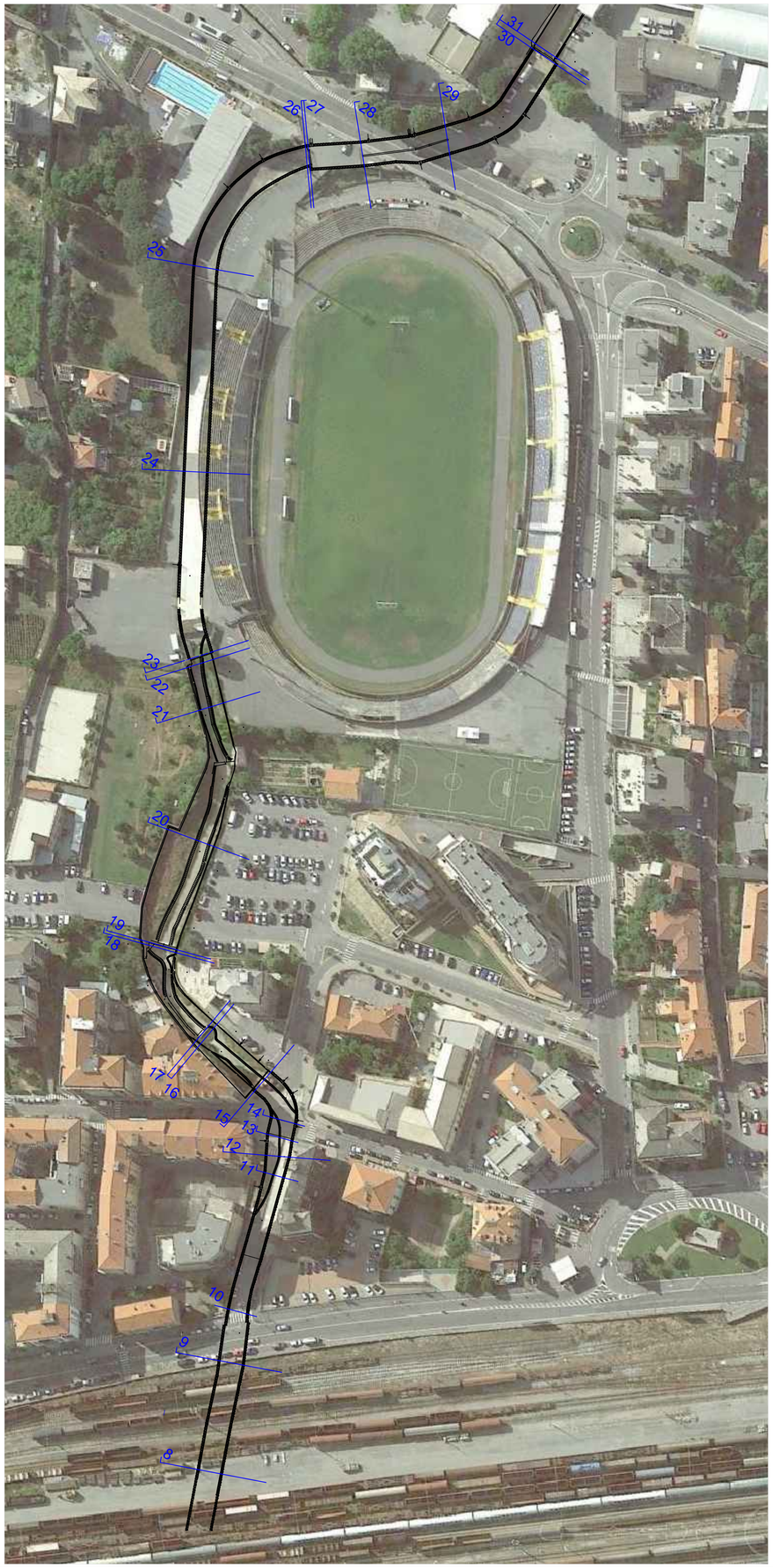


B2 - PROGETTO CON DEPOSITI
(DEPOSITO PARI A CIRCA 20% DELL'ALTEZZA UTILE SOTTO LE COPERTURE)

Sezione [-]		Quota pelo libero [m]	Quota argine Sx [m]	Quota argine Dx [m]	Quota intradosso [m]	Velocità [m/s]		Franco Necessario [m]	Reale Sx 50 [m]	Reale Sx 100 [m]	Reale Sx 200 [m]	Reale Dx 50 [m]	Reale Dx 100 [m]	Reale Dx 200 [m]
	TR50	11.95				5.01	0.50	**1.28**	3.25			3.28		
	TR100	12.40	15.20	15.21		5.41	0.50	**1.49**		2.80			2.83	
32	TR200	12.76				5.70	0.50	**1.66**			2.44			2.45
	TR50	9.85				6.72	0.50	**2.30**	1.98			1.97		
	TR100	10.08	11.83	11.82		7.27	0.50	**2.69**		1.75			1.74	
31	TR200	12.69				2.91	**0.50**	0.43			-0.88			-0.82
	TR50	11.42				2.95	**0.50**	0.44	-0.52			-0.50		
	TR100	11.92	10.90	10.90		3.19	0.50	**0.52**		-1.02			-1.00	
30	TR200	12.61				3.13	0.50	**0.50**			-1.73			-1.71
	TR50	10.96				3.73	0.50	**0.71**	0.54			0.54		
	TR100	11.53	11.50	11.50		3.78	0.50	**0.73**		-0.03			-0.02	
29	TR200	12.38				3.44	0.50	**0.60**			-0.88			-0.85
	TR50	10.96				3.73	**1.50**	0.71	0.54			0.54		
	TR100	11.53			11.50	3.78	**1.50**	0.73		-0.03			-0.02	
28.5 up	TR200	12.38				3.44	**1.50**	0.60			-0.88			-0.85
	TR50	10.98				3.14	**1.50**	0.50	0.52			0.52		
	TR100	11.48			11.50	3.36	**1.50**	0.58		0.02			0.02	
28.5 down	TR200	11.77				3.95	**1.50**	0.80			-0.27			-0.27
	TR50	10.98				3.14	**1.50**	0.50	0.52			0.52		
	TR100	11.48			11.50	3.36	**1.50**	0.58		0.02			0.02	
28	TR200	11.77				3.95	**1.50**	0.80			-0.27			-0.27
	TR50	10.25				4.61	**1.50**	1.08	0.75			0.75		
	TR100	10.62			11.00	5.00	**1.50**	1.27		0.38			0.38	
27	TR200	10.92				5.28	**1.50**	1.42			0.08			0.08
	TR50	9.87				5.29	0.50	**1.43**	0.63			0.63		
	TR100	10.22	10.50	10.50		5.67	0.50	**1.64**		0.28			0.28	
26	TR200	10.50				5.94	0.50	**1.80**			-0.00			-0.00
	TR50	8.22				6.32	0.50	**2.04**	1.28			1.28		
	TR100	8.53	9.50	9.50		6.71	0.50	**2.29**		0.97			0.97	
25	TR200	8.79				7.00	0.50	**2.50**			0.71			0.71
	TR50	8.11				4.68	0.50	**1.12**	1.39			1.39		
	TR100	8.49	9.50	9.50		5.07	0.50	**1.31**		1.01			1.01	
24	TR200	9.13				4.80	0.50	**1.17**			0.37			0.37
	TR50	7.34				4.89	0.50	**1.22**	1.16			1.16		
	TR100	7.76	8.50	8.50		5.24	0.50	**1.40**		0.76			0.76	
23	TR200	8.95				4.16	0.50	**0.88**			-0.45			-0.45
	TR50	6.82				5.74	0.50	**1.68**	2.08			3.38		
	TR100	7.07	8.90	10.00		6.25	0.50	**1.99**		1.83			2.93	
22	TR200	9.17				3.29	0.50	**0.55**			-0.27			0.83
	TR50	7.42				3.46	0.50	**0.61**	1.48			2.77		
	TR100	8.25	8.90	10.14		3.31	0.50	**0.56**		0.65			1.89	
21	TR200	9.16				3.07	**0.50**	0.48			-0.28			0.58
	TR50	7.34				2.62	**0.50**	0.35	1.16			2.34		
	TR100	8.35	8.50	9.68		2.09	**0.50**	0.22		0.15			1.33	
20	TR200	9.29				1.82	**0.50**	0.17			-0.75			0.39
	TR50	7.24				2.41	**0.50**	0.30	1.26			0.76		
	TR100	8.27	8.50	8.00		2.17	**0.50**	0.24		0.23			-0.27	
19	TR200	9.21				2.01	**0.50**	0.21			-0.77			-1.11
	TR50	7.30				2.05	**0.50**	0.21	1.08			1.24		
	TR100	8.30	8.38	8.54		1.96	**0.50**	0.20		0.08			0.26	
18	TR200	9.23				1.88	**0.50**	0.18			-0.85			-0.67
	TR50	7.17				2.28	**0.50**	0.26	1.38			0.73		
	TR100	8.19	8.55	7.90		2.17	**0.50**	0.24		0.36			-0.27	
17	TR200	9.14				2.08	**0.50**	0.22			-0.59			-1.24
	TR50	7.18				2.20	**0.50**	0.25	1.37			0.72		
	TR100	8.20	8.55	7.90		2.12	**0.50**	0.23		0.35			-0.38	
16	TR200	9.15				2.04	**0.50**	0.21			-0.66			-1.29
	TR50	6.89				2.98	**0.50**	0.45	0.61			0.63		
	TR100	7.96	7.50	7.50		2.84	**0.50**	0.41		-0.46			-0.46	
15	TR200	8.93				2.73	**0.50**	0.38			-1.43			-1.43
	TR50	6.81				3.07	**0.50**	0.48	0.19			0.19		
	TR100	7.91	7.00	7.00		2.88	**0.50**	0.42		-0.93			-0.93	
14	TR200	8.90				2.74	**0.50**	0.38			-1.90			-1.90
	TR50	6.81				3.07	**1.50**	0.48	0.19			0.19		
	TR100	7.91			7.00	2.88	**1.50**	0.42		-0.93			-0.93	
13.5 up	TR200	8.90				2.74	**1.50**	0.38			-1.90			-1.90
	TR50	6.79				3.10	**1.50**	0.49	0.21			0.21		
	TR100	7.61			7.00	3.56	**1.50**	0.65		-0.61			-0.61	
13.5 down	TR200	8.73				3.15	**1.50**	0.51			-1.73			-1.73
	TR50	6.79				3.10	**1.50**	0.49	0.21			0.21		
	TR100	7.61			7.00	3.56	**1.50**	0.65		-0.61			-0.61	
13	TR200	8.73				3.15	**1.50**	0.51			-1.73			-1.73
	TR50	6.63				3.46	**1.50**	0.61	0.37			0.37		
	TR100	7.40			7.00	3.89	**1.50**	0.77		-0.40			-0.40	
12	TR200	8.57				3.46	**1.50**	0.61			-1.57			-1.57
	TR50	6.59				3.48	**1.50**	0.62	0.41			0.41		
	TR100	7.35			7.00	3.88	**1.50**	0.77		-0.35			-0.35	
11	TR200	8.51				3.50	**1.50**	0.62			-1.53			-1.53
	TR50	6.39				3.48	**1.50**	0.62	0.61			0.61		
	TR100	7.05			7.00	3.63	**1.50**	0.67		-0.05			-0.05	
10	TR200	8.06				3.68	**1.50**	0.69			-1.06			-1.06
	TR50	6.39				3.48	**1.50**	0.62	0.61			0.61		
	TR100	7.05			7.00	3.63	**1.50**	0.67		-0.05			-0.05	
9.5 up	TR200	8.06				3.68	**1.50**	0.69			-1.06			-1.06
	TR50	6.31				3.50	**1.50**	0.62	0.69			0.69		
	TR100	6.97			7.00	3.60	**1.50**	0.66		0.03			0.03	
9.5 down	TR200	7.95				3.30	**1.50**	0.56			-0.95			-0.95
	TR50	6.31				3.50	0.50	**0.62**	0.79			0.79		
	TR100	6.97	7.10	7.10		3.60	0.50	**0.66**		0.13			0.13	
9	TR200	7.95				3.30	0.50	**0.56**			-0.83			-0.83
	TR50	6.31				3.50	**1.50**	0.62	0.79			0.79		
	TR100	6.97			7.10	3.60	**1.50**	0.66		0.13			0.13	
8.5 up	TR200	7.95				3.30	**1.50**	0.56			-0.83			-0.83
	TR50	6.15				3.51	**1.50**	0.63	0.95			0.95		
	TR100	6.81			7.10	3.63	**1.50**	0.67		0.29			0.29	
8.5 down	TR200	7.45				3.62	**1.50**	0.67			-0.33			-0.33
	TR50	6.15				3.51	0.50	**0.63**	0.95			0.95		
	TR100	6.81	7.10	7.10		3.63	0.50	**0.67**		0.29			0.29	
8	TR200	7.45				3.62	0.50	**0.67**			-0.33			-0.33
	TR50	6.15				3.51	**1.50**	0.63	-0.09			-0.09		
	TR100	6.81			6.06 7.09	3.63	**1.50**	0.67		** -0.75			** -0.75	
7.5 up	TR200	7.45				3.62	**1.50**	0.67			* -1.39			* -1.39
	TR50	4.96				4.11	**1.50**	0.86	1.10			1.10		
	TR100	5.64			6.06 7.09	4.10	**1.50**	0.86		0.42			0.42	
7.5 down	TR200	6.12				4.20	**1.50**	0.90			** -0.06			** -0.06
	TR50	4.96				4.11	0.50	**0.86**	2.83			2.83		
	TR100	5.64	7.79	7.79		4.10	0.50	**0.86**		2.15			2.15	
7	TR200	6.12				4.20	0.50	**0.90**			1.67			1.67
	TR50	4.96				4.11	**1.50**	0.86	1.10			1.10		
	TR100	5.64			6.06 7.09	4.10	**1.50**	0.86		0.42			0.42	
6.5 up	TR200	6.12				4.20	**1.50**	0.90			-0.06			-0.06
	TR50	3.47				4.65	**1.50**	1.10	2.61			2.63		
	TR100	3.08			6.06 7.09	7.23	1.50	**2.66**		3.00			3.00	
6.5 down	TR200	3.31				7.55	1.50	**2.91**			2.77			2.77
	TR50	3.47				4.65	**1.50**	1.10	4.32			4.32		
	TR100	3.08	7.79	7.79		7.23	**1.50**	2.66		4.71			4.73	
6	TR200	3.31				7.55	**1.50**	2.91			4.48			4.48
	TR50	2.73				5.88	**1.50**	1.76	2.82			2.82		
	TR100	2.70	5.55	5.55		7.63	**1.50**	2.97		2.85			2.85	
5	TR200	2.88				8.00	**1.50**	3.26			2.67			2.67
	TR50	3.10				4.33	**1.50**	0.96	1.75			1.58		
	TR100	2.88	4.85	4.68		6.25	**1.50**	1.99		1.97			1.80	
4	TR200	3.05				6.69	**1.50**	2.28			1.80			1.63

	Franco a norma
	Non viene rispettato il franco di legge ma la quota del pelo libero è inferiore alla quota arginale o di intradosso
	Quota di pelo libero tangente o superiore alla quota arginale o di intradosso
*	Non rispetta la quota in chiave
**	Non viene rispettata l'ampiezza di 2/3 prevista dalla norma

8 - 31 SEZIONI HEC-RAS

Progetto di fattibilità SETTEMBRE 2017



STUDIOGAGGERO
SAVONA - VIA PIA 130 R - TELEFAX 019/8386702 - TEL 019/829463 - CELL. 335/303133 - E-MAIL ing.gaggero@libero.it

Tav. 12

COMUNE DI SAVONA

ATTUAZIONE DEI PIANI DI BACINO
INTERVENTI DI MITIGAZIONE DEL RISCHIO IDRAULICO SUL RIO MOLINERO
-

PROGETTO CON DEPOSITI PERICOLOSITA' RESIDUA

N.P. 1827 | SCALA 1:1000

SETTEMBRE 2017 | File:C:\LAVORINP_\1827 RIO MOLINERO

Dott. ing. Paolo GAGGERO
C.F. GGGPLA49H20I480E
Collaboratore Dott. Ing. Luca ROSSI

ORDINE INGEGNERI DELLA PROVINCIA DI SAVONA
PAOLO GAGGERO