

NUOVA S.S. 341 "GALLARATESE" - TRATTO DA SAMARATE A CONFINE
CON LA PROVINCIA DI NOVARA - TRATTO NORD

STRALCIO FUNZIONALE DAL KM 6+500 (SVINCOLO S.S. 336 NORD)
AL KM 8+844 (SVINCOLO AUTOSTRADA A8)
"BRETELLA DI GALLARATE"

PROGETTO ESECUTIVO

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VISTO: IL RESPONSABILE DEL PROCEDIMENTO Dott. Ing. Giancarlo LUONGO	RESPONSABILE INTEGRAZIONE DELLE PRESTAZIONI SPECIALISTICHE  Ing. Renato DEL PRETE	IL PROGETTISTA FIRMATARIO DELLA PRESTAZIONE  Ing. Valerio BAJETTI	GEOLOGO  Prof. Ing. Geol. Luigi MONTERISI	COORDINATORE DELLA SICUREZZA IN FASE DI PROGETTAZIONE  Ing. Gaetano RANIERI

FA061

F-PROGETTO IDRAULICO
FA- RETICOLO IDROGRAFICO
Tabulato movimenti materia Canale Trapezio n. 04

CODICE PROGETTO		NOME FILE		REVISIONE	SCALA:
PROGETTO	LIV. PROG.	N. PROG.	FA061-P00ID01IDRCM04_A.dwg		
MI533	E	1801	CODICE ELAB.	P00ID01IDRCM04	A
					1:100
C					
B					
A	EMISSIONE		Maggio 2021	ING. MICHELE SCINTO	ING. VALERIO BAJETTI
REV.	DESCRIZIONE		DATA	REDATTO	VERIFICATO
					ING. RENATO DEL PRETE
					APPROVATO

		CALCOLO DELLE AREE	Foglio n. 1		
RINTERRO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
8 140.0	A1	$(-1.4--1.0) \times (235.1+235.4) / 2$ $(-0.8--1.4) \times (234.8+235.1) / 2$ $(0.0--0.8) \times (234.4+234.8) / 2$ $(-0.5--0.0) \times (235.4+235.4) / 2$ $(-1.0--0.5) \times (235.4+235.4) / 2$	-94.1 141.0 187.7 -117.7 -117.7		
9 160.0	A1	$(-1.3--1.0) \times (235.0+235.3) / 2$ $(-0.8--1.3) \times (234.7+235.0) / 2$ $(0.0--0.8) \times (234.3+234.7) / 2$ $(-0.5--0.0) \times (235.3+235.3) / 2$ $(-1.0--0.5) \times (235.3+235.3) / 2$	-70.5 117.4 187.6 -117.7 -117.7	0.8	
10 180.0	A1	$(-1.0--1.2) \times (236.1+236.0) / 2$ $(0.0--1.0) \times (236.1+236.1) / 2$ $(-1.2--0.0) \times (236.0+235.6) / 2$	47.2 236.1 -283.0	0.9	
11 200.0	A1	$(-0.8--0.9) \times (238.4+238.4) / 2$ $(0.0--0.8) \times (238.2+238.4) / 2$ $(-0.4--0.0) \times (238.4+238.4) / 2$ $(-0.9--0.4) \times (238.4+238.4) / 2$	23.8 190.6 -95.4 -119.2	0.3	
13 240.0	A1	$(-3.0--3.7) \times (238.8+238.3) / 2$ $(-2.5--3.0) \times (238.8+238.8) / 2$ $(-2.2--2.5) \times (238.5+238.8) / 2$ $(-3.7--2.2) \times (238.3+238.5) / 2$	167.0 119.4 71.6 -357.6	0.2	
13 240.0	A2	$(-1.0--1.2) \times (238.8+238.7) / 2$ $(-0.0--1.0) \times (238.8+238.8) / 2$ $(-1.2--0.0) \times (238.7+238.8) / 2$	47.7 238.8 -286.5	0.4	
14 260.0	A1	$(-2.5--3.0) \times (236.2+236.2) / 2$ $(-3.0--2.5) \times (236.2+236.2) / 2$	118.1 -118.1		
15 280.0	A1	$(-2.5--3.0) \times (235.9+235.9) / 2$ $(-3.0--2.5) \times (235.9+235.9) / 2$	118.0 -118.0		
15 280.0	A2	$(-0.0--1.0) \times (235.9+235.9) / 2$ $(-1.0--0.0) \times (235.9+235.9) / 2$	235.9 -235.9		
16 300.0	A1	$(-0.0--1.0) \times (236.3+236.3) / 2$ $(-1.0--0.0) \times (236.3+236.3) / 2$	236.3 -236.3		
17 320.0	A1	$(-3.0--4.9) \times (238.5+237.2) / 2$ $(-2.5--3.0) \times (238.5+238.5) / 2$ $(-2.0--2.5) \times (238.0+238.5) / 2$ $(-4.3--2.0) \times (237.4+238.0) / 2$ $(-4.9--4.3) \times (237.2+237.4) / 2$	451.9 119.3 119.1 -546.7 -142.4		
17 320.0	A2	$(-1.0--1.3) \times (238.5+238.1) / 2$ $(-0.0--1.0) \times (238.5+238.5) / 2$ $(-1.3--0.0) \times (238.1+238.5) / 2$	71.5 238.5 -309.8	1.2	
18 340.0	A1	$(-3.0--3.1) \times (240.1+240.1) / 2$ $(-2.5--3.0) \times (240.1+240.1) / 2$ $(-3.1--2.5) \times (240.1+240.1) / 2$	24.0 120.0 -144.1	0.2	
19 360.0	A1	$(-2.5--3.0) \times (240.8+240.8) / 2$ $(-2.6--2.5) \times (240.8+240.8) / 2$ $(-3.0--2.6) \times (240.7+240.8) / 2$	120.4 -24.1 -96.3	0.1	
20 364.4	A1	$(-3.0--3.1) \times (240.8+240.8) / 2$ $(-2.5--3.0) \times (240.8+240.8) / 2$ $(-2.7--2.5) \times (240.8+240.8) / 2$ $(-3.1--2.7) \times (240.8+240.8) / 2$	24.1 120.4 -48.2 -96.3		
20 364.4	A2	$(-0.0--1.0) \times (240.8+240.8) / 2$ $(-0.9--0.0) \times (240.8+240.8) / 2$ $(-1.0--0.9) \times (240.8+240.8) / 2$	240.8 -216.7 -24.1		
Il Direttore dei Lavori		L'Impresa			

		CALCOLO DELLE AREE	Foglio n. 2		
SCAVO FOSSO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
1 0.0	B1	$(-0.0--2.6) \times (234.2+234.3) / 2$ $(-1.0--0.0) \times (234.2+234.2) / 2$ $(-1.5--1.0) \times (233.7+234.2) / 2$ $(-2.0--1.5) \times (233.7+233.7) / 2$ $(-2.5--2.0) \times (234.2+233.7) / 2$ $(-2.6--2.5) \times (234.3+234.2) / 2$	609.1 -234.2 -117.0 -116.8 -117.0 -23.4		
2 20.0	B1	$(-1.2--2.6) \times (234.1+234.1) / 2$ $(0.0--1.2) \times (234.1+234.1) / 2$ $(-1.0-0.0) \times (234.1+234.1) / 2$ $(-1.5--1.0) \times (233.6+234.1) / 2$ $(-2.0--1.5) \times (233.6+233.6) / 2$ $(-2.5--2.0) \times (234.1+233.6) / 2$ $(-2.6--2.5) \times (234.1+234.1) / 2$	327.7 280.9 -234.1 -116.9 -116.8 -116.9 -23.4	0.7	
3 40.0	B1	$(-0.0--2.6) \times (234.2+234.2) / 2$ $(-1.0--0.0) \times (234.2+234.2) / 2$ $(-1.5--1.0) \times (233.7+234.2) / 2$ $(-2.0--1.5) \times (233.7+233.7) / 2$ $(-2.5--2.0) \times (234.2+233.7) / 2$ $(-2.6--2.5) \times (234.2+234.2) / 2$	608.9 -234.2 -117.0 -116.8 -117.0 -23.4		
4 60.0	B1	$(0.0--2.5) \times (234.3+234.3) / 2$ $(-1.0-0.0) \times (234.3+234.3) / 2$ $(-1.5--1.0) \times (233.8+234.3) / 2$ $(-2.0--1.5) \times (233.8+233.8) / 2$ $(-2.5--2.0) \times (234.3+233.8) / 2$	585.8 -234.3 -117.0 -116.9 -117.0	0.5	
5 80.0	B1	$(0.0--2.5) \times (234.2+234.2) / 2$ $(-1.0-0.0) \times (234.2+234.2) / 2$ $(-1.5--1.0) \times (233.7+234.2) / 2$ $(-2.0--1.5) \times (233.7+233.7) / 2$ $(-2.5--2.0) \times (234.2+233.7) / 2$	585.5 -234.2 -117.0 -116.8 -117.0	0.6	
6 100.0	B1	$(-0.1--2.6) \times (234.2+234.3) / 2$ $(0.0--0.1) \times (234.2+234.2) / 2$ $(-1.0-0.0) \times (234.2+234.2) / 2$ $(-1.5--1.0) \times (233.7+234.2) / 2$ $(-2.0--1.5) \times (233.7+233.7) / 2$ $(-2.5--2.0) \times (234.2+233.7) / 2$ $(-2.6--2.5) \times (234.3+234.2) / 2$	585.6 23.4 -234.2 -117.0 -116.8 -117.0 -23.4	0.5	
7 120.0	B1	$(-1.6--2.8) \times (234.8+234.9) / 2$ $(-0.8--1.6) \times (234.7+234.8) / 2$ $(0.0--0.8) \times (234.6+234.7) / 2$ $(-1.0-0.0) \times (234.6+234.6) / 2$ $(-1.5--1.0) \times (234.1+234.6) / 2$ $(-2.0--1.5) \times (234.1+234.1) / 2$ $(-2.5--2.0) \times (234.6+234.1) / 2$ $(-2.8--2.5) \times (234.9+234.6) / 2$	281.8 187.8 187.7 -234.6 -117.2 -117.0 -117.2 -70.4	0.6	
8 140.0	B1	$(-2.6--2.8) \times (235.7+235.7) / 2$ $(-1.4--2.6) \times (235.1+235.7) / 2$ $(-1.5--1.4) \times (234.9+235.1) / 2$ $(-2.0--1.5) \times (234.9+234.9) / 2$ $(-2.5--2.0) \times (235.4+234.9) / 2$ $(-2.8--2.5) \times (235.7+235.4) / 2$	47.1 282.5 -23.5 -117.5 -117.6 -70.7	0.9	
9 160.0	B1	$(-1.3--3.3) \times (235.0+236.1) / 2$ $(-1.5--1.3) \times (234.8+235.0) / 2$ $(-2.0--1.5) \times (234.8+234.8) / 2$ $(-2.5--2.0) \times (235.3+234.8) / 2$ $(-3.3--2.5) \times (236.1+235.3) / 2$	471.1 -47.0 -117.4 -117.5 -188.6	0.3	
10 180.0	B1	$(-2.0--2.8) \times (236.2+236.5) / 2$ $(-1.2--2.0) \times (236.0+236.2) / 2$ $(-1.5--1.2) \times (235.6+236.0) / 2$ $(-2.0--1.5) \times (235.6+235.6) / 2$ $(-2.5--2.0) \times (236.1+235.6) / 2$ $(-2.8--2.5) \times (236.5+236.1) / 2$	189.1 188.9 -70.7 -117.8 -117.9 -70.9	0.6	
11 200.0	B1	$(-0.9--3.0) \times (238.4+238.9) / 2$ $(-1.0--0.9) \times (238.4+238.4) / 2$ $(-1.5--1.0) \times (237.9+238.4) / 2$ $(-2.0--1.5) \times (237.9+237.9) / 2$ $(-2.5--2.0) \times (238.4+237.9) / 2$ $(-3.0--2.5) \times (238.9+238.4) / 2$	501.2 -23.8 -119.1 -119.0 -119.1 -119.3	0.7	
12 220.0	B1	$(-0.0--2.7) \times (239.4+239.6) / 2$ $(-1.0--0.0) \times (239.4+239.4) / 2$ $(-1.5--1.0) \times (238.9+239.4) / 2$ $(-2.0--1.5) \times (238.9+238.9) / 2$ $(-2.5--2.0) \times (239.4+238.9) / 2$ $(-2.7--2.5) \times (239.6+239.4) / 2$	646.7 -239.4 -119.6 -119.5 -119.6 -47.9	0.9	
13 240.0	B1	$(-1.2--2.2) \times (238.7+238.5) / 2$ $(-1.5--1.2) \times (238.3+238.7) / 2$ $(-2.0--1.5) \times (238.3+238.3) / 2$ $(-2.2--2.0) \times (238.5+238.3) / 2$	238.6 -71.6 -119.2 -47.7	0.7	
14 260.0	B1	$(-1.0--2.5) \times (236.2+236.2) / 2$ $(-1.5--1.0) \times (235.7+236.2) / 2$ $(-2.0--1.5) \times (235.7+235.7) / 2$ $(-2.5--2.0) \times (236.2+235.7) / 2$	354.3 -118.0 -117.8 -118.0	0.1	
15 280.0	B1	$(-2.3--2.5) \times (235.9+235.9) / 2$ $(-1.0--2.3) \times (235.9+235.9) / 2$ $(-1.5--1.0) \times (235.4+235.9) / 2$ $(-2.0--1.5) \times (235.4+235.4) / 2$ $(-2.5--2.0) \times (235.9+235.4) / 2$	47.2 306.7 -117.8 -117.7 -117.8	0.5	
16 300.0	B1	$(-1.4--2.5) \times (236.3+236.3) / 2$ $(-1.0--1.4) \times (236.3+236.3) / 2$ $(-1.5--1.0) \times (235.8+236.3) / 2$ $(-2.0--1.5) \times (235.8+235.8) / 2$ $(-2.5--2.0) \times (236.3+235.8) / 2$	259.9 94.5 -118.0 -117.9 -118.0	0.6	
				0.5	
A RIPORTARE mq					

		CALCOLO DELLE AREE	Foglio n. 3		
SCAVO FOSSO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTO mq					
17 320.0	B1	$(-1.3--2.0) \times (238.1+238.0) / 2$ $(-1.5--1.3) \times (238.0+238.1) / 2$ $(-2.0--1.5) \times (238.0+238.0) / 2$	166.6 -47.6 -119.0		
18 340.0	B1	$(-1.4--2.5) \times (240.2+240.1) / 2$ $(-1.3--1.4) \times (240.2+240.2) / 2$ $(0.0--1.3) \times (240.1+240.2) / 2$ $(-1.0-0.0) \times (240.1+240.1) / 2$ $(-1.5--1.0) \times (239.6+240.1) / 2$ $(-2.0--1.5) \times (239.6+239.6) / 2$ $(-2.5--2.0) \times (240.1+239.6) / 2$	264.2 24.0 312.2 -240.1 -119.9 -119.8 -119.9		
19 360.0	B1	$(-1.0--2.5) \times (240.8+240.8) / 2$ $(-1.5--1.0) \times (240.3+240.8) / 2$ $(-2.0--1.5) \times (240.3+240.3) / 2$ $(-2.5--2.0) \times (240.8+240.3) / 2$	361.2 -120.3 -120.2 -120.3	0.7	
20 364.4	B1	$(-1.0--2.5) \times (240.8+240.8) / 2$ $(-1.5--1.0) \times (240.3+240.8) / 2$ $(-2.0--1.5) \times (240.3+240.3) / 2$ $(-2.5--2.0) \times (240.8+240.3) / 2$	361.2 -120.3 -120.2 -120.3	0.4	
				0.4	
Il Direttore dei Lavori		L'Impresa			

		COMPUTO DEI VOLUMI					Foglio n. 4	
RINTERRO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
7	8	8	A1	0.8	20.0	10.0	8.0	8.0
8	9	8	A1	0.8	20.0	10.0	8.0	
140.0	160.0	9	A1	0.9	20.0	10.0	9.0	17.0
9	10	9	A1	0.9	20.0	10.0	9.0	
160.0	180.0	10	A1	0.3	20.0	10.0	3.0	12.0
10	11	10	A1	0.3	20.0	10.0	3.0	
180.0	200.0	11	A1	0.2	20.0	10.0	2.0	5.0
11	12	11	A1	0.2	20.0	10.0	2.0	2.0
12	13	13	A1	0.4	20.0	10.0	4.0	
220.0	240.0	13	A2	0.0	20.0	10.0	0.0	4.0
13	14	13	A1	0.4	20.0	10.0	4.0	
240.0	260.0	13	A2	0.0	20.0	10.0	0.0	
		14	A1	0.0	20.0	10.0	0.0	4.0
14	15	14	A1	0.0	20.0	10.0	0.0	
14	15	15	A1	0.0	20.0	10.0	0.0	
14	15	15	A2	0.0	20.0	10.0	0.0	
15	16	15	A1	0.0	20.0	10.0	0.0	
15	16	15	A2	0.0	20.0	10.0	0.0	
15	16	16	A1	0.0	20.0	10.0	0.0	
16	17	16	A1	0.0	20.0	10.0	0.0	
16	17	17	A1	1.2	20.0	10.0	12.0	
300.0	320.0	17	A2	0.2	20.0	10.0	2.0	14.0
17	18	17	A1	1.2	20.0	10.0	12.0	
320.0	340.0	17	A2	0.2	20.0	10.0	2.0	
		18	A1	0.1	20.0	10.0	1.0	15.0
18	19	18	A1	0.1	20.0	10.0	1.0	
340.0	360.0	19	A1	0.0	20.0	10.0	0.0	1.0
19	20	19	A1	0.0	4.4	2.2	0.0	
19	20	20	A1	0.0	4.4	2.2	0.0	
19	20	20	A2	0.0	4.4	2.2	0.0	
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			82.0

		COMPUTO DEI VOLUMI					Foglio n. 5	
SCAVO FOSSO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
1	2	1	B1	0.7	20.0	10.0	7.0	
0.0	20.0	2	B1	0.5	20.0	10.0	5.0	12.0
2	3	2	B1	0.5	20.0	10.0	5.0	
20.0	40.0	3	B1	0.5	20.0	10.0	5.0	10.0
3	4	3	B1	0.5	20.0	10.0	5.0	
40.0	60.0	4	B1	0.6	20.0	10.0	6.0	11.0
4	5	4	B1	0.6	20.0	10.0	6.0	
60.0	80.0	5	B1	0.5	20.0	10.0	5.0	11.0
5	6	5	B1	0.5	20.0	10.0	5.0	
80.0	100.0	6	B1	0.6	20.0	10.0	6.0	11.0
6	7	6	B1	0.6	20.0	10.0	6.0	
100.0	120.0	7	B1	0.9	20.0	10.0	9.0	15.0
7	8	7	B1	0.9	20.0	10.0	9.0	
120.0	140.0	8	B1	0.3	20.0	10.0	3.0	12.0
8	9	8	B1	0.3	20.0	10.0	3.0	
140.0	160.0	9	B1	0.6	20.0	10.0	6.0	9.0
9	10	9	B1	0.6	20.0	10.0	6.0	
160.0	180.0	10	B1	0.7	20.0	10.0	7.0	13.0
10	11	10	B1	0.7	20.0	10.0	7.0	
180.0	200.0	11	B1	0.9	20.0	10.0	9.0	16.0
11	12	11	B1	0.9	20.0	10.0	9.0	
200.0	220.0	12	B1	0.7	20.0	10.0	7.0	16.0
12	13	12	B1	0.7	20.0	10.0	7.0	
220.0	240.0	13	B1	0.1	20.0	10.0	1.0	8.0
13	14	13	B1	0.1	20.0	10.0	1.0	
240.0	260.0	14	B1	0.5	20.0	10.0	5.0	6.0
14	15	14	B1	0.5	20.0	10.0	5.0	
260.0	280.0	15	B1	0.6	20.0	10.0	6.0	11.0
15	16	15	B1	0.6	20.0	10.0	6.0	
280.0	300.0	16	B1	0.5	20.0	10.0	5.0	11.0
16	17	16	B1	0.5	20.0	10.0	5.0	
300.0	320.0	17	B1	0.0	20.0	10.0	0.0	5.0
17	18	17	B1	0.0	20.0	10.0	0.0	
17	18	18	B1	0.7	20.0	10.0	7.0	7.0
18	19	18	B1	0.7	20.0	10.0	7.0	
340.0	360.0	19	B1	0.4	20.0	10.0	4.0	11.0
19	20	19	B1	0.4	4.4	2.2	0.9	
360.0	364.4	20	B1	0.4	4.4	2.2	0.9	1.8
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO		196.8	