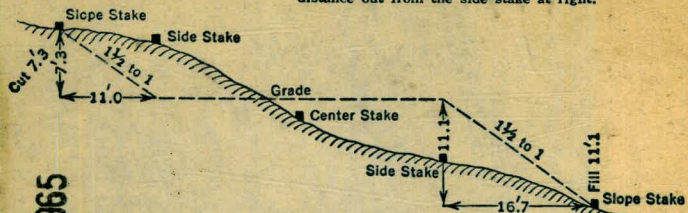


DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
 Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

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 152 + 00 N } 9.91

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 106 + 00

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 75.3030
 104.2930

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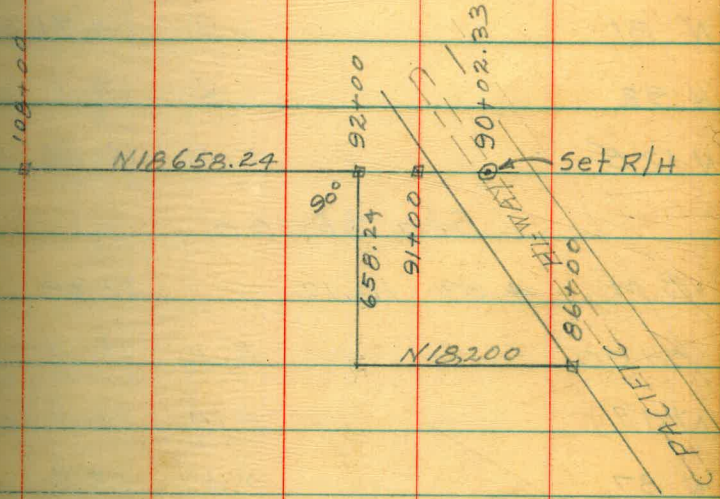
JAN 7 1965

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BASELINE CONT'D.

(2)



CROSS SECTIONS PROJ #33

3-16-50

PK ③

DE-ANZA POINT BASELINE

T Stampel
C. Barragan
H. Brown

Sta	+ H.I	-	Elev	
B.M.	Sta. 79+00 4.52 16.61		12.09	State
0+00		5.1	11.5	
N 42		3.5	13.1	
N 81		1.9	14.71	W. Shldr
N 92		1.5	15.1	W. Pav
N 125		1.03	15.58	W. Profile

Sta 80+00

B.M.	4.03 16.12		12.09	State
0+00		5.1	11.1	
N 17		4.0	12.1	
N 87		2.4	13.7	
N 137		0.8	15.3	
N 154		1.3	14.8	
N 178		1.1	15.12	W. Shldr
N 190		0.66	15.46	W. Pav
N 223		0.29	15.83	W. Profile
TP		5.00	11.12	Sta 82+00 2x2 Hd

Visibility - Good

Proj #33
CROSS SECTIONS CONTD

PK

Sta 81+00 DE-ANZA BL

Sta	+	H.I	-	Elev	
T.P. 2x2	5.22	16.34		11.12	Sec P13
0+00			5.1	11.2	
N 44			5.1	11.2	
N 68			4.8	11.5	
N 75			2.9	13.4	
N 121			1.9	14.4	
N 172			0.7	15.6	
<u>N 170</u>					
T.P. (70)	6.11	20.66	1.79	14.55	
N 240 (76)			2.2	18.5	
N 246 (106)			4.8	15.9	
N 276 (117)			5.20	15.46	w. slide
N 287 (151)			4.85	15.81	w. E. Pk
N 321			4.47	16.19	w. Profile

3-16-50

PK

⑦

Sta 82+00 DE-ANZA BL

Sta	+	H.I	-	Elev	
5.00	16.12		11.12		Sta 82+00 2x2
N 7			4.6	11.5	
N 8			4.0	12.1	
N 19			5.0	11.1	
N 25			7.0	9.1	
N 73			5.6	10.5	
N 111			3.3	12.8	
N 131			4.0	12.1	
N 166			3.2	12.9	
N 176			1.2	14.9	
N 227			0.3	15.8	
<u>N 220</u>					
T.P. 45	8.07	20.68	12.61	3.51	
N 265 93			3.8	16.9	
N 313 115			2.2	18.5	
N 335 120			1.4	19.3	
N 340			4.8	15.9	

3-16-50

PX

Sta 82+00 DeANZA B/L

Sta	-	H.I.	+	ELEV	
156					
N 376		20.68	4.77	15.91	W. Shoulder
167					
N 387			4.50	16.18	W Edge
202					
N 422			4.10	16.58	W Edge

3-16-50

PX

⑤

Sta 83+00 Pt 30' south DeANZA B/L

Sta	+	H.I.	-	ELEV	
	5.91	17.03		11.12	Sta 82+00 2x2
0+00			4.9	12.1	
N 2			5.2	11.8	
N 11			9.4	7.6	
N 37			10.2	6.8	
N 85			9.8	7.2	
N 140			7.8	9.2	
N 193			4.9	12.1	
N 242			3.5	13.5	
N 262			4.7	12.3	
N 300			4.0	13.0	
N 306			1.9	15.1	
T					
N 360			1.2	15.8	
T.P.	7.77	20.89	3.91	13.12	
47					
N 407			4.7	16.2	
106					
N 466			2.6	18.3	
109					
N 469			4.5	16.4	

3-16-50
Sta 83+00 Cont'd

PT

3-16-50
Sta 84+00 Cont'd

PT

⑥

11.12
6.33
17.45

Sta	+	H.I.	-	ELEV
200 N 143				
N 503		20.89	5.00	15.89
155 N N 515			4.46	16.43
188 N N 548			4.01	16.88
N				

West
Shoulder

W. Edge

W. Profile

Sta	+	H.I.	-	ELEV.
N 406		16.91	2.4	14.5
N 460			2.5	14.4
N 509			1.4	15.5
N 565			0.0	16.9
N 575			0.7	16.21

W. Shoulder

Wedge

W Profile

Sta. Sta 84+00 = Pt 30' South DeAnzo
+ H.I. - ELEV. Sta 83+00
5.79 16.91 11.12 2x2

3.6
3.25
3.0
-0.28 17.19

0+00 4.9 12.0

N 2 5.0 11.9

N 11 9.3 7.6

N 30 10.0 6.9

N 152 9.7 7.2

N 202 8.0 8.9

N 256 5.8 11.1

N 311 4.9 12.0

N 345 4.2 12.7

N 358 5.2 11.7

N 395 4.7 12.2

LEVELS

Sta	+	H.I.	-	ELEV.
T.M.	6.33	17.45		11.12
T.P.	4.36	10.00	5.64	11.81
T.P.	4.36	16.17		
T.P.			5.52	10.65
	4.64	15.29		
T.P.			6.45	8.84
T.P.	9.90	18.74	3.17	15.57
T.P.	3.28	19.85	2.70	17.15
			8.27	11.58

2x2 Sta 84-82+00

N 18658.29
Hub
Sta 92+00
Hub
Sta 93+00
N 18658.29

Sta 85+00 = Pt. 30' South De Anza H^{pt}

3-16-50

PT

⑦

Sta	+	H.I.	-	ELEV.
TBM.	5.30	16.42		11.12 ^{2x2}
N 0+00			5.1	11.3
N N 395			5.6	10.8
N N 448			4.4	12.0
N 455			5.3	11.1
N 477			4.4	12.0
N 560			3.2	13.2
N 563			4.0	12.4
N 572			5.7	10.7
N 585			1.3	15.1
N 638			0.4	16.0
N ⁶ 769			-1.4	17.8
N 8 00			-0.65	17.07
N 8 15			-1.02	17.44
N 8 45			-1.72	18.14
TP.			1.86	14.56

Sta 86+00 = N18,200

Sta	+	H.I.	-	ELEV.
				21.38
			10.0	11.4
			9.0	12.4
			10.2	11.2
			9.8	11.6
			7.7	13.7
			7.5	13.9
			6.6	14.8
			6.0	15.4
			5.3	16.1
			4.48	16.90
			4.09	17.29
			3.47	17.91
			11.55	9.83

W. Shldr
W. Paving
W. Profile
N18,200
2x2-88+00

6.82 21.38

8.69 18.52

Sta 87+00 = N18,200

3-16-50

PX
17-50 (8)

Sta	+	H.I.	-	Elev.
		18.52		
N	N 155		0.25	18.27
N	N 119		0.71	17.81
N	N 109		1.11	17.41
	N 97		0.9	17.6
	N 92		3.0	15.5
	N 63		5.0	13.5
	N 16		5.1	13.4
	0+00		5.1	13.4
	S 39		4.2	14.3
	S 86		4.4	14.1
	S 97		7.2	11.3
	S 146		7.8	10.7
	S 153		6.0	12.3
	S 210		8.0	10.5
	S 263		9.9	8.6

Sta 88+00 = N18,200

Sec P
#7

Sta + H.I. - Elev

W.P.

TBM.

W.P.

130

W.S.

335

244

255

211

187

179

90

78

75

64

60

30

27

24

18

0+00

7.67

17.50

9.83

NOTE: All Distances From this

Point.

9.4

8.1

7.4

10.1

6.2

11.3

5.6

11.9

5.9

11.6

7.5

12.0

7.0

10.5

6.9

10.6

8.0

9.5

7.7

9.8

7.0

10.5

6.3

11.2

7.3

10.2

7.0

10.5

6.1

11.4

N18,200

2x2-88+00

N 18,200 = B/L
Sta 88+00 Contd

3-17-50

C. BARRAGAN
A. SHERIDY
H. BROWN

(5)

9.83
7.99
19.32

Sta + H.I. - Elev

STA 89+00

N 130 - of B/L, Distances indicated from this Pt.

STA + H.I. - Elev

2 x 2 STA-88+00
ON N-18,200 8/4

N 16 4.9 12.6

T.P. 3.49 13.32 9.83

N 20 6.4 11.1

(N-18,200
W-8,900) SECTION DUE NORTH & SOUTH.

N 25 5.8 11.7

2+00 = 6.3 7.9

N 27 4.3 13.2

2+69 4.4 8.9

N 64 2.5 15.0

2+27 4.4 8.9

N 76 0.30 17.20

1+85 5.8 7.5

N 88 -0.66 18.16

W.S.P. 1+36 6.3 7.0

N 122 -1.22 18.72

W.P. 1+91 6.0 7.3

W.P. 2+43 5.8 7.5

2+00 5.3 8.0

2+00 5.0 8.3

2+00 4.3 9.0

2+00 2.4 10.9

2+00 1.5 11.8

T.P. 730 17.13 9.83

N 1770 5.2 11.8

2+15 2.9 14.1

9.83
7.99
17.13

2 (2 STA 88+00
N. 18

1.70

Sta 89+00

P

PX

10

	Sta	+	M.I.	-	Elev
N	T 0+50				
	N 2+20		17.13		14.4
N	T.P. 0+00	5.82	19.68	3.27	13.86
N	0+08			5.1	14.6
N	N 2+20 0+11			47.	15.0
	N 2+31 0+22			5.5	14.2
	N 2+42 0+35			4.1	15.6
	N 2+56 0+48			4.1	15.6
	N 2+68 0+86			3.6	16.1
	N 3+06 0+96			1.45	18.33
	N 3+16 1+32			1.15	18.53
	N 3+52			0.72	18.96

	Sta	+	M.I.	-	Elev
	Sta 90+00.W				
	T.B.M. 3+6		12.99		9.83
	T.P.			4.88	8.11
	T.P. 10.03	20.10	2.92		10.07
	PT. 250' NORTH OF STA-W. 90+00 = $\left\{ \begin{array}{l} N-18950 \\ W-9000 \end{array} \right\} = 0+00$				
			20.10	13.1	7.0
				13.1	7.0
				12.7	7.4
				12.5	7.6
				12.3	7.8
				12.0	8.1
				11.5	8.6
				9.8	9.3
				7.3	13.8
				5.2	14.9
				4.3	16.8
				4.9	15.2
				3.4	16.7

2x2 Hub
Sta 89+00
18,200 2/4
2x2 H 4 1/2
Sta 89+00
18,200 2/4
335

3-17-50

PT

(11)

Sta - 90+00 W

	Sta	H _I	-	Elev
	90+92	2.0	1.1	17.0
N	91+00	2.4		18.7
N	91+18	4.2		16.9
N	91+22	4.4		16.7
	91+29	3.4		17.7
	91+56	1.82		18.28
	91+66	1.40		18.70
	92+01	0.85		19.35

W. E. P.

S. B. P.

W. E. P.

S. B. P.

W. E. P.

S. B. P.

	Sta	H _I	-	Elev
	91+00 W			
	BM	10.16	18.27	8.11
	BM		10.45	7.82
	100 = (18,200 N 91+00 W)			
	2+8		11.0	7.27
	2+12		9.9	8.37
	1+75		10.5	7.77
	1+32		10.1	8.17
	1+30		8.5	9.77
	2+35		6.4	11.87
	2+58		6.0	12.27
	2+00		5.4	12.87
	2+50		5.3	12.97
	1+00		5.5	12.77
	1+56		4.5	13.77
	2+28		3.8	14.47
	2+92		2.5	15.77
	3+25		1.5	16.77

2x2 Hub
Sta 89+00 W
N 8,200 8/4

2x2 Hub
Sta 90+00 W
N 8,200 8/4

STA - 91+00 W

STA - 92+00 W

PT

2x2-Hub
Sta. 90+00.

Sta	+	H	-	FL
N 3+50		18.27	2.5	15.8
N 3+84			0.23	18.0
N 4+20			1.45	16.8
N 4+30			3.45	14.8
N 4+58			3.36	14.8
N 4+85			2.78	15.3
N 4+96			- 0.53	18.8
N 5+10			- 0.85	19.1
N 5+45			- 1.26	19.6

STA	+	H	-	FL
T.B.M	10.65	18.47		7.82
SEC. N & S.				
		18.47	11.0	7.5
			9.3	9.2
			9.5	9.0
			8.4	10.1
			5.5	13.0
			5.3	13.2
			9.4	14.1
			4.2	14.3
			5.1	13.4
			5.9	12.6
			6.7	11.8
			5.8	12.7
			4.9	13.6
			5.1	12.4
SECTION N & S				
T.B.M	4.82	21.97		17.15
				.6
			7.4	14.7

STA-92+00W
18, 658, 29 B/L
Top H. B

22.0
17.4
4.6

PY

STA - 92+00 W

2+

2

Sta	+	H1	-	
S 1+20	21.97	21.97	6.8	16.2 12.2 +3
N S 0+80			6.6	14.5
N S 0+51			7.1	14.0
N S 0+15			4.2	17.9
T 0+00			4.8	17.3
N 0+14			6.8	15.3
N 0+53			6.8	15.3
N 0+76			6.8	15.3
N 1+11			6.0	15.1
N 1+30			5.8	15.3

3-17-50

(13)

STA 93+00

13 X

Sta	+	H1	-	Elev
C.P.T. 20 N. STA 92+00 - 18,580/4 =				{ N - 18,678.29 W - 9,300 } = 0+00
T.B.M. 10+02	21.60			11.58
A+32				11.9 9.7
B+80				11.8 9.8
C+35				11.3 10.3
D+80				11.2 10.4
E+60				12.0 9.6
F+75				10.7 10.9
G+75				11.7 9.9
H+25				11.1 10.5
I+74				10.6 11.0
J+22				10.1 11.5
K+10				6.3 15.3
L+00				5.0 16.6
M+8				5.2 16.4
N+19				9.6 12.0
O+20				8.6 13.0
P+28				8.5 13.1

Hwd. 93+00
18,658.21 0/4
T.P. H.W.R.

± CENTER
OF R.R. GR.

PX

Sta 93+00

Sta	t	HI	-	EL
N 1+28		21.60	8.2	13.4
N 1+72			7.3	14.3
N 2+07			5.4	16.2
N 2+26			0.9	Shoulder
N 2+36			0.65	Edge of Pavement
N 2+70			0.35	Center Profile
Recheck TBM	10.08	21.66		11.58
N 8			5.2	16.5
N 20			9.6	12.1
N 27			8.8	12.9
N 63			8.8	12.9
N 1+21			8.5	13.2
N 1+69			7.5	14.2
N 2+00			5.7	16.0
N 2+10			5.4	16.3
N 2+23			0.8	20.9
N 2+26			0.92	20.74
N 2+38			0.75	20.91
N 2+70			0.40	21.26

3-17-50

⑭

Sta 94+00

Sta	t	HI	-	EL
T.B.M	4.81	16.39		11.58
T.C.	$\left(\begin{matrix} N-18,658 \\ N-9300 \end{matrix} \right) = 0+00$ SECTION N.E.S.			
				8.7
				16.4
				5.9
				7.7
				8.1
				8.3
				7.8
				8.6
				6.9
				9.5
				6.4
				10.0
				5.7
				10.7
				4.8
				11.6
				1.6
				14.8
				0.4
				16.0
				0.8
				15.6
				1.4
				12.6
				4.1
				12.3
				3.5
				12.9
				2.4
				14.0

 STA-93+00 W
 18,658 W/L
 T.P.HUD

 ± CENTER
 R.R. STR.

PX

STA - 95+00 W

Sta - 96+00 W

PX

STA	+	H.I.	-	ELEV	Sta	+	H.I.	-	Elev	
T.B.M	4.62	16.20		11.58	TBM	5.04	15.11		10.07	
$\left\{ \begin{array}{l} N-18,658 \\ N-9,500 \end{array} \right\} = 0+00$ Sec. N.E.S.					S-2+16				6.1	9.01
S-2+10		16.2	6.6	9.6	S-1+15				5.8	9.31
S-1+09			6.6	9.6	0+00				5.3	9.81
0+00			5.4	10.8	0+21				5.7	9.41
N-0+22			5.3	10.9	0+64				4.5	10.61
N-0+30			5.9	10.3	0+79				4.4	10.71
N-0+55			4.9	11.3	0+94				1.1	14.01
N-0+65			1.6	14.6	0+98				0.7	14.41
N-0+78			0.8	15.4	1+00				1.4	13.71
N-0+85			1.2	15.0	1+18				3.8	11.31
N-0+99			5.1	11.1	1+26				5.9	9.21
N-1+38			5.0	11.2	1+60				5.5	9.61
N-1+68			4.0	12.2	1+70				3.8	11.31
T.B.M			5.13	10.07	2+10				3.05	12.06

 STA 95+00 W
 18,658 B/L
 Top Hub

 STA 97+00 W
 18,658 B/L
 Top Hub

 STA 95+00 W
 18,658 B/L
 Top Hub

 STA 96+00 W
 18,658 B/L
 Top Hub

3-17-50

(16)

PX

Sta. 97+00

Sta 98+00

Sta	+ H _i	-	Elev
\overline{N} $\overline{0+00} = \begin{cases} N. 18,658 \\ W. 97+00 \end{cases}$			
N T.B.M	5.20	15.27	10.07
N	S. 2+10	15.3	56 9.7
N	S. 1+06	6.1	9.1
	0.0	5.2	10.0
N	0+51	4.8	10.5
N	0+97	4.2	11.1
N	1+05	1.9	13.4
N	1+15	1.2	14.1
N	1+30	3.7	11.6
N	1+36	4.0	11.3
N	1+42	5.6	9.7
N	2+06	5.4	9.9
N	2+20	-0.4	15.7

Sta
97+00

Sta	+ H _i	-	Elev
$\overline{0+00} = \begin{cases} N. 18,658 \\ W. 9,900 \end{cases}$			
N T.B.M	5.55	15.12	10.07
N	2+12	5.8	9.3
N	2+15	5.6	9.5
N	2+20	5.2	9.9
N	2+46	5.0	10.1
N	1+20	4.4	10.7
N	1+00	2.2	12.9
N	1+27	1.5	13.6
N	1+37	4.4	10.7
N	1+53	4.9	10.2
N	1+60	5.9	9.2
N	1+86	4.9	10.2

Hub
Sta 97+00

3-20-50
Sta 99+00

Sta.	+	H.I.	-	Elev.
		N 18,658		
		0+00 = N 18,200		
N	TBM	5.46	15.53	10.07
N	0+00		5.3	10.2
N	S 209		5.6	9.9
	S 108		5.6	9.9
N	52		4.9	10.6
N	86		4.6	10.9
N	103		4.2	11.3
N	110		2.3	13.2
N	122		1.6	13.9
N	131		1.6	13.9
N	138		3.9	11.6
N	148		3.9	11.5
N	152		5.2	10.3
N	173		5.9	9.6
N	191		3.9	11.6
	TP		4.30	11.23

3-20-50
Sta 100+00
N 18,658
0+00 = N 18,200

(17)

PX

Sta.	+	H.I.	-	Elev.
		N 18,658		
		0+00 = N 18,200		
N	TBM	4.24	15.47	11.23
N	0+00		5.2	10.3
N	436		5.3	10.2
	477		4.6	10.9
N	102		4.1	11.4
N	107		2.4	13.1
N	130		1.2	14.3
N	130		1.4	14.1
N	136		3.6	11.9
N	148		3.6	11.9
N	150		5.1	10.4
N	157		4.9	10.6
N	192		2.6	12.9
N	200		5.9	9.6
N	110		5.0	10.5

101+00
2x2
N 18,200
N 18,658 1/2

2x2
N 18,658
N 18,658

3-20-50

Sta 101+00

N-18, 658

0+00 = N-18, 200

PX

	Sta	+	H.I.	-	Elev
A	T.B.M.				
	101+00		5.30	16.53	11.23
A	0+00			5.3	11.2
A	N-42			5.2	11.3
	N-72			5.3	11.2
	N-90			5.0	11.5
	N-97			3.3	13.2
	N-101			2.2	14.3
	N-125			2.5	14.0
	N-130			4.5	12.0
	N-143			4.7	11.8
	N-145			5.8	10.7
	N-181			5.7	10.8
	N-185			3.8	12.7
	S-203			6.8	9.7
	S-106			5.8	10.7

3-20-50

Sta 102+00

N-18, 658

0+00 = N-18, 200

PX

(18)

	Sta	+	H.I.	-	Elev
	T.B.M.				
	102+00		5.20	16.43	11.23
	0+00			5.2	11.2
	N-42			5.3	11.1
	N-75			4.5	11.9
	N-111			2.8	13.6
	N-99			2.0	14.4
	N-116			2.2	14.2
	N-125			4.1	12.3
	N-131			3.7	12.7
	N-136			5.6	10.8
	N-170			4.9	11.5
	N-174			3.4	13.0
	S-214			7.5	8.9
	S-108			6.0	10.4

2x 2
N-18, 200
N-18, 658 8/4

Toe

3-20-50

Sta 103+00

N 18,658

0+00 = ~~N 18,200~~

Sta + H.I. - Elev

TBM 101+00 5.42 16.65 11.23

0+00 5.3 11.3

N 40 5.5 11.1

N 60 4.6 12.0

N 63 3.6 13.0

N 85 2.3 14.3

N 111 2.8 13.8

N 113 5.4 11.2

N 138 5.3 11.3

N 151 4.8 11.8

N 155 3.6 13.0

S 224 6.6 10.0

S 124 7.0 9.6

105+00 TP 2.52 13.95 5.22 11.43

TP 5.62 14.41 5.16 8.79

B.M. 5.61 8.80

3-20-50

Sta 104+00

N 18,658

0+10 = ~~N 18,200~~

Sta + H.I. - Elev

2x TBM
N 18,200
N 11,0
101+00 3.23 14.66 11.43

0+00 5.1 9.6

2.52 5.1 9.6

N 101 4.9 10.3

N 133 4.4 10.3

N 158 4.8 9.9

S 191 6.2 8.5

S 100 5.4 9.3

(19)

2x 2

+18,200
N 18,658

3-20-50

Sta 105+00

N 18, 6 58

0+00 = N 18, 200

Sta + H.I. - Elev

TBM

105+00 4.95 16.38 11.43

0+00 5.0 11.4

N 25 4.8 11.6

N 29 3.8 12.6

N 51 3.5 12.9

N 90 5.0 11.4

N 114 3.9 12.5

S 605 6.6 9.8

S 540 6.4 10.0

S 495 6.3 10.1

S 487 8.1 8.3

S 395 8.0 8.4

S 295 7.3 9.1

S 195 8.0 8.4

S 93 7.3 9.1

S 26 7.3 9.1

S 13 6.0 10.4

3-20-50

Sta 106+00

N 18, 6 58

0+00 = N 18, 200

Sta + H.I. - Elev

TBM

106+00 6.70 18.13 11.43

0+00 4.8 13.3

1+16 4.2 13.9

1+30 6.3 11.8

1+70 6.5 11.6

1+107 5.9 12.2

S 764 8.4 9.7

S 664 8.6 9.5

S 572 8.4 9.7

S 520 8.3 9.8

S 4 4.0 14.1

S 518 11.8 6.3

S 248 11.0 7.1

S 20 6.5 11.6

S 445 13.0 5.1

S 430 12.3 5.8

S 46 7.3 10.8

S 412 10.0 8.1

S 26 7.0 11.1

S 370 9.0 9.1

S 230 9.5 8.6

S 222 8.4 9.7

S 202 8.3 9.8

S 164 9.6 8.5

S 82 9.6 8.5

PX

(20)

2x2

N 18, 200

18, 658

18, 658

3-20-50

Sta 107+00

N 118, 658

0+00 = N 18, 200

PX

Sta + Hill - Elev

TBM 105+00 5.75 17.18 11.93

0+00 5.2 12.0

N-30 5.2 12.0

N-55 5.2 12.0

N-103 5.0 12.2

S 805 7.3 9.9

S 800 9.0 8.2

S 784 7.7 9.5

S 664 7.0 10.2

S 580 6.3 10.9

S 565 10.4 6.8

S 495 9.5 7.7

S 435 10.3 6.9

S 430 6.2 11.0

S 420 6.3 10.9

S 410 9.2 8.0

S 330 7.7 9.5

S 238 8.7 8.5

3-20-50

Sta 107+00 Cont'd

PX

(21)

Sta + Hill - Elev

17.18

242
N 118, 658
S 170 7.6 9.6

S 130 8.7 8.5

S 115 10.3 6.9

S 96 10.1 7.1

S 73 8.7 8.5

S 68 6.8 10.4

S 41 6.6 10.6

S 39 5.7 11.5

S 32 5.1 12.1

S 24 3.1 14.1

S 8 2.8 14.4

3-21-5

28' - BACK TO 25° 7.109

(22)

STA - W-105+00

STA - 105+00W

STA + H.L. - ELEV

STA + H.L. - ELEV

4' x 9" 26' E OF SECTION LINE

T.B.M. 7.57 12.75 8.18

T.P. 2.30 10.66 8.36

0+00 = STA - 105+00 DE. ANZO B/L

STA 105+00 DE. ANZO B/L

0+00 12.75 5.0 7.7

0+00 = P7. 630' SOUTH STA - 105+00W DE. ANZO B/L

S-0+26 5.0 7.7

S-0+26 10.66 6.2 4.5

S-0+30 2.5 10.3

S-0+30 10.7 6.3 4.4

S-0+42 2.3 10.4

S-0+42 6.5 4.2

S-0+73 2.8 9.9

S-0+73 8.1 2.6

S-1+23 3.4 9.3

S-1+23 9.0 3.7

S-1+80 4.7 8.0

S-1+80 6.7 4.0

S-2+52 6.0 6.7

S-2+52 6.1 4.6

S-3+20 6.8 5.9

S-3+20 6.3 4.4

S-3+83 6.3 6.4

S-3+83 5.7 5.0

S-4+28 6.1 6.6

S-4+28 5.7 5.0

S-4+90 7.0 5.7

0+00 7.8 5.9

S-5+60 6.8 5.9

S-6+30 6.9 5.8

T.P. 7.39 8.36

4' x 9" 26' E OF SECTION LINE

Rechecks & Extensions

Sta 95+00

3-22-50

π @ 70' North of 95+00 on 18,658 B/L

Sta	+	H.I.	-	ELEV.
TBM	8.23	19.81		11.58
N 1+68			1.8	18.0
N 1+50			2.7	17.1
N 1+39			6.9	12.9
N 1+17			7.8	12.0
N +92			7.2	12.6
N. +72			7.4	12.4

Location of Back side of F&H Motel

AZIMUTH	DIST	H.I.	-	ELEV.
		19.81		
28° 05'	278'		0.50	20.70
25° 25'	236'		0.30	19.51
11° 30'	244'		2.0	17.81
340° 50'	275'		1.46	

Highway
Shoulder
SE Corn.
F&H.
SW Corn.
F&H
NW Corn.
F&H

Sta 96+00

3-22-50

(24)

π @ 100' North of 96+00 on 18,658 B/L

Sta	+	H.I.	-	ELEV.
TBM	9.24	19.33		10.07
N 3+00			0.3	19.0
N 2+66			3.90	15.43
N 2+03			3.0	16.3
N 1+94			7.0	12.3
N 1+40			7.7	11.6
N 0+68			8.2	11.1

N 2+67

π @ PT 367' North of 18,658 B/L

AZIMUTH DIST

AZIMUTH	DIST	LOCATION
48° 50'	116'	
47° 08'	197'	
67° 30'		
65° 10'	88'	24" CULVERT
225° 00'	168'	

Point on E
24" drain
EXTENSION

West end of
CULV. Under
HWY 101
East end
Same Culv.
N.E. Corn
F&H Motel
West end of
24" Culv.
Extension

3-22-50

Sta 99+00

T @ Sta 99+00 on 18,658 B/L.

Sta	+	H.I.	-	ELEV.
T.B.M.	5.55	15.62		10.07
N 1+93			3.4	12.2
N 1+73			5.9	9.7
AZIMUTH	LOCATION OF HOUSE # (FAG. & GRAVID)			
	DIST			
4° 55'	219'		2.65	12.97
0° 0'	213'			
358° 35'	236'			

Sta 97+00
18,658
SE Corn.
House
SW Corn.
House
NW Corn.
House

3-22-50

Sta 101+00

(26)

T @ Sta 101+00 on 18,658 B/L

Sta	+	H.I.	-	ELEV.
T.B.M.	5.29	16.52		11.23
N 2+61			4.6	11.96
N 2+31			4.3	12.2
N 2+00			4.2	12.3
N 1+96			3.8	12.7
N 1+80			5.8	10.7
N 1+66			6.1	10.4

Hub on
101+00

Sta 100+00

T @ Sta 100+00 W on 18,658 B/L

Sta	+	H.I.	-	ELEV.
T.B.M.	4.33	15.56		11.23
N 2+77			3.2	12.4
N 2+32			2.9	12.7
N 1+93			2.6	13.0
N 1+90			4.8	10.8

HUB ON
101+00

Sta 102+00

T @ Sta 102+00 on 18,658 B/L

Sta	+	H.I.	-	ELEV.
T.B.M.	5.31	16.54		11.23
N 2+100			4.3	12.3
N 2+16			3.9	12.7
N 1+87			3.8	12.8
N 1+74			3.4	13.2
N 1+68			5.0	11.6
N 1+58			5.3	11.3

Hub on
Sta 101+00

Sta 103+00

Sta 105+00

(27)

T @ Sta 103+00 on 18,658 TBL

T @ Sta 105+00 on 18,658 TBL

Sta	+	HI	-	Elev	Hub
TB.M.	5.50	16.73		11.23	Sta 103+00
N. 2+54			4.1	12.6	
N. 2+17			4.2	12.5	
N. 1+81			3.9	12.8	
N. 1+55			3.8	12.9	
N. 1+41			4.9	11.8	
N. 1+38			5.4	11.3	

Sta	+	HI	-	Elev	Hub
TB.M.	5.22	16.65		11.43	Sta 105+00
N. 2+82			5.3	11.3	
N. 1+06			4.8	11.8	
N. 1+30			4.0	12.6	
N. 1+47			4.1	12.5	
N. 1+74			3.7	12.9	

WALL OF HOUSE

Location of House* (GRAND & BOND)

STA AZIM PROD ELEV

Sta 104+00

T @ Sta 104+00 on 18,658 TBL

Sta	+	HI	-	Elev	Hub
TB.M.	3.39	14.82		11.43	Sta 104+00
N. 2+72			3.25 1.36 1.89	12.9	
N. 2+40			2.70 1.20 1.50	13.3	
N. 2+21			7.20	13.6	
N. 1+96			4.2	10.6	
N. 1+66			3.9	10.9	
N. 1+53			4.4	10.38	Curb
N. 1+53			4.97	9.85	Gutter

STA	AZIM	PROD	ELEV
177'	335° 45'	-3.8	12.8
174'	01° 10'	-3.6	
173'	06° 00'		



3-23-50

EXTENSION NORTH OF 106+00

STA	+	H.I.	-	ELEV
T.B.M.	6.89	18.32		11.43
N. 1+28			6.0	12.3
N. 1+76			6.0	12.3
N. 2+20			5.4	12.9

EXTENSION Sta 107+00

PI @ Sta 107+00 on 18,658 B.L.

Sta	+	H.I.	-	Elev
T.B.M.	5.72	12.15		11.43
N. 1+00			5.0	12.1
N. 1+45			5.0	12.1
N. 1+95			4.6	12.5
T.B.M.			7.59	12.61

C. BRADSHAW
A. SHERRY
H. BROWN

3-23-50

CARR
WARR
CLEAR

28

STA-108+00 W

Sta. 108+00

STA	+	H.L.	-	ELEV	Sta	+	H1	-	Elev
0+00 =		STA-108+00 W ON 18658 B/L					17.25		
T.B.M.	4.64	17.25		12.61	S 5+15		9.9		7.3
0+00			5.2	12.0	S 5+68		10.2		7.0
N. 0+45			4.8	12.4	S 5+70		7.0		10.2
N. 0+95			5.0	12.2					
N. 1+47			5.0	12.2					
N. 1+95			5.1	12.1					
N. 2+44			4.9	12.3					
S 0+26			4.8	12.4					
S 0+35			2.5	14.7	S 5+25		12.3		
S 0+51			2.5	14.7	S 4+35		12.1		
S 0+60			5.7	11.5	S 4+00		11.2		
S 1+01			6.4	10.8	S 3+68		7.9		
S 1+21			6.1	11.1	S 2+70		6.8		
S 1+28			9.4	7.8	S 2+47		7.8		
S 2+24			11.2	6.0	S 2+10		8.2		
S 3+25			10.5	6.7	S 1+92		6.3		
S 4+17			10.1	7.1	S 1+45		6.5		

Sta 109+00

T.B. 109+00 ON 18658 B/L

Sta + H1 - Elev

TBM

Sta 109+00 W

Sta 110+00

Sta	H1	-	Elev
S. 0+87	17.91	6.1	11.8
S. 0+76		2.4	15.5
S. 0+61		2.7	15.2
N. 5.0+56		5.1	
N. 5.0+23		6.5	
N. 5.0+7		6.8	
N. 0+00	5.30	17.91	5.3 12.61
N. 0+49		5.3	12.6
S. N. 1+00		5.4	12.5
S. N. 1+47		5.1	12.8
S. N. 2+00		5.3	12.6
S. N			
S			
S			
S			
S			
S			
S			

RCP 30' N / Sta 110+00 W 18.6580%

Sta	H1	-	Elev
TBM	5.73	18.34	12.61
0+00		5.2	13.1
0+40		5.2	13.1
0+84		5.4	12.9
1+40		5.5	12.8
1+80		5.4	12.9
2+19		5.4	12.9
2+36		10.4	7.9
2+45		11.0	7.3
2+52		12.7	5.6
2+72		12.6	5.7
2+80		12.7	5.6
2+86		12.4	5.9
2+95		9.9	8.4
3+45		10.6	8.3
3+50		13.1	5.2
3+18		13.2	5.1

Hurb. 109+00

Sta 110+00

Sta	+	H.I.	-	Elev
S. 4+37		18.34	11.2	7.1
S. 4+65			8.5	9.8
S. 5+62			8.6	9.8

LOCATION & Flowing El. Of 30" Cul

STA	+	H.I.	-	ELEV
T.B.M	3.86	21.01		17.15
1/4 30" Pipe			5.91	13.10
T.B.M	8.72	18.55		9.83
1/2 30" Cul			6.86	11.69

	AZIM.	DIST	REMARKS
P.T. ON R. CUL			
TOP OF SHOULDER	345°	17'	60'

	ABOVE	POINT
E/END	73° 32'	71'

W/END	223° 32'	9'
-------	----------	----

P.T. ON R. CUL #220+50	10° 30'	136.15'
------------------------	---------	---------

E/END	44° 10'	74'
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W/END	224° 10'	11.2'
-------	----------	-------

357.60
192.17
165.43

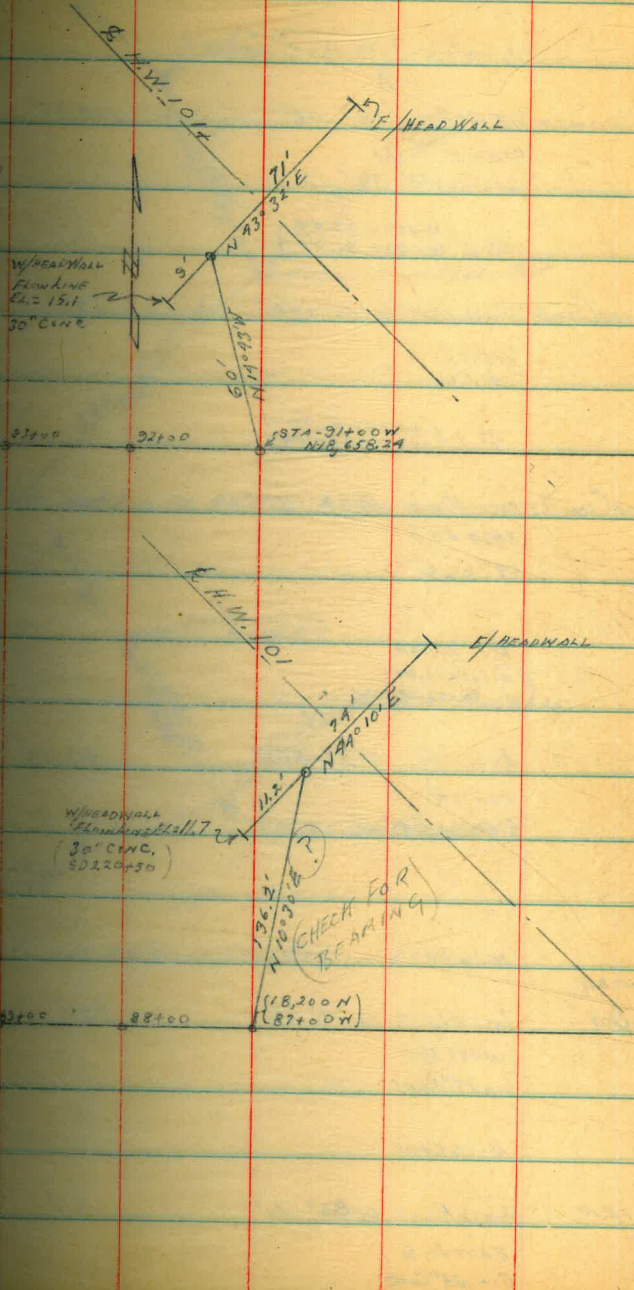
W/HEADWALL
Flowing
El. = 15.1
30" CUL

87+00
88+00
89+00
87+00 W
N 86.55.24

W/HEADWALL
Flowing El. = 11.72
30" CUL
SD 220+50

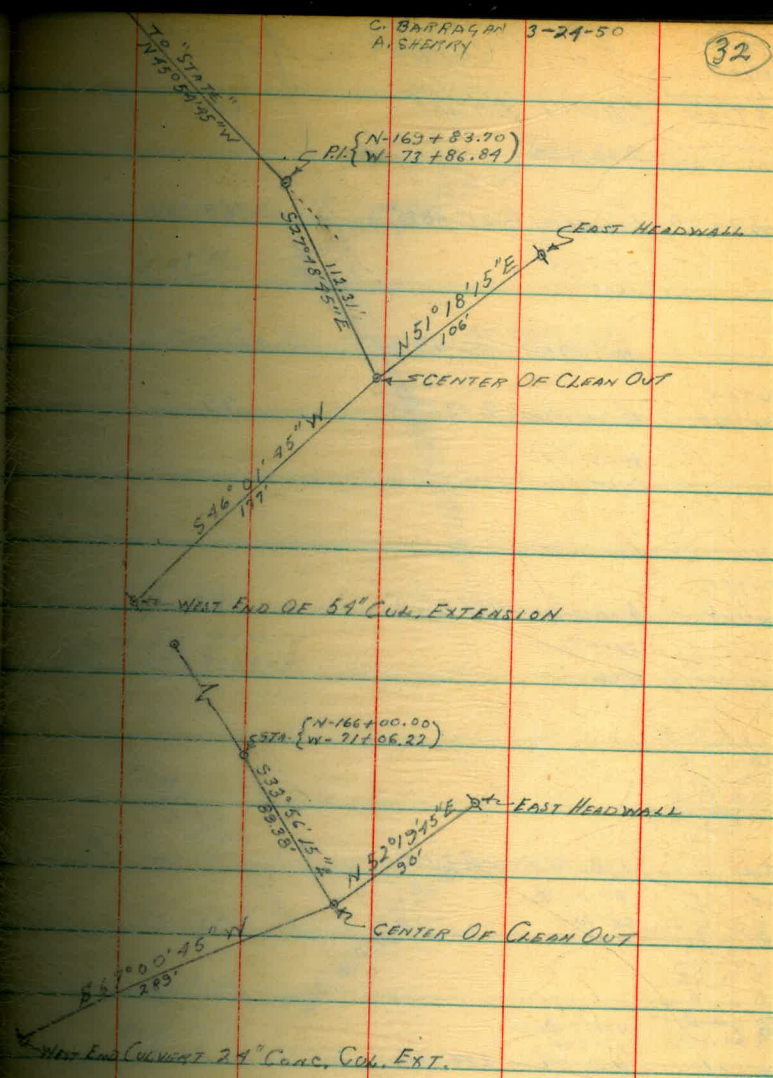
(18,200 N)
(87+00 W)
CHECK FOR
BEARING

87+00
88+00
89+00



LOCATION OF EXISTING CULVERTS H.W. 101

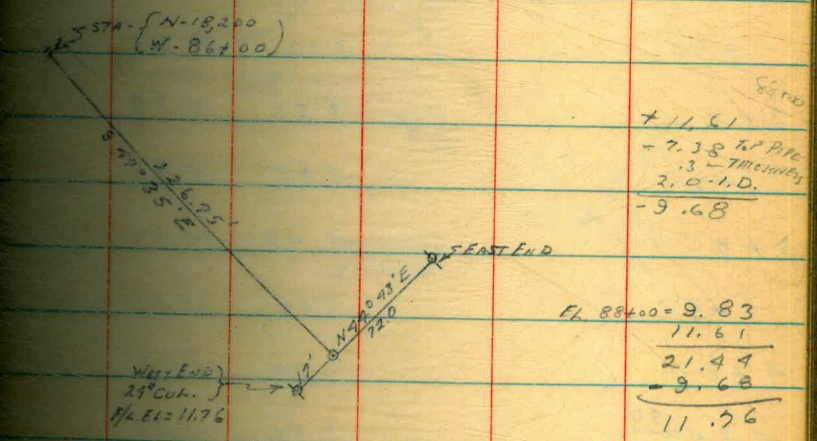
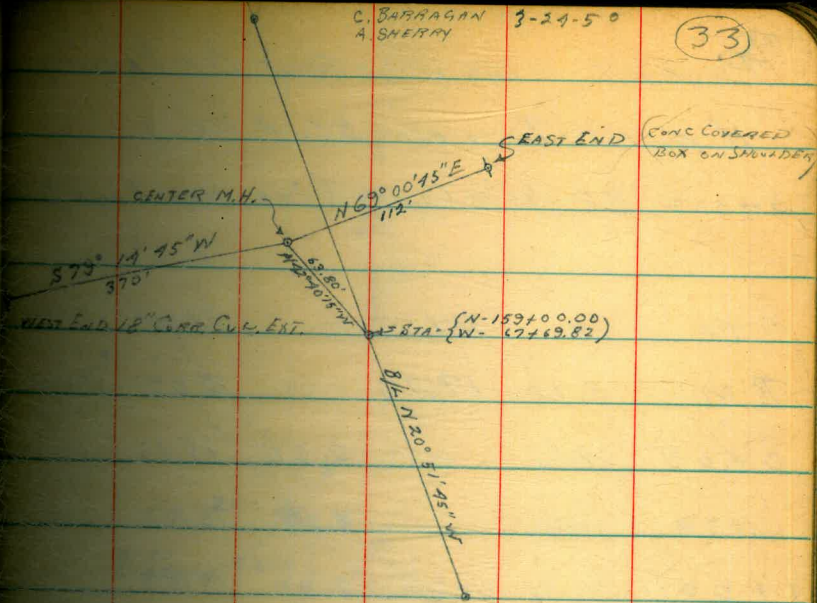
STATION	OBJECT	ANGLE	DIST	BEARING
	STATE			
	①			
0 P.L.	DEF RT	18° 06'	112.31'	
	CENTER	②		
	CLEAN OUT	59° 36' 12"		
	P.I.	(N-169+83.70 W-73+86.84)		
N.	③ CENTER CLEAN OUT	ANGLE LEFT ① 106° 09' 30"	177'	
N.	WEST END	54" CUL.		
N.	P.I.	(N-169+83.70 W-73+86.84)		
N.	④ CENTER CLEAN OUT	ANGLE RIGHT ① 79° 07'	106'	
N.	EAST END	59" CUL.		
S	P.I. SOUTH	(N-165+85.80 W-70+93.99)		
S	N-166+00	ANGLE LEFT ① 2° 14' 30"	89.73'	
S	CENTER CLEAN OUT (24" CONC)			
S	N-166+00			
S	CENTER CLEAN OUT	ANGLE LEFT ① 79° 03'	289'	
S	WEST END	CUL. 24" CONC		
S	N-166+00			
S	CENTER CLEAN OUT	ANGLE RIGHT ① 86° 16'	30'	
S	EAST END	CUL. 24" CONC		



LOCATION OF 18" CORR. CUR EXT.

STATION	OBJECT	ANGLE	DIST	BEARING
	N-161400	21° 48' 30"	63.80'	
	CENTER CLEAN OUT			
	N-159400			
	CENTER CLEAN OUT			
	ANGLE RIGHT @ 121° 55'		370'	
	WEST END CUR			
	N-159400			
	CENTER CLEAN OUT			
	ANGLE LEFT @ 68° 19'		112'	
	EAST END CUR			

STA	OBJECT	AZIM	DIST	BEARING
18,200 3/4	PT. ON E 24" CUL.			
86400	H.W.-101	132° 25'	226.95'	
	WEST END 24" CUL.			
	H.W.-101	224° 41'	16.8	
	EAST END 24" CUL.			
	H.W.-101	44° 43'	72.0	



+ 11.61
 - 7.38 KP PIG
 .3 - TRENCHES
 2.0 - I.D.
 - 9.68

 11.76

H.W. 101 W/E END 216 + 40

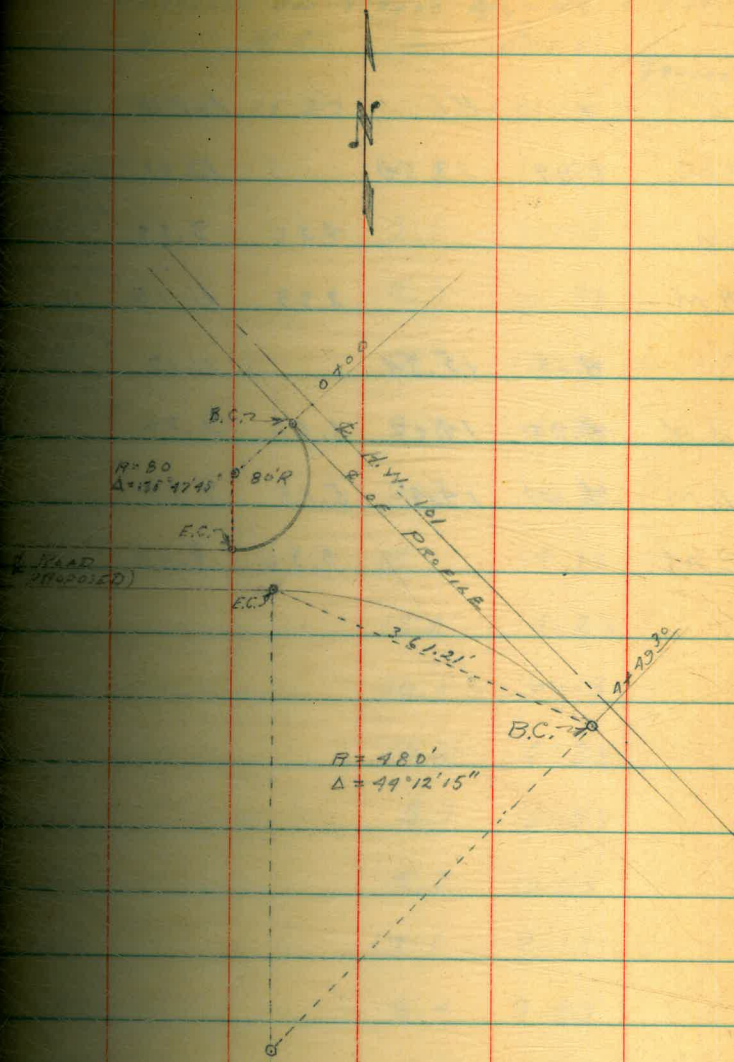
C. BARRAGAN 3-24-50
A. SHERIDAN (33)

PROFILE ALONG WEST EDGE OF PAVING

H.W. 101 (BETWEEN B.C. & B.C.)

0+00 = B.C. 80' R CURVE (SEE NEXT PAGE)

	STA	+ H.I.	-	ELEV
N.	B.M.	5.70	17.79	12.09 STA
N.	0+00		2.66	15.13
N.	+50		2.77	15.02
N.	1+00		2.90	14.89
N.	+50		3.02	14.77
S.	2+00		3.21	14.58
S.	+50		3.38	14.41
S.	3+00		3.49	14.30
S.	+50		3.65	14.14
S.	4+00		3.74	14.05
S.	4+49 ³⁰		3.86	13.93



LEVELS FOR X-SECTIONS - ROSE CREEK -

STA - 184+00 - N

0+00 = STA. 184+00 ON 112+00 B/W - SEC. E. & W.

STA + H.I. = ELEV

184+00-N
112+00-W

STA	+	H.I.	-	ELEV			
T.B.M.	0.97	13.58		12.61	STA-109+10 18658	T.B.M	5.04 16.23 11.19
T.B.M.			4.26	9.32	NAILED TOP OF OLD PILE @ WATER INTERSECT.	0+00	5.2 11.03
T.B.M.			2.39	11.19	TOP HUB 184+00 ON 112+00	0+61	5.1 11.13
"	4.15	15.34		11.19	{ 184+00-N 112+00-W }	1+10	5.3 10.93
T.B.M.	4.90	14.62	5.62	9.72	{ 180+00-N 112+00-W }	1+54	5.9 10.33
T.B.M.	4.67	14.14	5.15	9.47	{ 176+00 112+00 }	1+66	9.7 6.53
T.B.M.			5.36	8.78	{ 172+00 112+00 }	1+87	9.9 6.33
						1+90	12.1 4.13
						2+02	12.0 4.23
						2+06	10.1 6.13
						2+51	10.0 6.23
						2+58	5.7 10.53
						2+86	5.7 10.53
						3+00	7.1 9.13
						3+20	6.4 9.83
						3+27	5.3 10.93
						3+43	5.1 11.13
						3+51	9.0 7.23

Sta	Hi	-	Elev
3+97	16.23	10.0	5.23
4+25		8.7	7.53
4+65		7.4	8.83
5+10		7.5	8.73

Sta 183+00 N 1-9-50

Sta	+	Hi	-	Elev
BM	4.51	15.70		11.19
5+06			7.6	8.1
4+70			7.6	8.1
4+32			7.8	7.9
3+90			9.0	6.7
3+57			8.7	7.0
3+45			4.3	11.4
3+15			4.8	10.9
2+86			5.2	10.5
2+80			8.7	7.0
2+73			11.0	4.7
2+67			11.0	4.7
2+66			9.6	6.1
2+30			9.3	6.4
2+26			12.0	3.7
2+11			11.4	4.3
2+06			10.2	5.5
1+94			9.5	6.2
1+82			5.7	10.0

184+00 N }
112+00 W }

Sta	+	Hi	-	Elev
1+42		15.70	5.9	9.8
0+80			5.3	10.4
0+43			5.1	10.6
0+00			5.0	10.9

182 +00 N 4-4-50 (37)

Sta	+	Hi	-	Elev
TBM	4.15	15.34		11.19
TBM			5.62	9.72
0100			5.2	10.1
0+57			5.0	10.3
1+04			4.8	10.5
1+56			5.0	10.3
2+17			5.5	9.8
2+18			7.6	7.7
2+21			10.3	5.0
2+40			12.2	3.2
2+50			9.4	5.9
3+06			9.9	5.4
3+15			5.2	10.1
3+62			4.7	10.6
3+68			9.1	6.2
3+90			8.8	6.5
4+30			7.1	8.2
4+50			6.2	9.1
4+82			7.1	8.2
5+50			5.6	9.7

184+00 N }
112+00 W }
Hub
Sta 180+00

PX

Sta. 181+00

Sta 180+00

PX

Sta	+	H.L.	-	Elev
T.B.M.	4.94	14.66	4.94	9.72
5+73			4.6	10.1
5+55			8.2	6.5
5+02			8.2	6.5
4+45			7.5	7.2
4+02			7.8	6.9
3+80			8.0	6.7
3+71			4.3	10.4
3+36			4.1	10.6
3+22			8.8	5.9
2+90			9.2	5.5
2+85			11.2	3.5
2+73			11.3	3.4
2+69			8.9	5.8
2+40			9.1	5.6
2+30			5.0	9.7
1+85			4.5	10.2
1+32			4.0	10.7
0+81			4.3	10.4
0+00			4.9	9.8

Hub
Sta 180

Sta	+	H.	-	Elev
T.B.M.	5.08	14.80		9.72
0+00			5.1	9.7
0+72			4.6	10.2
1+40			4.5	10.3
1+95			4.2	10.6
2+16			4.3	10.5
2+46			6.1	8.7
2+53			9.4	5.4
3+04			9.6	5.2
3+16			11.0	3.8
3+35			9.3	5.5
3+40			11.4	3.4
3+46			7.7	7.1
3+50			5.2	9.6
3+65			5.8	9.0
3+70			4.3	10.5
4+30			4.7	10.1
4+85			4.5	10.3
5+40			4.8	10.0

Hub
Sta 180+00

10 44 44 6.00

PX

Sta 179 + 00

Sta	+	Hi	-	Elev.	Hub 180+00
TBM	4.83	14.55		9.72	
5+35			4.6	9.0	
4+80			5.0	9.6	
4+40			4.5	10.1	
4+35			6.1	8.5	
4+20			6.3	8.3	
4+00			4.8	9.8	
3+70			4.4	10.2	
3+63			9.9	4.7	
3+50			9.9	4.7	
3+42			9.1	5.5	
3+15			8.4	6.2	
3+07			10.0	4.6	
2+84			10.5	4.1	
2+65			6.0	8.6	
2+12			4.8	9.8	
1+54			4.6	10.0	
0+83			4.5	10.1	
0+00			5.1	9.5	

4-4-50

(39)

Sta 178 + 00

PX

Sta	+	Hi	-	Elev	Hub 180+00
TBM	4.90	14.62		9.72	
TBM			5.15	9.47	Hub 176+00 N
TBM	4.67	14.14		9.47	Hub 176+00 X
TBM			5.36	8.78	Hub 172+00 N
TBM	5.12	14.59		9.47	Hub 176+00 N
0+00			5.1	9.49	
0+75			4.8	9.79	
1+40			4.6	9.99	
1+85			6.5	8.09	
2+32			6.7	7.89	
2+90			7.1	7.49	
3+25			9.1	5.49	
3+34			11.0	3.59	
3+85			10.7	3.89	
3+87			8.4	6.19	
3+98			4.6	9.99	
4+65			5.0	9.59	
5+00			5.2	9.39	
5+30			6.7	7.89	
5+95			7.7	6.89	

Sta 177+00 N
 0+00 = 112+00 N B/L = SECTION E & W

Sta	+	H _i	-	Elev
T.B.M	5.02	19.79 ⁵		9.47
6+04			5.6	8.9
5+15			5.1	9.4
4+58			4.6	9.9
4+20			4.2	10.3
4+10			8.5	6.0
4+05			11.1	3.4
3+85			11.1	3.4
3+52			9.3	5.2
3+03			7.0	7.5
2+90			6.3	8.2
2+60			7.5	7.0
2+11			5.5	9.0
1+65			6.4	8.1
1+32			4.2	10.3
0+73			7.7	6.8
0+00			5.0	9.5

H176+00
H112+00
HUB

STA-176+00-N 4-950 (50)
 6+00 = 112+00 B/L SECTION E & W

STA	+	H _i	-	ELEV
T.B.M	5.02	19.79 ⁵		9.47
6+00			5.0	9.5
5+47			4.7	9.8
5+09			5.0	9.5
4+31			5.2	9.3
4+32			6.4	8.1
4+96			6.3	8.2
4+50			7.0	7.5
4+00			7.3	7.2
3+35			6.7	7.8
3+65			8.5	6.0
3+78			10.0	4.5
4+12			10.8	3.7
4+40			7.4	7.1
4+51			4.8	9.7
5+26			4.5	10.0
5+95			5.4	9.1
6+60			5.6	8.9

176+00-N
112+00 O.W
HUB

STA-175+00N

0+00 = 112+00W B/L = Sec. L. & W

STA	H.I.	ELBY
T.B.M	5.00	14.77 13.97
0+00		5.1 9.4 8.4
E-0+51		5.5 9.0 8.0
E-1+00		5.1 9.4 8.4
E-1+46		6.0 8.5 7.5
E-1+90		6.1 8.4 7.4
E-2+25		6.6 7.9 6.9
E-2+40		7.7 6.8 5.8
E-2+60		5.8 8.7 7.7
E-3+00		5.3 9.2 8.2
E-3+50		5.9 8.6 7.6
E-3+77		7.6 6.9 5.9
E-3+80		9.6 7.9 3.9
E-4+10		10.2 7.3 3.3
E-4+66		9.0 5.5 4.5
E-4+82		5.8 8.7 7.7
E-5+55		5.6 8.9 7.9
E-6+30		5.3 9.2 8.2

STA-174+00

(51)

STA	H.I.	ELBY
T.B.M	4.54	14.01
0+00		4.9 9.1
0+51		4.8 9.2
1+00		4.6 9.4
1+33		4.7 9.3
1+80		4.7 9.3
2+10		7.3 6.7
2+28		6.9 8.1
2+40		5.7 8.3
2+87		5.2 8.8
3+45		5.6 8.4
3+96		6.2 7.8
4+23		9.0 5.0
4+41		10.3 3.7
4+80		9.8 4.2
4+63		8.1 5.6
4+91		9.6 4.4
5+00		7.8 6.2
5+11		7.2 6.8
5+22		4.7 9.3
6+10		5.5 8.5
6+30		6.1 7.9

PX

STA-173+00-N

6+00 = 112+00 W

STA	+	H.I.	-	ELEV
T.B.M	5.32	19.10		8.78
0+00			5.2	8.9
0+50			5.1	9.0
1+09			5.2	8.9
1+60			5.5	8.6
1+79			7.1	7.0
1+91			7.3	6.8
2+17			5.0	9.1
2+67			5.9	8.7
3+21			6.1	8.0
3+58			5.0	9.1
4+23			6.1	8.0
4+32			9.1	5.0
4+60			10.1	4.0
5+20			9.6	4.5
5+23			7.6	6.5
5+45				
6+75			7.8	6.3
5+55			5.9	8.7
6+40			6.1	8.0
7+00			6.1	8.0

STA 172+00 N

SEE PAGE 51

PX

52

0+00 = 112+00 W

STA	+	H.I.	-	ELEV
T.B.M	5.05	13.83		8.78
0+00			5.2	8.6
0+51			5.1	8.7
1+10			7.3	9.5
1+22			5.6	8.2
1+46			6.0	7.8
1+48			7.2	6.6
2+01			7.7	9.1
2+58			5.0	8.8
3+03			5.3	8.5
3+69			5.9	8.4
4+32			5.5	8.3
4+43			8.7	5.1
4+72			9.6	4.2
5+25			9.8	4.0
5+35			7.6	6.2
5+58			7.0	6.8
5+65			5.6	8.2
6+16			6.1	7.7
6+70			6.4	7.4
6+92			3.7	10.1

STA 171+00 N

0+00 = 112+00 W

PX

STA	+ H.I.	-	ELEV
T.B.M	5.00	13.78 ⁸	8.78
0+00		5.1	8.7
E 0+52		9.9	8.9
E 0+82		9.9	9.4
E 0+87		5.4	8.4
E 1+49		5.6	8.2
E 1+96		6.0	7.8
E 2+50		5.7	8.1
E 3+00		5.6	8.2
E 3+60		6.0	7.8
E 4+06		5.6	8.2
E 4+35		6.1	7.7
E 4+46		7.9	5.9
E 4+83		8.8	5.0
E 5+59		9.1	4.7
E 5+97		7.4	6.4
E 5+83		6.4	7.4
E 6+30		7.4	6.4
E 6+80		6.9	6.9
E 7+15		3.8	10.0

STA 170+00 N 4+8-50

(53)

0+00 = PT 400' EAST OF (112+00 W B/L)

PX

STA	+ H.I.	-	ELEV
T.B.M	7.90	13.98	8.98
SET			7.91
T.B.M		5.57	8.91
0+00			7.91
T.B.M	9.51	12.42	8.91
E 0+00			4.0
E 1+15			3.9
E 2+15			7.3
E 2+35			4.1
E 1+80			4.2
E 1+30			4.9
E 2+73			4.2
E 3+28			7.5
0+00			5.1
E 0+30			5.9
E 0+65			5.2
E 0+70			6.9
E 1+23			7.3
E 1+91			7.1
E 2+00			5.4
E 2+51			6.1
E 2+86			5.6
E 3+32			2.1

{ 172+00 N
112+00 W
HUB

{ 168+00 N
112+00 W
HUB

{ 168+00 N
112+00 W

PX

169+00

0+00 = 108+00 W

STA + H.L. - ELEV

T.B.M 4.92 12.33 7.91

W-400 4.2 8.1

W-3+50 4.0 8.3

W-2+95 4.3 8.0

W-2+50 4.6 7.7

W-1+98 4.5 7.8

W-1+48 4.8 7.5

W-1+02 5.9 6.4

W-0+62 5.4 6.9

W-0+60 4.2 5.1

W-0+51 8.2 4.1

W-0+49 3.1 5.2

W-0+40 5.4 6.9

0+00 4.9 7.4

E-0+28 5.1 7.2

E-0+67 6.2 6.1

E-1+00 6.2 6.1

E-1+01 5.5 6.8

E-1+06 7.3 5.0

168+00
112+00

169+00 N 4-5-50

(54)

PX

STA + H.L. - ELEV

H.L.

12.33

E-1+57 7.3 5.0

E-2+18 7.0 5.3

E-2+22 5.6 6.7

E-2+91 6.1 6.2

E-3+17 5.9 6.4

E-3+46 2.5 9.8

Dist Sta 127+00

ELEV Dist Rod Elev

4.92

PX

168+00 N
0+00 = 108+00 W

STA	+	H.I.	-	ELEV
		11.38		7.91
7.3.21	3.47	12.38		8.0
W-400			3.5	7.9 8.9
W-3+47			3.6	7.8 8.8
W-2+93			3.9	7.5 8.5
W-2+51			5.1	6.3 7.3
W-2+35			3.6	7.8 8.8
W-2+02			3.6	7.8 8.8
W-1+54			3.3	8.1 9.1
W-1+25			4.3	7.1 8.1
W-1+22			5.6	5.8 6.8
W-1+20			5.8	5.6 6.6
W-1+16			4.7	6.7 7.7
W-0+96			4.6	6.8 7.8
W-0+90			4.4	7.0 8.0
W-0+67			5.5	5.9 6.9
W-0+63			4.5	6.9 7.9
W-0+47			4.6	6.8 7.8
W-0+42			5.9	5.5 6.5
W-0+36			5.3	7.16.1
0+00			5.1	7.36.3

168+00 4-5-50

55

0+00 = 108+00 W PX

Sta	+	H.I.	-	Elev
		11.38		6.3
0+57		12.38		7.3
1+09		5.1		6.3 7.3
1+10		4.5		6.9 7.9
1+17		5.6		5.8 6.8
1+32		5.9		5.5 6.5
1+37		7.4		4.0 5.0
1+42		7.7		3.7 4.7
1+46		6.1		5.3 6.3
1+90		5.8		5.6 6.6
2+26		6.3		5.1 6.1
2+30		7.0		4.4 5.4
2+37		7.2		4.2 5.2
2+40		6.2		5.2 6.2
2+60		4.9		6.5 7.5
2+98		5.8		5.6 6.6
3+32		5.8		5.6 6.6
3+66		1.1		9.7 10.7
TP		11.38		4.84
		7.91	3.07	3.84
				8.31
				8.35
				.04

4" x 4" 20' ELEV
105+00 W SECTION
LINE # 300' ELEV
(108+00 W)
(168+00 W)

EX =

PX

166+00
167+00

0+00 = 108+00W -

STA	+	H.I.	-	FLY
	2.98	10.89 9.88		7.91
W/ 1+00 0+00			3.5	7.4 6.4
W 3+48			3.4	7.5 6.5
W - 2+95			3.7	7.2 6.2
W - 2+47			3.4	7.5 6.5
W - 2+30			2.8	8.1 7.1
W - 1+86			3.6	7.3 6.3
W - 1+82			4.8	6.1 5.1
W - 1+68			5.3	5.6 4.6
W - 1+66			4.3	6.6 5.6
W - 1+16			5.1	5.8 4.8
W - 0+63			5.0	5.9 4.9
0+00			5.0	5.9 4.9
E-0+80			4.8	6.1 5.1
E-1+62			4.8	6.1 5.1
E-1+64			3.9	7.0 6.0
E-1+75			6.6	4.3 3.3
E-1+79			7.4	3.5 2.5

166+00
167+00

0+00 = 108+00W

HI 9.89

STA	+	H.I.	-	FLY
				10.89
1+81				6.2
2+15				5.8
3+50				5.9
2+60				6.8
2+66				5.5
2+72				4.9
3+19				5.5
3+60				4.9
3+91				1.0
7.60	12.51			7.91
7.62	11.75	4.68		7.83
		4.19		7.37 7.31
		3.73		7.82 7.72

4-7.37
3-8.15
56
PX

11.95

109+00
DE-ANZA 8/4
105+00
DE-ANZA 8/4

9X Sta 185+00 N 4-14-58

0+00 = 112+00 W - (2/4)

STA	f	H.I.	-	ELEV
T.B.M	5.87	17.06		11.19
0+00			5.1	11.9
E 0+45			5.2	11.8
E 0+85			5.2	11.8
E 0+90			6.7	10.3
E 1+12			7.9	9.1
E 1+25			6.8	10.2
E 1+40			11.4	5.6
F 1+62			10.3	6.7
F 1+64			12.2	4.8
F 1+70			12.2	4.8
F 1+72			11.1	5.9
F 1+84			11.2	5.8
F 1+87			13.4	3.6
F 2+14			15.4 12.4 ^{+2.0}	1.6
F 2+16			10.8	6.2
F 2+29			8.9	8.1
F 2+33			5.7	11.3

20' 5.90 (57)
E (156+00 ON)
106+00 W

9X

STA-185+00-N

Sta	f	H.I.	-	Elev
2+38		17.06	5.3	11.7
2+42			6.1	10.9
2+96			5.7	11.3
3+12			5.9	11.1
3+51			5.9	11.1
3+57			9.3	7.7
4+67			8.8	8.2
5+40			8.2	8.8
5-50 (NEST IF NEEDED)			5.7	12.3
1+00			5.3	12.7
1+50			5.0	13.0

PX Sta 186+00 N 4-14-50

0+00 = 112+00 W - 2/4

Sta	+	H.I.	-	Elev
TRM	6.81	18.00		11.19
W1+94			4.3	13.7
W1+44			4.6	13.4
W0+80			5.1	12.9
0+00			5.2	12.8
E0+45			6.0	12.0
E0+82			6.2	11.8
E-0+95			10.3	7.7
E-1+28			10.8	7.2
E-1+57			11.8	6.2
E-1+59			13.6	4.4
E-1+62			13.5	4.5
E-1+63			12.7	5.3
E-1+90			11.5	6.5
E-2+04			12.7	5.3
E-2+07			10.0	8.0
E-2+26			5.0	13.0
E 2+40			7.6	10.4
E 2+80			7.0	11.0

186+00 N PX 4-14-50 (58)

Sta	+	H.I.	-	Elev
3+57	18.00	5.7		11.3
3+80		5.6		11.4
4+14		3.7		14.3
4+65		4.2		13.8
5+10		6.3		11.7
5+38		7.2		10.8
5+46		6.2		11.8
				10.4
				10.5
				11.63
				7.37
				7.22
				7.26
				3.81

Sta 187+00 N
 0+00 = 112+00 W 8/6

Sta	+	H.I.	-	Elev
T.B.M	7.42	18.61		11.19
W 1+50			4.6	14.0
W 1+04			4.8	13.8
W 0+54			5.1	13.5
0+00			5.2	13.4
E 0+27			5.8	12.8
E 0+34			5.7	12.9
E 0+36			7.9	10.7
E 0+48			10.9	7.7
E 0+78			11.2	7.4
E 1+22			11.4	7.2
E 1+31			13.0	5.6
E 1+42			12.7	5.9
E 1+45			11.8	6.8
E 1+65			12.6	6.0
E 1+70			8.8	9.8
E 1+76			8.2	10.4
E 1+78			6.0	12.6

4-17-50 (59)
 Sta 187+00

Sta	+	H.I.	-	Elev
187	+	18.61	5.0	
2+40			5.7	12.9
2+95			6.6	12.0
3+50			6.1	12.5
4+00			6.0	12.6
4+60			6.3	12.3

PX
 N-172+00 (EXT. - EAST)
 0+00 = 104+00W - 8/4
 STA + H.I. - ELEV

STA	H.I.	ELEV
T.B.M	6.40	14.76
F-0+50		6.2
0+00		6.1
W-0+50		6.8
0+72		6.8
W-4+00		5.9
W-0+91		4.6
W-0+97		10.2

SEE PAGE 63
 STA-171+00-N (EXTENSION EAST)
 0+00 = W-104+00 8/4
 STA + H.I. - ELEV

STA	H.I.	ELEV
W-0+78	14.76	4.8
W-0+67		6.0
W-0+50		6.1
0+00		6.4
F-0+50		5.9

STA-170+00-N (EXT. - EAST)
 0+00 = W-104+00 8/4
 STA + H.I. - ELEV

STA	H.I.	ELEV
0+00		6.1
0+50		6.0
0+00		6.1
0+25		6.3
0+00		5.8
0+00		4.6
0+50		5.4

SEE PAGE 64
 STA-167+00-N (EXT. - EAST)
 0+00 = W-104+00 8/4
 STA + H.I. - ELEV

STA	H.I.	ELEV
0+91	14.76	4.7
0+79		5.8
0+66		6.2
0+60		6.3
0+50		6.1
0+50		6.3
0+00		6.3

PX

N-168+00 (EXT. EAST)

0+00 = W-104+00 5/4

STA	+	H.I.	-	ELEV
E-1450		19.76 ⁸	6.5	8.3
E-1400			6.2	8.6
E-0+50			6.0	8.8
0+00			5.9	8.9
W-0+12			6.0	8.8
W-0+22			4.7	10.1

PX

STA- N-167+00 (EXT. EAST)

0+00 = W-104+00 5/4

STA	+	H.I.	-	ELEV
0+00		19.76 ⁸	4.7	10.1
E-0+17			5.7	9.1
E-0+65			6.1	8.7
E-1420			6.3	8.5
E-1450			6.1	8.7

7-18-50

(62)

SEE PAGE 55

N-166+00 (EXT. EAST)

STA	+	H.I.	-	ELEV
0+00 = W-104+00			5/4	
STA	+	H.I.	-	ELEV
0+00		19.76 ⁸	6.3	8.5
0+10			5.2	9.6
0+22			5.3	9.5
0+17			5.9	8.9
0+20			6.1	8.7
0+20			6.0	8.8

PX

(PAGE 55)

STA- 165+00 N- (EXT. EAST)

STA	+	H.I.	-	ELEV
0+00 = W-104+00			5/4	
STA	+	H.I.	-	ELEV
0+00		19.76 ⁸	8.3	6.5
0+10			8.1	6.7
0+20			5.3	9.5
0+22			4.7	10.1
0+20			5.5	9.3
0+26			6.0	8.8
0+20			5.8	9.0
0+50			5.6	9.2
0+30			5.8	9.0

PX

PX

STA- 164+00 -N (EXT. EAST)

0+00 = 104+00-W B/L.

STA	T	H.I.	-	ELEV
E-0+20		14.76 ⁸	9.1	5.7
E-0+41			5.3	9.5
E-0+50			5.2	9.6
E-0+61			5.2	9.6
E-1+00			5.4	9.4
E-1+50			5.3	9.5
E-2+00			5.2	9.6

PX

STA- 163+00 -N (EXT. EAST)

0+00 = W-104+00 B/L

STA	T	H.I.	-	ELEV
E-0+36		14.76 ⁸	8.9	5.9
E-0+50			6.8	8.0
E-0+62			5.1	9.7
E-0+74			4.9	9.9
E-1+00			5.6	9.2
E-1+50			5.1	9.7
E-2+00			5.0	9.8

STA- 162+00 -N (EXT. EAST)

0+00 = W-104+00 B/L.

PX

STA	T	H.I.	-	ELEV
E-0+20		14.76 ⁸	10.0	4.8
E-0+41			5.3	9.5
E-0+50			7.8	10.0
E-0+61			4.9	9.9
E-1+00			5.0	9.8
E-1+50			4.55	10.21

CHECK LEVELS BACK TO GRAND ST

160	3.23	9.63		5.90	2"X2"20'E (155+00N 106+00W)
161	3.79	10.20	3.22	6.71	20'X17'5"X 161+00N 105+00W
162	3.79		3.87	6.33	2"X4"20'E (162+00N 106+00W)
163	4.21	11.63	3.48	6.22	T.P TEMP.
164	3.84		3.84	7.79	105+00 (OLD) DE-ANZAS B/L
165	4.26		4.26	7.37	(OLD) 104+00 DE-ANZAS B/L

WILL CHECK 98 & 97 FOR H.I.

STA - 98+00 W

Px

0+00 = 152+00 N : Sec - N/S/S

STA + H.I. - ELEV

T.B.M 5.22

T.P 9.29 +4.39 4.90

T.P +3.39 5.90

T.P 7.69 14.36 2.62 6.67

" 4.37 13.78 4.95 9.41

S-0+96 10.9 2.9

S-0+54 10.2 3.6

S-0+04 6.3 7.5

0+00 4.37 4.5 9.3

N 0+05 4.2 9.6

N 0+47 4.3 9.5

N 1+00 4.7 9.1

Sta 97+00

Px

(64)

Sta + H.I. - Elev

T.B.M 4.75 14.16 14.76 9.41

11.22 1A 11.4 2.6

10.96 10.5 3.7

10.50 7.5 6.7

10.48 6.9 7.3

10.43 6.6 7.6

10.39 4.6 9.6

10.00 4.8 9.4

10.51 5.1 9.1

11.03 5.5 8.7

1x1 Hub
N-152+00
Sta 98+00

STA 153+00 - N

0+00 = 104+00 W & 153+00 - N SEC - E/W

STA + H.L. - ELEV

T.P. 3.52 9.42 5.90

W-2+00 6.0 3.4

W-1+55 5.3 4.1

W-1+15 5.3 4.1

W-0+65 5.1 4.3

0+00 5.2 4.2

E-0+52 5.2 4.2

E-1+20 5.4 4.0

E-1+35 6.4 3.0

E-1+42 7.4 2.0

E-1+43 8.2 1.2

E-2+00 8.2 1.2

E-2+01 7.0 2.4

E-2+56 6.0 3.4

E-3+20 5.5 3.9

E-3+62 4.7 4.7

E-4+13 2.5 6.9

E-4+23 0.0 9.4

E-4+93 0.3 9.1

0.6 8.8

CROSS SECTIONS OF SCHOOL
PROPERTY WLY FROM ROSE-
CREEK DEANZA PROJ N° 3.3

July 11, 1950

(66)

T. Stamper
C. Barragan
A. Sherry
H. Brown
B. Carver

PX

Sta + H.I. - Elev

B.M. 7.36 16.68 9.32

PX Sta 185+00 N.

0+00 = W 112+00

0 5.0 11.7

E 70 5.0 11.7

E 95 5.9 10.8

E 103 8.0 9.7

E 141 6.3 10.4

E 150 9.5 7.2

E 170 10.0 6.7

E 187 11.9 4.8

E 211 11.9 4.8

E 196 13.4 3.3

E 216 10.0 6.7

E 230 10.5 6.2

E 238 8.6 8.1

E 243 5.4 11.3

E 296 5.5 11.2

E 338 4.9 11.8

See Pg. 35

See File 20d Nail @ W. End ROSE CREEK

Sta 185+00 W

Sta + H.I. - Elev

16.68

153 4.5 12.2

105 4.2 12.5

156 4.0 12.7

205 3.6 13.1

78 6.10 10.58

2x2" Hub
N 183+00
W 112+00

PX 0+00 = W12+00 W
Sta 184+00 N

July 11, 1950

Sta	+	H.I.	-	Elev
TBM	5.37	15.95		10.58
0			5.0	10.9
W50			4.7	11.2
W100			4.5	11.4
W150			4.5	11.4
W200			4.2	11.7

Sta 182+00 - 0+00 = W112+00

Sta	+	H.I.	-	Elev
TBM	4.20	14.78		10.58
0			5.3	9.5
40			4.6	10.2
100			4.4	10.4
150			4.1	10.7
200			3.8	11.0

Sta 183+00 N 0+00 = W12+00

Sta	+	H.I.	-	Elev
	5.13	15.71		10.58
W283			³ 2.7	² 10.0
W228			3.9	11.8
W180			4.2	11.5
W130			4.6	11.1
W80			5.1	10.6
0			5.2	10.6

Sta 181+00 - 0+00 = W112+00

Sta	+	H.I.	-	Elev
TBM	4.47	15.05		10.58
205			4.6	10.4
155			4.7	10.3
110			4.8	10.2
60			5.7	9.3
0			5.0	10.0
T.P.			5.53	9.52

2x 2 Hub
N183+00
W112+00

N183+00
W112+00

2x 2
N179+00
W112+00

PR Sta 180+00 N=0+00=W112+00

July 11, 1950

(67)

Sta + H.I. - Elev

Sta 179+00 N 0+00=W112+00

TBM 5.17 14.69 9.52

Sta + H.I. - Elev

TBM 5.01 14.53 9.52

N179+00

W112+00

0 5.1 9.6

530 4.1 10.4

W 50 4.7 10.0

494 4.2 10.3

W 100 5.1 9.6

432 4.0 10.5

W 145 5.8 8.9

382 4.2 10.3

W 160 4.2 10.5

320 3.7 10.8

W 200 4.4 10.3

320 4.9 9.6

W 248 4.4 10.3

308 4.2 10.3

W 296 3.8 10.9

262 4.6 9.9

W 353 3.3 11.4

210 5.1 9.4

W 361 5.4 9.3

160 5.3 9.2

W 368 3.3 11.4

110 5.5 9.0

W 410 4.0 10.7

55 5.7 8.8

W 412 5.3 9.4

50 4.5 10.0

W 417 4.4 10.3

0 5.0 9.5

W 466 4.0 10.7

W 522 4.0 10.7

PX Sta 178+00 NO+00 = W112+00

Sta	+	H.I.	-	Elev.	^{2x2"} N179+00
T.B.M.	4.88	14.40		9.52	W112+00
0			5.0	9.4	
W 50			5.1	9.3	
W 100			5.9	8.5	
W 150			5.8	8.6	
W 200			5.1	9.3	
W 240			4.7	9.7	
W 250			5.8	8.6	
W 262			4.2	10.2	
W 310			5.0	9.4	
W 360			4.9	9.5	
W 410			5.5	8.9	
W 458			4.4	10.0	
W 508			4.6	9.8	

July 16, 1950

Sta 177+00 NO+00 = W112+00

Sta	+	H.I.	-	Elev.	^{2x2"} N179+00
T.B.M.	5.07	14.59		9.52	W112+00
532			5.1	9.5	
480			5.6	9.0	
430			5.3	9.3	
380			5.3	9.3	
330			5.4	9.2	
280			5.8	8.8	
230			5.6	9.0	
180			5.6	9.0	
130			5.8	8.8	
83			5.8	8.8	
33			5.1	9.5	
0			5.0	9.6	^{2x2 Hub} N175+00
P.			5.15	9.44	W112+00

PX Sta 176+00 N 0+00 = W 112+00

July 16, 1950

(69)

Sta	+	H.I.	-	Elev.	2x N 175+00
T.B.M.	5.04	14.48		9.44	W 112+00
0			5.1	9.4	
W 50			5.4	9.1	
W 100			5.9	8.6	
W 150			6.3	8.2	
W 200			6.1	8.4	
W 253			6.1	8.4	
W 305			6.1	8.4	
W 350			6.0	8.5	
W 400			5.9	8.6	
W 450			5.5	9.0	
W 500			5.1	9.4	
W					

Sta	+	H.I.	-	Elev.	2x N 175+00
T.B.M.	4.84	14.28		9.44	W 112+00
505			4.3	10.0	
385			4.4	9.9	
410			5.8	8.5	
325			5.0	9.3	
390			5.2	9.1	
340			5.6	8.7	
285			5.7	8.6	
240			5.7	8.6	
190			6.0	8.3	
140			6.0	8.3	
90			5.4	8.9	
45			5.1	9.2	
0			5.0	9.3	

PX Sta 174+00 NO+00 = W112+00

Sta 173+00 NO+00 = W112+00

PX

Sta	+	H.I	-	Elev
TBM.	4.93	14.37		9.44
0			5.2	9.2
W 50			5.2	9.2
W 70			6.2	8.2
W 85			5.2	9.2
W 133			5.7	8.7
W 190			6.3	8.1
W 240			6.2	8.2
W 293			6.2	8.2
W 340			6.1	8.3
W 390			5.9	8.5
W 440			5.7	8.7
W 490			5.6	8.8
W 540			5.5	8.9

Sta	+	H.I	-	Elev
TBM.	4.46	13.90		9.44
872			4.2	9.7
820			5.4	8.5
765			5.2	8.7
715			5.3	8.6
660			5.2	8.7
615			5.6	8.3
560			5.7	8.2
510			5.5	8.4
455			5.7	8.2
405			5.8	8.1
355			5.8	8.1
300			5.8	8.1
250			5.8	8.1
200			5.7	8.2
145			5.6	8.3
93			5.1	8.8
45			5.1	8.8
0			4.9	9.0
P			5.06	8.84

N171+00

W112+00

PX Sta 172+00 N 0+00 = W 112+00

July 16, 1950 (71)
Sta 171+00 N 0+00 = W 112+00

Sta	+	H.I.	-	Elev.	2x2 H.I. N 171+00	Sta	+	H.I.	-	Elev.	2x2 N 171+00
TBM.	4.45	13.29		8.84	W 112+00	TBM.	5.02	13.86		8.84	W 112+00
0			5.0	8.3		870			5.7	8.2	
W 50			5.0	8.3		815			5.7	8.2	
W 100			4.7	8.6		765			6.0	7.9	
W 153			5.4	7.9		710			6.1	7.8	
W 208			5.0	8.3		660			6.1	7.8	
W 255			5.2	8.1		605			6.0	7.9	
W 305			5.6	7.7		555			6.1	7.8	
W 363			5.4	7.9		505			6.2	7.7	
W 415			5.3	8.0		450			6.1	7.8	
W 465			5.5	7.8		400			6.2	7.7	
W 520			5.5	7.8		340			6.2	7.7	
W 565			5.6	7.7		293			5.6	8.3	
W 620			5.7	7.6		240			6.1	7.8	
W 670			5.2	8.1		185			6.0	7.9	
W 715			5.4	7.9		135			5.6	8.3	
W 770			4.9	8.4		85			5.5	8.4	
W 820			5.0	8.3		35			5.3	8.6	
W 865			4.8	8.5		0			5.0	8.9	

PX

Sta N170+00-0+00=W112+00

Sta	+	H.I	-	Elev.	2x2" N171+00 W112+00
T.B.M.	4.42	13.26		8.84	
0			5.2	8.1	
W 50			4.9	8.4	
W 105			5.2	8.1	
W 170			5.3	8.0	
W 240			5.5	7.8	
W 310			5.8	7.5	
W 365			5.6	7.7	
W 420			5.9	7.4	
W 470			5.8	7.5	
W 520			5.7	7.6	
W 575			5.7	7.6	
W 625			5.8	7.5	
W 675			6.0	7.3	
W 725			5.9	7.4	
W 780			5.9	7.4	
W 835			5.7	7.6	
W 885			5.6	7.7	

July 11, 1950

(72)

Sta 169+00N-0+00=W112+00

Sta	+	H.I	-	Elev	N171+00 W112+00
T.B.M.	4.28	13.12		8.84	
885			5.8	7.3	
830			6.0	7.1	
785			6.1	7.0	
730			6.2	6.9	
680			6.0	7.1	
620			6.0	7.1	
575			6.0	7.1	
520			5.8	7.3	
470			5.9	7.2	
420			5.5	7.6	
370			5.7	7.4	
320			5.4	7.7	
270			5.7	7.4	
220			5.6	7.5	
170			5.2	7.9	
120			5.4	7.7	
70			5.0	8.1	
0			5.0	8.1	

July 13, 1950

CLOSURE LEVELS

(73)

Sta	+	H.I	-	Elev	
T.B.M.	4.65	13.49		8.84	2x24 N17+00 W112+00 See P. 63
105+00			5.73	7.76	7.79

7-18-50

74

STA-185+00 N Ext

Sta 184+00

Ext

STA + H.I. - FLEV

Sta

+

H.I.

-

Elev.

0+00

MAIL TO PIA
W/8700 FILE
JERRY

Hwh

7.40 16.72

9.32

2.2

5.58

16.16

10.58

183+00 N

W 1+91

3.7

13.0

7+88

2.3

13.9

W 2+44

3.3

13.4

6+80

2.4

13.8

W 3+00

3.1

13.6

6+80

2.8

13.4

W 3+60

3.1

13.6

5+25

2.3

13.9

W 4+15

3.1

13.6

5+15

2.7

13.5

W 4+75

2.9

13.8

4+60

2.7

13.5

W 5+35

2.8

13.9

4+00

3.0

12.2

W 5+95

2.8

13.9

3+85

3.3

12.9

W 6+60

2.7

14.0

2+75

3.7

12.5

W 7+25

2.5

14.2

2+25

4.2

11.0

1+60

4.3

10.9

7-18-50

PX Sta 183+00 Ext.

Sta	HI	Elev	Hub
T.B.M.	5.20	15.78	10.58
W 2+10		4.1	11.7
W 2+60		3.8	12.0
W 3+10		3.4	12.4
W 3+60		3.3	12.5
W 4+15		3.3	12.5
W 4+75		2.8	13.0
W 5+30		2.6	13.2
W 5+80		2.8	13.0
W 6+00		3.0	12.8
W 6+05		4.2	11.6

7-18-50

(75)

PX Sta 182+00 Ext

Sta	HI	Elev	Hub
T.B.M.	4.09	14.67	10.58
5+70		1.9	12.8
5+45		1.8	12.9
5+12		3.0	11.7
5+38		2.0	12.7
4+80		2.5	12.2
4+30		2.6	12.1
4+10		3.4	11.3
3+85		2.7	12.0
3+20		2.5	12.2
2+70		2.9	11.6
2+20		2.5	12.2

PX

Sta 181+00

7-18-50

Ext

Sta	+	HI	-	Elev	Hub
TBM	4.66	15.24		10.58	183100
W 2+10			4.7	10.5	
W 2+60			4.3	10.9	
W 3+10			4.0	11.2	
W 3+60			3.7	11.4	
W 3+85			4.3	10.9	
W 4+00			4.3	10.9	
W 4+65			3.6	11.6	
W 4+69			4.6	10.6	
W 4+72			3.9	11.3	
W 5+25			3.3	11.9	
W 5+80			3.6	11.6	

PX

Sta 180+00 Ext

(96)

Sta	+	HI	-	Elev	Hub
TBM	5.87	14.89		9.52	Sta 179+00
6150			3.3	11.56	
6165			3.5	11.4	
5145			3.8	11.1	
5100			4.3	10.6	
4150			4.2	10.7	
4115			4.6	10.3	
Sta 179+00					
Sta	+	HI	-	Elev	Hub
TBM	5.18	14.60		9.52	179+00
W 5+00			4.5	10.1	
5160			4.0	10.6	
6125			3.5	11.1	

PX

Sta 178+00

7-18-50

Ext

Sta	+	HI	-	Elev	Hub
T.B.M.	4.99	14.51		9.52	Sta 179+00
w. 5+30			4.7	9.8	
w. 5+70			3.9	10.6	

PX

Sta 177+00

Ext

Sta	+	HI	-	Elev	Hub
T.B.M.	5.16	14.68		9.52	179+00
w. 5+70			4.1	10.6	
w. 6+33			4.0	10.7	

PX

Sta 176+00

Ext

Sta	+	HI	-	Elev	HUB.
T.B.M.	4.94	14.38		9.44	175+00
w. 5+85			4.4	10.0	
w. 6+45			4.1	10.3	
w. 7+35			3.4	11.0	
w. 7+47			4.5	9.9	
w. 7+70			2.9	11.5	
w. 8+30			3.1	11.3	

PX

Sta. 175+00

7-18-50

(77)

Ext

Sta	+	HI	-	Elev	Hub.
T.B.M.	4.84	14.36		9.52	176+00
6+27			4.7	9.7	
6+85			4.2	10.2	
7+60			3.4	11.0	

PX

Sta. 174+00

Ext

Sta	+	HI	-	Elev	Hub
4.98	14.50		9.52	175+00	
6+80			5.6	8.9	
7+50			4.3	10.2	

Sta 168+00

Sta	+	HI	-	Elev	Hub
T.B.M.	3.77	12.61		8.84	171+00
0+00			5.1	7.5	
0+48			5.1	7.5	
0+95			5.0	7.6	
1+50			5.0	7.6	

Sta 168+00 Cont.

Sta	H1	-	Elev
	12.61		
W 2+00		4.8	7.8
W 2+52		4.9	7.7
W 3+04		5.0	7.6
W 3+55		5.3	7.3
W 4+08		5.4	7.2
W 4+60		5.6	7.0
W 5+15		5.6	7.0
W 5+65		5.4	7.2
W 6+27		5.6	7.0
W 6+83		5.6	7.0
W 7+35		5.7	6.9
W 7+90		5.7	6.9
W 8+46		5.7	6.9
W 8+90		5.6	7.0
W 9+45		5.4	7.2
W 10+10		5.3	7.3
TR		5.54	7.07

Hub.
167+00

Sta. 167+00

Sta	H1	-	Elev	Hub.
T.B.M.	5.05	12.12	7.07	167+00
10+25		5.1	7.0	
9+75		5.2	6.9	
9+15		5.0	7.1	
8+75		5.3	6.8	
8+15		5.4	6.7	
7+65		5.4	6.7	
7+00		5.2	6.9	
6+50		5.4	6.7	
5+90		5.0	7.1	
5+35		5.2	6.9	
4+80		4.9	7.2	
4+20		5.0	7.1	
3+60		4.9	7.2	
3+00		5.0	7.1	
2+45		5.0	7.1	
1+85		4.9	7.2	
1+25		5.0	7.1	
0+75		5.1	7.0	
0+60		5.0	7.1	

(78)

Sta 166+00

Sta. 165+00

Sta	I	HI	-	Elev	Hub	Sta	I	HI	-	Elev	Hub
	4.93	12.00		7.07	167+00	TBM	3.70	10.77		7.07	167+00
0+00			5.2	6.8							
0+05			5.5	6.5		W10+15			4.3	6.5	
0+50			5.1	5.9		W9+75			4.3	6.5	
W1+00			5.5	6.5		W9+20			4.3	6.5	
W1+50			5.8	6.2		W8+75			4.3	6.5	
W2+00			5.1	6.9		W8+30			4.0	6.8	
W2+50			5.1	6.9		W7+80			3.8	7.0	
W3+10			5.2	6.8		W7+20			3.9	6.9	
W3+70			5.1	6.9		W6+80			4.0	6.8	
W4+20			5.0	7.0		W6+15			3.9	6.9	
W4+70			5.2	6.8		W5+75			3.8	7.0	
W5+25			5.1	6.9		W5+30			3.9	6.8	
W5+90			4.8	7.2		W4+75			4.2	6.6	
W6+45			5.2	6.8		W4+30			4.3	6.5	
W6+70			5.1	6.9		W4+00			4.3	6.5	
W7+50			5.2	6.8		W3+50			4.7	6.1	
W8+05			5.4	6.6		W3+00			4.6	6.2	
W8+50			5.4	6.6		W2+60			4.7	6.1	
W9+00			5.4	6.6		W2+20			4.6	6.2	
W9+60			5.4	6.6		W1+75			4.4	6.4	
W10+00			5.3	6.7		W1+30			4.9	5.9	
						W0+36			4.8	6.0	
						0+00			5.0	5.7	

PX

Sta 114+00

7-21-60

PX

Sta 113+00

(81)

0+00 = Sta 114+00 - 168+00 W B/L

0+00 = Sta 113+00 - 168+00 W B/L

Sta	+	HI	-	Elev	Hub
T.B.M.	5.08	12.67		7.59	Sta 115+00
S 5+50			7.3	5.4	
S 4+90			7.0	5.7	
S 4+35			6.7	6.0	
S 3+85			6.7	6.0	
S 3+35			6.7	6.0	
S 2+80			6.0	6.7	
S 2+30			5.8	6.9	
S 1+75			5.7	7.0	
S 1+25			5.5	7.2	
S 0+75			5.4	7.3	
0+00			5.1	7.6	
N 0+65			4.9	7.8	
N 1+10			4.9	7.8	
N 1+60			4.9	7.8	
N 2+10			4.9	7.8	

Sta	+	HI	-	Elev	Hub
T.B.M.	5.14	12.63		7.59	Sta 115+00
N 2+40			4.4	8.2	
N 1+90			4.6	8.0	
N 1+40			4.5	8.1	
N 0+75			4.8	7.8	
N 0+35			4.8	7.8	
0+00			5.1	7.5	
0+50			5.3	7.3	
1+05			5.6	7.0	
1+50			6.0	6.6	
2+10			6.1	6.5	
2+60			6.6	6.0	
3+10			6.8	5.8	
3+65			6.6	6.0	
4+15			6.6	6.0	
4+80			7.3	5.3	

7-21-50

Sta 112+00

0+00 = Sta 112+00 - 168+00 W T_{3/2}

Sta	+	H1	-	Elev	
T.B.M.	5.85	12.42		7.07	114 B. 167+00
S. 3+85		7.1		5.3	
S. 3+70		6.6		5.8	
S. 3+15		6.7		5.7	
S. 2+70		6.5		5.9	
S. 2+00		5.4		7.0	
S. 1+45		5.4		7.0	
S. 1+00		5.5		6.9	
S. 0+50		5.0		7.4	
0+00		4.9		7.5	
N. 0+60		4.6		7.8	
N. 1+00		4.4		8.0	
N. 1+50		4.1		8.3	
N. 2+00		4.4		8.0	
T.P.	4.89	7.58		115+00	Hub

7-26-50

(82)

Sta 128+00

0+00 = 128+00 W - 168+00 N

Sta	+	H1	-	Elev		Sta H _{1/2}
T.B.M.	4.59	12.35		7.76		126+00
0+00		5.1		7.2		
N. 0+43		5.0		7.3		
N. 0+25		3.2		9.1		
N. 0+37		5.4		6.9		
N. 0+78		4.6		7.7		
N. 1+58		5.3		7.0		

SEE NEXT PAGE FOR REST OF SECTION

AZIM. LOCATION OF FENCE CORNERS F.B.I.

S.W. Cor. Fence } F.B.I.
S.E. Cor. Fence }
N.W. Cor. Fence }

Sta 129+00

0+00 = 129+00 W - 168+00 N

Sta	+	H1	-	Elev		128+00 H _{1/2}
T.B.M.	4.46	11.90		7.44		
0+00		5.1		6.8		
N. 0+06		5.7		6.2		
N. 0+56		6.00		5.9		
N. 1+12		5.7		6.2		
N. 1+66		5.2		6.7		

Sta 125+00 Cont.

Sta 128+00 Cont. of

Sta	Ht	Elev
	11.90	
N 2+22	5.1	6.8
N 2+70	5.1	6.8
N 2+83	4.5	7.4
N 2+85	3.7	8.2
N 2+93	3.7	8.2
N 3+13	+ 1.1	13.0
N 3+17	17.60	
N 3+25	4.2	13.3
N 3+54	5.2	12.4
N 4+07	5.3	12.3
N 4+43	6.6	11.0
N 5+04	5.1	12.5
N 5+10	2.7	14.9
N 5+10	2.4	15.2

0+00 = PT. { N-171+00 } SECTION N.E.S. { W-128+00 }

Sta	Ht	Elev	Dist	ROD	Elev	Sta Ht
T.B.M.	4.71	12.47			7.76	126+00 Hdb
T.P.	5.83	17.60	0.70		11.77	10' N of Sta
			1.5		16.1	
			2.0		15.6	
			5.0		12.6	
			9.0		7.6	
			9.4		7.2	
			8.9		8.7	
			6.4		11.2	
			4.9		12.7	
LOCATION OF 12, 10, & 9' CONTOURS NEAR F.B.I. BLDG.						
T. at { 127+00 W } { 168+00 N }						
	AZIM.		DIST	ROD	Elev	Sta Ht
	T.B.M.	4.92	12.68		7.76	126+00
		333° 0'	152	0.68	12.0	CONTOUR
		327° 40'	139	2.68	10.0	"
		325° 15'	100	3.68	9.0	"

84

85

30

~~29+58~~

30

~~29+46~~

30

~~29+102~~

29

~~28+89~~

29

~~28+72~~

29

~~28+63~~

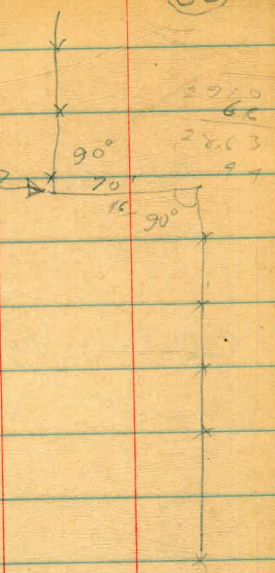
29

~~28+44~~

29

~~28+37~~

29

~~28+27~~

$$2'' \times 4'' \ 20' E \left\{ \begin{array}{l} 158+00N \\ 106+00W \end{array} \right\} EL = 4.90$$

$$2'' \times 2'' \ 20' E \left\{ \begin{array}{l} 155+00N \\ 106+00W \end{array} \right\} EL = 5.90$$

$$2'' \times 2'' \text{ ON LEVEE } \left\{ \begin{array}{l} 152+00N \\ 98+00W \end{array} \right\} EL = 9.91$$

75° 36' 30"

18¹~~8~~-185 W 200

180-174 W 500

173-169 W 900

by the
19.4 ft.
5° 10' =

slope
with the
follow-
= .0041.

pe dist-
= 14 ft.,
28 ft.

U. S. A.

18,658

126400-7.76
129400-8.15

STATE TO BOND N 82° 40' 57" W

4.91 = 128

115
7.59
115x100

109° 28' 30"

208-58

17960
10429 12.35
7531- 4.91

P.L. TO HORSE N 48° 01' 16" W
N 75° 59' 15" W

48° 01' 16"

2° 15' 31"

2° 06' 31"

48° 70' 16"

48° 01' 16"

COR. DR. 172+66.57

31.21
28.76
59.97

5.02 -
4.63 +

TH. PT. 31.21
28.76
59.97

164+004 112+00 W
163+004 116+00 W

1.2 = 630
1.4 = 590
2.4 = 520
3.7 = 470
4.2 = 415

31.21
29.52
60.78

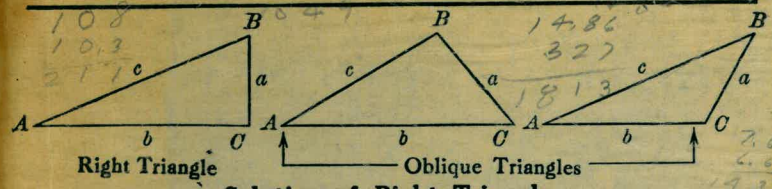
868.38

858

1688.4

1561

TRIGONOMETRIC FORMULÆ



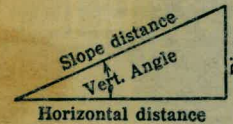
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{a}$, $\operatorname{cosec} = \frac{c}{a}$

Given	Required	Formula
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B$, $c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B$, $b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90^\circ - A$, $b = a \cot A$, $c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A$, $a = b \tan A$, $c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A$, $a = c \sin A$, $b = c \cos A$

Solution of Oblique Triangles

Given	Required	Formula
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180^\circ - C$, $\tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a + b + c}{2}$, $\sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}$, $C = 180^\circ - (A + B)$
a, b, c	Area	$s = \frac{a + b + c}{2}$, $\text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
A, b, c	Area	$\text{area} = \frac{bc \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = 5° 10'. From Table, Page IX, $\cos 5^\circ 10' = .9959$. Horizontal distance = 319.4 × .9959 = 318.09 ft.

Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\cos 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ ft.

When the rise is known, the horizontal distance is approximately: —the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.