MB146

thur 12-01

11:20 - 2.8

11:15 - 2.9

11:05 - 3.3

2:15 - 0.0

2:20 - 0.0

2:40 - 00

MON 12-05

11:25 5.2

11:30 5.2

11:40 5.0

122
688
810

172
688

348
688
1036

11.6 - 860

12.1 - 880 Top of S.

12.5 - 900

584
688
1272

940 - 15.0 Top S

920 - 15.7

(7.08)

450
688
1138

760
688
1448

25.85
2.08
23.77

670
688
1358

W 8700
688
9388

920
688
1608

840
688
1528

870
688
1558

STA. W105+00 = N5370

(STA. W.100+00
0+00 = N.5250 - IN. TOWER)

STA. W.110+00
0+00 = N.5520)

El. 12.50 - W.9600 T.Sh. Hub

MICROFILMED

MB No 146

5580
130
5710
40
5750

THIS BOOK INDEXED 2-14-62

Perry Withers
Jack Cramm - Drag line

TRIANGULATION FOR SHORE CONTROL
S'ELY. MISSION BAY W.O. 64501

STA	OBJECT	ANGLES
	N. Bone	1. 67°55'00'
N. 9187.40	R ↓	2. 135°49'40"
	N. 10486.23 / W. 8000.00	6. 407°29'00"
		AV. 67°54'50"
	N. BONE	1. 39°28'40"
N. 9187.40	R ↓	2. 78°57'20"
	Pat	6. 236°52'00"
		AV 39°28'40"
	Pat	1. 28°26'40"
N. 9187.40	R ↓	2 56°53'00"
	N. 10486.23	6 170°37'24"
		AV 28°26'14"
	S. Bone	1. 42°53'00"
N. 9187.40	R ↓	2. 85°45'30"
	N. Bone	6. 257°16'30"
		AV. 42°52'45"
	N. Bone	1. 66°20'00"
South Bone	R ↓	2. 132°40'00"
	N. 9187.40	6. 398°00'30"
		AV. 66°20'05"
	Pat	1. 57°03'10"
South Bone	R ↓	2. 114°06'20"
	N. 9187.40	6. 342°19'00"
		AV. 57°03'10"

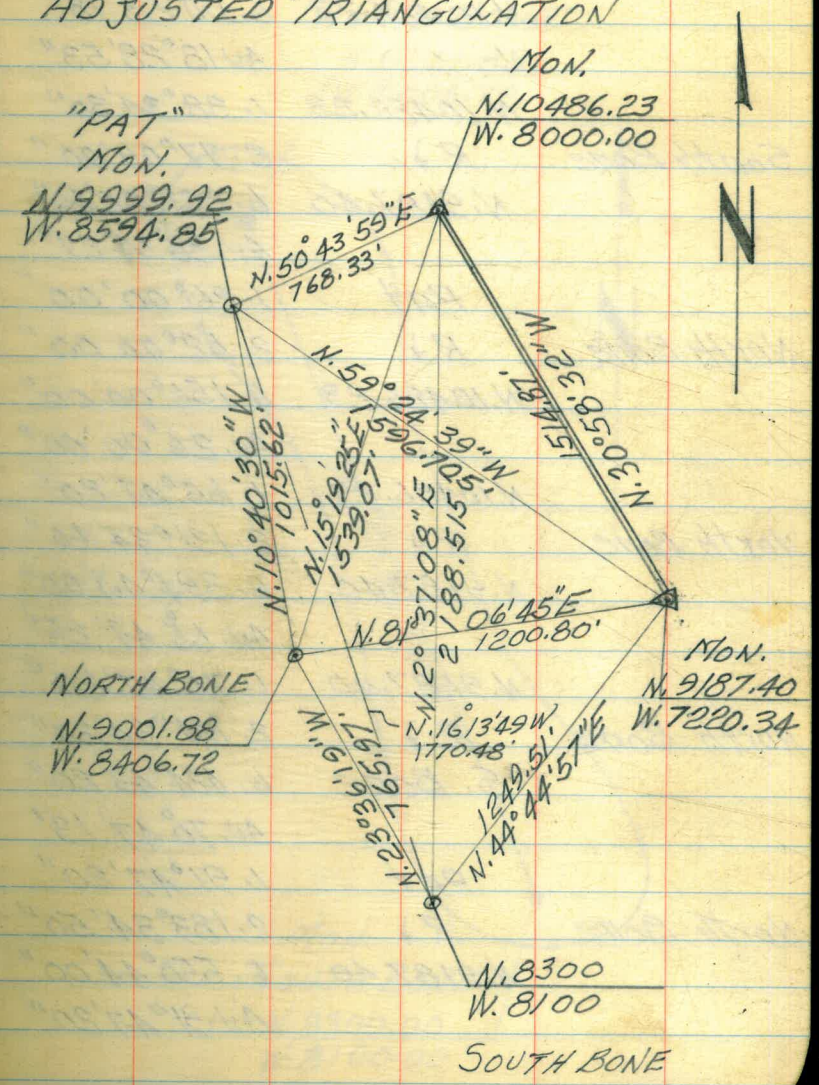
(Contd N'ly. M.B No 141)

①

Weather
Clear-Cool

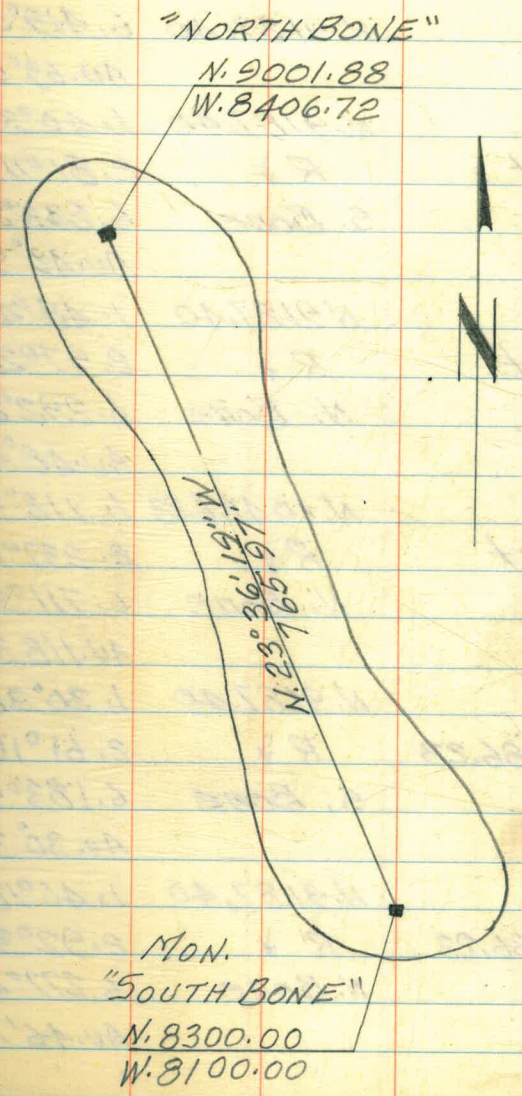
Stamper
Wentworth
Elmore
Hecht

ADJUSTED TRIANGULATION



STA.	OBJECT	ANGLES
	Pat.	1. 18°29'00"
South Bone	R↓	2. 36°58'00"
	N.10486.23	6. 110°53'18"
		AV 18°28'53"
	N.10486.23	1. 38°34'30"
South Bone	R↓	2. 77°09'00"
	N.9187.40	6. 231°26'40"
		AV. 38°34'27"
	Pat	1. 26°00'00"
North Bone	R↓	2. 52°00'00"
	N.10486.23	6. 156°00'00"
		Av. 26°00'00"
	N.10486.23	1. 65°47'20"
North Bone	R↓	2. 131°34'40"
	N.9187.40	6. 394°44'30"
		Av. 65°47'25"
	N.9187.40	1. 70°47'20"
North Bone	R↓	2. 141°34'30"
	S. Bone	6. 424°43'20"
		Av. 70°47'13"
	Pat	1. 91°47'20"
North Bone	R↓	2. 183°34'50"
	N.9187.40	6. 550°44'00"
		Av. 91°47'20"

11-23-60 Stamper



STA.	OBJECT	ANGLES
	N. 10486.23	1. 69°51'40"
Pat	R ↓	2. 139°43'00"
	N. 9187.40	6. 419°09'00
		Av. 69°51'30"
	N. 9187.40	1. 40°35'50"
Pat	R ↓	2. 81°11'40"
	S. Bone	6. 243°34'00"
		Av. 40°35'40"
	N 9187.40	1. 48°44'20"
Pat	R ↓	2. 97°28'40"
	N. Bone	6. 292°25'40"
		Av. 48°44'16"
	N. 10486.23	1. 118°35'20"
Pat	R ↓	2. 237°11'10"
	N. Bone	6. 711°33'40"
		Av. 118°35'37"
	N. 9187.40	1. 30°38'30"
N. 10486.23	R ↓	2. 61°16'50"
	S. Bone	6. 183°50'00"
		Av. 30°38'20"
	N. 9187.40	1. 46°18'00"
N. 10486.23	R ↓	2. 92°36'00"
	N. Bone	6. 277°48'00"
		Av. 46°18'00"

STA.	OBJECT	ANGLES
	N. 9187.40	1. 81°42'40"
N. 10486.23	R ↴	2. 163°25'20"
	Pat.	6. 490°15'50"
		AV. 81°42'38"
	N. Bone	1. 35°24'40"
N. 10486.23	R ↴	2. 70°49'30"
	Pat.	6. 212°28'00"
		AV. 35°24'40"

BASELINE CONTROL FOR DREDGING
CONTROL S'ELY. CABRILLO ISLAND

STA	B/L DIST.	BEARING	GRID ANGLE
"PAT" N.9999.92; W.8594.85	50.40'	N.7°58'11" W	S. TO E
N.99+50; W.8587.93	50.48'	N.7°58'11" W	
P.I. N.99+00; W.8581.00	50.225'	N.5°25'37" W	N. TO E. 97°58'11"
N.98+50; W.8576.25	"	"	S. TO E 84°34'23"
N.98+00; W.8571.50	"	"	
N.97+50; W.8566.75	50.225'	N.5°25'37" W	
P.I. N.97+00; W.8562.00	50.06'	N.2°51'45" E	N. TO E. 95°25'37"
N.96+50; W.8564.50	50.06'	N2°51'45" E	
P.I. N.96+00; W.8567.00	52.65'	N.18°15'46" E	N. TO E. 87°08'15"
N.95+50; W.8583.50	52.65'	N.18°15'46" E	
P.I. N.95+00; W.8600.00	69.80'	N.44°14'46" E	N. TO E. 71°44'14"
N.94+50; W.8648.70	37.69'	N.44°14'46" E	N. TO E. 45°45'14"
N.94+23; W.8675.00		N.32°29'59" W	S. TO E. 57°30'01"
	499.315'	"	
		"	
"NORTH BONE" N.90+01.88; W.8406.72			

NOTE: For Anchor Stakes Cont'd, N14, See MB No 141

ANCHOR STAKES	ANCHOR STAKES
N103+50-W8650	
N103-W8630	
N102+50-W8610	
N102-W8580	
N101+50-W8570	
N101-W8540	
N100+50-W8530	
W8510	
W8500	
W8490	
W8490	
W8490	
W8480	
W8470	
W8470	
W8480	
W8490	N107-W8900
W8500	N106+50-W8860
W.8500	N106-W8820
	N105+50-W8790
	N105-W8750
	N104+50-W8710
	N104-W8690

11-29-60

STA. N. 96+00: 0+00 = W. 8,480; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			1,4	10.4	9.0
1,3			50	10.4	9.0
				10.8	9.4
2:45	4.7	3.4		11.1	9.7
	7.0	5.7		11.4	10.0
50	7.2	5.9		11.1	9.7
	7.6	6.3	3+00	11.1	9.7
	7.9	6.6		11.0	9.6
	8.1	6.8	2:50	10.1	8.7
	8.4	7.1		10.1	8.7
1+00	8.7	7.4		10.1	8.7
	8.7	7.4	50	10.0	8.6
	8.9	7.6		10.0	8.6
	8.9	7.6		10.0	8.6
	9.2	7.9		10.3	8.9
50	9.3	8.0		10.4	9.1
	9.7	8.4	4+00	10.4	9.1
	9.9	8.6		11.2	9.8
	10.0	8.7		11.5	10.1
	10.1	8.8		12.0	10.6
2+00	10.2	8.9		12.0	10.6
	10.2	8.9	50	11.8	10.4
	10.5	9.2		10.1	8.7
	10.4	9.1		10.1	8.7

STA. N. 96+00 - EAST

Dist	Sound	Elev
1,4	10.2	8.8
	10.2	8.8
5+00	10.0	8.6
	10.3	8.9
	10.5	9.1
	10.4	9.0
	10.1	8.7
50	10.1	8.7
	9.1	7.7
	8.1	6.7
	6.1	4.7
	5.7	4.3
6+00	5.3	3.9
	5.5	4.1
	8.0	6.6
	9.0	7.6
Vertical →	7.1	5.7
6+42 –	0.0	+1.4

11-30-60

STA. N. 98+00; 0+00 = W84 90; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			3.6	10.8	7.2
3.6			50	11.0	7.4
				11.1	7.5
	4.2	0.6		11.0	7.4
	8.4	4.8		11.3	7.7
50	9.0	5.4		11.3	7.7
	9.3	5.7	3+00	11.9	8.3
10:15	10.0	6.4		12.0	8.4
	10.1	6.5		12.0	8.4
	10.1	6.5		12.0	8.4
1+00	10.2	6.6		12.0	8.4
	10.5	6.9	50	12.0	8.4
	10.4	6.8		12.1	8.5
	10.4	6.8		12.0	8.4
	10.4	6.8		12.0	8.4
50	10.7	7.1		12.0	8.4
	10.7	7.1	4+00	12.2	8.6
	10.8	7.2		12.2	8.6
	10.8	7.2		12.4	8.8
	10.8	7.2		12.7	9.1
2+00	10.9	7.3		12.7	9.1
	10.8	7.2	50	12.4	8.8
	10.8	7.2		12.1	8.5
	10.8	7.2		12.1	8.5

STA. N. 98+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
3.5	12.3	8.8			
	12.1	8.6			
5+00	12.5	9.0	50		
	12.1	8.6			
	12.0	8.5			
	12.1	8.6			
	12.8	9.3			
50	13.0	9.5	8+00		
	12.4	8.9			
	11.8	8.3			
	10.2	6.7			
	11.2	7.7			
6+00	11.9	8.4			
	12.0	8.5			
	11.0	7.5			
10:20	4.8	1.3			
	3.3	+0.2			
50					
7+00					

11-30-60

STA. N. 100+00; 0+00 = W. 8,510; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			32	11.9	8.7
3.3			50	11.7	8.5
	1.4	1.9		11.9	8.7
10:25	7.1	3.8		11.9	8.7
	9.1	5.8	10:30	11.9	8.7
50	10.5	7.2		11.8	8.6
	10.5	7.2	3+00	12.3	9.1
	10.8	7.5		11.7	8.5
	10.9	7.6		10.1	6.9
	11.0	7.7		10.4	7.2
1+00	11.2	7.9		10.4	7.2
	11.3	8.0	50	10.7	7.5
	11.4	8.1		10.9	7.7
	11.4	8.1		10.9	7.7
	11.7	8.4		11.1	7.9
50	11.7	8.4		11.0	7.8
	11.8	8.5	4+00	10.9	7.7
	11.6	8.3		11.0	7.8
	11.6	8.3		11.3	8.1
	11.8	8.5		11.5	8.3
2+00	11.8	8.5		11.4	8.2
	11.7	8.4	50	11.2	8.0
	11.9	8.6		11.1	7.9
	12.0	8.7		11.2	8.0

STA. N. 100+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
3	11.4	8.3			
	12.3	9.2			
5+00	12.2	9.1			
	12.1	9.0			
	10.0	6.9			
10:35	8.5	5.4			
	7.8	4.7			
50	6.6	3.5			
	4.7	1.6			
	2.4	+0.7			
6+00					
50					

11-30-60

STA. N. 102+00; 0+00 = W. 8,580; SOUND EAST

Dist	Sound	Elev
0+00		
2.7		
	0.8	+1.9
	3.9	1.2
50	6.9	4.2
	8.2	5.5
	8.9	6.2
10:55	9.3	6.6
	9.8	7.1
1+00	10.6	7.9
	10.8	8.1
	10.9	8.2
	11.1	8.4
	11.1	8.4
50	11.2	8.5
	11.2	8.5
	11.4	8.7
	11.6	8.9
	11.4	8.7
2+00	11.8	9.1
	12.0	9.3
	12.0	9.3
	12.0	9.3

Dist	Sound	Elev
27	12.0	9.3
50	11.8	9.1
	11.9	9.2
	11.8	9.1
	12.0	9.3
	12.0	9.3
3+00	11.7	9.0
	11.7	9.0
	11.8	9.1
	12.0	9.3
	12.0	9.3
50	12.0	9.3
	12.0	9.3
	12.0	9.3
	12.0	9.3
	11.6	8.9
4+00	11.9	9.2
	11.9	9.2
	11.9	9.2
	11.0	8.3
	11.3	8.6
50	11.3	8.6
	11.8	9.1
	12.0	9.3

STA. N. 102+00 - EAST

Dist	Sound	Elev
25	12.0	9.5
	12.0	9.5
5+00	11.9	9.4
	11.3	8.8
11:00	9.7	7.2
	6.7	4.2
	4.8	2.3
50	3.5	1.0
6+00		
50		

11-30-60

STA. N. 104+00; 0+00 = W. 8,690; SOUND EAST

Dist	Sound	Elev
0+00		
23		
11:10		
	1.1	+1.2
50	5.9	3.6
	7.5	5.2
	7.9	5.6
	8.0	5.7
	8.1	5.8
1+00	8.1	5.8
	8.2	5.9
	8.4	6.1
	8.8	6.5
	9.1	6.8
50	9.1	6.8
	9.3	7.0
	9.2	6.9
	9.3	7.0
	9.4	7.1
2+00	9.6	7.3
	9.7	7.4
	9.8	7.5
	9.8	7.5

Dist	Sound	Elev
23	9.9	7.6
50	10.0	7.7
	10.1	7.8
	10.5	8.2
	10.8	8.5
	10.6	8.3
3+00	10.7	8.4
	10.2	7.9
	10.0	7.7
	10.1	7.8
	10.0	7.7
50	10.1	7.8
	10.8	8.5
	10.7	8.4
	10.7	8.4
	10.9	8.6
4+00	10.9	8.6
	10.9	8.6
	10.8	8.5
	10.7	8.4
	10.6	8.3
50	10.7	8.4
	10.8	8.5
	10.7	8.4

STA. N. 104+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
22	10.7	8.5			
	10.6	8.4			
5+00	9.7	7.5			
	10.8	8.6			
11:15	11.2	9.0			
	11.2	9.0			
	11.3	9.1			
50	11.3	9.1			
	11.1	8.9			
	10.8	8.6			
	10.0	7.8			
	8.6	6.4			
6+00	7.3	5.1			
	2.4	0.2			
50					

11-30-60

STA. N. 106+00; 0+00 = W. 8,820; SOUND EAST

Dist	Sound	Elev
0+00		
1.7		
	2.0	0.3
50	6.0	4.3
	7.8	6.1
11:35	8.3	6.6
	8.8	7.1
	8.8	7.1
1+00	9.0	7.3
	9.0	7.3
	9.2	7.5
	9.3	7.6
	9.5	7.8
50	9.8	8.1
	9.9	8.2
	10.0	8.3
	10.1	8.4
	10.3	8.6
2+00	10.6	8.9
	10.8	9.1
	10.4	8.7
	10.4	8.7

Dist	Sound	Elev
1.7	10.2	8.5
50	10.1	8.4
	10.3	8.6
	10.9	9.2
	10.9	9.2
	10.6	8.9
3+00	10.4	8.7
	10.6	8.9
	10.8	9.1
	10.1	8.4
	9.8	8.1
50	10.9	9.2
	11.2	9.5
	11.2	9.5
	10.6	8.9
	10.0	8.3
4+00	9.0	7.3
	9.2	7.5
	9.8	8.1
	10.0	8.3
	10.0	8.3
50	10.1	8.4
	10.1	8.4
	10.1	8.4

STA. N. 106+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
1.6	10.0	8.4			
	10.0	8.4			
5+00	10.0	8.4			
	10.0	8.4			
11:40	10.0	8.4			
	10.0	8.4			
	10.0	8.4			
50	10.0	8.4			
	9.8	8.2			
	9.5	7.9			
	9.5	7.9			
	9.5	7.9			
6+00	9.5	7.9			
	9.0	7.4			
	9.0	7.4			
	8.8	7.2			
	8.4	6.8			
50	8.2	6.6			
	8.0	6.4			
	7.7	6.1			
	7.5	5.9			
	7.2	5.6			
7+00	5.3	3.7			
	2.0	0.4			

11-30-60

STA. N. 108+00: 0+00 = W. 8,980: SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			0.4	5.3	4.9
0.4			50	5.3	4.9
				5.5	5.1
				5.7	5.3
	2.0	1.6		5.9	5.5
50	4.6	4.2		6.5	6.1
	7.1	6.7	3+00	7.3	6.9
1+10	8.9	8.5		7.3	6.9
	9.1	8.7	1+15	7.6	7.2
	9.2	8.8		7.8	7.4
1+00	9.7	9.3		7.9	7.5
	8.5	8.1	50	7.9	7.5
	7.3	6.9		8.0	7.6
	7.0	6.6		7.9	7.5
	7.1	6.7		8.1	7.7
50	8.1	7.7		8.0	7.6
	7.3	6.9	4+00	8.0	7.6
	7.0	6.6		7.5	7.1
	6.8	6.4		7.0	6.6
	6.1	5.7		6.9	6.5
2+00	5.7	5.3		6.8	6.4
	5.6	5.2	50	6.9	6.5
	5.6	5.2		6.9	6.5
	5.5	5.1		6.9	6.5

STA. N. 108+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
0.3	6.8	6.5	0.3	6.6	6.3
	7.0	6.7		6.9	6.6
5+00	7.3	7.0	50	6.9	6.6
	7.4	7.1		5.7	5.4
	7.1	6.8		4.6	4.3
1+20	7.4	7.1	1+25	4.0	3.7
	7.6	7.3		3.6	3.3
50	7.8	7.5	8+00	2.7	2.4
	7.1	6.8		2.0	1.7
	7.1	6.8		1.4	1.1
	7.5	7.2			
	7.4	7.1			
6+00	7.4	7.1	50		
	7.7	7.4			
	7.6	7.3			
	6.9	6.6			
	6.5	6.2			
50	6.3	6.0			
	6.6	6.3			
	6.5	6.2			
	6.4	6.1			
	6.6	6.3			
7+00	6.4	6.1			
	6.3	6.0			
	6.4	6.1			

(Red) 11-30-60

STA. N. 110+00 S 0+00 = W. 9,160: SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			5+3	7.9	7.6
0.3			50	7.0	6.7
				7.4	7.1
				7.7	7.4
			1:55	7.8	7.5
				7.8	7.5
50					
	2.0	1.7	3+00	7.9	7.6
1:50	5.2	4.9		7.9	7.6
	5.9	5.6		7.9	7.6
	6.2	5.9		7.9	7.6
1+00	6.6	6.3		8.0	7.7
	6.8	6.5	50	7.9	7.6
	7.3	7.0		7.9	7.6
	7.1	6.8		8.0	7.7
	6.1	5.8		8.0	7.7
50	7.0	6.7		8.0	7.7
	6.0	5.7	4+00	8.1	7.8
	6.3	6.0		8.2	7.9
	6.3	6.0		8.8	8.5
	6.8	6.5		8.9	8.6
2+00	7.8	7.5		8.1	7.8
	7.8	7.5	50	8.3	8.0
	7.9	7.6		8.3	8.0
	8.0	7.7		8.1	7.8

STA. N. 110+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
0.3	7.9	7.6	0.3	9.7	9.4
	7.3	7.0		9.3	9.0
5+00	6.9	6.6	50	8.0	7.7
	6.3	6.0		7.9	7.6
	6.1	5.8		8.0	7.7
	6.3	6.0		7.7	7.4
	6.4	6.1		7.9	7.6
50	6.9	6.6	8+00	7.9	7.6
	7.2	6.9		7.9	7.6
	7.3	7.0		7.0	6.7
	7.4	7.1		7.3	7.0
	7.8	7.5		7.0	6.7
6+00	7.9	7.6	50	7.0	6.7
	7.7	7.4		7.2	6.9
	7.8	7.5		7.1	6.8
2:00	7.9	7.6		7.1	6.8
	8.1	7.8		7.1	6.8
50	8.3	8.0	9+00	7.0	6.7
	8.3	8.0		7.1	6.8
	8.4	8.1		6.7	6.4
	8.4	8.1		6.4	6.1
	8.9	8.6		6.3	6.0
7+00	9.1	8.8	50	6.4	6.1
	9.3	9.0		6.6	6.3
	9.5	9.2		6.4	6.1

STA. N. 110+00 - EAST 11-30-60

Dist	Sound	Elev
0.3	6.9	6.6
	6.7	6.4
10+00	6.8	6.5
	6.8	6.5
2:05	6.4	6.1
	5.7	5.4
	4.6	4.3
50		

11-30-60

STA. N. 112+00; 0+00 = W. 9,310; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			0.4	7.9	7.5
0.3			50	8.1	7.7
				8.7	8.3
				7.6	7.2
				7.1	6.7
50	3.0	2.7		7.1	6.7
	6.9	6.6	3+00	7.2	6.8
2:15	7.1	6.8		7.1	6.7
	7.2	6.9		7.6	7.2
	7.4	7.1		7.8	7.4
1+00	6.7	6.4	2:25	7.9	7.5
	7.0	6.7	50	7.9	7.5
	7.3	7.0		7.1	6.7
	7.6	7.3		7.1	6.7
	7.5	7.2		6.8	6.4
50	7.3	7.0		7.0	6.6
	7.6	7.3	4+00	7.7	7.3
	8.0	7.7		8.0	7.6
	8.1	7.8		8.0	7.6
	8.6	8.3		8.2	7.8
2+00	8.2	7.9		8.0	7.6
	8.0	7.7	50	7.7	7.3
2:20	7.6	7.3		8.0	7.6
	8.2	7.9		8.1	7.7

STA. N. 112+00 - EAST 11-30-60

Dist	Sound	Elev	Dist	Sound	Elev
0.4	7.7	7.3	0.4	10.1	9.7
	7.4	7.0		10.4	10.0
1.5+00	7.2	6.8	50	10.1	9.7
	7.5	7.1		10.0	9.6
	7.3	6.9		9.9	9.5
2;30	7.4	7.0		9.6	9.2
	7.4	7.0		9.0	8.6
50	7.9	7.5	8+00	9.0	8.6
	8.4	8.0		10.2	9.8
	9.0	8.6		10.1	9.7
	10.3	9.9		9.3	8.9
	9.5	9.1		10.1	9.7
6+00	10.0	9.6	50	9.3	8.9
	11.1	10.7		9.3	8.9
	10.1	9.7		10.7	10.3
	9.7	8.3		10.2	9.8
	9.7	8.3		10.5	10.1
50	10.2	9.8	9+00	10.0	9.6
	10.3	9.9		10.6	10.2
	10.7	10.3		10.6	10.2
	9.4	9.0	2;35	10.0	9.6
	10.0	9.6		9.3	8.9
7+00	10.0	9.6	50	9.5	9.1
	10.0	9.6		10.0	9.6
	10.0	9.6		10.7	10.3

STA. N. 112+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
0.5	10.3	9.8			
	9.8	9.3			
10+00	8.9	8.4	50		
	9.8	9.3			
	9.3	8.8			
	9.2	8.7			
	9.3	8.8			
50	10.2	9.7			
	9.9	9.4			
	10.1	9.6			
	10.2	9.7			
	9.5	9.0			
11+00	9.6	9.1			
	10.0	9.5			
	9.8	9.3			
	10.0	9.5			
	10.7	10.2			
50	9.1	8.6			
	11.9	11.5			
2;40	10.4	9.9			
	9.8	9.3			
	9.6	9.1			
12+00	7.7	7.2			
	5.1	4.6			
	1.0	0.5			

12-01-60

STA. N. 114+00; 0+00 = W. 9,390 ; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			40	11.5	7.5
41			50	11.0	7.0
	1.9	+2.2		10.9	6.9
10:25	5.1	1.0		10.8	6.8
	10.1	6.0	10:30	11.0	7.0
50	11.1	7.0		11.2	7.2
	11.3	7.2	3+00	11.7	7.7
	11.5	7.4		11.8	7.8
	11.7	7.6		12.1	8.1
	12.1	8.0		12.6	8.6
1+00	12.1	8.0		13.5	9.5
	12.2	8.1	50	13.7	9.7
	12.1	8.0		12.7	8.7
	12.1	8.0		12.1	8.1
	12.1	8.0		12.0	8.0
50	12.0	7.9		11.8	7.8
	12.1	8.0	4+00	11.7	7.7
	12.3	8.2		11.4	7.4
	12.2	8.1		11.4	7.4
	12.1	8.0		11.7	7.7
2+00	12.0	7.9		12.3	8.3
	12.0	7.9	50	12.5	8.5
	12.1	8.0		12.9	8.9
	11.6	7.5		12.6	8.6

STA. N. 114+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
39	12.6	8.7	38	12.0	8.2
	12.7	8.8		12.8	9.0
5+00	12.7	8.8	50	13.6	9.8
	12.7	8.8		14.5	10.7
	12.9	9.0	10:40	13.5	9.7
10:35	13.0	9.1		13.0	9.2
	11.9	8.0		13.4	9.6
50	12.9	9.0	8+00	13.9	10.1
	12.3	8.4		13.9	10.1
	12.1	8.2		13.8	10.0
	11.9	8.0		13.1	9.3
	11.1	7.2		13.0	9.2
6+00	10.9	7.0	50	13.5	9.7
	10.9	7.0	37	13.5	9.8
	10.9	7.0	10:45	13.2	9.5
	10.9	7.0		13.0	9.3
	10.6	7.7		13.0	9.3
50	10.8	7.9	9+00	13.1	9.4
	10.4	6.5		13.0	9.3
	10.7	6.8		12.5	8.8
	10.9	7.0		12.4	8.7
	11.1	7.2		12.6	8.9
7+00	12.5	8.6	50	12.5	8.8
	13.0	9.1		12.8	9.1
	12.0	8.1		13.0	9.3

STA. N. 114+00 - EAST 12-01-60

Dist	Sound	Elev	Dist	Sound	Elev
36	13.5	9.9	3.5	11.0	7.5
	12.4	8.8		11.4	7.9
10+00	13.0	9.4	50	11.6	8.1
	12.0	8.4		11.3	7.8
	12.0	8.4		11.8	8.3
10:50	11.7	8.1		11.9	8.4
	12.7	9.1		11.9	8.4
50	13.0	9.4	13+00	10.6	7.1
	12.6	9.0		9.9	6.4
	12.6	9.0	10:55	6.8	3.3
	12.1	8.5		2.0	+1.5
	11.9	8.3			
11+00	11.7	8.1	50		
	11.9	8.3			
	11.6	8.0			
	12.1	8.5			
	12.1	8.5			
50	12.3	8.7	14+00		
	12.3	8.7			
	12.6	9.0			
	12.0	8.4			
	11.6	8.0			
12+00	13.3	9.7			
	12.3	8.7			
	12.5	8.9			

12-01-60

STA. N. 116+00 : 0+00 = W. 9,430 ; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			2.6	10.1	7.5
2.7			50	10.6	8.0
	0.0	+2.7		10.6	8.0
11:25	2.4	+0.3		11.0	8.4
	9.1	6.4		11.7	9.1
50	10.3	7.6		12.0	9.4
	10.7	8.0	3+00	12.2	9.6
	10.9	8.2		12.3	9.7
	10.4	7.7	11:30	12.0	9.4
	11.0	8.3		12.0	
1+00	11.1	8.4		12.0	
	11.1		50	12.0	
	11.1			12.0	
	11.1			12.0	
	11.1	8.4		12.0	
50	11.0	8.3		12.0	9.4
	11.0		4+00	12.5	9.9
	11.0			12.6	10.0
	11.0			12.2	9.6
	11.0			11.6	9.0
2+00	11.0			11.5	8.9
	11.0	8.3	50	11.1	8.5
	10.8	8.1		11.2	8.6
	10.3	7.6		12.0	9.[illegible]

STA. N. 116+00 - EAST 12-01-60

Dist	Sound	Elev	Dist	Sound	Elev
26	12.0	9.4	25	11.2	8.7
	12.0			10.8	8.3
5+00	12.0		50	10.9	8.4
	12.0			11.0	8.5
	12.0		11:35	11.0	
	12.0			11.0	
	12.0			11.0	
50	12.0		8+00	11.0	8.5
	12.0	9.4		11.3	8.8
	11.7	9.1		11.9	9.4
	11.9	9.3		12.6	10.1
	12.3	9.7		12.9	10.4
6+00	12.5	9.9	50	11.4	8.9
	11.2	8.6		11.2	8.7
	11.8	9.2		11.2	8.7
	12.8	9.2		11.2	8.7
	11.8	9.2		11.7	9.2
50	11.1	8.5	9+00	12.0	9.5
	11.2	8.6		12.0	9.5
	11.2	8.6		11.8	9.3
	11.3	8.7		12.0	9.5
	11.4	8.8		12.0	9.5
7+00	11.2	8.6	50	12.2	9.7
	11.3	8.7		12.1	9.6
	11.1	8.5		11.7	9.2

STA. N. 116+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
24	12.0	9.6	23	10.9	8.6
	12.0	9.6		10.7	8.4
10+00	11.4	10.0	50	10.6	8.3
	12.4	10.0		10.4	8.1
	12.4	10.0		11.0	8.7
	12.1	9.7		11.2	8.9
	12.0	9.6		11.0	8.7
50	13.0	10.6	13+00	11.7	9.4
	12.1	9.7		12.7	10.4
	12.8	10.4		11.8	9.5
	12.1	9.7		10.9	8.6
	12.7	10.3		12.0	9.7
11+00	13.1	10.7	50	11.2	8.9
	11.9	9.5		11.9	9.6
11:40	11.2	8.8		9.8	7.5
	12.1	9.7	11:45	9.6	7.3
	11.8	9.4		5.0	2.7
50	11.3	8.9	14+00	1.0	+1.3
	11.5	9.1			
	11.3	8.9			
	11.3	8.9			
	11.1	8.7			
12+00	11.0	8.6			
	10.9	8.5			
	10.6	8.2			

12-01-60

STA. N. 118+00: 0+00 = W. 9,410: SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			0.3	7.7	7.4
0.3			50	7.8	7.5
				8.0	7.7
				8.0	
	5.2	4.9		8.0	
50	7.1	6.8		8.0	7.7
	8.3	8.0	3+00	8.3	8.0
1:25	8.3	8.0		8.5	8.2
	8.1	7.8		8.9	8.6
	8.2	7.9		8.8	8.5
1+00	8.2			8.5	8.2
	8.2		50	8.2	7.9
	8.2	7.9		8.2	7.9
	8.5	8.2		8.3	8.0
	8.8	8.5		8.5	8.2
50	8.9	8.6		8.4	8.1
	8.9	8.6	4+00	8.5	8.2
	8.9	8.6		8.7	8.4
	8.5	8.2		8.7	8.4
	8.1	7.8		8.9	8.6
2+00	8.0	7.7		8.4	8.1
	8.0	7.7	50	9.6	9.5
	7.6	7.3		9.8	9.5
	7.5	7.2		9.8	9.5

STA. N. 118+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
0.2	9.8	8.6	0.2	8.2	8.0
	8.8	8.6		8.0	7.8
5+00	8.5	8.3	50	8.0	
	8.9	8.7		8.0	
	9.0	8.8		8.0	
	8.7	8.5		8.0	
	9.0	8.8		8.0	7.8
50	9.1	8.9	8+00	8.4	8.2
	9.6	9.4		8.8	8.6
	9.8	9.6		9.1	8.9
	10.0	9.8		10.0	9.8
	10.0	9.8		10.2	10.0
6+00	9.6	9.4	50	10.9	10.7
	9.3	9.1		11.3	11.1
	9.8	9.6		10.3	10.1
1:30	9.8	9.6		10.8	10.6
	9.4	9.2		11.2	11.0
50	9.4	9.2	9+00	11.1	10.9
	9.5	9.3		10.4	10.2
	9.0	8.8		9.9	9.7
	9.6	9.4		9.8	9.6
	9.0	8.8		10.0	9.8
7+00	8.7	8.5	50	10.5	10.3
	8.4	8.2		10.0	9.8
	8.2	8.0		10.4	10.2

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STA. N. 118+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
0.2	10.8	10.6	0.2	9.8	9.6
	10.6	10.4		9.1	8.9
10+00	10.2	10.0	50	9.6	9.4
	9.5	9.3		9.2	9.0
	10.1	9.9		9.5	9.3
1:35	9.4	9.2		9.3	9.1
	10.0	9.8		9.3	9.1
50	10.2	10.0	13+00	9.0	8.8
	9.3	9.1		8.9	8.7
	10.0	9.8		8.9	8.7
	10.1	9.9		9.5	9.3
	9.9	9.7		9.3	9.1
11+00	9.7	9.5	50	9.8	9.6
	10.0	9.8		8.8	8.6
	10.0			9.4	9.2
	10.0			9.9	9.7
	10.0			9.2	9.0
50	10.0		14+00	9.4	9.2
	10.0			8.8	8.6
	10.0			9.4	9.2
	10.0	9.8	1:40	7.4	7.2
	9.8	9.6		5.9	5.7
12+00	9.4	9.2	50		
	9.4	9.2			
	9.4	9.2			

12-01-60

STA. N. 120+00: 0+00 = W. 9.360; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			0.0	8.0	8.0
0.0			50	7.3	7.3
	From I reduced			7.4	7.4
	This Sec. T.A.S.			7.4	7.4
	4.3	4.3		7.4	7.4
50	8.2	8.2		7.7	7.7
	8.7	8.7	3+00	7.9	7.9
2:50	9.0	9.0		8.1	8.1
	8.9	8.9		7.9	7.9
	8.7	8.7		8.0	8.0
1+00	8.7	8.7		8.0	8.0
	8.8	8.8	50	8.1	8.1
	8.8	8.8		8.2	8.2
	8.7	8.7		8.3	8.3
	8.7	8.7		8.7	8.7
50	8.9	8.9		8.8	8.8
	9.1	9.1	4+00	8.1	8.1
	8.9	8.9		7.3	7.3
	8.8	8.8		7.7	7.7
	8.8	8.8		7.8	7.8
2+00	8.7	8.7		7.8	7.8
	8.5	8.5	50	7.8	7.8
	8.6	8.6		7.9	7.9
	8.4	8.4		7.8	7.8

STA. N. 120+00 - EAST 12-01-60

Dist	Sound	Elev	Dist	Sound	Elev
0.1	7.8	7.7	0.1	7.3	7.2
	7.9	7.8		7.4	7.3
5+00	7.9	7.8	50	7.3	7.2
	8.1	8.0		7.4	7.3
	8.2	8.1		7.4	7.3
	8.3	8.2		7.5	7.4
	8.2	8.1		7.4	7.3
50	8.2	8.1	8+00	8.8	8.7
	8.3	8.2		8.3	8.2
	8.3	8.2		9.3	9.2
2:55	8.4	8.3		8.8	8.7
	8.2	8.1		9.1	9.0
6+00	8.3	8.2	50	9.5	9.4
	8.0	7.9		9.9	9.8
	7.9	7.8		9.9	9.8
	7.7	7.6		9.8	9.7
	7.4	7.3		9.8	9.7
50	7.7	7.6	9+00	9.8	9.7
	7.7	7.6		9.8	9.7
	7.9	7.8		9.5	9.4
	7.9	7.8		9.4	9.3
	7.8	7.7		9.6	9.5
7+00	7.7	7.6	50	9.8	9.7
	7.6	7.5		9.5	9.4
	7.3	7.2		8.4	8.3

STA. N. 120+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
0.1	9.3	9.2	0.2	9.5	9.3
	9.6	9.5		9.3	9.1
10+00	8.8	8.7	50	9.3	9.1
	9.2	9.1		9.2	9.0
3:00	9.2	9.1	3:05	9.3	9.1
	9.3	9.2		9.3	9.1
	9.8	9.7		9.2	9.0
50	9.1	9.0	13+00	9.3	9.1
	9.6	9.5		9.3	
	10.0	9.9		9.3	
	8.3	8.2		9.3	9.1
	8.3	8.2		9.1	8.9
11+00	8.7	8.6	50	9.2	9.0
	8.9	8.8		9.2	9.0
	9.1	9.0		9.3	9.1
	9.3	9.2		9.4	9.2
	9.3	9.2		9.4	9.2
50	9.5	9.4	14+00	9.5	9.3
	8.8	8.7		9.5	9.3
	9.3	9.2		9.3	9.1
	9.4	9.3		7.1	6.9
	9.4	9.3		6.2	6.0
12+00	9.3	9.2	50	4.6	4.4
	9.4	9.3			
	9.7	9.6			

12-02-60

STA. N. 122+00; 0+00 = W. 9230: SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			1.5	10.8	9.3
1.5			50	10.5	9.0
				9.4	7.9
				10.2	8.7
	1.2	+0.3		10.3	8.8
50	2.8	1.3		9.8	8.3
	6.5	5.0	3+00	10.1	8.6
12:45	9.7	8.2		10.9	9.4
	10.2	8.7		10.2	8.7
	10.9	9.4		9.9	8.4
1+00	11.0	9.5		10.7	9.2
	10.9	9.4	50	11.0	9.5
	10.8	9.3		11.2	9.7
	10.8	9.3		10.4	8.9
	10.7	9.2		10.4	8.9
50	10.7	9.2		10.9	9.4
	10.9	9.4	4+00	10.9	9.4
	10.4	8.9		9.8	8.3
	10.8	9.3		10.4	8.9
	10.5	9.0		10.4	8.9
2+00	10.4	8.9		10.5	9.0
	10.7	9.2	50	10.6	9.1
	10.7	9.2		10.2	8.7
	10.8	9.3		10.1	8.6

STA. N. 122+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
1.4	9.6	8.2	1.3	10.7	9.4
	9.9	8.5		10.9	9.6
5+00	10.0	8.6	50	11.5	10.2
	10.1	8.7		12.0	10.7
12:50	10.4	9.0		12.0	10.7
	10.9	9.5		12.1	10.8
	10.9	9.5		12.1	10.8
50	10.8	9.4	8+00	12.1	10.8
	11.0	9.6		11.7	10.4
	10.6	9.2		11.9	10.6
	10.8	9.4		12.0	10.7
	10.9	9.5		10.1	8.8
6+00	10.9	9.5	50	10.0	8.7
	11.0	9.6		9.7	8.4
	10.9	9.5		9.3	8.0
	10.9	9.5	12:55	9.3	8.0
	10.6	9.2		9.5	8.2
50	10.9	9.5	9+00	9.7	8.4
	11.0	9.6		9.7	8.4
	10.7	9.3		9.2	7.9
	10.7	9.3		9.4	8.1
	10.9	9.5		9.7	8.4
7+00	11.3	9.9	50	9.8	8.5
	11.2	9.8		9.8	8.5
	10.8	9.4		9.5	8.2

STA. N. 122+00 - EAST 12-02-60

Dist	Sound	Elev	Dist	Sound	Elev
1.3	9.4	8.1	1.2	10.9	9.7
	9.7	8.4		10.9	9.7
10+00	9.9	8.6	50	11.1	9.9
	10.2	8.9		11.3	10.1
	11.0	9.7	1;00	10.8	9.6
	10.9	9.6		11.0	9.8
	11.0	9.7		10.0	8.8
50	11.4	10.1	13+00	10.9	9.7
	11.4	10.1		10.4	9.2
	10.9	9.6		10.8	9.6
	11.2	9.9		10.9	9.7
	12.0	10.7		10.5	9.3
11+00	11.5	10.2	50	10.1	8.9
	11.3	10.0		10.2	9.0
	11.1	9.8		10.0	8.8
	11.2	9.9		9.0	7.8
	10.9	9.6		6.6	5.4
50	10.9	9.6	14+00	1.1	+0.1
	10.9	9.6			
	11.1	9.8			
	10.8	9.5			
	10.9	9.6			
12+00	11.0	9.7	50		
	11.1	9.8			
	11.1	9.8			

STA. N. 124+00 : 0+00 = W. 8920 : SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			0.7	9.5	8.8
0.7			50	9.8	9.1
				9.2	8.5
				8.8	8.1
				9.8	9.1
50				8.7	8.0
			3+00	10.0	9.3
1;35				10.0	9.3
				10.0	9.3
				10.0	9.3
1+00				10.0	9.3
			50	10.0	9.3
	1.0	+0.3		10.0	9.3
	5.9	5.2		10.3	8.6
	7.0	6.3		10.1	8.4
50	8.4	7.7		10.0	9.3
	8.7	8.0	4+00	10.0	9.3
	9.6	8.9		9.6	8.9
	8.8	8.1		9.4	8.7
	9.1	8.4		9.8	9.1
2+00	9.0	8.3		9.9	9.2
	8.9	8.2	50	9.8	9.1
	9.9	9.2		9.0	8.3
	9.4	8.7		9.8	9.1

STA. N. 124+00 - EAST 12-02-60

Dist	Sound	Elev	Dist	Sound	Elev
0.6	9.7	9.1	0.6	9.5	8.9
	9.0	8.4		9.5	8.9
5+00	9.0	8.4	50	9.7	9.1
	9.6	9.0		9.9	9.3
1:40	10.0	9.4		10.6	10.0
	9.6	9.0		10.4	9.8
	9.1	8.5		11.0	10.4
50	9.0	8.4	8+00	11.2	10.6
	7.8	7.2		10.9	10.3
	8.2	7.6		11.0	10.4
	9.3	8.7		11.0	10.4
	9.2	8.6		11.0	10.4
6+00	9.0	8.4	50	11.0	10.4
	8.7	8.1		9.0	8.4
	8.8	8.2	1:45	9.1	8.5
	8.4	7.8		10.0	9.4
	7.6	7.0		10.0	9.4
50	8.0	7.4	9+00	9.2	8.6
	7.8	7.2		9.5	8.9
	8.0	7.4		10.0	9.4
	8.6	8.0		10.2	9.6
	9.0	8.4		10.4	9.8
7+00	8.8	8.2	50	10.0	9.4
	9.3	8.7		10.2	9.6
	9.5	8.9		10.3	9.7

STA. N. 124+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
0.6	10.2	9.6			
	10.4	9.8			
10+00	10.0	9.4	50		
	10.2	9.6			
	10.0	9.4			
	10.3	9.7			
	8.9	8.3			
50	8.9	8.3	13+00		
	9.0	8.4			
	9.0	8.4			
	9.1	8.5			
	9.4	8.8			
11+00	9.1	8.5	50		
	8.8	8.2			
	8.7	8.3			
	8.7	8.3			
	8.2	7.6			
50	7.6	7.0	14+00		
	8.0	7.4			
	7.8	7.2			
	4.1	3.5			
12+00					

12-02-60

STA. N. 126+00: 0+00 = W. 8,450 ; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			0.4	9.2	8.8
0.4			50	9.4	9.0
				9.2	8.8
				8.9	8.5
				9.0	8.6
50				9.0	8.6
			3+00	8.7	8.3
	1.4	1.0		9.0	8.6
	4.0	3.6		8.9	8.5
	8.0	7.6		8.8	8.4
1+00	8.2	7.8		9.7	9.3
	8.8	8.4	50	7.8	7.4
2.00	8.2	7.8		8.0	7.6
	9.1	8.7		7.8	7.4
	8.9	8.5		7.9	7.5
50	9.0	8.6		8.0	7.6
	9.0	8.6	4+00	8.3	7.9
	9.0	8.6		8.8	8.4
	9.1	8.7		8.8	8.4
	9.0	8.6		8.9	8.5
2+00	9.2	8.8		9.0	8.6
	9.3	8.9	50	9.2	8.8
	9.2	8.8		9.3	8.9
	9.2	8.8		9.0	8.6

STA. N. 126+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
0.3	8.8	8.5	0.3	8.8	8.5
	8.2	7.9		8.5	8.2
5+00	8.1	7.8	50	8.2	7.9
	8.0	7.7		7.9	7.6
	8.0	7.7		7.0	6.7
	7.8	7.5		6.2	5.9
	8.2	7.9		1.7	1.4
50	8.5	8.2	8+00		
	8.3	8.0			
2.05	8.2	7.9			
	8.3	8.0			
	8.6	8.3			
6+00	8.4	8.1			
	8.5	8.2			
	8.4	8.1			
	8.8	8.5			
	8.7	8.4			
50	8.7	8.4			
	8.8	8.5			
	8.9	8.6			
	9.0	8.7			
	8.9	8.6			
7+00	8.8	8.5			
	8.8	8.5			
	8.8	8.5			

12-02-60

STA. N. 128+00; 0+00 = W. 8210; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			0.1	8.9	8.8
0.1			50	8.6	8.5
				8.7	8.6
				9.0	8.9
				9.3	9.2
50				9.3	9.2
	2.0	1.9	3+00	9.7	9.6
2:32	6.1	6.0		10.0	9.9
	7.1	7.0		10.1	10.0
	7.7	7.6		10.0	9.9
1+00	8.9	8.8		8.7	8.6
	8.9	8.8	50	8.2	8.1
	8.3	8.2		8.3	8.2
	8.9	8.8		8.5	8.4
	9.0	8.9		8.8	8.7
50	9.1	9.0		8.7	8.6
	9.3	9.2	4+00	8.8	8.7
	9.2	9.1		9.0	8.9
	9.9	9.8	2:35	9.0	8.9
	9.0	8.9		9.1	9.0
2+00	9.2	9.1		9.1	9.0
	9.6	9.5	50	9.5	9.4
	9.5	9.4		9.2	9.1
	10.0	9.9		9.3	9.2

STA. N. 128+00 - EAST

Dist	Sound	Elev
0.1	9.5	9.4
	9.4	9.3
5+00	9.0	8.9
	9.0	8.9
	9.0	8.9
	9.0	8.9
	9.0	8.9
50	8.8	8.7
	8.4	8.3
	8.4	8.3
	8.4	8.3
	8.5	8.4
6+00	8.0	7.9
	7.4	7.3
	5.9	5.8

12-02-60

STA. N. 130+00, 0+00 = W. 8.080

Dist	Sound	Elev
0+00		
0.1		
	2.0	1.9
50	5.1	5.0
	6.9	6.8
2.50	7.8	7.7
	7.9	7.8
	8.0	7.9
1+00	8.3	8.2
	8.2	8.1
	8.2	8.1
	8.3	8.2
	8.4	8.3
50	8.3	8.2
	8.4	8.3
	8.3	8.2
	8.3	8.2
	8.4	8.3
2+00	8.5	8.4
	8.4	8.3
	8.3	8.2
	8.3	8.2

SOUND EAST

Dist	Sound	Elev
0.1	8.4	8.3
50	8.5	8.4
	8.5	8.4
	8.7	8.6
	8.9	8.8
	8.9	8.8
3+00	8.8	8.7
	8.8	8.7
	8.8	8.7
	8.7	8.6
	8.3	8.2
50	8.3	8.2
	8.3	8.2
	8.2	8.1
	8.3	8.1
	8.4	8.3
4+00	8.8	8.7
	8.3	8.2
	8.2	8.1
	8.0	7.9
	8.0	7.9
50	8.0	7.9
	8.1	8.0
	8.1	8.0

STA. N. 130+00 - EAST

Dist	Sound	Elev
0.0	8.1	8.1
	7.8	7.8
5+00	7.7	7.7
	7.4	7.4
2.55	7.4	7.4
	6.3	6.3
	1.8	1.8
50		

12-05-60

STA. N. 132+00 S 0+00 = W 8,050: SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			58	14.1	8.3
5.8			50	14.7	8.9
	1.0	+4.8		14.5	8.7
10:45	3.1	+2.7		14.5	8.7
	5.0	+0.8		14.4	8.6
50	8.5	2.7		14.4	8.6
	11.2	5.4	3+00	14.4	8.6
	12.3	6.5		14.4	8.6
	13.0	7.2		14.5	8.7
	13.3	7.5		14.6	8.8
1+00	13.3	7.5		14.6	8.8
	13.6	7.8	50	14.6	8.8
	13.6	7.8		14.4	8.6
	13.6	7.8		13.9	8.1
	13.6	7.8		13.8	8.0
50	13.8	8.0		13.7	7.9
	13.6	7.8	4+00	13.5 —	7.7
				13.5 —	7.7
	13.7	7.9		13.5 —	7.7
	13.9	8.1		13.4 —	7.6
				13.4 —	7.6
	14.0	8.2	50	13.3 —	7.5
				13.1 —	7.3
2+00	13.9	8.1		11.8 —	6.0
				6.1 —	0.3
	13.8	8.0		4.4 —	+1.4
			5+00	2.7 —	+3.1
	13.9	8.1		1.5 —	+4.3
	13.8	8.0			

STA. N. 134+00 S 0+00 = W 8,060: SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			56	14.0	8.4
5.7	0.5	+5.2	50	14.4	8.8
	2.0	+3.7		14.5	8.9
10:55	4.0	+1.7		14.1	8.5
	6.7	1.0		14.0	8.4
50	10.0	4.3		14.0	8.4
	11.7	6.0	3+00	14.0	8.4
	12.4	6.7		14.0	8.4
	13.0	7.3		14.0	8.4
	13.1	7.4		14.0	8.4
1+00	13.3	7.6		14.0	8.4
	13.4	7.7	50	14.0	8.4
	13.5	7.8		14.0	8.4
	14.1	8.4	11:00	13.9	8.3
	13.6	7.9		13.7	8.1
50	14.0	8.3		13.6	8.0
	14.0	8.3	4+00	13.5	7.9
	13.9	8.2		13.2	7.6
	14.0	8.3		12.8	7.2
	14.0	8.3		10.9	5.3
2+00	14.0	8.3		5.3	+0.3
	14.1	8.4	50	3.5	+2.1
	14.1	8.4		2.1	+3.5
	13.9	8.2		1.1	+4.5

12-05-60

STA. N. 136+00 S 0+00 = W 8,140; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			54	14.0	8.6
55			50	13.9	8.5
	0.5	+5.0		13.7	8.3
11:05	2.6	+2.9		13.7	8.3
≈	4.7	+0.8		13.5	8.1
50	7.5	2.0		13.1	7.7
	11.1	5.6	3+00	12.8	7.4
	12.8	7.3		13.1	7.7
	13.3	7.8		12.8	7.4
	13.6	8.1		13.0	7.6
1+00	13.8	8.3		13.0	7.6
	13.9	8.4	50	13.0	7.6
	13.9	8.4		13.2	7.8
	13.9	8.4		13.4	8.0
	14.0	8.5	11:10	13.5	8.1
50	13.9	8.4	≈	13.4	8.0
	14.1	8.6	4+00	13.4	8.0
	13.9	8.4		13.5	8.1
	14.0	8.5		13.4	8.0
	14.0	8.5		13.2	7.8
2+00	13.9	8.4		13.2	7.8
	14.0	8.5	50	13.1	7.7
	13.8	8.3		13.0 — 7.6	
	13.9	8.4		9.7 — 4.3	
				5.2 — +0.2	
				2.9 — +2.5	

RESOUND ROSE CREEK FROM SLY
ELY SIDE
12/13/60 - See BASE LINE INFB MB 106

STA N178+00; 0+00 = W10,720 SOUND WEST

DIST	SOUND	ELEV
0+00		
10:10	1.8	+0 5
2 3	5.5	3 2
	7.5	5 2
	9.3	7 0
+50	10.2	7 9
	10.8	8 5
	10.8	8 5
	10.8	8 5
	11.0	8 7
1+00	10.5	8 2
	10.0	7 7
	10.0	7 7
	10.1	7 8
	10.1	7 8
+50	10.2	7 9
10:15	10 0	7 7

See Pg 35 for X-SECTIONS

2+00

OF GRAND AVE BRIDGE FOR 500'± TO SLY.
Pg 60 - ALLEN, HANI, GADDY, GLENN

(30)

STA N178+50; 0+00 = W10,750 - SOUND WEST

DIST	SOUND	ELEV
0+00		
10:20	2.0	+0 2
2 2	6.0	3 8
	9.1	6 9
	10.1	7 9
+50	11.0	8 8
	11.1	8 9
	11.1	8 9
	11.2	9 0
	11.0	8 8
2+00	10.9	8 7
	11.6	9 4
	11.8	9 6
	12.0	9 8
	11.5	9 3
+50	12.0	9 8

286.99
162
124.99

RESOUND ROSE CREEK SLY OF

STA N 179+00; 0+00 = W 10,770 - SOUND WEST

S.	DIST	SOUND	ELEV
DI	0+00	0 5	+1 7
0	10:25	3 8	1 6
1	2.2	6 8	4 6
2		8 4	6 2
		10 2	8 0
	50	11 2	9 0
+		11 4	9 2
		11.3	9 1
		11.4	9 2
		11.3	9 1
	1+00	10.9	8 7
1		10.8	8 6
		11.0	8 8
		11.4	9 2
		11.6	9 4
	50	11.4	9 2
+			
1			
	2+00		
2			

GRAND AVE BRIDGE - 12/13/60 (31)

STA N 179+50; 0+00 = W 10,780 - SOUND WEST

DIST	SOUND	ELEV
0+00		
10:30	1.0	+1 1
2.1	6.0	3 9
	7.4	5 3
	9 0	6 9
+50	11 4	9 3
	12 0	9 9
	12 0	9 9
	12 3	10 2
	12 4	10 3
1+00	12 3	10 2
	12 4	10 3
	12 2	10 1
	12 0	9 9
	11 7	9 6
+50	11 0	8 9

RESOUND SLY OF GRAND AVE
ELY SIDE
STA N180+00; 0+00 = W10,790 - SOUND WEST

DIST	SOUND	ELEV
0+00		
10:40	0°	+2°
(2°)	5°	3°
	5⁴	3⁴
	9⁸	7⁸
+50	10²	8²
	11°	9°
	11°	9°
	12°	10°
	11⁴	9⁴
1+00	11²	9²
	11°	9°
	11⁵	9⁵
	12¹	10¹
	12¹	10¹
50	11⁸	9⁸

BRIDGE - ROSE CREEK - 12-13-60 (32)
STA N180+50; 0+00 = 10,810 - SOUND WEST

DIST	SOUND	ELEV
0+00		
10:45	2°	0°
(2°)	6⁹	4⁹
	10¹	8¹
	11²	9²
+50	11⁸	9⁸
	12²	10²
	12²	10²
	12³	10³
	11⁸	9⁸
1+00	11³	9³
	11¹	9¹
	10⁹	8⁹
	10⁵	8⁵
	11°	9°
+50	11°	9°

RE SOUND ELY SIDE ROSE CREEK

STA N 181+00; 0+00 = W 10,820 SOUND WEST

DIST	SOUND	ELEV
0+00		
10;50	1.0	+0.8
(19)	5.3	3.4
	8.0	6.1
	9.9	8.0
+50	10.9	9.0
W10,880	11.3	9.4
	11.8	9.9
	11.9	10.0
	11.8	9.9
1+00	12.0	10.1
	11.6	9.7
	11.4	9.5
	11.3	9.4
	11.6	9.7
+50	11.3	9.4

SLY OF GRAND AVE BRIDGE

STA 181+50; 0+00 = W 10,830 SOUND WEST

DIST	SOUND	ELEV
0+00		
10;55	+0.4	+2.3
(19)	3.8	1.9
	6.5	4.6
	7.8	5.9
50	10.1	8.2
	11.1	9.2
	11.2	9.3
	11.4	9.5
	11.7	9.8
1+00	11.9	10.0
	12.1	10.2
	12.0	10.1
	12.0	10.1
	11.4	9.5
+50	11.2	9.3

RESOUND FLY SIDE OF ROSE

STAN 182+00; 0+00 = W10,850 SOUND WEST

DIST	SOUND	ELEV
0+00		
11:00	2^{0}	$+0^{2}$
(18)	5^{3}	3^{1}
	7^{0}	5^{2}
	10^{0}	8^{2}
+50	11^{2}	9^{4}
	11^{1}	9^{3}
	11^{1}	9^{3}
	11^{2}	9^{5}
	10^{0}	8^{2}
1+00	10^{4}	8^{6}
	11^{3}	9^{5}
	11^{8}	10^{0}
	12^{0}	10^{2}
	12^{3}	10^{5}
+50	12^{1}	10^{3}

CREEK SLY OF GRAND AVE BRIDGE (34)

STAN 182+50; 0+00 = W10860 SOUND WEST

DIST	SOUND	ELEV
0+00		
11:05	1^{4}	$+0^{4}$
(18)	5^{4}	3^{6}
	7^{8}	6^{0}
	10^{2}	8^{4}
+50	10^{7}	8^{9}
	11^{2}	9^{4}
	11^{8}	10^{0}
	12^{0}	10^{2}
	12^{1}	10^{3}
1+00	12^{3}	10^{5}
	12^{3}	10^{5}
	12^{8}	11^{0}
	12^{5}	10^{7}
	12^{7}	10^{9}
+50	12^{5}	10^{7}

RESOUND ELY SIDE ROSE CREEK 7/12/13/60
SLY OF GRAND AVE BRIDGE

STA N183+00; 0+00 = W 10,870 SOUND WEST

DIST	SOUND	ELEV
0+00		
11.10	+0.4	
(18)		3.0
		8.0
		10.4
50		11.4
		12.0
		12.3
		11.4
		9.2
1+00		7.4
		4.2
+50		

X-SECTION ELY SIDE OF ROSE CREEK (35)
SLY OF GRAND AVE BRIDGE
SEE FB 106 FOR B/L - Pg 30 FOR SOUNDINGS

MOST ELY FENCE IS LITTLE LEAGUE FENCE
MOST WLY FENCE IS CHANNEL FENCE
See FB 129-59-

BM = Chisel'd NWLY CORNER Sewer Pump STA 12.39 FB 129-61

N178+00; 0+00 = W 10656.10

STA		ELEV
0		11.2
W18.0 = Channel FENCE - NO LITTLE LEAGUE		
W20		11.2
W55		10.3
W55		6.0
W67	Hzo	2.2

N178+50; 0+00 = W 10669.44

0		12.7
W30		11.9
E1.4 = FENCE		
W32.2 = FENCE		
W61		11.4
W72		9.5
W72		5.5
W84	Hzo	2.3

X-SECTION ELYSIDE OF ROSE CREEK
SLY OF GRAND AVE BRIDGE
N179+00; 0+00 = W10682.77

STA		ELEV
0		13.0
W 30		12.7
W 31.9 = FENCE		
W 46.5 = FENCE		
W67		11.4
W75		9.3
W78		6.0
W 85	H_2O	2.3

N179+50; 0+00 = W10,696.10

0		13.2
W50		12.7
W 51.2 = FENCE		
W 61.0 = FENCE		
W 72		12.1
~~W 80~~		~~9.0~~
~~W 82~~		~~3.3~~
W 88	H_2O	2.3

N180+00; 0+00 = W10,709.43

0		13.4
W 50		12.7
W 59.8 = FENCE		
W 66.0 = FENCE		
W 77		12.1
W 78		6.5
W 89	H_2O	2.1

12-13-60

N180+50 - 0+00 = W10722.77

STA		ELEV	
0		13.87	TP ON HUB
W60		12.8	
W60.8 = FENCE			
W66.8 = FENCE			
W79		12.1	
W 80		6.6	
W 90	H_2O	1.9	

N181+00; 0+00 = W10736.10

0		13.5
W60		12.7
W 61.6 = FENCE		
W 67.8 = FENCE		
W78		12.4
W85		6.9
W91	H_2O	2.2

N181+50; 0+00 = W10,749.44

STA		ELEV
0		13.3
W60		12.8
W62.8 = FENCE		
W68.8 = FENCE		
W77		12.4
W78		4.5
W87	H_2O	2.0

N182+00; 0+00 = W10762.77

0		13.2
W60		12.6
W63.5 = FENCE		
W69.7 = FENCE		
W76 }	Sheer BANK	12.3
W76		7.2
W89		2.1

12-13-60

N182+50; 0+00 = W10 776.10

STA		ELEV
0		12.9
W60		12.5
W61.9 = FENCE		
W70.5 = FENCE		
W77 }	Sheer BANK	12.1
W77		6.9
W87	H_2O	2.3

N183+00; 0+00 = W10,789.44

0		13.0
W59.9 = FENCE		
W71.7 = FENCE		
W70		12.3
W77		11.4
W78		6.4
W89	H_2O	1.9

N183+50; 0+00: W 10 802,77

STA	ELEV
0	12 7
W40	12 0
W42 2 = FENCE	
W72 5 = FENCE	
W80	10 5
W89	5 6
W120	5 5
W125	5 3
W128	3 8
W170	3 8
W200	2 0
184+00; 0+00 = 10,816,10 –	
0	12 5 4 TP ON HUB
W11 7 = FENCE	
W15	12 5
W72 5 = FENCE	
W65	11 4
W70	10 5
W94	10 5
W117	5 5
W144	6 2
W180	5 8
W185	3 1
W200	4 5

TBM- Chisel 'V' in Top of curb at SELT CORNER GRAND AVE BRIDGE OVER ROSE CREEK - EL = 19.59

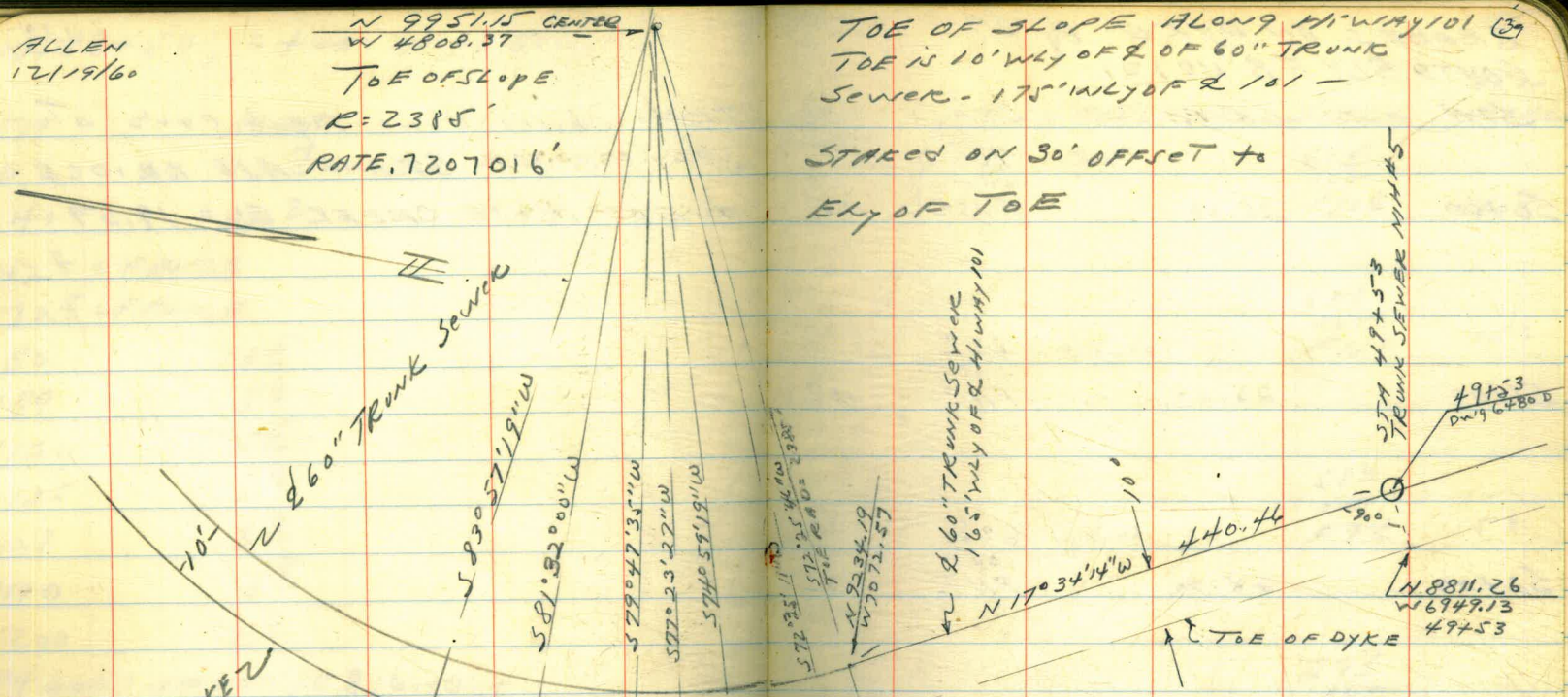
ALLEN
12/19/60

N 9951.15 CENTER
W 4808.37

TOE OF SLOPE
R = 2385'
RATE .7207016'

TOE OF SLOPE ALONG HIWAY 101 (39)
TOE IS 10' WLY OF ℄ OF 60" TRUNK
SEWER - 175' NLY OF ℄ 101 —

STAKED ON 30' OFFSET to
ELY OF TOE



58+73.19
Def = 5° 45.74'
57+72.42
Def = 4° 33.11'
57+00
Def = 3° 40.92'
56+00
DEF = 2° 28.85'
55+00
DEF = 1° 16.78'
54+00
DEF = 0° 04.71'
53+93.41 = BC

SEE DWG 6480-D - SEWER PLAN (60")

GRADES ON DYKE Pg 39
CONTD SLY FB Nº 131

STA	GRADE	STAKE	EL STAK
		70.5 OUT F13.5	
50+00	25.00		11.5
		63.9 OUT F11.3	
51+00	25.00		13.7
		63.6 OUT F11.2	
52+00	25.00		13.8
		63.6 OUT F11.2	
53+00	25.00		13.8
		65.4 OUT F11.8	
=BC 53+93.46			13.2
		65.1 OUT F11.7	
54+00	25.00		13.3
		63.3 OUT F11.1	
55+00	25.00		13.9

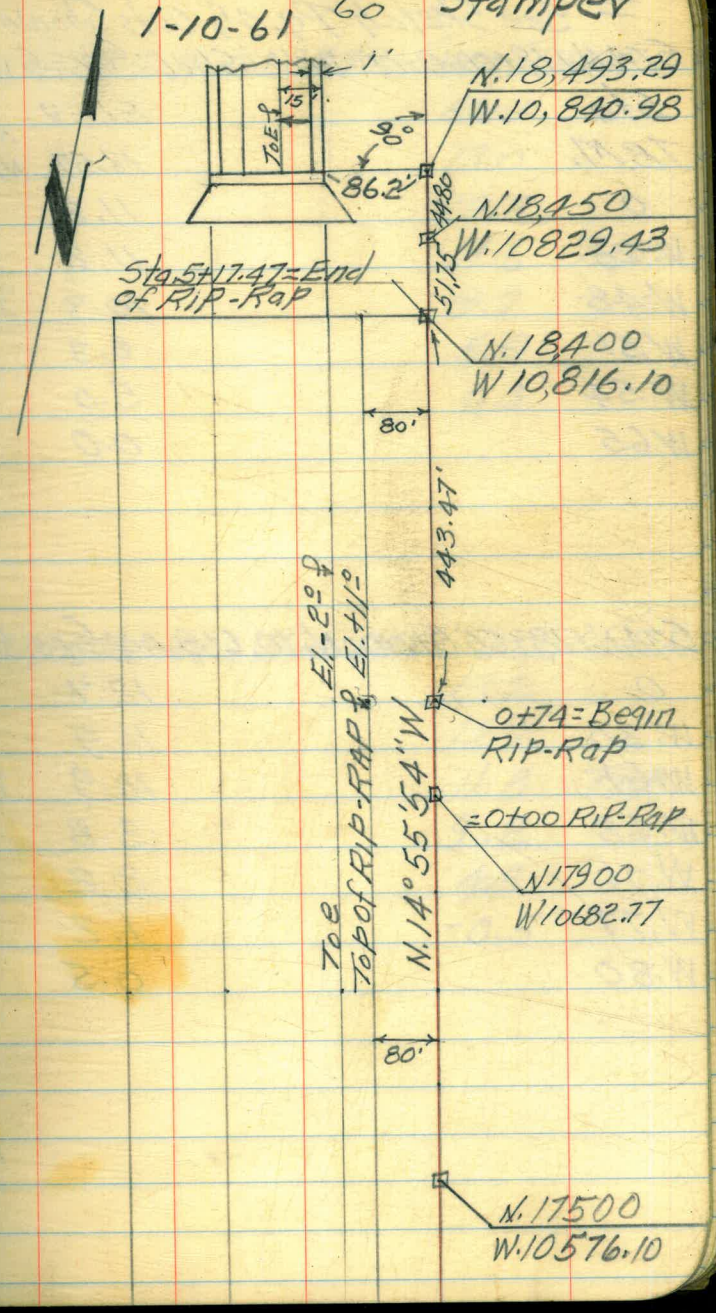
STA	GRADE	STAKE	EL OF STAKE
56+00	25	61.8 OUT F10.6	14.4
57+00	25.00	63.0 OUT F11.0	14.0
57+72.42	25.00	58.2 OUT F9.4	15.6
58+73.19	25.00	59.7 OUT F9.9	15.1

ADDITIONAL CROSS SECTIONS OF ELY.
ROSE CREEK SLY. OF GRAND AVE
NOTE: SEC'S. TAKEN @ 90° TO B/L.
W.O. 64730
RIP-RAP B/L ROSE CREEK
W.O. 64731
Ref. DWG. 8631-2-D

BM. 19.59 (See Pg 38) Set By Allen

Ref F.B. M.B. No 106/60 Stamper 41

1-10-61



NOTE: SEC'S ARE TAKEN @ 90° TO B/L.
See Sketch Pg. 41; Outs Shown as W. = -5' WLY

STA. N. 178+00: 0+00 = W. 10,656.10; SEC. 5' WLY.

Sta	ELEV	
T.B.M.	13.57	Hub. Pg. 36 N180+50
0	11.2	
W. 20	11.2	
W. 48	10.3	Top
W. 51	6.3	
W. 54	5.0	
W. 65	0.0	

STA. N. 179+00: 0+00 = W. 10,682.77; SEC. 5' WLY.

Sta.	Elev	
0	13.0	
W. 30	12.7	
W. 67	11.6	Top
W. 72	9.7	
W. 73	5.9	
W. 87	0.3	

STA. N. 178+50: 0+00 = N. 10,669.44; SEC. 5' WLY.

0	12.7	
W. 30	11.9	
W. 61	10.9	Top
W. 68	3.8	
W. 76	2.2	
W. 77	1.2	
W. 80	0.5	

STA. N. 179+50: 0+00 = W. 10,696.10; SEC. 5' WLY.

0	13.2	
W. 50	12.7	
W. 68	11.8	Top
W. 76	9.2	
W. 77	4.8	
W. 88	-0.5	

1-10-61

STA. N. 180+00: 0+00 = W 10,709.43; SEC. S. W L.Y.

Sta.	Elev	
0	13.4	
W. 50	12.7	
W. 71	12.1	Top
W 76	6.0	
W 89	0.2	

STA. N. 180+50: 0+00 = W 10,722.77

0	13.6	
W. 60	12.8	
W. 71	12.5	Top
W. 74	6.7	
W. 91	-0.1	

STA. N. 181+00: 0+00 = W 10,736.10

Sta	Elev	
0	13.5	
W. 60	12.7	
W. 71	12.5	Top
W. 77	6.8	
W. 90	-0.2	

STA. N. 181+50: 0+00 = W 10,749.44

0	13.3	
W. 60	12.8	
W. 75	12.2	Top
W. 77	6.8	
W. 89	0.0	

1-10-61

STA. N. 182+00; 0+00 = W. 10,762.77

Sta.	Elev.	
0	13.2	
W60	12.6	
W73	12.4	Top
W.75	7.1	
W91	-0.1	

STA. N. 182+50; 0+00 = W. 10,776.10

0	12.9	
W.60	12.3	
W.73	12.1	Top
W.76	6.6	
W.90	-0.1	

STA. N. 183+00; 0+00 = W. 10,789.44

Sta.	Elev.	
0	13.0	
W.70	12.3	
W.73	11.5	Top
W.78	5.1	
W89	-0.2	

STA. N. 183+50; 0+00 = W. 10,802.77

0	12.7	
W.40	12.0	
W.76	11.0	Top
W.83	4.4	
W.94	-0.1	

STA. N. 184+00; 0+00 = W. 10,816.10

Sta	Elev	
0.	12.5	
W. 15	12.5	
W 81	10.7	Top
W 106	7.5	
W. 108	6.3	
W 118	4.8	
W 133	4.7	
W 134	5.7	
W 164	6.1	

STA. N. 184+50; 0+00 = W. 10,829.43

0	12.50	on Hub
W. 72	11.0	
W. 73	12.8	
W 89	12.7	
W 112	6.9	
W 118	6.5	
W 123	4.9	
W 137	6.0	
W 150	6.5	

1-10-61

STA. N. 184+93.29; 0+00 = W. 10,840.93

Sta	Elev	
0	12.10	on Hub
W 69	10.8	
W 80	15.1	
W 86 2	15.14	E Top W. Wall
W 87 2	15.06	W. Top W. Wall
W 101	6.6	
W 115	6.0	
W 120	6.5	
W 135	6.4	

(Set Hub N5150 W9200)

6-06-61

PROGRESS X-SEC'S SOUTH SHORE
DISPOSAL AREA W.O. 64501

STA. W.92+00; 0+00 = N.5,150 = ⊼ Sta.

Sta	+	H.I.	-	Elev.	2"x2" Hub
T.B.M.	10.82	2628		15.46	N.5310.89 W.10,000
T.B.M.			3.10	23.18	Nail + Disk N5,250 W10,000
TBM.	5.32	25.68		20.36	
0			5.3	20.4	
S.20			4.9	20.8	Top Dike
S.23			8.5	17.2	
S.115			11.1	14.6	
S.185			12.0	13.7	
S290			12.5	13.2	
S390			12.5	13.2	
S500			13.4	12.3	
S600			10.5	15.2	
S700			10.6	15.1	
S790			10.8	14.9	
S870			8.5	17.2	
S970			9.7	16.0	
S1050			9.1	16.6	
S1110			9.0	16.7	
S1210			9.0	16.7	
S1240			8.3	17.4	
S1300			6.6	19.1	
S1310			3.4	22.3	

NOTE For End Area This Sec. Will Average Approx. 100' W'Lt of DIKE LOAD ON GRID STA.

6-07-61

STA. W. 96+00; 0+00 = N. 5,150

Sta	+	H.I	-	Elev
TBM.	12.02	24.52		12.50
0			4.7	19.8
N. 78			7.3	17.2
S 15			4.3	20.2
S 25			7.9	16.6
S 90			11.1	13.4
S 150			10.8	13.7
S 250			12.2	12.3
S 320			13.0	11.5
S 420			13.4	11.1
S 510			12.5	12.0
S 630			10.0	14.5
S 720			8.6	15.9
S 790			8.2	16.3
S 910			7.4	17.1
S 1030			7.3	17.2
S 1180			7.2	17.3
S 1300			7.5	17.0
S 1380			7.6	16.9
S 1390			3.8	20.7

6-07-61

STA. W. 100+00' 0+00 = N 5,240

Sta.	+	H.I	-	Elev	Nail + Disk N.5250 W10,000
TBM.	3.27	26.45		23.18	
0			5.1	21.4	
N. 47			5.1	21.4	
5. 230			7.3	18.7	
5.					
5 130			7.8	18.7	
5 230			7.8	18.7	
5					
5					
5 360			8.7	17.8	
5 430			9.5	17.0	
5 530			12.6	13.9	
5 630			12.7	13.8	
5 740			9.7	16.8	
5 820			12.8	13.7	
5 900			13.9	12.6	
5 1000			14.0	12.5	
5 1100			13.0	13.5	
5 1220			12.0	14.5	
5 1320			10.5	16.0	
5 1400			9.6	16.9	
5 1518			8.9	17.6	
5 1524			3.8	22.7	

6-07-61

STA. W. 105+00; 0+00 = N 5,370

Sta	+	H.I.	−	Elev.
TBM.	7.09	23.94		16.85
0			5.6	18.3
5110			5.0	18.9
5210			5.2	18.7
5290			4.8	19.1
5320			7.8	16.1
5520			10.0	13.9
5720			8.2	15.7
5730			3.4	20.5
5830			3.2	20.7
5930			3.4	20.5
51030			2.9	21.0
51150			2.0	21.9
51250			3.0	20.9
51340			4.3	19.6
51480			4.6	19.3
51600			4.2	19.7
51700			4.0	19.9

6-07-61

STA. W. 110+00; 0+00 = N. 5,520

Sta.	+	H.I.	-	Elev
T.B.M.	4.28	2519		20.91
0.			6.6	18.6
570			6.4	18.8
586			5.7	19.5
5.240			5.2	20.0
5.360			6.9	18.3
5700				
51060			6.7	18.5
51230			5.4	19.8
5.1400			3.0	22.2
51540			5.8	19.4
51800			7.0	18.2
51980			8.0	17.2
52000			5.0	20.2

6-07-61

STA. W. 115+00 30.00 = N. 5686

Sta	+	H.I	-	Elev	
	6.76	27.67		2091	
0.			9.2	18.5	Toe of Dike
5,120			10.8	16.9	
5,220			11.1	16.6	
5,320			12.6	15.1	
5,410			11.4	16.3	
5,498			11.2	16.5	
5,600			11.5	16.2	
5,680			11.9	15.8	
5,730			11.7	16.0	
5,830			9.2	18.5	
5,950			7.6	20.1	
51060			6.6	21.1	
51170			6.0	21.7	
51240			7.3	20.4	
51400			8.7	19.0	
51580			9.2	18.5	
51800			8.3	19.4	
52120			9.4	18.3	
TP.			6.55	21.12	
	4.59	25.71			

6-08-61

STA. W. 120+00 1 0+00 = N. 5,855

Sta	+	H.I.	-	Elev
		25.78		
0			7.5	18.3
5,110			8.5	17.3
5,200			8.7	17.1
5,310			9.3	16.5
5,410			10.2	15.6
5,520			11.9	13.9
5,630			11.2	14.6
5760			11.0	14.8
5830			11.6	14.2
5910			11.0	14.8
51000			10.4	15.4
51060			10.0	15.8
51180			10.5	15.3
	4.66	25.78		
T.P.			4.59	21.12
52350			9.7	16.0
52380			6.6	19.1
5.2400			3.5	22.2
		25.71		

6-08-61

STA. W. 125+00; 0+00 = N. 6000

Sta	+	H.I.	−	Elev	2X2
T.B.M.	4.62	26.64		22.02	N6000 W12500
0			7.6	19.0	
5190			8.4	18.2	
5330			8.5	18.1	
5420			8.8	17.8	
5580			8.8	17.8	
5720			9.3	17.3	
5780			9.8	16.8	
5900			12.0	14.6	
5980			12.0	14.6	
51100			12.3	14.3	
51180			11.4	15.2	
51280			10.8	15.8	
51400			10.9	15.7	
51500			11.6	15.0	
51580			12.0	14.6	
51660			11.5	15.1	
51780			11.9	14.7	
51880			11.6	15.0	
52000			11.4	15.2	
52220			10.1	16.5	
52300			10.2	16.4	
52440			10.0	16.6	
52620			7.6	19.0	

6-08-61

STA. W. 130+00 > 0+00 = N. 5400

Sta	+	H.I	-	Elev	
T.B.M.	3.00	25.02		22.02	
N. 651			9.1	15.9	
N. 550			8.0	17.0	
N 460			7.3	17.7	
N 360			5.7	19.3	
N 270			3.6	21.4	
N 180			5.7	19.3	
N 80			5.5	19.5	
0			5.2	19.8	
S 100			5.1	19.9	
S 200			5.7	19.3	
S 300			5.7	19.3	
S 400			5.4	19.6	
S 500			5.6	19.4	
S 590			6.2	18.8	
S 680			7.3	17.7	
S 790			7.8	17.2	
S 850			7.5	17.5	
S 900			6.0	19.0	
S 1050			5.2	19.8	Toe of W'ly Dike
T.P.			3.00	22.02	

"SHOTGUN ESTIMATE"

BY

RUB-A-DUBB-DUBB CREW

ONLY TWO MEN IN A TUB

IN A POND FULL OF SLUDGE

(OR SOMETHING!!)

6-12-61

STA. N. 76+00; 0+00 = W. 10,096.40

Sta	+	H.I.	-	Elev	"2X2" Hub EDD ECC.
T.B.M.	4.10	20.51		16.41	
0+00			5.1	15.4	
W 49			7.0	13.5	
W 116			7.8	12.7	
W 358			8.2	12.3	
W 738			8.1	12.4	
W 1025			8.5	12.0	
W 1056			8.3	12.2	
W 1063			7.4	13.1	
W 1100			4.6	15.9	
W 1140			4.1	16.4	

6-13-61

CROSS SECTIONS FILL AREA SELY.
CABRILLO ISLAND W.O. 64501
STA. N. 64+00; 0+00 = W. 8,700

Sta	+	H.I	-	Elev	B/L "2X2"
T.B.M.	4.81	26.43		21.62	Hub N. 64+00
0+00			4.8	21.6	
W 100			5.4	21.0	
W 203			5.7	20.7	
W 300			6.5	19.9	
W 410			7.3	19.1	
					VERY SOFT MATERIAL
W 880			7.8	18.6	
W 910			7.0	19.4	
W 920			3.8	22.6	TOP OF DIKE
W 940			9.6	16.8	
W 960			9.5	16.9	TOP OF SHLDR
W 980			11.2	15.2	
E 102			3.7	22.7	
E 208			5.1	21.3	
E 316			5.3	21.1	
E 428			6.0	20.4	
E 528			5.7	20.7	
E 630			6.2	20.2	
E 730			7.0	19.4	
E 822			6.9	19.5	
E 860			11.6	14.8	
E 880			12.1	14.3	TOP OF SHLDR
E 900			12.5	13.9	

6-13-61

STA N 66+00 0+00 = W 87+00

STA	+	H.I.	−	ELEV	
T.B.M	5.00	28.13		23.13	B/L 2X2 HUB
W1040			14.0	14.1	
W1004			14.9	13.2	TOP OF SH'LDR
W970			14.1	14.0	
W960			7.5	20.6	TOP OF DIKE
W940			9.3	18.8	
W700			8.3	19.8	
W590			8.0	20.1	
W460			7.7	20.4	
W340			7.3	20.8	
W310			6.9	21.2	
W205			5.7	22.4	
W100			5.1	23.0	
0+00			5.0	23.1	W87+00
E37			4.9	23.2	
E130			4.8	23.3	
E235			4.3	23.8	
E340			4.1	24.0	
E450			4.3	23.8	
E560			5.1	23.0	
E665			7.5	20.6	
E780			8.1	20.0	
E885			7.8	20.3	
E916			12.8	15.3	
E930			12.2	15.9	TOP OF SH'LDR
E960			14.1	14.0	

6-13-61

STA. N68+00, 0+00 = W87+00

STA	+	H.I	−	ELEV	
	5.04	30.88		25.84	B/L "2x2" HUB
W1060			16.7	14.2	
W1010			16.0	14.9	TOP OF SHOULDER
W 990			10.3	20.6	
W 900			11.7	19.2	
W 810			11.1	19.8	
W 710			10.7	20.2	
W 610			10.1	20.8	
W 520			9.4	21.5	
W 420			8.6	22.3	
W 323			7.3	23.6	
W 230			5.7	25.2	
W 135			6.9	24.0	
0+00			5.0	25.9	W87+00
E 100			6.0	24.9	
E 200			7.4	23.5	
E 290			6.5	24.4	
E 383			6.6	24.3	
E 480			7.5	23.4	
E 580			8.3	22.6	
E 690			9.5	21.4	
E 790			10.7	20.2	
E 900			14.2	16.7	
E940			15.0	15.9	TOP OF SHOULDER
E970			15.7	15.2	

6-13-61

STA N 70+00 0+00 = W 87+00

STA	+	H.I.	−	ELEV	
T.B.M.	4.93	29.21		24.28	B/L "2x2" HUB
E 870			15.6	13.6	
E 840			13.0	16.2	TOP OF SHOULDER
E 790			9.4	19.8	
E 690			8.2	21.0	
E 585			6.7	22.5	
E 480			6.1	23.1	
E 380			6.3	22.9	
E 280			5.1	24.1	
E 170			4.6	24.6	
E 76			4.4	24.8	
0+00			4.9	24.3	W 87+00
W 124			3.8	25.4	
W 225			4.2	25.0	
W 320			4.4	24.8	
W 410			6.0	23.2	
W 510			7.0	22.2	
W 615			7.7	21.5	
W 705			8.5	20.7	
W 803			9.4	19.8	
W 900			10.0	19.2	
W 980			10.3	18.9	
W 1020			8.0	21.2	
W 1070			13.5	15.7	TOP OF SHLDR
W 1080			13.6	15.6	

6-13-61

STA N72+00 0+00 = W87+00

STA	+	H.I.	−	ELEV	
	4.93	29.97		25.04	B/L "2x2" HUB
W1160			15.8	14.2	
W1120			14.9	15.1	TOP OF SHOULDER
W1100			12.0	18.0	
W1080			10.9	19.1	
W1000			10.9	19.1	
W 900			10.5	19.5	
W 800			10.1	19.9	
W 710			9.6	20.4	
W 608			8.1	21.9	
W 520			7.0	23.0	
W 420			5.7	24.3	
W 320			5.1	24.9	
W 217			6.6	23.4	
W 125			5.1	24.9	
0+00			4.9	25.1	W87+00
E 98			4.9	25.1	
E 206			5.5	24.5	
E 308			5.9	24.1	
E 420			7.4	22.6	
E 530			7.5	22.5	
E 630			8.3	21.7	
E 735			9.8	20.2	
E 820			13.8	16.2	TOP OF SHLDR
E 860			16.9	13.1 ✓	

6-13-61

STA N 74+00 0+00 W 87+00

STA	+	H.I.	-	ELEV	
T.B.M.	5.15	29.12		23.97	B/L 2X2 HUB
E 930			15.7	13.4	
E 910			13.3	15.8	TOP OF SHOULDER
E 870			12.0	17.1	
E 800			9.2	19.9	
E 680			9.1	20.0	
E 585			8.0	21.1	
E 480			7.1	22.0	
E 378			5.8	23.3	
E 268			5.4	23.7	
E 212			5.4	23.7	
E 60			5.6	23.5	
0+00			5.1	24.0	W87+00
W 100			4.7	24.4	
W 185			5.1	24.0	
W 310			6.1	23.0	
W 410			5.1	24.0	
W 510			4.8	24.3	
W 610			5.7	23.4	
W 705			7.7	21.4	
W 810			8.9	20.2	
W 920			9.3	19.8	
W 1020			10.1	19.0	
W 1120			10.3	18.8	

STA N 74+00 CONT.

STA	+	H.I.	-	ELEV	
		29.12			
W 1200			9.1	20.0	
W 1230			13.0	16.1	TOP OF SHOULDER
1280			13.2	15.9	✓

6-13-61

STA N 76+00 0+00 = W 87+00

STA	+	H.I.	−	ELEV	
T.B.M	5.32	27.95		22.63	B/L 2x2 HUB
W 1440			13.5	14.4	
W 1410			12.5	15.4	
W 1380			11.4	16.5	
W 1350			7.9	20.0	
W 1220			9.3	18.6	
W 11.00			9.0	18.9	
W 1030			8.2	19.7	
W 980			7.3	20.6	
W 870			6.4	21.5	
W 760			6.3	21.6	
W 680			6.6	21.3	
W 575			4.7	23.2	
W 475			4.7	23.2	
W 378			5.2	22.7	
W 300			4.5	23.4	
W 203			5.3	22.6	
W 142			6.1	21.8	
W 130			3.7	24.2	
W 56			4.8	23.1	
0+00			5.3	22.6	W 87+00
E 93			4.9	23.0	
E 200			4.9	23.0	
E 302			5.2	22.7	

STA N 76+00 CONT

STA	+	H.I.	−	ELEV	
		27.95			
E 403			6.0	21.9	
E 502			6.2	21.7	
E 595			6.8	21.1	
E 704			6.8	21.1	
E 850			11.8	16.1	
E 880			11.4	16.5	TOP OF SHOULDER
E 920			14.2	13.7	✓

6-13-61

STA. N 78+00 0+00 = W 8700

STA	+	H.I.	−	ELEV	
T.B.M	5.12	25.85		20.73	B/L 2x2 HUB
E 800			12.1	13.8	
E 755			9.4	16.5	TOP OF SHOULDER
E 660			8.6	17.3	
E 555			7.8	18.1	
E 448			7.7	18.2	
E 340			6.5	19.4	
E 238			6.1	19.8	
E 138			5.9	20.0	
E 41			5.5	20.4	
0+00			5.1	20.8	
W 58			4.0	21.9	
W 80			1.7	24.2	
W 192			1.1	24.8	
W 215			4.4	21.5	
W 310			3.9	22.0	
W 380			4.3	21.6	
W 670			4.4	21.5	
T.B.M	4.30	28.07	2.08	23.77	W 688 = W 93+88
W 788			2.5	25.6	
W 888			1.0	27.1	
W 910			5.2	22.9	
W 1036			7.2	20.9	

STA N. 78+00 CONT

STA	+	H.I.	−	ELEV	
		28.07			
W 1138			8.6	19.5	
W 1272			9.2	18.9	
W 1358			9.2	18.9	
W 1448			9.6	18.5	
W 1528			8.5	19.6	
W 1558			12.3	15.8	TOP OF SHOULDER
W 1608			13.7	14.4	

PROGRESS SOUNDINGS INSIDE DIKE
5'WLY AREA W.O. 64501

STA. W.110+00; 0+00=N.5,580; SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(64)	6.7	0.3
H_2O				7.2	0.8
Level	0.4	+6.0		7.0	0.6
Checked	2.4	+4.0		6.5	0.1
(6.4)	3.2	+3.2	50	6.5	0.1
50	4.9	+1.5		6.5	0.1
10:15	5.1	+1.3		6.5	0.1
	6.0	+0.4		6.0	+0.4
	7.0	0.6		6.0	+0.4
	8.5	2.1	2+00	6.0	+0.4
1+00	7.0	0.6		5.7	+0.7
	3.4	+3.0		5.2	+1.2
Shore	0.3	+6.1		4.0	+2.4
0+00=N.5750				1.9	+4.5
			50	4.1	+2.3
	0.5	+5.9		4.4	+2.0
	2.0	+4.4		3.9	+2.5
	3.0	+3.4		3.1	+3.3
50	4.4	+2.0		2.7	+3.7
	5.1	+1.3	3+00	2.3	+4.1
	5.7	+0.7		2.3	+4.1
	6.1	+0.3		2.3	+4.1
	6.5	0.1		2.5	+3.9
1+00	6.9	0.5		2.4	+4.0

THIS SEC = 0+00 END
AREA TO EAST OPP
STA 1+00
TO 2+50

STA. W110+00 - NORTH 6-29-61

Dist	Sound	Elev
50	2.2	+4.2
(64)	2.0	+4.4
	2.0	+4.4
	2.0	+4.4
	2.0	+4.4
4+00	2.0	+4.4
	2.0	+4.4
	1.9	+4.5
	1.8	+4.6
	1.8	+4.6
50	2.1	+4.3
	2.7	+3.7
	3.7	+2.7
	3.9	+2.5
	3.7	+2.7
5+00	3.4	+3.0
	3.0	+3.4
	2.0	+4.4
	2.0	+4.4
	2.0	+4.4
50	2.0	+4.4
	1.1	+5.3
Shore		

NOTE: EXISTING GROUND ABOVE H_2O LEVEL WILL AV. +7.5± ELEV.

6-30-61

STA. W. 112+00; 0+00 = N. 5,650 ; SOUND NORTH

DIST	Sound	Elev	DIST	Sound	Elev
0+00			64	10.0	3.6
OPP.	0.0	+6.4	50	10.0	3.6
SPILLWAY	1.5	+4.9		10.0	3.6
64	2.8	+3.6	11:30	9.0	2.6
	3.1	+3.3		9.2	2.8
50	4.3	+2.1		9.5	3.1
	5.9	+0.5	3+00	9.2	2.8
	5.9	+0.5		10.0	3.6
	4.0	+2.4		8.0	1.6
	5.2	+1.2		8.8	2.4
1+00	3.9	+2.5		9.0	2.6
	5.1	+1.3	50	9.0	2.6
	5.8	+0.6		9.0	2.6
	7.0	0.6		8.0	1.6
	7.8	1.4		6.3	+0.1
50	7.0	0.6	Island Shore	2.8	+ 3.6
	7.0	0.6	4+00	0.0	+6.4
	7.8	1.4			
	9.5	3.1	Shore		
	9.5	3.1		0.4	+6.0
2+00	10.0	3.6		1.0	+5.4
	10.0	3.6	50	2.6	+3.8
	9.4	3.0		2.2	+4.2
	10.0	3.6		2.4	+4.0

STA. W. 112+00 NORTH

DIST	Sound	Elev	DIST	Sound	Elev
64	2.7	+3.7	64	2.1	+4.3
	2.3	+4.1		2.1	+4.3
5+00	2.1	+4.3	50	2.1	+4.3
	2.0	+4.4		2.1	+4.3
	2.0	+4.4		2.1	+4.3
	1.8	+4.6		2.0	+4.4
	1.8	+4.6		2.7	+3.7
50	1.9	+4.5	8+00	3.0	+3.4
	1.7	+4.7		2.8	+3.6
	2.0	+4.4		2.8	+3.6
	1.9	+4.5		2.6	+3.8
	1.9	+4.5		2.4	+4.0
6+00	1.8	+4.6	50	1.8	+4.6
	2.0	+4.4		1.5	+4.9
	2.0	+4.4		Shore	
	1.7	+4.7			
	2.2	+4.2			
50	2.1	+4.3			
	2.1	+4.3			
	2.2	+4.2			
	2.3	+4.1			
	2.3	+4.1			
7+00	2.1	+4.3			
	2.0	+4.4			
	2.0	+4.4			

6-29-61

STA W.114+00 ; 0+00 = N.5,720 ; SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			6.4	8.5	2.1
	1.0	+5.4	50	8.5	2.1
6.4	2.0	+4.4		8.5	2.1
	2.5	+3.9		8.5	2.1
	3.8	+2.6		9.0	2.6
50	5.2	+1.2		8.0	1.6
	6.0	+0.4	3+00	8.0	1.6
	8.4	2.0		8.0	1.6
	10.0	3.6		8.0	1.6
	10.0	3.6		8.7	2.3
1+00	9.6	3.2		9.5	3.1
	10.0	3.6	50	9.0	2.6
	10.0	3.6		9.0	2.6
	10.0	3.6		10.2	3.8
	9.5	3.1	SHORE	6.5	0.1
50	10.0	3.6	3+90	1.5	+4.9
	9.5	3.1	4+50		
	9.5	3.1			
	8.5	2.1	Shore		
	9.2	2.8	↓		
2+00	9.0	2.6		0.2	+6.2
	8.0	1.6	5+00	0.2	+6.2
	8.5	2.1		0.5	+5.9
	8.5	2.1		1.0	+5.4

STA. W. 114+00 - NORTH

Dist	Sound	Elev	Dist	Sound	Elev
6.4	1.6	+4.8	6.4	2.0	+4.4
	2.0	+4.4		1.6	+4.8
50	2.0	+4.4	8+00	1.0	+5.4
	2.0	+4.4		1.4	+5.0
	1.8	+4.6		1.1	+5.3
	1.6	+4.8		1.3	+5.1
	2.0	+4.4		1.1	+5.3
6+00	1.8	+4.6	50	1.1	+5.3
	1.9	+4.5		0.9	+5.5
	1.9	+4.5		0.6	+5.8
	1.7	+4.7		0.5	+5.9
	1.7	+4.7		0.5	+5.9
50	1.7	+4.7	9+00	0.5	+5.9
	1.7	+4.7		0.3	+6.1
	1.6	+4.8		0.3	+6.1
	1.6	+4.8		1.4	+5.0
	1.7	+4.7		3.0	+3.4
7+00	1.7	+4.7	50	4.0	+2.4
	1.5	+4.9	Tie To	4.0	+2.4
	1.3	+5.1	Shore →		
	1.3	+5.1			
	1.1	+5.3			
50	1.0	+5.4			
	1.2	+5.2			
	2.0	+4.4			

Too Shallow for Boat - Waded & Est. Dist. from 8+50 to Shore

6-29-61

STA. W.116+00; 0+00 = N.5,780 ; SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00				6.0	+0.4
			50	5.6	+0.8
6.4	1.2	+5.2		5.4	+1.0
	1.8	+4.6		5.4	+1.0
	2.6	+3.8		5.2	+1.2
50	5.0	+1.4		5.2	+1.2
	5.2	+1.2	3+00	5.0	+1.4
	5.5	+0.9		5.0	+1.4
	6.1	+0.3		5.0	+1.4
	6.1	+0.3		4.8	+1.6
1+00	6.1	+0.3		4.5	+1.9
	5.6	+0.8	50	4.5	+1.9
	6.0	+0.4		3.8	+2.6
	6.6	0.2	Dike	0.5	+5.9
	7.0	0.6	NOTE	Ely. Line of	
50	7.5	1.1		Dike on S. Shore	
	7.1	0.7		= W.117+00 ±	
	7.0	0.6			
	6.8	0.4			
	6.4	0.0			
2+00	6.4	0.0			
	6.2	+0.2			
	7.0	0.6			
	6.5	0.1			

CROSS SECTIONS AND SOUNDINGS OF ELY ROSE CREEK AFTER INSTALLATION OF RIP RAP

NOTE: SECTIONS TAKEN @ 90° TO ℄

WO # 64731 4/18/62

BEGIN RIP RAP.

STA 0+74 0+00 = 80' W'LY ℄

DIST	SOUND	ELEV			
0+00			X-SECT OF RIP RAP		
	2.4	+0.8	STA	ELEV	
10:55	5.0	1.8	0+00	7.7	
3.2	6.6	3.4	E 5	10.8	TOP OF R.R.
	7.8	4.6	W 4	5.6	
0+50	7.7	4.5			

STA 1+00, 0+00 = 80' W'LY ℄

0+00					
	0.8	+2.3	X-SECT OF RIP RAP		
11:00	5.2	2.1	STA	ELEV	
3.1	6.3	3.2	0+00	8.8	
	7.5	4.4	E 3	10.6	TOP OF R.R.
0+50	7.6	4.5	W 6	5.7	

STA 1+50, 0+00 = 80' W'LY ℄

DIST	SOUND	ELEV			
0+00					
	0.8	+2.3	X-SECT OF RIP RAP		
11:00	5.0	1.9	STA	ELEV	
3.1	6.1	3.0	0+00	8.6	
	6.9	3.8	E 3	10.3	TOP OF R.R
0+50	7.3	4.2	W 6	5.5	

STA 2+00, 0+00 = 80' W'LY ℄

0+00					
	0.5	+2.6	X-SECT OF RIP RAP		
11:00	4.5	1.4	STA	ELEV	
3.1	6.6	3.5	0+00	9.8	
	6.8	3.7	E 2	10.5	TOP OF R.R
0+50	6.8	3.7	W 7	5.7	

STA 2+50, 0+00 = 80' W'LY ℄

0+00					
	0.0	+3.0	X-SECT OF RIP RAP		
11:05	4.0	1.0	STA	ELEV	
3.0	5.7	2.7	0+00	9.7	
	6.2	3.2	E 3	11.1	TOP OF R.R.
0+50	6.7	3.7	W 7	5.8	

STA 3+00, 0+00 = 80' W'LY ℄
DIST SOUND ELEV
0+00

X-SECT OF RIP RAP

			STA	ELEV	
11:05	3.9	0.9			
(3.0)	5.5	2.5	0+00	10.3	
	6.3	3.3	E 1	10.9	TOP OF R.R.
0+50	6.3	3.3	W 8	5.8	

STA 3+50, 0+00 = 80' W'LY ℄
0+00

X-SECT OF RIP RAP

			STA	ELEV	
	0.0	+3.0			
11:05	3.6	0.6			
(3.0)	5.6	2.6	0+00	9.6	
	5.5	2.5	E 1	10.8	TOP OF R.R.
0+50	5.5	2.5	W 7	5.8	

STA 4+00, 0+00 = 80' W'LY ℄
0+00

X-SECT OF RIP RAP

			STA	ELEV	
11:10	4.0	1.1			
	4.3	1.4	0+00	10.4	
(2.9)	5.6	2.7	E 2	10.7	TOP OF R.R.
0+50	5.4	2.5	W 6	5.9	

STA 4+50, 0+00 = 80' W'LY ℄
DIST SOUND ELEV
0+00

X-SECT OF RIP RAP

			STA	ELEV	
11:10	5.2	2.3			
(2.9)	5.0	2.1	0+00	10.2	
	5.4	2.5	E 1	10.8	TOP OF R.R.
0+50	5.4	2.5	W 8	5.8	

N. END OF RIP RAP.
STA 5+17.42, 0+00 = 80' W'LY ℄
0+00

X-SECT OF RIP RAP

			STA	ELEV	
11:10	4.3	1.4			
	5.3	2.4	0+00	11.0	TOP OF R.R.
(2.9)	1.2	+1.7	W 9	5.9	
0+50	+				

6-25-62 , W.O.64730

PROGRESS SOUNDINGS SWLY. TIERRA DEL FUEGO (Sec's Radial or @ 90° To Tan)

STA. 20+00; 0+00 = 10' OUTBOARD

Dist	Sound Elev	Dist	Sound Elev
0+00			7.2
			5.2
1.1	2.2		7.0
	5.0		8.9
	6.6	50	10.0
50	7.7		10.7
	8.9		10.9
11:05	9.1		11.0
	9.0		10.9
	7.6	2+00	10.4
1+00	8.0		

STA. 20+50; 0+00 = 10' OUTBOARD

Dist	Sound Elev	Dist	Sound Elev
0+00		1+00	8.7
1.1			8.4
			7.5
	3.4		9.0
	5.0		9.7
50	6.8	50	10.0
	8.8		10.0
11:10	9.6		8.8
	9.7		10.3
	8.9		10.7
		2+00	11.0

STA. 21+00; 0+00 = 10' OUTBOARD

Dist	Sound Elev	Dist	Sound Elev
0+00			9.1
			7.2
1.1			8.0
	2.0		10.0
	5.1	50	11.0
50	7.2		11.0
	8.3		9.6
11:15	8.9		9.4
	9.0		10.2
	9.0	2+00	10.7
1+00	8.4		

STA. 21+50 0+00 = 10' OUTBOARD

Dist	Sound Elev	Dist	Sound Elev
0+00			8.7
			8.0
1.2			10.0
	2.8	50	10.6
	5.0		10.2
50	6.6		7.7
	7.8		8.0
11:20	8.2		9.0
	8.8	2+00	9.5
	8.7		
1+00	8.6		
	8.9		

6-25-62

STA. 22+00: 0+00 = 10' OUTBOARD

DIST	Sound	Elev	DIST	Sound	Elev
0+00				8.8	
1.2				9.0	
				10.0	
	3.0			10.6	
	6.4		50	9.7	
50	6.6			9.6	
	7.5			9.4	
11:25	8.1			9.4	
	8.6			9.6	
	8.0		2+00	10.1	
1+00	8.1				

STA. 22+50: 0+00 = 10' OUTBOARD

0+00				11.0	
				10.6	
1.3	1.2			10.7	
	4.0		50	11.0	
	5.2			11.3	
50	7.1			11.4	
	8.2			11.7	
11:30	8.9			11.1	
	9.0		2+00	10.9	
	9.1				
1+00	10.0				
	11.0				

IMPROVED TABLES AND INFORMATION

HORIZONTAL STADIA CORRECTIONS

2°—00′	—	0.1	21°—00′	—	12.8	33°—00′	—	29.7
3°—00′	—	0.3	21°—30′	—	13.4	33°—15′	—	30.1
4°—00′	—	0.5	22°—00′	—	14.0	33°—30′	—	30.5
5°—00′	—	0.8	22°—30′	—	14.7	33°—45′	—	30.9
6°—00′	—	1.1	23°—00′	—	15.3	34°—00′	—	31.3
7°—00′	—	1.5	23°—30′	—	15.9	34°—15′	—	31.7
8°—00′	—	1.9	24°—00′	—	16.5	34°—30′	—	32.1
9°—00′	—	2.5	24°—30′	—	17.2	34°—45′	—	32.5
10°—00′	—	3.0	25°—00′	—	17.9	35°—00′	—	32.9
10°—30′	—	3.3	25°—30′	—	18.6	35°—15′	—	33.3
11°—00′	—	3.6	26°—00′	—	19.2	35°—30′	—	33.7
11°—30′	—	4.0	26°—30′	—	19.9	35°—45′	—	34.1
12°—00′	—	4.3	27°—00′	—	20.6	36°—00′	—	34.6
12°—30′	—	4.7	27°—30′	—	21.3	36°—15′	—	35.0
13°—00′	—	5.1	28°—00′	—	22.0	36°—30′	—	35.4
13°—30′	—	5.5	28°—30′	—	22.8	36°—45′	—	35.8
14°—00′	—	5.9	29°—00′	—	23.5	37°—00′	—	36.2
14°—30′	—	6.3	29°—30′	—	24.3	37°—15′	—	36.6
15°—00′	—	6.7	30°—00′	—	25.0	37°—30′	—	37.1
15°—30′	—	7.2	30°—15′	—	25.4	37°—45′	—	37.5
16°—00′	—	7.6	30°—30′	—	25.8	38°—00′	—	37.9
16°—30′	—	8.1	30°—45′	—	26.2	38°—15′	—	38.3
17°—00′	—	8.5	31°—00′	—	26.5	38°—30′	—	38.7
17°—30′	—	9.0	31°—15′	—	26.9	38°—45′	—	39.1
18°—00′	—	9.5	31°—30′	—	27.3	39°—00′	—	39.6
18°—30′	—	10.1	31°—45′	—	27.7	39°—15′	—	40.0
19°—00′	—	10.6	32°—00′	—	28.1	39°—30′	—	40.5
19°—30′	—	11.2	32°—15′	—	28.5			
20°—00′	—	11.7	32°—30′	—	28.9			
20°—30′	—	12.3	32°—45′	—	29.3			

Chains to Feet	
1	66
2	132
3	198
4	264
5	330
6	396
7	462
8	528
9	594
10	660

Feet to Chains	
100	1.515
200	3.030
300	4.545
400	6.060
500	7.575
600	9.090
700	10.606
800	12.121
900	13.636
1,000	15.151