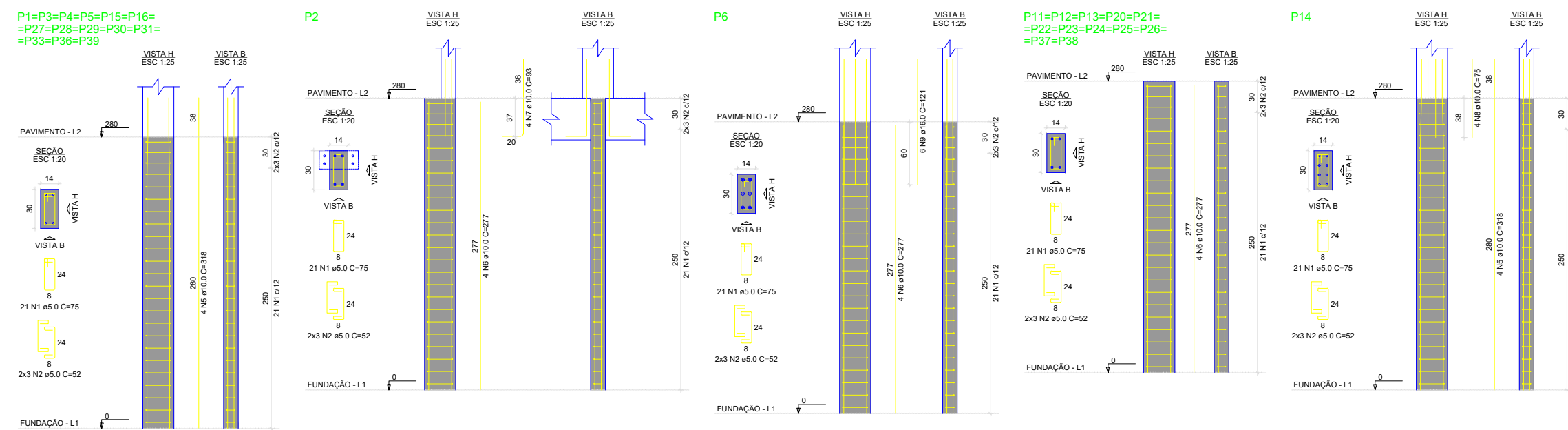
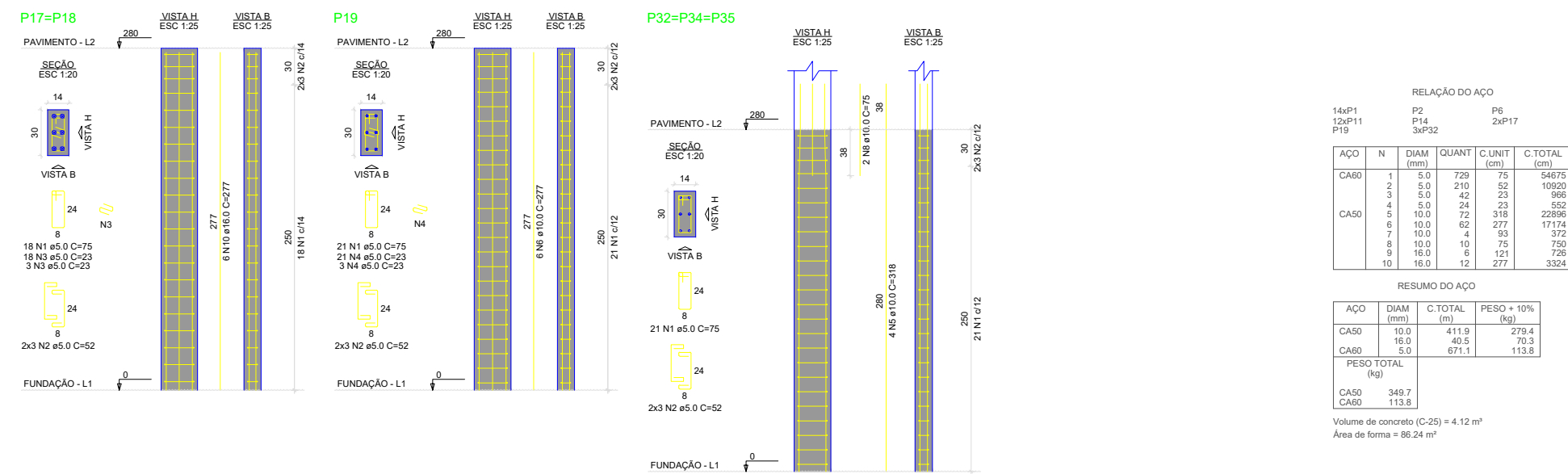


PAVIMENTO



AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	77.7	52.7
	16.0	13.4	23.3
CA60	5.0	87.2	14.8
PESO TOTAL (kg)			
CA50	76		
CA60	14.8		

Volume de concreto (C-25) = 0.00 m³
Área de forma = 0.00 m²

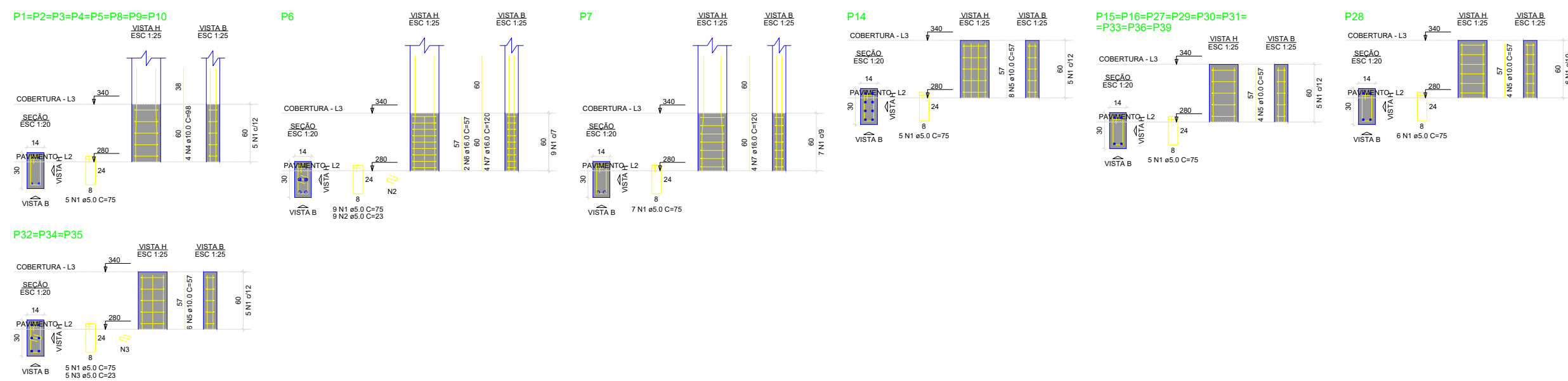


RELAÇÃO DO AÇO					
14xP1		P2		P6	
12xP11		P14		2xP17	
P19		3xP32			
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA80	1	5.0	729	75	54675
	2	5.0	210	52	10920
	3	5.0	42	23	966
	4	5.0	24	23	552
CA50	5	10.0	72	318	22896
	6	10.0	62	277	17174
	7	10.0	4	73	372
	8	10.0	10	75	750
	9	16.0	6	121	726
	10	16.0	12	227	3324

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	411.9	279.4
	16.0	40.5	70.3
CA60	5.0	671.1	113.8

Volume de concreto (C-25) = 4.12 m³
Área de forma = 86.24 m²

COBERTURA

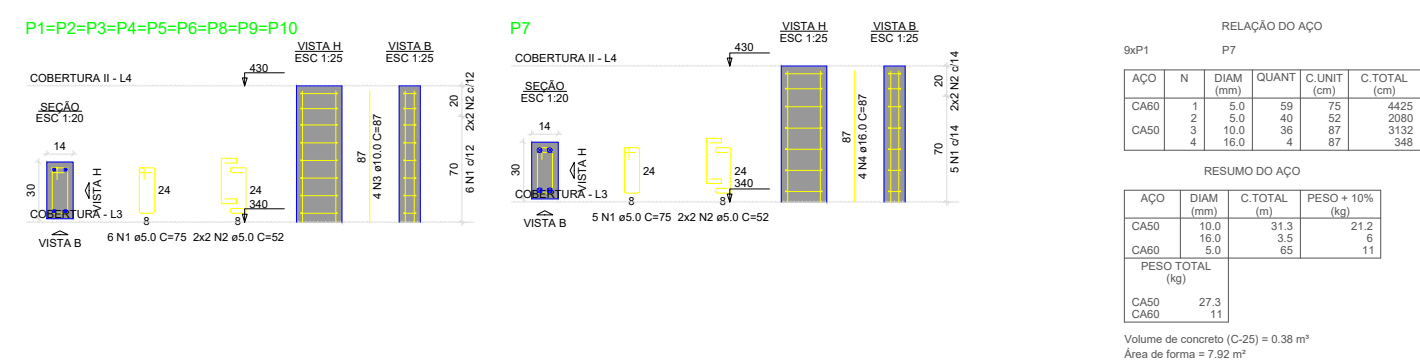


RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	127	75	9525
	2	5,0	9	23	207
	3	5,0	15	23	345
CA50	4	10,0	32	98	3136
	5	10,0	66	57	3762
	6	16,0	2	57	114
	7	16,0	8	120	960

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	69	46.8
	16.0	10.7	18.6
CA60	5.0	100.8	17.1
PESO TOTAL (kg)			
CA50	65.4		
CA60	17.1		

Volume de concreto (C-25) = 0.60 m³
Área de forma = 12.67 m²



RELAÇÃO DO AÇO					
9xP1		P7			
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	59	75	4425
	2	5,0	40	52	2080
CA50	3	10,0	36	87	3132
	4	16,0	4	87	348

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	31.3	21.2
	16.0	3.5	6
CA60	5.0	65	11

Volume de concreto (C-25) = 0.38 m³
Área de forma = 7.92 m²

[illegible]