

STADIA SURVEY NOTES

AREA N.P.R. - 4 STATE or PROVINCE ALASKA PAGE No. 1
 LINE No.(s) 019-77 PARTY No. 1173 DATE 30 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR T. SHERILL RODMAN R. SMITH WEATHER: PRTLY CLDY - LIGHT SNOW FLUIDS 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 | Hoir Read | Reading | Correc-tion | Center Hoir | | | INST. | ROD | | | |
| 1 | | | | | NORTH FROM | | | 019 | 09 | | | 654.8 | TBM | 019-09 | | |
| 2 | S | 990 | | 89 | 40 | 30 | | | 9.0 | | +7.2 | 658.0 | | Δ = T.S. 1 | | |
| 3 | | ✓ | | 270 | 20 | 30 | | | 9.0 | | | | | Δ | | |
| 4 | | 0 | ✓ | | | | | | 5.0 | | -5.0 | 653.0 | T | T.S. 1 + 990 | | |
| 5 | N | 770 | | 92 | 05 | 20 | | | 15.0 | | -43.0 | 615.0 | | T.S. 2 | | |
| 6 | | 2530 | | 93 | 01 | 30 | | | 15.0 | | -148.3 | 509.7 | | T.S. 3 | | |
| 7 | | 4290 | | 90 | 38 | 20 | | | 15.0 | | -61.9 | 546.1 | 0 | T.S. 4 | | |
| 8 | | ✓ | | 269 | 23 | 10 | | | 15.0 | | | | | 0 | | |
| 9 | S | 1760 | | 90 | 24 | 40 | | | 15.0 | | +27.2 | 623.3 | | Δ | | |
| 10 | | / | | 269 | 37 | 00 | | | 15.0 | | | | | Δ | | |
| 11 | | 0 | ✓ | | | | | | 5.0 | | -5.0 | 618.3 | T | T.S. 5 | | |
| 12 | N | 1760 | | 89 | 39 | 30 | | | 4.0 | | +6.5 | 629.8 | 0 | T.S. 6 | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | SOUTH FROM | | | 019 | 09 | | | | | 654.8 | TBM | 019-09 | |
| 16 | N | 990 | | 88 | 37 | 10 | | | 8.0 | | -16.0 | 638.8 | | Δ = T.S. 1 | | |
| 17 | | ✓ | | 271 | 24 | 00 | | | 8.0 | | | | | Δ | | |
| 18 | | 0 | ✓ | | | | | | 5.0 | | -5.0 | 633.8 | T | SOL - MINUS 770' (N OF SOL) | | |
| 19 | S | 580 | | 92 | 49 | 00 | | | 15.0 | | -43.5 | 595.3 | | S.P. 7 - OLD 1-19 | | |
| 20 | | | | | | | | | | | | | | | | |

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STADIA SURVEY NOTES

AREA N.P.R. - 4 STATE or PROVINCE ALASKA PAGE No. 2
 LINE No.(s) 019-77 PARTY No. 1173 DATE 30 Day MAR No. 77 Yr. BOOK No. _____
 SURVEYOR T. SHERBILL RODMAN R. SMITH WEATHER: LIGHT SNOW FUMMIES 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 | | | | | | | | | | | | 638.8 | | | | |
| 2 | S | 770 | | 93 21 45 | | | | 15.07 | | -60.0 | | 578.8 | 0 | 501 | | 578.7 |
| 3 | | ✓ | | 266 39 20 | | | | 15.07 | | | | | 0 | | | |
| 4 | N | 1870 | | 88 57 50 | | | | 1.07 | | -33.1 | | 545.7 | Δ | | | |
| 5 | | ✓ | | 271 03 20 | | | | 1.07 | | | | | Δ | | | |
| 6 | | 1100 | | 90 31 30 | | | | 15.0 | | -25.1 | | 520.6 | | 501 + 770 | | |
| 7 | | 110 | ✓ | | | | | 4.7 | | -4.7 | | 541.0 | | 502 | | |
| 8 | | 0 | ✓ | | | | | 5.0 | | -5.0 | | 540.7 | π | 502 + 110 | | |
| 9 | S | 880 | | 92 25 00 | | | | 15.07 | | -51.2 | | 493.8 | 0 | 502 + 990 | | 493.5 |
| 10 | | ✓ | | 267 36 30 | | | | 15.07 | | | | | 0 | | | |
| 11 | N | 3300 | | 89 58 15 | | | | 2.07 | | -0.2 | | 493.6 | Δ | | | |
| 12 | | ✓ | | 270 02 55 | | | | 2.07 | | | | | Δ | | | |
| 13 | | 2530 | | 90 24 10 | | | | 15.0 | | -32.8 | | 460.8 | | 503 | | |
| 14 | | 1100 | | 91 42 20 | | | | 15.0 | | -47.7 | | 445.9 | | 503 + 1430 | | |
| 15 | | 770 | | 91 10 45 | | | | 15.0 | | -30.8 | | 462.8 | | 504 | | |
| 16 | | 0 | ✓ | | | | | 5.0 | | -5.0 | | 488.6 | π | 504 + 770 | | |
| 17 | S | 660 | ✓ | | | | B | 13.4 | -3.37 | -16.6 | | 477.0 | 0 | 504 + 1430 | | 476.5 |
| 18 | | ✓ | ✓ | | | | B | 13.2 | -3.37 | | | | 0 | | | |
| 19 | N | 1540 | | 88 11 20 | | | | 2.07 | | -47.0 | | 430.0 | Δ | | | |
| 20 | | ✓ | | 271 59 20 | | | | 2.07 | | | | | Δ | | | |

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STADIA SURVEY NOTES

AREA N.P.R. - 9 STATE or PROVINCE ALASKA PAGE No. 3
 LINE No.(s) 019-77 PARTY No. 1173 DATE 30 Day MAR No. 77 Yr. BOOK No. _____
 SURVEYOR T. SHERIDAN RODMAN R. SMITH WEATHER: SNOW FLURRIES 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 | | | | | | | | | | | | 430.0 | | | | |
| 2 | N | 1210 | | 88 54 20 | | | | | 2.0 | +20.4 | | 450.4 | | 505 | | |
| 3 | | 660 | | 92 10 40 | | | | | 15.0 | -40.7 | | 389.9 | ✓ | 505 + 550 | | |
| 4 | | 0 | ✓ | | | | | | 5.0 | -5.0 | | 425.0 | ✓ | 505 + 1210 | | |
| 5 | S | 550 | ✓ | | | T | 6.1 | +2.8 | | -3.3 | | 426.7 | ✓ | 506 | | 426.1 |
| 6 | | ✓ | ✓ | | | T | 6.0 | +1.8 | | | | | | 0 | | |
| 7 | N | 1269 | ✓ | | | | | | 12.3 | +12.0 | | 438.7 | | Δ | | |
| 8 | | ✓ | ✓ | | | | | | 11.7 | | | | | Δ | | |
| 9 | | 719 | | 92 18 20 | | | | | 15.0 | -43.9 | | 394.8 | | 506 + 550 | | |
| 10 | - | 0 | ✓ | | | | | | 5.0 | -5.0 | | 433.7 | ✓ | 506 + 1269 | | |
| 11 | - | 0 | ✓ | | | | | | 5.0 | -5.0 | | 433.7 | ○ | 019-08 | | |
| 12 | - | 0 | ✓ | | | | | | 5.0 | | | | ○ | 506 + 1269 | | 433.0 |
| 13 | | | | | | | | | | | | 433.0 | | BARR SURVEY | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | +0.7 | MISTIE | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | 433.0 | | TBM 019-08 | | |
| 18 | 0 | 0 | ✓ | | | | | | 5.0 | +5.0 | | 438.0 | | Δ = S.P. 506 + 1869 | | |
| 19 | 0 | 0 | ✓ | | | | | | 5.0 | | | | | Δ | | |
| 20 | 0 | 0 | ✓ | | | | | | 5.0 | -5.0 | | 433.0 | ✓ | 506 + 1269 | | |

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STADIA SURVEY NOTES

AREA N.P.L. - 4 STATE or PROVINCE ALASKA PAGE No. 4
 LINE No.(s) 019-77 PARTY No. 1173 DATE 30 Day MON Mo. 17 Yr. BOOK No. _____
 SURVEYOR T. SHERKILL RODMAN R. SMITH WEATHER: SNOW FLURRIES 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 | | | | | | | | | | | | 438.0 | | | |
| 2 | S | 491 | | 90 24 10 | | | | 15.0 | | -18.4 | | 412.6 | Q | 507 | 419.7 |
| 3 | | ✓ | | 269 36 20 | | | | 15.0 | | | | | Q | | |
| 4 | N | 2250 | | 89 37 20 | | | | 2.0 | | -11.8 | 402.8 | | Δ | | |
| 5 | | ✓ | | 270 24 20 | | | | 2.0 | | | | | Q | | |
| 6 | 1760 | 1760 | | 90 23 40 | | | | 15.0 | | -27.1 | | 375.7 | | 507+ | 1500 990 |
| 7 | 990 | 1210 | | 90 23 20 | | | | 15.0 | | -23.4 | | 379.4 | | 508 | |
| 8 | | 660 | | 93 27 20 | | | | 15.0 | | -54.7 | | 348.1 | ✓ | 508+ | 330 |
| 9 | | 0 | ✓ | | | | | 5.0 | | -5.0 | | 397.8 | π | 508+ | 990 |
| 10 | S | 770 | | 88 54 30 | | | | 2.0 | | +11.5 | | 414.3 | | 509 | |
| 11 | | 1980 | | 88 49 40 | | | | 8.0 | | +33.0 | | 435.2 | Q | 509+ | 1210 436.5 |
| 12 | | ✓ | | 271 12 00 | | | | 8.0 | | | | | Q | | |
| 13 | N | 2310 | | 90 06 50 | | | | 15.0 | | +19.0 | 454.8 | | Δ | | |
| 14 | | ✓ | | 269 54 50 | | | | 15.0 | | | | | Δ | | |
| 15 | | 1760 | ✓ | | | | | 13.7 | | -13.7 | | 441.1 | | 510 | |
| 16 | | 0 | ✓ | | | | | 5.0 | | -5.0 | | 449.8 | π | 511 | |
| 17 | Q | 1760 | ✓ | | | | | 13.0 | | -12.7 | | 446.1 | Q | 512 | 443.4 |
| 18 | | ✓ | | | | | | 12.3 | | | | | Q | | |
| 19 | N | 3520 | | 90 01 02 | | | | 15.0 | | +15.5 | 457.6 | | Δ | | |
| 20 | | ✓ | | 270 00 20 | | | | 15.0 | | | | | Δ | | |

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STADIA SURVEY NOTES

AREA N.P.R. 4 STATE or PROVINCE ALASKA PAGE No. 5
 LINE No.(s) 019-77 PARTY No. 1173 DATE 21 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR _____ RODMAN R. SMITH WEATHER: CLEAR P.T.S. No. _____

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER | | | ROD READING | | | | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS | | Station | REMARKS |
|------|------------------|-----------------|-------------------|-----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|------------------------|---------|
| | | | Level | Inclined | Angle or Factor | Hair Read | Reading | Correc-tion | Center Hair | | | INST. | ROD | | |
| 1 | | | | | | | | | | | | 457.6 | | | |
| 2 | N | 1760 | | 91 25 50 | | | | 15.0 | | -58.9 | | 328.7 | | 513 | |
| 3 | | 1430 | | 92 11 30 | | | | 15.0 | | +69.6 | | 388.0 | | 513+330 | |
| 4 | | 0 | ✓ | | | | | 5.0 | | -5.0 | | 452.6 | π | 514 | |
| 5 | S | 1760 | | 89 05 20 | | | | 4.0 | | +24.0 | | 481.6 | | 515 | |
| 6 | | 3520 | | 88 55 25 | | | | 2.0 | | +65.0 | | 522.6 | 0 | 514 | 524.9 |
| 7 | | ✓ | | 271 06 20 | | | | 2.0 | | | | | 0 | | |
| 8 | N | 2750 | | 91 37 35 | | | | 15.0 | | +92.5 | 615.1 | | Δ | | |
| 9 | | ✓ | | 208 23 45 | | | | 15.0 | | | | | Δ | | |
| 10 | | 1540 | | 92 30 50 | | | | 15.0 | | -85.2 | | 529.9 | | 516+1210 | |
| 11 | | 990 | | 92 34 10 | | | | 15.0 | | -59.3 | | 555.8 | | 517 | |
| 12 | | 0 | ✓ | | | | | 5.0 | | -5.0 | | 610.1 | π | 517+990 | |
| 13 | S | 1770 | | 89 12 30 | | | | 1.5 | | +9.1 | | 624.2 | | 518 | |
| 14 | | 1997 | | 89 08 00 | | | | 2.0 | | +28.6 | | 643.7 | 0 | =S.P. 18+1227 - 019-07 | |
| 15 | | ✓ | | 270 53 20 | | | | 2.0 | | | | | 0 | =S.P. 107+1612 - 072 | |
| 16 | | | | | | | | | | | | 646.7 | | BAR SURVEY | 646.7 |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | -3.0 | | MISSE | |
| 20 | | | | | | | | | | | | | | | |

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STADIA SURVEY NOTES

AREA N.P.R. - 4 STATE or PROVINCE ALASKA PAGE No. 6
 LINE No.(s) 019-77 PARTY No. 1173 DATE 29 Day MAR No. 77 Yr. BOOK No. _____
 SURVEYOR T. SHERKILL RODMAN R. SMITH WEATHER: CLEAR - MOVING SNOW P.T.S. No. _____

| LINE | Searing 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 | N | 1963 | | 88 23 40 | | | | 150.7 | | -40.5 | 606.2 | 646.7 | | | TBA 019-7 | |
| 3 | | ✓ | | 271 38 10 | | | | 150.7 | | | | | | | | Δ = 519 + 1227 - 019 |
| 4 | | 1430 | | 88 28 00 | | | | 3.0 | | +35.3 | | 641.5 | | 519 | | Δ = 519 + 1612 - 072 |
| 5 | | 0 | ✓ | | | | | 5.0 | | -5.0 | | 600.2 | | π | 519 + 1430 | |
| 6 | S | 330 | | 91 08 40 | | | | 15.0 | | -21.6 | | 584.6 | | 520 | | |
| 7 | | 2090 | ✓ | | | | | 11.8 | | -11.3 | | 594.9 | | 0 | 521 | |
| 8 | | ✓ | ✓ | | | | | 10.8 | | | | | | 0 | | |
| 9 | N | 1760 | | 93 05 40 | | | | 150.7 | | +109.5 | 704.4 | | | Δ | | |
| 10 | | ✓ | | 266 55 40 | | | | 15.0 | | | | | | Δ | | |
| 11 | | 0 | ✓ | | | | | 5.0 | | -5.0 | | 699.4 | | π | 522 | |
| 12 | S | 1650 | | 81 44 40 | | | | 9.0 | | +225.8 | | 930.2 | | 0 | 522 + 1650 | |
| 13 | | ✓ | | 278 16 40 | | | | 9.0 | | | | | | 0 | | 932.8 |
| 14 | N | 1540 | | 92 59 10 | | | | 15.0 | | +94.8 | 1026.0 | | | Δ | | |
| 15 | | ✓ | | 267 02 20 | | | | 15.0 | | | | | | Δ | | |
| 16 | | 1430 | | 82 50 50 | | | | 15.0 | | -85.9 | | 940.1 | | | 523 | |
| 17 | | 0 | ✓ | | | | | 5.0 | | -5.0 | | 1021.0 | | π | 523 + 1430 | |
| 18 | S | 330 | ✓ | | | | | 3.2 | | -3.2 | | 1022.8 | | | 524 | |
| 19 | | 1100 | ✓ | | | | | 18.6 | π | -18.6 | | 1007.4 | | | 524 + 770 | |
| 20 | | | | | | | | | | | | | | | | |

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STADIA SURVEY NOTES

AREA N.P.R. - 4 STATE or PROVINCE ALASKA PAGE No. 7
 LINE No.(s) 019-77 PARTY No. 1173 DATE 29 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR T. SHERMAN RODMAN R. SMITH WEATHER: CLEAR - MOONLIGHT S.N.O.W. 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 | | | | | | | | | | | | 1026.4 | | | | |
| 2 | S | 2090 | | 89 28 55 | | | | | 1.0 | +18.1 | | 1044.1 | 0 | 525 | 1045-8 | |
| 3 | | ✓ | | 270 31 50 | | | | | 1.0 | | | | 0 | | | |
| 4 | N | 550 | | 88 47 20 | | | | | 1.0 | -4.7 | 1039.4 | | Δ | | | |
| 5 | | ✓ | | 271 13 20 | | | | | 1.0 | | | | Δ | | | |
| 6 | | 0 | ✓ | | | | | | 5.0 | -5.0 | | 1034.4 | π | 525 | +550 | |
| 7 | S | 1210 | | 93 25 00 | | | | | 15.0 | +87.0 | | 952.4 | | 526 | | |
| 8 | | 2970 | | 90 23 30 | | | | | 15.0 | -34.6 | | 1004.6 | 0 | 527 | 1006.3 | |
| 9 | | ✓ | | 269 38 10 | | | | | 15.0 | | | | 0 | | | |
| 10 | N | 2530 | | 89 47 20 | | | | | 2.0 | -2.9 | 996.9 | | Δ | | | |
| 11 | | ✓ | | 270 14 10 | | | | | 2.0 | | | | Δ | | | |
| 12 | | 1540 | | 91 14 10 | | | | | 15.0 | +98.2 | | 948.7 | | 527 + 990 | | |
| 13 | | 770 | | 90 47 50 | | | | | 15.0 | -25.7 | | 971.2 | | 528 | | |
| 14 | | 0 | ✓ | | | | | | 5.0 | -5.0 | | 991.9 | π | 528 + 770 | | |
| 15 | S | 990 | | 90 52 00 | | | | | 15.0 | -29.8 | | 967.1 | 0 | 529 | 968.8 | |
| 16 | | ✓ | | 269 09 30 | | | | | 15.0 | | | | 0 | | | |
| 17 | N | 2310 | | 87 34 10 | | | | | 2.0 | -96.4 | 870.7 | | Δ | | | |
| 18 | | ✓ | | 272 27 30 | | | | | 2.0 | | | | Δ | | | |
| 19 | | 550 | | 88 56 10 | | | | | 4.0 | +6.2 | | 876.9 | | 530 | | |
| 20 | | 0 | ✓ | | | | | | 5.0 | -5.0 | | 865.7 | π | 530 + 550 | | |

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2nd _____

MS

STADIA SURVEY NOTES

AREA N.P.R. - 4 STATE or PROVINCE ALABAMA PAGE No. 8
 LINE No.(s) 019-77 PARTY No. 1173 DATE 29 Day MAN Mo. 77 Yr. BOOK No. _____
 SURVEYOR T. SHEPHERD RODMAN R. SMITH WEATHER: CLEAR P.T.S. No. _____

| L N E W | 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 | | | | | | | | | | | | 870.7 | | | | |
| 2 | S | 880 | | 91 59 00 | | | | 15.0 | | -43.1 | | 827.6 | | 530+1430 | | |
| 3 | | 1210 | ✓ | | | B | 13.6 | -6.1 | | -19.7 | | 851.0 | | 531 | | |
| 4 | | 2970 | | 88 14 40 | | | | 7.0 | | +24.6 | | 955.3 | 0 | 532 | 9568 | |
| 5 | | ✓ | | 271 46 50 | | | | 7.0 | | | | | 0 | | | |
| 6 | N | 1650 | | 88 36 40 | | | | 13.0 | | -27.6 | 9277 | | A | | | |
| 7 | | ✓ | | 271 25 00 | | | | 13.0 | | | | | A | | | |
| 8 | | 1531 | | 88 35 30 | | | | 10.0 | | +28.0 | | 955.7 | 0 | 019-06 | 957.4 | (0.2) |
| 9 | | ✓ | | 271 26 00 | | | | 10.0 | | | | | 0 | S.P. 532+119 | | |
| 10 | | | | | | | | | | | | 957.2 | | BARR SURVEY | | |
| 11 | | | | | | | | | | | | | | 1.5 MISTAKE | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | 957.2 | | T.B.M. 019-06 | | |
| 14 | N | 1531 | | 88 35 30 | | | | 11.0 | | -27.0 | 930.2 | | A | S.P. 532+119 | | |
| 15 | | ✓ | | 271 26 00 | | | | 11.0 | | | | | A | | | |
| 16 | | 0 | ✓ | | | | | 5.0 | | -5.0 | | 925.2 | 0 | 532+1650 | | |
| 17 | S | 110 | ✓ | | | | | 10.6 | | -10.6 | | 919.6 | | 533 | | |
| 18 | | 1870 | | 93 38 10 | | | | 15.0 | | -132.9 | | 797.3 | 0 | 534 | | 7975 |
| 19 | | ✓ | | 266 23 40 | | | | 15.0 | | | | | 0 | | | |
| 20 | | | | | | | | | | | | | | | | |

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STADIA SURVEY NOTES

AREA N.P.R. - 4 STATE or PROVINCE ALASKA PAGE No. 9
 LINE No.(s) 019-77 PARTY No. 1173 DATE 29 Day MAR Mo. 27 Yr. BOOK No. _____
 SURVEYOR T. SHERKILL RODMAN R. SMITH WEATHER: CLEAR P.T.S. No. _____

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER | | | ROD READING | | | | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS | | Station | REMARKS |
|------|------------------|-----------------|-------------------|-----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|------------|---------|
| | | | Level | Inclined | Angle or Factor | Hair Read | Reading | Correc-tion | Center Hair | | | INST. | ROD | | |
| 1 | | | | | | | | | | | | 797.3 | | | |
| 2 | N6 | 2090 | | 89 33 05 | | | | 1.0 | | -15.9 | 781.4 | | Δ | 534 | |
| 3 | | ✓ | | 170 28 45 | | | | 1.0 | | | | | Δ | | |
| 4 | | 330 | ✓ | | | | | 8.3 | | -8.3 | | 773.1 | | 535 | |
| 5 | | 0 | ✓ | | | | | 5.0 | | -5.0 | | 776.4 | π | 535 + 330 | |
| 6 | S | 1660 | | 90 32 00 | | | | 15.0 | | -21.1 | | 760.3 | | 535 + 990 | |
| 7 | | 1430 | | 89 33 45 | | | | 2.0 | | +8.9 | | 790.3 | | 536 | |
| 8 | | 2640 | | 88 55 05 | | | | 15.0 | | +35.5 | | 816.9 | 0 | 536 + 1210 | 817.5 |
| 9 | | ✓ | | 271 06 35 | | | | 15.0 | | | | | 0 | | |
| 10 | S | 2640 | | 87 42 50 | | | | 2.0 | | -103.8 | 713.1 | | Δ | | |
| 11 | | ✓ | | 272 18 40 | | | | 2.0 | | | | | Δ | | |
| 12 | | 2090 | | 88 02 30 | | | | 1.0 | | +70.4 | | 783.5 | | 537 | |
| 13 | | 880 | ✓ | | | | | 6.2 | | -6.2 | | 706.9 | | 537 + 1210 | |
| 14 | | 330 | ✓ | | | | | 3.0 | | -3.0 | | 710.1 | | 538 | |
| 15 | | 0 | ✓ | | | | | 5.0 | | -5.0 | | 708.1 | π | 538 + 330 | |
| 16 | S | 1430 | | 91 29 30 | | | | 15.0 | | -52.2 | | 660.9 | | 539 | |
| 17 | | 1980 | | 91 43 00 | | | | 15.0 | | -74.3 | | 638.8 | | 539 + 550 | |
| 18 | | 3190 | | 90 34 50 | | | | 15.0 | | -46.6 | | 666.5 | 0 | 540 | 667.5 |
| 19 | | ✓ | | 269 26 40 | | | | 15.0 | | | | | 0 | | |
| 20 | | | | | | | | | | | | | | | |

TI-588B

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2nd _____

STADIA SURVEY NOTES

AREA N.P.C. - 4 STATE or PROVINCE GLASSBORO PAGE No. 10
 LINE No.(s) 019-77 PARTY No. 1173 DATE 29 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR T. SHERKILL RODMAN R. SMITH WEATHER: CLEAR P.T.S. No. _____

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER | | | ROD READING | | | | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS | | AB.S. OF S. - S.S. | Station | REMARKS |
|------|------------------|-----------------|-------------------|-----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|--------------------|-----------|---------|
| | | | Level | Inclined | Angle or Factor | Hair Read | Reading | Correc-tion | Center Hair | | | INST. | ROD | | | |
| 1 | | | | | | | | | | | | 666.5 | | | | |
| 2 | N | 1760 | | 91 38 10 | | | | 150 | | +64.8 | 731.3 | | Δ | 540 | | |
| 3 | | ✓ | | 268 23 30 | | | | 150 | | | | | Δ | | | |
| 4 | | 990 | | 93 58 20 | | | | 150 | | -83.4 | | 647.9 | | 540 + 770 | | |
| 5 | | 0 | ✓ | | | | | 50 | | -50 | | 726.3 | π | 541 | | |
| 6 | S | 770 | | 89 25 50 | | | | 150 | | -2.4 | | 721.9 | 0 | 541 + 770 | 723.1 | |
| 7 | | ✓ | | 220 25 50 | | | | 150 | | | | | 0 | | | |
| 8 | N | 2200 | | 88 21 20 | | | | 1.0 | | -67.6 | 659.3 | | Δ | | | |
| 9 | | ✓ | | 271 40 20 | | | | 1.0 | | | | | Δ | | | |
| 10 | | 1210 | | 39 10 00 | | | | 2.0 | | +15.6 | | 674.9 | | 542 | | |
| 11 | | 0 | ✓ | | | | | 5.0 | | -5.0 | | 654.3 | π | 542 + 1210 | | |
| 12 | S | 550 | | 90 28 30 | | | | 150 | | -19.6 | | 639.7 | | 543 | | |
| 13 | | 2310 | | 88 31 30 | | | | 3.0 | | +56.4 | | 715.7 | | 544 | | |
| 14 | | 2460 | | 88 32 10 | | | | 4.0 | | +59.2 | | 718.5 | 0 | 019-05 | 720.0 | |
| 15 | | ✓ | ✓ | 271 29 00 | | | | 4.0 | | | | | 0 | -5.8 | 544 + 150 | |
| 16 | | | | | | | | | | | | 720.0 | | BARR SURVEY | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | +1.5 | | MISTIE | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |

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STADIA SURVEY NOTES

AREA N.P.R. 4 STATE or PROVINCE ALASKA PAGE No. 11
 LINE No.(s) 019-77 PARTY No. 1173 DATE 1 Day APR Mo. 77 Yr. BOOK No. _____
 SURVEYOR T. SHERMILL RODMAN R. SMITH WEATHER: CLEAR P.T.S. No. _____

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER | | | ROD READING | | | | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS | | B.S. OF S. - S.S. | Station | REMARKS | |
|------|------------------|-----------------|-------------------|-----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|-------------------|---------|------------|---------------------|
| | | | Level | Inclined | Angle or Factor | Hair Read | Reading | Correc-tion | Center Hair | | | INST. | ROD | | | | |
| 1 | | | | | | | | | | | | | | | | | |
| 2 | N | 2380 | | 89 31 45 | | | | | | -18.2 | 701.8 | 720.0 | | | | TBM 019-05 | |
| 3 | | ✓ | | 270 30 00 | | | | | | | | | | | | | Δ = S.A. 544 + 150. |
| 4 | | 770 | ✓ | | | | | | | -14.8 | | 687.0 | | | | | Δ |
| 5 | | 0 | ✓ | | | | | | | -5.0 | | 696.8 | | | | | 545 |
| 6 | S | 990 | | 90 50 50 | | | | | | -29.6 | | 672.2 | | | | | 545 + 770 |
| 7 | | 1760 | | 90 57 50 | | | | | | -44.6 | | 657.2 | | | | | 546 |
| 8 | | 2750 | ✓ | | | | | | | -13.8 | | 688.0 | | | | | 546 + 770 |
| 9 | | | ✓ | | | | | | | | | | | | | | 547 |
| 10 | N | 1210 | | 92 23 20 | | | | | | +65.1 | 753.1 | | | | | | Δ |
| 11 | | ✓ | | 267 38 10 | | | | | | | | | | | | | Δ |
| 12 | | 0 | ✓ | | | | | | | -3.0 | | 748.1 | | | | | 547 + 1210 |
| 13 | S | 550 | | 89 16 30 | | | | | | +5.0 | | 758.1 | | | | | 548 |
| 14 | | 2310 | ✓ | 88 25 40 | | | | | | +60.8 | | 813.9 | | | | | 549 |
| 15 | | ✓ | | 271 35 40 | | | | | | | | | | | | | Δ |
| 16 | N | 2310 | | 91 03 20 | | | | | | +52.7 | 871.0 | | | | | | Δ |
| 17 | | ✓ | | 268 58 20 | | | | | | | | | | | | | Δ |
| 18 | | 550 | ✓ | | | | | | | -14.2 | | 850.7 | | | | | 550 856.8 |
| 19 | | 0 | ✓ | | | | | | | -5.0 | | 868.6 | | | | | 550 + 330 |
| 20 | S | 1210 | | 91 33 00 | | | | | | -47.7 | | 825.9 | | | | | 551 823.3 |

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SLIGHT DISTORTION OF NUMBERS ON ROD INDICATES REFRACTOR IN A.M.

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STADIA SURVEY NOTES

AREA N.P.R. - 4 STATE or PROVINCE ALASKA PAGE No. 12
 LINE No.(s) 019-77 PARTY No. 1173 DATE 1 Day APR Mo. 77 Yr. BOOK No. _____
 SURVEYOR T. SHERMILL RODMAN R. SMITH WEATHER: CLEAR P.T.S. No. _____

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER | | | ROD READING | | | | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS | | Station | REMARKS |
|------|------------------|-----------------|-------------------|-----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|------------|---------|
| | | | Level | Inclined | Angle or Factor | Hair Read | Reading | Correc-tion | Center Hair | | | INST. | ROD | | |
| 1 | | | | | | | | | | | | 873.6 | | | |
| 2 | S | 2970 | | 91 30 40 | | | | 150 | | -92.7 | | 780.9 | 0 | 552 | 778.1 |
| 3 | | ✓ | | 268 30 40 | | | | 150 | | | | | 0 | | |
| 4 | N | 3190 | | 90 03 50 | | | | 150 | | +18.0 | | 798.9 | Δ | | |
| 5 | | ✓ | | 269 57 20 | | | | 150 | | | | | Δ | | |
| 6 | | 2200 | | 91 04 40 | | | | 150 | | -56.4 | | 742.5 | | 552 + 990 | 1760'S |
| 7 | | 1430 | | 91 09 00 | | | | 150 | | -43.7 | | 755.2 | | 553 | ↑ |
| 8 | | 0 | ✓ | | | | | 50 | | -5.0 | | 793.9 | π | 553 + 1430 | |
| 9 | S | 330 | ✓ | | | | | 6.8 | | -6.8 | | 792.1 | | 554 | ↓ |
| 10 | | 1210 | | 89 34 00 | | | | 2.0 | | +7.2 | | 806.1 | | 555 | ↓ |
| 11 | | 2090 | | 89 27 30 | | | | 50 | | +15.3 | | 814.2 | 0 | 556 | 811.5 |
| 12 | | ✓ | | 270 34 10 | | | | 50 | | | | | 0 | | 880'S |
| 13 | N | 880 | ✓ | | | | T | 58 | -4.4 | | +1.3 | 815.5 | Δ | | |
| 14 | | ✓ | | | | | T | 5.6 | -4.4 | | | | Δ | | |
| 15 | | 0 | ✓ | | | | | 50 | | -5.0 | | 810.5 | π | 557 | |
| 16 | S | 880 | | 91 32 00 | | | | 150 | | -38.5 | | 777.0 | | 558 | |
| 17 | | 1760 | | 91 56 30 | | | | 150 | | -74.6 | | 740.9 | | 559 | |
| 18 | | 2640 | | 91 57 00 | | | | 150 | | -104.3 | | 711.2 | 0 | 560 | 708.3 |
| 19 | | ✓ | | 268 04 10 | | | | 150 | | | | | 0 | | |
| 20 | | | | | | | | | | | | | | | |

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2nd _____

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STADIA SURVEY NOTES

AREA N.P.R. - 4 STATE or PROVINCE ALASKA PAGE No. 13
 LINE No.(s) 019-77 PARTY No. 1177 DATE 1 Day APR Mo. 77 Yr. BOOK No. _____
 SURVEYOR T. SHERRILL RODMAN R. SMITH WEATHER: CLEAR P.T.S. No. _____

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER | | | ROD READING | | | | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS | | Station | REMARKS |
|------|------------------|-----------------|-------------------|-----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-------|--------------------|---------|
| | | | Level | Inclined | Angle or Factor | Hair Read | Reading | Correc-tion | Center Hair | | | INST. | ROD | | |
| 1 | | | | | | | | | | | | 711.2 | 711.2 | | |
| 2 | N | 2317 | | 90 58 30 | | | | | 15.0 | +54.0 | 765.2 | | Δ | 560 | |
| 3 | | ✓ | | 269 02 45 | | | | | 15.0 | | | | Δ | | |
| 4 | | 1437 | | 91 15 10 | | | | | 15.0 | -46.4 | | 718.8 | | 561 | |
| 5 | | 557 | | 90 26 50 | | | | | 15.0 | -19.3 | | 745.9 | | 562 | |
| 6 | | 0 | ✓ | | | | | | 5.0 | -5.0 | | 760.2 | π | 562 + 557 | |
| 7 | | 0 | ✓ | | | | | | 5.0 | -5.0 | | 760.2 | 0 | 019-04 = 562 + 557 | |
| 8 | | 0 | ✓ | | | | | | 5.0 | | | | 0 | 068-08 757.4 | |
| 9 | | | | | | | | | | | | 757.8 | | BARR SURVEY | (6.4) |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | 0 | ✓ | | | | | | 5.0 | +5.0 | 762.8 | | Δ | 562 + 557 | |
| 15 | | 0 | ✓ | | | | | | 5.0 | | | | Δ | | |
| 16 | | 0 | ✓ | | | | | | 5.0 | -5.0 | | 757.8 | π | 562 + 557 | |
| 17 | S | 323 | ✓ | | | | | | 8.9 | -8.9 | | 753.9 | | 563 | |
| 18 | | 1203 | | 90 37 10 | | | | | 15.0 | -28.0 | | 734.8 | | 564 | |
| 19 | | 2083 | | 90 54 00 | | | | | 15.0 | -47.3 | | 715.5 | 0 | 565 | |
| 20 | | ✓ | | 269 07 15 | | | | | 15.0 | | | | 0 | | |

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STADIA SURVEY NOTES

AREA N.P.R. 4 STATE or PROVINCE ALASKA PAGE No. 14
 LINE No.(s) 019-77 PARTY No. 1173 DATE 1 Day APR Mo. 77 Yr. BOOK No. _____
 SURVEYOR T. SHELDON RODMAN R. SATHI WEATHER: CLEAR P.T.S. No. _____

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER | | | ROD READING | | | | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS | | ▲B.S. OF.S. -S.S. | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|-------------------|-----------------------|---------|
| | | | Level | Inclined | Angle or Factor | Hair Read | Reading | Correc-tion | Center Hair | | | INST. | ROD | | | |
| 1 | | | | | | | | | | | | 715.5 | | | | |
| 2 | N | 1210 | ✓ | | | B | 10.5 | +6.1 | | +16.4 | 731.9 | | Δ | 565 | | |
| 3 | | | ✓ | | | B | 10.0 | +6.1 | | | | | Δ | | | |
| 4 | | 006 | ✓ | | | | | | 9.3 | -9.3 | | 722.6 | | | INT = 565 + 60° - 019 | |
| 5 | N | | | | | | | | | | | | | | = 720 + 869 - 068 | |
| 6 | NW | 1120 | | 89 20 | 45 | | | | 3.0 | +9.8 | | 741.7 | | | S.P. 721 - LWE 068 | |
| 7 | N | 330 | ✓ | | | | | | 7.1 | -7.1 | | 724.8 | | | 566 | |
| 8 | | 0 | ✓ | | | | | | 5.0 | -5.0 | | 726.9 | π | | 566 + 330 | |
| 9 | S | 550 | ✓ | | | B | 3.3 | -2.8 | | -6.1 | | 725.8 | | | 567 | |
| 10 | | 1430 | | 91 15 | 15 | | | | 15.0 | -46.3 | | 685.6 | | | 568 | |
| 11 | | 2310 | | 90 53 | 10 | | | | 15.0 | -50.2 | | 681.7 | 0 | | 569 | |
| 12 | | | ✓ | 262 08 | 20 | | | | 15.0 | | | | 0 | | | |
| 13 | N | 880 | | 91 16 | 05 | | | | 15.0 | +34.3 | 716.0 | | | | | |
| 14 | | | ✓ | 268 45 | 30 | | | | 15.0 | | | | | | | |
| 15 | | 0 | ✓ | | | | | | 5.0 | -5.0 | | 711.0 | 7 | | 570 | |
| 16 | S | 880 | | 90 17 | 40 | | | | 15.0 | -19.5 | | 626.5 | | | 571 | |
| 17 | | 1760 | | 89 12 | 30 | | | | 2.0 | +22.3 | | 738.3 | | | 572 | |
| 18 | | 2640 | | 89 05 | 15 | | | | 10.0 | +32.6 | | 748.6 | 0 | | 573 | |
| 19 | | | ✓ | 270 56 | 20 | | | | 10.0 | | | | 0 | | | |
| 20 | | | | | | | | | | | | | | | | |

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STADIA SURVEY NOTES

AREA N.P.R. - 4 STATE or PROVINCE ALASKA PAGE No. 15
 LINE No.(s) 019-77 PARTY No. 1173 DATE 1 Day APR Mo. 77 Yr. BOOK No. _____
 SURVEYOR T. SHERKILL RODMAN R. SMITH WEATHER: CLEAR P.T.S. No. _____

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER | | | ROD READING | | | | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS | | Station | REMARKS |
|------|------------------|-----------------|-------------------|-----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|-----------|---------|
| | | | Level | Inclined | Angle or Factor | Hair Read | Reading | Correc-tion | Center Hair | | | INST. | ROD | | |
| 1 | | | | | | | | | | | | | | | |
| 2 | N | 1430 | | 91 47 10 | | | | | 15.0 | +59.3 | 807.9 | 748.6 | Δ | 573 | |
| 3 | | ✓ | | 268 14 10 | | | | | 15.0 | | | | Δ | | |
| 4 | | 550 | | 90 35 35 | | | | | 15.0 | -20.7 | | 787.2 | | 574 | |
| 5 | | 0 | ✓ | | | | | | 5.0 | -5.0 | | 802.9 | ✓ | 574 + 550 | |
| 6 | S | 330 | ✓ | | | | | | 8.6 | -8.6 | | 799.3 | | 575 | |
| 7 | | 1210 | ✓ | | | | B | 12.7 | -6.1 | | | 789.4 | 0 | 576 | |
| 8 | | ✓ | ✓ | | | | B | 12.1 | -6.1 | | | | 0 | | |
| 9 | N | 1210 | | 89 41 00 | | | | | 3.0 | -4.0 | 785.4 | | Δ | | |
| 10 | | ✓ | | 270 10 30 | | | | | 3.0 | | | | Δ | | |
| 11 | | 330 | | 89 37 30 | | | | | 2.0 | +0.2 | | 785.6 | | 577 | |
| 12 | | 0 | ✓ | | | | | | 5.0 | -5.0 | | 780.4 | ✓ | 577 + 330 | |
| 13 | S | 550 | | 91 39 00 | | | | | 15.0 | -30.8 | | 754.6 | | 578 | |
| 14 | | 1430 | | 92 48 00 | | | | | 15.0 | -85.1 | | 700.3 | | 579 | |
| 15 | | 2310 | | 92 02 00 | | | | | 15.0 | -96.4 | | 689.0 | 0 | 580 | |
| 16 | | ✓ | | 267 59 25 | | | | | 15.0 | | | | 0 | | |
| 17 | N | 2640 | | 89 27 45 | | | | | 15.0 | -10.3 | 678.7 | | Δ | | |
| 18 | | ✓ | | 270 33 40 | | | | | 15.0 | | | | Δ | | |
| 19 | | 1760 | | 89 24 40 | | | | | 15.0 | +3.1 | | 681.8 | | 581 | |
| 20 | | 880 | | 89 30 20 | | | | | 2.0 | +5.6 | | 684.3 | | 582 | |

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STADIA SURVEY NOTES

AREA N.A.R. - 1 STATE or PROVINCE ALASKA PAGE No. 16
 LINE No.(s) 019-77 PARTY No. 1123 DATE 1 Day APR Mo. 77 Yr. BOOK No. _____
 SURVEYOR T. SHELLILL RODMAN R. SMITH WEATHER: CLEAR P.T.S. No. _____

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER | | | ROD READING | | | | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS | | B.S. OF S. - S.S. | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|-------------------|---------|---------|
| | | | Level | Inclined | Angle or Factor | Hair Read | Reading | Correc-tion | Center Hair | | | INST. | ROD | | | |
| 1 | | | | | | | | | | | | 678.7 | | | | |
| 2 | | 0 | ✓ | | | | | | 5.0 | -5.0 | | 673.7 | X | 583 | | |
| 3 | S | 880 | ✓ | | | | | | 11.2 | -11.2 | | 667.5 | | 584 | | |
| 4 | | 1760 | ✓ | | | | B | 7.7 | -8.8 | | | 662.2 | | 585 | | |
| 5 | | 2310 | | 90 | 22 | 20 | | | 15.0 | -29.6 | | 649.1 | 0 | 585 + 530 | | ✓ |
| 6 | | ✓ | | 269 | 38 | 50 | | | 15.0 | | | | 0 | | | |
| 7 | N | 1210 | | 91 | 28 | 10 | | | 15.0 | +45.8 | | 624.9 | | Δ | | |
| 8 | | ✓ | | 268 | 33 | 20 | | | 15.0 | | | | | Δ | | |
| 9 | | 880 | | 92 | 25 | 40 | | | 15.0 | -52.2 | | 642.7 | | 586 | | |
| 10 | | 550 | | 94 | 17 | 20 | | | 15.0 | -56.0 | | 638.9 | | 586 + 530 | | |
| 11 | | 0 | ✓ | | | | | | 5.0 | -5.0 | | 689.9 | X | 587 | | |
| 12 | S | 880 | | 89 | 15 | 15 | | | 4.0 | +7.5 | | 702.4 | | 588 | | |
| 13 | | 1430 | | 89 | 14 | 10 | | | 15.0 | +4.4 | | 699.3 | 0 | 588 + 550 | | |
| 14 | | ✓ | | 270 | 47 | 30 | | | 15.0 | | | | 0 | | | |
| 15 | N | 2640 | | 89 | 36 | 30 | | | 5.0 | -13.5 | | 685.8 | | Δ | | |
| 16 | | ✓ | | 270 | 24 | 40 | | | 5.0 | | | | | Δ | | |
| 17 | | 2310 | | 89 | 43 | 10 | | | 2.0 | +9.3 | | 695.1 | | 589 | | |
| 18 | | 1430 | ✓ | | | | T | 7.2 | +7.7 | | +0.5 | 686.3 | | 390 | | |
| 19 | | 550 | ✓ | | | | | | 3.6 | -3.6 | | 682.2 | | 591 | | |
| 20 | | 0 | ✓ | | | | | | 5.0 | -5.0 | | 680.8 | X | 591 + 550 | | |

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STADIA SURVEY NOTES

AREA N.P.R. - 4 STATE or PROVINCE ALASKA PAGE No. 17
 LINE No.(s) 019-77 PARTY No. 1173 DATE 1 Day APR Mo. 77 Yr. BOOK No. _____
 SURVEYOR T. SHERMAN RODMAN R. SMITH WEATHER: CLEAR P.T.S. No. _____

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER | | | ROD READING | | | | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS | | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|------------------|---------|
| | | | Level | Inclined | Angle or Factor | Hair Read | Reading | Correc-tion | Center Hair | | | INST. | ROD | | |
| 1 | | | | | | | | | | | | 685.8 | | | |
| 2 | S | 330 | ✓ | | | | | | 7.0 | -7.2 | | 678.8 | | 592 | |
| 3 | | 1210 | ✓ | | | | T | 4.9 | +6.2 | +1.3 | | 687.1 | | 593 | |
| 4 | | 2000 | | 89 | 45 | 00 | | | 15.0 | -5.4 | | 680.4 | 0 | 594 | |
| 5 | | ✓ | | 270 | 16 | 35 | | | 15.0 | | | | 0 | | |
| 6 | N | 2310 | | 89 | 40 | 10 | | | 30 | -10.9 | | 662.5 | | | |
| 7 | | ✓ | | 270 | 21 | 30 | | | 30 | | | | | | |
| 8 | | 1903 | ✓ | | | | T | 4.8 | +9.5 | +5.2 | | 674.7 | 0 | 019-03 | |
| 9 | | ✓ | ✓ | | | | T | 3.8 | +9.5 | | | | 0 | = S.R. 594 + 487 | |
| 10 | | | | | | | | | | | | 674.6 | | BARR SURVEY | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | +0.1 | | MISTIE | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | 674.6 | | TBM 019-03 | |
| 15 | N | 1903 | ✓ | | | | T | 4.8 | -9.5 | -5.2 | | 662.4 | | A = 594 + 487 | |
| 16 | | ✓ | ✓ | | | | T | 3.8 | -9.5 | | | | | | |
| 17 | | 1930 | ✓ | | | | | | 71 | -7.1 | | 662.3 | | 595 | |
| 18 | | 550 | ✓ | | | | | | 130 | -13.0 | | 656.4 | | 596 | |
| 19 | | 0 | ✓ | | | | | | 510 | -5.0 | | 664.4 | T | 596 + 550 | |
| 20 | S | 330 | ✓ | | | | B | 14.4 | -1.7 | -16.1 | | 653.3 | | 597 | |

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STADIA SURVEY NOTES

AREA NAR - 4 STATE or PROVINCE ALASKA PAGE No. 18
 LINE No.(s) 019-77 PARTY No. 1173 DATE 1 Day APRIL Mo. 77 Yr. BOOK No. _____
 SURVEYOR G. SHILLICK RODMAN R. SMITH WEATHER: CLEAR P.T.S. No. _____

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER | | | ROD READING | | | | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS | | ▲B.S. OF.S. -S.S. | Station | REMARKS |
|------|------------------|-----------------|-------------------|-----------|-----------------|-------------|---------|-------------|--------------------|---------------------|-------------------|------------|-----|-------------------|---------|---------|
| | | | Level | Inclined | Angle or Factor | Hair Read | Reading | Correc-tion | Center Hair | | | INST. | ROD | | | |
| 1 | | | | | | | | | | | | 669.4 | | | | |
| 2 | S | 1100 | | 91 59 00 | | | | | 15.0 | | -50.2 | 619.2 | | | 597+770 | |
| 3 | | 1210 | | 91 05 10 | | | | | 15.0 | | -37.9 | 631.5 | | | 598 | |
| 4 | | 2090 | ✓ | | | T | 14.6 | +11.0 | | | -3.2 | 666.2 | 0 | | 599 | 665.6 |
| 5 | | ✓ | ✓ | | | T | 13.8 | +11.0 | | | | | 0 | | | |
| 6 | N | 990 | ✓ | | | | | | 8.4 | | +8.2 | 674.4 | | Δ | | |
| 7 | | ✓ | ✓ | | | | | | 8.0 | | | | | Δ | | |
| 8 | | 110 | ✓ | | | | | | 5.4 | | -5.4 | 669.0 | | | 600 | |
| 9 | | 0 | ✓ | | | | | | 5.0 | | -5.0 | 669.4 | T | | 600+110 | |
| 10 | S | 770 | | 93 44 00 | | | | | 21.0 ⁴⁴ | | -11.0 | 603.4 | | | 601 | |
| 11 | | 1100 | | 93 45 20 | | | | | 21.0 ⁴⁴ | | -22.9 | 581.5 | | | 601+330 | |
| 12 | | 1650 | | 90 37 50 | | | | | 15.0 | | -33.2 | 641.2 | | | 602 | |
| 13 | | 2530 | | 90 22 40 | | | | | 15.0 | | -31.7 | 642.7 | | | 603 | |
| 14 | | 2860 | | 90 15 30 | | | | | 15.0 | | -27.3 | 647.1 | 0 | | 603+330 | |
| 15 | | ✓ | | 269 44 00 | | | | | 15.0 | | | | 0 | | 646.4 | |
| 16 | N | 1980 | | 88 35 20 | | | | | 3.0 | | -46.2 | 600.9 | | Δ | | |
| 17 | | ✓ | | 271 26 16 | | | | | 3.0 | | | | | Δ | | |
| 18 | | 1430 | | 88 22 50 | | | | | 3.0 | | +24.9 | 625.8 | | | 604 | |
| 19 | | 50 | ✓ | | | T | 3.2 | +2.8 | | | -0.4 | 600.5 | | | 605 | |
| 20 | | 0 | ✓ | | | | | | 5.0 | | -5.0 | 595.9 | T | | 605+550 | |

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STADIA SURVEY NOTES

AREA N.P.R. - 4 STATE or PROVINCE ALASKA PAGE No. 19
 LINE No.(s) 010-77 PARTY No. 1173 DATE 2 Day APR Mo. 77 Yr. BOOK No. _____
 SURVEYOR T. SHERKILL RODMAN R. SMITH WEATHER: CLOUDY - SNOW 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 | Correction | | | Center Hair | INST. | | | |
| 1 | | | | | | | | | | 600.9 | | | | | |
| 2 | S | 330 | ✓ | | | | | 12.6 | -12.6 | 588.3 | | | 606 | | |
| 3 | | 660 | | 91 48 30 | | | | 15.0 | -35.8 | 565.1 | | | 606 + 330 | | |
| 4 | | 1210 | | 90 57 30 | | | | 15.0 | -35.2 | 565.7 | | | 607 | | |
| 5 | | 2090 | | 91 13 20 | | | | 15.0 | -59.6 | 541.3 | | | 608 | | |
| 6 | | 2970 | | 91 13 30 | | | | 15.0 | -78.0 | 522.9 | 0 | | 609 | 522.1 | |
| 7 | | ✓ | | 268 47 35 | | | | 15.0 | | | 0 | | | | |
| 8 | N | 1760 | | 93 03 35 | | | | 15.0 | +108.5 | 631.4 | | Δ | | | |
| 9 | | ✓ | | 266 57 30 | | | | 15.0 | | | | Δ | | | |
| 10 | | 880 | | 98 18 00 | | | | 15.0 | -140.7 | 490.7 | | | 610 | | |
| 11 | | 0 | ✓ | | | | | 5.0 | -5.0 | 626.4 | π | | 611 | | |
| 12 | S | 880 | | 89 49 20 | | | | 13.0 | +20.5 | 651.9 | 0 | | 612 | 651.3 | |
| 13 | | ✓ | | 272 11 10 | | | | 13.0 | | | | 0 | | | |
| 14 | N | 1210 | | 90 33 25 | | | | 15.0 | +26.5 | 678.4 | | Δ | | | |
| 15 | | ✓ | | 269 28 00 | | | | 15.0 | | | | Δ | | | |
| 16 | | 330 | ✓ | | | | | 7.5 | -7.5 | 675.9 | | | 613 | 670.9 | |
| 17 | | 0 | ✓ | | | | | 5.0 | -5.0 | 673.4 | π | | 613 + 330 | | |
| 18 | S | 550 | ✓ | | | | | 7.4 | -7.4 | 671.0 | | | 614 | | |
| 19 | | 1430 | | 89 20 10 | | | | 15.0 | +1.6 | 680.0 | | | 615 | | |
| 20 | | 2310 | | | | | | | | | | | 616 | | |

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STADIA SURVEY NOTES

AREA N.P.R. - 4 STATE or PROVINCE ALASKA PAGE No. 20
 LINE No.(s) 019-77 PARTY No. 1173 DATE 2 Day APR Mo. 77 Yr. BOOK No. _____
 SURVEYOR T. SHERRILL RODMAN R. SMITH WEATHER: CLOUDY 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 | | | | | | | | | | | | 678.4 | | | | |
| 2 | S | 1760 | | 89 57 50 | | | | 15.0 | 15.0 | -13.5 | | 664.9 | 0 | 615 + 330 | | |
| 3 | | ✓ | | 70 03 30 | | | | 15.0 | 15.0 | +2 | | | 0 | 664.2 | | |
| 4 | N | 1980 | | 90 23 30 | | | | 15.0 | | +28.1 | | 693.0 | Δ | | | |
| 5 | | ✓ | | 269 38 00 | | | | 15.0 | | | | | Δ | | | |
| 6 | | 1930 | | 90 35 30 | | | | 15.0 | | -29.8 | | 663.2 | | 616 | | |
| 7 | | 550 | | 90 42 40 | | | | 15.0 | | -21.8 | | 671.2 | | 617 | | |
| 8 | | ✓ | | | | | | 5.0 | | -5.0 | | 688.0 | τ | 617 + 350 | | |
| 9 | S | 330 | ✓ | | | | | 11.0 | | -11.0 | | 682.0 | | 618 | | |
| 10 | | 1210 | ✓ | | | | | 11.8 | | -11.8 | | 681.2 | | 619 | | |
| 11 | | 1540 | | 90 20 55 | | | | 15.0 | | -24.1 | | 668.9 | 0 | 619 + 330 | | |
| 12 | | ✓ | | 269 40 30 | | | | 15.0 | | | | | 0 | 668.3 | | |
| 13 | N | 1540 | ✓ | | | | B | 9.7 | +7.7 | | +17.1 | 686.0 | Δ | | | |
| 14 | | ✓ | | | | | B | 9.1 | +7.7 | | | | Δ | | | |
| 15 | | 990 | ✓ | | | | | 11.2 | | -11.2 | | 674.8 | | 620 | | |
| 16 | | 110 | ✓ | | | | | 7.5 | | -7.5 | | 678.5 | | 621 | | |
| 17 | | 0 | ✓ | | | | | 5.0 | | -5.0 | | 681.0 | τ | 621 + 110 | | |
| 18 | S | 770 | | 94 46 10 | | | | 21.0 | 11.0 | -84.8 | | 601.2 | | 622 | | |
| 19 | | 1650 | | 94 36 25 | | | | 21.0 | 11.0 | -153.1 | | 532.9 | | 623 | | |
| 20 | | | | | | | | | | | | | | | | |

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STADIA SURVEY NOTES

AREA N.P.R. - 4 STATE or PROVINCE _____ PAGE No. 21
 LINE No.(s) 019-77 PARTY No. 1173 DATE 2 Day APR Mo. 77 Yr. BOOK No. _____
 SURVEYOR T. SHERWIN RODMAN R. SMITH WEATHER: CLOUDY 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 | | | | | | | | | | | | 686.0 | | | | |
| 2 | S | 2530 | | 93 24 25 | | | | | 150.7 | -164.5 | | 521.5 | 0 | 624 | 520.6 | |
| 3 | | | | 266 37 10 | | | | | 150.5 | | | | 0 | | | |
| 4 | N | 2186 | ✓ | | | T | 13.2 | -10.9 | | +1.7 | 523.2 | | A | | | |
| 5 | | | ✓ | | | T | 12.1 | -10.9 | | | | | A | | | |
| 6 | | 1306 | | 90 40 00 | | | | | 15.0 | -30.2 | | 493.0 | | 625 | | |
| 7 | | 426 | | 95 06 25 | | | | | 15.0 | -52.8 | | 470.4 | | 626 | | |
| 8 | | 0 | ✓ | | | | | | 3.0 | -5.0 | | 518.2 | T | 626 + 426 | | |
| 9 | | 0 | ✓ | | | | | | 3.0 | -5.0 | | 518.2 | 0 | 019.02 | 517.4 | |
| 10 | | 0 | ✓ | | | | | | 5.0 | | | | 0 | -5.0 626 + 426 | | |
| 11 | | | | | | | | | | | | 516.9 | | BARR SURVEY | | (0.5) |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | A | | | | | | | | | | | 516.9 | | TBM 019.02 = 638.02 | | |
| 15 | N | 3094 | | 88 53 40 | | | | | 3.0 | -57.3 | 459.6 | | A | -5.0 626 + 426 | | |
| 16 | | | ✓ | 271 07 40 | | | | | 3.0 | | | | B | | | |
| 17 | | 2640 | | 89 18 45 | | | | | 3.0 | +28.7 | | 488.3 | | 627 | | |
| 18 | | 1760 | ✓ | | | | | | 6.7 | -6.7 | | 452.9 | | 628 | | |
| 19 | | 880 | ✓ | | | | | | 6.0 | -6.0 | | 453.6 | | 629 | | |
| 20 | | 0 | ✓ | | | | | | 3.0 | -5.0 | | 454.6 | T | T.S.1 | | |

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STADIA SURVEY NOTES

AREA N.P.R. - 4 STATE or PROVINCE ALASKA PAGE No. 22
 LINE No.(s) 019-77 PARTY No. 1173 DATE 3 Day APR Mo. 77 Yr. BOOK No. _____
 SURVEYOR T. SHAWL RODMAN R. SMITH WEATHER: clear P.T.S. No. _____

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER | | | ROD READING | | | | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS | | ▲B.S. OF.S. -S.S. | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|-------------------|---------|---------|
| | | | Level | Inclined | Angle or Factor | Hair Read | Reading | Correc-tion | Center Hair | | | INST. | ROD | | | |
| 1 | | | | | | | | | | | | 452.6 | | | | |
| 2 | S | 880 | ✓ | | | | | | 6.2 | -6.2 | | 453.4 | | 752 | | |
| 3 | | 1760 | ✓ | | | | | | 6.6 | -6.6 | | 453.0 | | 753 | | |
| 4 | | 2640 | ✓ | | | | | | 6.9 | -6.9 | | 452.7 | | 754 | | |
| 5 | | 3520 | ✓ | | | | | | 7.0 | -7.0 | | 452.6 | | 755 | | |
| 6 | | 4400 | ✓ | | | | | | 6.9 | -6.9 | | 452.7 | | 756 | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |

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