
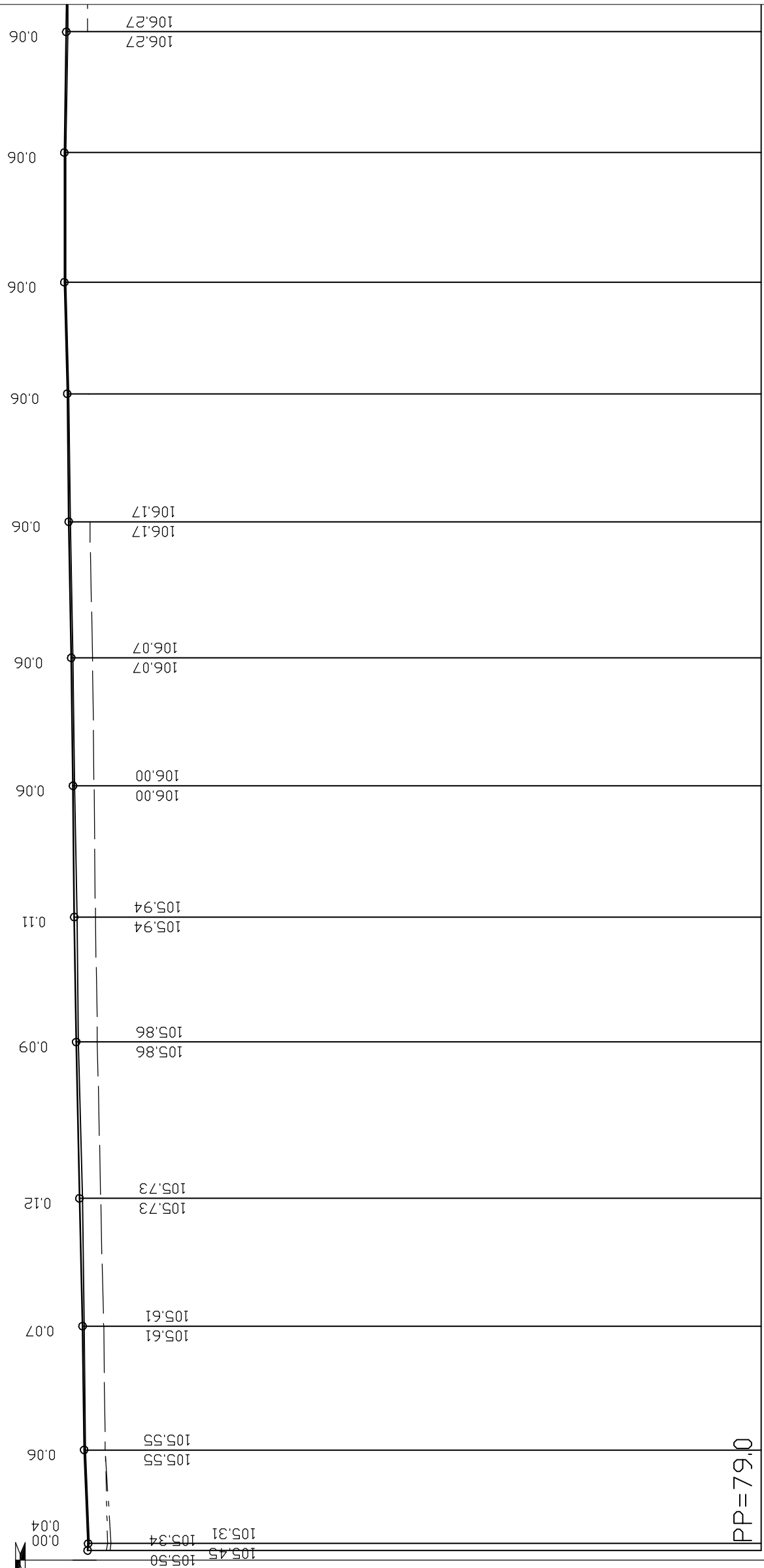


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|--|-------------------------------|
|  L. KLICKI, W. RUSZCZYŃSKI | |
| Typ opracowania: PROJEKT BUDOWLANY PRZEBUDOWY DP GŁADCZYCH ZATORÓW POPOWO | |
| Typ projektu: PRZEKRÓJ PODŁUŻNY | Skala: 1:200/2000 |
| Opracował: mgr inż. W. Ruszczyński | Data: 08-2005 |
| Kierownik projektu: mgr inż. Lech Klicki | Numer: 7342/Ce-1993 |
| Szef projektu: mgr inż. Lech Klicki | Status: 1:200/2000 |

| |
|--------------------------------|
| RZĘDNE NIWELETY |
| ELEMENTY NIWELETY |
| RZĘDNE TERENU |
| ELEMENTY TRASY W PLANIE |
| ODLEGŁOŚCI |
| KILOMETRY I HEKTOMETRY |

Wyszków Dw. NR 618
 Pułtusk



| | | |
|-----------------|---|---|
| NIWELETA | | |
| 1:200/2000 | | |
| 1 | 2 | 3 |

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|
| 106.26 | 106.24 | 106.40 | 106.46 | 106.48 | 106.59 | 106.68 | 106.72 | 106.63 | 106.69 | 106.83 | 106.85 | 106.92 | 106.97 | 107.02 | 107.08 | 107.20 | 107.20 | 107.20 | 107.14 | 107.14 | 107.06 | |
| I=0.425 % L=37.90 | I=0.124 % L=50.10 | I=0.246 % L=51.70 | I=0.205 % L=63.30 | I=0.158 % L=50.60 | I=0.158 % L=50.60 | I=0.158 % L=50.60 | I=0.158 % L=50.60 | I=0.158 % L=50.60 | I=0.158 % L=50.60 | I=0.100 % L=53.10 | I=0.133 % L=51.80 | I=0.133 % L=51.80 | I=0.181 % L=55.10 | I=0.181 % L=55.10 | I=0.116 % L=51.80 | I=0.264 % L=45.10 | I=0.264 % L=45.10 | I=0.000 % L=52.50 | I=0.000 % L=52.50 | I=-0.164 % L=48.90 | I=-0.164 % L=48.90 | I=-0.164 % L=48.90 |
| L=107.08 | | L=87.30 | | L=105.80 | | L=97.85 | | L=382.63 | | | | | | | | | | | | | | |
| 9.00 | 11.80 | 49.70 | 99.80 | 7.08 | 51.50 | 94.39 | 14.80 | 65.40 | 18.50 | 0.19 | 70.30 | 98.04 | 25.40 | 77.20 | 22.30 | 74.80 | 23.70 | | | | | |
| 0 Φ1 | | 0 Φ2 | | 0 Φ3 | | 0 Φ4 | | 0 Φ5 | | 0 Φ6 | | | | | | | | | | | | |



L. KLICKI, W. RUSZCZYŃSKI

Wykonawca: WIELECH

PROJEKT BUDOWLANY

PRZEBUDOWY DP GŁADCZYN ZATORY POPOWO

Typ i symbol: PRZEKRÓJ PODŁUŻNY

Skala: 1:200/2000

Opis: mgr inż. W. Ruszczyński

Pracownik: Drogowca

Data: 08-2005

Opis: mgr inż. Lech Klicki

Konwent: 7342/Cje-1993

Sprzedaż: / - /

Nr umowy: -

RZĘDNE NIWELETY

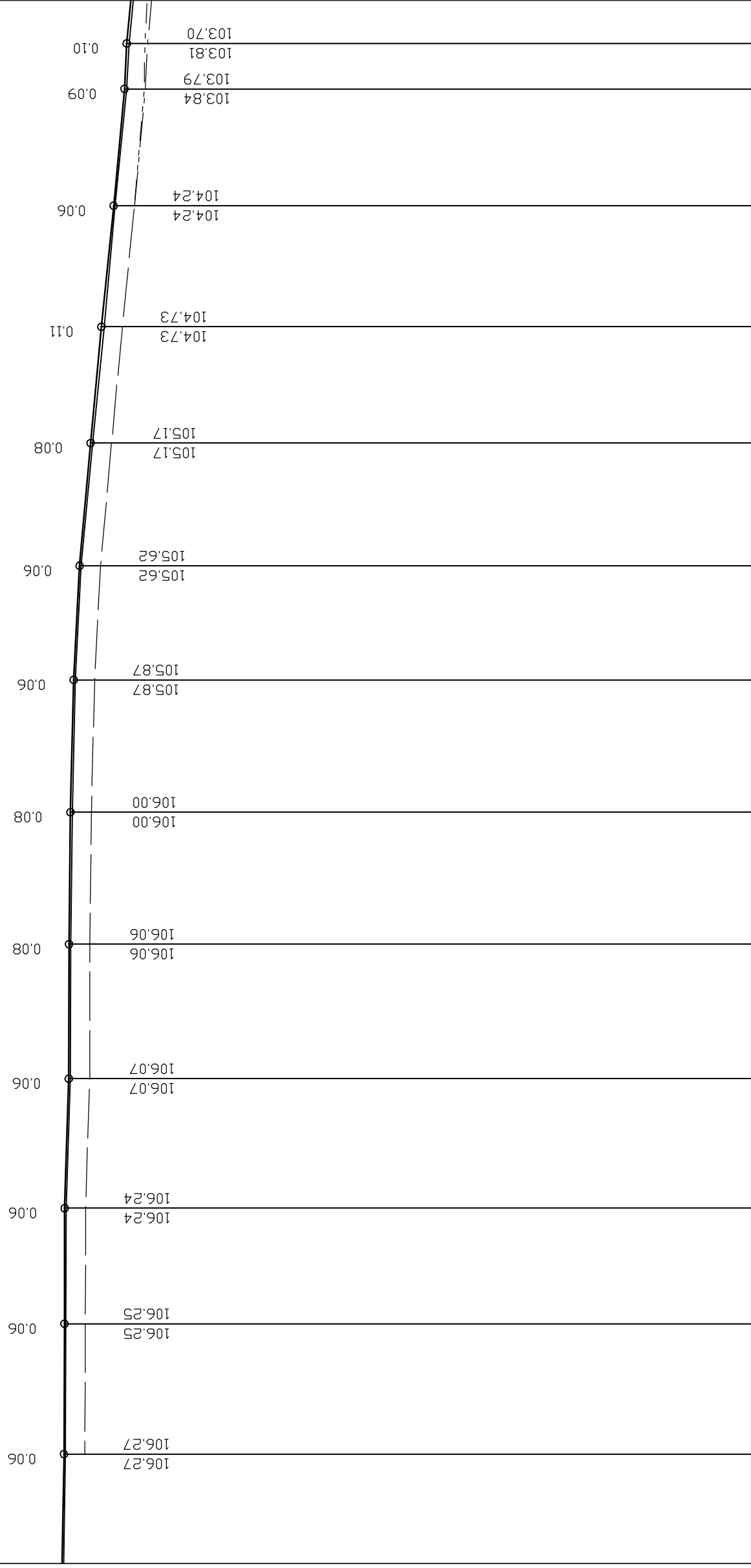
ELEMENTY NIWELETY

RZĘDNE TERENU

ELEMENTY TRASY W PLANIE

ODLEGŁOŚCI

KILOMETRY I HEKTOMETRY



NIWELETA
1:200/2000

82.63 L=147.22 L=242.72 L1=60.00

0 06 0 07 0 08 0 09 1 00 1 01 1 02



L. KLICKI, W. RUSZCZYŃSKI

Projekt opracował:

PRZEBUDOWY DP GŁADCZYŃ ZATORZY POPOWO

Tytuł opracowania:

PRZEMIANY PODŁUŻNY

Rysunek:

3

Skala:

1:200/2000

Opracował:

mgr inż. W. Ruszczyński

Pracownik:

Drogowa

Data:

08-2005

Kierownik projektu:

mgr inż. Lech Klicki

Specjalizacja:

/ - /

Numeracja:

-

RZĘDNE NIWELETY

ELEMENTY NIWELETY

RZĘDNE TERENU

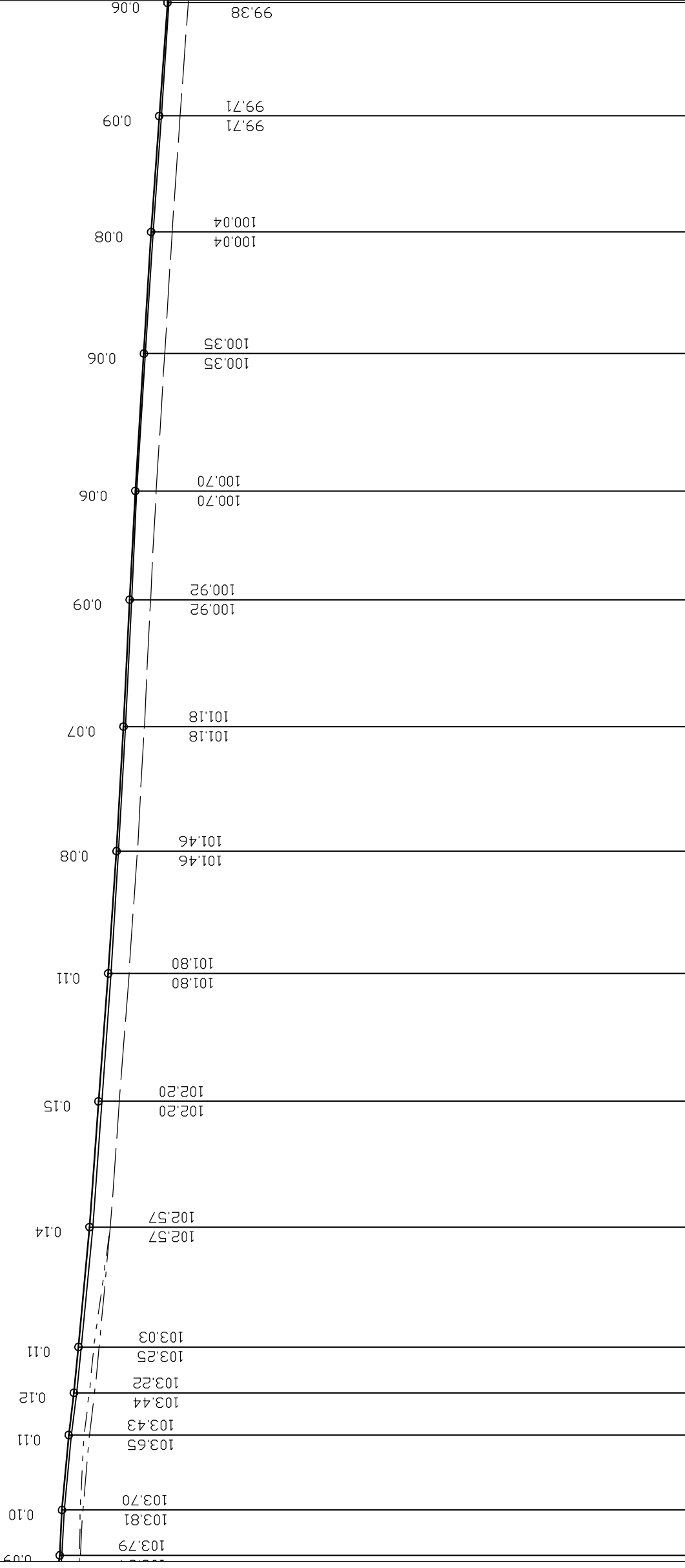
ELEMENTY TRASY W PLANIE

ODLEGŁOŚCI

KILOMETRY I HEKTOMETRY

NIWELETA
1:200/2000

2 3 4



| Stacja | Wysokość terenu [m] | Wysokość projektu [m] | Spadek [%] | Długość [m] |
|--------|---------------------|-----------------------|------------|-------------|
| 1+80 | 99.38 | 99.38 | | |
| 1+90 | 99.71 | 99.71 | | |
| 2+00 | 100.04 | 100.04 | | |
| 2+10 | 100.35 | 100.35 | | |
| 2+20 | 100.70 | 100.70 | | |
| 2+30 | 100.92 | 100.92 | | |
| 2+40 | 101.18 | 101.18 | | |
| 2+50 | 101.46 | 101.46 | | |
| 2+60 | 101.80 | 101.80 | | |
| 2+70 | 102.20 | 102.20 | | |
| 2+80 | 102.57 | 102.57 | | |
| 2+90 | 103.03 | 103.03 | | |
| 3+00 | 103.25 | 103.25 | | |
| 3+10 | 103.44 | 103.44 | | |
| 3+20 | 103.65 | 103.65 | | |
| 3+30 | 103.43 | 103.43 | | |
| 3+40 | 103.22 | 103.22 | | |
| 3+50 | 103.25 | 103.25 | | |
| 3+60 | 103.03 | 103.03 | | |
| 3+70 | 102.57 | 102.57 | | |
| 3+80 | 102.20 | 102.20 | | |
| 3+90 | 101.80 | 101.80 | | |
| 4+00 | 101.46 | 101.46 | | |
| 4+10 | 101.18 | 101.18 | | |
| 4+20 | 100.92 | 100.92 | | |
| 4+30 | 100.70 | 100.70 | | |
| 4+40 | 100.35 | 100.35 | | |
| 4+50 | 100.04 | 100.04 | | |
| 4+60 | 99.71 | 99.71 | | |
| 4+70 | 99.38 | 99.38 | | |

1 = 60,00
 D=13,66638 9
 L=45,13
 R=350

L = 76.91

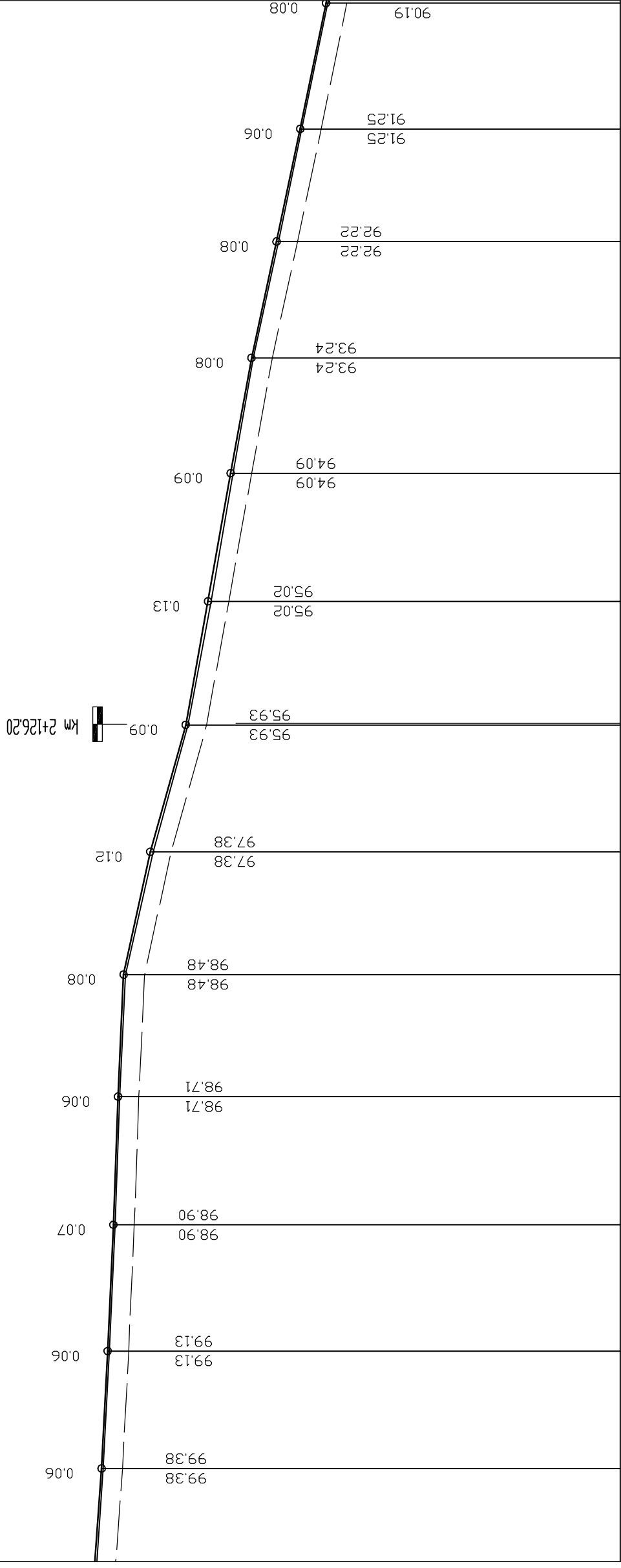
L = 223.78

L = 416.47

| Stacja | Wysokość terenu [m] | Wysokość projektu [m] | Spadek [%] | Długość [m] |
|--------|---------------------|-----------------------|------------|-------------|
| 1+02 | 0.80 | 0.80 | | |
| 1+03 | 16.70 | 16.70 | | |
| 1+04 | 20.60 | 20.60 | | |
| 1+05 | 99.53 | 99.53 | | |
| 1+06 | 18.20 | 18.20 | | |
| 1+07 | 24.30 | 24.30 | | |
| 1+08 | 71.80 | 71.80 | | |
| 1+09 | 18.20 | 18.20 | | |

| | | |
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| 3 | 4 | 5 |
|---|---|---|

NIWELETA
1:200/2000



| Stationing (km) | Elevation (m) | Slope (%) | Length (m) |
|-----------------|---------------|---------------------------|------------|
| 100.23 | - | I = -0.728 % L = 46.40 | |
| 99.98 | 99.92 | I = -0.518 % L = 48.10 | |
| 99.75 | 99.68 | I = -0.447 % L = 51.70 | |
| 99.56 | 99.50 | I = -0.364 % L = 52.50 | |
| 99.46 | 99.46 | I = -0.460 % L = 50.00 | |
| 99.33 | 99.25 | I = -2.169 % L = 50.30 | |
| 98.24 | 98.12 | I = -2.788 % L = 52.00 | |
| 96.79 | 96.70 | I = -1.798 % L = 50.60 | |
| 95.88 | 95.75 | I = -1.771 % L = 52.50 | |
| 94.95 | 94.86 | I = -1.801 % L = 47.20 | |
| 94.10 | 94.02 | I = -2.155 % L = 47.70 | |
| 93.36 | 93.07 | I = -2.100 % L = 46.10 | |
| 92.10 | 92.04 | I = -2.052 % L = 51.50 | |
| 91.05 | 90.97 | | |

6.47 L = 166.39 L = 148.38 L = 143.76

| Stationing (km) | Distance (m) |
|-----------------|--------------|
| 18.20 | 18.20 |
| 66.30 | 66.30 |
| 18.00 | 18.00 |
| 70.50 | 70.50 |
| 92.91 | 92.91 |
| 20.50 | 20.50 |
| 70.80 | 70.80 |
| 22.80 | 22.80 |
| 59.30 | 59.30 |
| 73.40 | 73.40 |
| 25.90 | 25.90 |
| 73.10 | 73.10 |
| 7.68 | 7.68 |
| 20.80 | 20.80 |
| 66.90 | 66.90 |
| 18.40 | 18.40 |

| Stationing (km) | Distance (m) |
|-----------------|--------------|
| 1 08 | 1 08 |
| 1 09 | 1 09 |
| 2 00 | 2 00 |
| 2 01 | 2 01 |
| 2 02 | 2 02 |
| 2 03 | 2 03 |
| 2 04 | 2 04 |

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| wiltech | |
| L. KLICKI, W. RUSZCZYŃSKI | |
| PROJEKT BUDOWLANY PRZEBUDOWY DP GŁADCZYŃ ZATORY POPOWO | |
| Dzielnica: | Przebieg: 3 |
| Opis: mgr inż. W. Ruszczyński | Skala: 1:200/2000 |
| Plan: Ck-84/91 | Data: 08-2005 |
| Plan: Drogowo | Numery: / - / |
| Plan: mgr inż. Lech Klicki | |
| Plan: 7342/Cic-1993 | |

| |
|-------------------------|
| RZĘDNE NIWELETY |
| ELEMENTY NIWELETY |
| RZĘDNE TERENU |
| ELEMENTY TRASY W PLANIE |
| ODLEGŁOŚCI |
| KILOMETRY I HEKTOMETRY |



L. KLICKI, W. RUSZCZYŃSKI

PROJEKT BUDOWLANY
PRZEBUDOWY DP GŁADCZYŃ ZATORY POPOWO

| | | |
|---|------------------------|-------------------|
| Typ projektu: PRZEKRÓJ PODLUŻNY | | Skala: 1:200/2000 |
| Opisownik: mgr inż. W. Ruszczyński | Planowanie: Drogowa | Data: 08-2005 |
| Konwent projektantów: mgr inż. Lech Klicki | Spis rysunków: 1-1 | Numeracja: - |

RZĘDNE NIWELETY

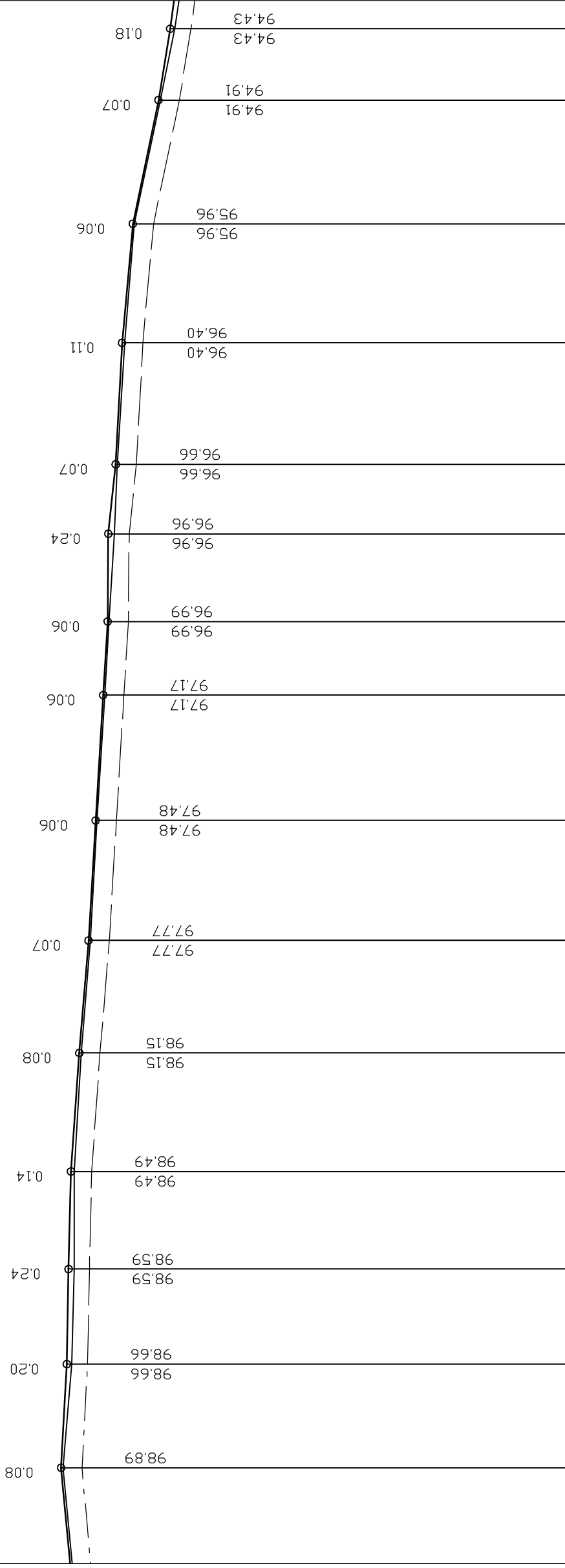
ELEMENTY NIWELETY

RZĘDNE TERENU

ELEMENTY TRASY W PLANIE

ODLEGŁOŚCI

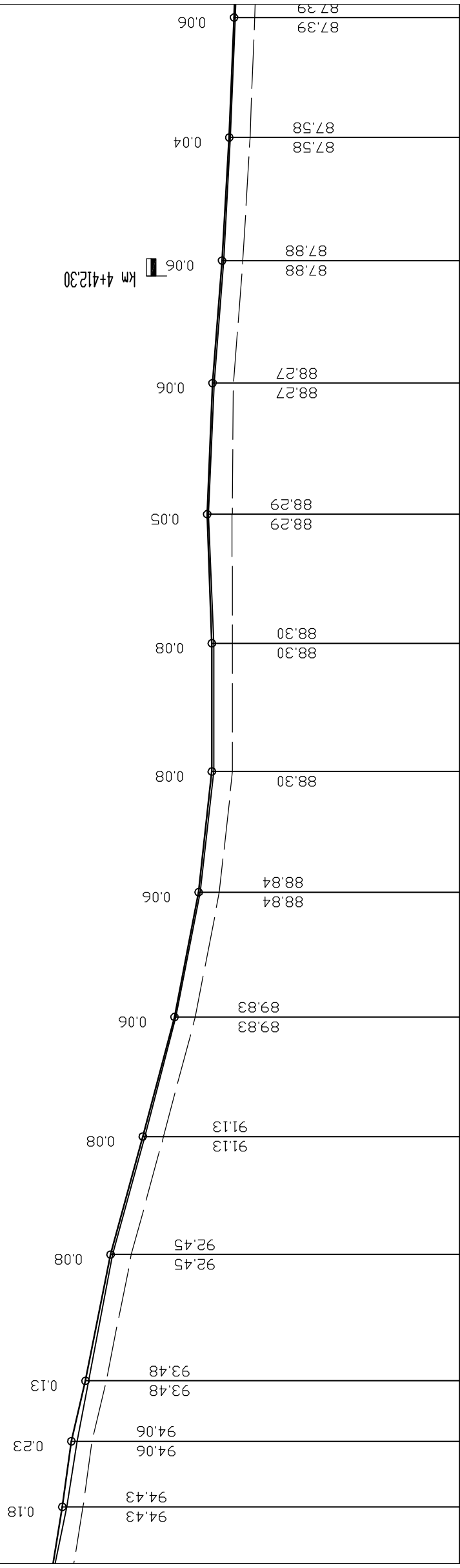
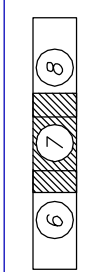
KILOMETRY I HEKTOMETRY



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 99.74 | 99.58 | 99.51 | 99.48 | 99.44 | 99.43 | 99.34 | 99.17 | 99.00 | 98.62 | 98.55 | 98.27 | 98.33 | 98.02 | 97.84 | 97.84 | 97.81 | 97.57 | 97.44 | 97.51 | 97.42 | 97.25 | 97.25 | 96.81 | 96.75 | 96.69 | 95.76 | 95.79 | 95.28 | |
| I = -0.542 % L = 42.40 | I = -0.185 % L = 38.90 | I = -0.246 % L = 39.90 | I = -0.701 % L = 48.50 | I = -0.824 % L = 46.00 | I = -0.591 % L = 49.10 | I = -0.606 % L = 51.30 | I = -0.598 % L = 30.10 | I = -0.084 % L = 35.90 | I = -1.056 % L = 28.40 | I = -0.523 % L = 49.70 | I = -0.903 % L = 48.70 | I = -2.075 % L = 50.60 | I = -1.644 % L = 29.20 | | | | | | | | | | | | | | | | |
| D=8.3934 9 | | | | | | | | | | | | | | | R=900 | | | | | | | | | | | | | | |
| L1=3000 | | | | | | | | | | | | | | | L=130.81 | | | | | | | | | | | | | | |
| L2=60.00 | | | | | | | | | | | | | | | L1=60.0 | | | | | | | | | | | | | | |
| R=550 | | | | | | | | | | | | | | | D=5.79419 9 | | | | | | | | | | | | | | |
| 16.50 | 45.20 | 58.90 | 75.20 | 97.80 | 2.71 | 37.70 | 62.71 | 86.20 | 32.20 | 81.30 | 81.30 | 32.60 | 61.98 | 62.70 | 98.60 | 27.00 | 43.89 | 76.70 | 25.40 | 74.71 | 76.00 | 5.20 | | | | | | | |
| 3 000 | 3 001 | 3 002 | 3 003 | 3 004 | 3 005 | 3 006 | | | | | | | | | | | | | | | | | | | | | | | |

NIWELETA
1:200/2000

5 6 7



| Distance (km) | Ground Elevation (m) | Planned Elevation (m) | Inclination (%) | Length (m) |
|---------------|----------------------|-----------------------|-----------------|------------|
| 95.10 | 94.91 | 94.89 | I = -1.375 % | L = 26.90 |
| 94.20 | 94.33 | 94.29 | I = -2.339 % | L = 24.80 |
| 93.30 | 93.22 | 93.30 | I = -2.727 % | L = 48.40 |
| 92.40 | 90.62 | 90.68 | I = -2.653 % | L = 49.00 |
| 91.50 | 89.63 | 89.69 | I = -1.091 % | L = 49.50 |
| 90.60 | 89.15 | 89.15 | I = 0.000 % | L = 52.60 |
| 89.70 | 89.15 | 89.15 | I = 0.000 % | L = 52.60 |
| 88.80 | 89.34 | 89.34 | I = 0.359 % | L = 52.90 |
| 87.90 | 89.06 | 89.12 | I = -0.409 % | L = 53.80 |
| 87.00 | 88.92 | 88.92 | I = -0.777 % | L = 50.20 |
| 86.10 | 88.73 | 88.73 | I = -0.588 % | L = 50.50 |
| 85.20 | 88.43 | 88.43 | I = -0.392 % | L = 49.20 |
| 84.30 | 88.24 | 88.24 | | |

D=8.1553 9
L=27.65
R=450

L=429.07

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| RZĘDNE NIWELETY |
| ELEMENTY NIWELETY |
| RZĘDNE TERENU |
| ELEMENTY TRASY W PLANIE |
| ODLEGŁOŚCI |
| KILOMETRY I HEKTOMETRY |

| Distance (km) | Ground Elevation (m) | Planned Elevation (m) | Inclination (%) | Length (m) |
|---------------|----------------------|-----------------------|-----------------|------------|
| 5.20 | 32.10 | 34.71 | | |
| 5.20 | 56.90 | 63.35 | | |
| 5.20 | 8.70 | 8.70 | | |
| 5.20 | 57.10 | 57.10 | | |
| 5.20 | 6.10 | 6.10 | | |
| 5.20 | 57.30 | 57.30 | | |
| 5.20 | 6.80 | 6.80 | | |
| 5.20 | 59.40 | 59.40 | | |
| 5.20 | 12.30 | 12.30 | | |
| 5.20 | 66.10 | 66.10 | | |
| 5.20 | 91.42 | 91.42 | | |
| 5.20 | 16.30 | 16.30 | | |
| 5.20 | 66.80 | 66.80 | | |
| 5.20 | 16.00 | 16.00 | | |

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| L. KLICKI, W. RUSZCZYŃSKI PROJEKT BUDOWLANY PRZEBUDOWY DP GŁADZYN ZATORY POPOWO | |
| Typ rysunku: | Przekrój podłużny |
| Rys. nr: | 3 |
| Skala: | 1:200/2000 |
| Obiekty: | W. Ruszczyński |
| mgr inż. / Cie-84/91 | Drogowa |
| 08-2005 | |
| Kawonka prof. inż. Lech Klicki | Specałność: / - / |
| 7342/Cie-1993 | |

wilech L. KLICKI, W. RUSZCZYŃSKI
 Projekt Budowlany
 PRZEBUDOWY DP GŁADCZYN ZATORY POPOWO

| | | | | | |
|---------------------|-------------------------|--------------|---------|--------|------------|
| Dzielnica: | PRZEKRÓJ PODLUŻNY | Rys nr: | 3 | Skala: | 1:200/2000 |
| Opisownik: | mgr inż. W. Ruszczyński | Pełnomocnik: | Drogowa | | |
| Pełnomocnik: | C.k. 84/91 | Data: | 08-2005 | | |
| Wzrost projektanta: | mgr inż. Lech Klicki | Spełniający: | / / | | |
| Wzrost wykonawcy: | 7342/Cic-1993 | Nr umowy: | - | | |

RZĘDNE NIWELETY

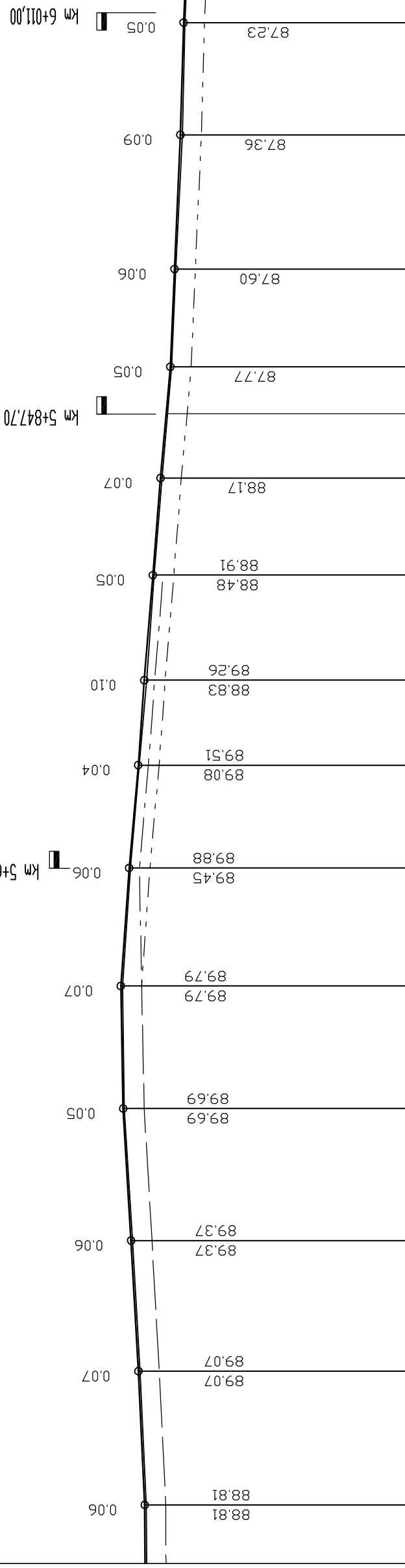
ELEMENTY NIWELETY

RZĘDNE TERENU

ELEMENTY TRASY W PLANIE

ODLEGŁOŚCI

KILOMETRY I HEKTOMETRY




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|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------|-------|-------|-------|-------|-------|
| 89.60 | 89.66 | 89.92 | 90.05 | 90.22 | 90.54 | 90.64 | 90.34 | 90.30 | 89.93 | 89.86 | 89.68 | 89.33 | 89.02 | 88.62 | 88.45 | 88.29 | 88.21 | 88.03 |
| I = 0.477 % L = 54.50 | I = 0.564 % L = 53.20 | I = 0.595 % L = 53.80 | I = 0.200 % L = 49.90 | I = -0.707 % L = 48.10 | I = -0.881 % L = 41.90 | I = -0.725 % L = 34.60 | I = -0.818 % L = 42.80 | I = -0.783 % L = 39.60 | I = -0.883 % L = 45.30 | I = -0.427 % L = 39.80 | I = -0.439 % L = 54.70 | I = -0.284 % L = 45.70 | | | | | | |

71.46 L=175.86 L=56.80 L=228.71 L=103.64

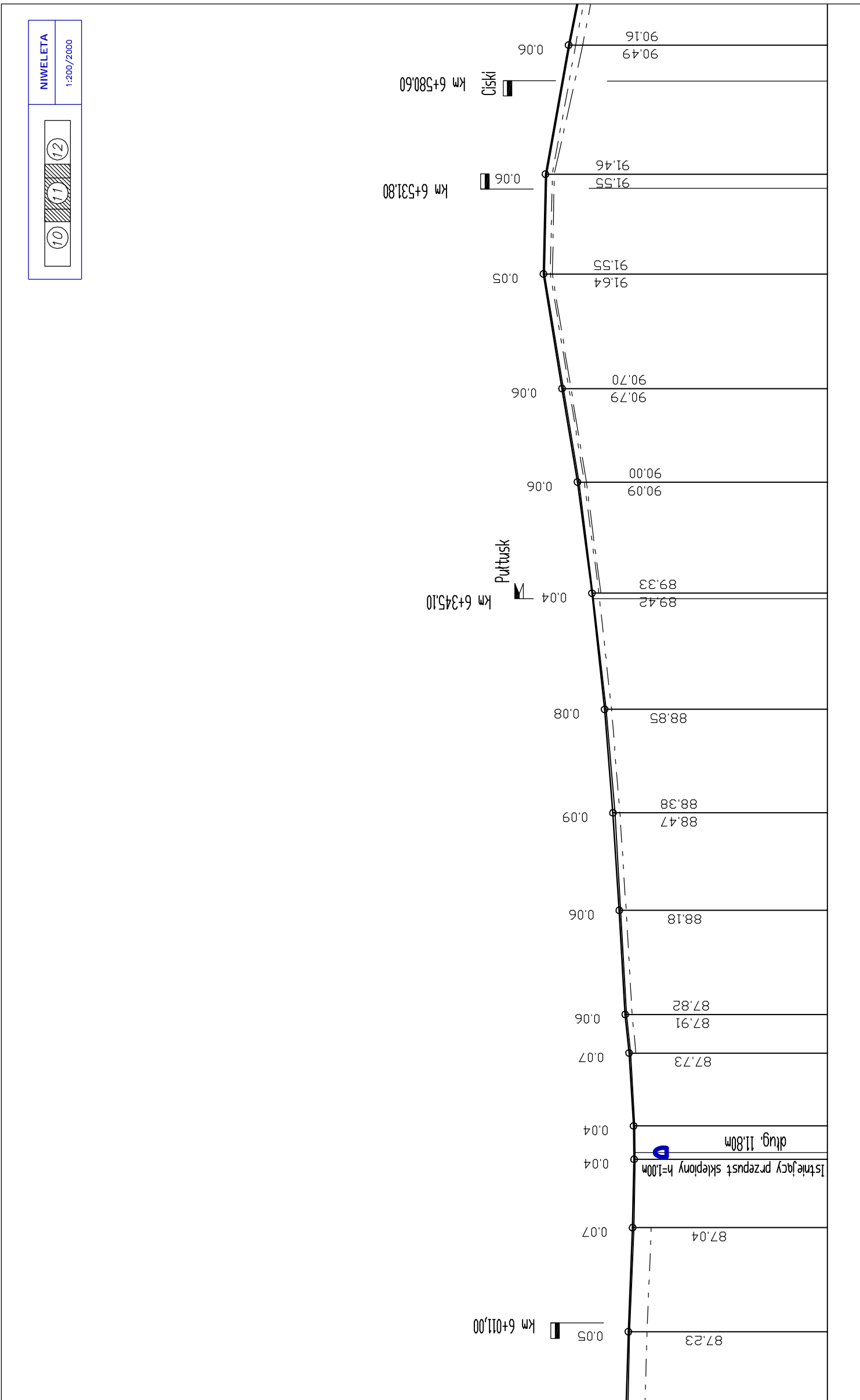
| | | | | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|-------|------|--|
| 3.30 | 57.80 | 81.28 | 11.00 | 64.80 | 14.70 | 57.14 | 62.80 | 4.70 | 13.94 | 39.30 | 82.10 | 21.70 | 67.00 | 6.80 | 42.64 | 61.50 | 7.20 | |
| 5 04 | 5 05 | 5 06 | 5 07 | 5 08 | 5 09 | 6 00 | | | | | | | | | | | | |

NIWELETA
 1:200/2000

| | |
|--|---|
|  L. KLICKI, W. RUSZCZYŃSKI | |
| Tytuł projektu: PROJEKT BUDOWLANY PRZEBUDOWY DP GŁADZYN ZATORY POPOWO | |
| Tytuł rysunku: PRZEKRÓJ PODŁUŻNY | Ryś nr: 3 Skala: 1:200/2000 |
| Opracował: mgr inż. W. Ruszczyński | Data: 08-2005 |
| Projektował: Drogowa | Sprawdził: -/- |
| Nazwa i adres: mgr inż. Lech Klicki 7342 Ciec-19/93 | Nr umowy: - |

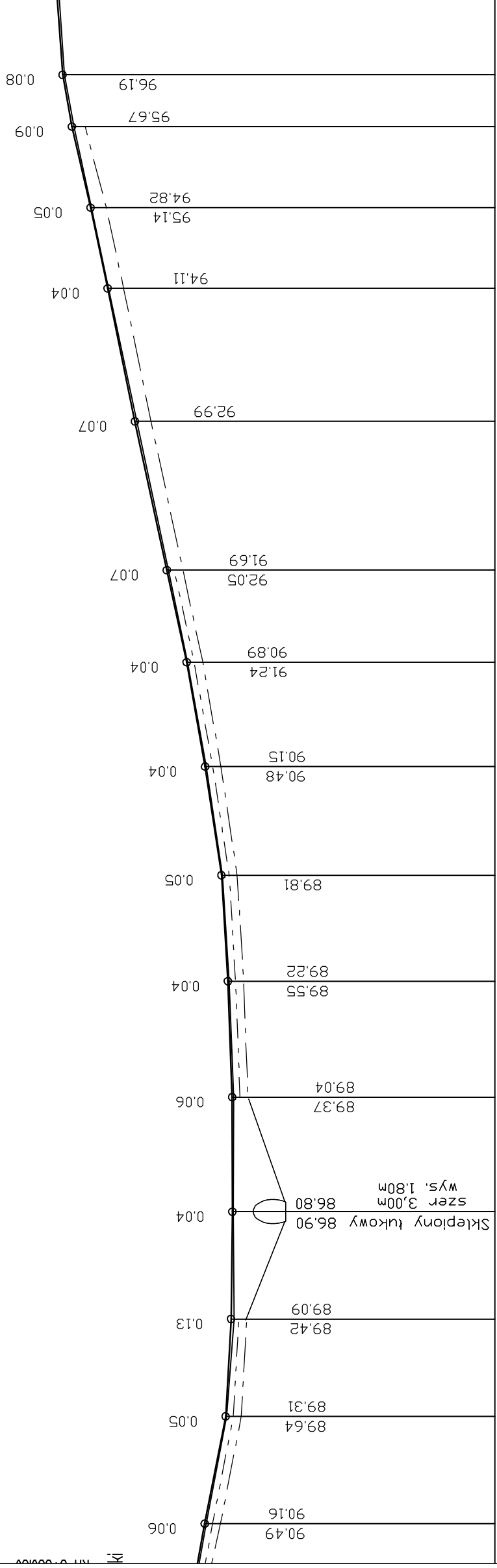
| |
|--------------------------------|
| RZĘDNE NIWELETY |
| ELEMENTY NIWELETY |
| RZĘDNE TERENU |
| ELEMENTY TRASY W PLANIE |
| ODLEGŁOŚCI |
| KILOMETRY I HEKTOMETRY |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--|
| 88.08 | 87.92 | 87.89 | 87.82 | 87.84 | 87.82 | 87.78 | 87.80 | 87.98 | 88.16 | 88.43 | 88.69 | 88.78 | 89.17 | 89.09 | 89.17 | 89.74 | 89.70 | 89.94 | 90.34 | 90.41 | 91.11 | 91.56 | 91.95 | 91.86 | 90.81 | 90.81 | |
| -0.284 % L=45.70 | I=-0.400 % L=47.50 | I=-0.224 % L=31.20 | I=0.619 % L=33.30 | I=0.568 % L=47.50 | I=0.652 % L=44.50 | I=0.805 % L=47.20 | I=1.087 % L=53.00 | I=1.310 % L=50.70 | I=1.639 % L=42.70 | I=1.625 % L=52.30 | I=-0.198 % L=45.50 | I=-1.800 % L=58.90 | I=-1.800 % L=43 | | | | | | | | | | | | | | |
| 103.64 | L=312.86 | | | | | | | | | | | L=106.33 | R=1600 L=126.06 D=5.01580 | | | L=33.9 | | | | | | | | | | | |
| 7.20 | 54.70 | 85.90 | 1.10 | 34.40 | 52.00 | 99.50 | 44.00 | 91.20 | 60.3 | 44.20 | 59.14 | 94.90 | 60.4 | 37.60 | 65.46 | 89.90 | 60.5 | 35.40 | 94.30 | 91.53 | 60.6 | | | | | | |
| 6 ⊕ 0 | 6 ⊕ 1 | 6 ⊕ 2 | 6 ⊕ 3 | 6 ⊕ 4 | 6 ⊕ 5 | 6 ⊕ 6 | 6 ⊕ 7 | 6 ⊕ 8 | 6 ⊕ 9 | 6 ⊕ 10 | 6 ⊕ 11 | 6 ⊕ 12 | 6 ⊕ 13 | 6 ⊕ 14 | 6 ⊕ 15 | 6 ⊕ 16 | 6 ⊕ 17 | 6 ⊕ 18 | 6 ⊕ 19 | 6 ⊕ 20 | 6 ⊕ 21 | | | | | | |



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| 1:200/2000 | |

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| NIWELETA | |
| 1:200/2000 | (11) (12) (13) |



| | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---------------------------|---------------------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|
| 90.86 | 90.75 | 90.20 | 89.95 | 89.73 | 89.68 | 89.69 | 89.86 | 90.13 | 90.61 | 90.79 | 91.28 | 91.54 | 92.35 | 92.46 | 93.10 | 93.65 | 94.76 | 95.36 | 95.46 | 96.04 | 96.22 | 96.59 |
| % | I = -1.945 % L = 43.70 | I = -0.554 % L = 39.70 | I = -0.124 % L = 43.70 | I = 0.009 % L = 46.70 | I = 0.379 % L = 47.20 | I = 0.604 % L = 43.20 | I = 1.503 % L = 44.30 | I = 1.767 % L = 42.50 | I = 2.155 % L = 37.50 | I = 2.145 % L = 60.60 | I = 2.050 % L = 54.20 | I = 2.112 % L = 32.90 | I = 2.300 % L = 33.00 | I = 1.801 % L = 21.00 | I = 0.678 % L = 39.80 | | | | | | | |
| L = 33.93 | | R = 1050 L = 103.26 D = 6.26065 | | L = 161.96 | | | L1 = 40.00 | | D = 16.77334 L2 = 30.00 L = 57.22 R = 350 | | | L = 108.03 | | | L1 = 30.00 | | | D = 1 | | | | |
| 91.53 | 94.30 | 25.46 | 38.00 | 77.70 | 21.40 | 68.10 | 15.30 | 58.50 | 90.68 | 2.80 | 30.68 | 45.30 | 82.80 | 87.90 | 17.90 | 43.40 | 97.60 | 25.93 | 30.50 | 55.93 | 63.50 | 84.60 |
| 6 06 | 6 07 | 6 08 | 6 09 | 7 00 | 7 01 | 7 02 | | | | | | | | | | | | | | | | |

wilech
L. KLICKI, W. RUSZCZYŃSKI

Tytuł opracowania:
PROJEKT BUDOWLANY
PRZEBUDOWY DP GŁADCZYŃ ZATORY POPOWO

| | | |
|----------------------------------|----------------|------------|
| Tytuł opracowania | Rys. nr | Skala |
| PRZEKRÓJ PODŁUŻNY | 3 | 1:200/2000 |
| Opisownik | W. Ruszczyński | Data |
| mgr inż. W. Ruszczyński | /Ck-84/91 | 08. 2005 |
| Konwentor prof. inż. Lech Klicki | 7 342.Cic-1993 | Normy: |
| | | - / - |

| |
|--------------------------------|
| RZĘDNE NIWELETY |
| ELEMENTY NIWELETY |
| RZĘDNE TERENU |
| ELEMENTY TRASY W PLANIE |
| ODLEGŁOŚCI |
| KILOMETRY I HEKTOMETRY |



L. KLICKI, W. RUSZCZYŃSKI

PROJEKT BUDOWLANY
PRZEBUDOWY DP GŁADCZYN ZATORY POPOWO

| | | | |
|-------------------------|--|---------------|------------|
| Typ i rysunek | | Rys. nr | Skala |
| PRZEKRÓJ PODLUŻNY | | 3 | 1:200/2000 |
| Opis obiektu | | Data | |
| mgr inż. W. Ruszczyński | | 08-2005 | |
| /Cis-84/91 | | Drogowa | |
| Kawonk projekt | | Sprawdzający: | |
| mgr inż. Lech Klicki | | /-/- | |
| 7342/Cis-1993 | | | |

RZĘDNE NIWELETY

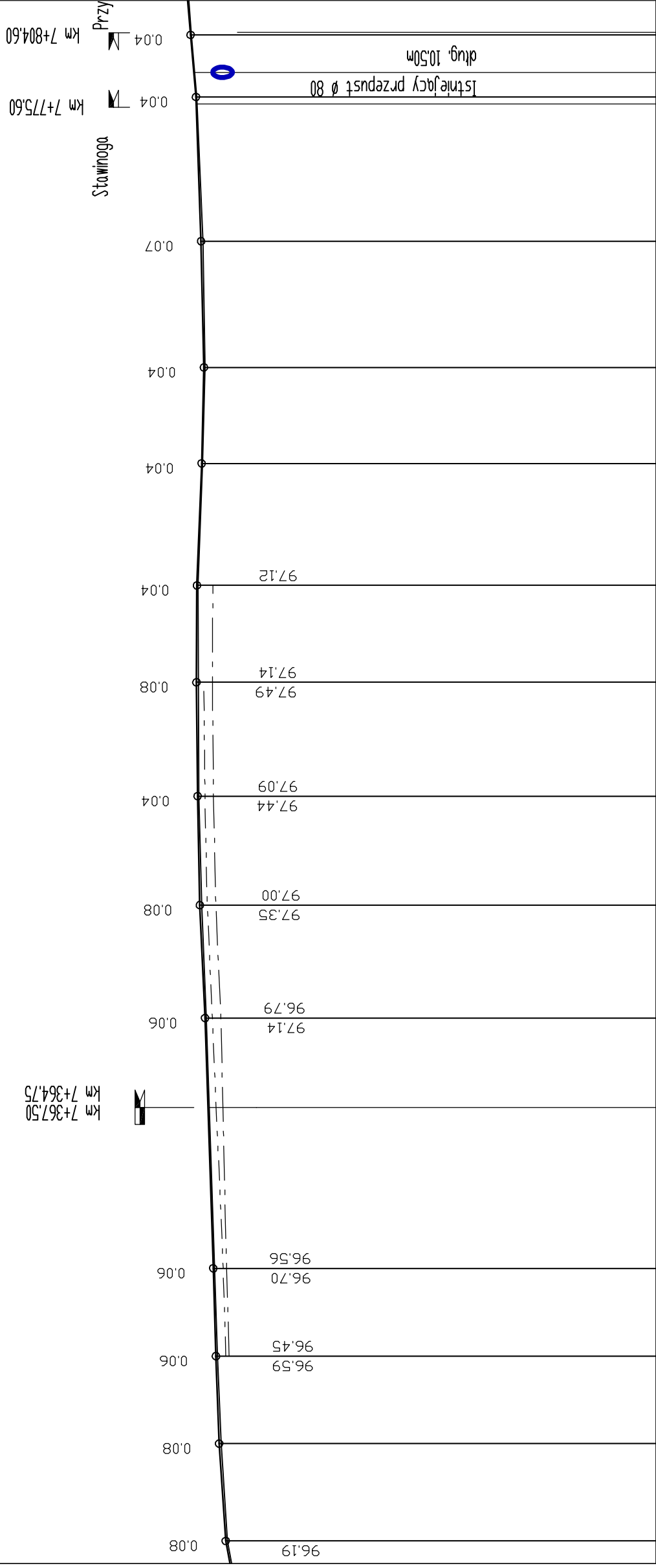
ELEMENTY NIWELETY

RZĘDNE TERENU

ELEMENTY TRASY W PLANIE

ODLEGŁOŚCI

KILOMETRY I HEKTOMETRY



| | | | | | | | | | | | | | | | | | |
|--------------|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------|-------|
| 96.59 | 96.86 | 97.00 | 97.11 | 97.22 | 97.42 | 97.65 | 97.74 | 97.79 | 97.77 | 97.58 | 97.48 | 97.54 | 97.60 | 97.64 | 97.78 | 97.81 | 98.03 |
| 1.7 | I = 0.678 % L = 39.80 | I = 0.363 % L = 35.80 | I = 0.306 % L = 35.90 | I = 0.327 % L = 102.40 | I = 0.455 % L = 46.20 | I = 0.206 % L = 44.60 | I = 0.103 % L = 46.60 | I = -0.051 % L = 39.60 | I = -0.383 % L = 49.90 | I = -0.242 % L = 39.30 | I = 0.242 % L = 51.60 | I = 0.225 % L = 51.60 | I = 0.356 % L = 59.00 | I = 0.866 % L = 23.40 | I = 0.887 % L = 21.70 | | |
| 96.52 | 96.78 | 96.93 | 97.05 | 97.22 | 97.42 | 97.57 | 97.70 | 97.71 | 97.73 | 97.54 | 97.44 | 97.53 | 97.60 | 97.64 | 97.78 | 97.81 | 98.03 |
| R = 950 | | L = 175.84 | | L = 237.96 | | L = 60.69 | | L = 38.58 | | L = 36.61 | | L = 77.4 | | L = 77.4 | | L = 77.4 | |
| D = 14.79918 | | 9 | | L2 = 60.00 | | L = 237.96 | | L = 38.58 | | L = 36.61 | | L = 77.4 | | L = 77.4 | | L = 77.4 | |
| 84.60 | 24.40 | 60.20 | 96.10 | 31.77 | 91.77 | 98.50 | 89.30 | 35.90 | 75.50 | 25.40 | 64.70 | 90.42 | 16.30 | 29.00 | 65.60 | 75.30 | 0.70 |
| 7 02 | 7 03 | 7 04 | 7 05 | 7 06 | 7 07 | 7 08 | 7 09 | 7 10 | 7 11 | 7 12 | 7 13 | 7 14 | 7 15 | 7 16 | 7 17 | 7 18 | 7 19 |

| | |
|------------|------|
| NIWELETA | |
| 1:200/2000 | |
| (12) | (13) |
| (14) | (15) |



L. KLICKI, W. RUSZCZYŃSKI

PROJEKT BUDOWLANY
PRZEBUDOWY DP GŁADZYN ZATORY POPOWO

| | | | |
|-------------------------|------------|---------|------------|
| Typ i numer | | Rys. nr | Skala |
| PRZEKRÓJ PODŁUŻNY | | 3 | 1:200/2000 |
| Opisownik | Data | | |
| mgr inż. W. Ruszczyński | Drogowa | | |
| inż. inż. Lech Klicki | / - / | | |
| Kawonk projekt | Sprawdzał: | | |
| 7342/Cie-1993 | - | | |

RZĘDNE NIWELETY

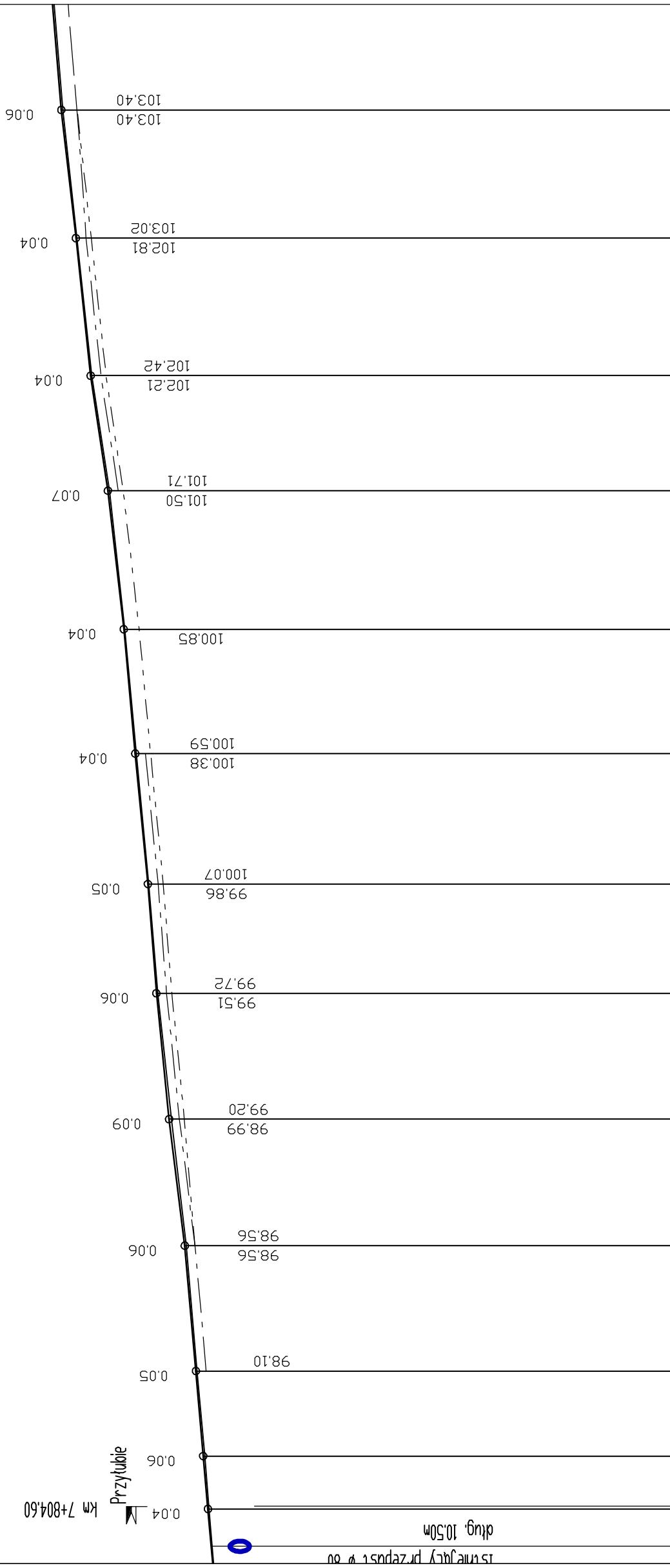
ELEMENTY NIWELETY

RZĘDNE TERENU

ELEMENTY TRASY W PLANIE

ODLEGŁOŚCI

KILOMETRY I HEKTOMETRY



NIWELETA
1:200/2000





L. KLICKI, W. RUSZCZYŃSKI

PROJEKT BUDOWLANY
PRZEBUDOWY DP GŁADZYN ZATORY POROWO

| | |
|---------------------|-------------------------|
| Dyplomowana | |
| Tytuł projektu: | PRZEKRÓJ PODLUZNY |
| Opisowa: | mgr inż. W. Ruszczyński |
| Kierownik projektu: | mgr inż. Lech Klicki |
| Specjalność: | Drógowa |
| Skala: | 1:200/2000 |
| Plan: | 08-2005 |
| Strona: | 1-1 |

RZĘDNE NIWELETY

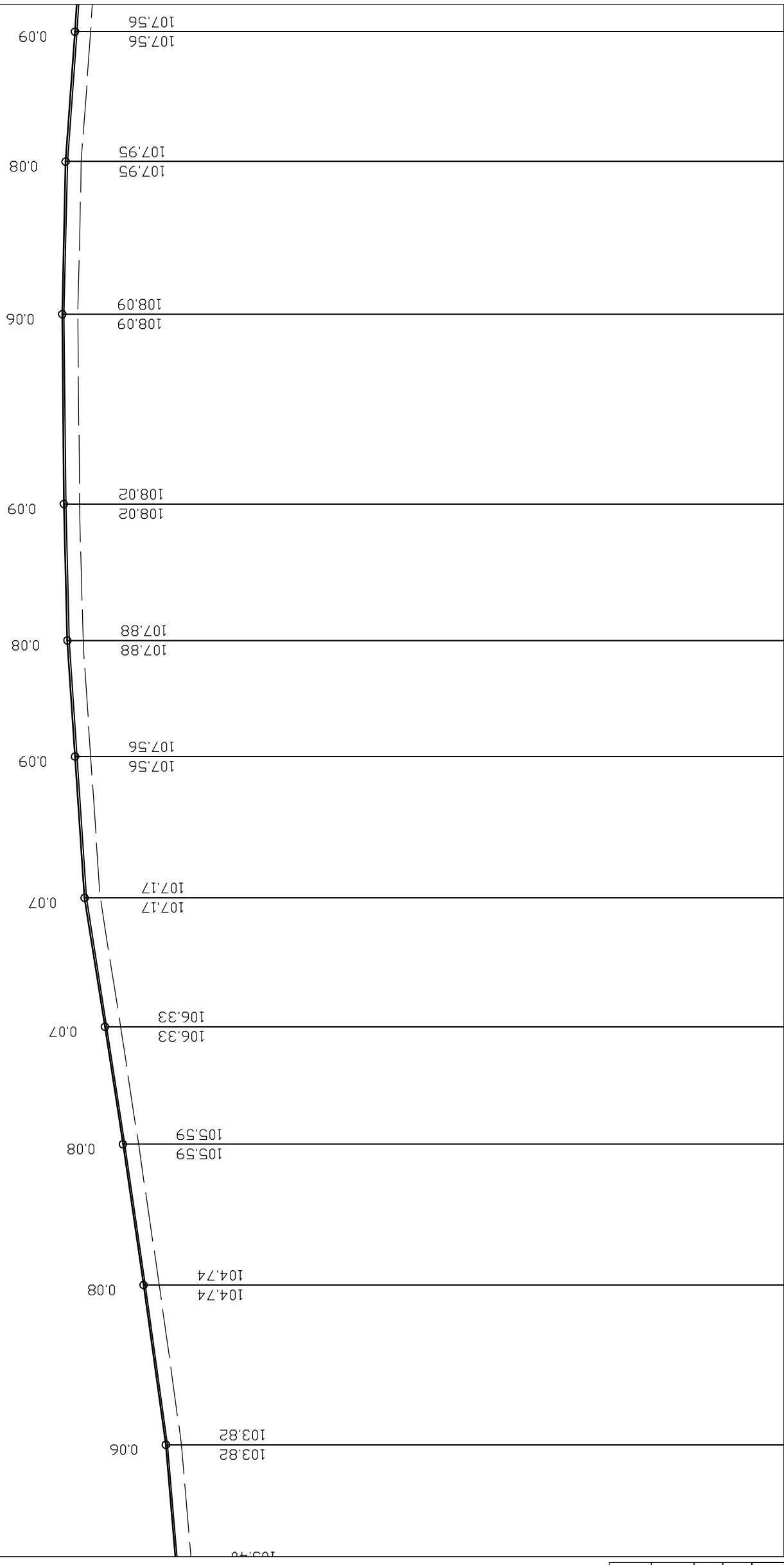
ELEMENTY NIWELETY

RZĘDNE TERENU

ELEMENTY TRASY W PLANIE

ODLEGŁOŚCI

KILOMETRY I HEKTOMETRY



| | | |
|------------|----|----|
| NIWELETA | | |
| 1:200/2000 | | |
| 14 | 15 | 16 |

| Stacja | Wysokość [m] | Gradyent [%] | Długość [m] |
|--------|--------------|---------------------------|-------------|
| 104.46 | 104.40 | I = 1.400 % L = 65.80 | |
| 104.91 | 105.31 | I = 1.466 % L = 58.00 | |
| 106.23 | 106.16 | I = 1.529 % L = 48.40 | |
| 106.97 | 106.90 | I = 1.578 % L = 53.10 | |
| 107.81 | 107.74 | I = 0.675 % L = 58.20 | |
| 108.01 | 108.12 | I = 0.659 % L = 47.80 | |
| 108.52 | 108.44 | I = 0.262 % L = 56.20 | |
| 108.67 | 108.58 | I = 0.083 % L = 78.20 | |
| 108.73 | 108.67 | I = -0.219 % L = 62.90 | |
| 108.59 | 108.51 | I = -0.720 % L = 53.50 | |
| 108.21 | 108.21 | I = -0.720 % L = 53.50 | |

L=176.07

L=184.64

L=222.90

| Stacja | Wysokość [m] | Gradyent [%] | Długość [m] |
|--------|--------------|--------------|-------------|
| 24.80 | 24.80 | | |
| 56.34 | 56.34 | | |
| 90.60 | 90.60 | | |
| 48.60 | 48.60 | | |
| 97.00 | 97.00 | | |
| 50.10 | 50.10 | | |
| 79.24 | 79.24 | | |
| 8.30 | 8.30 | | |
| 56.10 | 56.10 | | |
| 12.30 | 12.30 | | |
| 63.88 | 63.88 | | |
| 90.50 | 90.50 | | |
| 53.40 | 53.40 | | |
| 6.90 | 6.90 | | |



L. KLICKI, W. RUSZCZYŃSKI

PROJEKT BUDOWLANY
PRZEBUDOWY DP GŁADCZYN ZATORY POPOWO

| | | | |
|--|--|----------------|-------------------|
| Działanie: PRZEKRÓJ PODLUŻNY | | Kier. nr: 3 | Skala: 1:200/2000 |
| Opis: mgr inż. W. Ruszczyński / Cje-84/91 | | Data: 08-2005 | |
| Kierownik projektu: mgr inż. Lech Klicki / 7342/Cje-1993 | | Sprawdził: / / | |

RZĘDNE NIWELETY

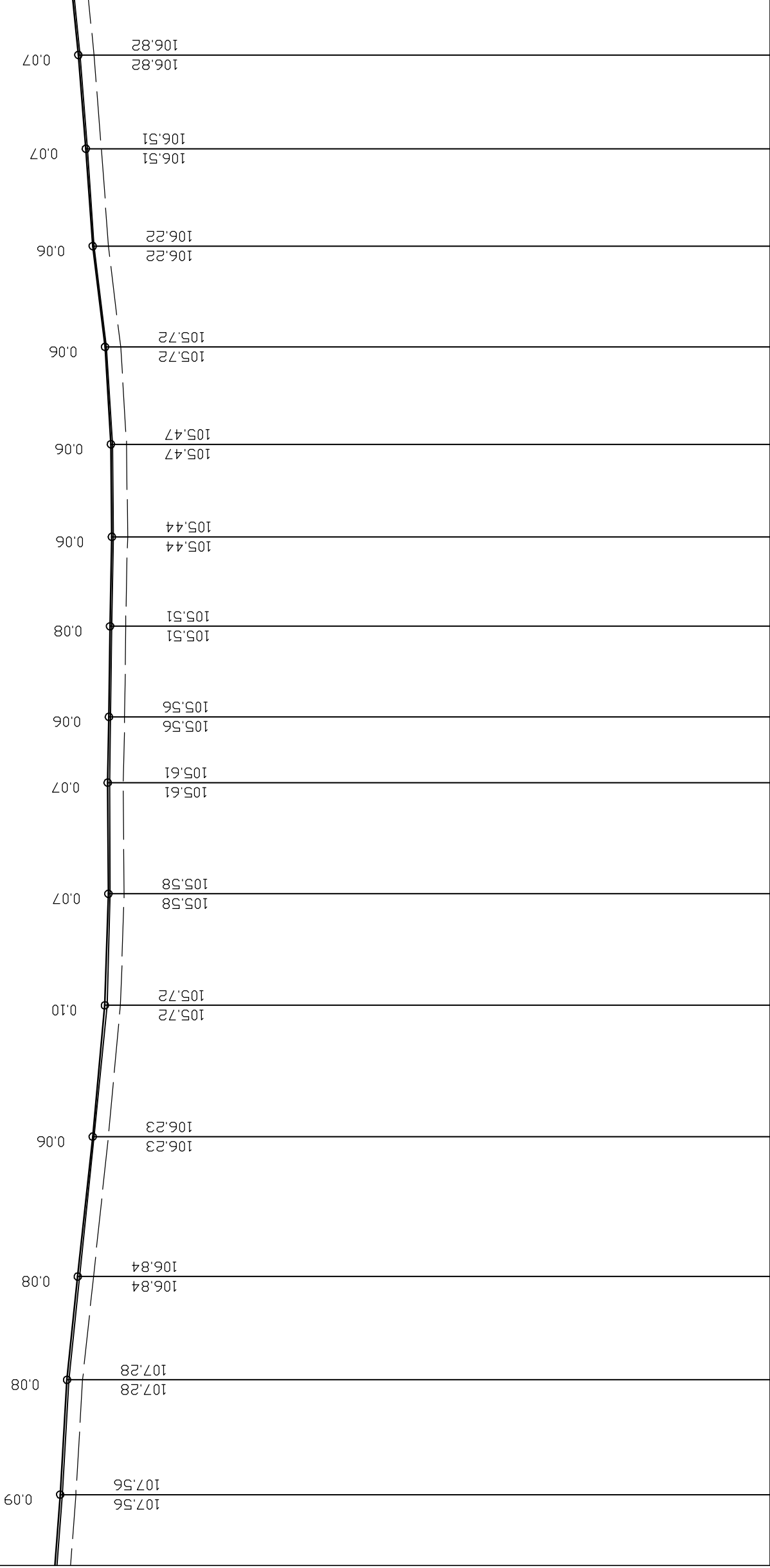
ELEMENTY NIWELETY

RZĘDNE TERENU

ELEMENTY TRASY W PLANIE

ODLEGŁOŚCI

KILOMETRY I HEKTOMETRY



NIWELETA
1:200/2000

| | | | | | | | | | | | | | | | | | |
|------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------|
| 108,12 | 108,01 | 107,93 | 107,41 | 106,81 | 106,27 | 106,15 | 106,18 | 106,14 | 106,16 | 106,08 | 106,02 | 106,12 | 106,36 | 106,81 | 107,08 | 107,46 | |
| 720 % | I = -0,600 % L = 47,30 | I = -1,035 % L = 42,50 | I = -1,035 % L = 42,50 | I = -1,066 % L = 57,60 | I = -0,930 % L = 54,10 | I = -0,316 % L = 45,90 | I = 0,068 % L = 45,80 | I = -0,192 % L = 27,10 | I = -0,123 % L = 37,30 | I = -0,204 % L = 36,80 | I = 0,100 % L = 38,10 | I = 0,606 % L = 40,10 | I = 1,222 % L = 41,50 | I = 0,708 % L = 40,10 | I = 0,801 % L = 38,60 | I = 0,965 % L = 34,00 | |
| L = 276.77 | | | | | | | | | | | | | | | | | |
| L = 193.28 | | | | | | | | | | | | | | | | | |
| 6,90 | 39,94 | 54,20 | 96,70 | 54,30 | 8,40 | 54,30 | 0,10 | 16,71 | 27,20 | 64,50 | 1,30 | 39,40 | 79,50 | 9,99 | 21,00 | 61,10 | 99,70 |
| 9 00 | | | 9 01 | | 9 02 | | 9 03 | | 9 04 | | 9 05 | | 9 06 | | | | |



L. KLICKI, W. RUSZCZYŃSKI

Typ opracowania: PROJEKT BUDOWLANY

PRZEBUDOWY DP GŁADCZYN ZATORY POPOWO

| | | | | | |
|---------------|-------------------------|--------------|---------|-----------|------------|
| Typ rysunku: | PRZEKRÓJ PODŁUŻNY | Rev. nr: | 3 | Skala: | 1:200/2000 |
| Opracował: | mgr inż. W. Ruszczyński | Pełnomoc: | Drogowa | Data: | 08-2005 |
| Konstatacja: | mgr inż. Lech Klicki | Specjalność: | -/- | Numerowy: | - |
| 7342.CiC-1993 | | | | | |

RZĘDNE NIWELETY

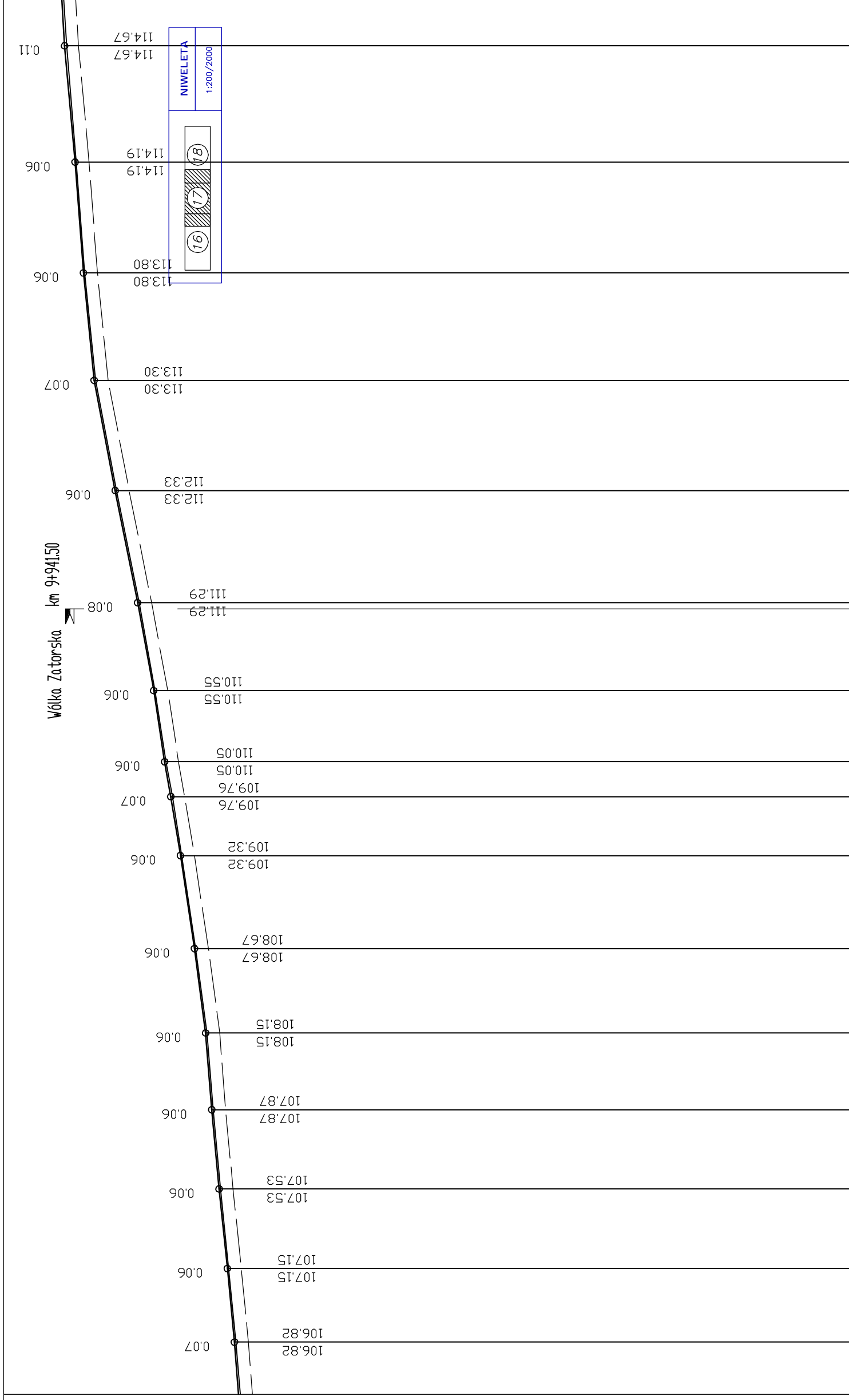
ELEMENTY NIWELETY

RZĘDNE TERENU

ELEMENTY TRASY W PLANIE

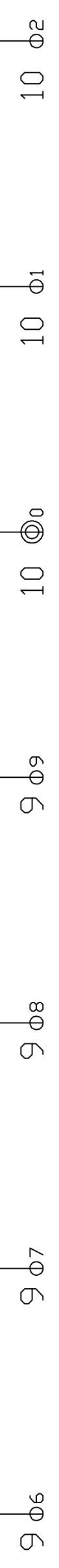
ODLEGŁOŚCI

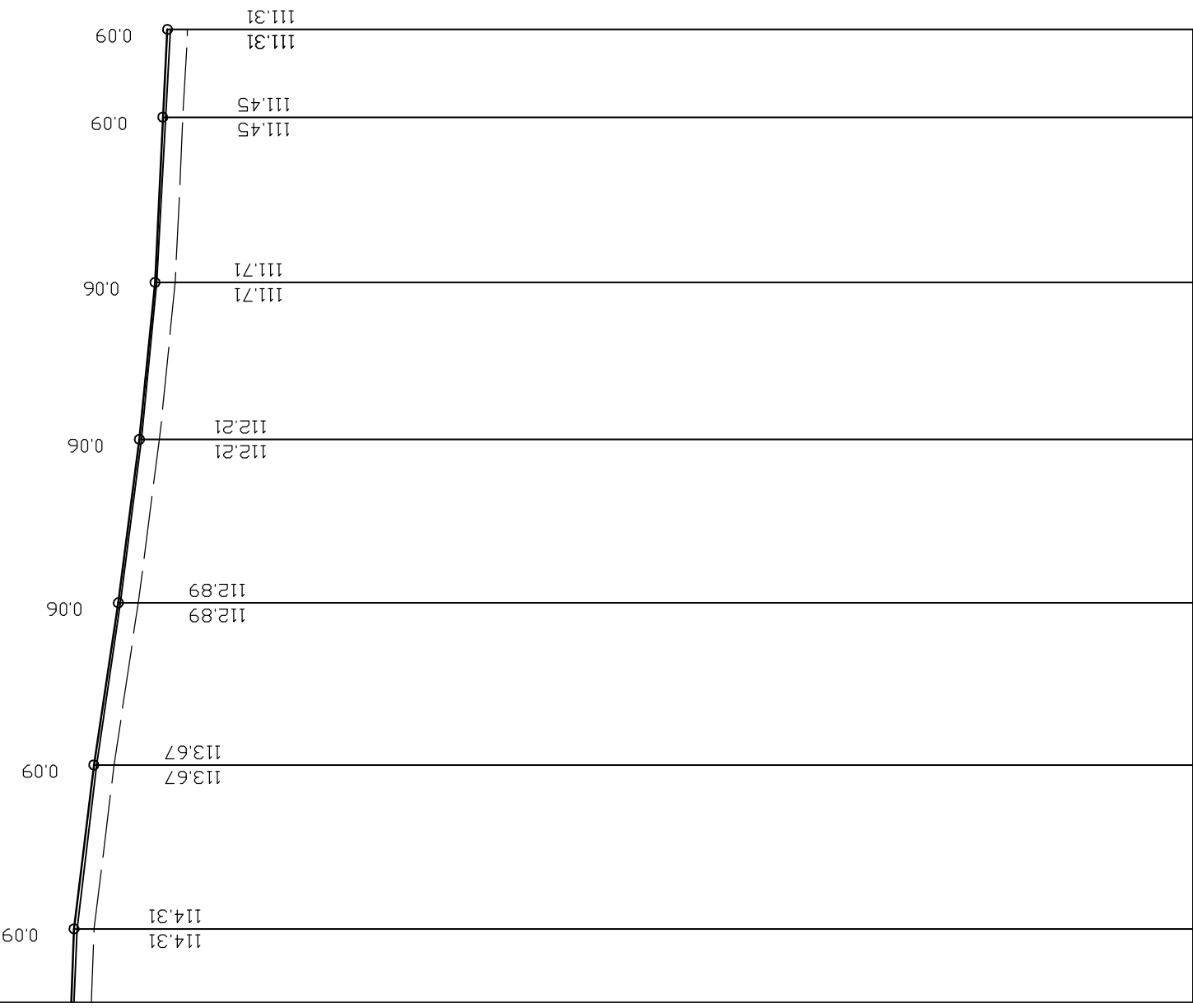
KILOMETRY I HEKTOMETRY



L = 357.16

L = 333.32





| | |
|---|------------------------|
| | |
| Tytuł projektu: L. KLICKI, W. RUSZCZYŃSKI PROJEKT BUDOWLANY PRZEBUDOWY DP GŁADCZYŃ ZATORY POPOWO | |
| Tytuł rysunku: PRZEKRÓJ PODŁUŻNY | Rys. nr: 3 |
| Skala: 1:200/2000 | Data: 08. 2005 |
| Opracował: mgr inż. W. Ruszczyński /Cie-84.91 | Projektant: Diogowa |
| Kierownik projektu: mgr inż. Lech Klicki 7342/Cie-19/93 | Sprawdził: / - / |

| | | | | | | | |
|-------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------|
| RZĘDNE NIWELETY | 114.95 | 114.36 | 113.53 | 112.85 | 112.35 | 112.10 | 111.95 |
| ELEMENTY NIWELETY | I = -1.205 % L = 52.60 | I = -1.511 % L = 52.10 | I = -1.293 % L = 52.50 | I = -0.994 % L = 50.40 | I = -0.473 % L = 53.10 | I = -0.533 % L = 28.16 | |
| RZĘDNE TERENU | 114.86 | 114.23 | 113.47 | 112.79 | 112.29 | 112.01 | 111.86 |
| ELEMENTY TRASY W PLANIE | 29.23 | L = 158.54 | L = 81.46 | | | | |
| ODLEGŁOŚCI | 49.80 | 98.66 2.40 | 54.50 | 7.00 | 57.40 52.21 | 10.50 | 38.66 |
| KILOMETRY I HEKTOMETRY | 10 | 10 | 10 | 10 | 10 | 10 | 10 |