

1B 153



179-59-60

91-18-51

88-41-09

MICROFILMED

179-59-60

-51-4

87-08-49

104 = 87-08-50

105 = 88-41-10



FB. No 153

THIS BOOK INDEXED 2-14-62

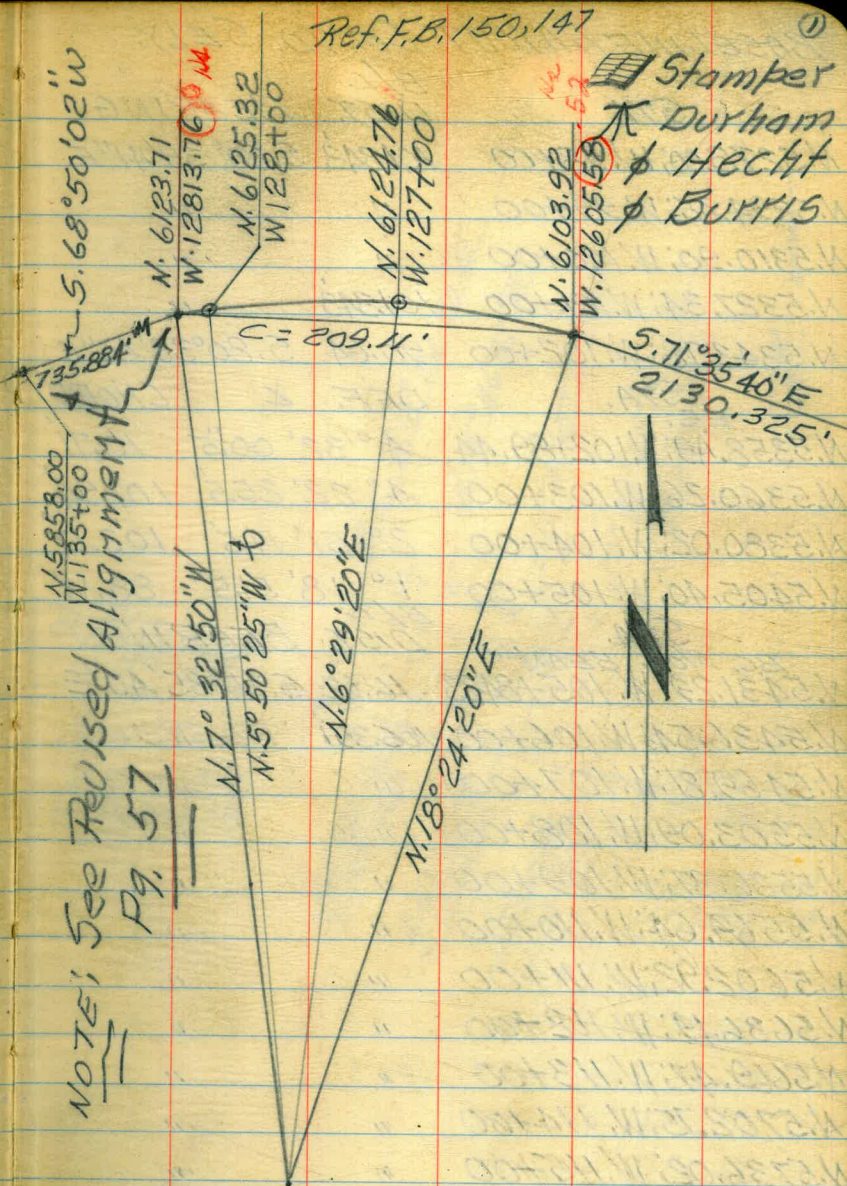
Cliff Call 232-1402

BASELINE LAYOUT FOR RIP-RAP
SOUTH SHORE, PEREZ COVE ELY.

STA.	B/L DIST.	BEARING
N.5835.85; W.118+00	105.391	5.71°35'40"E
N.5869.13; W.119+00	"	"
N.5902.40; W.120+00	"	"
N.5935.68; W.121+00	"	"
N.5968.95; W.122+00	"	"
N.6002.23; W.123+00	"	"
N.6035.51; W.124+00	"	"
N.6068.78; W.125+00	105.391	"
N.6102.06; W.126+00	5.88	5.71°35'40"E
EC. STA.	DEF. Δ	CHORD
N.6103.92; W.126+05.58	12°58'35"	96.67'
N.6124.76; W.127+00	7°01'05"	100.00'
N.6125.32; W.128+00	0°51'13"	13.81'
STA.	B/L DIST.	BEARING

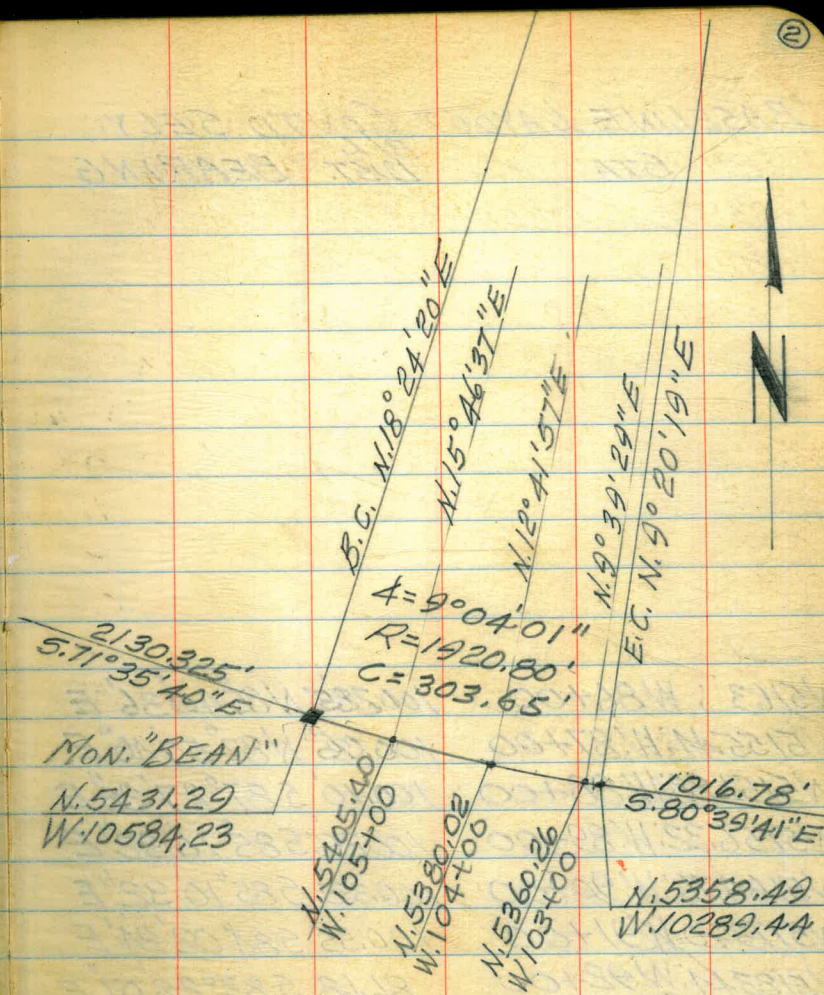
B.C. $R\Delta = 25^{\circ}51'10''$ $R = 465.63'$

N.6123.71; W.128+13.76	92.48	N.68°50'02"E
N.6090.32; W.129+00	107.234	"
N.6051.60; W.130+00	"	"
N.6012.88; W.131+00	"	"
N.5974.16; W.132+00	"	"
N.5935.44; W.133+00	"	"
N.5896.72; W.134+00	107.234	N.68°50'02"E
N.5858; W.135+00		



BASELINE LAYOUT CONTD. SELY.

STA	B/L DIST.	BEARING
N.5278.00; W.98+00	101.343	5.80° 39' 41" E
N.5294.45; W.99+00	"	"
N.5310.90; W.100+00	"	"
N.5327.34; W.101+00	101.343	"
N.5343.78; W.102+00	90.64	5.80° 39' 41" E
STA.	DEF. X	CHORD
N.5358.49; W.102+89.44	4° 32' 00.5"	10.71'
N.5360.26; W.103+00	4° 22' 25.5"	101.94'
N.5380.02; W.104+00	2° 51' 11.5"	103.17'
N.5405.40; W.105+00	1° 18' 51.5"	88.11'
STA.	B/L DIST.	BEARING
N.5431.29; W.105+84.23	16.62	5.71° 35' 40" E
N.5436.54; W.106+00	105.391	"
N.5469.81; W.107+00	"	"
N.5503.09; W.108+00	"	"
N.5536.37; W.109+00	"	"
N.5569.64; W.110+00	"	"
N.5602.92; W.111+00	"	"
N.5636.19; W.112+00	"	"
N.5669.47; W.113+00	"	"
N.5702.75; W.114+00	"	"
N.5736.02; W.115+00	"	"
N.5769.30; W.116+00	"	"
N.5802.57; W.117+00	"	"
N.5835.85; W.118+00	105.391	5.71° 35' 40" E



BASELINE LAYOUT CONTD. SELV.

STA

^{B/L}
DIST. BEARING

N5163 ; W86+00	100.285	N85°40'36" E
N5155.44; W.87+00	100.06	N87°57'40" E
N5151.88; W.88+00	100.10	587°27'28" E
N5156.32; W.89+00	100.355	585°10'32" E
N5164.76; W.90+00	100.355	585°10'32" E
N5173.20; W91+00	100.55	584°02'24" E
N5183.64; W92+00	86.68	583°28'07" E
^{170 N. "J.M."} N.5193.50; W.92+86.12	14.07	5.80°39'41" E
N.5195.78; W.93+00	101.343	"
N.5212.22; W.94+00	"	"
N.5228.67; W.95+00	"	"
N.5245.12; W.96+00	"	"
N.5261.56; W.97+00	"	"
N.5278.00; W.98+00	101.343	5.80°39'41" E

SOUNDINGS SOUTH SHORE MISSION BAY ELY.
FROM PEREZ COVE FOR RIP-RAP

NOTE: SEC'S TAKEN @ 90° TO SHORELINE OR
RADIALLY ON CURVES; B/L = TOPOF-SHOULDER.
STA. W. 135+00; OHD = 10' NLY. OF B/L (SEE SKETCH)

DIST SOUND ELEV DIST SOUND ELEV

0+00			2+00	12.5	10.0
(2.5)				12.6	10.1
				12.4	9.9
				12.4	9.9
	0.8	+1.7		12.4	9.9
50	1.8	+0.7	50	12.3	9.8
	6.1	3.6		12.2	9.7
21.55	10.3	7.8		12.3	9.8
~	11.0	8.5		12.4	9.9
	11.7	9.2		12.1	9.6
1+00	12.1	9.6	3+00	12.2	9.7
	12.1	9.6			
	12.0	9.5			
	12.3	9.8			
	12.5	10.0			
50	12.6	10.1			
	12.8	10.3			
	12.7	10.5			
	12.5	10.0			
	12.5	10.0			

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STA. W. 134+00; OHD = 20' NLY. OF B/L

DIST SOUND ELEV DIST SOUND ELEV

0+00			(2.5)	11.9	9.4
			50	12.0	9.5
				12.1	9.6
				12.2	9.7
	0.6	+1.9		12.1	9.6
	50	2.1	+0.4	12.2	9.7
	6.6	4.1	3+00	12.0	9.5
	21.50	8.3	5.8		
	~	11.8	9.3		
		11.4	8.9		
	1+00	11.9	9.4		
		12.0	9.5		
		12.0	9.5		
		12.1	9.6		
		12.2	9.7		
	50	12.5	10.0		
		12.5	10.0		
		12.3	9.8		
		12.2	9.7		
		12.0	9.5		
	2+00	11.7	9.2		
		11.9	9.4		
		11.9	9.4		
		11.8	9.3		

STA. W. 133+00; 0+00 = 40' NLY. OF B/L

DIST	Sound	Elev	DIST	Sound	Elev
0+00			(25)	11.5	9.0
(2.5)			50	11.6	9.1
				11.6	9.1
	1.2	+1.3		11.6	9.0
	3.6	1.1		11.5	9.0
50	7.8	5.3		11.2	8.7
	10.0	7.5	3+00	11.3	8.8
	11.0	8.5			
2:45	11.1	8.6			
	11.2	8.7			
1+00	11.3	8.8			
	11.5	9.0			
	11.5	9.0			
	11.7	9.2			
	11.7	9.2			
50	11.7	9.2			
	11.6	9.1			
	11.5	9.0			
	11.5	9.0			
	11.6	9.1			
2+00	11.8	9.3			
	11.9	9.4			
	11.7	9.2			
	11.6	9.1			

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(5)

STA. W. 132+00; 0+00 = 60' NLY. OF B/L

DIST	Sound	Elev	DIST	Sound	Elev
0+00			(25)	10.6	8.1
(2.5)			50	10.5	8.0
				10.2	7.7
	1.5	+1.0		10.3	7.6
	5.1	2.6		10.2	7.5
50	8.4	5.9		10.2	7.5
	10.2	7.7	3+00	10.2	7.5
	11.0	8.5			
2:40	11.1	8.6			
	11.2	8.7			
1+00	11.1	8.6			
	11.2	8.7			
	11.2	8.7			
	11.2	8.7			
	11.5	9.0			
50	11.3	8.8			
	11.4	8.9			
	11.2	8.7			
	11.4	8.9			
	11.4	8.9			
2+00	11.2	8.7			
	11.0	8.5			
	10.6	8.1			
	10.7	8.2			

STA. W. 131400; 0+00 = 60' NLY. OF B/L

DIST	Sound	Elev	DIST	Sound	Elev
0+00			(25)	12.3	9.8
(2.5)			50	12.4	9.9
				12.5	10.0
	1.3	+1.2		12.5	10.0
	4.5	2.0		12.5	10.0
50	9.2	6.7	3+00	12.5	10.0
	11.0	8.5	3+00	12.5	10.0
2:35	11.7	9.2			
	11.8	9.3			
	11.8	9.3			
1+00	11.7	9.2			
	11.8	9.3			
	12.0	9.5			
	12.0	9.5			
	12.2	9.7			
50	12.3	9.8			
	12.3	9.8			
	12.5	10.0			
	12.5	10.0			
	12.5	10.0			
2+00	12.5	10.0			
	12.4	9.9			
	12.4	9.9			
	12.3	9.8			

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(6)

STA. W. 130+00; 0+00 = 60' NLY. OF B/L

DIST	Sound	Elev	DIST	Sound	Elev
0+00			(26)	12.0	9.4
(2.6)			50	12.1	9.5
				12.0	9.4
	1.5	+1.1		12.3	9.7
	5.8	3.2		12.2	9.6
50	11.0	8.4		12.1	9.5
	11.6	9.0	3+00	12.0	9.4
2:25	11.9	9.3			
	12.0	9.4			
	12.1	9.5			
1+00	11.9	9.3			
	12.0	9.4			
	12.0	9.4			
	12.4	9.8			
	12.2	9.6			
50	12.1	9.5			
	12.0	9.4			
	12.0	9.4			
	12.1	9.5			
	12.0	9.4			
2+00	12.0	9.4			
	11.6	9.0			
	12.1	9.5			
	12.0	9.4			

STA. W. 129400/10400 = 30' NLY. OF B/L

	Dist	Sound	Elev	Dist	Sound	Elev
0400				(27)	14.0	11.3
(2.7)				50	13.7	11.0
					14.1	11.4
					14.3	11.6
					12.7	10.0
50	0.5	+2.2			13.4	10.7
	2.8	0.1	3+00		13.0	10.3
<u>2:20</u>	6.6	3.9				
	8.4	5.7				
	9.6	6.9				
1+00	10.1	7.4				
	11.1	8.4				
	12.1	9.4				
	12.1	9.4				
	12.5	9.8				
50	12.7	10.0				
	13.0	10.3				
	13.1	10.4				
	13.5	10.8				
	13.6	10.9				
2+00	13.9	11.2				
	13.9	11.2				
	14.0	11.3				
	14.0	11.3				

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STA. W. 128400/0400 = 30' NLY. OF B/L

	Dist	Sound	Elev	Dist	Sound	Elev
0400				(27)	12.1	9.4
(2.7)				50	12.2	9.5
					12.4	9.7
					12.6	9.9
				1.4	+1.3	
				4.8	2.1	
50	10.0	7.3			13.5	10.8
	12.0	9.3	3+00		14.0	11.3
<u>2:15</u>	13.0	10.3			15.2	12.5
	13.6	10.9				
	14.0	11.3				
1+00	13.3	10.6				
	13.6	10.9				
	14.0	11.3				
	14.2	11.5				
	15.0	12.3				
50	14.9	12.2				
	15.2	12.5				
	14.6	11.9				
	14.7	12.0				
	14.0	11.3				
2+00	13.6	10.9				
	13.6	10.9				
	12.7	10.0				
	12.2	9.5				

STA. W. 127400 O+00 = 30' NLY. OF B/L

Dist Sound Elev Dist Sound Elev

	Dist	Sound	Elev	Dist	Sound	Elev
O+00	(2.7)			(2.7)	12.0	9.3
	50			50	12.0	9.3
		0.0	+2.7		12.0	9.3
		1.1	+1.6		12.0	9.3
		3.2	0.5		12.0	9.3
50		9.1	6.4		11.9	9.2
		10.4	7.7	3+00	11.8	9.1
2:10		11.6	8.9			
≈		11.4	8.7			
		11.5	8.8			
1+00		11.6	8.9			
		11.7	9.0			
		11.6	8.9			
		11.9	9.2			
		11.7	9.0			
50		11.6	8.9			
		11.6	8.9			
		11.7	9.0			
		11.5	8.8			
		11.5	8.8			
2+00		11.6	8.9			
		11.0	8.3			
		11.8	9.1			
		12.0	9.3			

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(8)

STA. W. 126400 O+00 = 30' NLY. OF B/L

Dist Sound Elev Dist Sound Elev Dist Sound Elev

	Dist	Sound	Elev	Dist	Sound	Elev
O+00	(2.8)			(2.7)	10.8	8.1
	50			50	11.0	8.3
		0.1	+2.7		10.9	8.2
		2.1	+0.7		11.0	8.3
		5.0	2.2		11.1	8.4
50		9.6	6.8		11.4	8.7
		11.0	8.2	3+00	11.7	9.0
2:05		11.0	8.2			
≈		11.0	8.2			
		11.3	8.5			
1+00		11.1	8.3			
		11.1	8.3			
		11.1	8.3			
		11.0	8.2			
		10.7	7.9			
50		10.9	8.1			
		10.8	8.0			
		10.5	7.7			
		10.5	7.7			
		10.4	7.6			
2+00		10.3	7.5			
		10.2	7.4			
		10.3	7.5			
		10.5	7.7			

STA. W. 125400' 0400 = 20' NLY. OF B/L

Dist Sound Elev Dist Sound Elev

0400			(27)	11.5	8.8
(2.8)			50	11.3	8.6
				11.0	8.3
				11.0	8.3
	0.7	+2.1		11.1	8.4
50	2.6	+0.2		11.4	8.7
	6.8	4.0	3100	11.5	8.8
2:00	9.4	6.6			
	10.7	7.9			
	11.0	8.2			
1+00	11.2	8.4			
	11.5	8.7			
	11.8	9.0			
	11.8	9.0			
	11.7	8.9			
50	11.7	8.9			
	11.6	8.8			
	11.6	8.8			
	11.8	9.0			
	11.8	9.0			
2+00	11.9	9.1			
	11.8	9.0			
	11.7	8.9			
	11.6	8.8			

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(3)

STA. W. 124400' 0400 = 20' NLY. OF B/L

Dist Sound Elev Dist Sound Elev

0400			(29)	11.5	8.6
(2.9)			50	11.6	8.7
				12.0	9.1
				12.0	9.1
				11.7	8.8
50	2.0	+0.9		11.8	8.9
	7.4	4.5	3100	11.9	9.0
11:55	10.1	7.2			
	10.7	7.8			
	11.0	8.1			
1+00	11.7	8.8			
	12.0	9.1			
	12.0	9.1			
	12.0	9.1			
50	11.9	9.0			
	11.7	8.8			
	11.7	8.8			
	11.7	8.8			
	11.8	8.9			
2+00	11.6	8.7			
	11.7	8.8			
	11.6	8.7			
	11.6	8.7			

STA. W. 123+00, CHOO = 30' NLY OF B/C

Dist Sound Elev Dist Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(25)	14.5	11.6
(2.9)			50	14.3	11.4
				14.4	11.5
	0.7	+2.2		14.4	11.5
	1.6	+1.3		14.2	11.3
50	6.3	3.4		14.2	11.3
	10.2	7.3	3+00	14.5	11.6
11.50	11.4	8.5			
	12.3	9.4			
	13.1	10.2			
1+00	13.8	10.9			
	14.2	11.3			
	14.4	11.5			
	14.4	11.5			
	14.3	11.4			
50	14.6	11.7			
	14.7	11.8			
	14.6	11.7			
	14.5	11.6			
	14.5	11.6			
2+00	14.5	11.6			
	14.6	11.7			
	14.6	11.7			
	14.5	11.6			

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(10)

STA. W. 122+00, CHOO = 30' NLY OF B/C

Dist Sound Elev Dist Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(30)	12.2	9.2
(3.0)			50	12.4	9.4
				12.3	9.3
	0.8	+2.2		12.0	9.0
	3.3	0.3		12.1	9.1
50	8.6	5.6		12.6	9.6
	11.1	8.1	3+00	13.1	10.1
11.45	11.9	8.9			
	12.6	9.6			
	12.1	9.1			
1+00	12.3	9.3			
	12.4	9.4			
	12.1	9.1			
	12.0	9.0			
	11.6	8.6			
50	11.9	8.9			
	11.6	8.6			
	11.8	8.8			
	11.9	8.9			
	12.0	9.0			
2+00	12.1	9.1			
	12.4	9.4			
	12.3	9.3			
	12.1	9.1			

STA. W. 121400, 0400 = 20' NLY. OF B/L

Dist Sound Elev Dist Sound Elev

0400			(3.0)	12.7	9.7
(3.0)			50	12.6	9.6
				12.6	9.6
				12.6	9.6
	0.4	+2.6		12.5	9.5
50	3.0	0.4		12.5	9.5
	9.9	6.9	3+00	12.6	9.6
11:40	12.6	9.6			
~	13.1	10.1			
	12.3	9.3			
1+00	12.3	9.3			
	12.0	9.0			
	11.9	8.9			
	11.8	8.8			
	11.7	8.7			
50	11.7	8.7			
	11.7	8.7			
	11.8	8.8			
	11.9	8.9			
	12.0	9.0			
2+00	12.0	9.0			
	12.2	9.2			
	12.4	9.4			
	12.5	9.5			

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STA. W. 120400, 0400 = 30' NLY. OF B/L

Dist Sound Elev Dist Sound Elev

0400			(3.1)	12.8	9.7
(3.1)			50	12.7	9.6
				12.7	9.6
	0.5	+2.6		12.7	9.6
	1.6	+1.5		12.7	9.6
	5.4	2.3		12.7	9.6
50	9.3	6.2		13.0	9.9
	12.6	9.5	3+00	13.1	10.0
11:35	13.3	10.2			
~	13.8	10.7			
	13.3	10.2			
1+00	13.2	10.1			
	13.7	10.6			
	13.5	10.4			
	13.3	10.2			
	13.1	10.0			
50	12.8	9.7			
	12.9	9.8			
	12.8	9.7			
	12.7	9.6			
	12.7	9.6			
2+00	12.8	9.7			
	12.9	9.8			
	12.8	9.7			
	12.8	9.7			

STA. W. 118400, 0400 = 30' NLY OF B/L

Dist Sound Elev Dist Sound Elev

0+00

(3.1)

0.8 +2.3

3.0 10.1

50 9.9 6.8

13.4 10.3

1:30 13.1 10.0

13.1 10.0

13.1 10.0

1+00 13.1 10.0

13.2 10.1

13.4 10.3

13.3 10.2

13.2 10.1

50 13.0 9.9

12.8 9.7

12.7 9.6

12.6 9.5

12.5 9.4

2+00 12.5 9.4

12.4 9.3

12.5 9.4

12.5 9.4

Dist Sound Elev

(3.1)

12.5 9.4

50 12.7 9.6

12.7 9.6

12.8 9.7

12.9 9.8

14.3 11.2

3+00 14.6 11.5

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STA. W. 118400, 0400 = 30' NLY OF B/L

Dist Sound Elev Dist Sound Elev

0+00

(3.2)

1.1 +2.1

5.1 1.9

50 9.8 6.6

11.3 8.1

1:25 11.2 8.0

11.1 7.9

11.4 8.2

1+00 11.6 8.4

11.8 8.6

12.0 8.8

12.0 8.8

12.0 8.8

50 12.2 9.0

12.3 9.1

12.3 9.1

12.3 9.1

12.5 9.3

2+00 12.5 9.3

12.4 9.2

12.5 9.3

12.7 9.5

Dist Sound Elev

(3.2)

13.3 10.1

50 13.5 10.3

13.4 10.2

13.4 10.2

13.6 10.4

13.5 10.3

3+00 13.6 10.4

STA. W. 117400; 0400 = 30' NLY. OF B/L

	Dist	Sound	Elev	Dist	Sound	Elev
0400				(33)	13.7	10.4
(3.3)				50	13.6	10.3
	2.2	+1.1			13.6	10.3
	7.7	4.4			13.5	10.2
	9.6	6.3			13.4	10.1
50	10.6	7.3			13.3	10.0
	11.1	7.8	3100	12.7	9.4	
	11.6	8.3				
<u>1115</u>	12.0	8.7				
	12.7	9.4				
<u>1400</u>	13.1	9.8				
	13.3	10.0				
	13.3	10.0				
	13.5	10.2				
	13.4	10.1				
50	13.6	10.3				
	13.7	10.4				
	14.0	10.7				
	13.8	10.5				
	13.8	10.5				
2400	13.9	10.6				
	13.9	10.6				
	13.8	10.5				
	13.8	10.5				

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STA. W. 116400; 0400 = 30' NLY. OF B/L

	Dist	Sound	Elev	Dist	Sound	Elev
0400				(33)	13.7	10.4
(3.3)				50	13.9	10.6
					13.7	10.4
	1.0	+2.3			13.0	9.7
	4.2	0.9			12.5	9.2
50	11.1	7.8			12.9	9.6
	12.9	9.6	3100	13.0	9.7	
	14.8	11.5				
<u>1110</u>	15.0	11.7				
	14.6	11.3				
1400	13.8	10.5				
	14.4	11.1				
	14.5	11.2				
	14.3	11.0				
	14.1	10.8				
50	14.1	10.8				
	13.7	10.4				
	13.7	10.4				
	14.0	10.7				
	13.6	10.3				
2400	13.7	10.4				
	13.5	10.2				
	13.4	10.1				
	13.4	10.1				

STA. W. 115700; CHD = 20' NLY OF B/L

	Dist	Sound	Elev	Dist	Sound	Elev
0+00				(4.1)	15.1	11.0
(9.1)				50	15.1	11.0
					15.2	11.1
	0.5	+3.6			15.0	10.9
	1.5	+2.6			15.0	10.9
50	4.1	0			15.0	10.9
	11.4	7.3	3+00	15.1	11.0	
11:55	13.5	9.4				
<u>11:55</u>	13.3	9.2				
	13.9	9.8				
1+00	13.2	9.1				
	13.6	9.5				
	13.5	9.4				
	13.6	9.5				
	14.0	9.9				
50	14.6	10.5				
	14.4	10.3				
	14.8	10.7				
	14.7	10.6				
	15.0	10.9				
2+00	15.0	10.9				
	15.2	11.1				
	15.6	11.5				
	15.0	10.9				

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STA. W. 114400; CHD = 20' NLY OF B/L

	Dist	Sound	Elev	Dist	Sound	Elev
0+00				(4.2)	15.6	11.4
(9.2)				50	15.7	11.5
					15.8	11.6
	0.4	+3.8			15.9	11.7
	2.0	+2.2			15.8	11.6
50	5.3	10.1			15.9	11.7
	12.3	8.1	3+00	15.8	11.6	
11:50	14.1	9.9				
<u>11:50</u>	14.8	10.6				
	15.0	10.8				
1+00	15.1	10.9				
	15.6	11.4				
	15.6	11.4				
	15.8	11.6				
	15.9	11.7				
50	15.9	11.7				
	15.9	11.7				
	16.0	11.8				
	16.0	11.8				
	15.8	11.6				
2+00	15.6	11.4				
	15.7	11.5				
	15.7	11.5				
	15.6	11.4				

STA. W. 113+00' 0400 = 30' NLY. OF B/L

Dist Sound Elev Dist Sound Elev

0400

(4.3)

1.0 +3.3

2.8 +1.5

6.0 1.7

50 11.2 6.9

13.0 8.7 3+00

11:40 13.8 9.5

13.9 9.6

14.6 10.3

1+00 14.6 10.3

14.6 10.3

13.8 9.5

14.1 9.8

14.4 10.1

50 14.6 10.3

14.7 10.4

15.0 10.7

14.8 10.5

15.0 10.7

2+00 15.0 10.7

15.0 10.7

15.0 10.7

15.0 10.7

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STA. W. 112+00' 0400 = 20' NLY. OF B/L

Dist Sound Elev Dist Sound Elev

0400

(4.3)

1.0 +3.3

3.1 +1.2

50 9.2 4.9

12.3 8.0 3+00

11:35 13.1 8.8

13.7 9.4

13.7 9.4

1+00 13.5 9.2

13.0 8.7

13.0 8.7

13.1 8.8

12.9 8.6

50 12.7 8.4

12.6 8.3

12.9 8.6

13.0 8.7

13.5 9.2

2+00 13.6 9.3

14.0 9.7

14.0 9.7

14.0 9.7

STA. W. 111400 CHD=30' NLY. OF B/L

	Dist	Sound	Elev	Dist	Sound	Elev
0+00	(4.5)			(4.5)	14.0	9.5
	4.5	+0.3	+4.8	50	14.0	9.5
		1.3	+3.2		14.2	9.7
		3.0	+1.5		14.2	9.7
		7.8	+3.3		14.1	9.6
50	12.0	7.5		50	14.2	9.7
	13.6	9.1	3100	14.6	10.1	
11:30	13.9	9.4				
	14.1	9.6				
	14.1	9.6				
1+00	14.0	9.5				
	14.0	9.5				
	14.0	9.5				
	14.0	9.5				
	14.4	9.9				
50	14.2	9.7				
	13.3	8.8				
	13.7	9.2				
	13.8	9.3				
	14.0	9.5				
2+00	14.0	9.5				
	13.9	9.4				
	14.1	9.6				
	14.0	9.5				

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STA. W. 110400 CHD=30' NLY. OF B/L

	Dist	Sound	Elev	Dist	Sound	Elev
0+00	(4.5)			(4.5)	14.1	9.6
	4.5			50	14.0	9.5
	0.5	+4.0			14.6	10.1
	1.5	+3.0			14.5	10.0
	3.0	+1.5			14.3	9.8
50	8.1	3.6		50	14.4	9.9
	13.1	8.6	3100	14.4	9.9	
11:20	14.8	10.3				
	15.3	10.8				
	15.6	11.1				
1+00	15.7	11.2				
	15.9	11.4				
	15.8	11.3				
	15.7	11.2				
	15.7	11.2				
50	15.5	11.0				
	15.4	10.9				
	15.3	10.8				
	15.2	10.7				
	14.8	10.3				
2+00	14.5	10.0				
	14.8	10.3				
	14.2	9.7				
	14.2	9.7				

STA. W. 109+00; 0+00=30' NLY. OF B/L

Dist South Elev Dist South Elev

0+00			4.5	14.1	9.6
(4.5)			50	14.1	9.6
	1.5	+3.0		14.1	9.6
	2.4	+2.1		14.1	9.6
	5.0	0.5		14.3	9.8
50	10.3	5.8		14.3	9.8
	12.1	7.6	3+00	14.2	9.7
11:15	12.1	7.6			
<u>11:15</u>	12.7	8.2			
	13.2	8.7			
1+00	13.8	9.3			
	14.5	10.0			
	14.9	10.4			
	14.8	10.3			
	14.9	10.4			
50	14.8	10.3			
	15.2	10.7			
	15.2	10.7			
	15.1	10.6			
	15.0	10.5			
2+00	14.8	10.3			
	15.0	10.5			
	14.5	10.0			
	14.2	9.7			

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STA. W. 108+00; 0+00=40' NLY. OF B/L

Dist South Elev Dist South Elev

0+00				15.4	10.9
(4.5)	1.0	+3.5	50	15.4	10.9
	3.3	+1.2		15.6	11.1
	7.2	2.7		15.0	10.5
	13.4	8.9		14.9	10.4
50	15.5	11.0		15.0	10.5
	15.5	11.0	3+00	14.8	10.3
11:05	15.7	11.2			
<u>11:05</u>	16.0	11.5			
	15.7	11.2			
1+00	16.1	11.6			
	14.8	10.3			
	15.1	10.6			
	15.3	10.8			
	15.5	11.0			
50	15.5	11.0			
	14.9	10.4			
	14.9	10.4			
	15.1	10.6			
	15.1	10.6			
2+00	15.3	10.8			
	15.3	10.8			
	15.1	10.6			
	15.7	11.2			

STA. W. 107+00: 0400- 30' NLY. OF B/L

Dist Sound Elev Dist Sound Elev

Time	Dist	Sound	Elev	Dist	Sound	Elev
0400	(4.6)	0.2	+4.4	(4.6)	15.6	11.0
		2.3	+2.3	50	15.9	11.3
		4.8	+0.2		15.9	11.3
		6.5	1.9		16.1	11.5
	50	14.8	10.2		16.2	11.6
		15.7	11.1		16.4	11.8
		15.5	10.9	3100	17.0	12.4
10:50		15.0	10.4			
		15.0	10.4			
1+00		15.0	10.4			
		15.1	10.5			
		15.4	10.8			
		15.3	10.7			
		15.5	10.9			
	50	15.5	10.9			
		14.8	10.2			
		14.4	9.8			
10:55		14.5	9.9			
		14.5	9.9			
2+00		14.3	9.7			
		14.9	10.3			
		15.0	10.4			
		15.4	10.8			

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(18)

STA. W. 106+00: 0400- 30' NLY. OF B/L

Dist Sound Elev Dist Sound Elev Dist Sound Elev

Time	Dist	Sound	Elev	Dist	Sound	Elev
0400	(4.6)	15.4	10.8	(4.6)	15.4	10.8
		50	15.3	50	15.3	10.7
		1.3	+3.3		15.7	11.1
		2.7	+1.9		15.3	10.7
		6.8	2.2		15.2	10.6
	50	10.4	5.8		15.4	10.8
		14.3	9.7	3100	15.6	11.0
10:45		15.1	10.5			
		15.3	10.7			
		15.1	10.5			
1+00		15.1	10.5			
		15.3	10.7			
		15.2	10.6			
		15.2	10.6			
		15.1	10.5			
	50	14.8	10.2			
		14.8	10.2			
		14.7	10.1			
		14.7	10.1			
		14.8	10.2			
2+00		14.9	10.3			
		15.0	10.4			
		15.2	10.6			
		15.1	10.5			

STA. W. 105+00: OHOD = 60' NLY. OF B/L

Dist Sound Elev Dist Sound Elev

OHOD	Dist	Sound	Elev	OHOD	Dist	Sound	Elev
(4.6)	4.8	10.2		(4.6)	16.2	11.6	
	10.1	5.5		50	16.3	11.7	
	12.2	7.6			15.7	11.1	
	13.5	8.9			16.2	11.6	
50	14.1	9.5			16.0	11.4	
	14.4	9.8		50	16.3	11.7	
	14.7	10.1			16.8	12.2	
	14.7	10.1		3+00			
	14.4	9.8					
1+00	14.7	10.1					
	14.6	10.0					
	14.5	9.9					
	14.4	9.8					
	14.4	9.8					
50	14.6	10.0					
	14.8	10.2					
	14.9	10.3					
	15.0	10.4					
	15.3	10.7					
2+00	15.3	10.7					
	15.6	11.0					
	15.7	11.1					
	15.9	11.3					

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(13)

STA. W. 104+00: OHOD = 30' NLY. OF B/L

Dist Sound Elev Dist Sound Elev

OHOD	Dist	Sound	Elev	OHOD	Dist	Sound	Elev
(4.6)				(4.6)	15.3	10.7	
				50	15.2	10.6	
	1.5	+3.1			15.3	10.7	
	3.7	+0.9			15.4	10.8	
	8.4	3.8			15.4	10.8	
50	13.3	8.7		50	15.4	10.8	
	14.4	9.8			15.6	11.0	
10+35	14.6	10.0		3+00			
	14.6	10.0					
	14.5	9.9					
1+00	14.6	10.0					
	14.8	10.2					
	14.8	10.2					
	14.9	10.3					
	15.0	10.4					
50	14.9	10.3					
	15.0	10.4					
	14.8	10.2					
	15.0	10.4					
	15.2	10.6					
2+00	15.3	10.7					
	15.3	10.7					
	15.3	10.7					
	15.4	10.8					

STA. W. 103+00; CHD = 30' NLY. OF B/L

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(46)	14.9	10.3
(4.6)			50	14.9	10.3
	0.7	+3.9		14.8	10.2
	3.9	+0.7		14.9	10.3
	5.7	1.1		14.9	10.3
50	11.6	7.0		15.1	10.5
	14.2	9.6	3+00	15.0	10.4
10:25	14.4	9.8			
<u> </u>	14.6	10.0			
	14.6	10.0			
1+00	14.2	9.6			
	13.9	9.3			
	13.9	9.3			
	14.0	9.4			
	14.0	9.4			
50	13.8	9.2			
	13.9	9.3			
	13.8	9.2			
	13.9	9.3			
	14.0	9.4			
2+00	14.0	9.4			
	14.1	9.5			
	14.4	9.8			
	14.4	9.8			

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(25)

STA. W. 102+00; CHD = 30' NLY. OF B/L

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(46)	14.0	9.4
(4.6)			50	14.1	9.5
	1.1	+3.5		14.0	9.4
	2.9	+1.7		14.0	9.4
	4.8	0.2		13.9	9.3
50	6.8	2.2		13.8	9.2
	13.1	8.5	3+00	13.8	9.2
10:20	14.2	9.6			
<u> </u>	14.2	9.6			
	14.0	9.4			
1+00	14.4	9.8			
	14.3	9.7			
	14.2	9.6			
	13.9	9.3			
	14.0	9.4			
50	14.0	9.4			
	14.0	9.4			
	14.0	9.4			
	14.1	9.5			
	14.1	9.5			
2+00	14.3	9.7			
	14.3	9.7			
	14.4	9.8			
	14.1	9.5			

STA. W. 101400: 0400 = 40' NLY. OF B/C

Dist Sound Elev Dist Sound Elev

0400 (4.6) 0.9 +3.7 50 13.2 8.6

(4.6) 2.0 +2.6 50 13.2 8.6

5.2 0.6 13.3 8.7

12.0 7.4 13.6 9.0

50 13.3 8.7 13.7 9.1

14.0 9.4 3400 14.0 9.4

14.2 9.6 14.1 9.5

10:15 14.0 9.4

14.0 9.4

14.0 9.4

1400 14.0 9.4

13.6 9.0

13.5 8.9

13.3 8.7

13.2 8.6

50 13.1 8.5

13.0 8.4

12.7 8.1

12.6 8.0

12.7 8.1

2400 12.6 8.0

12.7 8.1

12.7 8.1

13.0 8.4

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STA. W. 100400: 0400 = 50' NLY. OF B/C

Dist Sound Elev Dist Sound Elev

0400 (4.6) 1.7 +2.9 50 14.9 10.3

(4.6) 4.3 +0.3 50 15.0 10.4

11.7 7.1 15.0 10.4

13.6 9.0 15.0 10.4

50 15.2 10.6 15.2 10.6

15.6 11.0 3400 15.2 10.6

10:10 15.8 11.2

15.6 11.0

15.5 10.9

1400 15.3 10.7

15.2 10.6

14.7 10.1

14.8 10.2

14.9 10.3

50 15.0 10.4

15.1 10.5

14.9 10.3

14.6 10.0

14.5 9.9

2400 14.6 10.0

14.7 10.1

15.0 10.4

15.0 10.4

STA. W. 99+00; O+00 = 30' NLY. OF B/C

	Dist	Sound	Elev	Dist	Sound	Elev
O+00				(46)	15.1	10.5
(4.6)				50	15.0	10.4
	2.9	+1.7			15.1	10.5
	3.6	+1.0			15.2	10.6
	6.0	1.4			15.1	10.5
50	12.8	8.2			15.0	10.4
	15.0	10.4	3+00	14.8	10.2	
10:05	15.6	11.0				
	15.9	11.3				
	15.6	11.0				
1+00	15.4	10.8				
	15.5	10.9				
	15.5	10.9				
	15.3	10.7				
	15.0	10.4				
50	15.1	10.5				
	15.0	10.4				
	15.2	10.6				
	15.1	10.5				
	15.2	10.6				
2+00	15.0	10.4				
	15.0	10.4				
	14.6	10.0				
	14.9	10.3				

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STA. W. 98+00; O+00 = 30' NLY. OF B/C

	Dist	Sound	Elev	Dist	Sound	Elev
O+00				(46)	15.0	10.4
(4.6)				50	15.1	10.5
	0.2	+4.4			15.2	10.6
	2.0	+2.6			15.3	10.7
	3.9	+0.7			15.6	11.0
	5.9	1.3			15.3	10.7
50	13.0	8.4			15.6	11.0
	14.6	10.0	3+00	15.6	11.0	
9:55	15.3	10.7				
	15.7	11.1				
	15.7	11.1				
1+00	16.0	11.4				
	16.1	11.5				
	15.9	11.3				
	16.0	11.4				
	15.8	11.2				
50	15.9	11.3				
	15.6	11.0				
	15.7	11.1				
	15.5	10.9				
	15.6	11.0				
2+00	15.6	11.0				
	15.1	10.5				
	14.9	10.3				
	14.5	9.9				

8-10-61, (23)
 STA. W. 97+00; 0400=30' NLY. OF B/L

	Dist	Sound	Elev	Dist	Sound	Elev
0400	(4.6)	0.1	+4.5	(4.6)	15.5	10.9
		1.9	+2.7	50	15.7	11.1
		4.0	+0.6		15.8	11.2
		7.2	2.6		15.9	11.3
50		12.1	7.5		16.1	11.5
		14.4	9.8	3+00	16.0	11.4
9:50		15.4	10.8		15.7	11.1
		15.4	10.8			
		15.7	11.1			
1+00		15.7	11.1			
		15.7	11.1			
		15.6	11.0			
		15.5	10.9			
		15.4	10.8			
50		15.4	10.8			
		15.6	11.0			
		15.7	11.1			
		15.6	11.0			
		15.4	10.8			
2+00		15.4	10.8			
		15.6	11.0			
		15.5	10.9			
		15.6	11.0			

8-10-61, (23)
 STA. W. 96+00; 0400=30' NLY. OF B/L

	Dist	Sound	Elev	Dist	Sound	Elev
0+00	(4.6)	0.0	+4.6	(4.6)	15.6	11.0
		1.9	+2.7	50	15.6	11.0
		4.0	+0.6		15.5	10.9
		7.1	2.5		15.7	11.1
50		10.9	6.3		15.9	11.3
		13.8	9.2	3+00	15.9	11.3
9:45		15.0	10.4		16.0	11.4
		15.2	10.6			
		15.1	10.5			
1+00		15.1	10.5			
		15.1	10.5			
		15.3	10.7			
		15.4	10.8			
		15.6	11.0			
50		15.5	10.9			
		15.4	10.8			
		15.2	10.6			
		15.2	10.6			
		15.3	10.7			
2+00		15.5	10.9			
		15.5	10.9			
		15.4	10.8			
		15.6	11.0			

8-10-61

STA. W. 95+00; 0+00 = 30' NLY. OF B/L

Dist Sound Elev Dist Sound Elev

0+00 (4.5) 16.1 11.6

(4.5) 0.2 +4.3 50 16.3 11.8

2.0 +2.5 16.7 12.2

4.1 +0.4 16.7 12.2

5.9 1.4 9:40 17.0 12.5

50 11.0 6.5 16.9 12.4

13.2 8.7 3+00 17.0 12.5

9:35 14.9 10.4

15.1 10.6

15.0 10.5

1+00 15.2 10.7

15.6 11.1

15.9 11.4

15.7 11.2

16.0 11.5

50 16.1 11.6

16.3 11.8

16.2 11.7

16.3 11.8

16.2 11.7

2+00 16.2 11.7

16.3 11.8

16.2 11.7

16.1 11.6

CROSS SECTIONS SOUTH SHORE OF MISSION BAY ELY. FROM PEREZ COVE

NOTE: N. DENOTES NLY. @ 90° TO SHORE

STA. W. 135+00; 0+00 = N. 5858.00

STA + H.I. - Elev (TP 932)

TP. 17.49 0.59 16.90-16.90

0 12.1 5.4

5.17 10.0 7.5

5.25 4.7 12.8

5.40 3.8 13.7

N.50 15.7 1.8

STA. W. 134+00; 0+00 = N. 5896.72

0 3.5 14.0

5.10 4.0 13.5

N.5 3.0 14.5

N.6 10.0 7.5

N50 15.2 2.3

STA. W. 133+00; 0+00 = N. 5935.44

0 17.49 3.5 14.0

5.10 3.0 14.5

N29 3.9 13.6

N40 11.1 6.4

N60 15.1 2.4

8-11-61

(25)

STA. W. 132+00; 0+00 = N. 5974.16

Sta.	+	H.I.	-	Elev
0		17.49	2.2	15.3
5.10			1.3	16.2
N. 50			6.8	10.7
N. 56			10.7	6.8
N. 69			12.7	4.8
N. 70			13.7	3.8
N. 80			15.3	2.2

STA. W. 131+00; 0+00 = N. 6012.88

0		1.4	16.1
5.10		1.2	16.3
N. 51		5.3	12.2
N. 60		10.8	6.7
N. 80		14.4	3.1

STA. W. 130+00; 0+00 = N. 6051.60

0		1.7	15.8
5.10		3.0	14.5
N. 51		3.2	14.3
N. 60		11.1	6.4
N. 80		14.8	2.7

STA. W. 129+00; 0+00 = N. 6090.32

Sta.	+	H.I.	-	Elev
0		17.49	3.2	14.3
5.10			3.0	14.5
N. 23			3.4	14.1
N. 30			9.9	7.6
N. 50			12.5	5.0
N. 50			13.2	4.3
N. 70			14.3	3.2
T.P.	2.18	17.49	2.87	15.27 ~ 15.31

STA. W. 128+00; 0+00 = N. 6125.32

0		18.14	2.7	15.4
5.10			3.7	14.4
N. 26			7.3	10.8
N. 29			11.6	6.5
N. 36			12.7	5.4
N. 37			13.7	4.4
N. 60			16.9	1.2

STA. W. 127+00; 0+00 = N. 6124.76

0		3.8	14.3
5.10		4.4	13.7
N. 22		7.7	10.4
N. 23		11.5	6.6
N. 50		15.6	2.5

STA. W. 126+00; 0+00 = N. 6102.06

Sta.	+	H.I.	-	Elev
0		18.14	5.3	12.8
S. 10			4.1	14.0
N. 23			7.9	10.2
N. 24			11.6	6.5
N. 50			15.5	2.6

STA. W. 125+00; 0+00 = N. 6068.78

0		4.3	13.8
S. 10		3.2	14.9
N. 19		7.7	10.4
N. 21		11.5	6.6
N. 60		16.0	2.1

STA. W. 124+00; 0+00 = N. 6035.51

0		6.9	11.2
S. 6		1.6	16.5
S. 13		3.5	14.6
N. 5		11.9	6.2
N. 40		12.3	5.8
N. 44		13.6	4.5
N. 60		15.6	2.5

STA. W. 123+00; 0+00 = N. 6002.23

Sta.	+	H.I.	-	Elev
0		18.14	3.8	14.3
S. 10			4.2	13.9
N. 18			6.4	11.7
N. 23			11.5	6.6
N. 60			16.0	2.1

STA. W. 122+00; 0+00 = N. 5968.95

0		4.7	13.4
S. 10		4.6	13.5
N. 22		7.0	11.1
N. 25		11.5	6.6
N. 60		16.1	2.0

STA. W. 121+00; 0+00 = N. 5935.68

0		3.6	14.5
S. 10		4.1	14.0
N. 13		4.4	13.7
N. 16		10.6	7.5
N. 60		15.7	2.4

STA. W. 120+00; CHOD = N. 5902.40

Sta.	+	H. I.	-	Elev
0		16.10	2.6	13.5
5.10			2.6	13.5
N. 20			5.3	10.8
N. 25			8.7	7.4
N. 50			13.3	2.8
TR			2.22	13.88

4.26 18.14

STA. W. 119+00; CHOD = N. 5869.13

0			2.8	13.3
5.10			3.1	13.0
N. 12			2.5	13.6
N. 20			9.5	6.6
N. 50			13.0	3.1

STA. W. 118+00; CHOD = N. 5835.85

0			4.1	12.0
5.10			4.0	12.1
N. 18			3.8	12.3
N. 24			6.0	10.1
N. 27			8.8	7.3
N. 50			12.9	3.2

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STA. W. 117+00; CHOD = N. 5802.57

Sta.	+	H. I.	-	Elev
0		16.10	4.5	11.6
5.10			4.6	11.5
N. 26			5.0	11.1
N. 27			9.3	6.8
N. 40			12.5	3.6

STA. W. 116+00; CHOD = N. 5769.30

0			3.5	12.6
5.10			4.1	12.0
N. 12			5.8	10.3
N. 16			8.8	7.3
N. 60			13.9	2.2

STA. W. 115+00; CHOD = N. 5736.02

0			2.6	13.5
5.10			3.1	13.0
N. 11			4.9	11.2
N. 18			9.0	7.1
N. 50			12.5	3.6

8-11-61

(28)

STA. W. 114+00's 0+00 = N. 5702.75

Sta.	+	H.I.	-	Elev
0		16.10	2.3	13.8
S. 10			3.0	13.1
N. 10			2.7	13.4
N. 18			9.8	6.3
N. 50			12.5	3.6

STA. W. 111+00's 0+00 = N. 5602.92

Sta.	+	H.I.	-	Elev
0		17.58	5.8	11.8
S. 10			5.6	12.0
N. 23			7.1	10.5
N. 25			11.0	6.6
N. 40			12.8	4.8

STA. W. 113+00's 0+00 = N. 5669.47

Sta.	+	H.I.	-	Elev
0		17.58	4.2	13.4
S. 10			4.5	13.1
N. 19			6.1	11.5
N. 21			11.0	6.6
N. 50			14.3	3.3
T.P.			4.17	13.41

2.69 16.10

STA. W. 112+00's 0+00 = N. 5636.19

Sta.	+	H.I.	-	Elev
0		17.58	3.7	13.9
S. 10			4.0	13.6
N. 19			7.6	10.0
N. 21			11.1	6.5
N. 50			14.4	3.2

STA. W. 110+00's 0+00 = N. 5569.64

Sta.	+	H.I.	-	Elev
0			3.6	14.0
S. 10			4.0	13.6
N. 20			7.3	10.3
N. 21			10.8	6.8
N. 40			13.6	4.0

STA. W. 109+00's 0+00 = N. 5536.37

Sta.	+	H.I.	-	Elev
0			4.2	13.4
S. 20			1.8	15.8
N. 22			7.1	10.5
N. 24			11.3	6.3
N. 50			14.7	2.9

8-11-61

STA. W. 108+00' O+00 = N. 5503.09

Sta	+	H.I.	-	Elev
0		17.58	2.2	15.4
S. 10			0.6	17.0
N. 30			10.0	7.6
N. 50			14.0	3.6

STA. W. 107+00' O+00 = N. 5469.81

0			3.6	14.0
S. 20			1.9	15.7
N. 28			9.8	7.8
N. 30			11.4	6.2
N. 40			13.3	4.3

STA. W. 106+00' O+00 = N. 5436.54

B.M.	3.04	17.58		14.54	MON, BEAN
0			2.8	14.8	
S. 20			1.8	15.8	
N. 3			2.7	14.9	
N. 30			10.6	7.0	
N. 31			11.3	6.3	
N. 50			14.4	3.2	
TP.	16.40	1.90	14.50	~14.54	

STA. W. 105+00' O+00 = N. 5403.40

Sta	+	H.I.	-	Elev
0		16.40	1.8	14.6
S. 10			1.6	14.8
N. 5			2.6	13.8
N. 8			4.3	12.1
N. 28			6.4	10.0
N. 56			10.0	6.4
N. 62			10.8	5.6
N. 63			12.0	4.4

STA. W. 104+00' O+00 = N. 5380.02

0			3.8	12.6
S. 10			2.6	13.8
N. 19			7.9	8.5
N. 24			9.1	7.3
N. 50			13.3	3.1

STA. W. 103+00' O+00 = N. 5360.26

0			3.8	12.6
S. 5			2.4	14.0
S. 10			1.8	14.6
N. 18			5.2	11.2
N. 29			8.4	8.0
N. 32			10.0	6.4
N. 50			13.4	3.0

STA. W. 102+00; 0+00 = N. 5343.78

Sta.	+	H.I.	-	Elev
0		16.40	0.6	15.8
S. 10			0.8	15.6
N. 22			4.6	11.8
N. 30			7.6	8.8
N. 36			10.4	6.0
N. 43			11.4	5.0
N. 43			12.1	4.3
N. 50			13.0	3.4

STA. W. 101+00; 0+00 = N. 5327.34

0			2.8	13.6
S. 12			0.6	15.8
N. 19			3.3	13.1
N. 30			7.5	8.9
N. 33			10.0	6.4
N. 58			12.7	3.7

STA. W. 100+00; 0+00 = N. 5310.90

0		17.95	1.5	16.4
S. 10			0.8	17.1
N. 37			7.4	10.5
N. 42			11.5	6.4
N. 60			15.1	2.8
T.P.			4.60	13.35
	3.05	16.40		

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STA. W. 99+00; 0+00 = N. 5294.45

Sta.	+	H.I.	-	Elev
0		17.95	3.2	14.7
S. 10			2.6	15.3
N. 16			5.5	12.4
N. 26			9.1	8.8
N. 27			10.3	7.6
N. 40			12.7	5.2
N. 40			13.6	4.3

STA. W. 98+00; 0+00 = N. 5278.00

0			3.2	14.7
S. 10			3.0	14.9
N. 25			9.0	8.9
N. 26			10.3	7.6
N. 36			12.0	5.9
N. 36			12.9	5.0
N. 40			13.6	4.3

STA. W. 97+00; 0+00 = N. 5261.56

0			2.7	15.2
S. 10			3.1	14.8
N. 16			6.0	11.9
N. 28			9.3	8.6
N. 29			10.5	7.4
N. 40			12.9	5.0
N. 40			13.6	4.3

8-11-61

STA. W. 96+00) 0+00 = N. 5245.12

Sta.	+	H.I.	-	Elev
B.M.	2.64	17.95		15.31
0			1.9	16.0
5.10			2.8	15.1
N.26			9.2	8.7
N.27			10.4	7.5
N.40			13.4	4.5

STA. W. 95+00) 0+00 = N. 5228.67

0		4.0	13.9
5.10		3.6	14.3
N.10		6.4	11.5
N.30		10.9	7.0
N.40		13.7	4.2

BENCH LEVELS SOUTH SHORE MISSION
BAY; ELY FROM PEREZ CONE

STA.	+	H.I.	-	Elev
B.M.				18.10
	4.76	22.86		
T.P.			5.09	17.77
	5.03	22.80		
T.P.			5.90	16.90
	4.64	21.54		
T.P.			6.23	15.31
	4.85	20.16		
T.P.			5.29	14.87
	3.99	18.86		
B.M.			3.03	15.83
	2.59	18.42		
T.P.			6.98	11.44
	6.47	17.91		
T.P.			4.50	13.41
	3.55	16.96		
T.P.			3.48	13.48
	6.74	20.22		
B.M.			5.68	14.54
	5.81	20.35		
T.P.			6.87	13.48
	3.53	17.01		
T.P.			3.60	13.41

8-09-61

Stampel
Gaddy
Hecht
Borris

MON. MOOSE N. 5200.08; W. 13.699, 44

B/L Sta. N. 6125.32; W. 128+00" 2X2" Hub

MON. "CLIFF" N. 5935.68; W. 121.00

Sta. N. 5802.57; W. 117+00" 2X2" Hub

Sta. N. 5669.47; W. 113+00" 2X2" Hub

Sta. N. 5336.37; W. 109+00" 2X2" Hub

MON. "BEAN" N. 5431.29; W. 10584.23

BENCH LEVELS CONTD.

8-09-61

Sta.	+	H.I.	-	Elev	
TP.				13.41	
	4.91	18.32			
TP.			6.89	11.43	
	6.65	18.08			
B.M.			2.27	15.81 ~ 15.83	Mon. "CLIFF"
	3.59	19.40			
TP.			4.41	14.99	
	5.54	20.53			
TP.			4.34	16.19	
	5.88	22.07			
TP.			3.40	18.67	
	3.77	22.44			
B.M.			4.33	18.11 ~ 18.10	Mon. "MOOSE"
B.M.			14.54		Mon. "BEAR" (See Pg. 32)
	5.00	19.54			
TP.			6.17	13.37	
	7.02	20.39			
TP.			5.30	15.09	
	3.94	19.03			
B.M.			3.72	15.31	Mon. "JIM" N. 5193.50; W. 9286.12
	3.54	18.85			
TP.			3.76	15.09	
TP.	2.86	17.95	4.60	13.35	
B.M.	3.07	16.42	1.92	14.50	14.54 Mon. BEAR

PROPOSED ALIGNMENT FOR RIP
RAP N.W.LY. TIERRA DEL FUEGO ISLAND

W.O. 64731

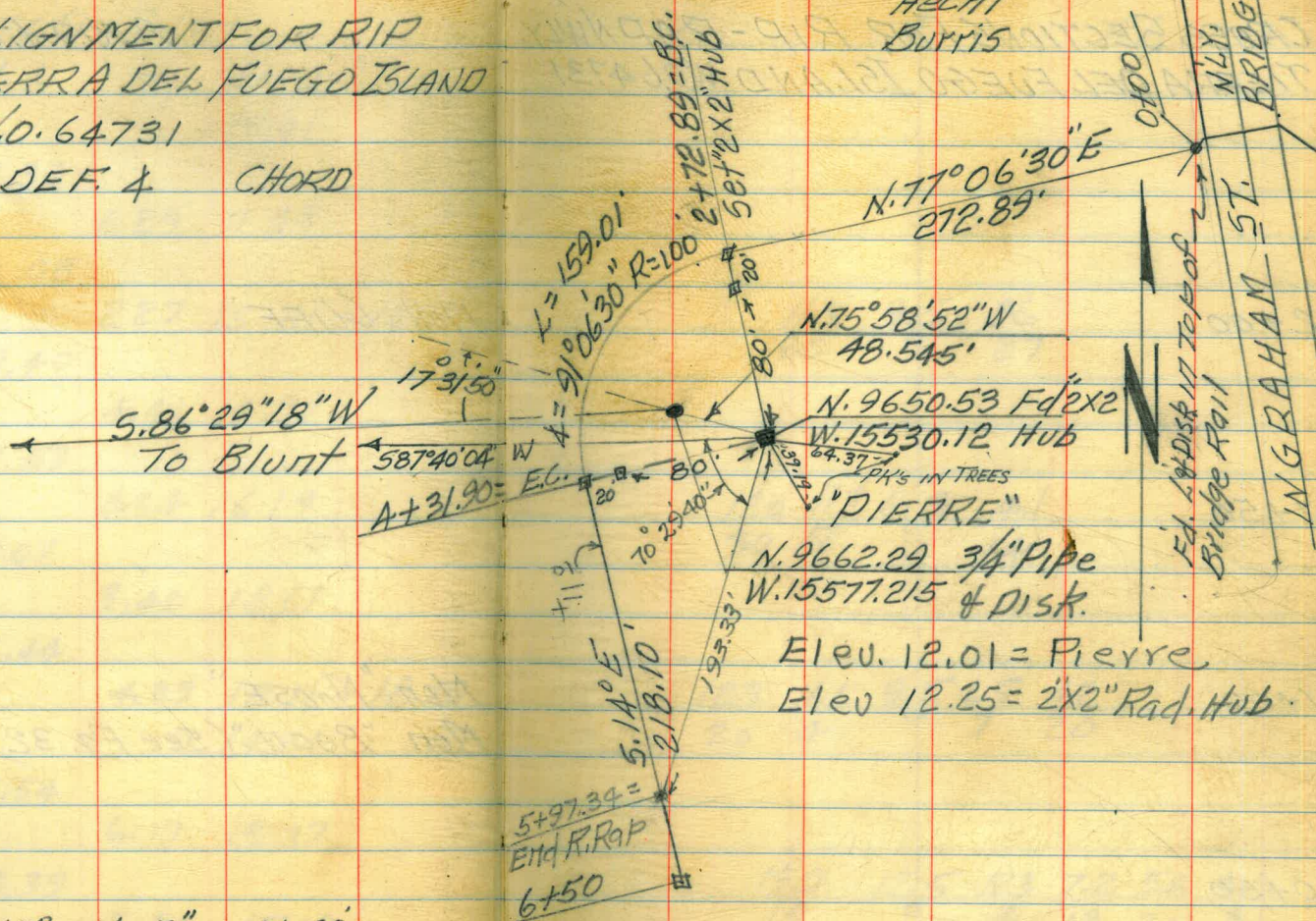
Sta. DEF. & CHORD

8-14-61

Stamper-Shorey

Hecht

Burriss



EC		
4+31.90	45° 33' 15"	31.82'
4+00	36° 24' 51"	24.93'
3+75	29° 15' 08"	"
3+50	22° 05' 25"	"
3+25	14° 55' 42"	24.93'
3+00	7° 45' 59"	27.03'
2+72.89 = B.C.Lt.	$\Delta = 91^{\circ}06'30''$	$L = 159.01'$

Elev. 12.01 = Pierre
Elev 12.25 = 2x2" Rad. Hub

8-14-61

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CROSS SECTIONS FOR RIP-RAP NWLY.
TIERRA DEL FUEGO ISLAND W. 064731

Lt. ± Rt.

2+00

11.8	9.5	36
30	0	27

1+50

12.0	11.7	6.3	4.1
30	17	0	14

1+00

12.3	11.6	9.5	6.5	4.2
20	4	0	7	20

0+50

13.0	12.5	12.3	7.2	5.8	4.4
10	0	4	13	20	31

0+00

13.82	12.0	7.2	5.6	5.1	4.4
TOP of	0	14	22	31	37

W179 W41

B.M.

(see sketch)
12.01 Pierre

CROSS SEC'S. NWLY. TIERRA DEL CONTO.

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	Lt.		E		Rt.	
4+31.90 E.C.	12.2 30	11.9 0	6.9 17	5.5 19	3.6 29	
4+00 P.O.C.	12.1 30	12.4 10	10.4 0	6.2 9	4.4 17	
3+75 P.O.C.	12.2 40	11.6 7	10.0 0	8.2 2	6.6 4	4.4 13
3+50 P.O.C.	12.4 50	10.7 18	10.0 17	6.4 0	4.3 12	
3+25 P.O.C.	12.1 35	10.7 7	8.3 5	7.3 0	4.3 14	
3+00 P.O.C.	12.0 30	11.1 4	7.6 0	4.6 16		
2+72.89 = B.C. Lt.	12.1 30	10.0 0	8.4 6	6.8 8	4.5 20	
2+50	11.9 40	10.8 19	6.5 9	5.3 0	4.4 7	

NOTE: Beginning @ B.C., Through E.C.

Sec's are taken Lt. & Rt.

from 80' Radius or 20'

Offset in-shore; Other

Sec's are on Baselines as

Shown on Sketch

CROSS SECTIONS NWLY. TIERRA DEL CONTO.
5TA.

8-14-61

Lt. £ Rt.

B.M.

12.01 ~ 12.01

(Starting Bench)

6+50

12.7 12.3 12.0 5.6 4.1
20 0 8 29 37

6+00

12.6 11.9 10.6 6.3 5.1 4.1
30 4 0 8 12 20

5+50

12.5 12.2 10.6 5.6 4.1
30 3 0 13 20

5+00

12.3 12.1 10.5 4.2
30 3 0 19

4+50

12.5 12.1 9.6 7.2 4.1
40 14 8 0 10

8-16-61.

SOUNDINGS FOR RIP RAP NWLY. TIERRA DEL FUEGO

STA. 0+00; 0+00 = 30' NW of B/L (See Sketch)

	Dist	Sound	Elev	Dist	Sound	Elev
0+00						
	0.6		+4.3			
	1.4		+3.5			
	2.0		+2.9	50		
	2.7		+2.2			
50	3.2		+1.7			
	4.1		+0.8			
1:30	4.7		+0.2			
~	5.3		0.4			
(4.9)	7.6		2.7			
1+00	9.4		4.5			
	10.5		5.6			
	11.4		6.5			
	13.0		8.1			
	13.4		8.5			
50	15.1		10.2			
	15.0		10.1			
	14.3		9.4			
	15.0		10.1			
	15.9		11.0			
2+00	15.5		10.6			

STA. 0+50; 0+00 = 30' NW OF B/L

	Dist	Sound	Elev
0+00	0.4		+4.5
	1.2		+3.7
	2.0		+2.9
	2.9		+2.0
	3.5		+1.4
50	4.2		+0.7
	5.1		0.2
1:35	5.6		0.7
~	8.6		3.7
(4.9)	10.5		5.6
1+00	11.8		6.9
	12.4		7.5
	13.3		8.4
	13.6		8.7
	14.2		9.3
50	14.5		9.6
	14.4		9.5
	14.6		9.7
	15.1		10.2
	15.0		10.1
2+00	15.0		10.1

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STA. 1+00: 0+00 = 20' NW. OF B/L

	DIST	SOUND	ELEV
0+00	0.4		+4.5
	1.6		+3.3
	2.5		+2.4
	3.1		+1.8
	3.7		+1.2
50	4.2		+0.7
	4.8		+0.1
1.45	5.5		0.6
	7.9		3.0
(4.9)	10.5		5.6
1+00	11.8		6.9
	13.2		8.3
	13.5		8.6
	14.0		9.1
	14.3		9.4
50	14.5		9.6
	14.8		9.9
	14.5		9.6
	14.6		9.7
	15.0		10.1
2+00	14.9		10.0

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STA. 1+50: 0+00 = 10' NW. OF B/L

	DIST	SOUND	ELEV
0+00	0.2		+4.7
	1.6		+3.3
	2.5		+2.4
	3.1		+1.8
	3.5		+1.4
50	4.1		+0.8
	4.8		+0.1
1.50	5.2		0.3
(4.9)	6.0		1.1
	9.1		4.2
1+00	10.9		6.0
	12.2		7.3
	13.1		8.2
	13.9		9.0
	14.2		9.3
50	14.3		9.4
	14.5		9.6
	14.3		9.4
	14.2		9.3
	14.0		9.1
2+00	14.0		9.1

8-16-61

STA. 2+00: 0+00 = 30' N.W. OF B/C

	Dist	Sound	Elev	Dist	Sound	Elev
	0+00	1.3	+3.5			
		2.8	+2.0			
		4.2	+0.6			
		4.9	0.1			
		5.7	0.9			
50	7.7	2.9				
	9.9	5.1				
11.55	11.5	6.7				
	11.8	7.0				
(4.8)	12.3	7.5				
1+00	12.2	7.4				
	12.5	7.7				
	12.7	7.9				
	13.0	8.2				
	13.3	8.5				
50	13.5	8.7				
	13.6	8.8				
	13.6	8.8				
	13.8	9.0				
	13.7	8.9				
2+00	13.6	8.8				

(40)

STA. 2+50: 0+00 = 10' N.W. OF B/C

	Dist	Sound	Elev	Dist	Sound	Elev
	0+00	0.7	+4.1			
		1.8	+3.0			
		3.2	+1.6			
		4.2	+0.6			
		5.0	0.2			
50	5.9	1.1				
	6.5	1.7				
2:00	9.0	4.2				
(4.8)	10.5	5.7				
	11.2	6.4				
1+00	11.9	7.1				
	12.1	7.3				
	12.5	7.7				
	12.8	8.0				
	13.1	8.3				
50	13.0	8.2				
	13.2	8.4				
	13.5	8.7				
	13.0	8.2				
	13.1	8.3				
2+00	13.2	8.4				

B.C. 8-16-61
 STA. 2+72.89; 0+00=100' OUT FROM CENTER

Dist	Sound	Elev	Dist	Sound	Elev
0+00	0.3	+4.4			
	1.5	+3.2	50		
	3.0	+1.7			
	3.9	+0.8			
	4.7	0.0			
50	5.5	0.8			
	7.1	2.4			
2:10	8.4	3.7			
<u>4.7</u>	9.6	4.9			
	10.6	5.9			
1+00	10.9	6.2			
	12.1	7.4			
	12.6	7.9			
	13.0	8.3			
	13.1	8.4			
50	13.0	8.3			
	12.8	8.1			
	12.8	8.1			
	12.9	8.2			
	12.7	8.0			
2+00	12.7	8.0			

P.O.C. RADIAL ON ALL CURVE SECS. ^(A)
 STA. 3+00; 0+00=100' OUT FROM CENTER

Dist	Sound	Elev	Dist	Sound	Elev
0+00	1.2	+3.5			
	2.0	+2.7			
	3.2	+1.5			
	4.1	+0.6			
	4.8	0.1			
50	5.1	0.4			
	5.7	1.0			
2:15	6.2	1.5			
<u>4.7</u>	7.7	3.0			
	9.1	4.4			
1+00	10.5	5.8			
	11.9	7.2			
	12.4	7.7			
	13.0	8.3			
	13.0	8.3			
50	13.0	8.3			
	12.8	8.1			
	12.8	8.1			
	12.7	8.0			
	12.6	7.9			
2+00	12.8	8.1			

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STA 3+25 P.C. 0+00 = 90' OUT FROM CENTER

Dist	Sound	Elev
0+00	0.0	+4.7
	1.3	+3.4
	2.5	+2.2
	3.7	+1.0
	4.2	+0.5
50	4.7	0.0
	5.2	0.5
2:20	5.6	0.9
	6.1	1.4
(4.7)	7.2	2.5
1+00	9.5	4.8
	11.4	6.7
	11.4	6.7
	12.1	7.4
	12.2	7.5
50	12.3	7.6
	12.2	7.5
	12.2	7.5
	12.6	7.9
	12.6	7.9
2+00	12.8	8.1

(42)

STA 3+50 P.C. 0+00 = 90' OUT FROM CENTER

Dist	Sound	Elev
0+00		
	1.4	+3.2
	2.5	+2.1
	3.7	+0.9
	4.1	+0.5
50	4.7	0.1
	5.0	0.4
2:25	5.5	0.9
	6.1	1.5
(4.6)	6.7	2.1
1+00	8.3	3.7
	10.1	5.5
	11.2	6.6
	11.6	7.0
	11.5	6.9
50	11.9	7.3
	12.5	7.9
	12.0	7.4
	12.0	7.4
	12.3	7.7
2+00	12.4	7.8

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STA. 3+75 P.O.C. 0+00 = 90' OUT FROM CENTER

Dist Sound Elev Dist Sound Elev

Sta	Dist	Sound	Elev
0+00			
	1.5		+3.0
	2.6		+1.9
	3.3		+1.2
	4.1		+0.4
50	4.5		0.0
	5.0		0.5
2:35	5.5		1.0
<u> </u>	6.0		1.5
(4.5)	6.9		1.9
1+00	8.2		3.7
	10.1		5.6
	10.6		6.1
	11.4		6.9
	11.3		6.8
50	12.2		7.7
	12.5		8.0
	12.2		7.7
	12.4		7.9
	12.6		8.1
2+00	12.7		8.2

(43)

STA. 4+00 P.O.C. 0+00 = 100' OUT FROM CENTER

Dist Sound Elev Dist Sound Elev

Sta	Dist	Sound	Elev
0+00	1.0		+3.5
	1.9		+2.6
	2.8		+1.7
	3.7		+0.8
	4.8		0.3
50	5.0		0.5
	5.6		1.1
2:40	6.6		2.1
<u> </u>	7.5		3.0
(4.5)	8.7		4.2
1+00	9.9		5.4
	10.6		6.1
	11.2		6.7
	11.1		6.6
	11.8		7.3
50	11.6		7.1
	11.7		7.2
	12.1		7.6
	12.6		8.1
	12.3		7.8
2+00	12.5		8.0

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STA. 4+31.90 E.C. 0+00 = 100' OUT FROM CENTER

Dist Sound Elev Dist Sound Elev

0+00

1.0 +3.5

1.8 +2.7

2.9 +1.6

3.5 +1.0

50 4.2 +0.3

5.0 0.5

2:50 5.3 0.8

4.5 6.9 2.4

10.2 5.7

1+00 10.6 6.1

10.8 6.3

11.2 6.7

11.7 7.2

11.7 7.2

50 12.9 8.4

12.0 7.3

12.0 7.3

12.0 7.3

11.9 7.2

2+00 11.7 7.0

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STA. 4+50; 0+00 = 10' S.W. OF B/L

Dist Sound Elev Dist Sound Elev

0+00

0.3 +4.1

1.6 +2.8

2.3 +2.1

3.0 +1.4

3.6 +0.8

50 4.4 0.0

5.1 0.7

2:55 5.8 1.4

4.4 8.9 4.5

10.4 6.0

1+00 11.1 6.7

11.1 6.7

11.3 6.9

11.5 7.1

12.0 7.6

50 12.0 7.6

11.9 7.5

12.0 7.6

11.8 7.4

11.6 7.2

2+00 11.7 7.3

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STA. 5+00: 0+00 = 20' S.W. OF B/L

	Dist	Sound	Elev	Dist	Sound	Elev
0+00	0.4		+4.0			
	1.2		+3.2			
	2.1		+2.3			
	2.8		+1.6			
	3.1		+1.3			
50	4.0		+0.4			
	4.6		0.2			
<u>3:00</u>	5.3		0.9			
<u>4.4</u>	7.9		3.5			
	9.8		5.4			
1+00	10.5		6.1			
	11.0		6.6			
	11.2		6.8			
	11.2		6.8			
	11.5		7.1			
50	11.6		7.2			
	11.6		7.2			
	11.8		7.4			
	11.7		7.3			
	11.6		7.2			
2+00	11.6		7.2			

(45)

STA. 5+50: 0+00 = 20' S.W. OF B/L

	Dist	Sound	Elev	Dist	Sound	Elev
0+00	0.4		+3.9			
	1.0		+3.3			
	1.4		+2.9			
	2.0		+2.3			
	2.8		+1.5			
50	3.4		+0.9			
	4.0		+0.3			
<u>3:10</u>	4.5		0.2			
<u>4.3</u>	5.6		1.3			
	9.5		5.2			
1+00	10.3		6.0			
	11.8		7.5			
	11.7		7.4			
	11.4		7.1			
	11.4		7.1			
50	11.5		7.2			
	11.7		7.4			
	11.7		7.4			
	11.8		7.5			
	11.8		7.5			
2+00	11.8		7.5			

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STA. 6+00; OHP=20' S.W. OF B/L

Dist Sound Elev Dist Sound Elev

0+00 0.3 +4.0

0.7 +3.6

1.0 +3.3

1.8 +2.5

2.4 +1.9

50 2.9 +1.4

3.7 +0.6

3:15 4.2 +0.1

5.3 1.0

4.3 9.6 5.3

1+00 11.1 6.8

11.5 7.2

11.6 7.3

11.7 7.4

11.8 7.5

50 11.8 7.5

12.0 7.7

12.0 7.7

12.0 7.7

12.0 7.7

2+00 12.0 7.7

(46)

STA. 6+50; OHP=30' S.W. OF B/L

Dist Sound Elev Dist Sound Elev

0+00

0.5 +3.8

1.1 +3.2

1.7 +2.6

2.5 +1.8

50 3.4 +0.9

4.5 0.2

3:25 5.7 1.4

4.3 9.8 5.5

10.6 6.3

1+00 11.4 7.1

11.5 7.2

11.6 7.3

11.8 7.5

11.5 7.2

50 11.8 7.5

11.7 7.4

11.9 7.6

12.0 7.7

12.0 7.7

2+00 12.1 7.8

10-10-61

W.O. 64731

CROSS SECTION'S SOUTH SHORE AFTER
COMPLETION FOR PROPOSED RIP-RAPSTA. W. 86+00; O+00 = N 5163, Sec. @ 90° To For. ^{To For.} _{To 17.}Sta + H.1 - Elev ^{N 2° 02' 20" W} _{Not. Jim}B.M. 2.28 17.59 15.31 ^{N 5193.50} _{N 9286.12}

0 1.9 15.7

S 2 1.4 16.2

S 17 0.8 16.8

N 47 10.2 6.4

N. 57 13.4 4.2

N. 71 15.3 2.3

STA. W. 87+00; O+00 = N 5155.44 ^{SEC. ON SPLIT 4} _{N 3° 10' 52" W}

0 2.0 15.6

S. 4 1.3 16.3

S. 19 1.0 16.6

N. 39 10.3 7.3

N 47 12.7 4.9

N 64 15.6 2.0

NOTE: N. denotes Nly.

S. " Sly.

47

STA. W 88+00; O+00 = N 5151.88 ^{SEC. ON SPLIT 4} _{N. 0° 15' 06" E}

Sta + H.1 - Elev

0 17.59 2.2 15.4

S 3 1.8 15.8

S 18 0.8 16.8

N 37 10.2 7.4

N 47 13.5 4.1

N 57 15.5 2.1

STA. W 89+00; O+00 = N 5156.32 ^{SEC. ON SPLIT 4} _{N. 3° 41' E}

0 2.7 14.9

S 3 1.6 16.0

S 18 1.1 16.5

N. 35 10.4 7.2

N. 37 11.7 5.9

N. 58 15.7 1.9

10-10-61 SEC. @ 90° To B/L
 STA. W. 90+00; 0+00 = N 5164.76 N. 4° 49' 28" E

Sta	+	H.1	-	ERU
0		17.59	3.2	14.4
S. 4			2.3	15.3
S. 19			1.4	16.2
N 31			10.2	7.4
N 33			11.7	5.9
N 53			15.7	1.9

STA. W. 91+00; 0+00 = N 5173.20 SEC. ON SPLIT 4
 N 5° 23' 32" E

0		3.1	14.5
S 5		1.9	15.7
S 20		1.5	16.1
N 32		10.4	7.2
N 35		11.8	5.8
N 55		15.8	1.8

SEC. ON SPLIT 4
 STA. W. 92+00; 0+00 = N 5183.64 N 5° 06' 37" E

Sta	+	H.1	-	ERU
0		17.59	3.6	14.0
S. 7			2.1	15.5
S. 22			1.7	15.9
N. 31			10.3	7.3
N. 33			11.6	6.0
N. 54			15.8	1.8

STA. W. 93+00; 0+00 = N 5195.78 SEC. @ 90° To B/L

0		3.0	14.6
S. 2		2.2	15.4
S. 17		1.9	15.7
N 32		10.0	7.6
N 34		11.6	6.0
N 53		15.8	1.8

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STA. W. 94+00; O+00 = N 5212.22

Note: All Sec's From This Sta Wly are Taken @ 90°
To B/L or Radially; or as Noted

Sta	+	H.I	-	Elev
0		17.59	3.7	13.9
S 8			2.3	15.3
S 23			1.8	15.8
N 32			10.5	7.1
N 34			11.8	5.8
N 55			15.8	1.8

STA. W. 95+00; O+00 = N 5228.67

0		3.6	14.0
S 7		2.2	15.4
S 22		1.7	15.9
N 31		10.0	7.6
N 33		11.6	6.0
N 53		15.7	1.9

STA. W. 96+00; O+00 = N 5245.12

Sta	+	H.I	-	Elev
0		17.59	3.4	14.2
S 7			2.3	15.3
S 22			1.5	16.1
N 33			10.3	7.3
N 34			11.1	6.5
N 56			15.9	1.7

STA. W. 97+00; O+00 = N 5261.56

0		3.4	14.2
S 5		2.6	15.0
S 20		1.5	16.1
N 33		10.2	7.4
N 36		11.6	6.0
N 59		16.0	1.6

TP.

2.42 16.22

3.79 13.80

Hub
W 98+00

10-10-61

STA. W. 98+00; O+00 = N. 5,278

Sta	+	H.I	-	Elev
0		16.22	2.4	13.8
55			1.2	15.0
520			0.4	15.8
N27			7.8	8.4
N39			10.9	5.3
N67			16.1	0.1

STA. W. 99+00; O+00 = N. 5,294.45

0			1.6	14.6
55			0.7	15.5
520			0.1	16.1
N.32			9.6	6.6
N40			10.9	5.3
N40			11.9	4.3
N66			16.2	0.0

STA. W. 100+00; O+00 = N. 5,310.90

TP	3.03	17.29	1.96	14.26
0			2.0	15.3
57			1.2	16.1
522			0.6	16.7
N39			12.2	5.1
N72			18.4	-1.1

50

STA. W. 101+00; O+00 = N. 5,327.34

Sta	+	H.I	-	Elev
0		17.29	3.3	14.0
55			2.1	15.2
520			1.1	16.2
N33			11.0	6.3
N71			18.7	-1.4

STA. W. 102+00; O+00 = N. 5,343.78

0			3.4	13.9
56			2.2	15.1
521			1.2	16.1
N39			12.7	4.6
N76			18.4	-1.1

STA. W. 103+00; O+00 = N. 5,360.26

0			2.8	14.5
515			1.9	15.4
N35			11.1	6.2
N71			18.6	-1.3

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STA. W. 104+00; O+00 = N. 5380.02

Sta	+ H.I	- Elev
0	17.29	3.0 14.3
S 15		2.0 15.3
N. 39		11.4 5.9
N 68		18.8 -1.5

STA. W. 105+00; O+00 = N. 5405.40

0		2.8 14.5
S 15		2.0 15.3
N 40		11.9 5.4
N 70		17.7 -0.4
TR		2.70 14.59 ~ 14.54

3.89 18.43

STA. W. 106+00; O+00 = N. 5436.54

0		4.4 14.0
S 4		3.6 14.8
S 19		3.0 15.4
N 32		12.1 6.3
N 65		20.1 -1.7

STA. W. 107+00; O+00 = N. 5469.81

Sta	+ H.I	- Elev
0	18.43	5.1 13.3
S 7		3.8 14.6
S 22		2.8 15.6
N 38		13.4 5.0
N 63		19.2 -0.8

STA. W. 108+00; O+00 = N. 5503.09

0		4.2 14.2
S 6		3.0 15.4
S 21		2.3 16.1
N 38		12.6 5.8
N 67		17.8 0.6
N 72		19.0 -0.6

STA. W. 109+00; O+00 = N. 5536.37

0		5.1 13.3
S 7		3.6 14.8
S 22		1.9 16.5
N 35		12.5 5.9
N 68		17.8 0.6
N 73		20.4 -2.0

(5)

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STA. W. 110400: O400 = N 5569.64

Sta	+	H.1	-	Elev
		18.43		
0			5.1	13.3
5 5			4.3	14.1
5 8			4.1	14.3
5 12			2.2	16.2
5 20			1.2	17.2
N 32			17.8	6.6
N 67			20.4	-2.0

STA. W. 111400: O400 = N 5602.92

0		4.6	13.8
5 8		2.3	16.1
5 23		1.5	16.9
N 29		10.8	7.6
N 66		17.8	0.2
		20.6	-2.2

STA. W. 112400: O400 = N. 5636.19

0		4.3	14.1
5 11		1.4	17.0
5 26		1.2	17.2
N 44		14.1	4.3
N 62		17.8	0.6
N 67		20.4	-2.0

(52)

STA. W. 113400: O400 = N 5669.47

Sta	+	H.1	-	Elev
0		18.43	4.5	13.9
5 10			1.1	17.3
5 25			1.1	17.3
N 29			10.6	7.8
N 30			11.9	6.5
N 45			14.2	4.2
N 62			17.7	0.7
N 69			20.4	-2.0

STA. W. 114400: O400 = N 5702.75

5 23		1.4	17.0
5 8		1.8	16.6
0		4.5	13.9
N 38		12.9	5.5
N 66		17.6	0.8
N 70		20.6	-2.2

STA. W. 115400: O400 = N. 5736.02

0		4.5	13.9
5 8		1.4	17.0
5 23		1.6	16.8
N 33		12.0	6.4
N 63		17.0	1.4
N 73		20.7	-2.3

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STA. W. 116+00; 0+00 = N. 5769.30

Sta	+	H.I	-	Elev
520		18.43	1.3	17.1
59			2.0	16.4
0			5.0	13.4
N.40			13.5	4.9
N.66			17.8	0.6
N.71			20.6	-2.2
TP.	5.29	18.72	5.00	13.43

STA. W. 117+00; 0+00 = N. 5802.57

0			5.5	13.2
57	?		3.1	15.6
522	.		1.6	17.1
N.33			12.6	6.1
N.52			17.2	1.0
N.60			21.4	-2.7

STA. W. 118+00; 0+00 = N. 5835.85

0				
522			1.9	16.8
57			2.4	16.3
0			4.8	13.9
N.35			12.9	5.8
N.64			18.4	0.3
N.73			20.4	-1.7

15.83

53

STA. W. 119+00; 0+00 = N. 5869.13

Sta	+	H.I	-	Elev
0		18.72	5.3	13.4
56		2.98	3.2	15.5
521		15.74	2.0	16.7
N.34			13.0	5.7
N.70			18.8	-0.1
N.72			20.8	-2.1

STA. W. 120+00; 0+00 = N. 5902.40

523			2.6	16.1
58			3.4	15.3
0			4.5	14.2
N.36			12.9	5.8
N.63			19.0	-0.3
N.65			20.8	-2.1

STA. W. 121+00; 0+00 = N. 5935.68

0			3.8	14.9
5.4			3.1	15.6
515			1.7	17.0
N.38			12.9	5.8
N.70			18.8	-0.1
N.73			20.2	-1.5

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STA. W. 122+00; O+100 = N. 5968.95

Sta	+ H.I	- Elev
	18.72	

S 21 2.1 16.6

S 6 3.4 15.3

0 3.8 14.9

N 40 13.0 5.7

N 65 18.0 0.7

N 72 20.3 -1.6

STA. W. 123+00; O+100 = N. 6002.23

0 3.9 14.8

S 6 3.4 15.3

S 20 1.9 12.8

N 38 12.8 5.9

N 69 18.3 0.4

N 74 20.3 -1.6

STA. W. 124+00; O+100 = N. 6035.51

S 21 2.3 16.4

S 6 3.6 15.1

0 4.1 14.6

N 39 12.7 6.0

N 73 18.5 0.2

N 78 20.2 -1.5

STA. W. 125+00; O+100 = N. 6068.78

Sta	+ H.I	- Elev
0	18.72	5.0 13.7

S 3 4.2 14.5

S 18 3.5 15.2

N 35 12.9 5.8

N 70 18.7 0.0

N 74 20.4 -1.7

STA. W. 126+00; O+100 = N. 6102.06

S 20 3.9 14.8

S 5 4.3 14.4

0 5.1 13.6

N 36 12.9 5.8

N 66 17.8 0.9

N 70 20.4 -1.7

STA. W. 127+00; O+100 = N. 6124.76

TP. 2.92 16.64 5.00 13.72 ^{Hub} W. 126

0 2.9 13.7

S 5 2.0 14.6

S 20 1.8 14.8

N 31 10.5 6.1

N 47 13.1 3.5

10-11-61

STA. W. 128+00; O+00 = N. 6125.32

Sta	+	H.I.	-	Elev
0		16.64	3.4	13.2
54			2.5	14.1
520			2.1	14.5
N32			10.4	6.2
N48			13.7	2.9

STA. W. 129+00; O+00 = N. 6109.47

0		2.1	14.5
515		1.6	15.0
N41		10.9	5.7
N54		13.8	2.8
N			

STA. W. 130+00; O+00 = N. 6085.78

0		2.1	14.5
515		1.4	15.2
N40		10.5	6.1
N53		13.7	2.9
N			

53

STA. W. 131+00; O+00 = N. 6053.95

Sta	+	H.I.	-	Elev
0		16.64	2.1	14.5
53			1.8	14.8
518			1.2	15.7
N38			10.6	6.0
N49			13.8	2.8

STA. W. 132+00; O+00 = N. 6013.36

0		2.9	13.7
55		1.8	14.8
520		1.2	15.4
N36		10.6	6.0
N49		14.0	2.6

STA. W. 133+00; O+00 = N. 5963.14

0		3.7	12.9
55		2.6	14.0
520		1.8	14.8
N32		10.6	6.0
N44		13.8	2.8

10-11-61

STA. W. 134+00: O+100 = N. 5,902

Sta	+ H.I.	-	Elev
0	16.64	3.0	13.6
52		2.4	14.2
517		2.0	14.6
N36		10.5	6.1
N50		13.6	3.0

STA. W. 135+00: O+100 = N. 5833.26

Sta	+ H.I.	-	Elev
0	19.13	9.9	9.2
56		5.1	14.0
521		4.4	14.7
N6		12.6	6.5
N33		13.9	5.2
N59		16.3	2.8

NOV. MOOSE

B.M. 1.01 18.12 ~18.10

STA. W. 134+95: O+100 = N. 5836.8

0		3.9	12.7
56		2.8	13.8
521		2.0	14.6
N31		10.7	5.9
N57		13.7	2.9

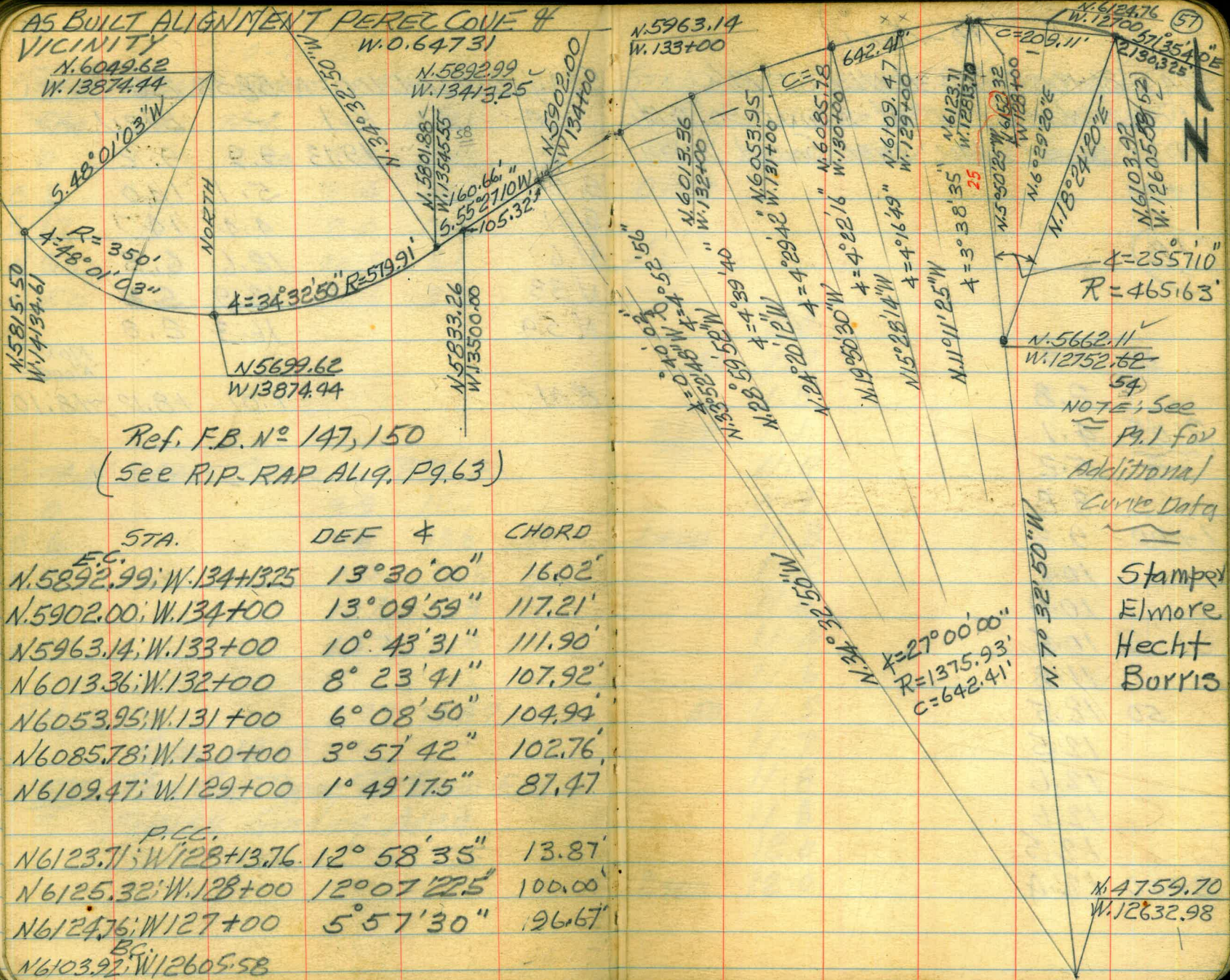
TP, 2.77 13.87

5.26 19.13

NOTE: This Sec Taken To Show End of Finish Grading Area

AS BUILT ALIGNMENT PEREC COVE #

VICINITY
N. 6049.62
W. 13874.44



Ref. F.B. No 147, 150
(See R.I.P. RAP ALI9, P9.63)

STA.	DEF Δ	CHORD
EC. N. 5892.99; W. 134+1325	13° 30' 00"	16.02'
N. 5902.00; W. 134+00	13° 09' 59"	117.21'
N. 5963.14; W. 133+00	10° 43' 31"	111.90'
N. 6013.36; W. 132+00	8° 23' 41"	107.92'
N. 6053.95; W. 131+00	6° 08' 50"	104.94'
N. 6085.78; W. 130+00	3° 57' 42"	102.76'
N. 6109.47; W. 129+00	1° 49' 17.5"	87.47'
P.C.C. N. 6123.71; W. 128+13.76	12° 58' 35"	13.81'
N. 6125.32; W. 128+00	12° 07' 22.5"	100.00'
N. 6124.76; W. 127+00	5° 57' 30"	126.67'
BC. N. 6103.92; W. 12605.58		

NOTE: See
Pg. 1 for
Additional
Curve Data

Stamped
Elmore
Hecht
Borris

N. 4759.70
W. 12632.98

10-11-61

STA. W. 86+00; 0+00 = 30' NLY. OF B/L

SOUND N. 2° 02' 20" W SOUND 90° TO B/L

Dist Sound Elev Dist Sound Elev

0+00

(1.8)

50	0.7
	2.8
<u>2:05</u>	4.1
	5.2
	8.8
1400	9.3
	10.1
	10.0
	10.5
	11.8
50	12.5
	12.5
	12.6
	12.6
	12.5
2+00	12.4

STA. W. 87+00; 0+00 = 30' NLY. OF B/L

SOUND N. 3° 10' 52" W ($\alpha = 88^\circ 51' 28''$)

Dist Sound Elev Dist Sound Elev

0+00

(1.7)

	0.0
50	1.7
	1.5
<u>2:10</u>	7.1
	11.0
	11.9
1+00	11.8
	11.2
	11.0
	11.4
	11.6
50	11.5
	11.7
	11.8
	11.8
	12.0
2+00	12.0

(58)

10-11-61

STA. W 88+00; 0+00 = 30' NLY. OF B/L
Dist Sound Elev Dist Sound Elev
SOUND N. 0° 15' 06" E ($\lambda = 87^{\circ} 42' 34''$)

0+00

(1.6)

	0.8
50	2.5
	5.7
<u>2:15</u>	8.8
	8.6
	8.7
1+00	9.3
	10.7
	10.9
	11.0
	11.1
50	10.8
	11.0
	11.0
	11.0
	10.8
2+00	10.7

STA. W 89+00; 0+00 = 30' NLY OF B/L
SOUND N 3° 41' E ($\lambda = 88-51-32$)
Dist Sound Elev Dist Sound Elev

0+00

(1.5)

	1.8
50	6.0
	8.4
<u>2:20</u>	9.2
	10.6
	10.7
1+00	10.4
	10.6
	10.9
	10.8
	10.7
50	10.8
	10.8
	10.6
	10.5
	10.3
2+00	10.3

10-11-61

STA. W. 90+00: 0+00 = 30' NLY. OF B/L

SOUND N. 4° 49' 28" E (Z = 90°)

DIST SOUND ELEV DIST SOUND ELEV

0+00

(1.5)

0.0

3.2

50 7.6

8.2

2:25 8.8

8.8

8.9

1+00 9.8

10.0

10.0

10.2

10.2

50 10.4

10.4

10.2

10.4

10.3

2+00 10.3

STA. W. 91+00: 0+00 = 30' NLY OF B/L

SOUND N. 5° 23' 32" E (489° 25' 56") WLY TO N.E.

DIST SOUND ELEV DIST SOUND ELEV

0+00

(1.4)

0.1

3.2

50 7.6

8.1

2:30 8.2

8.5

8.6

1+00 8.7

9.1

9.7

9.9

9.9

50 10.1

10.1

10.0

10.0

10.0

2+00 10.1

10-11-61

STA. W. 92+00: 0+00 = 30' NLY. OF B/L

SOUND N 5° 06' 37" E (A = 89° 42' 51")

DIST SOUND ELEV DIST SOUND ELEV

0+00

(13)

0.6

5.7

50 7.9

8.1

2:35 8.9

8.6

8.8

1+00 9.4

9.8

10.0

10.0

10.2

50 10.3

10.3

10.0

10.0

10.2

2+00 10.2

(6)

STA. W. 93+00: 0+00 = 30' NLY OF B/L ^{SOUND} 90° TO B/L

DIST SOUND ELEV DIST SOUND ELEV

0+00

(12)

0.0

3.6

50 7.4

8.0

2:40 8.0

8.0

8.4

1+00 8.5

9.1

9.3

9.8

9.9

50 10.0

10.0

10.0

10.0

9.7

2+00 9.8

10-11-61

STA. W. 94+00 DIST = 30' NLY OF B/L 90° TO B/L

SOUND

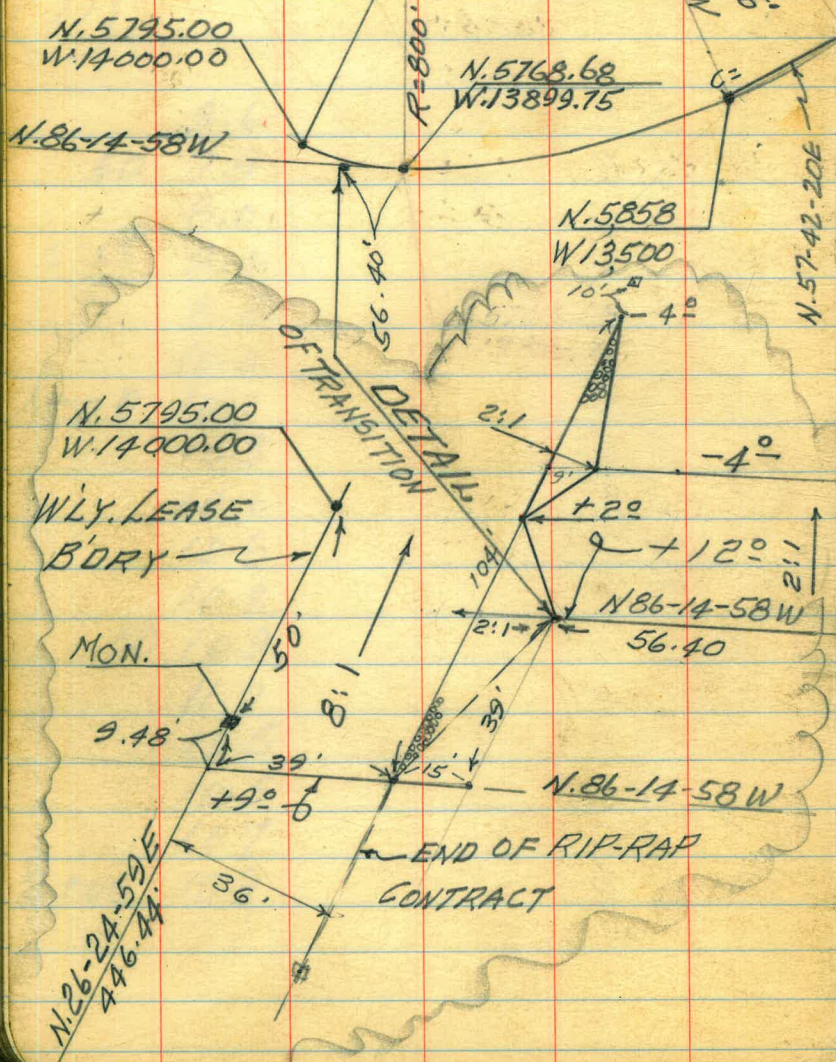
DIST SOUND Elev DIST SOUND Elev

0+00

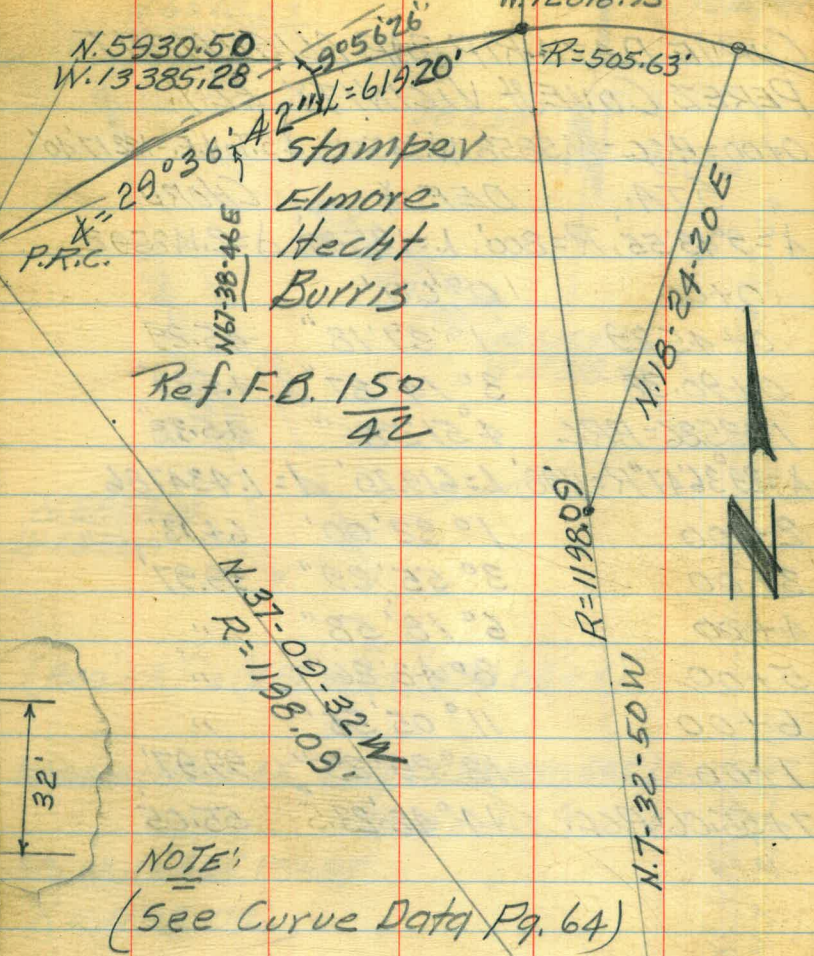
(11)

	3.6
50	7.9
	8.0
2:45	8.4
-	8.8
	10.0
1+00	10.1
	10.3
	10.6
	10.8
	10.8
50	10.9
	11.0
	10.5
	10.5
	10.7
2+00	10.9

RIP-RAP ALIGNMENT
 PEREZ COVE & VIC.
 W.O. 64160



4-10-62 N.6163.36 W.12818.95 (63)



Ref. F.B. 150
 42

NOTE:
 (See Curve Data Pg. 64)

$$\frac{338.41}{1198.09} = .28245791 = 16^{\circ}24'25''W$$

$$\frac{338.41 \cdot 29221390}{1158.09} = N.4975.66 \quad W.12661.59$$

$$= N16^{\circ}59'26''W$$

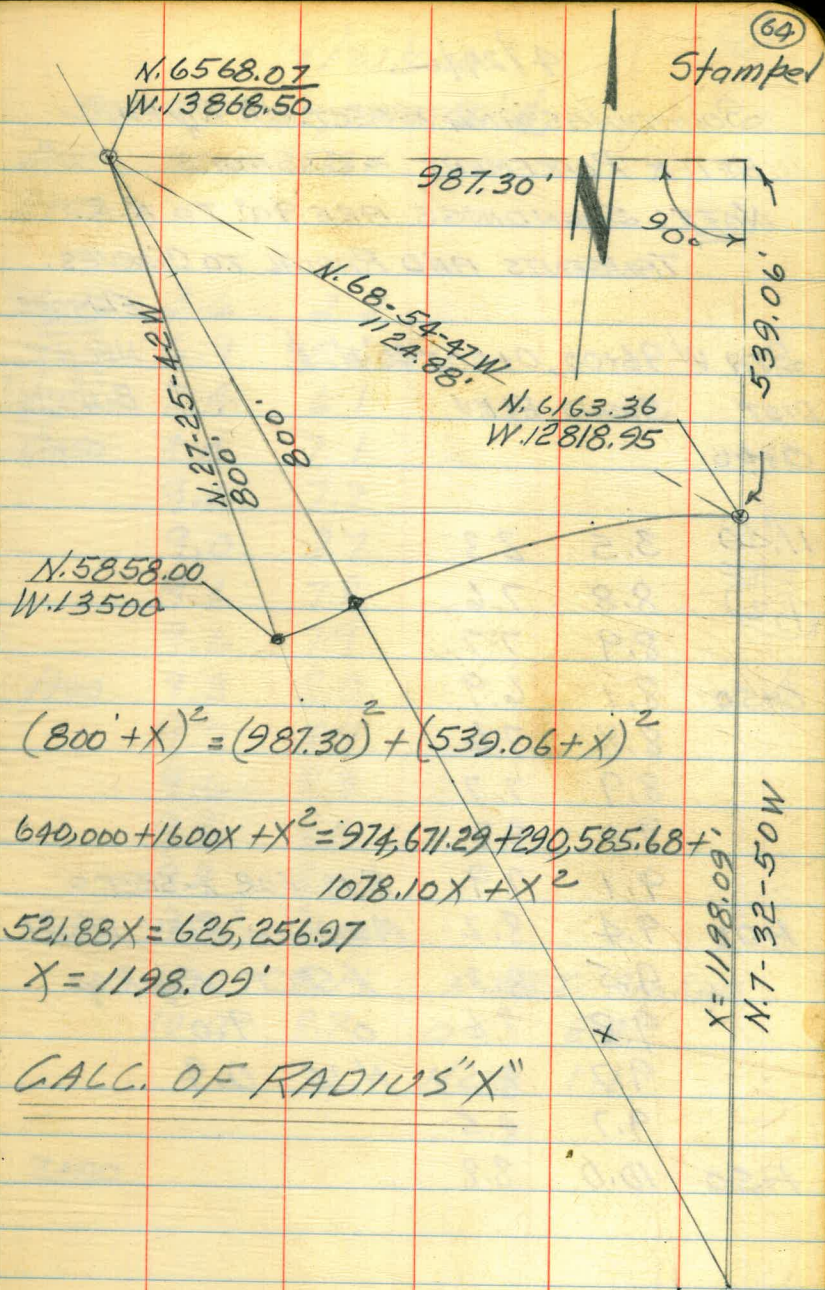
2R = 2316.18

CURVE DATA RIPRAP ALIGNMENT
 PEREZ COVE & VICINITY ELY.

0+00 = P.C.C. = N. 5858; W. 13500; Δ 5. To N.E. = $122^{\circ}17'40''$

STA. DEF Δ CHORD
 $\Delta = 9^{\circ}43'55''$, R = 800', L = 135.88' d = 2.148592

STA.	DEF Δ	CHORD
0+00	0° 00'	
0+45.29	1° 37' 18"	45.29'
0+90.38	3° 14' 37"	45.29'
1+35.86 = P.R.C.	4° 51' 55"	45.28"
$\Delta = 29^{\circ}36'47''$ R = 1198', L = 619.20' d = 1.434786		
2+00	1° 32' 00"	64.13'
3+00	3° 55' 29"	99.97'
4+00	6° 18' 58"	"
5+00	8° 42' 26"	"
6+00	11° 05' 55"	"
7+00	13° 29' 23"	99.97'
7+55.06 = P.C.C.	14° 48' 21"	55.05'



$$(800' + X)^2 = (987.30)^2 + (539.06 + X)^2$$

$$640,000 + 1600X + X^2 = 974,671.29 + 290,585.68 + 1078.10X + X^2$$

$$521.88X = 625,256.97$$

$$X = 1198.09'$$

CALC. OF RADIUS "X"

4/27/62

SOUNDINGS AND X-SECT OF RIP RAP
AFTER PLACEMENT ~ S. SHORE.

NOTE: SOUNDINGS ARE 90° TO R.R.

TANGENTS AND RADIAL TO CURVES.

STA W 96+00, 0+00=40' N. ~~6~~

DIST SOUND ELEV
0+00

11:40 3.5 2.3

(1.2) 8.8 7.6

8.9 7.7

0+50 8.1 6.9

8.8 7.6

8.9 7.7

9.0 7.8

9.1 7.9

1+00 9.4 8.2

9.5 8.3

9.8 8.6

9.7 8.5

9.7 8.5

1+50 10.0 8.8

B.M. FOR X-SECT =

MONU "Jim" ELEV 15.31

X-SECT. RIP RAP

0 9.0

N. 15 0.9

4/27/62

(65)

STA W 97+00, 0+00=40' ~~6~~

DIST SOUND ELEV

0+00

11:45 3.6 2.3

HECHT 6.9 5.6

(1.3) 7.4 6.1

0+50 8.4 7.1

9.0 7.7

9.0 7.7

9.1 7.8

9.2 7.9

1+00 9.3 8.0

9.7 8.4

9.6 8.3

9.6 8.3

9.8 8.5

1+50 9.8 8.5

10.0 8.7

10.0 8.7

X-SECT. RIP RAP

0 8.8

N. 14 1.1

2+00

4/27/62

STA W 98400, 0+00 = 40' N. ~~4~~

DIST	SOUND	ELEV
0+00		

11:50	2.1	0.8
-------	-----	-----

	5.2	3.9
--	-----	-----

(1.3)	6.5	5.2
-------	-----	-----

0+50	8.5	7.2
------	-----	-----

	8.9	7.6
--	-----	-----

	9.0	7.7
--	-----	-----

	9.0	7.7
--	-----	-----

	9.5	8.2
--	-----	-----

1+00	9.8	8.5
------	-----	-----

	9.8	8.5
--	-----	-----

	9.8	8.5
--	-----	-----

	9.7	8.4
--	-----	-----

	9.9	8.6
--	-----	-----

1+50	9.7	8.4
------	-----	-----

X-SECT RipRAP

0 9.1

N.15 1.6

2+00

4/27/62

(66)

STA W 99400, 0+00 = 40' N. ~~4~~

DIST	SOUND	ELEV
0+00		

11:55	3.0	1.6
-------	-----	-----

	6.9	5.5
--	-----	-----

(1.4)	7.2	5.8
-------	-----	-----

0+50	8.2	6.8
------	-----	-----

	8.9	7.5
--	-----	-----

	9.0	7.6
--	-----	-----

	9.2	7.8
--	-----	-----

	9.1	7.7
--	-----	-----

1+00	9.1	7.7
------	-----	-----

	9.2	7.8
--	-----	-----

	9.4	8.0
--	-----	-----

	9.5	8.1
--	-----	-----

	9.6	8.2
--	-----	-----

1+50	9.8	8.4
------	-----	-----

X-SECT RipRAP

0 8.7

S. 2 9.4

N. 14 2.1

2+00

4/27/62

STA W100+00, 0+00 = 40' N. ~~Q~~

DIST SOUND ELEV

0+00

	1.7	0.3
12:00	5.5	4.1
7A	5.8	4.4
0+50	8.0	6.6
	9.1	7.7
	9.4	8.0
	9.7	8.3
	9.4	8.0
1+00	9.4	8.0
	9.4	8.0
	9.8	8.4
	9.9	8.5
	9.9	8.5
1+50	10.1	8.7

X-SECT. Rip RAP

0	8.7
S. 1	9.4
N. 14	2.2

2+00

4/27/62

(67)

STA W101+00, 0+00 = 40' N. ~~Q~~

DIST SOUND ELEV

0+00

	2.9	0.9
12:05	5.3	3.8
1.5	6.1	4.6
0+50	7.7	6.2
	8.4	6.9
	8.6	7.1
	8.7	7.2
	8.8	7.3
1+00	9.0	7.5
	9.1	7.6
	9.3	7.8
	9.1	7.6
	9.1	7.6
1+50	9.4	7.9

X-SECT Rip RAP

0	8.4
S. 1	8.8
N. 15	2.2

2+00

4/27/62

STA W 102+00, 0+00 = 40' N. Ⓢ

DIST SOUND ELEV

0+00

2.3 0.8

12:10 6.4 4.9

1.5 6.0 4.5

0+50 7.8 6.3

8.5 7.0

8.7 7.2

8.8 7.3

8.9 7.4

1+00 8.9 7.4

9.3 7.8

9.2 7.7

9.3 7.8

9.3 7.8

1+50 9.6 8.1

X-SECT RipRAP

0 8.6

N. 16 1.8

2+00

5/18/62

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STA W 103+00, 0+00 = 40' N. Ⓢ (RADIAL)

DIST SOUND ELEV DIST SOUND ELEV

0+00

9.0 7.0

9.0 7.0

2:05 1.0 11.0 9.0 7.02.0 5.1 3.1 9.0 7.0

6.7 4.7 1+50 9.0 7.0

0+50 8.3 6.3 X-SECT

8.9 6.9 0 8.8

9.0 7.0 16 N 1.9

9.0 7.0

9.0 7.0

1+00 9.0 7.0

STA W 103+50 0+00 40' N. Ⓢ (RAD)

DIST SOUND ELEV DIST SOUND ELEV

0+00

9.1 7.1

9.3 7.3

2:00 2.9 0.9 9.5 7.52.0 5.4 3.4 9.6 7.6

7.1 5.1 1+50 9.8 7.8

0+50 8.4 6.4 X-SECT

9.0 7.0 0 8.4

9.0 7.0 16 N 1.7

9.0 7.0

9.0 7.0

1+00 9.0 7.0

5/18/62

STA W104+00, 0+00=40' N. $\frac{1}{2}$ (RADIAL)

DIST	SOUND	ELEV		
0+00			9.1	7.1
			9.2	7.2
<u>2:00</u>	2.5	0.5	9.5	7.5
(2.0)	6.0	4.0	9.7	7.7
	6.4	4.4	1+50 9.8	7.8
0+50	8.0	6.0	X-SECT	
	8.1	6.1	0	8.3
	9.0	7.0	15 N.	1.7
	9.1	7.1		
	9.1	7.1		
1+00	9.1	7.1		

STA W104+50 0+00=40' N. $\frac{1}{2}$

DIST	SOUND	ELEV		
0+00			9.5	7.4
			9.5	7.4
1:45	1.3	+0.8	9.8	7.7
(2.1)	5.6	3.5	10.2	8.1
	6.6	4.5	1+50 10.2	8.1
0+50	7.5	5.4	X-SECT	
	7.7	5.6	0	8.6
	8.7	6.6	17 N.	2.0
	9.4	7.3		
	9.3	7.2		
1+00	9.4	7.3		

5/18/62

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STA W105+00, 0+00=40' N. $\frac{1}{2}$ (RADIAL)

DIST	SOUND	ELEV		
0+00			9.5	7.3
			9.5	7.3
1:40	1.6	+0.6	9.6	7.4
(2.2)	5.8	3.6	9.6	7.4
	7.4	5.2	1+50 9.6	7.4
0+50	7.7	5.5	X-SECT	
	8.8	6.6	0	8.9
	9.2	7.0	17 N.	1.7
	9.3	7.1		
	9.5	7.3		
1+00	9.4	7.2		

STA W105+50 0+00=40' N. $\frac{1}{2}$

DIST	SOUND	ELEV		
0+00			9.5	7.3
			9.5	7.3
1:35	1.2	+1.0	9.5	7.3
(2.2)	6.1	3.9	9.5	7.3
	6.7	4.5	1+50 10.1	7.9
0+50	8.8	6.6	X-SECT	
	9.1	6.9	0	8.7
	9.2	7.0	18 N.	1.5
	9.3	7.1		
	9.3	7.1		
1+00	9.3	7.1		

5/18/62

STA W 106+00, 0+00=40' N. ~~4~~

DIST	SOUND	ELEV			
0+00			9.6	7.1	
			9.8	7.6	
1:30	2.8	0.6	9.9	7.7	
(2.2)	5.9	3.7	9.9	7.7	
	7.4	5.2	1+50	9.9	7.7
0+50	9.0	6.8	X-SECT		
	9.0	6.8	0	9.0	
	9.1	6.9	12 N.	1.7	
	9.1	6.9			
	9.3	7.1			
1+00	9.3	7.1			

STAW 106+50 0+00=40' N. ~~4~~

DIST	SOUND	ELEV			
0+00			9.7	7.5	
			9.8	7.6	
1:30	4.1	1.9	9.9	7.7	
(2.2)	7.8	5.6	X-SECT	10.0	7.8
	8.8	6.6	1+50	10.0	7.8
0+50	9.1	6.9	X-SECT		
	9.3	7.1	0	8.5	
	9.3	7.1	1 S.	9.1	
	9.5	7.3	15 N.	1.6	
	9.5	7.3			
1+00	9.7	7.5			

5/18/62

STA W 107+00, 0+00=40' N. ~~4~~

(70)

DIST	SOUND	ELEV			
0+00			9.9	7.6	
			10.0	7.7	
1:25	3.2	0.9	10.0	7.7	
(2.3)	7.0	3.7	10.0	7.7	
	9.1	6.8	1+50	10.0	7.7
0+50	9.5	7.2	X-SECT		
	9.7	7.4	0	8.6	
	9.8	7.5	1 S.	9.1	
	9.8	7.5	15 N.	1.7	
	9.8	7.5			
1+00	9.9	7.6			

STAW 107+50 0+00=40' N. ~~4~~

DIST	SOUND	ELEV			
0+00			9.8	7.4	
			10.0	7.6	
1:20	1.8	4.0.6	10.0	7.6	
(2.4)	6.5	4.1	10.0	7.6	
	8.1	5.7	1+50	10.1	7.7
0+50	9.0	6.6	X-SECT		
	9.3	6.9	0	9.4	
	9.3	6.9	16 N.	1.7	
	9.3	6.9			
	9.3	6.9			
1+00	10.0	7.6			

5/18/62

STATION 108+00 0+00=40' N. Ⓢ

DIST	SOUND	ELEV			
0+00			9.8	7.4	
			9.9	7.5	
1:15	3.0	0.6	10.0	7.6	
(2.4)	7.0	4.6	10.0	7.6	
	7.7	5.3	1+50	10.0	7.6
0+50	8.7	6.3	X-SECT		
	9.2	6.8	0	8.9	
	9.6	7.2	16 N.	1.5	
	9.8	7.4			
	9.8	7.4			
1+00	9.8	7.4			

STATION 108+50 0+00=40' N. Ⓢ

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00				10.2	7.7
				10.3	7.8
1:10	2.8	0.3		10.3	7.8
(2.5)	6.1	3.6		10.4	7.9
	6.5	4.0	1+50	10.4	7.9
0+50	8.5	6.0	X-SECT		
	9.2	6.7	0	9.0	
	9.6	7.1	16 N.	2.0	
	9.9	7.4			
	10.0	7.5			
1+00	10.0	7.5			

5/18/62

⑩

STATION 109+00 0+00=40' N. Ⓢ

DIST	SOUND	ELEV			
0+00			9.9	7.4	
			10.0	7.5	
1:10	1.7	+0.8	10.0	7.5	
(2.5)	5.0	2.5	10.1	7.6	
	7.0	4.5	1+50	10.1	7.6
0+50	7.9	5.4	X-SECT		
	8.6	6.1	0	9.1	
	9.0	6.5	18 N.	1.5	
	9.4	6.9			
	9.6	7.1			
1+00	9.9	7.4			

STATION 109+50 0+00=40' N. Ⓢ

DIST	SOUND	ELEV			
0+00				11.5	7.6
				11.7	7.8
11:15	3.4	+0.5		11.5	7.6
(3.9)	7.4	3.5		11.4	7.5
	9.2	5.3	1+50	11.2	7.3
0+50	10.0	6.1	X-SECT		
	10.5	6.6	0	8.6	
	10.7	6.8	2 S.	9.5	
	11.0	7.1	17 N.	1.5	
	11.2	7.3			
1+00	11.4	7.5			

8.94=TP
5/18/62

STA W/110+00, 0+00=40' N. ϕ

DIST	SOUND	ELEV			
0+00			11.4	7.5	
			11.4	7.5	
11:10	3.7	+0.2	11.2	7.3	
(3.9)	9.0	5.1	11.3	7.4	
	10.0	6.1	1+50 11.3	7.4	
0+50	10.2	6.3	X-SECT		
	10.8	6.9	0	8.8	
	11.0	7.1	1 S.	9.8	
	11.0	7.1	16 N.	1.5	
	11.2	7.3			
1+00	11.2	7.3			

STA W/110+50 0+00=40' N. ϕ

DIST	SOUND	ELEV			
0+00			11.0	7.0	
			11.1	7.1	
11:05	3.8	+0.2	11.1	7.1	
(4.0)	8.0	4.0	11.0	7.0	
	8.4	4.4	1+50 11.1	7.1	
0+50	9.7	5.7	X-SECT		
	10.3	6.3	0	8.7	
	10.7	6.7	1 S.	9.6	
	10.7	6.7	16 N.	1.5	
	10.9	6.9			
1+00	10.9	6.9			

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(72)

STA W/11+00, 0+00=40' N. ϕ

DIST	SOUND	ELEV			
0+00			10.8	6.8	
			10.9	6.9	
11:05	4.5	0.5	10.9	6.9	
(4.0)	7.3	3.3	11.0	7.0	
	8.5	4.5	1+50 11.0	7.0	
0+50	8.9	4.9	X-SECT		
	9.3	5.3	0	9.2	
	10.1	6.1	16 N.	1.6	
	10.4	6.4			
	10.7	6.7			
1+00	10.9	6.9			

STA W/11+50 0+00=40' N. ϕ

DIST	SOUND	ELEV			
0+00			10.9	6.9	
			11.0	7.0	
11:00	4.2	0.2	11.0	7.0	
(4.0)	7.8	3.8	11.2	7.2	
	8.8	4.8	1+50 11.4	7.4	
0+50	8.9	4.9	X-SECT		
	9.0	5.0	0	9.1	
	9.9	5.9	17 N.	1.6	
	10.7	6.7			
	10.6	6.6			
1+00	10.9	6.9			

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STA W112+00, 0+00=40' N. 1/2

DIST	SOUND	ELEV			
0+00			11.3	7.2	
			11.1	7.0	
10:55	3.8	+0.3	11.4	7.3	
<u>4.1</u>	7.2	3.1	11.4	7.3	
	9.2	5.1	1450 11.3	7.2	
0+50	10.2	6.1	X-SECT		
	10.4	6.3	0	9.1	
	10.9	6.8	2 N.	8.5	
	11.0	6.9	18 N.	1.7	
	11.1	7.0			
1+00	11.1	7.0			

STA W112+50, 0+00=40' N. 1/2

DIST	SOUND	ELEV			
0+00			12.1	7.8	
			12.2	7.9	
9:20	4.1	+0.2	12.2	7.9	
<u>4.3</u>	7.8	3.5	12.2	7.9	
	9.0	4.7	1450 12.2	7.9	
0+50	10.3	6.0	X-SECT		
	11.2	6.9	0	8.7	
	11.6	7.3	3 N.	8.3	
	11.8	7.5	18 N.	1.7	
	11.9	7.6			
1+00	12.0	7.7			

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STA W113+00, 0+00=40' N. 1/2

DIST	SOUND	ELEV			
0+00			12.0	7.7	
			12.1	7.8	
9:25	4.0	+0.3	12.1	7.8	
<u>4.3</u>	8.4	4.1	12.1	7.8	
	9.5	5.2	1450 12.2	7.9	
0+50	10.7	6.4	X-SECT		
	11.2	6.9	0	9.0	
	11.6	7.3	17 N.	1.5	
	11.8	7.5			
	12.0	7.7			
1+00	12.0	7.7			

STA W113+50, 0+00=40' N. 1/2

DIST	SOUND	ELEV			
0+00			12.3	7.9	
			12.4	8.0	
9:30	3.3	+1.1	12.6	8.2	
<u>4.4</u>	6.1	1.7	12.5	8.1	
	6.3	1.9	1450 12.5	8.1	
0+50	9.2	4.8	X-SECT		
	10.6	6.2	0	9.3	
	11.3	6.9	18 N.	1.7	
	11.6	7.2			
	12.1	7.7			
1+00	12.3	7.9			

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STA W/114+00 0+00=40' N. ♂

DIST	SOUND	ELEV			
0+00			12.4	8.0	
			12.4	8.0	
9:35	3.4	+1.0	12.4	8.0	
<u>4.4</u>	7.7	3.3	12.4	8.0	
	9.3	4.9	1+50	12.5	8.1
0+50	11.1	6.7	X-SECT		
	11.5	7.1	0	9.5	
	12.0	7.6	18 N.	1.6	
	12.1	7.7			
	12.2	7.8			
1+00	12.4	8.0			

STA W/114+50 0+00=40' N. ♂

DIST	SOUND	ELEV			
0+00			12.5	8.1	
			12.6	8.2	
9:40	3.5	+0.9	12.6	8.2	
<u>4.4</u>	7.9	3.5	12.5	8.1	
	8.6	4.2	1+50	12.5	8.1
0+50	10.4	6.0	X-SECT		
	11.3	6.9	0	9.2	
	11.7	7.3	2 N.	9.0	
	12.0	7.6	19 N.	1.6	
	12.2	7.8			
1+00	12.5	8.1			

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STA W/115+00 0+00=40' N. ♂

DIST	SOUND	ELEV			
0+00			12.3	7.9	
			12.5	8.1	
9:40	3.2	+1.2	12.5	8.1	
<u>4.4</u>	7.4	3.0	12.6	8.2	
	8.2	3.8	1+50	12.8	8.4
0+50	10.6	6.2	X-SECT		
	11.1	6.7	0	9.4	
	11.6	7.2	2 N.	9.1	
	12.0	7.6	18 N.	1.6	
	12.3	7.9			
1+00	12.3	7.9			

STA W/115+50 0+00=40' N. ♂

948 TP

DIST	SOUND	ELEV			
0+00			12.5	8.1	
			12.5	8.1	
9:45	4.0	+0.4	12.7	8.3	
<u>4.4</u>	7.9	3.5	12.8	8.4	
	8.9	4.5	1+50	13.0	8.6
0+50	10.7	6.3	X-SECT		
	11.4	7.0	0	9.4	
	12.1	7.7	2 N.	9.1	
	12.0	7.6	17 N.	1.6	
	12.2	7.8			
1+00	12.4	8.0			

5/18/62

STA W 116+00 0+00=40' N. ~~Q~~

DIST SOUND ELEV

0+00			13.6	9.2
			13.8	9.4
9:50	4.1	10.3	13.9	9.5
(4.4)	9.2	4.8	13.8	9.4
	10.3	5.9	1+50 13.8	9.4
0+50	12.0	7.6	X-SECT	
	13.0	8.6	0	9.2
	13.1	8.7	17 N.	2.6
	13.3	8.9		
	13.3	8.9		
1400	13.5	9.1		

STA W. 116+50 0+00=40' N. ~~Q~~

DIST SOUND ELEV

0+00			13.3	8.9
			13.5	9.1
9:50	5.0	0.6	13.5	9.1
(4.4)	10.8	6.4	13.7	9.3
	12.3	7.9	1+50 13.9	9.5
0+50	12.7	8.3	X-SECT	
	13.0	8.6	0	9.2
	13.1	8.7	15 N.	2.3
	13.1	8.7		
	13.1	8.7		
1400	13.2	8.8		

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STA W 117+00 0+00=40' N. ~~Q~~

DIST SOUND ELEV

0+00			13.1	8.7
			13.1	8.7
9:55	5.1	0.7	13.2	8.8
(4.4)	9.0	4.6	13.2	8.8
	10.4	6.0	1+50 13.5	9.1
0+50	11.1	6.7	X-SECT	
	11.8	7.4	0	9.4
	12.5	8.1	14 N.	2.4
	12.9	8.5		
	13.0	8.6		
1400	13.0	8.6		

STA W 117+50 0+00=40' N. ~~Q~~

DIST SOUND ELEV

0+00			12.0	7.6
			12.2	7.8
10:00	6.0	1.6	12.3	7.9
(4.4)	8.2	3.8	12.4	8.0
	9.7	5.3	1+50 12.8	8.4
0+50	10.4	6.0	X-SECT	
	10.8	6.4	0	9.3
	11.2	6.8	15 N.	2.5
	11.7	7.3		
	11.9	7.5		
1400	12.0	7.6		

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STA W118+00 0+00=40' N. ϕ

DIST	SOUND	ELEV			
0+00			12.4	8.0	
			12.4	8.0	
10:00	4.2	+0.2	12.8	8.4	
<u>4.4</u>	8.2	3.8	12.9	8.5	
	8.5	4.1	1+50 13.0	8.6	
0+50	10.3	5.9	X-SECT		
	11.1	6.7	0	9.2	
	11.8	7.4	16 N.	2.6	
	12.2	7.8			
	12.2	7.8			
1+00	12.4	8.0			

STA W. 118+50 0+00=40' N. ϕ

DIST	SOUND	ELEV			
0+00			12.9	8.6	
			13.0	8.7	
10:05	4.4	0.1	13.0	8.7	
<u>4.3</u>	8.5	4.2	13.0	8.7	
	8.1	3.8	1+50 13.0	8.7	
0+50	10.8	6.5	X-SECT		
	11.8	7.5	0	9.0	
	12.1	7.8	3 N.	8.7	
	12.3	8.0	15 N.	2.4	
	12.6	8.3			
1+00	12.8	8.5			

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STA W119+00 0+00=40' N. ϕ

⑦

DIST	SOUND	ELEV			
0+00			13.4	9.1	
			13.3	9.0	
10:10	3.4	+0.9	13.3	9.0	
<u>4.3</u>	6.4	2.1	13.2	8.9	
	9.2	4.9	1+50 13.3	9.0	
0+50	11.3	7.0	X-SECT		
	12.2	7.9	0	9.0	
	12.8	8.5	16 N.	2.4	
	13.0	8.7			
	13.2	8.9			
1+00	13.2	8.9			

STA W. 119+50 0+00=40' N. ϕ

DIST	SOUND	ELEV			
0+00			14.6	10.3	
			14.4	10.1	
10:15	2.8	+1.5	14.4	10.1	
<u>4.3</u>	6.1	1.8	14.4	10.1	
	8.3	4.0	1+50 14.4	10.1	
0+50	11.3	7.0	X-SECT		
	12.5	8.2	0	9.7	DIRT
	13.0	8.7	3 N.	9.4	
	13.4	9.1	17 N.	2.5	
	13.7	9.4			
1+00	14.0	9.7			

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STATION 120+00 0+00 = 40' N. ϕ
 DIST SOUND ELEV

0+00			13.6	9.3	
			13.6	9.3	
10:15	3.3	+1.0	13.6	9.3	
(4.3)	5.5	1.1	13.5	9.2	
	7.8	3.5	1+50 13.3	9.0	
0+50	10.5	6.2	X-SECT		
	12.0	7.7	0	9.5	(DIRT)
	12.5	8.2	4 N.	9.2	
	12.8	8.5	17 N.	2.4	
	13.0	8.7			
1+00	13.1	8.8			

STATION 120+50 0+00 = 40' N. ϕ
 DIST SOUND ELEV

0+00			13.2	8.9	
			13.3	9.0	
10:20	2.7	+1.6	13.3	9.0	
	6.1	1.8	13.0	8.7	
(4.3)	8.7	4.4	1+50 12.7	8.4	
0+50	11.9	7.6	X-SECT		
	12.5	8.2	0	9.4	DIRT
	12.8	8.5	6 N.	8.8	
	12.9	8.6	18 N.	2.3	
	13.1	8.8			
1+00	13.1	8.8			

(9.25⁰)

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STATION 121+00 0+00 = 40' N. ϕ
 DIST SOUND ELEV

0+00			12.5	8.2	
			12.5	8.2	
10:25	2.4	+1.9	12.4	8.1	
(4.3)	6.3	2.0	12.4	8.1	
	9.1	4.8	1+50 12.4	8.1	
0+50	11.4	7.1	X-SECT		
	12.3	8.0	0	8.9	DIRT
	12.4	8.0	7 N.	8.6	
	12.7	8.4	19 N.	2.6	
	12.7	8.4			
1+00	12.5	8.2			

STATION 121+50 0+00 = 40' N. ϕ
 DIST SOUND ELEV

0+00			12.5	8.3	
			12.6	8.4	
10:30	2.4	+1.8	12.6	8.4	
(4.2)	5.2	1.0	12.7	8.5	
	7.7	3.5	1+50 12.7	8.5	
0+50	10.5	6.3	X-SECT		
	11.4	7.2	0	9.4	DIRT
	12.0	7.8	8 N.	8.9	
	12.3	8.1	20 N.	2.4	
	12.2	8.0			
1+00	12.3	8.1			

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STATION 122+00 0+00=40' N. ϕ

DIST	SOUND	ELEV			
0+00			12.3	8.1	
			12.5	8.3	
<u>10:30</u>	0.6	+3.6	12.5	8.3	
(4.2)	5.3	1.1	12.5	8.3	
	8.0	3.8	1+50	12.5	8.3
0+50	10.7	6.5	X-SECT		
	11.3	7.1	0	9.7	DIRT
	11.9	7.7	9 N.	9.0	
	12.1	7.9	22 N.	2.4	
	12.2	8.0			
1+00	12.2	8.0			

STATION 122+50 0+00=40' N. ϕ

DIST	SOUND	ELEV			
0+00			12.2	8.0	
			12.4	8.2	
<u>10:35</u>	0.0	+4.2	12.7	8.5	
(4.2)	4.8	0.6	13.3	9.1	
	6.9	2.7	1+50	13.8	9.6
0+50	7.4	3.2	X-SECT		
	9.5	5.3	0	9.4	DIRT
	11.0	6.8	10 N.	8.5	
	11.4	7.2	23 N.	2.6	
	12.1	7.9			
1+00	12.0	7.8			

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(78)

STATION 123+00, 0+00=40' N. ϕ

DIST	SOUND	ELEV			
0+00			14.1	9.9	
			14.1	9.9	
<u>10:40</u>			14.1	9.9	
(4.2)	4.1	+0.1	14.1	9.9	
	7.1	2.9	1+50	14.1	9.9
0+50	8.0	3.8	X-SECT		
	10.9	6.7	0	8.9	DIRT
	12.4	8.2	13 N.	8.5	
	13.6	9.4	25 N.	2.7	
	14.0	9.8			
1+00	14.1	9.9			

STATION 123+50 0+00=40' N. ϕ

DIST	SOUND	ELEV			
0+00			12.7	8.5	
			12.5	8.3	
<u>10:45</u>			12.4	8.2	
(4.2)	8.5	+0.7	12.4	8.2	
	5.9	1.7	1+50	12.3	8.1
0+50	8.8	4.6	X-SECT		
	10.5	6.3	0	9.2	DIRT
	12.5	8.3	12 N.	8.7	
	13.1	8.9	25 N.	2.6	
	13.4	9.2			
1+00	13.1	8.9			

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STAW 12400 0400 = 40' N

DIST	SOUND	ELEV			
0400			12.0	7.8	
			12.0	7.8	
10:45			12.1	7.9	
(4.2)	3.4	+0.8	12.1	7.9	
	6.6	2.9	1450	12.1	7.9
0450	9.8	5.6	X-SECT		
	10.6	6.4	0	9.6	DIRT
	11.2	7.0	12 N.	8.9	
	11.7	7.5	25 N.	2.5	
	11.7	7.5			
1400	11.8	7.6			

STAW 12450 0400 = 40' N

DIST	SOUND	ELEV			
0400			11.8	7.7	
			11.7	7.6	
10:50			11.7	7.6	
(4.1)	3.6	+0.5	11.8	7.7	
	5.4	1.3	1450	11.7	7.6
0450	9.1	5.0	X-SECT		
	10.5	6.4	0	9.6	DIRT
	11.2	7.1	13 N.	9.1	
	11.3	7.2	25 N.	3.2	
	11.3	7.2			
1400	11.5	7.4	(CONT FB156/52)		

IMPROVED TABLES AND INFORMATION

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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

8.92 TP



200 - Pipes 2"
200 - " 1"