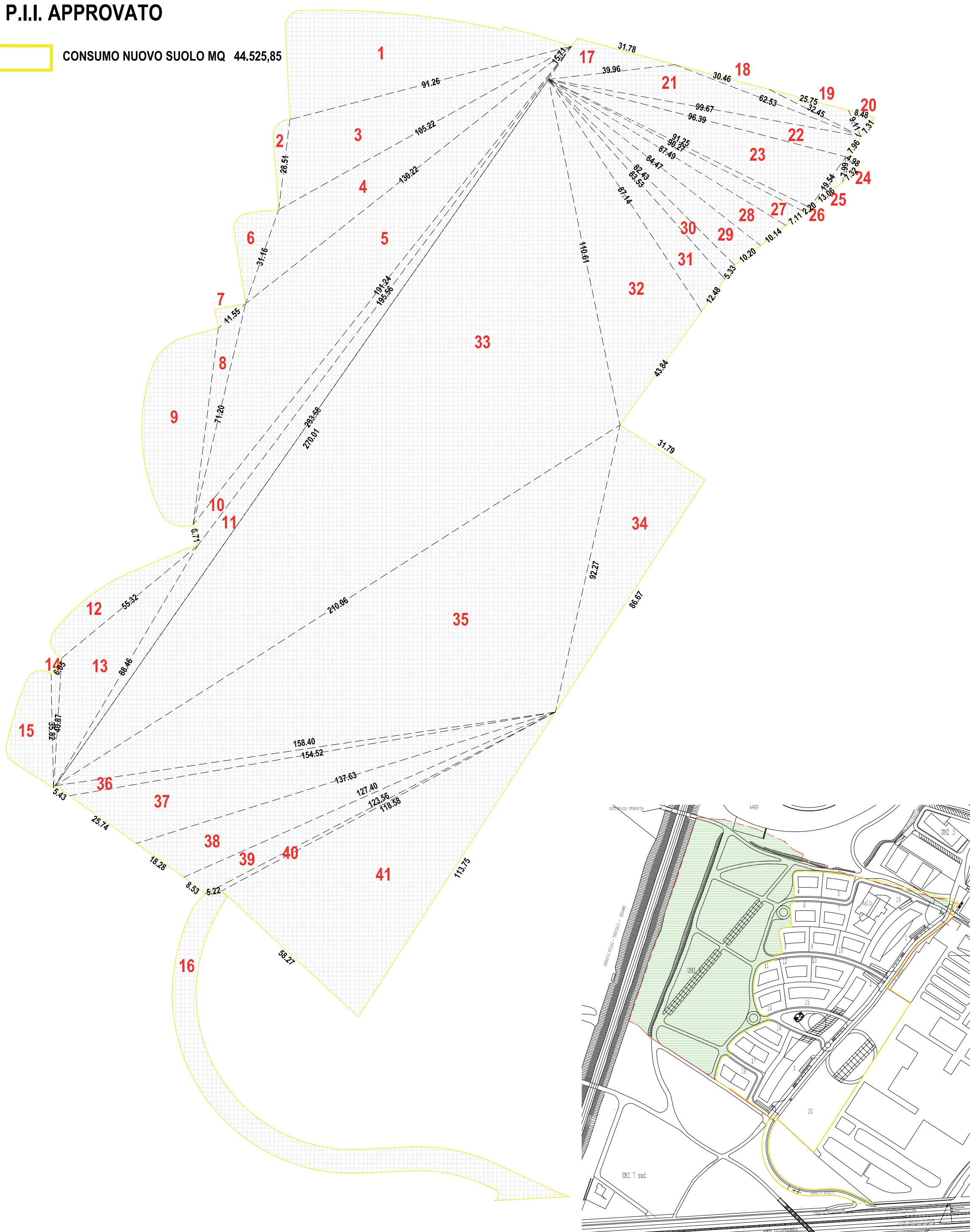


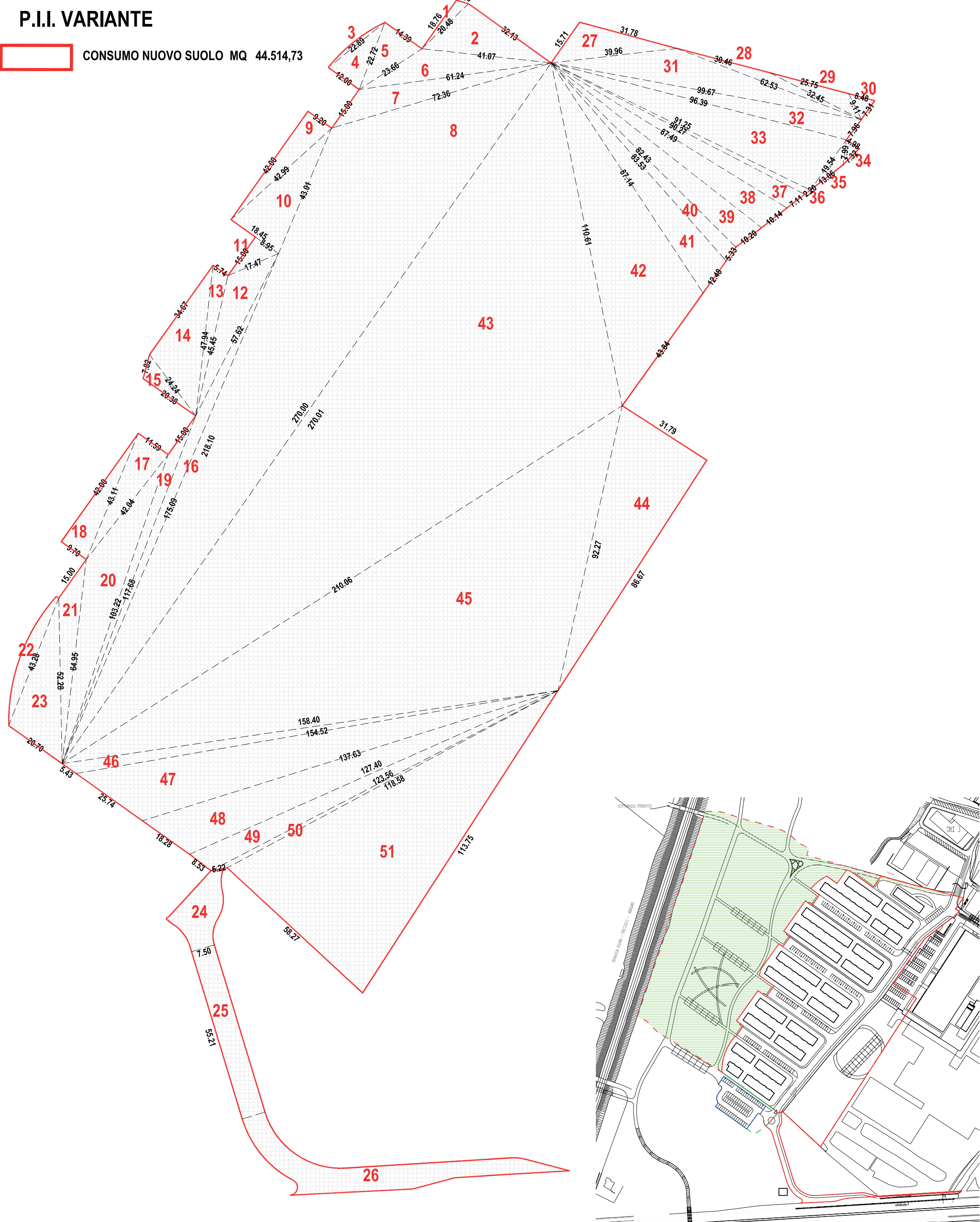
P.I.I. APPROVATO

CONSUMO NUOVO SUOLO MQ 44.525,85



P.I.I. VARIANTE

CONSUMO NUOVO SUOLO MQ 44.514,73



Perimetro nuova area a parcheggio con fondo drenante a servizio del parco

**DIMOSTRAZIONE NUOVO CONSUMO DI SUOLO
RAFFRONTO TRA P.I.I. APPROVATO E VARIANTE
SCALA 1:1000**

DIMOSTRAZIONE SUPERFICIE CONSUMO SUOLO P.I.I APPROVATO						
Porzione n°	Figura	Formula analitica	Formula matematica			Superficie (mq)
		Superficie calcolata con programma AutoCAD				
2		Superficie calcolata con programma AutoCAD				
		1.746,94				
3	triangolo	Erone	$\text{lati} = \begin{matrix} 28,51 & 91,26 & 105,22 \\ \sqrt{112,50} & \times & 83,99 \end{matrix}$			$2p = \begin{matrix} 224,99 \\ 21,24 & \times & 7,28 \end{matrix}$
		1.208,12				
4	triangolo	Erone	$\text{lati} = \begin{matrix} 105,22 & 130,22 & 31,16 \\ \sqrt{133,30} & \times & 28,08 \end{matrix}$			$2p = \begin{matrix} 266,60 \\ 3,08 & \times & 102,14 \end{matrix}$
		1.085,14				
5	triangolo	Erone	$\text{lati} = \begin{matrix} 130,22 & 71,20 & 191,24 \\ \sqrt{196,33} & \times & 66,11 \end{matrix}$			$2p = \begin{matrix} 382,66 \\ 125,13 & \times & 5,09 \end{matrix}$
		2.875,19				
6		Superficie calcolata con programma AutoCAD				
		204,17				
7		Superficie calcolata con programma AutoCAD				
		30,31				
8	triangolo	Erone	$\text{lati} = \begin{matrix} 11,55 & 62,03 & 71,20 \\ \sqrt{72,39} & \times & 60,84 \end{matrix}$			$2p = \begin{matrix} 144,78 \\ 10,36 & \times & 1,19 \end{matrix}$
		233,02				
9		Superficie calcolata con programma AutoCAD				
		1.025,00				
10	triangolo	Erone	$\text{lati} = \begin{matrix} 6,71 & 191,24 & 195,56 \\ \sqrt{196,76} & \times & 190,05 \end{matrix}$			$2p = \begin{matrix} 393,51 \\ 5,51 & \times & 1,19 \end{matrix}$
		496,42				
11	triangolo	Erone	$\text{lati} = \begin{matrix} 283,68 & 195,56 & 88,46 \\ \sqrt{283,65} & \times & 0,17 \end{matrix}$			$2p = \begin{matrix} 567,71 \\ 88,29 & \times & 195,39 \end{matrix}$
		921,19				
12		Superficie calcolata con programma AutoCAD				
		372,21				
13	triangolo	Erone	$\text{lati} = \begin{matrix} 55,32 & 88,46 & 40,87 \\ \sqrt{92,33} & \times & 37,01 \end{matrix}$			$2p = \begin{matrix} 184,65 \\ 3,87 & \times & 51,46 \end{matrix}$
		824,29				
14	triangolo	Erone	$\text{lati} = \begin{matrix} 6,05 & 40,87 & 35,82 \\ \sqrt{41,37} & \times & 35,32 \end{matrix}$			$2p = \begin{matrix} 82,74 \\ 0,50 & \times & 5,55 \end{matrix}$
		63,68				
15		Superficie calcolata con programma AutoCAD				
		378,57				
16		Superficie calcolata con programma AutoCAD				
		1.341,60				
17	triangolo	Erone	$\text{lati} = \begin{matrix} 15,71 & 31,78 & 39,96 \\ \sqrt{43,73} & \times & 25,02 \end{matrix}$			$2p = \begin{matrix} 87,45 \\ 11,95 & \times & 7,37 \end{matrix}$
		234,71				
18	triangolo	Erone	$\text{lati} = \begin{matrix} 30,46 & 50,45 & 62,53 \\ \sqrt{62,72} & \times & 32,26 \end{matrix}$			$2p = \begin{matrix} 125,44 \\ 30,27 & \times & 0,19 \end{matrix}$
		107,87				
19	triangolo	Erone	$\text{lati} = \begin{matrix} 25,75 & 32,45 & 9,11 \\ \sqrt{33,66} & \times & 7,91 \end{matrix}$			$2p = \begin{matrix} 67,31 \\ 1,21 & \times & 24,25 \end{matrix}$
		86,71				
20	triangolo	Erone	$\text{lati} = \begin{matrix} 8,48 & 9,11 & 7,31 \\ \sqrt{12,45} & \times & 3,97 \end{matrix}$			$2p = \begin{matrix} 24,90 \\ 3,34 & \times & 5,14 \end{matrix}$
		29,13				
21	triangolo	Erone	$\text{lati} = \begin{matrix} 39,96 & 62,53 & 99,67 \\ \sqrt{101,08} & \times & 61,12 \end{matrix}$			$2p = \begin{matrix} 202,16 \\ 38,55 & \times & 1,41 \end{matrix}$
		579,49				
22	triangolo	Erone	$\text{lati} = \begin{matrix} 99,67 & 7,96 & 96,39 \\ \sqrt{102,01} & \times & 2,34 \end{matrix}$			$2p = \begin{matrix} 204,02 \\ 94,05 & \times & 2,62 \end{matrix}$
		355,20				
23	triangolo	Erone	$\text{lati} = \begin{matrix} 96,39 & 91,25 & 19,54 \\ \sqrt{103,59} & \times & 7,20 \end{matrix}$			$2p = \begin{matrix} 207,18 \\ 12,34 & \times & 80,05 \end{matrix}$
		879,53				
24	triangolo	Erone	$\text{lati} = \begin{matrix} 4,98 & 7,99 & 7,32 \\ \sqrt{10,15} & \times & 5,17 \end{matrix}$			$2p = \begin{matrix} 20,29 \\ 2,16 & \times & 2,83 \end{matrix}$
		17,86				
25	triangolo	Erone	$\text{lati} = \begin{matrix} 19,54 & 7,99 & 13,06 \\ \sqrt{20,30} & \times & 0,76 \end{matrix}$			$2p = \begin{matrix} 40,59 \\ 12,31 & \times & 7,24 \end{matrix}$
		36,93				
26	triangolo	Erone	$\text{lati} = \begin{matrix} 2,20 & 91,25 & 90,27 \\ \sqrt{91,86} & \times & 89,66 \end{matrix}$			$2p = \begin{matrix} 183,72 \\ 0,61 & \times & 15,59 \end{matrix}$
		89,38				
27	triangolo	Erone	$\text{lati} = \begin{matrix} 7,11 & 90,27 & 87,49 \\ \sqrt{92,44} & \times & 85,33 \end{matrix}$			$2p = \begin{matrix} 184,87 \\ 2,17 & \times & 49,5 \end{matrix}$
		290,58				
28	triangolo	Erone	$\text{lati} = \begin{matrix} 10,14 & 87,49 & 84,47 \\ \sqrt{91,05} & \times & 80,91 \end{matrix}$			$2p = \begin{matrix} 182,10 \\ 3,56 & \times & 6,58 \end{matrix}$
		4				

DIMOSTRAZIONE SUPERFICIE CONSUMO SUOLO P.I.I. VARIANTE						
Porzione n°	Figura	Formula analitica	Formula matematica			Superficie (mq)
1	triangolo	Erone	$lat = \sqrt{20,48 \times 21,62 \times 1,14}$	$3,99$	$18,76$	$2p = 43,23$
			$\sqrt{48,84 \times 26,36 \times 14,71}$	$5,77$		$35,14$
2	triangolo	Erone	$lat = \sqrt{20,48 \times 32,13 \times 41,07}$	$2p = 93,68$		
			$\sqrt{48,84 \times 26,36 \times 14,71}$	$5,77$		$323,72$
3	Superficie calcolata con programma AutoCAD					19,78
4	triangolo	Erone	$lat = \sqrt{22,89 \times 22,72 \times 12,90}$	$2p = 57,81$		
			$\sqrt{28,81 \times 5,92 \times 6,09}$	$6,09$	$16,81$	$132,00$
5	triangolo	Erone	$lat = \sqrt{14,39 \times 22,72 \times 23,96}$	$2p = 60,77$		
			$\sqrt{30,39 \times 16,00 \times 7,67}$	$6,73$	$6,73$	$158,28$
6	triangolo	Erone	$lat = \sqrt{23,66 \times 41,07 \times 61,24}$	$2p = 125,97$		
			$\sqrt{62,99 \times 39,33 \times 21,92}$	$17,51$	$17,51$	$307,77$
7	triangolo	Erone	$lat = \sqrt{15,00 \times 61,24 \times 72,36}$	$2p = 148,60$		
			$\sqrt{74,30 \times 59,30 \times 13,06}$	$19,44$	$19,44$	$334,11$
8	triangolo	Erone	$lat = \sqrt{72,36 \times 218,10 \times 270,00}$	$2p = 560,44$		
			$\sqrt{280,23 \times 207,87 \times 62,13}$	$10,23$	$10,23$	$6.084,74$
9	triangolo	Erone	$lat = \sqrt{9,20 \times 42,00 \times 42,99}$	$2p = 94,19$		
			$\sqrt{47,10 \times 37,90 \times 5,10}$	$5,10$	$4,11$	$193,20$
10	triangolo	Erone	$lat = \sqrt{42,99 \times 43,01 \times 18,45}$	$2p = 104,45$		
			$\sqrt{52,23 \times 9,24 \times 9,22}$	$9,22$	$33,78$	$387,44$
11	triangolo	Erone	$lat = \sqrt{15,00 \times 8,95 \times 17,47}$	$2p = 41,42$		
			$\sqrt{20,71 \times 5,71 \times 11,76}$	$3,24$	$3,24$	$67,12$
12	triangolo	Erone	$lat = \sqrt{17,47 \times 45,45 \times 57,62}$	$2p = 120,54$		
			$\sqrt{60,27 \times 42,80 \times 14,82}$	$14,82$	$26,65$	$318,29$
13	triangolo	Erone	$lat = \sqrt{5,74 \times 47,94 \times 45,45}$	$2p = 99,13$		
			$\sqrt{49,57 \times 43,83 \times 1,63}$	$1,63$	$4,11$	$120,52$
14	triangolo	Erone	$lat = \sqrt{34,67 \times 47,94 \times 24,24}$	$2p = 106,85$		
			$\sqrt{53,43 \times 18,76 \times 5,49}$	$5,49$	$26,19$	$400,50$
15	triangolo	Erone	$lat = \sqrt{7,82 \times 24,24 \times 20,38}$	$2p = 52,44$		
			$\sqrt{26,22 \times 18,40 \times 1,98}$	$1,98$	$5,84$	$74,69$
16	triangolo	Erone	$lat = \sqrt{175,09 \times 57,62 \times 117,58}$	$2p = 350,39$		
			$\sqrt{175,20 \times 0,10 \times 117,58}$	$0,10$	$57,52$	$352,70$
17	triangolo	Erone	$lat = \sqrt{11,59 \times 43,11 \times 42,04}$	$2p = 96,74$		
			$\sqrt{48,37 \times 36,78 \times 5,26}$	$5,26$	$6,33$	$243,38$
18	triangolo	Erone	$lat = \sqrt{42,00 \times 43,11 \times 9,70}$	$2p = 94,81$		
			$\sqrt{47,41 \times 5,41 \times 4,30}$	$4,30$	$37,71$	$203,70$
19	triangolo	Erone	$lat = \sqrt{15,00 \times 103,32 \times 117,68}$	$2p = 235,90$		
			$\sqrt{117,95 \times 102,95 \times 0,10}$	$0,10$	$14,73$	$219,76$
20	triangolo	Erone	$lat = \sqrt{42,04 \times 64,95 \times 103,22}$	$2p = 210,21$		
			$\sqrt{105,11 \times 63,07 \times 0,16}$	$0,16$	$1,89$	$708,32$
21	triangolo	Erone	$lat = \sqrt{15,00 \times 52,28 \times 64,95}$	$2p = 132,23$		
			$\sqrt{66,12 \times 51,12 \times 0,18}$	$0,18$	$1,17$	$233,39$
22	Superficie calcolata con programma AutoCAD					140,18
23	triangolo		$lat = \sqrt{43,28 \times 52,78 \times 20,70}$	$2p = 116,76$		
			$\sqrt{58,38 \times 15,10 \times 0,00}$	$0,00$	$5,60$	$431,29$
24	Superficie calcolata con programma AutoCAD					256,04
25	Rettangolo	b x h	b= 55,21	H= 7,50		414,08
26	Superficie calcolata con programma AutoCAD					708,43
27	triangolo	Erone	$lat = \sqrt{15,71 \times 31,78 \times 39,96}$	$2p = 87,45$		
			$\sqrt{43,73 \times 28,02 \times 11,95}$	$11,95$	$3,77$	$234,71$
28	triangolo	Erone	$lat = \sqrt{30,46 \times 32,45 \times 62,53}$	$2p = 125,44$		
			$\sqrt{62,72 \times 32,26 \times 30,27}$	$30,27$	$0,19$	$107,87$
29	triangolo	Erone	$lat = \sqrt{25,75 \times 32,45 \times 9,11}$	$2p = 67,31$		
			$\sqrt{33,66 \times 7,91 \times 1,21}$	$1,21$	$24,55$	$88,71$
30	triangolo	Erone	$lat = \sqrt{8,48 \times 9,11 \times 7,31}$	$2p = 24,90$		
			$\sqrt{12,45 \times 3,97 \times 3,34}$	$3,34$	$5,14$	$29,13$
31	triangolo	Erone	$lat = \sqrt{39,96 \times 62,53 \times 99,67}$	$2p = 202,16$		
			$\sqrt{101,08 \times 61,12 \times 38,55}$	$38,55$	$1,41$	$579,49$
32	triangolo	Erone	$lat = \sqrt{99,67 \times 7,96 \times 96,39}$	$2p = 204,02$		
			$\sqrt{102,01 \times 2,34 \times 94,05}$	$94,05$	$5,62$	$355,20$
33	triangolo	Erone	$lat = \sqrt{96,39 \times 91,25 \times 19,54}$	$2p = 207,18$		
			$\sqrt{103,59 \times 7,20 \times 12,34}$	$12,34$	$84,05$	$879,53$
34	triangolo	Erone	$lat = \sqrt{4,98 \times 7,99 \times 7,32}$	$2p = 20,29$		
			$\sqrt{10,15 \times 5,17 \times 2,16}$	$2,16$	$2,83$	$17,86$
35	triangolo	Erone	$lat = \sqrt{19,54 \times 7,99 \times 13,06}$	$2p = 40,59$		
			$\sqrt{20,30 \times 0,76 \times 12,31}$	$12,31$	$7,24$	$36,93$
36	triangolo	Erone	$lat = \sqrt{2,30 \times 91,25 \times 90,27}$	$2p = 183,72$		
			$\sqrt{91,86 \times 89,66 \times 0,61}$	$0,61$	$1,59$	$89,38$
37	triangolo	Erone	$lat = \sqrt{7,11 \times 90,27 \times 87,49}$	$2p = 184,07$		
			$\sqrt{92,44 \times 85,33 \times 2,17}$	$2,17$	$4,56$	$290,58$
38	triangolo	Erone	$lat = \sqrt{10,15 \times 87,49 \times 84,47}$	$2p = 190,10$		
			$\sqrt{91,05 \times 80,91 \times 3,56}$	$3,56$	$6,58$	$415,41$
39	triangolo	Erone	$lat = \sqrt{16,20 \times 84,47 \times 82,43}$	$2p = 177,30$		
			$\sqrt{86,55 \times 78,35 \times 4,08}$	$4,08$	$6,12$	$416,22$
40	triangolo	Erone	$lat = \sqrt{82,43 \times 83,53 \times 5,33}$	$2p = 171,29$		
			$\sqrt{85,65 \times 3,22 \times 2,12}$	$2,12$	$80,32$	$216,27$
41	triangolo	Erone	$lat = \sqrt{83,53 \times 87,14 \times 12,48}$	$2p = 183,15$		
			$\sqrt{91,58 \times 8,05 \times 4,44}$	$4,44$	$79,10$	$508,36$
42	triangolo	Erone	$lat = \sqrt{87,14 \times 110,61 \times 43,84}$	$2p = 241,59$		
			$\sqrt{120,80 \times 33,66 \times 10,19}$	$10,19$	$76,96$	$1.785,04$
43	triangolo	Erone	$lat = \sqrt{110,61 \times 270,11 \times 210,06}$	$2p = 590,78$		
			$\sqrt{235,39 \times 184,78 \times 25,28}$	$25,28$	$65,53$	$10.850,88$
44	triangolo	Erone	$lat = \sqrt{92,27 \times 31,79 \times 98,87}$	$2p = 210,73$		
			$\sqrt{105,37 \times 13,10 \times 73,58}$	$73,58$	$18,70$	$1.377,62$
45	triangolo	Erone	$lat = \sqrt{210,06 \times 92,27 \times 158,40}$	$2p = 460,73$		
			$\sqrt{230,37 \times 20,31 \times 138,10}$	$138,10$	$71,97$	$6.818,04$
46	triangolo	Erone	$lat = \sqrt{5,43 \times 158,40 \times 154,52}$	$2p = 318,35$		
			$\sqrt{159,18 \times 153,75 \times 0,78}$	$0,78$	$4,66$	$297,13$
47	triangolo	Erone	$lat = \sqrt{25,74 \times 154,50 \times 137,63}$	$2p = 317,89$		
			$\sqrt{158,95 \times 133,21 \times 4,42}$	$4,42$	$21,32$	$1.413,13$
48	triangolo	Erone	$lat = \sqrt{18,28 \times 137,63 \times 127,40}$	$2p = 283,31$		
			$\sqrt{141,66 \times 123,38 \times 4,03}$	$4,03$	$14,26$	$1.001,37$
49	triangolo	Erone	$lat = \sqrt{8,53 \times 127,40 \times 123,56}$	$2p = 229,49$		
			$\sqrt{129,75 \times 121,22 \times 2,35}$	$2,35$	$6,19$	$477,60$
50	triangolo	Erone	$lat = \sqrt{5,22 \times 123,56 \times 118,58}$	$2p = 247,36$		
			$\sqrt{123,68 \times 118,46 \times 0,12}$	$0,12$	$5,10$	$94,69$
51	triangolo	Erone	$lat = \sqrt{118,58 \times 58,27 \times 113,75}$	$2p = 209,60$		
			$\sqrt{145,30 \times 26,72 \times 87,03}$	$87,03$	$31,55$	$3.265,02$
TOTALE						44.514,73

PROGETTO: PROGRAMMA INTEGRATO DI INTERVENTO PARCO OVEST	OGGETTO: VARIANTE 01 AL P.I.L. APPROVATO	COMUNE: 28	CONFERMA	130	2007
	ELABORATO:	COMUNE:	REDAZIONE	PD	02
VERIFICA CONSUMO DI SUOLO RAFFRONTO	OGGETTO:	COMUNE:	REDAZIONE	PD	02
	ELABORATO:	COMUNE:	REDAZIONE	PD	02