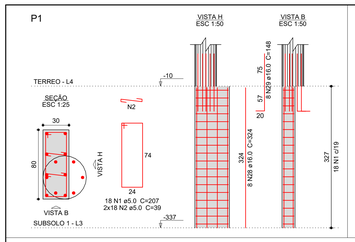

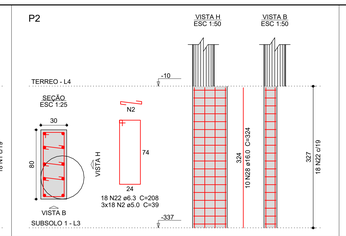

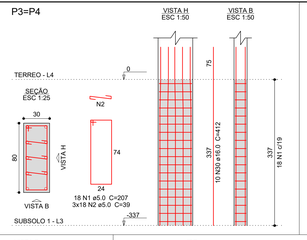

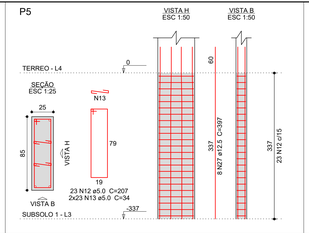

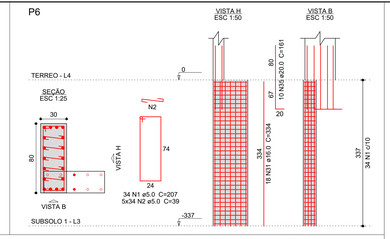

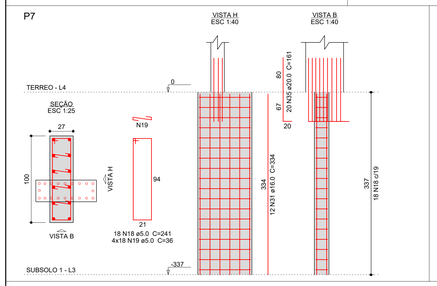

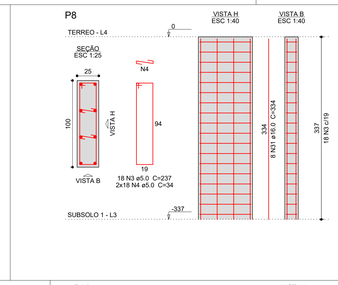

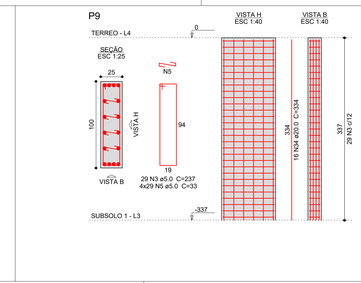

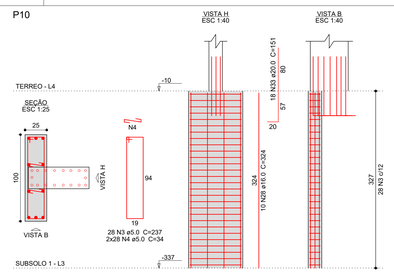

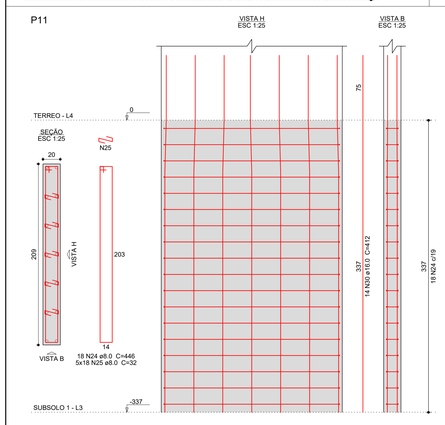

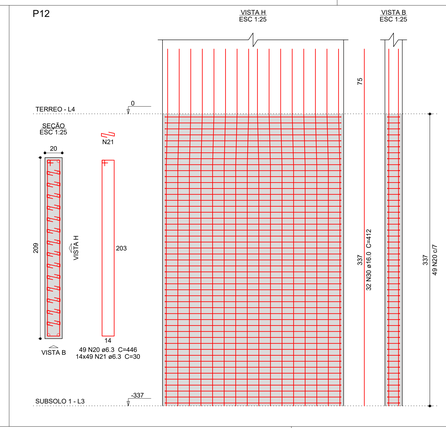

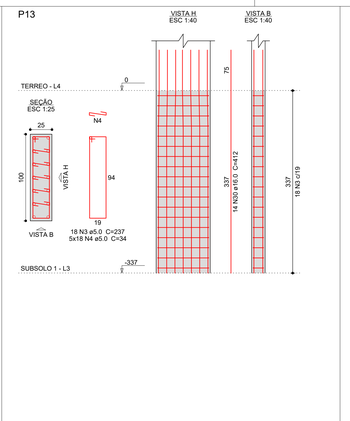

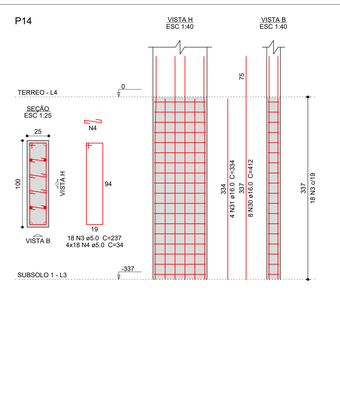

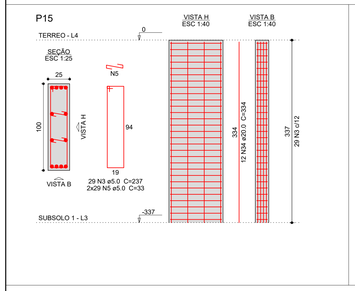

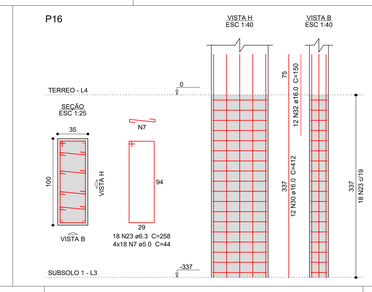

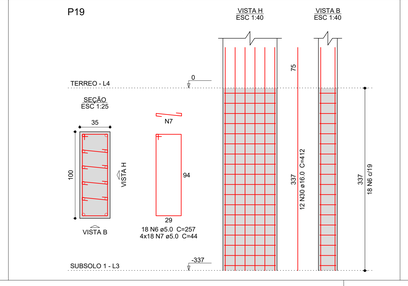

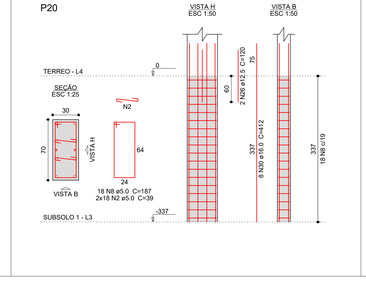

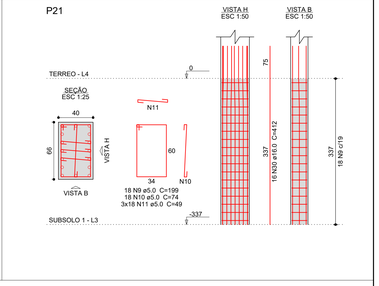

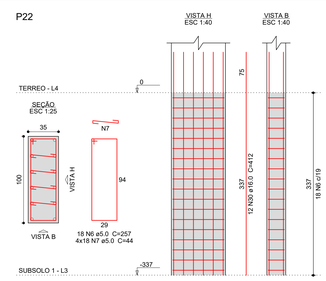

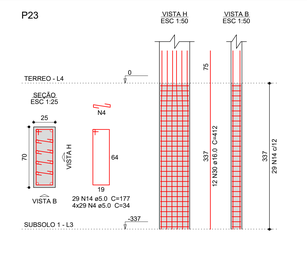

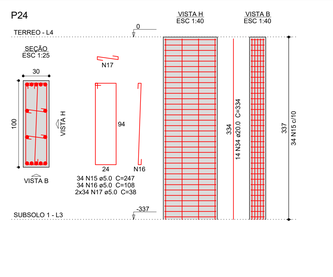

Relação do aço

P1	P2	2xP3
P5	P6	P7
P8	P9	P10
P11	P12	P13
P14	P15	P16
P19	P20	P21
P22	P23	P24

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	88	207	18216
	2	5.0	404	39	15756
	3	5.0	140	237	33180
	4	5.0	370	34	12580
	5	5.0	174	33	5742
	6	5.0	36	257	9252
	7	5.0	216	44	9504
	8	5.0	18	187	3366
	9	5.0	18	199	3582
	10	5.0	18	74	1332
	11	5.0	54	49	2646
	12	5.0	23	207	4761
	13	5.0	46	34	1564
	14	5.0	29	177	5133
	15	5.0	34	247	8398
	16	5.0	34	108	3672
	17	5.0	68	38	2584
	18	5.0	18	241	4338
	19	5.0	72	36	2592
CA50	20	6.3	49	446	21854
	21	6.3	686	30	20580
	22	6.3	18	208	3744
	23	6.3	18	258	4644
	24	8.0	18	446	8028
	25	8.0	90	32	2880
	26	12.5	2	120	240
	27	12.5	8	397	3176
	28	16.0	28	324	9072
	29	16.0	8	148	1184
	30	16.0	160	412	65920
	31	16.0	42	334	14028
	32	16.0	12	150	1800
	33	20.0	18	151	2718
	34	20.0	42	334	14028
	35	20.0	30	161	4830

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	508.3	124.4
	8.0	109.1	43
	12.5	34.2	32.9
	16.0	920.1	1452.1
	20.0	215.8	532.1
CA60	5.0	1482	228.4

PESO TOTAL (kg)	
CA50	2184.5
CA60	228.4

Volume de concreto (C-35) = 20.26 m³
Área de forma = 190.46 m²

Importante:

- Durante a execução das armaduras ficar atento as medidas.
- Efetuar um planejamento prévio antes de executar os cortes das barras, com a intenção de otimizar o plano de corte.
- Ficar atento ao raio de dobra do aço ou seja o pino da bancada.
- Utilizar arame recozido nº 18 duplo ou nº 10 simples.
- Colocar os espaçadores conforme a legenda da prancha de forma especifica.

Rev.	Descrição	Responsável	Data
00	Emissão	Tarcisio	07/08/2025

Sistema	Normas Técnicas Adotada	Sistema	Normas Técnicas Adotadas
NBR 6118	Projetos de estrutura de concreto armado	NBR 15200	Proj. estrutura de concreto situação de fogo
NBR 6120	Cálculo para cargas de estruturas	NBR 15575	Edificações habitcionais - Desempenho
NBR 6123	Forças devido ao vento	NBR 6122	Projetos e execução de fundações

Obra:
FELICITÁ CONDOMÍNIO RESIDENCIAL
Rua Joaquim Fernandes de Oliveira - Abraão - Florianópolis - SC

Tipo de Projeto:
PROJETO ESTRUTURAL

Fase do Projeto: EXECUTIVO

Descrição da Folha:
TÉRREO - DET. - ARMADURA - PILARES

Folha: 23

Escala:	Data:	Desenhista:	Arquivo do Projetista
Indicada	07/08/2025	Gillardi/Marcelo	PE202224_OTREBOR_FELICITA

Projetista:
Eng. Tarcisio Lucio Lunardeli
CREA/SC 054755-5
tarcisio@lunardeli.com.br - tel: 48 984047797
Lunardeli Engenharia

Proprietário:
Felicita Empreendimentos SPE Ltda.
CNPJ: 45.659.184/0001-34