

STADIA SURVEY NOTES

AREA Zone A NPR-4 STATE or PROVINCE ALASKA PAGE No. 164
 LINE No. 19 PARTY No. 184 DATE 25 Day 4 Mo. 74 Yr. BOOK No. 1
 SURVEYOR C. Ray RODMAN _____ WEATHER: Cloud Clear P.T.S. No. 0012

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														
3														
4	NW	0							+4.1	+4.1	20.1		A	
5	Distance by	57.894	90 06 48		-06 46				-4.2	-15.2		9.9	O	AT CARU
6	H.P. meter		269 53 40		-06 20				-4.2					
7	SE	4987.46	90 03 53		-03 59				+4.2	+9.6	14.5		A	
8	SE		269 56 21		-03 39								CK	
9	N	2640	90 10 42						-4.0	-12.2		2.3		SP1
10	N	1320							-4.0			10.5		SP2
11									-4.3			10.2		SP3
12	S	1320	90 12 28						-4.0	-8.8		5.7		SP4
13	S	2640	90 06 29						-4.0	-8.9		5.6		SP5
14			269 53 46										CK	
15	N	2640	90 01 11		-01 51				+4.0	+4.7	10.3		A	
16		1320	269 59 52		00 20				+4.0				CK	
17	N	1320	90 01 20						-4.0	-4.5		5.8		SP6
18		0							-5.0			5.3		SP7
19	S	1320	90 09 41						-4.0	-5.8		4.5		SP8
20	S	2640	89 56 48		16				-4.0	-1.4		8.9		SP9

TI-588B 270 03 36

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STADIA SURVEY NOTES

AREA Zone A NPR-4 STATE or PROVINCE Alaska PAGE No. 165
 LINE No.(s) 19 PARTY No. 184 DATE 25 Day 4 Mo. 74 Yr. BOOK No. 1
 SURVEYOR C. Ray RODMAN _____ WEATHER: Cold Clear P.T.S. No. 1012

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															
2	N	1320		90 12 11	-12 11			+4.0	} +8.6'	17.5	8.9	(0)			
3		+		269 48 18	-11 42									(A)	
4		-0-		-	-			-4.1	} -4.1		13.4	-	SP-10	N. 2-163	
5	S	1320		90 02 04				-4.0					12.7	-	SP-11
6	S	2640		90 07 36	07 36			-4.0	} -9.6'		7.9	(0)	SP-12		
7		B		269 53 03	-6 57										(CK)
8	N	2640		90 01 50	01 50			+4.0	} +5.1	13.0		(A)			
9				269 52 54	01 06			" "							(CK)
10	N	1320		90 03 53				-4.0	} -5.5		7.5	-	SP-13		
11		0		-	-			-5.0					8.0	-	SP-14
12	S	1320		90 08 00				-4.0	} -5.2		7.8	-	SP-15		
13	S	2640		89 51 02	08 58			-4.0					16.1	(0)	SP-16
14				270 09 39	09 39				} +3.1				(CK)		
15	N	2275		90 05 30	05 30			+4.0					24.1	(A)	
16				269 54 15	05 45			" "	} +8.0'				(CK)		
17	N	1155		90 05 32				-4.0					18.2	-	SP-17
18		0		-	-			-4.1	} -4.1		20.0	-	SP-18	N 2-164	
19	S	165		91 05 29				-4.0					17.0	-	SP-18
20	S	1485		90 16 22				-4.0	} -11.1		13.0	-	SP-19		
		2505		90 18 22				-4.0					8.0	-	SP-20

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STADIA SURVEY NOTES

AREA Zone A N.P.R.-4 STATE or PROVINCE A/25KA PAGE No. 166
 LINE No.(s) 19 PARTY No. 184 DATE 26 Day 4 Mo. 70 Yr. BOOK No. 1
 SURVEYOR C. Kay RODMAN WEATHER: Cold 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	Correc-tion			Center Hair	INST.			
1											24.1				
2	S	2805	90 13 14	13 14				-4.0	} 11.7						
3			269 47 06	12 57							-9.4			SP-20	
4	N	3960	90 11 38	11 38			+4.0	+4.0	+121	2.15					
5			269 48 57	11 08			+4.0								
6	N	2240	90 15 48				-4.0		-14.3		7.2		SP-21		
7	N	1820	90 21 16				-4.0		-14.2		9.3		SP-22		
8		0	-				-5.0				16.5		SP-23		
9	S	1820	90 06 43				-4.0		-6.6		14.9		SP-24		
10	S	2640	90 01 13	01 13			-4.0		-4.7		16.8		SP-25		
11			269 53 26	00 20											
12															
13															
14											14.9		SP-24		
15		0	-				+4.3		+4.3	19.2					
16	E	320	-				-0.7		-0.7		18.5		SP-15	Line 13	
17									From Party 184		12.4				
18															
19															
20															

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STADIA SURVEY NOTES

AREA Zone A NPR-4 STATE or PROVINCE ALASKA PAGE No. 167
 LINE No.(s) 19 PARTY No. 184 DATE 25 Day 4 Mo. 74 Yr. BOOK No. 1
 SURVEYOR C. Ray RODMAN _____ WEATHER: Cold Clear P.T.S. No. _____

0012

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.			ROD
1															
2	N 2640	9007		90 01 46		01 46		+4.0	} +5.1'	21.9	16.8	(A)	SP-25		
3				265 57 58	58 55'	01 55'		+4.0					2A		
4	N 1320	1320		90 05 47				-4.0							
5		0		-				-5.0							
6		1320		90 03 43				-4.0							
7	S 2640	2640		89 57 00		09 00		-4.0	} +3.1'		15.7	-	SP-26		
8				270 05 29		09 29						16.9	-	SP-287	
9	N 495	495		90 05 51		05 51		+4.0	} +4.9'	29.9	16.5	-	SP-28B		
10				268 53 50		04 10							25.0	(A)	SP-30 29
11	E -0-			-				-4.8							
12	H.P. Meter	3784.75		89 58 50		01 50		-3.9	} -2.7'		25.1	-	N2-166		
13				270 01 01		01 01						27.2	(A)	A TAKTU	
14															
15	W 3784.75							+3.9							
16		825		90 23 47				-4.0							
17		2148		90 17 00				-4.0							
18				265 42 34		17 00		" "							
19	N 2640	2640		89 52 10		07 50		+4.0							
20				270 07 40											

USE → 26.0 (CR) GOVT. VALUE

TAKE OFF A TAKTU

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STADIA SURVEY NOTES

AREA Zona A NPR-4 STATE or PROVINCE ALASKA PAGE No. 168

LINE No.(s) 19 PARTY No. 184 DATE 25 Day 4 Mo. 74 Yr. BOOK No. 1

SURVEYOR C. Ray RODMAN _____ WEATHER: Cold Clear P.T.S. No. _____

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LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2	N	1320		895722				-4.0	-3.8		12.1	8.3	-	SP 32	
3		0-		-				-5.0				7.8	-	SP 33	
4	S	1320		894358	1602			-4.0	+2.1			14.2	0	SP 34	
5				27015 97										CK	
6	N	2640		895555	455			+4.0	+0.9		15.1			A	
7				2703 52	03 52									CK	
8	N	1320		895859				-4.0	-3.6			11.5	-	SP 35	
9		0		-				-4.4				10.7	-	SP 36	N 2-167
10	S	1320		901917				-4.0	-11.4			3.7	-	SP 37	
11	S	2640		900730	0730			-4.0	-9.8			5.3	0	SP 38	
12				269 52 31	07-29									CK	
13	N	2266		901455	1456			+4.0	+13.9		19.2			A	
14				269 44 56	15 09									CK	
15	N	946		903437				-4.0	-19.5			5.7	-	SP 39	
16		0		-				-4.5				18.7	-	N 2-168 SK. 20	
17	S	37X		914906				-4.0	-15.9			3.3	-	SP 40	
18	S	1694		902234				-4.0	-15.1			3.1	-	SP 41	
19	S	1014		901240	12-40			-4.0	-15.1			4.1	0	SP 42	
20				269 44 56	07 14	12 00								CK	

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STADIA SURVEY NOTES

AREA Zone A NPP-4 STATE or PROVINCE Idaho PAGE No. 169
 LINE No.(s) 19 PARTY No. 184 DATE 25 Day 4 Mo. 74 Yr. BOOK No. -1
 SURVEYOR C. Ray RODMAN _____ WEATHER: cold P.T.S. No. Uo12

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	N	3199		90 19 40	19 40			+4.0	(+22.4)	26.5	4.1			
3				269 40 09	19 51			"						
4	N	1878		90 36 32				-4.0	-24.0		2.5		SP-43	
5	N	558		91 10 52				-4.0	-15.5		11.0		SP-44	
6		0						-4.4			2.2		NE-169 SKipped	
7	S	762		90 24 16				-4.0	-9.4		17.1		SP-45	SP-46 Level with
8	S	3420		90 14 03				-4.0	-14.0		12.5		SP-46 47	SP-47
9	S	3658		90 05 50	09 44			-0.0	-10.4		16.1		Line Inter	NE-170
10				265 50 19	09 41			-0.0					CK	Top of Pipe L-19-L18
11		0						+1.5		17.4				
12	W	217		92 19 58				-4.0	-12.8		4.8		SP-46	Line 18
13				89 5										
14														
15											16.1		Line Inter	
16		895140		89 51 40	08 30			+0.0	(-5.7)	10.4				
17	N	2384		270 08 06	08 26								CK	
18	N	1320		89 59 17				-4.0	-3.7		6.7		SP-48	
19		0						-7.5			5.9		SP-49	
20	S	1320		89 59 27				-4.0	-3.8		6.6		SP-50	

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STADIA SURVEY NOTES

AREA Zone A NPR-4 STATE or PROVINCE Alaska PAGE No. 170

LINE No.(s) 19 PARTY No. 184 DATE 25 Day 4 Mo. 7d Yr. BOOK No. 1

SURVEYOR C. Ray RODMAN _____ WEATHER: Cold P.T.S. No. 1012

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											10.4					
2	S	2640		8943-03	90-57			-4.0	}	+9.0		19.4	(A)	SP.51		
3				270 17 02	17.02										(C)	
4	N	3135		90 15 18	15-18			+4.0	}	+78.0	37.4		(A)			
5				269 44 34	15-26										(C)	
6	N	1815		90 26 21				-4.0		-17.9		19.5	-	SP.52		
7	N	495		90 46 44				-4.0		-10.7		26.7	-	SP.53		
8		0		-				-4.5				32.9	-	53 +2		
9	S	825		90 00 04				-4.0		-4.0		33.4	-	SP.54		
10	S	2145		89 52 03	07-57			-4.0	}	+1.0		38.4	(C)	SP.55		
11				272 07 48	07 58											(C)
12																
13	N	2640		90 18 50	91-10			+4.0	}	+18.5	56.9		(A)			
14				269 41 09											(C)	
15	N	1320		90 23 49				-4.0		73.1		43.8	-	SP.56		
16		0		-				-4.5				52.4	-	SP.57		
17	S	1320		89 42 04	17.56			-4.0	}	+2.9		59.8	(C)	SP.58		
18				270 17 57	17 57											(C)
19																
20																

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STADIA SURVEY NOTES

AREA Zone A NPR-4 STATE or PROVINCE Alaska PAGE No. 171
 LINE No.(s) 19 PARTY No. 184 DATE 25 Day 4 Mo. 74 Yr. BOOK No. 1
 SURVEYOR C. Ray RODMAN _____ WEATHER: Cold P.T.S. No. 11012

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															
2	N	1753		90 31 07				+4.0	+19.9	79.7		59.8	0		
3				269 28 53											(A)
4	N	436		91 37 23				-9.0	-16.3			23.4			(OK)
5		-0-		-				-4.6				78.9			- SP-59
6	S	849		90 42 27				-0.0	-10.5	-1.2		27.2			- N2-173 N2-174
7	"	"		269 17 28				"						68.0	
8		0		-				+1.2				70.4			(A)
9	W	-67-		91 26 54				-4.0	-5.7			64.7			- SP-31 L-20
10															+ 1.2 T.C
11															Ref. BK. 1 Vol. 1 Pg. 90
12	N	2676		89 55 50	0-10			+0.0	-0.0	68.0		68.0			(A)
13				269 55 55	0-05										
14	N	2640		89 55 50				-4.0	-3.9			64.1			- SP-60
15	N	1320		90 05 36				-4.0	-6.2			61.9			- SP-61
16		0		-				-4.5				62.5			- SP-62
17	S	1320		90 30 20				-4.0	-15.6			62.4			- SP-63
18	S	2640		90 08 54	-08 54			-4.0	-10.8			57.2			(C) SP-64
19				269 51 09	08 51										
20															

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STADIA SURVEY NOTES

AREA Zone A NPR-4 STATE or PROVINCE ALASKA PAGE No. 172
 LINE No.(s) 19 PARTY No. 184 DATE 25 Day 4 Mo. 74 Yr. BOOK No. 1
 SURVEYOR C. Ray RODMAN _____ WEATHER: _____ P.T.S. No. 101-2

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	N	2640		90 01 54	-01 54			+4.0	}	+5.5	62.7	57.2	0			
3				269 57 59	-02 01											
4	N	1320		90 05 01				-2.0	}	-5.9		57.9	-	SP-65		
5		0		-				-4.5					58.2	-	SP-66	
6	S	1320		89 40 41				-4.0	}	+3.4		66.1	-	SP-67		
7	S	2640		89 37 37 +00 22		270-19-11		-4.0			+10.9		73.6	60	SP-68	Re-shot
8				270-22-13 +00 23		89-46-22								CK		26/4/74
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA Zone A NPR-4 STATE or PROVINCE Alaska PAGE No. 173
 LINE No.(s) 19 PARTY No. 184 DATE 26 Day 4 Mo 74 Yr. BOOK No. 1
 SURVEYOR P. Ray RODMAN 1 WEATHER: Warm P.T.S. No. 0012

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.	ROD			AB.S. OF.S. -S.S.	
1																	
2	N	1320		90 33 01				+4.0	}	+16.8	90.4	73.6	0	SR 68			
3				269 26 34													
4		0		-				-4.5							85.9	-	SR 69
5	S	1320		89 58 17				-4.0	}	-3.3		87.1	-	SP 70			
6	S	1485		89 56 44				-4.0							87.8	0	N2-175
7	"	"		270 03 04													
8	N	2475		89 40 55				+4.0	}	-9.6	78.2		0				
9				270 18 45													
10	N	1320		90 00 41				-4.1							73.8	-	SP 71 N2-176
11		0		90				-4.5	}	+18.6		73.7	-	SP 72			
12	S	1320		89 01 15 ² imp				-4.0							96.8	-	SP 73
13	S	2640		89 58 13				-4.0							75.4	0	SP 74
14				270 01 26					}	+20.6	96.0						
15	N	1320		269 16 47				+4.0									
16				90 43 05													
17		0		-				-4.5	}			91.5	-	SP 75			
18	S	1320		90 02 11				-4.0							91.2	-	SP 76
19	S	1475		89 54 20				-4.0							94.4	0	N2-177 SP-76+
20				270 05 21													

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STADIA SURVEY NOTES

AREA Zone A NPR 4 STATE or PROVINCE Alaska PAGE No. 174
 LINE No.(s) 19 PARTY No. 184 DATE 26 Day 4 Mo. 74 Yr. BOOK No. 1
 SURVEYOR C. Ray RODMAN _____ WEATHER: warm P.T.S. No. _____
Vol-2

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	N	2485		89 39 21				+4.1		-11.0	83.4	94.4	0			
3				270 20 48				"					0			
4	N	1320		90 04 32				-4.0		-5.7		77.7	-	SP-77		
5		0		-				-4.5				78.9	-	SP-78		
6	S	1320		88 38 42				-4.0		+27.1		110.5	0	SP-79		
7				271 20 44				"					0			
8	N	1070		90 19 53				+4.0		+10.3	120.8		0			
9				269 39 29									0			
10		-0-		-				-4.6				116.2	-	N2-178		
11	S	250		91 53 29				-4.0		-12.2		108.6	-	SP-80		
12	S	1570		90 56 27				-4.0		-29.8		91.0	-	SP-81		
13	S	2890		90 35 18				-4.0		-33.9'		86.9	0	SP-82		
14		"		269 24 09									0			
15	N	2670		90 14 57				+4.0		+15.6"	102.5		0			
16		"		269 44 46									0			
17	N	1320		90 26 55				-4.0		-14.3		88.2	-	SP-83		
18		0		-				-4.5				98.0	-	SP-84		
19	S	1320		89 42 12				-4.0		+2.8		105.3	-	SP-85		
20	S	2145		89 26 33				-4.0		+16.7'		119.2	0	N2-179 SP-85+825		

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STADIA SURVEY NOTES

AREA Zone A NPR-4 STATE or PROVINCE ALASKA PAGE No. 175
 LINE No.(s) 19 PARTY No. 184 DATE 26 Day 4 Mo. 74 Yr. BOOK No. 1
 SURVEYOR C. Ray RODMAN _____ WEATHER: CLRM P.T.S. No. Vol 2

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												119.2	0	N2-179	117.8	
2	N	1815		89 26 33				+4.2		-13.3	105.9		A			
3				270 32 52									CK			
4	N	1320		89 53 56				-4.0		-1.7		104.2	-	SP-86		
5	0			-				-5.0				100.9	-	SP-87		
6	S	1320		90 03 34				-4.0		-5.4	use	100.5	-	SP-88		
7	S	2640		269 59 21.5				-4.0		-4.3	113.4	101.6	0	SP-89 = N2-17880	113.4	
8				90 00 03.2												
9	N	3960		89 29 00				+4.1		-31.3	82.1	70.3	0	CK		
10				270 30 29										CK		
11	N	2640		89-37 58				-4.0		+12.9		83.2	-	SP-90	96.0	
12	N	1320		89-47 27				-4.0		+0.8		71.1	-	SP-91	82.9	
13	0			-				-4.5				65.8	-	SP-92	77.6	
14	S	1320		90 06 33				-4.0		-6.3		23.8	-	SP-93	71.8	
15	S	2640		89 56 59				-4.0		-1.9		68.4	0	SP-94	80.2	
16				270 02 33										CK		
17	N	825		90 29 50				+4.0		+11.2	79.6		0			
18				269 29 40										CK		
19	0			-				-5.0				74.6	-	N2-189 93+3	bypassed	
20	S	495		90 44 40				-4.0		-10.4		69.2	-	SP-95	81.0	

TI-688B

*see note on back

WORKED BY _____ CHECKED BY 1st _____ 2nd _____

Note: An error has occurred between N2-179 and N2-180 (lines 1 thro. 7).
At N2-179 the shot point survey checks the reciprocal angle survey by a -1.4 ft. however at N2-180 it is -11.8. The reciprocal angle survey ties to a proven elev. at N2-185 which is the intersection with line 26. Since a field check is not possible at this time we can only assume the reciprocals are correct since they do tie and therefore correct the S.P.'s accordingly.

A. J. [Signature]

STADIA SURVEY NOTES

AREA Zone A NPR 4 STATE or PROVINCE ALASKA PAGE No. 176
 LINE No. (s) 19 PARTY No. 184 DATE 26 Day 4 Mo. 74 Yr. BOOK No. 1
 SURVEYOR C. Ray RODMAN _____ WEATHER: partly P.T.S. No. 1062

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												79.6					
2	S	1815		269 35 25				-4.0		2	-16.8		62.8	Δ	SP-96	74.6	
3				90 24 01										CK			
4	N	2640		90 04 33				+4.0		3	+7.7	70.5		Δ			
5				269 55 01										CK			
6	N	1320		90 55 01				-4.0			-25.1		45.4	-	SP-97	57.2	
7		0		-				-4.5					66.0	-	SP-98	77.8	
8	S	1320		89 57 41				-4.0		3	-3.2		67.3	Δ	SP-99	79.1	
9				270 01 50										CK			
10	N	3135		89 48 38				+4.0			-6.2	61.1		Δ			
11				270 11 02										CK			
12	N	1815		90 05 26				-4.0			-6.9		54.2	-	SP-100	66.0	
13	N	495		90 15 45				-4.0			-6.3		54.8	-	SP-101	66.6	
14		0		-				-4.0					57.1	-	SP-101+2	68.9	
15	S	825		90 29 20				-4.0			-11.0		50.1	-	SP-102	61.9	
16		2145		90 24 40				-4.0			519.5		41.2	Δ	SA-103	53.4	
17				269 35 06										CK			
18	N	1155		89 53 58			+06 02	+4.0			+2.1	43.7		Δ			
19				270 05 29			+05 29							CK			
20		0		-				-4.5					39.2	-	103+4		

TI-58897

WORKED BY _____ CHECKED BY 1st _____ 2nd _____

STADIA SURVEY NOTES

AREA Zone A NPR-4

STATE or PROVINCE ALASKA

PAGE No. 177

LINE No.(s) 18-19

PARTY No. 184

DATE 27

Day 4

Mo. 74

Yr. BOOK No. 1

SURVEYOR C. Ray

RODMAN

WEATHER: Cool

P.T.S. No. 0012

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												43.7					
2	S	165		91 36 18					-4.0		-8.6	35.1	-	SP-104		46.9	
3	S	1485		90 06 03					-4.0		-6.6	37.1	-	SP-105		48.9	
4	S	1550		89 33 26			26 34		-4.0		+7.8	51.5	⊙	N2-100 by passed 105'			
5				270 25 49			25 49						⊙				
6	N	2575		90 29 45			29 45		+4.0		+26.3	77.8	⊙				
7				91 26 30 07 29 03									⊙				
8	N	1320		91 47 00					-4.0		-45.1	32.7	-	SP-106		44.5	
9	D	495		92 51 28					-2.0		-26.6	51.2	-	106+3			
10		0		-					-2.5			73.3	-	SP-107		N2-100 ^{80'} by passed	
11	S	1320		90 22 44					-4.0		-12.7	65.1	-	SP-108		84 76.9	
12	S	2640		90 07 25			-07 25		-4.0		-9.8	18.0	⊙	SP-109		79.8	
13				269 52 1			-07 49						⊙				
14	N	1175		90 20 19			-20 19		+4.0		+11.0	79.0	⊙				
15		1155		269 39 04			-20 56				use → 95.1		⊙				
16		0		-					-4.5			90.6	-	Line 268 ^{120'}		N2-105 ^{70.8}	
17	S	1465		90 32 08					-4.0		-5.4	89.7	-	SP-110		89.7 - use	
18	S	1465		90 19 08					-4.0		-12.1	83.0	-	SP-111			
19	S	2785		90 01 20			-01 20		-4.0		-5.1	90.0	⊙	SP-112			
20				269 58 31			01 19						⊙				

use to pass line 4

WORKED BY _____

CHECKED BY 1st _____

2nd _____

Note: Ref. BK. #1 Vol. 1 Pg. 184 Ln. 3

The elev. refered to above was brought in from line 21
and has been tied to Party 186 work on Line 17.

at this time there is an error on Line 19 North
of line 26 and south of Line 20 - therefore
a proven elevation will be use to carry on south
on line 19

Ent Jensen

STADIA SURVEY NOTES

 AREA Zone A NPR-4

 STATE or PROVINCE ALASKA

 PAGE No. 178

 LINE No.(s) 19

 PARTY No. 184

 DATE 27

 Day 4

 Mo. 78

 Yr. BOOK No. 1

 SURVEYOR C. Ray

RODMAN

 WEATHER: Cool

P.T.S. No.

10/2

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	N	495	91 05 39	- 01 05 39				177	Ln. 19		90.0	0	SP-112		
3			269 58 13	- 01 05 48				+4.0		713.5	1035	SA			
4		0	-					+4.0				CK			
5	S	825	90 31 04					-45-47			99.8	-	N2-186		
6	S	2145	90 22 39	- 22 -39				-4.0		-11.5	92.0	-	SP-118		
7			269 36 57	- 29 -08				-40		-18.3	85.2	0	SP-114		
8	N	2640	90 00 25	- 00 25				+4.0				CK			
9			269 58 58	- 01 05						+4.6	89.8	CK			
10	N	1320	90 00 25					-4.0		-5.3	84.5	-	SP-118		
11		0	-					-45			85.3	-	SP-118		
12	S	1320	90 02 13					-4.0		-4.9	84.9	+	SP-118		
13	S	2640	90 01 57	- 01 57				-4.0		-5.3	84.5	0	SP-118		
14			269 58 37	- 01 -29								CK			
15	N	1320	90 32 45					+4.0		+16.6	101.1	SA			
16			269 27 06									CK			
17		0	-					-4.2			96.9	-	SP-119	N2-187	
18	S	1320	90 18 14					-4.0		-11.0	90.1	-	SP-120		
19	S	2640	89 57 23					-4.0		-2.1	99.0	0	SP-121		
20			270 02 20									CK			

WORKED BY

CHECKED BY 1st

2nd

STADIA SURVEY NOTES

AREA Zone A NPR-4

STATE or PROVINCE ALASKA

PAGE No. 179

LINE No.(s) 19

PARTY No. 184

DATE 27

Day 4

Mo. 74

Yr. BOOK No. 1

SURVEYOR C. Ray

RODMAN

WEATHER: Coal

P.T.S. No.

4012

LINE	Bearing of Sight	Stadio Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2	N 698.5	571.5	90 18 16					+4.0	+7.7	106.7	99.0	0			
3			269 41 27	12 31				'				(A)			
4		0	"					-3.8			102.9	-	N2-188		
5	S 631.5		90 21 41	16 32		-16 32		-4.0	-7.0		99.7	-	SP-122		
6	S 1951		90 04 26			-02 26		-4.0	-6.9		99.8	0	SP-123 RK		
7			269 59 55	54 25		40 08	05 35					(C)			
8	N 2640		90 01 43			-01 43		+4.0	+5.3	105.1		0			
9			269 58 13			-01 42		'				(C)			
10	N 1320		90 02 46					-4.0	-5.1		100.0	-	SP-124		
11		0	-					-4.6			100.5	-	SP-125 = N2-189		
12	S 1320		90 04 57					-4.0	-5.9		99.2	-	SP-126		
13	S 2640		90 03 15			-03 15		-4.0	-6.6		98.5	0	SP-127		
14			269 56 34			03 26		'				(C)			
15	N 2640		90 02 04			-02 04		+4.0	+5.7	104.2		0			
16			269 57 40			-02 20		'				(C)			
17	N 1320		90 03 11					-4.0	-5.2		99.0	-	SP-128		
18	-0-		-					-4.5			103.7	-	SP-129		
19	S 1320		90 02 00					-4.0	-4.8		99.4	-	SP-130		
	S 2640		90 01 43			01 43		-4.0	-5.5		98.7	0	SP-131		

T:500B

269 57 50

02 20

(C)

WORKED BY

CHECKED BY 1st

2nd

STADIA SURVEY NOTES

AREA Zona A N.P.P. 4 STATE or PROVINCE ALASKA PAGE No. 180
 LINE No.(s) 19 PARTY No. 184 DATE 27 Day 4 Mo. 74 Yr. BOOK No. 1
 SURVEYOR C. Ray RODMAN _____ WEATHER: Coal P.T.S. No. 0012

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	N	1320		90 03 09	- 03 09			+4.0	} +5.3	104.0	98.7	0	SP131		
3				269 56 30	- 03 30										CK
4		0		-				-4.0			100.0	-	SP132	N2-190	
5	S	1320		90 03 20	- 03 20			-4.0	} -5.3		98.7	-	SP133		
6	S	2640		90 01 55	- 01 55			-4.0					98.4	0	SP134
7				269 57 40	- 02 18			-4.0	} -5.6				CK		
8	N	2640		90 20 20	- 20 20			+4.0			} +19.7	118.1			A
9				269 39 28	- 20 38			-4.0							CK
10	N	1320		90 40 10	- 40 10			-4.0	} -19.4		98.7	-	SP135		
11		0		-				-4.5					114.6	-	SA136
12	S	1320		-				-4.0							
13	S	495'		89-34-23	+ 0° 20' 37"			-4.2	} -1.2		116.9	-	N-2-191	SP136 + 495'	
14	S	1320		89-56-18	- 03 42			-4.0			} -2.7		115.4	0	SP137
15				270 03 11	- 03 11			-4.0							CK
16	N	2640		89 45 10	- 14 50			+4.0	} -7.2	108.2			A		
17				270 14 26	- 14 26			-4.0							CK
18	N	1320		90 03 21	- 03 21			-4.0	} -5.3		102.9	-	SP138		
19		0		-				-4.5					103.7	-	SP139
20		1320		90 -13 08	- 13 03			-4.0	} -9.1		99.1	0	SP140		
				269 46 24	- 13 36										CK

WORKED BY _____

CHECKED BY 1st _____

2nd _____

STADIA SURVEY NOTES

 AREA Zone A NPR-9

 STATE or PROVINCE ALASKA

 PAGE No. 181

 LINE No.(s) 19

 PARTY No. 189

 DATE 27

 Day 4 Mo. 74

 Yr. 19 BOOK No. 1

 SURVEYOR C. Ray

RODMAN

 WEATHER: Good

P.T.S. No.

Vol-2

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												99.1	0	SP140		
2	N	165		91.19 19				+4.0		+7.6	106.7		SA			
3				268.9548									10K			
4	0			-				-3.8				102.9	-	N2-192-SP140+165		
5	S	1155		90.2836				-4.0		-13.2		93.1	0	SP141		
6	S	2975		90.2712				-4.0					0	SP142		
7				269.3281									CK			
8	N	2195		89.5315	+06-25			+4.0		-0.1	93.0		0			
9				270.0615	+06-15								CK			
10	N	825		90.2332				-4.0		-9.6		83.4	-	SP142		
11	0							-4.5				88.5	-	142+3		
12	S	495		90.3340				-4.0		-8.9		84.1	-	SP143		
13	S	1815		89.5819	+01-41			-4.0		-3.2		89.8	0	SP144		
14				270.0119	+01-19								CK			
15	N	1925						+4.0								
16													CK			
17	N	609						-4.0					-	SP145		
18	0												-	N2-193 SP144+609'		
19	S	711						-4.0					-	SP146		
20	S	3031						-4.0					0	SP147		

TI-568B

WORKED BY

CHECKED BY 1st

2nd

STADIA SURVEY NOTES

AREA Zone A NPR-4 STATE or PROVINCE Alaska PAGE No. 182

LINE No.(s) 19 PARTY No. 184 DATE 27 Day 4 Mo. 74 Yr. BOOK No. 1

SURVEYOR C. Ray RODMAN _____ WEATHER: cool windy P.T.S. No. _____

Vol 2

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.				ROD
1																
2	N	3249		90 15 05	- 15 05			+4.0	} +18.5	108.3	89.8	0	SP-142			
3				269 44 18	- 15 42								SA			
4	N	1929		90 24 38			-4.0						90.5	-	SP-145	
5	N	609		90 35 09			-4.0				98.1	-	SP-146			
6		0		-			-3.8				104.5	-	N-2 193	SA 146 + 609		
7	S	711		91 01 03			-4.0				91.7	-	SP-147			
8	S	2031		90 24 28	- 24 28		-4.0		} -18.6		89.7	0	SP-148			
9				269 34 08	- 24 52											
10	N	1485		90 31 25	- 31 25		+4.0									
11		0		269 28 15	- 31 45				} +17.6	107.3						
12	N	165		92 57 30			-4.0									
13		0		-			-4.5						94.8	-	SP-149	
14	S	1155		90 02 15	- 02 15		-4.0		} -4.8		102.8	-	N-2-194	149 + 166		
15	S	2425		269 57 22	- 00 38		-4.0					102.5	0	SP-150		
16																
17	N	2181		89 43 41			+4.0	+6.0	} -4.2	99.3						
18	N	861		270 15 43												
19		0					+4.0									
20											101.4	-	SP-151	Intersection of Line 19		
														EL. 30		

TI-588B

WORKED BY _____

CHECKED BY 1st _____

2nd _____

STADIA SURVEY NOTES

 AREA Zone A NPR-4

 STATE or PROVINCE Alaska

 PAGE No. 183

 LINE No.(s) 19

 PARTY No. 184

 DATE 27

 Day 4

 Mo. 74

 Yr. BOOK No. 1

 SURVEYOR C. Ray

RODMAN _____

WEATHER: _____

P.T.S. No. _____

028

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												98.3				
2	S	459		90 17 20					-4.0		-6.4	91.9	-	SP-152		
3	S	1779		90 10 08					-4.0		-9.2	89.1	-	SP-153	End of Line	
4	W	903		90 09 50					-4.0		-6.6	91.7	-	SP-81	L-30	
5																
6	E	417		89 32 21		+22 39			-4.0		-0.6	97.7	-	SP-80	L-30	
7				270 27 41		+22 41								CK		
8	ref. BK. 1 Vol. 1 Pg. 48 Ln. 6											98.3				
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

TI-588B

WORKED BY _____

CHECKED BY 1st _____

2nd _____