


PONTE SULLO STRETTO DI MESSINA



PROGETTO DEFINITIVO

EUROLINK S.C.p.A.

IMPREGILO S.p.A. (MANDATARIA)
 SOCIETÀ ITALIANA PER CONDOTTE D'ACQUA S.p.A. (MANDANTE)
 COOPERATIVA MURATORI E CEMENTISTI - C.M.C. DI RAVENNA SOC. COOP. A.R.L. (MANDANTE)
 SACYR S.A.U. (MANDANTE)
 ISHIKAWAJIMA - HARIMA HEAVY INDUSTRIES CO. LTD (MANDANTE)
 A.C.I. S.C.P.A. - CONSORZIO STABILE (MANDANTE)

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|---|--|---|--|
| <p>IL PROGETTISTA</p> <p>Dott. Ing. E. Pagani Ordine Ingegneri Milano n° 15408</p>  | <p>IL CONTRAENTE GENERALE</p> <p>Project Manager (Ing. P.P. Marcheselli)</p> | <p>STRETTO DI MESSINA Direttore Generale e RUP Validazione (Ing. G. Fiammenghi)</p> | <p>STRETTO DI MESSINA Amministratore Delegato (Dott. P. Ciucci)</p> |
|---|--|---|--|

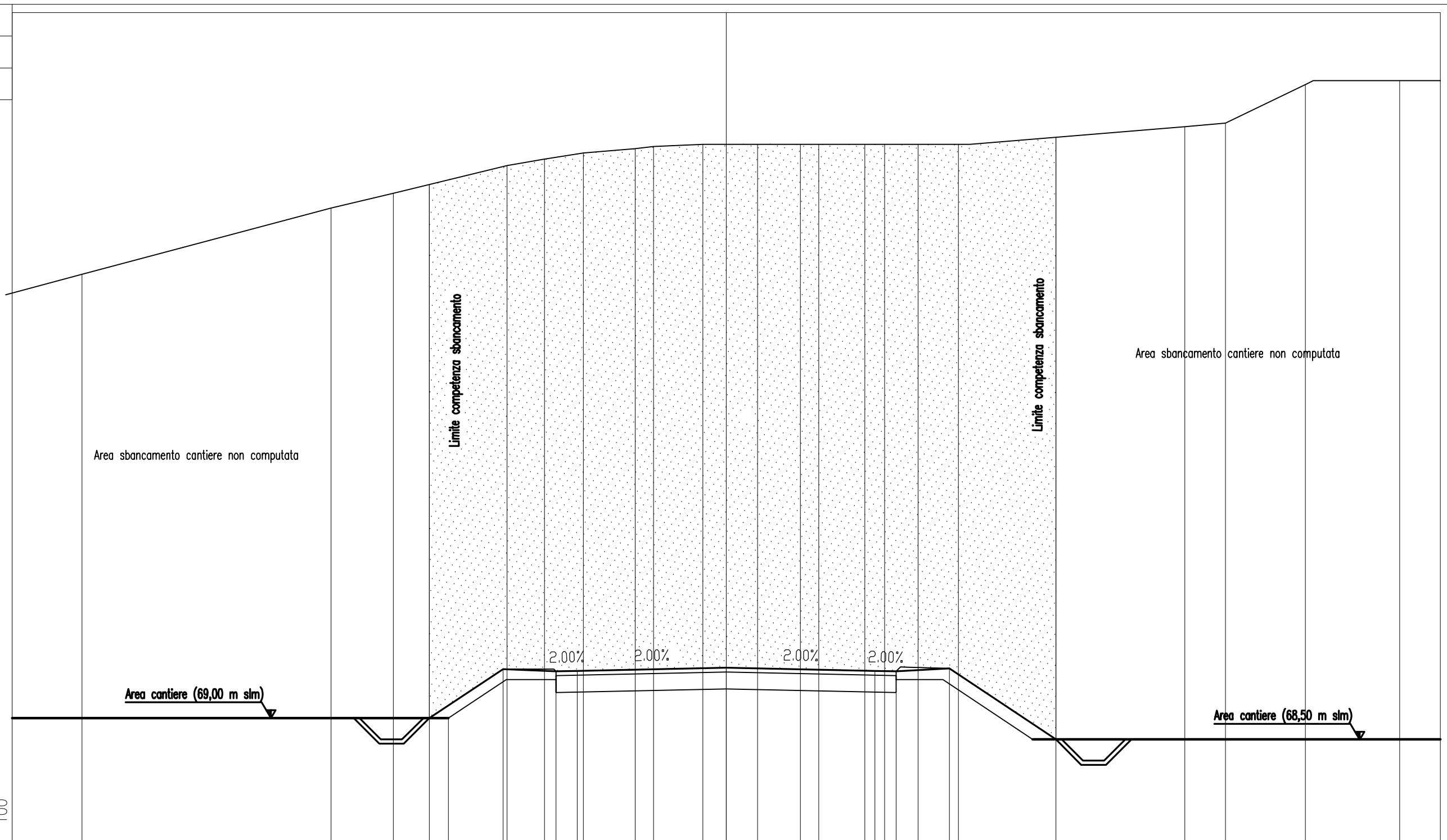
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| <p><i>Unità Funzionale</i> OPERA DI ATTRAVERSAMENTO</p> <p><i>Tipo di sistema</i> CANTIERI</p> <p><i>Raggruppamento di opere/attività</i> ITINERARI</p> <p><i>Opera - tratto d'opera - parte d'opera</i> NUOVI ITINERARI – NI.31.</p> <p><i>Titolo del documento</i> P-CN1 – QUADERNO DELLE SEZIONI PCN1.B</p> | <div style="border: 1px solid black; padding: 5px; display: inline-block;">CZ0120_F0</div> |
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| CODICE | C | G | 0 | 0 | 0 | 0 | P | W | A | D | P | C | Z | C | 2 | N | I | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | F | 0 |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| REV | DATA | DESCRIZIONE | REDATTO | VERIFICATO | APPROVATO |
|-----|------------|------------------|----------|------------|-----------|
| F0 | 20-06-2011 | EMISSIONE FINALE | PUGLIESE | FARINA | PAGANI |
| | | | | | |
| | | | | | |
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PROFILO P-CN1.B
 SEZIONE 4.PCN1.B
 PROGRESSIVA 60.00

Sbancamento
 A1 183.00 mq.
 Vegetale
 D1 1.17 mq.
 D2 0.77 mq.
 Totale: 1.94 mq.
 Fondazione
 E1 3.20 mq.
 Usura
 a1 8.00 ml.



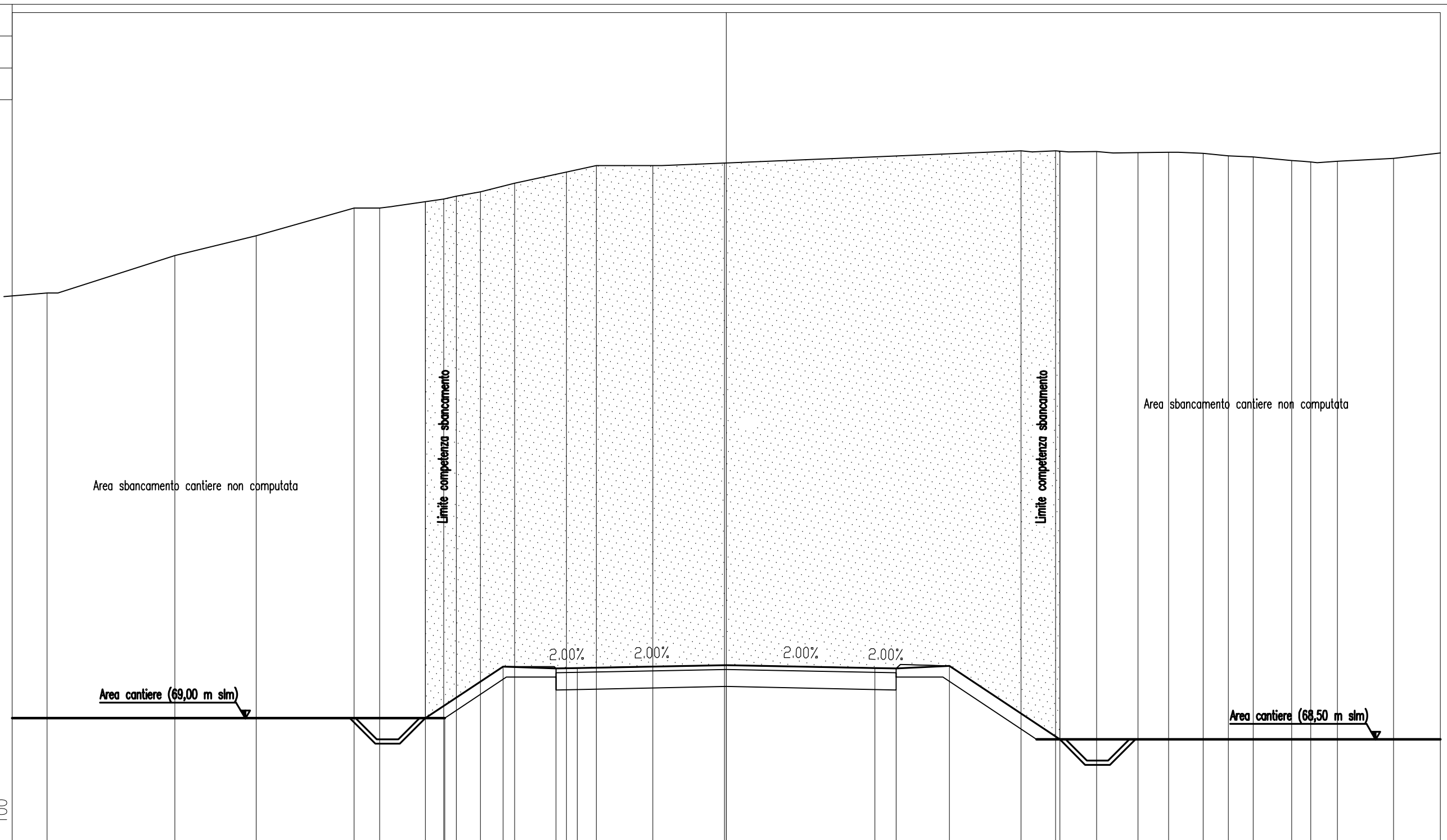
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|----------------------|--------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| PROGRESSIVE TERRENO | -15.16 | -9.29 | -7.83 | -6.53 | -5.15 | -4.28 | -3.36 | -2.14 | -1.71 | -0.55 | 0.73 | 1.75 | 2.18 | 3.26 | 3.72 | 4.52 | 5.47 | 10.79 | 11.75 | 13.63 | 15.84 | |
| PARZIALI TERRENO | 1.66 | 5.873.47 | 1.46 | 2.68 | 0.87 | 0.92 | 1.22 | 0.43 | 1.16 | 0.23 | 1.05 | 1.02 | 0.43 | 1.08 | 0.46 | 0.80 | 0.95 | 5.32 | 0.96 | 1.88 | 2.21 | 1.07 |
| QUOTE TERRENO | 79.45 | 81.00 | 81.35 | 69.00 | 82.00 | 82.15 | 82.30 | 82.40 | 82.45 | 82.50 | 82.50 | 82.50 | 82.50 | 82.50 | 82.50 | 82.50 | 82.50 | 82.92 | 83.00 | 83.91 | 84.00 | |
| PROGRESSIVE PROGETTO | | | | -6.98 | -5.25 | -4.00 | -3.50 | | | 0.00 | | | | 3.50 | 4.00 | 5.25 | | 7.75 | | | | |
| PARZIALI PROGETTO | | | | 1.73 | 1.25 | 0.50 | | 3.50 | | | 3.50 | | 0.50 | 1.25 | 2.50 | | | | | | | |
| QUOTE PROGETTO | | | | 69.00 | 70.15 | 70.10 | 70.11 | | | 70.18 | | | | 70.11 | 70.10 | 70.17 | | 68.50 | | | | |

PROFILO P-CN1.B

SEZIONE 5.PCN1.B

PROGRESSIVA 80.00

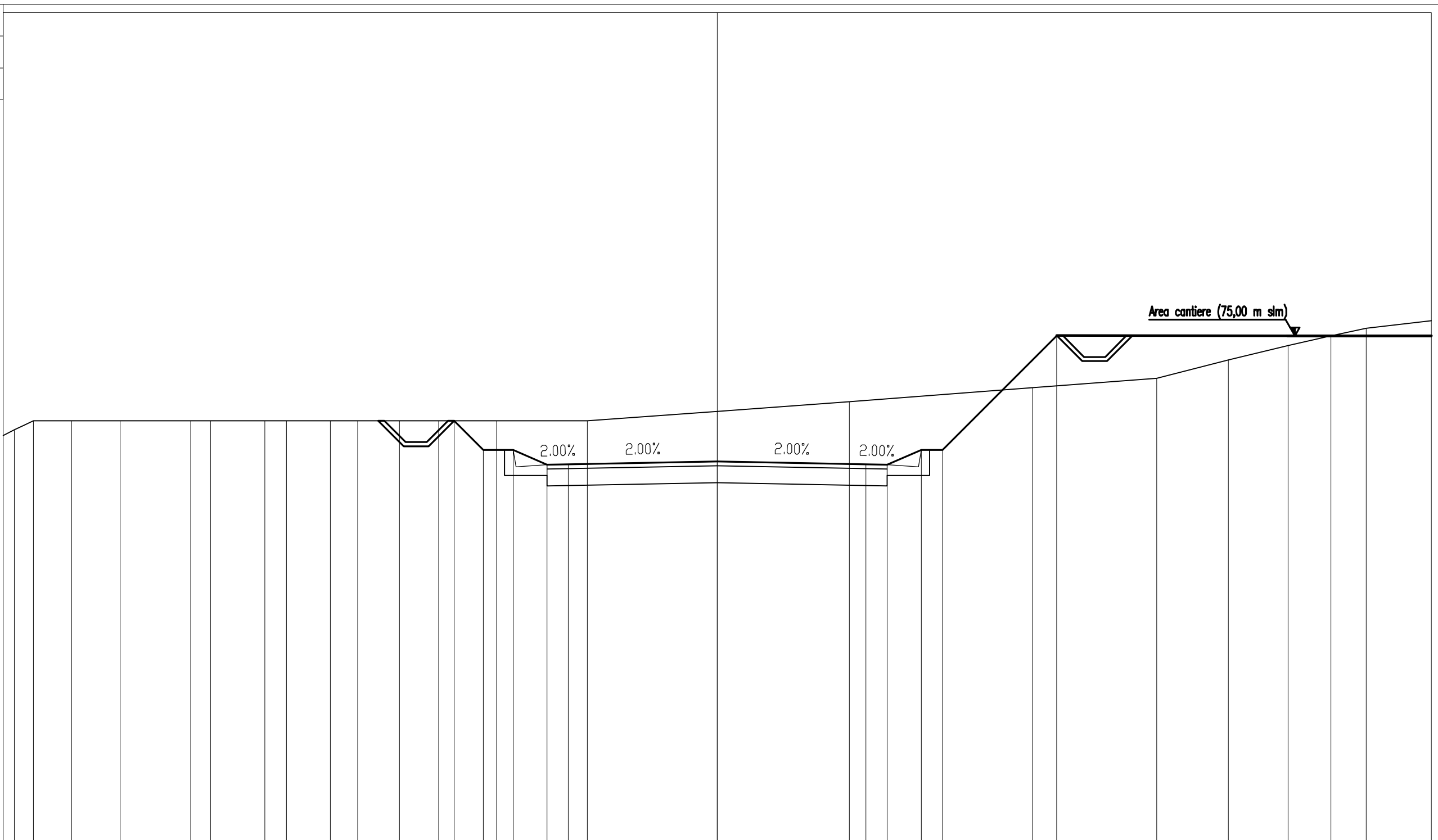
Sbancamento
 A1 179.17 mq.
 Vegetale
 D1 1.20 mq.
 D2 0.80 mq.
 Totale: 2.00 mq.
 Fondazione
 E1 3.20 mq.
 Usura
 a1 8.00 ml.



| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PROGRESSIVE TERRENO | -15.98 | -12.97 | -11.06 | -8.75 | -8.15 | -6.65 | -6.62 | -6.35 | -5.78 | -4.98 | -3.76 | -3.06 | -1.72 | -0.04 | 6.93 | 7.75 | 8.71 | 9.69 | 10.41 | 11.22 | 11.81 | 12.40 | 13.30 | 13.75 | 14.38 | 15.70 |
| PARZIALI TERRENO | 4.02 | 3.01 | 1.81 | 1.38 | 2.31 | 0.60 | 1.50 | 0.87 | 0.80 | 1.22 | 0.70 | 1.34 | 1.68 | 6.97 | 0.82 | 0.96 | 0.98 | 0.72 | 0.81 | 0.59 | 0.59 | 0.90 | 0.45 | 0.63 | 1.32 | 1.23 |
| QUOTE TERRENO | 79.00 | 79.89 | 80.35 | 81.00 | 81.00 | 81.22 | 69.00 | 81.28 | 81.39 | 81.59 | 81.85 | 82.00 | 82.00 | 82.06 | 82.35 | 82.35 | 82.33 | 82.31 | 82.32 | 82.29 | 82.23 | 82.21 | 82.12 | 82.08 | 82.10 | 82.17 |
| PROGRESSIVE PROGETTO | | | | | | -7.07 | | | -5.25 | -4.00 | -3.50 | | 0.00 | | 3.50 | 4.00 | 5.25 | | 7.85 | | | | | | | |
| PARZIALI PROGETTO | | | | | | | 1.82 | | 1.25 | 0.50 | | 3.50 | | 3.50 | 0.50 | 1.25 | 2.60 | | | | | | | | | |
| QUOTE PROGETTO | | | | | | 69.00 | | | 70.22 | 70.17 | 70.18 | | 70.25 | | 70.18 | 70.17 | 70.23 | | 68.50 | | | | | | | |

PROFILO P-CN1.B
 SEZIONE 9.PCN1.B
 PROGRESSIVA 160.00

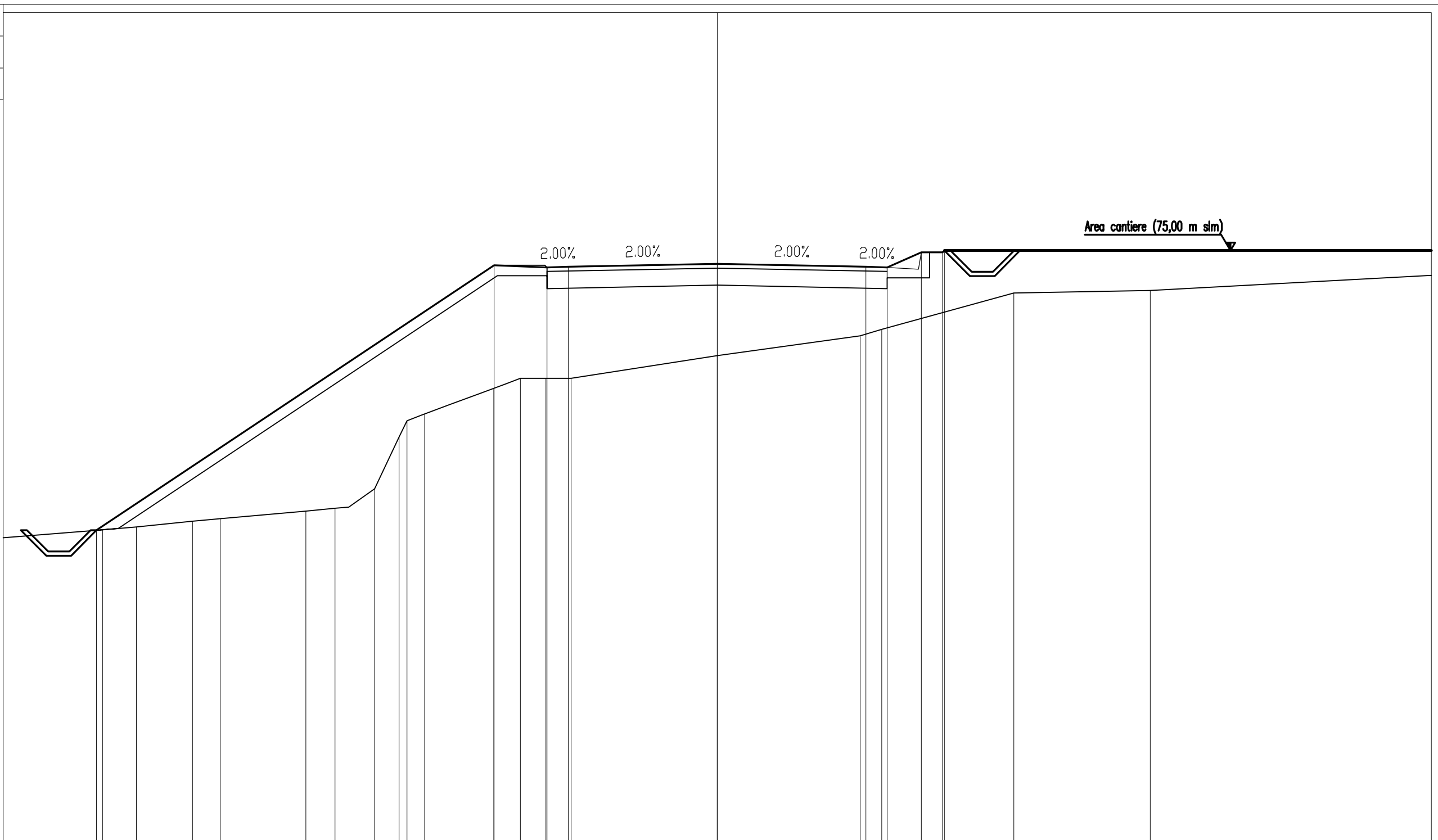
Sterro C1 18.81 mq.
 Usura a1 8.00 ml.



| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PROGRESSIVE TERRENO | -16.53 | -16.09 | -15.19 | -14.04 | -12.39 | -11.92 | -10.64 | -10.13 | -9.10 | -8.46 | -7.47 | -6.55 | -5.19 | -3.06 | 0.00 | 3.11 | 7.42 | 10.34 | 12.03 | 13.43 | 14.44 | 15.27 | | | |
| PARZIALI TERRENO | 0.84 | 0.44 | 0.90 | 1.15 | 1.65 | 0.47 | 1.28 | 0.51 | 1.03 | 0.64 | 0.99 | 0.92 | 1.36 | 2.13 | 3.06 | 3.11 | 4.31 | 2.92 | 1.69 | 1.40 | 1.01 | 0.83 | 2.73 | | |
| QUOTE TERRENO | 72.79 | 73.00 | 73.00 | 73.00 | 73.00 | 73.00 | 73.00 | 73.00 | 73.00 | 73.00 | 73.00 | 73.00 | 73.00 | 73.00 | 73.22 | 73.44 | 73.78 | 74.00 | 74.43 | 74.77 | 74.99 | 75.17 | | | |
| PROGRESSIVE PROGETTO | | | | | | | | | | | | | | | 0.00 | 3.50 | 4.00 | 4.80 | 5.30 | 7.99 | | | | | |
| PARZIALI PROGETTO | | | | | | | | | | | | | | | 0.69 | 0.70 | 0.80 | 0.50 | 3.50 | 3.50 | 0.50 | 0.80 | 0.50 | 2.69 | |
| QUOTE PROGETTO | | | | | | | | | | | | | | | 73.00 | 72.31 | 72.31 | 71.96 | 71.97 | 72.04 | 71.97 | 71.96 | 72.31 | 72.31 | 75.00 |

PROFILO P-CN1.B
 SEZIONE 11.PCN1.B
 PROGRESSIVA 200.00

Vegetale
 D1 3.01 mq.
 Usura
 a1 8.00 ml.



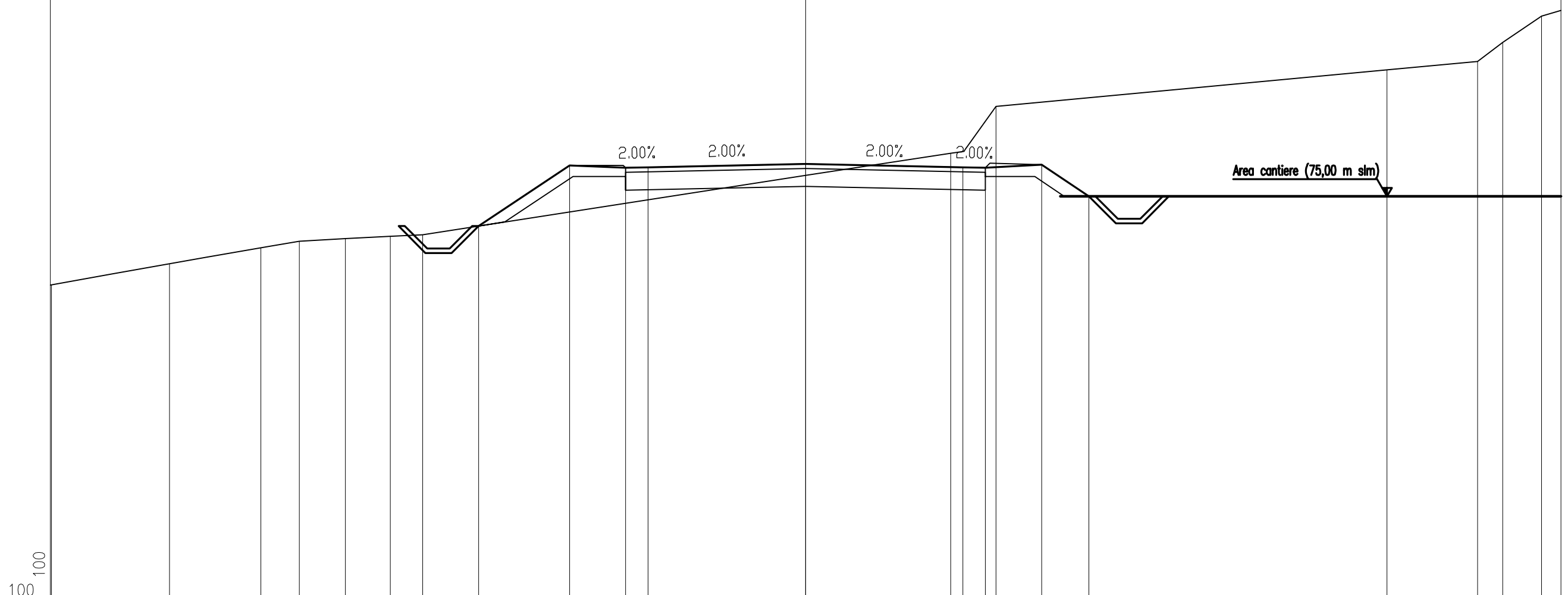
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|----------------------|------|--------|--------|--------|--------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|-------|------|-------|-------|--|-------|-------|-------|--|
| PROGRESSIVE TERRENO | | -14.46 | -13.67 | -12.34 | -11.69 | | -9.68 | -8.99 | -8.06 | -7.48 | -7.30 | -6.88 | | -5.26 | -4.63 | -4.03 | -3.43 | | 0.00 | | 3.36 | 3.87 | | 6.98 | | 10.18 | |
| PARZIALI TERRENO | 2.37 | 0.79 | 1.33 | 0.65 | 2.01 | 0.69 | 0.93 | 0.58 | 0.18 | 0.42 | 1.62 | 0.63 | 0.60 | 0.60 | 3.43 | 3.36 | 0.51 | 3.11 | 6.98 | 3.20 | 9.82 | | | | | | |
| QUOTE TERRENO | | 68.44 | 68.50 | 68.64 | 68.69 | | 68.87 | 68.94 | 69.40 | 70.62 | 71.00 | 71.16 | | 71.76 | 72.00 | 72.00 | 72.00 | | 72.53 | | 73.00 | 73.15 | | 74.00 | | 74.07 | |
| PROGRESSIVE PROGETTO | | -14.60 | | | | | | | | | | | | -5.25 | -4.00 | -3.50 | | | 0.00 | | 3.50 | 4.00 | | 4.80 | 5.30 | 5.34 | |
| PARZIALI PROGETTO | | | | | | 9.35 | | | | | | | | 1.25 | 0.50 | 3.50 | 3.50 | | 0.50 | 0.80 | 0.50 | 0.04 | | | | | |
| QUOTE PROGETTO | | 68.42 | | | | | | | | | | | | 74.66 | 74.61 | 74.62 | | | 74.69 | | 74.62 | 74.61 | | 74.96 | 74.96 | 75.00 | |

PROFILO P-CN1.B

SEZIONE 14.PCN1.B

PROGRESSIVA 260.00

Rilevato
 B1 1.71 mq.
 Vegetale
 D1 0.84 mq.
 D2 0.65 mq.
 Totale: 1.49 mq.
 Fondazione
 E1 3.20 mq.
 Usura
 a1 8.00 ml.



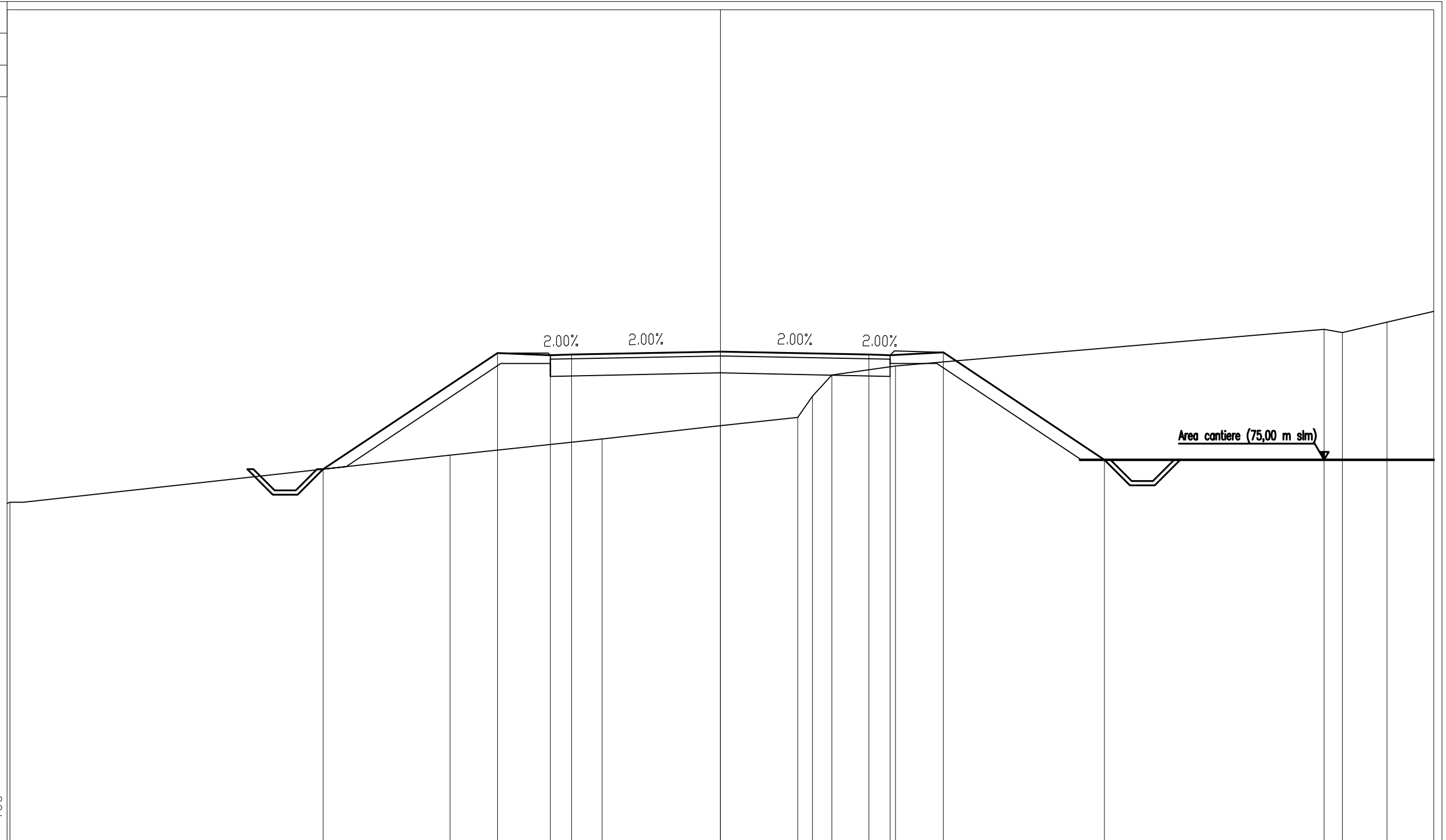
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|----------------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| PROGRESSIVE TERRENO | -16.77 | -14.14 | -12.12 | -11.26 | -10.24 | -9.24 | -8.52 | | 0.00 | | 3.23 | 4.24 | | | 12.93 | 14.95 | 15.50 | 16.37 |
| PARZIALI TERRENO | | 2.83 | 2.02 | 0.86 | 1.02 | 1.00 | 0.72 | | 8.52 | | 3.23 | 1.01 | | 8.69 | 2.02 | 0.55 | 0.87 | 1.27 |
| QUOTE TERRENO | 73.03 | 73.50 | 73.85 | 74.00 | 74.05 | 74.11 | 74.15 | | 75.46 | | 75.96 | 77.00 | | 77.81 | 78.00 | 78.42 | 79.00 | |
| PROGRESSIVE PROGETTO | | | | | | | | -7.27 | 0.00 | | 3.50 | 4.00 | 5.25 | 6.30 | | | | |
| PARZIALI PROGETTO | | | | | | | | 2.02 | | 3.50 | 0.50 | 1.25 | 1.05 | | | | | |
| QUOTE PROGETTO | | | | | | | | 74.34 | 75.72 | | 75.65 | 75.64 | 75.70 | 75.00 | | | | |

PROFILO P-CN1.B

SEZIONE 15.PCN1.B

PROGRESSIVA 280.00

Rilevato
 B1 14.11 mq.
 B2 0.02 mq.
 Totale: 14.13 mq.
 Sterro
 C1 0.16 mq.
 Vegetale
 D1 1.64 mq.
 D2 1.47 mq.
 Totale: 3.11 mq.
 Fondazione
 E1 3.20 mq.
 Usura
 a1 8.00 ml.



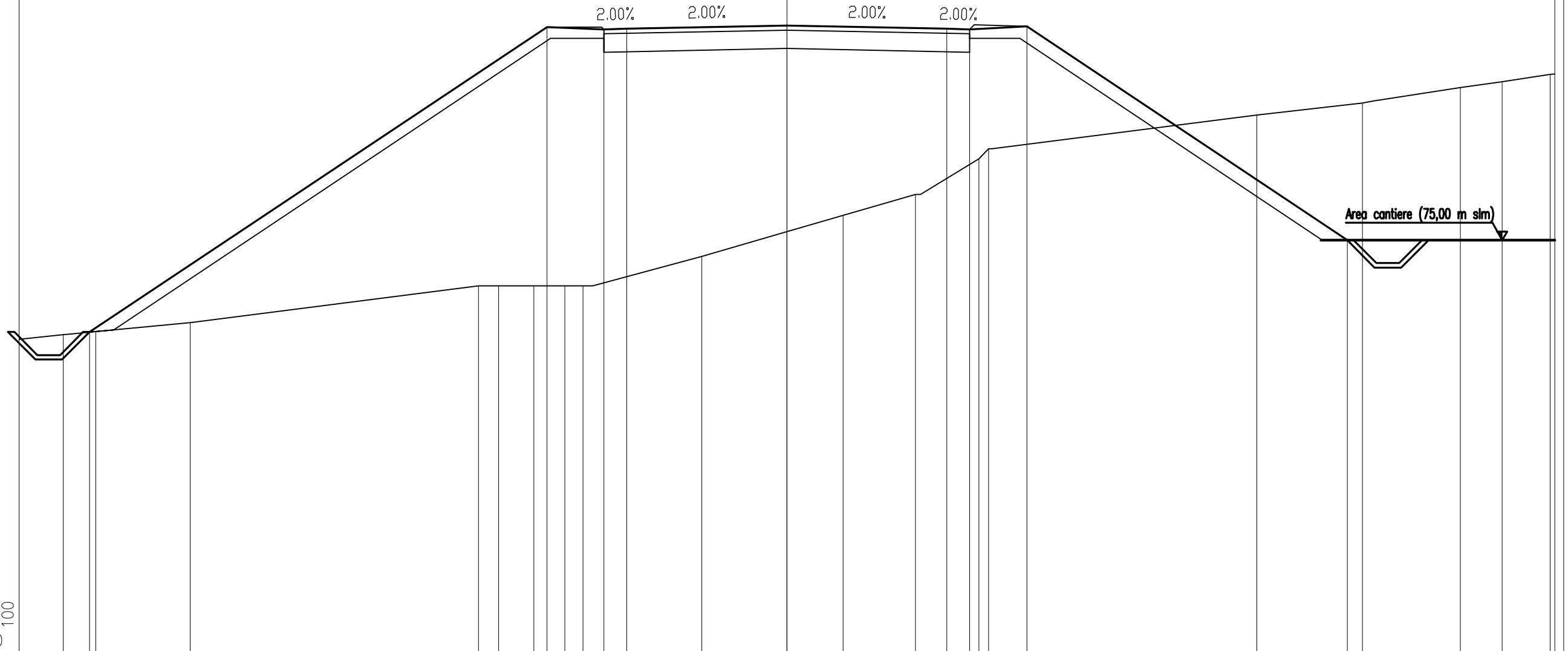
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|----------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PROGRESSIVE TERRENO | -16.73 | -6.36 | -2.79 | 0.00 | 1.82 | 2.62 | 4.13 | 14.22 | 15.70 | | |
| PARZIALI TERRENO | 0.88 | 10.37 | 3.57 | 2.79 | 1.82 | 0.35 | 1.51 | 10.09 | 0.43 | 1.05 | 3.30 |
| QUOTE TERRENO | 74.00 | 75.11 | 75.49 | 75.80 | 76.00 | 76.49 | 77.00 | 77.21 | 78.07 | 78.00 | 78.24 |
| PROGRESSIVE PROGETTO | -9.36 | -5.25 | -4.00 | -3.50 | 0.00 | 3.50 | 4.00 | 5.25 | 9.05 | | |
| PARZIALI PROGETTO | | 4.11 | 1.25 | 0.50 | 3.50 | 3.50 | 0.50 | 1.25 | 3.80 | | |
| QUOTE PROGETTO | 74.78 | 77.52 | 77.46 | 77.47 | 77.54 | 77.47 | 77.46 | 77.53 | 75.00 | | |

PROFILO P-CN1.B

SEZIONE 16.PCN1.B

PROGRESSIVA 300.00

Rilevato
 B1 69.31 mq.
 Vegetale
 D1 2.80 mq.
 D2 3.26 mq.
 Totale: 6.06 mq.
 Fondazione
 E1 3.20 mq.
 Usura
 a1 8.00 ml.



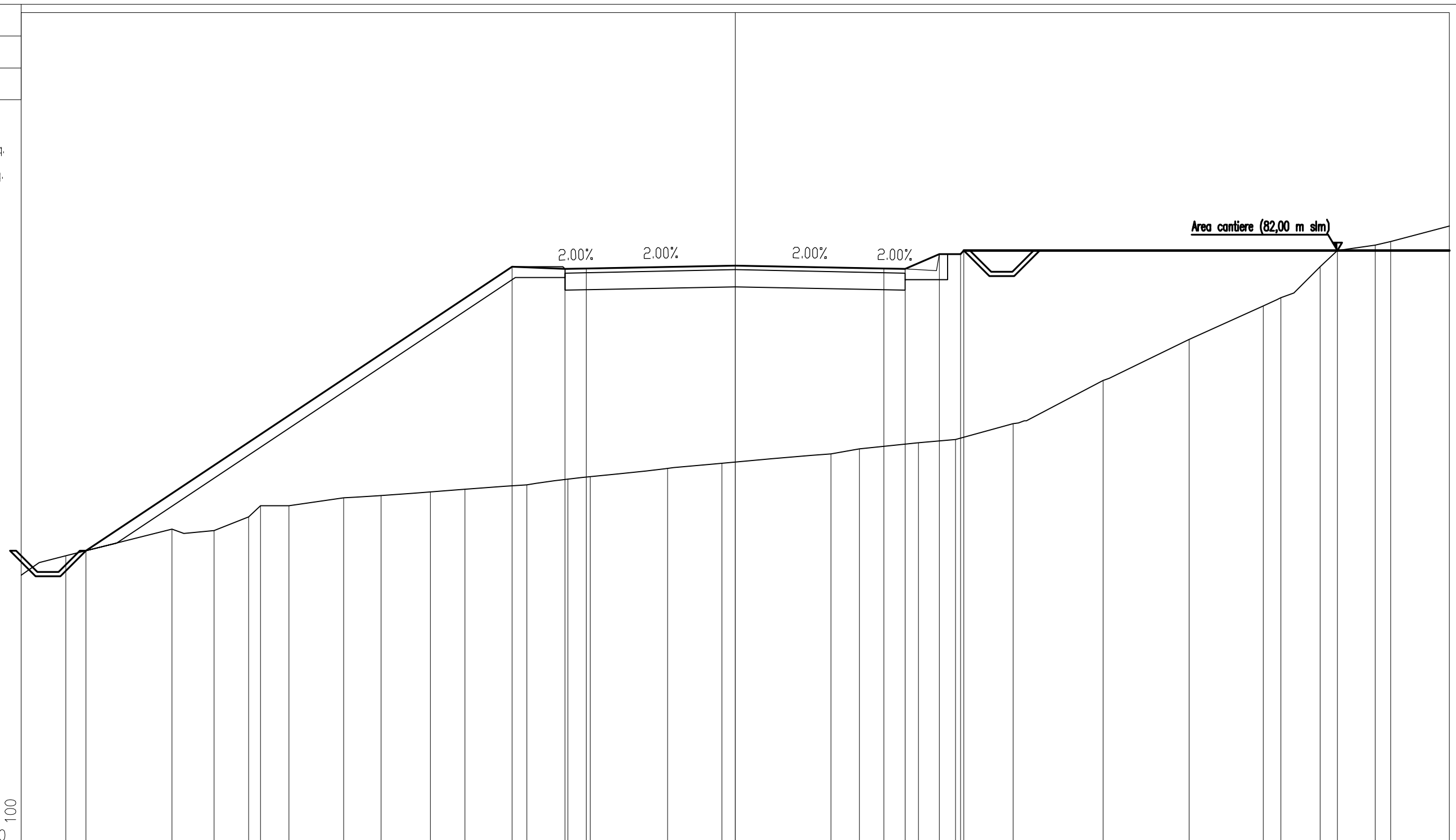
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100
 100

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|----------------------|------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|-------|-------|-------|-------|------|
| PROGRESSIVE TERRENO | | -15.84 | -15.12 | -13.05 | | -6.75 | -6.30 | -5.54 | -4.86 | -4.46 | | -1.86 | 0.00 | 1.23 | 2.81 | 4.20 | 4.41 | | 10.28 | 12.59 | 14.74 | 15.65 | 16.70 | |
| PARZIALI TERRENO | 2.27 | 0.72 | 2.07 | | 6.30 | 0.45 | 0.76 | 0.68 | 0.40 | | 2.60 | 1.86 | 1.23 | 1.58 | 1.39 | 0.21 | 4.41 | | 5.87 | 2.31 | 2.15 | 0.91 | 1.05 | 1.47 |
| QUOTE TERRENO | | 72.93 | 73.00 | 73.19 | | 74.00 | 74.00 | 74.00 | 74.00 | 74.00 | | 74.64 | 75.18 | 75.54 | 76.00 | 76.78 | 77.00 | | 77.74 | 78.00 | 78.33 | 78.46 | 78.62 | |
| PROGRESSIVE PROGETTO | | | -15.26 | | | | | -5.25 | -4.00 | -3.50 | | | 0.00 | | 3.50 | 4.00 | 5.25 | | | 12.26 | | | | |
| PARZIALI PROGETTO | | | | | 10.01 | | | 1.25 | 0.50 | | 3.50 | | | 3.50 | 0.50 | 1.25 | | | 7.01 | | | | | |
| QUOTE PROGETTO | | 72.99 | | | | | 79.66 | 79.61 | 79.62 | | 79.69 | | | 79.62 | 79.61 | 79.67 | | | 75.00 | | | | | |

PROFILO P-CN1.B
 SEZIONE 17.PCN1.B
 PROGRESSIVA 320.00

Vegetale
 D1 3.26 mq.
 Fondazione
 E1 3.20 mq.
 Usura
 a1 8.00 ml.



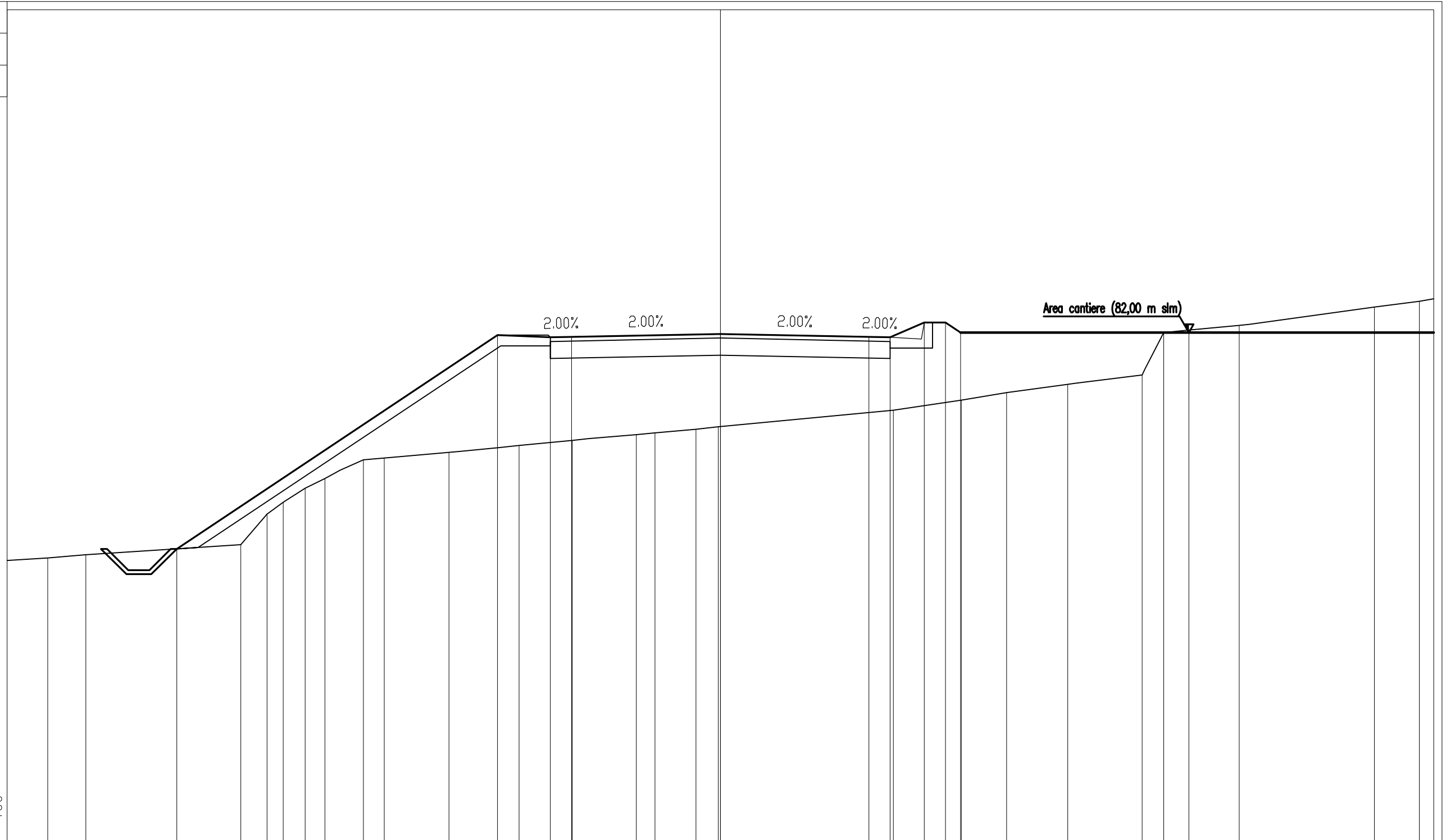
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|----------------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| PROGRESSIVE TERRENO | -15.75 | -13.25 | -12.26 | -11.45 | -11.17 | -10.49 | -9.21 | -8.33 | -7.17 | -6.36 | -4.90 | -3.94 | -3.41 | -1.59 | -0.31 | 2.26 | 2.92 | 4.31 | 5.18 | 6.54 | 8.66 | 10.68 | 12.43 | 12.84 | 13.76 | 14.16 | 15.06 | 15.42 | |
| PARZIALI TERRENO | 0.62 | 2.50 | 0.99 | 0.81 | 0.28 | 0.68 | 1.28 | 0.88 | 1.16 | 0.81 | 1.46 | 0.96 | 0.53 | 1.82 | 1.28 | 0.35 | 2.57 | 0.66 | 1.39 | 0.87 | 1.36 | 2.12 | 2.02 | 1.75 | 0.41 | 0.92 | 0.40 | 0.90 | 1.92 |
| QUOTE TERRENO | 74.82 | 75.45 | 75.41 | 75.74 | 76.00 | 76.00 | 76.19 | 76.23 | 76.32 | 76.39 | 76.49 | 76.62 | 76.68 | 76.88 | 77.00 | 77.22 | 77.34 | 77.48 | 77.55 | 77.93 | 78.94 | 79.91 | 80.70 | 80.89 | 81.62 | 82.00 | 82.13 | 82.21 | |
| PROGRESSIVE PROGETTO | -15.28 | | | | | | -5.25 | | | | -4.00 | -3.50 | | 0.00 | | | 3.50 | 4.00 | 4.80 | 5.30 | 5.38 | | | | | | | | |
| PARZIALI PROGETTO | | | | | | 10.03 | | 1.25 | | | 0.50 | | 3.50 | | | 3.50 | | 0.50 | 0.80 | 0.50 | 0.08 | | | | | | | | |
| QUOTE PROGETTO | 74.94 | | | | | | 81.62 | | | | 81.57 | 81.58 | | 81.65 | | | 81.58 | 81.57 | 81.92 | 81.92 | 82.00 | | | | | | | | |

PROFILO P-CN1.B

SEZIONE 18.PCN1.B

PROGRESSIVA 340.00

Vegetale
 D1 2.53 mq.
 Fondazione
 E1 3.20 mq.
 Usura
 a1 8.00 ml.



70

100
100

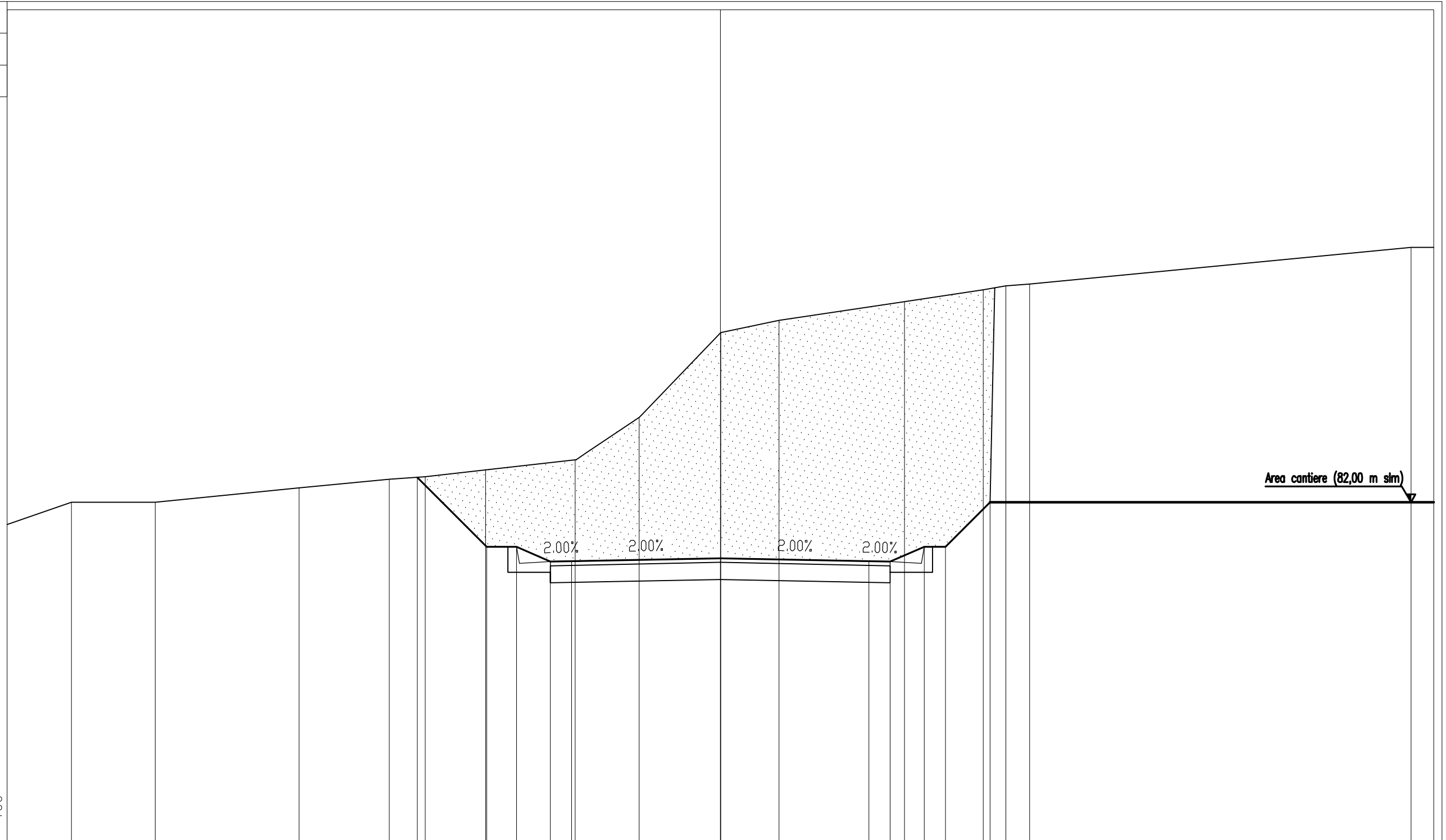
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|----------------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| PROGRESSIVE TERRENO | -15.84 | -14.94 | | -11.30 | -10.67 | -10.30 | -9.78 | -9.31 | -8.41 | -7.92 | -6.39 | -4.74 | -3.49 | -1.98 | -1.54 | -0.58 | -0.05 | | 4.08 | 5.68 | 6.74 | 8.18 | 9.94 | 10.44 | 11.03 | 12.22 | | 15.40 | 16.46 |
| PARZIALI TERRENO | 2.79 | 0.90 | 3.64 | 0.63 | 0.37 | 0.52 | 0.47 | 0.90 | 0.49 | 1.53 | 1.65 | 1.25 | 1.51 | 0.44 | 0.96 | 0.53 | | 4.13 | 1.60 | 1.06 | 1.44 | 1.76 | 0.50 | 0.59 | 1.19 | | 3.18 | 1.06 | 1.60 |
| QUOTE TERRENO | 76.69 | 76.76 | | 77.00 | 77.72 | 78.00 | 78.33 | 78.56 | 79.00 | 79.04 | 79.17 | 79.34 | 79.46 | 79.59 | 79.64 | 79.72 | 79.77 | | 80.17 | 80.40 | 80.58 | 80.78 | 81.00 | 82.00 | 82.06 | 82.17 | | 82.60 | 82.73 |
| PROGRESSIVE PROGETTO | | | -12.80 | | | | | | | | | -5.25 | -4.00 | -3.50 | | 0.00 | | | 3.50 | 4.00 | | 4.80 | 5.30 | 5.65 | | | | | |
| PARZIALI PROGETTO | | | | 7.55 | | | | | | | | 1.25 | 0.50 | | 3.50 | | | 3.50 | 0.50 | 0.80 | | 0.50 | 0.35 | | | | | | |
| QUOTE PROGETTO | | | 76.90 | | | | | | | | | 81.94 | 81.89 | 81.90 | | 81.97 | | | 81.90 | 81.89 | | 82.24 | 82.24 | 82.00 | | | | | |

PROFILO P-CN1.B

SEZIONE 21.PCN1.B

PROGRESSIVA 400.00

Sterno
C1 59.95 mq.
Fondazione
E1 3.20 mq.
Usura
a1 8.00 ml.



Area cantiere (82,00 m slm)

74

100
100

| | | | | | | | | | | | | | | | | |
|----------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| PROGRESSIVE TERRENO | -15.28 | -13.31 | -9.92 | -7.80 | -6.95 | -5.53 | -3.42 | -1.91 | 0.01 | 1.39 | 4.34 | 6.19 | 6.72 | 7.28 | 16.26 | |
| PARZIALI TERRENO | 1.53 | 1.97 | 3.39 | 2.12 | 0.85 | 1.42 | 2.11 | 1.51 | 1.92 | 1.38 | 2.95 | 1.85 | 0.53 | 0.56 | 8.98 | 1.06 |
| QUOTE TERRENO | 82.00 | 82.00 | 82.34 | 82.54 | 82.60 | 82.76 | 83.00 | 84.00 | 86.00 | 86.28 | 86.72 | 87.00 | 87.10 | 87.14 | 88.00 | |
| PROGRESSIVE PROGETTO | | | | | -7.14 | -5.50 | -4.80 | -4.00 | -3.50 | 0.00 | 3.50 | 4.00 | 4.80 | 5.30 | 6.35 | |
| PARZIALI PROGETTO | | | | | 1.64 | 0.70 | 0.80 | 0.50 | 3.50 | 3.50 | 0.50 | 0.80 | 0.50 | 1.05 | | |
| QUOTE PROGETTO | | | | | 82.59 | 80.95 | 80.95 | 80.60 | 80.61 | 80.68 | 80.61 | 80.60 | 80.95 | 80.95 | 82.00 | |