Consorzio di Bonifica
PIANURA DI FERRARA

CONSORZIO DI BONIFICA PIANURA DI FERRARA

Sede legale e recapito postale:
44121 Ferrara - Via Borgo dei Leoni, 28 - C.F. 93076450381
web: www.bonificaferrara.it - e-mail: info@bonificaferrara.it
pec: posta.certificata@pec.bonificaferrara.it
aderente all'ANBI
Associazione Nazionale Bonifiche, Irrigazioni e Miglioramenti Fondiari

PROGETTO ESPURGHI

PROGETTO ESECUTIVO

Provincia di Ferrara

Ricalibratura della rete di bonifica ai fini del recupero della capacità di invaso e di portata

2° STRALCIO

ELABORATI GRAFICI CANALI

CANALE BULGARELLO

SEZIONI TRASVERSALI DALLA 1F ALLA 15

Data: **03.09.2024**

Elab.: **7.5.5**

IL PROGETTISTA
(Dott. Ing. Laura Montanari)

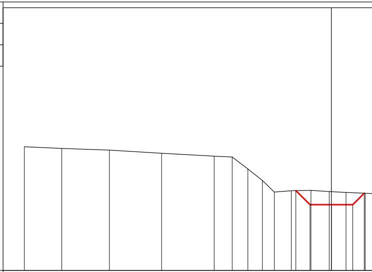
INGEGNERE
LAURA MONTANARI
LAUREA SPECIALISTICA
Sezione: A
N° 7792 / A

IL RESPONSABILE UNICO DEL PROGETTO
(Dott. Ing. Valeria Chierici)

Valeria Chierici

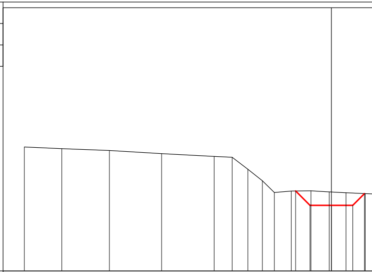
Rev.	Descrizione	Redatto	Data	Codice Intervento
00	Emissione	Mazzanti C.	03.09.2024	**OC168**

PROFILO CA. BULGARELLO
SEZIONE 1F
PROGRESSIVA 0



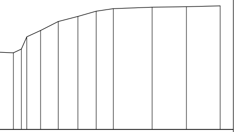
QUOTE TERRENO	9.33	9.27	9.21	9.10	9.00	8.97	8.55	8.15	7.74	7.79	7.80	7.76	7.73	7.70
PROGRESSIVE TERRENO	−10.76	−9.45	−7.77	−5.95	−4.11	−3.48	−2.92	−2.41	−2.00	−1.40	−0.72	−0.08	0.51	1.19
QUOTE PROGETTO										7.79	7.30	7.30	7.30	7.70
PROGRESSIVE PROGETTO										−1.24	−0.75	0.00	0.75	1.15

PROFILO CA. BULGARELLO
SEZIONE 1
PROGRESSIVA 18



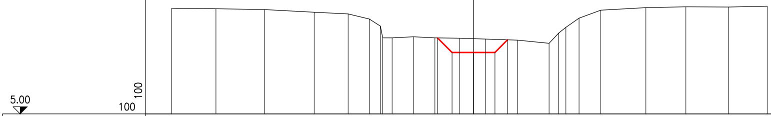
QUOTE TERRENO	9.33	9.27	9.21	9.10	9.00	8.97	8.55	8.15	7.74	7.79	7.80	7.76	7.73	7.70
PROGRESSIVE TERRENO	−10.76	−9.45	−7.77	−5.95	−4.11	−3.48	−2.92	−2.41	−2.00	−1.40	−0.72	−0.08	0.51	1.19
QUOTE PROGETTO										7.79	7.29	7.29	7.29	7.70
PROGRESSIVE PROGETTO										−1.25	−0.75	0.00	0.75	1.16

Esecuzione e restituzione grafica rilievo: ASTOLFI N.



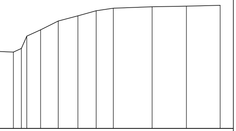
7.67	7.80	8.23	8.45	8.76	8.94	9.12	9.21	9.26	9.28	9.31
1.89	2.17	2.37	2.85	3.47	4.15	4.79	5.39	6.75	7.96	9.13

PROFILO CA. BULGARELLO
SEZIONE 2
PROGRESSIVA 320



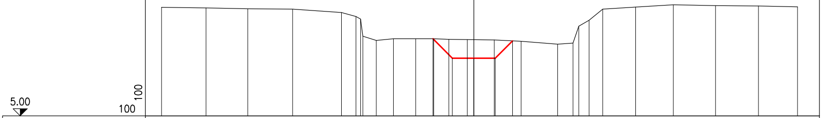
QUOTE TERRENO	8.70	8.68	8.65	8.56	8.50	8.32	8.07	7.66	7.66	7.70	7.66	7.65	7.62	7.58	7.47	7.83	8.03	8.35	8.63	8.72	8.75	8.74	8.77
PROGRESSIVE TERRENO	−10.57	−9.02	−7.32	−5.58	−4.39	−3.65	−3.26	−3.18	−2.85	−2.10	−1.35	−0.48	0.42	1.55	2.65	2.99	3.24	3.70	4.46	6.04	7.44	8.93	10.29

QUOTE PROGETTO	7.66	7.15	7.15	7.15	7.59
PROGRESSIVE PROGETTO	−1.26	−0.75	0.00	0.75	1.19



7.67	7.80	8.23	8.45	8.76	8.94	9.12	9.21	9.26	9.28	9.31
1.89	2.17	2.37	2.85	3.47	4.15	4.79	5.39	6.75	7.96	9.13

PROFILO CA. BULGARELLO
SEZIONE 3
PROGRESSIVA 616



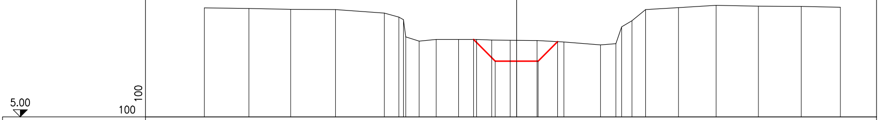
QUOTE TERRENO	8.80	8.78	8.75	8.74	8.62	8.48	8.39	7.79	7.64	7.70	7.70	7.70	7.68	7.67	7.66	7.61	7.51	7.55	8.14	8.35	8.74	8.81	8.89	8.86	8.85	8.82
PROGRESSIVE TERRENO	−10.93	−9.38	−7.91	−6.34	−4.63	−4.13	−3.96	−3.88	−3.41	−2.81	−2.03	−1.40	−0.88	−0.22	0.72	1.66	2.94	3.48	3.68	4.04	4.52	5.67	6.99	8.47	9.97	11.34

QUOTE PROGETTO	7.70	7.02	7.02	7.02	7.63
PROGRESSIVE PROGETTO	−1.43	−0.75	0.00	0.75	1.36

PROFILO CA. BULGARELLO

SEZIONE 3F

PROGRESSIVA 793



QUOTE TERRENO	8.80	8.78	8.75	8.74	8.62	8.48	8.39	7.79	7.64	7.70	7.70	7.70	7.68	7.67	7.66	7.61	7.51	7.55	8.14	8.35	8.74	8.81	8.89	8.86	8.85	8.82
PROGRESSIVE TERRENO	−10.93	−9.38	−7.91	−6.34	−4.63	−4.13	−3.96	−3.88	−3.41	−2.81	−2.03	−1.40	−0.88	−0.22	0.72	1.66	2.94	3.48	3.68	4.04	4.52	5.67	6.99	8.47	9.97	11.34

QUOTE PROGETTO	7.70	6.94	6.94	6.94	7.62
PROGRESSIVE PROGETTO	−1.51	−0.75	0.00	0.75	1.43

PROFILO CA. BULGARELLO

SEZIONE 4

PROGRESSIVA 921

5.00
100
100

QUOTE TERRENO

PROGRESSIVE TERRENO

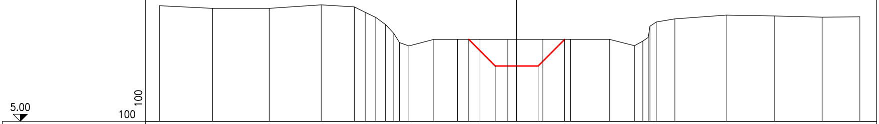
QUOTE PROGETTO

PROGRESSIVE PROGETTO

PROFILO CA. BULGARELLO

SEZIONE 4F

PROGRESSIVA 803



QUOTE TERRENO	9.05	8.96	8.96	9.08	9.01	8.82	8.64	8.39	8.08	7.76	7.64	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.65	7.81	7.94	8.33	8.48	8.59	8.72	8.69	8.65	8.66
PROGRESSIVE TERRENO	−12.51	−10.65	−8.66	−6.84	−5.68	−5.30	−4.93	−4.59	−4.30	−4.10	−3.77	−2.90	−2.07	−1.28	−0.31	0.92	1.89	3.26	4.13	4.42	4.61	4.67	4.89	5.54	7.34	9.03	10.70	12.02

QUOTE PROGETTO	7.87	6.94	6.94	6.94	7.87
PROGRESSIVE PROGETTO	−1.68	−0.75	0.00	0.75	1.68

PROFILO CA. BULGARELLO

SEZIONE 5

PROGRESSIVA 1188

5.00
100
100

QUOTE TERRENO

PROGRESSIVE TERRENO

QUOTE PROGETTO

PROGRESSIVE PROGETTO

PROFILO CA. BULGARELLO

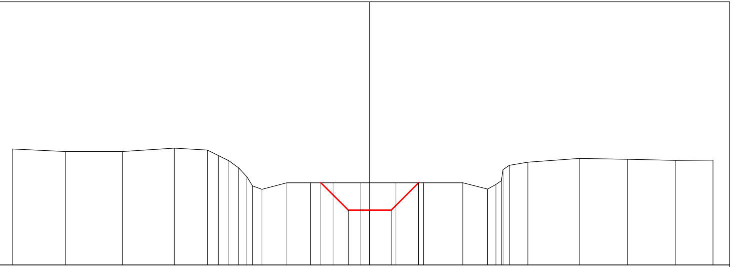
SEZIONE 6

PROGRESSIVA 1465

5.00

100

100



QUOTE TERRENO	9.05	8.96	8.96	9.08	9.01	8.82	8.64	8.39	8.08	7.76	7.64	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.65	7.81	7.94	8.33	8.48	8.59	8.72	8.69	8.65	8.66
PROGRESSIVE TERRENO	−12.51	−10.65	−8.66	−6.84	−5.68	−5.30	−4.93	−4.59	−4.30	−4.10	−3.77	−2.90	−2.07	−1.28	−0.31	0.92	1.89	3.26	4.13	4.42	4.61	4.67	4.89	5.54	7.34	9.03	10.70	12.02

QUOTE PROGETTO	7.87	6.91	6.91	6.91	7.87
PROGRESSIVE PROGETTO	−1.71	−0.75	0.00	0.75	1.71

9.62

−10.33

PROFILO CA. BULGARELLO

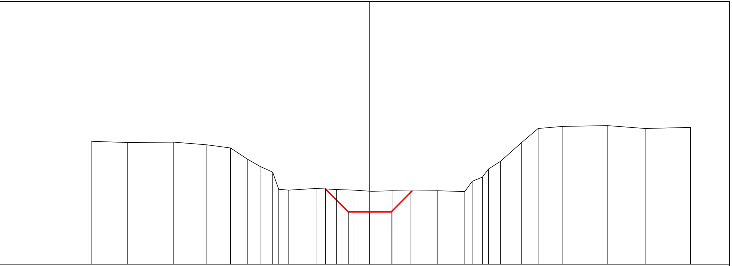
SEZIONE 7

PROGRESSIVA 1755

5.00

100

100



QUOTE TERRENO	9.30	9.26	9.27	9.18	9.07	8.68	8.42	8.22	7.62	7.59	7.65	7.61	7.59	7.55	7.57	7.56	7.57	7.54	7.90	8.05	8.33	8.60	9.25	9.75	9.82	9.85	9.75	9.79
PROGRESSIVE TERRENO	−9.74	−8.48	−6.87	−5.71	−4.88	−4.29	−3.84	−3.40	−3.19	−2.84	−1.88	−1.16	−0.55	0.08	0.78	1.44	2.38	3.33	3.59	3.95	4.16	4.58	5.31	5.90	6.74	8.32	9.65	11.24

QUOTE PROGETTO	7.63	6.83	6.83	6.83	7.56
PROGRESSIVE PROGETTO	−1.55	−0.75	0.00	0.75	1.48

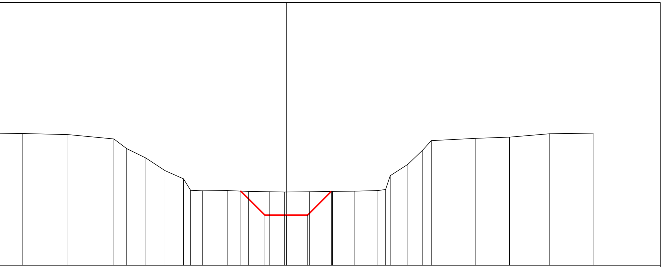
9.61

−11.43

PROFILO CA. BULGARELLO

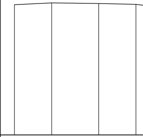
SEZIONE 8

PROGRESSIVA 2078



PROGRESSIVE TERRENO	QUOTE TERRENO
−9.23	9.61
−7.65	9.57
−6.04	9.42
−5.59	9.08
−4.92	8.75
−4.25	8.31
−3.60	8.02
−3.35	7.62
−2.94	7.60
−2.07	7.61
−1.33	7.58
−0.58	7.57
−0.06	7.56
0.82	7.57
1.62	7.58
2.40	7.59
3.21	7.61
3.48	7.65
3.64	8.13
4.26	8.53
4.78	9.03
5.08	9.36
6.64	9.44
7.82	9.48
9.23	9.60
10.75	9.62

PROGRESSIVE PROGETTO	QUOTE PROGETTO
−1.59	7.59
−0.75	6.75
0.00	6.75
0.75	6.75
1.58	7.58

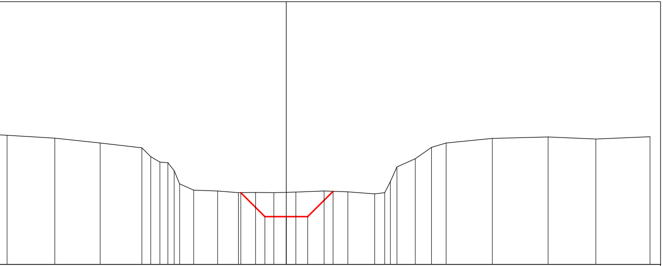


PROGRESSIVE TERRENO	QUOTE TERRENO
−13.51	9.56
−12.21	9.62
−10.57	9.60
−9.27	9.57

PROFILO CA. BULGARELLO

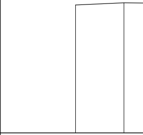
SEZIONE 9

PROGRESSIVA 2381

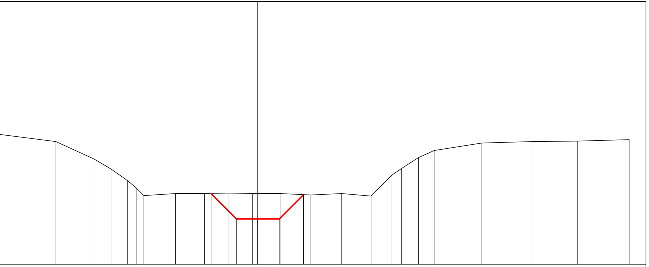


PROGRESSIVE TERRENO	QUOTE TERRENO
−9.78	9.52
−8.11	9.42
−6.52	9.25
−5.06	9.08
−4.75	8.77
−4.43	8.58
−4.15	8.56
−3.93	8.28
−3.74	7.82
−3.25	7.60
−2.41	7.57
−1.68	7.51
−1.08	7.52
−0.44	7.51
0.33	7.53
1.32	7.57
2.15	7.54
3.09	7.47
3.44	7.51
3.64	7.90
3.88	8.41
4.51	8.70
5.08	9.10
5.59	9.25
7.21	9.41
9.16	9.46
10.83	9.39
12.73	9.47

PROGRESSIVE PROGETTO	QUOTE PROGETTO
−1.59	7.51
−0.75	6.67
0.00	6.67
0.75	6.67
1.64	7.56



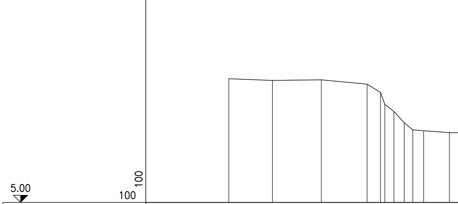
PROGRESSIVE TERRENO	QUOTE TERRENO
−11.38	9.46
−9.69	9.54



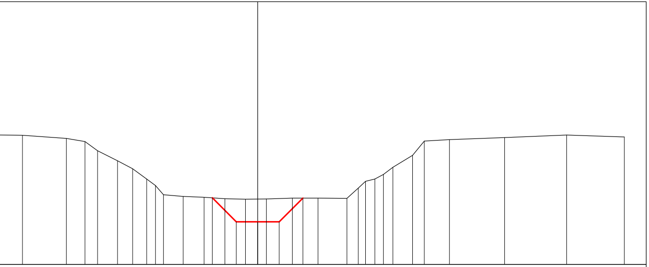
9.29	8.68	8.33	7.93	7.67	7.40	7.47	7.47	7.46	7.47	7.47	7.42	7.47	7.38	8.12	8.35	8.73	8.98	9.24	9.29	9.31	9.36
−7.07	−5.74	−5.14	−4.57	−4.26	−3.99	−2.88	−1.87	−1.01	−0.18	0.78	1.86	2.94	3.97	4.70	5.04	5.63	6.18	7.85	9.61	11.21	13.01

7.47	6.58	6.58	6.58	7.43
−1.64	−0.75	0.00	0.75	1.60

PROFILO CA. BULGARELLO
SEZIONE 10
PROGRESSIVA 2681



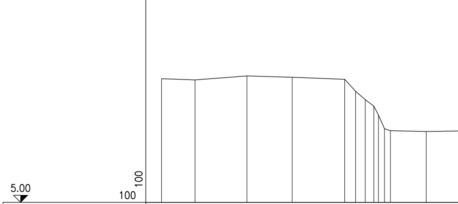
QUOTE TERRENO	9.33	9.27	9.29	9.14	8.85	8.43	8.18	7.79	7.54	7.51	7.44
PROGRESSIVE TERRENO	−10.60	−9.07	−7.36	−5.76	−5.29	−5.14	−4.82	−4.46	−4.16	−3.78	−2.88
QUOTE PROGETTO											
PROGRESSIVE PROGETTO											



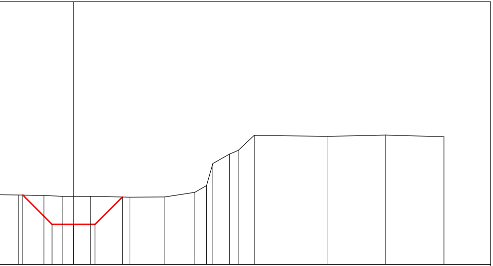
9.52	9.41	9.30	8.98	8.63	8.35	7.99	7.76	7.44	7.38	7.35	7.30	7.28	7.29	7.32	7.32	7.31	7.67	7.91	7.99	8.15	8.40	8.82	9.32	9.37	9.44	9.53	9.46
−8.24	−6.70	−6.05	−5.61	−4.91	−4.38	−3.89	−3.58	−3.30	−2.61	−1.88	−1.15	−0.43	0.30	1.21	2.11	3.12	3.52	3.77	4.10	4.40	4.73	5.42	5.83	6.71	8.64	10.81	12.83

7.33	6.49	6.49	6.49	7.32
−1.59	−0.75	0.00	0.75	1.58

PROFILO CA. BULGARELLO
SEZIONE 11
PROGRESSIVA 2964



QUOTE TERRENO	9.33	9.29	9.43	9.38	9.31	8.89	8.60	8.37	8.06	7.58	7.51	7.48
PROGRESSIVE TERRENO	−12.95	−11.78	−9.96	−8.38	−6.54	−6.16	−5.82	−5.52	−5.36	−5.15	−4.94	−3.69
QUOTE PROGETTO												
PROGRESSIVE PROGETTO												

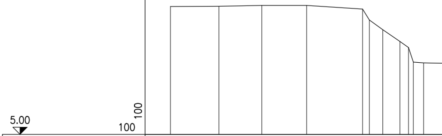


	7.43	7.41	7.38	7.38	7.35	7.36	7.52	7.76	8.53	8.86	8.99	9.52	9.48	9.53	9.47
	−1.93	−1.04	−0.38	0.59	1.97	3.19	4.24	4.65	4.88	5.45	5.76	6.32	8.88	10.91	12.96
	7.43	6.40	6.40	6.40	7.36										
	−1.78	−0.75	0.00	0.75	1.71										

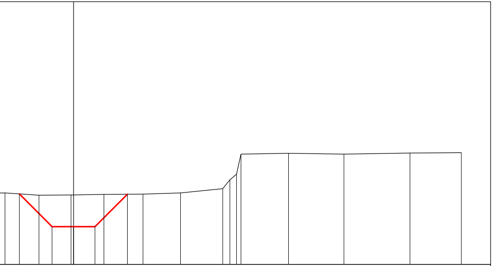
PROFILO CA. BULGARELLO

SEZIONE 12

PROGRESSIVA 3259



QUOTE TERRENO	9.46	9.47	9.50	9.50	9.37	8.99	8.65	8.24	8.03	7.52	7.49
PROGRESSIVE TERRENO	−13.11	−11.41	−9.91	−8.34	−6.38	−6.14	−5.67	−5.07	−4.77	−4.60	−4.24
QUOTE PROGETTO											
PROGRESSIVE PROGETTO											

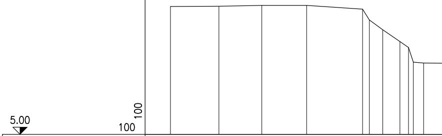


	7.50	7.42	7.43	7.45	7.46	7.50	7.65	7.96	8.16	8.86	8.89	8.86	8.90	8.91
	−2.40	−1.21	−0.09	1.06	2.43	3.74	5.22	5.47	5.70	5.86	7.52	9.46	11.77	13.57
	7.47	6.32	6.32	6.32	7.46									
	−1.90	−0.75	0.00	0.75	1.89									

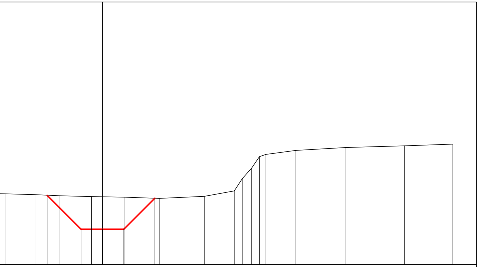
PROFILO CA. BULGARELLO

SEZIONE 12F

PROGRESSIVA 3434



QUOTE TERRENO	9.46	9.47	9.50	9.50	9.37	8.99	8.65	8.24	8.03	7.52	7.49
PROGRESSIVE TERRENO	−13.11	−11.41	−9.91	−8.34	−6.38	−6.14	−5.67	−5.07	−4.77	−4.60	−4.24
QUOTE PROGETTO											
PROGRESSIVE PROGETTO											

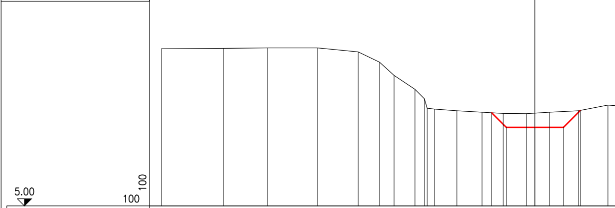


7.48	7.45		7.41		7.38		7.36		7.32	7.39	7.58	8.01	8.38	8.78	8.86	9.00	9.10	9.16	9.22
−3.41	−2.36		−1.52		−0.38		0.79		1.99	3.57	4.62	4.90	5.23	5.50	5.73	6.78	8.53	10.59	12.28
		7.43		6.24		6.24	6.24	7.33											
		−1.94		−0.75		0.00	0.75	1.84											

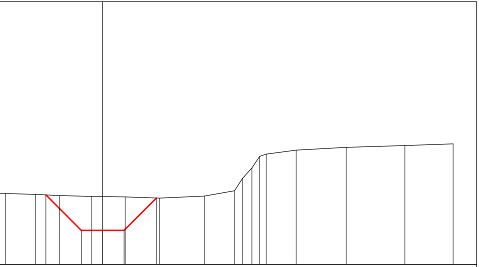
PROFILO CA. BULGARELLO

SEZIONE 13F

PROGRESSIVA 3444



QUOTE TERRENO	10.49	10.50	10.52	10.52	10.38	10.02	9.56	9.07	8.74	8.41	8.38	8.32	8.27		8.23		8.22		8.27		8.32	8.52
PROGRESSIVE TERRENO	−13.08	−10.91	−9.37	−7.62	−6.19	−5.44	−4.93	−4.20	−3.87	−3.77	−3.52	−2.73	−1.85		−1.11		−0.30		0.52		1.53	2.56
QUOTE PROGETTO														8.25		7.74		7.74		7.74	8.33	
PROGRESSIVE PROGETTO														−1.51		−1.00		0.00		1.00	1.59	

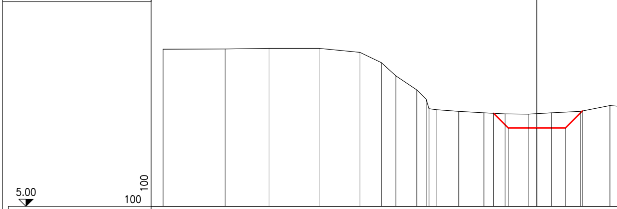


7.48	7.45		7.41		7.38		7.36		7.32	7.39	7.58	8.01	8.38	8.78	8.86	9.00	9.10	9.16	9.22
−3.41	−2.36		−1.52		−0.38		0.79		1.99	3.57	4.62	4.90	5.23	5.50	5.73	6.78	8.53	10.59	12.28
		7.43		6.19		6.19	6.19	7.32											
		−1.99		−0.75		0.00	0.75	1.88											

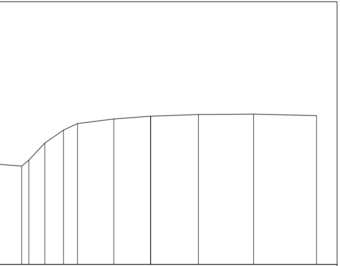
PROFILO CA. BULGARELLO

SEZIONE 13

PROGRESSIVA 3506



QUOTE TERRENO	10.49	10.50	10.52	10.52	10.38	10.02	9.56	9.07	8.74	8.41	8.38	8.32	8.27		8.23		8.22		8.27		8.32	8.52
PROGRESSIVE TERRENO	−13.08	−10.91	−9.37	−7.62	−6.19	−5.44	−4.93	−4.20	−3.87	−3.77	−3.52	−2.73	−1.85		−1.11		−0.30		0.52		1.53	2.56
QUOTE PROGETTO														8.25		7.74		7.74		7.74	8.33	
PROGRESSIVE PROGETTO														−1.51		−1.00		0.00		1.00	1.59	

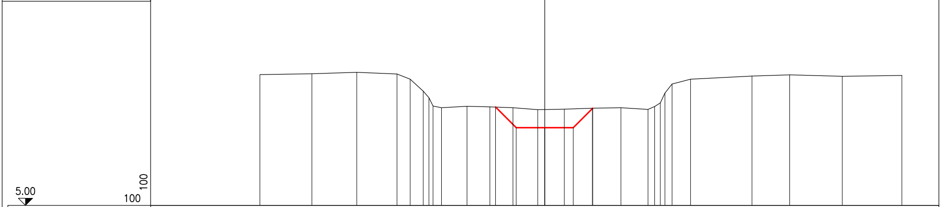


8.44	3.57
8.65	3.82
9.25	4.38
9.70	5.03
9.93	5.52
10.09	6.79
10.19	8.08
10.19	8.08
10.25	9.75
10.26	11.68
10.21	13.88

PROFILO CA. BULGARELLO

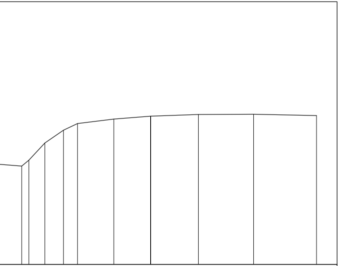
SEZIONE 14

PROGRESSIVA 3862



QUOTE TERRENO	PROGRESSIVE TERRENO
9.58	−9.97
9.61	−8.15
9.66	−6.58
9.60	−5.17
9.42	−4.71
9.00	−4.25
8.77	−4.05
8.48	−3.91
8.42	−3.61
8.47	−2.72
8.45	−1.92
8.42	−1.11
8.35	−0.24
8.37	0.69
8.40	1.67
8.42	2.67
8.36	3.62
8.46	3.85
8.59	4.05
8.93	4.21
9.25	4.46
9.42	5.11
9.53	7.26
9.57	8.58
9.52	10.42
9.55	12.51

QUOTE PROGETTO	PROGRESSIVE PROGETTO
8.44	−1.72
7.72	−1.00
7.72	0.00
7.72	1.00
8.40	1.68

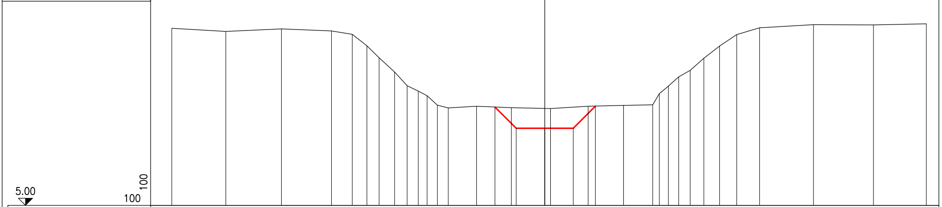


8.44	3.57
8.65	3.82
9.25	4.38
9.70	5.03
9.93	5.52
10.09	6.79
10.19	8.08
10.19	8.08
10.25	9.75
10.26	11.68
10.21	13.88

PROFILO CA. BULGARELLO

SEZIONE 15

PROGRESSIVA 4138



QUOTE TERRENO	PROGRESSIVE TERRENO
11.20	−13.06
11.09	−11.17
11.18	−9.22
11.11	−7.47
10.99	−6.74
10.59	−6.23
10.17	−5.80
9.67	−5.26
9.19	−4.82
9.00	−4.43
8.84	−4.12
8.51	−3.76
8.41	−3.38
8.47	−2.39
8.42	−1.17
8.39	0.20
8.47	1.52
8.50	2.76
8.52	3.78
8.91	4.01
9.18	4.33
9.50	4.69
9.73	5.09
10.15	5.57
10.58	6.12
10.98	6.72
11.22	7.52
11.33	9.41
11.32	11.51
11.36	13.36

QUOTE PROGETTO	PROGRESSIVE PROGETTO
8.44	−1.74
7.70	−1.00
7.70	0.00
7.70	1.00
8.48	1.78

7.5.X - OC168.PE0 - CBulgarello | Profilo e Sezioni 1=0.1