

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Misheguk STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 1 OF \_\_\_\_\_  
 LINE/LOOP NO. 741 TYPE SURVEY \_\_\_\_\_ CLIENT \_\_\_\_\_ DATE 20 DY 2 MO 80 YR  
 SURVEYOR M. Rood INSTRUMENT DESC/SERIAL NO \_\_\_\_\_ CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						ELEVATION		LIR OR D/I	RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD				
			SLOPE 	HORIZ 										
1												1	TBM 90109	
2												2	Elevation	
3	Δ	SP 100	4125		89-18-39	6.0	-43.6	1904.5				3	(1904.1)	
4		TBM 80109 (89)										4		
5	Δ	TG 12 (86)	2860		89-22-03	4.0	+29.6		1932.1		1931.9	5		
6		TS 24 (76)	1540		89-27-18	4.0	+10.6		1915.1		1914.8	6		
7		TS 36 (64)	220		89-35-21	4.0	-2.4		1902.1		1901.7	7		
8	⊙	TS 48 (52)	1100		266-50-19	8.0	-68.6		1835.9		1956.7	8	END OF TRAVERSE	
9	⊙						(52.6)		1948.1		STARTING	9	ELEVATION	
10	Δ	SP 100	2200		90-30	12.7	31.9					10	TBM 80109	
11	✓				269-30	12.7	31.9	1980.0				11		
12		SP 101	1760		269-30	10.3	+25.7		1954.3			12		
13		SP 102	1320		269-30	9.6	+21.1		1958.9			13		
14		SP 103	880		269-30	4.8	-12.5		1969.5			14		
15		SP 104	440		269-30	3.0	-6.8		1973.2			15		
16		SP 105	0		90-00	5.3	-5.3		1974.7			16		
17												17		

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SYMBOLS    Δ = BACKSIGHT    ⊎ = INSTRUMENT SET-UP    SS = SIDESHOT    ⊙ = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Misheguk STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 2 OF \_\_\_\_\_  
 LINE/LOOP NO. 741 TYPE SURVEY \_\_\_\_\_ CLIENT \_\_\_\_\_ DATE 20 DY 2 MO 80 YR  
 SURVEYOR M. Rood INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL							ELEVATION		LR OR DR	HORIZONTAL RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS	
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION							
			SLOPE 	HORIZ 					INST	ROD						
1														1		
2		SP 106	440		91-20	33	-13.5						1966.5		2	
3		SP 107	880		91-20	8.4	-28.9						1951.1		3	
4		SP 108	1320		91-20	8.4	-39.1						1940.9		4	
5		SP 109	1760		90-40	8.4	-28.9						1951.1		5	
6		SP 110	2200		90-00	10.0	-10.0						1970.0		6	
7	⊙	SP 111	2640		89-30	6.2	+16.8								7	
8	✓				270-30	6.0	+13.0 <sup>+16.9</sup>						1996.9	(1997.0)	8	
9	Δ	SP 111	1320		89-30	11.9	+0.4								9	
10	✓				270-30	11.8	+0.3 ✓			1997.2					10	
11		SP 112	880		270-30	3.9	+3.8						2001.0		11	
12		SP 113	448		270-30	1.7	+2.1						1999.3		12	
13		SP 114	0		90-00	5.5	-5.5						1991.7		13	
14		SP 115	440		90-00	10.8	-10.8						1986.4		14	
15		SP 116	880		90-20	11.9	-17.0						1980.2		15	
16		SP 117	1320		90-20	12.3	-20.0						1977.2		16	
17															17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Misheguk STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 3 OF \_\_\_\_\_  
 LINE/LOOP NO. 174 TYPE SURVEY \_\_\_\_\_ CLIENT \_\_\_\_\_ DATE 20 DY 2 MO 80 YR  
 SURVEYOR M. Rood INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> ⚓ <input type="checkbox"/> ⊙	STATION	VERTICAL						ELEVATION		L/R OR D/I	HORIZONTAL RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD				
			SLOPE 	HORIZ 										
1												1		
2		SP118	1760		90-20	70.5	-	20.7			1976.5		2	
3		SP119	2200		90-20	8.2	-	21.0			1976.2		3	
4	⊙	SP120	2640		90-10	11.0	-	18.7					4	
5	✓				269-30	10.9	-	18.6 ✓			1978.6	(1978.7)	5	
6	Δ	SP120	1320		90-20	9.4	+	17.1					6	
7	✓				269-30	5.6	+	17.1	1995.7				7	
8		SP121	880		269-30	7.2	-	14.9			1980.8		8	
9		SP122	440		269-30	6.0	-	9.8			1985.9		9	
10		SP123	0		90-00	5.5	-	5.5			1990.2		10	
11		SP124	440		89-40	4.0	-	1.4			1994.3		11	
12		SP125	880		89-40	3.0	+	0.1			1995.8		12	
13		SP126	1320		89-40	9.2	-	1.5			1994.2		13	
14	⊙	TBM 80110	1400		89-40	9.8	-	1.7					14	
15	✓				270-20	9.7	-	1.6 ✓			1994.1		15	
16											1994.2		16	
17											0.1	Vertical	17	Tie

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## HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Misheguk STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 4 OF \_\_\_\_\_  
 LINE/LOOP NO. 741 TYPE SURVEY \_\_\_\_\_ CLIENT \_\_\_\_\_ DATE 20 DY 2 MO 80 YR  
 SURVEYOR M. Rood INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						ELEVATION		L/R OR D/I	RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF.	FINAL ELEVATION DIFF	INST	ROD				
			SLOPE 	HORIZ 										
1												1		
2	Δ	TBM 80110	650			89-10	5.4	- 4.1					2	
3	✓					271-00	7.2	- 4.1	1990.1				3	
4		SP 127	275			271-00	5.0	- 0.2		1989.9			4	
5			0			90-00	5.5	- 5.5		<del>1984.6</del>			5	
6		SP 128	165			96-10	8.2	- 25.8		1964.3			6	
7		SP 129	605			95-20	10.5	- 66.5		1923.6			7	
8		SP 130	1045			95-00	4.5	- 95.2		1894.9			8	
9		SP 131	1485			93-20	11.4	- 99.6		1892.5			9	
10		SP 132	1925			93-00	4.6	- 105.2		1884.9			10	
11	⊙	SP 133	2365			92-40	7.9	- 117.8 ✓					11	
12	✓					267-20	7.8	- 117.7		1892.3	1872.5		12	
13	Δ	SP 133	2206			89-20	5.1	- 20.5 ✓					13	
14	✓					270-40	5.0	- 20.6	1851.8				14	
15		SP 134	1760			270-40	3.9	+ 16.6		1868.4			15	
16		SP 135	1320			270-40	4.3	+ 11.1		1862.9			16	
17													17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Misheguk STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 5 OF \_\_\_\_\_  
 LINE/LOOP NO. 741 TYPE SURVEY \_\_\_\_\_ CLIENT \_\_\_\_\_ DATE 20 DY 2 MO 80 YR  
 SURVEYOR M. Rood INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						ELEVATION		LR OR DR	HORIZONTAL		REMARKS
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD		RIGHT TURNED HORIZONTAL ANGLE	LINE	
				SLOPE										
1													1	
2		SP 136	880		270-40	5.8	+ 4.4		1856.2				2	
3		SP 137	440		270-40	4.7	+ 0.4		1852.2				3	
4		SP 138	0		90-00	5.5	- 5.5		1846.3				4	
5		SP 139	440		91-50	4.1	- 18.2		1833.6				5	
6		SP 140	880		90-20	10.0	- 15.1		1836.7				6	
7		SP 141	1320		89-10	10.8	+ 8.4		1860.2				7	
8		SP 142	1760		89-10	7.8	+ 17.8		1869.6				8	
9		SP 143	2200		88-50	12.4	+ 32.4		1884.2				9	
10	⊙	SP 144	2640		88-40	10.7	+ 50.7						10	
11	✓				271-20	10.2	+ 51.2 <sup>+ 51.0</sup>		1902.8		1903.0		11	
12	Δ	SP 144	440		91-20	8.2	+ 18.4						12	
13	✓				268-40	8.2	+ 18.4	1921.2					13	
14		SP 145	0		90-00	5.5	- 5.5		1915.7				14	
15													15	
16													16	
17													17	

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## HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Misheguk STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 6 OF \_\_\_\_\_  
 LINE/LOOP NO. 741 TYPE SURVEY \_\_\_\_\_ CLIENT \_\_\_\_\_ DATE 20 DY 2 MO 80 YR  
 SURVEYOR M. Rood INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 118C

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						ELEVATION		L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD				
			SLOPE 	HORIZ 										
1												1		
2												2		
3		SP 146	440			88-40	7.8	+ 2.4			1923.6		3	
4		SP 147	880			88-40	4.8	+ 15.7			1936.9		4	
5	⊙	SP 147 + 375	1250			88-40	3.4	+ 25.7					5	TBM 8011
6	✓					291-20	3.4	+ 25.7			1946.9		6	
7											1947.2		7	
8											0.3	Vertical	8	Tie
9													9	
10	Δ	SP 147 + 375	<del>1480</del>			91-00	2.0	+ 18.4					10	TBM 8011
11	✓		970			269-20	7.5	+ 18.4	1965.6				11	
12		148	880			269-20	8.5	- 18.7 (13.0)			1946.9	1952.0	12	
13		149	440			269-30	5.3	- 9.1			1956.5		13	
14		150	0			90-00	5.5	- 5.5			1960.1		14	
15		151	440			90-50	5.1	- 11.5			1954.1		15	
16		152	880			90-50	3.3	- 18.1			1947.5		16	
17													17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Misheguk STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 7 OF 17  
 LINE/LOOP NO. 741 TYPE SURVEY \_\_\_\_\_ CLIENT \_\_\_\_\_ DATE 20 DY 2 MO 80 YR  
 SURVEYOR M. Rood INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						ELEVATION		L/R OR DI	HORIZONTAL		REMARKS
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD		RIGHT TURNED HORIZONTAL ANGLE	LINE	
				SLOPE										
1		1											1	
2													2	
3		153	132.8			90-50	5.4	-	24.6		1941.0		3	
4	⊙	154	1760			90-21-20	15.0	-	25.9				4	
5	✓					269-38-17	15.0	-	25.8	✓	1939.8	1940.2	5	
6	Δ	154	1595			89-40	9.0	-	0.3				6	
7	✓					270-20	8.8	-	0.5 <sup>0.4</sup>		1939.4		7	
8		155	1155			270-20	5.7	+	1.0		1940.4		8	
9		156	715			270-20	4.4	-	0.2		1939.2		9	
10		157	275			270-20	9.8	-	8.2		1931.2		10	
11		157 + 275	0				5.5	-	5.5		1933.9		11	
12		158	165			91-50	8.6	-	13.9		1925.5		12	
13		159	605			91-10	8.1	-	20.4		1919.0		13	
14		160	1045			91-16	13.2	-	34.5		1904.9		14	
15		161	1485			91-30	12.0	-	50.9		1888.5		15	
16		162	1925			91-30	13.7	-	50.4		<del>1889.0</del>	1875.4	16	
17									(69.0)				17	

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## HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Misheguk STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 8 OF 17  
 LINE/LOOP NO. 747 TYPE SURVEY \_\_\_\_\_ CLIENT \_\_\_\_\_ DATE 23 DY 2 MO 80 YR  
 SURVEYOR M. Rood INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						ELEVATION		L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD				
			SLOPE 	HORIZ 										
1												1		
2	⊙	163	2365			91-40	9.6	- 78.4				2		
3	✓					268-20	9.2	- 78.0 <sup>-78.2</sup>		1861.2	11861.8	3		
4	Δ	163	2200			88-30	10.5	- 47.1				4		
5	✓					271-30	10.1	- 47.5 <sup>-47.3</sup>	1813.9			5		
6		164	1760			271-10	3.6	+ 10.9		1824.8	1846.3	6		
7		165	1320			271-10	5.7	+ 21.2		1835.1		7		
8		166	880			271-10	8.9	+ 9.0		1822.9		8		
9		167	440			270-00	13.4	- 13.4		1800.5		9		
10		168	0			90-00	5.5	- 5.5		1808.4		10		
11		169	440			88-50	4.7	+ 4.3		1818.2		11		
12	⊙	170	880			88-40	7.3	+ 13.2 ✓				12		
13	✓					271-20	7.2	+ 13.3		1827.1	1827.7	13		
14	Δ	170	1485			91-10	9.4	+ 37.6				14		
15	✓					269-00	11.4	+ 37.3 <sup>37.5</sup>	1864.6			15		
16												16		
17												17		






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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Misheguk STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 9 OF 17  
 LINE/LOOP NO. 741 TYPE SURVEY \_\_\_\_\_ CLIENT \_\_\_\_\_ DATE 23 DY 2 MO. 80 YR  
 SURVEYOR M. Rood INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE		STATION	VERTICAL						ELEVATION		LIR OR DIR	RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE		VERTICAL ANGLE OBS. 	ROD RDG OR HI	ELEV DIFF 	FINAL ELEVATION DIFF	INST	ROD				
			SLOPE 	<input type="checkbox"/> FEET <input type="checkbox"/> METERS HORIZ 										
1												1		
2												2		
3		171	104.5		269-00	12.8	-	31.0		1833.6		3		
4		172	60.5		268-40	12.8	-	26.9		1837.7		4		
5		173	16.5		268-40	9.2	-	13.0		1851.6		5		
6		173 + 165	0		90-00	5.5	-	5.5		1859.1		6		
7		174	27.5		89-40	7.1	-	5.5		1859.1		7		
8		175	71.5		89-40	4.6	-	0.4		1864.2		8		
9	⊙	TBM 80113	10.30		89-40	4.7	+	1.3				9		
10	✓	TBM			270-20	4.5	+	1.5 + 1.4		1866.0		10		
11										1866.6		11		
12										0.6	Vertical	12	Tie	
13												13		
14												14		
15												15		
16												16		
17												17		

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STADIA SURVEY NOTES

AREA Misheguk STATE AK PAGE No. 10 of 17  
 LINE No. 741 PARTY No. 1186 DATE 23 Day 2 Mo. 80 yr. BOOK No. \_\_\_\_\_  
 SURVEYOR M. Rood RODMAN \_\_\_\_\_ WEATHER \_\_\_\_\_ P.T.S. No. \_\_\_\_\_



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Δ BS O FS - SS	Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD				
①													1866.6				
Δ	TBM 80113	2325		89-10				+8.1		-25.7							
✓				290-50				+7.7		-26.1 <sup>1.9</sup>		1840.7					
	176	2200		270-40				-1.5		+24.1			1864.8				
	177	1760		270-40				-4.0		+16.5			1857.2				
	178	1320		270-40				-5.1		+10.3			1851.0				
	179	880		270-40				-11.7		-1.5			1839.2				
	180	440		270-40				-11.8		-6.7			1834.0				
	181	0	✓					-5.5		-5.5			1835.2				
	182	440		90-10				-3.5		-1.3			1839.4		1835.8		
	183	880		90-10				-12.2		-14.8			1825.9				
	184	1320		90-10				-8.4		-12.2			1828.5				
①	185	1760		90-10				-12.6		-17.7							
✓				269-56				-12.3		-17.4 <sup>1.6</sup>			1823.1		1823.55		
Δ	185	1920		89-30				+5.4		-11.4							
✓				290-30				+5.0		-11.8 <sup>1.6</sup>		1811.5					
	186	1480		270-30				-5.3		+7.6			1819.1				
	187	1040		270-30				-12.5		-3.2			1808.3				

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STADIA SURVEY NOTES

AREA Misheguk STATE AK PAGE No. 11 of 17  
 LINE No. 741 PARTY No. 1186 DATE 23 Day 2 Mo. 80 yr. BOOK No. \_\_\_\_\_  
 SURVEYOR M. Road RODMAN \_\_\_\_\_ WEATHER \_\_\_\_\_ P.T.S. No. \_\_\_\_\_



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
	188	645		290-30					-7.9	-	2.3		1809.2			
	189	205		290-30					-11.2	-	9.4		1802.1			
	189+205	0	✓						-5.5	-	5.5		1806.0			
	190	235		94-40					-8.9	-	28.0		1783.5			
	191	695		94-40					-9.4	-	64.1		1747.4			
	192	1115		94-00					-13.1	-	90.9		1720.8			
	193	1555		94-00					-11.2	-	119.4		1692.1			
	194	1995		94-00					-6.0	-	144.8		1666.7			
0	195	2435		94-00					-2.4	-	171.8					
✓				266-10					-9.2	-	171.6		1639.8	1640.8		
Δ	195	246		86-50					-9.5	-	136.1					
✓		2640		273-10					+8.9	-	136.7	1503.4				
	196	2200		273-10					-6.8	+	114.5		1617.9			
	197	1760		273-10					-1.7	+	95.4		1598.8	1618.1		
	198	1320		273-10					-6.7	+	66.1		1567.5			
	199	880		273-10					-12.0	+	36.5		1539.9			
	200	440		273-10					-9.0	+	15.3		1518.7			
	201	0	✓						-5.5	-	5.5		1497.9			

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STADIA SURVEY NOTES

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 LINE No. 741 PARTY No. 1186 DATE 23 Day 2 Mo. 80 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR M. Rood RODMAN WEATHER P.T.S. No. \_\_\_\_\_



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		BS FS SS	Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD				
	202	440		92-10				4.5		-21.1		1482.3					
	203	880		92-10				9.1		-42.3		1461.7					
	204	1320		92-10				10.1		-60.0		1443.4					
	205	1760		92-10				11.8		-78.3		1425.1					
0	206	2200		92-10				12.4		-95.5		1416					
✓	207			267-40				5.6		-95.1 <sup>1.3</sup>		1408.1		1409.45			
Δ	206	880		88-10				2.7		-25.4		1					
✓				271-50				2.5		-256 <sup>1.5</sup>	1382.6						
	207	440		271-50				5.1		+9.0		1391.6					
	208	0	✓					5.5		-5.5		1377.1					
	209	440		91-40				10.2		-23.0		1359.6					
0	TBM 180114	465		91-40				11.1		-24.6 ✓							
✓				268-20				11.0		-24.5		1358.0					
												1359.8					
												1.8		Vertical	Tie		

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STADIA SURVEY NOTES

AREA Misheguk STATE AK PAGE No. 13 of 17  
 LINE No. 741 PARTY No. 1186 DATE 23 Day 2 Mo. 80 Yr.  
 SURVEYOR M. Rood RODMAN WEATHER P.T.S. No.



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		BS - FS SS	Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hoir Read	Reading	Correction	Center Hoir			INST.	ROD				
0																	
Δ	TBM80114	1735		87-40				+8.2		-62.4			1359.8				
∇				272-26				+7.9		-62.7 <sup>1/3</sup>		1299.3					
	210	1320		272-20				-5.0		+48.9			1346.0				
	211	880		272-20				-2.7		+33.1			1330.4				
	212	440		272-20				-3.6		+14.3			1311.0				
	213	0	✓					-5.5		-5.5			1291.8				
	214	440		92-40				-14.6		-35.0			1262.3				
	215	880		92-40				-10.2		-51.1			1246.2				
	216	1320		90-50				-11.4		-30.6			1266.7				
	217	1760		90-20				-16.0		-20.2			1277.1				
0	218	2200	✓	90-00				-13.8		-13.8							
✓			✓	270-00				-13.5		-13.5 <sup>1/4</sup>			1283.6		1287.3		
Δ	218	1760		90-10				-10.4		+15.5							
✓				269-50				+16.1		+15.2 <sup>1/4</sup>		1299.0					
	219	1320	✓	270-00				-7.8		-7.8			1291.2				
	220	880	✓	270-00				-4.9		-4.9			1294.1				
	221	440	✓	270-00				-5.1		-5.1			1293.9				
	222	0	✓					-5.5		-5.5			1293.5				

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AREA Misheguk STATE AK PAGE No. 14 of 17  
 LINE No. 741 PARTY No. 1186 DATE 23 Day 2 Mo. 80 Yr.  
 SURVEYOR M. Rood RODMAN WEATHER P.T.S. No.



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
	223	440	✓	90-00				-6.6		-6.6		1292.4				
	224	880	✓					-8.4		-8.4		1290.6				
	225	1320	✓					-9.5		-9.5		1289.5				
●	226	1760	✓	90-00				-10.8		-10.8		1288.2				
○	227	2200	✓	90-00				-10.8		-10.8						
✓			✓	270-00				-10.5		-10.5 <sup>19</sup>		1288.3		1289.1		
△	227	1760		90-20				+12.5		+22.7						
✓				269-40				+12.3		+22.5 <sup>16</sup>		1310.9				
	228	1320		269-40				-10.5		-18.2		1292.7				
	229	880		269-40				-9.9		-15.0		1295.9				
	230	440		269-40				-9.1		-11.7		1299.2				
	231	0	✓					-5.5		-5.5		1305.4				
	232	440		89-40				-3.5		+2.6		1313.5				
	233	880		89-40				-2.6		+5.1		1316.0		1310.1		
	234	1320		89-40				-2.2		+5.5		1316.4		1313.5		
	235	1760		89-40				-2.2		+8.0		1318.9				
⊙	TBM 0115	1900		89-46				-3.0		+8.1						
✓				270-20				-2.8		+8.3 <sup>1.2</sup>		1319.1				
												1319.9				

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 LINE No. 741 PARTY No. 1186 DATE 23 Day 2 Mo. 80 Yr.  
 SURVEYOR M. Rood RODMAN WEATHER P.T.S. No.



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD.			
Δ	TBM 80115	2040		89-50				4.1		-1.8			1319.9			
✓				270-10				3.7		-2.2	2.0	1317.9				
	236	1760		270-10				3.2		+1.9		1319.8				
	237	1320		270-10				4.3		-0.5		1317.4				
	238	880		270-10				8.6		-6.0		1311.9				
	239	440		270-10				7.2		-5.9		1312.0				
	240	0	✓					5.5		-5.5		1312.4				
	241	440	✓					6.0		-6.0		1311.9				
	242	880	✓					5.9		-5.9		1312.0				
	243	1320	✓					2.8		-2.8		1315.1				
	244	1760		89-50				6.7		-1.6		1316.3				
⊙	245	2200		89-50				10.7		-4.3		1313.8				
✓				270-10				10.3		-3.9	4.1	1313.8				
Δ	245	2200	✓	90-00				12.7		+12.7						
✓				270-03				14.0		+12.1	2.4	1326.2				
	246	1760		270-10				10.9		-5.8		1320.4				
	247	1320		270-10				5.5		-1.9		1324.5				

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AREA Misheguk STATE AK PAGE No. 16 of 17  
 LINE No. 741 PARTY No. 1186 DATE 23 Day 2 Mo. 80 yr. BOOK No. \_\_\_\_\_  
 SURVEYOR M. Rood RODMAN \_\_\_\_\_ WEATHER \_\_\_\_\_ P.T.S. No. \_\_\_\_\_



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
	248	880	✓						-1.6	-	1.6		1324.6			
	249	440	✓						-7.1	-	7.1		1319.1			
	250	0	✓						-5.5	-	5.5		1320.7			
	251	440		89-20					-7.6	-	2.5		1323.7			
	252	880		89-20					-7.3	+	2.9		1329.1			
	253	1320		89-20					-6.4	+	9.0		1335.2			
	254	1760		89-20					-5.1	+	15.4		1341.6			
⊙	255	2200		89-20					-5.6	+	20.0					
✓				270-40					-5.3	+	20.3 <sup>+20.1</sup>		1346.3			
Δ	255	1760		90-40					+2.3	+	22.8					
✓				269-20					-2.0	+	22.5 <sup>1.0</sup>	1368.9				
	256	1320		269-20					-4.0	-	19.4		1349.5			
	257	880		269-20					-5.1	-	15.3		1353.6			
	258	440		269-20					-5.9	-	11.0		1357.9			
	259	0	✓						-5.5	-	5.5		1363.4			
	260	440		89-30					-5.1	-	1.3		1367.0			
	261	880		89-30					-3.9	+	3.8		1372.7			
	262	1320		89-30					-3.2	+	8.3		1377.2			

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 LINE No. 741 PARTY No. 1186 DATE 23 Day 2 Mo. 80 Yr.  
 SURVEYOR M. Rood RODMAN WEATHER P.T.S. No.



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
⊙	263	1760		89-30				-5.0		+10.4						
✓				270-30				-4.7		+10.7 <sup>1.5</sup>		1379.4				
Δ	263	2200		89-40				+2.3		-10.5						
✓				270-20				+2.1		-10.7 <sup>1.6</sup>		1368.8				
	264	1760		270-20				-5.0		+5.2		1374.0				
	265	1320		270-20				-6.9		+0.8		1369.6				
	266	880		270-20				-5.4		-0.3		1368.5				
	267	440		270-20				6.0		-3.4		1365.4				
	268	0	✓					-5.5		-5.5		1363.3				
	269	440		90-10				-9.2		-10.5		1358.3				
	270	880		90-10				-6.3		-8.9		1359.9				
	271	1320		90-10				-9.1		-12.9		1355.9				
⊙	272	1760		90-10				-8.8		-13.9						
✓			✓	270-00				-13.7		-13.7 <sup>1.8</sup>		1355.0				
Δ	272	1265		89-50				+3.4		-0.3		1354.9				
1784	TS 12	0	✓					-5.5		-5.5		1349.2				
1790	TS 24	1320		269-20				-7.0		-19.4		1335.3				
308	TS 36	2640		269-20-31				-4.0		-34.3		1320.4				
320	TS 48	3960		269-23-20				-4.0		-46.2		1308.5				

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