



**COMUNE DI SASSARI**  
(PROVINCIA DI SASSARI)

**IMPIANTO DI PRODUZIONE ENERGIA RINNOVABILE DA  
IMPIANTO EOLICO E AGRI - FOTOVOLTAICO  
POTENZA NOMINALE 13103,37 kW  
IN SASSARI - LOC. "CAMPANEDDA"**

**PROGETTO DEFINITIVO**

*PROGETTISTI:*

Ing. Antonio Fraghi  
Ing. Giuseppe Fraghi  
Ing. Francesca Frongia

*COMMITTENTE:*

BENTUSOLIANA  
ENERGIE RINNOVABILI S.R.L.  
via Cavour n. 33, Sassari, 07100

*TITOLO:*

**SEZIONI TRASVERSALI:  
TRATTO Q-R**

*TAVOLA:*

**PD-Tav28**

*CODICE ELABORATO:*

PD-Tav28

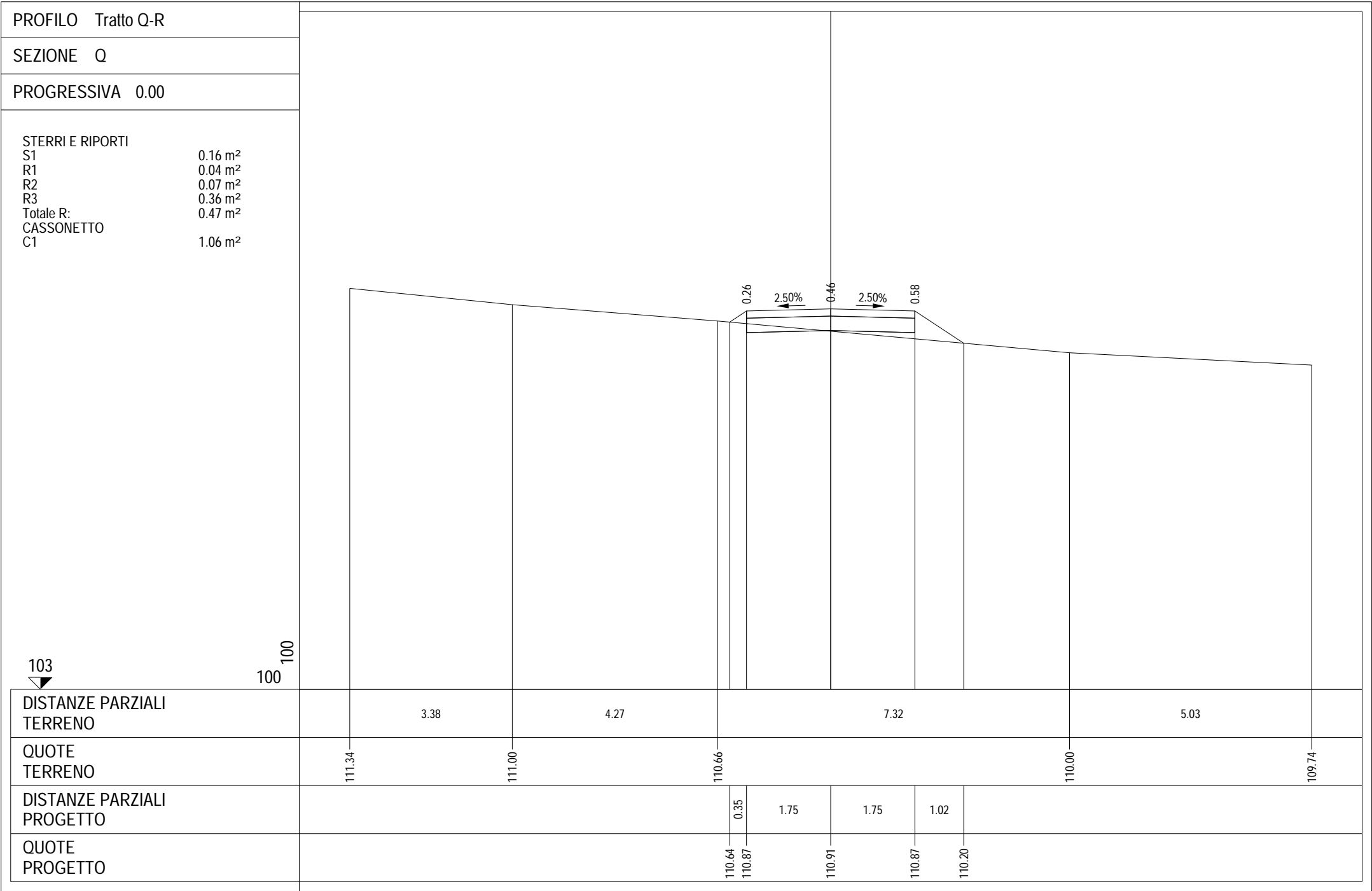
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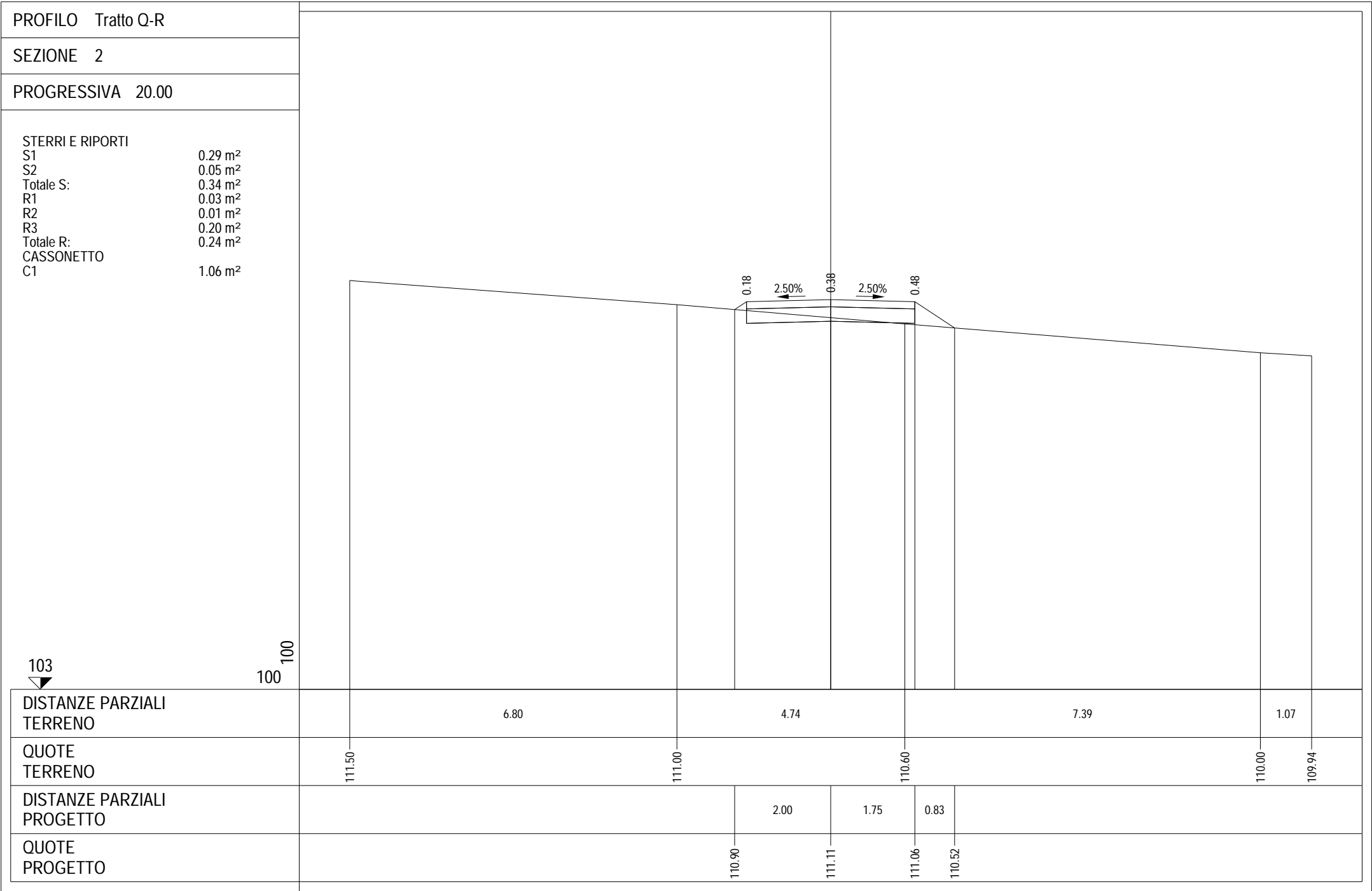
Maggio 2024

*AGGIORNAMENTO:*

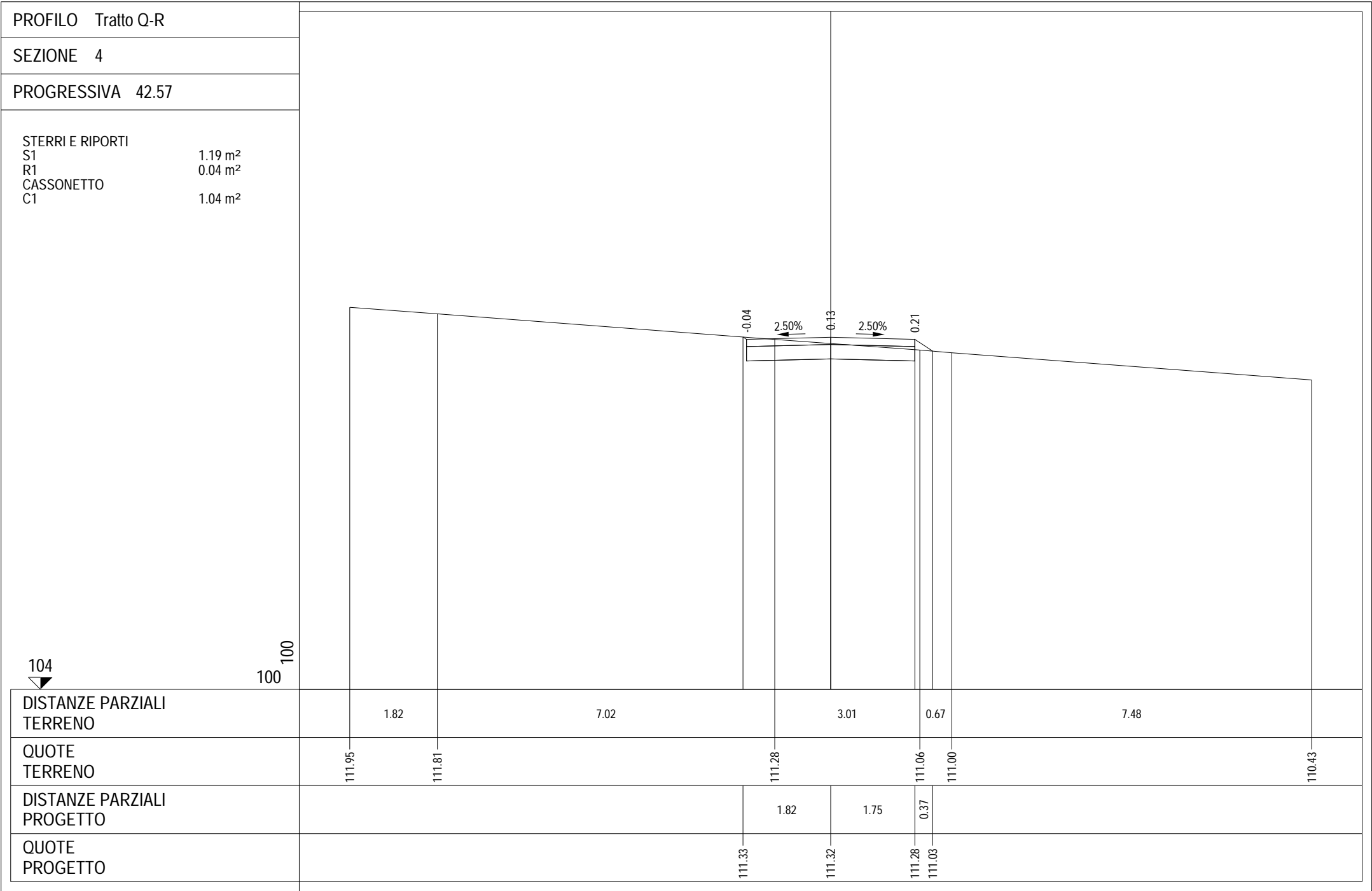
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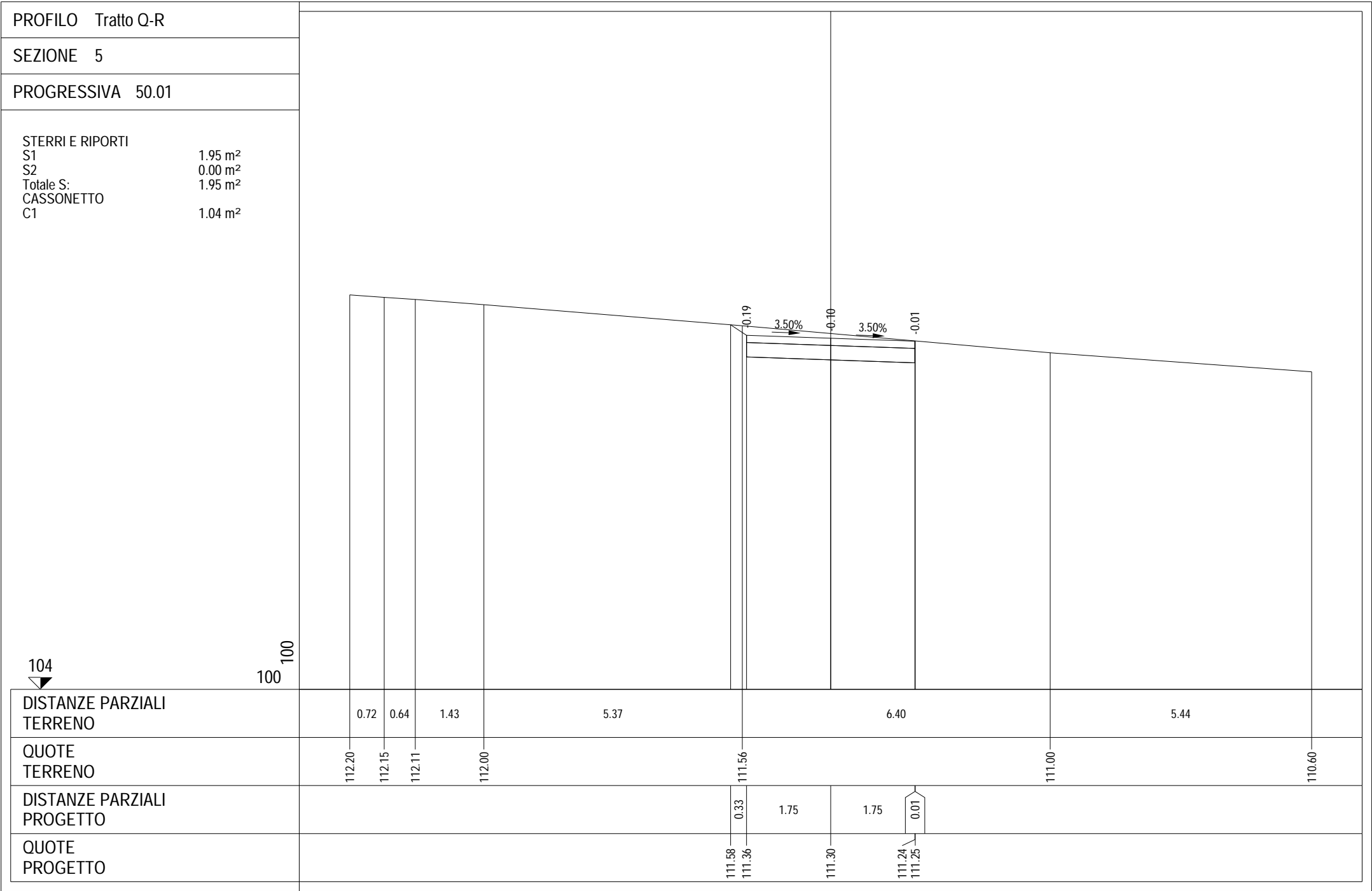
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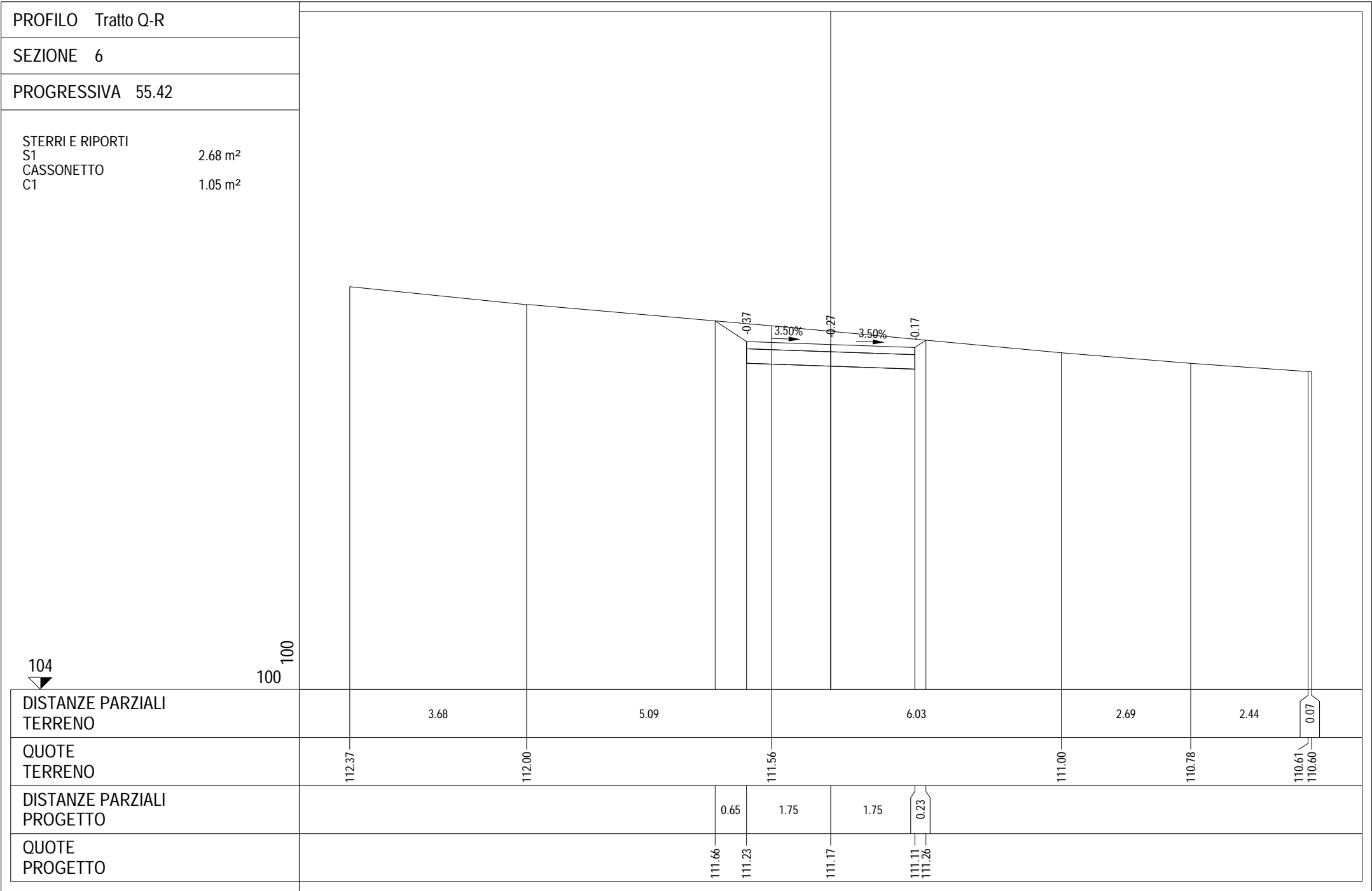


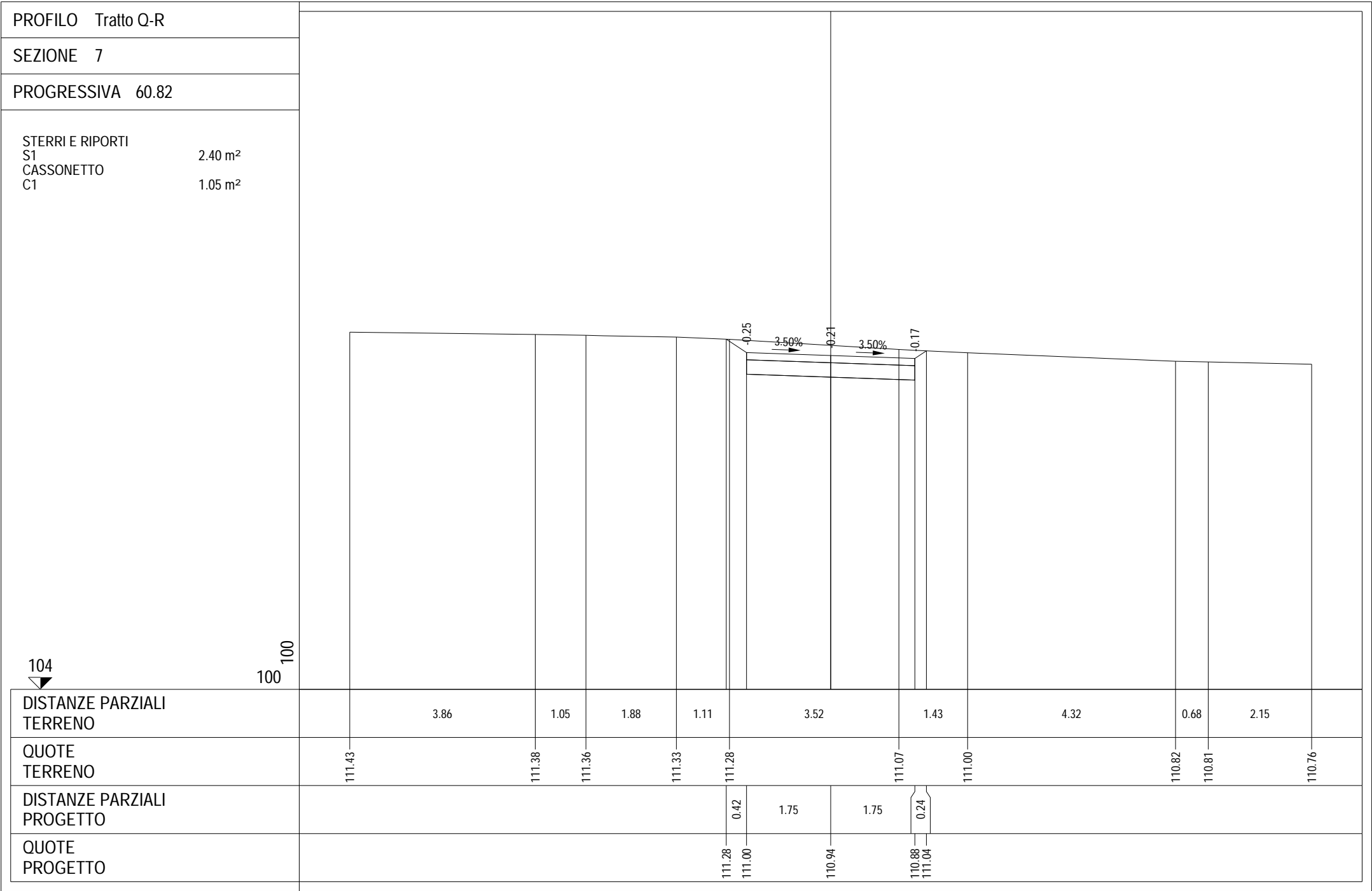




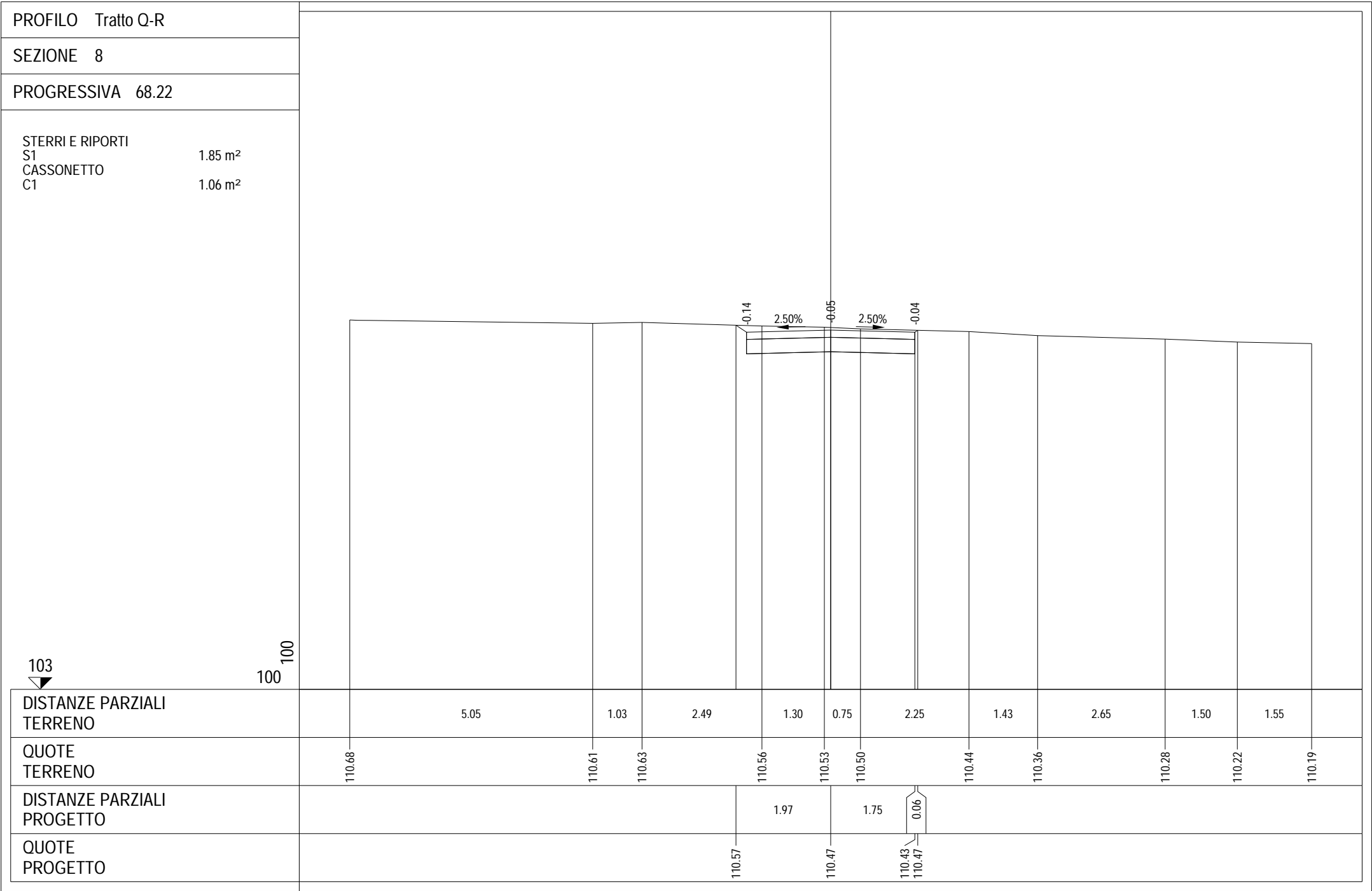


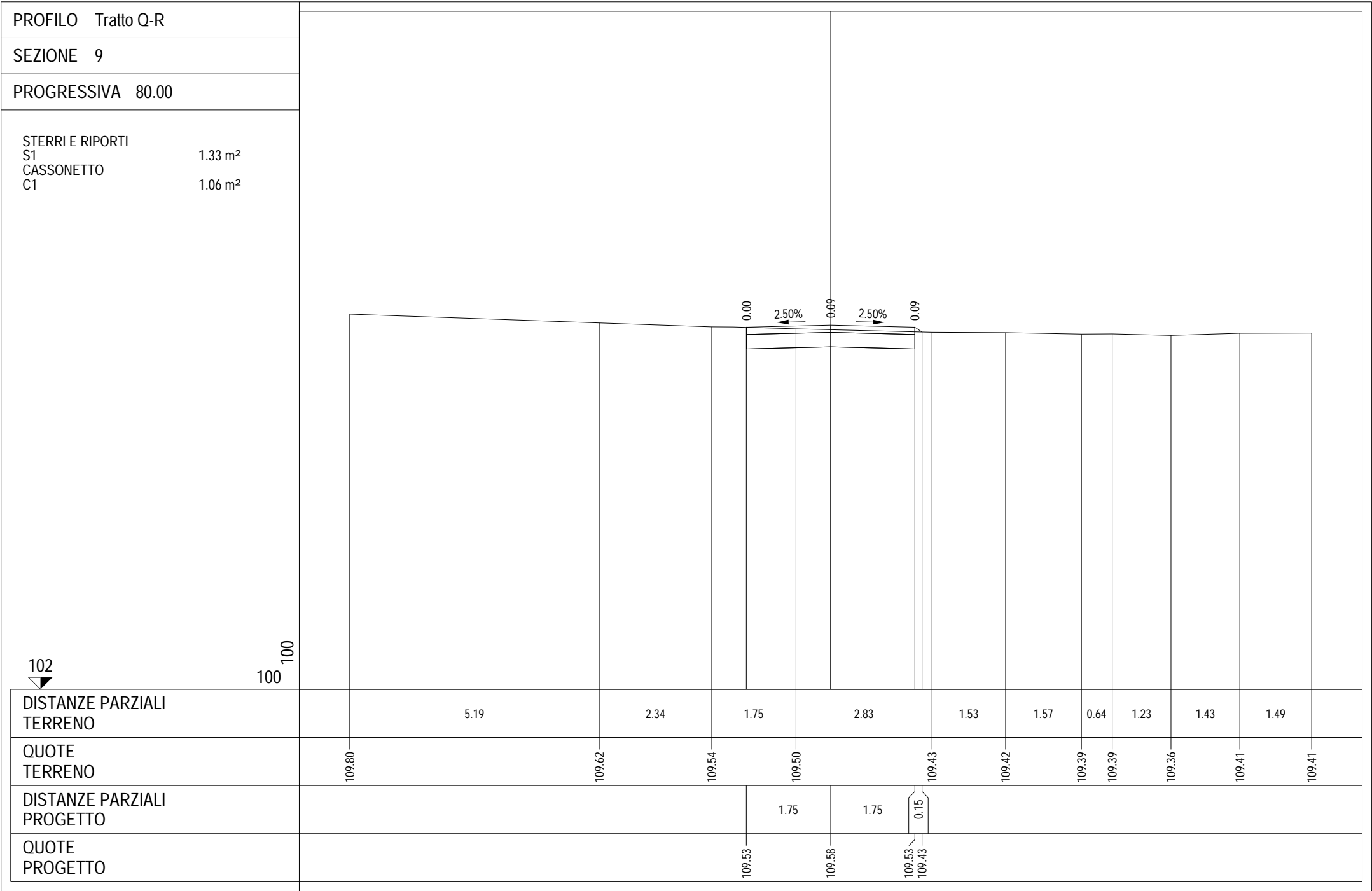


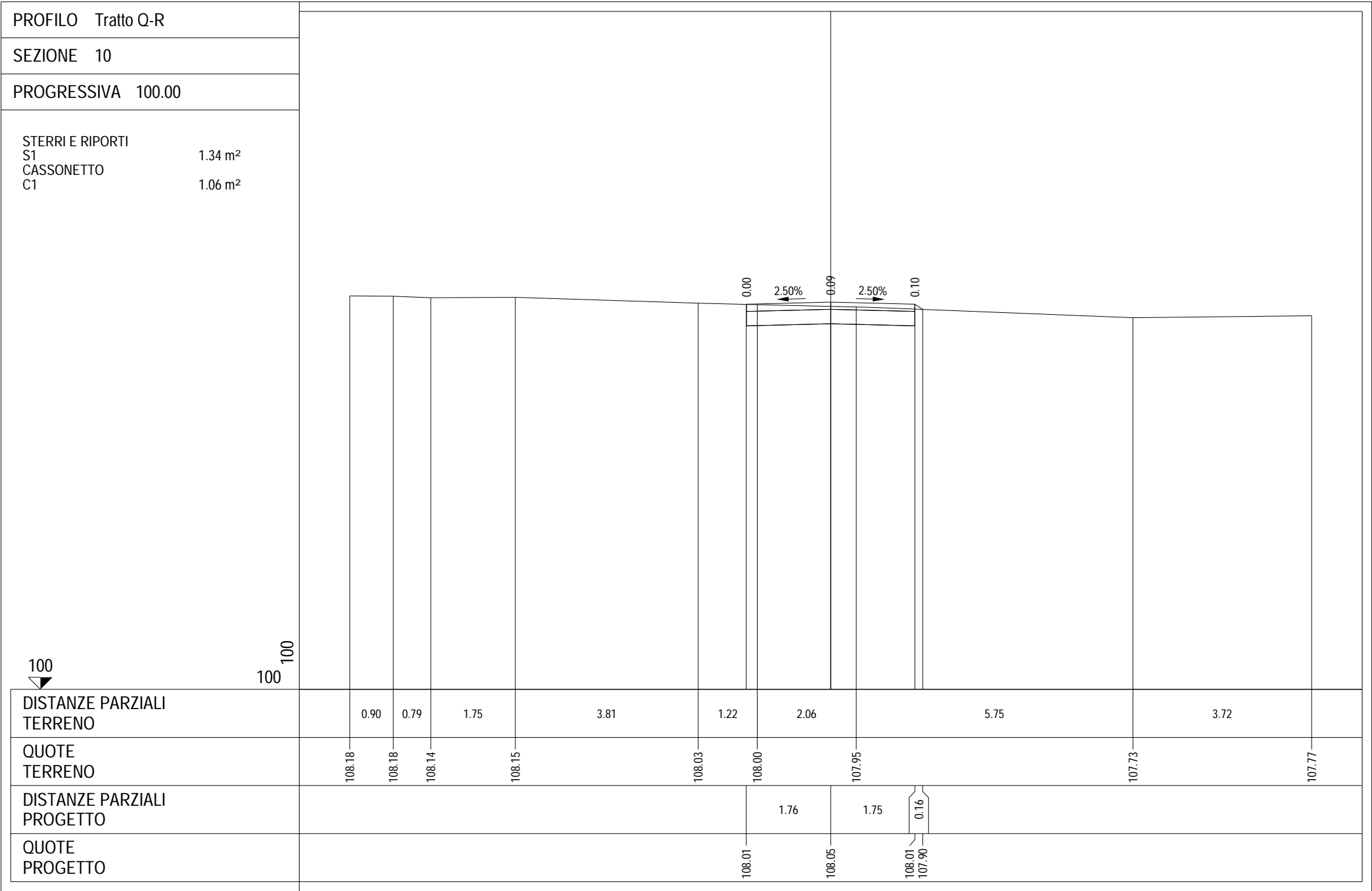




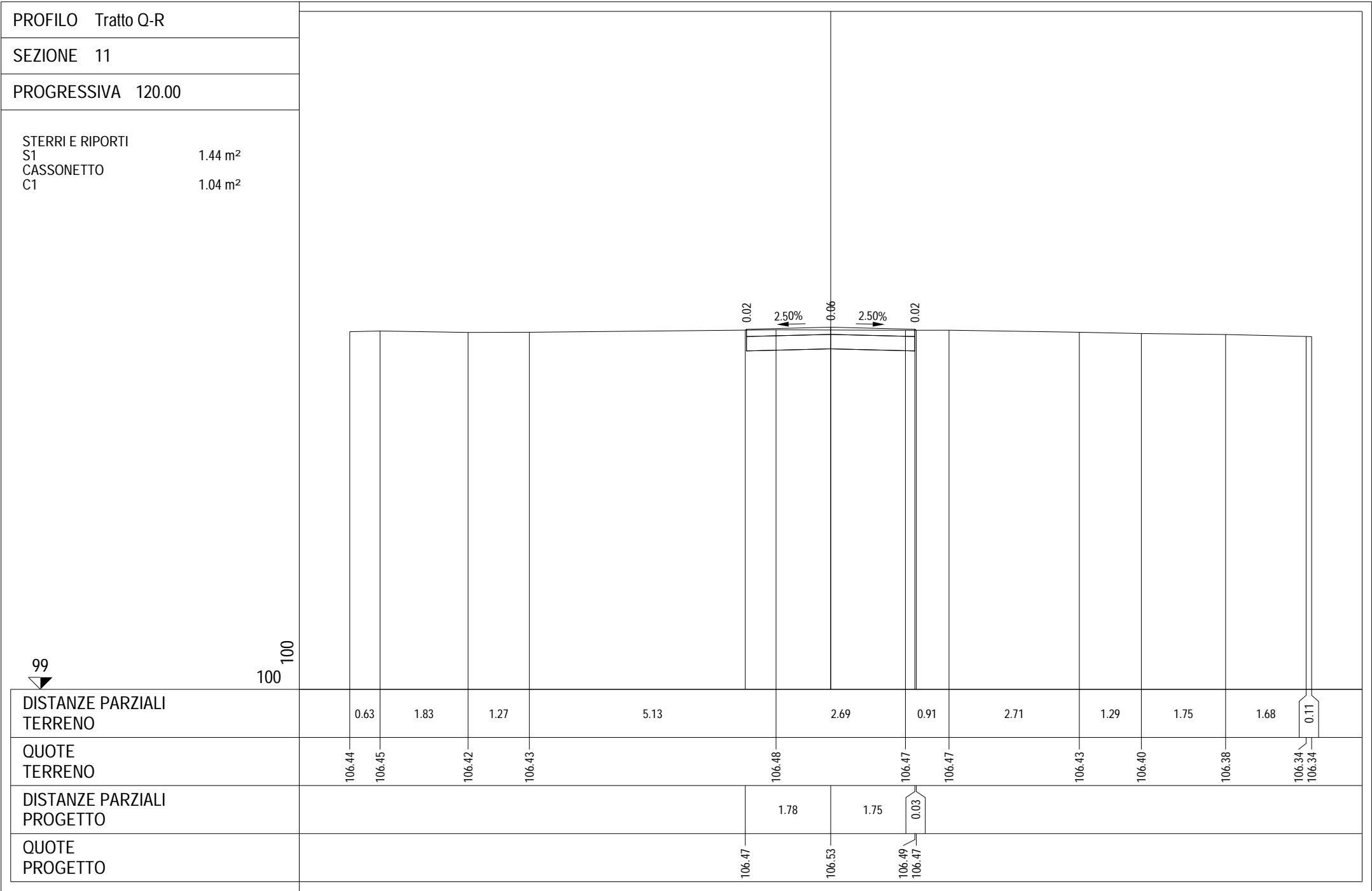


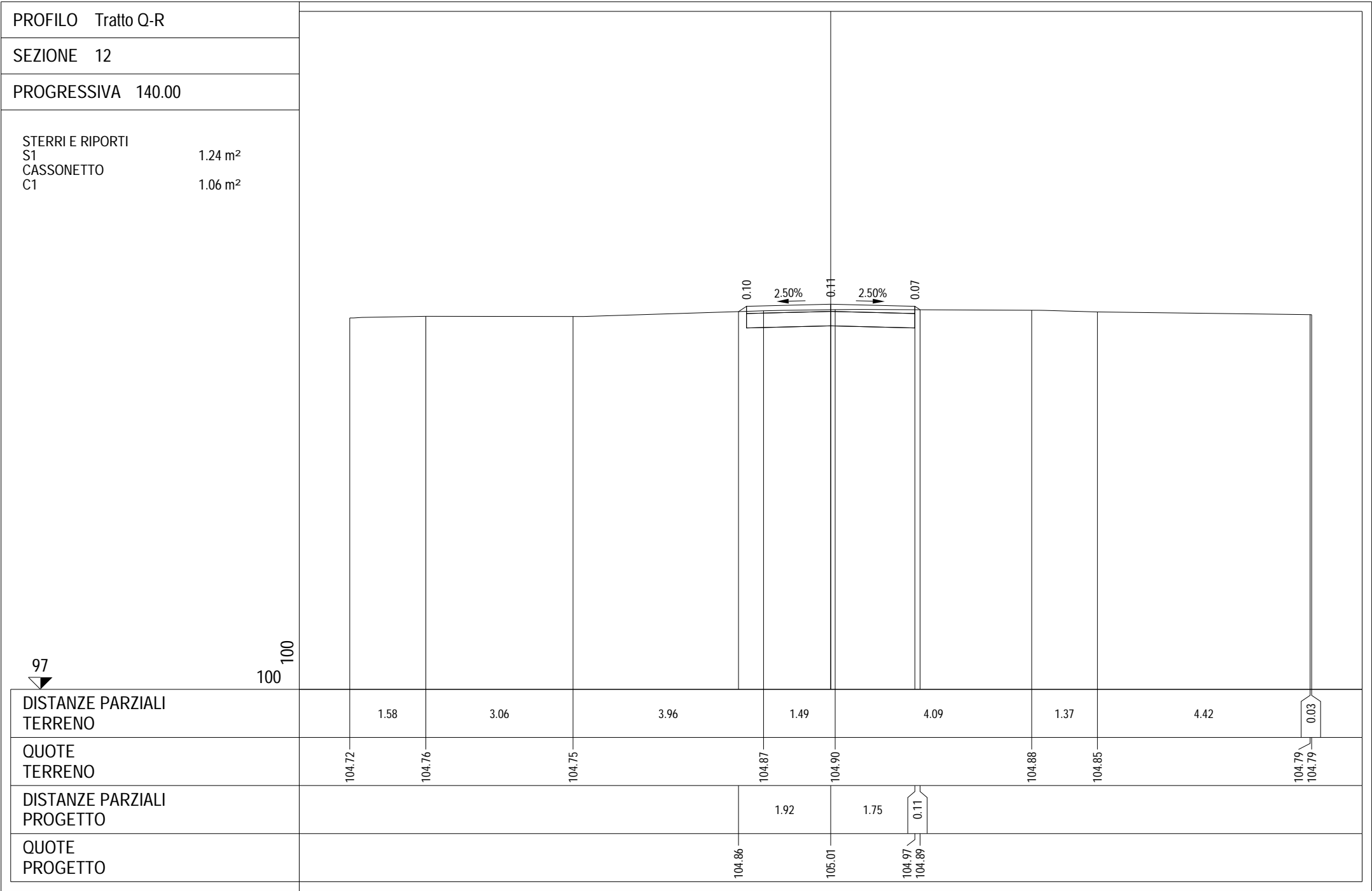






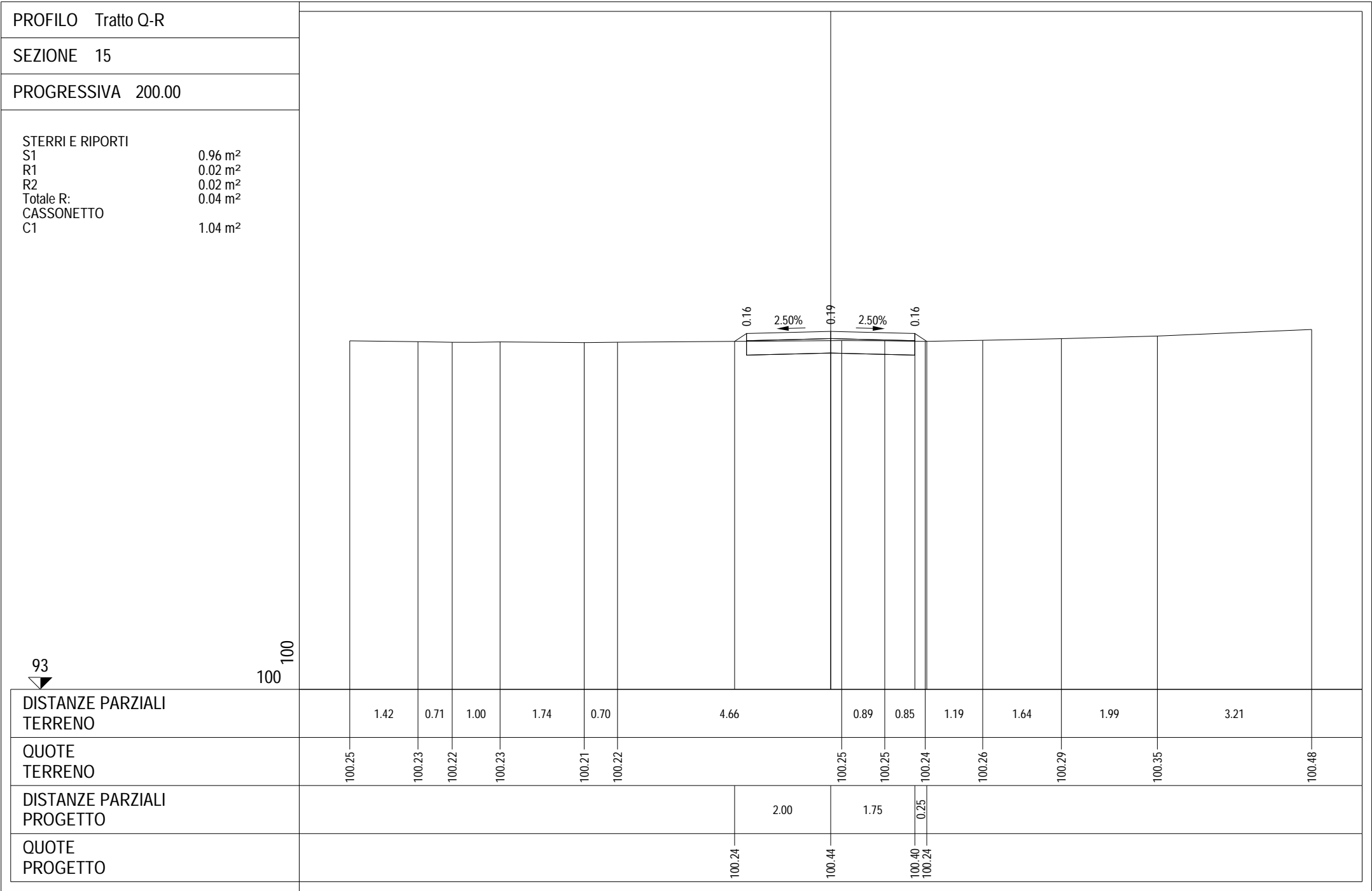
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QUOTE TERRENO	108.18	108.18	108.14	108.15		108.03	108.00	107.95	107.73	107.77
DISTANZE PARZIALI PROGETTO							1.76	1.75	0.16	
QUOTE PROGETTO						108.01	108.05	108.01	107.90	



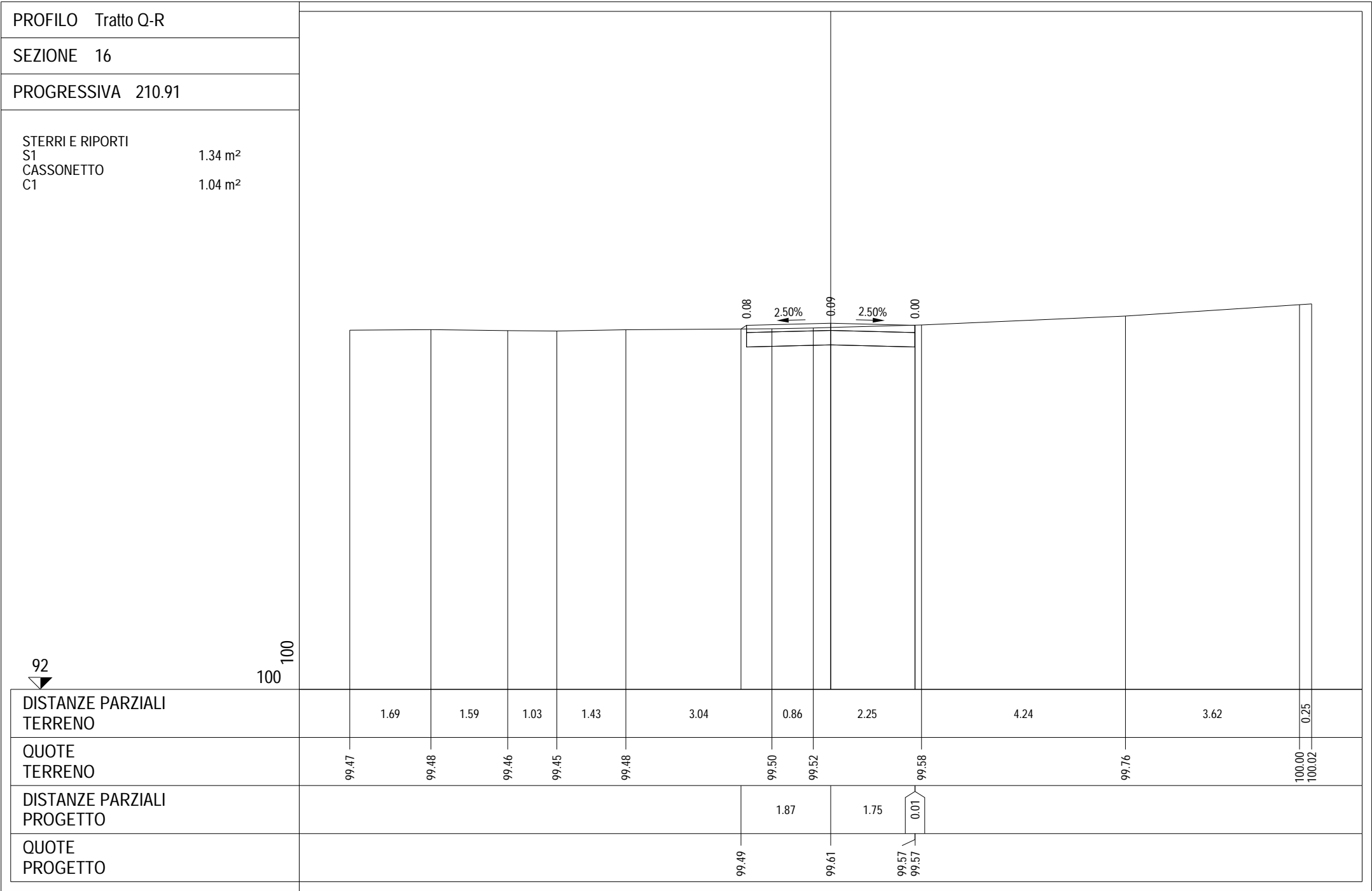


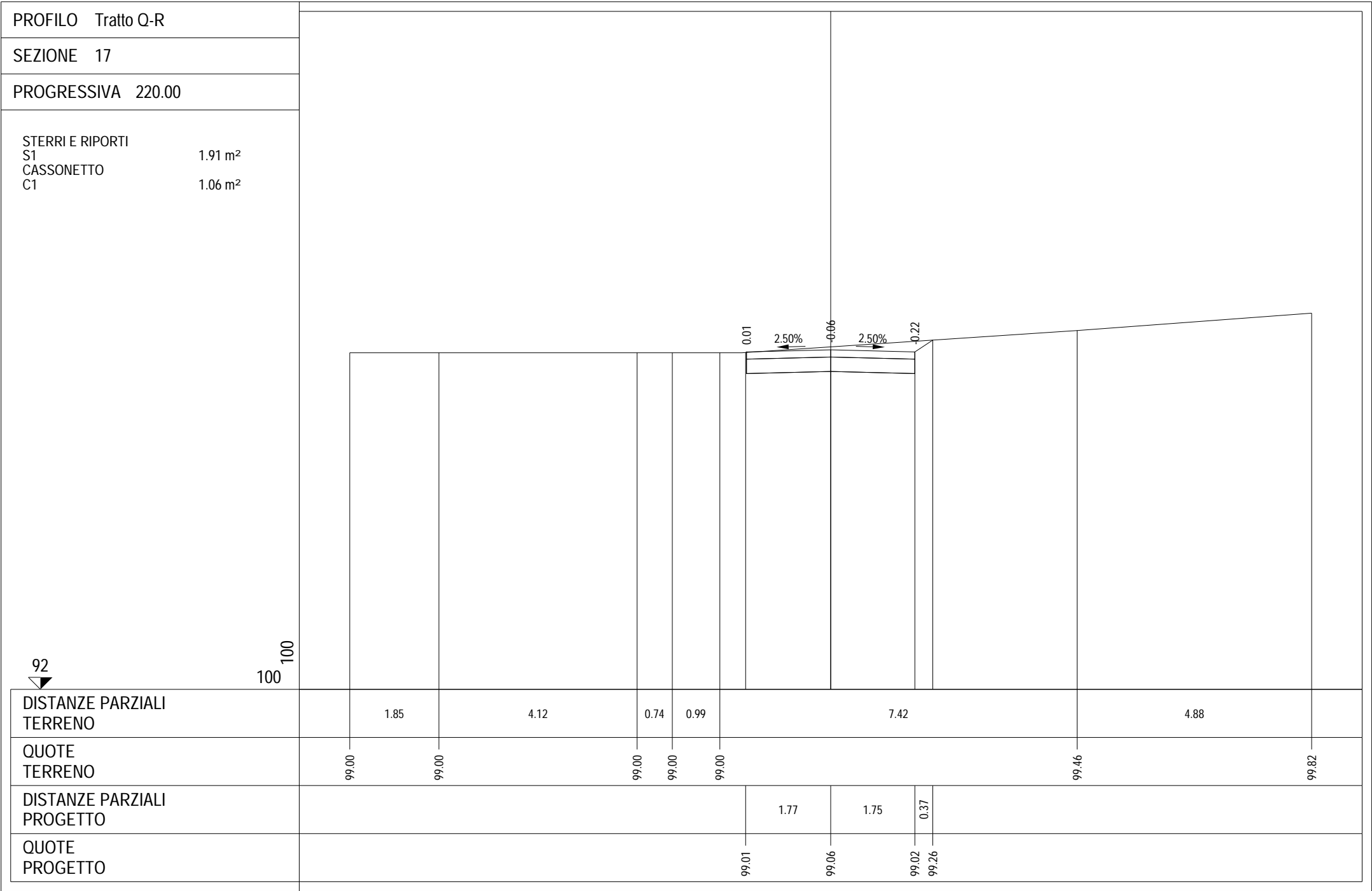
PROFILO	Tratto Q-R										
SEZIONE	13										
PROGRESSIVA	160.00										
<div>STERRI E RIPORTI</div> <div><div>S1</div><div>0.55 m²</div></div> <div><div>R1</div><div>0.05 m²</div></div> <div><div>R2</div><div>0.06 m²</div></div> <div><div>Totale R:</div><div>0.11 m²</div></div> <div><div>CASSONETTO</div><div></div></div> <div><div>C1</div><div>1.04 m²</div></div>											
<div><div><div><div><div></div><div>96</div></div><div><div></div><div>100</div></div></div><div><div></div><div>100</div></div></div><div><div><div><div><div></div><div>103.06</div></div><div><div></div><div>103.08</div></div><div><div></div><div>103.09</div></div><div><div></div><div>103.11</div></div><div><div></div><div>103.17</div></div><div><div></div><div>103.18</div></div><div><div></div><div>103.17</div></div><div><div></div><div>103.09</div></div><div><div></div><div>103.04</div></div></div><div><div><div><div><div></div><div>1.31</div></div><div><div></div><div>0.72</div></div><div><div></div><div>1.28</div></div><div><div></div><div>3.59</div></div><div><div></div><div>0.97</div></div><div><div></div><div>6.04</div></div><div><div></div><div>3.58</div></div><div><div></div><div>2.51</div></div></div><div><div><div><div><div></div><div>0.40</div></div><div><div></div><div>1.75</div></div><div><div></div><div>1.75</div></div><div><div></div><div>0.41</div></div></div><div><div><div><div><div></div><div>103.18</div></div><div><div></div><div>103.44</div></div><div><div></div><div>103.49</div></div><div><div></div><div>103.44</div></div><div><div></div><div>103.17</div></div></div></div></div><div><div><div><div><div></div><div>0.27</div></div><div><div></div><div>2.50%</div></div><div><div></div><div>0.31</div></div><div><div></div><div>2.50%</div></div><div><div></div><div>0.27</div></div></div></div></div></div></div></div></div></div></div></div>											
DISTANZE PARZIALI TERRENO	<div><div>1.31</div><div>0.72</div><div>1.28</div><div>3.59</div><div>0.97</div><div>6.04</div><div>3.58</div><div>2.51</div></div>										
QUOTE TERRENO	<div><div>103.06</div><div>103.08</div><div>103.09</div><div>103.11</div><div>103.17</div><div>103.18</div><div>103.17</div><div>103.09</div><div>103.04</div></div>										
DISTANZE PARZIALI PROGETTO	<div><div></div><div>0.40</div><div>1.75</div><div>1.75</div><div>0.41</div><div></div></div>										
QUOTE PROGETTO	<div><div>103.18</div><div>103.44</div><div>103.49</div><div>103.44</div><div>103.17</div><div></div></div>										

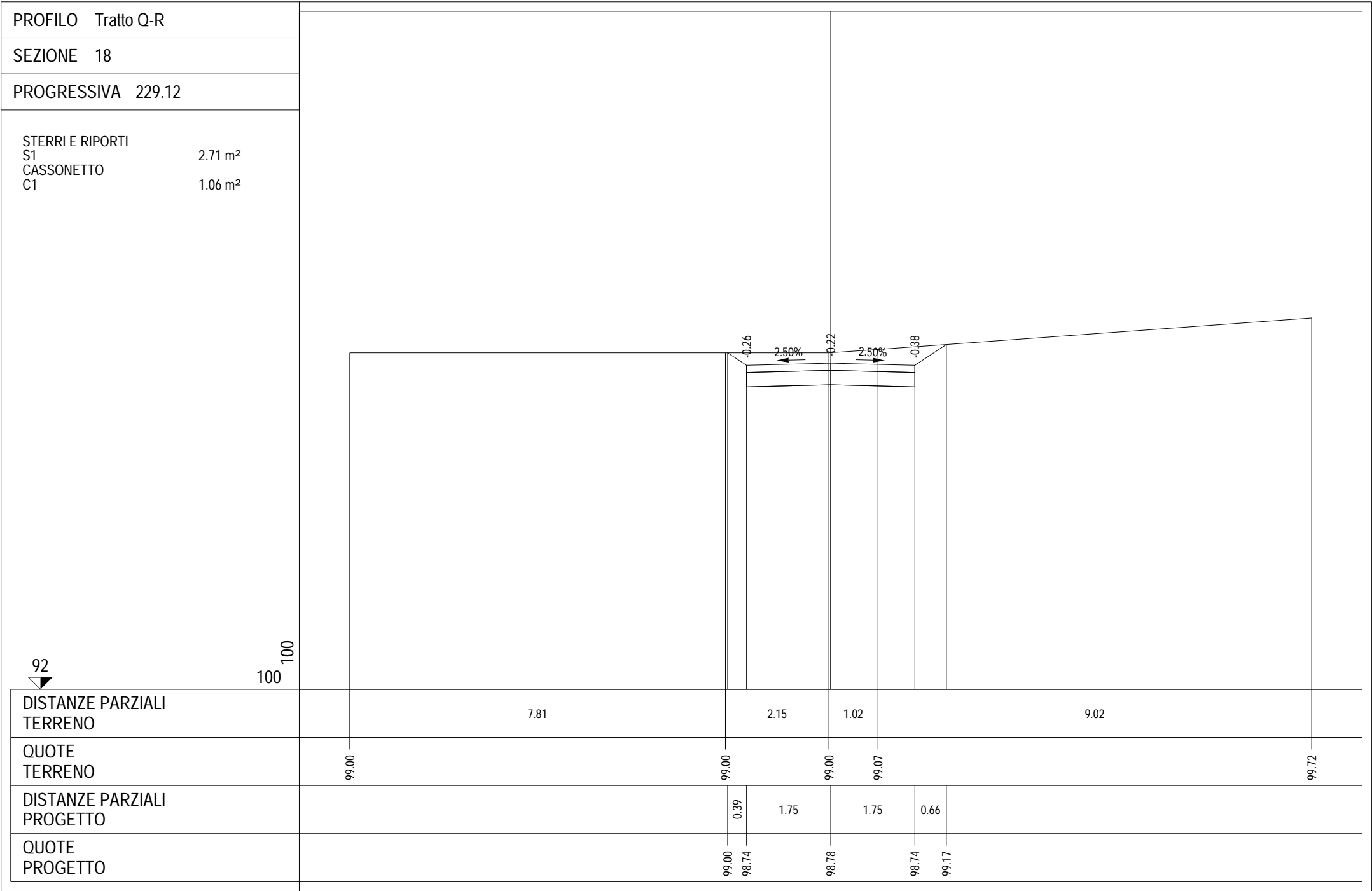






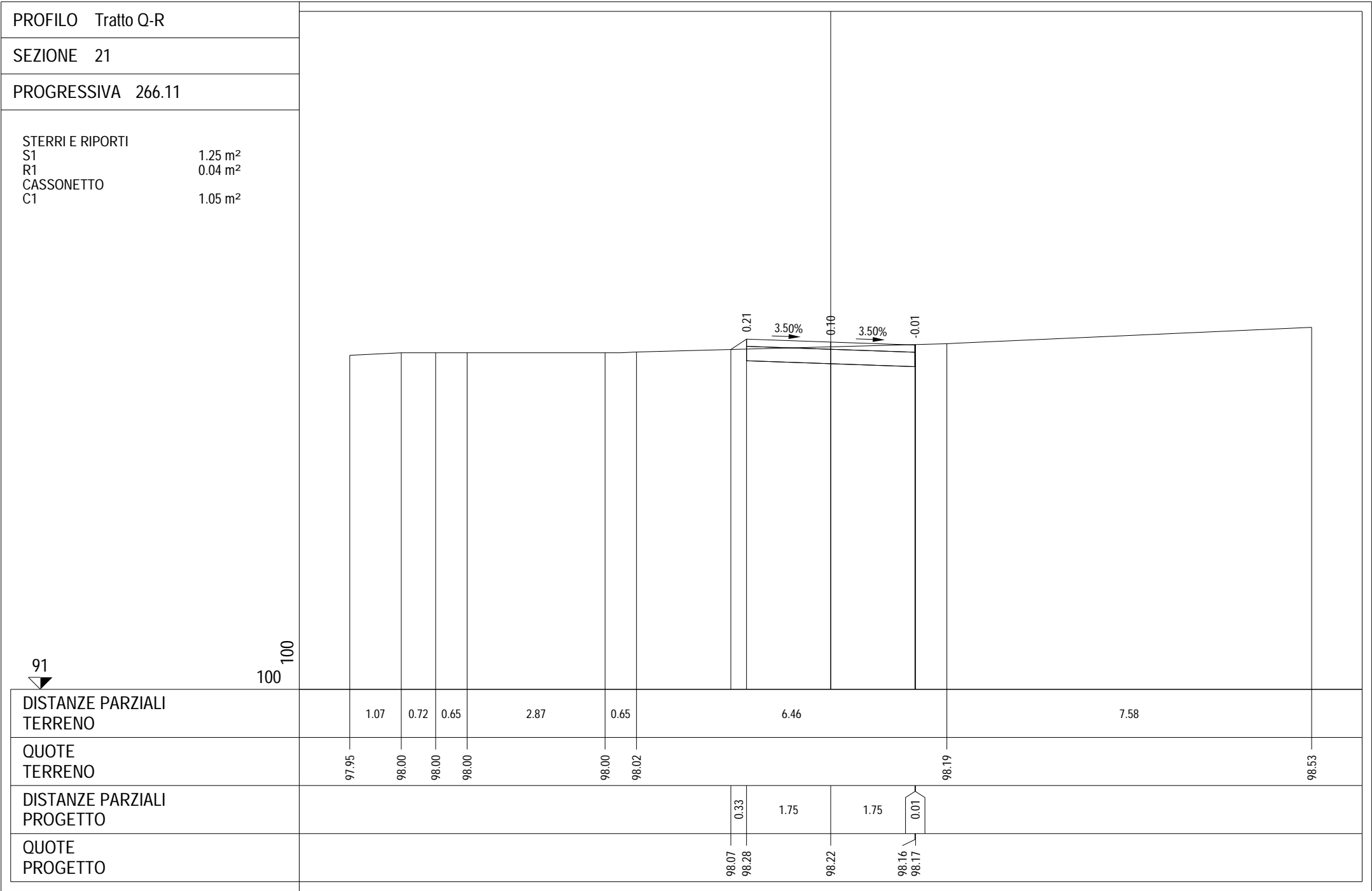


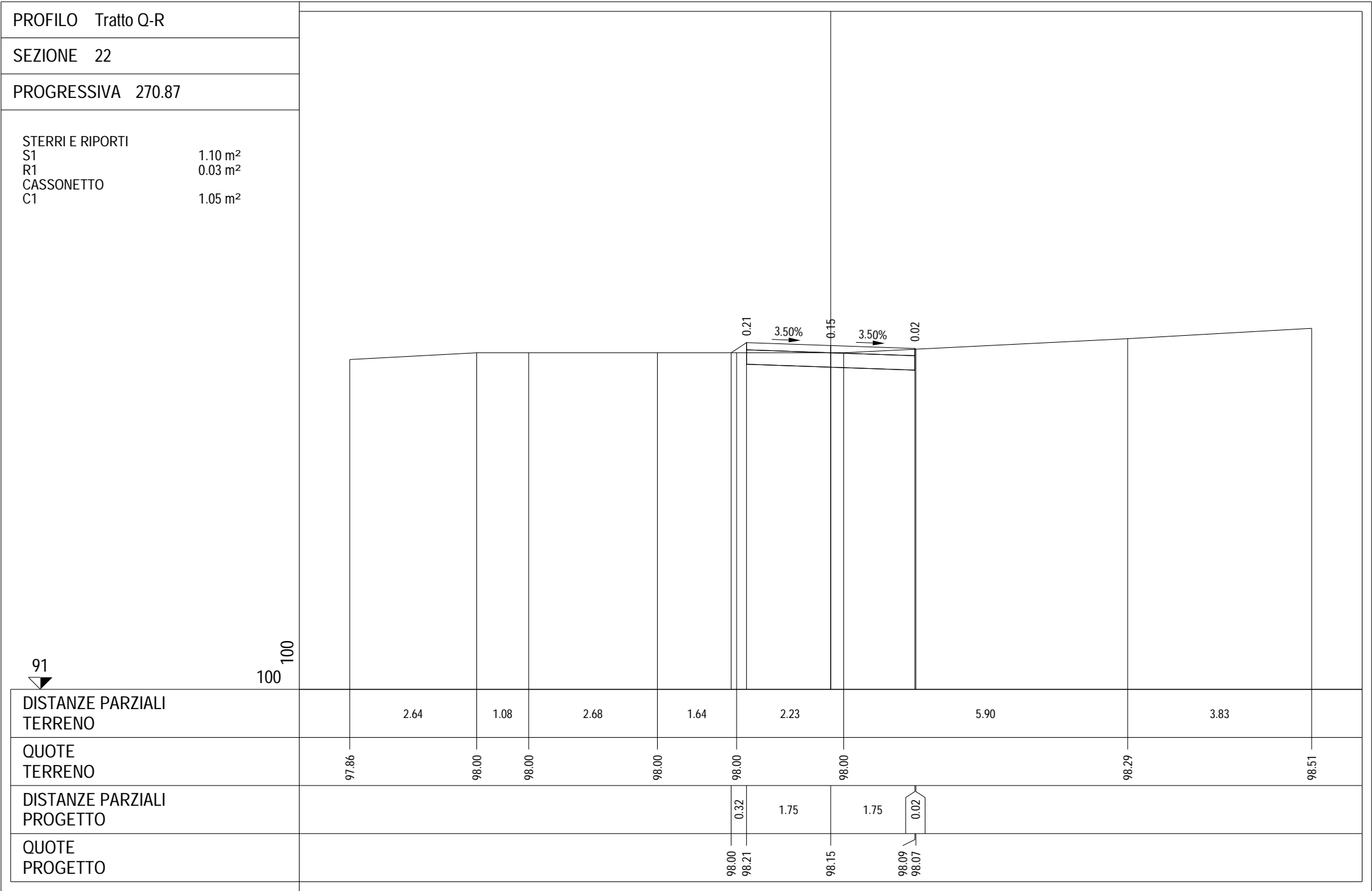


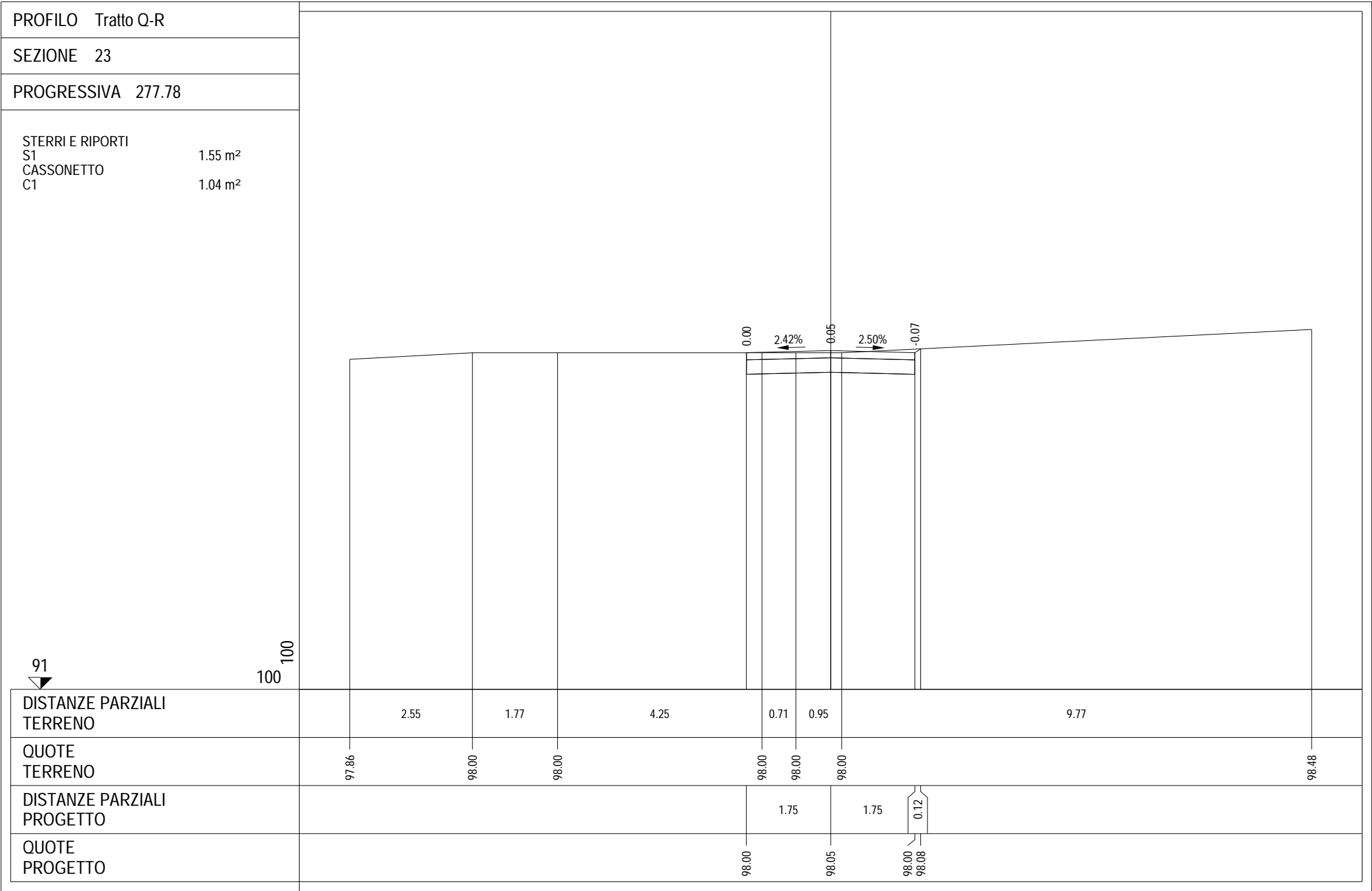




PROFILO	Tratto Q-R
SEZIONE	20
PROGRESSIVA	261.35
<div>STERRI E RIPORTI</div> <div>S11.83 m²</div> <div>CASSONETTO</div> <div>C11.05 m²</div>	
<p>The profile shows a road cross-section with a 3.50% slope. Key elevation points are marked: 98.02, 98.30, 98.29, 98.40, 98.23, 98.40, 98.41, 98.43, and 98.56. Distances are indicated: 11.03, 1.84, 1.75, 0.25, 3.19, 0.67, and 5.11. A vertical scale bar shows 0, 50, and 100 units.</p>	
DISTANZE PARZIALI TERRENO	11.033.190.675.11
QUOTE TERRENO	98.0298.4098.4198.4398.56
DISTANZE PARZIALI PROGETTO	1.841.750.25
QUOTE PROGETTO	98.3098.2998.2398.40

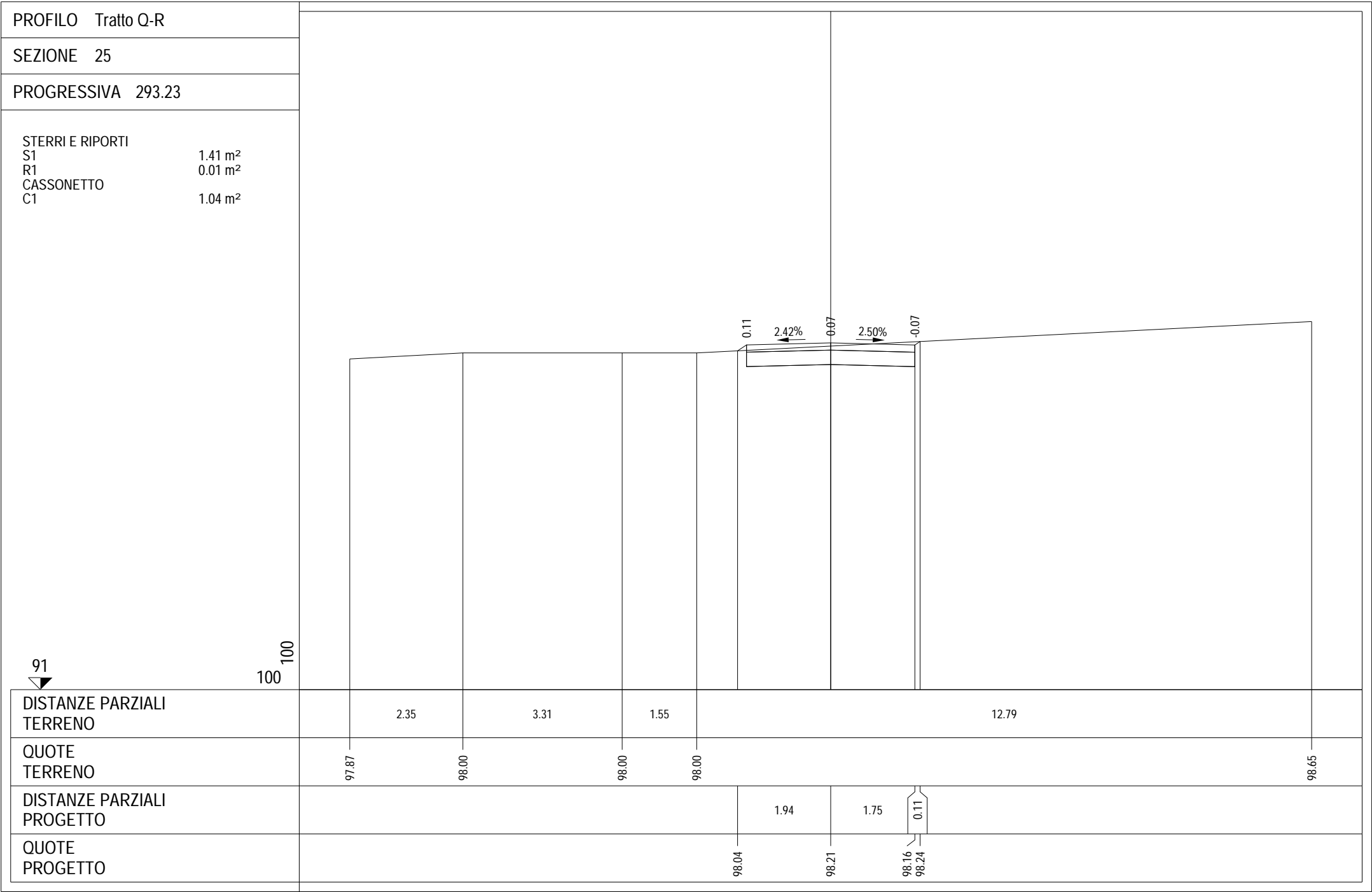


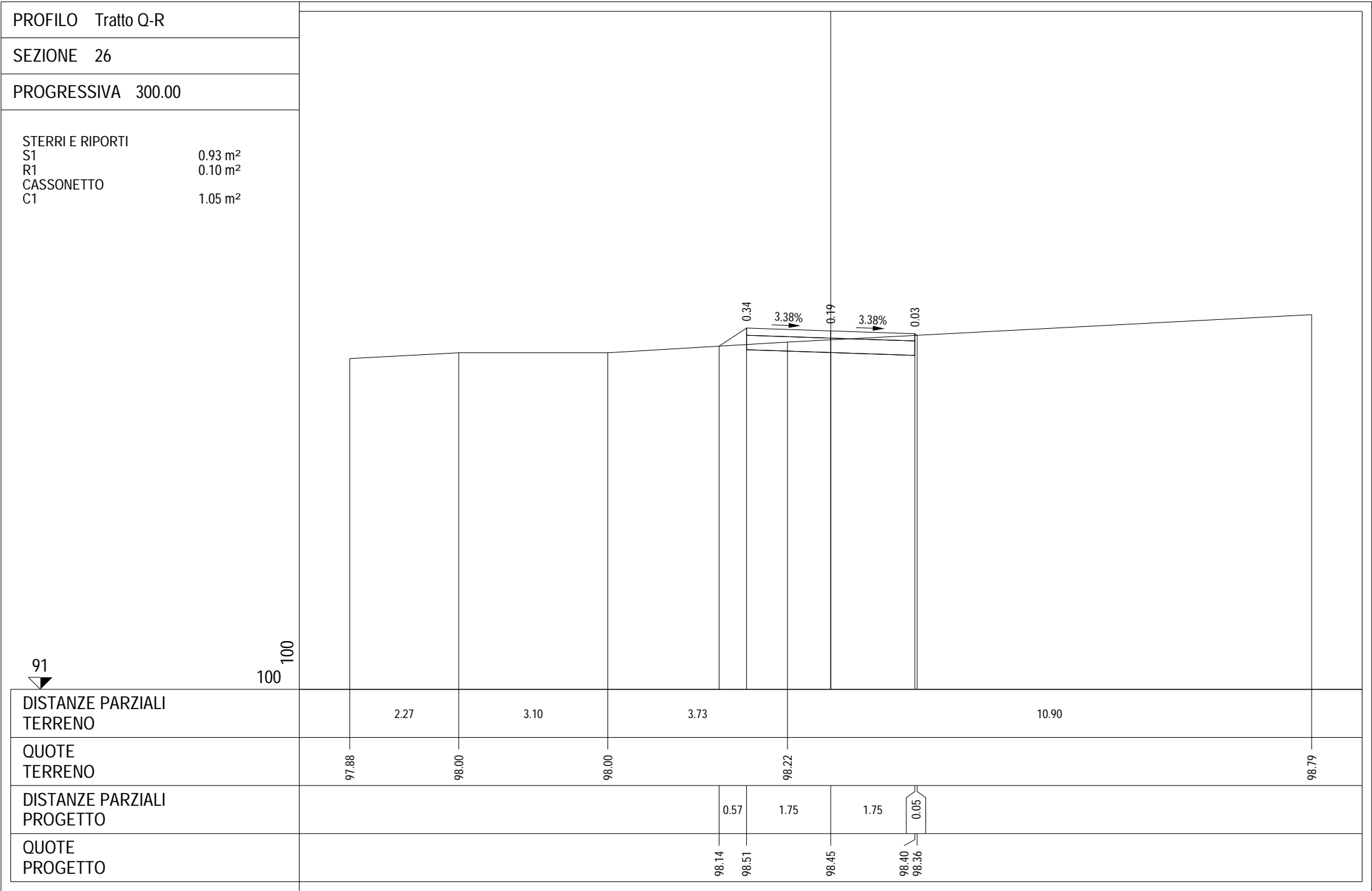




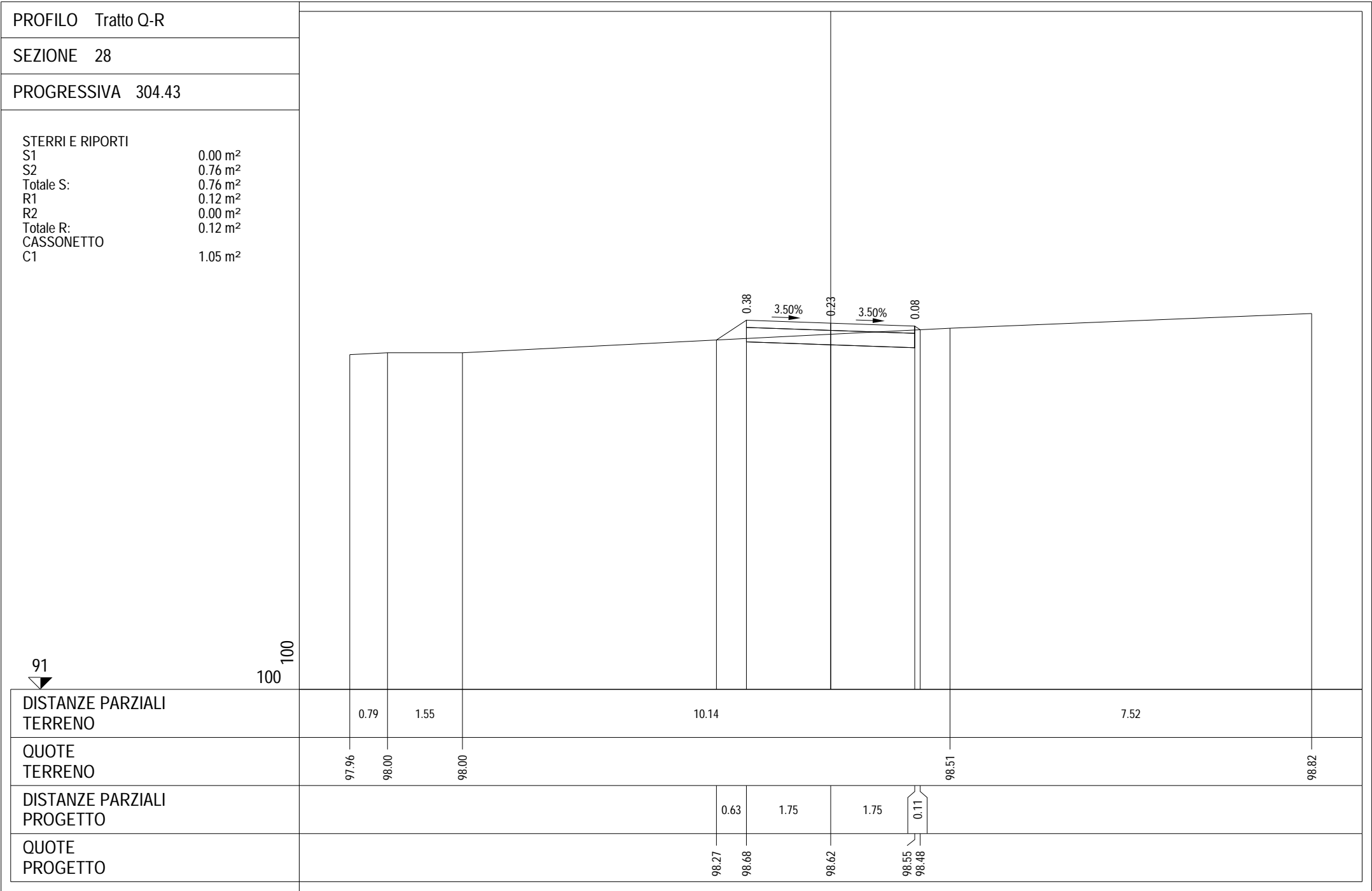


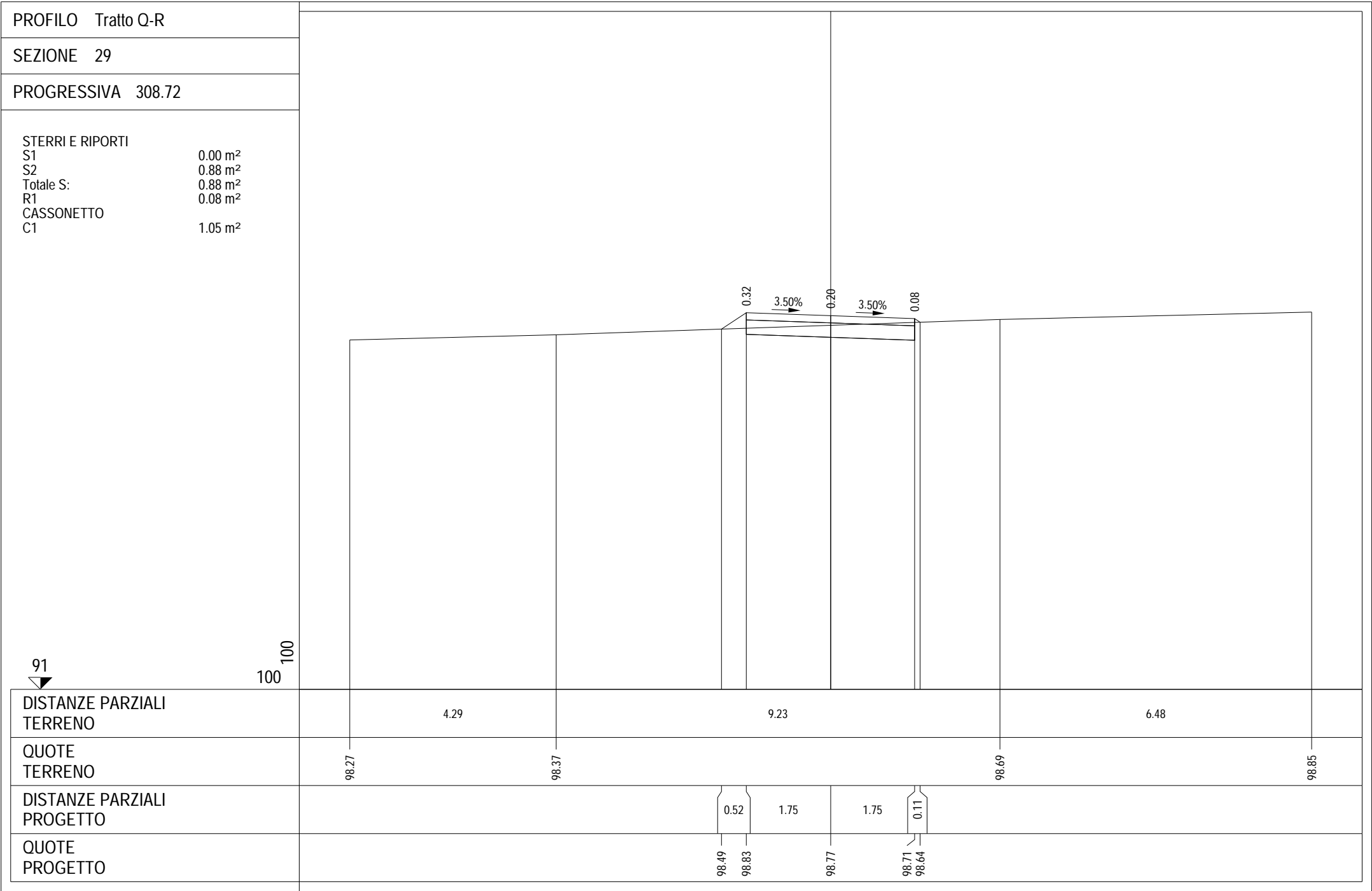


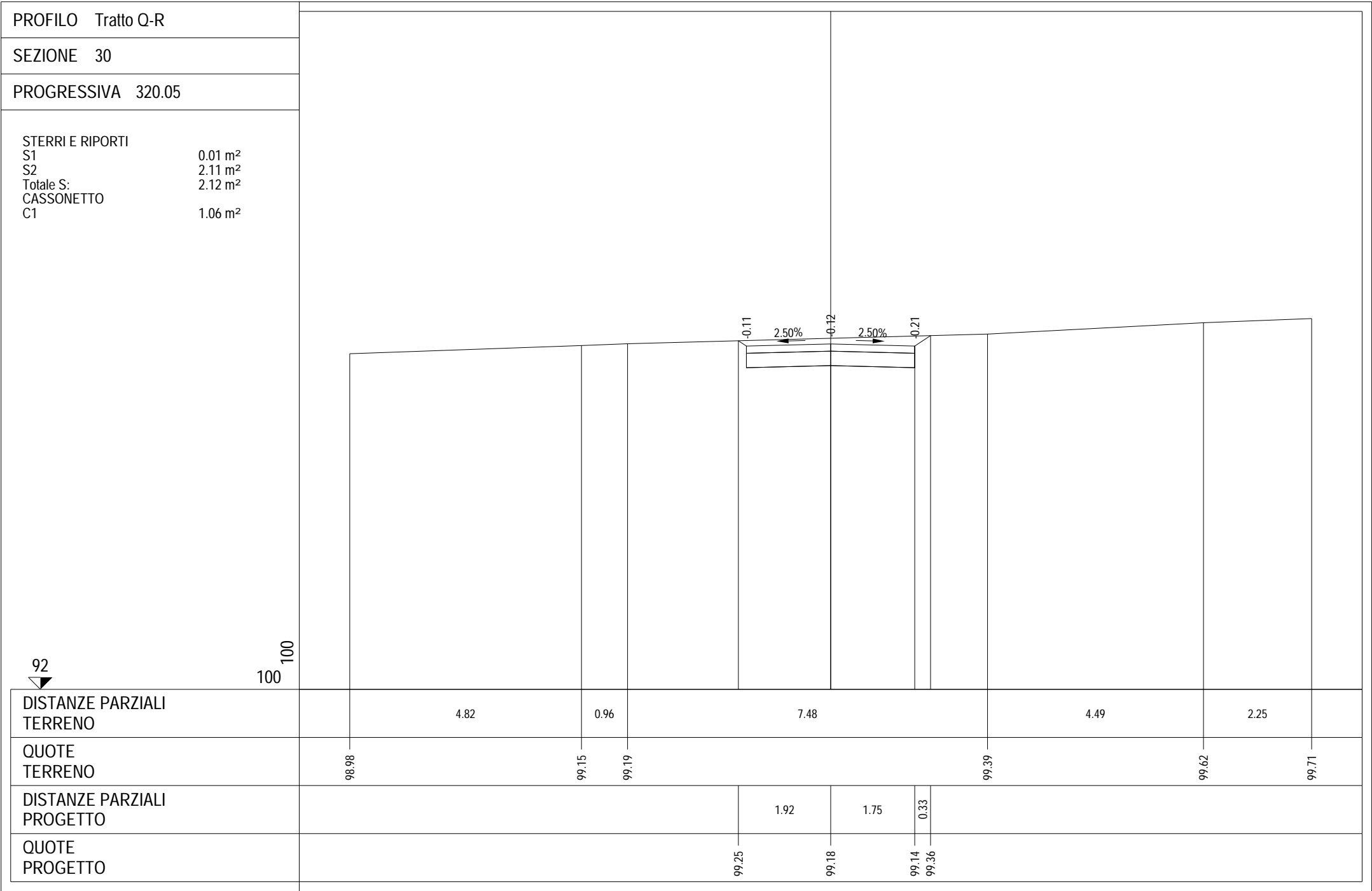


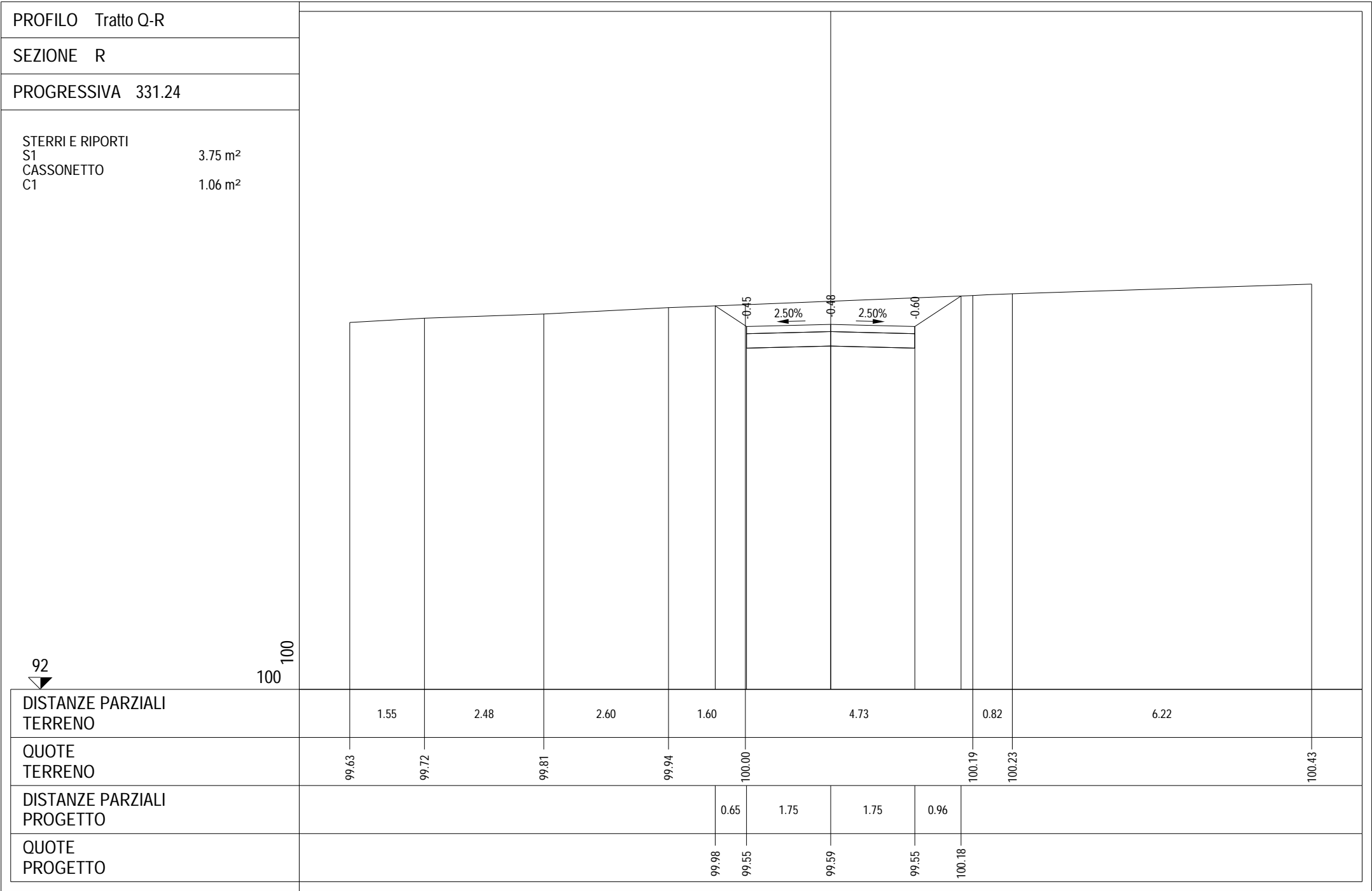














		CALCOLO DELLE AREE		Foglio n. 1	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
Q 0.00	R1	(-1.75--2.10)x(110.61+110.64)/2 (-2.10--1.75)x(110.64+110.87)/2	38.72 -38.76	0.04	
Q 0.00	S1	(-0.13--1.75)x(110.46+110.61)/2 (-1.75--0.13)x(110.42+110.46)/2	179.07 -178.91		
Q 0.00	R2	(0.00-1.26)x(110.46+110.43)/2 (-0.13-0.00)x(110.46+110.46)/2 (1.26--0.13)x(110.33+110.46)/2	-139.16 -14.36 153.45	0.16	
Q 0.00	R3	(2.77-1.26)x(110.20+110.33)/2 (1.75-2.77)x(110.87+110.20)/2 (1.26-1.75)x(110.43+110.42)/2	166.50 -112.75 -54.11	0.07	
2 20.00	R1	(-1.75--2.00)x(110.88+110.90)/2 (-2.00--1.75)x(110.90+111.06)/2	27.72 -27.75	0.36	
2 20.00	S1	(-1.75--0.13)x(110.61+110.65)/2 (-0.13--1.75)x(110.74+110.88)/2	-179.22 179.51	0.03	
2 20.00	S2	(1.26--0.13)x(110.62+110.74)/2 (0.00-1.26)x(110.66+110.62)/2 (-0.13-0.00)x(110.65+110.66)/2	153.85 -139.41 -14.39	0.29	
2 20.00	R2	(1.26-1.75)x(110.62+110.61)/2 (1.54-1.26)x(110.60+110.62)/2 (1.75-1.54)x(110.58+110.60)/2	-54.20 30.97 23.22	0.05	
2 20.00	R3	(2.58-1.75)x(110.52+110.58)/2 (1.75-2.58)x(111.06+110.52)/2	91.76 -91.96	0.01	
3 40.00	S1	(-1.81--1.75)x(111.29+111.25)/2 (-1.75--1.81)x(111.29+111.29)/2	-6.68 6.68	0.20	
3 40.00	S2	(0.00-1.26)x(110.85+110.82)/2 (-1.75-0.00)x(110.80+110.85)/2 (1.26--1.75)x(111.06+111.29)/2	-139.65 -193.94 334.64	1.05	
3 40.00	S3	(1.75-1.26)x(111.02+111.06)/2 (1.26-1.75)x(110.82+110.80)/2	54.41 -54.30	0.11	
3 40.00	R1	(2.07-1.75)x(111.00+111.02)/2 (2.14-2.07)x(110.99+111.00)/2 (1.75-2.14)x(111.25+110.99)/2	35.52 7.77 -43.34	0.05	
4 42.57	S1	(-1.16--1.82)x(111.28+111.33)/2 (1.75--1.16)x(111.06+111.28)/2 (0.00-1.75)x(110.87+110.83)/2 (-1.75-0.00)x(110.83+110.87)/2 (-1.82--1.75)x(111.33+111.28)/2	73.46 323.50 -193.99 -193.99 -7.79	1.19	
4 42.57	R1	(1.85-1.75)x(111.06+111.06)/2 (2.12-1.85)x(111.03+111.06)/2 (1.75-2.12)x(111.28+111.03)/2	11.11 29.98 -41.13	0.04	
5 50.01	S1	(0.00-1.75)x(110.85+110.79)/2 (-1.75-0.00)x(110.91+110.85)/2 (-2.08--1.75)x(111.58+111.36)/2 (-1.84--2.08)x(111.56+111.58)/2 (1.75--1.84)x(111.25+111.56)/2	-193.94 -194.04 -36.79 26.78 399.94	1.95	
5 50.01	S2	(1.76-1.75)x(111.25+111.25)/2 (1.75-1.76)x(111.24+111.25)/2	1.11 -1.11		
6 55.42	S1	(-1.23--2.40)x(111.56+111.66)/2 (1.98--1.23)x(111.26+111.56)/2 (1.75-1.98)x(111.11+111.26)/2 (0.00-1.75)x(110.72+110.66)/2 (-1.75-0.00)x(110.78+110.72)/2 (-2.40--1.75)x(111.66+111.23)/2	130.58 357.63 -25.57 -193.71 -193.81 -72.44	2.68	
7 60.82	S1	(-2.10--2.17)x(111.28+111.28)/2 (1.42--2.10)x(111.07+111.28)/2 (1.69-1.42)x(111.05+111.07)/2 (1.99-1.69)x(111.04+111.05)/2 (1.75-1.99)x(110.88+111.04)/2 (0.00-1.75)x(110.49+110.43)/2 (-1.75-0.00)x(110.55+110.49)/2 (-2.17--1.75)x(111.28+111.00)/2	7.79 391.34 29.99 33.31 -26.63 -193.31 -193.41 -46.68	2.40	
8 68.22	S1	(-1.43--1.97)x(110.56+110.57)/2 (-0.13--1.43)x(110.53+110.56)/2 (0.62--0.13)x(110.50+110.53)/2 (1.81-0.62)x(110.47+110.50)/2 (1.75-1.81)x(110.43+110.47)/2 (0.00-1.75)x(110.02+109.98)/2 (-1.75-0.00)x(109.98+110.02)/2 (-1.97--1.75)x(110.57+110.43)/2	59.71 143.71 82.89 131.48 -6.63 -192.50 -192.50 -24.31	1.85	
9 80.00	S1	(-0.72--1.75)x(109.50+109.53)/2 (1.75--0.72)x(109.44+109.50)/2 (0.00-1.75)x(109.13+109.08)/2 (-1.75-0.00)x(109.08+109.13)/2	112.80 270.39 -190.93 -190.93	1.33	
10 100.00	S1	(-1.53--1.75)x(108.00+108.01)/2 (0.53--1.53)x(107.95+108.00)/2 (0.68-0.53)x(107.95+107.95)/2 (1.00-0.68)x(107.94+107.95)/2 (1.75-1.00)x(107.91+107.94)/2 (0.00-1.75)x(107.60+107.56)/2 (-1.75-0.00)x(107.56+107.60)/2	23.76 222.43 16.19 34.54 80.94 -188.26 -188.26	1.34	
11 120.00	S1	(-1.14--1.75)x(106.48+106.47)/2 (1.55--1.14)x(106.47+106.48)/2 (1.75-1.55)x(106.47+106.47)/2 (0.00-1.75)x(106.08+106.04)/2 (-1.75-0.00)x(106.04+106.08)/2	64.95 286.42 21.29 -185.61 -185.61		
A RIPORTARE mq			1.44		

		CALCOLO DELLE AREE		Foglio n. 2	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTO mq			1.44		
12 140.00	S1	$(-1.40--1.75) \times (104.87+104.86) / 2$ $(-1.00--1.40) \times (104.88+104.87) / 2$ $(0.09--1.00) \times (104.90+104.88) / 2$ $(0.64-0.09) \times (104.90+104.90) / 2$ $(1.75-0.64) \times (104.90+104.90) / 2$ $(0.00-1.75) \times (104.56+104.52) / 2$ $(-1.75-0.00) \times (104.52+104.56) / 2$	36.70 41.95 114.33 57.70 116.44 -182.94 -182.94	1.44	
13 160.00	R1	$(-2.13--2.15) \times (103.18+103.18) / 2$ $(-1.75--2.13) \times (103.18+103.18) / 2$ $(-2.15--1.75) \times (103.18+103.44) / 2$	2.06 39.21 -41.32	1.24	
13 160.00	S1	$(1.75--1.75) \times (103.17+103.18) / 2$ $(0.00-1.75) \times (103.04+102.99) / 2$ $(-1.75-0.00) \times (102.99+103.04) / 2$	361.11 -180.28 -180.28	0.05	
13 160.00	R2	$(2.16-1.75) \times (103.17+103.17) / 2$ $(1.75-2.16) \times (103.44+103.17) / 2$	42.30 -42.36	0.55	
14 180.00	R1	$(-1.75--2.21) \times (101.63+101.62) / 2$ $(-2.21--1.75) \times (101.62+101.92) / 2$	46.75 -46.81	0.06	
14 180.00	S1	$(-1.29--1.75) \times (101.64+101.63) / 2$ $(-0.07--1.29) \times (101.65+101.64) / 2$ $(1.17--0.07) \times (101.64+101.65) / 2$ $(1.75-1.17) \times (101.63+101.64) / 2$ $(0.00-1.75) \times (101.52+101.47) / 2$ $(-1.75-0.00) \times (101.47+101.52) / 2$	46.75 124.01 126.04 58.95 -177.62 -177.62	0.06	
14 180.00	R2	$(2.20-1.75) \times (101.63+101.63) / 2$ $(1.75-2.20) \times (101.92+101.63) / 2$	45.73 -45.80	0.51	
15 200.00	R1	$(-1.75--2.00) \times (100.24+100.24) / 2$ $(-2.00--1.75) \times (100.24+100.40) / 2$	25.06 -25.08	0.07	
15 200.00	S1	$(0.23--1.75) \times (100.25+100.24) / 2$ $(1.12-0.23) \times (100.25+100.25) / 2$ $(1.75-1.12) \times (100.24+100.25) / 2$ $(0.00-1.75) \times (99.99+99.95) / 2$ $(-1.75-0.00) \times (99.95+99.99) / 2$	198.49 89.22 63.15 -174.95 -174.95	0.02	
15 200.00	R2	$(1.97-1.75) \times (100.24+100.24) / 2$ $(2.00-1.97) \times (100.24+100.24) / 2$ $(1.75-2.00) \times (100.40+100.24) / 2$	22.05 3.01 -25.08	0.96	
16 210.91	S1	$(-1.22--1.75) \times (99.50+99.50) / 2$ $(-0.36--1.22) \times (99.52+99.50) / 2$ $(0.22--0.36) \times (99.53+99.52) / 2$ $(1.75-0.22) \times (99.57+99.53) / 2$ $(0.00-1.75) \times (99.16+99.12) / 2$ $(-1.75-0.00) \times (99.12+99.16) / 2$	52.73 85.58 57.72 152.31 -173.50 -173.50	0.02	
17 220.00	S1	$(2.12--1.75) \times (99.26+99.01) / 2$ $(1.75-2.12) \times (99.02+99.26) / 2$ $(0.00-1.75) \times (98.61+98.57) / 2$ $(-1.75-0.00) \times (98.57+98.61) / 2$	383.65 -36.68 -172.53 -172.53	1.34	
18 229.12	S1	$(-0.04--2.14) \times (99.00+99.00) / 2$ $(0.98--0.04) \times (99.07+99.00) / 2$ $(2.41-0.98) \times (99.17+99.07) / 2$ $(1.75-2.41) \times (98.74+99.17) / 2$ $(0.00-1.75) \times (98.33+98.29) / 2$ $(-1.75-0.00) \times (98.29+98.33) / 2$ $(-2.14--1.75) \times (99.00+98.74) / 2$	207.90 101.02 141.74 -65.31 -172.04 -172.04 -38.56	1.91	
19 240.00	S1	$(-1.96--2.10) \times (98.82+98.81) / 2$ $(-1.78--1.96) \times (98.83+98.82) / 2$ $(0.88--1.78) \times (99.00+98.83) / 2$ $(2.55-0.88) \times (99.10+99.00) / 2$ $(1.75-2.55) \times (98.58+99.10) / 2$ $(0.00-1.75) \times (98.17+98.13) / 2$ $(-1.75-0.00) \times (98.13+98.17) / 2$ $(-2.10--1.75) \times (98.81+98.58) / 2$	13.83 17.79 263.11 165.41 -79.07 -171.76 -171.76 -34.54	2.71	
20 261.35	S1	$(1.03--1.75) \times (98.40+98.30) / 2$ $(2.00-1.03) \times (98.40+98.40) / 2$ $(1.75-2.00) \times (98.23+98.40) / 2$ $(0.00-1.75) \times (97.84+97.78) / 2$ $(-1.75-0.00) \times (97.91+97.84) / 2$	273.41 95.45 -24.58 -171.17 -171.28	3.01	
21 266.11	R1	$(-1.75--2.08) \times (98.08+98.07) / 2$ $(-2.08--1.75) \times (98.07+98.28) / 2$	32.36 -32.40	1.83	
21 266.11	S1	$(1.76--1.75) \times (98.17+98.08) / 2$ $(1.75-1.76) \times (98.16+98.17) / 2$ $(0.00-1.75) \times (97.77+97.71) / 2$ $(-1.75-0.00) \times (97.83+97.77) / 2$	344.42 -0.98 -171.04 -171.15	0.04	
22 270.87	R1	$(-1.96--2.07) \times (98.00+98.00) / 2$ $(-1.75--1.96) \times (98.00+98.00) / 2$ $(-2.07--1.75) \times (98.00+98.21) / 2$	10.78 20.58 -31.39	1.25	
22 270.87	S1	$(0.27--1.75) \times (98.00+98.00) / 2$ $(1.75-0.27) \times (98.07+98.00) / 2$ $(0.00-1.75) \times (97.70+97.64) / 2$ $(-1.75-0.00) \times (97.76+97.70) / 2$	197.96 145.09 -170.92 -171.03	0.03	
23 277.78	S1	$(-1.43--1.75) \times (98.00+98.00) / 2$ $(-1.41--1.43) \times (98.00+98.00) / 2$ $(-0.72--1.41) \times (98.00+98.00) / 2$ $(0.23--0.72) \times (98.00+98.00) / 2$ $(1.87-0.23) \times (98.08+98.00) / 2$ $(1.75-1.87) \times (98.00+98.08) / 2$ $(0.00-1.75) \times (97.60+97.55) / 2$	31.36 1.96 67.62 93.10 160.79 -11.76 -170.76	1.10	
A RIPORTARE mq			172.31		

		CALCOLO DELLE AREE		Foglio n. 3	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTO mq			172.31		
24 285.51	S1	$(-1.75-0.00) \times (97.55+97.60) / 2$ $(-1.77--1.75) \times (98.00+97.98) / 2$ $(-1.75--1.77) \times (98.00+98.00) / 2$	-170.76 -1.96 1.96	1.55	
24 285.51	S2	$(-0.55--1.75) \times (98.00+98.00) / 2$ $(1.97--0.55) \times (98.13+98.00) / 2$ $(1.75-1.97) \times (97.98+98.13) / 2$ $(0.00-1.75) \times (97.58+97.53) / 2$ $(-1.75-0.00) \times (97.53+97.58) / 2$	117.60 247.12 -21.57 -170.72 -170.72		
25 293.23	R1	$(-1.75--1.94) \times (98.05+98.04) / 2$ $(-1.94--1.75) \times (98.04+98.17) / 2$	18.63 -18.64	1.71	
25 293.23	S1	$(1.86--1.75) \times (98.24+98.05) / 2$ $(1.75-1.86) \times (98.16+98.24) / 2$ $(0.00-1.75) \times (97.76+97.71) / 2$ $(-1.75-0.00) \times (97.72+97.76) / 2$	354.30 -10.80 -171.04 -171.05	0.01	
26 300.00	R1	$(-1.75--2.32) \times (98.17+98.14) / 2$ $(-2.32--1.75) \times (98.14+98.51) / 2$	55.95 -56.05	1.41	
26 300.00	S1	$(-0.90--1.75) \times (98.22+98.17) / 2$ $(1.75--0.90) \times (98.36+98.22) / 2$ $(0.00-1.75) \times (98.00+97.95) / 2$ $(-1.75-0.00) \times (98.06+98.00) / 2$	83.47 260.47 -171.46 -171.55	0.10	
27 300.14	R1	$(-2.33--1.75) \times (98.14+98.52) / 2$ $(-1.75--2.33) \times (98.17+98.14) / 2$	-57.03 56.93	0.93	
27 300.14	S1	$(-0.74--1.75) \times (98.23+98.17) / 2$ $(1.75--0.74) \times (98.36+98.23) / 2$ $(0.00-1.75) \times (98.01+97.95) / 2$ $(-1.75-0.00) \times (98.07+98.01) / 2$	99.18 244.75 -171.47 -171.57	0.10	
28 304.43	R1	$(-2.38--1.75) \times (98.27+98.68) / 2$ $(-1.75--2.38) \times (98.30+98.27) / 2$	-62.04 61.92	0.89	
28 304.43	S2	$(1.75--1.75) \times (98.47+98.30) / 2$ $(0.00-1.75) \times (98.17+98.10) / 2$ $(-1.75-0.00) \times (98.23+98.17) / 2$	344.35 -171.74 -171.85	0.12	
29 308.72	R1	$(-1.75--2.27) \times (98.51+98.49) / 2$ $(-2.27--1.75) \times (98.49+98.83) / 2$	51.22 -51.30	0.76	
29 308.72	S2	$(1.75--1.75) \times (98.63+98.51) / 2$ $(0.00-1.75) \times (98.32+98.26) / 2$ $(-1.75-0.00) \times (98.38+98.32) / 2$	345.00 -172.01 -172.11	0.08	
30 320.05	S1	$(-1.92--1.75) \times (99.25+99.14) / 2$ $(-1.75--1.92) \times (99.25+99.25) / 2$	-16.86 16.87	0.88	
30 320.05	S2	$(2.08--1.75) \times (99.36+99.25) / 2$ $(1.75-2.08) \times (99.14+99.36) / 2$ $(0.00-1.75) \times (98.73+98.69) / 2$ $(-1.75-0.00) \times (98.69+98.73) / 2$	380.34 -32.75 -172.74 -172.74	0.01	
R 331.24	S1	$(-1.77--2.40) \times (100.00+99.98) / 2$ $(2.71--1.77) \times (100.18+100.00) / 2$ $(1.75-2.71) \times (99.55+100.18) / 2$ $(0.00-1.75) \times (99.14+99.10) / 2$ $(-1.75-0.00) \times (99.10+99.14) / 2$ $(-2.40--1.75) \times (99.98+99.55) / 2$	62.99 448.40 -95.87 -173.46 -173.46 -64.85	2.11	
				3.75	
Il Direttore dei Lavori		L'Impresa			

		COMPUTO STERRI E RIPORTI				Foglio n. 4			
N. SEZ.	FIG.	SUPERFICIE STERRO mq	RIPORTO mq	PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI STERRO mc	PARZIALI RIPORTO mc	VOLUMI STERRO mc	TOTALI RIPORTO mc
Q	R1		0.04	(0.00)					
2	R1		0.03	(20.00)	20.00		0.700		
Q	S1	0.16		(0.00)					
2	S1	0.29		(20.00)	20.00	4.500			
Q	R2		0.07	(0.00)	11.67		0.408		
				0.07*20.00					
				0.07+0.05	11.67				
2	S2	0.05		(20.00)	8.33	0.208			
Q	R3		0.36	(0.00)					
2	R2		0.01	(20.00)	20.00		5.700		
	R3		0.20						
								4.708	6.808
2	R1		0.03	(20.00)	20.00		0.300		
				0.03*20.00					
				0.03+0.00	20.00				
3	S1	0.00		(40.00)	0.00	0.000			
2	S1	0.29		(20.00)					
	S2	0.05							
3	S2	1.05		(40.00)	20.00	13.900			
2	R2		0.01	(20.00)	1.67		0.008		
				0.01*20.00					
				0.01+0.11	1.67				
3	S3	0.11		(40.00)	18.33	1.008			
2	R3		0.20	(20.00)					
3	R1		0.05	(40.00)	20.00		2.500		
								14.908	2.808
3	S1	0.00		(40.00)					
	S2	1.05							
	S3	0.11							
4	S1	1.19		(42.57)	2.57	3.020			
3	R1		0.05	(40.00)					
4	R1		0.04	(42.57)	2.57		0.116		
								3.020	0.116
4	S1	1.19		(42.57)					
5	S1	1.95		(50.01)	7.44	11.681			
4	R1		0.04	(42.57)	7.44		0.149		
				0.04*7.44					
				0.04+0.00	7.44				
5	S2	0.00		(50.01)	0.00	0.000			
								11.681	0.149
5	S1	1.95		(50.01)					
	S2	0.00							
6	S1	2.68		(55.42)	5.41	12.524			
								12.524	
6	S1	2.68		(55.42)					
7	S1	2.40		(60.82)	5.40	13.716			
								13.716	
7	S1	2.40		(60.82)					
8	S1	1.85		(68.22)	7.40	15.725			
								15.725	
8	S1	1.85		(68.22)					
9	S1	1.33		(80.00)	11.78	18.730			
								18.730	
9	S1	1.33		(80.00)					
10	S1	1.34		(100.00)	20.00	26.700			
								26.700	
10	S1	1.34		(100.00)					
11	S1	1.44		(120.00)	20.00	27.800			
A RIPORTARE :						27.800		121.712	9.881

				COMPUTO STERRI E RIPORTI				Foglio n. 5	
N. SEZ.	FIG.	SUPERFICIE STERRO mq	RIPORTO mq	PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI STERRO mc	PARZIALI RIPORTO mc	VOLUMI STERRO mc	TOTALI RIPORTO mc
RIPORTO :						27.800		121.712	9.881
11	S1	1.44		(120.00)				27.800	
12	S1	1.24		(140.00)	20.00	26.800		26.800	
12	S1	1.24		(140.00)	19.22	11.916			
				1.24*20.00	19.22				
13	R1		0.05	(160.00)	0.78		0.020		
12	S0	0.00		(140.00)	20.00	5.500			
13	S1	0.55		(160.00)				17.416	0.020
13	R1		0.05	(160.00)	20.00		1.100		
14	R1		0.06	(180.00)					
13	S1	0.55		(160.00)	20.00	10.600			
14	S1	0.51		(180.00)					
13	R2		0.06	(160.00)	20.00		1.300		
14	R2		0.07	(180.00)				10.600	2.400
14	R1		0.06	(180.00)	20.00		0.800		
15	R1		0.02	(200.00)					
14	S1	0.51		(180.00)	20.00	14.700			
15	S1	0.96		(200.00)					
14	R2		0.07	(180.00)	20.00		0.900		
15	R2		0.02	(200.00)				14.700	1.700
15	R1		0.02	(200.00)	10.91		0.109		
16	R0		0.00	(210.91)					
15	S1	0.96		(200.00)	10.91	12.546			
16	S1	1.34		(210.91)				12.546	0.109
16	S1	1.34		(210.91)	9.09	14.771			
17	S1	1.91		(220.00)				14.771	
17	S1	1.91		(220.00)	9.12	21.067			
18	S1	2.71		(229.12)				21.067	
18	S1	2.71		(229.12)	10.88	31.117			
19	S1	3.01		(240.00)				31.117	
19	S1	3.01		(240.00)	21.35	51.667			
20	S1	1.83		(261.35)				51.667	
20	S1	1.83		(261.35)	4.76	7.330			
21	S1	1.25		(266.11)					
20	R0		0.00	(261.35)	4.76		0.095		
21	R1		0.04	(266.11)				7.330	0.095
21	R1		0.04	(266.11)	4.76		0.167		
22	R1		0.03	(270.87)					
21	S1	1.25		(266.11)	4.76	5.593			
22	S1	1.10		(270.87)				5.593	0.167
22	R1		0.03	(270.87)	0.13		0.002		
				0.03*6.91	0.13				
23	S1	1.55		(277.78)	6.78	5.255			
				0.03+1.55					
A RIPORTARE :						5.255	0.002	363.119	14.372

				COMPUTO STERRI E RIPORTI				Foglio n. 6	
N. SEZ.	FIG.	SUPERFICIE STERRO mq	RIPORTO mq	PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI STERRO mc	PARZIALI RIPORTO mc	VOLUMI STERRO mc	TOTALI RIPORTO mc
RIPORTO :						5.255	0.002	363.119	14.372
								5.255	0.002
23	S1	1.55		(277.78)					
24	S1	0.00		(285.51)	7.73	12.600			
	S2	1.71						12.600	
24	S1	0.00		(285.51)	0.00	0.000			
				0.00*7.72	0.00				
				0.00+0.01					
25	R1		0.01	(293.23)	7.72		0.039		
24	S2	1.71		(285.51)	7.72	12.043			
25	S1	1.41		(293.23)				12.043	0.039
25	R1		0.01	(293.23)	6.77		0.372		
26	R1		0.10	(300.00)					
25	S1	1.41		(293.23)	6.77	7.921			
26	S1	0.93		(300.00)				7.921	0.372
26	R1		0.10	(300.00)	0.14		0.014		
27	R1		0.10	(300.14)					
	R2		0.00						
26	S1	0.93		(300.00)	0.14	0.127			
27	S1	0.89		(300.14)				0.127	0.014
27	R1		0.10	(300.14)	4.29		0.472		
28	R1		0.12	(304.43)					
	R2		0.00						
27	S1	0.89		(300.14)	4.29	3.539			
28	S2	0.76		(304.43)				3.539	0.472
28	R1		0.12	(304.43)	4.29		0.429		
29	R1		0.08	(308.72)					
28	S1	0.00		(304.43)	4.29	3.518			
	S2	0.76							
29	S2	0.88		(308.72)				3.518	0.429
29	R1		0.08	(308.72)	10.07		0.403		
				0.08*11.33	10.07				
				0.08+0.01					
30	S1	0.01		(320.05)	1.26	0.006			
29	S1	0.00		(308.72)					
	S2	0.88			11.33	16.938			
30	S2	2.11		(320.05)				16.944	0.403
30	S1	0.01		(320.05)	11.19	32.843			
	S2	2.11							
R	S1	3.75		(331.24)				32.843	
Il Direttore dei Lavori				L'Impresa		Totale Articoli .....		457.909	16.103
						A dedurre quantita' precedenti:			
						Quantita' da contabilizzare ...			

		CALCOLO DELLE AREE		Foglio n. 7	
CASSONETTO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
Q 0.00	C1	(0.00--1.75) x (110.76+110.72) / 2 (1.75-0.00) x (110.72+110.76) / 2 (0.00-1.75) x (110.46+110.42) / 2 (-1.75-0.00) x (110.42+110.46) / 2	193.80 193.80 -193.27 -193.27	1.06	
2 20.00	C1	(0.00--1.75) x (110.96+110.91) / 2 (1.75-0.00) x (110.91+110.96) / 2 (0.00-1.75) x (110.66+110.61) / 2 (-1.75-0.00) x (110.61+110.66) / 2	194.14 194.14 -193.61 -193.61		
3 40.00	C1	(0.00--1.75) x (111.15+111.10) / 2 (1.75-0.00) x (111.10+111.15) / 2 (0.00-1.75) x (110.85+110.80) / 2 (-1.75-0.00) x (110.80+110.85) / 2	194.47 194.47 -193.94 -193.94	1.06	
4 42.57	C1	(0.00--1.75) x (111.17+111.13) / 2 (1.75-0.00) x (111.13+111.17) / 2 (0.00-1.75) x (110.87+110.83) / 2 (-1.75-0.00) x (110.83+110.87) / 2	194.51 194.51 -193.99 -193.99		
5 50.01	C1	(0.00--1.75) x (111.15+111.21) / 2 (1.75-0.00) x (111.09+111.15) / 2 (0.00-1.75) x (110.85+110.79) / 2 (-1.75-0.00) x (110.91+110.85) / 2	194.56 194.46 -193.94 -194.04	1.04	
6 55.42	C1	(0.00--1.75) x (111.02+111.08) / 2 (1.75-0.00) x (110.96+111.02) / 2 (0.00-1.75) x (110.72+110.66) / 2 (-1.75-0.00) x (110.78+110.72) / 2	194.34 194.23 -193.71 -193.81		
7 60.82	C1	(0.00--1.75) x (110.79+110.85) / 2 (1.75-0.00) x (110.73+110.79) / 2 (0.00-1.75) x (110.49+110.43) / 2 (-1.75-0.00) x (110.55+110.49) / 2	193.94 193.83 -193.31 -193.41	1.05	
8 68.22	C1	(0.00--1.75) x (110.32+110.28) / 2 (1.75-0.00) x (110.28+110.32) / 2 (0.00-1.75) x (110.02+109.98) / 2 (-1.75-0.00) x (109.98+110.02) / 2	193.03 193.03 -192.50 -192.50		
9 80.00	C1	(0.00--1.75) x (109.43+109.38) / 2 (1.75-0.00) x (109.38+109.43) / 2 (0.00-1.75) x (109.13+109.08) / 2 (-1.75-0.00) x (109.08+109.13) / 2	191.46 191.46 -190.93 -190.93	1.06	
10 100.00	C1	(0.00--1.75) x (107.90+107.86) / 2 (1.75-0.00) x (107.86+107.90) / 2 (0.00-1.75) x (107.60+107.56) / 2 (-1.75-0.00) x (107.56+107.60) / 2	188.79 188.79 -188.26 -188.26		
11 120.00	C1	(0.00--1.75) x (106.38+106.34) / 2 (1.75-0.00) x (106.34+106.38) / 2 (0.00-1.75) x (106.08+106.04) / 2 (-1.75-0.00) x (106.04+106.08) / 2	186.13 186.13 -185.61 -185.61	1.06	
12 140.00	C1	(0.00--1.75) x (104.86+104.82) / 2 (1.75-0.00) x (104.82+104.86) / 2 (0.00-1.75) x (104.56+104.52) / 2 (-1.75-0.00) x (104.52+104.56) / 2	183.47 183.47 -182.94 -182.94		
13 160.00	C1	(0.00--1.75) x (103.34+103.29) / 2 (1.75-0.00) x (103.29+103.34) / 2 (0.00-1.75) x (103.04+102.99) / 2 (-1.75-0.00) x (102.99+103.04) / 2	180.80 180.80 -180.28 -180.28	1.06	
14 180.00	C1	(0.00--1.75) x (101.82+101.77) / 2 (1.75-0.00) x (101.77+101.82) / 2 (0.00-1.75) x (101.52+101.47) / 2 (-1.75-0.00) x (101.47+101.52) / 2	178.14 178.14 -177.62 -177.62		
15 200.00	C1	(0.00--1.75) x (100.29+100.25) / 2 (1.75-0.00) x (100.25+100.29) / 2 (0.00-1.75) x (99.99+99.95) / 2 (-1.75-0.00) x (99.95+99.99) / 2	175.47 175.47 -174.95 -174.95	1.04	
16 210.91	C1	(0.00--1.75) x (99.46+99.42) / 2 (1.75-0.00) x (99.42+99.46) / 2 (0.00-1.75) x (99.16+99.12) / 2 (-1.75-0.00) x (99.12+99.16) / 2	174.02 174.02 -173.50 -173.50		
17 220.00	C1	(0.00--1.75) x (98.91+98.87) / 2 (1.75-0.00) x (98.87+98.91) / 2 (0.00-1.75) x (98.61+98.57) / 2 (-1.75-0.00) x (98.57+98.61) / 2	173.06 173.06 -172.53 -172.53	1.04	
18 229.12	C1	(0.00--1.75) x (98.63+98.59) / 2 (1.75-0.00) x (98.59+98.63) / 2 (0.00-1.75) x (98.33+98.29) / 2 (-1.75-0.00) x (98.29+98.33) / 2	172.57 172.57 -172.04 -172.04		
19 240.00	C1	(0.00--1.75) x (98.47+98.43) / 2 (1.75-0.00) x (98.43+98.47) / 2 (0.00-1.75) x (98.17+98.13) / 2 (-1.75-0.00) x (98.13+98.17) / 2	172.29 172.29 -171.76 -171.76	1.06	
20 261.35	C1	(0.00--1.75) x (98.14+98.21) / 2 (1.75-0.00) x (98.08+98.14) / 2 (0.00-1.75) x (97.84+97.78) / 2 (-1.75-0.00) x (97.91+97.84) / 2	171.81 171.69 -171.17 -171.28		
21 266.11	C1	(0.00--1.75) x (98.07+98.13) / 2 (1.75-0.00) x (98.01+98.07) / 2 (0.00-1.75) x (97.77+97.71) / 2 (-1.75-0.00) x (97.83+97.77) / 2	171.67 171.57 -171.04 -171.15	1.05	
22 270.87	C1	(0.00--1.75) x (98.00+98.06) / 2 (1.75-0.00) x (97.94+98.00) / 2	171.55 171.45		
A RIPORTARE mq			343.00		

		CALCOLO DELLE AREE		Foglio n. 8	
CASSONETTO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTO mq			343.00		
23 277.78	C1	(0.00-1.75) x (97.70+97.64) / 2	-170.92	1.05	
		(-1.75-0.00) x (97.76+97.70) / 2	-171.03		
		(0.00--1.75) x (97.90+97.85) / 2	171.28		
		(1.75-0.00) x (97.85+97.90) / 2	171.28		
		(0.00-1.75) x (97.60+97.55) / 2	-170.76		
		(-1.75-0.00) x (97.55+97.60) / 2	-170.76		
24 285.51	C1	(0.00--1.75) x (97.88+97.83) / 2	171.25	1.04	
		(1.75-0.00) x (97.83+97.88) / 2	171.25		
		(0.00-1.75) x (97.58+97.53) / 2	-170.72		
		(-1.75-0.00) x (97.53+97.58) / 2	-170.72		
25 293.23	C1	(0.00--1.75) x (98.06+98.02) / 2	171.57	1.06	
		(1.75-0.00) x (98.01+98.06) / 2	171.56		
		(0.00-1.75) x (97.76+97.71) / 2	-171.04		
		(-1.75-0.00) x (97.72+97.76) / 2	-171.05		
26 300.00	C1	(0.00--1.75) x (98.30+98.36) / 2	172.08	1.04	
		(1.75-0.00) x (98.25+98.30) / 2	171.98		
		(0.00-1.75) x (98.00+97.95) / 2	-171.46		
		(-1.75-0.00) x (98.06+98.00) / 2	-171.55		
27 300.14	C1	(0.00--1.75) x (98.31+98.37) / 2	172.09	1.05	
		(1.75-0.00) x (98.25+98.31) / 2	171.99		
		(0.00-1.75) x (98.01+97.95) / 2	-171.47		
		(-1.75-0.00) x (98.07+98.01) / 2	-171.57		
28 304.43	C1	(0.00--1.75) x (98.47+98.53) / 2	172.38	1.04	
		(1.75-0.00) x (98.40+98.47) / 2	172.26		
		(0.00-1.75) x (98.17+98.10) / 2	-171.74		
		(-1.75-0.00) x (98.23+98.17) / 2	-171.85		
29 308.72	C1	(0.00--1.75) x (98.62+98.68) / 2	172.64	1.05	
		(1.75-0.00) x (98.56+98.62) / 2	172.53		
		(0.00-1.75) x (98.32+98.26) / 2	-172.01		
		(-1.75-0.00) x (98.38+98.32) / 2	-172.11		
30 320.05	C1	(0.00--1.75) x (99.03+98.99) / 2	173.27	1.05	
		(1.75-0.00) x (98.99+99.03) / 2	173.27		
		(0.00-1.75) x (98.73+98.69) / 2	-172.74		
		(-1.75-0.00) x (98.69+98.73) / 2	-172.74		
R 331.24	C1	(0.00--1.75) x (99.44+99.40) / 2	173.99	1.06	
		(1.75-0.00) x (99.40+99.44) / 2	173.99		
		(0.00-1.75) x (99.14+99.10) / 2	-173.46		
		(-1.75-0.00) x (99.10+99.14) / 2	-173.46		
11 Direttore dei Lavori		L'Impresa			



		COMPUTO DEI VOLUMI					Foglio n. 9	
CASSONETTO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
Q	2	Q	C1	1.06	20.00	10.00	10.600	21.200
0.00	20.00	2	C1	1.06	20.00	10.00	10.600	
2	3	2	C1	1.06	20.00	10.00	10.600	21.200
20.00	40.00	3	C1	1.06	20.00	10.00	10.600	
3	4	3	C1	1.06	2.57	1.29	1.367	2.709
40.00	42.57	4	C1	1.04	2.57	1.29	1.342	
4	5	4	C1	1.04	7.44	3.72	3.869	7.738
42.57	50.01	5	C1	1.04	7.44	3.72	3.869	
5	6	5	C1	1.04	5.41	2.71	2.818	5.663
50.01	55.42	6	C1	1.05	5.41	2.71	2.845	
6	7	6	C1	1.05	5.40	2.70	2.835	5.670
55.42	60.82	7	C1	1.05	5.40	2.70	2.835	
7	8	7	C1	1.05	7.40	3.70	3.885	7.807
60.82	68.22	8	C1	1.06	7.40	3.70	3.922	
8	9	8	C1	1.06	11.78	5.89	6.243	12.486
68.22	80.00	9	C1	1.06	11.78	5.89	6.243	
9	10	9	C1	1.06	20.00	10.00	10.600	21.200
80.00	100.00	10	C1	1.06	20.00	10.00	10.600	
10	11	10	C1	1.06	20.00	10.00	10.600	21.000
100.00	120.00	11	C1	1.04	20.00	10.00	10.400	
11	12	11	C1	1.04	20.00	10.00	10.400	21.000
120.00	140.00	12	C1	1.06	20.00	10.00	10.600	
12	13	12	C1	1.06	20.00	10.00	10.600	21.000
140.00	160.00	13	C1	1.04	20.00	10.00	10.400	
13	14	13	C1	1.04	20.00	10.00	10.400	20.800
160.00	180.00	14	C1	1.04	20.00	10.00	10.400	
14	15	14	C1	1.04	20.00	10.00	10.400	20.800
180.00	200.00	15	C1	1.04	20.00	10.00	10.400	
15	16	15	C1	1.04	10.91	5.45	5.668	11.336
200.00	210.91	16	C1	1.04	10.91	5.45	5.668	
16	17	16	C1	1.04	9.09	4.55	4.732	9.555
210.91	220.00	17	C1	1.06	9.09	4.55	4.823	
17	18	17	C1	1.06	9.12	4.56	4.834	9.668
220.00	229.12	18	C1	1.06	9.12	4.56	4.834	
18	19	18	C1	1.06	10.88	5.44	5.766	11.532
229.12	240.00	19	C1	1.06	10.88	5.44	5.766	
19	20	19	C1	1.06	21.35	10.68	11.321	22.535
240.00	261.35	20	C1	1.05	21.35	10.68	11.214	
20	21	20	C1	1.05	4.76	2.38	2.499	4.998
261.35	266.11	21	C1	1.05	4.76	2.38	2.499	
21	22	21	C1	1.05	4.76	2.38	2.499	4.998
266.11	270.87	22	C1	1.05	4.76	2.38	2.499	
22	23	22	C1	1.05	6.91	3.45	3.623	7.211
270.87	277.78	23	C1	1.04	6.91	3.45	3.588	
23	24	23	C1	1.04	7.73	3.87	4.025	8.127
277.78	285.51	24	C1	1.06	7.73	3.87	4.102	
24	25	24	C1	1.06	7.72	3.86	4.092	8.106
285.51	293.23	25	C1	1.04	7.72	3.86	4.014	
25	26	25	C1	1.04	6.77	3.38	3.515	7.064
293.23	300.00	26	C1	1.05	6.77	3.38	3.549	
26	27	26	C1	1.05	0.14	0.07	0.074	0.147
300.00	300.14	27	C1	1.04	0.14	0.07	0.073	
27	28	27	C1	1.04	4.29	2.15	2.236	4.493
300.14	304.43	28	C1	1.05	4.29	2.15	2.257	
28	29	28	C1	1.05	4.29	2.15	2.257	4.514
304.43	308.72	29	C1	1.05	4.29	2.15	2.257	
29	30	29	C1	1.05	11.33	5.66	5.943	11.943
308.72	320.05	30	C1	1.06	11.33	5.66	6.000	
30	R	30	C1	1.06	11.19	5.59	5.925	11.850
320.05	331.24	R	C1	1.06	11.19	5.59	5.925	
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			348.350

