

NAME _____

Class _____ Course _____ Party _____

632
251

W251
FIELD NOTES

No. 403P

ESPECIALLY ADAPTED
TO THE USE OF
ENGINEERING STUDENTS

EUGENE DIETZGEN Co.

MANUFACTURERS

DRAWING MATERIALS

MATHEMATICAL AND SURVEYING INSTRUMENTS

MEASURING TAPES

CHICAGO SAN FRANCISCO NEW YORK
NEW ORLEANS PITTSBURGH

#251

MICROFILMED

JUN 1 1964

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Prentice property boundaries -	2-6
Cross-section of San Dieguito River Valley along South Bdry of Prentice tract Lockwood Mesa to Torrey Pines pipe line changes	9-11-12 13-14-15-16
Lockwood-Mesa-Torrey Pines P.L. line chg. at San Dieguito River	17-22
SAN PASQUAL - TIZS RIW - Gaging Station - GUEJITO CREEK	} Book 13
ROAD ALIGNMENT TO GAGING STATION GUEJITO CREEK	33-34 ✓

Level's to Establish 395 contain

thru Prentice Tract

Feb. 16-28

P.O. 6
A. Leach
R. Simpson

v

	+	H.I.	-	341.04	BM #43 on old well curbing - on
	8.63	349.67			
TF			0.27	349.40	Top of nail
	11.27	360.67			
TF			0.14	360.53	
	11.97	372.50			
TF			0.36	372.14	
	5.39	377.53			
TF			4.20	373.33	
	10.61	383.94			
TF			0.24	383.70	
	12.87	396.57			
TF			1.57	395.00	
	10.00	405.00			
TF			10.00	395.00	
	2.30	397.30			
TF			2.30	395.00	
	11.99	406.99			
			0.25	406.54	
	13.11	419.65			
			0.21	419.44	Saddle
	3.17	422.63			
			13.00	409.63	
	4.35	413.98			
			11.16	402.82	
	3.60	406.42			

= B.M. Nail in Hub on Fence Line
Entering Prentice property, East
side of County Road.

Turning over Ridge to South side

= S.E. corner of Nursery

3/13/33

3

		341.04	B.M. #
2.65	342.15	<u>339.5</u>	ground
		0.23	
12.74	354.66	341.92	
		0.76	
12.13	366.03		
		3.06	
4.20	357.47		
		12.25	
3.81	348.72		
10.33	348.83	10.23	338.50
9.17	355.46	2.54	346.29
8.72	354.32	9.86	345.60
6.13	349.69	10.76	343.56
2.27	339.55	12.41	337.28
B.M.		4.02	335.53

63 Note: the well curbing is caved in, destroying the B.M. entirely

Profile of San Diego River Bottom
 on south line of Prentice tract
 000 refers to intersection of south
 line of tract with east boundary of San Bernado
 Rancho see Page 7

BM 1.27 336.80 335.58

13+00 on red soil land rises gradually
 to west 8 334.9

12+00 5.7 331.1

11+00 4.6 332.2

10+50 6.4 330.4

10+00 4.6 332.2

9+00 5.6 331.2

T.P 3.96 335.49 5.27 331.53

8+00 3.7 331.8

7+00 5.7 329.8

6+60 center west
 channel river 6.1 329.4

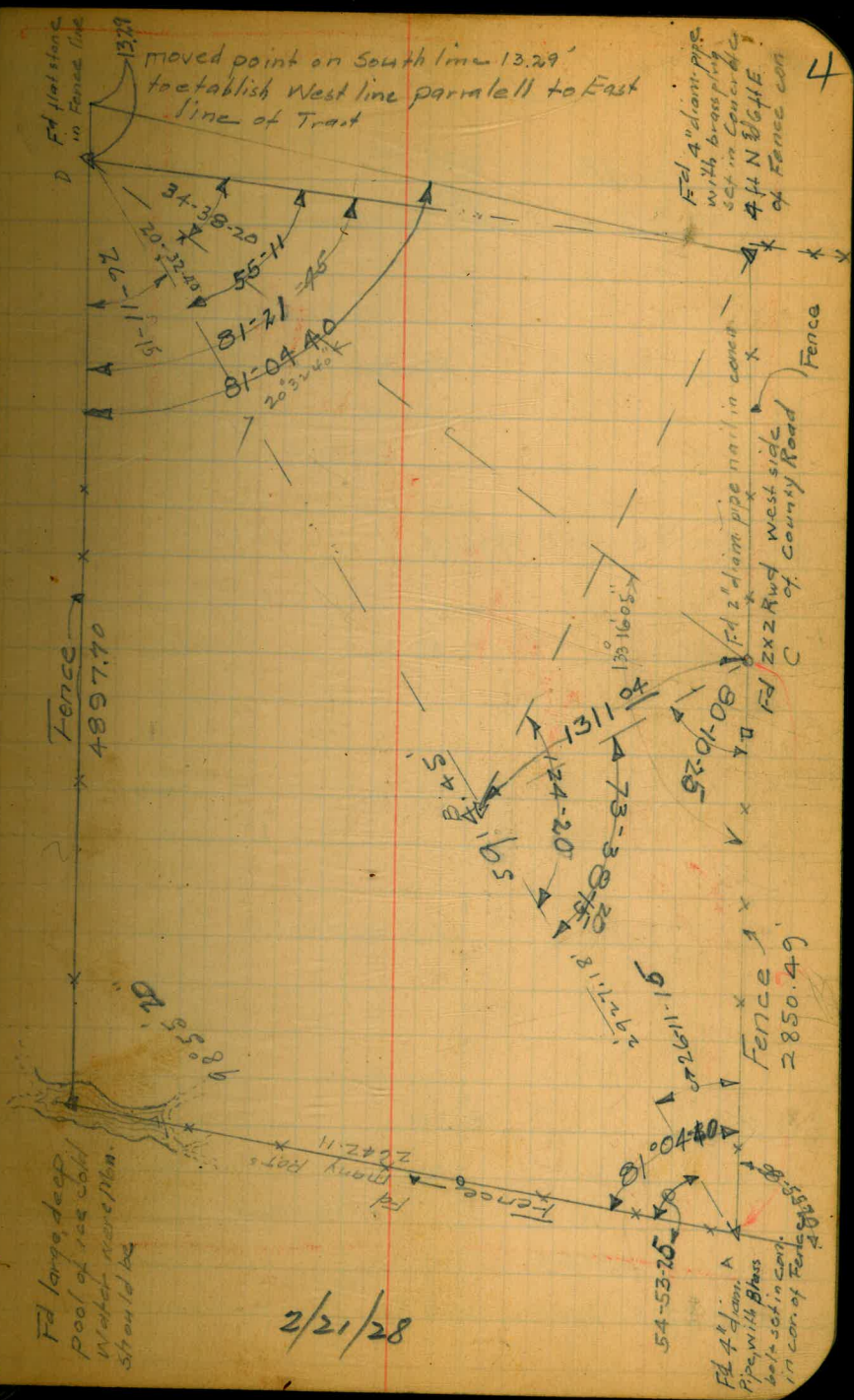
6+00 4.4 331.1

5+00 5.5 330.0

T.P 4.70 335.08 5.11 330.38

cont on page 8

79-58-60
 80-10-25
 99-48-35
 40-41-40
 50-31-15
 29-28-45
 12-20
 13-38-20
 30-41-40



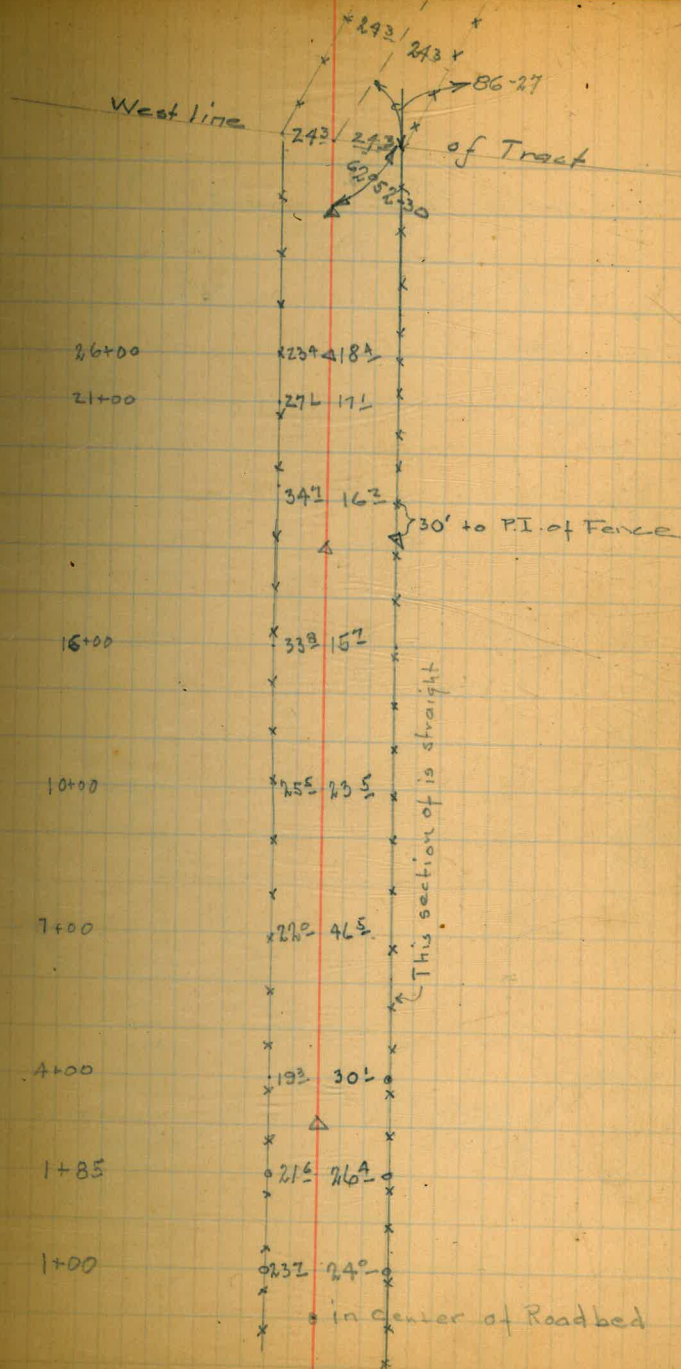
Fd large deep
 pool of ice cold
 water near P.M.
 should be

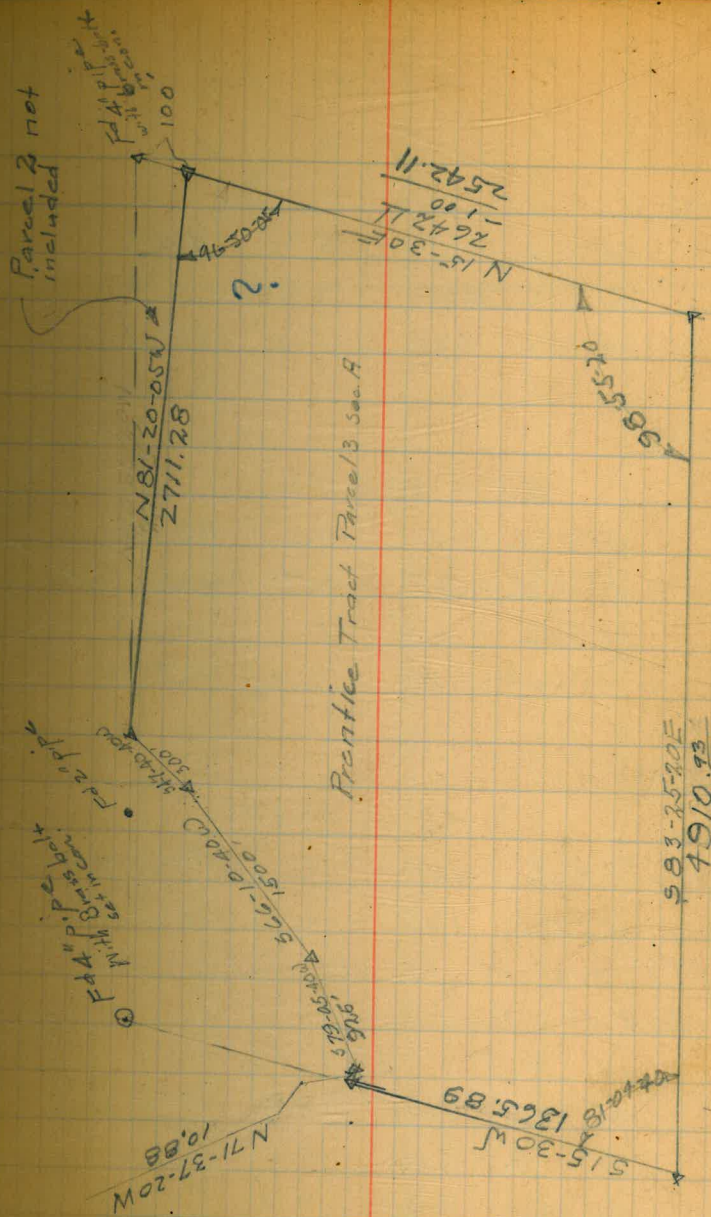
2/21/28

4

Rerunning Recorded distances and angles

	L ^t	R ^t
27+39 ⁰⁰	PI with West Prop. line	117-07-30
		578-22-30W
27+25	0°43-10	
		579-06-40W
18+00	12°55	
		566-10-40W
3+00	18°30	
		577-40-40W
0+00	48°54	N83-25-20W
0+00 = 2725' West on North Bay in center of County Road		





~~H.I. = 336.90~~

~~T at 10+90~~

A	D	R.	EI.
54°30' L	420	5.2	331.5
68°20' L	400	6.8	329.9
84°30' L	390	5.0	331.7

~~T at 7+20~~

~~H.I. = 335.39~~

67°0' L	300	4.6	330.8
77°0' L	295	6.9	328.5
102°0' L	225	4.6	330.8
81°30' R	250	6.2	329.2

~~T at 1+90~~

~~H.I. = 334.98~~

94° R	100	0.0	329.0
77°30' L	165	6.0	329.0

~~T 72' east of pt of intersection
toe of high hill~~

~~H.I. = 337.96~~

68°30' L	140	8.3	329.7
81° L	310	9.1	328.9
86°40' L	430	9.3	328.7
104°20' L	233	8.0	330.0

7

54° 10+90

Center west channel San Diego River

Center of east Channel San Diego River

" " " " " " "

Profile of south line of Proctor
Tract cont from Page 4

335.08

4+00		4.9	330.7
3+00		4.4	330.7
2+00		4.9	330.7
1+70	cut of east channel.	6.4	328.7
1+00		4.9	330.7
T.P.*	7.25	338.06	4.27 330.81
0+00		4	328.7
T.P.	12.76	350.17	0.65 337.41

12.93	361.62	1.38	348.79
12.74	372.68	1.68	359.94
12.27	383.10	1.85	370.83
12.05	395.15	0.00	383.10

H.W. & Lath on contour?		5.83	389.32
R.W. Hub on contour?		0.20	394.95
T.P.		5.79	

5.00

Levels From lake level

9.12	324.12		315.00
2.46	324.83	1.75	322.37
5.45	325.54	4.74	320.09
8.62	330.49	3.67	321.87
5.73	331.08	5.14	325.35
3.58	330.34	4.32	326.76
3.75	327.56	6.53	323.81
4.52	327.76	4.32	323.24
6.23	330.67	3.32	324.44
5.16	331.07	4.76	325.91
5.18	332.21	4.04	327.03
5.17	333.36	4.02	328.19
8.58	338.18	3.76	329.60
		7.60	330.58

T.P. X

B.M

4.12 334.06

Page 8
330.58

3/14/33

Gotschling
Laddon
Osborn

9

Assumed at 10⁰⁰ AM. O.K. on passing
dam by 4 pm water was seen to pass
spillway lip.

Spilke in Power pole #11,687 250' S of
point of intersection Prentice south
line and Rancho San Bernardo

Pages			
T.P.x	4.05	334.63	330.58

Mat	1+25	HI = 334.68	
	Angle	dist	Red
1+70	on line	5.86	
	58°40' R	118	5.69 328.94
	57°40' R	270	5.60 329.03

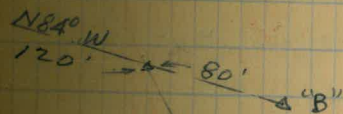
Mag.
N 41°15' W 276 5.40 329.23

"B" +6.85 336.08 329.23

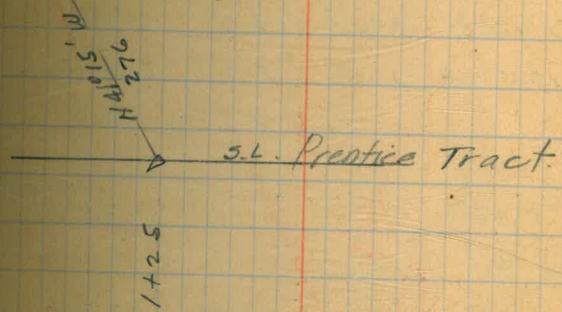
"C" 200 6.95 329.13

Handwritten notes:
 5c
 5c
 5c

C
D



A
N
L



Profile of Southline of F.M. White Tract

3/13/83 POC
R.E. Loudon
F. Osborne

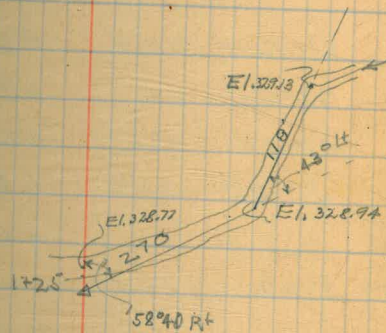
11

	Δ	D	-R	El.	
	7.25	337.83		330.58	
π at 0+72 (east of P.I.) H. 1 337.8					
0+00			9.4	328.4	in pond
	68°30L	140	8.3	329.5	
	81°00L	310	9.1	328.7	
	86°40L	430	9.3	328.5	
	104°20L	235	8.0	329.8	top of slope
0-72	-	-	4.5	333.3	" " "
1+00	-	-	7.8	330.0	
				330.58	

π at 1+25 4.05 334.63 H. 1					
1+70			5.86	328.77	in channel 40' wide on line
1+25	58°40R	118	5.69	328.94	" " " to right
1+25	57°40R	270	5.60	329.03	" " " " "
T.P. 270 R.			5.40	329.23	
	6.85	336.08			
			6.95	329.13	" " "
				330.58	
4.27 334.85 H. 1					

π at 1+90					
	94°00R	100	6.0	328.8	in channel
	77°30L	165	6.22	328.63	" "
2+00			4.9	330.0	
3+00			4.4	330.4	
4+00			4.9	330.0	
	5.11	335.26	4.70	330.15	

0+00 = P.I. of South line of tract with
East line of San Bernardo Ranch
for deflection angles South line is zero defl.



Profile of south line of White Tract continued

2/14/33 P.O.G.
London
Osborne

12

Sta.	Δ	D	-R	El.	
At 7+20		335.26	1.1		
5+00			5.5	329.8	
6+00	>		4.4	330.9	
6+60			6.1	329.2	center of west channel.
7+00			5.7	329.6	
8+00			3.7	331.6	
			3.96	331.30	
	67°00 Lt	300'	4.6	330.7	
	77°00 Lt	295'	6.9	328.4	in ditch
	102°00 Lt	275'	4.6	330.7	
	81°30 Rt	250	6.0	329.3	" "
			3.96	331.30	
At 10+90	5.27	336.57	1.1		
9+00			5.6	331.0	
10+00			4.6	332.0	
10+50			6.4	330.2	
	84°30 Lt	390'	5.0	331.6	
	68°20 Lt	400'	6.8	329.8	
	54°30 Lt	420'	5.2	331.4	30' east of toe of slope
11+00			4.6	332.0	
12+00			5.7	330.9	
13+00			1.8	334.8	on red soil long gradual slope to toe of slope of hill

Del Mar Section of city Pipe
line near transformer Sta.
about 1/2 south of Lostwood Res.

	12.65	22.60	9.95	BM on TPole west of junction
①			11.3	11.3 on pipe
②			8.6	14.0 "
③			6.6	16.0 "
④			4.2	18.4 "
	13.20	35.80	0.00	22.60
⑤			15.67	20.1 "
⑥			12.7	23.1 "
⑦			8.4	27.4 on ground
⑧			1.1	34.7 "
⑨			+1.95	37.75 on pipe

note: All lin. measurements taken
from Ref. W stakes as no ϕ
data exists in the field

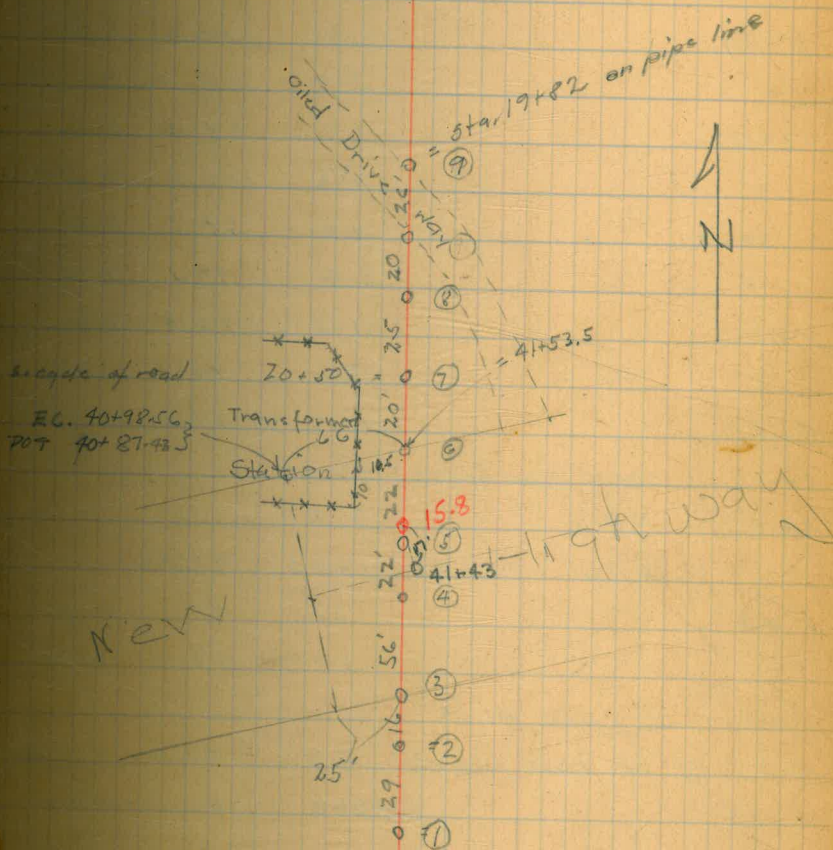
41+38 pipe 10" x 5" sing cl. 18.4 check
 ϕ grade 17.2 on ϕ
16.8
41+43
17 ft out 15.8 bottom of drain

3/15/33

13

P.O.C. R.E. Jordan - F. Osborne

TPole west of junction



41+43 17 Lt pipe must clear el. 15.8
data from county Surveyors office 3/14/33

Del Mar Section near new
Bridge north of Del Mar

3/15/33

11

P.O.
R.E. London
F. Osborne

	6.52	106.52	100.00 = Top of	Cast iron section
0+00		5.4	101.1	Road Grade
"		6.1	100.4	35' Left
1+00		6.2	100.3	R.G.
"		5.7	100.8	35' Lt
2+00		7.0	99.5	R.G.
"		5.8	101.2	35 Lt
3+00		9.2	97.3	R.G.
"		8.4	97.1	35 Lt
4+00		11.6	94.9	R.G.
"		10.4	96.1	35 Lt
4+60		12.2	94.3	35 Lt Top of exist. pipe
4+72	Cor of Warehouse	4' Lt		
4+77	P. Pole	3' Rt		
	4.16	97.68	13.00	93.52
5+00		4.6	93.1	R.G.
"		5.7	92.0	35 Lt
5+15	Stump pole	4' Lt		
5+22	¢ of spur track	6.0	91.7	Top of rail
6+00		6.2	91.5	R.G. = Road Station 24+00±
"		6.6	91.1	35 Lt
6+10		6.9	90.8	35 Lt South bank of slough
6+26		11.9	85.8	35 Lt water edge
	Bridge Floor	4.5	93.2 = 09.5	county elev.

data from county surveyors office 3/14/33

5.67 BM - steel pin 40 Lt Sta. 30+00
22.28 BM. " " Rt " 20+00

Profile continued

15

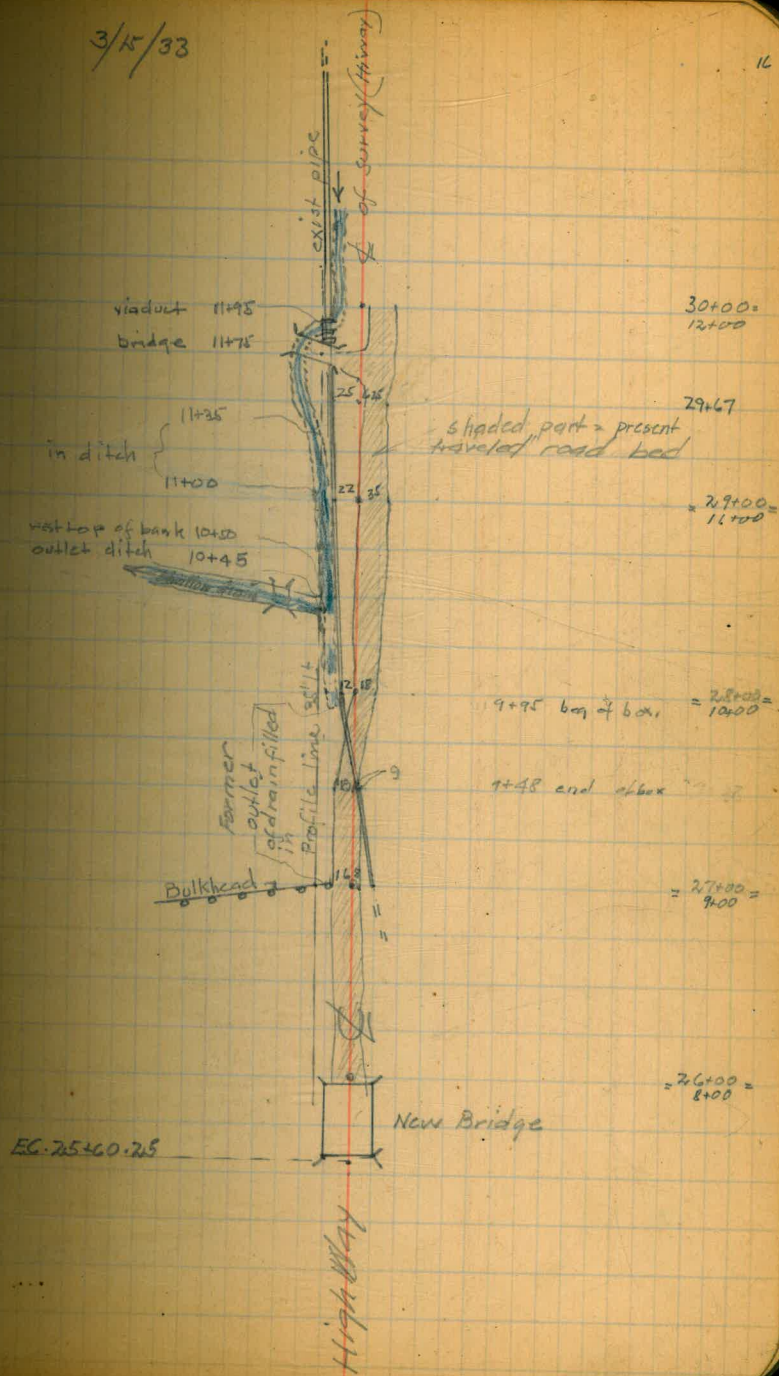
97.68

9+00		2.5	94.2	R.G.	
"		13.5	84.2	35' Lt	} Bulkhead
"		6.3	91.4	35' Lt	
9+60		5.2	92.5	35' Lt	
10+00		3.8	93.9	R.G.	
		8.5	89.2	35' Lt	
10+40		8.9	88.8	35' Lt	
+45		12.8	84.9	35' Lt	in drainage ditch
10+50		8.9	88.8	35' Lt	
11+00		5.6	92.1	R.G.	
11+00		12.0	85.7	35' Lt	in drainage ditch
11+35		12.0	85.7		
11+44		7.7	90.0	35' Lt	
11+75	E of Golf bridge				
11+95		12.2	85.4	35' Lt	in drainage
12+00		10.2	87.5	35' Lt	
12+20		10.2	87.5	35' Lt	
" "		7.0	90.7	35' Lt	Top of pipe found stake on pipe (55+00 P=7.3)

Sketch of Condition
at new bridge

3/15/33

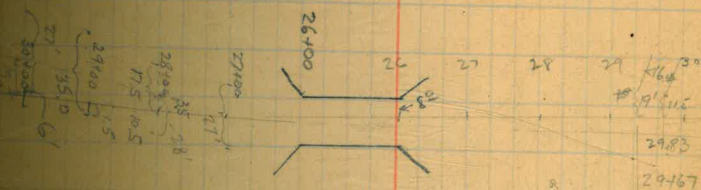
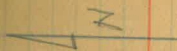
16



San Dieguito River Crossing
Location of Existing Road.

Sta.	Width travelled Road	Remarks
26+00		N End bridge 37' E of π
27+00	27'	4' on base 42' E
28+00	28'	7' on base 3.5' W base
29+00	35'	7.15' W base 3' 0.5' E
30+00	27'	24.5' W base
21	41	base pt 143' W of Wedge
22+00	39	base pt 15' 6' E of Wedge
23+00	37'	base pt 18' E of Wedge

8-17-33
P. Boermann 17
N. Coode
F. Lauterbach

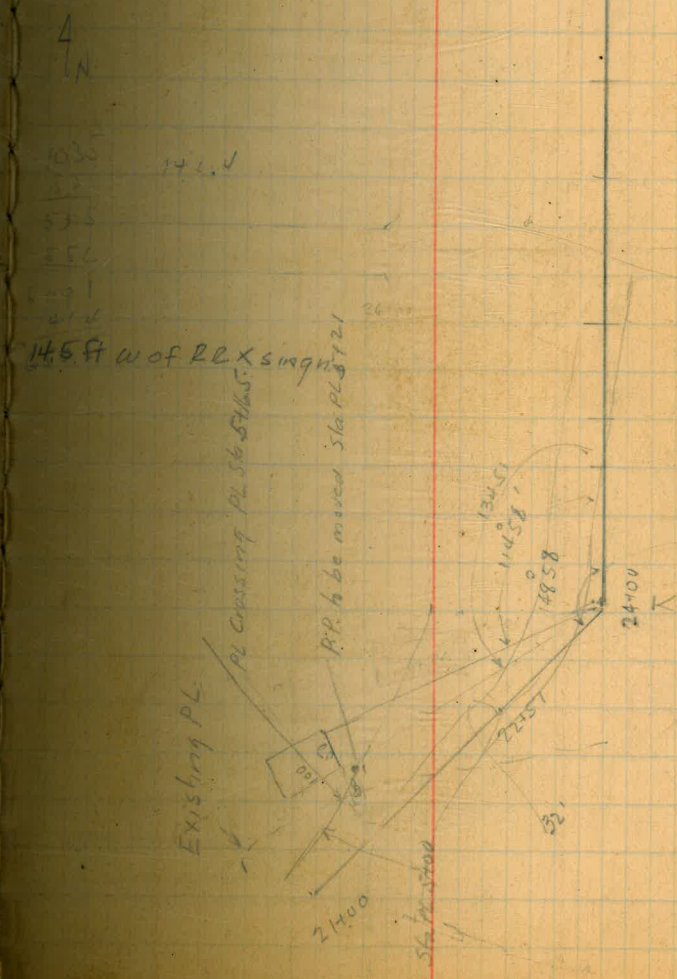


San Dieguito River Crossing
 Location of existing Road and Proposed Pipe Line Crossing

Base line

24+00		30+00	backsight
148°58' L		21+00	Fore
297.97		30+00	backsight
360	138.5'	114°58'	NE cor. Wood
53.35			
360.15	147.3	134°51'	SE ✓
73.28			
24+00		B.S. 30+00	
140°53' L	161.2	5+00	
133°22' L	108.5	5+55.6	NE edge of
112°13' L	64.3	6+09.1	
72°20' L	52.4	6+50.5	
		6+32.3	NE edge of
		6+26.5	S Rail
H.I.			E.I.
24+00	15.23	5+23	10
		5+15	10.18
		5+03	10.70
		5+55	9.62
		4	14.8
		1.41	13.87
		5.35	9.88
		5.10	10.13
		J.56	9.67
		10.46	4.79
		6+70	Water edge

360	155	360	148
53.35	77	73.28	97
412.35	58	433.28	51
297.97		297.97	
114°58'		134.5'	
		650.5	650.5
		182	24
		632.3	626.5



	HI			EI.
X 24+00	15.23	1.55	22+00	13.68
	2	4.5	23+00	10.7
		4.9	24+00	10.3
		3.1	25+00	12.1
		3.42	26+00	11.81

	HI 17.77 5.96			
X 27+00		4.9	27+00	12.9
		4.9	28+00	12.9
		7.4	29+00	10.4
		9.5	30+00	8.3

B HI 4.9 HI 14.80 = 14.80
7 19.7 B San 5+00

8.1 on pipe in road off pole.
4.11.5 pole.

1181
586
1777

\bar{A} 27+00 HI 17.77 El
 132°28'R to 24+00 BSight
 27+00 to A 1+00 42.19'
 -6.5 A 1+00 11.3

162°19'E A 1+60.4 93.18'
 5.4 12.4

7.2 A 0+82 El. 10.6 10.6
 12.4 at bottom El. 5.4 E 5.4
 0+79 Balkhead

6.5 A 1+33 El. 11.3 N side of
 Drive to
 Golf Course
 5.55 12.22 T.P.

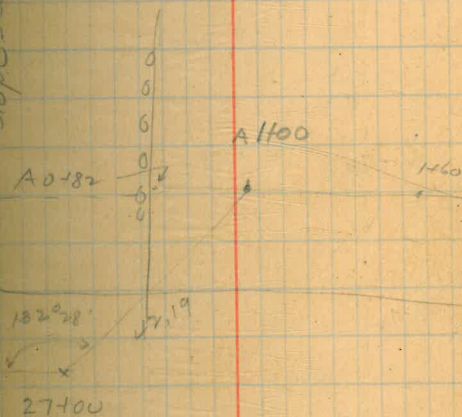
B HI 39.5
 16.17
 6.6 A 1+55 9.6
 8.0 A 1+71 8.2
 12.1 A 1+95 4.1
 11.5 A 2+15 Road 4.7
 8.2 A 2+27 out of Gully 8.0
 8.2 A 2+53.6 on WS pipe ground 8.0
 6.6 " WS pipe ground 9.6

Check on B.M. 6.28 10.00

HI = 16.38 02

AH00 = 12' N of Travelled edge of Road.

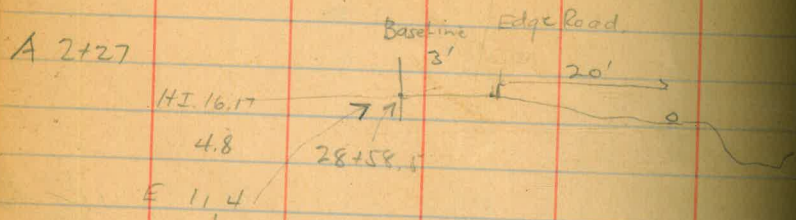
General line base of slope = edge of work



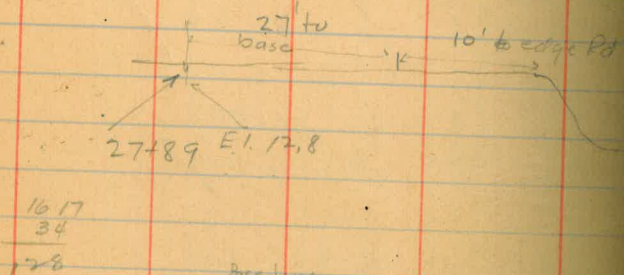
Cross Sections

21

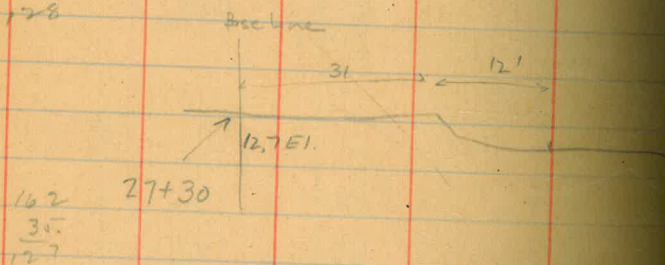
A: 2+53⁶



A 1+60



A 1+80

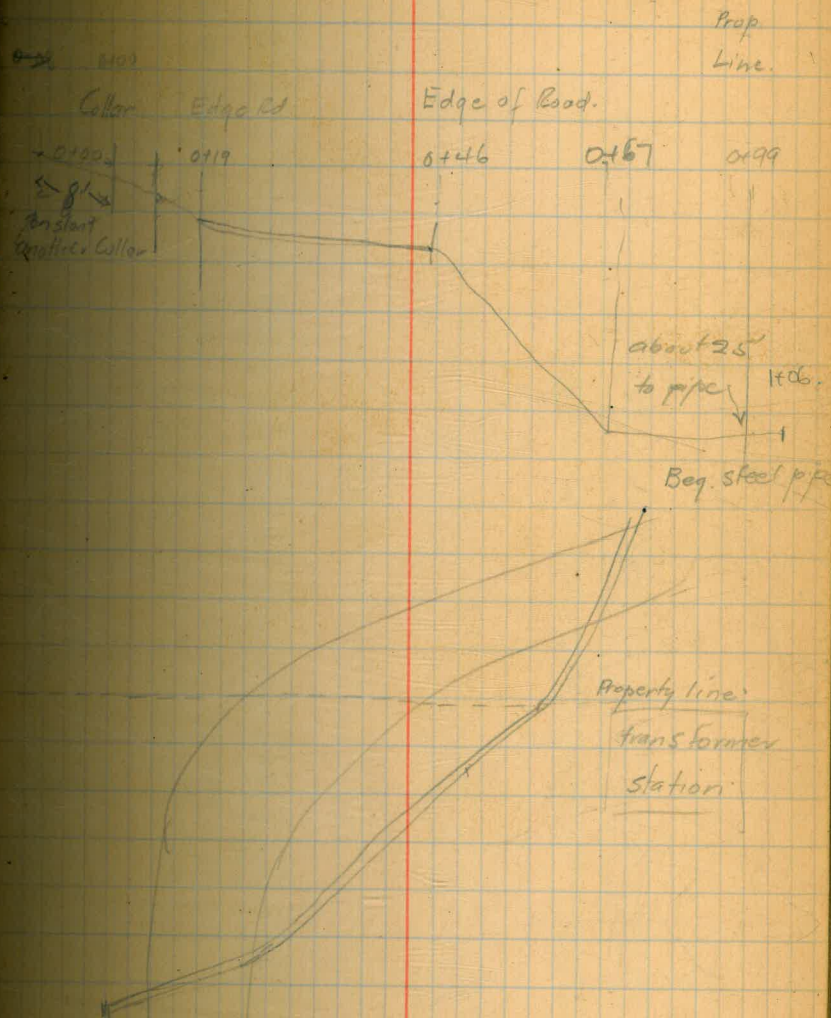


AT San Dieguito Slough Substation

8-17-33 P.B.

27

Station	HI	EI
0+00		at collar above road
B	50.25 + .25	50.0
0+19	-4.85	45.3
0+46	-8.4	41.8
0+67	-16.7	33.5
1+06	-18.3	31.9



6+53
~~745~~
6+98.5 = 1st bent
74

↑

6+98.5
6+74



674.5 40.5
653 24.5
21.5 28.5

23

10/4/33

P.B.

P.C.W.

Test Pits at San Diego to Dam

#6 3' x 6' x 5.5' ft deep Marine formation top
top soil about 1 foot deep then harder
Cobbles waterworn in top Cobbles about
3" dia. At depth of about 4' onto
Rock which appears jagged rather than
round surfaced (Rhyolite Porphyry?)
Should go at least 1 foot to 2 foot deeper
Some DG

11-7-33. Marine, adobe + cobbles

No rock

#5. 3 x 5 x 5 1/2' deep. Top Soil 18" - 2ft
Some waterworn DG Cobbles and
Cobbles waterworn (not too much) of materials
resembling porphyry. Body Main body
of material appears soft DG. Hard
digging by hand. (Robinson working
on this)

11-7 DG. resembling marine formation

24

3

#4 3 x 5 1/2 x 9' deep 1 foot top soil, 3ft
dobeey then into marine formation
mixed with dobeey. Then marine
formation. Few cobbles only in
top soil.

11-7-33 This is apparently also DG. Looks
much like Marine formation. Weathers badly
Pit damp only. DG. badly decomposed

#1 3 x 5 - 7' to water. About 1" to 1 1/2" inches
water in bottom. Water seeped in. 3 feet
6" top soil 2 1/2' dobeey. Grayish (Green)
Marine formation with small amount
of clay (Clay color not visible) rest of
way

#2 3 x 5 1/2 x 2 1/2' deep. 1' top soil. Then adobeey
and hard rock. Rock fairly smooth surface
but not round. Bot. of pit in large rock
over 18" dia. but angular, not round.
Should go deeper.

11-7-33

Earth + large Rock. Dry down about 5'
Rock angular. Fine grained dark color

#4 $3\frac{1}{2} \times 5\frac{1}{2} \times 6\frac{1}{2}$ deep. $1\frac{1}{2}$ top soil (poor)
About 4' dokey. At bottom of dokey
all Kali free on surface. Bottom dokey
and marine formation mixed. Mostly
marine formation. Pit free from
rock or cobbles. Little water in bottom.
(Take Level of Lake and level in pit
Pit only damp when dug. Water
in next morning. Previous (?)

sec Corners **San Pasqual** T. 12 S R. 1 W.

55+80 Δ 12° 20' Rt.
900 N. 1° 48' 15" W.

46+80 Δ 4° 09' 30" Rt.
400' N. 5° 54' 45" W.

42+80 Δ 54° 40' 15" Rt.
375' N 60° 38' W.

39+05 Δ 61° 49' 45" Lt.
355' N 1° 11' 45" E.

35+50 Δ 13° 23' Rt.
460' N 12° 11' 15" W.

3090 Δ 97° 13' Rt.
1390' S. 70° 35' 45" W.

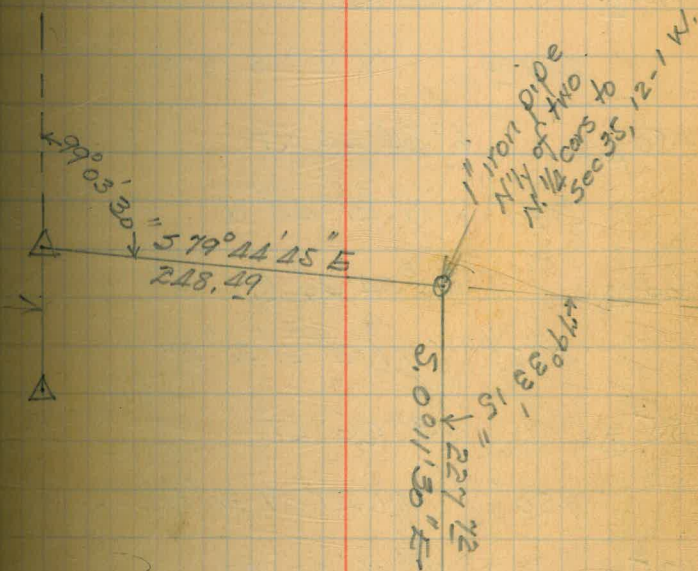
17+00 Δ 19° 24' 15" Lt.
1500 West.

2+00 Δ 90° 0' Rt.
700 South.

0+00 = $\frac{26}{35} \frac{25}{36}$ 1630' N. of E Highway #78
(1585' by County.)

(W.A.) S.C. Case 29735
Co. Rd. Map R to 15
Div. 1 & 2 Shts 15, 16, 17
Govt. Bks. 71 & 157 in
co. Surveyors office.

Mag. N 3° W.



Granite Stone
Marked 'A' on
South face.
Southerly of two
N. 1/2 coss Sec 35, 12-1 W.

Carl Nelson 27
Don Leonard.
Pat. Davis
Rice
H.M. Crocker
June 28th '46.

92489³³ Δ 15° 08' 16" Rt. Set 1/4 Cor. 23

239.33 N 15° 08' 16" W. (Computed) 26

90450 Δ 6° 34' 44" Rt. (Computed)

390' N. 21° 43' W.

86460 Δ 30° 34' 30" Lt.

575' N. 8° 51' 30" E.

80485 Δ 13° 06' Lt.

750' N. 21° 57' 30" E.

73435 Δ 15° 46' 30" Rt.

1065' N. 6° 11' 0" E.

62470 Δ 24° 0' 45" Lt.

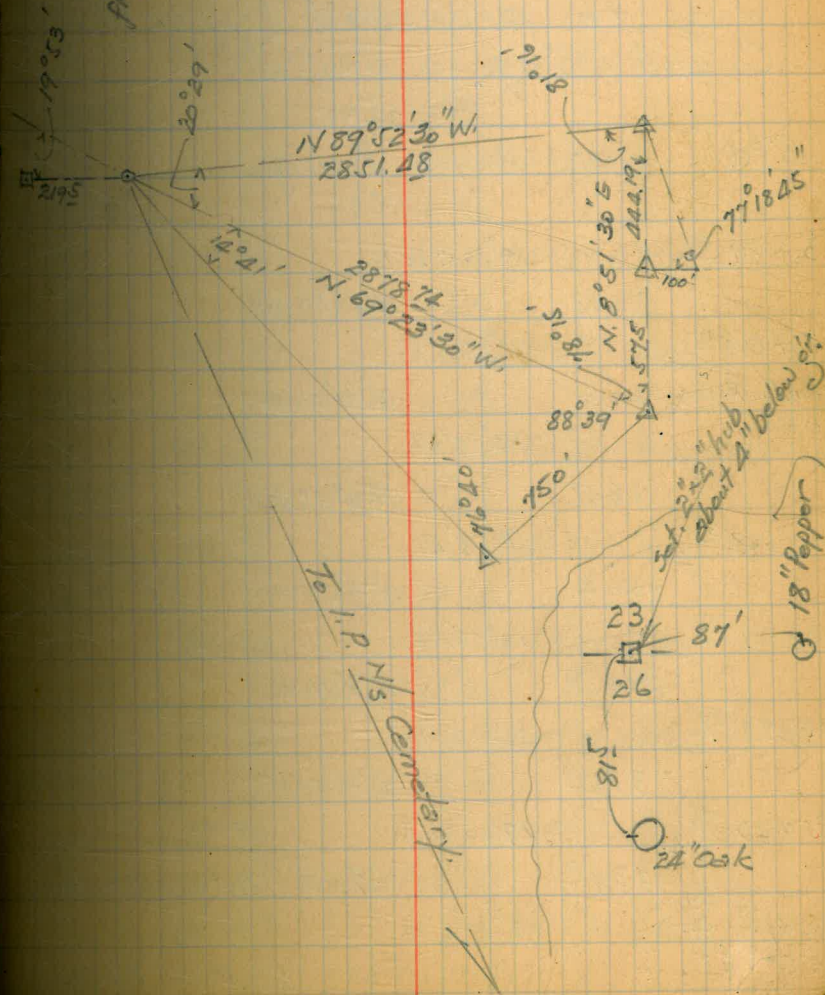
400' N 30° 11' 45" E.

58470 Δ 19° 40' Rt.

290' N 10° 31' 45" E.

55480 Δ 12° 30' Rt.

N.W. Cor. 26 - 25 - 1 W
Flag on infra visible from base line



copied from Loose sheets
to this book by W. Hallock
Aug. 6, 1946

29

Copy of field notes from $\frac{1}{4}$ Corner
~~23~~ 7. 12 S. R 1 W. established
26 on July 2nd 1946 tying
in Mountains Section of
Located line of construction road
way to proposed Upper Guojito
Creek Gaging Station.

Sta. Dist Angle Bearing

Sta.	Dist	Angle	Bearing
67			
2+89 ⁵⁸ Δ	12.43	14°36'17" Lt.	
	83.58		N. 50°53'48" E.
2+06 Δ		31°10'48" Rt.	
Const'n Roadway 206			N. 19°43' E.
0+00 = 104+25 Δ		18°55' Rt.	
	106.7		N. 0°48' E.
103+68 ³³ Δ		6°58' Rt.	
	150.0		N. 6°10' W.
102+18 ³³ Δ		12°50' Lt.	
	325.0		N. 6°40' E.
98+93 ³³ Δ		23°-00' Lt.	
	370.0		N. 29°40' E.
95+23 ³³ Δ		29°40'00" R.	
	234.0		North Note: -212' N x 2'
92+89 ²³ Δ		15°08'16" Rt.	E. is old 2"
			Iron Pipe.

Station	Dist	Angle	Bearing
	50.09		N. 26°31'12" E.
9+84.18 Δ		13°24'03" Rt.	
	50.22		N. 14°17'09" E.
9+33.96 Δ		7°58'16" Lt.	
	99.37		N. 22°15'25" E.
8+34.59 Δ		29°24'18" Rt.	
	138.87		N. 7°08'53" W.
6+95.72 Δ		43°50'06" Rt.	
	58.90		N. 50°58'59" W.
6+36.82 Δ		7°36'59" Lt.	
	42.43		N. 43°23'00" W.
5+94.39 Δ		15°15'18" Rt.	
	40.31		N. 58°37'18" W.
5+54.09 Δ		24°46'31" Rt.	
	23.09		N. 83°23'49" W.
5+30.99 Δ		50°48'53" Lt.	
	30.23		N. 32°34'57" W.
5+00.26 Δ		81°38'07" Lt.	
	50.25		N. 49°03'10" E.
4+50.51 Δ		1°13'58" Lt.	
	99.90		N. 50°17'08" E.
3+50.61 Δ		13°49'37" Rt.	
	61.03		N. 36°27'31" E.
2+89.58		14°26'17" Lt.	

Station	Distance	Angle	Bearing
---------	----------	-------	---------

16 + 42 83Stadia
101.4615 + 41 37 Δ Angle Lt $1^{\circ}30'$
Vert. Angle 12° Flow Line Guajito Creek
at Proposed Site of
Parshall Flume $1.05 \times 4.32 = 4.54 + 1.0$
const. = 101.46END OF
Proposed road.15 + 28 49 Δ

93.78

P.O.I.
 $N. 23^{\circ}32'54'' E.$ 14 + 34.71 Δ

80.3

 $14^{\circ}25'47'' Lt$ $N. 37^{\circ}58'41'' E.$ 13 + 54 41 Δ

112.7

 $36^{\circ}54'31'' Lt$ $N. 74^{\circ}53'15'' E.$ 12 + 42 24 Δ

54.87

 $13^{\circ}33'09'' Rt$ $N. 61^{\circ}20'03'' E.$ 11 + 87 37

103.62

 $36^{\circ}36'53'' Rt$ $N. 24^{\circ}43'10'' E.$ 10 + 83 25 Δ

49.48

 $9^{\circ}03'' Rt$ $N. 15^{\circ}40'10'' E.$ 10 + 34.27 Δ

50.09

 $12^{\circ}01'02'' Lt$ $N. 26^{\circ}13'13'' E.$

Memorandum

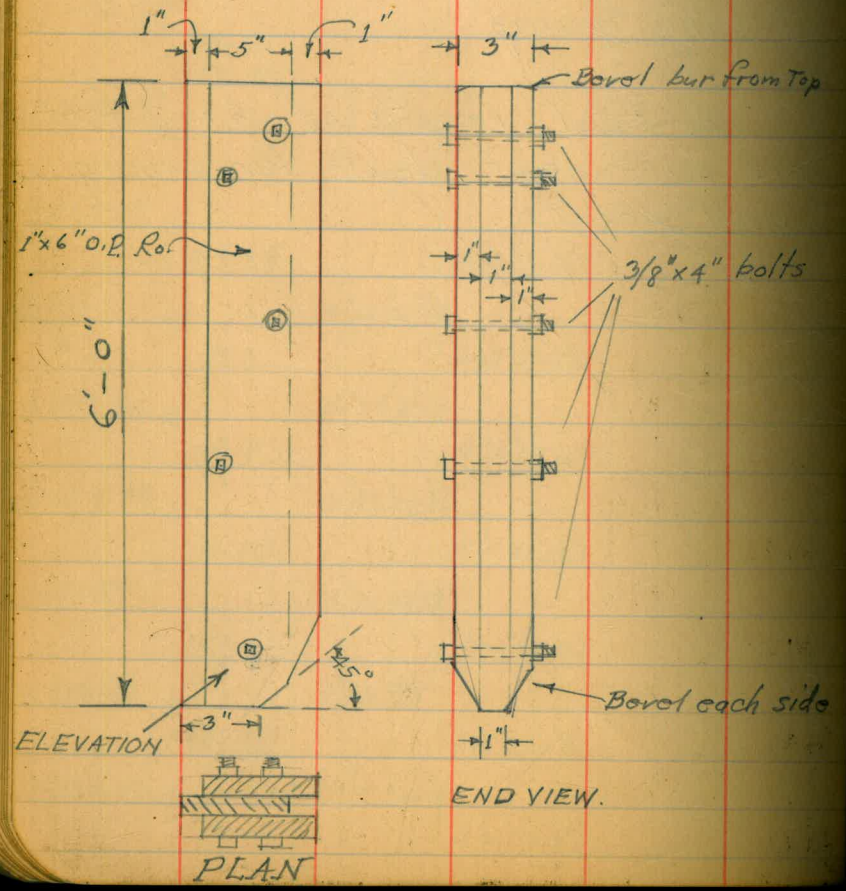
For outlet to San Pasqual Valley
and Lower Guajito Creek Station.

8 - $1\frac{1}{2}$ " well points with necessary
connections and fittings to drive
around caisson in a rectangle
about 7' x 8' to connect with
rotary pump.

A total length of 6 or 7 foot
is sufficient depth for driving
well points.

OUTLET GAGING STATION SAN PASQUAL VALLEY

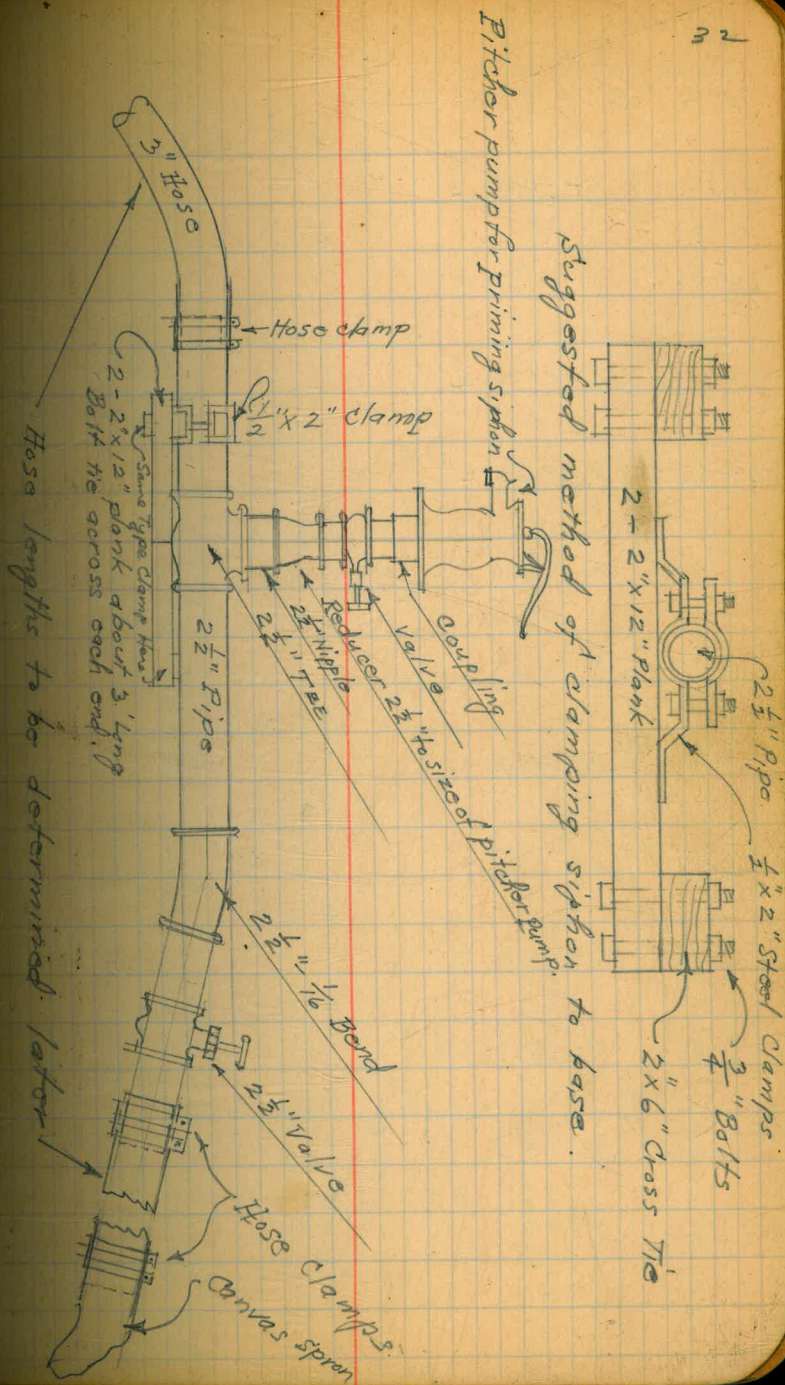
Wakefield Piling required
 Caisson for base of stilling Well
 360 F.B.M. 1"x6" O.P. RO.
 200 - 3/8"x4" Mach. Bolts



Sketch of siphon for diversion of water during construction of gaging station at Upper Guajito Creek site.

"No Scale"

Also furnish 1 length, (20'±) of 3" or 4" pipe for safety overflow.

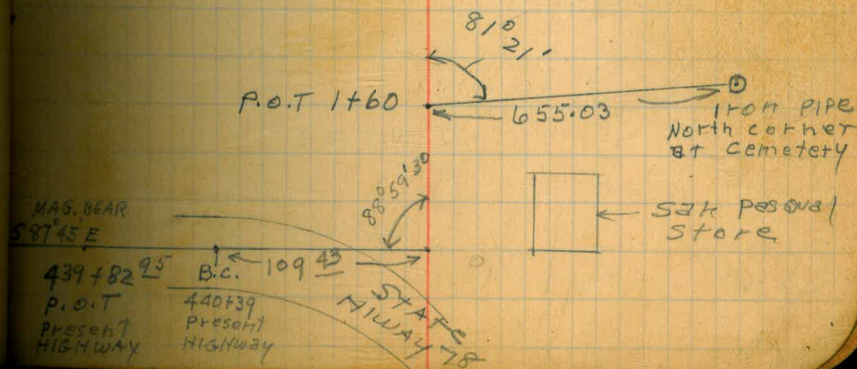


ROAD ALIGNMENT FROM STATE
HIGHWAY 78 - TO BUJITO GAUGING
STATION PROJECT

P.I 33+13 ²⁵	$\Delta = 17^{\circ} 55' L$	N 2° 00' E
P.I 30+96 ⁰³	$\Delta = 27^{\circ} 52' R$	N 21° 00' E
P.I 28+91 ⁵³	$\Delta = 17^{\circ} 40' L$	N 70° 45' W
P.I 23+77 ⁶⁰	$\Delta = 25^{\circ} 33' L$	N 9° 45' E
P.I 21+94 ⁸⁰	$\Delta = 14^{\circ} 17' 30" R$	N 34° 15' E
P.I 19+76 ²⁵	$\Delta = 16^{\circ} 10' R$	N 21° 30' E
P.I 17+64 ⁵⁰	$\Delta = 10^{\circ} 07' 30" R$	N 5° 00' E
P.I 12+15 ⁵⁰	$\Delta = 4^{\circ} 59' R$	N 5° 30' W
P.I 10+05 ⁷⁸	$\Delta = 22^{\circ} 37' 30" L$	N 10° 00' W
P.I 8+82	$\Delta = 18^{\circ} 47' 30" R$	N 12° 30' E
P.I 4+13.10	$\Delta = 1^{\circ} 05' R$	N 2° 00' E
0+00		N 10° 00' E

9-4-46
clear - very HOT

NELSON &
LEONARD
EATON 33



9-5-46
clear-hot

Nelson, ^T
Leonard
Eaton

34

?
P.I. $68+98^{\circ}$ =
 $98+93^{\circ}$ Ah $\Delta = 16^{\circ} 28' L$ see page 29 This book
N $5^{\circ} 00' E$
P.I. $59+64^{\circ}$ $\Delta = 23^{\circ} 20' 30'' R$
N $21^{\circ} 00' E$
P.I. $57+93^{\circ}$ $\Delta = 13^{\circ} 33' L$
N $1^{\circ} 30' W$
P.I. $56+10^{\circ}$ $\Delta = 33^{\circ} 11' 30'' L$
N $8^{\circ} 33' E$
P.I. $53+65^{\circ}$ $\Delta = 75^{\circ} 26' R$
N $45^{\circ} 00' E$
P.I. $51+84^{\circ}$ $\Delta = 29^{\circ} 41' L$
N $30^{\circ} 30' W$
P.I. $48+42^{\circ}$ $\Delta = 13^{\circ} 37' R$
N $2^{\circ} 15' W$
P.I. $46+92^{\circ}$ $\Delta = 7^{\circ} 39' L$
N $15^{\circ} 00' W$
P.I. $45+73^{\circ}$ $\Delta = 9^{\circ} 53' L$
N $8^{\circ} 00' W$
P.I. $44+27^{\circ}$ $\Delta = 1^{\circ} 39' R$
N $2^{\circ} 00' E$
P.I. $39+12^{\circ}$ $\Delta = 27^{\circ} 42' L$
N $0^{\circ} 30' E$
P.I. $36+76^{\circ}$ $\Delta = 25^{\circ} 34' R$
N $27^{\circ} 45' E$

$54+88^{\circ}$ \square $\frac{1}{4}$ cor $\frac{23}{26}$

46+50 END ESTABLISHED ROAD

51 04
50 00

east of city Dairy
 well casing - BM #63 341.04
 ground - 339.2
 well B-63 - ground 333.2
 • A-63 - " 335.2

35 50
 17

199 200
 65 65
 134.2 134.2

67.53
 134.2
 518.8

35
 26
 59
 24
 83
 24
 107
 24
 131
 24
 155
 24
 179
 24
 203

23.00
 63.2
 22.60
 6.32
 16.28