

COMMITTENTE:



PROGETTAZIONE:



**DIREZIONE TECNICA**

U.O. LINEE NODI ED ARMAMENTO

**PROGETTO FATTIBILITA' TECNICO ECONOMICA**

**POTENZIAMENTO INFRASTRUTTURALE ORTE-FALCONARA  
RADDOPPIO DELLA TRATTA PM228-CASTELPLANIO  
LOTTO 02**

**VIABILITA'**

NV02 - SEZIONI TRASVERSALI - PASSO 50M

SCALA :

1 : 200

COMMESSA LOTTO FASE ENTE TIPO DOC. OPERA/DISCIPLINA PROGR. REV.

IR0F 02 R 13 W9 IF0005 002 A

Revis.	Descrizione	Redatto	Data	Verificato	Data	Approvato	Data	Autorizzato	Data
A	EMISSIONE DEFINITIVA	P. Cucino	Sett. 2021	F. Gaeta 	Sett. 2021	C. Urciuoli 	Sett. 2021	V. Conforti	Settembre 2021

ITALFERR S.p.A.  
U.O. PROGETTAZIONE LINEE E NODI  
Dott. Ing. VINCENZO CONFORTI  
Ordine degli Ingegneri di VITERBO N. 409

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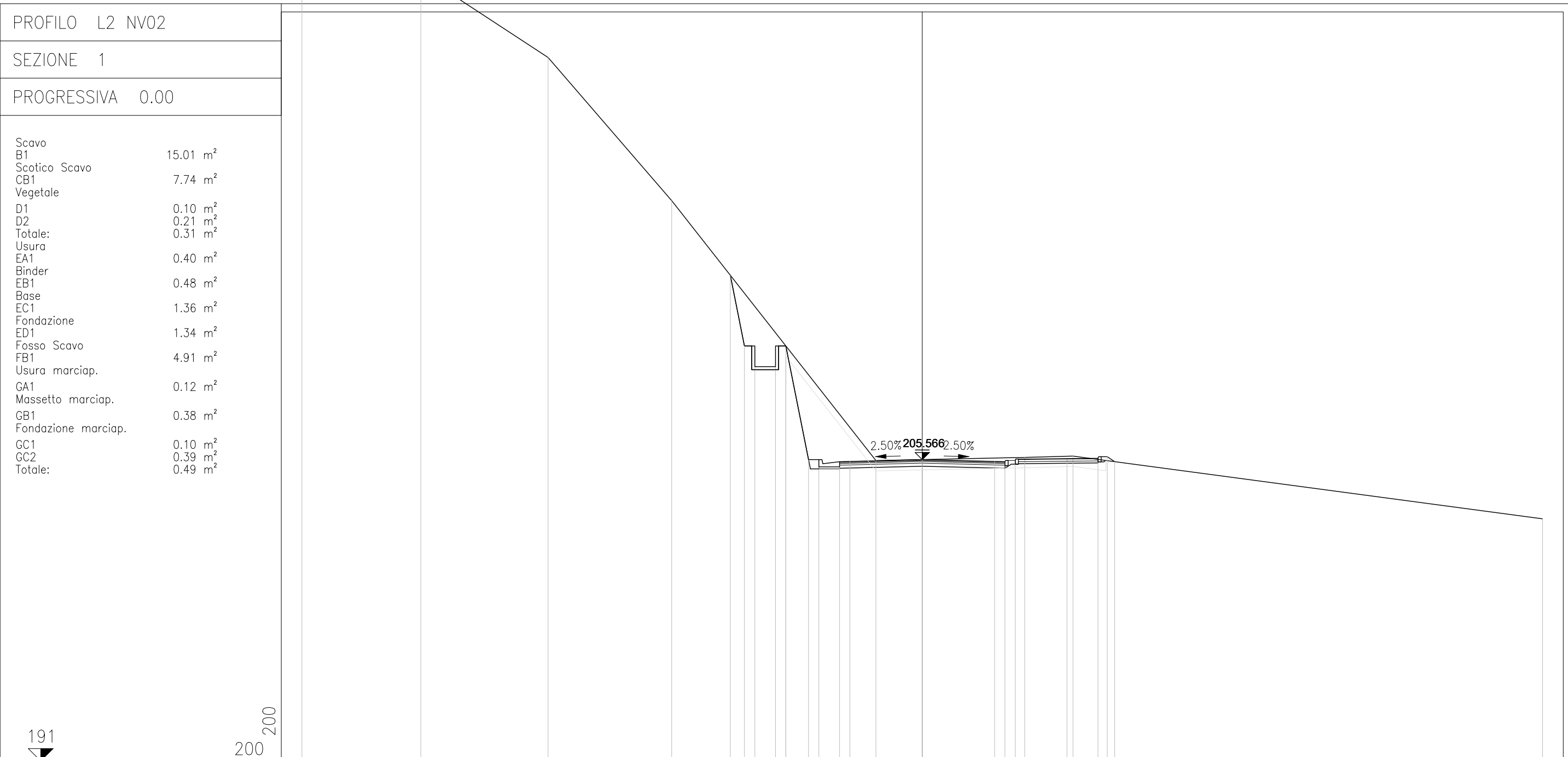
n. Elab.:

PROFILO L2 NV02

SEZIONE 1

PROGRESSIVA 0.00

Scavo	
B1	15.01 m <sup>2</sup>
Scotico Scavo	
CB1	7.74 m <sup>2</sup>
Vegetale	
D1	0.10 m <sup>2</sup>
D2	0.21 m <sup>2</sup>
Totale:	0.31 m <sup>2</sup>
Usura	
EA1	0.40 m <sup>2</sup>
Binder	
EB1	0.48 m <sup>2</sup>
Base	
EC1	1.36 m <sup>2</sup>
Fondazione	
ED1	1.34 m <sup>2</sup>
Fosso Scavo	
FB1	4.91 m <sup>2</sup>
Usura marciap.	
GA1	0.12 m <sup>2</sup>
Massetto marciap.	
GB1	0.38 m <sup>2</sup>
Fondazione marciap.	
GC1	0.10 m <sup>2</sup>
GC2	0.39 m <sup>2</sup>
Totale:	0.49 m <sup>2</sup>



PROGRESSIVE TERRENO	-30.00	-24.25	-18.10	-12.12	-2.24	4.95	7.29	30.00
PARZIALI TERRENO		5.75	6.15	5.98	9.88	7.19	2.34	22.71
QUOTE TERRENO	232.33	229.03	225.00	218.08	205.52	205.67	205.74	202.70
PROGRESSIVE PROGETTO								
PARZIALI PROGETTO								
QUOTE PROGETTO								

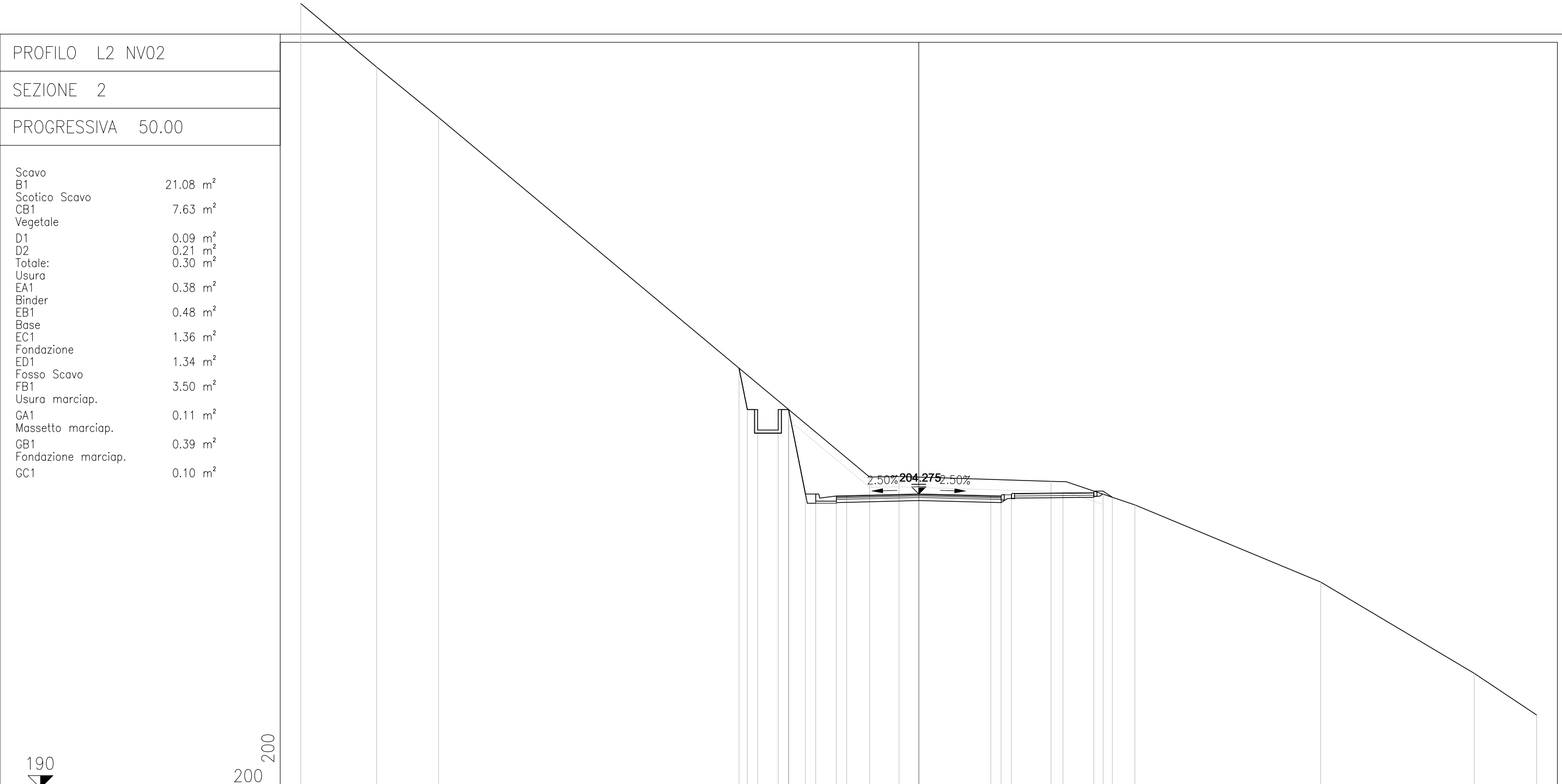
214.47	0.68	-9.28
211.06	0.50	-8.60
211.06	1.00	-8.10
211.06	0.50	-7.10
211.06	0.50	-6.60
211.06	0.50	-6.60
205.57	0.50	-5.50
205.57	1.00	-5.00
205.47	0.50	-4.00
205.48	0.50	-3.50
205.57	3.50	0.00
205.48	0.50	3.50
205.47	0.50	4.00
205.60	0.50	4.50
205.62	2.50	7.00
205.63	1.50	8.50
205.70	0.45	8.95
205.47	0.36	9.31

PROFILO L2 NV02

SEZIONE 2

PROGRESSIVA 50.00

Scavo	
B1	21.08 m <sup>2</sup>
Scotico Scavo	
CB1	7.63 m <sup>2</sup>
Vegetale	
D1	0.09 m <sup>2</sup>
D2	0.21 m <sup>2</sup>
Totale:	0.30 m <sup>2</sup>
Usura	
EA1	0.38 m <sup>2</sup>
Binder	
EB1	0.48 m <sup>2</sup>
Base	
EC1	1.36 m <sup>2</sup>
Fondazione	
ED1	1.34 m <sup>2</sup>
Fosso Scavo	
FB1	3.50 m <sup>2</sup>
Usura marciap.	
GA1	0.11 m <sup>2</sup>
Massetto marciap.	
GB1	0.39 m <sup>2</sup>
Fondazione marciap.	
GC1	0.10 m <sup>2</sup>



PROGRESSIVE TERRENO	-30.00	-26.31	-23.31					-2.39	-0.95		6.43	10.49		19.51	26.97	30.00									
PARZIALI TERRENO		3.69	3.00		20.92			1.44		7.38		4.06		9.02		7.46	3.03								
QUOTE TERRENO	228.09	225.00	222.55					205.10	205.12		204.89	203.75		200.00		195.57	193.54								
PROGRESSIVE PROGETTO										0.00		3.50	4.00	4.50		7.00	8.50	8.95	9.40						
PARZIALI PROGETTO									3.50		3.50		0.50	0.50	2.50	1.50		0.45	0.45						
QUOTE PROGETTO								210.38	208.38	208.38	208.38	208.38	208.38	204.28	204.28	204.18	204.19	204.28	204.19	204.18	204.31	204.33	204.34	204.41	204.11

PROFILO L2 NV02

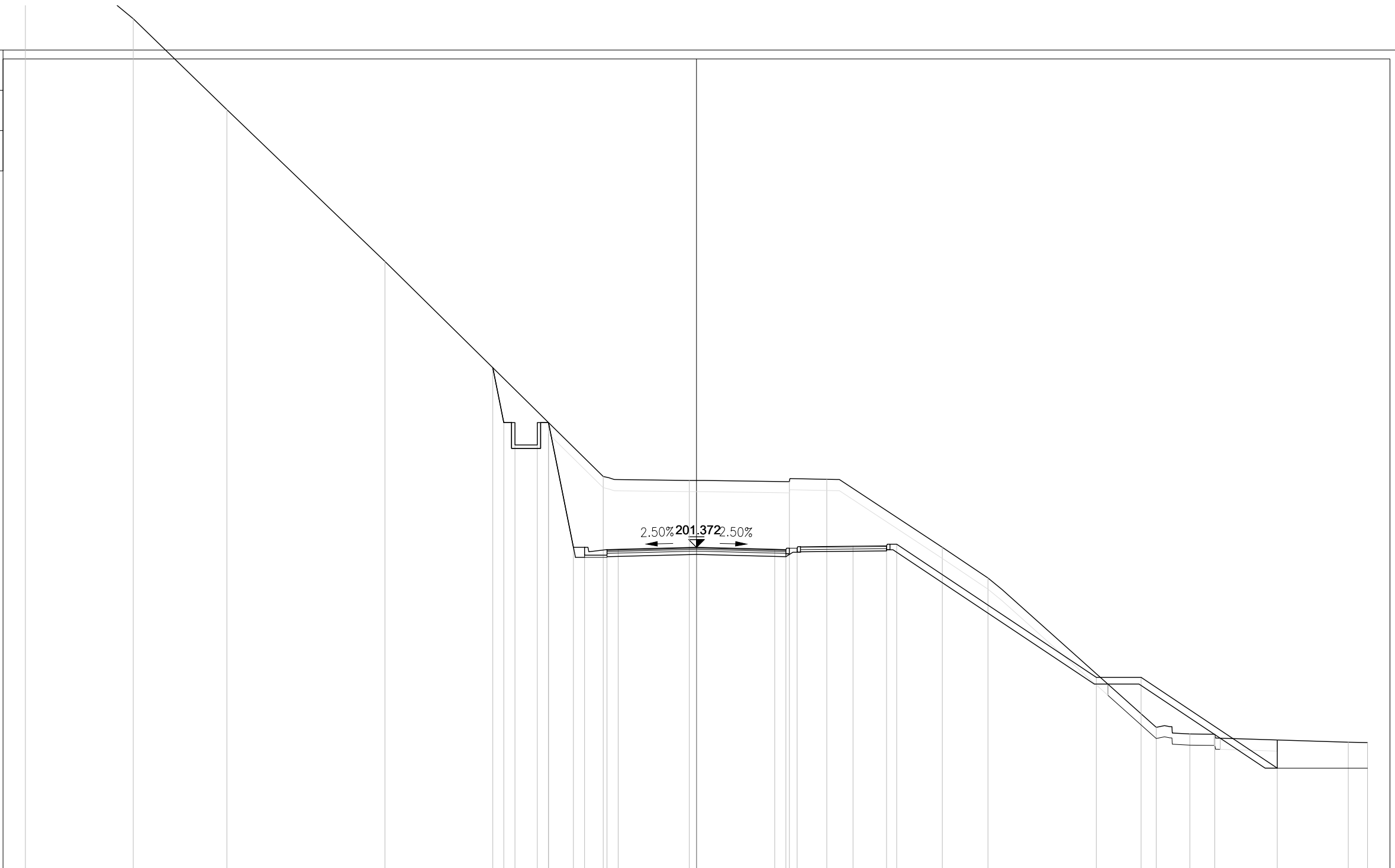
SEZIONE 3

PROGRESSIVA 100.00

Rilevato	
A1	3.84 m <sup>2</sup>
A2	0.01 m <sup>2</sup>
Totale:	3.85 m <sup>2</sup>
Scavo	
B1	62.20 m <sup>2</sup>
B2	1.99 m <sup>2</sup>
Totale:	64.19 m <sup>2</sup>
Scotico Rilevato	
CA1	0.13 m <sup>2</sup>
CA2	2.36 m <sup>2</sup>
Totale:	2.49 m <sup>2</sup>
Scotico Scavo	
CB1	1.28 m <sup>2</sup>
CB2	0.01 m <sup>2</sup>
CB3	12.48 m <sup>2</sup>
Totale:	13.77 m <sup>2</sup>
Vegetale	
D1	6.09 m <sup>2</sup>
D2	0.21 m <sup>2</sup>
Totale:	6.30 m <sup>2</sup>
Usura	
EA1	0.40 m <sup>2</sup>
Binder	
EB1	0.48 m <sup>2</sup>
Base	
EC1	1.36 m <sup>2</sup>
Fondazione	
ED1	1.33 m <sup>2</sup>
Fosso Scavo	
FB1	3.95 m <sup>2</sup>
Usura marciap.	
GA1	0.13 m <sup>2</sup>
Massetto marciap.	
GB1	0.38 m <sup>2</sup>
Fondazione marciap.	
GC1	0.10 m <sup>2</sup>
GC2	0.39 m <sup>2</sup>
Totale:	0.49 m <sup>2</sup>

187

200  
200



PROGRESSIVE TERRENO	-30.00	-25.18	-20.99	-13.93	-4.17	-0.32	4.16	5.83	10.99	13.03	20.55	22.06	23.17	29.14	30.00
PARZIALI TERRENO		4.82	4.19	7.06	9.76	3.85	4.48	1.67	5.16	2.04	7.52	1.51	1.11	5.97	0.86
QUOTE TERRENO	229.00	225.00	220.94	214.15	204.54	204.36	204.30	204.41	201.37	200.00	193.33	193.03	193.01	192.66	192.64
PROGRESSIVE PROGETTO															
PARZIALI PROGETTO						3.50	3.50	2.50	1.50	8.93	2.00	6.09			
QUOTE PROGETTO						201.37	201.28	201.40	201.43	201.44	195.56	195.56		191.50	

PROFILO L2 NV02

SEZIONE 4

PROGRESSIVA 150.00

Scavo B1	156.08 m <sup>2</sup>
Scotico Scavo CB1	15.05 m <sup>2</sup>
Vegetale D1	3.24 m <sup>2</sup>
D2	0.20 m <sup>2</sup>
Totale:	3.44 m <sup>2</sup>
Usura EA1	0.52 m <sup>2</sup>
Binder EB1	0.61 m <sup>2</sup>
Base EC1	1.71 m <sup>2</sup>
Fondazione ED1	1.61 m <sup>2</sup>
Fosso Scavo FB1	3.89 m <sup>2</sup>
Usura marciap. GA1	0.12 m <sup>2</sup>
Massetto marciap. GB1	0.38 m <sup>2</sup>
Fondazione marciap. GC1	0.11 m <sup>2</sup>

183

200  
200

PROGRESSIVE TERRENO	-30.00	-25.24	-8.58	-4.04	-2.61	4.64	6.89	9.03	11.62	12.66	14.01	16.05	17.37	18.76	21.13	25.67	27.47	30.00			
PARZIALI TERRENO	4.76	16.66	4.54	1.43	7.25	2.25	2.14	2.59	1.04	1.35	2.04	1.32	1.39	2.37	4.54	1.80	2.53				
QUOTE TERRENO	229.03	225.00	208.85	204.33	203.90	203.58	203.69	202.14	200.00	199.49	198.44	196.75	196.62	196.54	196.36	196.20	196.22	194.70			
PROGRESSIVE PROGETTO			-12.53	-12.05	-11.55	-10.55	-10.05	-9.00	-7.00	-5.50	-5.00	-4.00	-3.50	0.15	3.81	6.08	6.58	9.08	10.58	11.03	20.01
PARZIALI PROGETTO			0.48	0.50	1.00	0.50	0.05	2.00	1.50	0.50	1.00	0.50	3.65	3.66	2.27	0.50	2.50	1.50	0.45	8.98	20.01
QUOTE PROGETTO			212.68	210.28	210.28	210.28	210.28	205.03	205.03	197.54	197.54	197.44	197.44	197.40	197.31	197.25	197.38	197.40	197.42	197.49	191.50

1.09% 197.398 2.50%

PROFILO L2 NV02

SEZIONE 5

PROGRESSIVA 200.00

Scavo	
B1	213.16 m <sup>2</sup>
Scotico Scavo	
CB1	13.81 m <sup>2</sup>
Vegetale	
D1	1.11 m <sup>2</sup>
D2	0.20 m <sup>2</sup>
Totale:	1.31 m <sup>2</sup>
Usura	
EA1	0.65 m <sup>2</sup>
Binder	
EB1	0.77 m <sup>2</sup>
Base	
EC1	2.18 m <sup>2</sup>
Fondazione	
ED1	2.01 m <sup>2</sup>
Fosso Scavo	
FB1	3.89 m <sup>2</sup>
Usura marciap.	
GA1	0.11 m <sup>2</sup>
Massetto marciap.	
GB1	0.38 m <sup>2</sup>
Fondazione marciap.	
GC1	0.10 m <sup>2</sup>
GC2	0.39 m <sup>2</sup>
Totale:	0.49 m <sup>2</sup>

179

200

200

3.50% 193.633 3.50%

PROGRESSIVE TERRENO	-30.00	-27.35	-24.64		-16.77	-15.30	-14.20	-12.80	-11.67	-10.37	-9.10	-8.60	-8.10	-7.63		-4.41		1.64	3.60	4.99	6.74			13.63	14.73			22.36	24.33	26.16	30.00
PARZIALI TERRENO		2.65	2.71		7.87	1.47	1.10	1.40	1.13	1.30	0.66	0.61	0.50	0.50	0.47	3.22		6.05	1.96	1.39	1.75			6.89	1.10		7.63	1.97	1.83	3.84	
QUOTE TERRENO	227.31	225.00	221.86		213.97	212.66	211.94	211.19	210.36	209.00	207.73	206.57	205.56	204.53	203.53	203.07		202.75	202.89	202.06	201.68			200.13	199.91		199.67	199.80	198.84	196.69	
PROGRESSIVE PROGETTO								-12.98	-12.57	-12.07	-11.07	-10.57	-10.57	-9.00	-7.00	-5.50	-5.00	0.37	4.25				8.85	9.35	11.85	13.35	13.80	16.91			
PARZIALI PROGETTO								0.41	0.50	1.00	0.50	0.50	1.57	2.00	1.50	0.50	1.00	3.87	3.88			4.60	0.50	2.50	1.50	0.45	3.11				
QUOTE PROGETTO								211.29	209.23	209.23	209.23	209.23	209.23	201.41	201.41	193.89	193.89	193.79	193.77	193.63	193.50		193.34	193.47	193.49	193.51	193.58	191.50			



PROFILO L2 NV02

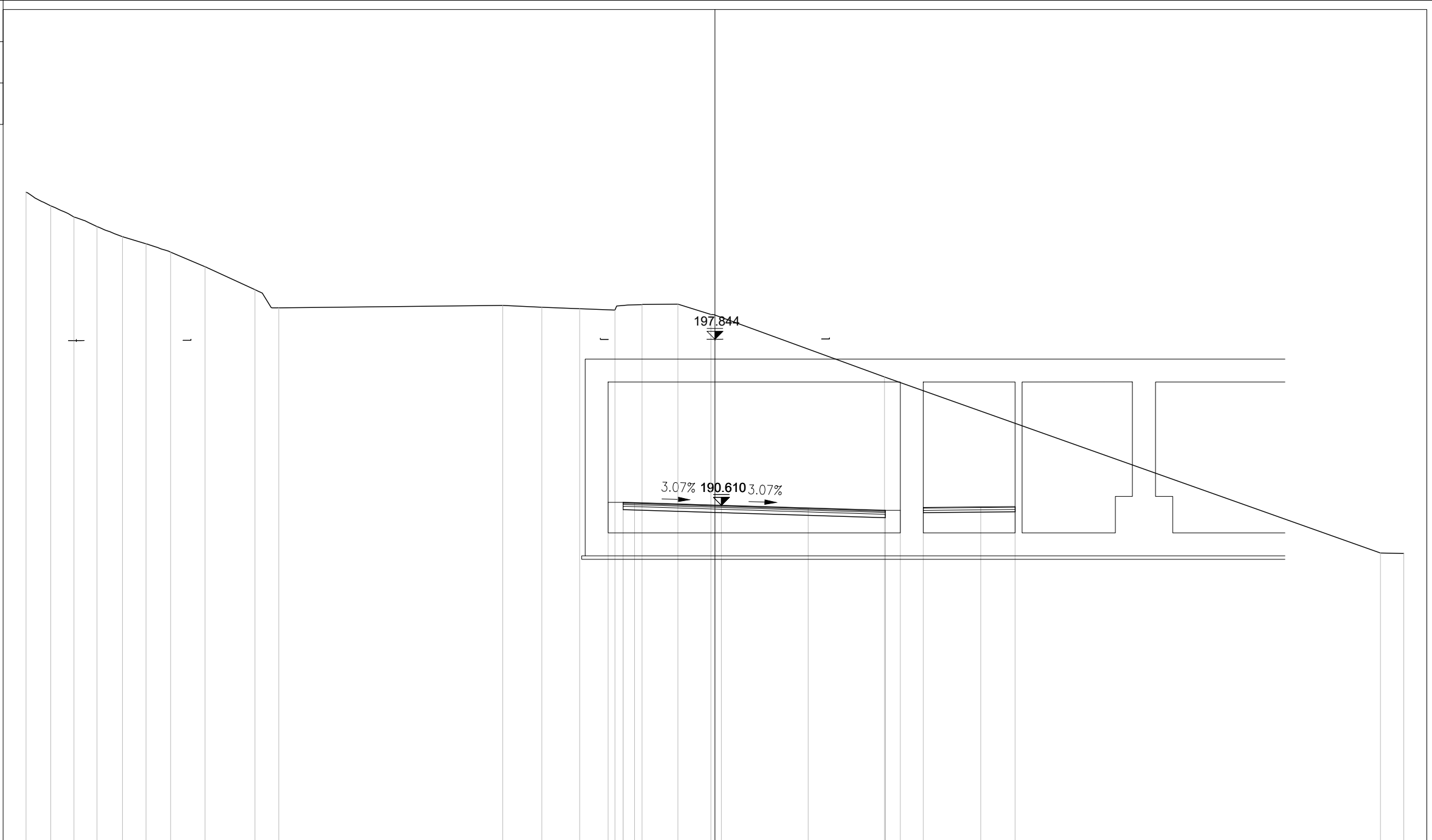
SEZIONE 6B

PROGRESSIVA 291.12

Usura	
EA1	0.57 m <sup>2</sup>
Binder	
EB1	0.69 m <sup>2</sup>
Base	
EC1	1.94 m <sup>2</sup>
Fondazione	
ED1	1.71 m <sup>2</sup>
Usura marciap.	
GA1	0.11 m <sup>2</sup>
Massetto marciap.	
GB1	0.40 m <sup>2</sup>
Fondazione marciap.	
GC1	0.40 m <sup>2</sup>

176

200  
200



PROGRESSIVE TERRENO	-30.00	-28.92	-27.91	-26.91	-25.80	-24.78	-23.70	-22.20	-20.03	-18.99		-9.24	-7.54	-5.89	-4.35	-3.17	-1.61	-0.18		7.38					28.98	30.00			
PARZIALI TERRENO	1.08	1.01	1.00	1.11	1.02	1.08	1.50	2.17	1.04		9.75	1.70	1.65	1.54	1.18	1.56	1.43		7.56					21.60		1.02			
QUOTE TERRENO	204.25	203.65	203.17	202.75	202.31	202.00	201.64	201.00	200.00	199.21		199.31	199.23	199.17	199.11	199.35	199.37	198.92		196.20						188.53	188.51		
PROGRESSIVE PROGETTO															-4.65	-4.00	-4.00	-3.50		0.28		4.06		7.42	7.42	8.07	9.07	11.57	13.07
PARZIALI PROGETTO															0.65	0.50		3.78		3.78		3.36		0.65		2.50	1.50		
QUOTE PROGETTO															190.74	190.74	190.74	190.73		190.61		190.49		190.39	190.39	190.39	190.52	190.54	190.56



PROFILO L2 NV02

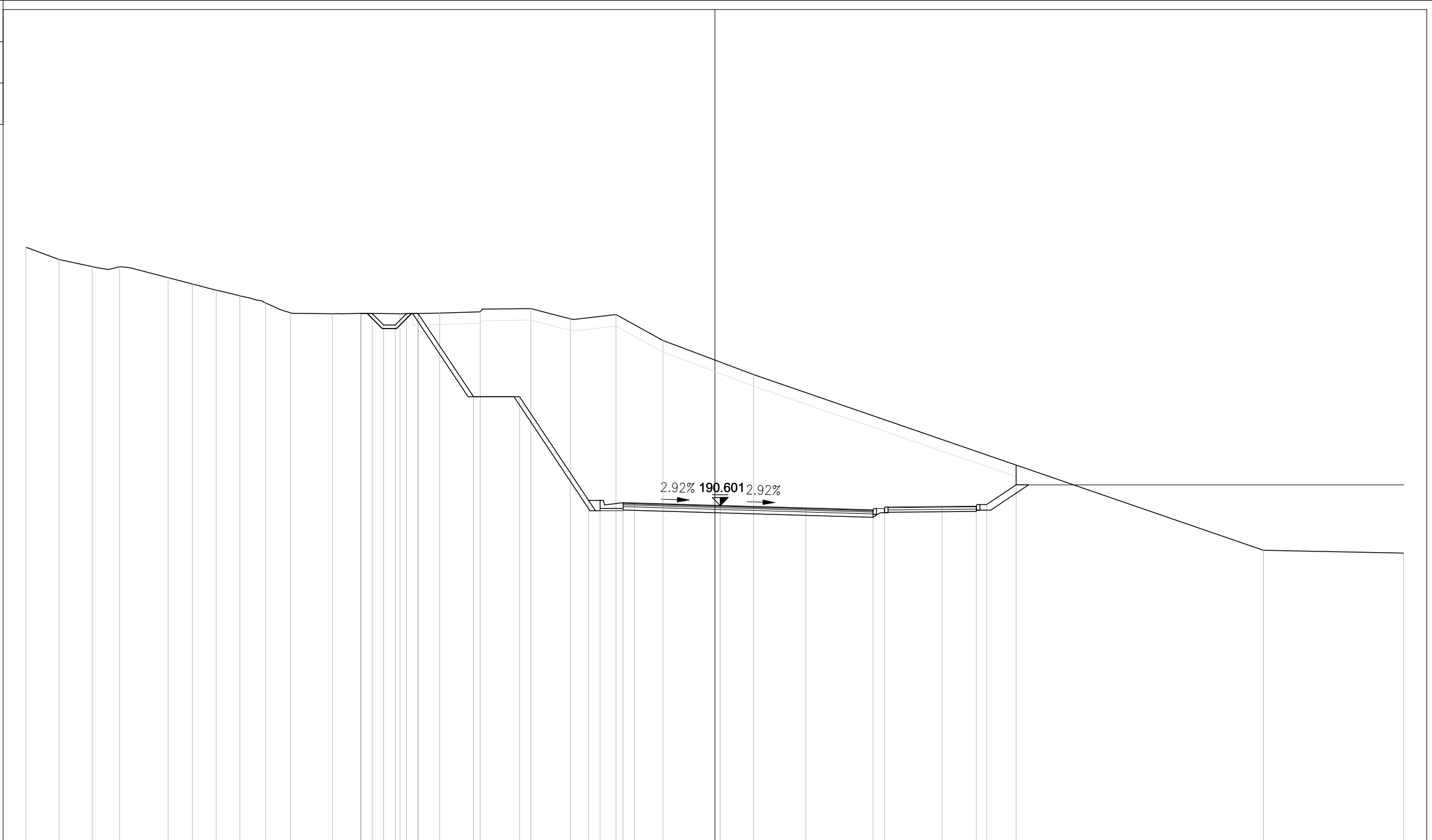
SEZIONE 7

PROGRESSIVA 300.00

Scavo	
B1	132.26 m <sup>2</sup>
Scotico Scavo	
CB1	13.14 m <sup>2</sup>
Vegetale	
D1	0.63 m <sup>2</sup>
D2	0.16 m <sup>2</sup>
Totale:	0.79 m <sup>2</sup>
Usura	
EA1	0.54 m <sup>2</sup>
Binder	
EB1	0.65 m <sup>2</sup>
Base	
EC1	1.85 m <sup>2</sup>
Fondazione	
ED1	1.72 m <sup>2</sup>
Fosso Scavo	
FB1	0.83 m <sup>2</sup>
Usura marciap.	
GA1	0.11 m <sup>2</sup>
Massetto marciap.	
GB1	0.38 m <sup>2</sup>
Fondazione marciap.	
GC1	0.09 m <sup>2</sup>
GC2	0.39 m <sup>2</sup>
Totale:	0.48 m <sup>2</sup>

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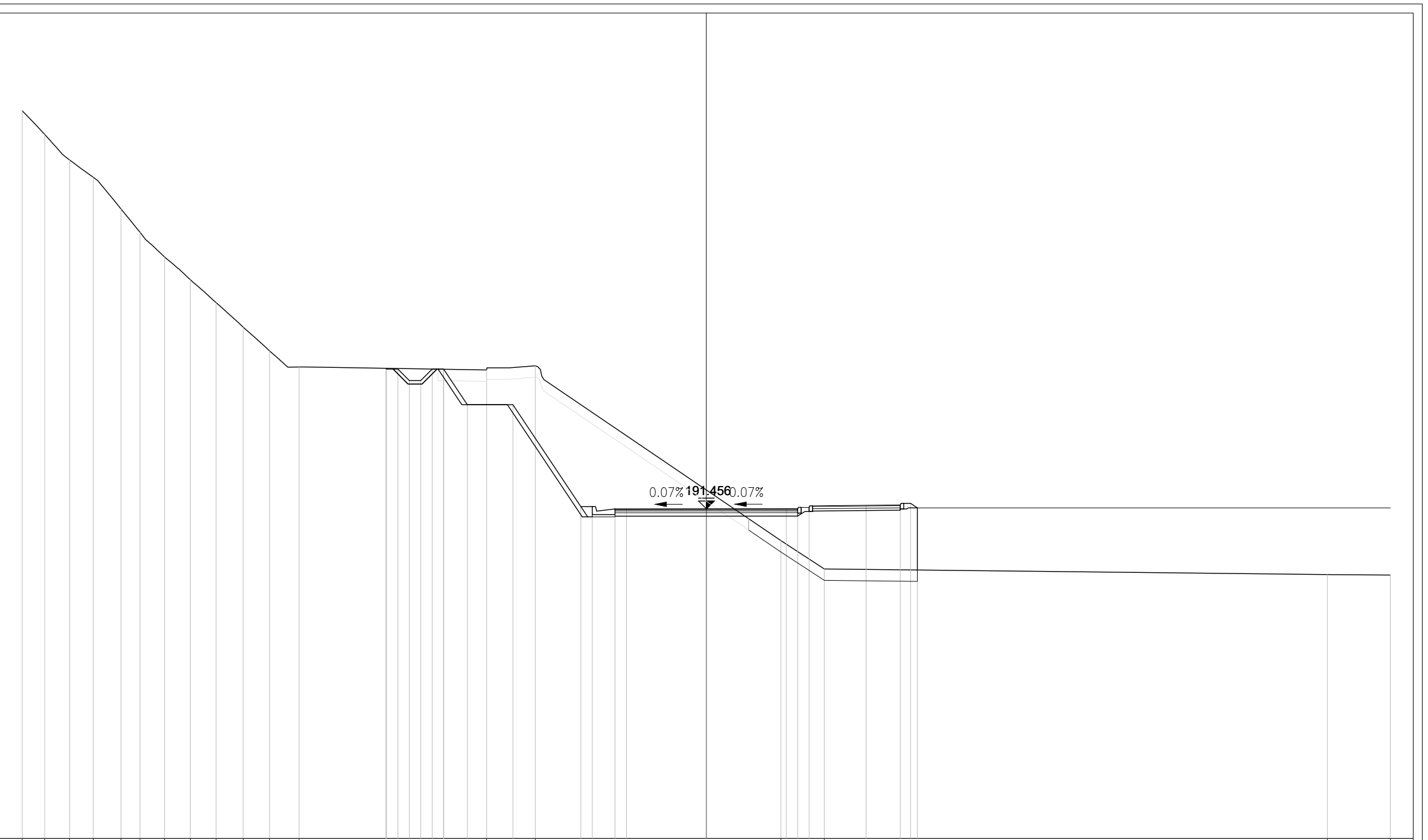
200  
200



PROGRESSIVE TERRENO	-30.00	-28.56	-27.12	-25.93	-23.81	-22.75	-21.72	-20.69	-19.56	-18.49	-16.66	-15.41	-13.71	-11.99	-10.22	-8.01	-6.30	-4.31	-2.26	1.69	23.89	30.00									
PARZIALI TERRENO	1.44	1.44	1.19	2.12	1.06	1.03	1.03	1.13	1.07	1.83	1.25	1.70	1.72	1.77	2.21	1.71	1.99	2.05	3.95		22.20	6.11									
QUOTE TERRENO	201.84	201.31	201.00	201.00	200.52	200.25	199.98	199.73	199.42	199.00	198.95	198.97	198.95	198.98	199.04	199.18	198.73	198.92	197.79	196.30	188.65	188.53									
PROGRESSIVE PROGETTO											-15.43	-15.42	-14.92	-14.42	-13.92	-13.42	-12.92	-10.51	-8.51	-5.50	-5.00	-4.00	-3.50	0.23	3.96	6.89	7.39	9.89	11.39	11.84	13.12
PARZIALI PROGETTO											0.01	0.50	0.50	0.50	0.50	0.50	0.50	2.00	3.01	0.50	1.00	0.50	3.73	3.73	2.93	0.50	2.50	1.50	0.45	1.28	
QUOTE PROGETTO											198.97	198.96	198.96	198.46	198.46	198.96	198.96	195.34	195.34	190.82	190.82	190.72	190.71	190.60	190.49	190.41	190.54	190.56	190.58	190.65	191.50

PROFILO L2 NV02  
 SEZIONE 8  
 PROGRESSIVA 350.00

Rilevato	
A1	14.67 m²
Scavo	
B1	33.59 m²
Scotico Rilevato	
CA1	3.70 m²
Scotico Scavo	
CB1	6.81 m²
Vegetale	
D1	0.09 m²
D2	0.16 m²
Totale:	0.25 m²
Usura	
EA1	0.39 m²
Binder	
EB1	0.48 m²
Base	
EC1	1.36 m²
Fondazione	
ED1	1.31 m²
Fosso Scavo	
FB1	0.85 m²
Usura marciap.	
GA1	0.11 m²
Massetto marciap.	
GB1	0.38 m²
Fondazione marciap.	
GC1	0.10 m²
GC2	0.38 m²
Totale:	0.48 m²



PROGRESSIVE TERRENO	-30.00	-29.02	-27.92	-26.89	-25.67	-24.84	-23.76	-22.63	-21.50	-20.31	-19.15	-17.86	-9.63	-7.50		3.27	5.17		27.24	30.00						
PARZIALI TERRENO	0.98	1.10	1.03	1.22	0.83	1.08	1.13	1.13	1.19	1.16	1.29	8.23	2.13	10.77	1.90	22.07			2.76							
QUOTE TERRENO	208.91	207.88	206.76	206.00	204.61	203.59	202.50	201.51	200.50	199.42	198.38	197.68	197.55	197.73		190.06	188.82		188.57	188.55						
PROGRESSIVE PROGETTO					-14.05	-14.02	-13.52	-13.02	-12.52	-12.02	-11.52	-11.52	-10.48	-8.48	-5.50	-5.00	-4.00	-3.50	0.00	3.51	4.01	4.51	7.01	8.51	8.96	9.25
PARZIALI PROGETTO					0.03	0.50	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.98	0.50	1.00	0.50	3.50	3.51	0.50	0.50	2.50	1.50	0.45	0.29	
QUOTE PROGETTO					197.62	197.58	197.58	197.08	197.58	197.58	197.58	197.58	196.02	196.02	191.55	191.55	191.45	191.45	191.46	191.46	191.46	191.59	191.61	191.63	191.70	191.50

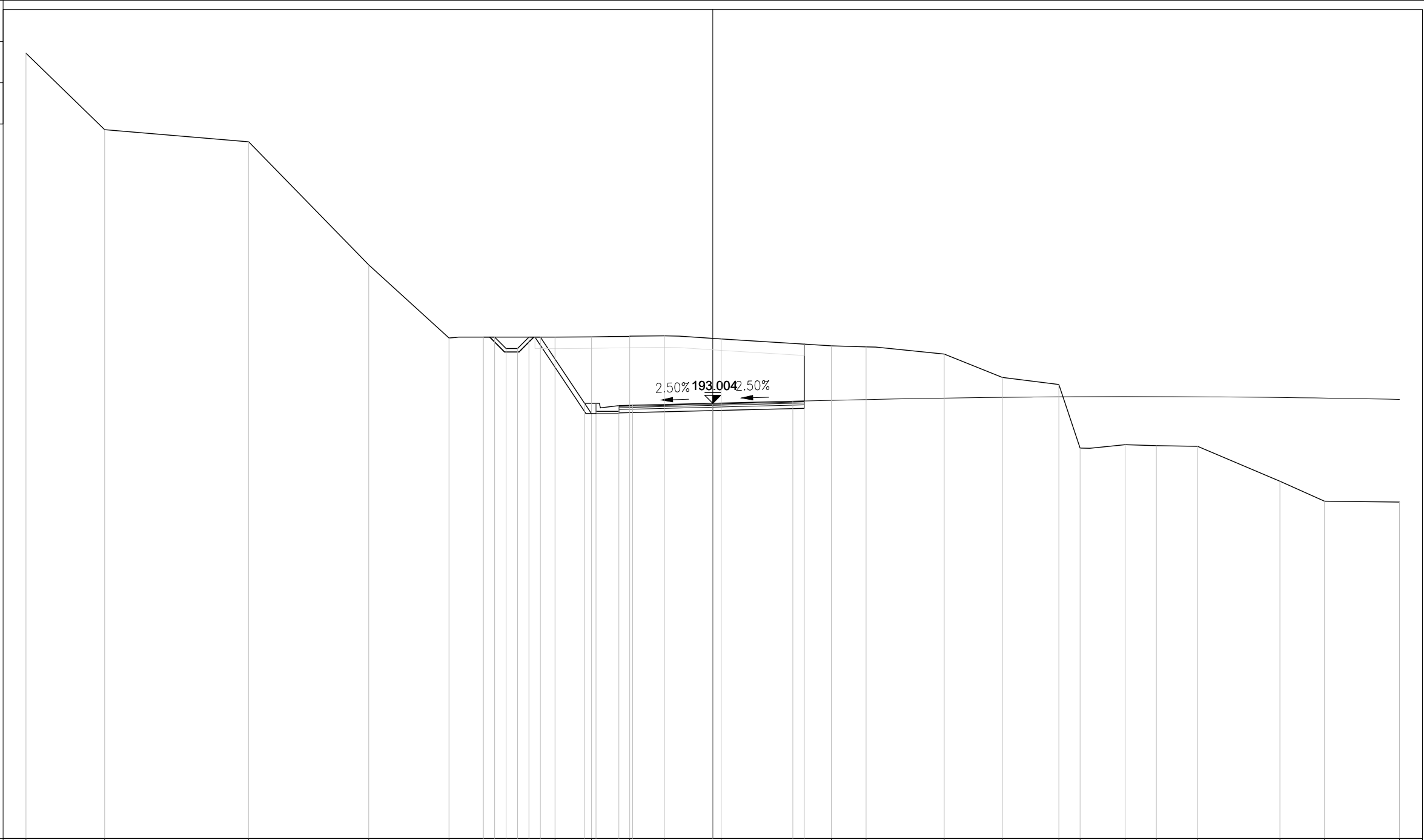


PROFILO L2 NV02

SEZIONE 9B

PROGRESSIVA 408.96

Scavo B1	35.00 m <sup>2</sup>
Scotico Scavo CB1	5.88 m <sup>2</sup>
Vegetale D1	0.16 m <sup>2</sup>
Usura EA1	0.43 m <sup>2</sup>
Binder EB1	0.49 m <sup>2</sup>
Base EC1	1.37 m <sup>2</sup>
Fondazione ED1	1.35 m <sup>2</sup>
Fosso Scavo FB1	0.83 m <sup>2</sup>



200  
200

PROGRESSIVE TERRENO	-30.00	-26.56	-20.28	-15.02	-11.52	-6.89	-5.29	-3.63	-2.12	0.37	5.18	6.70	10.11	12.65	15.12	16.05	18.02	19.38	21.18	24.77	26.72	30.00	
PARZIALI TERRENO	3.44	6.28	5.26	3.50	4.63	1.60	1.66	1.51	2.49	4.81	1.52	3.41	2.54	2.47	0.93	1.97	1.36	1.80	3.59	1.95	3.28		
QUOTE TERRENO	208.29	204.95	204.42	199.05	195.86	195.89	195.90	195.92	195.95	195.81	195.51	195.47	195.15	194.13	193.82	191.05	191.19	191.15	191.12	189.60	188.73	188.69	
PROGRESSIVE PROGETTO						-10.03	-10.03	-9.53	-9.03	-8.53	-8.03	-7.53	-5.60	-5.10	-4.10	-3.50	0.00	3.50	4.00				
PARZIALI PROGETTO					0.50	0.50	0.50	0.50	0.50	1.93	0.50	1.00	0.60	3.50	3.50	0.50							
QUOTE PROGETTO					195.89	195.89	195.89	195.39	195.89	195.89	193.00	193.00	192.90	192.92	193.00	193.09	193.10						



PROFILO L2 NV02

SEZIONE 10B

PROGRESSIVA 474.30

Scavo	
B1	8.20 m <sup>2</sup>
Scotico Scavo	
CB1	5.56 m <sup>2</sup>
Vegetale	
D1	0.41 m <sup>2</sup>
Usura	
EA1	0.38 m <sup>2</sup>
Binder	
EB1	0.49 m <sup>2</sup>
Base	
EC1	1.37 m <sup>2</sup>
Fondazione	
ED1	1.21 m <sup>2</sup>
Usura marciap.	
GA1	0.04 m <sup>2</sup>
Massetto marciap.	
GB1	0.13 m <sup>2</sup>
Fondazione marciap.	
GC1	0.20 m <sup>2</sup>

179

200  
200

2.50% 193.482 1.15%

PROGRESSIVE TERRENO	-30.00	-26.85	-26.10		-20.53	-19.82	-18.74		-16.88	-15.78	-14.63	-13.04	-11.61	-9.38	-6.88	-5.29	-2.33		5.43		11.35		14.43	15.50	15.64	16.19	19.49		25.30		30.00
PARZIALI TERRENO		3.15	0.75	5.57	0.71	1.08	1.86	1.10	1.15	1.59	1.43	2.23	2.50	1.59	2.96		7.76		5.92		3.08	1.07	0.14	0.55	3.30		5.81		4.70		
QUOTE TERRENO	200.77	197.67	196.64		196.05	194.17	193.89		193.81	193.78	193.83	193.90	193.98	193.94	193.91	194.02	193.86		193.77		193.64	193.70	202.94	198.83	193.71	197.56		204.02		199.89	
PROGRESSIVE PROGETTO															-6.65	-6.07	-5.57														
PARZIALI PROGETTO															0.58	0.50	1.50	0.57	3.50												
QUOTE PROGETTO															193.93	193.54	193.54	193.38	193.39	193.48			193.52	193.53							



PROFILO L2 NV02

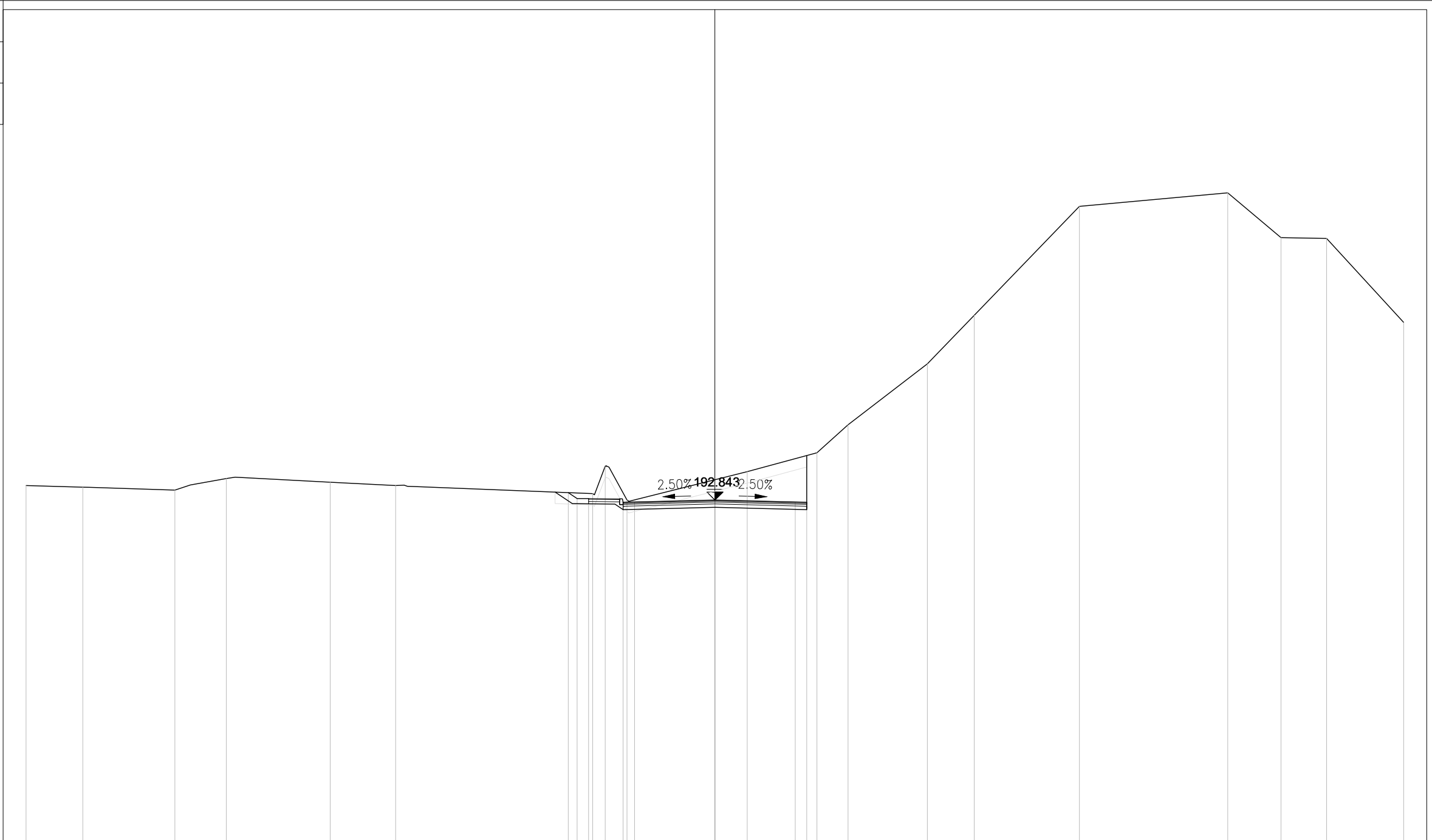
SEZIONE 12

PROGRESSIVA 501.82

Scavo B1	13.10 m <sup>2</sup>
Scotico Scavo CB1 Vegetale	5.47 m <sup>2</sup>
D1	0.34 m <sup>2</sup>
Usura EA1	0.44 m <sup>2</sup>
Binder EB1	0.48 m <sup>2</sup>
Base EC1	1.36 m <sup>2</sup>
Fondazione ED1	1.20 m <sup>2</sup>
Usura marciap.	
GA1	0.04 m <sup>2</sup>
Massetto marciap.	
GB1	0.13 m <sup>2</sup>
Fondazione marciap.	
GC1	0.20 m <sup>2</sup>

178

200



PROGRESSIVE TERRENO	-30.00	-27.53	-23.52	-21.28		-16.76	-13.91		-5.33	-4.78	-3.83		1.41	4.44	5.80	9.25	11.29	15.87	22.34	24.66	26.64	30.00		
PARZIALI TERRENO		2.47	4.01	2.24	4.52	2.85	8.58		0.55	0.95	5.24		3.03	1.36	3.45	2.04	4.58	6.47	2.32	1.98	3.36			
QUOTE TERRENO	193.47	193.40	193.27	193.78	193.62	193.47			193.12	194.32	192.84		194.08	194.90	196.12	198.77	200.89	205.63	206.22	204.27	204.24	200.58		
PROGRESSIVE PROGETTO									-6.39	-6.00	-5.50	-4.00	-3.50	0.00	3.50	4.00								
PARZIALI PROGETTO									0.39	0.50	1.50	0.50	3.50	3.50	0.50									
QUOTE PROGETTO									193.16	192.91	192.91	192.74	192.76	192.84	192.76	192.74								