

MISSION BAY

#6

No. 10 F

# EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and  
SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning  
Roadway 16 feet wide Side Slopes 1 on 1.  
For Single Back Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be  $30.6 + (20 - 16) \div 2$  or 2 ft. added to  $30.6 = 32.6$ . For slopes of 1 on  $1\frac{1}{2}$  see inside of back cover.

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Book No. 6

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THE  
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ENGINEERING CENTER  
FORT BELLEVILLE, ILL.

ORIGINAL X-SECTIONS  
OF TERRA DEL FUEGO  
PROJECT NO. 6

28  
56  
84  
112

ORIGINAL X-SECTIONS PROJ'S  
NO. 6

PAGE	STATIONS	DATE
1	105+00	EAST 10-5-46
3	104+00	EAST 10-5-46
6	105+00	WEST 10-5-46
7	104+00	WEST 10-5-46
8	103+00	EAST 10-5-46
11	103+00	WEST 10-5-46
12	102+00	EAST 10-5-46
14	102+00	WEST 10-5-46
15	101+00	EAST 10-5-46
18	101+00	WEST 10-5-46
18	72+00	EAST 10-6-46
21	72+00	WEST 10-6-46
21	75+00	EAST 10-6-46
24	75+00	WEST 10-6-46
25	74+00	EAST 10-6-46
28	74+00	WEST 10-6-46
28	73+00	EAST 10-6-46
31	73+00	WEST 10-6-46
32	77+00	EAST 10-6-46

PAGE	STATION	DATE
33	77+00 West	10-6-46
33	84+00 EAST	10-6-46
33 <del>33</del> 37	85+00 EAST	10-6-46
38-39	ORIGINAL X-SECTIONS STAS. 90-95	
40-48	X-SECTIONS R 92+90 & R 100	10-6-46
49	CHECK SOUNDINGS OF SIDE SLOPES PROJ. #6	11-15-46
50	TOPOGRAPHIC FEATURES SANTA CLARA PT	7-16-47
51-53	SOUNDINGS AFTER SHOAL REMOVAL PROJ #8	9-26-47
	RECORD OF DIRT SURFACING ON	2 OCT 47
54-59	PROV. 6 & 7 BY J. HANSEN CONSTRUCTION CO.	TO 21 OCT 47
	RECORD OF DIRT SURFACING ON	12-8-47
60-65	PROV 6 & 7 BY HANSEN CONST. CO.	12-15-47

Inland

10/5/96  
STA. 105+00

0+00 = RANGE		100+00 -		SOUND EAST	
Dist	SOUND	Dist	SOUND		
0+00	2.3 +2.2		2.8 +1.7		
	2.4 +2.1		2.7 +1.8		
	2.4 +2.1		2.8 +1.7		
	2.4 +2.1	2+00	2.8 +1.7		
	2.5 +2.0		2.8 +1.7		
50	2.4 +2.1	(45)	2.8 +1.7		
839	2.9 +2.1	890	2.9 +1.6		
(9.5)	2.4 +2.1		2.9 +1.6		
	2.5 +2.0	50	2.8 +1.7		
	2.6 +1.9		2.8 +1.7		
1+00	2.6 +1.9		2.8 +1.7		
	2.6 +1.9		2.8 +1.7		
	2.6 +1.9		2.8 +1.7		
	2.6 +1.9	3+00	2.8 +1.7		
	2.6 +1.9		2.7 +1.8		
50	2.7 +1.8		2.7 +1.8		
	2.7 +1.8		2.7 +1.8		

STA. 105+00

①

D	S	D	S
	2.6 +1.9		2.3 +2.2
50	2.6 +1.9		2.3 +2.2
	2.7 +1.8		2.2 +2.2
	2.6 +1.9	50	2.2 +2.2
	2.6 +1.9		2.4 +2.1
	2.7 +1.8		2.7 +1.8
4+00	2.6 +1.9		2.7 +1.8
(45)	2.6 +1.9		2.7 +1.8
	2.6 +1.9	6+00	2.7 +1.8
842	2.6 +1.9	843	2.9 +1.6
	2.6 +1.9	(45)	3.1 +1.4
50	2.5 +2.0		3.2 +1.3
	2.5 +2.0		3.2 +1.3
	2.6 +1.9	50	2.4 +2.1
	2.5 +2.0		2.3 +2.2
	2.4 +2.1		2.2 +2.3
5+00	2.4 +2.1		2.2 +2.3
	2.3 +2.2		2.1 +2.4

		STA. 105+00			
D	S	D	S		
7+00	2.1	+2.3		3.8	+0.6
	2.1	+2.3		3.7	+0.7
	2.1	+2.3	9+00	3.6	+0.8
	2.1	+2.3		3.3	+1.1
50	2.2	+2.2		3.2	+1.2
50	2.3	+2.1		3.0	+1.4
(44)	2.3	+2.1		3.1	+1.3
845	2.5	+1.9	50	3.1	+1.3
	2.5	+1.9	847	3.0	+1.4
	2.4	+2.0	(44)	3.0	+1.4
8+00	2.4	+2.0		3.0	+1.4
	2.8	+1.6		3.0	⋮
	2.8	+1.6	10+00	3.0	⋮
	2.9	+1.5		3.0	⋮
	3.0	+1.4		3.0	+1.4
50	3.1	+1.3		2.9	+1.5
	3.2	+1.2		2.9	+1.5
	3.4	+1.0	50	2.9	+1.5

		STA. 105+00 (2)			
D	S	D	S		
	3.1	+1.3		7.9	-3.5
	3.1	+1.3	50	7.8	-3.4
	3.3	+1.1		7.8	-3.4
	3.8	+0.6		7.4	-3.0
11+00	4.2	+0.2		7.0	-2.6
	4.9	-0.4		6.7	-2.3
	5.5	-1.1	13+00	6.1	-1.7
849	6.0	-1.6		5.3	-0.9
(49)	6.4	-2.0		5.8	-1.4
50	6.7	-2.3	851	6.4	-2.0
	7.1	-2.7	(49)	7.0	-2.6
	7.5	-3.1	50	8.3	-3.9
	7.6	-3.2		9.2	-4.8
	8.1	-3.7		10.8	-6.4
12+00	8.4	-4.0		11.4	-7.0
	8.3	-3.9		11.4	-7.0
	8.0	-3.6	14+00	11.3	-6.9
	8.0	-3.6		11.0	-6.6

D	SOUND	Dist	SOUND
20	10.4	-6.0	
	10.3	-5.9	
	10.0	-5.6	
50	10.1	-5.7	
	10.1	-5.7	
(4.4)	9.5	-5.1	
8 <sup>53</sup>	8.2	-3.8	
	6.5	-2.1	
15+00	5.8	-1.4	
	4.0	+0.4	
	3.9	+0.5	
	3.3	+1.1	
	3.4	+1.0	
50	3.9	+0.5	

10/5/46

STA. 104+00 (3)

0+00 = Range 100+00 SOUND EAST

Dist	SOUND	Dist	SOUND
0+00	2.0 +2.3	2.3	+2.0
	2.0 +2.3	2.3	+2.0
	2.1 +2.2	2.3	+2.0
	2.2 +2.1	2+00	2.3 +2.0
	2.2 +2.1		2.4 +1.9
50	2.2 +2.1		2.4 +1.9
917	2.2 +2.1	919	2.4 +1.9
(43)	2.2 +2.1	(43)	2.5 +1.8
	2.3 +2.0	50	2.4 +1.9
	2.3 +2.0		2.4 +1.9
1+00	2.3 +2.0		2.4 +1.9
	2.2 +2.1		2.4 +1.9
	2.2 +2.1		2.4 +1.9
	2.3 +2.0	3+00	2.4 +1.9
	2.3 +2.0		2.3 +2.0
50	2.3 +2.0		2.3 +2.0
	2.3 +2.0		2.3 +2.0



		STA. 104+00			
D	S	D	S	D	S
	2.3	+2.0		1.9	+2.4
50	2.3	+2.0		2.0	+2.3
	2.3	+2.0		2.4	+1.9
	2.3	+2.0	50	2.8	+1.5
	2.2	+2.1		3.0	+1.3
	2.2	+2.1		3.0	+1.3
4+00	2.1	+2.2		3.0	+1.3
(43)	2.1	+2.2		2.8	+1.5
92°	2.0	+2.3	6+00	2.4	+1.9
	2.0	+2.3	92°	2.0	+2.3
	2.0	}	(4.3)	1.9	+2.4
50	2.0			1.8	+2.3
	2.0	}		1.7	+2.6
	2.0		+2.3	50	1.8
	1.9	+2.4		1.8	+2.5
	1.9	}		2.0	+2.3
5+00	1.9			2.2	+2.1
	1.9	+2.4		2.2	+2.1

		STA. 104+00			
D	S	D	S	D	S
	2.2	+2.1		3.3	+1.0
	2.3	+2.0		3.2	+1.1
	2.3	+2.0	9+00	3.0	+1.3
	2.4	+1.9		3.0	+1.3
	2.4	+1.9		3.0	+1.3
50	2.6	+1.7		3.0	+1.3
	2.6	+1.7		3.0	+1.3
	2.7	+1.6	50	2.8	+1.5
	3.0	+1.3	92°	2.7	+1.6
	3.0	+1.3	(4.3)	2.7	+1.6
	3.0	+1.3	8+00	2.6	+1.7
	3.0	}		2.6	+1.7
	3.0			2.6	+1.7
	3.0	}	10+00	2.6	+1.7
	3.0			2.6	+1.7
	3.0	+1.3		2.5	+1.8
	3.1	+1.2	50	2.5	+1.8
	3.0	+1.3		2.4	+1.9
	3.1	+1.2	50	2.4	+1.9

STA. 104+00

D	S		D	S	
	2.4	+1.9		3.0	+1.3
	2.4	+1.9	50	3.0	+1.3
	2.5	+1.8		2.9	+1.4
	2.4	+1.9		2.9	+1.4
11+00	2.4	+1.9		2.9	+1.4
	2.3	+2.0		3.0	+1.3
	2.4	+1.9	13+00	3.1	+1.2
926	2.5	+1.8		3.2	+1.1
(4.3)	2.5	+1.8	927	3.3	+1.0
50	2.5	+1.8	(4.3)	3.7	+0.6
	2.6	+1.7		4.3	0.0
	2.7	+1.6	50	5.9	-1.6
	2.7	+1.6		7.1	-2.8
	3.0	+1.3		8.0	-3.7
12+00	3.0	+1.3		8.9	-4.6
	3.4	+0.9		10.5	-6.2
	3.6	+0.7	14+00	10.8	-6.5
	3.4	+0.9		10.9	-6.6

STA. 104+00

(5)

D	S		D	S
	11.0	-6.7		
	11.3	-7.0		
	11.6	-7.3		
50	11.2	-6.9		
	10.4	-6.1		
	9.3	-5.0		
(4.3)	3.4	+0.9		
929	3.5	+0.8		
15+00	3.4	+0.9		
	3.4	+0.9		
	3.3	+1.0		
	3.0	+1.3		
	3.0	+1.3		
50	3.0	+1.3		
60	2.8	+1.5		

10/5/46

STA. 105+00

0+00 = Range 100+00 SOUND West Dist

Dist	SOUND	Dist	SOUND
0+00			
	2.2 +2.2		1.9 +2.5
	2.2 +2.2		1.8 +2.6
	2.2 +2.2	2+00	1.8 +2.6
	2.2 +2.2		1.8 +2.6
5'0	2.2 +2.2	(4.4)	1.8 +2.6
	2.1 +2.3		1.8 +2.6
90'	2.1 +2.3	90'	1.7 +2.7
(4.4)	2.2 +2.2	50	1.7 +2.7
	2.1 +2.3		1.7 +2.7
1+00	2.1 +2.3		1.7 +2.7
	2.0 +2.4		1.7 +2.7
	2.0 +2.4		1.7 +2.7
	2.0 +2.4	3+00	1.6 +2.8
	2.0 +2.4		1.5 +2.9
50	1.9 +2.5		1.4 +3.0
	1.9 +2.5		1.3 +3.1

STA. 105+00 (6)

Dist	SOUND	Dist	SOUND
1.2	+3.2		
1.0	+3.4		
1.0	+3.4		
0.9	+3.5	50	0.9 +3.5
1.0	+3.4		0.8 +3.6
0.9	+3.5		0.6 +3.8
1.0	+3.4	90'	0.5 +3.9
1.0	+3.4	(4.4)	0.4 +4.0
1.1	+3.3	6+00	0.3 +4.1
1.3	+3.1		
(4.4)	2.4 +2.0		
3.3	+1.1		
3.3	+1.1		
3.0	+1.4		
3.0	+1.4	50	
3.0	+1.4		
3.0	+1.4		
3.0	+1.4		
2.9	+2.0	5+00	
2.0	+2.4		

10-5-46.

STA. 104+00

0+00 = Range 100+00 - SOUND West

Dist	SOUND	Dist	SOUND
0+00			1.7 +2.5
	2.0 +2.3		1.7 +2.5
	2.0 +2.3		1.6 +2.6
	2.0 +2.3	2+00	1.5 +2.7
	2.0 +2.3		1.5 +2.7
50	2.0 +2.3		1.5 +2.7
(43)	2.0 +2.3	(4.2)	1.6 +2.6
937	2.0 +2.3	938	1.5 +2.7
	2.0 +2.3	50	1.5 +2.7
	2.0 +2.3		1.5 +2.7
1+00	2.0 +2.3		1.5 +2.7
	2.0 +2.3		1.4 +2.8
	1.9 +2.4		1.4 +2.8
	1.8 +2.5	3+00	1.4 +2.8
	1.8 +2.5		1.3 +2.9
50	1.7 +2.6		1.4 +2.8
	1.7 +2.6		1.3 +2.9

STA 104+00

(7)

D	S	Dist	SOUND
	1.3		0.8 +3.4
	+2.9		
50	1.3		0.9 +3.3
	+2.9		
	1.2		0.8 +3.4
	+3.0		
	1.2	50	0.7 +3.5
	+3.0		
	1.1		0.8 +3.4
	+3.1		
	1.0		0.9 +3.3
	+3.2		
4+00	0.9		1.0 +3.2
	+3.3	(4.2)	
(4.2)	0.9	942	1.4 +2.8
	+3.3		
940	1.0	6+00	1.8 +2.4
	+3.2		
	1.3		1.3 +2.9
	+2.9		
	1.0		1.3 +2.9
	+3.2		
50	1.0		1.0 +3.2
	+3.2		
	0.8		1.2 +3.0
	+3.4		
	0.8	50	1.0 +3.2
	+3.4		
	0.8		1.0 +3.2
	+3.4		
	0.8		0.8 +3.4
	+3.4		
5+00	0.7		1.6 +2.6
	+3.5		
	0.7		2.8 +1.4
	+3.5		

STA 104+00

D	S	Dist	S
7+00	2.8	+1.4	2.6 +1.6
	2.8	+1.4	2.7 +1.5
	2.8	+1.4	9+00 2.8 +1.4
	2.8	+1.4	2.6 +1.6
	2.8	+1.4	2.6 +1.6
5.0	2.8	+1.4	1.9 +2.3
(4.2)	2.6	+1.6	1.3 +2.9
9 <sup>99</sup>	2.5	+1.7	50 0.4 +3.8
	2.3	+1.9	
	2.0	+2.2	
8+00	2.0	+2.2	
	2.0	+2.2	
	2.1	+2.1	
	2.2	+2.0	
	2.3	+1.9	
5.0	2.3	+1.9	
	2.3	+1.9	
	2.5	+1.7	

10/5/46

STA 103+00

(8)

0+00 = Range	100+00	SOUND	EAST
Dist	SOUND	Dist	SOUND
0+00	1.9	+2.2	2.0 +2.1
	1.9	+2.2	2.0 +2.1
	1.9	+2.2	1.9 +2.2
	1.9	+2.2	2+00 1.9 +2.2
	1.9	+2.2	1.8 +2.3
5.0	1.9	+2.2	(4.1) 1.9 +2.2
(4.1)	2.0	+2.1	100' 1.8 +2.3
10 <sup>00</sup>	2.0	+2.1	1.8 +2.3
	2.1	+2.0	50 1.8 +2.3
	2.1	+2.0	1.8 +2.3
1+00	2.0	+2.1	1.8 +2.3
	2.0	+2.1	1.8 +2.3
	2.1	+2.0	1.8 +2.3
	2.0	+2.1	3+00 1.8 +2.3
	2.0	+2.1	1.8 +2.3
50	2.0	+2.1	1.8 +2.3
	2.0	+2.1	1.8 +2.3

STA. 103+00

Dist	Sound	Dist	Sound
	1.8 +2.3		2.4 +1.7
50	1.8 +2.3		2.8 +1.3
	1.9 +2.2		2.8 +1.3
	1.9 +2.2	50	2.5 +1.6
	1.9 +2.2		2.0 +2.1
	1.9 +2.2		1.7 +2.4
4+00	1.9 +2.2		1.4 +2.7
	1.8 +2.3		1.3 +2.8
1002	1.7 +2.4	6+00	1.4 +2.7
(A.1)	1.6 +2.5	1004	1.6 +2.5
	1.6 +2.5	(A.1)	1.7 +2.4
50	1.5 +2.6		1.8 +2.3
	1.4 +2.7		1.9 +2.2
	1.4 +2.7	50	2.0 +2.1
	1.3 +2.8		2.0
	1.4 +2.7		2.0
5+00	2.2 +1.9		2.0
	2.4 +1.7		2.0 +2.1

STA. 103+00 (9)

D	S	D	S
7+00	2.0 +2.1		3.0 +1.1
	2.0 +2.1		2.9 +1.2
	2.1 +2.0	9+00	3.0 +1.1
	2.1 +2.0		3.0 +1.1
	2.2 +1.9		3.0 +1.1
50	2.1 +2.0		2.9 +1.2
	2.1 +2.0		2.8 +1.3
1005	2.1 +2.0	50	2.7 +1.4
(4.1)	2.2 +1.9	1007	2.6 +1.5
	2.4 +1.7	(4.1)	2.5 +1.6
8+00	2.4 +1.7		2.5 +1.6
	2.6 +1.5		2.5 +1.6
	2.8 +1.3	10+00	2.6 +1.5
	2.8 +1.3		2.6 +1.5
	3.0 +1.1		2.4 +1.7
50	2.8 +1.3		2.4
	2.8 +1.3		2.4
	3.0 +1.1	50	2.4 +1.7

		STA 103+00			
D	S	D	S	D	S
	2.4	+1.7		2.3	+1.8
	2.4	+1.7	50	2.3	+1.8
	2.4	+1.7		2.2	+1.9
	2.5	+1.6		2.1	+2.0
11+00	2.5	+1.6		2.0	+2.1
	2.5	+1.6		1.9	+2.2
	2.5	+1.6	13+00	1.8	+2.3
<sup>10<sup>08</sup></sup> (4.1)	2.6	+1.5	<sup>10<sup>10</sup></sup> (4.1)	1.9	+2.2
50	2.6	+1.5		2.1	+2.0
	2.8	+1.3		2.4	+1.7
	3.0	+1.1		3.0	+1.1
	2.9	+1.2	50	6.2	-2.1
	3.0	+1.1		9-1	<del>5.0</del>
	2.8	+1.3		10.5	-6.4
12+00	2.6	+1.5		11.4	-7.3
	2.6	+1.5		12.2	-8.1
	2.4	+1.7	14+00	13.3	-9.2
	2.4	+1.7		13.3	-9.2

		STA 103+00			
D	S	D	S	D	S
	13.0	-8.9			
	12.2	-8.1			
	11.9	-7.3			
	10.5	-6.4	50		
	9.3	-5.2			
	7.4	-3.3			
	4.0	+0.1			
	2.7	+1.4			
	2.5	+1.6	15+00		
	2.4	+1.7	<sup>10<sup>12</sup></sup> (4.1)		
	2.5	+1.6			
	2.4	+1.7			
	2.4	+1.7			
	2.7	+1.4	50		
	3.3	+0.8			
	4.1	0.0			
	5.0	-0.9	80		





10-5-46

STA. 102+00

0+00 = Range 100+00 SOUND EAST

Dist Sound Dist Sound

0+00 1.4 +2.5 1.4 +2.5

1.4 +2.5 1.6 +2.3

1.4 +2.5 1.6 +2.3

1.5 +2.4 2+00 1.7 +2.2

1.5 +2.4 1.6 +2.3

50 1.4 +2.5 1.6 +2.3

1.3 +2.6 10<sup>38</sup> 1.6 +2.310<sup>36</sup> 1.3 +2.6 (39) 1.5 +2.4

(39) 1.4 +2.5 50 1.6 +2.3

1.4 +2.5 1.6 +2.3

1+00 1.5 +2.4 1.5 +2.4

1.4 +2.5 1.6 +2.3

1.5 +2.4 1.5 +2.4

1.5 +2.4 3+00 1.4 +2.5

1.5 +2.4 1.5 +2.4

50 1.4 +2.5 1.4 +2.5

1.4 +2.5 1.3 +2.6

STA. 102+00

(12)

D S D S

1.3 +2.6 2.2 +1.7

50 1.3 2.0 +1.9

1.3 1.1 +2.8

1.3 50 1.0 +2.9

1.3 1.0 +2.9

1.3 1.0 +2.9

4+00 1.4 +2.5 (39) 1.1 +2.8

1.4 +2.5 10<sup>43</sup> 1.3 +2.610<sup>41</sup> 1.2 +2.7 6+00 1.4 +2.5

(39) 1.0 +2.9 1.9 +2.5

1.1 +2.8 1.5 +2.4

50 1.3 +2.6 1.6 +2.3

1.3 +2.6 1.8 +2.1

2.6 +1.3 50 1.8 +2.1

2.7 +1.2 1.7 +2.2

2.7 +1.2 1.8 +2.1

5+00 2.5 +1.4 1.9 +2.0

2.4 +1.5 1.9 +2.0

STA 102+00

D	S		D	S	
7+00	2.0	+1.9		2.6	+1.3
	2.0	+1.9		2.6	+1.3
	2.1	+1.8	9+00	2.7	+1.2
	2.0	+1.9		2.8	+1.1
	1.9	+2.0		2.8	+1.1
50	2.0	+1.9		2.8	+1.1
	2.0	+1.9		2.6	+1.3
(3.9)	2.1	+1.8	50	2.6	+1.3
10 <sup>95</sup>	2.1	+1.8	10 <sup>96</sup>	2.4	+1.5
	2.0	+1.9	(3.9)	2.4	+1.5
8+00	2.0	+1.9		2.4	+1.5
	2.1	+1.8		2.4	+1.5
	2.1	+1.8	10+00	2.4	+1.5
	2.2	+1.7		2.4	+1.5
	2.4	+1.5		2.4	+1.5
50	2.6	+1.3		2.4	+1.5
	2.7	+1.2		2.3	+1.6
	2.6	+1.3	50	2.3	+1.6

STA 102+00

(13)

D	S		D	S	
	2.3	+1.6		2.3	+1.6
	2.4	+1.5	50	2.3	+1.6
	2.4	+1.5		2.0	+1.9
	2.5	+1.4		2.0	+1.9
11+00	2.6	+1.3		2.0	+1.9
	2.6	+1.3		1.9	+2.0
(3.9)	2.7	+1.2	13+00	1.9	+2.0
	2.7	+1.2		1.9	+2.0
10 <sup>98</sup>	2.6	+1.3	10 <sup>99</sup>	1.8	+2.1
50	2.6	+1.3	(3.9)	1.4	+2.5
	2.4	+1.5		1.8	+2.1
	2.4		50	6.0	-2.1
	2.4			8.9	-5.0
	2.4			10.0	-6.1
12+00	2.3	+1.6		10.4	-6.5
	2.3			10.4	
	2.3		14+00	10.4	
	2.3			10.4	

STA. 102+00

D	S	
	10.4	-6.5
	10.4	}
	10.9	}
50	12.0	-8.1
	10.5	-6.6
	10.1	-6.2
(39)	7.2	-3.3
105	3.0	+0.9
15+00	1.8	+2.1
	1.5	+2.4
	1.4	+2.5
	1.6	+2.3
	1.8	+2.1
50	1.9	+2.0
60	1.6	+2.3
70	0.4	+3.5
73	0.0	+3.9

10-5-76

STA. 102+00

(14)

0+00 = Range 100+00 sand West

D	S		D	S	
0+00				1.1	+2.7
	1.4	+2.4		1.1	}
	1.4	+2.4		1.1	}
	1.4	+2.4	2+00	1.0	+2.8
	1.3	+2.5		1.0	}
50	1.3	+2.5	(38)	1.0	}
1107	1.2	+2.6	1109	1.0	}
(38)	1.2	+2.6	50	1.0	}
	1.3	+2.5		1.0	}
	1.2	+2.6		1.0	}
1+00	1.2	+2.6		1.0	}
	1.2	+2.6		1.0	}
	1.1	+2.7		1.0	}
	1.1	}	3+00	1.0	}
	1.1	}		0.9	+2.9
50	1.1	}		0.9	+2.9
	1.1	}		0.8	+3.0

STA. 102+00

D	SOUND	
	0.8	+3.0
50	0.8	+3.0
	0.7	+3.1
	0.7	+3.1
(3.8)	0.7	+3.1
110	0.6	+3.2
4+00	0.4	+3.4

50

5+00

10-5-96

(15)

STA. 101+00

0+00 = Range 100+00 SOUND EAST

Dist	SOUND		Dist	SOUND	
0+00	1.5			0.8	+2.8
	1.1	+2.5		0.8	
	1.0	+2.6		0.8	
	1.0		2+00	0.8	
	1.0			0.8	
50	1.0			0.8	
1205	1.0		1206	0.9	+2.7
(3.6)	1.0		(3.6)	0.9	+2.7
	1.0		50	0.8	+2.8
	1.0			0.8	
1400	0.7	+2.9		0.8	
	0.7	+2.9		0.8	
	0.9	+2.7		0.8	
	0.9	+2.7	3+00	0.8	
	0.9	+2.7		0.8	
50	0.8	+2.8		0.7	+2.9
	0.8	+2.8		0.8	+2.8

STA. 101+00			STA. 101+00		
D	S		D	S	
	0.7	+2.9		0.9	+2.7
50	0.6	+3.0		0.9	}
	0.7	+2.9		0.9	}
	0.8	+2.8	50	1.0	+2.6
	1.1	+2.5		1.0	+2.6
	1.8	+1.8		1.1	+2.5
4+00	2.0	+1.6	12 <sup>10</sup>	1.1	+2.5
	2.3	+1.3	(3.6)	1.2	+2.4
12 <sup>08</sup>	2.7	+0.9	6+00	1.2	}
(3.6)	2.3	+1.3		1.2	}
	2.2	+1.4		1.2	}
50	2.0	+1.6		1.2	}
	1.8	+1.8		1.2	}
	1.2	+2.4	500	1.3	+2.3
	0.6	+3.0		1.3	}
	0.8	+2.8		1.3	}
5+00	0.8	+2.8		1.3	}
	0.9	+2.7		1.3	}

STA. 101+00			STA. 101+00		
D	S		D	S	
7+00	1.4	+2.2		2.0	+1.6
	1.4	}		2.0	}
	1.4	}	9+00	2.0	}
	1.4	}		2.0	}
	1.5	+2.1		2.1	+1.5
50	1.5	}		2.2	+1.4
	1.5	}		2.2	}
12 <sup>12</sup>	1.5	}	50	2.2	}
(3.6)	1.5	}	12 <sup>13</sup>	2.2	}
	1.6	+2.0	(3.6)	2.2	}
8+00	1.7	+1.9		2.1	+1.5
	1.8	+1.8		2.1	+1.5
	1.8	}	10+00	2.1	+1.5
	1.8	}		2.2	+1.4
	1.8	}		2.2	}
50	1.8	}		2.2	}
	1.9	+1.7		2.2	}
	2.0	+1.6	50	2.2	}

(16)

STA. 101+00			STA. 101+00		
D	S		D	S	
	2.0	+1.6		1.9	+1.7
	1.9	+1.7	50	1.9	
	1.9			1.9	
	1.9			1.9	
11+00	1.9			1.8	+1.8
	1.9			1.8	+1.8
12 <sup>15</sup>	2.0	+1.6	13+00	1.7	+1.9
(3.6)	2.0	+1.6		1.7	+1.9
	2.1	+1.5	12 <sup>11</sup>	1.6	+2.0
50	2.1		(3.6)	1.5	+2.1
	2.1			1.4	+2.2
	2.1		50	1.4	+2.2
	2.1			6.6	-3.0
	2.0	+1.6		9.8	-6.2
12+00	2.0			10.2	-6.6
	2.0			9.9	-6.3
	2.0		14+00	10.0	-6.4
	2.0			10.3	-6.7

STA. 101+00			STA. 101+00		
D	S		D	S	
	9.8	-6.2			
	10.0	-6.4			
	9.2	-5.6			
50	9.0	-5.4			
	8.7	-5.1			
	8.6	-5.0			
(3.6)	7.4	-3.8			
12 <sup>18</sup>	6.1	-2.5			
15+00	2.9	+0.7			
	2.8	+0.8			
	1.6	+2.0			
	1.3	+2.3			
	1.3	+2.3			
50	1.4	+2.2			
60	0.9	+2.7			
70	0.4	+3.2			
75	0.0	+3.6			

(17)

10-5-46

STA. 101+00

0+00 = Range 100+00 SOUND West

D	S	D	S
0+00	1.3 +2.4		0.9 +2.8
	1.3 +2.4		0.9 +2.8
	1.2 +2.5		1.0 +2.7
	1.2 +2.5	2+00	0.9 +2.8
	1.2 +2.5		0.9
50	1.3 +2.4		0.9
	1.2 +2.5		0.9
1198	1.2 +2.5	1199	0.9
(3.7)	1.2 +2.5	(3.7)	0.8 +2.9
	1.1 +2.6	50	0.8
1+00	1.1 +2.6		0.8
	1.0 +2.7		0.7 +3.0
	1.0		0.7 +3.0
	1.0		0.8 +2.9
	1.0	3+00	0.8
	1.0	10	0.8
50	0.9 +2.8	20	0.4 +3.3
	0.9 +2.8	30	0.0 +3.7
		40	+0.3 +4.0
		50	+0.5 +4.2

10-6-46

STA. 72+00

(18)

0+00 = Range 100+00 - SOUND EAST

Dist	SOUND	Dist	SOUND
0+00	5.0 -0.3		8.3 -3.6
	5.1 -0.4		8.5 -3.8
	5.3 -0.6		8.6 -3.9
	5.5 -0.8	2+00	8.8 -4.1
	5.8 -1.1		9.0 -4.3
50	5.9 -1.2		9.6 -4.9
	5.8 -1.1	75'	10.0 -5.3
75'	5.7 -1.0	(4.7)	10.0 -5.3
(4.7)	5.6 -0.9	50	10.7 -6.0
	6.0 -1.3		10.5 -5.8
1+00	5.5 -0.8		11.0 -6.3
	5.4 -0.7		10.9 -6.2
	5.9 -1.2		10.2 -5.5
	6.6 -1.9	3+00	11.0 -6.3
	7.7 -3.0		11.1 -6.4
50	8.2 -3.5		11.0 -6.3
	8.2 -3.5		10.1 -5.4

STA. 72+00					
D	S		D	S	
	10.8	-6.1		10.4	-5.7
50	10.9	-6.2		10.9	-6.2
	10.7	-6.0		10.5	-5.8
	10.2	-5.5	50	10.0	-5.3
	10.9	-6.2		10.7	-6.0
	10.5	-5.8		10.0	-5.3
4+00	10.9	-6.2	(4.7)	9.1	-4.4
	10.8	-6.1	754	9.0	-4.3
753	10.2	-5.5	6+00	8.8	-4.1
(4.7)	11.7	-7.0		9.1	-4.4
	11.8	-7.1		9.2	-4.5
50	11.6	-6.9		8.8	-4.1
	11.1	-6.4		8.4	-3.7
	11.0	-6.3	50	8.4	-3.7
	10.8	-6.1		8.2	-3.5
	10.6	-5.9		7.7	-3.0
5+00	10.3	-5.6		7.3	-2.6
	10.8	-6.1		7.7	-3.0

STA. 72+00					(19)
D	S		D	S	
7+00	7.3	-2.6		5.0	-0.3
	7.3	-2.6		4.9	-0.2
	6.9	-2.2	9+00	5.0	-0.3
	6.9	-2.2		4.9	-0.2
	7.0	-2.3		4.3	+0.4
50	6.8	-2.1		4.3	+0.4
	6.3	-1.6		4.3	+0.4
756	6.9	-2.2	50	4.9	-0.2
(4.7)	6.4	-1.7	758	5.8	-1.1
	6.0	-1.3	(4.7)	6.0	-1.3
8+00	6.1	-1.4		6.0	-1.3
	6.0	-1.3		6.4	-1.4
	5.9	-1.2	10+00	7.0	-2.3
	5.8	-1.1		7.8	-3.1
	5.2	-0.5		8.0	-3.3
50	5.2	-0.5		8.2	-3.5
	5.2	-0.5		8.9	-4.2
	5.1	-0.4	50	9.4	-4.7



STA. 72+00

STA. 72+00

D	S		D	S	
	9.7	-5.0		12.3	-7.6
	10.0	-5.3	50	12.4	-7.7
	10.2	-5.5		12.7	-8.0
	10.0	-5.3		13.0	-8.3
11+00	10.2	-5.5		13.4	-8.7
	10.8	-6.1		13.3	-8.6
800	11.1	-6.4	13+00	13.8	-9.1
(A.7)	11.6	-6.9		14.0	-9.3
	12.0	-7.3	802	13.7	-9.0
50	11.4	-6.7	(A.7)	13.0	-8.3
	11.2	-6.5		12.9	-8.2
	11.3	-6.6	50	12.6	-7.9
	11.7	-7.0		12.5	-7.8
	12.0	-7.3		12.6	-7.9
12+00	12.1	-7.4		12.4	-7.7
	12.2	-7.5		13.3	-8.6
	12.1	-7.4	14+00	13.6	-8.9
	11.9	-7.2		15.7	-11.0

D	S		D	S	
	17.0	-12.3	16+00	14.9	-10.2
	17.8	-13.1	10	14.0	-9.3
	17.2	-12.5	20	13.4	-8.7
			30	13.2	-8.5
50	15.9	-11.2	40	11.4	-6.7
			50	9.7	-5.6
	15.4	-10.7	60	10.0	-5.3
	15.3	-10.6	70	9.3	-4.6
	14.9	-10.2	80	8.7	-4.0
804	15.2	-10.5	90	8.2	-3.5
			17+00	8.0	-3.3
15+00	15.2	-10.5	10	8.1	-3.4
(A.7)	16.3	-11.6	20	8.2	-3.5
	14.8	-10.1	30	8.4	-3.7
	15.9	-11.2	40	8.9	-4.2
	15.6	-10.9	50	9.3	-4.6
50	14.8	-10.1	60	9.2	-4.5
			70	10.3	-5.6
			80	12.4	-7.7
			90	12.8	-8.1
			18+00	11.6	-6.9
			10	11.6	-6.9
			20	11.3	-6.6
			30	11.0	-6.3
			40	11.2	-6.5
			50	11.7	-7.0
			60	12.0	-7.3
			70	12.2	-7.5
			80	10.9	-6.2
			90	11.3	-6.6
			19+00	11.3	-6.6
			10	10.7	-6.0
			20	9.6	-4.9
			30	9.4	-4.7
			40	8.3	-3.6
			50	4.2	+0.5
			60	3.7	+1.0
			70	3.5	+1.2
			80	3.2	+1.4

90-3.0 +1.7  
 20400-0.0 +4.7

10-6-46

STA. 72+00

0+00 = Range 100+00 SOUND WEST

	D	S		D	S
0+00				13.0	-8.3
	5.1	-0.4		12.4	-7.7
	5.1	-0.4		12.6	-7.9
	5.3	-0.6	2+00	12.7	-8.0
	5.3	⋮			
50	5.3	⋮			
	5.2	-0.5			
817	5.2	-0.5			
(4.7)	5.3	-0.6	50		
	5.5	-0.8			
1+00	5.7	-1.0			
	5.8	-1.1			
	6.0	-1.3			
	7.9	-3.2	3+00		
	12.7	-8.0			
50	13.3	-8.6			
	13.2	-8.5			

10-6-46

STA. 75+00

(21)

0+00 = RANGE 100+00 SOUND EAST

	D	S		D	S
0+00				3.2	+1.5
				3.2	+1.5
				3.3	+1.4
			2+00	3.0	+1.7
				2.8	+1.9
50				2.8	+1.9
				2.6	+2.1
902				2.5	+2.2
(4.7)				2.8	+1.9
			50	2.6	+2.1
1+00				2.5	+2.2
				2.4	+2.3
				2.3	+2.4
			3+00	2.3	+2.4
				2.0	+2.7
50				2.2	+2.5
				2.2	+2.5

10-6-46

STA. 75+00

(21)

0+00 = RANGE 100+00 SOUND EAST

	D	S		D	S
0+00				2.2	+2.5
				2.1	+2.6
				2.3	+2.4
			2+00	2.8	+1.9
				3.5	+1.2
50				4.1	+0.6
				4.4	+0.3
				4.6	+0.1
			50	5.0	-0.3
				5.1	-0.4
				5.3	-0.6
				5.8	-1.1
				6.4	-1.7
			3+00	6.8	-2.1
				7.0	-2.3
				7.2	-2.5
				7.5	-2.8

STA. 75+00

STA. 75+00

(22)

D	S		D	S	
	7.9	-3.2		7.3	-2.6
50	8.0	-3.3		7.3	~
	8.6	-3.9		7.3	~
	8.4	-3.7	50	7.3	~
	8.4	-3.7		7.4	-2.7
	7.9	-3.2		7.2	-2.5
4+00	7.4	-2.7	907	7.1	-2.4
	7.0	-2.3		7.0	-2.3
905	7.0	-2.3	6+00	7.0	-2.3
(A.7)	7.0	-2.3	(A.7)	7.0	~
	6.9	-2.2		7.0	~
50	6.9	-2.2		6.9	-2.2
	7.0	-2.3		6.9	~
	7.6	-2.9	50	6.9	~
	7.5	-2.8		7.0	-2.3
	7.3	-2.6		7.0	~
5+00	7.3	-2.6		7.0	~
	7.2	-2.5		6.9	-2.2

D	S		D	S	
7+00	6.9	-2.2		6.3	-1.6
	6.9	~		6.2	-1.5
	6.9	~	9+00	5.8	-1.1
	6.9	~		6.0	-1.3
	6.9	~		6.2	-1.5
50	6.8	-2.1		6.4	-1.7
	6.6	-1.9		6.7	-2.0
909	6.5	-1.8	50	6.3	-1.6
(A.7)	6.3	-1.6	910	6.0	-1.3
	6.5	-1.8	(A.7)	5.2	-0.5
8+00	6.6	-1.9		5.2	-0.5
	6.6	~		5.0	-0.3
	6.6	~	10+00	5.0	-0.3
	6.6	-1.9		4.9	-0.2
	6.5	-1.8		4.9	-0.2
50	6.5	-1.8		5.2	-0.5
	6.4	-1.7		5.4	-0.7
	6.3	-1.6	50	5.8	-1.1

STA. 75+00

D	S	D	S
	6.3 -1.6		7.0 -2.4
	6.3 -1.6	50	6.9 -2.3
	6.3 -1.6		7.3 -2.7
	6.4 -1.7		7.7 -3.1
11+00	6.5 -1.8		7.4 -2.8
	6.6 -1.9		8.0 -3.4
	6.6 -1.9	13+00	8.0
9 <sup>11</sup>	6.4 -1.7		8.0
-	6.8 -2.1	9 <sup>13</sup>	8.8 -4.2
50	6.4 -1.7	(A.6)	8.6 -4.0
(A.7)	6.7 -2.0		9.0 -4.4
	7.0 -2.3	50	9.0 -4.4
	8.0 -3.3		9.3 -4.7
	6.3 -1.6		9.4 -4.8
12+00	7.2 -2.5		9.8 -5.2
	6.4 -1.7		10.0 -5.4
	6.1 -1.4	14+00	10.0
	6.2 -1.5		10.0

(23)

STA. 75+00

D	S	D	S
	10.9 -6.3	16+00	9.4 -4.8
	11.1 -6.5		11.8 -7.2
	11.6 -7.0		12.1 -7.5
50	12.7 -8.1		16.3 -11.7
	13.0 -8.4		15.0 -10.4
	13.9 -9.3	50	11.5 -6.9
	13.3 -8.7		12.2 -7.6
	14.0 -9.4	9 <sup>17</sup>	12.3 -7.7
15+00	14.6 -10.0	(4.6)	12.3 -7.7
9 <sup>15</sup>	14.4 -9.8		11.2 -6.6
(4.6)	14.2 -9.6	17+00	9.1 -4.5
	13.9 -9.3		8.6 -4.0
	13.0 -8.4		9.3 -4.7
50	13.0		10.3 -5.7
	13.0		10.0 -5.4
	15.7 -11.1	50	10.0 -5.4
	15.6 -11.0		10.7 -6.1
	13.2 -8.6		9.8 -5.2

STA. 75+00

D	S	D	S
	9.0 -4.4	60	6.5 -1.9
	8.6 -4.0	70	8.0 -3.4
18+00	8.1 -3.5	80	11.0 -6.4
	8.0 -3.4	90	14.0 -9.4
	8.3 -3.7	CAUSEWAY	
	8.0 -3.4		
920	7.9 -3.3		
50	7.0 -2.4		
(4.6)	8.5 -3.9		
	9.2 -4.6		
	9.9 -5.3		
	9.3 -4.7		
19+00	9.1 -4.5		
	9.0 -4.4		
	8.3 -3.7		
	8.2 -3.6		
	7.4 -2.8		
50	6.4 -1.8		

10-6-46

(24)

STA. 75+00

0+00 = Range		100+00		SOUND WEST	
D	S	D	S	D	S
				4.0	+0.5
0+00				4.0	+0.5
	3.1	+1.4		3.9	+0.6
	3.3	+1.2		5.2	-0.7
	3.3		2+00	9.0	-4.5
	3.3			12.0	-7.5
50	3.3			14.5	-10.0
	3.2	+1.3		16.1	-11.6
930	3.4	+1.1	932	13.2	-8.7
(4.5)	3.7	+0.8	50		
	3.6	+0.9	(4.5)		
1+00	3.6	+0.9			
	3.8	+0.7			
	3.9	+0.6			
	3.9	+0.6	3+00		
	4.0	+0.5			
50	4.0				
	4.0				

10-6-96

STA. 74+00

0+00 = Range		100+00		SOUND EAST	
D	S	D	S	D	S
0+00	3.1 + 1.4		2.0 + 2.5		
	3.1 + 1.4		1.9 + 2.6		
	3.0 + 1.5		1.9		
	3.0	2+00	1.9		
	3.0		1.8 + 2.7		
50	3.0	(4.5)	1.8 + 2.7	4+00	
939	3.0	941	1.9 + 2.6	943	
(4.5)	2.8 + 1.7		2.2 + 2.3	(4.5)	
	2.4 + 2.1	50	2.4 + 2.1		
	2.4		2.4		
1+00	2.4		2.4		
	2.2 + 2.3		2.3 + 2.2		
	2.3 + 2.2		2.3 + 2.2		
	2.3 + 2.2	3+00	2.4 + 2.1		
	2.1 + 2.4		2.5 + 2.0		
50	2.0 + 2.5		2.7 + 1.8	5+00	
	2.1 + 2.4		2.8 + 1.7		

STA. 74+00

(25)

D		S		D		S	
	2.6 + 1.9		2.0 + 2.4				
50	2.7 + 1.8		1.9 + 2.5				
	2.8 + 1.7		1.8 + 2.6				
	2.9 + 1.6	50	1.8				
	3.0 + 1.5		1.8				
	3.2 + 1.3		1.8				
	4.4 + 0.1	946	1.7 + 2.7				
	7.2 - 2.7		1.7				
	8.0 - 3.5	(4.4)	1.7				
	7.0 - 2.5	6+00	1.7				
	4.1 + 0.4		1.7				
	3.5 + 1.0		2.1 + 2.3				
50	2.2 + 2.3		2.6 + 1.8				
	2.3 + 2.2	50	3.0 + 1.4				
	2.2 + 2.3		3.1 + 1.3				
	2.2 + 2.3		3.4 + 1.0				
	2.2 + 2.3		4.0 + 0.4				
	2.1 + 2.4		4.2 + 0.2				
	2.0 + 2.5		4.7 - 0.3				

STA. 74+00

D	S		D	S	
7+00	5.3	-0.9		7.4	-3.0
50	5.9	-1.5		7.8	-3.4
	6.1	-1.7	9+00	7.7	-3.3
	7.7	-3.3		7.7	-3.3
	8.0	-3.6		7.6	-3.2
50	7.5	-3.1		7.3	-2.9
949	8.2	-3.8		7.6	-3.2
(4.4)	8.0	-3.6	50	7.7	-3.3
	7.6	-3.2	950	7.7	-3.3
	7.6	-3.2	(4.4)	7.9	-3.5
8+00	8.0	-3.6		7.6	-3.2
50	8.1	-3.7		7.2	-2.8
	8.0	-3.6	10+00	7.3	-2.9
	8.7	-4.3		6.6	-2.2
	8.6	-4.2		7.7	-3.3
50	7.9	-3.5		7.2	-2.8
5400	8.1	-3.7		7.0	-2.6
	8.0	-3.6	50	7.0	-2.6

STA. 74+00

(26)

D	S		D	S	
	6.8	-2.4		7.7	-3.4
	7.0	-2.6	50	8.4	-4.1
	6.3	-1.9		8.4	-4.1
	6.1	-1.7		8.7	-4.4
11+00	6.3	-1.9		8.6	-4.3
	5.7	-1.3		9.0	-4.7
	5.5	-1.1	13+00	9.5	-5.2
952	5.4	-1.0	955	10.2	-5.9
(4.4)	5.0	-0.6		10.3	-6.0
50	5.0		(4.3)	11.1	-6.8
	5.0			11.4	-7.1
	5.8	-1.4	50	11.2	-6.9
	5.9	-1.5		12.3	-8.0
	6.8	-2.4		11.4	-7.1
12+00	6.5	-2.1		12.3	-8.0
	7.3	-2.9		12.6	-8.3
	7.2	-2.8	14+00	13.2	-8.9
	7.9	-3.5		13.2	-8.9

		STA. 74+00			
D	S	D	S		
	13.0	-8.7	16+00	13.3	-9.0
	12.2	-7.9		12.2	-7.9
	11.9	-7.6		11.5	-7.2
50	11.7	-7.4		11.0	-6.7
	11.7	-7.4		10.4	-6.1
	11.6	-7.3	50	10.4	-6.1
95 <sup>0</sup>	11.6	-7.3		10.5	-6.2
(A3)	11.3	-7.0	10 <sup>00</sup>	10.2	-5.9
15+00	11.7	-7.4	(A3)	10.4	-6.1
	11.2	-6.9		10.8	-6.5
	11.0	-6.7	17+00	10.6	-6.3
	10.7	-6.4		10.4	-6.1
	11.0	-6.7		10.5	-6.2
50	12.0	-7.7		10.6	-6.3
	13.1	-8.8		10.6	-6.3
	12.6	-8.3	50	10.2	-5.9
	12.3	-8.0		9.5	-5.2
	14.2	-9.9		9.7	-5.4

		STA. 74+00 (27)			
D	S	D	S		
	10.0	-5.7		10.6	-6.3
	9.8	-5.5		10.2	-5.9
18+00	9.2	-4.9		13.0	-8.7
	8.5	-4.2		14.5	-10.2
	7.7	-3.4	20+00	17.4	-13.1
	9.0	-4.7		causeway	
	8.8	-4.5			
50	7.9	-3.6			
10 <sup>00</sup>	6.8	-2.5			
(A3)	6.4	-2.1			
	7.0	-2.7			
	8.1	-3.8			
19+00	9.8	-5.5			
	10.5	-6.2			
	11.3	-7.0			
	11.2	-6.9			
	10.7	-6.4			
50	10.6	-6.3			



10-6-96

STA 74+00

0+00 = Range 100+00 SOUND West

	D	S	D	S
0+00				
10 <sup>00</sup>				
	2.8	+1.5		4.7 -0.4
	2.9	+1.4		4.4 -0.1
	2.9	+1.4	2+00	6.8 -2.5
	2.8	+1.5		10.3 -6.0
50	2.8		10 <sup>13</sup>	13.0 -8.7
10 <sup>12</sup>	2.8		(4.3)	14.4 -10.1
(4.3)	2.8			14.8 -10.5
	2.8		50	14.9 -10.6
	3.0	+1.3		14.7 -10.4
1+00	3.1	+1.2		
10 <sup>100</sup>	3.1	+1.2		
	2.9	+1.4		
	3.5	+0.8	3+00	
	4.0	+0.3		
50	4.0	+0.3		
	4.4	-0.1		

10-6-96

(28)

STA 73+00

0+00 = Range 100+00 SOUND EAST

	D	S	D	S
0+00				
10 <sup>00</sup>				
	2.9	+1.3		3.0 +1.2
	2.8	+1.4		2.3 +1.9
	2.8	+1.4		2.3 +1.9
	2.7	+1.5	2+00	2.5 +1.7
	2.5	+1.7		3.0 +1.2
50	2.6	+1.6		3.1 +1.1
	2.6	+1.6	10 <sup>20</sup>	3.0 +1.2
	2.3	+1.9	(4.2)	3.3 +0.9
	2.3	+1.9	50	3.6 +0.6
	2.3			3.7 +0.5
1+00	2.3			3.8 +0.4
	2.3			4.0 +0.2
	2.4	+1.8		4.0 +0.2
	2.5	+1.7	3+00	4.1 +0.1
	2.9	+1.3		4.3 -0.1
50	2.9			4.3 -0.1
	2.9			4.4 -0.2

STA 73+00

D	S	D	S
	4.8 -0.7		8.3 -4.2
50	4.8 -0.7		8.2 -4.1
	5.0 -0.9		8.2 -4.1
	5.1 -1.0	50	8.9 -4.8
	5.5 -1.4		9.3 -5.2
	5.9 -1.8		9.0 -4.9
4+00	6.0 -1.9	(4.1)	8.9 -4.8
	6.2 -2.1	1025	8.3 -4.2
1022	6.3 -2.2	6+00	9.0 -4.9
(9.1)	6.4 -2.3		9.0
	6.8 -2.7		9.0
50	7.0 -2.9		9.0
	7.0 -2.9		8.3 -4.2
	7.1 -3.0	50	7.9 -3.8
	8.3 -4.2		8.4 -4.3
	8.3 -4.2		8.9 -4.8
5+00	8.3 -4.2		8.3 -4.2
	8.4 -4.3		7.8 -3.7

(29)

STA 73+00

D	S	D	S
7+00	7.4 -3.3		5.8 -1.8
	8.0 -3.9		5.7 -1.7
	8.1 -4.0	9+00	5.9 -1.9
	7.5 -3.4		5.7 -1.7
	7.9 -3.8		5.5 -1.5
50	7.7 -3.6		5.4 -1.4
(4.1)	7.0 -2.9	1030	5.6 -1.6
	6.8 -2.7	50	5.5 -1.5
1022	6.8 -2.7	(4.0)	5.6 -1.6
	6.6 -2.5		5.0 -1.0
8+00	6.4 -2.3		5.3 -1.3
	6.3 -2.2		5.2 -1.2
	6.3 -2.2	10+00	4.9 -0.9
	6.0 -1.9		5.1 -1.1
	5.8 -1.7		4.9 -0.4
50	5.8 -1.7		4.8 -0.8
	6.0 -1.9		4.3 -0.3
	5.9 -1.8	50	4.3 -0.3

STA. 73+00

D	S	D	S
	4.3 -0.3		10.1 -6.1
	4.6 -0.6	50	10.5 -6.5
	5.3 -1.3		10.6 -6.6
	5.8 -1.8		11.0 -7.0
11+00	6.3 -2.3		11.1 -7.1
	7.0 -3.0		11.0 -7.0
10 <sup>33</sup>	6.7 -2.7	13+00	11.1 -7.1
(4.0)	7.2 -3.2	10 <sup>35</sup>	11.3 -7.3
50	7.3 -3.3	(4.0)	11.3 -7.3
	8.0 -4.0		11.4 -7.4
	8.0 -4.0		12.0 -8.0
	8.6 -4.6	50	12.0 -8.0
	9.2 -5.2		12.7 -8.7
	9.8 -5.8		12.4 -8.4
12+00	10.0 -6.0		11.7 -7.7
	10.8 -6.8		11.0 -7.0
	10.1 -6.1	14+00	12.1 -8.1
	9.9 -5.9		12.1 -8.1

STA. 73+00

(30)

D	S	D	S
	12.3 -8.3	16+00	13.8 -9.8
	11.7 -7.7		13.5 -9.5
	12.2 -8.2		11.3 -7.3
50	11.4 -7.4		11.0 -7.0
	11.3 -7.3		11.6 -7.6
	12.1 -8.1	50	11.8 -7.8
	11.8 -7.8		12.1 -8.1
10 <sup>38</sup>	11.4 -7.4	10 <sup>40</sup>	13.0 -9.0
15+00	11.6 -7.6	(4.0)	13.0 -9.0
(4.0)	11.3 -7.3		12.9 -8.9
	11.3 -7.3	17+00	12.6 -8.6
	12.8 -8.8		12.3 -8.3
	14.0 -10.0		12.0 -9.0
50	13.0 -9.0		12.0 -8.0
	12.0 -8.0		11.2 -7.2
	12.7 -8.7	50	10.4 -6.4
	13.0 -9.0		10.0 -6.0
	13.2 -9.2		8.8 -4.8

STA. 73+00

D	S	D	S
	7.2 -3.2		12.6 -8.6
	5.4 -1.4		12.6 -8.6
18+00	6.3 -2.3		13.8 -9.8
	7.4 -3.4		14.4 -10.4
	7.8 -3.8	20+00	14.6 -10.6
	8.2 -4.2	10	14.7 -10.7
	8.9 -4.9	20	16.0 -12.0
50	9.4 -5.4	30	
1093	10.0 -6.0		
(9.0)	10.7 -6.7	CAUSEWAY	
	11.2 -7.2		
	12.3 -8.3		
19+00	12.5 -8.5		
	11.6 -7.6		
	12.1 -8.1		
	12.1 -8.1		
	12.4 -8.4		
50	12.0 -8.0		

10-6-46  
STA. 73+00

(31)

0+00-	Range	100+00	SOUND	West
D	S	D	S	
0+00			12.1	-8.2
	2.4 +1.5		12.0	-8.1
	2.6 +1.3		12.2	-8.3
	3.0 +0.9	2+00	12.3	-8.4
	3.3 +0.6			
50	3.5 +0.4			
	3.6 +0.3			
1052	3.5 +0.4			
(3.9)	3.5 +0.4	50		
	3.0 +0.9			
1+00	2.9 +1.0			
	2.9 +1.0			
	3.9 0.0			
	4.0 -0.1			
	4.8 -0.9			
50	7.7 -3.8			
	11.0 -7.1			

10-6-96

STA. 77+00

0+00 = Range 100+00 SOUND EAST

	D	S		D	S
0+00	2.3	+1.2		1.6	+1.9
	2.3	+1.2		1.7	+1.8
	2.3	}		1.7	}
	2.3			1.7	
	2.2	+1.3	2+00	1.6	+1.9
50	2.0	+1.5	(3.5)	1.6	+1.9
12 <sup>02</sup>	2.0	+1.5	12 <sup>03</sup>	1.5	+2.0
(3.5)	1.9	+1.6		1.4	+2.1
	1.9	+1.6	50	1.3	+2.2
	2.0	+1.5		1.3	+2.2
1+00	2.0	}		1.2	+2.3
	2.0			1.2	}
	2.0			1.2	
	1.8	+1.7	3+00	1.2	
	1.8	+1.7		1.3	+2.2
50	1.8	+1.7		1.3	}
	1.7	+1.8		1.3	

STA. 77+00

(32)

	D	S		D	S
	1.3	+2.1		1.0	+2.4
50	1.3	+2.1		0.7	+2.7
	1.5	+1.9		0.5	+2.9
	1.6	+1.8	50	0.8	+2.6
	1.6	+1.8		0.6	+2.8
	1.7	+1.7		0.3	+3.1
4+00	1.8	+1.6	(3.4)	0.1	+3.3
12 <sup>05</sup>	1.8	+1.6	12 <sup>06</sup>	0.0	+3.4
(3.4)	1.9	+1.5	6+00	10.0	+3.4
	2.0	+1.4			
	2.2	+1.2			
50	1.9	+1.5			
	1.4	+2.0			
	1.3	+2.1			
	1.2	+2.2			
	1.1	+2.3			
5+00	1.0	+2.4			
	0.9	+2.5			

10-6-96

STA. 77+00

0+00 = Range 100+00 - SOUND WEST

D	S	D	S
0+00			6.9 -3.5
	2.3 +1.1		6.7 -3.3
	2.0 +1.4		6.3 -2.9
	2.2 +1.2	2+00	5.7 -2.3
	2.0 +1.4		5.3 -1.9
50	2.1 +1.3	(3.4)	9.4 -1.0
12 <sup>15</sup>	2.8 +0.6	12 <sup>17</sup>	3.6 -0.2
(3.4)	3.0 +0.4		4.0 -0.6
	3.9 -0.5	50	5.0 -1.6
	4.1 -0.7		5.9 -2.5
1+00	5.0 -1.6		6.4 -3.0
	5.2 -1.8		7.0 -3.6
	5.8 -2.4		7.0
	6.0 -2.6	3+00	7.0
	6.6 -3.2		6.9 -3.5
50	7.0 -3.6		7.1 -3.7
	7.0 -3.6		7.0 -3.6
			11.1 -7.7
		50 -	13.0 -9.6
		60 -	13.0 -9.6

10-6-96

STA. 84+00

(33)

0+00 = Range 100+00 - SOUND EAST

D	S	D	S
0+00			2.9 +0.4
	2.8 +0.5		0.5 +2.8
	2.7 +0.6		0.3 +3.0
	2.6 +0.7	2+00	0.5 +2.8
	2.9 +0.4		0.5
50	2.8 +0.5		0.5
12 <sup>28</sup>	2.7 +0.6	12 <sup>30</sup>	0.4 +2.9
(3.3)	2.2 +1.1	(3.3)	0.6 +2.7
	2.0 +1.3	50	0.6 +2.7
	2.0 +1.3		0.7 +2.6
1+00	1.9 +1.4		0.7 +2.6
	1.8 +1.5		0.7 +2.6
	1.8 +1.5		1.0 +2.3
	1.7 +1.6	3+00	1.1 +2.2
	1.1 +2.2		1.2 +2.1
50	0.8 +2.5		1.2
	0.5 +2.8		1.2

		Sta 84+00			
D	S	D	S	D	S
	1.0	+2.3		1.0	+2.3
50	1.0	{		1.0	{
	1.0	{		1.0	{
	1.0	{	50	1.0	{
	0.9	+2.4		1.0	{
	1.0	+2.3		1.0	{
7+00	1.0	{	(3.3)	1.0	{
12 <sup>31</sup>	1.0	{	12 <sup>33</sup>	1.0	{
(3.3)	0.9	+2.4	6+00	1.0	{
	1.0	+2.3		1.0	{
	1.0	{		1.0	{
50	1.0	{		1.0	{
	1.0	{		1.0	{
	1.0	{	50	1.0	{
	1.0	{		1.0	{
	0.9	+2.4		0.9	+2.4
5+00	0.9	{		0.8	+2.5
	0.9	{		0.7	+2.6

		Sta 84+00			
D	S	D	S	D	S
7+00	0.7	+2.6		0.0	+3.3
	0.6	+2.7		+0.1	+3.4
	0.6	+2.7	9+00	+0.1	{
	0.5	+2.8		+0.1	{
	0.5	+2.8		0.0	+3.3
50	0.3	+3.0	(3.3)	0.1	+3.2
12 <sup>35</sup>	0.5	+2.8	12 <sup>37</sup>	0.1	+3.2
(3.3)	0.4	+2.9	50	0.7	+2.6
	0.2	+3.1		1.4	+1.9
	0.1	+3.2		1.6	+1.7
8+00	0.1	{		1.7	+1.6
	0.1	{		1.7	+1.6
	0.1	{		1.7	+1.6
	0.1	{	10+00	1.8	+1.5
	0.1	{		1.7	+1.6
	0.1	{		1.5	+1.8
50	0.1	{		1.4	+1.9
	0.1	{		1.0	+2.3
	0.0	+3.3		0.9	+2.4

STA 84+00

Inverted

D	S	
	0.7	+2.6
	0.6	+2.7
	0.5	+2.8
	0.4	+2.9
11+00	0.3	+3.0
	0.3	+3.0
12 <sup>41</sup>	0.2	+3.1
(3.3)	+0.2	+3.5
	+0.5	+3.8
50	+0.7	+4.0

12+00

10-6-96

STA 85+00

(35)

0+00 = Range			100+00 - SOUND EAST		
D	S		D	S	
0+00	1.5	+1.8		1.9	+1.4
	1.3	+2.0		2.4	+0.9
	1.5	+1.8		2.4	}
	1.6	+1.7	2+00	2.4	
	1.7	+1.6		2.0	+1.3
50	1.7	}		1.8	+1.5
	1.7			1.6	+1.7
12 <sup>56</sup>	1.7		12 <sup>58</sup>	1.5	+1.8
(3.3)	1.7		50	1.7	+1.6
	1.6	+1.7	(3.3)	1.8	+1.5
1+00	1.6	+1.7		1.8	}
	1.7	+1.6		1.8	
	1.8	+1.5		1.7	+1.6
	1.8	+1.5	3+00	1.4	+1.9
	1.9	+1.4	3+00	1.4	}
50	1.9	}		1.4	
	1.9			1.3	+2.0



STA. 85+00

D	S	D	S
	1.2 +2.1		1.3 +2.0
50	0.9 +2.4		1.6 +1.7
	0.5 +2.8		1.7 +1.6
	0.4 +2.9	50	1.8 +1.5
	0.3 +3.0		1.9 +1.4
	0.2 +3.1		2.0 +1.3
4+00	0.3 +3.0		1.9 +1.4
	0.3 +3.0		2.0 +1.3
<sup>100</sup> 3.3	0.4 +2.9	6+00	1.8 +1.5
	0.4 +2.9	<sup>103</sup>	1.9 +1.4
	0.5 +2.8	3.3	1.9 +1.4
50	1.0 +2.3	3.3	2.0 +1.3
	1.2 +2.1		2.0 {
	1.4 +1.9	50	2.0 {
	1.4 +1.9		2.1 +1.2
	1.3 +2.0		2.1 +1.2
5+00	1.3 +2.0		2.2 +1.1
	1.2 +2.1		2.0 +1.3

STA. 85+00

(36)

D	S	D	S
7+00	2.0 +1.3		1.4 +1.9
	1.9 +1.4		1.4 +1.9
	1.9 {	9+00	1.2 +2.1
	1.9 {		1.1 +2.2
	1.8 +1.5		1.1 +2.2
50	1.8 +1.5		1.0 +2.3
	1.9 +1.4		1.0 {
	1.9 +1.4	50	1.0 {
	1.8 +1.5	1.4	1.0 {
<sup>103</sup> 3.3	1.8 {	3.3	1.0 {
8+00	1.8 {		0.9 +2.4
	1.8 {		0.8 +2.5
	1.7 +1.6	10+00	0.8 {
	1.6 +1.7		0.8 {
	1.5 +1.8		0.9 +2.4
50	1.5 {		0.9 +2.4
	1.5 {		1.0 +2.3
	1.4 +1.9	50	1.5 +1.8

S + A. 85 + 00

D	S		D	S	
	1.6	+1.7		0.1	+3.2
	1.8	+1.5	50	0.1	+3.2
	1.6	+1.7	60	0.1	+3.2
	1.5	+1.8	70	0.0	+3.3
11 + 00	1.5	}	80	+0.1	+3.4
	1.5		90	+0.3	+3.6
	0.9	+2.4	13 + 00	+0.5	+3.8
105	0.6	+2.7			
	0.6	+2.7			
50	0.5	+2.8			
(33)	0.4	+2.9			
	0.3	+3.0			
	0.3	+3.0			
	0.1	+3.2			
12 + 00	0.1	}			
	0.1				
	0.2	+3.1			
	0.1	+3.2			

P.X. ORIGINAL  
 X-SECTIONS OF DISPOSAL <sup>Induced</sup>  
 AREA ON TIERRA DEL FUEGO  
 ISLAND AT R 100

STA	+	H.I.	-	ELEV.
B.M.				11.39
	5.87	17.26		
TP.			11.20	6.06
	3.63	9.69		
T.B.M.			3.22	6.47
	2.56	9.03		
T 90				
W 20		4.8	4.2	
W 25		5.5	3.5	
W 38		5.6	3.4	
W 44		4.9	4.1	
W 160		4.6	4.4	
W 228		4.5	4.5	
W 234		5.0	4.0	
W 343		4.6	4.4	
W 443		4.5	4.5	
W 570		4.3	4.7	

P.X.  
 10-15-46

(38)

TOM STAMPER  
 GEO. WILLIAMS  
 FAIR-WARM

U.S.C. & G.S. COASTER

TOP OF 2X2" R 100 STA 90

STA	+	H.I.	-	ELEV
T 90		9.03		6.47
W 640			4.6	4.4
T 91	2.72	9.79		6.47
W 670			5.7	3.5
W 656			5.1	4.1
W 600			4.3	4.9
W 564			5.0	4.2
W 520			4.8	4.4
W 500			4.4	4.8
W 420			4.4	4.8
TP.		2.72		6.47

P.X.	10-17-46			
STA	+	H.I.	-	ELEV.
TBM	3.07	9.54		6.47
93			3.6	5.9
94			3.8	5.7
95			4.2	5.3
96			6.0	3.5
TP92		9.5		
W374			4.9	4.6
W458			4.7	4.8
W480			5.3	4.2
W510			5.3	4.2
W512			4.6	4.9
W665			5.0	4.5
W683			5.9	3.6
TP93	5.0	10.9		5.9
W703			7.1	3.8
W688			7.4	3.5
W660			6.6	4.2
W585			6.4	4.5
W440			6.3	4.6

P.X.					(39)
STA	+	H.I.	-	ELEV	
	4.9	10.6		5.7	
TP94					
W360			6.5	4.1	
W445			6.3	4.3	
W590			6.2	4.4	
W705			6.4	4.2	
W720			6.7	3.9	
TP95	4.8	10.1		5.3	
W733			6.1	4.0	
W712			5.6	4.5	
W690			6.0	4.1	
W680			5.7	4.4	
W610			5.6	4.5	
W490			5.7	4.4	
W372			5.8	4.3	
	4.5	9.80		5.3	100.00
TP	3.53	9.28	4.05	5.75	7.20
TP			3.97	5.31	92.80
					(520)
					190
					710

## P.X. X-SECTIONS ALONG R-92+90

STA	+	H.I.	-	ELEV
	3.32	8.63		5.31
TP	3.50	8.83	3.30	5.33
102			4.9	3.9
T101		8.83		
0			4.6	4.2
W 40			4.5	4.3
W 48			4.8	4.0
E 70			4.9	3.9
E 128			5.1	3.7
E 180			5.6	3.2
E 210			5.9	2.9
E 225			5.3	3.5
T102	4.5	8.4		3.9
E 294			5.2	3.2
E 275			4.7	3.7
E 133			4.6	3.8
E 32			4.3	4.1
W 43			4.8	3.6

Indexed

## P.X. X-SECTIONS ALONG R-100

STA	+	H.I.	-	ELEV
T93	4.9	10.8		5.9
E263			6.8	4.0
E346			7.2	3.6
E356			8.8	2.0
E350			7.7	3.1
T92	3.19	9.66		6.47
E345			6.4	3.3
E339			6.1	3.6
E320			5.4	4.3
E192			5.5	4.2
0			4.4	5.3
9/100			5.3	4.4
T91	5.0	9.4		4.4
E68			5.0	4.4
E118			5.2	4.2
E125			6.0	3.4
E164			4.2	3.2
E170			5.0	4.4
E280			5.0	4.4
E362			5.3	4.1
E368			5.9	3.5

(40)

LATH

LATH

LATH

P.X.	0+00 = R100			ELEV.
STA	+	H.I.	-	
	1.10	7.57		6.47
89			4.8	2.8
87			3.4	4.2
86			5.0	2.6
T89	4.8	7.6		2.8
W13			4.6	3.0
W30			3.5	4.1
W170			3.3	4.3
W363			3.3	4.3
W545			3.1	4.5
W610			3.3	4.3
W630			4.3	3.3
W686			4.9	2.7
W800			5.3	2.6
W685			4.7	2.9
T87	4.4	8.6		4.2
W715			8.9	-0.3
W650			5.8	+2.8
W620			4.9	+3.7
W602			5.4	+3.2

TOPOG.  
BNK. CHAN.

LATH

LATH

87 CONTD.				P.X.
STA	+	H.I.	-	(41)
		8.6		
W583			4.2	4.4
W510			4.6	4.0
W503			7.0	1.6
W485			5.2	3.4
W412			4.1	4.5
W272			4.2	4.9
W132			4.3	4.3
W35			4.6	4.0
W30			7.0	1.6
W16			6.8	1.8
W8			4.6	4.0
T86	4.2	6.8		2.6
W82			4.2	2.6
W135			4.0	2.8
W270			3.7	3.1
W398			3.7	3.1
W420			3.3	3.5
W580			2.3	4.5
W624			3.3	3.5
W650			5.3	1.5

P.X.	0+00. = E 100		
T 85	5.4	8.0	2.6
W 612			4.7 3.3 LATH
W 527			4.2 3.8
W 450			4.8 3.2
W 4.27			4.0 4.0
W 405			4.6 3.4
W 377			3.8 4.2
W 307			3.9 4.1
W 147			3.7 4.3
W 57			4.4 3.6
0			6.3 1.7
T 91	2.53	9.00	6.47
E 385			7.1 1.9
E 460			7.4 1.6
E 530			7.4 1.6
E 570			5.4 3.6
E 600			4.3 4.7
E 735			4.3 4.7
E 900			4.7 4.3
E 920			6.8 2.2
E 970			7.1 1.9

P.X.	STA	+	H.1	-	ELEV
T 91			9.0		
E 1020				5.1	3.9
E 1060				5.8	3.2
E 1200				5.9	3.1
T 92	4.8	10.1			5.3
E 1200				7.3	2.8
E 1090				7.5	2.6
E 1060				8.4	1.7
E 1020				8.1	2.0
E 1010				6.0	4.1
E 890				6.1	4.0
E 878				7.4	2.7
E 870				6.2	3.9
E 745				6.2	3.9
E 540				5.3	4.8
E 535				8.3	1.8
E 465				8.7	1.4
E 360				8.4	1.7

P.X.	0+00 - R 1.00			
STA	+	H. I	-	ELEV.
T 93	5.1	11.0		5.9
E 360			9.2	1.8
E 410			9.5	1.5
E 472			9.8	1.2
E 520			9.0	2.0
E 542			6.4	4.6
E 648			6.8	4.2
E 746			7.1	3.9
E 870			7.7	3.3
E 1063			8.1	2.9
E 1160			8.2	2.8
E 1140			9.4	1.6
E 1200			8.4	2.6
T.B.M.	1.88	8.35		6.47
84			8.1	0.2
83			4.9	3.4
81			6.2	2.1
80			6.4	1.9
79			6.2	2.1
78			6.0	2.3

P.X.					(43)
STA	+	H. I	-	ELEV.	
T 84	4.6	4.8		0.2	
W 110			3.2	1.6	
W 270	4.5	7.2	2.1	2.7	
W 338			3.9	3.3	
W 418			4.1	3.1	
W 586			3.6	3.6	
W 620			6.6	0.6	TOP OF BNK CHANNEL
T 83	5.0	8.4	<del>8.4</del>	3.4	
W 15			5.2	3.2	
W 60			7.0	1.4	
W 90			8.6	-0.2	
T 78	5.0	7.3		2.3	
W 100			5.8	1.5	
W 136			5.3		
W 190			5.8		
W 260			6.5	0.8	
W 345			6.9	0.4	



P.X.	STA	+	H.I	-	ELEV	
	T 79	4.4	6.5		2.1	
	W 390			6.3	0.2	ECHAN
	W 303			4.6	1.9	
	W 267			3.9	2.6	
	W 174			4.4	2.1	
	W 80			4.9	1.6	
	0			4.4	2.1	
	T 80	4.7	6.6		1.9	
	W 35			5.1	1.5	
	W 85			4.0	2.6	
	W 215			3.7	2.9	
	W 340			4.0	2.6	
	W 410			4.3	2.3	
	W 430			4.7	1.9	
	W 445			6.8	-0.2	
	T 81	4.4	6.5		2.1	
	W 460			7.4	-0.9	
	W 415			3.8	+2.7	
	W 230			3.6	+2.9	
	W 94			3.5	+3.0	

P.X.	STA	+	H.I	-	ELEV	(99)
	T 81		6.5			
	0			4.4	2.1	
	T 83	4.8	8.2		3.4	
	W 155			8.0	0.2	
	W 230			6.8	1.4	
	W 260			5.6	2.6	
	W 320			5.3	2.9	
	W 420			4.7	3.5	
	W 555			5.0	3.2	
	W 580			8.1	0.1	

P.X. 0700 = R 92+90

STA	+	H.1	-	ELEV
	4.2	8.1		3.9
103			4.6	3.5
104			7.1	1.0
105			4.2	3.9
T102	4.2	8.1		3.9
W42			4.5	3.6
W70			5.8	2.3
W170			7.4	0.7
W240			7.3	0.8
W258			6.0	2.1
W270			4.1	4.0
W338			4.9	3.7
W380			4.8	3.3
W422			5.3	2.8
T103	4.2	7.7		3.5
W422			4.4	3.3
W334			4.1	3.6
W250			4.1	3.6
W240			5.3	2.4
W230			6.3	1.4

P.X.

STA	+	H.1	-	ELEV
T103		7.7		
W220			6.5	1.2
W165			6.9	0.8
W130			6.9	0.8
W97			6.4	1.3
W54			4.8	2.9
W42			5.1	2.6
W12			4.1	3.6
E22			3.9	3.8
E110			4.1	3.6
E170			4.2	3.5
E210			4.5	3.2

(45)

10-22-46 0+00 = R 92+90 P.X.

STA	+	H.I.	-	ELEV.
T104	5.0	6.0		1.0
E 12			4.9	1.1
E 37			3.2	2.8
E. 86			2.8	3.2
E 110			3.3	2.7
E <del>175</del>			3.0	3.0
E 240			2.9	3.1
E 280			3.1	2.9
E 400			3.4	2.6
E 560			3.4	2.4
E 710			4.1	1.9
<u>TP.</u> W <u>240</u>			2.1	3.9
	4.5	8.3		
W 270			5.2	3.1
W 294			4.7	3.6
W 400			4.9	3.4

STA	+	H.I.	-	ELEV	P.X.
T105	4.3	8.2		3.9	(46)
W 422			4.6	3.6	
W 343			5.3	2.9	
W 330			5.4	2.8	
W 272			4.8	3.4	
W 226			4.9	3.3	
W 212			6.4	1.8	
W 174			6.7	1.5	
W 140			6.4	1.8	
W 76			5.6	2.6	
<u>W 32</u>			4.4	3.8	
<del>E 53</del>			4.4	3.8	
E 110			4.3	3.9	

P.X.	0+00 = R 92+90			
STA	+	H.I.	-	ELEV.
T 101	4.6	8.8		4.2
W 48			4.8	4.0
W 70			5.9	2.9
W 106			6.6	2.2
W 145			7.3	1.5
W 180			8.2	0.6
W 238			7.2	1.6
W 260			7.6	1.2
W 280			7.2	1.6
W 295			4.8	4.0
W 340			5.4	3.4
W 422			6.8	2.0
T 95	4.8	8.8		4.0
W 54			6.2	2.6
W 90			6.6	2.2
W 120			7.2	1.6
W 145			7.0	1.8
W 190			7.2	1.6
W 203			7.3	1.5
W 240			7.1	1.7

10-22-46		0+00 = R 92+90		P.X.
STA	+	H.I.	-	ELEV.
		8.8		(47)
W 314			6.8	2.0
W 327			7.3	1.5
W 340			9.9	-1.1
				CHANNEL
93		8.8	5.4	3.4
92			5.8	3.0
91			5.9	2.9
90			6.0	2.8
89			6.6	2.2
T 89	4.3	6.5		2.2
W 50			4.6	1.9
W 90			4.0	2.5
W 98			5.3	1.2
W 101			7.6	-1.1
				CHANNEL

P.X.	0+00 = R 92+90			
STA	+	H.I.	-	ELEV.
T 90	4.7	7.5		2.8
W142			8.0	-0.5 CHANNEL
W136			5.5	2.0
W126			4.7	2.8
W94			5.0	2.5
W75			5.3	2.2
W50			5.0	2.5
T 91	4.8	7.7		2.9
W60			5.4	2.3
W134			5.4	2.3
W160			5.3	2.4
W170			6.0	1.7
W186			7.5	0.2 CHANNEL
T 92	4.7	7.7		3.0
W 230			7.8	-0.1 CHANNEL
W 220			5.6	2.1
W174			5.2	2.5
W110			5.6	2.1
W62			5.7	2.0
W16			4.4	3.3

P.X.	0+00 = R 92+90			
STA	+	H.I.	-	ELEV.
193	4.5	7.9		3.4
W40			5.5	2.4
W94			6.4	1.5
W160			5.9	2.0
W242			6.0	1.9
W235			6.4	1.5
W270			7.9	0.0 CHANNEL

P.X.

(48)

11-15-46

CHECK SOUNDINGS OF

INDEXED

#17 SIDE SLOPES OF FILL AREA "C"

DIST	SOUND	DIST	SOUND
8.0	0.0 +4.9	70	13.0 - 8.1
10	0.4 +4.5	80	13.2 - 8.3
20	0.8 +4.1	90	14.2 - 9.3
30	1.0 +3.9	#16	
40	1.4 +3.5	13	0.0 + 4.9
50	1.7 +3.2	20	—
60	2.0 +2.9	30	1.4 + 3.5
70	2.1 +2.8	40	2.3 + 2.6
80	2.5 +2.4	50	2.8 + 2.1
90	3.0 +1.9	60	3.0 + 1.9
1+00	3.5 +1.4	70	3.0 + 1.9
10	5.9 -1.0	80	3.3 + 1.6
20	8.8 -3.9	90	3.5 + 1.4
30	9.2 -4.3	1+00	3.8 + 1.1
40	10.2 -5.3	10	3.9 + 1.0
50	11.1 -6.2	20	6.9 - 2.0
60	12.3 -7.4	30	8.1 - 3.2

11-15-46

(49)

DIST	SOUND	DIST	SOUND
40	11.2 - 6.2	50	12.9 - 7.9
50	11.3 - 6.3	60	12.9 - 7.9
60	11.8 - 6.8	70	13.0 - 8.0
70	12.0 - 7.0	80	13.0 - 8.0
80			
90			
#15		#13	
35	0.0 +5.0	47	0.0 +5.0
40	0.4 +4.6	50	0.4 +4.6
50	0.7 +4.3	60	1.1 +3.9
60	1.0 +4.0	70	2.0 +3.0
70	1.4 +3.6	80	2.9 +2.1
80	1.9 +3.1	90	3.2 +1.8
90	2.1 +2.9	1+00	3.8 +1.2
1+00	3.9 +1.1	10	6.5 -1.5
10	5.0 -0.0	20	9.0 -4.0
20	5.4 -0.4	30	10.2 -5.2
30	8.5 -3.5	40	12.9 -7.9
40	10.0 -5.0	50	13.2 -8.2
		60	13.1 -8.1

7-16-47  
 TOPOGRAPHIC FEATURES OF PROPOSED  
 LANDSCAPING OF SANTA CLARA PT.

*Indexed*

7-16-47

(50)

STA-	+	H.I.	-	ELEV		STA	+	H.I.	-	ELEV
B.M.	5.41	16.95		11.54	0+90 LAUNCHING RAMP 2X2 HUB	# 19		16.95	5.9	11.0
# 1			4.9	12.0	GROUND SHOTS	# 20			4.8	12.1
# 2			5.1	11.8		# 21			4.5	12.4
# 3			5.1	11.8		# 22			5.5	11.4
# 4			3.0	11.9		# 23			5.6	11.3
# 5			4.9	12.0		# 24			5.4	11.5
# 6			5.4	11.5		# 25			5.6	11.3
# 7			4.8	12.1		# 26			4.8	12.1
# 8			4.7	12.2		# 27			4.6	12.3
# 9			4.7	12.2		# 28			4.7	12.2
# 10			4.6	12.3		# 29			4.7	12.2
# 11			4.8	12.1		# 30			4.7	12.2
# 12			5.3	11.6		# 31			6.0	10.9
# 13			5.3	11.6		FLAG POLE			5.0	11.9
# 14			3.5	11.4		0+00 LAUNCHING RAMP			4.7	12.2
# 15			4.7	12.2		0+25			4.7	12.2
# 16			6.1	10.8		0+50			4.7	12.2
# 17			7.0	9.9		0+75			5.0	11.9
# 18			6.4	10.5		1+00			5.7	11.2

9-26-17

## SOUNDINGS AFTER SHOAL REMOVAL PROJECT # 8

Indexed

STA-89+00

0+00 = { R-102+30  
STA-89+00 }

SOUND WEST AT 90° TO R/L.

DIST	SOUND	DIST	SOUND
9+80	9.9	11+50	10.8
	10.2		10.8
19:00 10+00	11.0		10.8
	12.0		10.9
(3.2)	12.2		10.9
	12.2	12+00	10.8
	12.1		10.6
50	11.8	(3.2)	10.4
	11.4		10.2
	11.2		10.0
	11.0	50	10.6
	11.0		10.6
11+00	11.0		10.6
	10.8		10.8
	10.8	19:03 13+00	11.1
	11.0		11.5
		+10	12.0
		+20	12.0
		+30	12.5
		+40	12.8
		+50	12.7
11+40	11.0	13+60	12.8

SAME RANGE USED IN PLOTTING  
PREVIOUS SECTION OF STA-88+00

9-26-17

(51)

88+00

0+00 = { R-  
STA-88+00 } SOUND WEST AT 90° TO R/L.

DIST.	SOUND	DIST	SOUND
9+00	10.0	10+80	10.5
	10.0		10.5
14:20	10.5	11+60	10.3
	10.8		10.5
	10.9		10.5
50	10.5		10.7
	10.6	(3.3)	11.0
(3.3)	10.5	50	10.8
	10.5		10.8
	10.5		10.7
10+00	10.7		10.5
	11.0		10.5
	11.0	12+00	10.5
	11.0		10.5
	11.0		10.7
50	11.0		10.7
	11.0		11.0
10+70	10.8	12+50	11.0



9-26-77

87+00

$$0+00 = \begin{cases} R-103+30 \\ STA-87+00 \end{cases} \text{ SOUND WEST AT } 90^\circ \text{ TO } R/L.$$

DIST	SOUND	DIST	SOUND
10+00	10.7	11+80	10.6
	10.7		10.5
<u>14:35</u>	10.5	12+00	10.8
	10.6		10.8
	10.8		11.2
50	10.8		11.3
	10.8	(3.4)	11.0
(3.4)	10.5	50	11.3
	10.3		11.8
	10.3		11.8
11+00	10.9		11.9
	11.0		11.2
	11.0	13+00	11.0
	11.0		11.3
	10.8		11.5
50	10.5		11.8
	10.5	<u>14:38</u>	11.7
11+70	10.8	13+50	12.0

86+00

9-26-77

(52)

$$0+00 = \begin{cases} R-103+10 \\ STA-86+00 \end{cases} \text{ SOUND WEST AT } 90^\circ \text{ TO } R/L.$$

DIST	SOUND	DIST	SOUND
10+00	11.0	11+70	11.2
	10.8		11.0
<u>14:53</u>	11.0	12+00	11.0
	11.0		11.0
	10.8		11.3
50	10.8		11.5
	10.8	(3.6)	11.8
(3.6)	10.7	50	11.5
	10.7		11.7
	10.7		12.0
11+00	10.7		12.1
	10.6		12.0
	10.6	13+00	12.0
	10.6		12.0
	10.7		12.0
50	10.8		12.0
	11.0	<u>14:56</u>	11.5
11+60	11.1	13+50	11.0

85400

0400 =  $\left\{ \begin{array}{l} R-10400 \\ STA-85100 \end{array} \right\}$  SOUND WEST AT 90° TO R/L.

DIST	SOUND	DIST	SOUND
10400	11.0	11780	11.0
	11.0		11.0
<u>13:16</u>	11.0	12400	11.0
	11.0		10.8
	11.0		10.8
50	11.1		10.9
	11.4		11.1
(2.7)	11.5	50	11.2
	11.5	(2.7)	11.3
	11.2		11.3
11400	11.0		11.2
	10.5		11.1
	10.2	13400	11.2
	10.0		11.5
	10.5		12.1
50	10.8		12.2
	10.8	<u>15:20</u>	12.0
11470	11.0	13450	12.0
			12.0

Delayed

RECORD OF TOPSOIL PLACED  
ON PROJECTS NO. 6, #7 BY

J. HANSON CONSTRUCTION Co.

THURSDAY OCT 2, 1947

1-BULLDOZER & OPERATOR WORKED 8 HRS

ON BURM PREPARATION FOR TOPSOIL

APPLICATION ON WLY SIDE OF CAUSEWAY

ON MISSION BAY PROJ. NO. 7. 8:AM TO 4:30PM

FRIDAY OCT 3, 1947

1-DOZER & OPERATOR ON SAME JOB

7:30 AM TO 3:30 PM. 8: HRS @ \$7.00 PER HR.

MONDAY OCT 6, 1947

1-BULLDOZER & OPERATOR 7:30 AM TO 10:30 AM

OR A TOTAL OF 3 HRS FOR CITY.

DIRT TRUCKS STARTED HAULING

TOPSOIL ON PROJ NO 7 AT 7:45 A.M.

STOPPED AT 4: P.M.

A TOTAL OF 51- 5 YD LOADS  
FOR DAY

(59)

TUESDAY OCT 7, 1947.

TRUCK LOAD RECORD

TRUCK NO	5-YDS	9-YDS	NO LOADS	TOTAL
✓ 6	✓		<del>IIII</del> II ✓	17
✓ 7	✓		<del>IIII</del> II ✓	17
✓ 1		✓	<del>IIII</del> ✓	15
✓ 5	✓		<del>IIII</del> III ✓	14
✓ 2		✓	<del>IIII</del> II ✓	12
✓ 3		✓	<del>IIII</del> II ✓	15

42- 9-YD LOADS

48- 5-YD LOADS

42 X 9 = 378

48 X 5 = 240

TOTAL FOR DAY 618 YDS

WED. 8 OCT. 1947

TRUCK LOAD RECORD

TRUCK No	5 YDS	9 YDS	No. LOADS	TOTAL YDS
1	✓	✓	III III	90
3	✓	✓	III III III	135
7	✓	✓	III III III I	80
4	✓	✓	III III III	80
6	✓	✓	III III III	75
10	✓	✓	III III III	75
52	✓	✓	III III III	70
5	✓	✓	III III III	70
8	✓	✓	III II	35
9		7 YDS	III I	42

TOTAL YDS. TODAY 752

(55)

THURS. 9 OCT 1947

TRUCK LOAD RECORD

TRUCK No	5 YDS	9 YDS	No LOADS	TOTAL YDS.
7	✓	✓	III III III I	80
2	✓	✓	III III III	126
5	✓	✓	III III III	75
3	✓	✓	III III III	126
8	✓	✓	III III III	75
10	✓	✓	III III III	75
46	✓	✓	III III III	75
9	← 7 YD TRUCK	✓	III III III	98
4	5 YDS	✓	III III III	75
6	✓	✓	III III II	60

TOTAL YDS FOR DAY 865

FRI 10 OCT 1947

TRUCK LOAD RECORD

TRUCK No.	5 Yds	9 Yds	No. LOADS	TOTAL YDS
33	✓	✓	III III III	135
7	✓	✓	III III III	75
5	✓	✓	III III III	70
10	✓	✓	III III III II	85
2	✓	✓	III III III	135
4	✓	✓	III III III	70
9	← 7 YDS		III III III	105
46	5 YDS		III III III	75
8	✓	✓	III III III	75
65	✓	✓	III III III	75
52	✓	✓	III III III	65

TOTAL YDS FOR DAY 965

(56)

Mon 13 Oct. 1947

TRUCK LOAD RECORD

TRUCK No	5 YDS	9 YDS	No LOADS	TOTAL YDS
7	✓	✓	III III III	75
8	✓	✓	III III III	75
10	✓	✓	III III III	75
6	✓	✓	III III III	75
4	✓	✓	III III II	60
5	✓	✓	III III III	75
46	✓	✓	III III III	70
3	✓	✓	III III III	126
9	7 yds. Tons	✓	III III III	98
53	✓	✓	III III III	70
65	✓	✓	III III III	70
2	✓	✓	III III III	117

TOTAL YDS FOR DAY 986

TUE 14 OCT 1947

## TRUCK LOAD RECORD

TRUCK NO	5 YD	9 YD	No. LOADS	TOTAL YDS
5	✓			80
7	✓			80
8	✓			75
2		✓		108
9	7 yd truck			105
6	✓			75
4	✓			75
10	✓			80
3		✓		135
54	✓			65
52	✓			75
65	✓			75

TOTAL FOR DAY 1028

WED 15 OCT. 1947

(57)

## TRUCK LOAD RECORD

TRUCK NO	5 YD	9 YD	No. LOADS	TOTAL YDS
7	✓			80
5	✓			90
3		✓		144
2		✓		81
8	✓			80
10	✓			85
6	✓			85
4	✓			80
65	✓			80
87	✓			80
9	7 yd Truck			105
24		✓		144
32	✓			75
33	✓			75
31		✓		54

PT LOMA SHOVEL STARTS 6 HRS

TOTAL FOR DAY 1338

TOTAL TO DATE: 6552

THURS. 16 OCT 1947

TRUCK LOAD RECORD

TRUCK No	5 Yds	9 Yds	No. LOADS	TOTAL YDS
3		✓	III	117
4	✓		II	85
8	✓		II	85
23		✓	II	153
24		✓	II	153
5	✓		II	85
9	7 yd. Truck		I	112
10	✓		III	90
65	✓		19	95
73	✓		II	60
2		✓	II	63
6	✓		18	90
7	✓		18	90
87	✓		17	85
32	✓		17	85

1ST DAY 255 YDS

TOTAL FOR DAY 1498  
 TOTAL TO DATE  $\frac{6552}{8000}$

FRI. 17 OCT. 1947

TRUCK LOAD RECORD

TRUCK No	5 Yds	9 Yds	No. LOADS	TOTAL YDS
31		✓	III	135
2		✓	III	81
3		✓	III	126
24		✓	I	144
9	7 yd. truck		III	105
8	✓		III	75
10	✓		I	80
5	✓		I	80
52	✓		III	75
47	✓		16	80
32	✓		14	70
6	✓		17	85
87	✓		17	85
65	✓		16	80
7	✓		9	45

TOTAL FOR DAY 1346  
 TOTAL TO DATE  $\frac{825}{9601}$

MON 20. OCT 1947

TRUCK LOAD RECORD

TRUCK No	5 YD	9 YD	No. LOADS	TOTAL YDS
✓ 7	✓			70
✓ 10	✓			70
✓ 5	✓			70
✓ 4	✓			70
✓ 6	✓			70

TOTAL FOR DAY 350

TOTAL TO DATE 9601

9951

PT LIMA ONLY

(59)

TUES. 21 OCT 1947

TRUCK LOAD RECORD

TRUCK No	5 YD	9 YD	No. LOADS	TOTAL YDS
✓ 5	✓			10
✓ 4	✓			10
✓ 7	✓			10
✓ 6	✓			10
✓ 10	✓			10

PT LIMA ONLY 8:30 AM TOTAL FOR DAY 50

9951

TOTAL 10001



TOP SOIL MON. 15 DEC 1947

TRUCK LOAD RECORD

TRUCK No	5 YD	9 YD	NO. LOADS	TOTAL YDS.
✓ 8	✓			55
✓ 7	✓			55
✓ 24		✓		36
✓ 23		✓		90
6	✓			50
✓ 10	✓			50
✓ 4	✓			40
✓ 22	✓			55
2		✓		<u>99</u>

TOTAL FOR DAY 530  
4476

TOTAL TO DATE 5006

TUES. 25 NOV. 1947

TRUCK LOAD RECORD

TRUCK No.	5 YD	9 YD	NO LOADS	TOTAL YDS.
7	✓			90
5	✓			90
8	✓			85
24		✓		153
23		✓		153
4	<del>✓</del>			85
6	✓			85
2		✓		135
10	✓			5

TOTAL FOR DAY 881

*Indexed*

WED 26 NOV 1947

TRUCK LOAD RECORD

TRUCK No.	5 YD	9 YD	No. LOADS	TOTAL YDS
7	✓		XXIIII	80
10	✓		XXIIII	80
24		✓	XXIIII	144
23		✓	XXIIII	144
4	✓		XXIIII	75
2		✓	XXIIII	126
8	✓		XXIIII	75
22	✓		XXIIII	80
6	✓		XXIIII	65
5	✓		III	30

TOTAL FOR DAY 899

TOTAL TO DATE 1780

MON. 1 DEC. 1947

TRUCK LOAD RECORD

TRUCK No	5 YD	9 YD	No. LOADS	TOTAL YDS
10	✓		III	30
7	✓		III	30
23		✓	III	27
24		✓	III	45
8	✓		III	25
22	✓		III	30
5	✓		III	25
4	✓		III	25
6	✓		III	25
2		✓	III	45

TOTAL FOR DAY 307

TOTAL TO DATE 3108

~~23 + EXTRA LOAD~~

FRI 28 Nov. 1947

TRUCK LOAD RECORD

TRUCK No	5 YD	9 YD	No LOADS	TOTAL YDS
8	✓		16	80
4	✓		15	75
5	✓		17	85
10	✓		17	85
29		✓	16	144
7	✓		17	85
6	✓		17	85
22	✓		17	85
2		✓	16	144
23		✓	17	153

TOTAL FOR DAY 1021

WED 3 DEC 47

TRUCK LOAD RECORD

TRUCK No	5 YD	9 YD	No LOADS	TOTAL YDS.
4	✓	65	16	75
24	✓	✓ 126	16	135
5	✓	70	16	75
23		✓ 125	16	144
22	✓	65	16	75
8	✓	60	16	70
7	✓	60	16	75
2		✓ 108	16	117
6	✓	60	16	70
10	✓	56	16	60

799 TOTAL FOR DAY 896  
PREVIOUS 3108

TOTAL TO DATE 4004

TOP SOIL MON 8 DEC 1947

TRUCK LOAD RECORD

TRUCK No	5 YD	9 YD	No LOADS	TOTAL YDS.
4	✓	XXXX	XXXXXX	75
5	✓	XXXX	XXXXXX	70
6	✓	XXXX	XXXXXX	75
7	✓	XXXX	XXXXXX	75
22	✓		XXXXXX	75
23		✓	XXXXXX	126
24		✓	XXXXXX	135
TOTAL FOR DAY				631

TOP SOIL TUES 9 DEC 1947

(63)

TRUCK LOAD RECORD

TRUCK No	5 YD	7 YD	No LOADS	TOTAL YDS.
4	✓	XXXX	XXXXXX	85
7	✓	XXXX	XXXXXX	85
5	✓	XXXX	XXXXXX	85
6	✓	XXXX	XXXXXX	85
24		XXXX	XXXXXX	153
23		✓	XXXXXX	153
8	✓	XXXX	XXXXXX	80
22	✓		XXXXXX	85
1		✓	XXXXXX	135
TOTAL FOR DAY				946
				631
TOTAL TO DATE				1577

TOP SOIL WED 10 DEC 1947

TRUCK LOAD RECORD

TRUCK No	5 YD	9 YD	NO. LOADS	TOTAL YDS
✓ 7	✓	X X X		85
✓ 6	✓	X X X X X		80
8	✓	X X X X X		85
5	✓	X X X X X		80
23		✓ X X X		144
24		✓ X X X		63
✓ 22	✓	X X X X X		85
1		✓ X X X X		144
4	✓	X X X X X		75
✓ 10	✓	X X X X X		80
31		✓ X X X		63

TOTAL FOR DAY 984

1577

TOTAL TO DATE 2561

TOP SOIL THURS 11 DEC 1947

(64)

TRUCK LOAD RECORD

TRUCK No	5 YD	9 YD	NO. LOADS	TOTAL YDS
✓ 7	✓	X X X		90
✓ 5	✓	X X X		60
✓ 10	✓	X X X X X		90
✓ 8	✓	X X X X X		85
✓ 24		✓ X X X		153
22	✓	X X X X X		85
✓ 6	✓	X X X X X		85
✓ 23		✓ X X X X		153
✓ 4	✓	X X X X X		85
✓ 2		✓ X X X X		108

TOTAL FOR DAY 994

2561

TOTAL TO DATE 3555

TOP SOIL FRI. 12 DEC 1947

TRUCK LOAD RECORD

TRUCK No	5 Yd.	9 Yd.	No. LOADS	TOTAL Yds.
10	✓		<del>    </del>	85
✓ 7	✓		<del>    </del>	80
✓ 24		✓	<del>    </del>	153
23		✓	<del>    </del>	153
✓ 22	✓		<del>    </del>	85
✓ 6	✓		<del>    </del>	75
✓ 4	✓		<del>    </del>	80
✓ 2		✓	<del>    </del>	135
✓ 8	✓		<del>    </del>	75

TOTAL FOR DAY 921  
3555

TOTAL TO DATE 4476

SEE PAGE 60

100

94

88

82

76

70

180  
108  
45  
333

1000  
3555  
425  
313  
112  
15  
2  
15

TABLE IX.—CALCULATION OF EARTHWORK.

Width	HEIGHT														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.02	.04	.06	.07	.09	.11	.13	.15	.17	.18	.20	.22	.24	.26	.28
2	.04	.07	.11	.15	.18	.22	.26	.30	.33	.37	.41	.44	.48	.52	.56
3	.06	.11	.17	.22	.28	.33	.39	.44	.50	.56	.61	.67	.72	.78	.83
4	.07	.15	.22	.30	.37	.44	.52	.59	.67	.74	.81	.89	.96	1.04	1.11
5	.09	.19	.28	.37	.46	.56	.65	.74	.83	.93	1.02	1.11	1.20	1.30	1.39
6	.11	.22	.33	.44	.56	.67	.78	.89	1.00	1.11	1.22	1.33	1.44	1.55	1.67
7	.13	.26	.39	.52	.65	.78	.91	1.04	1.16	1.30	1.42	1.55	1.68	1.81	1.94
8	.15	.30	.44	.59	.74	.89	1.04	1.19	1.33	1.48	1.63	1.78	1.92	2.08	2.22
9	.17	.33	.50	.67	.83	1.00	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33	2.50
10	.18	.37	.56	.74	.93	1.11	1.30	1.48	1.67	1.85	2.04	2.22	2.41	2.59	2.78
11	.20	.41	.61	.82	1.02	1.22	1.43	1.63	1.83	2.04	2.24	2.44	2.65	2.85	3.06
12	.22	.44	.67	.89	1.11	1.33	1.56	1.78	2.00	2.22	2.44	2.67	2.89	3.11	3.33
13	.24	.48	.72	.96	1.20	1.44	1.68	1.92	2.16	2.41	2.65	2.89	3.13	3.37	3.61
14	.26	.52	.78	1.04	1.30	1.55	1.81	2.08	2.33	2.59	2.85	3.11	3.37	3.63	3.89
15	.28	.56	.83	1.11	1.39	1.67	1.94	2.22	2.50	2.78	3.06	3.33	3.61	3.89	4.17
16	.30	.59	.89	1.18	1.48	1.78	2.07	2.37	2.67	2.96	3.26	3.56	3.85	4.15	4.44
17	.31	.63	.94	1.26	1.57	1.89	2.20	2.52	2.83	3.15	3.46	3.78	4.09	4.41	4.72
18	.33	.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.33	4.67	5.00
19	.35	.70	1.06	1.41	1.76	2.11	2.46	2.82	3.17	3.52	3.87	4.22	4.57	4.92	5.28
20	.37	.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70	4.07	4.44	4.81	5.18	5.56
21	.39	.78	1.17	1.55	1.94	2.33	2.72	3.11	3.50	3.89	4.28	4.67	5.06	5.44	5.83
22	.41	.81	1.22	1.63	2.04	2.44	2.85	3.26	3.67	4.07	4.48	4.89	5.30	5.70	6.11
23	.43	.85	1.28	1.70	2.13	2.56	2.98	3.41	3.83	4.26	4.68	5.11	5.54	5.96	6.39
24	.44	.89	1.33	1.78	2.22	2.67	3.11	3.56	4.00	4.44	4.89	5.33	5.78	6.22	6.67
25	.46	.92	1.39	1.85	2.31	2.78	3.24	3.70	4.17	4.63	5.09	5.56	6.02	6.48	6.94
26	.48	.96	1.44	1.92	2.41	2.89	3.37	3.85	4.33	4.82	5.30	5.78	6.26	6.74	7.24
27	.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
28	.52	1.04	1.55	2.07	2.59	3.11	3.63	4.15	4.67	5.18	5.70	6.22	6.74	7.26	7.78
29	.54	1.07	1.61	2.15	2.68	3.22	3.76	4.30	4.83	5.37	5.91	6.44	6.98	7.52	8.06
30	.56	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00	5.55	6.11	6.67	7.22	7.78	8.33
31	.57	1.15	1.72	2.30	2.87	3.44	4.02	4.59	5.17	5.74	6.32	6.89	7.46	8.04	8.61
32	.59	1.18	1.78	2.37	2.96	3.56	4.15	4.74	5.33	5.92	6.52	7.11	7.70	8.30	8.89
33	.61	1.22	1.83	2.44	3.05	3.67	4.28	4.89	5.50	6.11	6.72	7.33	7.94	8.55	9.17
34	.63	1.26	1.89	2.52	3.15	3.78	4.40	5.04	5.67	6.29	6.93	7.56	8.18	8.81	9.44
35	.65	1.30	1.94	2.59	3.24	3.89	4.53	5.18	5.83	6.48	7.13	7.78	8.42	9.08	9.72
36	.67	1.33	2.00	2.67	3.33	4.00	4.66	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00
37	.68	1.37	2.06	2.74	3.42	4.11	4.79	5.48	6.17	6.85	7.54	8.22	8.91	9.59	10.28
38	.70	1.41	2.11	2.82	3.52	4.22	4.92	5.63	6.33	7.03	7.74	8.44	9.15	9.85	10.56
39	.72	1.44	2.17	2.89	3.61	4.33	5.05	5.78	6.50	7.22	7.95	8.67	9.39	10.11	10.83
40	.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.67	7.41	8.15	8.89	9.63	10.37	11.11

Table gives cu. yds. in 1 ft. of a triangle of given width and height. Corrections for tenths of width are one tenth the values found under each height considering the widths from 1 to 9 as tenths and similarly the corrections for tenths of height are one tenth the figures opposite width considering the heights from 1 to 9 as tenths. Thus if  $w = 16.2$  and  $h = 5.3$ , cu. yds.  $= 1.48 + .028 + .089 = 1.597$  cu. yds. or practically 160 cu. yds. per 100 ft. If  $w$  exceeds 40 ft., use one half and multiply result by 2, if both  $w$  and  $h$  are large use one half of each and multiply result by 4. Any cross-section may be divided into triangles by the following rule. To the triangle of the sum of the outside cuts (or fills)  $=h$ , and  $\frac{1}{2}$  the roadbed  $=w$ , add the triangles formed by taking the distance out to each break in turn ( $=w$ 's) by the difference between the cuts (or fills) on each side of it ( $=h$ 's) always subtracting the outer from the inner.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on  $1\frac{1}{2}$ .  
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be  $41.9 + (20 - 16) \cdot 2$  or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.