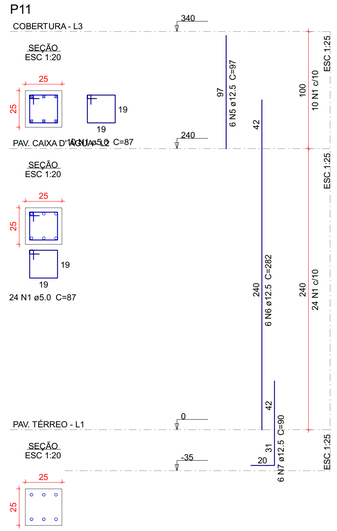
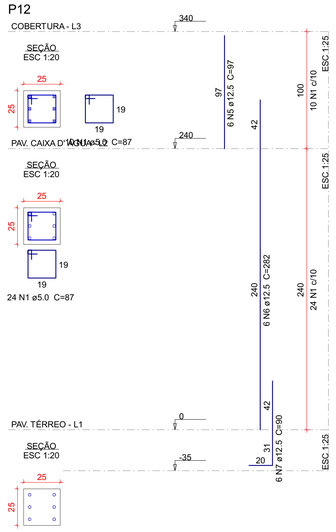
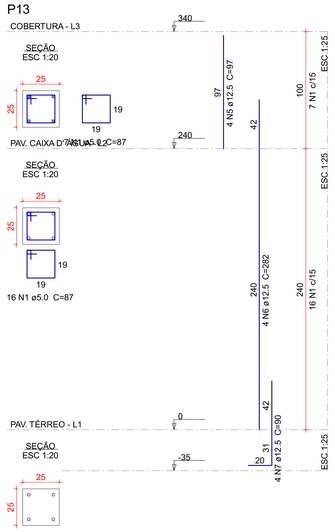
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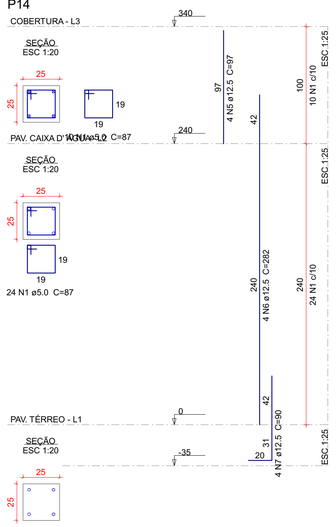
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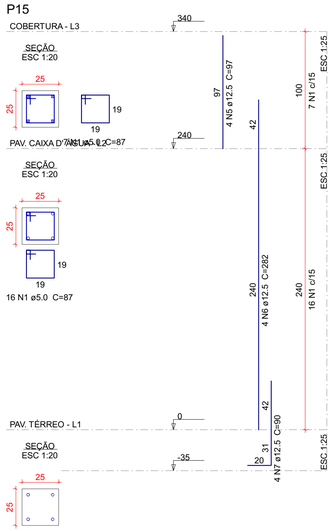
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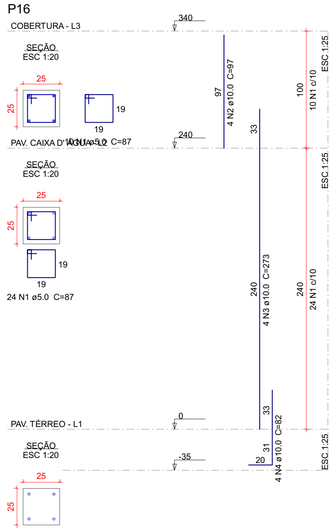
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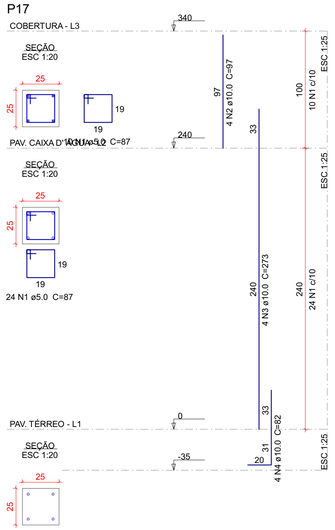
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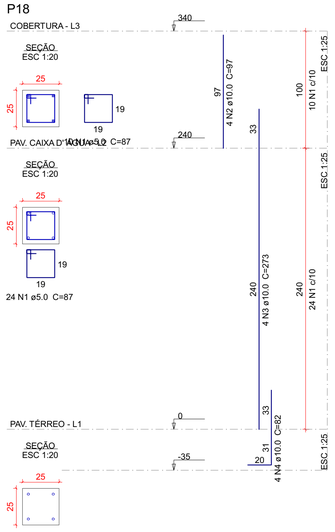
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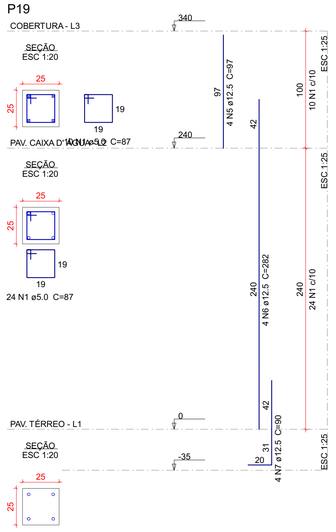
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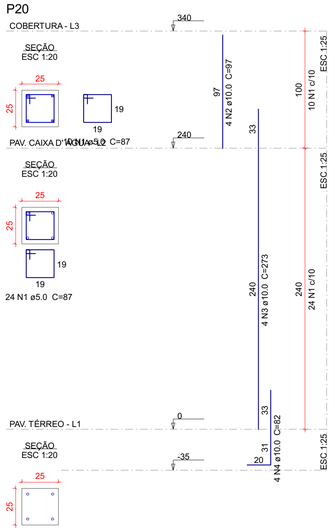
P18



P19



P20



Relação do aço

P11 P12 P13
P14 P15 P16
P17 P18 P19
P20

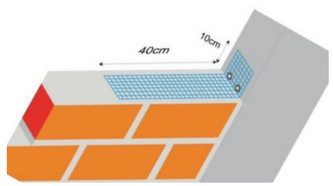
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	318	87	27666
CA50	2	10.0	16	97	1552
	3	10.0	16	273	4368
	4	10.0	16	82	1312
	5	12.5	28	97	2716
	6	12.5	28	282	7896
	7	12.5	28	90	2520

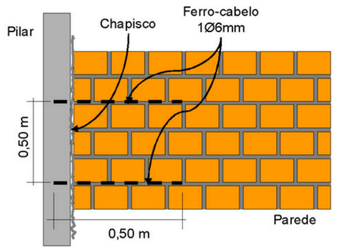
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	72.4	44.6
	12.5	131.4	126.5
CA60	5.0	276.7	42.6

PESO TOTAL (kg)	
CA50	171.1
CA60	42.6

Volume de concreto (C-30) = 2.12 m³
Área de forma = 34 m²





Ligação da parede com pilar

- A superestrutura (vigas e pilares) deverá ser executada antes da alvenaria de vedação.
- Não deve ser utilizada alvenaria como formas (aumenta o consumo de concreto, prejudica o cobrimento e absorção de água)
- Para correta ancoragem/aderência das alvenarias nos pilares utilizar tela metálica pinada ou ferro cabelo a cada 3 ou 4 fiadas.

PROJETO ESTRUTURAL

EM CASO DE DÚVIDAS CONSULTAR A DIVISÃO DE PROJETOS F. (41) 3888-4850

OBRA:
Bloco Multiuso - Campus União da Vitória

AUTOR(ES) DO PROJETO:
Eng. Civil Tiago Radaskievicz
PR 132.448/D

PROPRIETÁRIO:
INSTITUTO FEDERAL DO PARANÁ - CNPJ: 10.652.179/0001-15

RESPONSÁVEL EXECUÇÃO:
A LICITAR

REFERÊNCIA:
Pilares

DATA: 09/10/2026
ESCALA: INDICADA
DESENHO: Rada
ARQUIVO:
PRANCHA: 9 / 10
PLOTAGEM: 09/10/2026

DIRETORIA DE INFRAESTRUTURA - DI