

MISSION BAY

NO. 18

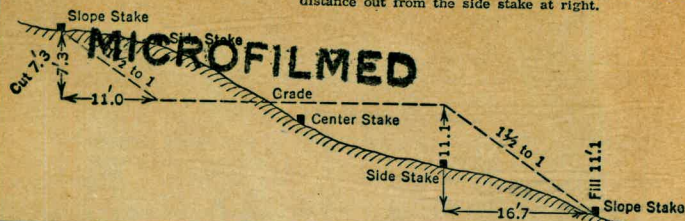
NO. 18

MISSION BAY

NO. 18

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.



14° 29' - 91-42
 14° - 20' - TEST A1-40 ETC

BOOK No. 373A

20.77

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

The paper in this book No. 373A
 is made of 50% high grade rag stock
 with a WATER RESISTING surface sizing.

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PX FINAL SOUNDINGS & X-SECTIONS 6-24-47

DANA BASIN: STA-73+00 :: 0+00=

STA-73+00 CAUSEWAY B/L LINES ARE RUN AT

81° 39' 44" TO B/L: SOUND WEST

DIST	SOUND	DIST	SOUND
0+00	4.4 -3.4	1+60	11.4 -10.4
<u>09:18</u>	5.0 -4.0	<u>09:20</u>	11.0 -10.0
(1.0)	4.8 -3.8	(1.0)	10.8 -9.8
	5.0 -4.0		10.8 -9.8
	5.1 -4.1	2+00	10.8 -9.8
50	5.8 -4.8		10.7 -9.7
	5.3 -4.3		10.1 -9.1
	5.0 -4.0		10.3 -9.3
	5.0 -4.0		10.2 -9.2
	5.7 -4.7	50	10.2 -9.2
1+00	7.8 -6.8		10.1 -9.1
	7.5 -6.5		10.1 -9.1
	7.3 -6.3		10.1 -9.1
	8.0 -7.0		10.5 -9.5
9.5 10.5	-8.5	3+00	10.4 -9.4
1+50	11.8 -10.8	3+10	10.2 -9.2

PX STA-73+00

6-24-47
BARRAGAN
SHERRY
STANLEY

Indep^o

DIST	SOUND	DIST	SOUND
3+20	10.1 -9.1		
(1.0)	10.1 -9.1		
	10.1 -9.1		
50	10.2 -9.2		
	10.1 -9.1		
	9.5 -8.5		
	9.0 -8.0		
	8.8 -7.8		
4+00	8.7 -7.7		
	9.0 -8.0		
	9.5 -8.5		
	10.0 -9.0		
	11.0 -10.0		
50	11.0 -10.0		
<u>09:25</u>	11.2 -10.2		
	11.2 -10.2		
	11.2 -10.2		
	11.3 -10.3		
5+00	11.0 -10.0		

PY STA-74+00 6-24-47
 0+00 = STA-74+00 CAUSEWAY B/L: LINES ARE RUN

AT 81° 35' 42" TO B/L: SOUND WEST

DIST SOUND DIST SOUND

0+00 14.0 -13.0 1+80 10.8 -9.8

09:30 +10 13.5 -12.5 10.5 -9.5

+20 12.4 -11.4 2+00 10.5 -9.5

09:33 11.5 -10.5 (1.0) 10.4 -9.4

(1.0) 11.8 -10.8 10.5 -9.5

50 11.5 -10.5 10.5 -9.5

11.2 -10.2 11.2 -10.2

11.2 -10.2 50 11.1 -10.1

11.0 -10.0 11.0 -10.0

10.8 -9.8 10.5 -9.5

1+00 10.8 -9.8 10.5 -9.5

10.5 -9.5 10.8 -9.8

10.5 -9.5 3+00 10.8 -9.8

09:35 10.9 -9.9 11.2 -10.2

11.5 -10.5 11.2 -10.2

50 11.5 -10.5 11.0 -10.0

11.3 -10.3 10.5 -9.5

1+70 11.2 -10.2 3+50 10.5 -9.5

PR STA-74+00 6-24-47(2)
 DIST SOUND DIST SOUND

3+60 10.0 -9.0

09:38 10.0 -9.0

(1.0) 10.0 -9.0

10.0 -9.0

4+00 10.0 -9.0

10.7 -9.7

11.0 -10.0

11.0 -10.0

11.4 -10.4

50 11.4 -10.4

11.8 -10.8

11.3 -10.3

09:40 11.0 -10.0

11.2 -10.2

5+00 11.5 -10.5

PX STA- 67+00 6-29-47
 0+00 = STA-67+00 CAUSEWAY B/L:

DIST	+ H.I.	-	ELEV
B.M.	4.95	16.2	11.30
0+00		5.2	11.0
0+70 W		5.2	11.0
1+20 W		5.0	11.2
1+90 W		5.4	10.8
2+45 W		6.4	9.8
2+80 W		9.0	7.2
3+05 W		13.5	2.7

STA- 67+ 00

0+00 = Pt. 310' W. OF STA- 67+00 CAUSEWAY B/L

AND AT 81°39'44" To B/L: SOUND WEST ALONG THIS LINE

DIST	SOUND	DIST	SOUND
0+05	0.0 +1.0	0+70	7.3 -6.3
0+10	0.5 +0.5	(1.0)	9.2 -8.2
10:12 +20	1.5 -0.5		8.5 -7.5
(1.0)	2.5 -1.5	1+00	9.0 -8.0
	3.6 -2.6		9.0 -8.0
50	4.5 -3.5		9.0 -8.0
0+60	5.7 -4.7	1+30	9.4 -8.4

(3)

PX	STA- 67+ 00	6-29-47	DIST	SOUND	DIST	SOUND
			1+40	9.5 -8.5	3+40	11.0 -10.0
			50	9.5 -8.5	50	10.0 -9.0
			(1.0)	9.5 -8.5	(1.0)	9.8 -8.8
				9.8 -8.8		10.0 -9.0
				10.3 -9.3		10.2 -9.2
				10.3 -9.3		10.3 -9.3
			2+00	11.5 -10.5	4+00	10.3 -9.3
			10:15	11.0 -10.0		10.3 -9.3
				10.0 -9.0	10:18	10.4 -9.4
				10.0 -9.0	(1.1)	11.2 -10.1
				10.0 -9.0		11.2 -10.1
			50	10.0 -9.0	50	11.2 -10.1
				10.4 -9.4		11.0 -9.9
				10.8 -9.8		10.8 -9.7
				11.0 -10.0		10.5 -9.4
				11.3 -10.3		10.3 -9.2
			3+00	11.2 -10.2	5+00	9.8 -8.7
				11.4 -10.4		10.0 -8.9
				12.3 -11.3		10.0 -8.9
			3+30	12.3 -11.3	5+30	10.0 -8.9

PX. STA - 67+00			6-24-47		
DIST	SOUND		DIST	SOUND	
5+40	10.3	-9.2			
50	10.4	-9.3			
(1.1)	10.5	-9.4			
	10.7	-9.6			
	10.3	-9.2			
	10.0	-8.9			
6+00	10.0	-8.9			
	9.7	-8.6			
	9.0	-7.9			
	8.6	-7.5			
	5.6	-4.5			
50	5.4	-4.3			
	4.0	-2.9			
	3.3	-2.2			
	1.7	-0.6			
	1.0	+0.1			
7+00	1.5	+0.6			

PX. STA - 66+00			6-24-47 (2)		
0+00 = STA - 66+00 - CAUSEWAY B/L					
DIST	H.I.		ELEV		
B.M.	4.40	15.7	11.27		TOP HUB STA-67+00
0+00			5.1	10.6	
0+43 W			4.6	11.1	
1+05 W			4.3	11.4	
1+65 W			4.8	10.9	
1+85 W			5.2	10.5	
2+10 W			6.1	9.6	
2+40 W			9.2	6.5	
2+70 W					
STA - 66+00					
0+00 = PT. - 270' W. STA - 66+00 CAUSEWAY B/L					
AT 91°39'44" To B/L SOUND WEST ALONG THIS LINE					
DIST	SOUND		DIST	SOUND	
0+05	0.0	+1.3	0+60	9.5	-8.2
0+10	1.7	-0.4	(1.3)	9.8	-8.5
10+48+20	3.2	-1.9		9.3	-8.0
(1.3)	5.4	-4.1		9.5	-8.2
	7.8	-6.5	1+00	9.5	-8.2
0+50	9.0	-7.7	1+10	9.7	-8.4

PX	STA-66+	00	(6-24-47)	DIST	SOUND
1+20	10.0	-8.7	3+20	10.7	-9.4
(1.3)	9.8	-8.5		10.5	-9.2
	10.0	-8.7		10.7	-9.4
50	10.1	-8.8	50	10.7	-9.4
<u>10:52</u>	10.1	-8.8		10.0	-8.7
	10.5	-9.2		10.2	-8.9
	9.8	-8.5		9.8	-8.5
	10.3	-9.0		9.8	-8.5
2+00	10.0	-8.7	4+00	10.0	-8.7
	9.8	-8.5		10.0	-8.7
	9.7	-8.4		9.8	-8.5
	9.7	-8.4		9.7	-8.4
	10.2	-8.9		9.5	-8.2
50	10.1	-8.9	50	9.8	-8.5
	10.3	-9.0		12.0	-10.7
	10.5	-9.2		11.7	-10.4
	10.5	-9.2		11.4	-10.1
	9.7	-8.4		12.0	-10.7
3+00	10.0	-8.7	5+00	11.7	-10.4
3+10	9.8	-8.5	5+10	11.0	-9.7

PY	STA-66+	00	(6-24-47)	DIST	SOUND
5+20	10.7	-9.4			
	10.5	-9.2			
	10.7	-9.4			
50	11.0	-9.7			
	10.8	-9.5			
	10.8	-9.5			
	10.5	-9.2			
(1.3)	10.2	-8.9			
6+00	10.2	-8.8			
(1.4)	10.0	-8.6			
	10.0	-8.6			
	10.0	-8.6			
	9.4	-8.0			
50	7.0	-5.6			
<u>10:58</u>	5.4	-4.0			
	2.6	-1.2			
	2.5	-1.1			
6+30	0.0	+1.4			
7+00	STAKE				

PX STA- 65 + 00 6-24-47

0+00 = STA- 65+00 CAUSEWAY $\frac{1}{4}$ SECTIONS ARE RUN AT

DIST	+ H.I.	- ELEV.
81°39'44" To $\frac{1}{4}$.		
B.M.	5.32	16.1
0+00		5.3 10.8
0+80 W		5.3 10.8
1+30 W		5.2 10.9
2+10 W		6.2 9.9
2+40 W		10.5 5.6
2+60 W		13.5 2.6

STA- 65 + 00

0+00 = PT. 260' W OF STA. 65+00 CAUSEWAY $\frac{1}{4}$ AND AT

81°39'44" To $\frac{1}{4}$: SOUND WEST ALONG THIS LINE

DIST	SOUND	DIST	SOUND
0+04	0.0 +1.7	0+70	10.8 -9.1
0+10	2.0 -0.3	(1.7)	10.8 -9.1
11:20	5.0 -3.3		10.6 -8.9
(1.7)	6.5 -4.8	1+00	11.0 -9.3
	8.3 -6.6		10.4 -8.7
0+50	10.0 -8.3		10.6 -8.9
0+60	10.2 -8.5	1+30	10.4 -8.7

PX, STA- 65+00 6-24-47 ③

DIST SOUND DIST SOUND

1+40	10.3 -9.2	3+40	10.8 -9.1
50	10.7 -9.0	50	10.5 -8.8
	10.2 -8.5		11.0 -9.3
(1.7)	10.0 -8.3	(1.7)	11.0 -9.3
	10.7 -9.0		10.4 -8.7
	11.0 -9.3		9.8 -8.1
2+00	10.3 -8.6	4+00	9.7 -8.0
	10.2 -8.5		9.6 -7.9
	10.2 -8.5		9.7 -8.0
	10.5 -8.8		9.8 -8.1
	10.8 -9.1		9.8 -8.1
50	10.8 -9.1	50	10.0 -8.3
	10.5 -8.8		10.0 -8.3
11:25	10.4 -8.7		12.0 -10.3
	10.4 -8.7	11:27	12.0 -10.3
	10.5 -8.8		11.1 -9.4
3+00	10.1 -8.4	5+00	11.5 -9.8
	10.5 -8.8		11.5 -9.8
	10.7 -9.0		12.0 -10.3
3+30	10.8 -9.1	5+30	11.4 -9.7

6-24-47

PX STA-65+00			DIST SOUND		
5+40	11.5	-9.8			
50	11.3	-9.6			
(1.7)	11.0	-9.3			
	10.5	-8.8			
	10.8	-9.1			
	10.8	-9.1			
6+00	10.4	-8.7			
	10.4	-8.7			
	10.0	-8.3			
(1.7)	10.0	-8.3			
(1.8)	10.0	-8.2			
50	10.3	-8.5			
	9.8	-8.0			
	9.5	-5.7			
	5.4	-3.6			
<u>11:30</u>	4.0	-2.2			
7+00	2.0	-0.2			
7+07	0.0	+1.8			
7+20	STAKE				

6-24-47

②

0+00 = STA-64+00 CAUSEWAY 7/4. SECTIONS ARE RUN AT
81°39'41" TO 7/4 S

DIST	+	H.I.	-	ELEV	TOP HUB STA-65+00
B.M.	5.28	16.1		10.81	
0+00			5.3	10.8	
0+63 W			4.6	11.5	
1+12 W			5.3	10.8	
1+70 W			4.8	11.3	
2+30 W			5.8	10.3	
2+55 W			9.5 8.5	6.6	
2+80 W			13.3	2.8	
STA-64+00					
0+00 = P ₂ 280' W. OF STA-64+00 CAUSEWAY 7/4 AND AT 81°39'41" TO 7/4 S SOUND WEST ALONG THIS LINE					
DIST	SOUND	DIST	SOUND		
0+00	0.0	+2.6	0+60	11.0	-8.4
<u>10:40</u>	1.5	+1.1	(2.6)	11.2	-8.6
(2.6)	3.7	-1.1		10.6	-8.0
	6.4	-3.8		10.8	-8.2
	9.0	-6.4	1+00	11.0	-8.4
0+50	10.5	-7.9	1+10	11.5	-8.9

PX STA - 64 + 00				PX STA - 64 + 00			
DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND
1+20	11.8 -9.2	3+20	12.4 -9.7	5+20	12.0 -9.3		
12:43	11.8 -9.2		12.5 -9.8	(2.7)	12.5 -9.8		
(2.6)	11.6 -9.0	(2.7)	11.8 -9.1		12.8 -10.1		
50	11.5 -8.9	50	11.2 -8.5	50	12.8 -10.1		
	11.4 -8.8		11.5 -8.8		13.0 -10.3		
	12.0 -9.4		11.7 -9.0		12.5 -9.8		
	12.3 -9.7		12.3 -9.6	(2.7)	12.0 -9.3		
	12.4 -9.8		12.5 -9.8	12:50	12.0 -9.3		
2+00	12.4 -9.8	4+00	12.5 -9.8	6+00	12.0 -9.2		
	12.4 -9.8		12.8 -10.1	(2.8)	12.0 -9.2		
	12.4 -9.8		12.6 -9.9		12.0 -9.2		
	12.0 -9.4		13.4 -10.7		11.4 -8.6		
	11.5 -8.9		14.0 -11.3		11.0 -8.2		
(2.6) 50	11.3 -8.7	50	13.5 -10.8	50	8.5 -5.7		
12:45	11.8 -9.2	12:48	13.2 -10.5		7.4 -4.6		
(2.7)	12.3 -9.6		13.0 -10.3		5.4 -2.6		
	12.1 -9.4		13.0 -10.3		3.7 -0.9		
	12.0 -9.3		12.4 -9.7	12:50	3.0 -0.2		
3+00	12.2 -9.5	5+00	13.0 -10.3	7+00	1.0 +1.8		
3+10	12.1 -9.4	5+10	12.4 -9.7	7+05	0.0 +2.8		
				7+10	STATE		

DX STA-63+00 6-24-17

0+00 = STA-63+00 CAUSEWAY 3/4 : SECTIONS ARE RUN

AT 81° 39' 44" TO 3/4 :

DIST	+	H. I.	-	ELEV.
B. M.	4.90	15.7		10.79
0+00			5.0	10.7
0+70 W			4.6	11.1
1+50 W			5.1	10.6
2+65 W			5.8	9.9
2+95 W			8.7	7.0
3+20 W			11.9	3.8

STA-63+00

0+00 = PT. 320' W. OF STA-63+00 CAUSEWAY 3/4

AT 81° 39' 44" TO 3/4 : SOUND WEST ALONG THIS LINE

DIST	SOUND	DIST	SOUND
0+02	0.0 +3.1	0+70	10.5 -7.4
B. M. +10	2.3 +0.8	(3.1)	12.0 -8.9
(3.1)	3.3 -0.2		12.0 -8.9
	4.5 -1.4	1+00	12.5 -9.4
	6.0 -2.9		12.8 -9.7
50	6.8 -3.7		12.8 -9.7
0+60	9.5 -6.4	1+30	13.4 -10.3

PX STA-63+00 6-24-17

DIST SOUND DIST SOUND

1+40	13.4 -10.3	3+40	12.0 -8.8
50	12.7 -9.6	50	11.8 -8.6
(3.1)	12.7 -9.6	(3.2)	11.8 -8.6
	12.4 -9.3		12.5 -9.3
	12.1 -9.0		13.2 -10.0
	12.2 -9.1		13.0 -9.8
2+00	12.0 -8.9	4+00	13.0 -9.8
(3.1)	12.2 -9.1		12.8 -9.6
13:20	12.0 -8.9	13:22	13.0 -9.8
(3.2)	12.0 -8.8		13.0 -9.8
	12.0 -8.8		12.7 -9.5
50	12.0 -8.8	50	12.7 -9.5
	12.0 -8.8		12.5 -9.3
	11.8 -8.6		12.0 -8.8
	11.5 -8.3		12.0 -8.8
	11.4 -8.2		12.3 -9.1
3+00	11.1 -7.9	5+00	12.3 -9.1
	11.5 -8.3		12.4 -9.2
	11.8 -8.6		12.5 -9.3
3+30	12.0 -8.8	5+30	12.8 -9.6

6-24-47

PX STA - 63+00		
DIST	SOUND	
5+40	12.5	-9.3
50	12.5	-9.3
(3.2)	12.0	-8.8
	11.7	-8.5
	9.0	-5.8
13:31	7.8	-4.6
6+00	6.8	-3.6
	5.5	-2.3
	2.4	+0.8
	0.8	+2.4
6+37	0.0	+3.2
6+40	STAKE	

6-24-47 (10)

STA-62+00 CAUSEWAY 3/4 : SECTIONS ARE RUN AT 81°35'44" To 3/4.

DIST	+	H. I.	-	ELEV.	TOP HUB
B.M.	4.90	15.6		10.71	STA-63+00
6+00			5.0	10.6	
6+75 W			4.4	11.2	
1+50 W			5.0	10.6	
2+15 W			4.8	10.8	
2+80 W			5.0	10.6	
3+63 W			5.7	9.9	
4+00 W			9.1	6.5	
4+10 W			11.0	4.6	

STA-62+00

6+00 = PT. 416' W. OF STA 62+00 CAUSEWAY 3/4 AND AT 81°35'44" To 3/4 SOUND WEST ALONG THIS LINE.

DIST	SOUND			DIST	SOUND	
0+05	0.0	+3.5		0+50	6.0	-2.5
0+10	0.5	+3.0		(3.5)	6.5	-3.0
13:40	3.0	+0.5			7.0	-3.5
(3.5)	4.9	-1.4			7.8	-4.3
0+40	5.1	-1.6		0+90	9.5	-6.0

PX	STA-62+00		6-24-57	PX	STA-61+00	6-24-57	
DIST	SOUND	DIST	SOUND	CAUSEWAY	SECTIONS	ARE RUN	
1+00	10.6 -7.1	3+00	11.6 -8.1	AT 91° 35' 49" To 7/4:			
(3.5)	10.3 -6.8	(3.5)	12.0 -8.5	DIST + H.I. -	ELEV.		
	11.0 -7.5		12.4 -8.9	5.05 4.90	15.5	10.60	TOP HUB STA-62+00
	12.8 -9.3		12.8 -9.3	2+00W		4.9	10.6
	13.5 -10.0		13.0 -9.5	2+68W		4.4	11.1
50	13.5 -10.0	50	13.0 -9.5	2+60W		4.5	11.0
<u>13:50</u>	13.0 -9.5		13.0 -9.5	2+32W		4.8	10.7
	12.2 -8.7		13.0 -9.5	3+30W		4.9	10.6
	12.8 -9.3	<u>13:53</u>	13.0 -9.5	4+00W		5.1	10.4
	13.3 -9.8		12.0 -8.5	4+30W		5.3	10.2
2+00	13.3 -9.8	4+00	9.4 -5.9	5+50W		7.2	8.3
	13.0 -9.5		8.0 -4.5	6+10W		9.1	6.4
	13.4 -9.9		8.2 -4.7	6+20W		10.4	5.1
	13.5 -10.0		8.5 -5.0	7+50W		8.6	6.9
	13.8 -10.3		6.5 -3.0	8+10W		6.5	9.0
50	13.5 -10.0	50	5.4 -1.9	9+10W		5.4	10.1
	13.3 -9.8		4.3 -1.8	9+70W		5.5	10.0
	13.0 -9.5		3.0 +0.5				
	11.5 -8.0		1.2 +2.3				
2+90	11.5 -8.0	4+88	0.0				
		5+00	STAKE				

PX

STA-68+00

6-24-47

PX

STA-69+00

6-24-47

(12)

0+00 = STA-68+00 CAUSEWAY B/L: SECTIONS ARE RUN AT

0+00 = STA-69+00 CAUSEWAY B/L: SECTIONS ARE

81°39'44" To B/L.

RUN AT 81°39'44" To B/L:

DIST + H.I. - ELEV

DIST + H.I. - ELEV

B.M. 5.08 16.4 11.30

TOP HUB
68+00
STA-68+00

B.M. 5.06 16.3 11.22

TOP HUB

STA-69+00

3+87 W 12.0 4.4

0+00 5.0 11.3

3+55 W 8.0 8.4

3+58 W 5.3 11.0

3+30 W 6.3 9.1

1+40 W 4.6 11.7

2+40 W 5.1 11.3

2+50 W 4.9 11.4

1+55 W 5.0 11.4

3+55 W 6.3 10.0

0+65 W 5.3 11.1

4+30 W 6.3 10.0

0+00 5.1 11.3

4+73 W (11.8) 4.5

21-030

PX STA- 70+ 00 6-24-47

0+00 = STA-70+00 CAUSEWAY B/H: SECTIONS ARE RUN AT

81° 33' 44" To B/H:

DIST	+	H.I.	-	ELEV.	TOP HUB STA-70+00
B.M.	5.30	16.5		11.16	
4+55 W			13.8	2.7	
4+12 W			6.8	9.7	
3+20 W			5.3	11.2	
1+65 W			4.2	12.3	
0+70 W			5.4	11.1	
0+00			5.3	11.2	

PX STA- 71+ 00 6-24-47 (13)

0+00 = STA-71+00 CAUSEWAY B/H: SECTIONS ARE RUN

AT 81° 39' 40" To B/H:

DIST	+	H.I.	-	ELEV.	TOP HUB STA-71+00
B.M.	5.21	16.3		11.13	
0+00			5.2	11.1	
1+05 W			5.5	10.8	
2+00 W			5.6	10.7	
3+72 W			6.2	10.1	
4+35 W			11.5	4.8	

PX STA- 72+ 00
 0+00 = STA- 72+00 CAUSEWAY B/L: LINES ARE

6-24-47
 BARRAGAN
 SMITH
 STANLEY

PX STA- 70+ 00
 0+00 = STA- 70+00 CAUSEWAY B/L:

6-24-47
 BARRAGAN
 SMITH
 STANLEY (14)

RUN AT 81° 30' 44" To B/L.

SECTIONS ARE RUN AT 81° 30' 44" To B/L.

DIST	+	H.I.	-	ELEV	TOP HUB
B.M.	5.06	16.7		11.68	STA-72+00
1+70 W			12.1	4.6	
1+35 W			8.7	8.0	
1+00 W			6.3	10.4	
0+45 W			5.8	10.9	
0+00			5.1	11.6	

DIST	+	H.I.	-	ELEV.	TOP HUB
B.M.	5.20	16.33		11.13	STA-70+00 B/L
0+00			5.2	11.1	
1+20			5.2	11.1	
3+22			5.8	10.5	
7+85			6.4	9.9	
9+12			6.8	9.5	
14+32			9.5	6.8	
14+70			14.7	1.6	

PX STA 69+00

0+00 = STA - 69+00 CAUSEWAY B/L: SECTIONS ARE RUN

AT 81°39'44" To B/L:

DIST	+	H.I.	-	ELEV
B.M.	5.05	16.27		11.22
W 4+80		16.3	14.2	2.1
W 4+61			10.8	5.5
W 4+42			7.4	8.9
W 4+10			6.3	10.0
W 3+55			6.2	10.1
W 1+30			5.2	11.1
W 0+70			5.2	11.1
0+00			5.0	11.3

0+00 = 480' W. STA - 69+00 : SOUND WEST

DIST	SOUND		DIST	SOUND	
0+04	0.0	+1.4	1+40	8.6	-7.2
			1+50	8.6	-7.2
			1+60	9.0	-7.6
			1+70	9.0	-7.6
0+10	1.0	+0.4			
11:06 20	2.5	-1.1			
30	3.2	-1.8	1+80	8.8	-7.4
40	4.6	-3.2			
1.4 50	6.5	-5.1	1+90	9.0	-7.6
60	8.0	-6.6			
70	8.4	-7.0	2+00	9.3	-7.9
80	9.0	-7.6			
90	9.0	-7.6			
100	9.0	-7.6			
110	8.5	-7.1			
120	8.6	-7.2			
130	9.0	-7.6			

PX STA - 68+00

0+00 = STA - 68+00 CAUSEWAY B/L: SECTIONS ARE

RUN AT 81°39'44" To B/L

DIST	+	H.I.	-	ELEV
B.M.	5.09	16.31		11.22
0+00			5.1	11.2
W 0+48			5.3	11.0
W 1+05			5.0	11.3
W 2+85			6.0	10.3
W 3+16			6.2	10.1
W 3+40			7.0	9.3
W 3+65			9.7	6.6
W 4+10			14.8	1.5

(15)

Px, STA - 67 + 00

0+00 = STA - 67+00 = CAUSEWAY B/L. SECTIONS ARE

RUN AT 81° 39' 44" TO B/L:

DIST. + H.I. - ELEV.

B.M. +5.19 16.46 11.27

W 3+12 14.4
13.4 2.1

W 2+88 11.2 5.3

W 2+50 6.8 9.7

W 2+10 6.0 10.5

W 0+95 5.4 11.1

W 0+45 5.5 11.0

0+00 5.2 11.3

6+21

Px, STA - 66 + 00

0+00 = STA - 66+00 CAUSEWAY B/L. SECTIONS ARE

RUN AT 81° 39' 44" TO B/L:

DIST. + H.I. - ELEV.

B.M. 4.21 15.48 11.27

TOP HUB

STA - 67+00

W 3+00 5.0 10.5

W 2+50 4.4 11.1

W 2+10 4.8 10.7

W 1+90 5.0 10.5

W 1+15 5.4 10.1

W 2+40 9.1 6.4

W 2+70 13.2 2.3

6-21-97

(16)

PX STA-65+00 6-26-47
 0+00 = STA-65+00 CAUSEWAY B/L: SECTIONS ARE

RUN AT 81° 39' 44" TO B/L:

DIST	+	H.I.	-	ELEV	TOP H.
	5.21	16.02		10.81	STA-65+
E 2+60			13.9	2.1	
2+40			10.5	5.5	
2+15			6.5	9.5	
1+95			5.8	10.2	
1+75			5.7	10.3	
1+10			5.8	10.2	
0+85			5.4	10.6	
0+45			5.0	11.0	
0+00			5.2	10.8	

PX STA-64+00 6-26-47 (17)
 0+00 = STA-64+00 CAUSEWAY B/L: SECTIONS

ARE RUN AT 81° 39' 44" TO B/L:

DIST	+	H.I.	-	ELEV	TOP H.
B.M.	5.15	16.0 15.96		10.81	STA-65+00
0+00			5.1	10.9	
0+45			4.4	11.6	
0+88			4.8	11.2	
1+35			5.0	11.0	
1+98			5.3	10.7	
2+10			5.7	10.3	
2+35			6.2	9.8	
2+55			10.1	5.9	
2+84			14.0	2.0	

PX

STA-63+00

6-26-47

PX-103
STA-67+00

STA-67+00 PX

6-26-47

(18)

0+00 = STA-63+00 CAUSEWAY $\frac{3}{4}$ SECTION 2+00 = A-RANGE LINE 1250' W. OF STA-67+00 CAUSEWAYARE RUN AT $81^{\circ} 39' 42''$ TO $\frac{3}{4}$. $\frac{3}{4}$ LINES ARE RUN AT 90° TO $\frac{3}{4}$.

DIST	+	H.I.	-	ELEV	DIST	SOUND	DIST	SOUND		
B.M.	5.00	15.71		10.71	0+30	0.0	+1.8	2+10	8.9	-7.0
W 2+05			5.1	10.6	2+40	0.7	+1.1	12:12	8.5	-6.6
W 1+80			5.1	10.6	50	0.5	+1.2	(1.9)	11.6	-9.7
W 1+30			4.8	10.9	60	1.3	+0.5		11.5	-9.6
W 0+90			4.4	11.3	70	3.7	-1.9	50	12.0	-10.1
W 0+70			4.5	11.2	80	5.8	-4.0		12.0	-10.1
					90	5.0	-2.1		12.4	-10.5
					1+00	6.5	-4.6		13.0	-11.1
					(1.9)	6.0	-4.1		13.6	-11.7
						6.5	-4.6	3+00	13.5	-11.6
						8.1	-6.2		14.3	-12.4
						8.4	-6.5		14.3	-12.4
					50	8.2	-6.3	12:15	14.3	-12.4
						10.4	-8.5		14.4	-12.5
						10.2	-8.3	50	14.5	-12.6
						10.0	-8.1		14.3	-12.4
						9.0	-7.1		14.3	-12.4
					2+00	8.0	-6.1	3+80	14.0	-12.1

STA-66+00 PROJECT # 7
 0+00 = A RANGE LINE 1510' W. OF STA-66+00

STA-102+00 PROJECT # 8
 0+00 = RANGE LINE 100+00: LINES ARE RUN AT

LINES ARE RUN AT 90° TO P/H. SOUND WEST

LINES ARE RUN AT 90° TO P/H. SOUND WEST

DIST SOUND DIST SOUND

PROJECT # 8 DIST SOUND DIST SOUND

0+27	0.0	+2.1	2+10	10.5	-8.0
0+40	0.5	+1.6	(2.1)	10.4	-8.5
50	1.5	+0.6	10.8	10.0	-8.7
<u>12:30</u>	3.4	-1.3		11.0	-8.9
(2.1)	3.5	-1.4	50	12.0	-9.9
	3.8	-1.7		12.5	-10.4
	4.3	-2.2		12.5	-10.0
17 00	4.3	-2.2	<u>12:33</u>	12.2	-10.1
	6.4	-4.3		12.0	-9.9
	7.4	-5.3	3+00	12.0	-9.9
	8.2	-6.1		12.0	-9.9
	8.2	-6.1		12.0	-9.9
50	8.7	-6.6		12.0	-9.9
	10.2	-8.1		12.0	-9.9
	10.0	-7.9	50	11.8	-9.7
	9.0	-6.9		11.8	-9.7
	9.7	-7.6		12.0	-9.9
2+00	11.0	-8.9	3+80	12.2	-10.1

0+76	0.0	+2.9	2+50	8.8	-5.9
0+90	2.0	+0.9	(2.9)	9.7	-6.8
1+00	2.5	+0.4		10.5	-7.6
1+10	3.2	-0.3		10.5	-7.6
(2.9)	3.7	-0.8		10.5	-7.6
	4.1	-1.2	3+00	10.0	-7.1
	5.0	-2.1	<u>12:40</u>	10.0	-7.1
50	5.2	-2.3	(3.0)	10.0	-7.0
	5.4	-2.5		10.0	-7.0
	6.0	-3.1		10.0	-7.0
12:45	6.2	-3.3	50	9.8	-6.8
	6.9	-4.0		9.8	-6.8
2+00	7.8	-4.9		9.8	-6.8
	7.5	-4.6		9.9	-6.9
	7.4	-4.5		9.8	-6.8
	7.4	-4.5	4+00	10.2	-7.2
2+40	8.0	-5.1	4+10	10.7	-7.6

PX STA-102+00 6-26-47

DIST	SOUND	DIST	SOUND
4+20	10.5 -7.5	6+20	11.0 -8.0
<u>13:50</u>	10.6 -7.6		11.2 -8.2
(3.0)	10.6 -7.6	<u>13:55</u>	11.1 -8.1
50	10.7 -7.7	50	11.1 -8.1
	10.7 -7.7	(3.0)	11.5 -8.5
	10.6 -7.6		11.6 -8.6
	10.6 -7.6		11.7 -8.7
	10.8 -7.8		11.4 -8.4
5+00	10.7 -7.7	7+00	11.0 -8.0
	10.6 -7.6		10.4 -7.4
	10.5 -7.5		10.0 -7.0
<u>13:53</u>	10.4 -7.4		10.0 -7.0
	10.2 -7.2		10.0 -7.0
50	10.2 -7.2	50	10.0 -7.0
	10.2 -7.2		10.0 -7.0
	10.4 -7.4		10.0
	10.4 -7.4	x	10.0
	10.8 -7.8		10.0
6+00	10.9 -7.9	8+00	10.0
6+10	10.9 -7.9	8+10	10.0 -7.0

PX STA-102+00 6-26-47 (20)

DIST	SOUND	DIST	SOUND
8+20	10.0 -7.0	10+20	10.8 -7.7
(3.0)	10.1 -7.1	(3.1)	10.8 -7.7
	10.2 -7.2		10.9 -7.8
50	10.2 -7.2	50	10.9 -7.9
	10.7 -7.7		10.4 -7.3
	10.6 -7.6	<u>14:03</u>	10.3 -7.2
(3.0)	10.5 -7.5		10.6 -7.5
	10.3 -7.2		10.8 -7.7
9+00	10.3 -7.2	11+00	10.8 -7.7
	10.6 -7.6		10.5 -7.4
<u>14:00</u>	10.8 -7.7		10.5 -7.4
(3.1)	10.7 -7.6		10.7 -7.6
	10.5 -7.4		10.2 -7.1
	10.5 -7.4		10.0 -6.9
50	10.5 -7.4	50	10.0 -6.9
	10.5 -7.4	<u>14:05</u>	9.6 -6.5
	10.4 -7.3		9.8 -6.7
	10.4 -7.3		10.0 -6.9
	10.3 -7.2	(3.1)	10.0 -6.9
10+00	10.4 -7.3	12+00	10.0 -6.9
10+10	10.5 -7.4	12+10	10.3 -7.2

PX		STA-102+00		SOUNDINGS PROJECT # 7-1-47	
DIST	SOUND	DIST	SOUND		
12+20	10.2 -7.1	14+20	11.1 -7.9		
(3.1)	10.2 -7.1	(3.2)	11.1 -7.9		
	10.4 -7.3		11.1 -7.9		
50	10.4 -7.3	50	11.1 -7.9		
	10.2 -7.1		11.3 -8.1		
	10.2 -7.1	<u>14+10</u>	11.5 -8.3		
	10.0 -6.9		11.6 -8.4		
	10.1 -7.0		11.8 -8.6		
13+00	10.2 -7.1	15+00	11.5 -8.3		
	10.0 -6.9		11.5 -8.3		
	10.8 -7.7		11.3 -8.1		
	10.5 -7.4		11.0 -7.8		
	10.5 -7.4		10.8 -7.6		
50	3.0 +0.1	50	10.8 -7.6		
(3.1)	3.0 +0.1		11.0 -7.8		
(3.2)	3.0 +0.2				
	3.5 -0.3				
	7.5 -4.3				
14+00	10.0 -6.8				
14+10	11.1 -7.9				

PX		STA-103+00		SOUNDINGS PROJECT # 7-1-47	
DIST	SOUND	DIST	SOUND		
Causeway B/L & LINES ARE					
Run At $81^{\circ}39'44''$ To B/L: SOUND WEST					
DIST	SOUND	DIST	SOUND		
0+00	2.5 +1.1	1+70	5.5 -1.9		
0+10	2.0 +1.6	<u>2+35</u>	5.8 -2.2		
<u>2+30</u>	2.4 +1.2	(3.6)	6.8 -3.2		
(3.9)	2.4 +1.2	2+00	6.8 -3.2		
	2.1 +1.5		7.5 -3.9		
50	1.9 +1.7		7.2 -3.6		
	2.0 +1.6		7.2 -3.4		
	1.8 +1.8		8.7 -5.1		
	1.6 +2.0	50	7.7 -4.1		
	2.1 +1.5		8.0 -4.4		
1+00	3.0 +0.6		7.5 -3.9		
	3.4 +0.2		8.7 -5.1		
	3.4 +0.2		8.7 -5.1		
	3.0 +0.6	3+00	9.0 -5.4		
	3.6 0.0		8.0 -4.4		
50	4.7 -1.1		7.5 -3.9		
1+60	5.5 -1.9	3+30	9.5 -5.9		

PX STA -103+00 7-1-47
 DIST SOUND DIST SOUND
 3+40 9.5 -5.9 5+40 12.3 -8.7
 50 11.9 -8.3 50 12.4 -8.8
 (3.6) 12.4 -8.8 12.4 -8.8
 12.0 -8.4 (3.6) 12.5 -8.9
 11.8 -8.2 12.5 -8.9
 11.5 -7.9 12.6 -9.0
 4+00 11.5 -7.9 6+00 12.7 -9.1
 12.0 -8.4 12.5 -8.9
 12.0 -8.4 12.5 -8.9
 12.0 -8.4 12.5 -8.9
 12.3 -8.7 12.5 -8.9
 50 12.5 -8.9 50 12.4 -8.9
 09:40 12.3 -8.7 09:43 12.5 -8.9
 12.0 -8.4 12.0 -8.4
 11.7 -8.1 11.5 -7.9
 11.6 -8.0 11.5 -7.9
 5+00 11.8 -8.2 7+00 11.3 -7.7
 11.8 -8.2 11.3 -7.7
 12.2 -8.6 11.2 -7.7
 5+30 12.3 -8.7 7+30 11.1 -7.5

PX STA -103+00 7-1-47
 DIST SOUND DIST SOUND
 7+40 12.0 -8.4 9+40 10.5 -6.9
 50 12.0 -8.4 50 10.3 -6.7
 (3.6) 12.7 -9.1 09:47 11.0 -7.4
 13.0 -9.4 (3.6) 10.0 -6.4
 13.2 -9.6 8.7 -5.1
 13.1 -9.5 7.6 -4.0
 8+00 12.4 -8.8 10+00 7.7 -4.1
 11.5 -7.9 8.7 -5.1
 13.4 -9.8 8.0 -4.4
 13.0 -9.4 7.4 -3.8
 12.8 -9.2 7.0 -3.4
 50 12.4 -8.6 50 6.7 -3.1
 12.0 -8.4 6.7 -3.1
 11.4 -7.8 6.8 -3.2
 11.0 -7.4 7.0 -3.4
 11.4 -7.8 7.0 -3.4
 9+00 11.0 -7.4 11+00 7.5 -3.9
 11.2 -7.6 09:50 7.3 -3.7
 11.0 -7.4 7.0 -3.4
 9+30 11.0 -7.4 11+30 6.5 -2.9

PX		STA - 104+00		7-1-47	
DIST	SOUND	DIST	SOUND	DIST	SOUND
3+40	12.0 -8.4	5+40	12.2 -8.6		
50	12.0 -8.4	50	12.2 -8.6		
(3.6)	12.2 -8.6	(3.6)	12.1 -8.5		
	12.0 -8.4		12.5 -8.9		
	12.0 -8.4		12.5 -8.9		
	12.0 -8.4		12.5 -8.9		
4+00	12.4 -8.8	6+00	12.5 -8.9		
	12.2 -8.6		12.4 -8.8		
	12.3 -8.7		12.2 -8.6		
	12.5 -8.9		12.2 -8.6		
<u>10:40.</u>	12.5 -8.9		11.8 -8.3		
50	12.3 -8.7	50	11.7 -8.1		
	12.3 -8.7	<u>10:43</u>	11.6 -8.0		
	12.4 -8.8		11.6 -8.0		
	12.5 -8.9		11.6 -8.0		
	12.9 -9.3		11.5 -7.9		
5+00	12.9 -9.3	7+00	11.4 -7.8		
	12.7 -9.1		11.4 -7.8		
	12.5 -8.9		11.2 -7.6		
5+30	12.3 -8.7	7+30	11.4 -7.8		

PX		STA - 104+00		7-1-47	
DIST	SOUND	DIST	SOUND	DIST	SOUND
7+40	12.2 -8.6	9+40	11.5 -7.9		
50	12.0 -8.4	50	11.6 -8.0		
(3.6)	12.0 -8.4	<u>10:48</u>	11.8 -8.2		
	11.8 -8.1	(3.6)	12.0 -8.4		
	11.7 -8.1		11.7 -8.1		
	11.5 -7.9		12.0 -8.4		
	12.5 -7.9		12.0 -8.4		
8+30	11.5 -7.9	10+30	12.0 -8.4		
	11.5 -7.9		12.2 -8.6		
	11.4 -7.8		12.0 -8.4		
	11.4 -7.8		12.3 -8.7		
	11.2 -7.6		12.1 -8.5		
50	11.2 -7.6	50	13.1 -8.5		
	11.2 -7.6		13.0 -9.4		
	11.3 -7.6		13.3 -9.7		
	11.3 -7.7		13.2 -9.6		
	11.4 -7.8		13.0 -9.4		
9+00	11.2 -7.6	11+00	12.2 -9.6		
	11.4 -7.8		13.2 -9.6		
	11.3 -7.7		13.0 -9.4		
9+30	11.3 -7.7	11+30	13.6 -9.9		

PX		STA- 104+00	7-1-47		
DIST	SOUND	DIST	SOUND		
11+40	13.5 -9.9	13+40	13.7 -10.1		
50	13.5 -9.9	50	13.6 -10.0		
(3.6)	13.6 -10.0	(3.6)	13.0 -9.4		
	13.5 -9.9		13.2 -9.6		
	13.5 -9.9		13.2 -9.6		
	13.6 -10.0		13.2 -9.6		
12+00	13.2 13.7 -10.1	14+00	13.0 -9.4		
	13.0 -9.4		13.0 -9.4		
	13.3 -9.7		13.0 -9.4		
	13.6 -10.0		12.8 -9.1		
	13.6 -10.0		12.5 -8.9		
50	13.5 -9.9	50	12.5 -8.9		
	13.5 -9.9		12.6 -9.0		
	13.6 -10.0	<u>10:55</u>	12.6 -9.0		
	13.5 -9.9		12.2 -8.6		
	13.5 -9.9		12.1 -8.5		
13+00	13.4 -9.8	15+00	12.5 -8.9		
<u>10:53</u>	13.2 -9.6		13.2 -9.6		
	13.2 -9.6		14.0 -10.6		
13+30	13.0 -9.4	15+30	14.2 -10.6		

PX		STA- 104+00	7-1-47		
DIST	SOUND	DIST	SOUND		
15+40	14.0 -10.4	17+40	12.0 -8.4		
50	13.0 -9.4	50	12.0 -8.4		
(3.6)	12.6 -9.0	(3.6)	12.0 -8.4		
	12.5 -8.9		12.0 -8.4		
	12.5 -8.9		12.0 -8.4		
	12.4 -8.8		12.0 -8.4		
16+00	12.2 -8.6	18+00	12.1 -8.5		
	12.0 -8.4		12.1 -8.5		
	11.7 -8.1	<u>11:00</u>	12.0 -8.4		
	11.7 -8.1	(3.5)	12.0 -8.5		
	11.7 -8.1		12.2 -8.7		
50	11.8 -8.2	50	12.2 -8.7		
	12.4 -8.8		12.2 -8.7		
	12.1 -8.5		11.4 -7.9		
	12.1 -8.5		11.0 -7.5		
	12.3 -8.7		8.6 -5.1		
17+00	12.0 -8.4	19+00	3.0 +0.5		
	12.4 -8.8		1.0 +2.5		
	12.4 -8.8				
17+30	12.0 -8.4	19+30			

PX

STA - 105+00

7-1-47

0+00 = STA - 105+00 CAUSEWAY 3/4: LINGS AVE

RUN AT 81° 39' 44" TO 3/4: SOUND WEST

DIST SOUND DIST SOUND

0+00 10.3 -7.2 1+80 12.3 -9.2

+10 13.0 -9.9 12.3 -9.2

12:22 +20 13.6 -10.5 2+00 12.3 -9.2

(3.1) 13.0 -9.9 (3.1) 12.6 -9.5

13.7 -10.6 12.7 -9.6

50 13.0 -9.9 12.7 -9.6

14.7 -11.2 12.6 -9.5

12:25 12.7 -9.6 50 12.5 -9.4

12.6 -9.5 12.5 -9.4

12.6 -9.5 12:28 12.5 -9.4

1+00 12.6 -9.5 12.7 -9.6

12.6 -9.5 12.6 -9.5

12.5 -9.4 3+00 12.7 -9.6

12.5 -9.4 12.5 -9.4

12.5 -9.4 12.5 -9.4

50 12.5 -9.4 12.4 -9.3

12.6 -9.5 12.3 -9.2

1+70 12.7 -9.6 3+50 12.4 -9.3

PX

STA - 105+00

7-1-47

DIST SOUND DIST SOUND

3+60 12.3 -9.2 5+60 12.4

(3.1) 12.2 -9.1 (3.1) 12.5 -9.4

12:30 12.7 -9.6 12:33 12.4 -9.3

12.6 -9.5 12.3 -9.2

4+00 13.1 -10.0 6+00 12.3 -9.2

13.3 -10.2 12.3 -9.2

13.1 -10.0 12.2 -9.1

13.1 -10.0 12.2 -9.1

13.2 -10.1 12.2 -9.1

50 13.0 -9.9 50 12.3 -9.2

13.0 -9.9 12.3 -9.2

13.0 -9.9 12:35 12.2 -9.1

13.2 -10.1 12.2 -9.1

13.0 -9.9 12.0 -8.9

5+00 12.7 -9.6 7+00 12.0 -8.9

12.5 -9.4 12.2 -9.1

12.2 -9.1 12.3 -9.2

12.2 -9.1 12.6 -9.5

12.2 -9.1 12.7 -9.6

5+50 12.3 -9.2 7+50 12.8 -9.7

(26)

PX		STA - 105+00		7-1-47	
DIST	SOUND	DIST	SOUND	DIST	SOUND
7+60	12.9 -9.8	9+60	12.3 -9.2		
(3.1)	12.6 -9.5	(3.1)	12.0 -8.9		
	12.7 -9.6		12.0 -8.9		
	12.6 -9.5		12.0 -8.9		
8+00	12.0 -8.9	10+00	11.7 -8.6		
	11.7 -8.6		11.7 -8.6		
<u>12:38</u>	11.7 -8.6		11.8 -8.7		
	11.8 -8.7	<u>12:43</u>	11.8 -8.7		
	11.6 -8.5		11.6 -8.5		
50	11.6 -8.5	50	11.5 -8.4		
	11.7 -8.6		11.6 -8.5		
	11.7 -8.6		12.4 -9.3		
	11.7 -8.6		12.5 -9.4		
	11.6 -8.5		12.5 -9.4		
9+00	11.5 -8.4	11+00	12.5 -9.4		
	11.7 -8.6	<u>12:45</u>	12.5 -9.4		
<u>12:40</u>	11.7 -8.6		12.5 -9.4		
	12.4 -9.3		12.3 -9.2		
	12.3 -9.2		12.3 -9.2		
9+50	12.3 -9.2	11+50	12.3 -9.2		

PX		STA - 105+00		7-1-47	
DIST	SOUND	DIST	SOUND	DIST	SOUND
11+60	12.3 -9.2	13+60	12.5 -9.5		
(3.1)	12.3 -9.2	(3.0)	12.5 -9.5		
	12.2 -9.1		12.5 -9.5		
	12.4 -9.3		12.5 -9.5		
12+00	12.3 -9.2	14+00	12.6 -9.6		
	12.4 -9.3		12.5 -9.5		
	12.5 -9.4		12.3 -9.3		
	12.5 -9.4		12.2 -9.2		
	12.2 -9.1	<u>12:53</u>	12.0 -9.0		
50	12.4 -9.3	50	12.1 -9.1		
	12.3 -9.2		12.1 -9.1		
	12.2 -9.1		12.4 -9.3		
	12.1 -9.0		12.3 -9.3		
(3.1)	12.0 -8.9		12.3 -9.3		
13+00	12.0 -8.9	15+00	12.3 -9.3		
<u>12:50</u>	11.8 -8.7		12.4 -9.4		
(3.0)	11.8 -8.8		12.5 -9.5		
	12.3 -9.3		13.2 -10.2		
	12.3 -9.3		13.4 -10.4		
13+50	12.5 -9.5	15+50	13.0 -10.0		

<i>PA</i>	STA		105+00	7-1-47		
DIST	SOUND		DIST	SOUND		
15+60	12.1	-9.1	17+60	3.3	-0.3	
12:55	11.8	-8.8	17+70	2.0	+1.0	
(3.0)	12.2	-9.2	13:00			
	12.5	-9.5	(3.0)			
16+00	12.5	-9.5				
	12.7	-9.7				
	12.5	-9.5				
	12.4	-9.4				
	12.4	-9.4				
50	12.3	-9.3				
	12.3	-9.3				
	12.0	-9.6				
12:58	11.9	-8.9				
	11.5	-8.5				
17+00	11.2	-8.2				
	11.2	-8.2				
	11.2	-8.2				
	10.6	-7.0				
	8.0	-5.0				
17+50	8.0	-5.0				

CHECK SOUNDINGS				SLOPES		7-1-47
PROJECT # 8						(29)
STAGE # 21				SOUND NORTH		<i>PA</i>
DIST	SOUND	DIST	SOUND	DIST	SOUND	
14+48	0.0	+3.0	2+20	11.4	-8.4	<i>Indep</i>
15+60	2.5	+0.5		11.5	-8.5	
	5.8	-2.8		11.7	-8.7	
(3.0)	3.0	-5.0	50	11.7	-8.7	
	8.7	-5.7	(3.0)	11.7	-8.7	
15+60	3.4	-6.4	13:20	11.9	-8.9	
	3.8	-6.8	(2.9)	11.7	-7.8	
	11.1	-8.1		12.1	-8.2	
	12.5	-9.5	3+00	12.1	-8.2	
	13.4	-10.4		12.4	-8.5	
50	13.3	-10.3		12.4	-8.5	
13:18	14.1	-11.1		12.4	-8.5	
	12.8	-10.8		12.4	-8.5	
	13.2	-10.2	50	12.0	-8.1	
	11.2	-8.2		12.0	-8.1	
2+00	11.0	-8.0		12.0	-8.1	
2+10	11.4	-8.4	3+80	12.0	-8.1	

PX STAKE # ~~23~~
21

DIST	SOUND	
3+90	9.7	-6.8
4+00	6.0	-3.1
	4.8	-1.9
4+20	4.8	-1.9

(2.5)

STAKE # 11 7-1-47 PX (29)

0700 = STAKE # 11 : SOUND N/W IN DIRECTION
OF RADIUS OF CIRCLE

DIST	SOUND	
0757	0.0	+2.7
+60	0.8	+1.9
70	5.0	-2.3
12:43	6.7	-4.0
(27)	7.8	-5.1
1400	10.4	-7.7
	10.5	-7.8
	11.0	-8.3
	11.0	-8.3
	11.0	-8.3
50	11.0	-8.3
13:45	11.4	-8.7
	11.8	-9.1
	10.8	-9.1
	12.0	-9.3
	12.2	-9.6
2700	12.5	-9.8
	12.4	-9.7

2710

PX STAKE # "4" 7-1-47
 0+00 = STAKE # 4 : SOUND N/E IN DIRECT

OF RADIUS OF CIRCLE

DIST	SOUND	
0+67	0.0	+2.7
0+70	1.5	+1.2
13:55+80	3.2	-0.5
(2.7)	4.3	-1.6
1+00	5.4	-2.7
	9.0	-6.3
	9.4	-6.7
	9.7	-7.0
	10.1	-7.4
50	10.8	-8.1
	11.0	-8.3
	11.1	-8.4
	11.4	-8.7
	11.4	-8.7
2+00	11.4	-8.7

PX 7-10-47 (30)
 X-SECTIONS & SOUNDINGS PROJECT # 7

STA.	+	H.I.	-	ELEV.	
B.M.	4.53	15.13		10.60	TOP HUB STA-62+00
T.B.M.			2.34	12.79	TOP STAKE (STA-61+00) (S-111+00)
	3.00	15.79			
STA - 62+00					
DIST					
1+00			5.0	10.8	
0+55 E			5.8	10.0	
0+51 E			5.6	10.2	
125 E			6.5	9.3	
158 E			9.8	6.0	
195 E			14.1	1.7	
STA - 62+00					
(Sta-62+00) SOUND EAST AT 90° TO R/L.					
DIST	SOUND		DIST	SOUND	
0+0	0.5	+1.2	0+60	6.1	-4.4
2+0	2.5	-0.8	(1.7)	6.4	-4.7
(1.7)	2.5	-0.8		6.1	-4.4
	4.7	-3.0		10.1	-8.4
50	6.4	-4.7	1+00	10.9	-9.2

7-10-47

PX	STA	62+	00		
DIST	SOUND		DIST	SOUND	
1+10	11.0	-9.3	3+10	10.2	-8.5
<u>09:40</u>	11.0	-9.3		11.3	-9.6
(1.7)	11.1	-9.4	(1.7)	11.4	-9.7
	11.0	-9.3		10.7	-9.0
50	10.4	-8.7	50	9.7	-8.0
	10.1	-8.4	<u>09:48</u>	9.0	-7.3
	9.8	-8.1		8.0	-6.3
<u>09:43</u>	9.6	-7.9		6.6	-4.9
	9.5	-7.8		6.5	-4.8
2+00	9.2	-7.5	4+00	5.1	-3.4
	11.3	-9.6		4.4	-2.7
	11.4	-9.7		4.1	-2.4
	11.4	-9.7		3.5	-1.8
	11.4	-9.7		2.9	-1.2
50	11.4	-9.7	50	1.0	+0.1
	11.5	-9.8	^{47 54} <u>09:50</u>	0.0	+1.7
<u>09:45</u>	11.3	-9.6			
	11.3	-9.6			
	11.1	-9.4			
3+00	10.3	-8.6			

7-10-47 (31)

STAKE # 17 - CHECK SOUNDINGS ON SHOPE
DANA-BASIN

STAKE # 17 - SOUND IN THE DIRECTION OF RADIUS OF CURVATURE

PX	STAKE	# 17	CHECK	SOUNDINGS	ON	SHOPE
DIST	SOUND					
0+18	0.0	+1.9				
60	3.3	-1.4				
^{10:07} 470	5.9	-4.0				
(1.3)	6.1	-4.2				
	6.1	-4.2				
1+00	10.4	-8.5				
	11.2	-9.3				
	11.2	-9.3				
	11.4	-9.5				
	11.4	-9.5				
50	11.2	-9.3				

PX

STAKE # 16 DANA BASIN 9-10-47

STAKE # 12 DANA BASIN 9-10-47

(32)

0+00=STAKE # 16: SOUND IN THE DIRECTION OF RADIUS OF CIRCLE

0+00=STAKE # 12: SOUND IN THE DIRECTION OF RADIUS OF CIRCLE.

DIST	SOUND	DIST	SOUND
0+50	0.0 +2.0		
<u>10:12</u>	+60 3.0 -1.0		
(2.0)	4.5 -2.5		
	6.0 -4.0		
	6.7 -4.4		
1+00	8.5 -6.5		
<u>10:20</u>	11.0 -9.0		
	11.0 -9.0		
	11.1 -9.1		
	11.2 -9.2		
50	11.5 -9.5		

DIST	SOUND	DIST	SOUND
0+47	0.0 +2.1		
450	0.6 +1.5		
<u>10:32</u>	2.8 -0.7		
(2.1)	4.5 -2.4		
	6.2 -4.8		
	8.3 -6.8		
1+00	10.7 -8.6		
	11.0 -8.9		
	11.0 -8.9		
	11.0 -8.9		
<u>10:35</u>	10.8 -8.7		
50	11.2 -9.1		

CHECK SOUNDINGS ON SHOLES PROJECT # 9

7-10-47

PX

STA-67+00

110+00
0+60
109+400+00 = { STA-67+00 }
R-109+40 : SOUND WEST AT 90° TO R/L.

DIST	SOUND		DIST	SOUND	
0+03	0.0	+3.2	1+80	11.5	-8.3
0+10	0.2	+3.0		10.5	-8.3
<u>12:28</u>	0.7	+2.5	2+00	9.2	-6.0
(3.2)	1.0	+2.2		9.2	-6.0
	1.7	+1.5	(3.2)	10.0	-6.8
50	2.0	+1.2		11.0	-7.8
	2.3	+0.9	<u>12:35</u>	12.4	-9.2
	4.3	-1.1	50	13.0	-9.8
	5.5	-2.3		13.1	-9.9
	5.5	-2.3		14.0	-10.8
1+00	6.5	-3.3		14.0	-10.8
	6.5	-3.3		14.8	-11.6
	6.5	-3.3	3+00	15.2	-12.0
<u>12:32</u>	7.7	-4.5			
	8.2	-5.0			
50	9.0	-5.8			
	11.2	-8.0			
1+70	11.5	-8.3			

CHECK SOUNDINGS

7-10-47

PX

STA-66+00

111+00
465
106+35

(33)

0+00 = { STA-66+00 }
R-106+35 : SOUND WEST AT 90° TO R/L.

DIST	SOUND		DIST	SOUND	
0+05	0.0	+3.4	1+80	11.7	-8.3
0+10	0.5	+2.9	<u>12:53</u>	11.7	-8.3
<u>12:47</u>	<u>1.6</u>	+1.8	2+00	11.7	-8.3
(3.4)	2.0	+1.4		12.5	-9.1
	2.1	+1.3	(3.4)	13.4	-10.0
50	3.8	-0.4		13.5	-10.1
	5.4	-2.0		13.4	-10.0
	5.8	-2.4	50	13.4	-10.0
	7.3	-3.9		13.5	-10.1
	9.4	-6.0		13.5	-10.1
1+00	9.0	-5.6		13.2	-9.8
<u>12:50</u>	9.0	-5.6		13.0	-9.6
	10.0	-6.6	3+00	13.4	-10.0
	10.8	-7.4		13.3	-9.9
	10.3	-6.9		13.1	-9.7
50	10.9	-7.5		13.4	-10.0
	11.4	-8.0	<u>12:57</u>	13.5	-10.1
1+70	11.7	-8.3	3+50	13.5	-10.1

PX

T.B.M.'S FOR X-SECTIONS PROJECT # 7

7-10-47

STA	+	H.I.	-	ELEV.	
B.M.	1.44	14.23		12.79	TOP 2x2 HUB STA-61+00
T.B.M.			2.60	11.63	TOP HUB STA-62+00
T.B.M.			3.15	11.08	TOP HUB STA-63+00
T.B.M.			3.63	10.60	TOP HUB STA-64+00
T.B.M.			3.59	10.64	TOP HUB STA-65+00
T.B.M.			4.03	10.20	TOP HUB STA-66+00
T.P.	1.22	10.45	5.00	9.23	PIPE LINE

STA- 67+00

0+00 = { STA-67+00 }
R-110+00 SECTIONS ARE AT 90° TO R/L

DIST	+	H.I.	-	ELEV
		10.45		
W0+65		6.6	3.8	
W0+28		5.5	4.9	
W0+00		5.0	5.4	
E.0+29		5.3	5.1	
E.0+63		6.4	4.0	

PX

7-10-47

(39)

Sta 66+00

Dist	+	H.I.	-	EI
0+00				
				Sections are at 90° to R/L
				Sta. 66+00 R-111+00
				T.B.M 65+00
0+00			5.1	9.5
E.0+13			5.7	8.9
E.0+31			8.2	6.4
E.0+42			10.5	4.1

Sta. 65+00

0+00 = Sta. 65+00
R-111+00 Sech at 90° to R/L

Dist	+	H.I.	-	Elev
				10.60 T.B.M 64+00
E.0+50	4.28	14.88	10.6	4.3
E.0+33			8.0	6.9
E.0+18			5.8	9.1
0+00			5.0	9.9

7-10-47

PX

Sta 64+00

0+00 = Sta 64+00
R. 111+00 Sec. at 90° to B.L.

Dist + H.I. - Elev

3.80 14.88 11.08

T.B.M.
Sta 63+00

0+00 4.9 10.0

E. 0+21 5.3 9.6

E. 0+40 7.7 7.2

E. 0+55 10.4 4.5

Sta. 63+00

0+00 = Sta 63+00
R. 111+00 Sec. 90° to B.L.

Dist + H.I. - Elev

3.82 15.5
14.50 11.63T.B.M.
62+00

0+00 4.9 10.6

E. 0+52 5.2 10.3

E. 0+80 8.6 6.9

E. 0+95 11.0 4.5

PX

Sta 61+00

0+00 = Sta. 61+00
R. 111+00 Sec. at 90° to B.L.

Dist + H.I. - Elev

4.46 16.09 11.63

T.B.M.
62+00

0+00 5.0 11.1

E. 0+55 5.6 10.5

E. 115 5.9 10.2

E. 210 5.7 10.4

E. 260 6.1 10.0

E. 290 7.6 8.4

E. 340 9.2 6.9

E. 384 10.7 5.4

E. 415 11.0 5.1

E. 450 10.6 5.5

E. 475 9.7 6.4

E. 510 8.7 7.4

E. 545 7.4 8.7

E. 584 6.2 9.9

E. 642 5.6 10.5

E. 695 5.6 10.5

7-10-47

35

PX

7-10-47

Sta 61+00 Cont.

Dist	+	HI	-	Elev
		16.09		
E. 765			5.6	10.5
E. 845			5.4	10.7
E. 902			5.2	10.9
E. 975			5.2	10.9
E. 1030			5.2	10.9
E. 1090			5.5	10.6

Sta 60+00

0700 = Sta 60+00
R 111+00 Sec. at 90° to RL

Dist	+	HI	-	Elev
Sta. 60+00 Cans. RL	5.53	16.21		10.68
E. 1085			5.7	10.5
E. 1025			5.4	10.8
E. 955			5.6	10.6
E. 885			5.2	11.0
E. 815			5.7	10.5
E. 742			5.6	10.6

PX

7-10-47

(36)

Sta 60+00 Cont.

Dist	+	HI	-	Elev
E		16.21		
E. 665			5.5	10.7
E. 580			5.5	10.7
E. 503			5.2	11.0
E. 423			5.4	10.8
E. 340			5.9	10.3
E. 265			5.8	10.4
E. 210			5.8	10.4
E. 165			5.7	10.5
E. 105			5.5	10.7
E. 9765			4.9	11.3
E. 926			4.6	11.6
E. 900			4.9	11.3

PX	T.B.M.'s FOR X-SECTIONS			7-10-47
STA	+	H.I.	-	ELEV
B.M.	5.62	18.41		12.79 T.O.P HUB STA-61+00
T.B.M.			6.30	12.11 T.O.P HUB STA-60+00
T.B.M.			5.49	12.92 T.O.P HUB STA-59+00
T.B.M.			5.62	12.79 T.O.P HUB STA-58+00
T.B.M.			5.04	13.37 T.O.P HUB STA-57+00
T.B.M.			4.19	14.22 T.O.P HUB STA-56+00
T.B.M.			3.55	14.86 T.O.P HUB STA-55+00
T.B.M.			3.31	15.10 T.O.P HUB STA-54+00
T.B.M.			3.22	15.19 T.O.P HUB STA-53+00
T.B.M.			2.89	15.52 T.O.P HUB STA-52+00
T.B.M.			3.58	14.83 T.O.P HUB STA-51+00
T.B.M.			2.24	16.17 T.O.P HUB STA-50+00

PX	STA-59+00			7-10-47
	0+00 = R-111+00			(37)
DIST	+	H.I.	-	ELEV
	4.81	16.92		12.11 STA-60+00
0+00			5.0	11.9
0+75 E			5.3	11.6
155 E			5.5	11.4
240 E			5.4	11.5
315 E			6.3	10.6
415 E			5.8	11.1
525 E			5.5	11.4
630 E			5.8	11.1
730 E			3.6	11.3
840 E			5.9	11.0
945 E			6.3	10.6
1060 E			6.0	10.9
1120 E			6.0	10.9

7-18-47 3.67
 X-SECTIONS MODEL BOAT BASIN

SECTION NORTH & SOUTH ALONG O.O. LINE EAST SIDE OF

	DIST	+	H.I.	-	ELEV
			BOAT BASIN		
0+00 =	157		PT 57'		WEST OF S/E COR.
DIST	+		H.I.	-	ELEV
B.M.	3.67		14.82		11.15
N-23			8.5		6.3
N-18			5.2		9.6
N-10			3.0		11.8
N-5			5.1		9.7
0+00.			5.1		9.7
S-12			4.5		10.3
S-19			2.4		12.4
S-23			1.3		13.5
S-31			2.2		12.6
S-54			1.3		13.5
S-81			1.5		13.3
S-100			2.1		12.7

STA-85+00
 CAUSEWAY 7/2

410

0.0 LINE CONT.

7-18-47 (38)

DIST	+	H.I.	-	ELEV
N330		14.82	4.9	9.9
N 285			3.6	11.2
N 225			1.8	13.0
N 221			0.1	14.7
N 210			3.0	5.7
T.P			2.04	12.78

Indexed

SECTION NORTH & SOUTH ALONG LINE 200' WEST OF

DIST	+	H.I.	-	ELEV
DX		S/E COR	95 LINE	BOAT BASIN
T.P	4.10	16.88		12.78
S-100			2.1	14.8
S-30			3.5	13.4
S-50			4.1	12.8
S-42			2.3	14.6
S-35			4.5	12.9
0+00			5.3	11.6
N-9			4.1	12.8
N-14			2.1	9.8

7-18-47

PX				
N-20	16.88	10.2	6.7	
N-211	⁹³ 19.59	10.7	6.2	
N-221		2.9	14.0	
N-230		6.7	10.2	
N-240		6.7	10.2	
N-288		7.7	9.2	
N-342		7.8	9.1	
T.P.	16.88	4.51	12.37	

SECTION NORTH & SOUTH ALONG LINE 400' WEST OF
S/E COR. 95 LINE BOAT BASIN

DIST	+	H.I.	-	ELEV
T.P.	3.59	15.96		12.37
S-700		^{5.15} 18.81	1.9	14.1
S-60			3.0	13.0
S-56			1.0	15.0
S-48			4.2	11.8
0+00			^{5.15} 5.2	13.8
N-9			5.5	10.5
N-12			3.7	12.3

7-18-47

PX				
DIST	+	H.I.	-	ELEV
N-15		15.96	6.5	9.5
N-20		³² 12.16	9.4	6.6
N-222			9.5	6.5
N-228			5.8	10.2
N-235			1.5	14.5
N-240			3.8	12.2
N-250			6.5	9.5
N-285			7.4	8.6
N-330			7.2	8.8
T.P.	4.03	15.96	5.11	10.85

SECTION NORTH & SOUTH ALONG LINE 600' WEST OF
S/E COR. 95 LINE BOAT BASIN

DIST	+	H.I.	-	ELEV
T.P.	4.03	14.88		10.85
S-70			2.0	12.9
S-55			4.0	10.9
S-28			4.2	10.7
0+00			5.2	9.7
N-5			5.3	9.6

7-18-47

N-09	14.88	3.2	11.7
	3.2		
N-12	11.28	5.7	9.2
N-16		8.8	6.1
N-220		8.8	6.1
N-226		4.2	10.7
N-231		0.4	14.5
N-240		3.6	11.3
N-290		6.1	8.8
N-320		6.4	8.5
T.P.	14.88	3.44	11.44

SECTION ALONG 0.0 LINE ON WEST SIDE OF

BOAT BASIN

0700 = PT. 57' EAST OF 9.5 LINE ON WEST SIDE P/B

DIST	+	H.I.	-	ELEV
T.P.	1.26	12.70		11.44
S 100			3.1	9.6
S 50			3.2	9.5
0700			4.6	8.1
N-12			3.0	9.7

7-18-47

DIST	+	H.I.	-	ELEV
N-15		12.7	0.4	12.3
N-23			6.2	6.5
N-210			6.5	6.2
N-220			1.9	10.8
N-225			4.0	8.7
N-260			4.5	8.2

(70)

7-24-47
SOUNDINGS PROJECT # 8 SOUND EAST

STA- 80+00 0+00=PT. 3' W ST

DIST EAST	SOUND	DIST	SOUND
0+10	0.0		
<u>09:05</u> +20	4.8		
+30	8.1		
+40	8.7		
+50	9.0		
+60	10.8		
+70	11.4		
+80	12.7		
+90	12.5		
100	12.0		

7-24-47
CHECK SOUNDINGS

STA- 102+00

PX (31)

0+00 = { STA-102+00 / 19-100+00 } ; SOUND WEST AT 90° TO R/L. Index

DIST	SOUND	DIST	SOUND
8+00	8.8 -6.7	9+80	9.3 -7.2
<u>10:05</u> +10	8.8 -6.7		9.3 -7.2
(2.1)	8.8 -6.7	10+00	9.4 -7.3
	9.0 -6.9	(2.1)	9.8 -7.7
	9.1 -7.0		9.7 -7.6
50	9.2 -7.1		9.8 -7.7
	9.4 -7.3		9.9 -7.8
	9.5 -7.4	50	9.9 -7.8
	9.3 -7.2		9.6 -7.5
	9.2 -7.1		9.5 -7.4
9+00	9.2 -7.1		9.5 -7.4
	9.3 -7.2		9.5 -7.4
	9.4 -7.3	11+00	9.4 -7.3
	9.5 -7.4		9.8 -7.7
	9.5 -7.4		9.5 -7.4
50	9.4 -7.3	<u>10:08</u>	9.0 -6.9
	9.4 -7.3		8.7 -6.6
9+70	9.2 -7.1	11+50	8.0 -5.9

PT	STA-102+00	DIST	SOUND
11+60	8.0	-5.9	13+60 2.6
	8.0	-5.9	6.0
	8.2	-6.1	7.7
	8.5	-6.4	8.2
12+00	8.6	-6.5	14+00 11.5
	8.6	-6.5	12.3
	8.5	-6.4	10.5
(2.1)	8.5	-6.4	10.2
(2.2)	8.5	-6.3	10.3
50	8.5	-6.3	50 10.3
	8.3	-6.1	10.6
	8.4	-6.2	
10:10	8.6	-6.4	
	8.7	-6.5	
13+00	8.7	-6.5	15+00
	8.5	-6.3	
	8.2	-6.0	
	7.8	-5.6	
	7.1	-4.9	
13+50	2.7	-0.5	

STA-100+00	DIST	SOUND	PT
(STA-100+00) -87+50 +96+50	SOUND WEST 119° TO R/L.		(42)
0.0	+3.8	1470	11.9
1.0	+2.8	12:50	12.4
2.5	+1.3	(3.8)	12.4
5.0	-1.2	2+00	12.4
5.4	-1.6		12.5
6.8	-3.0		12.8
7.5	-3.7		12.5
8.4	-4.6		12.5
8.1	-4.3	50	12.0
8.7	-4.9		12.2
10.0	-6.2		12.4
9.8	-6.0		12.4
11.3	-7.5		12.1
11.5	-7.7	3+00	12.0
11.7	-7.9		11.7
11.7	-7.9		12.5
50 12.2	-8.4		13.0
1760 12.4	-8.6	3+40	13.2

Px	STA-99+00		7-24-47	
DIST	SOUND		DIST	SOUND
3+50	14.7	-10.6	5+50	7.4 -3.3
	14.0	-9.9		2.8 +1.3
(4.1)	13.1	-9.0	(4.1)	2.5 +1.6
	12.4	-8.3		13:20
	12.4	-8.3		
4+00	12.4	-8.3	6+00	
	12.4	-8.3		
	12.5	-8.4		
	12.6	-8.5		
	12.8	-8.7		
50	12.8	-8.7		
	12.4	-8.3		
	12.4	-8.3		
	12.2	-8.1		
	12.6	-8.5		
5+00	12.4	-8.3		
	13.0	-8.9		
	12.8	-8.7		
	12.2	-8.1		
5+40	11.1	-7.0		

7-24-47		7-24-47		
2750 2550 0+00		STA-98+00		
(STA-98+00 24-35+60) : SOUND WEST AT 20° TO R/L.				
DIST	SOUND		DIST	SOUND
0+05	0.0	+4.2	1+80	12.8 -8.6
	3.0	+1.2		12.7 -8.5
	3.8	+0.4	2+00	12.7 -8.5
	5.0	-0.8		12.5 -8.3
(4.2)	7.1	-2.9		12.5 -8.3
	8.5	-3.3	(4.2)	12.5 -8.3
	9.2	-3.0	13:30	12.4 -8.2
	9.2	-3.0	50	12.4 -8.1
	9.5	-3.3	(4.3)	12.6 -8.3
	9.5	-3.3		12.5 -8.2
1+00	9.0	-4.8		12.8 -8.5
	10.1	-5.9		13.0 -8.7
	11.6	-7.4	3+00	14.0 -9.7
	12.3	-8.1		14.0 -9.7
13:30	12.4	-8.2		14.6 -9.7
50	12.6	-8.4		12.9 -8.6
	12.8	-8.6		12.4 -8.1
1+70	12.8	-8.6	3+50	12.1 -7.8

PX
 DIST STA - SOUND DIST SOUND

3+60	12.2	-7.9		
	12.2	-7.9		
(4.3)	12.2	-7.9		
	12.8	-8.5		
4+00	12.5	-8.2		
	12.5	-8.2		
	12.1	-7.8		
	12.0	-7.7		
13:33	12.2	-7.9		
50	12.4	-8.1		
	12.8	-8.5		
	12.8	-8.5		
	12.8	-8.5		
	12.0	-7.7		
5+00	9.0	-4.7		
	3.1	+1.2		
5+20	2.7	+1.6		

7-24-47

9:50
 280W
 35°30'
 STA- 97+00 PX (45)

0+60 = (STA-97+00) : SOUND WEST AT 90° To R/L

DIST	SOUND	DIST	SOUND
0+65	0.0 +4.4	1+80	13.0 -8.6
+10	2.5 +1.9		13.0 -8.6
13:40			
+20	4.0 +0.4	2+00	13.0 -8.6
	5.8 -1.4		12.7 -8.3
(4.4)	7.0 -2.6	(4.4)	12.5 -8.1
50	7.0 -2.6		12.5 -8.1
	7.4 -3.0		12.6 -8.2
11:54			
	8.0 -3.6	50	13.0 -8.6
	8.8 -4.4		13.0 -8.6
	10.5 -6.1		12.6 -8.2
1+00	11.5 -7.1		14.0 -9.6
	12.0 -7.6		13.6 -9.2
	12.0 -7.6	3+00	13.6 -9.2
	12.0 -7.6		13.7 -9.3
	12.7 -7.8		13.7 -9.3
50	12.4 -8.0	(4.4)	13.7 -9.3
	12.8 -8.4	(4.5)	13.5 -9.0
1+70	13.0 -8.6	3+50	13.4 -8.9

STA- 97+00			7-24-47		
DIST	SOUND	DIST	SOUND	DIST	SOUND
3+60	13.3	-8.8			
	13.3	-8.8			
<u>14:00</u>	13.3	-8.8			
	13.1	-8.6			
4+00	13.0	-8.5			
(4.5)	13.0	-8.5			
(4.6)	13.1	-8.3			
	13.1	-8.5			
	13.1	-8.5			
50	12.0	-7.4			
	12.2	-7.6			
	12.0	-7.4			
	11.5	-6.9			
	10.0	-5.4			
5+00	4.3	+0.3			
5+10					
<u>14:04</u>					

STA- 96+00			7-24-47		
DIST	SOUND	DIST	SOUND	DIST	SOUND
9750 230 9520					
STA- 96+00 94-95+20) SOUND WEST AT 90° TO #2.					
0+00	0.0	+4.7	1+80	13.3	-8.6
10	3.0	+1.7		13.2	-8.5
120	4.5	+0.2	2+00	13.2	-8.5
	6.0	-1.3		12.8	-8.1
(4.7)	6.7	-2.0	(4.7)	12.8	-8.1
50	7.1	-2.4		12.4	-7.7
	7.3	-2.6		12.0	-7.3
	7.8	-3.1	50	12.0	-7.3
	8.3	-3.6		12.8	-8.1
	9.2	-4.5		14.1	-9.4
1+00	11.0	-6.3		14.8	-10.1
	12.8	-8.1		15.0	-10.3
	13.0	-8.3	3+00	14.8	-10.1
	13.0	-8.3		14.4	-9.7
	13.0	-8.3		13.9	-9.2
50	13.0	-8.3		13.9	-9.2
	13.2	-8.5		13.6	-8.9
1+70	13.3	-8.6	50	13.5	-8.8

DP STA- 96+00
 DIST SOUND DIST SOUND

3+60	13.0	-8.3
	13.2	-8.5
(4.7)	13.8	-9.1
	13.0	-8.3
4+00	13.0	-8.3
	13.0	-8.3
	13.0	-8.3
	13.0	-8.3
	13.2	-8.5
50	13.7	-9.0
	14.0	-9.3
	13.1	-8.4
	12.1	-7.4
	8.0	-3.3
5+00	3.2	+1.5
	2.7	+2.0

14:19

7-24-47
 2750
 220
 2570
 PX STA- 95+00
 7-24-47 (47)

0+00 = {STA-95+00
 7-95+30}: SOUND WEST AT 90° TO P/L

DIST	SOUND	DIST	SOUND
0+06	0.0 +4.8	1+80	13.2 -8.4
1+0	0.5 +4.3		13.1 -8.3
14:15 1+20	4.0 +0.8	2+00	13.0 -8.2
	6.1 -1.3		13.0 -8.2
(4.8)	7.1 -2.3	(4.8)	13.0 -8.2
50	8.2 -3.4		13.0 -8.2
	8.2 -3.4		13.0 -8.2
	8.8 -4.0	50	13.0 -8.2
	8.7 -3.9		13.0 -8.2
	9.0 -4.2		13.8 -9.0
1+00	9.6 -4.8		14.5 -9.7
	12.4 -7.6		14.5 -9.7
	12.7 -7.9	3+00	14.1 -9.3
	12.6 -7.8		14.1 -9.3
	13.0 -8.2		14.1 -9.3
50	13.0 -8.2		14.0 -9.2
	13.2 -8.4		14.0 -9.2
1+70	13.2 -8.4	3+50	14.0 -9.2

PX STA- 95+00		
DIST	SOUND	
3+60	14.0	-9.2
	14.3	-9.5
(4.8)	14.0	-9.2
	14.0	-9.2
4+00	14.0	-9.2
	14.0	-9.2
	14.0	-9.2
	13.8	-9.0
	13.5	-8.7
50	13.0	-8.2
	13.1	-8.3
	13.3	-8.5
	12.8	-8.0
	9.5	-4.7
5+00	4.8	0.0
	4.8	0.0

14:31

PX STA- 94+00			
SOUND WEST AT 90° TO T/L			
DIST	SOUND		DIST SOUND
2+00	0.3	+4.6	1+80 13.2 -8.3
+10	3.0	+1.9	13.0 -8.1
14:31 120	4.7	+0.2	2+00 13.0 -8.1
(4.9)	6.5	-1.6	13.0 -8.1
	7.0	-2.1	13.5 -8.6
50	7.3	-2.4	(4.9) 13.3 -8.4
	7.4	-2.5	<u>14:40</u> 13.5 -8.6
	8.2	-3.3	50 13.0 -8.0
	9.1	-4.2	(5.0) 12.5 -7.5
	9.2	-4.3	13.0 -8.0
1+00	11.0	-6.1	15.0 -10.0
	13.0	-8.1	15.1 -10.1
	12.7	-7.8	3+00 15.3 -10.3
	12.7	-7.8	15.0 -10.0
	12.4	-7.5	14.8 -9.8
50	12.8	-7.9	14.7 -9.7
	13.0	-8.1	14.4 -9.4
1+70	13.2	-8.3	3+50 14.3 -9.3

D STA 947 00
 DIST SOUND DIST SOUND

3+60	14.1	-9.1		
	14.3	-9.3		
(5.0)	14.4	-9.4		
	14.2	-9.2		
4+00	14.2	-9.3		
	14.4	-9.4		
	14.4	-9.4		
	14.5	-9.5		
	14.0	-9.0		
50	14.0	-9.0		
	14.0	-9.0		
	14.2	-9.2		
	13.1	-8.1		
	10.0	-5.0		
5+00	3.9	+1.1		
5+10	3.3	+1.7		
<u>14:43</u>				

D STA 93+00 7-29-47 (49)

0700 = (STA 93+00 to 95+80): SOUND West At 90° To R/L.

DIST	SOUND	DIST	SOUND
1400	0.4 +4.6	1780	14.5 -9.5
0+10	3.5 +1.5		14.3 -9.3
1450	5.0 0.0	2+00	14.4 -9.4
(5.0)	5.2 -0.2	(5.0)	14.4 -9.4
	6.3 -1.3		14.5 -9.5
50	7.1 -2.1		14.4 -9.4
	7.2 -2.2		14.1 -9.1
	7.8 -2.8	50	14.0 -9.0
	8.3 -3.3		13.5 -8.5
	9.5 -4.5		14.0 -9.0
1+00	10.4 -5.4		13.8 -8.8
	12.5 -7.5		14.0 -9.0
	13.1 -8.1	3+00	13.6 -8.6
	12.8 -7.8		13.6 -8.6
	12.8 -7.8		13.3 -8.3
50	13.3 -8.3		13.3 -8.3
	14.0 -9.0		13.1 -8.1
1+70	14.2 -9.2	3+50	13.5 -8.5

PX STA- 93 + 00			DIST SOUND		
3+60	13.4	-8.4			
(5.0)	14.0	-9.0			
14:58	14.7	-9.3			
	14.1	-9.1			
4+00	14.1	-9.1			
	14.0	-9.0			
	13.8	-8.8			
	13.6	-8.6			
	13.8	-8.8			
50	14.1	-9.1			
	14.3	-9.3			
	14.0	-9.0			
	13.7	-8.7			
	13.1	-8.1			
5+00	6.5	-1.5			
	4.0	+1.0			
5+20	3.7	+1.3			

PX STA- 92 + 00					
SOUND WEST AT 90° TO R/L.					
DIST SOUND		DIST SOUND			
0+00	0.5 +4.6	1+80	14.6	-9.5	
1+10	2.3 +2.8		14.0	-8.9	
1+20	3.4 +1.7	2+00	14.4	-9.3	
	5.4 -0.3		14.4	-9.3	
(5.1)	6.2 -1.1	(5.1)	14.4	-9.3	
50	6.7 -1.7		15.0	-9.9	
	6.8 -1.8		15.0	-9.9	
	7.3 -2.2	50	15.0	-9.9	
	8.0 -2.9		15.0	-9.9	
	10.1 -5.0		14.7	-9.6	
1+00	11.0 -5.9		14.5	-9.4	
	11.0 -5.9		14.1	-9.0	
1+10	12.3 -7.8	3+00	14.5	-9.4	
	14.7 -9.6		15.2	-10.1	
	15.0 -9.9		15.2	-10.1	
50	15.3 -10.2		14.5	-9.4	
	15.4 -10.3		13.5	-8.4	
1+70	15.3 -10.2	3+50	13.5	-8.4	

Py STA- 92+00

DIST SOUND DIST SOUND

3+60 14.0 -8.9

15:05 14.0 -8.9

14.0 -8.9

(5.1) 14.0 -8.9

4+00 14.0 -8.9

14.0 -8.9

14.0 -8.9

13.8 -8.7

13.5 -8.4

50 13.3 -8.2

13.1 -8.0

13.1 -8.0

13.0 -7.9

13.0 -7.9

5+00 13.0 -7.9

13.2 -8.1

10.0 -4.9

4.7 +0.4

3.8 +1.3

50

7-24-47 SOUNDINGS ON PROJECT #7

7-28-47

(51)

STA- 73+00

0+00 = STA- 73+00 CAUSEWAY B/L. SOUND EAST

DIST SOUND DIST SOUND

0+00 8.2 -4.4

0+10 7.0 3.2

0207 +20 8.9 5.1

(3.8) 11.2 7.4

12.1 8.3

50 12.8 9.0

13.8 10.0

14.0 10.2

13.0 9.2

11.2 7.4

1700 10.0 6.2

SOUND WEST FROM 0+00

0+00 8.2 4.4 0+60 8.8 5.0

+10 8.7 4.9 (3.8) 9.0 5.2

0207 +20 8.4 4.6 9.0 5.2

(3.8) 9.0 5.2 9.1 5.3

9.7 5.9 1+00 8.5 4.7

0+50 9.1 5.3 1+10 9.2 5.4

A. de la Cruz

STA- 73+ 00		7-28-47	
DIST	SOUND	DIST	SOUND
1+20	9.4	5.6	
	10.1	6.3	
<u>09:15</u>	12.6	8.8	
50	12.2	8.4	
(3.8)	12.1	8.3	
	13.5	9.7	
	13.3	9.5	
	13.1	9.3	
2+00	13.1	9.3	

SOUNDINGS ON PROJECT #8			7-28-47		
STA- 103+ 00			(52)		
0+00 = STA- 103+ 00 CAUSEWAY B/L: PX <i>Indicated</i>					
SOUND EAST			SOUND WEST OF 0+00		
DIST	SOUND		DIST	SOUND	
0+00	+1.3	+4.9	0+00	+1.3	+4.9
0+19	-1.0	+2.6	0+80	0.0	+3.6
<u>03:55</u>	120	3.0	+90	0.5	+3.1
	730	3.8	1+00	1.0	+2.6
(3.6)	3.0	+0.6	(3.6)	2.0	+1.6
50	3.1	+0.5		2.1	+1.5
	2.9	+0.7		3.1	+0.5
	2.4	+1.2		3.0	+0.6
	2.3	+1.3		50	4.2
	2.3	—		10:08	4.6
100	2.3	—		5.7	-2.1
	2.0	+1.6		(3.6)	6.7
	2.0	—		(3.5)	6.5
	2.0	—	2+00	8.0	-4.5
50	2.0	—		8.7	-5.2
				8.0	-4.5
			2+30	9.1	-5.6

STA-103+00. 7-28-47

DIST	SOUND		DIST	SOUND	
2+40	9.1	-5.6	4+40	12.1	-8.6
50	9.4	-5.9	50	12.1	—
<u>10:10</u>	9.8	-6.3	<u>10:13</u>	12.1	—
(3.5)	9.5	-6.0		12.0	-8.5
	9.5	—	(3.5)	11.5	-8.0
	10.0	-6.5		11.2	-7.7
3+00	9.7	-6.2	5+00	11.4	-7.9
	10.6	-7.1		11.8	-8.3
	10.3	-6.8		12.1	-8.6
	11.2	-7.7		12.0	-8.5
	11.6	-8.1		12.0	—
50	11.6	—	50	12.2	-8.7
	11.6	—		12.4	-8.9
	12.1	-8.6	<u>10:15</u>	12.4	—
	11.8	-8.3		12.5	-9.0
	11.5	-8.0		12.4	-8.9
4+00	11.5	—	6+00	12.4	—
	11.7	-8.2		12.4	—
	12.3	-8.8		12.4	—
4+30	12.1	-8.6	6+30	12.5	-9.0

STA-103+00 7-28-47 (53)

DIST	SOUND		DIST	SOUND	
6+40	12.5	-9.0	8+40	12.7	-9.3
50	12.3	-8.8	50	12.5	-9.1
	12.0	-8.5		12.0	-8.6
(3.5)	11.7	-8.2	(3.4)	11.3	-7.9
	11.3	-7.8		11.1	-7.7
	11.2	-7.7	<u>10:20</u>	11.0	-7.6
7+00	11.2	—	9+00	11.2	-7.8
	11.1	-7.6		11.0	-7.6
	11.1	—		11.0	—
<u>10:18</u>	11.1	—		11.0	—
	11.1	—		11.0	—
50	11.1	—	50	11.0	—
	12.7	-9.2		11.0	—
(3.5)	13.0	-9.5		10.3	-6.9
(3.4)	13.0	-9.6		9.3	-5.9
	12.7	-9.3		9.0	-5.6
8+00	12.3	-8.9	10+00	9.2	-5.8
	11.5	-8.1		9.0	-5.6
	13.0	-9.6		9.0	—
8+30	12.7	-9.3	10+30	8.2	-4.8

103+0.0			7-28-47			103+0.0			7-28-47		
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
10+40	7.3	-3.9	12+40	7.3	-3.9	14+40	9.0	-5.6	16+40	10.4	-7.0
50	7.5	-4.1	50	8.0	-4.6	50	9.3	-5.9	50	10.8	-7.4
	7.2	-3.8	<u>10:25</u>	8.0	—	50	8.0	-4.6		11.3	-7.9
(3.4)	7.0	-3.6	(3.4)	8.0	—	(3.4)	7.8	-4.4	(3.4)	11.8	-8.4
	7.6	-4.2		8.0	—		7.5	-4.1		12.2	-8.8
<u>10:23</u>	7.8	-4.4		8.0	—		9.0	-5.6		12.1	-8.7
11+00	7.7	-4.3	13+00	8.2	-4.8	15+00	9.3	-5.9	17+00	12.2	-8.8
	7.9	-4.5		8.4	-5.0		9.0	-5.6		12.2	—
	7.8	-4.4		8.4	—		8.1	-4.7		12.4	-9.0
	6.5	-3.1		8.0	-4.6		8.0	-4.6		12.3	-8.9
	6.0	-2.6		7.4	-4.0		8.0	—		12.1	-8.7
50	9.5	-6.1	50	8.1	-4.7	50	8.0	—	50	12.1	—
	9.0	-5.6		8.0	-4.6		8.2	-4.8		12.0	-8.6
	9.2	-5.8		7.4	-4.0		8.0	-4.6		11.4	-8.0
	9.0	-5.6		7.2	-3.8		8.8	-5.4	<u>10:33</u>	11.4	—
	8.0	-4.6		7.8	-4.4		9.5	-6.1		11.4	—
12+00	8.2	-4.8	14+00	7.4	-4.0	16+00	9.0	-5.6	18+00	11.4	—
	9.1	-5.7	<u>10:28</u>	7.1	-3.7	<u>10:30</u>	9.5	-6.1		11.4	—
	8.5	-5.1		7.7	-4.3		10.0	-6.6		11.4	—
12+30	7.8	-4.4	14+30	8.7	-5.3	16+30	10.4	-7.0	18+30	11.1	-7.7

103+00
 DIST SOUND DIST SOUND

18+40 11.1 -7.7

50 11.1 —

11.0 -7.6

(3.4) 10.8 -7.4

10.8 —

10.8 —

18+00 10.7 -7.3

10.2 -6.8

9.7 -6.3

10:05 9.2 -5.8

8.1 -4.7

50 5.0 -1.6

0.7 +2.7

0.5 +2.9

19+80 0.4 +3.0

PX

7-28-7

ORIGINAL SOUNDINGS OF FILL AREA

PROJECT 3-1

PX

Indexed

(55)

BARRAGAN
 SHEDDEN
 STANLEY
 10-2-77
 CLEAR
 CALM
 COOL

END OF PREVIOUS SECTION OF W-107+00 FROM DE-ANZA B/L)

STA-107+00 W

1200' SOUTH OF STA-107+00 DE-ANZA B/L: SOUND SOUTH

DIST SOUND DIST SOUND

1+00 1.5 +3.5 1+40 1.6 +3.4

2+00 1.9 +3.6 50 1.8 +3.2

1.9 — (5.0) 1.8 —

(5.0) 1.9 — 1.9 +3.1

1.9 — 2.0 +3.0

50 1.9 — 2.0 —

1.5 +3.5 2+00 2.0 —

1.9 +3.6 2.1 +2.9

1.9 — 2.1 —

1.5 +3.5 2.2 +2.8

1+00 1.6 +3.4 2.2 —

1.6 — 50 2.2 —

1.6 — 2.3 +2.7

1+30 1.6 — 2+70 2.3 —

SW-107+00

10-2-47

W-106+00

10-2-47

END OF PREVIOUS SECTION OF W-106+00 FROM DE-ANZA 5/4)

100 FT-20' SOUTH OF 574-W-106+00 DE-ANZA 5/4; SOUND SOUTH

DIST	SOUND	DIST	SOUND
2+80	2.3	4+80	3.8
2.3	—	3.9	+1.1
3+00	2.4	5+00	4.0
(5.0)	2.5	(5.0)	4.0
2.5	—	4.0	—
2.5	—	4.0	—
2.6	+2.4	4.0	—
50	2.7	50	4.0
2.8	+2.2	4.0	—
3.0	+2.0	4.0	—
09:12	3.0	4.0	—
3.1	+1.9	4.0	—
4+00	3.2	6+00	4.0
3.2	—	09:15	4.0
3.2	—	4.2	+0.8
3.5	+1.5	4.2	—
3.5	—	4.2	—
50	3.6	50	4.2
3.7	+1.3	4.3	+0.7
4+70	3.7	6+70	4.3

DIST	SOUND	DIST	SOUND
2+00	1.5	1+80	2.6
1.5	—	2.7	+2.5
1.6	+3.6	2+00	2.7
(5.2)	1.7	(5.2)	2.8
1.7	—	2.8	—
50	1.7	2.9	+2.3
2.0	+3.2	2.9	—
2.1	+3.1	50	2.9
2.2	+3.0	3.0	+2.2
2.2	—	09:28	3.2
1+00	2.3	3.2	—
2.4	+2.8	3.4	+1.8
2.4	—	3+00	3.4
2.5	+2.7	3.5	+1.7
2.5	—	3.5	—
50	2.5	4.0	+1.2
2.6	+2.6	4.1	+1.1
4+70	2.6	3+50	3.5

5769 100' LINE

W-106+00			W-105+00		
DIST	SOUND		DIST	SOUND	
3+60	3.5	+1.7	5+60	4.4	+0.8
	2.8	+1.4	(5.2)	4.5	+0.7
(5.2)	3.8	—			
	3.7	+1.5			
4+00	3.8	+1.4	6+00		
	3.9	+1.3			
	3.9	—			
	3.9	—			
	3.9	—			
50	4.1	+1.1			
	4.1	—			
(4+62)	4.0	+1.2			
	4.0	—			
	4.0	—			
5+00	4.5	+0.7			
09:32	4.4	+0.8			
	4.4	—			
	4.4	—			
	4.4	—			
5+50	4.4	—			

(cont. of previous section of W105+00 from DE AREA B/H.)
 SOUTH OF STA-W105+00 DE AREA B/H: SOUND SOUTH

DIST	SOUND	DIST	SOUND
6+00	1.4		
09:40	1.4		
	1.5		

SEE PAGE (67)

50

1100

ORIGINAL SOUNDINGS OF PROPOSES EAST BAY
CHANNEL - PROJECT 3-1 SECTION "D"

95+00 "D"

10-2-97

95+00 "D"

10-2-97

(58)

0+00 = STA. 95+00 ON 100' OFFSET LINE (1/4) SOUND SOUTH AT 90° TO B/L

DIST	SOUND		DIST	SOUND	
0+00	5.5	+0.2	1+80	5.7	0.0
10:23	5.5	—	(5.7)	5.8	-0.1
(5.7)	5.5	—	2+00	5.8	—
	5.5	—		5.8	—
	5.5	—		5.8	—
50	5.6	+0.1		5.8	—
	5.6	—		5.8	—
	5.7	0.0	50	5.8	—
	5.7	—		5.8	—
	5.7	—		5.9	-0.2
1+00	5.7	—		5.9	—
	5.7	—		5.9	—
	5.7	—	3+00	5.9	—
	5.7	—		5.9	—
	5.8	-0.1		5.9	—
50	5.8	—		5.9	—
	5.8	—		5.9	—
1+70	5.8	—	3+50	5.9	—

DIST SOUND

3+60 5.9 -0.2

5.9 —

(5.7) 5.9 —

5.9 —

4+00 5.9 —

5.9 —

5.9 —

5.9 —

5.9 —

5.9 —

5.9 —

DIST SOUND

FX

Indexed

10-2-47

10-2-47

(59)

94+00 'D'

DIST SOUND

94+00 "D"

DIST SOUND

0+00=STA. 34100 ON 100' OFFSET LINE (R/L) SOUND SOUTH AT 90° TO R/L

3+60

6.0

-0.3

DIST SOUND

DIST SOUND

6.0

PX

6+00

5.6

+0.1

1+80

5.9

-0.2

(5.7)

6.0

10:30

5.6

—

5.9

—

6.0

5.6

—

2+00

5.9

—

4+00

6.0

(5.7)

5.6

—

(5.7)

5.9

—

6.0

5.7

0.0

6.0

-0.3

6.0

50

5.7

—

6.0

—

6.0

5.7

—

6.0

—

6.0

5.7

—

50

6.0

—

50

6.0

5.7

—

6.0

—

6.0

5.7

—

6.0

—

6.0

1+00

5.7

—

6.0

—

6.0

5.7

—

6.0

—

6.0

5.8

-0.1

3+00

6.0

—

5+00

6.0

5.8

—

6.0

—

10:37

5.9

-0.2

6.0

—

50

5.9

—

6.0

—

5.9

—

6.0

—

1+70

5.9

—

3+50

6.0

—

10-2-47

91+00 "D"

0+00 = STA- 91+00 ON/100 OFFSET LINE: SOUND SOUTH AT 90° TO 1/4.

DIST	SOUND		DIST	SOUND	
0+00	5.8	-0.1	1+90	5.9	-0.2
<u>10:55</u>	5.8	—	2+00	5.9	—
	5.8	—		5.9	—
(5.7)	5.8	—	(5.7)	5.9	—
	5.8	—		5.9	—
50	5.8	—		5.9	—
	5.8	—	50	5.9	—
	5.8	—		5.9	—
	5.8	—		6.0	-0.3
	5.8	—		6.0	—
1+00	5.8	—		6.0	—
	5.9	-0.2	3+00	6.0	—
	5.9	—	<u>10:58</u>	6.0	—
	5.9	—		6.0	—
	5.9	—		6.0	—
50	5.9	—		6.0	—
	5.9	—	50	6.0	—
	5.9	—		6.0	—
1+80	5.9	—	3+70	6.0	—

10-2-47

91+00 "D"

(62)

DIST	SOUND		DIST	SOUND
3+80	6.0	-0.3		
	6.1	-0.4		
4+00	6.1	—		
(5.7)	6.1	—		
	6.1	—		
	6.1	—		
	6.1	—		
50	6.1	—		
	6.1	—		
	6.1	—		
	6.1	—		
	6.1	—		
	6.1	—		
	6.1	—		
5+00	6.1	—		
<u>10:59</u>				

10-2-47

97+14. "D"

DIST SOUND

97+14.

"D"

10-2-47

DIST SOUND

(27)

0400=STA 97+00 ON 100' OFFSET LINE (2/4). SOUND SOUTH AT 90° TO R/L

3700

5.6

0.0

DIST

SOUND

DIST

SOUND

0400

5.6

0.0

1480

5.5

+0.1

(5.6)

5.6

11:27

5.6

5.5

5.6

5.6

2400

5.5

4700

5.6

(5.6)

5.6

(5.6)

5.5

5.6

5.6

5.5

5.6

50

5.5

+0.1

5.5

5.6

5.5

5.5

5.6

5.5

50

5.5

50

5.6

5.5

5.5

5.6

5.5

5.5

5.6

1400

5.5

5.6

0.0

5.6

5.5

5.6

5.6

5.5

3400

5.6

5400

5.6

0.0

5.5

5.6

11:27

5.5

5.6

50

5.5

5.6

5.5

5.6

1470

5.5

3450

5.6

96+00 "D"

DIST SOUND

96+00

10-2-17

(66)

DIST SOUND

6+00=STA 96+00 ON 100' OFFSET LINE (OK) SOUND SOUTH AT 90° TO B/L

3+60

5.5

0.0

DIST

SOUND

DIST

SOUND

0+00

5.4

+0.1

1+80

5.4

+0.1

11:38

5.4

5.4

5.4

2+00

5.4

4+00

5.5

(5.5)

5.4

(5.5)

5.4

(5.5)

5.5

5.4

5.4

5.5

50

5.4

5.4

5.5

5.4

5.4

+0.1

5.5

5.4

50

5.5

0.0

50

5.5

5.4

5.5

5.5

5.4

5.5

5.5

1+00

5.4

5.5

5.5

5.4

11:40

5.5

5.5

5.4

3+00

5.5

5+00

5.5

0.0

5.4

5.5

11:42

5.4

5.5

50

5.4

5.5

5.4

5.5

1+70

5.4

+0.1

3+50

5.5

0.0

10-2-47

W105+00

10-2-47

(67)

ORIGINAL SOUNDINGS OF FILL AREA

DIST SOUND

DIST SOUND

PROJECT 3-1

3+20 1.8 +2.2 5+20 2.4 +1.6

STA-105+00 W

1.9 +2.1 2.4

0+00 = PT. 1980 SOUTH OF W-105+00 DE ANZA D/L

(4.0)

1.9 — (4.0) 2.5 +1.5

DIST SOUND DIST SOUND

3+50 1.9 — 50 2.7 +1.3

0+00 0.2 +3.8 1+60 1.2 +2.8 1.9 — 2.8 +1.2

13:42 0.2 — 1.3 +2.7 1.9 — 2.8 —

0.4 +3.6 (4.0) 1.3 — 2.0 +2.0 2.9 +1.1

(4.0) 0.4 — 13:45 1.3 — 13:48 2.0 — 2.9 —

0.5 +3.5 2+00 1.3 — 4+00 2.0 — 6+00 3.0 +1.0

50 0.6 +3.4 1.4 +2.6 2.1 +1.9 3.0 —

0.6 — 1.5 +2.5 2.1 — 6+20 3.0 —

0.7 +3.3 1.6 +2.4 2.2 +1.8 13:52

0.7 — 1.6 — 2.2 —

0.6 +3.4 50 1.7 +2.3 50 2.2 — 50

1+00 0.5 +3.5 1.8 +2.2 2.2 —

0.6 +3.4 1.8 — 2.2 —

1.0 +3.0 1.8 — 2.3 +1.7

1.2 +2.8 1.8 — 2.3 —

1.2 — 3+00 1.8 — 5+00 2.3 —

1+50 1.2 — 3+10 1.8 — 5+10 2.3 —

(5+12) OFFSET LINE

Indexed

10-2-97

W-104+00

(0+00 = END OF PREVIOUS SECTION OF SEA W-109+00 FROM DE-ANZA B/L.)

0+00 = Pt. SOUTH OF STA. W-104+00 DE-ANZA B/L.

DIST	SOUND	DIST	SOUND
0+00	70.1 +3.8	2+50	1.2 +2.5
14:00	+20 -0.1 +3.6	(3.7)	1.2
(3.7)	+40 -0.2 +3.5	14:03	1.2
	+60 -0.3 +3.4		1.3 +2.4
	+80 -0.2 +3.5		1.3
1+00	0.3 +3.4	3+00	1.3
	+20 0.3		1.4 +2.3
	+40 0.3		1.4
	+60 0.5 +3.2		1.4
	+70 0.8 +2.9		1.4
	+80 0.9 +2.8	50	1.4
	+90 0.9		1.5 +2.2
2+00	1.0 +2.7		1.5
	1.0		1.5
	1.1 +2.6		1.6 +2.1
	1.1	4+00	1.6
2+90	1.2 +2.5	4+10	1.7 +2.0

W-104+00

10-2-97

(68)

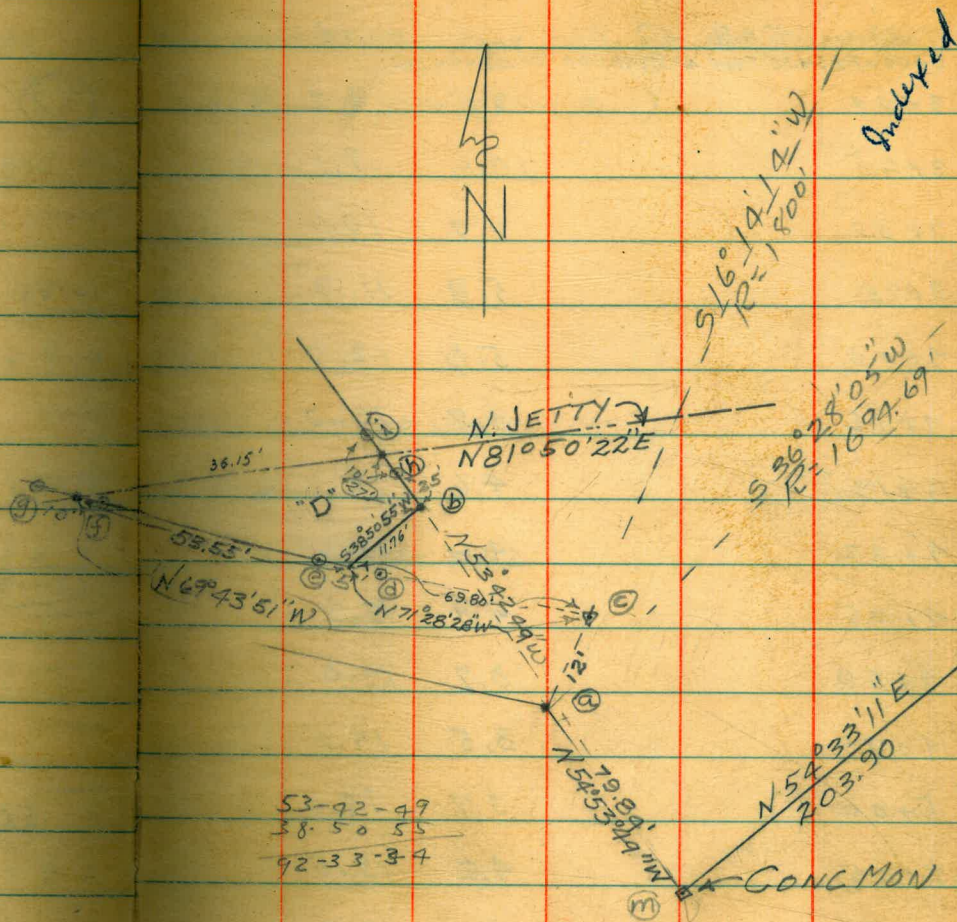
DIST	SOUND	DIST	SOUND
4+20	1.7 +2.0	6+20	2.5 +1.2
	1.7	6+30	2.6 +1.1
(3.7)	1.7	14:08	
50	1.7	(3.7)	
	1.8 +1.9		
14:05	1.8		
	1.8		
	1.9 +1.8		
5+00	1.9		
	2.0 +1.7		
5+93	2.0		
	2.0		
	2.0		
	2.1 +1.6		
50	2.1		
	2.2 +1.5		
	2.2		
	2.3 +1.4		
	2.3		
6+00	2.5 +1.2		
6+10	2.5		

PROPERTY TIES TO
 PROPOSED N. JETTY NWY
 FROM SAN DIEGO PLACE
 MISSION BEACH AREA

STA	OBJECT	AZIMUTH	CHORD
m	b	306° 17' 11"	749.84
	a	305° 06' 11"	79.84
	h	306° 32' 22"	25.00
	l	306° 42' 33"	10.00
a	m	125° 06' 11"	
	c	16° 14' 14"	12.00
c	a	196° 14' 14"	
	d	288° 31' 32"	70.00
	e	288° 41' 20"	5.00
	f	290° 48' 50"	65.00
	g	291° 08' 26"	10.00

12-5-97

T.A. STAMPER



Included

TIDE WATER CONTROL STRUCTURE FOR MDL. YACHT POOL

STA.	+	H.I.	-	ELEV
T.B.M	5.48	17.71		12.23
0+00 = 77.516.88' WEST OF 3488+00 CAUSEWAY B/K.				
3+04			13.5	4.2
3+25			10.6	7.1
3+50			7.7	10.0
3+75			5.8	11.9
4+00			5.0	12.7
4+16			4.7	13.0
4+19			4.6	13.1
4+22			4.6	13.1
4+25			4.4	13.3
4+50			3.7	14.0
4+75			3.5	14.2
5+00			3.7	14.0
5+25			4.2	13.5
5+50			7.4	10.3
5+78			12.96	4.75

BASE OF MAST AT EAST END OF MDL. YACHT POOL

NORTH END OF PIPE (YACHT POOL)

NORTH SIDE OF WELL

E OF WELL

END OF PIPE IN WELL

TOP OF HEAD WALL (ATLANTIC COVE)

[LAYOUT IN BOOK #31 PAGE 17]

LEVELS ALONG DE-ANZA FILL (LEVEE) 4-23-48

STA	+	H.I.	-	ELEV	
T.B.M.	7.50	15.32		7.82	N-105+00
T.P.	4.63	17.07	2.88	12.44	
T.P.	3.57	16.03	4.61	12.46	
T.P.	2.56	16.26	2.33	13.20	
CITY B.M.			4.17	12.09	CITY B.M. BRASS CONC. & BUTTON
T.B.M.	+ 5.13	16.91		11.78	78+00 W CITY B.M. BRASS CONC. & BUTTON
			4.79	12.12	

LEVELS ALONG LEVEE DE-ANZA FILL 4-29-48

STA-	+	H.I.	-	ELEV	
B.M.	5.22	17.53		12.31	CITY B.M. MKA. 12.31
T.P.	1.73	15.05	4.21	13.32	
T.B.M.			2.63	12.42	20' S of LANDING
T.P.	2.28	15.28	2.05	13.00	
			2.42	12.86	S/E COR. DRAIN BOX
T.B.M.	3.06	15.48		12.42	20' S of LANDING
T.P.	2.61	13.27	4.82	10.66	
T.P.	5.71	16.69	2.29	10.98	
			3.98	12.71	N-151+00
T.B.M.	4.73	17.31		12.58	N-151+00
T.P.	3.78	15.42	5.67	11.64	
T.P.	3.96	16.01	3.37	12.05	

LEVELS ALONG LEVEE - DE-ANZA FILL AREA.

4-27-98

STA	+	H.I.	-	ELEV
B.M.	8.43	16.25	.	7.82
T.P.	3.10	15.20	1.15	12.10
T.P.	4.43	15.98	3.65	11.55
T.P.	2.13	15.18	2.93	13.05
T.P.	2.72	14.77	2.83	12.35
T.P.	3.75	16.50	2.02	12.75
T.P.	4.71	16.88	4.33	12.17
T.P.	4.02	16.56	4.34	12.54
T.P.	3.21	16.16	3.61	12.95
T.P.	2.53	15.31	3.38	12.78
T.P.			2.65	12.66

W-105400
DE-ANZA

← S/E CORNER OF DRAIN BOX
+ STA - 87+00



$$c = \frac{c}{a}$$

$$\frac{b^2}{a^2}$$

$$\frac{a^2}{c^2}$$

$$\frac{C}{A}$$

$$\frac{\sin C}{\sin A}$$

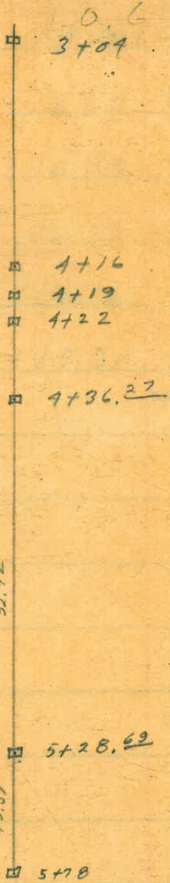
$$\frac{(A+B)}{b}$$

-(A+B)

...d by the
ce = 319.4 ft.
cos 5° 10' =
09 ft.
...inus slope
. With the
the follow-
.9659 = .0041.
e slope dist-
rise = 14 ft.
= 302.28 ft.

67-30.0
66-25.0
69-
68- SLOPE
70-

88+00
2+39
85+61
1+00
84+61

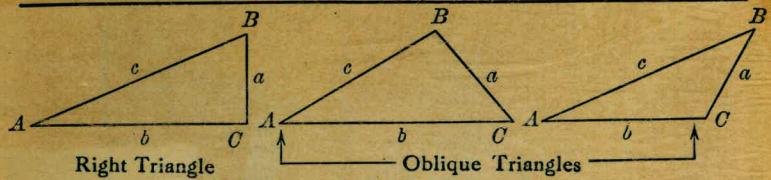


15.28
12.61
2.67

21.31
28.
79.31

578.00
49.31
528.69
578.00
528.69
92.42
436.27
528.69

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

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

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 = $5^\circ 10'$. From Table, Page IX. $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ 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. $\cosine 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ 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.