



# LIBERO CONSORZIO COMUNALE DI AGRIGENTO

ai sensi della L.R. n 15/2015

**Accordo Quadro per i lavori di M.S. lungo la S.P. n. 88, tratto dalla S.P. n. 36 alla S.P. n. 47 "Sant' Anna - Villafranca Sicula" – (SNAI SICANI) – Anno 2024  
CUP: B17H22001190001.**

**Livello di progettazione:**

**PFTE**

## ELABORATI

- 01 – Relazione Tecnica e Quadro Economico
- 02 – Relazione Geologica
- 03 – Corografia
- 04 – Planimetria 1:10.000
- 05 – Particolari costruttivi opere d'arte
- 06 – Elenco dei prezzi unitari
- 07 – Piano di sicurezza e coordinamento
- 08 - Disciplinare descrittivo prestazionale
- 09 - Crono programma dei lavori
- 10 - Piano preliminare di manutenzione dell'opera

### IL PROGETTISTA

**f.to Giuseppe Bonfiglio**

(geom. Giuseppe Bonfiglio)

Agrigento, li 25/07/2024

### IL VERIFICATORE

**f.to Alessandro Tuttolomondo**

(Arch. Alessandro Tuttolomondo)

Agrigento, li 31/07/2024

### IL RUP

**f.to Roberto Bonfiglio**

(dott. Roberto Bonfiglio)

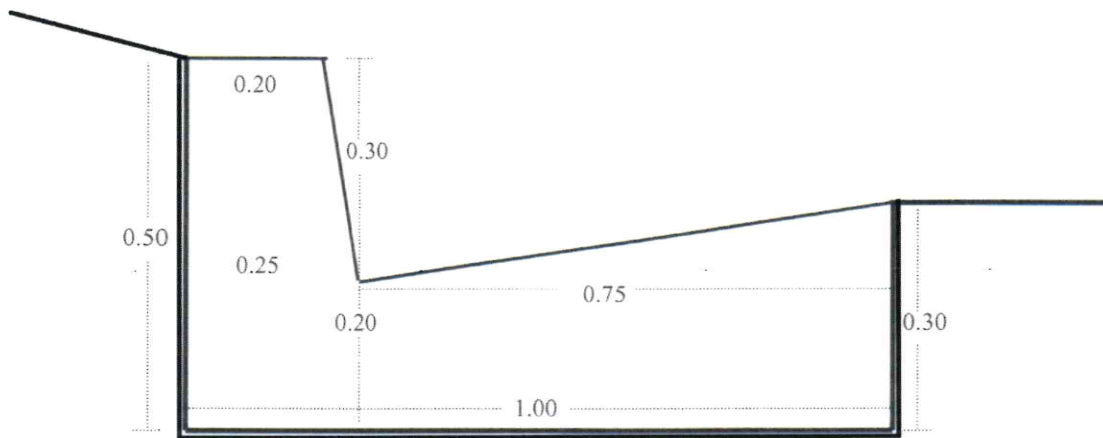
Agrigento, li \_\_\_\_\_

Elab. n.

**0.5**

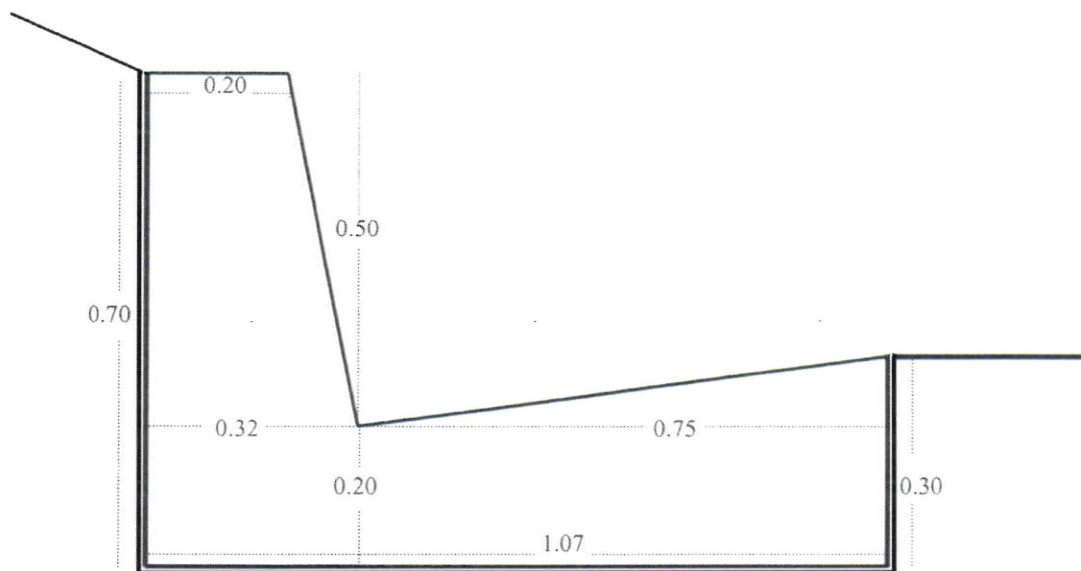
**Particolari costruttivi opere d'arte**

### CUNETTA SEMPLICE h = 0,30 m



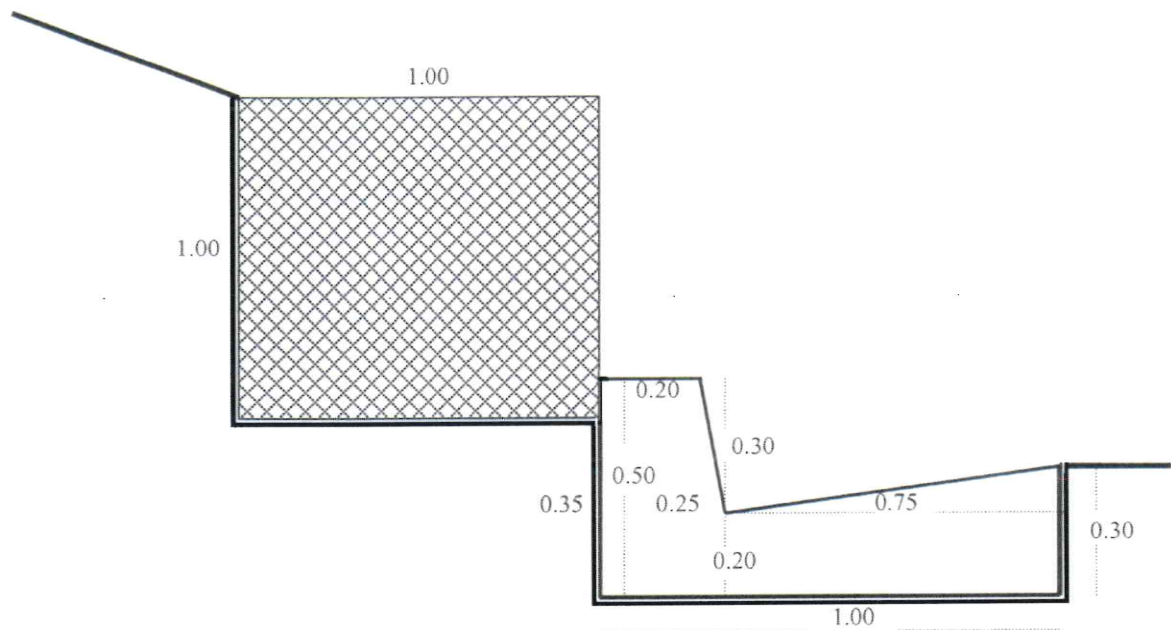
|                   |                                   |                    |                         |
|-------------------|-----------------------------------|--------------------|-------------------------|
| Scavo a sezione   | mc (1.00 x 0.30 x 1.00)           | =                  | <b><u>mc 0.30</u></b>   |
| C.L.S. in fondaz. | mc(1.00 x 0.20 x 1.00)            | = mc 0.20          |                         |
|                   | mc (0.75 x 0.10 : 2 x 1.00)       | = <u>mc 0.0375</u> |                         |
|                   | tot                               | mc 0.2375          | <b><u>mc 0.2375</u></b> |
| C.L.S. in elevaz. | mc (0.20 + 0.25): 2 x 0.30 x 1.00 | =                  | <b><u>mc 0.0675</u></b> |
| Casseformi        | mq (0.30 x 2 x 1.00)              | =                  | <b><u>mq 0.60</u></b>   |

## CUNETTA SEMPLICE h = 0,50 m



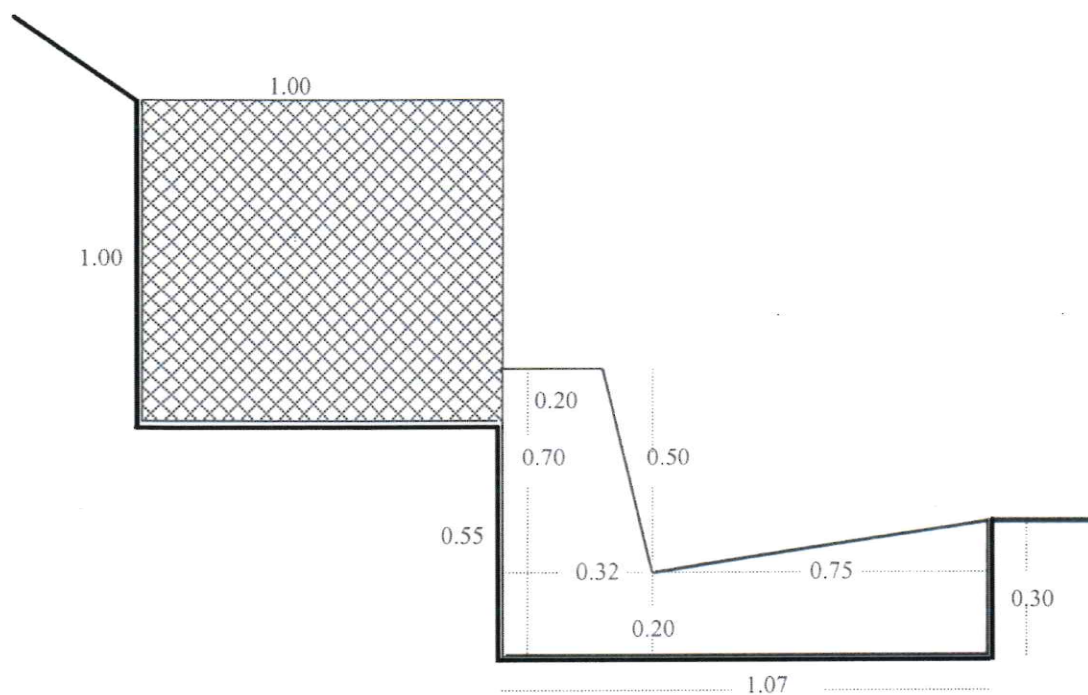
|                   |                                                        |   |                        |
|-------------------|--------------------------------------------------------|---|------------------------|
| Scavo a sezione   | $\text{mc } (1.07 \times 0.30 \times 1.00)$            | = | <u><b>mc 0.321</b></u> |
| C.L.S. in fondaz. | $\text{mc } (1.07 \times 0.20 \times 1.00)$            | = | mc 0.214               |
|                   | $\text{mc } (0.75 \times 0.10 : 2) \times 1.00$        | = | <u>mc 0.0375</u>       |
|                   | tot                                                    |   | <u>mc 0.2515</u>       |
| C.L.S. in elevaz. | $\text{mc } (0.20 + 0.32) : 2 \times 0.50 \times 1.00$ | = | <u><b>mc 0.13</b></u>  |
| Casseformi        | $\text{mq } (0.50 + 0.70) \times 1.00$                 | = | <u><b>mq 1.20</b></u>  |

## CUNETTA SEMPLICE h = 0,30 m CON GABBIONE



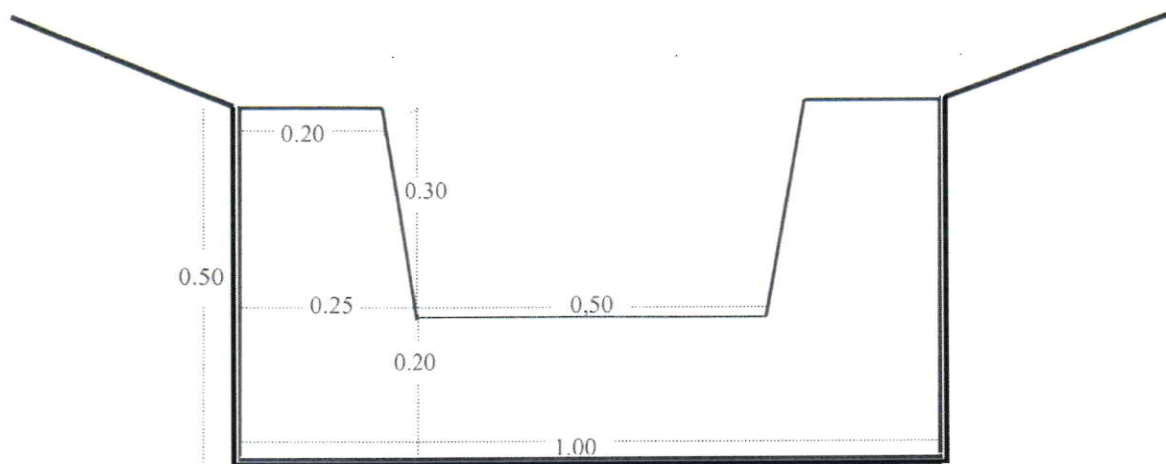
|                   |                                                                                                                                    |                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Scavo a sezione   | $mc (1.00 \times 0.30 \times 1.00)$                                                                                                | = <u>mc 0.30</u>   |
| C.L.S. in fondaz. | $mc(1.00 \times 0.20 \times 1.00) = mc 0.20$<br>$mc (0.75 \times 0.10 : 2 \times 1.00) = \underline{mc 0.0375}$<br>tot $mc 0.2375$ | = <u>mc 0.2375</u> |
| C.L.S. in elevaz. | $mc (0.20 + 0.25) : 2 \times 0.30 \times 1.00$                                                                                     | = <u>mc 0.0675</u> |
| Casseformi        | $mq (0.30 \times 2 \times 1.00)$                                                                                                   | = <u>mq 0.60</u>   |

## CUNETTA SEMPLICE h = 0,50 m CON GABBIONE



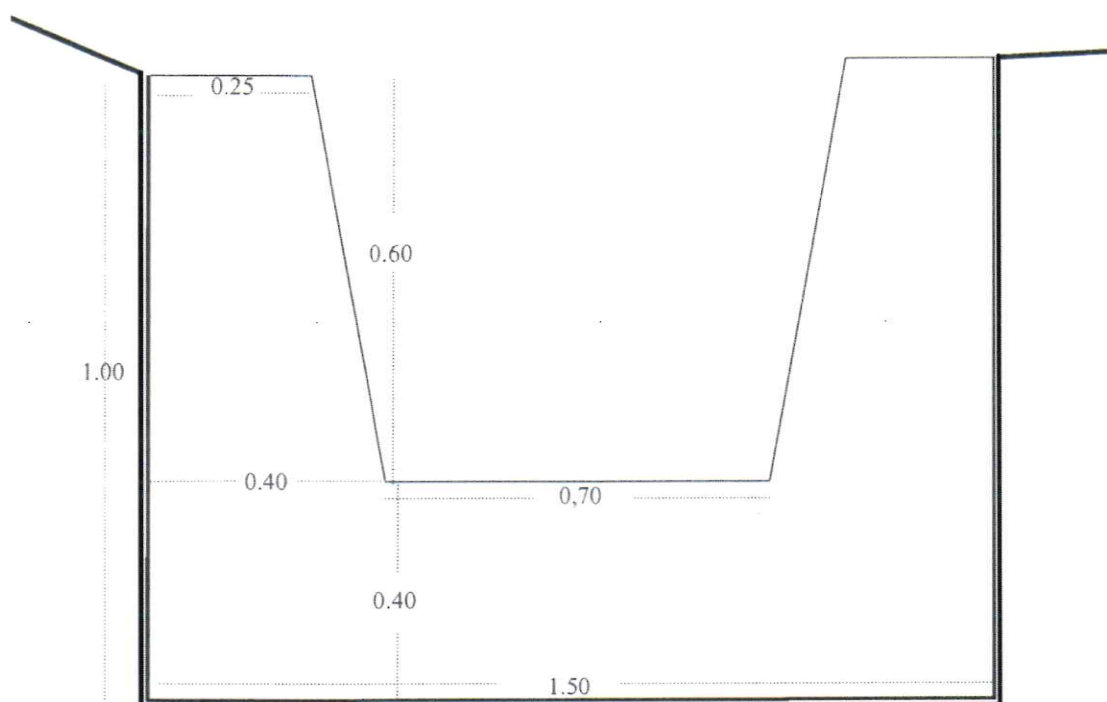
|                   |                                                |   |                        |
|-------------------|------------------------------------------------|---|------------------------|
| Scavo a sezione   | $mc (1.07 \times 0.30 \times 1.00)$            | = | <u><b>mc 0.321</b></u> |
| C.L.S. in fondaz. | $mc (1.07 \times 0.20 \times 1.00)$            | = | mc 0.214               |
|                   | $mc (0.75 \times 0.10 : 2) \times 1.00$        | = | <u>mc 0.0375</u>       |
|                   | tot                                            |   | mc 0.2515              |
| C.L.S. in elevaz. | $mc (0.20 + 0.32) : 2 \times 0.50 \times 1.00$ | = | <u><b>mc 0.13</b></u>  |
| Casseformi        | $mq (0.50 + 0.70) \times 1.00$                 | = | <u><b>mq 1.20</b></u>  |

## CUNETTA TRAPEZIA h = 0,30 m



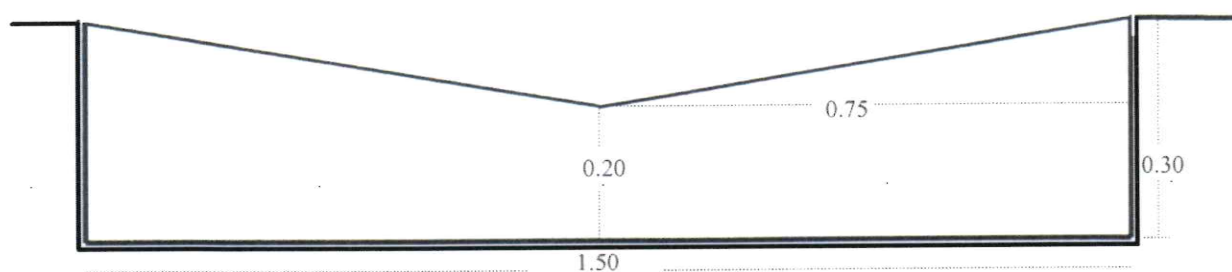
|                   |                                                         |                   |                 |
|-------------------|---------------------------------------------------------|-------------------|-----------------|
| Scavo a sezione   | $mc (1.00 \times 0.50 \times 1.00)$                     | =                 | <u>mc 0.50</u>  |
| C.L.S. in fondaz. | $mc (1.00 \times 0.20 \times 1.00)$                     | = mc 0.20         |                 |
|                   | $mc (0.20 + 0.25 : 2) \times 0.30 \times 1.00 \times 2$ | = <u>mc 0.135</u> |                 |
|                   | tot                                                     | mc 0.335          | <u>mc 0.335</u> |
| Casseformi        | $mq (0.50 + 0.30 \times 2) \times 1.00$                 | =                 | <u>mq 1.60</u>  |

## CUNETTA TRAPEZIA h = 1.00 m



|                   |                                                                 |                  |                        |
|-------------------|-----------------------------------------------------------------|------------------|------------------------|
| Scavo a sezione   | $\text{mc } (1.50 \times 1.00 \times 1.00)$                     |                  | <u><b>=mc 1.50</b></u> |
| C.L.S. in fondaz. | $\text{mc } (1.50 \times 0.40 \times 1.00)$                     | = mc 0.60        |                        |
|                   | $\text{mc } (0.25 + 0.40 : 2) \times 0.60 \times 1.00 \times 2$ | = <u>mc 0.39</u> |                        |
|                   |                                                                 | tot mc 0.99      | <u><b>=mc 0.99</b></u> |
| Casseformi        | $\text{mq } (0.60 \times 1.00) \times 4$                        |                  | <u><b>=mq 2.40</b></u> |

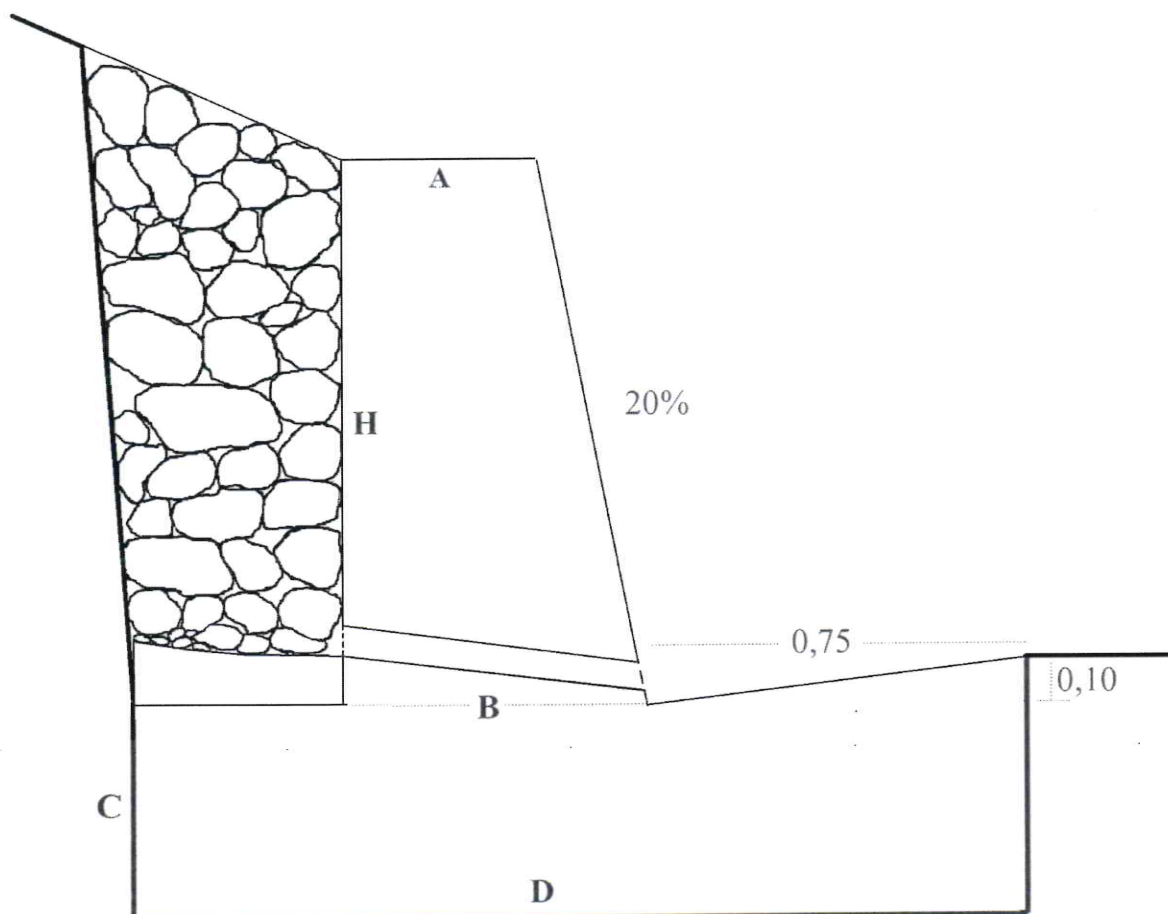
## CUNETTA PIANA doppia



|                   |                                                          |          |                        |
|-------------------|----------------------------------------------------------|----------|------------------------|
| Scavo a sezione   | $\text{mc } (1.50 \times 0.30 \times 1.00)$              | =        | <u><b>mc 0.45</b></u>  |
| C.L.S. in fondaz. | $\text{mc } (1.50 \times 0.20 \times 1.00)$              | =        | mc 0.135               |
|                   | $\text{mc } (0.75 \times 0.10 : 2) \times 2 \times 1.00$ | =        | <u>mc 0.075</u>        |
|                   | tot                                                      | mc 0.210 | <u><b>mc 0.210</b></u> |

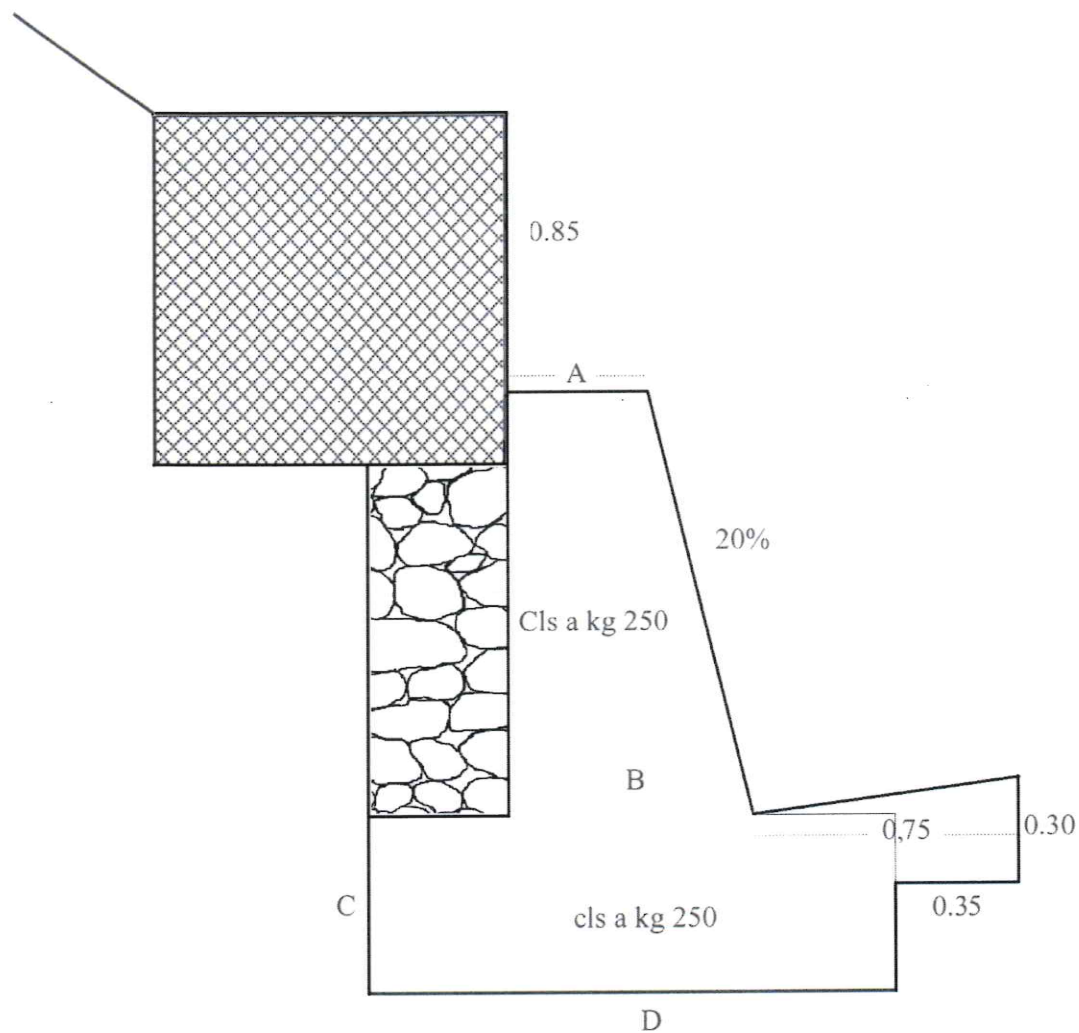


## Muro di controripa con cunetta piana



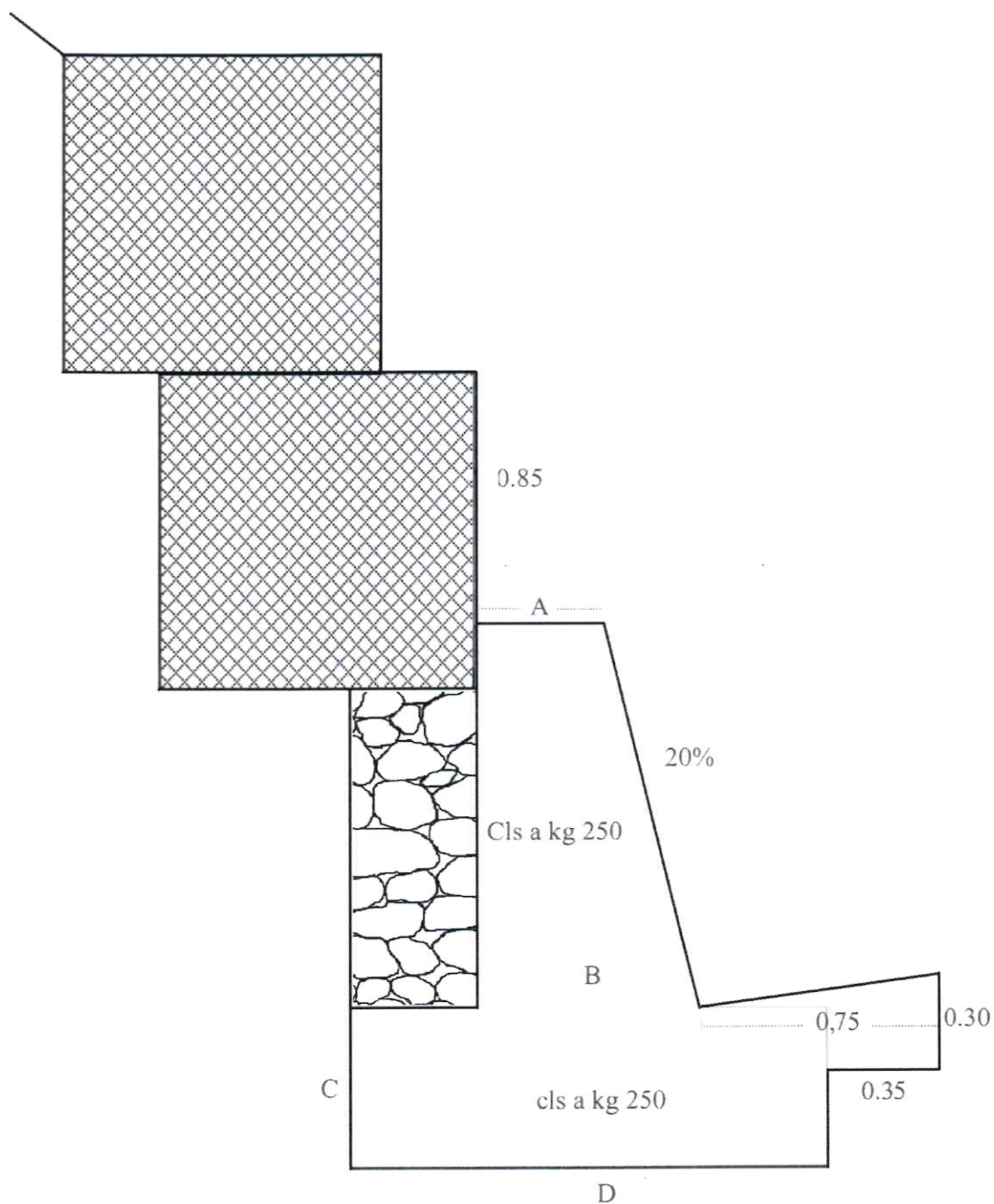
| H    | A    | B    | C    | D    | Scavo | cls 200 | cls 250 | cass |
|------|------|------|------|------|-------|---------|---------|------|
| 1,00 | 0.40 | 0.60 | 0.50 | 1.75 | 0,875 | 0,91    | 0.50    | 2,00 |
| 1,50 | 0.40 | 0.70 | 0,60 | 1.75 | 1,05  | 1,09    | 0,825   | 3,00 |
| 2,00 | 0.40 | 0.80 | 0.70 | 1.90 | 1,33  | 1,37    | 1,20    | 4,00 |
| 2,50 | 0,40 | 0.90 | 0,80 | 2.05 | 1,64  | 1,68    | 1,625   | 5,00 |
|      |      |      |      |      |       |         |         |      |

**MURO DI CONTRORIPA h=1,00 m**  
**CON CUNETTA E N 1 FILA DI GABBIONE**



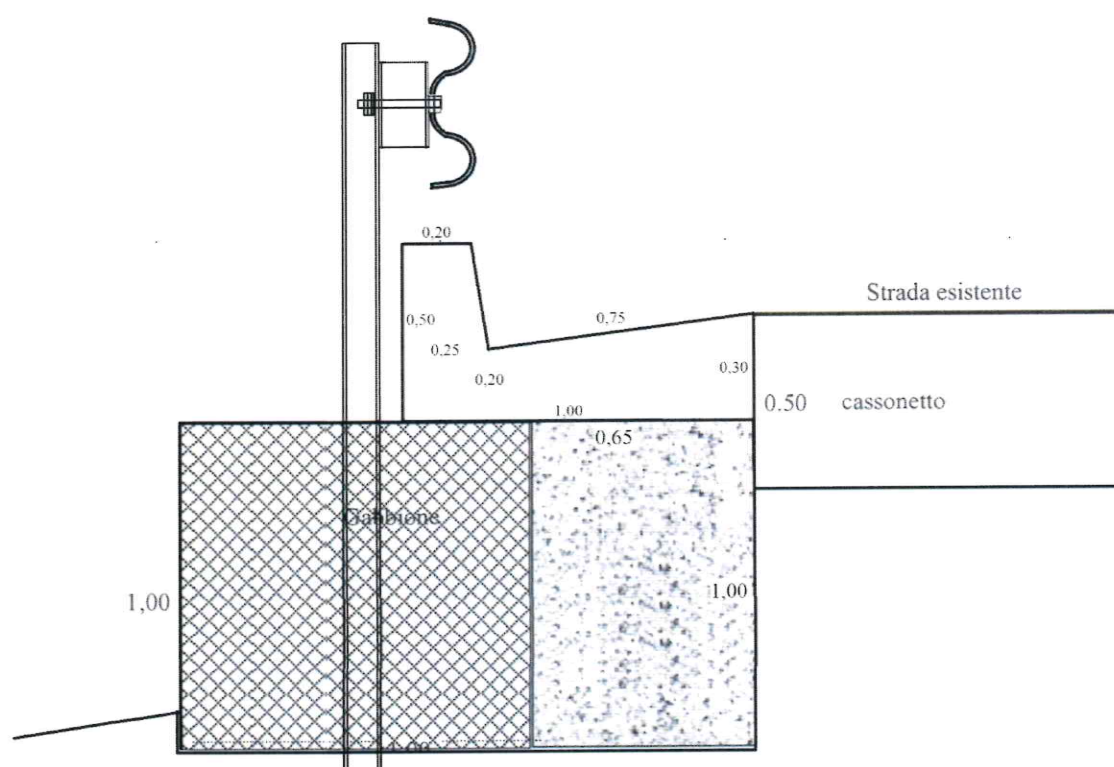
| H    | A    | B    | C    | D    | Scavo | cls 250<br>in fond. | cls 250<br>in elev. | Cass |
|------|------|------|------|------|-------|---------------------|---------------------|------|
| 1,00 | 0,40 | 0,60 | 0,50 | 1,40 | 0,76  | 0,76                | 0,50                | 2,00 |
|      |      |      |      |      |       |                     |                     |      |

**MURO DI CONTRORIPA h=1,00 m**  
**CON CUNETTA E N 2 FILA DI GABBIONE**

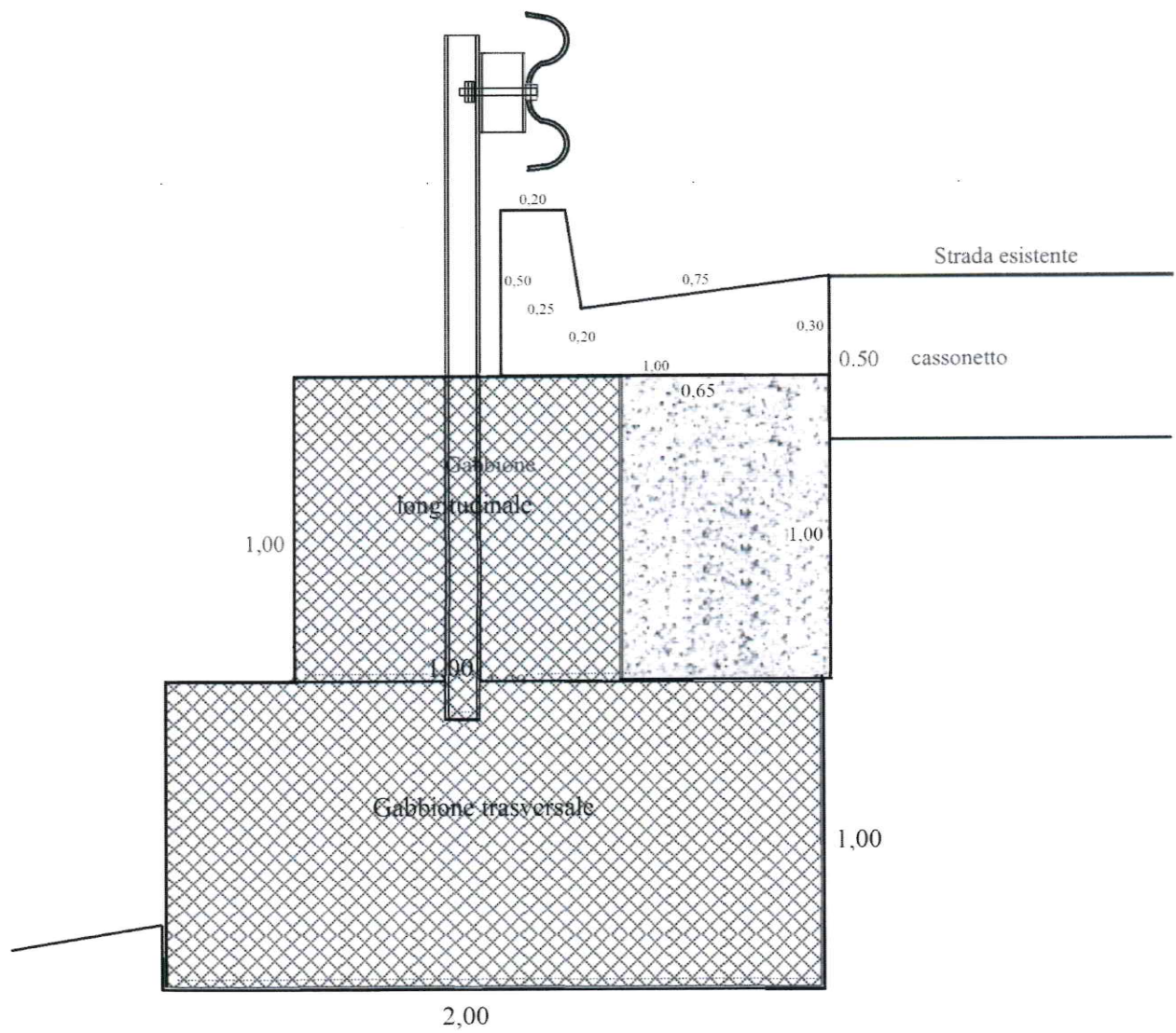


| H    | A    | B    | C    | D    | Scavo | cls 250<br>in fond. | cls 250<br>in elev. | Cass |
|------|------|------|------|------|-------|---------------------|---------------------|------|
| 1,00 | 0,40 | 0,60 | 0,50 | 1,40 | 0,76  | 0,76                | 0,50                | 2,00 |
|      |      |      |      |      |       |                     |                     |      |

## RIPRISTINO DI BANCHINA CON GABBIONI A 1 FILA E CUNETTA

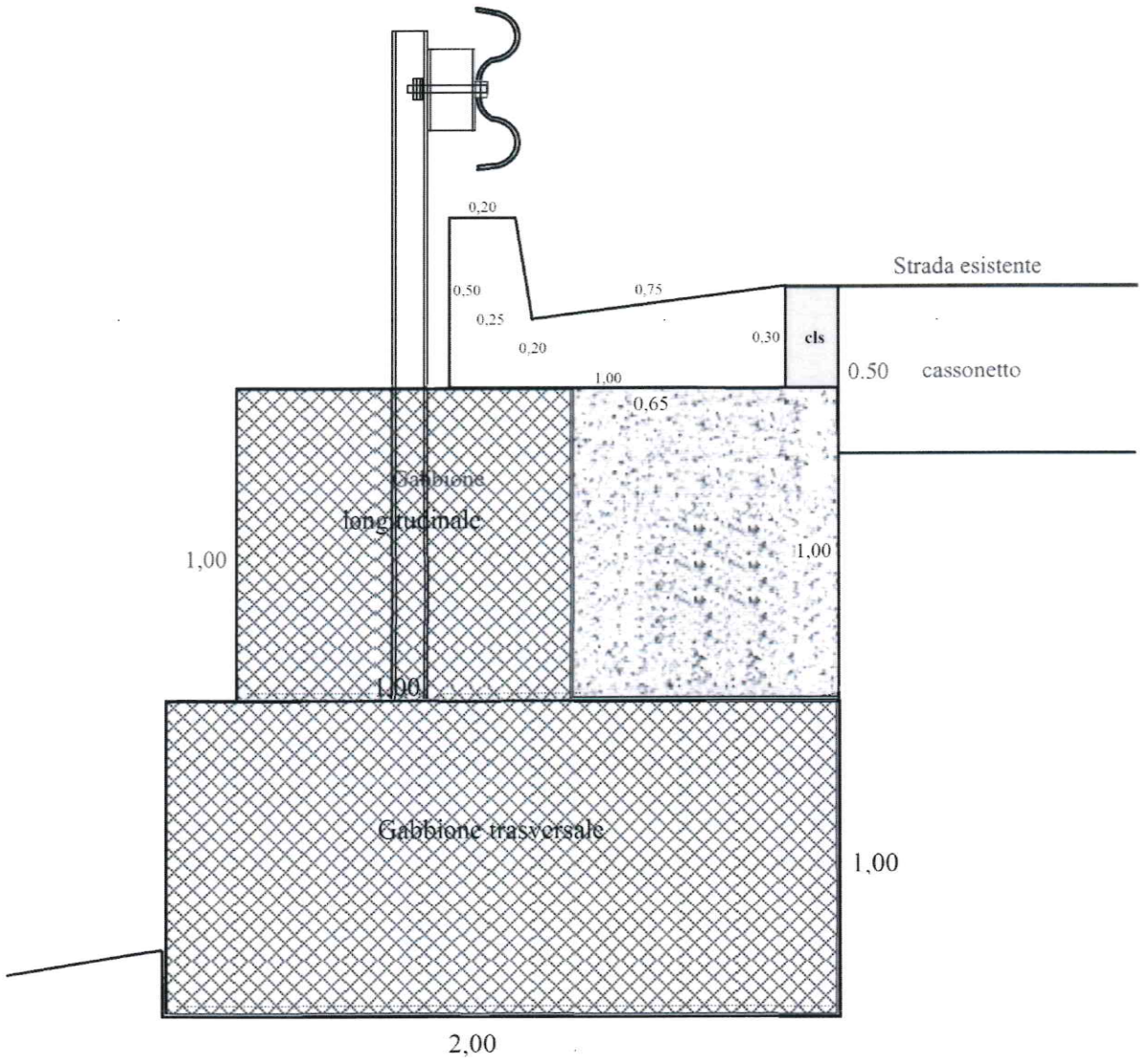


## RIPRISTINO DI BANCHINA CON GABBIONI A 2 FILA E CUNETTA

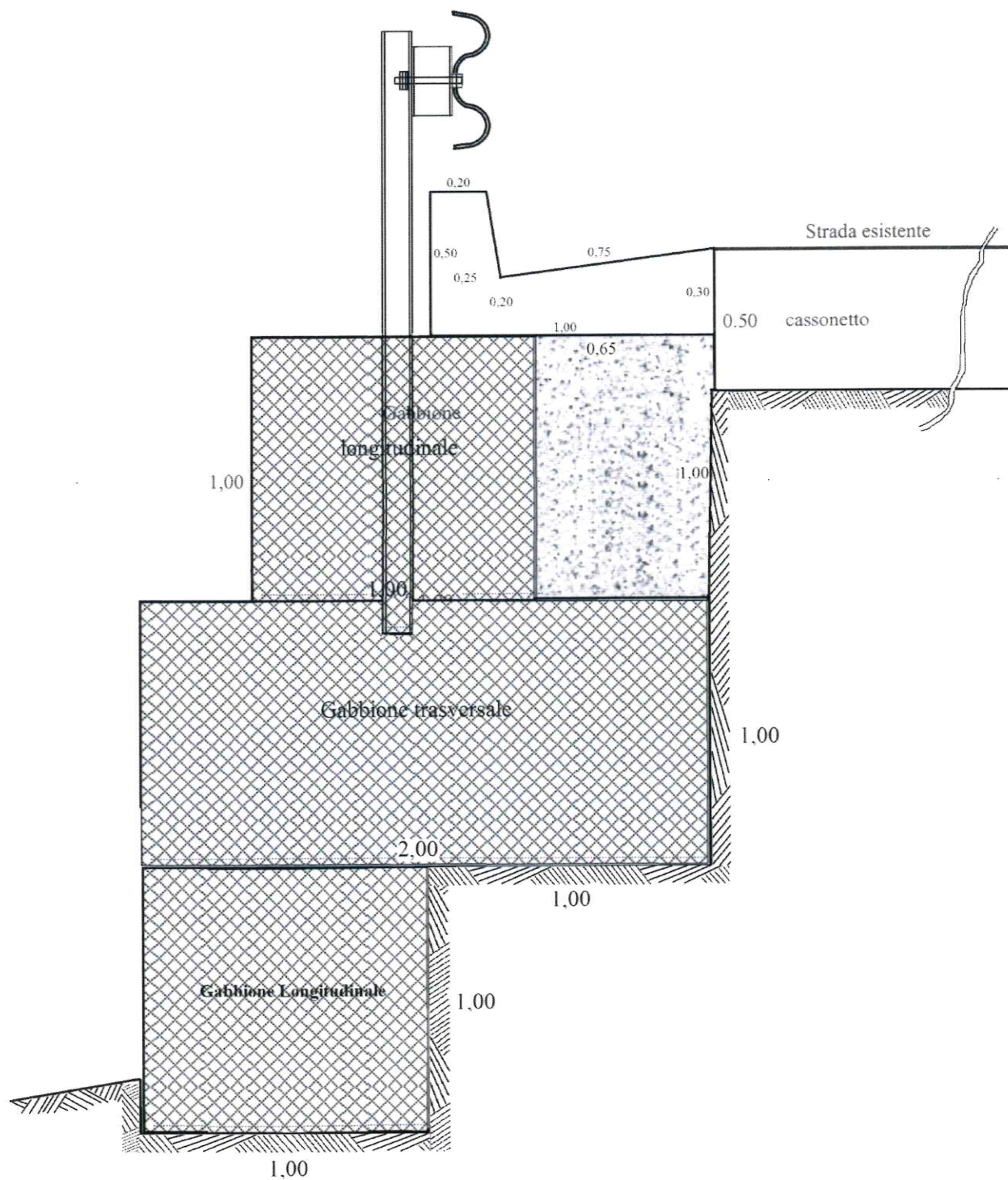




**RIPRISTINO DI BANCHINA  
CON GABBIONI A 2 FILE E CUNETTA**



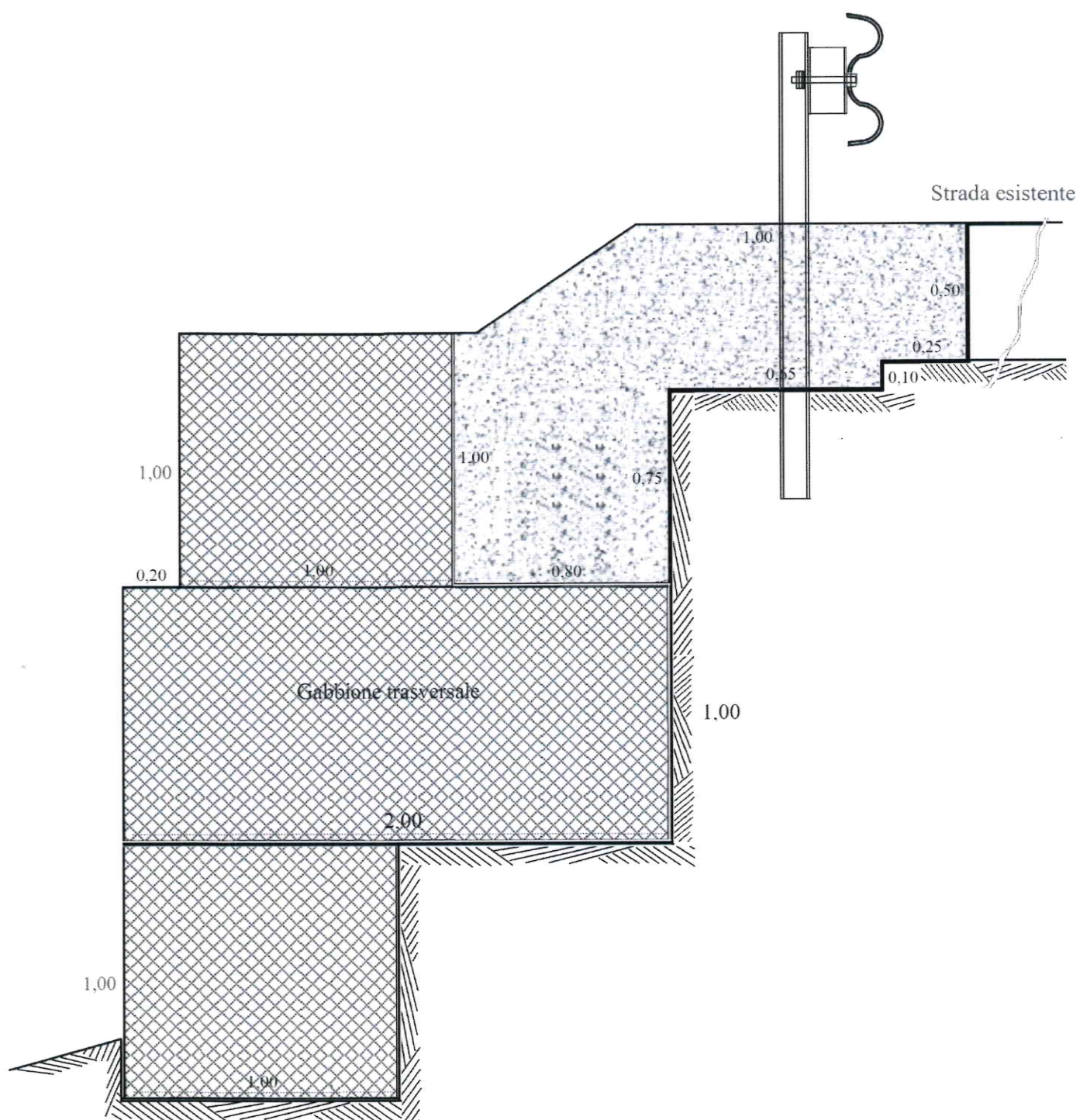
# RIPRISTINO DI BANCHINA CON GABBIONI A 2 FILA E CUNETTA



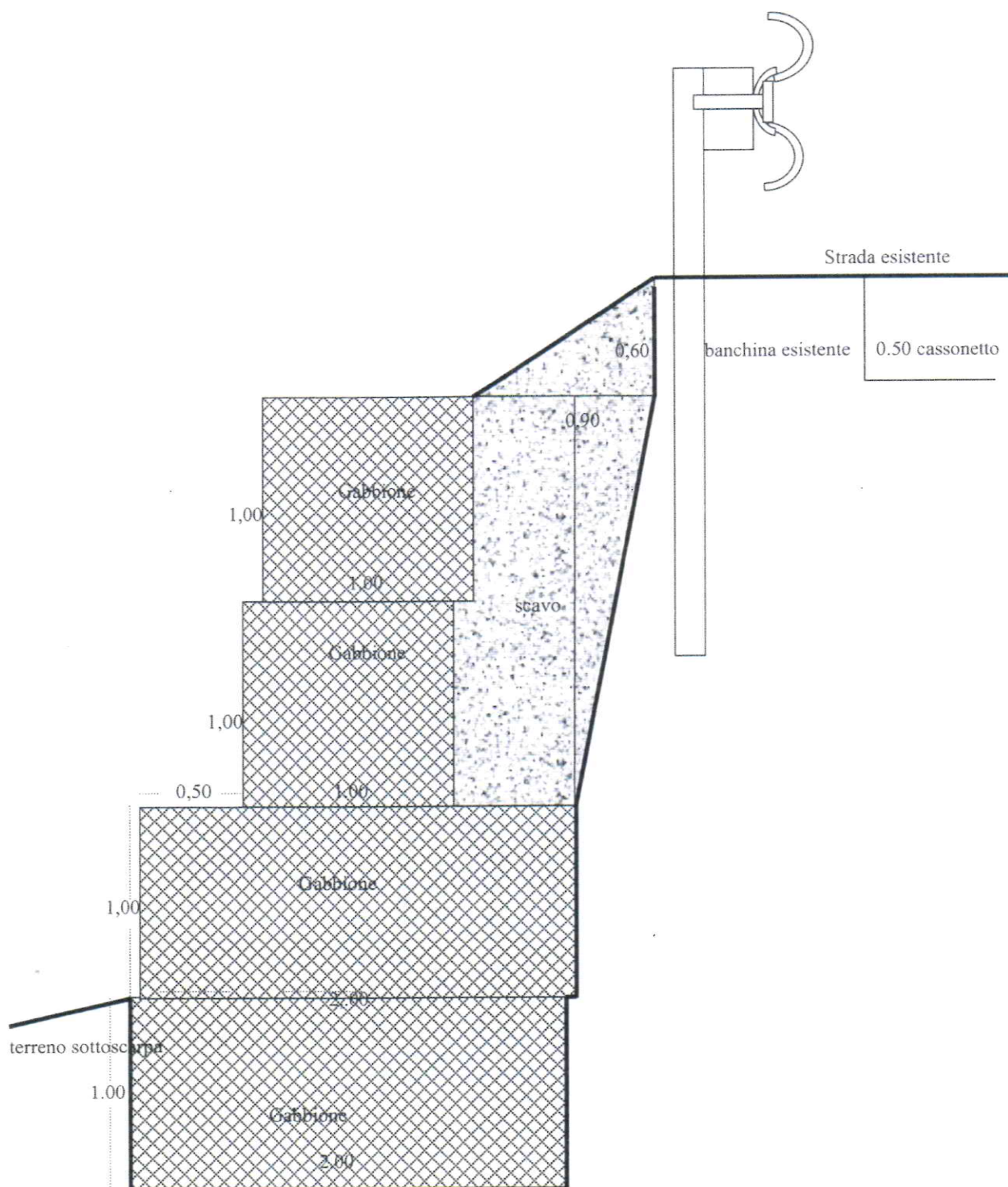




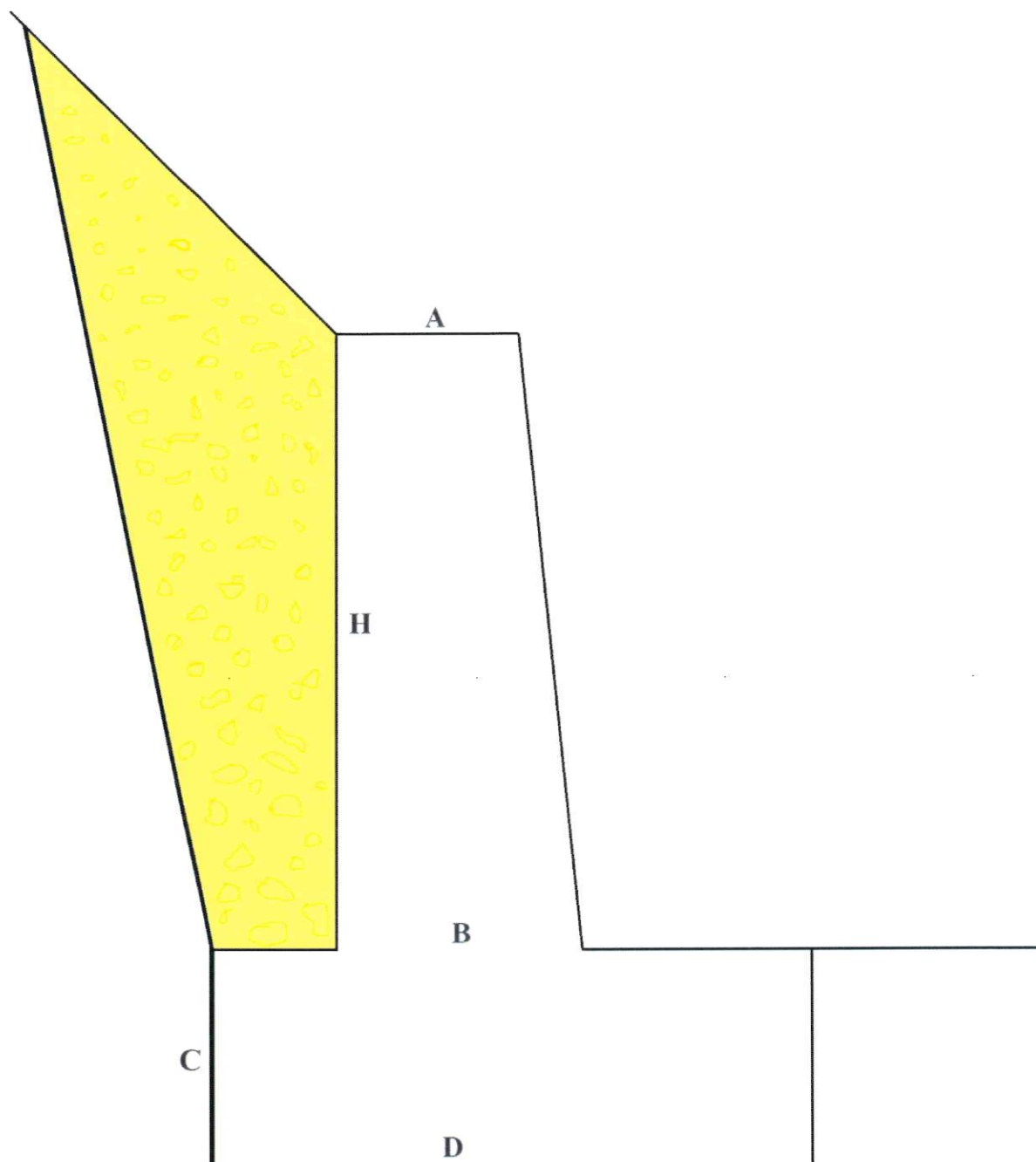
**SEZ. TIPO**  
**DI RIFACIMENTO BANCHINA**  
**CON GABBIONI METALLICI DI**  
**SOTTOSCARPA A N°3 FILE**



**SEZ. TIPO**  
**GABBIONI METALLICI**  
**DI SOTTOSCARPA**  
**a n 4 file**



## MURO DI SOTTOSCARPA



| H    | A    | B    | C    | D    | Scavo | cls 200 | cls 250 | cass |
|------|------|------|------|------|-------|---------|---------|------|
| 1,00 | 0,60 | 0,80 | 0,70 | 1,60 | 1,12  | 1,12    | 0,70    | 2,00 |
| 1,50 | 0,60 | 0,90 | 0,80 | 1,70 | 1,36  | 1,36    | 1,125   | 3,00 |
| 2,00 | 0,60 | 1,00 | 0,90 | 1,80 | 1,62  | 1,62    | 1,60    | 4,00 |
| 2,50 | 0,60 | 1,10 | 1,00 | 1,90 | 1,90  | 1,90    | 2,125   | 5,00 |
|      |      |      |      |      |       |         |         |      |