

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 1
 LINE No.(s) 136 PARTY No. 1182 DATE 7 Day 4 Mo. 76 Yr. BOOK No. _____
 SURVEYOR HELANDER RODMAN MYERS 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	Correction			Center Hair	INST.			
1															
2															
3															
4	S	1320	90°	04'35"											
5	"	2640	89°	53'00"											
6	"	"	270°	06'35"											
7	N	2640													
8	"	"	90°	05'30"											
9	"	1320	90°	19'33"											
10		0													
11	S	1320	89°	40'30"											
12	"	2645	89°	34'50"											
13	"	"	270°	05'35"											
14	N	1815	89°	44'10"											
15	"	"	270°	15'30"											
16	"	1320													
17		0													
18		1320													
19		"													
20															

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 4
 LINE No.(s) 136 PARTY No. 1182 DATE 8 Day 4 Mo. 76 Yr. BOOK No. _____
 SURVEYOR HELANDER RODMAN MYERS 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	Correction	Center Hair			INST.	ROD		
1												66.5			
2														20	
3	S	1320	90°	13'10"				10.0	15.2	+15.2	81.8		Δ		
4	"	"	269°	45'40"				10.0	15.5				Δ		
5		0						HI 5.4		-5.4		76.4		21	π
6	N	1320	✓					11.6		-11.6		70.2	⊙	22	
7	"	"	90°	03'55"				10.0	-11.5				⊙		
8	S	3135	✓					8.2		+8.2	78.4		Δ		
9	"	"	90°	03'25"				5.0	8.3				Δ		
10	"	1815	90°	31'15"				4.0		-20.6		57.8	-	23	
11	"	495	90°	53'35"				4.0		-11.7		66.7	-	24	
12		0												+495	π
13	N	825	90°	39'50"				4.0		-13.6		64.8	-	25	
14	"	2145	✓					12.8		-12.8		65.6	⊙	26	
15	"	"	90°	04'25"				10.0	-12.9				⊙		
16	S	2640	90°	17'15"				10.0	23.4	+23.7	89.3		Δ		
17	"	"	269°	41'55"				10.0	24.0				Δ		
18	"	1320	90°	32'30"				4.0		-16.5		72.8	-	27	
19		0						HI 5.4		-5.4		83.9		28	
20	N	1320	90°	10'25"				4.0		-8.0		81.3	-	29	

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 SURVEYOR HELANDER RODMAN MYERS WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												78.9				
2																
3	N	1320	89°	44'00"				5.0	1.1	+1.1		80.0	⊙	18		
4	"	"	270°	16'10"				5.0	1.2				⊙			
5	S	1320	89°	32'00"				5.0	-5.7	-5.6	74.4		Δ			
6	"	"	270°	27'20"				5.0	-5.5				Δ			
7		0						H1 5.4		-5.4		69.0		19	π	
8	N	1320	✓					7.9		-7.9		66.5	⊙	20		
9	"	"	90°	07'30"				5.0	-7.9				⊙			
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 2
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 SURVEYOR HELANDER RODMAN MYERS 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	Correction	Center Hair			INST.	ROD		
1												62.5		8	
2															
3	S	2640	✓					6.5		+6.5	69.0		Δ		
4	"	"	89° 55' 10"					10.0	6.4				Δ ₁		
5	"	1320	90° 10' 00"					4.0		-7.9		61.1	-	9	
6		0								-5.4		63.6		10	π
7	N	1320	90° 08' 15"					4.0		-7.2		61.8	-	11	
8	"	2640	89° 52' 38"					5.0	0.5	+0.6		69.6	⊙	12	
9	"	"	270° 07' 40"					5.0	0.7				⊙ ₁		
10	S	2145	90° 21' 30"					10.0	23.5	+23.6	93.2		Δ		
11	"	"	269° 38' 08"					10.0	23.7				Δ ₁		
12	"	825	90° 37' 40"					4.0		-18.1		80.1	-	13	
13		0												+825	?
14	N	495	91° 06' 55"					4.0		-13.6		78.6	-	14	
15	"	1815	90° 26' 18"					10.0	-24.0	-23.9		69.3	⊙	15	
16	"	"	269° 34' 08"					10.0	-23.7				⊙ ₁		
17	S	2640	✓					9.5		+9.6	78.9		Δ		
18	"	"	89° 54' 25"					14.0	9.9				Δ ₁		
19	"	1320	89° 53' 50"					4.0		-1.7		77.2	-	16	
20		0								-5.4		73.5		17	π

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 SURVEYOR HELLANDER RODMAN MYERS WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadio 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.	ROD			
1												89.3				
2																
3	N	2145	✓					12.8		-12.8		76.5	⊙	29+825		
4	"	"	90°	04'30"				10.0	-12.9				⊙			
5	S	1320	88°	55'05"				10.0	-14.9	-14.8	61.7		Δ			
6	"	"	87°	04'30"				10.0	-14.7				Δ			
7	"	825	✓					4.4		-4.4		57.3	-	30		
8		0												+825		
9	N	495	89°	45'20"				4.0		-3.2		58.5	-	31		
10	"	1320	89°	10'40"				14.0	4.9	+4.9		66.6	⊙	+825		
11	"	"	270°	49'00"				14.0	4.8				⊙			
12	S	1320	90°	20'60"				10.0	17.7	+17.7	84.3		Δ			
13	"	"	269°	40'00"				10.0	17.7				Δ			
14	"	825	76°	30'11"				4.0		-11.3		73.0	-	32		
15		0												+825	π	?
16	N	495	90°	57'45"				4.0		-12.3		72.0	-	33		
17	"	1815	90°	12'20"				10.0	-16.6	-16.5		67.8	⊙	34		
18	"	"	269°	48'00"				10.0	-16.4				⊙			
19																
20																

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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.	ROD		
1												67.8			
2														34	
3	S	2640	✓					4.3		+4.3	72.1		Δ		
4	"	"		89° 58' 55"				5.0	4.3				Δ ₁		
5	"	1320	✓					4.4		-4.4		67.7	-	35	
6		0						5.4		-5.4		66.7		36	κ
7	N	1320		90° 09' 00"				4.0		-7.5		64.6	-	37	
8	"	2640	✓					13.4		-13.4		58.7	⊙	38	
9	"	"		90° 04' 20"				10.0	-13.5				⊙ ₁		
10	S	2640		89° 29' 15"				5.0	-18.5	-18.6	40.1		Δ		
11	"	"		270° 31' 00"				5.0	-18.7				Δ ₁		
12	"	1320	✓					5.1		-5.1		35.0	-	39	
13		0						5.4		-5.4		34.7		40	κ MARKER P.I.P.E
14	N	1320		90° 08' 15"				4.0		-7.2		32.9	-	41	
15	"	2640	✓					6.6		-6.6		33.5	⊙	42	
16	"	"		90° 02' 05"				5.0	-6.7				⊙ ₁		
17	S	2640	✓					7.8		+7.6	41.1		Δ		
18	"	"		89° 56' 45"				10.0	7.7				Δ ₁		
19	"	1320	✓					7.3		-7.3		33.8	-	43	
20		0						5.4		-5.4		35.7		44	κ

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 7
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 SURVEYOR HELANDER RODMAN MYERS 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												41.1				
2																
3	N	1320	90°	16'00"				4.0		-10.2		30.9	-	45		
4	"	2640	89°	56'35"				10.0	-7.5	-7.4		33.7	0	46		♀
5	"	"	✓					7.4					0			
6	S	825	90°	29'45"				10.0	17.2	+17.2	50.9		Δ			
7	"	"	267°	30'40"				10.0	17.1				Δ			
8		0													46+825 π	♀
9	N	495										16.2	-	47	SAME AS 48 (+2)	
10	"	1815	90°	50'30"				10.0	-36.7	-36.7		14.2	0	48		
11	"	"	267°	09'25"				10.0	-36.8				0			
12	S	825	91°	05'00"				14.0	29.6	+29.6	43.8		Δ			
13	"	"	268°	55'05"				14.0	29.6				Δ			
14		0													48+825 π	
15	N	495	91°	31'40"				4.0		-17.2		26.6	-	49		
16	"	1815	✓					14.1		-14.1		29.7	0	50		
17	"	"	90°	01'50"				10.0	-14.2				0			
18	S	2640	✓					6.8		+6.8	36.5		Δ			
19	"	"	89°	55'50"				10.0	6.9				Δ			
20	"	1320	90°	05'00"				4.0		-6.0		30.5	-	51		

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5.4 -5.4 31.1 52 π

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 LINE No.(s) 135 PARTY No. 1182 DATE 9 Day 4 Mo. 76 Yr. BOOK No. _____
 SURVEYOR HELANDER RODMAN MYERS 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	Correction	Center Hair			INST.	ROD			
1			NEW ELEV TAKEN FROM SP							1-26						
2															54	
3	N	1320	90°	16'16"				10.0		16.3	+16.3			Δ		
4	"	"	269°	43'25"				10.0		16.4				Δ		
5	"	0													53	✓
6	N	✓						5.4			-5.4				56	✓
7								14.0			-14.0				57	✓
8																
9																
10																
11																
12												41.3			54	
13	S	2640	89°	51'30"				10.0		3.6	+3.5	44.8		Δ		
14	"	"	270°	08'45"				10.0		3.4				Δ		
15	"	1320	89°	58'45"				4.0			-3.6	41.2			55	
16	"	0									-5.4	39.4			56	✓
17	N	1320	90°	05'00"				4.0			-6.0	38.8			57	
18	"	2640	✓					3.7			-3.8	41.0		⊙	58	
19	"	"	89°	58'20"				5.0			-3.9			⊙		
20																

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 SURVEYOR HELANDER RODMAN MYERS 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											41.0			
2	S	2640	✓					4.0	+4.1	45.1		Δ	58	
3	"	"	89° 58' 45"					5.0	4.2			Δ		
4	"	1320	90° 06' 30"					4.0	-6.5		38.6	-	59	
5		0						HI	5.4		39.7		60	π
6	N	1320	89° 56' 10"					4.0	-2.6		42.5	-	61	
7	"	2640	89° 56' 00"					5.0	-2.1	-2.0	43.1	0	62	
8	"	"	270° 04' 25"					5.0	-1.8			0		
9	S	2640	✓					12.5	+12.5	55.6		Δ		
10	"	"	90° 03' 15"					10.0	12.6			Δ		
11	"	1320	90° 25' 20"					4.0	-13.8		41.8	-	63	
12		0						HI	5.4		50.2		64	π
13	N	1320	90° 41' 05"					10.0	-25.8		29.8	-	65	
14	"	2640	90° 28' 00"					10.0	-31.6	-31.3	24.3	0	66	
15	"	"	269° 33' 00"					10.0	-30.9			0		
16	S	1385	✓					8.4	+8.4	32.7		Δ		
17	"	"	90° 08' 25"					5.0	8.4			Δ		
18	"	65	75° 54' 25"					4.0	-10.7		22.0	-	67	
19		0											+05	π
20	N	1255	90° 46' 50"					4.0	-21.7		11.6	-	68	

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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.	ROD		
1												32.7			
2															
3	N	2080	89°	34' 50"				5.0	10.1	+10.1		42.8	⊙	68+	825
4	"	"	270°	25' 00"				5.0	10.0				⊙		
5	S	1815	90°	03' 15"				14.0	15.8	+15.7	58.5		Δ		
6	"	"	269°	57' 15"				14.0	15.5				Δ		
7	"	1320	90°	37' 55"				4.0		-18.6		39.9	-	69	
8		0						HI	5.4	-5.4		53.1		70	π ↑
9	N	1320	90°	13' 10"				4.0		-9.1		49.4	-	71	
10	"	2640	90°	08' 11"				10.0	-16.4	-16.3		42.2	⊙	72	
11	"	"	269°	52' 05"				10.0	-16.2				⊙		
12	S	2640	89°	56' 30"				5.0	2.5	+2.5	44.7		Δ		
13	"	"	270°	03' 20"				5.0	2.6				Δ		
14	"	1320	✓					4.5		-4.5		40.2	-	73	
15		0						HI	5.4	-5.4		39.3		74	π
16	N	1320	✓					7.0		-7.0		37.7	⊙	75	
17	"	"	90°	05' 00"				5.0	-7.0				⊙		
18	S	1326	✓					6.2		+6.2	43.9		Δ		
19	"	"	90°	03' 08"				5.0	6.2				Δ		
20		0						HI	5.4	-5.4		38.5		76	π ↑

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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												43.9			
2															
3	N	1320	89°	41' 14"				5.0	2.2	+2.3		46.2	⊙	77	9
4	"	"	270°	19' 30"				5.0	2.5				⊙		
5	S	2640	89°	52' 15"				5.0	-0.8	-0.9	45.3		Δ		
6	"	"	270°	08' 00"				5.0	-1.0				Δ		
7	"	1320	90°	08' 55"				4.0		-7.5		37.8	-	78	
8		0						5.4		-5.4		39.9		79	π
9	N	1320	89°	26' 05"				4.0		+9.0		54.3	-	80	
10	"	2640	89°	25' 50"				10.0	16.1	+16.4		61.7	⊙	81	
11	"	"	270°	35' 00"				10.0	16.7				⊙		
12	S	2640	✓					10.0		+10.0	71.7		Δ		
13	"	"	90°	06' 27"				5.0	10.1				Δ		
14	"	1320	90°	11' 55"				4.0		-8.6		63.1	-	82	
15		0						5.4		-5.4		66.3		83	π
16		1320	90°	19' 20"				4.0		-11.5		60.2	-	84	9
17		2640	✓					13.2		-13.2		58.5	⊙	85	
18	"	"	90°	04' 05"				10.0	-13.3				⊙		
19															
20															

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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													58.5			
2															85	
3	S	2640	✓						2.4		+2.4	60.9		Δ		
4	"	"	89°	56'30"					5.0	2.5				Δ		
5	"	1320	90°	03'10"					4.0		-5.3		55.6	-	86	
6		0						HI	5.4		-5.4		55.5	-	87	X
7	N	1320	90°	07'12"					4.0		-6.8		54.1	-	88	
8	"	2640	✓						8.8		-8.9		52.0	⊙	89	
9	"	"	90°	05'00"					5.0	-9.0				⊙		
10	S	2640	✓						3.6		+3.7	55.7		Δ		
11	"	"	89°	58'11"					5.0	3.8				Δ		
12	"	1320	89°	56'30"					4.0		-2.7		53.0	-	90	
13		0						HI	5.4		-5.4		51.3	-	91	X
14	N	1320	89°	55'20"					4.0		-2.2		53.5	-	92	9
15	"	2145	89°	58'05"					14.0	-12.9	-12.9		42.8	⊙	+825	
16	"	"	270°	02'05"					14.0	-12.8				⊙		
17	S	1815	89°	35'30"					5.0	-7.9	-7.9	34.9		Δ		
18	"	"	270°	24'25"					5.0	-7.8				Δ		
19	"	1320	89°	36'55"					4.0		+4.8		39.7	-	93	
20		0						HI	5.4		-5.4		29.5	-	94	X

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AREA NPR - 4 STATE or PROVINCE ALASKA PAGE No. 14
 LINE No.(s) 136 PARTY No. 1182 DATE 9 Day 4 Mo. 76 Yr. BOOK No. _____
 SURVEYOR HELANDER RODMAN MYERS 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.	ROD			
1												34.9				
2																
3	N	1320	✓						5.6		-5.6		29.3	0	95	
4	"	"		89° 48' 22"					10.0		-5.6			0		
5	"	1115	✓						3.8		+3.8	33.1		Δ		L-136 SP 95+1115
6	"	"		89° 56' 15"					5.0	3.8				Δ		L-56 SP 170+1083
7																95+1115 T INT
8	E	1083	✓						6.8		-6.8		26.3	-	170	L-56 ↑ 30.4
9	W	237	✓						6.5		-6.5		26.6	-	171	MARKER PIPE 30.4
10													30.4			ELEV SP 171
11													-3.8			MISTIE
12																
13																
14	N	205		90° 37' 10"					4.0		-6.2		26.9	-	96	
15	"	1525	✓						8.3		-8.3		24.8	0	97	
16	"	"		90° 07' 30"					5.0		-8.4			0		
17	S	2640		89° 54' 14"					5.0	0.7	+0.5	25.3		Δ		
18	"	"		270° 06' 15"					5.0	0.3				Δ		
19	"	1320		89° 57' 40"					4.0		-3.1		22.2	-	98	
20		0							5.4		-5.4		19.9	-	99	X

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 15
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 SURVEYOR HELANDER RODMAN MYERS 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												25.3				
2																
3	N	1320	90°	02' 30"				4.0		-5.4		19.9	-	100		
4	"	2640	89°	36' 45"				14.0	3.7	+3.8		29.1	⊙	101		
5	"	"	270°	23' 27"				14.0	3.9				⊙			
6	S	2640	✓					4.5		+4.5	33.6		Δ			✓
7	S	"	89°	59' 12"				5.0	+4.5				Δ			
8	"	1320	✓					5.1		-5.1		28.5	-	102		
9		0						5.4		-5.4		28.2	-	103	X	
10	N	1320	90°	07' 05"				4.0		-6.8		26.3	-	104		
11	"	2640	✓					11.7		-11.7		21.9	⊙	105		
12	"	"	90°	02' 00"				10.0		-11.7			⊙			
13																
14																
15																
16																
17																
18																
19																
20																

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 16
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 SURVEYOR HELANDER RODMAN MYERS 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													21.9			
2															105	
3	S	1320	90°	29'45"					10.0	21.5	+21.5	43.4		Δ		
4	"	"	269°	30'22"					10.0	21.4				Δ		
5		0						HI	5.4		-5.4		38.00		106	π
6	N	1320	90°	09'45"		(.28)			4.0	-3.7	-7.8		38.60	-	107	
7	"	2640	✓			(.07)			6.8		-6.8		36.6	⊙	108	
8	"	"	90°	02'20"		↓			5.0	-6.8				⊙		
9	S	2640	✓						11.5		+11.5	48.11		Δ		
10	"	"	90°	01'57"		(.06)			10.0	11.6				Δ		
11	"	1320	90°	05'30"		(.16)			4.0		-6.1		42.00	-	109	
12		0						HI	5.4		-5.4		42.77		110	π
13	N	1320	90°	03'22"		(.10)			4.0		-5.3		42.88	-	111	
14	"	2640	✓						6.0		-6.0		42.1	⊙	112	
15	"	"	90°	01'15"					5.0	-6.1				⊙		
16	S	2640	✓						6.5		+6.5	48.6		Δ		
17	"	"	90°	01'55"					5.0	6.6				Δ		
18	"	1320	90°	06'10"					4.0		-6.4		42.2	-	113	
19		0						HI	5.4		-5.4		43.2		114	π
20	N	1320	✓						3.3		-3.3		46.3	-	115	

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 SURVEYOR HELANDER RODMAN MYERS 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												48.6				
2															116	
3	N	2640	✓						4.5	-4.5		44.1	⊙			
4	"	"	89°	52'40"		(.20)			10.0	-4.5			⊙			
5	S	2640	✓						7.9	+7.9	52.0		Δ			
6	"	"	89°	57'10"		(.09)			10.0	8.0			Δ			
7	"	1320	90°	06'50"					4.0	-6.7		45.33	-	117		
8		0						HI	5.4	-5.4		46.66	-	118	X	
9	N	1320	✓						4.7	-4.7		47.33	-	119		
10	"	2640	89°	54'25"					5.0	-0.9	-0.9	52.11	⊙	120		
11	"	"	270°	05'30"					5.0	-0.9			⊙			
12	S	1320	96°	29'25"					10.0	21.3	+21.2	72.33	Δ			
13	"	"	269°	31'15"					10.0	21.1			Δ			
14		0						HI	5.4	-5.4		66.97	-	121	X	
15	N	1320	90°	13'50"					4.0	-9.3		63.00	-	122		
16	"	2640	✓						4.2	-4.2		68.11	⊙	123		
17	"	"	89°	58'50"					5.0	-4.3			⊙			
18	S	2640	89°	39'50"					10.0	-5.3	-5.3	62.81	Δ			
19	"	"	270°	20'00"					10.0	-5.2			Δ			
20	"	1320	90°	23'45"					4.0	-5.5		52.33	-	124		

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 SURVEYOR HELANDER RODMAN MYERS 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												62.0				
2																
3		0						H1	5.4		-5.4	57.4		125	X	
4	N	1320		90° 04' 55"					4.0		-5.9	56.71	-	126		
5	"	2640	✓						8.0		-8.0	54.8	0	127		
6	"	"		89° 57' 10"					10.0	-8.0			0			
7	S	2640	✓						6.3		+6.3	61.1				
8	"	"		89° 55' 11"					10.0	6.4						
9	"	1320		90° 03' 45"					4.0		-5.5	55.66	-	128		
10		0						H1	5.4		-5.4	58.71		129	X	
11	N	1320	✓						5.2		-5.2	58.97	-	130		
12	"	2640	✓						5.6		-5.6	55.5	0	131		
13	"	"		89° 54' 15"					10.0	-5.7			0			
14	S	2640	✓						2.8		+2.9	58.4				
15	"	"		89° 57' 10"					5.0	3.0						
16	"	1320	✓						3.0		-3.0	55.41	-	132		
17		0						H1	5.4		-5.4	53.00		133	X	
18	N	1320		90° 04' 35"					4.0		-5.8	52.62	-	134		
19	"	2640	✓						10.3		-10.3	48.11	0	135		
20	"	"		90° 06' 50"					5.0	-10.4			0			

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 SURVEYOR HELANDER RODMAN MYERS 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.	ROD.		
1															
2												48.1		135	
3	S	2640	90°	08'05"				10.0	16.4	+16.4	64.55		Δ		
4	"	"	269°	51'40"				10.0	16.5				Δ		
5	"	1320	90°	31'10"				4.0		-16.0		48.55	-	136	
6		0						HI	5.4			59.11		137	X
7	N	1320	90°	16'30"				4.0		-10.4		54.11	-	138	
8	"	2640	✓					13.6		-13.6		50.9	⊙	139	
9	"	"	90°	04'33"				10.0	-13.6				⊙		
10	S	1320	✓					5.9		+5.9	56.8		Δ		
11	"	"	89°	49'05"				10.0	5.8				Δ		
12		0						HI	5.4			51.44		140	X
13	N	1320	✓					5.1		-5.1		51.71	-	141	
14	"	2640	✓					4.1		-4.1		52.7	⊙	142	LAST SP ON LINE
15	"	"	89°	58'45"				5.0	-4.2				⊙		MARKER PIPE
16															
17															
18															
19															
20															

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