

STADIA SURVEY NOTES

AREA NPR-4# STATE or PROVINCE AK PAGE No. 1
 LINE No.(s) 7X5 PARTY No. 182 DATE 3 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONOHON 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.	ROD				
1																	
2																	
3		3960	D	89 08 43													Notes: worked backwards from Δ Linda page 17
4			R	270 52 20													REMARKS party 182
5		2672		89 09 08													Top of pipe. 415.6 ground
6		1320		89 30 05													common with line 63
7		0															NA-119 SP40 L7X5
8		1320		90 03 25													RO SP 37
9		2090	D	87 47 15													FLAG ON PIPE
10			R	272 13 34													
11		1320	D	91 15 34													
12			R	268 45 24													
13		0															
14		1320		89 35 04													
15		2640	D	89 29 38													
16			R	270 31 12													
17		2640 2460	D	88 46 02													
18			R	271 14 30													
19		1320		89 46 13													
20		0															

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 4
 LINE No.(s) 7x5 PARTY No. 182 DATE 3 Day 4 Mo. 25 Yr. BOOK No. 4
 SURVEYOR MORISON RODMAN WEATHER: 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																	
3		11385	D 89 51 19														
4			R 270 09 13														
5		495	94 55 20														
6		1815	D 89 54 36														
7			R 270 05 58														
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

Ref. Pg. 3

Ln. 7

Page 3

NOTE

591.0
 (-24.6) 566.4
 (0) 5016
 (Δ) 5016
 (Δ)
 (0)
 (0)

SP 6 = South end
 line 7 X 5

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 3
 LINE No.(s) 7XS PARTY No. 182 DATE 3 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONDOR RODMAN _____ WEATHER: CLEAR COLD 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																
3		3960	D	91 06 10				4.0		+79.6	597.1	517.5	0	19		
4			R	268 59 56									Δ			N4-123 K @ SP 16
5		2640		92 16 40				4.0		-108.8			Δ			
6		1320		93 04 40				4.0		-74.9					18	Elev. for page 4
7		0		-											17	DEEP SNOW
8		1320		91 42 23				4.0		-61		591.0			16	DEEP SNOW
9		2640		90 44 33				4.0		-43.3					15	
10		3960	D	90 29 49				4.0		-38.2					14	
11			R	269 30 57				4.0		-37.9		559.2	0	13		
12		825	D	89 43 01				4.0		-0.2	559.0		Δ			K @ SP 12 + 49.5
13			R	270 17 59				4.0					Δ			
14		495		92 56 11				4.0		-29.4		529.6			12	
15		1815		92 55 47				4.0		-96.8					11	
16		3135	D	91 52 19				4.0		-105.9		453.1	0	10		
17			R	268 08 47				4.0					0			
18		445		91 21 18				4.0		-109.3					9	
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 2
 LINE No.(s) 7XS PARTY No. 182 DATE 3 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONOHON RODMAN _____ WEATHER: _____ P.T.S. No. _____

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												457.6				TP 30
2		1320		89 30 35				4.0		+4.3				-	29	
3		2640		87 09 05				4.0		+35.1		489.7		-	28	
4		3135	D	89 00 43				3.7		+50.7		505.3	0		N4-122 @ SP 27+825	
5			R	271 00 08				3.7					0			
6		4290	D	87 56 35				3.7		-1.1		504.2		Δ		TP @ 24+495
7			R	270 64 13				3.7						Δ		
8		3465		90 11 01				4.0		-16.1				-	27	
9	2145	3135		90 58 46				4.0		-40.7				-	26	
10	825	1815		91 52 11				4.0		-30.9		473.3		-	25	
11		495	D	89 56 35	90 15 30			4.0		-6.2		498.0	0		24	
12			R	269 45 22				4.0						0		
13		4455	D	90 14 25				4.0		+22.0		520.0		Δ		TP @ SP 20+825
14	F		R	269 46 34				4.0						Δ		
15		3135		90 41 41				4.0		-42.0				-	23	
16		1815		91 23 47				4.0		-48.2				-	22	
17		495		91 50 24				4.0		-19.9				-	21	
18		825		91 14 45				4.0		-21.9		498.1		-	20	
19		2145	D	89 57 51				4.0		-2.5		517.5	0		19	
20			R	270 02 43				4.0					0			

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AREA NPR-4 STATE or PROVINCE AK PAGE No. 5
 LINE No.(s) 7XS PARTY No. 182 DATE 3 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONAHAN RODMAN _____ WEATHER: _____ P.T.S. No.: _____

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														419.6 Top of pipe	
2		3900	D	89 53 55										415.6 ground	
3			R	270 06 16											
4		2640	D	89 55 59											
5		1320	D	90 00 46											
6		0													
7		1320	D	89 49 09											
8		1320	R	270 11 16											
9		2145	D	89 57 04											
10		825	R	270 03 27											
11		495	D	90 00 10											
12		495	D	90 39 29											
13		0													
14		825	D	89 09 02											
15			R	270 51 32											
16		495	D	94 26 52											
17		1815	D	91 54 26											
18		3135	D	91 17 55											
19			R	268 42 47											
20															

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STADIA SURVEY NOTES

AREA NPR-4 STATE OR PROVINCE AK PAGE No. 6
 LINE No.(s) 7XS PARTY No. 182 DATE 3 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONOHON RODMAN _____ WEATHER: _____ 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											327.0		SP 49		
2	1720	1815	D	91 19 16				+4.0	+43.6 ✓	370.6		Δ	π @ 50 + 400		
3		495	R	268 41 05				4.0				Δ			
4	400	825		92 18 38				4.0	-20.1 ✓				50		
5		920		93 56 52				4.0	-67.3 ✓				51		
6	2240	2145	D	91 00 52				4.0	-48.7 ✓		321.9	0	52		
7		✓	R	268 51 47				4.0				0			
8		2145	D	91 01 22				+4.0	+42.1 ✓	369.0		Δ	π @ 53 + 825		
9		✓	R	268 59 15				4.0				Δ			
10		825		92 19 04				4.0	-37.4 ✓		326.6	-	53		
11		495		92 48 48				4.0	-28.3 ✓			0	54		
12		1815		90 58 49				4.0	-24.9 ✓		329.1	0	55		
13			R	267 01 52				4.0				0			
14															
15															
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AR PAGE No. 7
 LINE No.(s) 7XS PARTY No. 182 DATE 6 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONOHAN RODMAN _____ WEATHER: CLOUDY P.T.S. No. _____

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		3135		0 90 28 21					+4.0	+29.5 ✓	358.6	329.1	0	55	TR@ 57+495	
3	✓			R 269 32 24					4.0				A			
4		1815		91 05 53					4.0	-38.8 ✓		319.8	-	56		
5	✓	495		93 42 13					4.0	-36.0 ✓		322.6	-	57	(336.8)	
6		330		0 90 40 19					3.7	-7.7 ✓		350.9	0	TR@ 57	+825 N4-12.6	
7	✓			R 269 20 35					3.9			(358.0)	0		C-HAIR ABOVE TR@ 57	
8		3135		0 89 09 26					+3.9	-42.6 ✓	308.3		A		TR@ 60	
9	✓			R 270 51 21					3.9				A			
10		2640	267	89 30 27					4.0	+18.9 -		327.0	-	58		
11		1320	120	90 07 39					4.0	-6.7 -			-	59		
12			0						5.2	-5.2			-	60		
13		1320		90 06 09					4.0	-6.4 -			-	61		
14		2640		0 89 54 32					4.0	+0.5 ✓		308.8	0	62		
15	✓			R 272 06 19					4.0				0			
16		2970		0 90 37 32					+4.0	+36.1 ✓	344.9		A		TR@ 64+330	
17	✓			R 269 23 09					4.0				A			
18		1650		91 04 59					4.0	-35.2 -				63		
19		330		91 43 30					4.0	-13.9 -				64		
20		990		90 31 38					4.0	-13.1 -				65		

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AREA NPR-4 STATE or PROVINCE AK PAGE No. 8
 LINE No.(s) 7XS PARTY No. 102 DATE 6 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONOHON RODMAN _____ WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												344.9				K@ C4+326
2		2310		90 21 00						-18.2		326.7	-	66		
3		2805	D	90 03 32						-6.0		338.9	0	TP@		66+495 N4-127
4		✓	R	265 57 4								(346.2)	0			HAIR AT ABOVE SNOW PENCIL MARK ON EARTH
5		2145	D	89 47 43						-4.4		334.5	Δ			K@ SP 68
6		✓	R	270 12 50									Δ			
7		1320		89 49 55						-0.1						67
8		0		-						-5.6						68
9		1320		90 50 32						-23.4						69
10		2640	D	90 15 38						-15.6		318.9	0			70
11		✓	R	269 45 23									0			
12		3960	D	89 39 33						-20.1		298.8	Δ			K@ SP 73
13		✓	R	270 21 25									Δ			
14		2640		89 55 33						-0.6						71
15		1320		89 55 33						-2.3						72
16		0		-						-5.2						73
17		1320		90 02 00						-4.8						74
18		2640		89 51 42						+2.4						75
19		3960	D	89 50 52						+6.1		312.3	0	TP@		SP 78 N4-128
20		6600	R	270 10 12						+19.4		(324.5)	0			

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AREA NPR-4 STATE or PROVINCE AK PAGE No. 9
 LINE No.(s) 7XS PARTY No. 182 DATE 6 Day 4 Mo. 25 Yr. BOOK No. 4
 SURVEYOR MONOHON RODMAN _____ WEATHER: _____ 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															
2		0		-					46.4 ✓		312.3		78		
3		2640		90 32.09					-28.6	318.7	(319.6)	Δ		K@78 TP N4-128	
4		1320		91 00 10					-29.1				76		
5		1320		90 09 42					-7.7				77		
6		2640		89 57 57					-2.5				79		
7		2860		89 51 23					+4.2		322.9	0	80	TP@ SP80+220 N4-129	
8		✓		R 270 09 40							(325.4)	0			
9		5060		89 21 11					-45.5	277.4		Δ		K@SP 84	
10		✓		R 270 33 41								Δ			
11		3960		89 28 52					+31.9				81		
12		2640		89 39 18					+11.9		289.5		82		
13		1320		90 03 18					-5.3				83		
14		0		-					-5.3				84		
15		1320		90 14 49					-9.7				85		
16		2640		D 90 40 25					-11.2		266.2	0	86		
17		✓		R 269 51 00								0			
18															
19															
20															

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 10
 LINE No.(s) 7X5 PARTY No. 182 DATE 6 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONOHON RODMAN WEATHER: OK 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													266.2			
2															86	
3		1320	D	90 10 23					+4.0	+7.8 ✓	274.0	Δ				K@ 87
4		✓		R 269 58 26					4.0			Δ				
5		0		-					4.0	-5.3		-			87B	
6		1320	D	90 18 10					4.0	-11.0 ✓		○			88	
7		2640	D	90 02 06					6.0	-7.2 ✓	266.8	○			89	
8		✓		R 269 58 54					6.0			○				
9		1320	D	90 03 51					+6.0	+7.4 ✓	274.2	Δ				K@ TPats Pao N4-130
10		✓		R 269 56 28					6.0			Δ				
11		0		-					6.0	-6.0	(281.3)	Δ			90	
12		1320		90 06 08					4.0	-6.4 ✓					91	
13		2640	D	89 51 55					4.0	+2.3 ✓	276.5	○			92	
14		✓		R 270 08 17					4.0			○				
15		495	D	91 08 54					+4.0	+13.9 ✓	290.4	Δ				K@ 92+495
16		87	R	268 51 45					4.0			Δ				
17		825		89 56 02					4.0	-3.0 -		○			93	
18		2145		90 01 37					4.0	-5.0 -					94	
19		2310	D	89 46 59					8.2	+1.0 ✓	291.4	○			TP@	94+K65 N4-131
20		✓		R 270 14 16								○				

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE _____ PAGE No. 11
 LINE No.(s) 7XS PARTY No. 182 DATE 7 Day 4 Mo. _____ Yr. BOOK No. 4
 SURVEYOR _____ RODMAN _____ WEATHER: _____ 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	Correction				INST.	ROD			
1												291.4				
2		3795	D	89 48 27				+8.2		-4.6 ✓	286.8	(301.4)	Δ	TP@ 94+165	to 97	
3		✓	R	270 11 26									Δ		N 7-131	
4		2640		89 51 59				4.0		+2.2 -			-	95		
5		1320		89 54 20				4.0		-1.8 -			-	96		
6		0		-				5.3		-5.3			-	97		
7		1320	D	90 05 02				10.0		-11.9 ✓		274.9	0	98		
8		✓	R	270 55 13				10.0					0			
9		2640	D	89 02 37				15.0		-29.2 ✓	245.7		Δ		to 100	
10		✓	R	270 57 47				15.0					Δ			
11		1320		89 46 54				4.0		+1.0 -			-	99		
12		0		-				5.2		-5.2			-	100		
13		1320	D	89 57 03				4.0		-2.9 -		242.8	0	101		
14								4.0					0			
15		2040	D	89 29 00				4.0		+14.4 ✓		260.1	0		Red shot turning pt	
16		✓	R	270 31 05				4.0					0		101+720	
17		760	D	89 46 05				4.0		+0.9 ✓	261.0		Δ		to 102+165	
18		✓	R	270 14 03				4.0					Δ			
19		0		-				5.9		-5.9 ✓		255.1	0		102+165	
20															To page 12	

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 12
 LINE No.(s) 7XS PARTY No. 182 DATE 6 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MUNOZON RODMAN _____ WEATHER: _____ 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																
2	855	825		901036				4.0		-6.6	✓	265.9		-	104	TO SP103+465
3		465		903741				4.0		-9.1	✓			-	103	
4		1620	D	901437				4.0		-10.8	✓	255.1	0	102+	165	Elev. page 11
5		✓	R	2694544				4.0					0			work backwards
6																
7																
8																
9																
10														Δ	BS SP101 TO SP	
11														A		
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE OR PROVINCE AK PAGE No. 13
 LINE No.(s) 7XS PARTY No. 182 DATE 6 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONOHON RODMAN WEATHER: 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											330.0				
2															
3															
4		2145		089 36 34				+4.0	-10.8	319.2		Δ	113	K@111+495	
5		✓		R270 23 58				4.0				Δ			
6		825		90 02 16				4.0	-4.5				-	112	
7		495		91 04 13				4.0	-13.2		306.0		-	111	
8		1815		90 43 19				4.0	-26.9				-	110	
9		3135		090 29 07				4.0	-30.6		288.6	0	0	109	
10		✓		R 269 30 47				9.0				0	0		
11		2805		89 40 43				4.0	-11.8	276.8		Δ		K@106+1155	
12				89 40 43				4.0				Δ			
13		1485 1485		90 05 37				4.0	-6.4				-	108	
14		165 165		92 19 29				4.0	-10.7		266.1		-	107	
15		1155		90 55 35				4.0	-22.7		254.1		-	106	
16		2475		090 16 59				4.0	-15.8		261.0	0	0	105	
17		✓		R269 44 18				4.0				0	0		
18		2175		D 90 01 37				4.0	+4.9	265.9		Δ		K@103+465	
19		✓		R269 58 50				4.0				Δ			
20															

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 14
 LINE No.(s) 7KS PARTY No. 182 DATE 8 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR _____ RODMAN _____ WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Δ B.S. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD				
1																	
2		660		R 89 407							+4.0	389.4	0		IP @ SP 115+1155		
3		✓		R 270 4653									0		N 4-132		
4		660		D 89 3723							+4.9	389.8	Δ		K @ SP 115+495		
5		✓		R 270 24 04									Δ		115		
6		495		91 34 12							-17.6	372.2			115		
7		1815		91 12 09							-42.1				114		
8		3135		D 91 01 40							-59.8	330.0	0		113		
9		✓		R 268 59 15									0				
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE _____ PAGE No. 15
 LINE No.(s) 7XS PARTY No. 182 DATE B Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONAHAN RODMAN _____ WEATHER: _____ 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												195.6	-	126		
2		3300	D	91 15 23				+4.0		+76.0	271.6		Δ		K @ SP 123 + 660	
3		✓	R	268 45 21				4.0					Δ		TP N4-133	
4		1980	D	92 23 44				4.0		-86.8	✓		-	125		
5		660	D	92 53 02				4.0		-37.2	✓		-	124		
6		0		-				5.0		-5.0		(270.1)			TP N4-133	
7		660	D	90 32 36				4.0		-10.3	✓	261.3	-	123		
8		1980	D	91 20 52				4.0		-50.6	✓		-	122		
9		3300	D	90 53 46				4.0		-55.6	✓		-	121		
10		4620	D	90 03 00				4.0		-7.4	✓	264.2	0	150		
11		✓	R	269 57 54				4.0					0			
12		825	D	91 58 10				+4.0		+32.2	✓	296.4	Δ		K @ SP 119 + 495	
13		✓	R	268 02 59				4.0					Δ			
14		495	D	89 43 23				4.0		-1.6	✓	294.8	0	119		
15		✓	R	270 17 23				4.0					0			
16		3465	D	91 26 25				+4.0		+40.6	✓	335.4	Δ		K @ 116 + 495	
17		✓	R	268 34 39				4.0					Δ			
18		2145	D	92 02 20				4.0		-80.3	✓		-	118		
19		825	D	92 35 41				4.0		-41.3	✓		-	117		
20		495	D	89 13 43				4.0		+2.7	✓		-	116		

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 16
 LINE No.(s) 7X5 PARTY No. 182 DATE 8 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR _____ RODMAN _____ WEATHER: CLEAR COOL 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.	ROD		
1															
2		1917.5	D	90 08 32					+4.7			217.6			
3		1917.5	R	269 52 15					4.7	+9.2	226.8		Δ	TP@ SP 125+292.5	
4		1625		90 32 46					4.0				Δ	TR@ SP B3+1015	
5		305		91 13 16					4.0	-19.5		207.3	-	135	
6		1015		91 09 16					4.0	-10.4			-	134	
7		2335	D	90 32 12					4.0	-24.4			-	133	
8	✓		R	269 28 12					4.0			201.1	0	132	
9		2640	D	89 30 31					+4.0				Δ	TR@ SP 130	
10	✓		R	270 30 45					4.0	-19.1	182.0		Δ		
11		1320		89 56 16					4.0	-2.6		179.4	-	131	
12	0			-					5.2	-5.2			-	130	
13		1320		90 16 39					4.0	-10.4			-	129	
14		2640	D	90 02 47					4.0			176.1	0	128	
15	✓		R	269 57 45					4.0	-5.9			0		
16		825	D	91 10 13					+4.0	+20.7	196.8		Δ	TR@ SP 127+495	
17	✓		R	268 50 44					4.0				Δ		
18		495		90 47 12					4.0	-10.8		186.0	-	1207	
19		1815	D	89 55 11					4.0			195.6	0	126	
20	✓		R	270 05 38					4.0	-1.2			0		

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 17
 LINE No.(s) 7XS PARTY No. 182 DATE 8 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONOHAN RODMAN SWIFT WEATHER: _____ 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 (111)				
1													217.6				
2		3172.5	D	89 48 23					4.7		-6.3	✓ 211.3		Δ	TP @ SP 135+292.5 N4-134		
3			R	270 12 12					4.7					Δ	TP @ SP 137+825		
4		2145		90 43 28					4.0		-31.1	✓			136		
5		825		91 45 55					4.0		-29.4	✓	181.9		137		
6		425	D	90 34 31					4.0		-8.3	✓	203.8	○	138		
7		✓	R	269 25 35					4.0					○			
8		4455	D	89 47 48					4.0		-12.1	✓ 190.9		Δ	TP @ SP 141+495		
9		✓	R	270 12 41					4.0					Δ			
10		3135		90 27 09					4.0		-28.8	✓			139		
11		1815		91 01 07					4.0		-39.4	✓			140		
12		495		91 35 37					4.0		-17.8	✓		○	141		
13		825		91 12 12					4.0		-21.3	✓	169.6	○	142		
14		2145	D	91 07 58					4.0		-46.2	✓	144.7	○	143		
15		✓	R	268 52 45					4.0					○			
16		2411.4	D	91 29 49					4.0		+66.6	✓ 211.3		Δ	TP @ SP 144+1091.4		
17	S	✓	R	268 31 10					4.0					Δ	N4-135		
18	S	1091.4		92 13 45					4.0		-46.5	✓			144		
19	N	228.6		91 26 22					4.0		-9.7	✓	201.6		145		
20		0	○	-					4.9		-4.9	✓	206.4		N4-135		

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 18
 LINE No.(s) 7X5 PARTY No. 182 DATE 8 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONOHAN RODMAN SWIFT WEATHER: COLD 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												215.2				
2																
3		1548.6		91 00 26				4.0		31.0		184.250	0	146		TC@TP@ 144+1091.4
4				R 269 00 23				4.0					0			
5								END OF DAY								
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA NP R-4 STATE or PROVINCE _____ PAGE No. 19
 LINE No.(s) 7 X S PARTY No. 182 DATE 10 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MW NO HON RODMAN _____ WEATHER: _____ P.T.S. No. _____

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																
3		1155	D 90 28 09						+4.0	+13.5	-197.7	184.2		Δ	SP 146	
4			R 269 31 32						4.0					CK		
5		0	-						-5.2	-5.2		192.5			SP 146 + 1155	
6		165	D 92 33 43						4.0	+11.4		186.3		0	147	
7			R 267 26 43						4.0					CK	147	
8		2640	D 89 17 41						+4.0	-28.8	-157.5			Δ		
9	S		R 270 43 09						4.0					CK		
10	S	1320	89 54 36						4.0	-1.9		155.6			148	
11		0	-						6.0	-6.0		151.5			149	
12	N	1320	90 17 14						4.0	-10.6		146.9			150	
13	N	2640	90 18 51						4.0	-16.2		141.3			151	
14		3960	D 90 07 51						4.0	+12.4		145.1		0	152	
15			R 269 53 18						4.0					CK		
16		4127	D 90 39 21						+4.0	+50.2	+50.7	-195.3		Δ		
17			R 269 21 31						4.0					CK		K @ 155 + 167 TP
18		2807	91 10 43						4.0	-61.7		134.1			153	
19		1487	91 40 23						4.0	-47.4		148.4			154	
20		167	92 25 25						4.0	-11.1		184.7			155	

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE _____ PAGE No. 20
 LINE No.(s) 7XS PARTY No. 182 DATE 10 Day 4 Mo. 76 Yr. BOOK No. 4
 SURVEYOR _____ RODMAN _____ WEATHER: _____ 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												195.8	(199.1)			
2		0	-	90							-5.1		190.7	-	156	NA-136
3	N	1153		90 25 47							-12.5		183.3	0	156	IP@ SP165+455 167
4	N			R269 35 06												
5	S	495		90 25 53							+7.7	-191.0		D		
6				R269 35 08												
7		0									-4.0			CK		
8		330		90 59 11							-5.2		185.3		156+495	
9				R269 01 37							-9.6		181.4	0	156+825	
10	S	2935		89 28 47										CK		
11				R280 22 10							-14.5	-166.9		A		
12	S	2440		70 01 04												
13	S	1120		90 55 44							-4.0		162.1		157	
14		0									-4.0		144.7		158	
15	E	765		89 30 33							-1.6		165.3		158+1120	INT 11K
16	W	555		91 43 39							+2.6		169.5		161	LINE 58
17	N	200		90 35 00							-20.7		146.2		162	LINE 58
18				R269 26 04							-6.0		160.7	0	159	
19														CK		
20																

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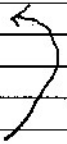
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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 21
 LINE No.(s) 765 PARTY No. 182 DATE 10 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONOHON 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																
2		2640		90 14 22					+4.0	+14.7	-175.6	160.9		SP 159		
3		R		269 46 32					4.0							
4		1320		90 22 33					4.0	-12.7		162.9		SP 160		
5		0		-					6.1	-6.1		169.5		SP 161		
6																
7																
8																
9																
10																
11																
12																
13																
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16																
17																
18																
19																
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see Page 23 Line 13



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STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE AK PAGE No. 2
 LINE No.(s) 7XS PARTY No. 182 DATE 9 Day + Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONAHAN RODMAN WEATHER: 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		3341	D	90 29 26								154.1			TP@SP 175	NA-139
3		✓	R	269 31 14						+33.3	-187A		Δ		K@SP 172+619	
4		28											Δ			
5		2021		90 34 52						-24.5		162.9		-	174	
6		701		90 41 04						-12.4		175.0		-	173	
7		0		-						-5.0		182.9		-	TP NA-138	
8		619		91 16 31						-17.8		169.6		-	172	
9		1939		91 04 18						-40.3		147.1		-	171	
10		3259	D	90 43 09						-44.5		142.9		0	170	
11		✓	R	260 17 47										0		
12		1815	D	90 24 37						+16.8	-159.7			Δ		K@SP 168+825
13		✓	R	269 36 06										Δ		
14		495		90 28 53						-8.2		151.5		-	169	
15		825		90 25 37						-10.1		149.6		-	168	
16		2145		89 55 10						-1.0		158.7		-	167	
17		3267 2013	D	89 56 46						-0.8		158.4		0	TP@SP 168+198	NA-137
18		✓	R	270 04 08										0		
19																
20																Ref. Pg. 23

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STADIA SURVEY NOTES

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AREA NPR-4 STATE or PROVINCE AK PAGE No. _____
 LINE No.(s) 745 PARTY No. 182 DATE 9 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONOHAN RODMAN _____ WEATHER: _____ 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		2838	D	89 23 15								158.9			SP164+198=14-137	
3		✓	R	270 37 24							-26.3	-132.6		Δ	TOP SP164	
4		2640		89 23 05										Δ		
5		1320		89 30 28												
6		0		-												
7		1320		89 55 35												
8		2640	D	89 25 20												
9		✓	R	270 35 05												
10		1155	D	90 45 38												
11		✓	R	269 14 53												
12		165		91 02 43												
13		1485	O	90 22 49												
14		✓	R	269 37 41												
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 28
 LINE No.(s) 7XS PARTY No. 182 DATE 10 Day 4 Mo. 76 Yr. BOOK No. 4
 SURVEYOR MDNDHON RODMAN _____ WEATHER: _____ 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																
3		3089	D	89 18 25				5.2		-32.2	177.7	177.7	Δ		N4-143 @ SP 201+449	
4			R	270 43 7									CK			
5		2640		89 21 08				4.0		+25.8				SP 201		
6		1320		89 43 25				4.0		+2.4				SP 200		
7		0		-				5.5		-3.5				SP 199		
8		1320	D	90 04 44				4.0		-5.8				SP 198		
9			R	269 55 2				4.0						CK		
10		2640		89 53 58				4.0		+0.6				SP 197	TO 199	
11		1025	D	91 20 20				4.0								
12			R	269 40 03				4.0						CK		
13		0		-				5.2							SP 197 + 1025	
14	S	2180	D	90 04 08				3.9		-1.7					N4-142 @ SP 196 + 165	
15			R	269 55 23				3.0						CK		
16	N	4125	D	89 40 03				3.9		-20.3	123.6	123.6	Δ		TO 192	
17			R	270 20 21				3.9						CK		
18	N	3960		89 43 25				4.0		+15.1	137.7	137.7			196	
19	N	2640		89 59 04				4.0		-3.3	(120.3)	120.3			195	
20																

Line moved and re-surveyed
28 new
28 of new
see pages for survey line

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Ref. 19.25 (120.3) Ref. 19.28

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 28
 LINE No.(s) 7x5 PARTY No. 182 DATE 10 Day 4 Mo. 74 Yr. BOOK No. 4
 SURVEYOR _____ RODMAN _____ WEATHER: _____ 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												123.6				
2																
3	N	1320		90 02 24							4.0	-4.9	118.7		SP 194	
4		0		-							5.5	-5.6	118.1		SP 193	
5		1320		89 48 20							4.0	+0.5	124.1		SP 192	
6		2475	D	88 55 29							4.0	+42.4	146.0	0	N4-141 @ SP 191+165	
7			R	271 04 28							4.0				CK	
8		4290	D	89 33 16							4.0	-29.7	136.3		Δ	
9			R	270 27 17							4.0				CK	
10		4125		89 36 37							4.0	+24.1	160.4		SP 191	
11		2805		90 10 55							4.0	-12.9	123.4		SP 190	
12		1485		90 24 34							4.0	-14.6	121.7		SP 189	
13		1650		91 00 43							4.0	-6.9	129.4		SP 188	
14		0		-							4.0				SP 187+1155	
15	1155	2475		90 38 42							4.0	-17.0	119.3		SP 187	
16		2475		90 30 23 90 30 37							4.0	-26.0	110.3		SP 185 186	
17		3795	D	90 16 56							4.0	-22.7	113.6	0	SP 185	
18			R	269 43 08							4.0				CK	
19																
20																

Ref. page 26

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 2 of 4
 LINE No.(s) 7XS PARTY No. 182 DATE 10 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR _____ RODMAN _____ WEATHER: _____ 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																
2		2640		D 90 55 23				+4.0		+46.4	-160.0	113.6				
3		1320		R 269 05 02				4.0								
4		1320		91 27 24				4.0		-37.6	-	122.4		184		
5		0		-				5.3		-5.3	-	154.7		183		
6		1320		D 89 56 26				4.0		-2.6	-	157.4		182		
7		1973		D 89 49 17				4.1		+2.0	-	162.0				NA-140@SP 181+667
8				R 270 10 22				4.1								
9		3307		D 89 53 53				4.1		-1.9	-160.1					
10				R 270 06 24				4.1								
11		2640		90 07 51				4.0		-10.0	-	150.1		SP 181		
12		1320		90 27 53				4.0		-14.7	-	145.4		180		
13		0		-				5.4		-5.4	-	154.7		179		
14		1320		D 90 19 21				4.0		-11.4	-	148.7		178		
15				R 269 41 02				4.0								
16		1320		D 89 27 05				4.0		-8.7	-140.0					
17				R 270 33 16				4.0								
18		0		-				5.8		-5.8	-	134.2		SP 177		
19																
20																

Ref. Page 27

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WATER BACK

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 2⁷
 LINE No.(s) 7XS PARTY No. 182 DATE 10 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MONOHON RODMAN _____ WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ΔB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1											140.0					
2																
3		1320		90 04 28				4.0		-5.7	134.3		176			
4		2640		0 89 36 34				4.0		+14.1	159.1		50 50 175			
5				R 270 23 43				4.0					200			
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

Ref. Pg. 22 L. 2

WATER BACK

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 28
 LINE No.(s) 7XS PARTY No. 182 DATE 11 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MUNDAUN RODMAN _____ WEATHER: _____ 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																
3	4515 N		D 90 07 13					4.0		+12.9	-134.8	141.9		SP200		
4			R 269 53 36					4.0						CK		
5	3195 N		90 17 12					4.0		-20.0		134.8		1989		
6	1875 N		90 45 30					4.0		-28.8		126.0		198		
7	555 N		90 57 25					4.0		-13.3		141.5		1967		
8	G		-					5.2		-5.2		149.6		196 X 196+765		
9	765 S		92 06 50					4.0		-32.2		122.6		196		
10	2085 S		D 90 50 02					4.0		-34.5		(120.3)		195	Ref. pg. 24	
11			R 269 09 33					4.0						CK		
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 29
 LINE No.(s) 7X5 PARTY No. 182 DATE 11 Day 4 Mo. 7 Yr. BOOK No. 4
 SURVEYOR _____ RODMAN _____ WEATHER: _____ 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																
3																
4																
5	S 150°	1769	D	90 37 08			4.0		+20.9		162.8	(141.9)			SP200	← Ref. Pg. 28
6			R	269 23 00			4.0		+23.1		165.0				CK	
7	S 249	449		91 25 44			4.0		-10.2		141.6				SP201	
8		0		-			6.2		-15.7		152.0				SP201	247.9
9	101°	871		91 08 49			4.0		-5.2		159.0				N4143@SP201+247.9	
10	231°	2191	D	90 26 12			4.0		-25.5		137.3				202	
11			R	269 34 12			4.0		-22.0		140.7				SP203	
12															CK	
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 30
 LINE No.(s) 7XS PARTY No. 182 DATE 11 Day 4 Mo. Yr. BOOK No. 4
 SURVEYOR MONAHAN RODMAN WEATHER: P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OP.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2		2310										140.7		Ref. Pg. 29		
3	S	2600		89 54 50				+4.0	+0.3		144.4	144.4		○ SP 203		} Short spread 990'
4				87 06 04			4.0							Δ		
5	S	1320		90 55 27			4.7		-25.3			115.7		CK	204	
6		0		-			5.5		-5.5			135.5			205	
7	N	1320		89 49 08			4.0		+0.3		144.4	144.4		○	206	
8				87 01 29			4.0					140.3		CK		
9	S	3190		90 42 26			+4.0		+48.5		187.9	187.9		Δ		
10				89 47 18			4.0					183.8		CK		
11	S	935		91 47 04			4.0		-33.3			150.5			207	
12		0		-			5.2		-5.2			178.6		Δ	207 + 935	
13	N	385		90 17 28			4.0		-6.0			177.8			208	
14	N	1540		89 58 33			4.8		-4.0			179.8		○	N+1440 SP 208 + 1155	
15				87 01 09			4.8					183.9		CK		
16	S	1485		89 25 04			+4.8		-10.4		184.5	183.5		Δ		
17				87 03 30			4.8					176.4		CK		
18	S	1320		89 30 49			4.0		+7.2			176.4			209	
19		0		-			5.8		-5.1			183.4		○	210	
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 31
 LINE No.(s) 7XS PARTY No. 182 DATE 11 Day 4 Mo. 75 Yr. BOOK No. 4
 SURVEYOR MOUHOH RODMAN _____ WEATHER: _____ 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														
3														
4														
5		2475	D 89 44.13											
6			R 270 15.59											
7		2310	89 54.09											
8		990	90 14.11											
9		0	-											
10		990	89 39.41											
11		2970	89 20.53											
12		3372	D 89 14.23											
13			R 270 45.59											
14														
15														
16														
17														
18														
19														
20														

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