

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 6  
 LINE No.(s) 20 PARTY No. 154 DATE 15 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN WEATHER: Fair P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1													See page 2 Line 4	
2													TR SP18 Line 45	
3	S	1353		+00.33				4.0	-13.0	-2.0	282.8	1	275.0	
4														
5	S	33		+02.40				4.0		-5.5	277.3	-	SP19 SP19 AS Line	
6														
7	N	1287		-00.25				4.0		-13.4	269.4	-	SP20 Line 45	
8														
9														
10		0		-				1.5 5.2		-1.5	(281.3)	X	SP23 + 800 Line 72	
11													Target 50.13	
12													PIPE HAZ 2.6	
13	N	800		+01.21				4.0		+1.4	297.6	-	SP23	
14														
15	E	520		-00.30				4.0		-8.5	274.3	0	SP4 266.5	
16														
17														
18														
19														
20														

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 5  
 LINE No.(s) 70 PARTY No. 1184 DATE 15 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR Stone RODMAN WEATHER: Clear P.T.S. No.

LINE	Bearing of Sight	Slope Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1										167.7		Δ	SP7	159.4	
2	W	2040		+0036			C		4.0	+23.6	191.3		SP8		
3															
4	W	1250		-0008			C		4.0	-7.1	160.6		SP9		
5															
6				-			C		5.5	-5.5	162.2		X SP10		
7															
8	E	1320		-0011			C		4.0	-8.2	159.5		○ SP11	151.7	
9	W	435		-0056			C		4.0	+11.3	230.8		Δ	L 223.0	
10															
11	N	2815		-0124			C		4.0	-72.8	158.0		SP12		
12															
13	N	1485		-0244			C		4.0	-74.7	156.1		SP13		
14															
15	N	165		-0400			C		4.0	-15.5	215.3		SP14		
16															
17	E	1155		+0016			C		4.0	+1.4	232.2		SP15		
18															
19	E	165.0		+0055			C		4.0	+22.4	253.2		○ SP15 + A95	243.4	
20															

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 3  
 LINE No.(s) 70 PARTY No. 1184 DATE 15 Day 4 Mo. 75 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.			
1											278.4				
2															
3		1850		+00 27		C			+10.9		289.3		16		
4		1800		+00 40		C			+21.0		299.4		15		
5	N	2010		+00 43		C			+26.9		305.3		Sp 14		
6	W	2640		+00 44		C			+31.8		310.2		Sp 13		
7	E	1700		-00 25		C		+2.0	+16.4	326.6					
8															
9						C			-5.5		221.4		Sp 7		
10															
11	N	1700		-00 14		C			-10.1		316.5		Tail	Nest Elev 70	
12															
13															
14															
15															
16															
17															
18															
19															
20															

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 4  
 LINE No.(s) 70 PARTY No. 1184 DATE 15 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2															
3															
4															
5															
6	NX	825		-0057		C			4.0	+32.1	306.4		Δ	298.6	
7															
8	E	495		+0048		C			4.0	+2.9			SP5		
9															
10	E	825		+0037		C			2.0	+6.9			SP5	284.8	
11	W	1650		+0007		C			+2.0	-1.4	311.9		Δ	159.9	
12															
13	W	825		-0013		C			4.0	-7.1			SP6		
14															
15	E	495		-0146		C			4.0	-19.3			SP7	284.8	
16	W	3960		+0152		C			4.0	-124.9	167.7		Δ	159.9	
17															
18															
19															
20															

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AREA NPP-4 STATE or PROVINCE ALASKA PAGE No. 2  
 LINE No.(s) 70 PARTY No. 184 DATE 15 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2			<i>Ref Page 1 BOOK 4 Line 13</i>								297.6				<del>TKSP30</del> TKSP3-70
3	E	825		-01 10		C		+4.6	+20.8	318.4		A			
4															
5	N	495		+00 03		C		4.0	-3.6		314.8		sp2		
6	E	495		+00 43		C		+4.0	-2.2	312.6		A			
7															
8	W	825		-02 10		C		4.0	-35.2		277.4		sp1		TOP SP stake
9															PIPE Set At
10															this point
11															W- PIPE 3.7
12	E	1165		+00 09		C		+4.0	+1.0	278.4		A			E Target 5.0
13		990		-00 17		C		2.0	-6.9		271.5		sp24		
14		660		-01 20		C		2.0	-17.4		261.0		23		
15		530		-01 43		C		2.0	-11.9		266.5		22		
16		0		-		C		5.5	-5.5		272.9		X 21		
17		330		-00 27		C		2.0	-4.6		273.8		20		
18		660		-00 25		C		2.0	-6.8		271.6		19		
19		990		+00 02		C		2.0	-1.4		277.0		18		
20		1320		+00 15		C		2.0	+3.8		282.2		17		

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AREA NRR-4 STATE or PROVINCE ALASKA PAGE No. 64  
 LINE No.(s) 70 PARTY No. 184 DATE 15 Day 4 Mo. 75 Yr. BOOK No. A  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1												253.2	0	SP15 +495	243.4	
2																
3																
4	W	660		-00 45		C		+4.0		+12.6	265.8		A		258.0	
5																
6	E	165		-00 45		C		5.0		-7.2		258.6		SP16 100.0	E target 5.0	
7																
8	E	1485		-00 53		C		4.0		-26.9		238.9		SP17		
9																
10	E	2805		-00 09		C		4.0		-11.3		254.5	0	SP18	246.7	
11	W-E	3135		-01 15		C		+4.0		+72.4	326.9		A		319.1	
12																
13	N-E	1815		-01 36		C		4.0		-54.7		272.2		SP19		
14																
15	W-E	495		-02 34		C		4.0		-26.1		300.8		SP20		
16																
17	E-W	825		+00 36		C		4.0		+4.6		331.5		SP21		
18																
19	E-W	8990		+00 36		C		4.0		+6.4		333.3	0	SP22 +116	325.5	
20																

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AREA NPR-A STATE or PROVINCE ALASKA PAGE No. 7  
 LINE No.(s) 70 PARTY No. 1184 DATE 14 Day 4 Mo 25 Yr. BOOK No. 4  
 SURVEYOR D. STONE RODMAN \_\_\_\_\_ WEATHER: Windy P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction				INST.	ROD			
1																
2												333.3	0	SP21 +165	325.5	
3																
4																
5	W	1155		-0° 27		C		4.0		+6.4	339.7		A		331.7	
6	W	495		+01 40	+00.18	C		5.0		-2.4		337.3	-	SP21 +825	N2-362 & Target	
7		0		-		C		5.4		-5.4		334.3	X	SP22		
8																
9	E	165		-01 46		C		2.0		-7.1		332.6	0	SP22 +165	324.8	
10	W	15495		+01 18		C		2.0		-24.2	308.4		A		300.1	
11																
12		0				C		5.5		-5.5		302.9	X	SP23		
13																
14	E	1320		+00 08		C		4.0		-0.9		307.5		SP24		
15																
16	E	2640		+00 24		C		5.0		+13.4		321.8	0	SP25 +90.0	N2- 314.0	
17	N	495		+00 23		C		5.0		+1.7	323.56		A		& Target 5.0 315.7	
18																
19	E	825		-01 36		C		4.0		-27.0		296.5	0	SP26	288.7	
20																

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 8  
 LINE No.(s) 90 70? PARTY No. 1184 DATE 14 Day 7 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN - WEATHER: Good P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1												296.5	0	SP26	288.7	
2	N	2825		+00.11		C		+4.0		-5.0	291.5		A		283.7	
3																
4	N	1485		-0053		C		4.0		-26.9		264.6		SP27		
5																
6	N	165		-01.02		C		4.0		-7.0		284.5		SP28		
7																
8	E	1155		-01.02		C		4.0		-24.8		266.7		SP29		
9																
10	E	2475		-0017		C		4.0		-16.2		275.3		SP30		
11																
12	E	2970	-			C		4.0		-4.0		287.5	0	SP30 +495	279.7	
13	W	825	-			C		+4.0		+4.0	291.5		A		283.7	
14																
15		0				C		5.4		-5.4		286.1	T	SP31		
16																
17	E	1320		-0043		C		4.0		-20.5		271.0		SP32		
18																
19	E	2640		-0027		C		4.0		-24.7		266.8	0	SP33	259.0	
20																

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 9  
 LINE No.(s) 70? PARTY No. 1184 DATE 14 Day 4 Mo. 15 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN WEATHER: Windy, Blowing Conditions P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											266.8	0	SP33	259.0	
2	N	2640		-00 29		C		+4.0	+26.3	293.4		A		285.3	
3	W	1320		-02 35		C		4.0	-63.4		229.7		SP34		
4															
5		0	-			C		5.5	-5.5		287.6		X SP35		
6															
7	E	025		+02 24		C		4.0	+30.5		223.6	0	SP35 1825	315.9	
8	W	465		-01 34		C		+4.0	+17.5	341.1		A		333.3	
9															
10						C		5.4	-5.4		335.7	X	SP36 100.0 N2-361	Target 50	
11															
12	E	1020		+00 04		C		4.0	-2.5		258.6	0	SP37	330.8	
13	W	1320		+00 02		C		+4.0	+3.2	341.8		A		334.0	
14															
15						C		5.0	-5.0		336.8	X	SP38		
16															
17	E	1320		+00 07		C		4.0	-1.3		340.5		SP39		
18															
19	E	2640		+00 11		C		5.0	+3.4		345.2	0	SP40 100.0 N2-360	Target 5.0	
20															

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LINE 45 Ret BOOK 4 page 48 Line 14  
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 SP 40 line 90 common SP 253  
 2nd SP 253 349.1 LINE 45 LINE 30 HI pipe 314

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 10  
 LINE No.(s) 70 PARTY No. 184 DATE 17 Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Duda RODMAN --- WEATHER: SUNNY CLEAR P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1											345.2	○	SP 40 (N2-360)	337A
2	W	1320		89 54 22	0.0538			+0.0	-1.9	343.3		Δ	<del>SP 40 (N2-360)</del>	339.5
3				270 04 16	0.0416							Δ		
4		0						-5.6	-5.6		337.7	π	SP 41 (N2-369)	
5														
6	E	1320		90 30 42	0.3040			+4.0	-16.1		327.2	○	SP 42	319A
7				249 27 48	0.3212									
8	W	495		89 30 13				+4.0	-0.3	326.9		Δ		319.1
9														
10		0						-5.5			321.4	π	SP 42+495	
11														
12	E	2145		92 03 58				-4.0	-81.3		245.6	○	SP 44	227B
13														
14	W	635		91 25 46				+4.0	+19.8	265A		Δ		257.6
15	W	1830		90 21				-4.0	-15.2		250.2	SS	SP 43 (Hole SET 125' E)	
16		0						-5.2	-5.2		260.2	π	SP 44+635	
17														
18	F	520		94 02				-6.0	-42.5		222.9		SP 45 (Hole SET 165' W)	
19													Elev. stat @ Hole	
20	E	2005		90 40 52				-4.0	-27.8		237.6	○	SP 46	229.8

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AREA NPR-4 STATE OR PROVINCE ALASKA PAGE No. 11  
 LINE No.(s) 70 PARTY No. 184 DATE 17 Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Darda RODMAN \_\_\_\_\_ WEATHER: SUNNY, CLEAR P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1																
2												237.6	0	SP	46	229.3
3	<u>W 2640</u>	<u>2640</u>		<u>90 50 10</u>				<u>+4.0</u>		<u>+42.5</u>	<u>280.1</u>		<u>A</u>			272.3
4																
5	<u>W</u>	<u>1320</u>		<u>94 10</u>				<u>-4.0</u>		<u>-96.9</u>		<u>1832</u>		<u>SP</u>	<u>47</u>	
6																
7		<u>0</u>		<u>—</u>				<u>-5.8</u>		<u>-5.8</u>		<u>274.3</u>	<u>K</u>	<u>SP</u>	<u>48</u>	
8																
9	<u>E</u>	<u>495</u>		<u>87 48 06</u>				<u>-2.6</u>		<u>+16.4</u>		<u>296.5</u>	<u>0</u>	<u>SP</u>	<u>48 + 495</u>	<u>288.7</u>
10																
11	<u>W</u>	<u>825</u>		<u>91 04 59</u>				<u>+6.0</u>		<u>+21.6</u>	<u>318.1</u>		<u>A</u>			<u>310.3</u>
12																
13		<u>0</u>		<u>—</u>				<u>-5.9</u>		<u>-5.9</u>		<u>313.2</u>	<u>K</u>	<u>SP</u>	<u>49 (N2-370)</u>	
14																
15	<u>E</u>	<u>2640</u>		<u>89 54 50</u>				<u>-4.0</u>		<u>± 0.0</u>		<u>318.1</u>	<u>0</u>	<u>SP</u>	<u>51</u>	<u>310.3</u>
16																
17	<u>W</u>	<u>495</u>		<u>92 14 15</u>				<u>+4.0</u>		<u>+23.3</u>	<u>341.4</u>		<u>A</u>			<u>335.2</u>
18																
19	<u>W</u>	<u>1815</u>		<u>90 59</u>				<u>-4.0</u>		<u>-35.1</u>		<u>306.3</u>	<u>SS</u>	<u>SP</u>	<u>50</u>	
20		<u>0</u>		<u>—</u>				<u>-5.3</u>					<u>K</u>	<u>SP</u>	<u>51 + 495</u>	

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 12  
 LINE No.(s) 70 PARTY No. 184 DATE 17 Day 4 Mo. 75 Yr. BOOK No. 7  
 SURVEYOR D. Duedal RODMAN — WEATHER: SUNNY, CLEAR P.T.S. No. —

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												341.4				333.6
2	E	825		89 30 32					-4.0	+3.1		344.5 0		SP	52 (N2-371)	336.7
3																
4	W	<del>3960</del> 3960		89 51 25					+6.0	-3.9	340.6		Δ		TOP 6' TARGET	332.9
5																
6	W	2640		90 07 -					-4.0	-9.4		331.2		SP	53	
7																
8	W	1320		91 17 -					-4.0	-33.6		307.0		SP	54	
9																
10		0		—					-5.8	-5.8		334.8	π	SP	55	
11																
12	E	495		89 20 22					-2.0	+3.7		344.3 0		SP	55+495	336.5
13																
14	W	825		90 18 25					+2.5	+6.9	351.2		Δ			343.4
15																
16		0		—					-6.7	-6.7		344.5 0 π		SP	56 N2-372	336.7
17																
18	W	2640		89 32 10					+5.0	-16.4	328.1		Δ			320.3
19																
20																

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*G. Mann*

2nd *RD*



AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 13  
 LINE No.(s) 70 PARTY No. 184 DATE 17 Day 7 Mo. 75 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Dussal RODMAN \_\_\_\_\_ WEATHER: SUNNY P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												328.1				320.3
2	W	1320		89 34 -					-4.0	+2.1		330.2		SP	57	
3																
4		0		—					-5.6	-5.6		322.5	T	SP	58	
5																
6	E	1320		89 05 -					-4.0	+17.1		345.1		SP	59	
7																342.0
8	E	1815		89 09 29					-5.0	+21.7		349.8	⊙	SP	59+495(12-873)	
9																
10		0		—					+5.6	+5.8	355.6		A			347.8
11																
12	E	825		90 21 00					-4.0	-9.0		346.6	⊙	SP	60	338.8
13																
14	W	2145		89 17 57					+4.0	-22.3	324.3		A			316.5
15																
16	W	825		89 33 -					-4.0	+2.5		326.8		SP	61	
17																
18		0		—					-5.9	-5.9				T	SP	61+825
19																
20	E	495		91 29 26					-4.0	-16.9		307.4	⊙	SP	62	299.6

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AREA NPR-4 STATE or PROVINCE Illinois PAGE No. 14  
 LINE No.(s) 70 PARTY No. 184 DATE 10 Day 43 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR J. Duddal RODMAN — WEATHER: Sunny; 61-68 P.T.S. No. —

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.			
1															
2															
3	W	3465		87 40 32				+6.0	-134.4	173.0		157.4	SP	62 279.6	
4														Top 6' TARGET 165.2	
5	W	214		89 25 -				-4.0	+17.8			190.8	SP	63	
6															
7	W	825		90 30 -				-4.0	-11.2			161.8	SP	64	
8															
9		0						-5.1	-5.1				K	SP 64+825	
10															
11	E	4.95		90 02				-4.0	-4.3			168.7	SP	65	
12															
13	E	1815		90 00 -				-4.0	-4.0			169.0	SP	66	
14															
15	E	3135		89 57 24				-4.0	-1.6			171.4	SP	67 163.6	
16															
17	W	2740		92 03 10				+4.0	+102.1	273.5				265.7	
18															
19	W	1420		94 05 -				-4.0	-105.9			168.4	SP	68	
20															

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AREA NPR-4 STATE OR PROVINCE \_\_\_\_\_ PAGE No. 15  
 LINE No.(s) 70 PARTY No. 184 DATE \_\_\_\_\_ Mo. 25 Yr. BOOK No. 3  
 SURVEYOR D. Dussal RODMAN \_\_\_\_\_ WEATHER \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												273.5				265.7
2		0							-5.4	-5.4		268.1	π	SP	69+100	
3																
4	E	1220		8816	-				-4.0	+32.9		306.4		SP	70	
5																
6	E	2045		87 39 00					-1.6	+82.2		355.7	0	SP	70+825	342.9
7																
8	W	990		90 30 59					+5.1	+14.0		369.7		A		361.9
9																
10	W	495		90 23	-				-4.0	-7.3		362.4		SP	71	
11																
12		0							-5.8	-5.8				π	SP	71+495
13																
14	E	825		90 4	-				-4.0	-6.6		363.4		SP	72	
15																
16	E	2145							-4.0	-12.4		357.3	0	SP	73	349.5
17																
18	W	2145		90 5					+6.0	+38.2		395.5		A		Top of TARGET 397.7
19																
20	W	825		90 8					-4.0	-7.7		378.8		SP	74	

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 16  
 LINE No.(s) 70 PARTY No. 184 DATE 18 Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Duda RODMAN \_\_\_\_\_ WEATHER: SUNNY P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadio Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											395.5			387.7	
2		0											SP	74+825	
3															
4	E	495		90 08 -				-4.0	-5.2		390.3		SP	75	
5															
6	E	1815		90 02.54				-4.0	-5.5		390.0	0	SP	76 382.2	
7															
8	W	240		90 52 38				+4.0	+44.4	434.4		A		426.6	
9															
10	W	1320		91 56				-4.0	-48.5		385.9		SP	77	
11															
12		0						-6.2	-6.2		428.2	T	SP	78	
13															
14	E	132.0		89 08 -				-4.0	+16.0		450.4		SP	79	
15															
16	E	1815		89 01.57				-4.5	+29.1		463.5	0	SP	79+495 455.7	
17															
18	W	560		90 32 59				+1.5	+7.0	470.5		A		462.7	
19															
20															

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 17  
 LINE No.(s) 70 PARTY No. 187 DATE 18 Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Dardal RODMAN — WEATHER: Clear, Sunny P.T.S. No. —

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1												470.5				462.7
2		0		—					-5.8	-5.8		464.7	π	SP	79 + 1055 (N2-374)	
3																
4	E	265		91 05 07					-4.0	-9.0		461.5	0	SP	80	452.7
5																
6	W	2440		88 39 12					+4.0	-58.0		403.5	Δ			492.7
7																
8	W	1320		88 59 —					-4.0	+19.4		422.9		SP	81	
9																
10		0		—					-6.2	-6.2		397.3	π	SP	82 (N2-375)	
11																
12	E	13		87 33 15					-4.0	+6.3		409.8	0	SP	83 (N2-376)	400.0
13																
14				89 56 42					+5.0	+4.2		414.0	Δ			402.7
15																
16		0		—					-6.9	-5.9			π	SP	83 + 825	
17																
18		1495		91 43 —					-4.0	-18.8		395.2		SP	84	
19																
20	E	1815		91 26 27					-4.0	-49.6		364.4	0	SP	85	356.6

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AREA NR-4 DATE or PROVINCE ALABAMA PAGE No. 18  
 LINE No.(s) 70 PARTY No. 10 DATE 10 Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. DUNDAL RODMAN D. JENSEN WEATHER: SUNNY P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1																356.6
2												364.4	0	SP	85	
3	W	5135		90 59 15				+4.0		+58.0	422.4		A			414.6
4																
5	W	1815		92 34 -				-4.0		-85.2		337.2		SP	86	
6																
7	W	495		92 30 -				-4.0		-25.6		396.8		SP	87	389.0
8																
9		0		---				-5.5		-5.5		416.9	π	SP	87+495	
10																
11	E	330		90 01 53				-5.0		-5.2		417.2	0	SP	87+825 = 112-277 <sup>Out</sup> = 112-825 <sub>4024</sub>	
12																
13		0		---				-5.7		+5.7	422.9		π			415.1
14																
15	E	495		91 24 -				-4.0		-16.1		406.8		SP	88	
16																
17	E	1815		90 18 16				-4.0		-13.6		409.3	0	SP	89	401.5
18																
19	W	825		89 16 55				+4.0		-6.3	403.0		A			395.2
20																

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AREA NPR-4 STATE or PROVINCE MISSISSIPPI PAGE No. 19  
 LINE No.(s) 70 PARTY No. 184 DATE 1/19/55 Mo. 25 Yr. BOOK No. 3  
 SURVEYOR D. Darda RODMAN D. JENSEN WEATHER: SUNNY P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												403.0				395.2
2		0												π	SP	89+825
3																
4	E	495		92 15 -				-4.0		-23.4		379.6		SP	90	
5																
6	E	1815		92 06 -				-4.0		-70.5		332.5		SP	91	
7																
8	E	3135		91 36 15				-4.0		-91.7		311.3	0	SP	92	303.5
9																
10	W	1815		91 15 58				+4.0		+44.1	355.4		A			347.6
11																
12	W	495		93 59 -				-6.0		-40.3		315.1		SP	93	Top 619
13																
14		0		<del>88 54</del>				-5.6		-5.6				π	SP	93+495
15																
16	E	825		88 54 47				-9.0		+6.8		362.2	0	SP	94	354.4
17																
18	W	1155		89 44 44				+4.0		-1.1	361.1		A			353.3
19																
20																

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 20  
 LINE No.(s) 70 PARTY No. 184 DATE 19 Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Deibel RODMAN D. JENSEN WEATHER: SUNNY, CLEAR P.T.S. No. 1

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												361.1				353.7
2	X	# 0		—					-5.8	-5.8				K	SP	94+11.55
3																
4	E	165		92 09 -					-4.0	-10.2		350.9		SP	95	
5																
6	E	148.5		92 31 -					-4.0	-69.1		292.0		SP	96	
7																
8	E	280.5		89 41 -					-4.0	+11.5		372.6		SP	97	
9																367.8
10	E	330		89 39 39					-5.0	+14.5		375.6	0	SP	97+11.55 ( <del>97+11.5</del> )	
11																
12	W	1650		89 34 38					+5.0	-7.2	368.4					360.6
13																
14	W	825		89 34 -					-4.0	+2.2		370.6		SP	98	
15																
16				—					-5.7	-5.7				K	SP	98+11.25
17																
18	E	495		91 54 -					-4.0	-20.4		348.0		SP	99	
19																
20																

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L. Jensen

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 21  
 LINE No.(s) 70 PARTY No. 184 DATE 19 Day 4 Mo. 25 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. D. Dardel RODMAN D. Jensen WEATHER: SUNNY, CLEAR P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												368.4				360.6
2	E	181.5		90 49 22				+4.0		-30.1		338.3	0	SP 100		330.5
3																
4	W	495		92 52 31				+4.0		+28.8		367.1	A			359.3
5																
6		0		—				-5.0		-5.3			π	SP 100+495		
7																
8	E	825		90 21 —				-4.0		-9.0		358.1		SP 101		
9																
10	E	2145		89 17 —				-4.0		+22.8		389.9	*	SP 102		
11																
12		3465		89 12 46				-4.0		+43.6		410.7	0	SP 103		402.9
13	W	1320		90 18 49				+4.0	+4.0	+11.2		421.9	B			414.1
14	W	1320		90 18 49				+4.0								
15																
16		0		—				+5.7		+5.7		416.2	π	SP 103+12-378		
17																
18	E	1320		90 30 44				-15.0		-26.5		395.4	0	SP 105		387.6
19																
20																

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 22  
 LINE No.(s) 70 PARTY No. 184 DATE 19 Day 4 Mo. 25 Yr. BOOK No. 3  
 SURVEYOR D. Duxdal RODMAN D. JENSEN WEATHER: SUNNY, CLEAR P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																387.6
2	W	2640		89 20 34					+4.0	-26.3	369.1	395.4	0	SP	105	361.3
3																
4	W	1320		89 35 -					-4.0	+5.6		374.7		SP	106	
5																
6		0							-5.5	-5.5		363.6		SP	107	
7																
8	E	1320		90 21 -					-4.0	-12.1		357.0		SP	108	
9																
10		2640		90 07 -					-4.0	-9.4		359.7		SP	109	
11																342.9
12		2640		91 09 39					-5.0	-18.4		350.7		<del>SP 110 10 29</del>		
13													0	SP	110 10 29 (N2-379)	
14		0							+5.7	+5.7	356.4					348.6
15																
16	E	495		90 56 -					-4.0	-12.1		344.3		SP	111	
17																
18	E	1815		89 32 -					-4.0	+10.8		367.2		SP	112	
19																362.7
20	E	1980		89 26 49					-5.0	+14.1		370.5	0	SP	112 165 (N2-380)	

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 23  
 LINE No.(s) 70 PARTY No. 184 DATE 19 Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Duschak RODMAN D. JOHNSON WEATHER: Sunny, Clear P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR. VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																362.7
2		<u>0</u>										<u>370.5</u>	<u>0</u>	<u>SP</u>	<u>112+165 (N2-380)</u>	
3		<u>0</u>		<u>90 01 04</u>					<u>+5.0</u>	<u>+5.4</u>	<u>375.9</u>		<u>0</u>	<u>SP</u>		<u>368.1</u>
4																
5	<u>E</u>	<u>1155</u>		<u>90 01 04</u>					<u>-4.0</u>	<u>-4.4</u>		<u>371.5</u>	<u>0</u>	<u>SP</u>	<u>113</u>	<u>363.7</u>
6																
7	<u>W</u>	<u>3265</u>		<u>89 19 37</u>					<u>+4.0</u>	<u>-34.4</u>	<u>337.1</u>		<u>0</u>	<u>SP</u>		<u>329.3</u>
8																
9	<u>W</u>	<u>1945</u>		<u>89 52</u>					<u>+4.0</u>	<u>+0.5</u>		<u>337.6</u>		<u>SP</u>	<u>114</u>	
10																
11	<u>W</u>	<u>625</u>		<u>94 18</u>					<u>-4.0</u>	<u>-50.9</u>		<u>286.2</u>		<u>SP</u>	<u>115</u>	
12																
13		<u>0</u>							<u>-6.2</u>	<u>-6.2</u>				<u>SP</u>	<u>115 + 625</u>	
14	<u>E</u>	<u>695</u>		<u>88 28</u>					<u>-4.0</u>	<u>+14.6</u>		<u>351.7</u>		<u>SP</u>	<u>116</u>	
15																
16	<u>E</u>	<u>1190</u>		<u>88 25 00</u>					<u>-5.0</u>	<u>+27.9</u>		<u>365.0</u>	<u>0</u>	<u>SP</u>	<u>116 + 493</u>	<u>357.2</u>
17																
18	<u>W</u>	<u>2970</u>		<u>89 54 10</u>					<u>+6.0</u>	<u>+1.0</u>	<u>366.0</u>		<u>0</u>	<u>SP</u>		<u>358.2</u>
19																
20																

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 24  
 LINE No.(s) 70 PARTY No. 184 DATE 19 Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Dusdal RODMAN D. JENSEN WEATHER: SUNNY, CLEAR P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												366.0	327.1			358.2
2	W	2145		9056-					-4.0	-38.9			<del>337.1</del>	SP	117	
3																
4	W	825		9140-					-4.0	-28.0			338.0	SP	118	
5																
6		0		—					+5.9	-5.9				π	SP	118+825
7																
8	E	<del>1145</del> 1145		8907-					-4.0	+11.3			377.3	SP	119	
9																388.3
10	E	<del>1320</del> 1815		885135					-6.0	+30.1			396.1	⊙	SP	119+825 (W2-381)
11																
12		0		—					+7.0	+7.0	403.1			Δ		395.3
13																
14	F	495		902507					-4.0	-7.6			395.5	⊙	SP	120 387.7
15																
16																
17																
18																
19																
20																

The distance between SP118 + SP119 is 1815' A  
 Long spread of 495'

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 25  
 LINE No.(s) 70 PARTY No. 184 DATE 20 Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Dunsdal RODMAN B. BADEL WEATHER: SWAMP, CLEAR P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.			
1															387.7
2											395.5	⊙	SP	120	
3	W	825		89 25 54				+4.0		-1.8	393.7	A			385.9
4															
5		0		—				-5.6				π	SP	120+825	
6															
7	E	495		92 46 —				-4.0		-27.9	365.8		SP	121	
8															
9	E	1845		91 25 41				-4.0		-49.2	344.4	⊙	SP	122	336.7
10															
11	W	3135		91 18 21				+11.0		+82.4	426.9	Δ			419.1
12															
13	W	1815		91 20 —				-4.0		-46.2	380.7		SP	123	
14															
15	W	495		91 46 —				-4.0		-19.3	407.6		SP	124	
16											405.6				Ref. Line 3x-19.2
17		0		—				-5.7			411.2	+ 2.0	π	SP	124+495
18															
19	E	825		89 13 03				-4.0		+7.3	434.2	⊙	SP	125	426.4
20															

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AREA WPR-4 STATE or PROVINCE ALABAMA PAGE No. 26  
 LINE No.(s) 70 PARTY No. 189 DATE 20 Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Duda RODMAN G. BROEN WEATHER: SUNNY, CLEAR 70° P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																426.4
2												434.2	0	SP	125	
3	W	495			90 10.05			+4.0		+5.5	439.7		A			431.9
4		0			—											426.1
5					—			-5.8		-5.8		433.9	T	SP	125+495(N2-382)	
6																
7	E	825			90 35.53			-4.0		-12.6		427.1		SP	126	
8																
9	E	2145			90 25—			-4.0		-19.6		420.1	0	SP	127	412.3
10																
11	<del>E</del>	<del>3445</del>			<del>90 19.19</del>			<del>-7.0</del>								Note SP 128 127.9 426.1
12		5610										433.9				405.6
13	W	<del>825</del>			89 44.23			<del>-4.0</del> +5.0		-20.5	413.4		A	SP	125+495(N2-382)	
14																
15	W	1815			89 46—			-16.0		-8.6		404.8	S.S.	SP	128	
16	W	825			89 40—			-4.0		+0.8		414.2		SP	129	
17		0			—			-6.4		-6.4			T	SP	129+825	
18																
19	E	495			91 35—			-4.0		-17.4		396.0		SP	130	
20																

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AREA NPR-4 STATE or PROVINCE MISSOURI PAGE No. 27  
 LINE No.(s) 70 PARTY No. 184 DATE Feb Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Durdal RODMAN B. BADEM WEATHER: Cloudy 61-62 P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												413.1A				405.6
2	E	1815		91 22					-4.0		-47.3	366.1		SP	131	
3																
4	E	3135		91 20 32					-4.0		-77.4	336.0	0	SP	132	328.2
5																
6	W	1320		89 30 13					+4.0		-5.1	330.9		A		323.1
7																
8		0							-6.6			324.3	T	SP	133	
9																
10	E	1320		90 47					-4.0		-22.0	308.9		SP	134	
11																
12	E	2640		90 21 47					-4.0		-20.7	310.2	0	SP	135	302.4
13																
14	W	825		92 38 37					+4.0		+42.0	352.8		A		344A
15																
16		0							-6.0					T	SP	135+825
17																
18	E	495		89 28					-4.0		+0.6	353.4		SP	136	
19																
20																

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 28  
 LINE No.(s) 70 PARTY No. 184 DATE 20 Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Duda RODMAN B. BADEN WEATHER: SUNNY, CLEAR P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											352.1 B			344A	
2	E	1815		89 38 -				-4.0	+9.7		361.90		SP 137	354.1	
3															
4	<del>E</del>	<del>5135</del>		<del>89 19 22</del>				<del>-4.0</del>					<del>SP 138</del>		
5															
6	W	1815		90 02 48				+4.0	+5.5		367.4		SP 137	359.6	
7															
8	W	495		94 54 -				-4.0	-46.1		321.3		SP 138		
9															
10		0		—				-6.1					SP 138 + 49.5		
11															
12	E	825		87 26 19				-4.0	+32.8		400.2		SP 139	392.4	
13															
14	W	1320		91 32 37				+10.0	+47.1		447.3			439.5	
15															
16		0		—				-5.4			442.9		SP 140		
17															
18	E	1155		90 01 15				-5.0	-5.4		441.9		SP 140 + 1155 (No. 383)	439.1	
19															
20															

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 29  
 LINE No.(s) 70 PARTY No. 184 DATE 20 Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Duda RODMAN B. BADEN WEATHER: SUNNY, CLEAR P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1																434.1
2												441.9	0	SP	140+1155 (N2-302)	
3		0						+6.1		+6.1	448.0		<del>441.9</del>			440.2
4																
5	E	165		91 10-				-4.0		-7.4		440.6		SP	141	
6																
7	E	1485		91 04 47				-5.0		-33.0		415.0	0	SP	142 (N2-384)	Out 407.2
8																
9		0						+5.8		+5.8	420.8		<del>415.0</del>	SP	142	413.0
10																
11	E	1320		90 59-				-4.0		-26.6		392.2		SP	143	
12								-20.0								
13	E	2640		91 05-				<del>4.0</del>		-69.9		350.9	<del>0</del>	SP	144	
14																
15	E	3960		91 02 20				-9.0		-80.8		346.0	0	SP	145	332.2
16																
17																
18																
19																
20																

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 30  
 LINE No.(s) 70 PARTY No. 184 DATE 23 Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Durdal RODMAN \_\_\_\_\_ WEATHER: Cloudy, S. Breeze P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1																
2	W	7095		89 31 07				15.0		-54.6	360.4	415.0	0	SP	142 (NZ-384) 277.6	
3																
4	W	1815		90 25 -				-4.0		-17.2		343.2		SP	146	
5																
6	W	495		92 27 -				-4.0		-25.1		335.3		SP	147	
7																
8		0						-6.2				354.2	π	SP	147 + 495	
9																
10	E	2145		90 12 -				-4.0		-11.5		340.9		SP	149	
11																
12	E	3165		89 31 32				-4.0		+24.7		381.5	0	SP	150 302.3	
13																
14				<del>88 41 5</del>				<del>+4.0</del>					0	<del>SP 150</del>		
15	E	2200		88 41 5				+4.0		-44.0	346.1		Δ		258.3	
16	<del>E</del>															
17		0						-5.7				335.4	π	SP	148 + 440	
18																
19	W	440		97 24 18				-4.0		-60.2		280.9	SS	SP	148	
20																

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AREA NPA-4STATE or PROVINCE ALASKAPAGE No. 31LINE No(s) 70PARTY No. 184DATE 23Day 4Mo. 75Yr. BOOK No. 3SURVEYOR D. DudaRODMAN       WEATHER: OVERCAST, SNOWINGP.T.S. No.       

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											385.1				
2												0	SP	150	
3	W	1815		92 01 55						+68.3	453.4	A			370.6
4															
5	W	495		92 00						-21.3	432.1		SP	151	
6															
7		0									447.6	T	SP	151+495	
8															
9	E	825		89 34						+2.2	455.6		SP	152	
10															
11	E	990		89 34 42						+2.3	455.7	0	SP	152+165 (152-305)	372.9
12															
13	W	3300		90 03 25						+8.3	464.0	A			381.2
14															
15	W	2145		90 05						-15.1	448.9		SP	153	
16															
17	W	825		90 03						-4.7	459.3		SP	154	
18															
19		0									459.0		T	SP 154+825	
20															

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 32  
 LINE No.(s) 70 PARTY No. 184 DATE 73 Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Dussal RODMAN --- WEATHER: Snowy P.T.S. No. ---

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.		
1											464.0			381.2
2	E	495		90 54 -						-4.0	-11.8	452.2	SP	155
3														
4	E	1815		90 55 -						-4.0	-33.0	431.0	SP	156
5														
6	E	3135		90 43 27						-4.0	-43.8	420.2	0	SP 157 337.4
7														
8	W	1815		89 59 45						+4.0	+3.9	424.1	A	341.3
9														
10	W	495		90 30 -						-4.0	-8.3	415.8	SP	158
11														
12		0		---									π	SP 158 +495
13														
14	E	825		90 28						-4.0	-10.7	413.4	SP	159
15		3465												
16	E	2145		90 48						-4.0	-25.0	399.1	0	SP 160 161 316.3
17	W	495		90 27						+4.0	+26.1	425.2	A	342.4
18														
19	W	1815		92 14						-4.0	-74.7	350.5	SS	SP 160
20		0		---						-5.8			π	SP 161 +495

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 33  
 LINE No.(s) 70 PARTY No. 181 DATE 23 Day 4 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Dussdal RODMAN \_\_\_\_\_ WEATHER: SNOWING P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Reqd	Reading	Correc-tion			Center Hair	INST.			
1											425.2			342.4	
2	E	825		88 59 08				-4.0	+10.6		435.86		SP	162	
3															
4	E	2145		88 55 -				-4.0	+36.5		461.7		SP	163	
5														+02.0	
6	E	3300		88 52 44				-5.0	+59.6		491.8	D	SP	163+1155 (N2-386)	
7															
8											458.77	D	SP	152+165 (N2-385) 372.9	
9	W	1550		90 06 19				+5.0	+36°	491.7		A		408.9	
10				249 52 34	-0 06 53										
11															
12		0						-5.8	-5.8				T	SP 163+1155 (N2-386)	
13															
14	E	330		90 26 09				-3.0	-3.0		486.1	D	SP	164+165 (N2-387) 403.3	
15				269 22 55	-0 26 17										
16															
17															
18															
19															
20															

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 37  
 LINE No.(s) 70 PARTY No. 184 DATE 24 Day 4 Mo. 25 Yr. BOOK No. 3  
 SURVEYOR D. Dussal RODMAN R. WEATHER: Sunny P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair.	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD		
1															403.3
2		0						15.8		+5.8	491.9		SP	164+165 (NL-307)	409.1
3															
4	E	1155		9120-				-4.0		-30.9	461.0		SP	165	
5															
6	E	2475		9111-				-4.0		-55.1	436.8		SP	166	
7															
8	E	3795		9108-				-4.0		-79.0	412.9		SP	167	
9															
10	E	4115		9105 53					To TOP of + .2 PIPE	-79.1	SEE 411.85	0	SP	167+825	387 330.0
11									ABOVE PIPE		NOTE 407.2				NO-358
12		0								+6.0	413.6 (G.L.)		SP	167+825	
13															
14	E	495		8950-				-4.0		-2.6	411.0		SP	168	
15															
16	E	1815		8828-				-4.0		+44.5	458.1		SP	169	
17															
18	E	2310		8831 54				-5.0		+54.2	462.8	0	SP	169+495 (NL-309)	
19															
20															

NOTE: REFERENCE LINE SIXS Book 3 Page 1 Line 2, Page 3 Line 2

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 35  
 LINE No.(s) 70 PARTY No. 184 DATE 4 Day 24 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR D. Dusdal RODMAN R. KUNZEL WEATHER: SUNNY P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1														
2		0						+6.1		473.9			1691495 (N2-389)	
3														
4	E	825		90 43 06				-5.0	-15.3	458.6	0	SP	170	
5														
6	W	2640		89 17 33				+4.0	-28.6	430.0		A		
7														
8	W	1320		89 56 -				-4.0	-2.5	427.5		SP	171	
9														
10		0						-5.6		424.4	π	SP	172	
11														
12	E	1320		91 19 55				-4.0	-34.7	395.3	0	SP	173	
13														
14	W	2400		90 49 49				+4.0	+39.9	435.2		A		
15														
16	W	1150		89 37 -				-14.0	-87.4	347.8		SP	174	
17														
18								-6.0			π	SP	174+1155	
19														
20	E	495		89 20 12				-0.0	+5.7	440.9	0	SP	175 (N2-390)	

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 36  
 LINE No.(s) 70 PARTY No. 184 DATE 24 Day 4 Mo. 25 Yr. BOOK No. 3  
 SURVEYOR D. P. S. d. al. RODMAN R. R. 26612 WEATHER: SUNNY P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2		0							+3.4	1000 PVE	+3.4	444.3	440.9	SP	125 (N2-390)	
3																
4	E	495		90 10-					-3.0		-1.6		442.7	#2	TAIL SPREAD	
5		<del>1155</del>							-15.0							
6	E	1155		90 12-					<del>15.0</del>		-19.0		425.3	#4	TAIL SPREAD	
7																
8	E	1815		90 12-					-9.0		-15.3		489.0	#6	TAIL SPREAD	
9																
10	E	2475		89 00-					-4.0		+39.2		483.5	#8	TAIL SPREAD	
11																
12	E	3485		88 23 27					-5.0		+92.3		536.6	#11	TAIL SPREAD (N2-391)	
13																
14	W	2310		88 18					+5.0		+39.5	576.1				
15		0														
16	E	<del>990</del> 990		88 53 40					-2.0		+17.1		593.2	#20	TAIL SPREAD	
17	W	330		91 55 32					+2.0		+13.1	606.3				
18		0							-5.8				600.5			
19																
20	E	600		98 05 07					-2.0		-2.6		603.7	#		

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