

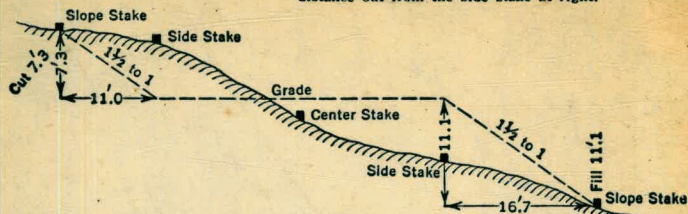
MISSION BAY

66



**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	

KEUFFEL & ESSER CO., N. Y.

# 66  
**MICROFILMED**

JAN 7 1965

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



In th  
from

Cut 7.2

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MICROFILMED

JAN 7 1982

The original tape is made of 1/2" tape  
it made of 1/4" high speed tape  
was a better recording system than

TWILLEX

Project 100

Original Soundings

Sta. 120-121

# INDEX

Page

Date

1-72

Original Sounding E. of Crown  
Point - For W.D. 65036 Dredging  
and Filling DeAnza & Vicinity

March  
and  
April  
1951



Pro. 65036

SOUND EAST						SOUND EAST					
STA 120+00N-0+00 = 14000W						PX					
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
						3+40	5.6	-0.3	5+30	14.3	9.0
						3+50	4.7	+0.6		14.1	8.8
0+00	5.3	0.0	1+70	4.4	+0.9		3.7	+1.6	5+50	14.0	8.7
(10.15)	5.0	+0.3		4.5	+0.8		3.3	+2.0		14.0	8.7
(5.3)	4.8	+0.5		4.8	+0.5		3.4	+1.9		14.1	8.8
	4.5	+0.8	2+00	4.8	+0.5		3.4	+1.9		14.4	9.1
	4.4	+0.9		4.9	+0.4	4+00	3.5	+1.8		14.5	9.2
0+50	4.5	+0.8		5.5	-0.2		3.8	+1.8	6+00	14.5	9.2
	4.5	+0.8		5.2	+0.1		5.9	-0.6		14.3	9.0
	4.6	+0.7		5.8	-0.5		10.0	-4.7		14.2	8.9
	4.6	+0.7	+50	5.8	-0.5		13.2	7.9		14.5	9.2
	4.6	+0.7		6.0	-0.7	+50	14.0	8.7		14.1	8.8
1+00	4.5	+0.8		6.8	-1.5		14.1	8.8	+50	14.2	8.9
	4.8	+0.5		7.0	-1.7		14.0	8.7		12.5	7.2
	4.9	+0.4		7.5	-2.2		14.4	9.1		9.4	4.1
	4.9	+0.4	3+00	7.8	-2.5		14.5	9.2		5.9	0.6
	5.2	+0.1		7.4	2.1	5+00	14.7	9.4		4.2	+1.1
+50	5.0	+0.3		7.1	1.8	(5.3)	14.6	9.3	7+00	3.2	+2.1
	4.8	+0.5		6.0	0.7	(10.20)	14.3	9.0		2.7	+2.6



PX STA 120+00 N  
SOUND EAST 3-8-51

DIST	SOUND	DIST	SOUND
7+20	2.7 +2.6	9+10	2.7 +2.6
	2.7 +2.6		2.7 +2.6
	2.7 +2.6		2.7 +2.6
+50	2.6 +2.7		2.8 +2.5
	2.6 +2.7	+50	3.0 +2.3
	2.7 +2.6	10:25	3.1 +2.2
	2.6 +2.7	5.3	3.2 +2.1
	2.6 +2.7		3.3 +2.0
8+00	2.6 +2.7		3.3 +2.0
	2.6 +2.7	10+00	3.2 +2.1
	2.5 +2.8		3.0 +2.3
	2.6 +2.7		3.0 +2.3
	2.7 +2.6		3.0 +2.3
+50	2.7 +2.6		3.0 +2.3
	2.6 +2.7	+50	3.0 +2.3
	2.6 +2.7		3.1 +2.2
	2.6 +2.7		3.2 +2.1
	2.6 +2.7		3.4 +1.9
9+00	2.6 +2.7		3.3 +2.0

3-8-51 PX (2)

STA 120+00 N  
SOUND EAST

DIST	SOUND	SOUND WEST
11+00	3.1 +2.2	DIST SOUND
	3.1 +2.2	0+00
	3.1 +2.2	+10
	3.0 +2.3	10:35
	2.9 +2.4	5.1
+50	2.9 +2.4	
	2.9 +2.4	+50
	2.8 +2.5	
	2.8 +2.5	
	2.7 +2.6	
12+00	2.7 +2.6	
	2.6 +2.7	1+00
	2.4 +2.9	
	1.9 +3.4	
	1.9 +3.4	
	1.7 +3.6	
		+50



PX STA 120+00 N  
SOUND WEST

STA 120+00 N PX (3)

DIST	SOUND		DIST	SOUND		DIST	SOUND	
1+80	5.4	-0.4	3+70	5.7	-0.7	5+60	2.6	-4.6
	5.4	-0.4		6.3	-1.3		2.0	-4.0
2+00	5.2	-0.2		7.3	-2.3	(5.0)	7.2	-2.2
	5.1	-0.1	4+00	7.4	-2.4	(10:45)	5.4	-0.4
	5.4	-0.4		8.0	-3.0	6+00	4.0	+1.0
(10:40)	5.2	-0.2		8.8	-3.8		3.2	+1.8
(5.0)	5.0	0.0	(5.0)	8.9	-3.9		2.3	+1.7
+50	5.1	-0.1		8.9	-3.9			
	5.1	-0.1	+50	9.2	-4.2			
	5.1	-0.1		9.2	-4.2			
	5.1	-0.1		9.5	-4.5			
	5.1	-0.1		9.1	-4.1			
3+00	5.1	-0.1		9.4	-4.4			
	5.3	-0.3	5+00	9.9	-4.9			
	5.3	-0.3		10.2	-5.2			
	5.3	-0.3		10.4	-5.4			
	5.4	-0.4		10.8	-5.8			
+50	6.0	-1.0		10.4	-5.4			
	5.5	-0.5	+50	10.0	-5.0			



PX

SOUND EAST

SOUND EAST  
STA 121+00 N

PX

④

STA	121+00 N - 0+00 = 14000 W		DIST	SOUND		DIST	SOUND	
DIST	SOUND		DIST	SOUND		DIST	SOUND	
			3+60	3.1	+1.8	5+50	13.5	-8.7
0+00	4.5	-0.4	1+80	7.0	-2.1		13.4	-8.6
④	4.0	+0.9		7.1	-2.2		13.3	-8.5
⑩:55	4.1	+0.8	2+00	7.2	-2.3		13.2	-8.4
	4.1	+0.8		7.4	-2.5	4+00	12.0	-7.1
	4.1	+0.8		6.9	-2.0		13.8	-8.9
+50	4.1	+0.8		6.5	-1.6	6+00	13.2	-8.4
	4.1	+0.8		5.8	-0.9		14.0	-9.1
	4.1	+0.8		5.8	-0.9		13.8	-8.9
	4.3	+0.6	+50	5.0	-0.1		11.8	-7.0
	4.5	+0.4		4.5	+0.4	+50	19.3	-9.4
	5.2	-0.3		3.8	+1.9		8.0	-3.2
	5.2	-0.3		4.5	+0.4	+50	14.0	-9.1
1+00	5.0	-0.1		3.8	+1.9		13.6	-8.7
	4.7	+0.2		3.2	+1.7		13.2	-8.3
	4.7	+0.2		3.0	+1.9		+50	4.5
	4.8	+0.1	3+00	3.0	+1.9		4.0	+0.8
	4.8	+0.1		3.0	+1.9		3.7	+1.1
	4.5	+0.4		2.9	+2.0	5+00	14.0	-9.1
	4.5	+0.4		2.9	+2.0		3.5	+1.3
	4.9	0.0		2.8	+2.1	⑩:00	14.3	-9.4
	4.9	0.0		2.8	+2.1		14.1	-9.2
+50	5.2	-0.3		2.8	+2.1	④	7+00	3.2
	5.2	-0.3		2.8	+2.1		14.0	-9.1
	5.2	-0.3		2.8	+2.1		3.2	+1.6
	5.5	-0.6		2.8	+2.1		13.8	-9.0
	5.5	-0.6		2.8	+2.1		3.3	+1.5
	5.5	-0.6		2.9	+2.0		13.5	-8.7
	5.5	-0.6		2.9	+2.0		3.5	+1.3
	5.9	+1.0	+50	3.0	+1.9		14.0	-9.2
	5.9	+1.0		3.0	+1.9		3.1	+1.7



PX

## SOUND EAST

DIST	SOUND		DIST	SOUND
7+40	3.2 +1.6		9+30	3.0 +1.7
+50	3.3 +1.6			2.7 +2.0
(4.8)	3.1 +1.7	+50		2.7 +2.0
	3.1 +1.7	(4.7)		2.7 +2.0
	3.1 +1.7			2.7 +2.0
	3.0 +1.8			2.7 +2.0
8+00	2.9 +1.9			2.7 +2.0
	2.8 +2.0	10+00	2.6 +2.1	(4.7)
	2.8 +2.0		2.7 +2.0	12+00
	2.8 +2.0		2.6 +2.1	(11:08)
	2.9 +1.9		2.8 +1.9	SOUND WEST
+50	2.8 +2.0		2.8 +1.9	0+00
	2.8 +2.0	+50	2.7 +2.0	
	2.7 +2.1		2.7 +2.0	(11:13)
	2.8 +2.0		2.6 +2.1	(4.6)
	2.7 +2.1		2.5 +2.2	
9+00	2.7 +2.1		2.5 +2.2	+50
(11:05)	2.5 +2.3	11+00	2.4 +2.3	
(4.7)	2.7 +2.1		2.4 +2.3	

PX

## SOUND WEST (3)

## SOUND EAST

DIST	SOUND		DIST	SOUND
11+20	2.4 +2.3		0+80	5.3 -0.7
	2.2 +2.5			5.0 -0.4
	2.0 +2.7	1+00		4.9 -0.3
+50	2.0 +2.7			4.5 +0.1
	2.0 +2.7			4.5 +0.1
	1.9 +2.8			4.5 +0.1
	1.7 +3.0			4.5 +0.1
	1.7 +3.0	+50		4.4 +0.2
	1.7 +3.0			4.5 +0.1
	1.5 +3.2	(11:15)		4.5 +0.1
		(4.6)		4.5 +0.1
				4.6 0.0
	4.8 -0.2	2+00		4.7 -0.1
	4.8 -0.1			4.7 -0.1
	4.7 -0.1			4.7 -0.1
	4.9 -0.3			4.7 -0.1
+50	4.9 -0.3			4.6 0.0
	5.1 -0.5			4.6 0.0



3-9-51

PX

SOUND WEST

SOUND EAST

(6)

PX

STA 10 +00 - 0+00 = 14,000W

DIST	SOUND	DIST	SOUND
2+70	4.6 0.0	4+60	9.7 -5.1
	4.6 0.0		9.4 -4.8
	4.7 -0.1	(4.5)	9.5 -5.0
3+00	4.8 -0.2	(11:20)	9.7 -5.2
	4.8 -0.2	5+00	10.0 -5.5
	5.0 -0.4		10.1 -5.6
(4.6)	5.0 -0.4		10.1 -5.6
	5.2 -0.6		10.3 -5.8
+50	5.0 -0.4		9.8 -5.3
	5.1 -0.5	+50	9.5 -5.0
	5.8 -1.2		9.1 -4.6
	7.0 -2.4		8.8 -4.3
	8.3 -3.7		6.0 -1.5
4+00	8.1 -3.6		4.0 +0.5
	8.5 -3.9	6+00	2.9 +1.6
	9.0 -4.4		2.0 +2.5
	9.5 -4.9		
	9.3 -5.7		
+50	9.9 -5.3		

DIST	SOUND	DIST	SOUND
0+00	6.7 -1.5	1+80	6.5 -1.3
(10:55)	6.5 -1.3		8.9 -3.7
(5.2)	6.0 -0.8	2+00	10.4 -5.2
			11.8 -6.6
	5.3 -0.1		12.5 -7.3
+50	5.0 +0.2		12.4 -7.2
	4.5 +0.7		12.4 -7.2
	4.0 +1.2	+50	12.8 -7.6
	4.0 +1.2		12.8 -7.6
	4.0 +1.2	(11:00)	13.0 -7.8
1+00	4.0 +1.2	(5.2)	13.0 -7.8
	3.7 +1.5		13.1 -7.9
	3.7 +1.5	3+00	12.8 -7.6
	3.6 +1.6		12.5 -7.3
	3.6 +1.6		12.2 -7.0
+50	4.1 +1.1		12.1 -7.1
	4.6 +0.6		12.1 -7.1
	5.5 -0.3	+50	12.1 -7.1



PX

SOUND EAST 3-9-51  
STA 110+00

D	DIST	SOUND	DIST	SOUND
2+	3+60	12.2 -7.0	5+50	15.0 -9.9
		12.2 -7.0		15.5 -10.4
		12.2 -7.0		16.1 -11.0
3		12.2 -7.0		16.1 -11.0
	4+00	12.1 -6.9		16.1 -11.0
		12.0 -6.8	6+00	15.8 -10.7
		11.9 -6.7		15.4 -10.4
	(5.2)	12.1 -6.9		15.4 -10.4
		12.1 -6.9		15.7 -10.6
	+50	12.1 -6.9		15.4 -10.3
		12.4 -7.2	+50	14.4 9.3
		13.0 -7.8		12.0 -6.8
		13.4 -8.2		10.1 -5.0
		14.0 -8.8		8.0 -2.9
	5+00	14.0 -8.8		6.0 -0.9
		14.2 -9.0	7+00	5.1 0.0
		14.9 -9.2	<del>4.9</del>	4.1 +1.0
		15.0 -9.8	(11:05)	3.2 +1.9
		15.0 -9.8	(5.1)	3.1 +2.0

SOUND EAST  
STA 110+00

3-9-51

PX (2)

DIST	SOUND	DIST	SOUND
7+40	3.3 +1.8	9+30	13.1 -8.0
	4.0 +1.1		13.5 -8.4
	4.7 +0.4	+50	13.2 -8.1
	6.7 -1.6		13.2 -8.1
	8.0 -2.9		14.0 -8.9
	9.1 -4.0		13.6 -8.5
8+00	11.3 -6.2		14.3 -9.2
	13.8 -8.7	10+00	13.5 -8.4
(5.0)	13.6 -8.5		13.3 -8.2
	17.0 -11.9	(5.1)	13.0 -7.9
	17.2 -12.1		13.1 -8.0
+50	17.5 -12.4		13.1 -8.0
	16.0 -10.9	+50	12.9 -7.8
	14.0 -8.9		12.6 -7.5
	14.0 -8.9		12.6 -7.5
	13.7 -8.6		12.8 -7.7
9+00	13.5 -8.4		13.0 -7.9
	13.4 -8.3	11+00	13.5 -8.4
	13.1 -8.0		13.1 -8.0



PX

SOUND EAST 3-9-51  
STA 110+00

D	DIST	SOUND	DIST	SOUND
2+	11+20	12.0 6.9	13+10	2.0 +3.1
		5.0 +0.1		2.3 +2.8
		4.4 +0.7		2.1 +3.0
3	+50	3.5 +1.6		2.0 +3.0
		3.0 +2.1	+50	1.7 +3.3
		2.7 +2.4		1.7 +3.3
	(5.1)	2.7 +2.6		1.7 +3.3
		2.6 +2.5		1.6 +3.4
	12+00	2.6 +2.5		1.6 +3.4
		3.4 +2.7	14+00	1.5 +3.5
		2.8 +2.3		
		2.7 +2.4	0+00	
		2.1 +3.0		7.7 -3.8
	+50	2.1 +3.0		8.1 -3.2
		2.5 +2.6		9.2 -4.3
		2.1 +3.0		9.1 -4.2
		2.2 +2.9	+50	9.1 -4.2
		2.1 +3.0		9.1 -4.2
	13+00	2.0 +3.1		9.0 -4.1

SOUND WEST  
STA 110+00N

3-9-51

PX (8)

DIST	SOUND	DIST	SOUND
0+80	8.8 +3.9	2+70	3.4 +1.5
	8.6 -3.7		3.5 +1.4
1+00	8.1 -3.2		3.6 +1.3
	7.8 -2.9	3+00	3.6 +1.3
	8.4 -3.5		3.4 +1.5
	7.5 -2.6		3.6 +1.3
	6.7 -1.8		4.0 +0.9
	6.1 -1.2		3.5 +1.4
	5.7 -0.8	+50	3.5 +1.4
	5.1 -0.3		3.4 +1.5
	4.7 +0.2		3.4 +1.5
	4.6 +0.3		3.2 +1.7
2+00	4.4 +0.5		3.4 +1.5
	4.0 +0.9	4+00	3.4 +1.5
	3.3 +1.6		3.4 +1.5
	3.2 +1.7		3.7 +1.2
	3.3 +1.6		3.9 +1.0
+50	3.4 +1.5		4.4 +0.5
	3.4 +1.5	+50	4.6 +0.3



Px

SOUND WEST 3-9-51

STA 110+00

DIST	SOUND	DIST	SOUND
4+60	4.6 +0.3	6+50	3.3 +1.6
	3.7 +1.2		3.9 +1.5
	3.7 +1.2		3.3 +1.6
	3.8 +1.1		3.2 +1.7
5+00	3.8 +1.1	(4.9)	3.1 +1.8
(11:25)	4.1 +0.8	7+00	3.2 +1.7
(4.9)	4.1 +0.8		3.0 +1.9
	3.8 +1.1		3.2 +1.6
	3.7 +1.2		3.1 +1.8
+50	3.8 +1.1		3.0 +1.9
	3.8 +1.1	+50	3.1 +1.8
	3.7 +1.2		3.0 +1.9
	3.5 +1.4		3.0 +1.9
	3.4 +1.5		2.8 +2.1
6+00	3.4 +1.5		2.8 +2.1
	3.4 +1.5	8+00	2.7 +2.2
	3.4 +1.5	(4.8)	2.7 +2.2
	3.5 +1.4	(11:30)	2.6 +2.3
	3.5 +1.4		2.2 +2.7
			1.7 +3.2

3-21-51

SOUND EAST

(9)

Px

STA 111+00 - 0+00 = 14,000 W			
DIST	SOUND	DIST	SOUND
0+00	4.6 +1.1	1+80	4.4 +1.3
(8:35)	4.6 +1.1	(5.7)	4.1 +1.6
(5.7)	4.6 +1.1	2+00	4.5 +1.2
	4.6 +1.1		4.6 +1.1
	4.7 +1.0		4.5 +1.2
+50	4.6 +1.1		4.7 +1.0
	4.6 +1.1		5.2 +0.5
	4.6 +1.1	+50	5.2 +0.5
	4.4 +1.3		5.3 +0.4
	4.5 +1.2		5.1 +0.6
	4.4 +1.3		4.7 +1.0
	4.2 +1.5		4.3 +1.4
	4.1 +1.6	3+00	4.0 +1.7
	4.1 +1.6		4.1 +1.6
	4.2 +1.5		4.1 +1.6
+50	4.2 +1.5		4.0 +1.7
	4.2 +1.5		4.2 +1.5
	4.1 +1.6	+50	5.1 +0.6



STA 111+00 3-21-51  
 SOUND EAST

STA 111+00 3-21-51  
 SOUND EAST

DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
3+60	6.8	-1.1	5+50	13.2	7.5	7+40	13.1	7.5	9+30	14.6	9.0
	9.0	3.3		13.0	7.3	+50	13.2	7.6	(5.6)	14.5	8.9
	10.8	5.1		12.7	7.0		13.2	7.6	+50	14.4	8.8
	11.4	5.7		12.2	6.5		13.7	8.1		14.4	8.8
4+00	12.0	6.3		12.0	6.3		14.0	8.4		14.7	9.1
	12.7	7.0	6+00	11.9	6.2		14.0	8.4		14.9	9.3
	13.4	7.7		12.0	6.3	8+00	14.2	8.6		15.2	9.6
(5.7)	13.5	7.8		12.5	6.8		14.2	8.6	10+00	15.9	10.3
(8.40)	13.4	7.7		13.3	7.6	(5.6)	14.5	8.9		16.1	10.5
+50	13.4	7.7		13.3	7.6	(8.45)	15.0	9.4		16.4	10.8
	13.4	7.7	+50	13.3	7.6		15.0	9.4		16.4	10.8
	13.5	7.8		14.0	8.3	+50	14.8	9.2		16.4	10.8
	13.6	7.9		14.1	8.4		14.8	9.2	+50	16.2	10.6
	13.7	8.0		14.4	8.7		14.8	9.2		15.7	10.1
5+00	13.0	7.3		14.3	8.6		14.7	9.1		14.7	9.1
	14.0	8.3	7+00	14.5	8.8		14.5	8.9		11.8	6.2
	13.7	8.0		14.3	8.6	9+00	14.5	8.9		6.5	0.9
	13.7	8.0		13.5	8.8		14.5	8.9	11+00	5.1	+0.5
+40	13.4	7.7		13.1	7.4		14.5	8.9		4.2	+1.4



STA 111+00 3-21-51  
 SOUND EAST  
 DIST SOUND DIST SOUND

11+20	3.7	+1.9	13+10	2.7	+2.9
	3.5	+2.1	(5.6)	2.5	+3.1
	3.8	+1.8		2.7	+2.9
+50	3.5	+2.1		2.6	+3.0
(5.6)	3.5	+2.1	+50	2.6	+3.0
(8:50)	3.4	+2.2		2.5	+3.1
	3.3	+2.3		2.5	+
	3.3	+2.3		2.5	+
12+00	3.3	+2.3		2.5	+
	3.3	+2.3	14+00	2.5	+3.1
	3.2	+2.4		2.4	+3.2
	3.2	+2.4		2.4	+
	3.2	+2.4		2.4	+
+50	3.1	+2.5		2.4	+3.2
	3.1	+2.5	+50	2.3	+3.3
	2.9	+2.7		2.3	+
	2.7	+2.9		2.3	+
	2.9	+2.7		2.3	+3.3
13+00	3.0	2.6		2.3	+3.3

STA 111+00 3-21-51 (11)  
 SOUND EAST SOUND WEST  
 DIST SOUND DIST SOUND

15+00	2.2	+3.3	1+60	10.2	4.7
(5.5)	2.2	+3.3	(5.5)	10.1	4.6
(8:55)	2.2	+3.3		9.4	3.9
<u>SOUND WEST</u>					
0+10	4.5	+1.0	2+00	8.1	2.6
(9:00)	4.6	+0.9		7.8	2.3
(5.5)	4.7	+0.6		7.1	1.6
	4.9	+0.6		6.2	0.7
+50	4.9	+0.6		5.1	+0.4
	5.1	+0.4	+50	4.2	+1.3
	6.0	+0.5		4.0	+1.5
	6.5	1.0		4.0	+1.5
	8.3	2.8	(5.5)	4.2	+1.3
+00	9.0	3.5	(9:05)	4.1	+1.4
	9.2	3.7	3+00	4.2	+1.3
	9.0	3.5		4.4	+1.1
	10.0	4.5		4.4	+1.1
	10.1	4.6		4.2	+1.3
+50	10.3	4.6		4.1	+1.4



3-21-51

P STA 11+00 SOUND WEST

DIST	SOUND		DIST	SOUND	
3+50	4.2	+1.2	5+40	4.5	+0.9
(5.4)	4.2	+1.2	(5.4)	4.5	+0.9
	4.1	+1.3	+50	4.4	+1.0
	4.4	+1.0		4.2	+1.2
	4.4	+1.0		4.2	+1.2
4+00	4.3	+1.1		4.1	+1.3
	4.4	+1.0	6+00	4.2	+1.2
	4.5	+0.9		4.1	+1.3
	4.5	+0.9		4.1	+1.3
	4.8	+0.6	(5.4)	4.1	+1.3
+50	4.8	+0.6	(9:10)	4.1	+
	4.7	+0.7	+50	4.1	+
	4.7	+0.7		4.1	+
	4.7	+0.7		4.1	+
	4.7	+0.7		4.1	+1.3
5+00	4.4	+1.0		4.0	+1.4
	4.4	+1.0	7+00	4.0	+1.4
	4.4	+1.0		4.0	+1.4
	4.3	+1.1		3.9	+1.5

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(12)

STA 11+00 SOUND WEST

DIST	SOUND			
7+30	3.9	+1.5		
(5.4)	3.9	+1.5		
+50	3.8	+1.6		
	3.7	+1.7		
	3.5	+1.9		
	3.4	+2.0		
	3.1	+2.3		
8+00	2.7	+2.7		
	2.0	+3.4		

Px



PX

3-21-51

SOUND EAST

STA 112+00 - 0+00 = 14,000 W

DIST	SOUND		DIST	SOUND	
0+00	4.3	+0.9	1+80	4.1	+1.1
(9:27)	4.3	+0.9	(5.2)	4.6	+0.6
(5.2)	3.8	+1.4	2+00	5.0	+0.2
	3.8	+1.4		4.6	+0.6
	3.7	+1.5		4.6	+0.6
+50	4.0	+1.2	(5.2)	4.6	+0.6
	3.9	+1.3	(9:30)	4.4	+0.8
	3.9	+1.3	+50	3.8	+1.4
	3.8	+1.4		3.8	+1.4
	3.7	+1.5		3.4	+1.5
1+00	3.7	+1.5		3.4	+
	3.6	+1.6		3.4	+
	3.5	+1.7	3+00	3.4	+1.5
	3.5	+		3.3	+1.9
	3.5	+		3.3	+
+50	3.5	+1.7		3.3	+
	3.7	+1.5		3.3	+
	4.0	+1.2	+50	3.3	+1.9

3-21-51

STA 112+00

SOUND EAST

(13)

PX

DIST	SOUND		DIST	SOUND	
3+60	3.4	+1.7	5+50	9.8	4.7
(5.1)	3.4	+1.7	5.1	11.2	6.1
	3.3	+1.8		11.8	6.7
	3.3	+1.8		11.8	6.7
4+00	3.4	+1.7		12.1	7.0
	3.5	+1.6	6+00	12.0	6.9
	3.6	+1.5		12.0	6.9
	3.7	+1.4		12.4	7.3
	3.9	+1.2		12.4	7.3
+50	4.0	+1.1		12.0	6.9
	4.4	+0.7	+50	11.5	6.4
	4.4	+0.7		11.0	5.9
	4.5	+0.6		11.0	5.9
	4.5	+0.6		12.3	7.2
+50	5.7	-0.6		12.8	7.7
	4.7	+0.4	7+00	13.0	7.9
	5.1	0.0		14.0	8.9
	6.3	-1.2		14.5	9.4
	7.8	2.7	(5.1)	14.7	9.6
			(9:35)		



3-21-51  
STA 112+00 SOUND EAST  
PX

DIST	SOUND	DIST	SOUND
7+40	14.7 9.6	9+30	14.0 8.9
+50	14.7 9.6	(5.0)	14.1 9.0
(5.1)	14.7 9.6	+50	13.4 8.3
	14.7 9.6		13.1 8.0
	14.6 9.5		13.0 7.9
	14.5 9.4		13.2 8.1
8+00	14.0 8.9		14.0 8.9
	14.5 9.4	10+00	14.0 8.9
	14.4 9.3		13.7 8.6
	14.4 9.3		13.3 8.2
	14.4 9.3		12.0 6.9
+50	14.3 9.2		6.5 1.5
	14.1 9.0	+50	5.0 0.0
	14.1 9.0		4.1 +0.9
	13.5 8.4		4.0 +1.0
	13.3 8.2		3.7 +1.3
9+00	13.8 8.7		3.4 +1.6
	13.5 8.4	11+00	3.4 +1.6
	13.7 8.6		3.3 +1.7

3-21-51  
STA 112+00 SOUND EAST  
(19)  
PX

DIST	SOUND	DIST	SOUND
11+20	3.3 +1.7	13+10	2.1 +2.9
	3.1 +1.9	(5.0)	2.3 +2.7
	3.1 +		2.3 +2.7
+50	3.1 +		2.1 +2.9
(5.0)	3.1 +1.9	+50	2.3 +2.7
(9.40)	2.9 +2.1		2.2 +2.8
	2.8 +2.2		2.1 +2.9
	2.7 +2.3		2.1 +2.9
12+00	2.7 +		2.0 +3.0
	2.7 +	14+00	2.0 +3.0
	2.7 +2.3		2.0 +3.0
	2.6 +2.4		1.9 +3.1
	2.7 +2.3		1.9 +3.1
+50	2.7 +2.3		1.9 +3.1
	2.7 +2.3	+50	1.8 +3.2
	2.6 +2.4		1.8 +
	2.6 +2.4		1.8 +
	2.4 +2.6		1.8 +
13+00	2.4 +2.6		1.8 +3.2



PX

3-21-51

STA 112+00 SOUND WEST

DIST	SOUND	DIST	SOUND
15+00	1.8 +3.1	1+40	3.7 +1.1
	1.7 + <del>3.2</del> <sup>3.3</sup>	+50	5.0 -0.2
	1.7 + <del>3.2</del> <sup>3.2</sup>		5.5 0.7
(4.9)	1.5 +3.4		7.0 2.2
(9.45)	1.5 +3.4	(4.8)	8.1 3.9

SOUND WEST

DIST	SOUND	DIST	SOUND
0+10	3.7 +1.2	2+00	9.5 5.7
(9.52)	3.5 +1.4		9.0 4.2
(4.9)	3.6 +1.3		10.3 5.5
	3.8 +1.1		10.2 5.4
+50	3.8 +1.1		9.8 5.0
	3.5 +1.4	+50	9.1 4.3
	3.5 +		8.8 4.0
	3.5 +		7.5 2.7
	3.5 +		6.7 1.9
1+00	3.5 +1.4		6.5 1.7
	3.1 +1.5	3+00	6.1 1.3
	3.4 +1.5		5.5 0.7
	3.4 +1.5		5.1 0.3

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STA 112+00 SOUND WEST

DIST	SOUND	DIST	SOUND
3+30	4.9 0.1	5+20	3.8 +0.9
(4.8)	4.2 +0.6	(10:09)	3.8 +0.9
+50	4.0 +0.8	(4.7)	3.7 +1.0
	3.8 +1.0	+50	3.5 +1.2
	4.0 +0.8		3.5 +1.2
	3.8 +1.0		3.5 +1.2
	3.8 +1.0		3.4 +1.3
4+00	3.8 +1.0		3.4 +1.3
(4.7)	3.7 +1.0	6+00	3.5 +1.2
	3.7 +1.0		3.5 +1.2
	3.7 +1.0		3.5 +1.2
	3.9 +0.8		3.6 +1.1
+50	3.8 +0.9		3.5 +1.2
	3.8 +	+50	3.5 +1.2
	3.8 +		3.4 +1.3
	3.8 +		3.4 +1.3
	3.8 +0.9		3.3 +1.4
5+00	3.7 +1.0		3.4 +1.3
	3.8 +0.9	7+00	3.2 +1.5

(15)

PX



3-21-51  
 PX STA 11200 SOUND WEST

DIST	SOUND	
7+10	3.1	+1.6
(4.7)	3.1	+1.6
	3.0	+1.7
	2.8	+1.9
+50	2.8	+1.9
	2.2	+2.5
	1.8	+2.9

8+00

3-21-51  
 SOUND EAST

PX (16)

STA 113+00-0+00 = 14000 W

DIST	SOUND		DIST	SOUND	
0+00	3.5	+0.9	1+80	3.0	+1.4
(10.25)	3.4	+1.0	(4.4)	3.0	+1.4
(4.4)	3.2	+1.2	2+00	3.6	+0.8
	3.2	+1.2		3.5	+0.9
	3.0	+1.4		3.1	+1.3
+50	2.0	+1.4		3.1	+1.3
	3.0	+1.4		2.8	+1.6
	3.1	+1.3	+50	2.8	+1.6
	3.1	+1.3		2.8	+1.6
	3.1	+1.3		2.7	+1.7
+00	3.1	+1.3		2.7	+1.7
	2.9	+1.5		2.7	+1.7
	2.9	+1.5	3+00	2.7	+1.7
	2.9	+1.6		2.5	+1.9
	3.0	+1.4		2.5	+1.9
+50	3.0	+1.4	(4.3)	2.5	+1.9
	3.1	+1.3	(10.30)	2.5	+1.9
	3.1	+1.3		2.5	+1.9
	3.1	+1.3	+50	2.5	+1.9



PX 3-21-51						3-21-51 (17)						
STA 113+00			SOUND EAST			STA 113+00			SOUND EAST			
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND		
	3+60	2.5	+1.8	5+50	3.0	+1.3	7+40	14.4	10.2	2+30	13.2	9.0
(4.3)	2.6	+1.7	(4.3)	3.0	+1.3	+50	14.0	9.8	(4.2)	13.2	9.0	
	2.7	+1.6		3.0	+	(10.35)	14.5	10.3	+50	12.5	8.3	
	2.8	+1.5		3.0	+	(4.2)	15.3	11.1		10.0	5.8	
	4+00	2.9	+1.4		3.0	+	15.2	11.0		9.7	5.5	
		3.1	+1.2	6+00	3.0	+1.3	15.1	10.9		8.4	4.2	
		3.5	+1.8		3.1	+1.2	8+00	14.5	10.3		8.2	4.0
		3.6	+1.7		3.7	+0.6	14.0	9.8	10+00	8.2	4.0	
		4.0	+0.3		4.3	0.0	14.2	10.0		8.1	3.9	
	+50	4.4	+0.1		4.7	-0.4	13.8	9.6		7.8	3.6	
		4.1	+0.2	+50	5.0	0.7	13.4	9.2		7.8	3.6	
		4.1	+0.2		5.3	1.0	+50	13.2	9.0		7.5	3.3
		3.7	+0.6		5.3	1.0	13.1	8.9	+50	7.3	3.1	
		3.5	+0.8		6.5	2.2	13.2	9.0		7.0	2.8	
	5+00	3.5	+0.8		6.8	2.5	13.0	8.8		6.7	2.5	
		3.3	+1.0	7+00	9.1	4.8	13.0	8.8		6.7	2.5	
		3.0	+1.3		10.5	6.2	9+00	13.1	8.9		6.5	2.3
		3.0	+1.3		11.0	6.7	13.2	9.0	11+00	6.2	2.0	
		3.0	+1.3		13.8	9.5	13.4	9.2		5.8	1.6	



PX

3-21-51

STA 113+00

SOUND EAST

DIST	SOUND		DIST	SOUND	
11+20	5.0	0.9	13+10	1.6	+2.6
(10:40)	4.5	0.4		1.6	+2.6
(4.1)	3.8	+0.3		1.5	+2.6
+50	3.5	+0.6		1.5	+2.6
	2.8	+1.3	+50	1.4	+2.7
	2.6	+1.5		1.4	+2.7
	2.6	+1.5	(4.1)	1.4	+2.7
	2.0	+2.1	(10:45)	1.3	+2.8
12+00	2.0	+	<u>SOUND WEST</u>		
	2.0	+	0+10	3.2	+0.8
	2.0	+2.1	(10:50)	3.4	+0.6
	1.8	+2.3	(4.0)	3.4	+0.6
	1.8	+2.3		3.3	+0.7
+50	1.8	+2.3	+50	3.3	+0.7
	1.7	+2.4		3.2	+0.8
	1.8	+2.3		3.3	+0.7
	1.8	+2.3		3.5	+0.5
	1.7	+2.4		3.4	+0.6
13+00	1.7	+2.4	1+00	3.2	+0.8

3-21-51

PX (18)

STA 113+00

SOUND WEST

DIST	SOUND		DIST	SOUND	
1+10	3.1	+0.8	3+00	2.0	5.1
(3.9)	3.0	+0.9		8.8	4.9
	2.8	+1.1	(3.9)	8.4	4.5
	2.7	+1.2	(10:55)	7.0	3.1
+50	2.6	+1.3		6.5	2.6
	2.6	+1.3	+50	6.0	2.1
	2.6	+1.3		5.7	1.8
	2.5	+1.4		5.4	1.5
	2.5	+1.4		5.4	1.5
2+00	2.7	+1.2		4.8	0.9
	3.3	+0.6	4+00	4.6	0.7
	4.8	0.9		4.2	0.3
	5.8	1.9		3.8	+0.1
	7.0	3.1		3.5	+0.4
+50	7.7	3.8		3.2	+0.7
	8.3	4.4	+50	3.1	+0.8
	8.7	4.8		3.1	+0.8
	8.8	4.9		3.1	+0.8
	8.9	5.0		3.0	+0.9



3-21-51

PX

STA 113+00

SOUND WEST

DIST	SOUND		DIST	SOUND
(3.8)	3.2	+0.6	6+80	2.6 +1.2
4+20	3.1	+0.7	(3.8)	2.5 +1.3
5+00	2.9	+0.9	7+00	2.1 +1.1
	2.9	+0.9		2.0 +1.8
	2.9	+0.9		1.5 +2.3
	3.0	+0.8		1.5 +2.3
+50	2.9	+0.9		
	3.0	+0.8	+50	
	2.8	+1.0		
	2.8	+		
	2.8	+		
6+00	2.8	+		
	2.8	+	8+00	
	2.8	+		
(3.8)	2.8	+		
(11:00)	2.8	+1.0		
+50	2.7	+1.1		
	2.7	+1.1	+50	
	2.7	+1.1		

3-21-51

(19)

SOUND EAST

PX

STA 114+00 - 0+00 = 14,000 W

DIST	SOUND		DIST	SOUND
0+00	3.1	+0.5	14+00	2.0 +1.6
	3.1	+0.5	(3.6)	2.0 +
(11:13)	2.7	+0.9	2+00	2.0 +
(3.6)	2.9	+0.8		2.0 +
	2.8	+0.8		2.0 +
+50	2.5	+1.1		2.0 +
	2.5	+1.1		2.0 +
	2.5	+1.1	+50	2.0 +
	2.4	+1.2		2.0 +
	2.4	+1.2		2.0 +1.6
1+00	2.5	+1.1		1.9 +1.7
	2.5	+1.1		2.0 +1.6
	2.5	+	3+00	2.4 +1.2
	2.5	+		2.6 +1.0
	2.5	+1.1		3.1 +0.5
+50	2.3	+1.3		3.4 +0.2
(11:15)	2.0	+1.6		3.5 +0.1
(3.6)	2.0	+1.6	+50	3.0 +0.6



PX

3-21-51

STA 119+00

SOUND EAST

DIST	SOUND		DIST	SOUND	
3+60	3.1	+0.4	5+50	2.0	+1.5
(3.5)	3.4	+0.1	(3.5)	1.9	+1.6
	3.6	+0.1		1.9	+
	3.4	+0.1		1.9	+
4+00	3.4	+0.1		1.9	+
	3.4	+0.1	6+00	1.9	+
	3.0	+0.5		1.9	+
	2.7	+0.8		1.9	+
	2.7	+		1.9	+1.6
+50	2.7	+		2.0	+1.5
	2.7	+0.8	+50	2.0	+1.5
	2.6	+0.9	(11:20)	2.0	+1.5
	2.7	+0.8	(3.5)	2.4	+1.1
	3.2	+0.3		5.0	1.5
5+00	2.5	+1.0		8.7	5.2
	2.0	+1.5	7+00	11.0	7.5
	2.0	+		12.0	8.5
	2.0	+		14.0	10.5
	2.0	+1.5		15.1	11.6

3-21-51

STA 119+00

SOUND EAST

(20)

PX

DIST	SOUND		DIST	SOUND	
7+90	14.8	11.3	9+30	7.2	3.8
+50	14.7	11.2	(3.4)	5.3	1.9
(3.5)	14.5	11.0	+50	5.0	1.6
	14.4	10.9		5.5	2.1
	14.1	10.6		5.5	2.1
	14.0	10.5		6.0	2.6
8+00	13.2	9.6		6.0	2.6
	12.5	9.0	10+00	6.0	2.6
(3.4)	12.2	8.8		5.8	2.4
	12.0	8.6		6.0	2.6
	11.5	8.1		5.8	2.4
+50	11.0	7.6		6.0	2.6
	11.5	8.1	+50	6.1	2.7
	12.5	9.1	(3.4)	6.1	2.7
	12.4	9.0	(11:25)	6.4	3.0
	12.5	9.1		6.5	3.1
9+00	12.3	8.9		6.7	3.3
	11.7	8.3	11+00	7.0	3.6
	10.3	6.9		7.0	3.6



PX

STA 119+00 3-21-51

SOUND EAST

SOUND WEST

DIST SOUND

DIST SOUND

11+20 7.0 3.7

0+10 3.0 +0.2

(3.3) 7.0

(11:35) 2.6 +0.6

7.0

(3.2) 2.7 +0.5

+50 7.0 3.7

2.7 +

6.8 3.5

+50 2.7 +

6.7 3.4

2.7 +0.5

6.7 3.4

2.8 +0.4

6.6 3.3

2.8 +0.4

12+00 6.5 3.2

2.7 +0.5

6.4 3.1

1+00 2.6 +0.6

6.0 2.7

2.9 +0.3

5.5 2.2

2.9 +0.3

5.1 1.8

2.8 +0.4

+50 4.7 1.4

2.6 +0.6

3.1 +0.2

+50 2.5 +0.7

2.6 +0.7

2.1 +1.1

(3.3)

1.8 +1.5

2.0 +1.2

(11:30)

1.5 +1.8

2.0 +1.2

13+00

1.9 +1.3

3-21-51

(21)

STA 119+00

SOUND WEST

PX

DIST SOUND

DIST SOUND

2+00 1.9 +1.2

3+50 7.2 4.1

(3.1) 1.8 +1.3

4+00 6.8 3.7E

1.7 +1.4

6.1 3.0

1.6 +1.5

(11:40) 5.8 2.7

2.0 +1.1

(3.1) 5.0 1.9

+50 2.0 +1.1

5.0 1.9

2.8 +0.3

+50 4.4 1.3

4.0 0.9

4.0 0.9

5.4 2.3

3.6 0.5

6.0 2.9

3.5 0.4

3+00 6.5 3.4

3.5 0.4

6.7 3.6

5+00 3.1 0.0

7.0 3.9

2.9 +0.2

7.2 4.1

2.8 +0.3

7.1 4.0

2.7 +0.4

+50 7.1 4.0

2.7 +0.4

6.9 3.7

+50 2.5 +0.6

6.7 3.6

2.5 +0.6

6.8 3.7

2.4 +0.7



R<sup>+</sup> STA

119+00

SOUND WEST

3-21-51

DIST SOUND

5+80 2.4 +0.6

(3.0) 2.3 +0.7

6+00 2.3 +0.7

2.3 +0.7

2.3 +0.7

2.2 +0.8

2.1 +0.9

+50 2.1 +0.9

2.1 +0.9

1.9 +1.1

(3.0) 1.7 +1.3

(11:42) 1.4 +1.6

7+00

3-22-51

(22)

SOUND EAST

STA 115+00 - 0+00 = 1400 W

DIST SOUND DIST SOUND

4+00 5.4 +0.2 1+80 4.4 +1.2

(8:30) 5.2 +0.4 (5.6) 4.2 +1.4

(5.6) 5.4 +0.2 2+00 4.4 +1.2

5.7 -0.1 4.6 +1.0

5.8 -0.2 4.7 +0.9

+50 5.7 0.1 4.7 +0.9

6.0 0.4 4.8 +0.8

5.8 0.2 +50 5.2 +0.4

6.0 0.4 5.4 +0.2

5.9 0.3 5.3 +0.3

1700 5.8 0.2 5.1 +0.5

5.6 0.0 5.0 +0.6

5.5 +0.1 3+00 5.5 +0.1

5.7 0.1 5.7 0.1

5.5 +0.1 5.5 +0.1

+50 5.1 +0.5 5.4 +0.2

4.7 +0.9 5.4 +0.2

4.7 +0.9 +50 5.4 +0.2



PT

3-22-51

STA 115+00

SOUND EAST

STA 115+00

SOUND EAST

(23)

PT

DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
3+60	5.3	+0.3	5+50	4.1	+1.5	7+40	16.0	10.4	9+30	4.9	+0.8
	5.0	+0.6		4.1		+50	16.5	10.9		5.5	+0.2
6	5.1	+0.5	(5.6)	4.1			16.4	10.8	+50	6.5	0.8
	5.1	+0.5		4.1		(5.6)	15.6	10.0		7.2	1.5
4+00	5.2	+0.4		4.1		(5.7)	15.4	9.7		7.3	1.6
	4.8	+0.8	6+00	4.1			15.0	9.3		7.4	1.7
	4.7	+0.9		4.1	+1.5	8+00	14.4	8.7		7.4	1.7
	4.5	+1.1		4.3	+1.3		14.4	8.7	10+00	7.2	1.5
	4.5	+1.1		4.7	+0.9		14.1	8.4	(5.7)	7.1	1.4
+50	4.7	+0.9		6.4	0.8		14.0	8.3	(8.40)	6.9	1.2
	4.5	+1.1	+50	7.0	1.5		14.0	8.3		6.5	0.8
	4.6	+1.0		12.8	7.5	+50	14.5	8.8		6.3	0.6
	4.5	+1.1		13.8	8.5		14.5	8.8	+50	6.0	0.3
	4.5	+1.1		13.6	8.5		14.2	8.5		6.1	0.4
5+00	4.2	+1.4		13.6	8.0		12.4	6.7		6.1	0.4
	4.4	+1.2	7+00	13.8	8.2		11.0	5.3		6.4	0.7
(5.6)	4.4	+1.2		13.8	8.2	9+00	7.8	2.1		7.2	1.5
(8.35)	4.2	+1.4		14.6	9.0		5.5	+0.2	11+00	7.5	1.8
	4.2	+1.4		15.4	9.8		4.7	+1.0		7.5	1.8



PX

3-22-51

3-22-51

(24)

STA 115+00

SOUND EAST

STA 115+00  
SOUND EAST

SOUND WEST

PX

DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND
11+20	8.0	2.3	13+10	10.1	4.4	15+00	2.6 +3.1
(5.7)	8.5	2.8	(5.7)	9.8	4.1		2.5 +3.2
	9.0	3.3		9.8	4.1		2.3 +3.4
+50	9.0	}		9.4	3.7		2.0 +3.7
	9.0	3.3	+50	9.0	3.3		1.8 +3.9
	9.5	3.8		7.9	2.1	+50	1.7 +4.0
	10.0	4.3		6.6	0.9		1.5 +4.2
	10.0	4.3		5.1	+0.6	(5.7)	1.4 +4.3
12+00	10.7	4.4		4.7	+1.0	(5.7)	1.2 +4.5
	10.3	4.6	14+00	4.2	+1.5	<u>SOUND WEST</u>	
	10.2	4.5		3.5	+2.0	+1.0	5.4 +0.3
	10.4	4.7		3.1	+2.6	(5.5)	5.8 0.1
	10.5	4.8		3.1	+	(5.7)	5.5 +0.2
+50	10.7	5.0		3.1			5.5 }
	11.0	5.3	+50	3.1	+2.6	+50	5.5 }
	10.8	5.1		2.8	+2.9		5.5 +0.2
	10.6	4.9		2.6	+3.1		5.7 0.0
	10.4	4.7		2.7	+3.0		5.7 0.0
13+00	10.4	4.7		2.5	+3.2		5.6 +0.1







PX

3-22-51

SOUND EAST

STA 116+00 - 0+00 = 14,000 W

DIST SOUND DIST SOUND

0+00 5.6 +0.2 1+80 5.4 +0.4

(9.05) 5.5 +0.3 (5.8) 5.3 +0.5

(5.8) 5.5 +0.3 2+00 5.0 +0.8

5.7 +0.1 5.0 +0.8

5.8 0.0 5.0 +0.8

+50 5.8 0.0 4.9 +0.9

5.9 -0.1 4.9 +0.9

5.7 +0.1 +50 5.1 +0.7

5.9 -0.1 5.2 +0.8

5.6 +0.2 (9.10) 5.2 +0.8

1+00 6.0 -0.2 (5.8) 5.2 +0.8

5.6 +0.2 5.3 +0.8

6.0 -0.2 3+00 5.2 +0.6

5.8 0.0 5.1 +0.7

5.8 0.0 5.1 +0.7

+50 5.9 -0.1 5.0 +0.8

5.9 -0.1 4.8 +1.0

5.4 +0.4 +50 4.9 +0.9

3-22-51

STA 116+00 SOUND EAST

DIST SOUND DIST SOUND

3+60 5.0 +0.8 5+50 4.7 +1.1

5.1 +0.7 4.8 +1.0

(5.8) 5.1 +0.7 4.9 +0.9

5.2 +0.6 5.5 +0.8

4+00 5.0 +0.8 5.9 -0.1

5.0 + 6+00 8.0 -2.2

5.0 + 11.3 5.5

5.0 + 12.8 7.0

5.0 + (9.15) 14.0 8.2

+50 5.0 + (5.8) 14.5 8.7

5.0 + +50 14.5 8.7

5.0 +0.8 14.5 8.7

5.9 +0.4 14.4 8.6

5.2 +0.6 14.2 8.4

5+00 5.5 +0.3 14.2 8.4

4.7 +1.1 7+00 14.4 8.6

4.7 +1.1 14.8 9.0

4.6 +1.2 14.5 8.7

4.7 +1.1 14.1 8.3

(26)

PX



PX

3-22-51

STA 116+00

SOUND EAST

DIST SOUND

7+40 14.5 8.7 9+30 5.1 +0.7

+50 14.8 9.0 4.0 +1.0

(5.8) 15.0 9.2 +50 3.5 +2.3

15.0 9.2 3.4 +2.4

14.7 8.9 (5.8) 3.4 +2.4

14.5 8.7 3.3 +2.5

8+00 14.0 8.2 3.3 +1.0

13.1 7.3 10+00 3.3 +1.0

12.4 6.6 3.3 +2.5

12.0 6.2 3.4 +2.4

12.0 6.2 4.0 +1.5

+50 11.0 5.2 5.0 +1.5

8.1 2.3 +50 5.5 +0.3

6.0 0.2 6.0 -0.5

6.0 } 6.5 0.7

6.0 } 6.9 1.1

9+00 6.0 0.2 7.1 1.3

5.8 0.0 11+00 7.1 1.3

5.4 +0.4 7.3 1.5

3-22-51

STA 116+00

SOUND EAST

DIST SOUND

11+20 7.1 1.3 13+10 5.4 3.6

7.1 1.3 10.1 4.3

7.0 1.2 (5.8) 11.0 5.2

+50 6.5 0.7 11.4 5.6

6.0 0.2 +50 11.5 5.7

(9:20) 6.0 0.2 12.0 6.2

(5.8) 5.5 +0.3 12.5 6.7

5.5 +0.3 12.9 7.1

12+00 5.3 +0.5 12.5 6.7

5.1 +0.7 14+00 12.8 7.0

4.8 +1.0 13.0 7.2

4.8 +1.0 13.1 7.3

4.7 +1.1 12.8 7.0

+50 4.6 +1.2 11.8 6.0

4.6 +1.2 +50 10.5 4.7

5.3 +0.5 9.5 3.7

6.4 -0.6 8.3 2.5

7.1 1.3 5.5 +0.3

13+00 8.5 2.7 4.7 +1.1

(27)

PX



PX

STA 116+00

3-22-51

SOUND EAST

SOUND WEST

DIST SOUND

DIST SOUND

15+00 4.2 +1.6

0+60 5.5 +0.2

(5.8)

3.4 +2.4

(5.7) 5.5

3.1 +2.7

5.5

2.9 +2.9

5.5

2.3 +3.5 1+00

5.5

+50 2.1 +3.7

5.5 +0.2

2.0 +3.8

5.4 +0.3

2.0 +3.8

5.4 +1.1

2.0 +3.8

5.4 +1.1

1.7 +4.1 +50

5.4 +1.1

16+00 1.5 +4.3

5.4 +0.3 +50

(5.8)

1.4 +4.4

5.5 +0.2

(9.25)

1.3 +4.3

5.5 +0.2

SOUND WEST

0+10 5.5 +0.2

2+00 5.2 +0.5

(9:33)

5.5 +1.1

(9:35)

5.0 +0.7

(5.7)

5.5 +1.1

(5.7)

4.8 +0.9

5.5 +1.1

4.4 +1.3

+50 5.5 +0.2

4.2 +1.3

3-22-51

(28)

STA 116+00

SOUND WEST

DIST SOUND

DIST SOUND

2+50 4.1 +1.6 4+40 9.8

4.1

4.1 +1.6 +50 9.7

4.0

(5.7) 4.1 +1.6 (5.7) 9.7

4.5 +1.2 9.7

4.5 +1.2 9.7

4.0

+50 3+00 4.7 +1.0 9.3

3.6

5.0 +0.7 5+00 9.5

3.8

5.2 +0.5 9.0

3.3

5.4 +0.3 8.2

2.5

5.4 +0.3 7.7

2.0

+50 5.4 +0.3 7.5

1.8

5.8 -0.1 +50 6.8

1.1

6.5 0.8 6.8

1.1

6.0 0.3 6.4

0.7

7.1 1.4 6.1

0.4

4+00 9.7 4.0 5.7

0.0

9.3 3.6 6+00 5.1

+0.6

9.7 4.0 5.0

+0.7

10.0 4.3 4.8

+0.9



PX  
 STA 116+00 3-22-51 SOUND WEST

DIST	SOUND	DIST	SOUND
6+30	4.7	+1.0	
9:40	4.4	+1.3	
5.7	4.0	+1.7	
+50	3.7	+2.0	
	3.3	+2.4	
	3.0	+2.7	
	2.4	+3.3	
7+00	1.7	+4.0	
	1.3	+4.4	

+50

8+00

(29)  
 SOUND EAST

PX

STA 117+00 0+00 = 14.000 W

DIST	SOUND	DIST	SOUND
0+00	5.5	0.0	1+80 4.7 +0.8
9:55	5.5	0.0	5.5 5.0 +0.5
5.5	5.3	+0.2	2+00 5.0 +0.5
	5.1	+0.4	5.5 +0.0
	5.4	+0.1	5.6 -0.1
+50	5.4	+0.1	5.5 0.0
	5.2	+0.3	5.8 -0.3
	5.4	+0.1	+50 5.5 0.0
	5.3	+0.2	5.0 +0.5
	5.3	+0.2	5.0 +0.5
1+00	5.4	+0.1	4.9 +0.6
	5.4	+0.1	4.9 +0.6
	5.1	+0.4	3+00 4.8 +0.7
	5.1	+0.4	4.5 +1.0
	4.9	+0.6	4.4 +1.1
+50	5.0	+0.5	4.3 +1.2
	5.3	+0.2	4.0 +1.5
	4.9	+0.6	+50 4.0 +1.5



PX

3-22-51

STA 117+00

SOUND EAST

3-22-51

STA 117+00

SOUND EAST

(30)

PX

DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
3+60	4.1	+1.3	5+50	8.2	2.8	7+40	13.5	8.1	9+30	3.4	+2.0
(5.4)	4.3	+1.1	(5.4)	9.8	4.4	+50	13.2	7.8	(5.4)	3.8	+1.6
	4.3	+1.1	(10:00)	12.0	6.6	(5.4)	13.8	8.4	+50	4.5	+0.9
	4.2	+1.2		13.4	8.0		13.0	7.6		5.4	+0.0
4+00	4.1	+1.3		13.6	8.2		12.1	6.7		5.4	+0.0
	4.0	+1.4	6+00	13.6	8.2		11.4	6.0		5.3	+0.1
	4.0	+1.4		13.6	8.2	8+00	9.2	3.8		5.3	+0.1
	4.1	+1.3		13.6	8.2		5.0	+0.4	10+00	5.3	+0.1
	4.0	+1.4		13.5	8.1		3.8	+1.6		5.1	+0.3
+50	4.0	+1.4		13.8	8.4		2.8	+2.6	(10:05)	5.1	+0.3
	4.0	+1.4	+50	13.8	8.4		2.3	+3.1	(5.4)	4.7	+0.7
	4.5	+0.9		13.5	8.1	+50	2.3	+3.1		4.1	+0.3
	5.0	+0.4		13.2	7.8		2.5	+2.9	+50	3.7	+1.7
	5.0	+0.4		13.0	7.6		2.5	+2.9		3.5	+1.9
5+00	4.8	+0.6		13.2	7.8		2.5	+2.9		3.5	+1.9
	4.8	+0.6	7+00	13.2	7.8		2.6	+2.8		3.3	+2.1
	5.1	+0.3		14.0	8.6	9+00	2.4	+3.0		3.1	+2.3
	6.1	-0.7		14.4	9.0		2.5	+2.9	11+00	3.0	+2.4
	6.9	1.5		13.5	8.1		2.7	+2.7		2.9	+2.5



PX STA 117+00

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SOUND EAST

DIST SOUND DIST SOUND

11+20 2.9 +2.5 13+10 4.5 +0.8

(5.4) 3.0 +2.4 (5.3) 4.0 +1.3

2.9 +2.5 4.0 +1.3

+57 2.9 +2.5 3.5 +1.6

3.0 +2.4 +50 3.5 +1.9

3.2 +2.2 3.5 +1.9

3.8 +1.6 3.4 +1.9

4.0 +1.4 3.4 +1.9

12+00 4.5 +0.9 3.4 +1.9

4.9 +0.5 14+00 3.3 +2.0

5.5 0.1 3.5 +1.9

6.0 0.6 4.5 +0.8

6.1 0.7 6.4 1.1

+50 6.0 0.6 8.8 3.5

5 6.0 0.6 +50 10.0 4.7

6.0 0.6 11.2 5.9

5.7 0.3 12.0 6.7

5.2 +0.2 12.5 7.3

13+00 4.7 +0.7 12.5 7.3

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STA 117+00

SOUND EAST

DIST SOUND

SOUND WEST PX

DIST SOUND

15+00 12.5 7.2 0+50 5.1 +0.1

(5.3) 12.0 6.7 (5.2) 5.1 +0.1

(10:10) 11.5 6.2 5.1 +0.1

11.1 5.8 5.1 +0.1

10.7 5.4 5.0 +0.2

+50 10.0 4.7 1+00 5.0 +

9.7 3.4 5.0 +

7.7 1.9 5.0 +0.2

5.8 0.5 5.1 +0.1

4.4 +0.9 5.1 +0.1

14+00 3.4 +1.9 +50 5.0 +0.2

3.5 +1.8 5.0 +0.2

3.3 +2.0 4.9 +0.3

1.4 +3.9 4.9 +0.3

5.0 +0.2

0+10 5.3 0.0 2+00 5.0 +0.2

(10:18) 5.1 +0.1 4.7 +0.5

(5.2) 5.2 +0.0 (10:20) 5.2 0.0

(5.2) 4.5 +0.7







PX

3-22-51

SOUND EAST

STA 118+00 0+00 = 14000 W

DIST SOUND DIST SOUND

0+00 4.6 +0.4 1+80 3.8 +1.2

(10:35) 4.8 +0.2 3.8 +1.2

(5.0) 4.8 +0.2 2+00 3.9 +1.1

4.8 +0.2 (5.0) 4.0 +1.0

5.5 0.5 4.1 +0.8

+50 5.1 0.1 4.0 +1.0

4.4 +0.6 3.9 +1.1

4.8 +0.2 +50 3.8 +1.2

4.5 +0.5 3.8 +1.2

4.4 +0.6 3.7 +1.1

1+00 4.2 +0.8 3.7 +1.0

3.8 +1.2 3.7 +1.0

3.8 +1.2 3+00 4.5 +0.5

3.9 +1.1 4.7 +0.5

3.9 +1.1 (4.9) 4.7 +0.5

+50 3.8 +1.2 4.8 +0.5

3.8 +1.2 4.8 +0.5

3.9 +1.1 +50 4.4 +0.5

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STA 118+00

SOUND EAST

DIST SOUND DIST SOUND

3+60 4.1 +0.8 5+50 12.5 7.6

(4.9) 4.1 +0.8 (4.9) 12.8 7.9

3.9 +1.0 13.0 4.1

4.0 +0.9 (4.9) 12.8 7.9

4+00 4.0 +0.9 (10:40) 12.8 7.9

4.4 +0.5 6+00 12.9 8.0

4.5 +0.4 12.9 8.0

5.0 0.1 13.0 8.1

5.0 0.1 13.0 8.1

+50 5.0 0.1 13.3 8.4

6.3 1.4 +50 12.9 8.1

7.0 2.1 13.1 8.2

7.2 2.3 13.3 8.4

8.0 3.1 13.2 8.3

5+00 7.8 2.9 13.7 8.8

8.0 3.1 7+00 13.1 8.2

9.5 4.6 13.0 8.1

10.8 5.9 12.4 7.5

12.2 7.3 12.0 7.1

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PX







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SFX 118+00 SOUND WEST

DIST	SOUND	DIST	SOUND
2+60	7.5 +0.1	450	7.4 2.8
(4.6)	4.5 +0.1		8.0 3.4
	4.5 +0.1	(4.6)	8.6 4.0
	4.3 +0.3		8.8 4.2
3+00	3.9 +0.7		9.0 4.4
	3.9 +0.7	5+00	9.6 5.0
	3.9 +0.7		9.5 4.9
	3.9 +0.7		9.6 5.0
	4.0 +0.6		9.1 4.5
+50	4.0 +0.6		9.0 4.4
	4.1 +0.5	+50	8.6 4.0
	4.1 +0.5		7.8 3.2
	4.3 +0.3		6.7 2.1
	4.4 +0.2		5.5 0.9
4+00	4.8 0.2		3.5 +1.1
(4.6)	4.8 0.2	6+00	3.1 +1.5
(11:00)	4.8 0.2		2.4 +2.2
	5.9 1.3		2.4 +2.2
	7.0 2.4		2.1 +2.5
			1.6 +3.0

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SOUND WEST

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STA 118+00 0+00 = 1180.00 W			
DIST	SOUND	DIST	SOUND
0+00	4.0 +0.4	1+80	4.2 +0.2
(11:00)	4.0 +	(4.4)	4.1 +0.3
(4.4)	4.0 +	2+00	4.1 +0.3
	4.0 +0.4		4.0 +0.4
	4.1 +0.3		4.1 +0.3
+50	4.2 +0.2		4.3 +0.1
	4.2 +		4.2 +0.2
	4.2 +	+50	3.7 +0.7
	4.2 +0.2	(4.3)	3.7 +
	4.4 0.0		3.7 +
	4.4 0.0		3.7 +0.7
	4.4 0.0		3.9 +0.5
	4.6 0.2	3+00	4.0 +0.4
	5.5 0.9		3.9 +0.5
	4.5 0.9		4.0 +0.4
+50	4.4 0.0		4.1 +0.3
	4.3 +0.1		4.1 +0.3
	4.3 +0.1	+50	4.1 +0.3



PX

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STA 119+00 SOUND WEST

DIST	SOUND	DIST	SOUND	
3+60	4.1	+0.2	5+50 8.6	
	4.1	+0.2	(4.3) 7.5	
(11:15)	4.3	0.0	5.5 1.2	
(4.3)	4.8	0.5	3.6 +0.7	
4+00	4.8	0.5	2.0 +2.3	
	4.8	0.5	6+00 1.3 +3.0	
	6.0	1.7	SOUND EAST 3-23-51	
	7.1	2.4	0+00	
	7.1	2.4	+10	5.1 +0.4
+50	7.4	3.1	(9:47)	5.1 +0.4
	7.8	3.5	(5.5)	4.8 +0.7
	8.1	3.8		4.7 +0.8
	8.6	4.3	+50	4.7 +0.8
	8.8	4.5		4.6 +0.9
5+00	9.2	4.9		4.5 +1.0
	9.6	4.7		4.7 +0.4
	9.1	4.8		4.8 +0.7
	9.1	4.8	1+00	4.5 +1.0
	9.0	4.7		4.4 +1.1

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STA 119+00 SOUND EAST

PX

DIST	SOUND	DIST	SOUND
1+20	4.3	+1.2	3+10 4.5 +1.0
	(5.5)	4.4	+1.1 (5.5) 5.3 +0.2
	4.5	+1.0	(9:50) 5.7 0.2
+50	4.5	+1.0	5.7 0.2
	4.3	+1.2	+50 6.2 0.7
	4.3	+1.2	7.2 1.7
	4.4	+1.1	8.0 2.5
	4.3	+1.2	7.7 2.2
	4.0	+1.5	7.7 2.2
	4.1	+1.4	4+00 7.5 2.0
	4.4	+1.1	7.0 1.5
	4.1	+1.4	6.4 0.9
	4.2	+1.3	5.3 +0.2
+50	4.5	+1.0	5.5 0.0
	4.3	+1.2	+50 5.5 0.0
	4.2	+1.3	6.1 0.6
	4.1	+1.4	7.8 2.3
	4.1	+1.4	11.0 5.5
3+00	4.3	+1.2	+50 12.5 7.0



PX

3-23-51  
SOUND EAST

DIST	SOUND	DIST	SOUND
5+00	13.4	7.9	6+50 13.1 7.6
(5.5)	14.1	8.6	7+00 12.5 7.0
	14.0	8.5	(5.5) 11.0 5.5
	14.0	8.5	(9.55) 6.3 0.8
	14.1	8.6	4.5 +1.0
+50	13.7	8.2	3.2 +2.3
	13.5	8.0	+50 2.5 +3.0
	13.8	8.3	2.4 +3.1
	14.0	8.5	2.3 +3.2
	13.7	8.2	2.3 +3.2
6+00	13.7	8.2	2.4 +3.1
	13.9	8.4	8+00 2.2 +3.2
	14.5	9.0	2.4 +3.1
	14.5	9.0	2.4 +3.1
	14.7	9.2	2.4 +3.1
+50	14.6	9.1	2.3 +2.2
	14.5	9.0	+50 2.3 +2.2
	14.6	9.1	2.3 +2.2
	14.0	8.5	2.3 +2.2

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STA 119+00 SOUND EAST

DIST	SOUND	DIST	SOUND
8+80	2.5	+3.0	10+70 2.9 +2.5
(5.5)	2.5	+3.0	(5.4) 3.4 +2.0
9+00	2.5	+3.0	3.5 +1.9
	2.5	+3.0	11+00 3.4 +2.0
	2.7	+2.8	3.5 +1.9
	2.6	+2.9	3.5 +
	2.8	+2.7	3.5 +
+50	2.7	+2.8	3.5 +
	2.7	+2.8	+50 3.5 +1.9
	3.0	+2.5	3.6 +1.8
	3.0	+2.5	3.6 +1.8
	3.0	+2.5	(5.4) 3.5 +1.9
10+00	2.8	+2.7	(10:00) 3.5 +1.9
	2.8	+	12+00 3.3 +2.1
	2.8	+	3.1 +2.3
	2.8	+	2.8 +2.6
	2.8	+	2.2 +3.2
+50	2.8	+2.7	1.8 +3.6
	2.9	+2.6	+50 1.4 +4.0



STA 119+00

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SOUND EAST

DIST	SOUND	DIST	SOUND
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12+60

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SOUND EAST

PX

STA 122+00 - 0+00 = 14000 W

DIST	SOUND	DIST	SOUND
------	-------	------	-------

0+00 4.3 +0.6 1+80 4.5 +0.4

(8.25) 4.5 +0.4 (4.9) 4.0 +0.9

(4.9) 4.7 +0.2 2+00 3.7 +1.2

4.7 +0.2 3.2 +1.7

4.5 +0.4 2.9 +2.0

+50 4.8 +0.1 2.8 +2.1

4.6 +0.3 2.7 +2.2

4.6 +0.3 +50 2.7 +2.2

5.3 0.4 2.6 +2.3

5.0 0.1 2.5 +2.4

+50 5.1 0.2 2.5 +2.4

6.1 1.2 2.2 +2.7

7.2 2.3 3+00 2.3 +2.6

6.8 1.9 2.1 +2.8

6.4 1.5 2.8 +2.1

+50 5.4 0.5 4.6 +0.3

5.0 0.1 8.0 3.1

4.8 +0.1 +50 11.4 6.5



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STA 122+00 SOUND EAST

DIST	SOUND	DIST	SOUND
3+60	12.5	7.5	5+50 13.0
5.0	13.0	8.0	12.5
	13.1	8.1	(5.0) 11.7
	13.3	8.3	(8:30) 9.0
4+00	13.5	8.5	5.2
	13.5	8.5	6+00 4.5
	13.5	8.5	4.5
	13.5	8.5	4.4
	13.5		4.3
+50	13.5		4.1
	13.5	8.5	+50 4.2
	13.4	8.4	4.0
	13.4	8.4	3.8
	13.4	8.4	3.7
5+00	13.0	8.0	3.7
	13.0		7+00 3.7
	13.0		3.7
	13.0		3.9
	13.0	8.0	4.0

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STA 122+00 SOUND EAST

DIST	SOUND	DIST	SOUND
7+40	3.8	+1.2	9+30 3.3
+50	3.7	+1.3	(5.1) 3.3
(5.0)	3.7	+	+50 3.2
	3.7	+	3.5
	3.7	+1.3	3.0
	3.6	+1.4	3.3
8+00	3.6	+	3.2
	3.6	+	10+00 3.2
	3.6	+1.4	3.4
	3.5	+1.5	3.3
	3.5	+	3.1
+50	3.5	+	2.7
	3.5	+	+50 2.7
	3.5	+1.5	(5.1) 2.6
	3.7	+1.3	(4:35) 2.5
	3.8	+1.2	2.5
9+00	3.5	+1.5	2.5
	3.4	+1.6	11+00 2.4
	3.4	+1.6	2.2

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PX



PX STA 122+00 3-23-51

SOUND EAST

SOUND WEST

DIST	SOUND	DIST	SOUND
11+20	2.4 +2.7	1+00	4.4 +0.7
(5.1)	2.2 +2.9	(5.1)	4.8 +0.3
	2.1 +3.0		5.1 0.0
+50	1.8 +3.3		4.7 +0.4
	2.0 +3.1		4.8 +0.3
	2.0 +3.1	+50	4.8 +0.3
	1.7 +3.4		5.0 +0.1
	1.5 +3.6		5.4 -0.3
12+00	1.7 +3.4		5.4 -0.3

SOUND WEST

0+10	4.3 +0.8	2+00	4.9 +0.2
(5.1)	4.1 +1.0		4.9 +0.2
(8.42)	4.2 +0.9		4.7 +0.4
	4.4 +0.7		5.0 +0.1
+50	4.4 +0.7		4.8 +0.3
	4.4 +0.7	+50	4.8 +0.3
	4.3 +0.8		5.1 0.0
	4.1 +0.4		5.2 -0.1
	4.7 +0.4		5.3 -0.2

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STA 122+00 SOUND WEST

PX

DIST	SOUND	DIST	SOUND
2+90	5.3 -0.2	4+80	10.4 -5.2
3+00	5.3 -0.2	(5.2)	10.7 -5.5
(5.1)	5.0 +0.1	5+00	10.7 -5.5
(8.45)	5.1 0.0		10.8 -5.6
	5.1 0.0		10.4 -5.2
	5.4 -0.3		10.5 -5.3
+50	5.5 -0.4		10.1 -4.9
	5.5 -0.4	+50	9.6 -4.4
	6.0 -0.9		8.0 -2.8
	6.3 -1.2		5.5 -0.3
	7.5 -2.4		3.7 +1.5
4+00	8.8 -3.7		2.5 +2.7
	8.8 -3.7	6+00	1.7 +3.5
	9.0 -3.9	(8.50)	
	9.6 -4.5	(5.2)	
	9.4 -4.3		
+50	9.7 -4.6		
	9.5 -4.4	+50	
	10.4 -5.3		



2x

3-23-51

SOUND EAST

STA	DIST	SOUND	DIST	SOUND
123+00	0+00	14.00 W		
	0+00	5.2	1+80	4.3
	9:00	5.4		4.1
	5.3	0.0	2+00	3.7
	5.1	+0.2		3.7
	5.2	+0.1		3.7
+50	5.1	+0.2		3.5
	5.1	+0.2		3.7
	5.2	+0.1	+50	3.4
	5.1	+0.2	5.3	3.3
	4.9	+0.4	9:05	3.3
1+00	4.7	+0.6		4.0
	4.6	+0.7		5.5
	4.0	+1.3	3+00	10.1
	4.0	+1.3		12.0
	4.5	+0.8		14.5
+50	4.3	+1.0		15.1
	4.0	+1.3		15.8
	4.0	+1.3	+50	15.5

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STA 123+00

SOUND EAST

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2x

DIST	SOUND	DIST	SOUND
3+60	15.8	-10.4	5+50
5.4	15.7	-10.3	5.4
	15.3	-9.9	
	14.5	-9.1	
4+00	14.4	-9.0	
	13.8	-8.4	6+00
	13.4	-8.0	
	13.4	-8.0	
	13.3	-7.9	
+50	13.0	-7.6	
	13.0	-7.6	+50
	13.2	-7.8	
	13.3	-7.9	
	13.5	-8.4	
5+00	13.3	-7.9	
	13.4	-8.0	7+00
5.4	14.0	-8.6	
9:10	14.0	-8.6	
	11.1	-5.7	



PX

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STA 123+00 SOUND EAST

DIST	SOUND		DIST	SOUND
7+40	3.9 +1.5		9+30	4.3 +1.1
+50	4.2 +1.2		(5.4)	4.1 +1.3
(5.4)	4.1 +1.3		+50	4.1 +1.3
	4.2 +1.2			4.2 +1.2
	4.3 +1.1			4.2 +1.2
	4.4 +1.0			4.1 +1.3
8+00	4.5 +0.9			3.9 +1.5
	4.5 +0.9		10+00	3.7 +1.7
	4.5 +0.9			3.6 +1.8
	4.4 +1.0			3.5 +1.9
	4.4 +1.0			3.5 +1.9
+50	4.4 +1.0			3.4 +2.0
(5.4)	4.5 +0.9		+50	3.4 +2.0
(9:15)	4.4 +1.0			3.4 +2.0
	4.4 +1.0			3.2 +2.2
	4.3 +1.1			3.0 +2.4
9+00	4.2 +1.2			3.1 +2.3
	4.4 +1.0		11+00	2.9 +2.5
	4.4 +1.0			2.9 +2.5

3-23-51

STA 123+00

SOUND EAST

SOUND WEST

DIST	SOUND		DIST	SOUND
11+20	2.8 +2.6		0+60	5.2 +0.3
	2.5 +2.9		(5.5)	5.4 +0.1
	2.5 +2.9			5.1 +0.4
+50	2.5 +2.9			5.1 +0.4
(9:20)	2.5 +2.9		1+00	5.1 +0.4
(5.4)	2.4 +3.0			4.7 +0.8
	2.3 +3.1			4.8 +0.7
	2.3 +3.1			4.7 +0.8
	2.0 +3.4			5.4 +0.1
	1.8 +3.6		+50	5.9 -0.4
	1.8 +3.6			5.4 +0.1
	1.6 +3.8			5.4 +0.1
	1.5 +3.9			5.5 0.0
				5.5 0.0
	5.6 -0.1		2+00	5.4 +0.1
	5.5 0.0			5.4 +0.1
	5.0 +0.5			5.3 +0.2
	5.2 +0.3			5.9 -0.4
+50	5.2 +0.3			5.8 -0.3

PX

(42)



3-23-51

PX STA 123+00 SOUND WEST

DIST	SOUND		DIST	SOUND	
2+50	5.5	0.0	4+40	9.8	-4.3
(5.5)	5.5	0.0	+50	10.0	-4.5
	5.4	+0.1	(5.5)	9.8	-4.3
	5.4	+0.1		10.3	-4.8
	5.5	0.0		10.5	-5.0
3+00	5.5	0.0		10.4	-4.9
	5.8	-0.3	5+00	10.5	-5.0
	5.5	0.0		10.3	-4.8
	5.5	0.0		10.6	-4.5
	5.8	-0.3		9.5	-4.0
+50	5.8	-0.3		8.8	-3.3
	5.8	-0.3	+50	8.0	-2.5
	6.0	-0.5		6.5	-1.0
	6.5	-1.0	(5.5)	5.5	0.0
	8.4	-2.9	(9.33)	4.7	+0.8
4+00	8.7	-3.2		3.5	+2.0
	8.7	-3.2	6+00		
(9.30)	8.8	-3.3			
(5.5)	9.4	-3.9			

3-23-51

PX STA 124+00 0+00 = 14000 W

(43)

DIST	SOUND		DIST	SOUND	
0+00	1.1	+1.2	1+80	4.0	+1.3
(10.15)	4.0	+1.3	(5.3)	4.0	+1.3
(5.3)	4.0	+1.3	2+00	4.0	
	3.7	+1.6		4.0	
	4.0	+1.3		4.0	+1.3
+50	3.9	+1.4		4.2	+1.1
	3.7	+1.6		5.5	-0.2
	3.5	+1.8	+50	9.0	-3.7
	3.5	+1.8		11.7	-6.4
	3.7	+1.6		13.0	-7.7
1+00	3.8	+1.5		16.2	-10.9
	3.6	+1.7		16.0	-10.7
	3.6	+1.7	3+00	16.0	-10.7
	3.6	+1.7		15.8	-10.5
	3.5	+1.8		15.6	-10.3
+50	3.7	+1.6		15.4	-10.1
	3.8	+1.5		14.5	-9.2
	4.0	+1.3	+50	14.8	-9.5



PX 3-23-51  
STA 124+00 SOUND EAST

DIST	SOUND	DIST	SOUND	EAST
3+00	14.1 -8.9	5+50	3.7 +1.5	
	13.5 -8.3	(5.2)	3.7	
(5.2)	13.5 -8.3		3.7	
(10:20)	13.4 -8.2		3.7	
4+00	13.2 -8.0		3.7	
	12.8 -7.6	6+00	3.7 +1.5	
	12.4 -7.2		3.6 +1.6	
	12.3 -7.1		3.6	
	12.3 -7.1		3.6	
+50	12.3 -7.1		3.6	
	12.4 -7.2	+50	3.6	
	12.4 -7.2		3.6	
	12.5 -7.3		3.6 +1.6	
	12.5 -7.3		3.7 +1.5	
5+00	12.0 -6.8		3.7 +1.5	
	5.5 -0.3	7+00	3.8 +1.4	
	4.2 +1.0		3.8	
	3.7 +1.5		3.8	
	3.7 +1.5		3.8 +1.4	

3-23-51 (44)  
STA 124+00 SOUND EAST PX

DIST	SOUND	DIST	SOUND	EAST
7+40	3.9 +1.3	9+30	4.1 +1.1	
+50	3.9 +1.3	(5.2)	4.1 +1.1	
(5.2)	4.1 +1.1	+50	4.0 +1.2	
	4.2 +1.0		3.9 +1.3	
	4.2 +1.0		3.9 +1.3	
	4.4 +0.8		3.9 +1.3	
8+00	4.4 +0.8		3.9 +1.3	
	4.5 +0.7	10+00	3.7 +1.5	
	4.4 +0.8		3.6 +1.6	
	4.4 +0.8		3.5 +1.7	
	4.2 +1.0		3.4 +1.8	
+50	4.3 +0.9		3.2 +2.0	
	4.4 +0.8	+50	3.2 +2.0	
(5.2)	4.3 +0.9		3.1 +2.1	
(10:25)	4.3 +0.9		3.0 +2.2	
	4.2 +1.0		3.0 +2.2	
9+00	4.1 +1.1		2.8 +2.4	
	4.2 +1.0	11+00	2.6 +2.6	
	4.1 +1.1		2.7 +2.5	



3-23-51

STA 124+00

PX SOUND EAST

DIST	SOUND		DIST	SOUND	
11+20	2.5	+2.6	0+80	4.7	+0.2
(5.1)	2.5	+2.6	(4.9)	4.5	+0.5
	2.5	+2.6	1+00	4.5	+0.4
+50	2.5	+2.6		4.6	+0.3
	2.4	+2.7		4.6	+0.3
	2.2	+2.9		4.3	+0.6
	2.4	+2.7		4.5	+0.4
	2.1	+3.0	+50	4.4	+0.5
12+00	1.8	+3.3		4.3	+0.6
(10:30)	1.8	+3.3		4.4	+0.5
(5.1)	1.6	+3.5		4.8	+0.1
<u>SOUND WEST</u>				4.9	0.0
0+10	3.0	+0.9	2+00	4.5	+0.4
(10:52)	4.0	+0.9		4.5	+0.5
(4.9)	4.2	+0.7	(4.8)	4.5	+0.3
	4.6	+0.3	(10:55)	4.5	+0.3
+50	4.6	+0.3		4.7	+0.1
	4.6	+0.3	+50	4.8	0.0
	4.7	+0.2		4.5	+0.3

3-23-51 (45)

STA 124+00 SOUND WEST

PX

DIST	SOUND		DIST	SOUND	
2+70	4.5	+0.3	4+60	9.6	-4.8
(4.8)	4.5	+0.3	(4.8)	9.8	-5.0
	4.5	+0.3		10.0	-5.2
3+00	4.5	+0.3		10.1	-5.3
	4.5	+0.3	5+00	10.1	-5.3
	4.6	+0.2		10.1	-5.3
	4.8	0.0		10.5	-5.7
	5.3	-0.5		10.2	-5.4
+50	5.0	-0.2		10.0	-5.2
	5.2	-0.4	+50	9.5	-4.7
	5.2	-0.4		8.5	-3.7
	5.2	-0.4	(4.7)	7.0	-2.2
	6.0	-1.2	(10:00)	5.6	-0.8
4+00	7.0	-2.2		4.2	+0.6
	7.4	-2.6	6+00	3.0	+1.8
	8.0	-3.2		1.7	+3.1
	8.8	-4.0			
	9.0	-4.2			
+50	9.5	-4.7			



OX

3-23-51

SOUND EAST

STA	DIST	SOUND	DIST	SOUND
125+00	0+00	14000 W		
	0+00	3.0	1+80	3.4
	11:08	3.2	4.6	4.4
	4.6	3.1	2+00	6.5
		3.1		10.3
		3.1		12.2
+50		3.1		12.8
		3.3		12.8
		3.3	+50	13.6
		3.2		13.6
		3.0		13.5
1+00		3.0		13.5
		3.1		13.7
		3.1	3+00	13.7
		3.4		13.6
		3.2		13.6
+50		3.2		13.4
		3.4		13.1
		3.4	+50	12.9

4.6  
10.10

3-23-51

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STA 125+00 SOUND EAST

PX

STA	DIST	SOUND	DIST	SOUND
125+00	3+60	12.5	5+30	3.4
	4.6	12.4	4.5	3.4
		12.0	11:15	3.4
		11.7		3.2
		11.7		3.3
		11.7	6+00	3.3
		11.7		3.4
		11.7		3.4
		11.7		3.7
	+50	11.5		3.4
		9.5	+50	3.2
		6.0		3.5
		4.0		3.5
		3.4		3.5
	5+00	3.3		3.4
		3.3	+1.3	3.4
		3.3	7+00	3.4
		3.2		3.5
		3.3		3.5
		3.4		3.5



21 STA 125+00 3-23-51 SOUND EAST

DIST	SOUND		DIST	SOUND	
7+40	3.5	+1.0	9+30	3.6	+0.8
+50	3.5	}	(4.4)	3.5	+0.9
(4.5)	3.5		+50	3.5	+0.9
	3.5	+1.0		3.5	+0.9
	3.6	+0.9		3.1	+1.3
	3.7	+0.8		3.1	+1.3
8+00	3.7	+0.8		3.0	+1.4
	3.6	+0.9	10+00	3.0	+1.4
	3.6	}		2.9	+1.5
	3.6		(4.4)	2.9	+1.5
	3.6	+0.9	(11:20)	2.7	+1.7
+50	3.5	+1.0		2.7	
	3.5	}	+50	2.7	
	3.5			2.7	+1.7
	3.5		2.5	+1.9	
	3.5	+1.0	2.5	+1.9	
9+00	3.6	+0.9	2.4	+2.0	
	3.6	}	11+00	2.2	+2.2
	3.6		+0.9	2.1	+2.3

3-23-51 STA 125+00 SOUND EAST SOUND WEST PX (47)

DIST	SOUND		DIST	SOUND	
11+20	2.1	+2.3	1+20	2.9	+1.4
(4.4)	2.0	+2.4		2.9	}
	1.8	+2.6		2.9	
+50	1.7	+2.7	1+50	2.9	
	1.6	+2.8		2.9	+1.4
	1.5	+2.9		3.1	+1.2
	1.5	+2.9		3.3	+1.0
				3.3	+1.0
0+10	3.1	+1.2	2+00	3.5	+0.8
	3.0	+1.3		4.0	+0.3
(11:27)	2.9	+1.4		4.2	+0.1
(4.3)	2.9	+1.4	(4.3)	4.2	}
+50	2.7	+1.6	(11:30)	4.2	
	2.7	+1.6	+50	4.2	+0.1
	2.7	+1.6		4.4	-0.1
	2.8	+1.5		4.4	-0.1
	2.8	}		4.6	-0.3
+50	2.8			4.5	-0.2
	2.8	+1.5	3+00	4.4	-0.1



3-23-51  
 STA 125+00 SOUND WEST

DIST	SOUND	DIST	SOUND
3+10	4.2 +0.1	5+00	11.1 -6.9
(4.3)	4.2	(4.2)	11.1 -6.9
	4.2		11.2 -7.0
	4.2 +0.1		11.2 -7.0
+50	4.5 -0.2		11.0 -6.8
	4.6 -0.3	+50	11.0 -6.8
	4.5 -0.2	(4.2)	10.8 -6.6
	4.5	(11.35)	10.5 -6.3
	4.5		9.7 -5.9
4+00	4.5		8.5 -4.3
	4.5	6+00	7.0 -2.9
	4.5 -0.2		5.3 -1.1
	4.8 -0.5		3.4 +0.8
	5.1 -0.8		2.0 +2.2
+50	6.3 -2.0		
	8.4 -4.1	+50	
	10.0 -5.7		
	10.4 -6.1		
	10.8 -6.5		

4-2-51  
 SOUND EAST (48)

STA 126+00 - 0+00 = 14000 W

DIST	SOUND	DIST	SOUND
0+00	2.5 +1.8	1+80	12.1 -7.8
(8.15)	2.5	(4.3)	12.5 -8.2
(4.3)	2.5 +1.8	2+00	12.4 -8.1
	2.7 +1.6		12.5 -8.2
	2.8 +1.5		13.7 -9.4
+50	2.8		14.1 -9.8
	2.8		13.9 -9.6
	2.8 +1.5	+50	13.9 -9.6
	2.7 +1.6		13.0 -8.7
	3.0 +1.3		12.5 -8.2
+50	3.1 +1.2		12.5 -8.2
	3.0 +1.3		12.5
	3.0 +1.3	3+00	12.5
	3.1 +1.2		12.5 -8.2
	3.3 +1.0	(8.55)	12.4 -8.1
+50	3.5 +0.8		12.3 -8.0
	4.6 -0.3		12.2 -7.9
	9.0 -4.7	+50	12.1 -7.8



STA 126+00 4-2-51  
SOUND EAST

DIST	SOUND		DIST	SOUND	
3+60	11.7	-7.4	5+50	3.5	+0.7
(4.3)	11.5	-7.2	(4.2)	3.1	+1.1
	11.5	-7.2		3.1	+1.1
	11.8	-7.5	(9:00)	3.4	+0.8
4+00	11.7	-7.4		3.2	+1.0
	10.5	-6.2	6+00	3.4	+0.8
	7.4	-3.1		3.8	+0.4
	5.0	-0.7		3.3	+0.3
	4.1	+0.2		3.2	+1.0
+50	4.0	+0.3		3.1	+1.1
	3.6	+0.7	+50	3.2	+1.0
	3.4	+0.9		3.1	+1.1
	3.3	+1.0		3.1	
	3.3	+1.0		3.1	
5+00	3.5	+0.8		3.1	+1.1
	3.5	+0.8	7+00	3.2	+1.0
	3.4	+0.9		3.2	
	3.3	+1.0		3.2	
	3.1	+1.2		3.2	+1.0

STA 126+00 4-2-51 (49)  
SOUND EAST PX

DIST	SOUND		DIST	SOUND	
7+40	3.2	+1.0	9+30	3.2	+0.9
+50	3.3	+0.9	(4.1)	3.1	+1.0
(4.2)	3.3		+50	3.1	
	3.3		(9:05)	3.1	+1.0
	3.3	+0.9		2.9	+1.2
	3.4	+0.8		2.9	
8+00	3.3	+0.9		2.9	
	3.3		10+00	2.9	+1.2
	3.3			2.8	+1.3
	3.3			2.8	+1.3
	3.3	+0.9		2.7	+1.4
+50	3.2	+1.0		2.6	+1.5
	3.3	+0.9	+50	2.5	+1.6
	3.7	+0.5		2.3	+1.8
	3.5	+0.7		2.2	+1.9
	3.5	+0.7		2.2	+1.9
9+00	3.4	+0.8		2.2	+1.9
	3.2	+1.0	11+00	2.1	+2.0
	3.3	+0.9		2.1	+2.0



PX STA 126+00

4-2-51

SOUND EAST

DIST SOUND

11+20 2.1 +2.0  
 (4.1) 2.0 +2.1  
 1.9 +2.2  
 +50 1.6 +2.5  
 (2:08) 1.5 +2.6

SOUND WEST

DIST SOUND

1+40 2.3 +1.7  
 +50 2.4 +1.6  
 (4.0) 2.4  
 (9:15) 2.4  
 2.4  
 2.4 +1.6

SOUND WEST

0+10 2.4 +1.6  
 (9:13) 2.2 +1.8  
 (4.0) 2.2 +1.8  
 2.3 +1.7  
 +50 2.2 +1.8  
 2.2 +1.8 +50  
 2.5 +1.5  
 2.6 +1.4  
 2.5 +1.5  
 1+00 2.2 +1.8  
 2.2 +1.8 3+00  
 2.4 +1.6  
 2.3 +1.7

STA 126+00

4-2-51

SOUND WEST

DIST SOUND

3+30 3.0 +1.0  
 (4.0) 3.0  
 +50 3.0  
 3.0 +1.0  
 3.1 +0.9  
 3.1 +0.9  
 3.2 +0.8  
 4+00 3.2 +0.8  
 3.3 +0.7  
 3.5 +0.5  
 3.9 +0.1  
 4.4 -0.4  
 +50 4.3 -0.3  
 4.4 -0.4 +50  
 4.9 -0.9  
 6.1 -2.1  
 8.4 -4.4  
 5+00 10.1 -6.1  
 11.1 -7.1

DIST SOUND

5+20 11.4  
 (3.9) 11.7  
 11.9  
 +50 12.1  
 12.1  
 11.5  
 11.4  
 (9:20) 10.8  
 10.1  
 9.2  
 8.3  
 6.4  
 3.0 +0.9  
 +50  
 7+00

(50)

PX



PX

SOUND EAST 4-2-51

STA 127+00

STA 127+00 - 0+00 = 14,000 W

DIST SOUND DIST SOUND

0+00 1.9 +1.8 1+80 11.6 -7.9

(9.29) 1.9 +1.8 (3.7) 11.8 -8.1

(3.7) 2.0 +1.7 2+00 12.1 -8.4

1.9 +1.8 12.0 -8.3

2.1 +1.6 12.0 -8.3

+50 2.1 +1.6 12.1 -8.4

2.1 +1.6 12.1 -8.4

2.3 +1.4 +50 11.9 -8.2

2.2 +1.5 11.9 -8.2

2.1 +1.6 11.8 -8.1

1+00 2.5 +1.2 12.3 -8.6

3.4 +0.3 12.7 -9.0

5.8 -2.1 3+00 12.1 -8.4

9.3 -5.6 11.6 -7.9

11.0 -7.3 11.7 -8.0

+50 11.1 -7.4 12.0 -8.3

11.1 -7.4 12.0

11.4 -7.7 +50 12.0 -8.3

SOUND EAST 4-2-51

STA 127+00

(51)

PX

DIST SOUND DIST SOUND

3+60 11.6 -7.9 5+50 3.0 +0.6

(3.7) 10.0 -6.3 (3.6) 3.1 +0.5

6.0 -2.3 3.0 +0.6

4.4 -0.7 3.0

4+00 4.7 -1.0 (9.35) 3.0

4.3 -0.6 6+00 3.0

3.7 0.0 3.0

3.2 +0.5 3.0

3.1 +0.6 3.0

+50 3.1 | 3.0

3.1 +0.6 +50 3.0

3.0 +0.7 3.0 +0.6

3.0 | 2.9 +0.7

3.0 | 2.9 |

5+00 3.0 +0.7 2.9 |

2.8 +0.9 7+00 2.9 +0.7

2.7 +1.0 3.0 +0.6

2.8 +0.9 3.0 |

2.9 +0.8 3.0 +0.6



PX

SOUND EAST 4-2-51

STA 127+00

DIST	SOUND		DIST	SOUND
7+40	3.0 +0.6		9+30	3.0 +0.6
+50	3.0	}	(3.6)	3.0 +0.6
(3.6)	3.0		+50	3.1 +0.5
	3.0			3.1 +0.5
	3.0 +0.6			3.0 +0.6
	2.9 +0.7			3.0
8+00	3.0 +0.6			3.0
	3.0		10+00	3.0 +0.6
	3.0			2.9 +0.7
	3.0			2.8 +0.8
	3.0			2.8 +0.8
+50	3.0	(9:40)	2.5 +1.1	
	3.0	+50	2.5 +1.1	
	3.0		2.4 +1.2	
	3.0		2.5 +1.1	
	3.0		2.5 +1.1	
9+00	3.0		2.4 +1.2	
	3.0	11+00	2.1 +1.5	
	3.0		2.1 +1.5	

4-2-51

PX (52)

STA 127+00

SOUND EAST		SOUND WEST	
DIST	SOUND	DIST	SOUND
11+20	1.8 +1.8	1+50	1.8 +1.7
(3.6)	1.6 +2.0	(3.5)	1.5 +2.0
	1.5 +2.1		1.5 +2.0
+50	1.5 +2.1		2.0 +1.5
SOUND WEST			
6+10	1.9 +1.6	2+00	1.9 +1.6
(3.5)	1.9 +1.6		1.9 +1.6
(9:45)	2.0 +1.5		1.9 +1.6
<del>12+00</del>	2.0 +1.5		2.0 +1.5
0+50	1.9 +1.6		2.1 +1.4
	2.0 +1.5	+50	2.1 +1.4
	2.0 +1.5		2.2 +1.3
	1.9 +1.6		2.2 +1.3
	1.7 +1.8		2.1 +1.4
1+00	1.5 +2.0		2.2 +1.3
	1.8 +1.7	3+00	2.1 +1.4
	1.8 +1.7		2.1 +1.4
	1.7 +1.8		2.2 +1.3
	1.5 +2.0		2.2 +1.3



4-2-51  
PX STA 127+00 SOUND WEST

DIST	SOUND	DIST	SOUND
3+40	2.2 +1.2	5+30	9.0 -5.6
+50	2.2 +1.2	(3.4)	10.4 -7.0
(3.4)	2.3 +1.1	+50	11.1 -7.7
	2.3 +1.1		11.4 -8.0
	2.3 +1.1		11.5 -8.1
	2.3 +1.1		11.5 -8.1
4+00	2.2 +1.2		11.4 -8.0
	2.2 +1.2	6+00	11.1 -7.7
	2.2 +1.2		10.4 -7.0
(9.50)	2.2 +1.2		9.7 -6.3
	2.4 +1.0		9.0 -5.6
+50	2.4 +1.0		6.5 -3.1
	2.5 +0.9	+50	4.8 -1.4
	2.5 +0.9		
	2.9 +0.5		
	3.3 +0.1		
5+00	4.0 -0.6		
	5.1 -1.7		
	7.2 -3.8		

4-2-51  
SOUND EAST

STA 129+00 - 0+00 = 14,000

DIST	SOUND	DIST	SOUND
0+00	1.5 +1.6	1+80	10.5 -7.4
(10.05)	1.6 +1.5	(3.1)	10.5 -7.4
(3.1)	1.6 +1.5	2+00	11.2 -8.1
	2.0 +1.1		11.3 -8.2
	1.5 +1.6		11.3 -8.2
+50	2.0 +1.1		11.5 -8.4
	1.7 +1.4		11.5 -8.4
	1.7 +1.4	+50	12.9 -9.8
	1.7		12.7 -9.6
	1.7 +1.4		13.0 -9.9
1+00	1.8 +1.3		12.8 -9.7
	2.0 +1.1		12.8 -9.7
	3.0 +0.1	3+00	12.8 -9.7
	5.5 -2.4		12.8 -9.7
	9.2 -6.1		12.5 -9.4
2+00	10.6 -7.5		11.7 -8.6
	10.7 -7.6		11.4 -8.3
	10.8 -7.7	+50	11.3 -8.2



PX

STA 129+00 4-2-57  
SOUND EAST

DIST	SOUND	DIST	SOUND
3+60	11.5 -8.4	5+50	3.3 -0.2
(3.1)	11.3 -8.2	(3.1)	3.1 0.0
	10.4 -7.3		3.2 -0.1
	7.6 -4.5		3.2 -0.1
4+00	4.3 -1.2		3.3 -0.2
	3.8 -0.7	6+00	3.5 -0.4
	3.1 0.0		3.5
	3.1		3.5 -0.4
	3.1 0.0		3.6 -0.5
+50	3.2 -0.1		3.4 -0.3
	3.2	+50	3.4 -0.3
	3.2		3.5 -0.4
	3.2		3.5 -0.4
	3.2 -0.1		3.7 -0.6
5+00	3.1 0.0		3.8 -0.7
	2.9 +0.2	7+00	3.7 -0.6
(10:10)	2.9 +0.2		3.6 -0.5
	3.1 0.0		3.6 -0.5
	3.3 -0.2		3.5 -0.4

STA 129+00 4-2-57

PX

DIST	SOUND	DIST	SOUND
7+40	3.5 -0.4	9+30	3.5 -0.5
+50	3.5 -0.4	(3.0)	3.5
(3.1)	3.4 -0.3	+50	3.5
	3.5 -0.4		3.5
	3.5 -0.4		3.5
	3.7 -0.6		3.5
8+00	3.8 -0.7		3.5 -0.5
	3.6 -0.5	10+00	3.4 -0.4
	3.6 -0.5		3.4
	3.5 -0.4		3.4
	3.5		3.4
+50	3.5		3.4 -0.4
	3.5 -0.4	+50	3.1 -0.1
	3.4 -0.3		2.8 +0.2
	3.5 -0.4	(10:15)	2.6 +0.4
	3.5		2.4 +0.6
9+00	3.5		2.4
	3.5	11+00	2.4 +0.6
	3.5 -0.4		2.1 +0.9



4-2-51 STA 129+00

SOUND EAST			SOUND WEST 4-3-51		
DIST	SOUND		DIST	SOUND	
11+20	2.0 +1.0		0+90	3.8 +1.6	
(3.0)	1.9 +1.1		1+00	3.8 +1.6	
	1.7 +1.3		(5.4)	3.6 +1.8	
+50	1.7 +1.3			3.7 +1.7	
	1.5 +1.5			3.7 +1.7	
	1.5 +1.5			3.7 +1.7	
	1.5 +1.5	+50		3.9 +1.5	
	1.4 +1.6			3.9 +1.5	+50
12+00	1.2 +1.8			3.6 +1.8	
SOUND WEST				3.6 +1.8	
4-3-51				3.5 +1.9	
0+10	3.8 +1.6		2+00	3.4 +2.0	
(5.4)	3.8 +1.6			3.5 +1.9	4+00
(8:30)	3.9 +1.5			3.5 +1.9	
	3.8 +1.6			3.5	
+50	3.7 +1.7			3.5	
	3.8 +1.6	+50		3.5 +1.9	
	3.6 +1.8			3.9 +1.5	+50
	3.4 +2.0			3.9 +1.5	

STA 129+00 4-3-51 (55) PX

SOUND WEST			SOUND WEST		
DIST	SOUND		DIST	SOUND	
2+80	3.6 +1.8		4+70	5.4 -0.1	
(5.4)	3.5 +1.9		(5.3)	5.5 -0.2	
3+00	3.6 +1.8			5.3 0.0	
	3.7 +1.7		5+00	5.3 0.0	
	3.7 +1.7			5.5 -0.2	
	4.0 +1.4		(8:35)	6.0 -0.7	
	4.3 +1.1			6.7 -1.4	
+50	4.4 +1.0			8.0 -2.7	
	4.6 +0.8	+50		8.0 -2.7	
	4.8 +0.6			10.0 -4.7	
	4.8 +0.6			10.5 -5.2	
	5.0 +0.4			10.7 -5.4	
4+00	5.0 +0.4			11.3 -6.0	
	5.1 +0.3	6+00		11.6 -6.3	
	5.1 +0.3			11.1 -5.8	
	5.3 +0.1			11.0 -5.7	
	5.3			10.8 -5.5	
+50	5.3			10.5 -5.2	
	5.3	+50		9.8 -4.5	
	5.3 +0.1			8.3 -3.0	
				5.4 -0.1	
				3.5 +1.8	
				2.2 +3.1	
				2.0 +3.3	
		7+00			



PX

4-3-51  
SOUND EAST

STA 128+00 - 0+00 = 14,000 W			
DIST	SOUND	DIST	SOUND
0+00	3.4 +1.8	1+00	12.5 -7.3
(8:45)	3.4	(5.2)	12.6 -7.4
(5.2)	3.4	2+00	13.0 -7.8
	3.4 +1.8		13.0 -7.8
	3.5 +1.7		13.2 -8.0
+50	3.3 +1.9		13.1 -7.9
	3.4 +1.8		13.1 -7.9
	5.5 -0.3	+50	13.0 -7.8
	9.6 -4.4		14.0 -8.8
	12.0 -6.8		14.4 -9.2
1+00	12.5 -7.3		14.6 -9.4
	12.5 -7.3		14.7 -9.5
	12.4 -7.2	3+00	14.7 -9.5
	12.4 -7.2		14.8 -9.6
	12.2 -7.0		14.4 -9.2
+50	12.4 -7.2		12.7 -7.5
	12.1 -7.2		10.3 -5.1
	12.5 -7.3	+50	7.0 -1.8

STA 128+00

4-3-51  
SOUND EAST

(56)

PX

DIST SOUND			
3+60	6.8 -1.6	5+50	4.5 +0.7
(8:50)	6.7 -1.5	(5.2)	4.4 +0.8
(5.2)	6.5 -1.3		4.4 +0.8
	5.5 -1.3		4.5 +0.7
4+00	5.0 +0.2		4.7 +0.5
	4.8 +0.4	6+00	4.5 +0.7
	4.8		4.5
	4.8		4.5
	4.8 +0.4		4.5 +0.7
+50	4.5 +0.7		4.6 +0.6
	4.5	+50	4.6
	4.5 +0.7		4.6
	5.0 +0.2		4.6
	4.5 +0.7		4.6 +0.6
5+00	5.0 +0.2		4.7 +0.5
	4.8 +0.3	7+00	4.7
	4.6 +0.6		4.7 +0.5
	4.5 +0.7		4.8 +0.4
	4.5 +0.7		4.7 +0.5



STA 128+00 4-3-51  
SOUND EAST

DIST	SOUND	DIST	SOUND
7+40	4.7 +0.4	9+30	4.9 +0.2
+50	4.8 +0.3	(5.1)	4.9 +0.2
(5.1)	4.7 +0.4	+50	5.0 +0.1
	4.7		5.0
	4.7		5.0
	4.7 +0.4		5.0
8+00	4.8 +0.3		5.0
	4.8	10+00	5.0
	4.8		5.0 +0.1
	4.8		4.9 +0.2
(8:55)	4.8		4.7 +0.3
+50	4.8		4.4 +0.7
	4.8	+50	4.3 +0.8
	4.8		4.1 +1.0
	4.8		4.0 +1.1
	4.8		4.0
9+00	4.8 +0.3		4.0 +1.1
	4.9 +0.2	11+00	3.8 +1.3
	5.0 +0.1		3.5 +1.6

STA 128+00 4-3-51  
SOUND EAST

(57) PX

DIST	SOUND	DIST	SOUND
11+20	3.4 +1.7	15+10	1.3 +3.8
(5.1)	3.3 +1.8	SOUND WEST	
	3.3 +1.8	0+10	3.3 +1.7
+50	3.2 +1.9	(9:05)	3.3
	3.1 +2.0	(5.0)	3.3
	3.1 +2.0		3.3
	3.0 +2.1	+50	3.3
	2.9 +2.2		3.3 +1.7
12+00	2.8 +2.3		3.2 +1.8
	2.7 +2.4		3.2
	2.5 +2.6		3.2 +1.8
	2.3 +2.8	1+00	3.4 +1.6
	2.4 +2.7		3.1 +1.9
+50	2.4 +2.7		2.8 +2.2
	2.1 +3.0		2.7 +2.3
(9:00)	2.1 +3.0		3.0 +2.0
	2.0 +3.1	+50	3.2 +1.8
	1.8 +3.3		3.2 +1.8
13+00	1.4 +3.7		3.1 +1.9



STA 128+00 4-3-51

PX

SOUND WEST

DIST	SOUND		DIST	SOUND	
1+80	3.1	+1.9	3+70	3.8	+1.2
(5.0)	3.0	+2.0	(5.0)	3.8	+1.2
2+00	3.1	+1.9		3.7	+1.3
	3.1	+1.9	4+00	3.7	
	3.3	+1.7		3.7	
	3.1	+1.9		3.7	+1.3
	3.3	+1.7		3.6	+1.4
+50	3.3			3.8	+1.2
	3.3		+50	4.0	+1.0
	3.3	+1.7	(9.10)	4.0	+1.8
	3.5	+1.5		4.1	+0.9
	3.9	+1.1		4.4	+0.6
3+00	4.1	+0.9		4.4	
	4.2	+0.8	5+00	4.4	+0.6
	4.2	+0.8		5.1	-0.1
	4.1	+0.9		6.3	-1.3
	4.1	+0.9		7.8	-2.8
+50	4.0	+1.0		9.5	-4.5
	3.8	+1.2	+50	10.2	-5.2

STA 128+00 4-3-51

(58)

PX

SOUND WEST

DIST	SOUND	
5+60	11.4	-6.4
(5.0)	11.5	-6.5
	12.0	-7.0
	12.0	-7.0
6+00	11.5	-6.5
	11.4	-6.4
	11.0	-6.0
	10.1	-5.1
	9.3	-4.3
+50	6.5	-1.5
	3.5	+1.5
	2.0	+3.0
	1.5	+3.5



PX

4-3-51  
SOUND EAST

STA 130+00 - 0+00 = 14000 W

DIST	SOUND	DIST	SOUND
0+00	4.0 +0.7	1+80	4.5 +0.2
(9.25)	3.2 +0.8	(4.7)	7.3 -2.6
(4.7)	3.8 +0.9	2+00	10.0 -5.3
	3.5 +1.3		11.4 -6.7
	3.6 +1.1		12.0 -7.3
+50	<del>3.4</del> 4.2 +1.3		12.2 -7.5
	3.5 +1.2		12.6 -7.7
	3.5 +1.2	+50	12.6 -7.7
	3.4 +1.3		12.8 -8.1
	3.4 +1.3		13.4 -8.7
1+00	3.4		13.5 -8.8
	3.4		13.5 -8.8
	3.4 +1.3	3+00	13.8 -9.1
	3.3 +1.4		14.0 -9.3
	3.3 +1.4		14.0 -9.3
+50	3.4 +1.3		14.0 -9.3
	3.7 +1.0		13.0 -8.3
	3.4 +1.3	+50	12.8 -8.1

STA 30+00 - 4-3-51

SOUND EAST

(59)

PX

DIST	SOUND	DIST	SOUND
3+60	12.6 -8.0	5+50	3.7 +0.9
(9.30)	12.6 -8.0	(4.6)	3.8 +0.8
(4.6)	12.2 -7.6		3.8
	11.8 -7.2		3.8
4+00	11.5 -6.9		3.8 +0.8
	11.5 -6.9	6+00	4.0 +0.6
	11.2 -6.6		4.0
	10.5 -5.9		4.0 +0.6
	9.3 -4.7	(9.35)	4.2 +0.4
+50	6.6 -2.0		4.3 +0.3
	4.5 +0.1	+50	4.1 +0.5
	4.1 +0.5		4.1
	4.0 +0.6		4.1 +0.5
	3.8 +0.8		4.2 +0.4
5+00	3.7 +0.9		4.4 +0.2
	3.7 +0.9	7+00	4.4
	4.1 +0.5		4.4 +0.2
	4.1 +0.5		4.5 +0.1
	3.7 +0.9		4.6 0.0



STA 130+00 4-3-51  
 SOUND EAST

DIST	SOUND	DIST	SOUND
7+40	4.5 0.0	9+30	4.5 0.0
+50	4.5	(4.5)	4.5
(4.5)	4.5	+50	4.5
	4.5 0.0		4.5
	4.8 -0.3		4.5
	4.5 0.0		4.5
8+00	4.5		4.5
	4.5	10+00	4.5
	4.5		4.5 0.0
	4.5		4.4 +0.1
	4.5		4.4
+50	4.5		4.4
	4.5	+50	4.4 +0.1
	4.5		4.3 +0.2
	4.5		4.3 +0.2
	4.5		4.2 +0.3
9+00	4.5		4.2
	4.5	11+00	4.2
(9.40)	4.5 0.0		4.2 +0.3

STA 130+00 4-3-51 (60)  
 SOUND EAST PX

DIST	SOUND	DIST	SOUND
11+20	4.2 +0.2	13+10	2.4 +2.0
(4.4)	4.2 +0.2	(9.4)	2.4 +2.0
	4.1 +0.3		2.3 +2.1
+50	3.8 +0.6		2.0 +2.4
	3.8 +0.6	+50	1.7 +2.7
	3.9 +0.5		1.4 +3.0
	4.0 +0.4		1.7 +2.7
	4.0 +0.4		1.5 +2.9
12+00	3.7 +0.7		1.5 +2.9
	3.6 +0.8	<u>SOUND WEST</u>	
(9.45)	3.4 +1.0	0+10	3.8 +0.4
	3.2 +1.2	9:53	3.8 +0.4
	3.1 +1.3	(4.2)	3.7 +0.5
+50	2.9 +1.5		3.5 +0.7
	2.8 +1.6	+50	3.5
	2.6 +1.8		3.5 +0.7
	2.6 +1.8		3.4 +0.8
	2.5 +1.9		3.4 +0.8
13+00	2.5 +1.9	0+30	3.2 +1.0



STA 130+00			4-3-51		
PX SOUND WEST					
DIST	SOUND		DIST	SOUND	
1+00	3.0	+1.2	2+90	3.1	+1.1
(4.2)	3.0		3+00	3.1	
	3.0		(4.2)	3.1	
	3.0			3.1	
	3.0			3.1	
+50	3.0	+1.2		3.1	
	3.1	+1.1	+50	3.1	
	3.1	+1.1		3.1	+1.1
	3.0	+1.2		3.2	+1.0
	3.0			3.4	+0.8
2+00	3.0			3.5	+0.7
	3.0		4+00	3.8	+0.4
	3.0			4.0	+0.2
	3.0			4.1	+0.1
(9:55)	3.0			4.1	+0.1
+50	3.0	+1.2		4.3	-0.1
	2.9	+1.3	+50	4.3	
	3.0	+1.3		4.3	-0.1
	3.1	+1.1		4.7	-0.5

STA 130+00			4-3-51			(6)
SOUND WEST						PX
DIST	SOUND		DIST	SOUND		
4+80	4.5	-0.3	6+70	<del>9.3</del>	9.3	-5.1
(4.2)	4.3	-0.1	<del>9.0</del>	9.0		-4.8
5+00	4.1	+0.1	(4.2)	6.7		-2.5
	4.1		7+00	5.4		-1.2
	4.1	+0.1		4.0		+0.2
	4.5	-0.3				
	5.0	-0.8				
+50	5.5	-1.3				
	6.0	-1.8				
	6.4	-2.2				
	7.0	-2.8				
	7.5	-3.3	(10:00)			
	8.8	-4.6	6+00			
	9.5	-5.3				
	9.8	-5.6				
	10.1	-5.9				
	10.1	-5.9				
+50	10.1	-5.9				
	9.8	-5.6				



AX

4-3-51  
SOUND EAST

STA 131+00 - 0+00 = 14000 W

DIST	SOUND		DIST	SOUND	
0+00	3.3	+0.6	1+80	3.0	+0.9
(10:15)	3.3		(3.9)	3.0	
(3.9)	3.3		2+00	3.0	+0.9
	3.3	+0.6		3.5	+0.4
	3.5	+0.4		3.4	+0.5
+50	3.4	+0.5		4.0	-0.1
	3.5	+0.4		6.1	-2.2
	3.5		+50	9.0	-5.1
	3.5	+0.4		10.3	-6.9
	3.8	+0.1		11.2	-7.3
1+00	3.9	0.0		13.0	-9.1
	3.5	+0.4		13.0	
	3.2	+0.7	3+00	13.0	-9.1
	3.0	+0.9	(10:20)	12.2	-8.3
	2.9	+1.0		11.7	-7.8
+50	3.0	+0.9		11.7	-7.8
	3.0	+0.9		12.1	-8.2
	3.0	+0.9	+50	12.6	-8.7

STA 131+00 4-3-51  
SOUND EAST

(62)

PX

DIST	SOUND		DIST	SOUND	
3+60	12.0	-8.2	5+50	3.1	+0.6
(3.8)	12.1	-8.3	(10:25)	3.1	
	12.1		(3.7)	3.1	
	12.1	-8.3		3.1	+0.6
4+00	12.0	-8.2		3.3	+0.4
	11.7	-7.9	6+00	3.4	+0.3
	11.4	-7.6		3.3	+0.4
	11.0	-7.2		3.3	+0.4
	10.6	-6.8		3.4	+0.3
+50	10.4	-6.6		3.3	+0.4
	10.3	-6.5	+50	3.5	+0.2
	10.1	-6.3		3.6	+0.1
	10.1			3.5	+0.2
	10.1			3.4	+0.3
5+00	10.1	-6.3		3.4	
	9.0	-5.2	7+00	3.4	
	4.0	-0.2		3.4	+0.3
	3.1	+0.7		3.5	+0.2
	3.1	+0.7		3.5	+0.2



STA 131+00 4-3-51

SOUND EAST

PX

DIST	SOUND		DIST	SOUND	
7+40	3.5	+0.1	9+30	4.0	-0.4
+50	3.5		(3.6)	4.0	
(3.6)	3.5		+50	4.0	
	3.5	+0.1		4.0	
	3.6	0.0		4.0	
	3.6	0.0		4.0	
8+00	3.7	-0.1		4.0	
	3.8	-0.2	10+00	4.0	
	3.8			4.0	
	3.8			4.0	-0.4
	3.8			3.8	-0.2
+50	3.8	-0.2		3.8	
	3.7	-0.1	+50	3.8	
(10:30)	3.7	-0.1		3.8	
	3.8	-0.2		3.8	
	4.0	-0.4		3.8	
9+00	4.0	-0.4		3.8	
	3.8	-0.2	11+00	3.8	-0.2
	4.0	-0.4		3.9	-0.3

STA 131+00

4-3-51

(63)

SOUND EAST

PX

DIST	SOUND		DIST	SOUND	
11+20	4.0	-0.5	13+10	2.5	+1.0
(3.5)	3.8	-0.3	(3.5)	2.4	+1.1
	3.8			2.2	+1.3
+50	3.8			2.2	+1.3
	3.8		+50	2.1	+1.4
(10:35)	3.8			2.0	+1.5
	3.8			2.0	
	3.8			2.0	+1.5
	3.8			1.9	+1.6
	3.8		14+00	1.8	+1.7
	3.8	-0.3		1.8	
	3.6	-0.1		1.8	+1.7
	3.5	0.0		1.7	+1.8
+50	3.4	+0.1		1.5	+2.0
	3.3	+0.2	<u>SOUND WEST</u>		
	3.2	+0.3	0+10	3.0	+0.4
	3.0	+0.5	10:45	3.0	+0.4
	2.8	+0.7	(3.4)	2.8	+0.6
13+00	2.7	+0.8	+40	2.8	+0.6



STA 131+00 4-3-51  
SOUND WEST

PX

DIST	SOUND	DIST	SOUND
0+50	2.8 +0.6	2+40	3.3 +0.1
(3.4)	2.7 +0.7	+50	3.3 +0.1
	2.7	(3.4)	3.5 -0.1
	2.7 +0.7		3.5 -0.1
	3.0 +0.4		3.6 -0.2
1+00	3.1 +0.3		3.5 -0.1
	3.0 +0.4	3+00	3.3 +0.1
	3.1 +0.3		3.3
	3.1 +0.3		3.3 +0.1
	3.4 0.0		3.4 0.0
+50	3.4 0.0		3.5 -0.1
	3.5 -0.1	+50	3.5
	3.5		3.5 -0.1
	3.5 -0.1		3.4 0.0
	3.4 0.0		3.4
2+00	3.4		3.4 0.0
	3.4	4+00	3.5 -0.1
	3.4 0.0		3.5 -0.1
	3.3 +0.1		3.3 +0.1

STA 131+00 4-3-51  
SOUND WEST

(67)  
PX

DIST	SOUND	DIST	SOUND
4+30	3.1 +0.2	6+20	7.8 -4.5
(3.3)	3.0 +0.3	(3.3)	8.5 -5.2
+50	2.8 +0.5		9.0 -5.7
	2.5 +0.8	+50	9.0 -5.7
	2.4 +0.9		9.4 -6.1
	2.4		9.4
(10.50)	2.4		9.4
5+00	2.4		9.4 -6.1
	2.4	7+00	8.7 -5.4
	2.4 +0.9		8.0 -4.7
	2.6 +0.7		7.1 -3.8
	3.1 +0.2		5.0 -1.7
+50	3.4 -0.1		3.5 +0.2
	4.0 -0.7		
	4.0 -0.7		
	4.3 -1.0		
	4.5 -1.2		
6+00	5.8 -2.5		
	6.7 -3.4		



PX

4-4-51

SOUND EAST

STA 132+00 0+00 = 14000W

DIST	SOUND		DIST	SOUND	
0+00	4.6	+1.0	1+80	6.0	-0.5
(9:01)	4.6		(5.5)	5.8	-0.3
(5.6)	4.6	+1.0	2+00	6.1	-0.6
	4.5	+1.1	(9:05)	6.0	-0.5
	4.5			7.2	-1.7
+50	4.5			7.8	-2.3
	4.5	+1.1		8.4	-2.9
	4.4	+1.2	+50	9.0	-3.5
	4.4	+1.2		9.8	-4.3
	4.5	+1.1		9.8	-4.3
1+00	4.7	+0.9		11.4	-5.9
	5.0	+0.6		11.1	-5.6
	5.0		3+00	12.0	-6.5
	5.0			13.0	-7.5
	5.0	+0.6		13.7	-8.2
+50	5.1	+0.5		15.2	-9.7
	5.1	+0.5		15.0	-9.5
	5.4	+0.2	+50	14.1	-8.6

STA 132+00

SOUND EAST

DIST SOUND

DIST	SOUND		DIST	SOUND	
3+60	13.7	-8.2	5+50	13.0	-7.0
(5.5)	14.0	-8.5	(5.5)	11.4	-5.9
	14.5	-9.0		7.8	-2.3
	14.2	-8.7		11.8	-2.3
	14.2	-8.7		6.5	-1.0
4+00	14.0	-8.5		6.3	-0.8
	14.0	-8.5	6+00	6.3	
(9:10)	13.8	-8.3		6.3	-0.8
	13.7	-8.2		6.1	-0.6
	13.6	-8.1		6.4	-0.9
-50	13.3	-7.8		6.5	-1.0
	13.1	-7.6	+50	6.5	
	13.1	-7.6	(9:15)	6.5	
	13.1	-7.6	(5.4)	6.5	
	13.0	-7.5		6.5	-1.0
5+00	13.0			6.8	-1.3
	13.0		7+00	6.8	
	13.0			6.8	
	13.0			6.8	-1.3
	13.0	-7.5		6.6	-1.1

4-4-51

(65)

PX



STA 132+00

SOUND EAST

4-4-51

DIST SOUND DIST SOUND

7+40 6.8 -1.4 9+30 7.0 -1.6

+50 6.8 (5.4) 7.0

(5.4) 6.8 +50 7.0

6.8 7.0 -1.6

6.8 -1.4 7.1 -1.7

7.0 -1.6 7.0 -1.6

8+00 6.8 -1.4 7.0

6.8 10+00 7.0

6.8 7.0

6.8 7.0 -1.6

6.8 6.8 -1.4

+50 6.8 6.8 -1.4

6.8 +50 7.0 -1.6

6.8 -1.4 7.0

(9.20) 7.0 -1.6 7.0

7.0 7.0

9+00 7.0 7.0 -1.6

7.0 11+00 7.2 -1.8

7.0 -1.6 7.2 -1.8

STA 132+00

4-4-51

(66)

PX

DIST SOUND DIST SOUND DIST SOUND

11+20 7.2 -1.9 13+10 6.3 -1.0

(5.3) 7.2 (5.3) 6.3

(7.25) 7.2 6.3

+50 7.2 6.3

7.2 +50 6.3 -1.0

7.2 -1.9 6.1 -0.8

7.0 -1.7 5.8 -0.5

7.0 5.6 -0.3

12+00 7.0 5.7 -0.4

7.0 14+00 5.9 -0.6

7.0 5.9

7.0 - 5.9 -0.6

7.0 -1.7 (9.30) 5.6 -0.3

+50 6.8 -1.5 5.1 +0.2

6.7 -1.4 +50 4.8 +0.5

6.7 -1.4 4.4 +0.9

6.4 -1.1 4.1 +1.2

6.4 4.0 +1.3

13+00 6.4 -1.1 4.0 +1.3



4-4-51

STA 132+00  
SOUND EAST

DIST	SOUND	DIST	SOUND
15+00	4.0 +1.3	16+00	2.8 +2.4
(5.3)	3.7 +1.6	17+00	2.8 +2.4
	3.3 +2.0	(5.2)	3.2 +2.0
	2.8 +2.5		4.0 +1.2
	2.7 +2.6	(9:35)	4.4 +0.9
+50	2.5 +2.8		4.8 +0.4
	2.0 +3.3	+50	5.3 -0.1
	1.7 +3.6		6.0 -0.5
	1.5 +3.8		6.2 -1.0
	1.5 +3.8		7.0 -1.8
76+00	1.5 +3.8		7.9 -2.7
	1.5 +3.8	18+00	8.4 -3.0
	1.6 +3.7		9.0 -3.8
	1.5 +3.8		9.6 -3.8
	1.5 +3.8		9.4 -4.2
+50	1.6 +3.7		9.4 -4.2
	1.6 +3.7	+50	9.1 -3.9
	1.8 +3.5		9.0 -3.8
	2.3 +3.0		8.4 -3.2

4-4-51 (67)

STA 132+00  
SOUND WEST

DIST	SOUND	DIST	SOUND
0+10	4.2 +1.0	2+00	4.0 +1.2
(9:45)	4.0 +1.2	(5.2)	4.0
(5.2)	4.0		4.0
	4.0		4.0 +1.2
+50	4.0		4.1 +1.1
	4.0	+50	4.0 +1.2
	4.0		4.2 +1.0
	4.0		4.1 +1.1
	4.0		4.1 +1.1
	4.0		4.0 +1.2
	4.0	3+00	4.0
	4.0		4.0
	4.0		4.0 +1.2
	4.0		3.8 +1.4
+50	4.0		3.7 +1.5
	4.0	+50	3.6 +1.6
	4.0		3.6 +1.6
	4.0	(9:50)	3.5 +1.7
	4.0 +1.2		3.5 +1.7



STA 132+00 4-4-51

SOUND WEST

DIST	SOUND		DIST	SOUND	
3+90	3.4	+1.7	5+80	5.0	0.0
4+00	3.3	+1.8	(5.0)	5.4	-0.4
(5.1)	3.2	+1.9	6+00	5.5	-0.5
	3.2		(9.55)	6.2	-1.2
	3.2		(4.9)	7.0	-2.1
	3.2	+1.9		8.0	-3.1
+50	3.3	+1.8		9.1	-4.2
	3.2	+1.9	+50	9.8	-4.9
	3.2			10.4	-5.5
	3.2			10.7	-5.8
	3.2	+1.9		11.2	-6.3
5+00	3.3	+1.8		11.2	-6.3
	3.4	+1.7	7+00	11.0	-6.1
	3.4	+1.7		11.0	
	3.5	+1.6		11.0	-6.1
	3.6	+1.5		9.5	-4.6
+50	4.2	+0.9		8.0	-3.1
	4.7	+0.4	+50	4.9	0.0
	4.8	+0.3		3.2	+1.7
				2.2	+2.7
				1.3	+3.6

4-4-51

SOUND EAST

STA 133+00 0+00 = 19 000 W						
DIST	SOUND		DIST	SOUND		
0+00	3.4	+1.4	1+80	16.0	-11.2	
(10.08)	3.4	+1.4	(4.8)	15.7	-10.9	
	3.5	+1.3	(4.8)	3.5	+1.3	
	3.5	+1.3	2+00	15.7	-10.9	
	3.5	+1.3		16.0	-11.2	
	3.7	+1.1		16.0		
+50	3.7	+1.1		16.0	-11.2	
	4.0	+0.8		16.3	-11.5	
	3.8	+1.0	+50	17.1	-12.3	
	3.8	+1.0		17.8	-13.0	
	4.0	+0.8		18.2	-13.4	
1+00	4.0	+0.8		18.2	-13.4	
	4.4	+0.4		18.4	-13.6	
	(10.10)	5.1	-0.3	3+00	18.4	-13.6
	8.0	-3.2		18.5	-13.7	
	12.2	-7.4		19.3	-14.5	
+50	15.1	-10.9		19.5	-14.7	
	16.5	-11.7		19.3	-14.5	
	16.3	-11.5	+50	19.0	-14.2	



STA 133+00 4-4-51  
SOUND EAST

PX

DIST	SOUND	DIST	SOUND
3+60	19.2 -14.4	5+50	12.0 -7.3
(4.8)	19.2 -14.4	(4.7)	12.0
(10:15)	18.5 -13.7		12.0 -7.3
(4.7)	14.0 -9.3		12.2 -7.5
4+00	13.0 -8.3		12.0 -7.3
	13.0	6+00	11.8 -7.1
	13.0		11.2 -6.5
	13.0 -8.3	(10:20)	10.0 -5.3
	12.6 -7.9	(4.6)	7.1 -2.4
+50	12.5 -7.8		5.5 -0.8
	12.8 -8.1	+50	5.3 -0.6
	13.0 -8.3		5.3
	13.0 -8.3		5.3
	13.5 -8.8		5.3
5+00	13.0 -8.3		5.3
	13.0 -8.3	7+00	5.3 -0.6
	12.8 -8.1		5.5 -0.8
	12.4 -7.7		5.6 -0.9
	12.4 -7.7		5.5 -0.8

STA 133+00 4-4-51 (69)  
SOUND EAST PX

DIST	SOUND	DIST	SOUND
7+40	5.5 -0.9	9+30	18.4 -13.9
+50	5.5	(4.5)	18.5 -14.0
(4.6)	5.5	+50	18.3 -13.8
	5.5 -0.9		18.5 -14.0
	5.6 -1.0		18.5
	5.5 -0.9		18.5
8+00	5.5		18.5
	5.5	10+00	18.5
	5.5 -0.9		18.5
	5.8 -1.2		18.5 -14.0
	5.8 -1.2		18.1 -13.6
+50	7.4 -2.8		17.0 -12.5
	13.0 -8.4	+50	15.0 -10.5
	16.5 -11.9		13.8 -9.3
	18.0 -13.4		14.5 -10.0
(10:25)	18.4 -13.8		16.8 -12.3
9+00	18.4		17.5 -13.0
	18.4	11+00	17.5 -13.0
	18.4 -13.8		17.7 -13.2



STA 133+00 4-4-51  
SOUND EAST

DIST	SOUND	DIST	SOUND
11+20	17.4 -13.0	13+10	19.5 -15.1
(4.4)	17.4 -13.0	(4.4)	19.5
	17.5 -13.1		19.5 -15.1
+50	17.5 -13.1		19.2 -14.8
	17.8 -13.4	+50	19.5 -15.1
	18.0 -13.6		19.5 -15.1
	18.0		19.2 -14.8
(10:30)	18.0		19.0 -14.6
12+00	18.0 -13.6		19.0
	18.4 -14.0	14+00	19.0
	18.4 -14.0		19.0 -14.6
	18.1 -13.7		19.3 -14.9
	18.1 -13.7		19.5 -15.1
+50	18.8 -14.4		19.5 -15.1
	20.3 -15.9	+50	19.2 -14.8
	20.3	(10:35)	18.0 -13.6
	20.3 -15.9		15.7 -11.3
	19.7 -15.3		14.0 -9.6
15+00	19.7 -15.3		10.8 -6.4

STA 133+00 4-4-51  
SOUND EAST

DIST	SOUND	DIST	SOUND
15+00	6.0 -1.7	16+90	3.0 +1.3
(4.3)	5.1 -0.8	17+00	3.3 +1.0
	4.5 -0.2	(4.3)	3.7 +0.6
	3.8 +0.5		4.1 +0.2
	3.5 +0.8	(10:40)	4.5 -0.2
+50	3.2 +1.1		4.5
	2.8 +1.5	+50	4.5 -0.2
	2.7 +1.6		4.6 -0.3
	2.7 +1.6		4.8 -0.5
	2.5 +1.8		5.0 -0.7
16+00	2.5 +1.8		5.1 -0.8
	2.4 +1.9	18+00	5.1 -0.8
	2.3 +2.0	<b>SOUND WEST</b>	
	2.3 +2.0	0+10	3.1 +1.0
	2.4 +1.9	(4.1)	3.1 +1.0
+50	2.6 +1.7	(10:50)	3.0 +1.1
	2.6		3.0
	2.6 +1.7	+50	3.0
	2.8 +1.5		3.0 +1.1



STA 133+00 4-4-51  
SOUND WEST

DIST	SOUND	DIST	SOUND
0+70	3.0 +1.1	2+60	2.7 +1.4
(4.1)	3.0	(4.1)	2.7 +1.4
	3.0 +1.1		2.5 +1.6
1+00	2.9 +1.2		2.5
	2.9 +1.2	3+00	2.5
	2.8 +1.3		2.5
	2.8		2.5
	2.8		2.5 +1.6
+50	2.8		2.4 +1.7
	2.8	+50	2.4
	2.8 +1.3		2.4 +1.7
	2.7 +1.4		2.2 +1.9
	2.7		2.2 +1.9
2+00	2.7		2.3 +1.8
	2.7	4+00	2.3 +1.8
	2.7		2.2 +1.9
	2.7		2.3 +1.8
	2.7		2.3
+50	2.7 +1.4		2.3 +1.8

STA 133+00 4-4-51  
SOUND WEST

DIST	SOUND	DIST	SOUND
4+50	2.4 +1.7	6+40	6.6 -2.5
(4.1)	2.2 +1.9	+50	7.5 -3.4
	2.3 +1.8	(4.1)	9.0 -4.9
	2.3 +1.8		9.4 -5.3
	2.4 +1.7		10.3 -6.2
5+00	2.5 +1.6		10.3 -6.2
	2.4 +1.7	7+00	10.5 -6.4
(10.59)	2.4		10.5 -6.4
	2.4 +1.7		10.2 -6.2
	2.5 +1.6		9.6 -5.5
+50	2.5 +1.6		8.0 -3.9
	3.0 +1.1	+50	6.7 -2.6
	3.4 +0.7		4.5 -0.4
	3.6 +0.5		2.0 +2.1
	4.0 +0.1		
6+00	4.5 -0.4		
	5.0 -0.9	8+00	
	5.5 -1.4		
	6.0 -1.9		



PX

7-4-51  
SOUND WEST

STA	SOUND	DIST	SOUND
134+00	0+00 = 14000W		
0+00	2.5 +1.3	1+80	2.4 +1.4
(11:08)	2.5	(3.8)	2.7 +1.1
(3.8)	2.5	2+00	2.7 +1.1
	2.5		2.5 +1.3
	2.5		2.2 +1.6
+50	2.5		2.2 +1.6
	2.5		2.4 +1.4
	2.5	+50	2.4 +1.4
	2.5		2.3 +1.5
	2.5 +1.3		2.3 +1.5
+100	2.4 +1.4		2.2 +1.6
	2.5 +1.3		2.2 +1.6
	2.4 +1.4	3+00	2.5 +1.3
(11:10)	2.4		2.4 +1.4
	2.4		2.4
+50	2.4		2.4
	2.4		2.4
	2.4 +1.4	+50	2.4 +1.4

STA 134+00  
SOUND WEST

(72)

PX

DIST	SOUND	DIST	SOUND
3+60	2.1 +1.6	5+50	1.9 +1.8
(3.7)	2.0 +1.7	(3.7)	2.0 +1.7
	2.1 +1.6		2.6 +1.1
	2.1		3.0 +0.7
	2.1		3.3 +0.4
(11:15)	2.1	6+00	3.8 -0.1
	2.1		4.0 -0.3
	2.1		4.6 -0.9
	2.1		5.2 -1.5
+50	2.1		6.0 -2.3
	2.1	+50	7.4 -3.7
	2.1		9.0 -5.3
	2.1 +1.6		10.0 -6.3
	2.0 +1.7		10.5 -6.8
5+00	2.0		11.0 -7.3
	2.0 +1.7	7+00	11.0 -7.3
	1.9 +1.8		10.5 -6.8
	1.9		10.0 -6.3
	1.9		8.4 -4.7
	1.9 +1.8		7.1 -3.4
			5.0 -1.3
			2.5 +1.2



DIST SOUND

7+40

+50

8+00

+50

9+00

DIST SOUND

9+30

+50

10+00

+50

11+00

DIST SOUND

11+20

+50

DIST SOUND















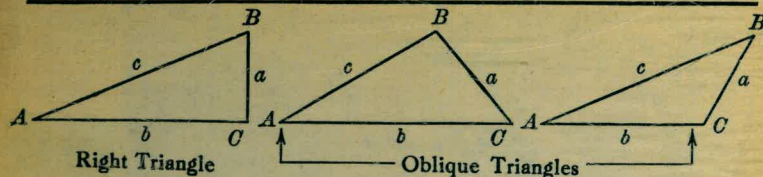
The image shows an open notebook with two facing pages. The pages are cream-colored and feature a grid of green horizontal lines and red vertical lines, creating a ledger-style layout. The right page has the number '77' written in the top right corner. The notebook is bound in the center, and the left edge shows the stacked pages of the notebook.







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

Solution of Oblique Triangles

Given	Required	Formulas
$A, B, a$	$b, c, C$	$b = \frac{a \sin B}{\sin A}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
$A, a, b$	$B, c, C$	$\sin B = \frac{b \sin A}{a}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
$a, b, C$	$A, B, c$	$A + B = 180^\circ - C, \tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ $c = \frac{a \sin C}{\sin A}$
$a, b, c$	$A, B, C$	$s = \frac{a + b + c}{2}, \sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}, C = 180^\circ - (A + B)$
$a, b, c$	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.  $\cos 5^\circ 10' = .9959, 1 - .9959 = .0041, 319.4 \times .0041 = 1.31, 319.4 - 1.31 = 318.09$  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.