

SS38 "dello Stelvio" - Tangenziale Sud di Sondrio

Nuovo attraversamento in viadotto della linea ferroviaria Sondrio-Tirano e nuove connessioni alla viabilità locale tra le Pk 40+000 e la Pk 40+700 nei Comuni di Sondrio e Montagna in Valtellina

PROGETTO DEFINITIVO

COD. MI634

PROGETTAZIONE:



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VISTO
Il responsabile del procedimento:

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PROGETTO STRADALE
SVINCOLI E INTERSEZIONI
CORSIA USCITA TIRANO - SONDRIO (TRIPPI)
SEZIONI TRASVERSALI

CODICE PROGETTO

PROGETTO

LIV. PROG. ANNO

DPMI0634 D 23

NOME FILE

V00SV03TRASZ01A.DWG

CODICE ELAB.

V00SV03TRASZ01

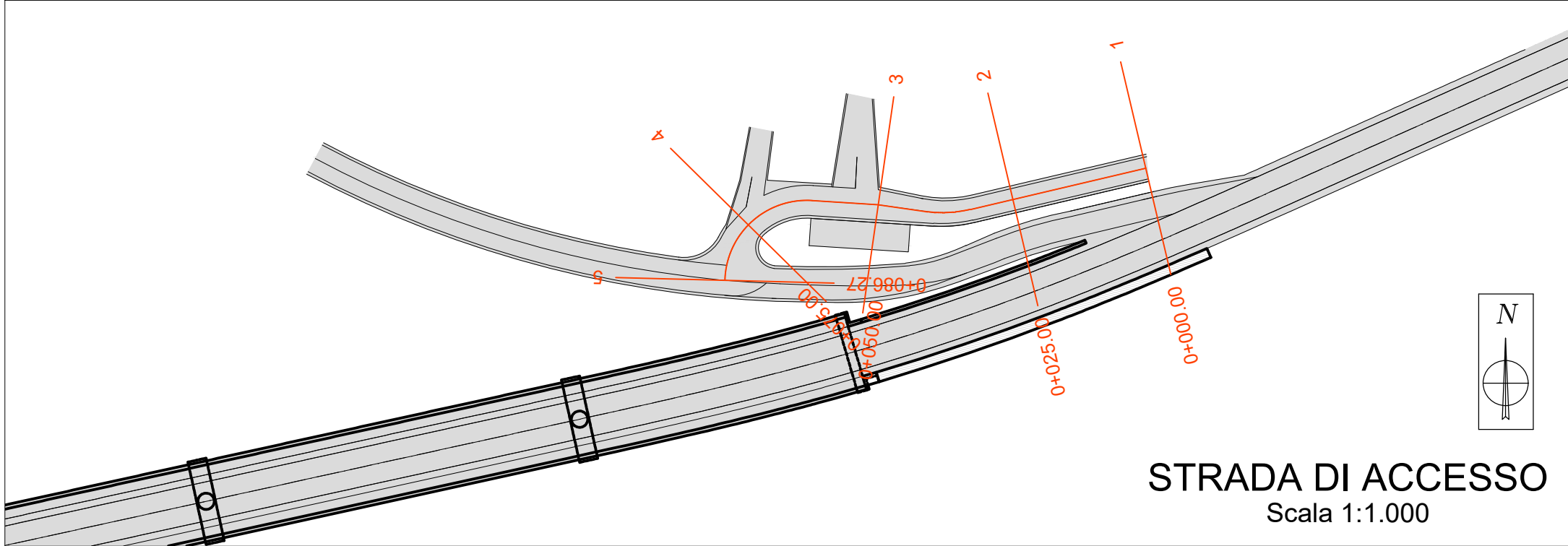
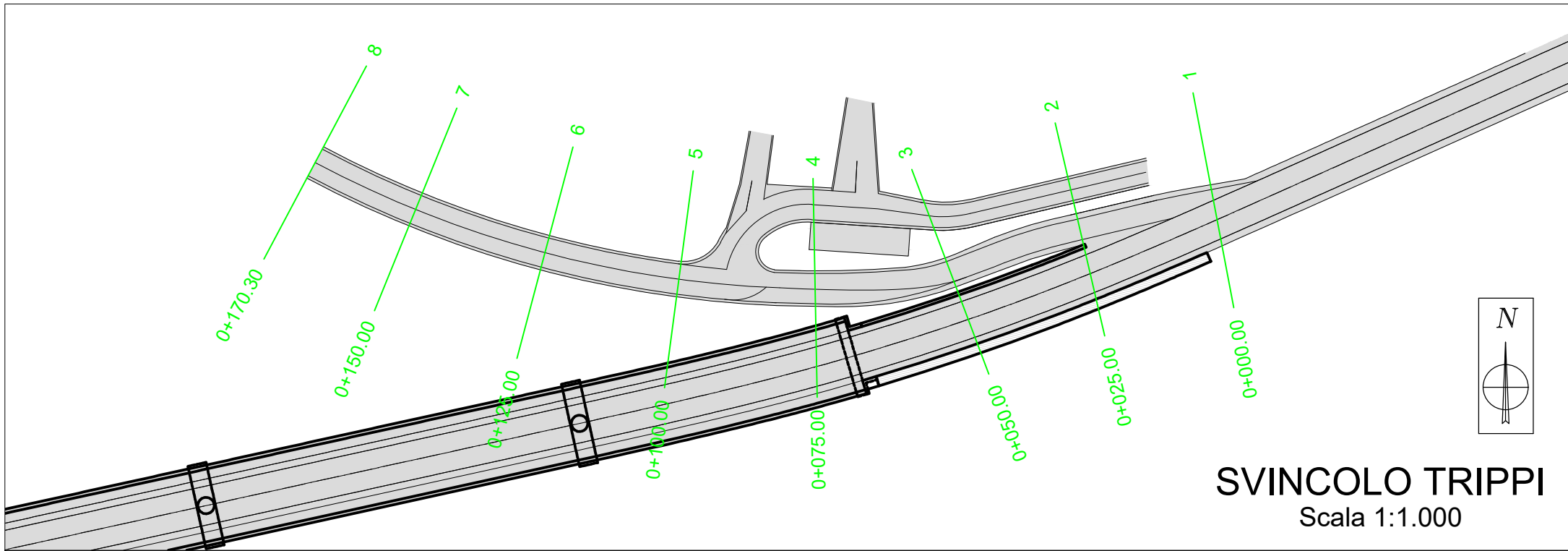
REVISIONE

SCALA:

A

VARIE

| | | | | | |
|----------|-------------|-------------|-----------|------------|-----------|
| A | EMISSIONE | AGOSTO 2023 | C.FLORIDI | C.MAZZETTI | S. MONNI |
| REV. | DESCRIZIONE | DATA | REDATTO | VERIFICATO | APPROVATO |



PROFILO Trippi

SEZIONE 1

PROGRESSIVA 0.00

286

200 200

The profile graph shows a ground line (green) and a project line (black) over a horizontal distance of 200 units. The ground line starts at an elevation of 297.26 and ends at 299.20. The project line starts at 298.94 and ends at 298.79. The vertical curve is defined by a 3.00m parabolic segment. The ground line has several vertical curve segments with lengths ranging from 0.61 to 2.59. The project line has a 6.00m segment. The table below provides the numerical data for these elevations and curve lengths.

| PROGRESSIVE TERRENO | PARZIALI TERRENO | QUOTE TERRENO | PROGRESSIVE PROGETTO | PARZIALI PROGETTO | QUOTE PROGETTO |
|---------------------|------------------|---------------|----------------------|-------------------|----------------|
| -20.00 | 2.38 | 297.26 | | | |
| -17.62 | 0.61 | 297.22 | | | |
| -17.01 | 0.70 | 297.46 | | | |
| -16.31 | 0.70 | 297.77 | | | |
| -15.61 | 0.87 | 297.79 | | | |
| -14.74 | 1.08 | 297.80 | | | |
| -13.66 | 0.62 | 297.79 | | | |
| -13.04 | 0.65 | 297.73 | | | |
| -12.39 | 0.66 | 297.55 | | | |
| -11.73 | 0.74 | 297.36 | | | |
| -10.99 | 0.72 | 297.29 | | | |
| -10.27 | 1.66 | 297.37 | | | |
| -8.61 | 0.66 | 298.60 | | | |
| -7.95 | 0.71 | 298.86 | | | |
| -7.24 | 0.63 | 298.88 | | | |
| -6.61 | 2.59 | 298.85 | | | |
| -4.02 | 0.79 | 298.73 | -3.00 | | 298.94 |
| -3.23 | 1.43 | 298.70 | | | |
| -1.80 | 2.07 | 298.61 | | | |
| 0.27 | 0.88 | 298.48 | | 6.00 | |
| 1.15 | 2.53 | 298.57 | | | |
| 3.68 | 0.62 | 298.59 | 3.00 | | 298.79 |
| 4.30 | 0.68 | 298.77 | | | |
| 4.98 | 0.74 | 298.64 | | | |
| 5.72 | 1.11 | 298.66 | | | |
| 6.83 | 2.45 | 298.68 | | | |
| 9.28 | 1.47 | 298.75 | | | |
| 10.75 | 0.94 | 298.79 | | | |
| 11.69 | 1.06 | 298.82 | | | |
| 12.75 | 1.35 | 298.86 | | | |
| 14.10 | 2.38 | 298.92 | | | |
| 16.48 | 1.34 | 299.03 | | | |
| 17.82 | 1.46 | 299.10 | | | |
| 19.28 | 0.72 | 299.17 | | | |
| 20.00 | | 299.20 | | | |

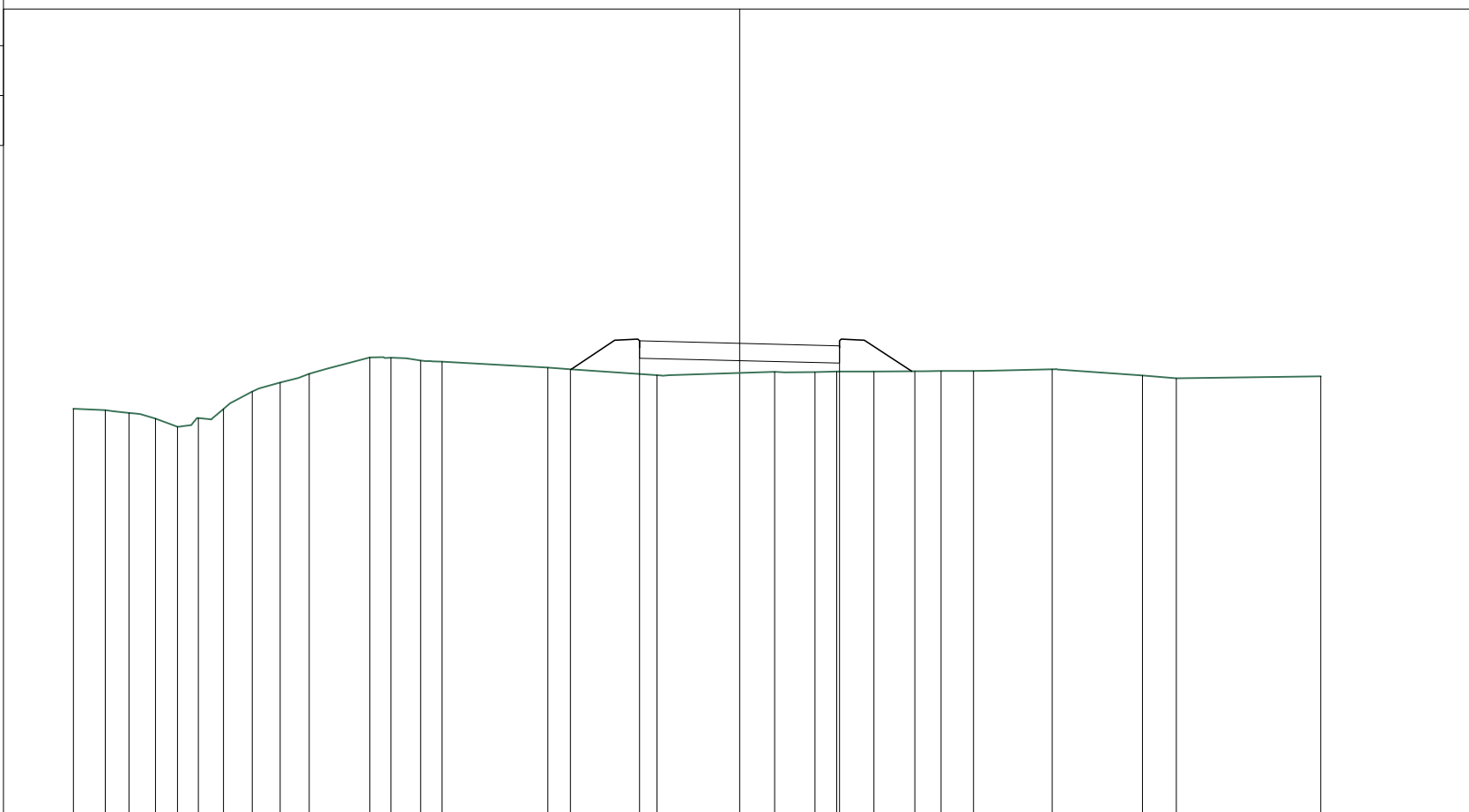
PROFILO Trippi

SEZIONE 2

PROGRESSIVA 25.00

286

200 200



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PROGRESSIVE TERRENO | -20.00 | -19.04 | -18.33 | -17.53 | -16.88 | -16.24 | -15.49 | -14.63 | -13.79 | -12.92 | -11.10 | -10.47 | -9.57 | -8.93 | -5.76 | -5.08 | -2.47 | 1.05 | 2.26 | 2.92 | 4.03 | 5.26 | 6.05 | 7.02 | 9.39 | 12.09 | 13.11 | 17.44 |
| PARZIALI TERRENO | 0.96 | 0.71 | 0.80 | 0.65 | 0.64 | 0.75 | 0.86 | 0.84 | 0.87 | 1.82 | 0.63 | 0.90 | 0.64 | 3.17 | 0.68 | 2.61 | 3.52 | 1.21 | 0.66 | 1.11 | 1.23 | 0.79 | 0.97 | 2.37 | 2.70 | 1.02 | 4.33 | |
| QUOTE TERRENO | 298.19 | 298.15 | 298.07 | 297.89 | 297.65 | 297.91 | 298.19 | 298.71 | 298.98 | 299.24 | 299.74 | 299.72 | 299.64 | 299.60 | 299.43 | 299.38 | 299.20 | 299.30 | 299.30 | 299.31 | 299.31 | 299.32 | 299.32 | 299.33 | 299.38 | 299.19 | 299.11 | 299.16 |
| PROGRESSIVE PROGETTO | | | | | | | | | | | | | | | -3.00 | | | | | 3.00 | | | | | | | | |
| PARZIALI PROGETTO | | | | | | | | | | | | | | | | | | | | 6.00 | | | | | | | | |
| QUOTE PROGETTO | | | | | | | | | | | | | | | 300.23 | | | | | 300.08 | | | | | | | | |

PROFILO Trippi

SEZIONE 3

PROGRESSIVA 50.00

287

200 200

The profile graph shows a terrain profile (green line) and a project profile (black line) with vertical curve data. The terrain profile starts at an elevation of 298.34 and ends at 300.93. The project profile starts at 300.90 and ends at 300.75. The vertical curve data is as follows:

| PROGRESSIVE TERRENO | PARZIALI TERRENO | QUOTE TERRENO | PROGRESSIVE PROGETTO | PARZIALI PROGETTO | QUOTE PROGETTO |
|---------------------|------------------|---------------|----------------------|-------------------|----------------|
| -20.00 | 0.62 | 298.34 | | | |
| -19.38 | 0.79 | 298.18 | | | |
| -18.59 | 1.66 | 298.09 | | | |
| -16.93 | 0.63 | 299.14 | | | |
| -16.30 | 1.13 | 299.60 | | | |
| -15.17 | 0.92 | 300.08 | | | |
| -14.25 | 0.69 | 300.38 | | | |
| -13.56 | 1.19 | 300.42 | | | |
| -12.37 | 0.80 | 300.51 | | | |
| -11.57 | 0.63 | 300.46 | | | |
| -10.94 | 0.83 | 300.45 | | | |
| -10.11 | 1.56 | 300.80 | | | |
| -8.55 | 1.08 | 300.76 | | | |
| -7.47 | 0.71 | 300.54 | | | |
| -6.76 | 1.28 | 300.43 | | | |
| -5.48 | 2.33 | 300.38 | | | |
| -3.15 | 3.22 | 300.30 | -3.00 | | 300.90 |
| 0.07 | 0.72 | 300.17 | | 6.00 | |
| 0.79 | 1.48 | 300.29 | | | |
| 2.27 | 0.71 | 300.33 | | | |
| 2.98 | 0.21 | 300.35 | | | |
| 3.19 | 0.89 | 300.66 | 3.00 | | 300.75 |
| 4.08 | 1.20 | 300.79 | | | |
| 5.28 | 1.48 | 300.65 | | | |
| 6.76 | 1.37 | 300.62 | | | |
| 8.13 | 0.78 | 300.58 | | | |
| 8.91 | 1.40 | 300.59 | | | |
| 10.31 | 1.01 | 300.64 | | | |
| 11.32 | 1.17 | 300.70 | | | |
| 12.49 | 1.22 | 300.76 | | | |
| 13.71 | 0.98 | 300.80 | | | |
| 14.69 | 1.20 | 300.83 | | | |
| 15.89 | 0.96 | 300.86 | | | |
| 16.85 | 2.04 | 300.88 | | | |
| 18.89 | 1.08 | 300.92 | | | |
| 19.97 | | 300.93 | | | |

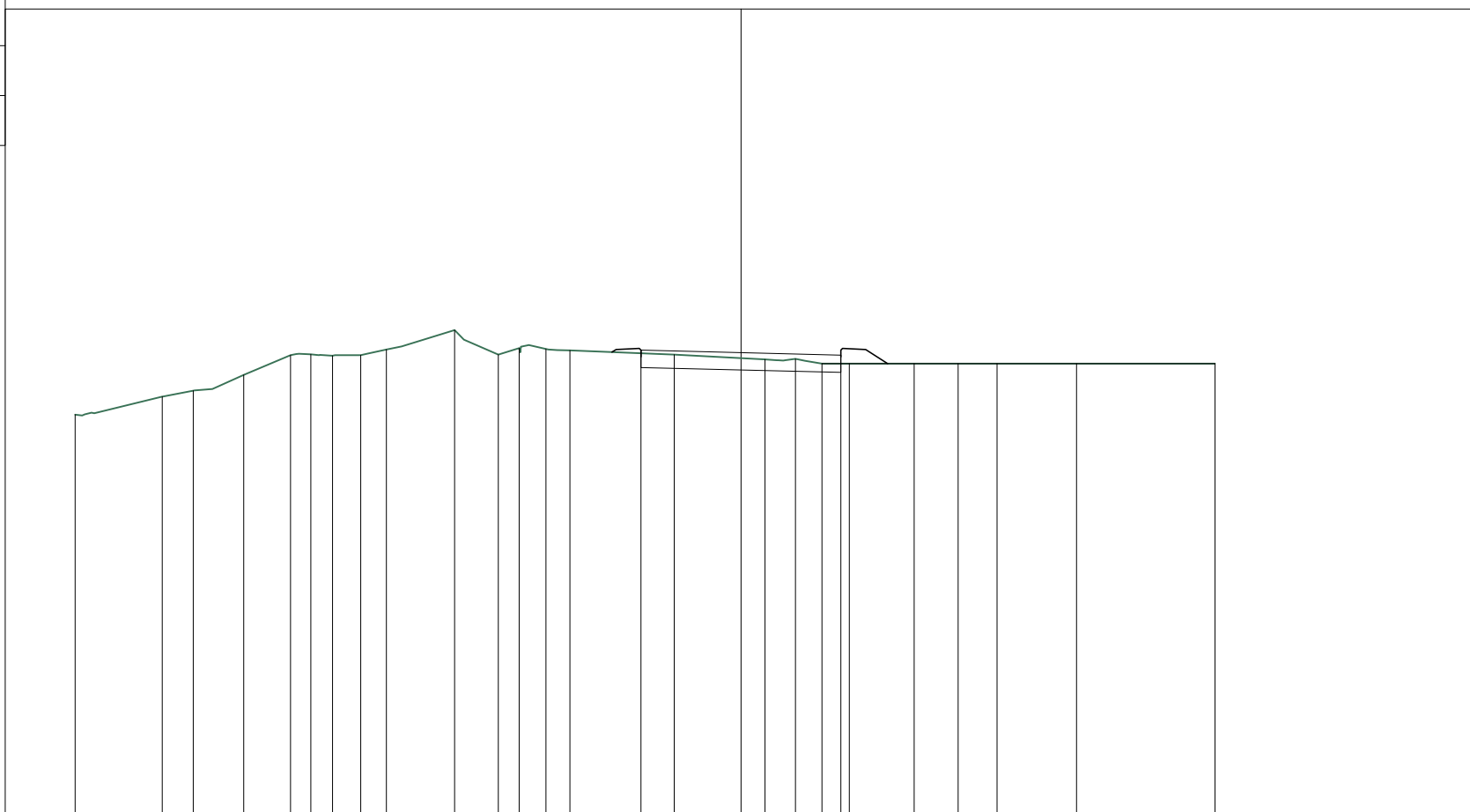
PROFILO Trippi

SEZIONE 4

PROGRESSIVA 75.00

287

200 200

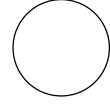


| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PROGRESSIVE TERRENO | -20.00 | -17.38 | -16.45 | -14.94 | -13.53 | -12.92 | -12.26 | -11.42 | -10.65 | -8.60 | -7.29 | -6.66 | -5.86 | -5.14 | -2.00 | 0.72 | 1.64 | 2.43 | 3.26 | 5.20 | 6.53 | 7.69 | 10.08 | 14.24 |
| PARZIALI TERRENO | 2.62 | 0.93 | 1.51 | 1.41 | 0.61 | 0.66 | 0.84 | 0.77 | 2.05 | 1.31 | 0.63 | 0.80 | 0.72 | 3.14 | 2.72 | 0.92 | 0.79 | 0.83 | 1.94 | 1.33 | 1.16 | 2.39 | 4.16 | |
| QUOTE TERRENO | 299.02 | 299.55 | 299.73 | 300.21 | 300.80 | 300.83 | 300.79 | 300.80 | 300.97 | 301.56 | 300.82 | 301.02 | 300.99 | 300.94 | 300.82 | 300.67 | 300.69 | 300.54 | 300.54 | 300.54 | 300.54 | 300.54 | 300.54 | 300.54 |
| PROGRESSIVE PROGETTO | | | | | | | | | | | | | | | -3.00 | | | | 3.00 | | | | | |
| PARZIALI PROGETTO | | | | | | | | | | | | | | | 6.00 | | | | | | | | | |
| QUOTE PROGETTO | | | | | | | | | | | | | | | 300.95 | | | | 300.80 | | | | | |

PROFILO Trippi

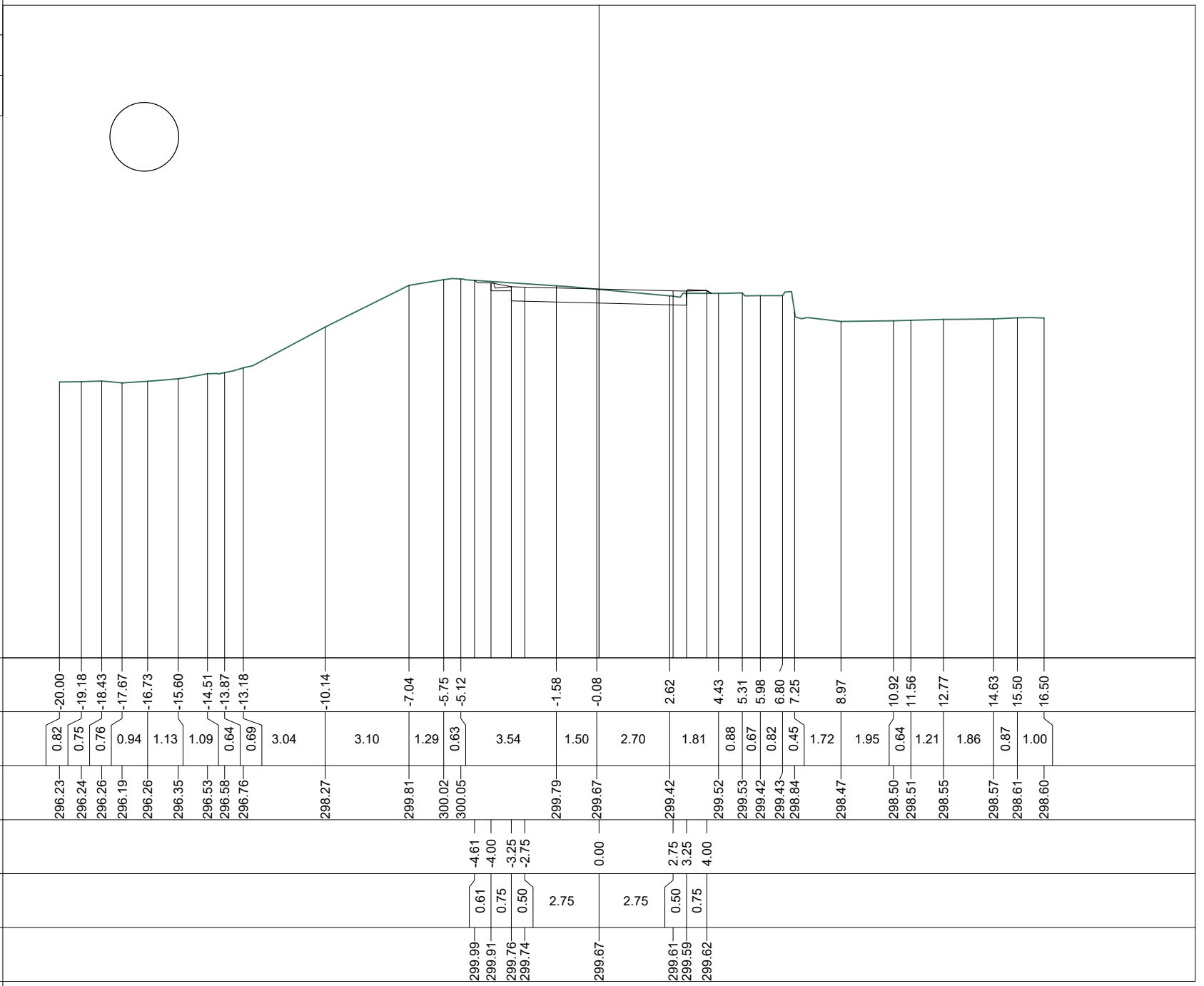
SEZIONE 6

PROGRESSIVA 125.00



286

200 200



299.99
299.91
299.76
299.74

-4.61
-4.00
-3.25
-2.75

0.61
0.75
0.50

2.75

2.75

299.61
299.59
299.62

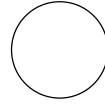
2.75
3.25
4.00

0.50
0.75

PROFILO Trippi

SEZIONE 8

PROGRESSIVA 170.30



286

200 200

| | | | | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PROGRESSIVE TERRENO | -6.95 | -4.91 | -3.91 | -3.28 | 0.72 | 4.60 | 8.12 | 8.86 | 9.39 |
| PARZIALI TERRENO | 2.04 | 1.00 | 0.63 | 4.00 | 3.88 | 3.52 | 0.74 | 0.53 | |
| QUOTE TERRENO | 298.27 | 298.52 | 298.62 | 298.58 | 298.36 | 298.06 | 298.15 | 298.15 | 298.28 |
| PROGRESSIVE PROGETTO | | -4.53 | -4.00 | -3.25 | -2.75 | 0.00 | 2.75 | 3.25 | 4.00 |
| PARZIALI PROGETTO | | 0.53 | 0.75 | 0.50 | 2.75 | 2.75 | 0.50 | 0.75 | |
| QUOTE PROGETTO | | 298.61 | 298.63 | 298.48 | 298.47 | 298.40 | 298.33 | 298.32 | 298.34 |

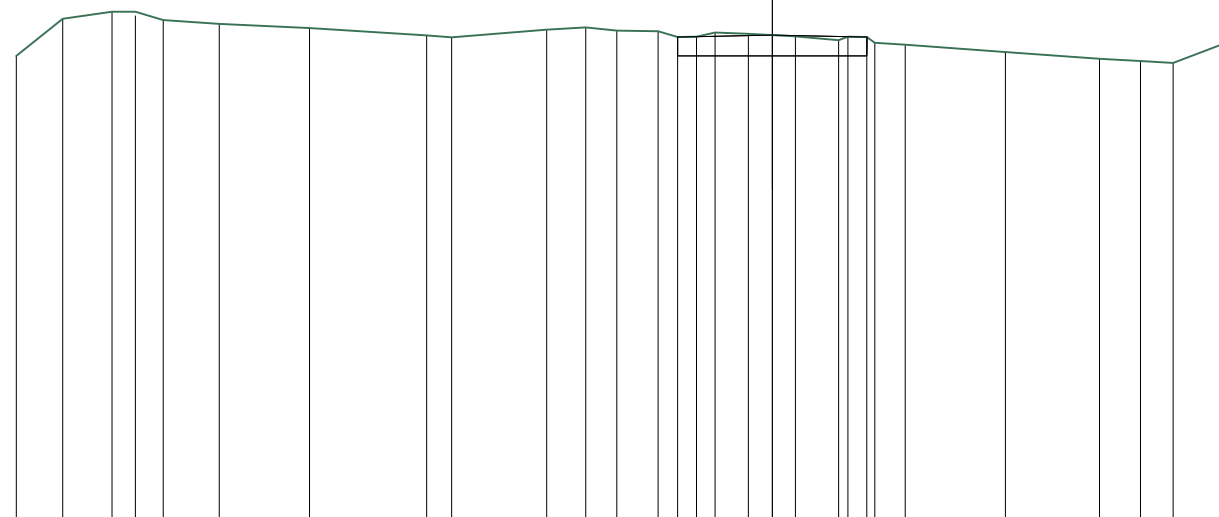
PROFILO trippi_2

SEZIONE 1

PROGRESSIVA 0.00

286

200 200



| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PROGRESSIVE TERRENO | -20.00 | -18.77 | -17.46 | -16.84 | -16.11 | -14.63 | -12.24 | | -9.15 | -8.48 | -5.96 | -4.93 | -4.11 | -3.02 | -1.51 | -0.63 | 0.61 | 1.76 | 2.71 | 3.51 | 6.17 | 8.66 | 9.74 | 10.60 | 11.94 |
| PARZIALI TERRENO | | 1.23 | 1.31 | 0.62 | 0.73 | 1.48 | 2.39 | 3.09 | 0.67 | 2.52 | 1.03 | 0.82 | 1.09 | 1.51 | 0.88 | 1.24 | 1.15 | 0.95 | 0.80 | 2.66 | 2.49 | 1.08 | 0.86 | 1.34 | |
| QUOTE TERRENO | 298.28 | 299.26 | 299.45 | 299.34 | 299.23 | 299.13 | 299.01 | | 298.82 | 298.77 | 298.97 | 299.03 | 298.95 | 298.93 | 298.89 | 298.86 | 298.79 | 298.69 | 298.62 | 298.57 | 298.38 | 298.20 | 298.14 | 298.09 | 298.60 |
| PROGRESSIVE PROGETTO | | | | | | | | | | | | | | -2.50 | -2.00 | 0.00 | | 2.00 | 2.50 | | | | | | |
| PARZIALI PROGETTO | | | | | | | | | | | | | | 0.50 | 2.00 | 2.00 | | 0.50 | | | | | | | |
| QUOTE PROGETTO | | | | | | | | | | | | | | 298.77 | 298.78 | 298.82 | | 298.78 | 298.77 | | | | | | |

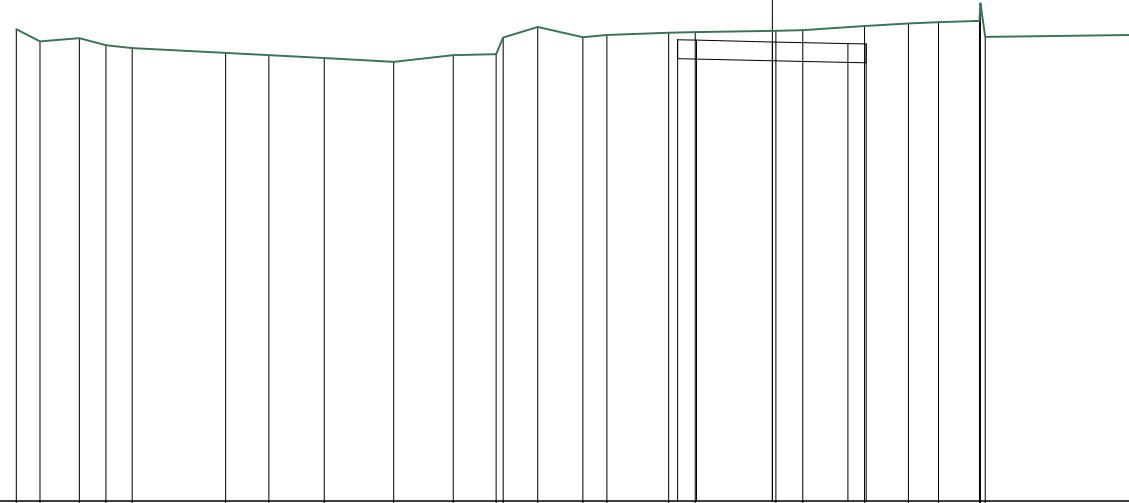
PROFILO trippi_2

SEZIONE 2

PROGRESSIVA 25.00

288

200 200



| PROGRESSIVE TERRENO | PARZIALI TERRENO | QUOTE TERRENO | PROGRESSIVE PROGETTO | PARZIALI PROGETTO | QUOTE PROGETTO |
|---------------------|------------------|---------------|----------------------|-------------------|----------------|
| -20.00 | 0.63 | 300.48 | | | |
| -19.37 | 1.04 | 300.16 | | | |
| -18.33 | 0.70 | 300.24 | | | |
| -17.63 | 0.70 | 300.06 | | | |
| -16.93 | 2.47 | 299.98 | | | |
| -14.46 | 1.15 | 299.85 | | | |
| -13.31 | 1.46 | 299.80 | | | |
| -11.85 | 1.84 | 299.72 | | | |
| -10.01 | 1.57 | 299.62 | | | |
| -8.44 | 1.14 | 299.79 | | | |
| -7.30 | 0.18 | 299.82 | | | |
| -7.12 | 0.91 | 300.26 | | | |
| -6.21 | 1.20 | 300.54 | | | |
| -5.01 | 0.64 | 300.27 | | | |
| -4.37 | 1.63 | 300.33 | | | |
| -2.74 | 0.70 | 300.38 | -2.50 | 0.50 | 300.20 |
| -2.04 | 2.14 | 300.41 | -2.00 | 2.00 | 300.19 |
| 0.10 | 0.70 | 300.44 | 0.00 | 2.01 | 300.14 |
| 0.80 | 1.64 | 300.45 | | | |
| 2.44 | 1.16 | 300.57 | 2.01 | 0.47 | 300.10 |
| 3.60 | 0.79 | 300.63 | 2.48 | | 300.09 |
| 4.39 | 1.09 | 300.67 | | | |
| 5.48 | 0.03 | 300.70 | | | |
| 5.51 | 0.12 | 301.17 | | | |
| 5.63 | 3.87 | 300.28 | | | |
| 9.50 | | 300.33 | | | |

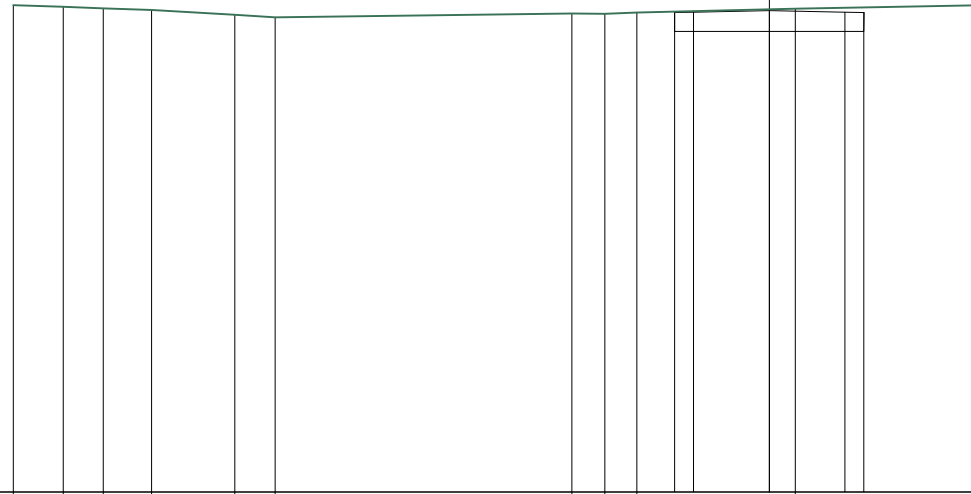
PROFILO trippi_2

SEZIONE 3

PROGRESSIVA 50.00

288

200 200



| | | | | | | | | | | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|--------|
| PROGRESSIVE TERRENO | -20.00 | -18.67 | -17.61 | -16.34 | -14.14 | -13.07 | | -5.22 | -4.35 | -3.50 | | 0.69 | | 5.68 | 5.73 |
| PARZIALI TERRENO | 1.33 | 1.06 | 1.27 | 2.20 | 1.07 | | 7.85 | 0.87 | 0.85 | | 4.19 | | 4.99 | 0.05 | |
| QUOTE TERRENO | 300.88 | 300.84 | 300.80 | 300.75 | 300.62 | 300.56 | | 300.66 | 300.65 | 300.68 | | 300.79 | | 300.88 | 300.88 |
| PROGRESSIVE PROGETTO | | | | | | | | | | -2.50 | -2.00 | | 0.00 | 2.00 | 2.50 |
| PARZIALI PROGETTO | | | | | | | | | 0.50 | 2.00 | | 2.00 | | 0.50 | |
| QUOTE PROGETTO | | | | | | | | 300.69 | 300.70 | | 300.74 | | 300.70 | 300.69 | |

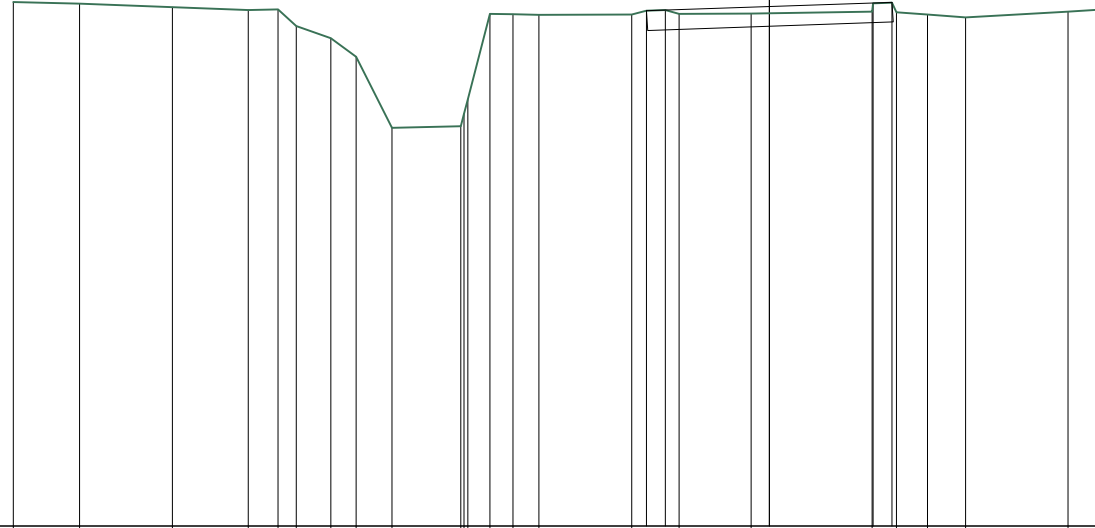
PROFILO trippi_2

SEZIONE 4

PROGRESSIVA 75.00

287

200 200



| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PROGRESSIVE TERRENO | -20.00 | -18.24 | -15.79 | -13.78 | -12.99 | -12.51 | -11.60 | -10.93 | -9.98 | -8.16 | -8.07 | -7.97 | -7.39 | -6.78 | -6.09 | -3.63 | -2.39 | -0.48 | 2.72 | 3.37 | 4.18 | 5.19 | 7.90 | 8.85 |
| PARZIALI TERRENO | 1.76 | 2.45 | 2.01 | 0.79 | 0.48 | 0.91 | 0.67 | 0.95 | 1.82 | 0.09 | 0.10 | 0.58 | 0.61 | 0.69 | 2.46 | 1.24 | 1.91 | 3.20 | 0.65 | 0.81 | 1.01 | 2.71 | 0.95 | |
| QUOTE TERRENO | 300.86 | 300.82 | 300.73 | 300.65 | 300.66 | 300.23 | 299.90 | 299.41 | 297.53 | 297.57 | 297.90 | 298.29 | 300.54 | 300.54 | 300.52 | 300.53 | 300.55 | 300.56 | 300.60 | 300.59 | 300.53 | 300.46 | 300.61 | 300.66 |
| PROGRESSIVE PROGETTO | | | | | | | | | | | | | | | | -3.25 | -2.75 | 0.00 | 2.75 | 3.25 | | | | |
| PARZIALI PROGETTO | | | | | | | | | | | | | | | | 0.50 | 2.75 | | 2.75 | 0.50 | | | | |
| QUOTE PROGETTO | | | | | | | | | | | | | | | | 300.63 | 300.64 | 300.74 | 300.83 | 300.85 | | | | |

