# 水准测量电子手簿记录表

**月**

**日**

**年**

**至**

**测自**

**2000**

成像 清晰

时间: 始 时 分 末 时 分

温度

土质 水泥路坚实

风向风速

云量

太阳方向

天气

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 测站编号 | 后尺 | 下丝 | 前尺 | 下丝 | 方向  及  尺号 | 标 尺 读 数 | | 基+K  减  辅   1. -② | 备  注 |
| 上丝 | 上丝 |
| 后 距 | | 前 距 | | 基本分划  ① | 辅助分划  ② |
| 视距差d | | Σd | | Σs |
| A1-->01 | 713.40 | | 571.15 | | 后 | 0096547 | 0096549 | -2 |  |
| 709.69 | | 565.95 | | 前 | 0144553 | 0144543 | 10 |
| 711.545 | | 568.55 | | 后 - 前 | -48006.0 | -47994.0 | -12 |
| 0.14 | | 0.14 | | h | Σh | -48.0 | -48.0 | 11.371 |
| 01-->02 | 160.93 | | 267.30 | | 后 | 0143847 | 0143831 | 16 | 测段1 |
| 162.02 | | 265.89 | | 前 | 0136477 | 0136480 | -3 |
| 161.475 | | 266.595 | | 后 - 前 | 7370.0 | 7351.0 | 19 |
| -0.11 | | 0.03 | | h | Σh | 7.3605 | -40.6395 | 16.7029 |
| A1-->01 | 258.80 | | 177.91 | | 后 | 0136485 | 0136499 | -14 |  |
| 249.88 | | 177.11 | | 前 | 0143834 | 0143837 | -3 |
| 254.34 | | 177.51 | | 后 - 前 | -7349.0 | -7338.0 | -11 |
| 0.08 | | 0.11 | | h | Σh | -7.3435 | -47.983 | 20.2531 |
| 01-->02 | 601.78 | | 690.76 | | 后 | 0144567 | 0144565 | 2 | 测段2 |
| 602.32 | | 691.39 | | 前 | 0096599 | 0096601 | -2 |
| 602.05 | | 691.075 | | 后 - 前 | 47968.0 | 47964.0 | 4 |
| -0.09 | | 0.02 | | h | Σh | 47.966 | -0.017 | 34.0746 |
| A1-->01 | 689.49 | | 603.57 | | 后 | 0096593 | 0096596 | -3 |  |
| 691.42 | | 604.32 | | 前 | 0144566 | 0144564 | 2 |
| 690.455 | | 603.945 | | 后 - 前 | -47973.0 | -47968.0 | -5 |
| 0.09 | | 0.11 | | h | Σh | -47.9705 | -47.9875 | 46.1535 |
| 01-->02 | 670.93 | | 768.71 | | 后 | 0159261 | 0159253 | 8 | 测段3 |
| 669.87 | | 766.59 | | 前 | 0149665 | 0149664 | 1 |
| 670.4 | | 767.65 | | 后 - 前 | 9596.0 | 9589.0 | 7 |
| -0.1 | | 0.01 | | h | Σh | 9.5925 | -38.395 | 61.5065 |
| A1-->01 | 790.30 | | 663.47 | | 后 | 0149659 | 0149655 | 4 |  |
| 791.31 | | 656.41 | | 前 | 0159260 | 0159254 | 6 |
| 790.805 | | 659.94 | | 后 - 前 | -9601.0 | -9599.0 | -2 |
| 0.13 | | 0.14 | | h | Σh | -9.6 | -47.995 | 74.7053 |
| 01-->02 | 598.50 | | 691.80 | | 后 | 0146805 | 0146803 | 2 | 测段4 |
| 600.75 | | 694.50 | | 前 | 0098807 | 0098808 | -1 |
| 599.625 | | 693.15 | | 后 - 前 | 47998.0 | 47995.0 | 3 |
| -0.09 | | 0.05 | | h | Σh | 47.9965 | 0.0015 | 88.5683 |
| A1-->01 | 269.86 | | 159.25 | | 后 | 0137799 | 0137805 | -6 |  |
| 267.28 | | 160.80 | | 前 | 0145166 | 0145166 | 0 |
| 268.57 | | 160.025 | | 后 - 前 | -7367.0 | -7361.0 | -6 |
| 0.11 | | 0.16 | | h | Σh | -7.364 | -7.3625 | 91.7688 |
| 01-->02 | 785.53 | | 008.86 | | 后 | 0159201 | 0159203 | -2 | 测段5 |
| 783.81 | | 012.27 | | 前 | 0150387 | 0150391 | -4 |
| 784.67 | | 10.565 | | 后 - 前 | 8814.0 | 8812.0 | 2 |
| 0.77 | | 0.93 | | h | Σh | 8.813 | 1.4505 | 91.9801 |
| A1-->01 | 010.40 | | 795.72 | | 后 | 0150412 | 0150409 | 3 |  |
| 007.67 | | 791.23 | | 前 | 0159190 | 0159187 | 3 |
| 9.035 | | 793.475 | | 后 - 前 | -8778.0 | -8778.0 | 0 |
| -0.78 | | 0.15 | | h | Σh | -8.778 | -7.3275 | 107.8496 |
| 01-->02 | 120.56 | | 308.72 | | 后 | 0146628 | 0146628 | 0 | 测段6 |
| 119.63 | | 310.00 | | 前 | 0139259 | 0139272 | -13 |
| 120.095 | | 309.36 | | 后 - 前 | 7369.0 | 7356.0 | 13 |
| -0.19 | | -0.04 | | h | Σh | 7.3625 | 0.035 | 114.0368 |
| A1-->01 | 133.38 | | 157.59 | | 后 | 0149597 | 0149602 | -5 |  |
| 138.20 | | 157.61 | | 前 | 0147611 | 0147612 | -1 |
| 135.79 | | 157.6 | | 后 - 前 | 1986.0 | 1990.0 | -4 |
| -0.02 | | -0.06 | | h | Σh | 1.988 | 2.023 | 117.1888 |
| 01-->02 | 196.65 | | 440.04 | | 后 | 0147620 | 0147614 | 6 | 测段7 |
| 196.99 | | 439.98 | | 前 | 0150959 | 0150960 | -1 |
| 196.82 | | 440.01 | | 后 - 前 | -3339.0 | -3346.0 | 7 |
| -0.24 | | -0.3 | | h | Σh | -3.3425 | -1.3195 | 125.989 |
| A1-->01 | 442.07 | | 186.85 | | 后 | 0150938 | 0150936 | 2 |  |
| 442.14 | | 186.92 | | 前 | 0147620 | 0147622 | -2 |
| 442.105 | | 186.885 | | 后 - 前 | 3318.0 | 3314.0 | 4 |
| 0.26 | | -0.04 | | h | Σh | 3.316 | 1.9965 | 129.7267 |
| 01-->02 | 097.51 | | 116.67 | | 后 | 0148262 | 0148259 | 3 | 测段8 |
| 097.60 | | 116.03 | | 前 | 0150229 | 0150229 | 0 |
| 97.555 | | 116.35 | | 后 - 前 | -1967.0 | -1970.0 | 3 |
| -0.02 | | -0.06 | | h | Σh | -1.9685 | 0.028 | 132.0537 |
| A1-->01 | 364.47 | | 154.36 | | 后 | 0150905 | 0150907 | -2 |  |
| 364.16 | | 154.69 | | 前 | 0147540 | 0147541 | -1 |
| 364.315 | | 154.525 | | 后 - 前 | 3365.0 | 3366.0 | -1 |
| 0.21 | | 0.15 | | h | Σh | 3.3655 | 3.3935 | 135.1442 |
| 01-->02 | 156.75 | | 205.89 | | 后 | 0147540 | 0147537 | 3 | 测段9 |
| 156.97 | | 209.01 | | 前 | 0149616 | 0149614 | 2 |
| 156.86 | | 207.45 | | 后 - 前 | -2076.0 | -2077.0 | 1 |
| -0.05 | | 0.1 | | h | Σh | -2.0765 | 1.317 | 139.2932 |
| A1-->01 | 189.40 | | 161.40 | | 后 | 0149631 | 0149634 | -3 |  |
| 191.89 | | 160.48 | | 前 | 0147526 | 0147526 | 0 |
| 190.645 | | 160.94 | | 后 - 前 | 2105.0 | 2108.0 | -3 |
| 0.03 | | 0.13 | | h | Σh | 2.1065 | 3.4235 | 142.512 |
| 01-->02 | 158.63 | | 346.02 | | 后 | 0147524 | 0147524 | 0 | 测段10 |
| 159.34 | | 351.85 | | 前 | 0150927 | 0150930 | -3 |
| 158.985 | | 348.935 | | 后 - 前 | -3403.0 | -3406.0 | 3 |
| -0.19 | | -0.06 | | h | Σh | -3.4045 | 0.019 | 149.4907 |
| A1-->01 | 422.92 | | 603.45 | | 后 | 0148405 | 0148400 | 5 |  |
| 427.00 | | 602.58 | | 前 | 0145543 | 0145544 | -1 |
| 424.96 | | 603.015 | | 后 - 前 | 2862.0 | 2856.0 | 6 |
| -0.18 | | -0.24 | | h | Σh | 2.859 | 2.878 | 161.551 |
| 01-->02 | 607.39 | | 214.02 | | 后 | 0145536 | 0145534 | 2 | 测段11 |
| 607.34 | | 213.97 | | 前 | 0147609 | 0147610 | -1 |
| 607.365 | | 213.995 | | 后 - 前 | -2073.0 | -2076.0 | 3 |
| 0.39 | | 0.15 | | h | Σh | -2.0745 | 0.8035 | 165.8309 |
| A1-->01 | 212.69 | | 618.84 | | 后 | 0147629 | 0147628 | 1 |  |
| 211.90 | | 621.97 | | 前 | 0145526 | 0145527 | -1 |
| 212.295 | | 620.405 | | 后 - 前 | 2103.0 | 2101.0 | 2 |
| -0.41 | | -0.26 | | h | Σh | 2.102 | 2.9055 | 178.239 |
| 01-->02 | 617.52 | | 403.70 | | 后 | 0145526 | 0145525 | 1 | 测段12 |
| 616.29 | | 403.94 | | 前 | 0148405 | 0148404 | 1 |
| 616.905 | | 403.82 | | 后 - 前 | -2879.0 | -2879.0 | 0 |
| 0.21 | | -0.05 | | h | Σh | -2.879 | 0.0265 | 186.3154 |
| A1-->01 | 476.92 | | 575.92 | | 后 | 0149125 | 0149123 | 2 |  |
| 478.73 | | 577.37 | | 前 | 0147261 | 0147257 | 4 |
| 477.825 | | 576.645 | | 后 - 前 | 1864.0 | 1866.0 | -2 |
| -0.1 | | -0.15 | | h | Σh | 1.865 | 1.8915 | 197.8483 |
| 01-->02 | 575.09 | | 532.94 | | 后 | 0147255 | 0147252 | 3 | 测段13 |
| 577.58 | | 533.61 | | 前 | 0150252 | 0150252 | 0 |
| 576.335 | | 533.275 | | 后 - 前 | -2997.0 | -3000.0 | 3 |
| 0.04 | | -0.11 | | h | Σh | -2.9985 | -1.107 | 208.5138 |
| A1-->01 | 530.15 | | 575.80 | | 后 | 0150267 | 0150265 | 2 |  |
| 531.01 | | 571.32 | | 前 | 0147241 | 0147243 | -2 |
| 530.58 | | 573.56 | | 后 - 前 | 3026.0 | 3022.0 | 4 |
| -0.04 | | -0.15 | | h | Σh | 3.024 | 1.917 | 219.985 |
| 01-->02 | 578.44 | | 473.11 | | 后 | 0147238 | 0147239 | -1 | 测段14 |
| 581.83 | | 473.71 | | 前 | 0149131 | 0149131 | 0 |
| 580.135 | | 473.41 | | 后 - 前 | -1893.0 | -1892.0 | -1 |
| 0.11 | | -0.04 | | h | Σh | -1.8925 | 0.0245 | 229.4532 |
| A1-->01 | 097.97 | | 980.48 | | 后 | 0150165 | 0150162 | 3 |  |
| 095.20 | | 979.07 | | 前 | 0149573 | 0149578 | -5 |
| 96.585 | | 979.775 | | 后 - 前 | 592.0 | 584.0 | 8 |
| -0.88 | | -0.92 | | h | Σh | 0.588 | 0.6125 | 249.0487 |
| 01-->02 | 989.87 | | 934.66 | | 后 | 0149572 | 0149572 | 0 | 测段15 |
| 992.94 | | 934.20 | | 前 | 0150591 | 0150593 | -2 |
| 991.405 | | 934.43 | | 后 - 前 | -1019.0 | -1021.0 | 2 |
| 0.06 | | -0.86 | | h | Σh | -1.02 | -0.4075 | 267.7373 |
| A1-->01 | 949.98 | | 987.39 | | 后 | 0150575 | 0150572 | 3 |  |
| 952.86 | | 988.22 | | 前 | 0149580 | 0149587 | -7 |
| 951.42 | | 987.805 | | 后 - 前 | 995.0 | 985.0 | 10 |
| -0.04 | | -0.9 | | h | Σh | 0.99 | 0.5825 | 287.4934 |
| 01-->02 | 995.27 | | 116.11 | | 后 | 0149579 | 0149582 | -3 | 测段16 |
| 993.45 | | 117.52 | | 前 | 0150137 | 0150139 | -2 |
| 994.36 | | 116.815 | | 后 - 前 | -558.0 | -557.0 | -1 |
| 0.88 | | -0.02 | | h | Σh | -0.5575 | 0.025 | 289.8297 |

# 电子手簿相关结果

测段信息  
\* 由于表格太小加入测段说明会拉长不美观，以此代替

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[测段 1 信息]  
1.测段累积视距差：0.03m  
2.测段高差：-40.6395m  
3.测段视距和：16.7029m

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[测段 2 信息]  
1.测段累积视距差：0.02m  
2.测段高差：-0.017m  
3.测段视距和：34.0746m

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[测段 3 信息]  
1.测段累积视距差：0.01m  
2.测段高差：-38.395m  
3.测段视距和：61.5065m

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[测段 4 信息]  
1.测段累积视距差：0.05m  
2.测段高差：0.0015m  
3.测段视距和：88.5683m

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[测段 5 信息]  
1.测段累积视距差：0.93m  
2.测段高差：1.4505m  
3.测段视距和：91.9801m

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[测段 6 信息]  
1.测段累积视距差：-0.04m  
2.测段高差：0.035m  
3.测段视距和：114.0368m

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[测段 7 信息]  
1.测段累积视距差：-0.3m  
2.测段高差：-1.3195m  
3.测段视距和：125.989m

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[测段 8 信息]  
1.测段累积视距差：-0.06m  
2.测段高差：0.028m  
3.测段视距和：132.0537m

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[测段 9 信息]  
1.测段累积视距差：0.1m  
2.测段高差：1.317m  
3.测段视距和：139.2932m

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[测段 10 信息]  
1.测段累积视距差：-0.06m  
2.测段高差：0.019m  
3.测段视距和：149.4907m

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[测段 11 信息]  
1.测段累积视距差：0.15m  
2.测段高差：0.8035m  
3.测段视距和：165.8309m

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[测段 12 信息]  
1.测段累积视距差：-0.05m  
2.测段高差：0.0265m  
3.测段视距和：186.3154m

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[测段 13 信息]  
1.测段累积视距差：-0.11m  
2.测段高差：-1.107m  
3.测段视距和：208.5138m

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[测段 14 信息]  
1.测段累积视距差：-0.04m  
2.测段高差：0.0245m  
3.测段视距和：229.4532m

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[测段 15 信息]  
1.测段累积视距差：-0.86m  
2.测段高差：-0.4075m  
3.测段视距和：267.7373m

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[测段 16 信息]  
1.测段累积视距差：-0.02m  
2.测段高差：0.025m  
3.测段视距和：289.8297m

----【 GSI 文件解析结果 】-----  
 一.测量模式  
BFFB  
  
 二.控制点或重要点ID（非普通）及地面高/mm  
 \* 指点名一段测段两端记录的点,点名记录值规定三位  
  
['0A1', '0000']  
['0A1', '0000']  
['0A1', '0000']  
['0A1', '0000']  
['0A1', '0000']  
['0A1', '0000']  
['0A1', '0000']  
['0A1', '0000']  
['0A1', '0000']  
['0A1', '0000']  
['0A1', '0000']  
['0A1', '0000']  
['0A1', '0000']  
['0A1', '0000']  
['0A1', '0000']  
['0A1', '0000']  
  
 四.BFFB 数据  
 \* 六位的数据前两位为标识符，非有效数据   
 照准点ID 距离Distance/mm 后视|前视距/mm 复测次数 单次测量标准偏差/mm   
  
['A1', '14713.40', '0096547', '0002', '0.00']  
['01', '14571.15', '0144543', '0002', '0.05']  
['01', '14565.95', '0144553', '0002', '0.02']  
['A1', '14709.69', '0096549', '0002', '0.01']  
['01', '16160.93', '0143847', '0002', '0.01']  
['02', '16267.30', '0136480', '0002', '0.00']  
['02', '16265.89', '0136477', '0002', '0.01']  
['01', '16162.02', '0143831', '0002', '0.24']  
['A1', '16258.80', '0136485', '0002', '0.03']  
['01', '16177.91', '0143837', '0002', '0.04']  
['01', '16177.11', '0143834', '0002', '0.03']  
['A1', '16249.88', '0136499', '0002', '0.02']  
['01', '14601.78', '0144567', '0002', '0.01']  
['02', '14690.76', '0096601', '0002', '0.00']  
['02', '14691.39', '0096599', '0002', '0.02']  
['01', '14602.32', '0144565', '0002', '0.01']  
['A1', '14689.49', '0096593', '0002', '0.02']  
['01', '14603.57', '0144564', '0002', '0.02']  
['01', '14604.32', '0144566', '0002', '0.01']  
['A1', '14691.42', '0096596', '0002', '0.00']  
['01', '19670.93', '0159261', '0002', '0.01']  
['02', '19768.71', '0149664', '0002', '0.02']  
['02', '19766.59', '0149665', '0002', '0.00']  
['01', '19669.87', '0159253', '0002', '0.06']  
['A1', '19790.30', '0149659', '0002', '0.01']  
['01', '19663.47', '0159254', '0002', '0.08']  
['01', '19656.41', '0159260', '0002', '0.01']  
['A1', '19791.31', '0149655', '0002', '0.01']  
['01', '14598.50', '0146805', '0002', '0.02']  
['02', '14691.80', '0098808', '0002', '0.02']  
['02', '14694.50', '0098807', '0002', '0.00']  
['01', '14600.75', '0146803', '0002', '0.02']  
['A1', '16269.86', '0137799', '0002', '0.01']  
['01', '16159.25', '0145166', '0002', '0.03']  
['01', '16160.80', '0145166', '0002', '0.01']  
['A1', '16267.28', '0137805', '0002', '0.02']  
['01', '20785.53', '0159201', '0002', '0.04']  
['02', '21008.86', '0150391', '0002', '0.02']  
['02', '21012.27', '0150387', '0002', '0.00']  
['01', '20783.81', '0159203', '0002', '0.01']  
['A1', '21010.40', '0150412', '0002', '0.03']  
['01', '20795.72', '0159187', '0002', '0.03']  
['01', '20791.23', '0159190', '0002', '0.03']  
['A1', '21007.67', '0150409', '0002', '0.04']  
['01', '16120.56', '0146628', '0002', '0.02']  
['02', '16308.72', '0139272', '0002', '0.08']  
['02', '16310.00', '0139259', '0002', '0.03']  
['01', '16119.63', '0146628', '0002', '0.01']  
['A1', '04133.38', '0149597', '0002', '0.00']  
['01', '04157.59', '0147612', '0002', '0.01']  
['01', '04157.61', '0147611', '0002', '0.00']  
['A1', '04138.20', '0149602', '0002', '0.01']  
['01', '04196.65', '0147620', '0002', '0.01']  
['02', '04440.04', '0150960', '0002', '0.01']  
['02', '04439.98', '0150959', '0002', '0.00']  
['01', '04196.99', '0147614', '0002', '0.00']  
['A1', '04442.07', '0150938', '0002', '0.01']  
['01', '04186.85', '0147622', '0002', '0.01']  
['01', '04186.92', '0147620', '0002', '0.01']  
['A1', '04442.14', '0150936', '0002', '0.00']  
['01', '04097.51', '0148262', '0002', '0.00']  
['02', '04116.67', '0150229', '0002', '0.01']  
['02', '04116.03', '0150229', '0002', '0.02']  
['01', '04097.60', '0148259', '0002', '0.00']  
['A1', '07364.47', '0150905', '0002', '0.00']  
['01', '07154.36', '0147541', '0002', '0.00']  
['01', '07154.69', '0147540', '0002', '0.01']  
['A1', '07364.16', '0150907', '0002', '0.00']  
['01', '07156.75', '0147540', '0002', '0.00']  
['02', '07205.89', '0149614', '0002', '0.01']  
['02', '07209.01', '0149616', '0002', '0.01']  
['01', '07156.97', '0147537', '0002', '0.00']  
['A1', '07189.40', '0149631', '0002', '0.02']  
['01', '07161.40', '0147526', '0002', '0.01']  
['01', '07160.48', '0147526', '0002', '0.00']  
['A1', '07191.89', '0149634', '0002', '0.03']  
['01', '07158.63', '0147524', '0002', '0.00']  
['02', '07346.02', '0150930', '0002', '0.02']  
['02', '07351.85', '0150927', '0002', '0.00']  
['01', '07159.34', '0147524', '0002', '0.00']  
['A1', '06422.92', '0148405', '0002', '0.00']  
['01', '06603.45', '0145544', '0002', '0.00']  
['01', '06602.58', '0145543', '0002', '0.00']  
['A1', '06427.00', '0148400', '0002', '0.00']  
['01', '06607.39', '0145536', '0002', '0.00']  
['02', '06214.02', '0147610', '0002', '0.00']  
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['01', '06607.34', '0145534', '0002', '0.00']  
['A1', '06212.69', '0147629', '0002', '0.00']  
['01', '06618.84', '0145527', '0002', '0.02']  
['01', '06621.97', '0145526', '0002', '0.00']  
['A1', '06211.90', '0147628', '0002', '0.00']  
['01', '06617.52', '0145526', '0002', '0.01']  
['02', '06403.70', '0148404', '0002', '0.00']  
['02', '06403.94', '0148405', '0002', '0.01']  
['01', '06616.29', '0145525', '0002', '0.00']  
['A1', '07476.92', '0149125', '0002', '0.01']  
['01', '07575.92', '0147257', '0002', '0.00']  
['01', '07577.37', '0147261', '0002', '0.04']  
['A1', '07478.73', '0149123', '0002', '0.00']  
['01', '07575.09', '0147255', '0002', '0.06']  
['02', '07532.94', '0150252', '0002', '0.00']  
['02', '07533.61', '0150252', '0002', '0.00']  
['01', '07577.58', '0147252', '0002', '0.04']  
['A1', '07530.15', '0150267', '0002', '0.00']  
['01', '07575.80', '0147243', '0002', '0.05']  
['01', '07571.32', '0147241', '0002', '0.10']  
['A1', '07531.01', '0150265', '0002', '0.00']  
['01', '07578.44', '0147238', '0002', '0.00']  
['02', '07473.11', '0149131', '0002', '0.00']  
['02', '07473.71', '0149131', '0002', '0.00']  
['01', '07581.83', '0147239', '0002', '0.06']  
['A1', '09097.97', '0150165', '0002', '0.00']  
['01', '08980.48', '0149578', '0002', '0.04']  
['01', '08979.07', '0149573', '0002', '0.05']  
['A1', '09095.20', '0150162', '0002', '0.01']  
['01', '08989.87', '0149572', '0002', '0.04']  
['02', '08934.66', '0150593', '0002', '0.04']  
['02', '08934.20', '0150591', '0002', '0.01']  
['01', '08992.94', '0149572', '0002', '0.01']  
['A1', '08949.98', '0150575', '0002', '0.00']  
['01', '08987.39', '0149587', '0002', '0.03']  
['01', '08988.22', '0149580', '0002', '0.04']  
['A1', '08952.86', '0150572', '0002', '0.00']  
['01', '08995.27', '0149579', '0002', '0.01']  
['02', '09116.11', '0150139', '0002', '0.01']  
['02', '09117.52', '0150137', '0002', '0.01']  
['01', '08993.45', '0149582', '0002', '0.01']  
  
 五.解算数据  
 当前归算点 站间差/mm 累积站差/mm 距离平衡/mm 测线总距离/mm 地面高（起点高或测量高）/mm   
  
['01', '+0.08', '+0.08', '+00143.00', '+29280.10', '-00480.00']  
['02', '+0.13', '+0.21', '+00037.88', '+61708.16', '-00406.40']  
['01', '-0.17', '-0.17', '+00076.83', '+32431.85', '-00073.44']  
['02', '-0.01', '-0.18', '-00012.20', '+61724.97', '+00406.22']  
['01', '-0.02', '-0.02', '+00086.50', '+29294.40', '-00479.70']  
['02', '+0.09', '+0.07', '-00010.74', '+68732.45', '-00383.78']  
['01', '+0.10', '+0.10', '+00130.86', '+39450.75', '-00096.01']  
['02', '+0.01', '+0.11', '+00037.34', '+68743.52', '+00383.96']  
['01', '-0.06', '-0.06', '+00108.55', '+32428.60', '-00073.64']  
['02', '-0.06', '-0.12', '-00117.35', '+74223.83', '+00014.49']  
['01', '+0.06', '+0.06', '+00215.56', '+41802.51', '-00087.78']  
['02', '-0.14', '-0.08', '+00026.30', '+74231.97', '-00014.15']  
['01', '-0.06', '-0.06', '-00021.81', '+08293.39', '+00019.89']  
['02', '+0.04', '-0.02', '-00265.00', '+16930.22', '-00013.54']  
['01', '-0.00', '-0.00', '+00255.22', '+08628.99', '+00033.16']  
['02', '+0.03', '+0.03', '+00236.43', '+16842.89', '+00013.48']  
['01', '-0.02', '-0.02', '+00209.79', '+14518.84', '+00033.65']  
['02', '+0.06', '+0.03', '+00159.20', '+28883.15', '+00012.88']  
['01', '-0.02', '-0.02', '+00029.70', '+14351.58', '+00021.06']  
['02', '-0.02', '-0.05', '-00160.25', '+28859.50', '-00012.98']  
['01', '+0.04', '+0.04', '-00178.06', '+13027.97', '+00028.59']  
['02', '+0.02', '+0.06', '+00215.31', '+25849.32', '+00007.85']  
['01', '+0.01', '+0.01', '-00408.11', '+12832.70', '+00021.02']  
['02', '+0.02', '+0.02', '-00195.03', '+25853.42', '-00007.77']  
['01', '+0.05', '+0.05', '-00098.82', '+15054.47', '+00018.65']  
['02', '+0.02', '+0.07', '-00055.76', '+30164.08', '-00011.33']  
['01', '+0.00', '+0.00', '-00042.98', '+15104.14', '+00030.24']  
['02', '-0.01', '-0.01', '+00063.74', '+30157.68', '+00011.32']  
['01', '-0.03', '-0.03', '+00116.81', '+18076.36', '+00005.88']  
['02', '-0.02', '-0.04', '+00173.78', '+36002.20', '-00004.32']  
['01', '-0.04', '-0.04', '-00036.38', '+17939.23', '+00009.90']  
['02', '-0.05', '-0.09', '-00158.84', '+36050.40', '+00004.33']