



ANAS S.p.A.

Direzione Progettazione e Realizzazione Lavori

## S.S.45 DELLA VAL DI TREBBIA

### AMMODERNAMENTO DELLA STRADA STATALE N. 45 DELLA VAL TREBBIA NEL TRATTO CERNUSCA-RIVERGARO

## PROGETTO DEFINITIVO

|  |      |   |  |
|--|------|---|--|
| PROGETTAZIONE: ANAS DPRL   |      | SUPPORTO ALLA PROGETTAZIONE:  |  |
| I PROGETTISTI:<br><i>ing. Antonio SCALAMANDRÉ</i><br><i>Ordine Ing. di Frosinone n.1063</i>    |      |   |  |
| IL GEOLOGO:<br><i>geol. Maurizio MARTINO</i><br><i>Ordine Geol. del Lazio ES n.457</i>         |      |   | <br><small>Società designata: GA&amp;M</small>               |
| IL RESPONSABILE DEL SIA:<br><i>Ing. Laura TROIANI</i><br><i>Ordine Arch. di Roma n.A-31890</i> |      | <br><small>Servizi &amp; Engineering<br/>Trasporti Ambiente Costruzioni</small> | <br><small>Via Bravatore Francesco n. 70122, Buse</small>    |
| IL COORDINATORE PER LA SICUREZZA IN FASE DI PROGETTAZIONE:<br><i>geom. E PAIELLA</i>           |      | <br><small>Via della Repubblica 22, 00197 Roma</small>                          | <br><small>E&amp;G Engineering &amp; Graphics S.r.l.</small> |
| VISTO: IL RESPONSABILE DEL PROCEDIMENTO:<br><i>ing. Anna Maria NOSARI</i>                      |      |   |  |
| PROTOCOLLO   | DATA | <b>DOTT. GEOL.<br/>DANILO GALLO</b>   | <b>ING. RENATO<br/>DEL PRETE</b>                             |

**DB308**

### D - PROGETTO STRADALE DB - INTERSEZIONI DB-3 – ROTATORIA 3 SEZIONI TRASVERSALI - RAMO 1

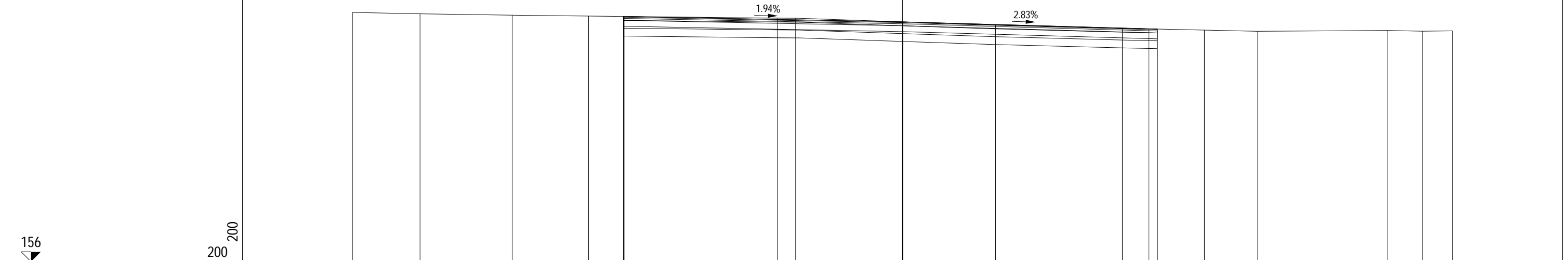
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|-----------------|-------------|-------------|------------------------------------|-----------|----------------------|
| CODICE PROGETTO |             | NOME FILE   |                                    | REVISIONE | SCALA:               |
| PROGETTO        | LIV. PROG.  | N. PROG.    | DB308 - V03PS00TRASZ02_A.dwg       |           |                      |
| <b>BO0067</b>   | <b>D</b>    | <b>1801</b> | CODICE ELAB. <b>V03PS00TRASZ02</b> | <b>A</b>  | <b>1:200</b>         |
| <b>C</b>        |             |             |                                    |           |                      |
| <b>B</b>        |             |             |                                    |           |                      |
| <b>A</b>        | EMISSIONE   |             | Aprile 2020                        |           |                      |
| REV.            | DESCRIZIONE |             | DATA                               | REDATTO   | VERIFICATO APPROVATO |

PROFILO R1 ROT 3

SEZIONE R1-ROT3-1

PROGRESSIVA 0.00

- A SCAVO m<sup>2</sup> 8.46
- F FONDAZIONE IN MISTO m<sup>2</sup> 8.15
- P SCAVO PER BONIFICA I m<sup>2</sup> 13.26
- Q ANTICAPILLARE TRINCE m<sup>2</sup> 10.86
- T RILEVATO 3 m<sup>2</sup> 2.40
- a CONGL. BIT. (BINDER m 27.18
- b TAPPETO DI USURA m 27.17
- f SCOTICO IN TRINCEA m 27.17
- k GEOTESSILE INF\_TRINC m 27.17
- l GEOTESSILE SUP\_TRINC m 27.17



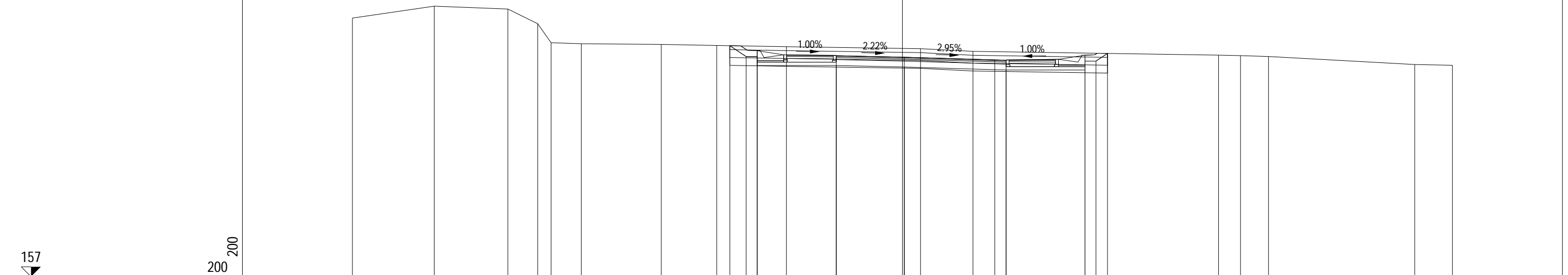
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|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| QUOTE TERRENO        | 168.70 | 168.63 | 168.56 | 168.51 | 168.49 | 168.41 | 168.40 | 168.22 | 168.06 | 167.89 | 167.80 | 167.74 | 167.78 | 167.74 | 167.76 |
| PARZIALI TERRENO     | 3.44   | 4.69   | 3.89   | 1.85   | 7.76   | 0.93   | 5.47   | 4.71   | 6.45   | 4.18   | 2.72   | 6.62   | 1.78   | 1.51   |        |
| PROGRESSIVE TERRENO  | -28.00 | -24.56 | -19.87 | -15.98 | -14.13 | -6.37  | -5.44  | 0.03   | 4.74   | 11.19  | 15.37  | 18.09  | 24.71  | 26.49  | 28.00  |
| QUOTE USURA          |        |        |        |        | 168.50 |        |        | 168.22 |        |        | 167.85 | 167.85 |        |        |        |
| PARZIALI USURA       |        |        |        |        |        | 14.21  |        |        | 12.54  |        | 0.42   |        |        |        |        |
| QUOTE RILEVATO       |        |        |        | 168.00 | 168.50 |        |        | 167.72 |        | 167.85 | 167.35 |        |        |        |        |
| PARZIALI RILEVATO    |        |        |        |        |        | 14.21  |        |        | 12.96  |        |        |        |        |        |        |
| PROGRESSIVE RILEVATO |        |        |        | -14.20 | -14.20 |        |        | 0.01   |        | 12.97  | 12.97  |        |        |        |        |

PROFILO R1 ROT 3

SEZIONE R1-ROT3-2

PROGRESSIVA 5.00

|                        |                |       |
|------------------------|----------------|-------|
| A SCAVO                | m <sup>2</sup> | 12.57 |
| F FONDAZIONE IN MISTO  | m <sup>2</sup> | 3.96  |
| I TERRENO VEGETALE     | m <sup>2</sup> | 0.67  |
| M MISTO GRANULARE COMP | m <sup>2</sup> | 0.83  |
| N MISTO GRALUNARE MARC | m <sup>2</sup> | 0.24  |
| P SCAVO PER BONIFICA I | m <sup>2</sup> | 2.86  |
| Q ANTICAPILLARE TRINCE | m <sup>2</sup> | 7.68  |
| T RILEVATO 3           | m <sup>2</sup> | 0.66  |
| a CONGL. BIT. (BINDER  | m              | 8.65  |
| b TAPPETO DI USURA     | m              | 8.65  |
| c CONGL. BIT. (BINDER  | m              | 4.73  |
| d TAPPETO DI USURA MAR | m              | 4.73  |
| f SCOTICO IN TRINCEA   | m              | 19.23 |
| k GEOTESSILE INF_TRINC | m              | 19.23 |
| l GEOTESSILE SUP_TRINC | m              | 19.23 |



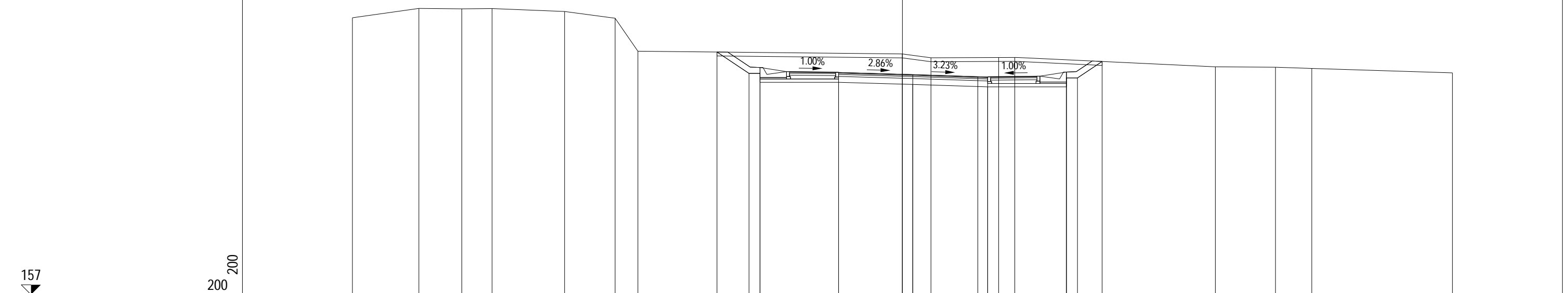
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|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| QUOTE TERRENO        | 170.15 | 170.76 | 170.61 | 169.87 | 168.90 | 168.85 | 168.81 | 168.76 | 168.70 | 168.60 | 168.46 | 168.27 | 168.24 | 168.20 | 167.79 | 167.75 |
| PARZIALI TERRENO     |        | 4.16   | 3.75   | 1.52   | 0.68   | 1.54   | 4.07   | 2.83   | 3.55   | 6.82   | 2.67   | 12.50  | 1.12   | 1.43   | 7.44   | 1.92   |
| PROGRESSIVE TERRENO  | -28.00 | -23.84 | -20.09 | -18.57 | -17.89 | -16.35 | -12.28 | -9.45  | -5.90  | 0.92   | 3.59   | 16.09  | 17.21  | 18.64  | 26.08  | 28.00  |
| QUOTE USURA          |        |        |        |        |        |        |        |        |        | 168.24 | 168.16 | 168.03 | 168.01 |        |        |        |
| PARZIALI USURA       |        |        |        |        |        |        |        |        |        | 3.46   | 4.61   | 0.58   |        |        |        |        |
| QUOTE RILEVATO       |        |        |        |        |        |        |        | 168.75 | 168.19 | 167.74 | 167.66 | 167.51 | 167.97 | 167.51 | 167.97 | 168.36 |
| PARZIALI RILEVATO    |        |        |        |        |        |        |        | 0.83   | 0.57   | 4.02   | 3.46   | 5.19   | 4.01   | 1.15   |        |        |
| PROGRESSIVE RILEVATO |        |        |        |        |        |        |        | -8.79  | -7.96  | -3.37  | 0.09   | 5.28   | 9.29   | 9.29   | 9.85   | 10.44  |

PROFILO R1 ROT 3

SEZIONE R1-ROT3-3

PROGRESSIVA 16.25

|                        |                |       |
|------------------------|----------------|-------|
| A SCAVO                | m <sup>2</sup> | 21.69 |
| F FONDAZIONE IN MISTO  | m <sup>2</sup> | 3.64  |
| I TERRENO VEGETALE     | m <sup>2</sup> | 1.21  |
| M MISTO GRANULARE COMP | m <sup>2</sup> | 0.84  |
| N MISTO GRALUNARE MARC | m <sup>2</sup> | 0.33  |
| a CONGL. BIT. (BINDER  | m              | 7.59  |
| b TAPPETO DI USURA     | m              | 7.59  |
| c CONGL. BIT. (BINDER  | m              | 4.71  |
| d TAPPETO DI USURA MAR | m              | 4.71  |
| f SCOTICO IN TRINCEA   | m              | 19.62 |



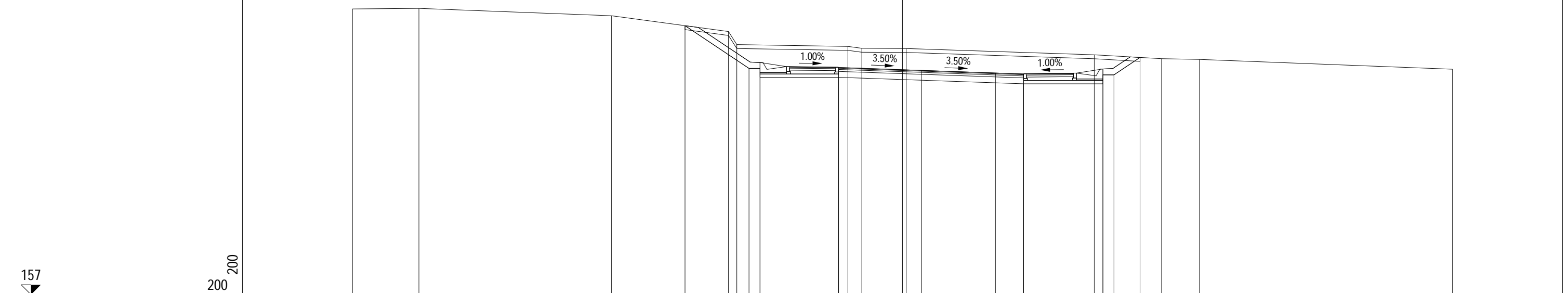
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|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| QUOTE TERRENO        | 171.07 | 171.55 | 171.52 | 171.54 | 171.39 | 171.05 | 169.37 | 169.23 | 169.04 | 169.05 | 169.05 | 168.58 | 168.56 | 168.49 | 168.27 |
| PARZIALI TERRENO     | 3.38   | 2.19   | 1.54   | 3.69   | 2.57   | 1.16   | 13.46  | 1.46   | 3.45   | 0.82   | 10.21  | 3.06   | 1.85   | 7.16   |        |
| PROGRESSIVE TERRENO  | -28.00 | -24.62 | -22.43 | -20.89 | -17.20 | -14.63 | -13.47 | -0.01  | 1.45   | 4.90   | 5.72   | 15.93  | 18.99  | 20.84  | 28.00  |
| QUOTE USURA          |        |        |        |        |        |        |        | 168.29 | 168.18 | 168.07 | 168.06 |        |        |        |        |
| PARZIALI USURA       |        |        |        |        |        |        |        | 3.78   | 3.31   | 0.50   |        |        |        |        |        |
| QUOTE RILEVATO       |        | 169.33 | 168.24 | 167.79 | 167.79 | 167.68 | 167.56 | 168.01 | 167.56 | 168.01 | 168.85 |        |        |        |        |
| PARZIALI RILEVATO    |        | 1.63   | 0.56   | 4.00   | 3.78   | 3.81   | 4.01   | 1.82   |        |        |        |        |        |        |        |
| PROGRESSIVE RILEVATO |        | -9.44  | -7.81  | -7.25  | -3.25  | 0.53   | 4.34   | 8.35   | 8.35   | 8.91   | 10.17  |        |        |        |        |

PROFILO R1 ROT 3

SEZIONE R1-ROT3-4

PROGRESSIVA 27.50

|                        |                |       |
|------------------------|----------------|-------|
| A SCAVO                | m <sup>2</sup> | 27.14 |
| F FONDAZIONE IN MISTO  | m <sup>2</sup> | 4.21  |
| I TERRENO VEGETALE     | m <sup>2</sup> | 1.79  |
| M MISTO GRANULARE COMP | m <sup>2</sup> | 0.85  |
| N MISTO GRALUNARE MARC | m <sup>2</sup> | 0.35  |
| a CONGL. BIT. (BINDER  | m              | 9.42  |
| b TAPPETO DI USURA     | m              | 9.42  |
| c CONGL. BIT. (BINDER  | m              | 4.74  |
| d TAPPETO DI USURA MAR | m              | 4.74  |
| f SCOTICO IN TRINCEA   | m              | 23.57 |



|                      |        |        |      |        |        |        |        |        |        |        |        |        |        |        |
|----------------------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| QUOTE TERRENO        | 171.52 | 171.55 |      | 171.17 | 170.37 | 169.71 | 169.61 | 169.52 | 169.51 | 169.19 | 168.99 | 168.95 | 168.46 |        |
| PARZIALI TERRENO     |        | 3.39   | 9.80 | 5.95   | 0.43   | 5.65   | 0.71   | 2.26   |        | 9.58   | 3.42   | 1.93   | 12.88  |        |
| PROGRESSIVE TERRENO  | -28.00 | -24.61 |      | -14.81 | -8.86  | -8.43  | -2.78  | -2.07  | 0.19   |        | 9.77   | 13.19  | 15.12  | 28.00  |
| QUOTE USURA          |        |        |      |        |        |        | 168.54 |        | 168.40 |        | 168.26 | 168.21 |        |        |
| PARZIALI USURA       |        |        |      |        |        |        |        | 4.21   |        | 3.77   |        | 1.44   |        |        |
| QUOTE RILEVATO       |        |        |      | 170.67 | 168.50 | 168.04 | 168.04 | 167.90 |        | 167.71 | 168.17 | 167.71 | 168.17 | 169.05 |
| PARZIALI RILEVATO    |        |        |      | 3.26   | 0.56   | 4.00   | 4.21   | 5.21   |        | 4.04   | 1.89   |        |        |        |
| PROGRESSIVE RILEVATO |        |        |      | -11.07 | -7.81  | -7.25  | -3.25  | 0.96   |        | 6.17   | 10.21  | 10.21  | 10.77  | 12.10  |

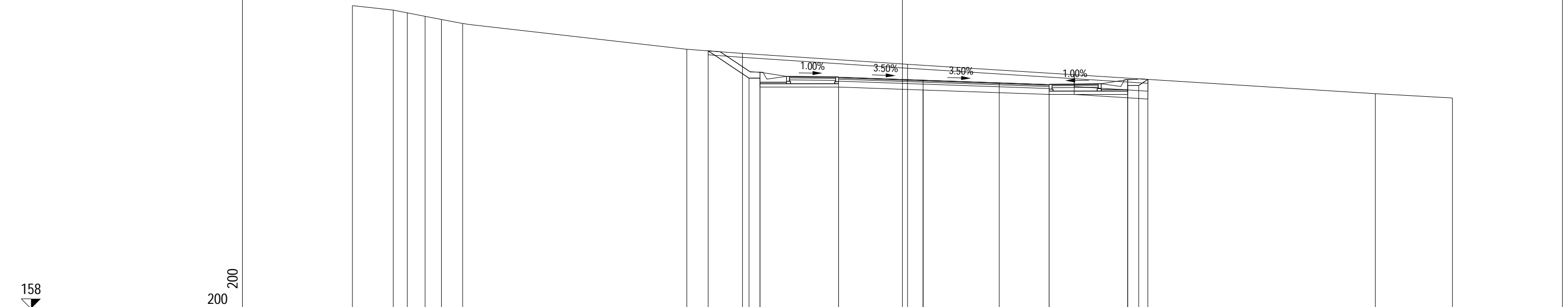


PROFILO R1 ROT 3

SEZIONE R1-ROT3-6

PROGRESSIVA 52.94

|                        |                |       |
|------------------------|----------------|-------|
| A SCAVO                | m <sup>2</sup> | 20.91 |
| F FONDAZIONE IN MISTO  | m <sup>2</sup> | 4.58  |
| I TERRENO VEGETALE     | m <sup>2</sup> | 1.08  |
| M MISTO GRANULARE COMP | m <sup>2</sup> | 0.83  |
| N MISTO GRALUNARE MARC | m <sup>2</sup> | 0.47  |
| P SCAVO PER BONIFICA I | m <sup>2</sup> | 0.98  |
| Q ANTICAPILLARE TRINCE | m <sup>2</sup> | 1.50  |
| T RILEVATO 3           | m <sup>2</sup> | 0.33  |
| a CONGL. BIT. (BINDER  | m              | 10.72 |
| b TAPPETO DI USURA     | m              | 10.72 |
| c CONGL. BIT. (BINDER  | m              | 4.70  |
| d TAPPETO DI USURA MAR | m              | 4.70  |
| f SCOTICO IN TRINCEA   | m              | 22.42 |
| k GEOTESSILE INF_TRINC | m              | 3.75  |
| l GEOTESSILE SUP_TRINC | m              | 3.75  |



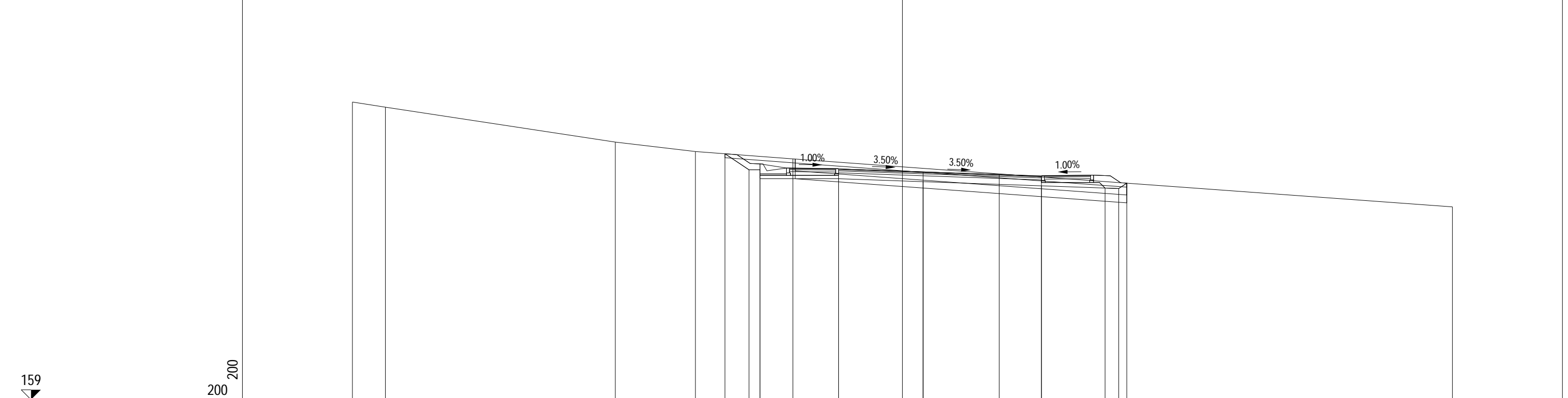
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|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| QUOTE TERRENO        | 173.40 | 173.17 | 173.03 | 172.86 | 172.70 | 172.49 | 171.18 | 170.97 | 170.42 | 168.93 | 168.71 |        |        |        |        |       |       |
| PARZIALI TERRENO     | 2.08   | 0.71   | 0.91   | 0.83   | 1.08   | 11.41  | 2.84   | 8.40   | 23.81  | 3.93   |        |        |        |        |        |       |       |
| PROGRESSIVE TERRENO  | -28.00 | -25.92 | -25.21 | -24.30 | -23.47 | -22.39 | -10.98 | -8.14  | 0.26   | 24.07  | 28.00  |        |        |        |        |       |       |
| QUOTE USURA          |        |        |        |        |        |        |        | 169.76 | 169.61 | 169.48 | 169.39 |        |        |        |        |       |       |
| PARZIALI USURA       |        |        |        |        |        |        |        | 4.30   | 3.88   | 2.54   |        |        |        |        |        |       |       |
| QUOTE RILEVATO       |        |        |        |        |        |        | 171.10 | 169.72 | 169.26 | 169.11 | 168.89 | 169.34 | 168.89 | 169.34 | 169.65 |       |       |
| PARZIALI RILEVATO    |        |        |        |        |        |        | 2.08   | 0.56   | 4.00   | 4.30   | 6.42   | 4.00   | 1.02   |        |        |       |       |
| PROGRESSIVE RILEVATO |        |        |        |        |        |        | -9.89  | -7.81  | -7.25  | -7.25  | -3.25  | 1.05   | 7.47   | 11.47  | 11.47  | 12.03 | 12.49 |

PROFILO R1 ROT 3

SEZIONE R1-ROT3-7

PROGRESSIVA 65.65

|                        |                |       |
|------------------------|----------------|-------|
| A SCAVO                | m <sup>2</sup> | 8.93  |
| F FONDAZIONE IN MISTO  | m <sup>2</sup> | 4.49  |
| I TERRENO VEGETALE     | m <sup>2</sup> | 1.22  |
| M MISTO GRANULARE COMP | m <sup>2</sup> | 0.81  |
| N MISTO GRALUNARE MAR  | m <sup>2</sup> | 0.47  |
| P SCAVO PER BONIFICA I | m <sup>2</sup> | 6.67  |
| Q ANTICAPILLARE TRINCE | m <sup>2</sup> | 6.75  |
| T RILEVATO 3           | m <sup>2</sup> | 1.35  |
| a CONGL. BIT. (BINDER  | m              | 10.33 |
| b TAPPETO DI USURA     | m              | 10.33 |
| c CONGL. BIT. (BINDER  | m              | 4.70  |
| d TAPPETO DI USURA MAR | m              | 4.70  |
| f SCOTICO IN TRINCEA   | m              | 20.51 |
| k GEOTESSILE INF_TRINC | m              | 16.92 |
| l GEOTESSILE SUP_TRINC | m              | 16.92 |



|                      |        |        |       |        |        |        |        |        |        |        |        |        |       |       |
|----------------------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| QUOTE TERRENO        | 174.13 | 173.87 |       | 172.09 | 171.61 | 171.24 |        |        |        | 166.80 |        |        |       |       |
| PARZIALI TERRENO     | 1.68   |        | 11.70 | 4.08   | 4.96   |        |        |        | 33.58  |        |        |        |       |       |
| PROGRESSIVE TERRENO  | -28.00 | -26.32 |       | -14.62 | -10.54 | -5.58  |        |        |        | 28.00  |        |        |       |       |
| QUOTE USURA          |        |        |       |        |        | 170.73 | 170.58 | 170.44 | 170.37 |        |        |        |       |       |
| PARZIALI USURA       |        |        |       |        |        | 4.30   | 3.88   | 2.15   |        |        |        |        |       |       |
| QUOTE RILEVATO       |        |        |       |        | 171.50 | 170.68 | 170.23 | 170.08 | 169.87 | 169.75 | 169.73 | 170.00 |       |       |
| PARZIALI RILEVATO    |        |        |       |        | 1.22   | 0.56   | 4.00   | 4.30   | 6.03   | 3.24   | 0.69   | 0.41   |       |       |
| PROGRESSIVE RILEVATO |        |        |       |        | -9.03  | -7.81  | -7.25  | -7.25  | -3.25  | 1.05   | 7.08   | 10.32  | 11.01 | 11.42 |

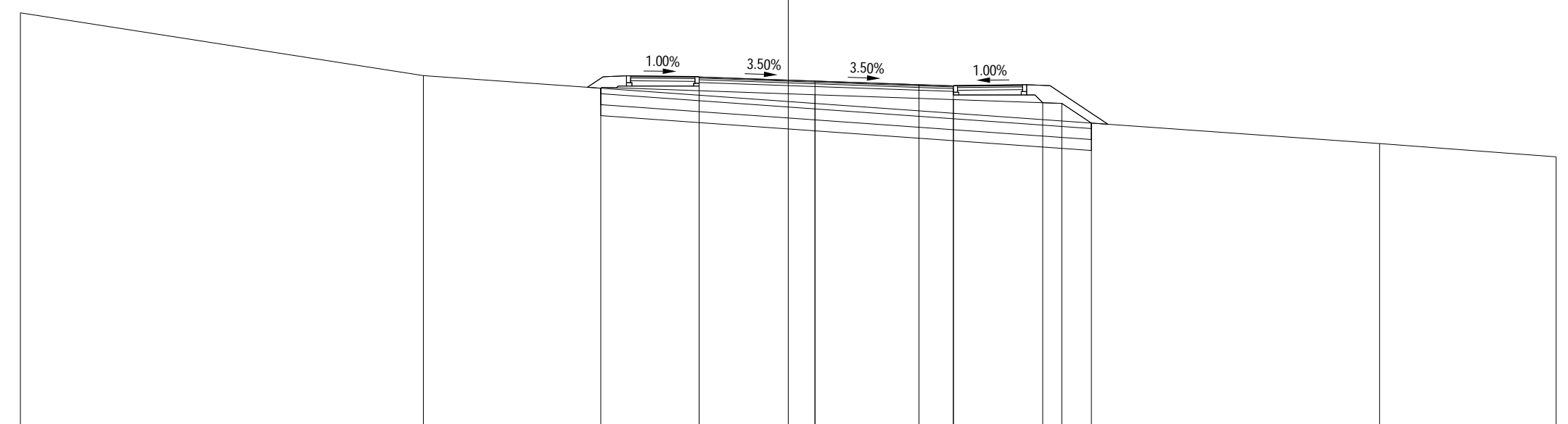


PROFILO R1 ROT 3

SEZIONE R1-ROT3-8

PROGRESSIVA 78.37

|                        |                |       |
|------------------------|----------------|-------|
| B SCAVO PER BONIFICA   | m <sup>2</sup> | 14.31 |
| C RILEVATO 1           | m <sup>2</sup> | 6.04  |
| D RILEVATO 2           | m <sup>2</sup> | 7.15  |
| E MATERIALE ANTICAPILL | m <sup>2</sup> | 7.16  |
| F FONDAZIONE IN MISTO  | m <sup>2</sup> | 3.81  |
| I TERRENO VEGETALE     | m <sup>2</sup> | 1.58  |
| M MISTO GRANULARE COM  | m <sup>2</sup> | 0.84  |
| N MISTO GRALUNARE MAR  | m <sup>2</sup> | 0.35  |
| a CONGL. BIT. (BINDER  | m              | 9.27  |
| b TAPPETO DI USURA     | m              | 9.27  |
| c CONGL. BIT. (BINDER  | m              | 4.72  |
| d TAPPETO DI USURA MAR | m              | 4.72  |
| e PREPARAZIONE PIANO D | m              | 17.94 |
| h GEOTESSILE INF.      | m              | 17.94 |
| i GEOTESSILE SUP.      | m              | 17.94 |



159

200  
200

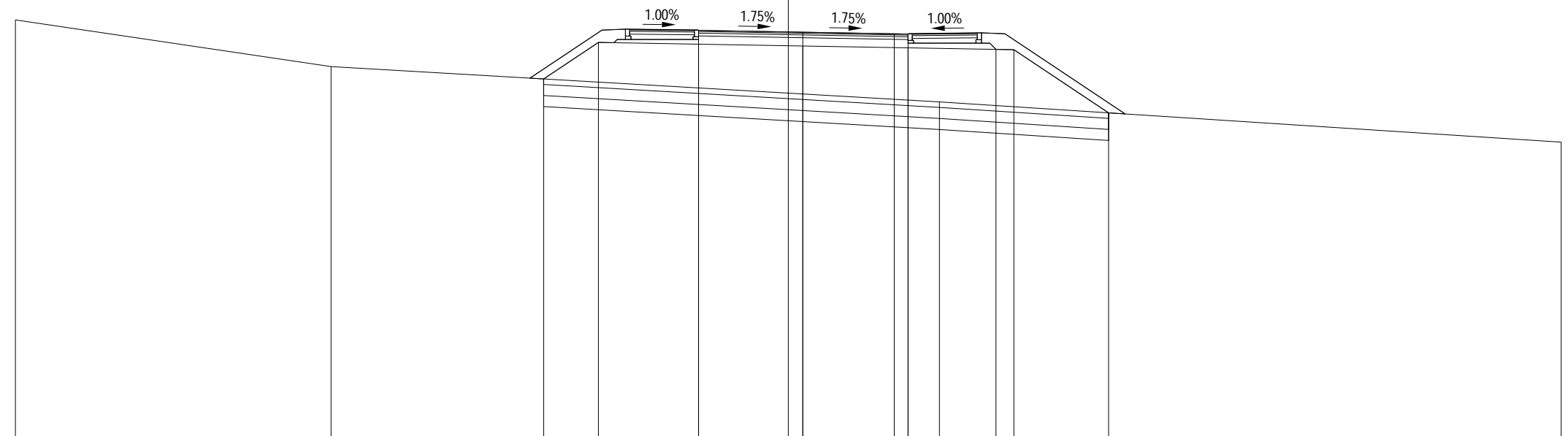
|                      |        |        |        |        |
|----------------------|--------|--------|--------|--------|
| QUOTE TERRENO        | 174.09 | 171.80 | 169.32 | 166.83 |
| PARZIALI TERRENO     | 14.69  | 34.87  | 6.44   |        |
| PROGRESSIVE TERRENO  | -28.00 | -13.31 | 21.56  | 28.00  |
| QUOTE USURA          |        | 171.74 | 171.60 | 171.46 |
| PARZIALI USURA       |        | 4.22   | 3.80   | 1.25   |
| QUOTE RILEVATO       |        | 171.34 | 171.24 | 171.10 |
| PARZIALI RILEVATO    |        | 3.59   | 4.22   | 5.05   |
| PROGRESSIVE RILEVATO |        | -6.84  | -3.25  | 0.97   |
|                      |        | 171.34 | 171.24 | 171.10 |
|                      |        | 170.92 | 170.81 | 170.78 |
|                      |        | 170.78 | 170.78 | 170.06 |
|                      |        | 9.28   | 9.98   | 11.05  |

PROFILO R1 ROT 3

SEZIONE R1-ROT3-9

PROGRESSIVA 91.58

|                        |                |       |
|------------------------|----------------|-------|
| B SCAVO PER BONIFICA   | m <sup>2</sup> | 16.37 |
| C RILEVATO 1           | m <sup>2</sup> | 31.19 |
| D RILEVATO 2           | m <sup>2</sup> | 8.19  |
| E MATERIALE ANTICAPILL | m <sup>2</sup> | 8.18  |
| F FONDAZIONE IN MISTO  | m <sup>2</sup> | 3.33  |
| I TERRENO VEGETALE     | m <sup>2</sup> | 3.11  |
| M MISTO GRANULARE COM  | m <sup>2</sup> | 0.82  |
| N MISTO GRALUNARE MAR  | m <sup>2</sup> | 0.45  |
| a CONGL. BIT. (BINDER  | m              | 7.59  |
| b TAPPETO DI USURA     | m              | 7.59  |
| c CONGL. BIT. (BINDER  | m              | 4.71  |
| d TAPPETO DI USURA MAR | m              | 4.71  |
| e PREPARAZIONE PIANO D | m              | 20.49 |
| h GEOTESSILE INF.      | m              | 20.49 |
| i GEOTESSILE SUP.      | m              | 20.49 |



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|                      |        |        |        |        |
|----------------------|--------|--------|--------|--------|
| QUOTE TERRENO        | 173.10 | 171.41 | 170.13 | 168.67 |
| PARZIALI TERRENO     | 11.44  | 22.04  | 22.52  |        |
| PROGRESSIVE TERRENO  | -28.00 | -16.56 | 5.48   | 28.00  |
| QUOTE USURA          |        |        | 172.72 | 172.65 |
| PARZIALI USURA       |        |        | 3.78   | 3.31   |
| QUOTE RILEVATO       |        |        | 172.22 | 172.15 |
| PARZIALI RILEVATO    |        |        | 3.78   | 3.81   |
| PROGRESSIVE RILEVATO |        |        | 4.34   | 7.52   |





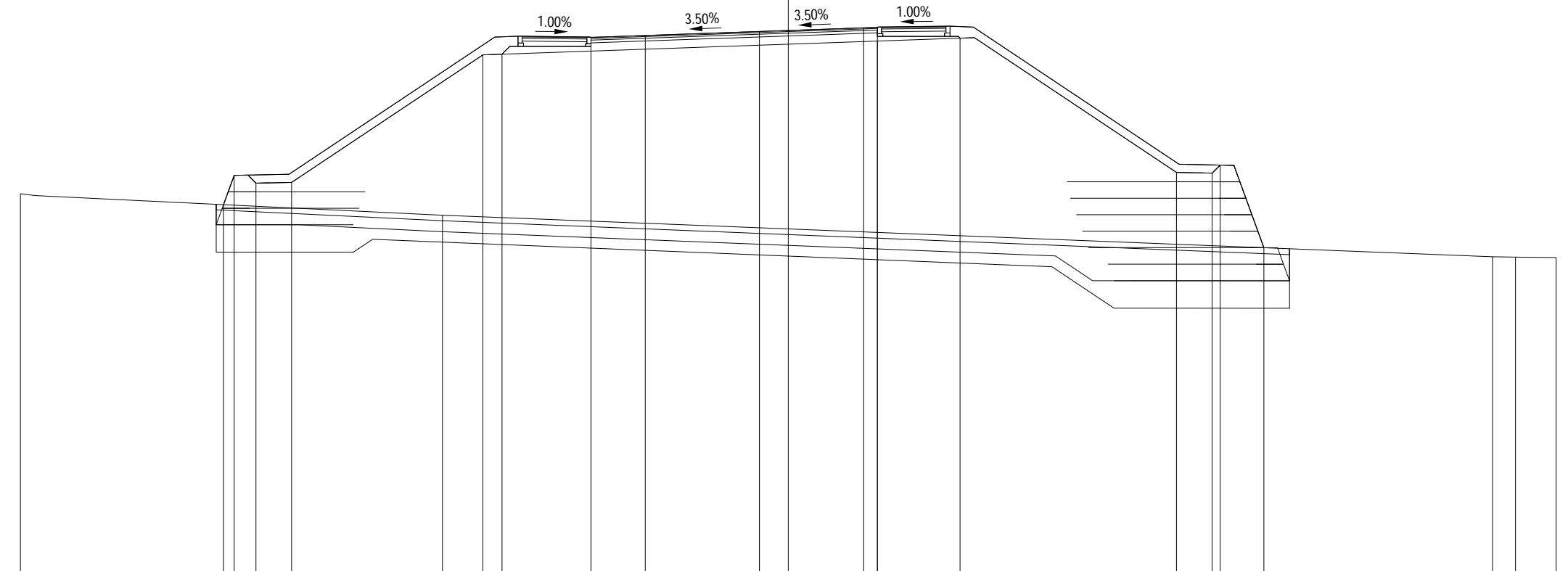


PROFILO R1 ROT 3

SEZIONE R1-ROT3-13

PROGRESSIVA 155.29

|                        |                |        |
|------------------------|----------------|--------|
| B SCAVO PER BONIFICA   | m <sup>2</sup> | 44.00  |
| C RILEVATO 1           | m <sup>2</sup> | 187.51 |
| D RILEVATO 2           | m <sup>2</sup> | 21.19  |
| E MATERIALE ANTICAPILL | m <sup>2</sup> | 22.81  |
| F FONDAZIONE IN MISTO  | m <sup>2</sup> | 4.09   |
| I TERRENO VEGETALE     | m <sup>2</sup> | 7.06   |
| M MISTO GRANULARE COM  | m <sup>2</sup> | 0.83   |
| N MISTO GRALUNARE MAR  | m <sup>2</sup> | 0.35   |
| a CONGL. BIT. (BINDER  | m              | 10.44  |
| b TAPPETO DI USURA     | m              | 10.44  |
| c CONGL. BIT. (BINDER  | m              | 4.71   |
| d TAPPETO DI USURA MAR | m              | 4.71   |
| e PREPARAZIONE PIANO D | m              | 39.17  |
| h GEOTESSILE INF.      | m              | 39.76  |
| i GEOTESSILE SUP.      | m              | 39.45  |



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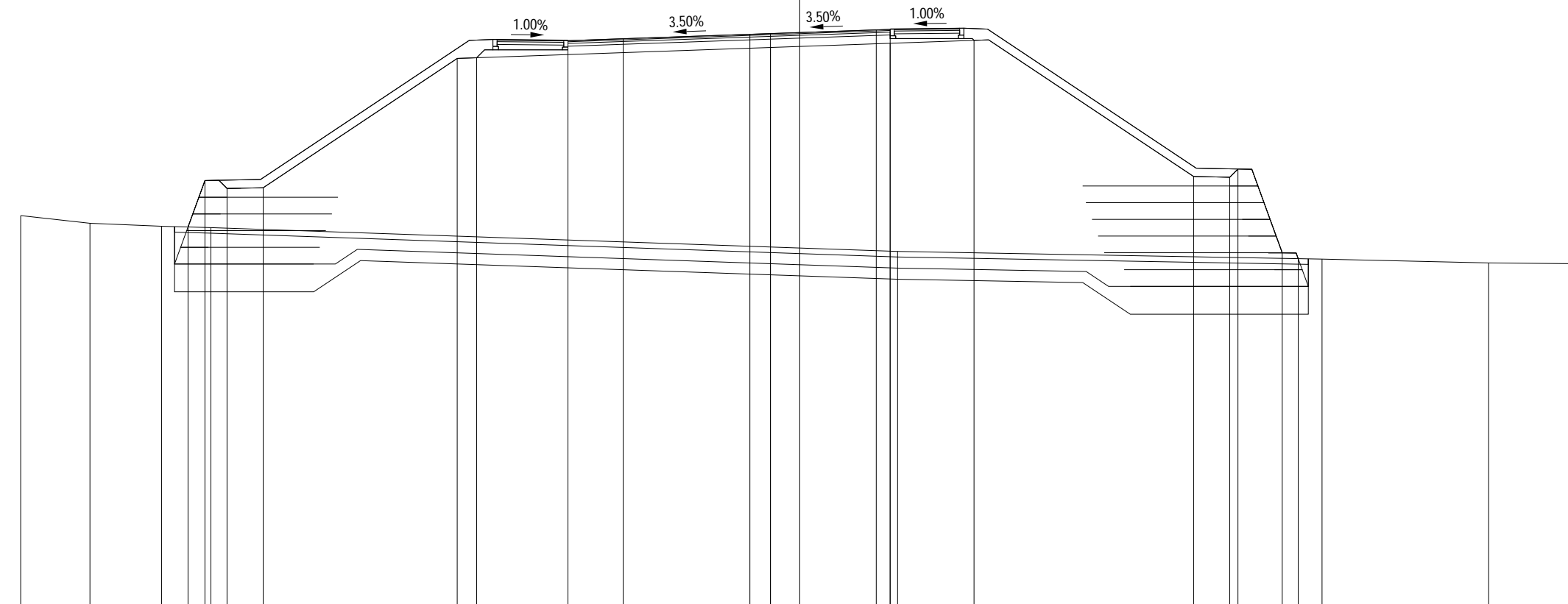
|                      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| QUOTE TERRENO        | 171.84 | 171.05 | 169.54 | 169.53 | 169.51 |        |        |        |        |        |        |        |        |        |
| PARZIALI TERRENO     | 15.39  | 38.29  | 0.84   | 1.48   |        |        |        |        |        |        |        |        |        |        |
| PROGRESSIVE TERRENO  | -28.00 | -12.61 | 25.68  | 26.52  | 28.00  |        |        |        |        |        |        |        |        |        |
| QUOTE USURA          |        | 177.54 | 177.60 | 177.75 | 177.88 | 177.90 |        |        |        |        |        |        |        |        |
| PARZIALI USURA       |        | 1.98   | 4.16   | 3.80   | 0.50   |        |        |        |        |        |        |        |        |        |
| QUOTE RILEVATO       | 171.44 | 172.51 | 172.22 | 172.25 | 176.90 | 176.92 | 177.04 | 177.25 | 177.40 | 177.51 | 172.61 | 172.59 | 172.88 | 169.87 |
| PARZIALI RILEVATO    | 0.39   | 0.79   | 1.30   | 6.98   | 0.69   | 3.25   | 6.14   | 4.30   | 3.01   | 7.90   | 1.30   | 0.29   | 1.59   |        |
| PROGRESSIVE RILEVATO | -20.59 | -20.20 | -19.41 | -18.11 | -11.13 | -10.44 | -7.19  | -1.05  | 3.25   | 6.26   | 14.16  | 15.46  | 15.75  | 17.34  |

PROFILO R1 ROT 3

SEZIONE R1-ROT3-14

PROGRESSIVA 165.79

- B SCAVO PER BONIFICA m<sup>2</sup> 47.48
- C RILEVATO 1 m<sup>2</sup> 212.98
- D RILEVATO 2 m<sup>2</sup> 23.69
- E MATERIALE ANTICAPILL m<sup>2</sup> 23.79
- F FONDAZIONE IN MISTO m<sup>2</sup> 4.41
- I TERRENO VEGETALE m<sup>2</sup> 7.07
- M MISTO GRANULARE COMP m<sup>2</sup> 0.83
- N MISTO GRALUNARE MARC m<sup>2</sup> 0.35
- a CONGL. BIT. (BINDER m 11.58
- b TAPPETO DI USURA m 11.58
- c CONGL. BIT. (BINDER m 4.75
- d TAPPETO DI USURA MAR m 4.75
- e PREPARAZIONE PIANO D m 40.76
- h GEOTESSILE INF. m 41.45
- i GEOTESSILE SUP. m 41.09



158

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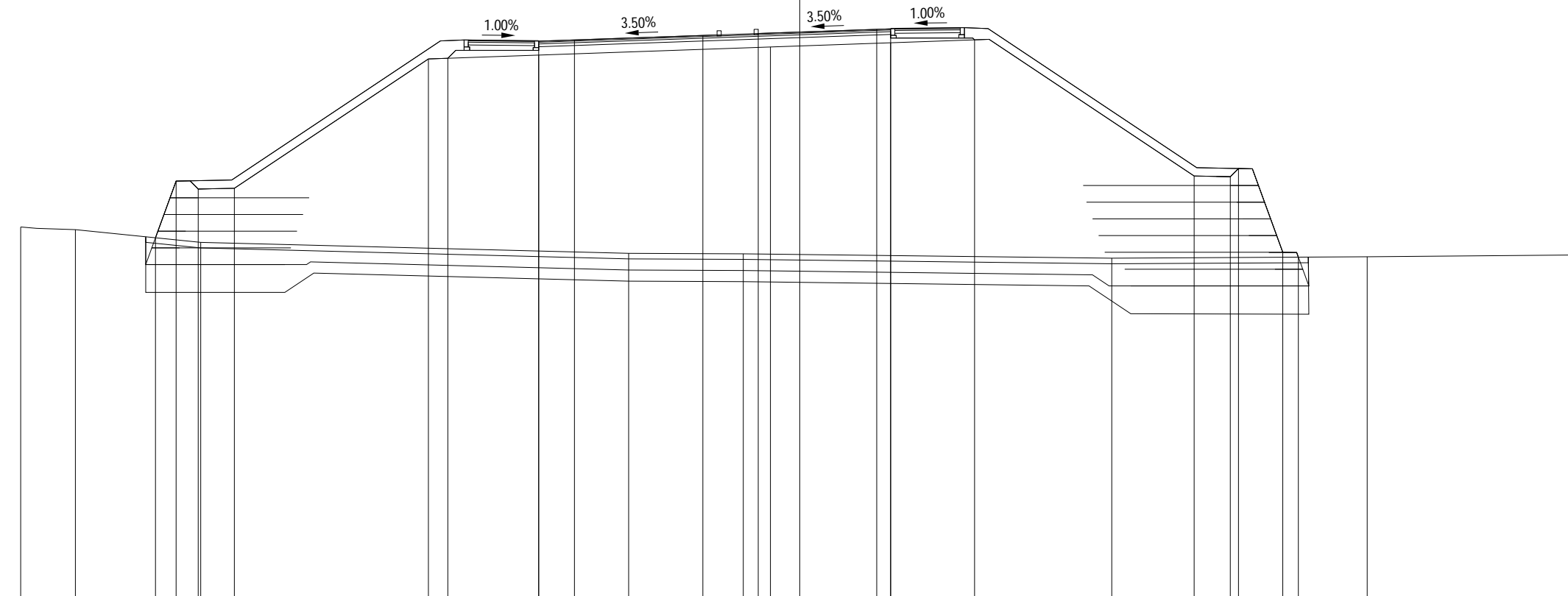
|                      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| QUOTE TERRENO        | 172.05 | 171.77 | 171.66 | 171.61 |        |        |        |        | 170.76 |        |        | 170.48 | 170.34 | 170.31 |        |        |        |
| PARZIALI TERRENO     |        | 2.49   | 2.58   | 1.77   |        | 24.68  |        |        |        | 15.25  |        | 5.99   |        | 3.24   |        |        |        |
| PROGRESSIVE TERRENO  | -28.00 | -25.51 | -22.93 | -21.16 |        |        |        |        | 3.52   |        |        | 18.77  | 24.76  | 28.00  |        |        |        |
| QUOTE USURA          |        |        |        |        |        | 178.34 | 178.41 | 178.56 | 178.59 | 178.72 | 178.74 |        |        |        |        |        |        |
| PARZIALI USURA       |        |        |        |        |        | 1.98   | 4.56   | 0.74   | 3.80   | 0.50   |        |        |        |        |        |        |        |
| QUOTE RILEVATO       |        |        | 171.64 | 173.31 | 173.02 | 173.05 | 177.70 | 177.72 | 177.84 | 178.09 | 178.24 | 178.35 | 173.45 | 173.43 | 173.72 | 170.71 | 170.50 |
| PARZIALI RILEVATO    |        |        | 0.61   | 0.80   | 1.30   | 6.97   | 0.70   | 3.28   | 7.28   | 4.30   | 3.01   | 7.90   | 1.30   | 0.29   | 1.59   | 0.58   |        |
| PROGRESSIVE RILEVATO |        |        | -21.99 | -21.38 | -20.58 | -19.28 | -12.31 | -11.61 | -8.33  | -1.05  | 3.25   | 6.26   | 14.16  | 15.46  | 15.75  | 17.34  | 17.92  |

PROFILO R1 ROT 3

SEZIONE R1-ROT3-15

PROGRESSIVA 176.30

- B SCAVO PER BONIFICA m<sup>2</sup> 45.22
- C RILEVATO 1 m<sup>2</sup> 231.53
- D RILEVATO 2 m<sup>2</sup> 21.00
- E MATERIALE ANTICAPILL m<sup>2</sup> 24.23
- F FONDAZIONE IN MISTO m<sup>2</sup> 4.75
- I TERRENO VEGETALE m<sup>2</sup> 7.05
- M MISTO GRANULARE COMP m<sup>2</sup> 0.83
- N MISTO GRALUNARE MARC m<sup>2</sup> 0.48
- a CONGL. BIT. (BINDER m 12.66
- b TAPPETO DI USURA m 11.17
- c CONGL. BIT. (BINDER m 4.73
- d TAPPETO DI USURA MAR m 4.73
- e PREPARAZIONE PIANO D m 41.80
- h GEOTESSILE INF. m 44.37
- i GEOTESSILE SUP. m 42.98



159

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|                      |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| QUOTE TERRENO        |  | 172.35 | 172.25 | 171.79 |        | 171.40 | 171.38 |        | 171.23 | 171.28 | 171.34 |        |        |        |        |        |        |
| PARZIALI TERRENO     |  | 1.97   | 4.50   | 15.38  | 4.12   | 13.24  | 9.19   | 7.60   |        |        |        |        |        |        |        |        |        |
| PROGRESSIVE TERRENO  |  | -28.00 | -26.03 | -21.53 | -6.15  | -2.03  | 11.21  | 20.40  | 28.00  |        |        |        |        |        |        |        |        |
| QUOTE USURA          |  |        |        |        | 179.03 | 179.07 | 179.23 | 179.30 | 179.45 | 179.47 |        |        |        |        |        |        |        |
| PARZIALI USURA       |  |        |        |        | 1.28   | 4.62   | 0.51   | 4.26   | 0.50   |        |        |        |        |        |        |        |        |
| QUOTE RILEVATO       |  |        | 171.96 | 174.00 | 173.71 | 173.74 | 178.39 | 178.41 | 178.53 | 178.82 | 178.97 | 179.07 | 174.18 | 174.15 | 174.45 | 171.44 | 171.26 |
| PARZIALI RILEVATO    |  |        | 0.75   | 0.79   | 1.30   | 6.97   | 0.70   | 3.27   | 8.33   | 4.32   | 3.01   | 7.90   | 1.30   | 0.29   | 1.59   | 0.56   |        |
| PROGRESSIVE RILEVATO |  |        | -23.16 | -22.41 | -21.62 | -20.32 | -13.35 | -12.65 | -9.38  | -1.05  | 3.27   | 6.28   | 14.18  | 15.48  | 15.77  | 17.36  | 17.92  |

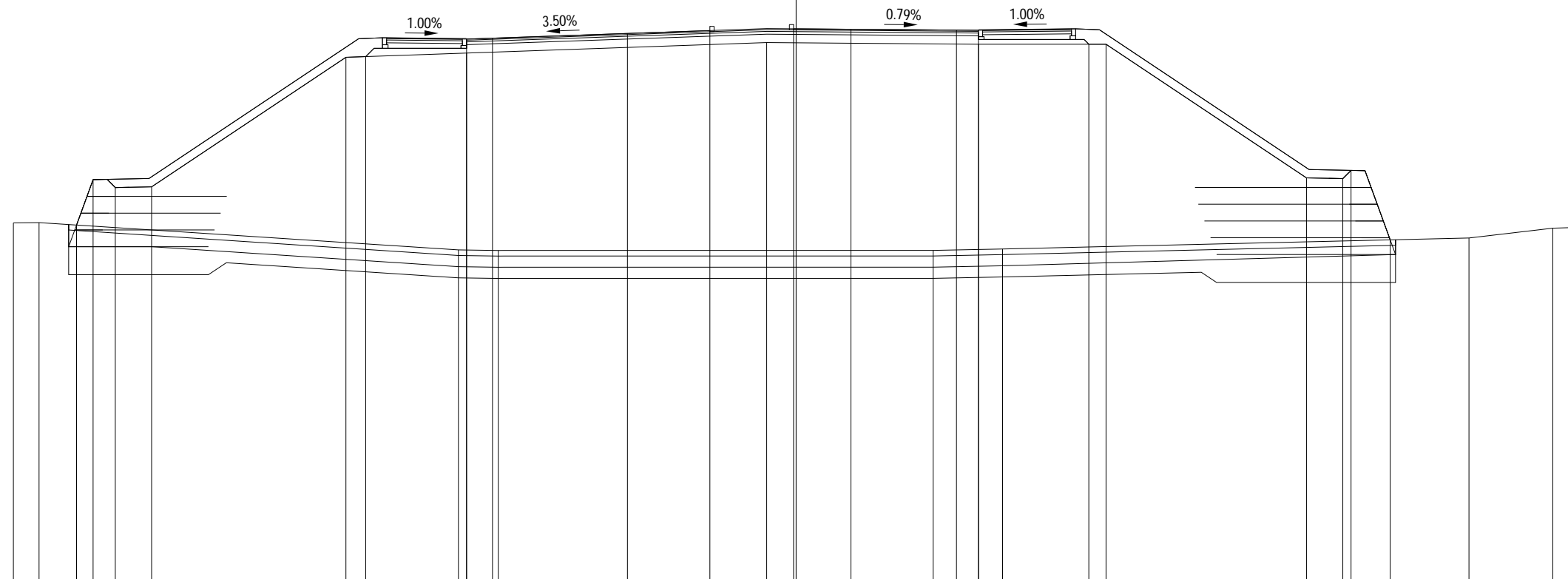


PROFILO R1 ROT 3

SEZIONE R1-ROT3-16

PROGRESSIVA 186.81

|                        |                |        |
|------------------------|----------------|--------|
| B SCAVO PER BONIFICA   | m <sup>2</sup> | 44.35  |
| C RILEVATO 1           | m <sup>2</sup> | 268.97 |
| D RILEVATO 2           | m <sup>2</sup> | 18.83  |
| E MATERIALE ANTICAPILL | m <sup>2</sup> | 25.52  |
| F FONDAZIONE IN MISTO  | m <sup>2</sup> | 6.93   |
| I TERRENO VEGETALE     | m <sup>2</sup> | 7.15   |
| M MISTO GRANULARE COMP | m <sup>2</sup> | 1.06   |
| N MISTO GRALUNARE MARC | m <sup>2</sup> | 0.57   |
| a CONGL. BIT. (BINDER  | m              | 18.32  |
| b TAPPETO DI USURA     | m              | 15.32  |
| c CONGL. BIT. (BINDER  | m              | 5.89   |
| d TAPPETO DI USURA MAR | m              | 5.89   |
| e PREPARAZIONE PIANO D | m              | 47.49  |
| h GEOTESSILE INF.      | m              | 47.72  |
| i GEOTESSILE SUP.      | m              | 47.49  |



|                      |        |        |        |        |        |       |        |        |        |        |        |        |        |        |  |        |        |        |        |      |       |       |       |       |
|----------------------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--|--------|--------|--------|--------|------|-------|-------|-------|-------|
| QUOTE TERRENO        | 172.82 | 172.83 |        | 171.85 | 171.83 |       | 171.84 | 171.89 |        | 172.28 | 172.63 | 172.66 |        |        |  |        |        |        |        |      |       |       |       |       |
| PARZIALI TERRENO     | 0.92   |        | 15.00  | 1.43   |        | 15.55 | 2.49   |        | 16.68  | 3.00   | 0.93   |        |        |        |  |        |        |        |        |      |       |       |       |       |
| PROGRESSIVE TERRENO  | -28.00 | -27.08 |        | -12.08 | -10.65 |       | 4.90   | 7.39   |        | 24.07  | 27.07  | 28.00  |        |        |  |        |        |        |        |      |       |       |       |       |
| QUOTE USURA          |        |        |        | 179.39 | 179.43 |       | 179.60 | 179.70 | 179.76 | 179.75 | 179.72 | 179.71 |        |        |  |        |        |        |        |      |       |       |       |       |
| PARZIALI USURA       |        |        |        | 0.93   | 4.83   |       | 2.95   |        | 2.05   | 3.78   | 0.78   |        |        |        |  |        |        |        |        |      |       |       |       |       |
| QUOTE RILEVATO       |        | 172.74 | 174.37 | 174.08 | 174.11 |       | 178.74 | 178.77 | 178.89 |        | 179.27 |        | 179.21 | 179.21 |  | 174.43 | 174.40 | 174.70 | 172.21 |      |       |       |       |       |
| PARZIALI RILEVATO    |        | 0.59   | 0.80   | 1.29   |        | 6.96  | 0.70   | 3.61   |        | 10.74  |        | -1.05  |        | 7.57   |  | 3.95   | 0.62   | 7.17   |        | 1.30 | 0.29  | 1.40  |       |       |
| PROGRESSIVE RILEVATO |        | -25.74 | -25.15 | -24.35 | -23.06 |       | -16.10 | -15.40 | -11.79 |        |        |        |        |        |  |        | 6.52   | 10.47  | 11.09  |      | 18.26 | 19.56 | 19.85 | 21.25 |