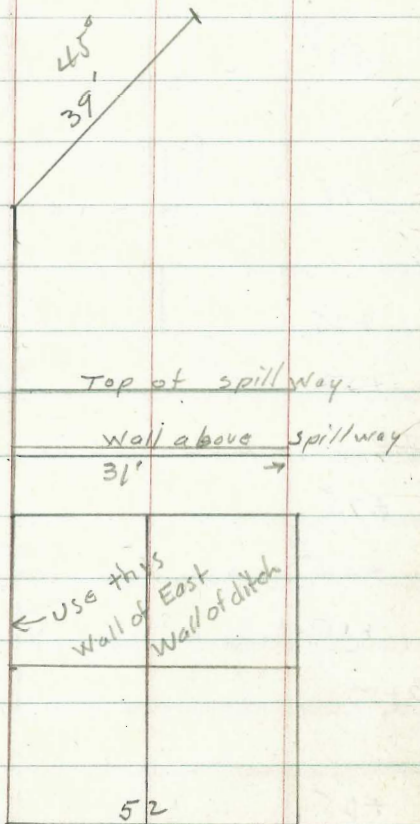
4+67

+65

4+55

4+24

3+93



66.22
3.49
62.73

Sta	+	H.I.	-	Elev
B.M	1.84	66.22		64.38 El.
1+00				53.93 C 10.62
+25				52.80 C 11.29
+49 ⁸⁵				51.68 C 11.05
+75				50.55 C 11.18
2				49.43 C 10.87
+25				48.30 C 9.37
+50				47.18 C 7.64
T.P.	2.36	56.18	12.40	53.82
+75				46.05 C 7.35
+84 ⁵⁸				45.63
+85				
3+00				44.94 C 4.27
+25				43.81 C 3.46
				-2.06 Gr.

"X" Manhole

64.55	64.0
1.67	2.2
10.0 R	
64.09	63.0
2.13	3.2
12.0 L	
62.73	60.8
3.49	5.4
12.33 L	
61.73	60.8
4.49	5.4
14.0 L	
60.30	59.2
5.92	7.0
15.0 L	
57.67	56.7
8.55	9.5
15.0 L	
54.86	53.8
14.36	11.4
15.0 L	
53.40	51.1
2.78	5.1
15.0 L	
	50.22
	5.76
	46.80
	9.38
	46.8
	9.4
49.21	46.5
6.97	9.7
8.0 L	
47.27	
8.91	
8.0 L	

Top wall

Bottom of wall

Sta	+	H.I.	-	Elev
+50		56.78		43.30 C2.56
+75				42.78 C2.00
4				42.27 C2.33
+25				41.75 C2.64
+50				41.24 C3.06
<hr/>				
+71				40.8 C2.2
P.M.	0.44	63.17		62.73
144 ⁸⁵			11.49	51.68
T.P.	1.33	51.52	12.98	50.19
		49.43		
2+00			2.09	49.43
+50			4.34	47.18
+84 ⁵⁸			5.90	45.62
3		51.47		
+25				43.81
+50				43.30
+75				42.78

45.86	45.6
10.32	10.6
8.04	
44.78	43.5
11.40	12.7
8.04	
42.2	44.50
44.0	11.68
41.9	44.39
14.3	11.79
41.8	44.30
14.4	11.88

Top of wall

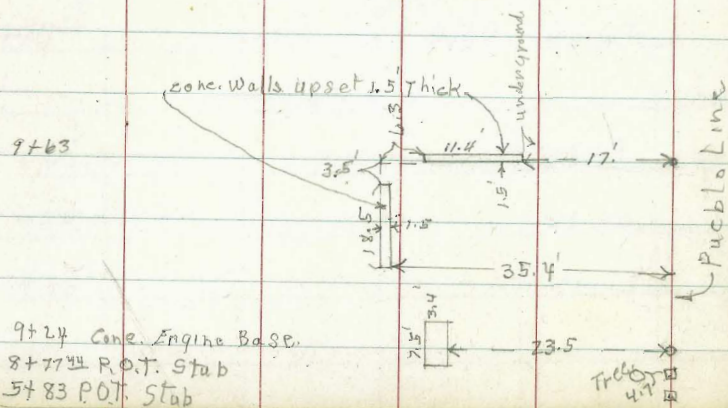
41.5	43.00	40.7
14.7	13.18	15.5
		36.18
		20.0

Top of slope wall.
ground.

IMPROVED
AND
INFORMATION

$$\begin{array}{r} 34.7 \\ 28.4 \\ \hline 6.3 \end{array}$$

IMPROVED TABLES AND INFORMATION



DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope $1\frac{1}{2}$ 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.

TABLE No. 9.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections.

Degree of curve with a given I may be found by dividing tangent, (or external), opposite I by given tangent, (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

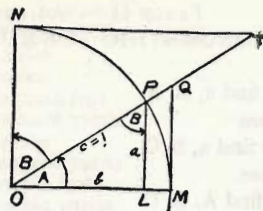


TABLE II
TRIGONOMETRIC FORMULÆ.

$$\angle A = \angle MOP \quad \angle B = \angle PON = \angle OPL$$

$$R = OB = c = 1$$

$$\sin A = \frac{a}{c} = \frac{a}{1} = a = \cos B = LP$$

$$\cos A = \frac{b}{c} = \frac{b}{1} = b = \sin B = OL$$

$$\tan A = \frac{a}{b} = \frac{MQ}{OM} = \frac{MQ}{1} = MQ = \cot B = MQ$$

$$\cot A = \frac{NT}{ON} = \frac{NT}{1} = NT = \tan B = NT$$

$$\sec A = \frac{OQ}{OM} = \frac{OQ}{1} = OQ = \csc B = OQ$$

$$\csc A = \frac{OT}{ON} = \frac{OT}{1} = OT = \sec B = OT$$

$$\text{vers } A = \frac{LM}{OP} = LM = \text{covers } B \#$$

$$\text{covers } A = \frac{OP - LP}{OP} = OP - LP = \text{vers } B$$

$$\text{exsec } A = PQ = \text{coexsec } B$$

$$\text{coexsec } A = PT = \text{exsec } B$$

$$\sin \frac{1}{2} A = \sqrt{\frac{1 - \cos A}{2}} \quad \cos \frac{1}{2} A = \sqrt{\frac{1 + \cos A}{2}}$$

$$\sin 2A = 2 \sin A \cos A \quad \cos 2A = \cos^2 A - \sin^2 A$$

$$\text{Law of Lines} \quad \frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

$$\text{Law of Cosines} \quad c^2 = a^2 + b^2 - 2 ab \cos C$$

$$\text{Law of Tangents} \quad \frac{a+b}{a-b} = \frac{\tan \frac{1}{2} (A+B)}{\tan \frac{1}{2} (A-B)}$$

15.5
43
200

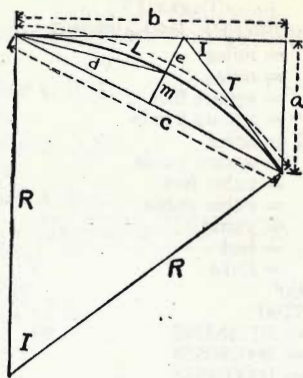


TABLE V
CURVE FORMULAE FOR SIMPLE CURVES
COMPILED BY J. CALVIN LOCKE, C.E.

- (1) $c = \sqrt{2Ra}$ (2) $c = \sqrt{a^2 + b^2}$
 (3) $c = \sqrt{2R(R - \sqrt{(R+b)(R-b)})} = \sqrt{2R(R - \sqrt{R^2 - b^2})}$
 (4) $c = 2\sqrt{m(2R - m)}$
 (5) $c = 2R \sin \frac{1}{2} I$ (6) $c = 2T \cos \frac{1}{2} I$
 (7) $e = R \operatorname{exsec} \frac{1}{2} I$
 (8) $e = R \tan \frac{1}{2} I \tan \frac{1}{4} I$ (9) $e = T \tan \frac{1}{4} I$
 (10) $b = \sqrt{a(2R - a)}$
 (11) $b = \sqrt{\left(c + \frac{c^2}{2R}\right)\left(c - \frac{c^2}{2R}\right)} = \sqrt{c^2 - \frac{c^4}{4R^2}}$
 (12) $b = R \sin I$ (13) $b = a \cot \frac{1}{2} I$
 (14) $R = \frac{a^2 + b^2}{2a} = \frac{c^2}{2a}$ (15) $R = \frac{d^2}{2m} = \frac{c^2 + 4m^2}{8m}$
 (16) $d = \sqrt{R(2R - \sqrt{(2R+c)(2R-c)})} = \sqrt{R(2R - \sqrt{4R^2 - c^2})}$
 (17) $d = \sqrt{2Rm}$ (18) $d = 2R \sin \frac{1}{4} I$ (19) $m = \frac{d^2}{2R}$
 (20) $m = R \mp \sqrt{\left(R + \frac{c}{2}\right)\left(R - \frac{c}{2}\right)} = R \mp \sqrt{R^2 - \frac{c^2}{4}}$
 (21) $m = R \operatorname{vers} \frac{1}{2} I$ (22) $m = R \sin \frac{1}{2} I \tan \frac{1}{4} I$ (23) $m = \frac{1}{2} c \tan \frac{1}{4} I$
 (24) $a = \frac{c^2}{2R}$ (25) $a = R - \sqrt{(R+b)(R-b)} = R - \sqrt{R^2 - b^2}$
 (26) $a = 2R(\sin^2 \frac{1}{2} I)$ (27) $a = R \operatorname{vers} I$ (28) $a = R \sin I \tan \frac{1}{2} I$
 (29) $a = b \tan \frac{1}{2} I$ (30) $a = T \sin I$ (31) $T = R \tan \frac{1}{2} I$
 (32) $I = \frac{L}{R} \times 57.295780$ (33) $R = \frac{L}{I} \times 57.295780$
 (34) $L = IR \times 0.01745329$ (35) $L = \frac{8d - c}{3}$
 (36) $\text{Area Seg.} = \frac{LR - R^2 \sin I}{2} = \frac{LR - Rb}{2}$

TABLE VI
SINES, COSINES, TANGENTS, COTANGENTS

deg.	sin 0'	tan 0'	sin 10'	tan 10'	sin 20'	tan 20'	sin 30'	tan 30'	sin 40'	tan 40'	sin 50'	tan 50'	deg.
0	0000	0000	0029	0029	0058	0058	0087	0087	0116	0116	0145	0145	89
1	175	0175	0204	0204	0233	0233	0262	0262	291	291	320	320	88
2	349	349	378	378	407	407	436	436	465	465	494	494	87
3	523	524	552	553	581	582	610	612	640	641	669	669	86
4	698	699	727	729	756	758	785	787	814	816	843	843	85
5	872	872	901	904	929	934	958	963	987	992	1016	1016	84
6	1045	1051	1074	1080	1103	1110	1132	1139	1161	1169	1190	1198	83
7	219	228	248	257	279	287	305	317	334	346	363	376	82
8	392	405	421	435	449	465	478	495	507	524	536	554	81
9	564	584	593	614	622	644	650	673	679	703	708	733	80
10	736	763	765	793	794	823	822	853	851	883	880	914	79
11	908	944	937	974	965	2004	994	2035	2022	2065	2051	2095	78
12	2079	2126	2108	2156	2136	186	2164	217	193	247	221	278	77
13	250	309	278	339	306	370	334	401	363	432	391	462	76
14	419	493	447	524	476	555	504	586	532	617	560	648	75
15	588	679	616	711	644	742	672	773	700	805	728	836	74
16	756	867	784	899	812	931	840	962	868	994	896	1022	73
17	924	3057	952	3089	939	3121	3007	3153	3035	3185	3062	217	72
18	3090	249	3118	281	3145	314	173	346	201	378	228	411	71
19	256	443	283	476	311	508	338	541	365	574	393	607	70
20	420	640	448	673	475	706	502	739	529	772	557	805	69
21	584	839	611	872	638	906	665	939	692	973	719	4006	68
22	746	4040	773	4074	800	4108	827	4142	854	4176	881	210	67
23	907	245	934	279	961	314	987	348	4014	383	4041	417	66
24	4067	452	4094	487	4120	522	4147	557	173	592	200	628	65
25	226	663	253	699	279	734	305	770	331	806	358	841	64
26	384	877	410	913	436	950	462	986	488	5022	514	5059	63
27	540	5095	566	5132	592	5169	617	5206	643	243	669	280	62
28	695	317	720	354	746	392	772	430	797	467	823	505	61
29	848	543	874	581	899	619	924	658	950	696	975	735	60
30	5000	774	5025	5812	5050	851	5075	890	5100	930	5125	969	59
31	150	6009	175	6048	200	6088	225	6128	250	6168	275	6208	58
32	299	249	324	289	348	330	5373	371	398	412	422	453	57
33	446	494	471	536	495	577	519	619	544	661	568	703	56
34	592	745	616	787	640	830	664	873	688	916	712	959	55
35	736	7002	760	7046	783	7089	807	7133	831	7177	854	7221	54
36	878	265	901	310	925	355	948	400	972	445	995	490	53
37	6018	536	6041	581	6065	627	6088	673	6111	720	6134	766	52
38	157	813	180	860	202	907	225	954	248	8002	271	8050	51
39	293	8098	316	8146	338	8195	361	8243	383	292	406	342	50
40	428	391	450	441	472	491	494	541	517	591	539	642	49
41	561	693	583	744	604	796	626	847	648	899	670	952	48
42	691	9004	713	9057	734	9110	756	9163	777	9217	799	9271	47
43	820	325	841	380	862	435	884	490	905	545	926	601	46
44	947	657	967	713	988	770	7009	827	7030	884	7050	942	45
45	7071	1.0000	7092	1.0058	7112	1.0117	133	1.0176	153	1.0235	173	1.0295	44
60'	60'	50'	50'	40'	40'	30'	30'	20'	20'	10'	10'	10'	43
deg.	cos	cot	cos	cot	cos	cot	cos	cot	cos	cot	cos	cot	deg.

66.22
34.86
11x36

59.88
7.32
34.86

118
33
1.3

179-60
30 50
109-10

2x36

117
35
1.3

TABLE IX. TANGENTS AND EXTERNALS TO A 1° CURVE

Table with columns for angle (1° to 10°), Tangent (T), External (E), and I values for angles 10°, 20°, 30°, 40°, 50°. Includes sub-columns for 10° C, 15° C, 20° C, 25° C, 30° C.

T = R tan 1/2 I, E = R exsec 1/2 I

TABLE IX. TANGENTS AND EXTERNALS TO A 1° CURVE

Table with columns for angle (31° to 50°), Tangent (T), External (E), and I values for angles 40°, 50°, 60°. Includes sub-columns for 10° C, 15° C, 20° C, 25° C, 30° C.

T = R tan 1/2 I, E = R exsec 1/2 I

$0+50 = 4^{\circ} 46' 29''$
 $4^{\circ} 46' 29''$
 $1+100 \quad 9^{\circ} 32' 58''$
 $4^{\circ} 46' 29''$
 $+50 \quad 14^{\circ} 19' 27''$
 $4^{\circ} 46' 29''$
 $2+100 \quad 19^{\circ} 05' 56''$
 $4^{\circ} 46' 29''$
 $+50 \quad 23^{\circ} 52' 25''$
 $4^{\circ} 46' 29''$
 $3+100 \quad 28^{\circ} 38' 54''$
 $1^{\circ} 40' 09''$
 $30 \quad 19 \quad 03$

375
 375
 $\hline 1875$
 2625
 1025
 $\hline 30625$

3+17 48

$179-60$
 3218
 $147-42$
 $73-51$

76.28
 23×72
 $\hline 1656$
 11860
 9488
 $\hline 106740$

$343.77-0$
 $1718 \quad 8.50$
 120
 518
 450
 388
 360
 29
 11860
 9488
 $\hline 2372$

63.5
 19
 $\hline 44.5$

11×05
 1945
 $\hline 1900$

4381
 1387
 $\hline 5768$
 450

$2+84.58$
 76.28
 $\hline 208.34$
 10415
 8332
 $\hline 9.3735$

64
 21
 $\hline 85$

343.77
 17.48
 $\hline 275016$
 137508
 240639
 34377
 $\hline 60090996$
 60
 0009

$179-60$
 3218
 $\hline 147-42$
 $73-51$
 2185
 $0+76.28$

$2+08.72$
 $55.0-$
 9.37
 $\hline 45.63$

94-17 E ton

19.71
 814.44
 $\hline 834.17$

60
 400
 00
 00

$3+84.58$
 76.28
 $\hline 3+08.30$
 45
 15415
 12332
 $\hline 13.8735$

17542