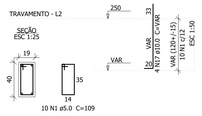
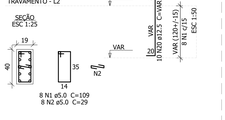
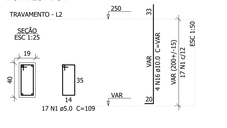
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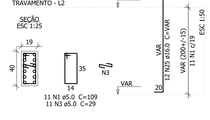
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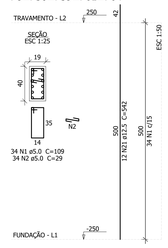
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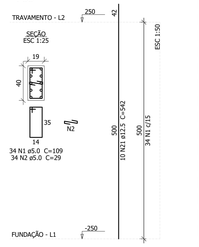
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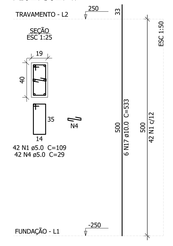
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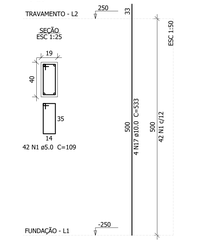
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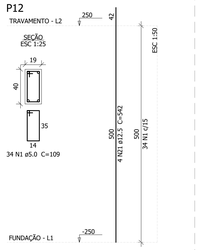
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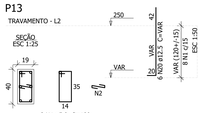
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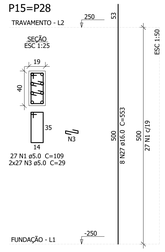
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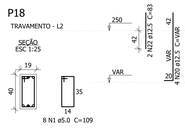
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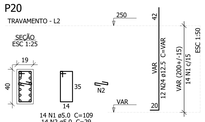
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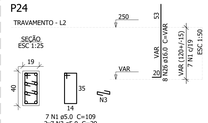
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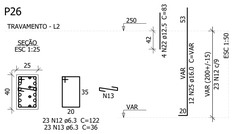
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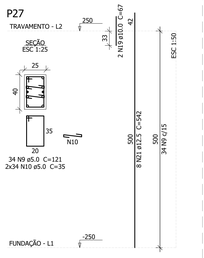
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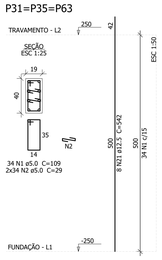
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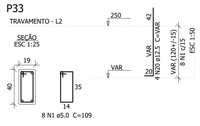
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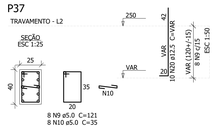
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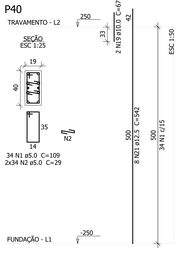
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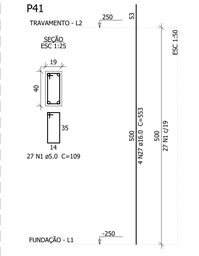
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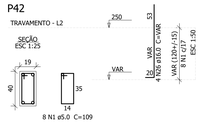
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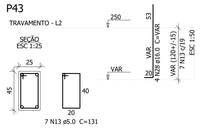
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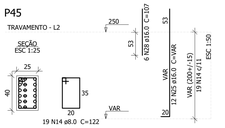
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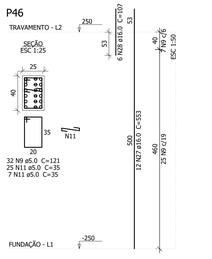
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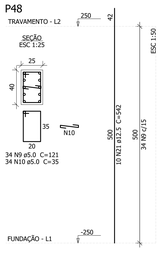
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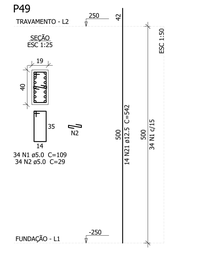
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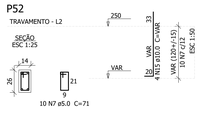
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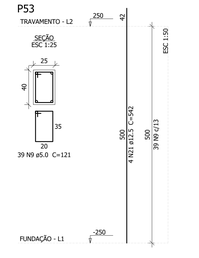
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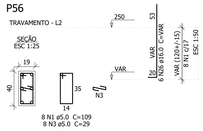
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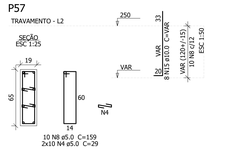
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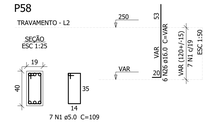
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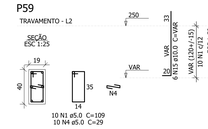
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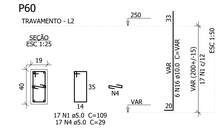
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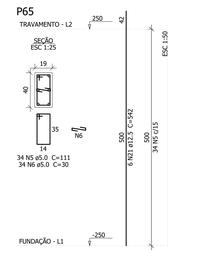
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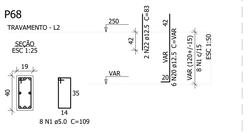
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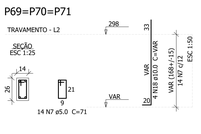
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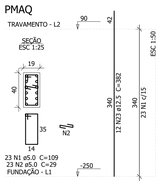
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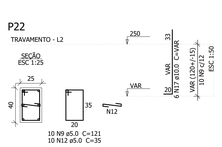
P69=P70=P71



PMAQ



P22



Relação do aço

6xP1	2xP3	3xP6
P7	5xP8	6xP9
3xP10	5xP11	P12
P13	2xP15	P18
P20	P22	2xP23
P24	P26	P27
3xP31	P33	P37
P40	P41	P42
P43	P45	P46
P48	P49	P52
P53	P56	P57
P58	P59	P60
P65	P68	3xP69
PMAQ		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1275	109	138975
	2	5.0	773	29	22417
	3	5.0	141	29	4089
	4	5.0	173	29	5017
	5	5.0	34	111	3774
	6	5.0	34	30	1020
	7	5.0	52	71	3692
	8	5.0	10	159	1590
	9	5.0	157	121	18997
	10	5.0	110	35	3850
	11	5.0	32	35	1120
	12	5.0	10	35	350
	13	5.0	7	131	917
CA50	14	6.3	23	122	2806
	15	6.3	23	36	828
	16	8.0	19	122	2318
	17	10.0	48	VAR	VAR
	18	10.0	18	VAR	VAR
	19	10.0	38	533	20254
	20	10.0	12	VAR	VAR
	21	10.0	4	67	268
	22	12.5	66	VAR	VAR
	23	12.5	198	542	107316
	24	12.5	8	83	664
	25	12.5	12	382	4584
	26	12.5	12	VAR	VAR
	27	16.0	36	VAR	VAR
	28	16.0	28	VAR	VAR
	29	16.0	32	553	17696
	30	16.0	12	107	1284

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT (Barras)	PESO (kg)
CA50	6.3	36.4	4	8.9
	8.0	23.2	2	9.1
	10.0	354.9	30	218.8
	12.5	1271	106	1224.4
	16.0	336.4	29	530.9
CA60	5.0	2058.1	-	317.2
PESO TOTAL (kg)				
CA50	1992.1			
CA60	317.2			

Volume de concreto (C-30) = 20.27 m³
Área de forma = 266.78 m²

R01	DIVISÃO DAS FASES	18/03/2026
R00	EMISSÃO INICIAL	12/02/2026
Nº	DESCRIÇÃO	DATA

OBS.: TODAS AS MEDIDAS DEVEM SER CONFERIDAS EM OBRA. CASO SEJA NECESSÁRIO ALGUMA ALTERAÇÃO, ENTRAR EM CONTATO COM O PROJETISTA RESPONSÁVEL.

ASSINATURAS

CLIENTE:

PREFEITURA MUNICIPAL DE GOVERNADOR CELSO RAMOS
82.882.375/0001-66

RESPONSÁVEL TÉCNICO:

MARCO AURELIO SACENTI:04158791910 Assinado de forma digital por MARCO AURELIO SACENTI:04158791910 Dados: 2026.03.19 15:23:52 -03'00'

MARCO AURÉLIO SACENTI
CREA/SC 082270-7

ESTRUTURAL

ENGEPLANTI

PROJETOS E SUPERVISÃO

Engeplanti Consultoria LTDA./ CREA nº 163388-0 / CNPJ 23.002.667/0001-29
Rua Cristovão Nunes Pires, 110 - CEP 88010-120 - Florianópolis / Fone: (48) 3364-2209 / e-mail: projetos@engeplanti.com.br

OBRA:
CEI DULCE GODINHO NAZÁRIO

INSCRIÇÃO IMOBILIÁRIA:

ENDEREÇO:
RUA SÃO PEDRO, CANTO DOS GANCHOS, GOVERNADOR CELSO RAMOS/SC

CONTEÚDO:
DETALHAMENTO PILARES TRAVAMENTO
EDIFICAÇÃO PRINCIPAL (100)

ESCALA: INDICADA

ETAPA: PROJETO EXECUTIVO

PRANCHA: EST 15/35

ARQUIVO:
029-23-29-CEI DULCE-EST-PE-115-DETALHAMENTO PILARES TRAVAMENTO-R01.dwg