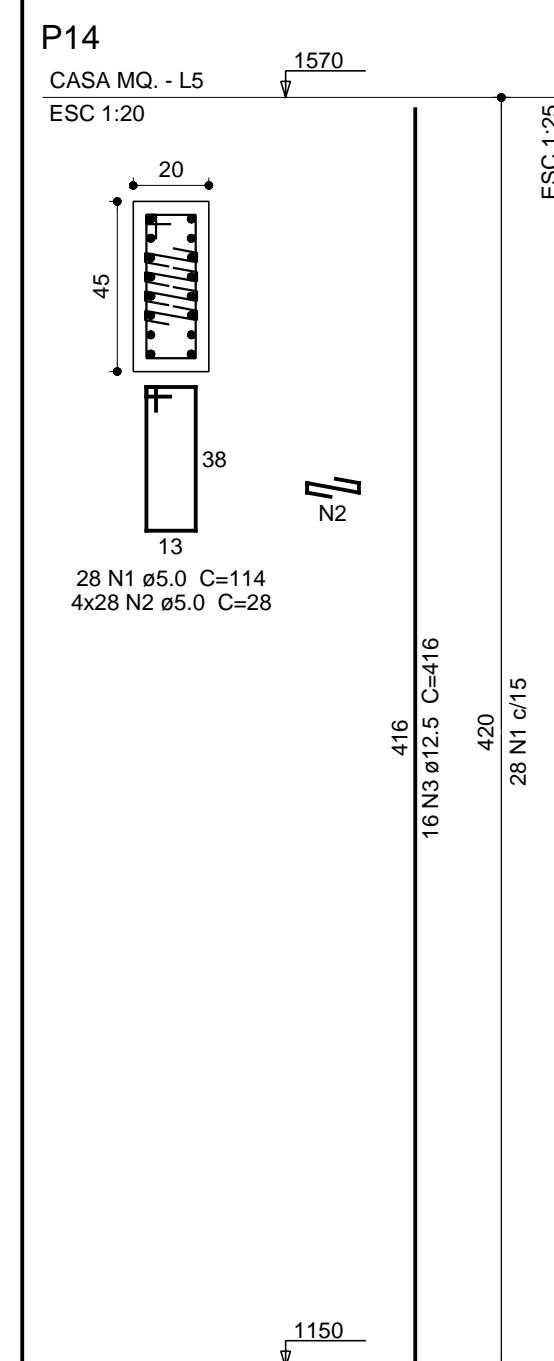
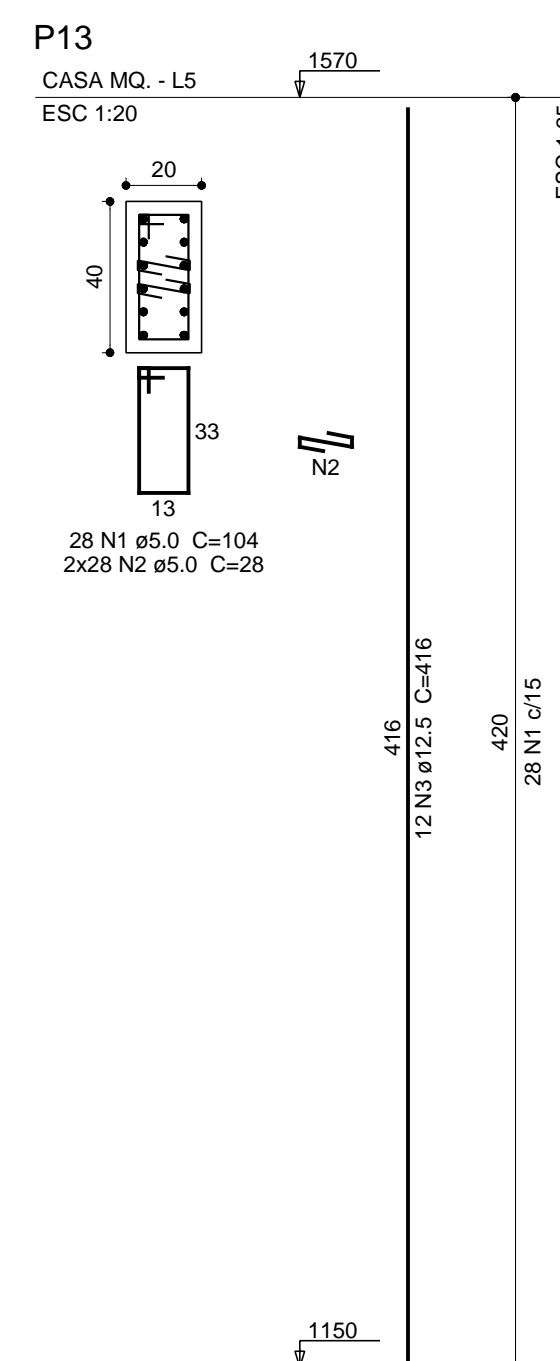
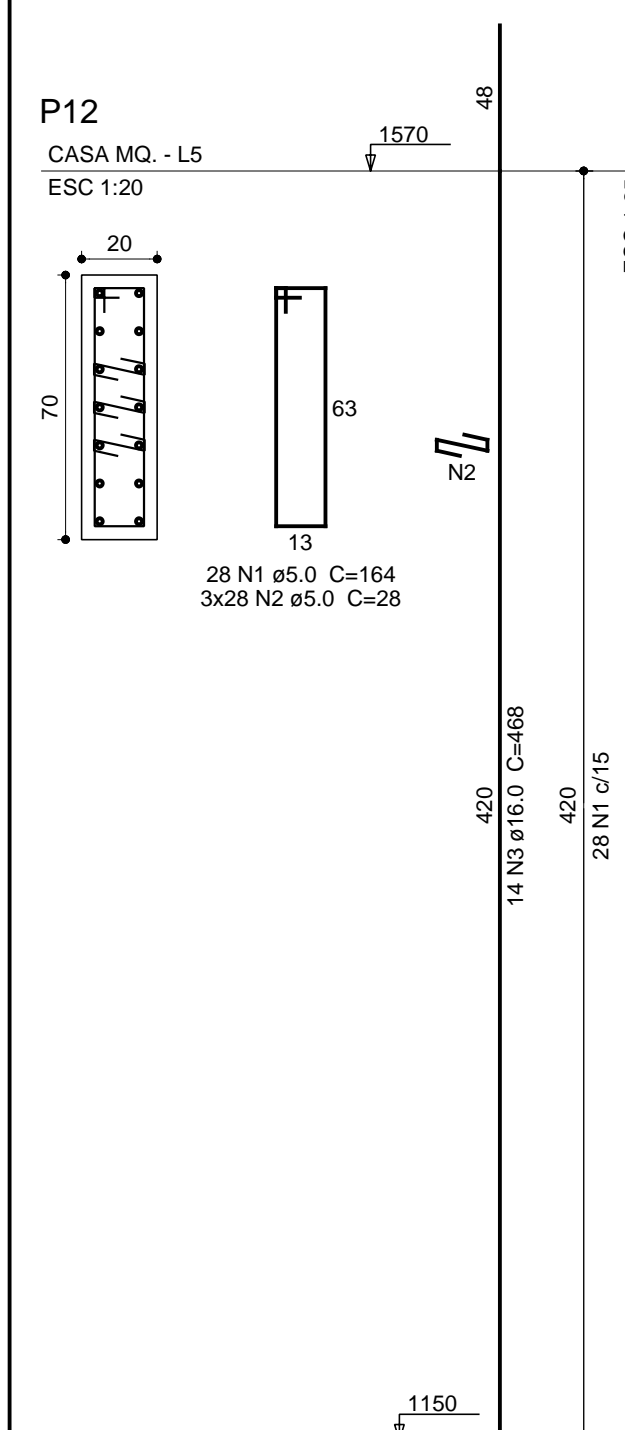
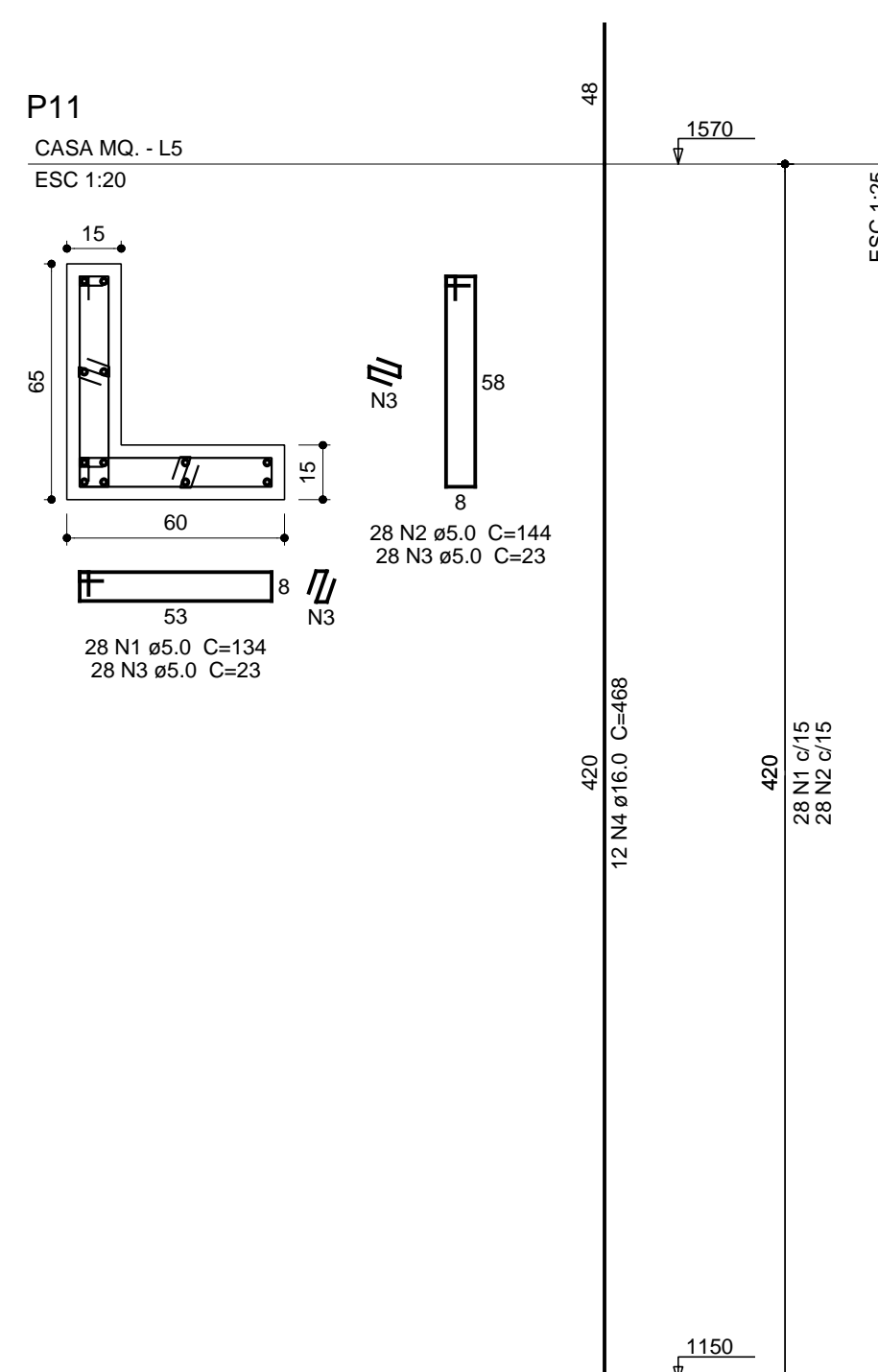
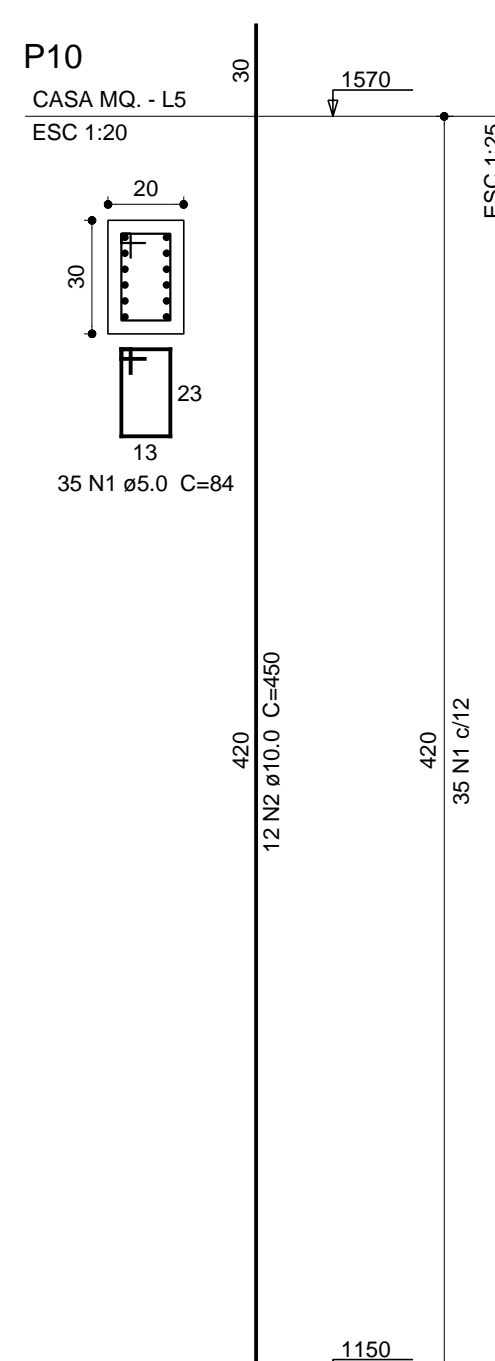
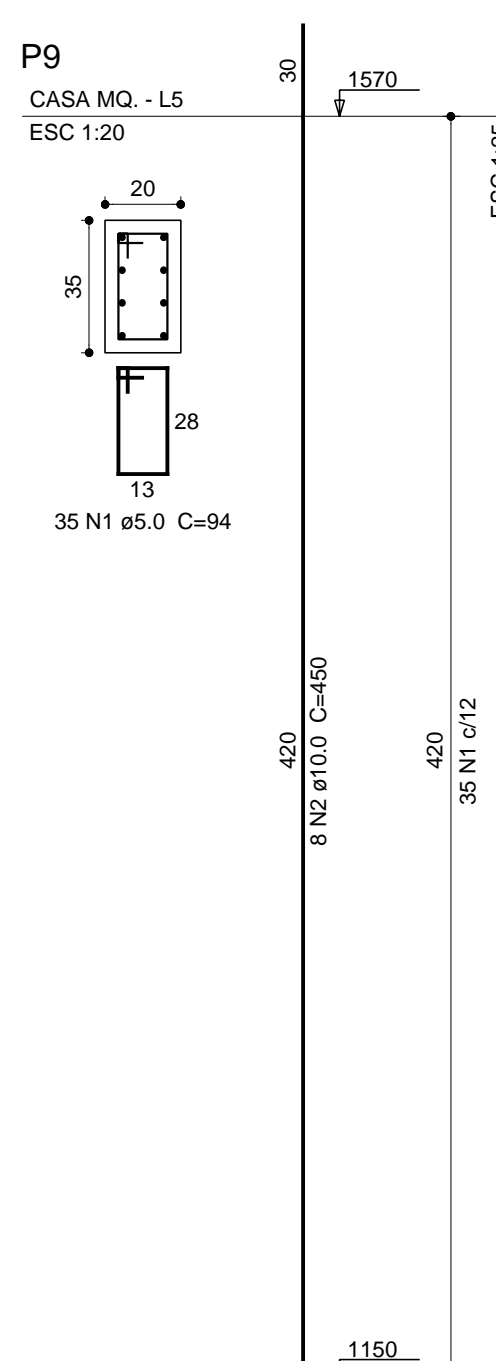
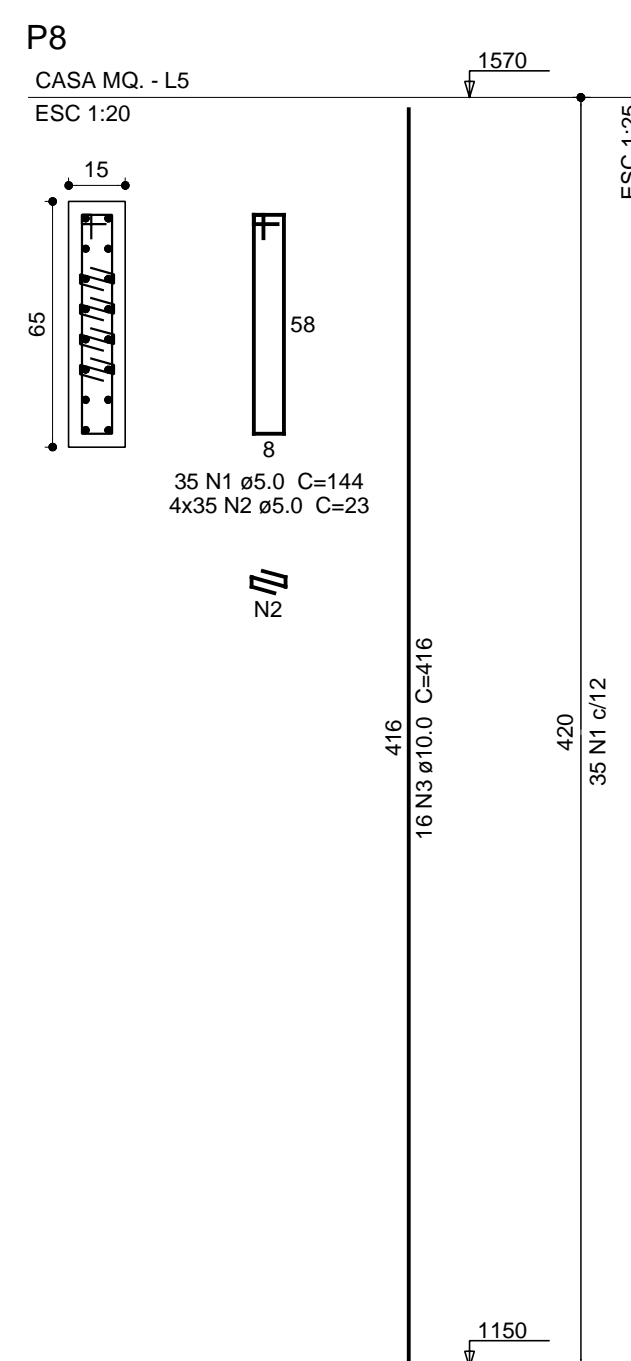


ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P1	CA60	1	5,0	28	134	3752
	CA60	2	5,0	56	28	1568
	CA50	3	12,5	12	416	4992
P2	CA60	1	5,0	35	134	4690
	CA60	2	5,0	140	28	3920
	CA50	3	10,0	16	416	6656
P3	CA60	1	5,0	28	104	2912
	CA60	2	5,0	56	28	1568
	CA50	3	16,0	10	416	4160
P4	CA60	1	5,0	28	124	3472
	CA60	2	5,0	56	28	1568
	CA50	3	12,5	12	458	5486
P5	CA60	1	5,0	28	104	2912
	CA60	2	5,0	28	114	3192
	CA60	3	5,0	28	28	784
P6	CA60	4	16,0	14	468	6552
	CA60	1	5,0	28	104	2912
	CA60	2	5,0	56	28	1568
P7	CA60	3	16,0	10	468	4680
	CA60	1	5,0	28	104	2912
	CA50	2	5,0	28	28	784
P8	CA60	3	16,0	10	416	4160
	CA50	1	5,0	35	144	5040
	CA50	2	5,0	140	23	3200
P9	CA60	1	10,0	16	416	6656
	CA60	1	5,0	35	94	3290
	CA50	2	10,0	8	450	3600
P10	CA60	1	5,0	35	84	2940
	CA50	2	10,0	10	450	5400
	CA60	1	5,0	28	134	3752
P11	CA60	2	5,0	28	144	4032
	CA60	3	5,0	56	23	1288
	CA50	4	16,0	12	468	5516
P12	CA60	1	5,0	28	164	4692
	CA60	2	5,0	84	28	2352
	CA50	3	16,0	14	468	6552
P13	CA60	1	5,0	28	104	2912
	CA60	2	5,0	56	28	1568
	CA50	3	12,5	12	416	4992
P14	CA60	1	5,0	28	114	3192
	CA60	2	5,0	112	28	3136
	CA50	3	12,5	16	416	6656


Resumo do aço			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	223.2	137.6
	12.5	221.4	213.2
	16.0	317.2	500.6
CA60	5.0	798.3	123
PESO TOTAL (kg)			
CA50	851.5		
CA60	123		

Volume de concreto (C35) = 5.83 m³
Área de forma = 85.26 m²



00	EMISSÃO INICIAL	31/10/2016
Nº	REVISÃO	DATA

 ESTEL ENGENHARIA Rua José Quirino, 147 - São João - CEP 88305-060 - Itajaí-SC Tel: (047) 3046-2001 Fax: (047) 3046-2004 e-mail: estelengenharia.com.br - www.estelengenharia.com.br	PROJETO Nº 1280/16
	PROJETO ESTRUTURAL

	CLIENTE MUNICÍPIO DE PARANAGÁ			
	PROJETO PRÉDIO ADM. DA PREFEITURA DE PARANAGÁ			
	CONTEUDO ARMAÇÃO DOS PILARES DA CASA DE MAQUINAS			
FRANCHA "N"	RESPONSÁVEL TÉCNICO		PROPRIETÁRIO	
56/75	_____ SÉRGIO LUIZ DO AMARAL LOZOVEY CREA/SC 13708-0		_____ PREFEITURA DE PARANAGÁ UNIDADE DE GERENCIAMENTO DE PROGRAMAS	
AUTOR DO PROJETO SÉRGIO LOZOVEY	CAD ARLINE DEPINÉ	DATA 03/2016	REVISÃO 00	CONTROLE DE PROJETOS
ÁREA 1.850,00 m²	VERIFICAÇÃO RENATO REIS	ESCALA IND.	ARQUIVO 1280-EST-56-R0	PROJETO DEFINITIVO (x)
				PROJETO NÃO DEFINITIVO ()

PENAS	
RED	0.1mm BLACK
YELLOW	0.2mm BLACK
GREEN	0.3mm BLACK
CYAN	0.4mm BLACK
BLUE	0.5mm BLACK
MAGENTA	0.6mm BLACK
10	0.1mm 10
62	0.1mm 62
96	0.1mm 96
156	0.1mm 156
160	0.2mm 160
354	0.1mm 354