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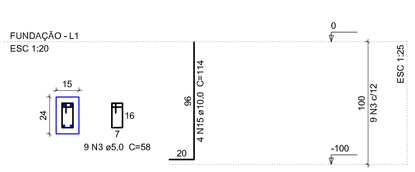

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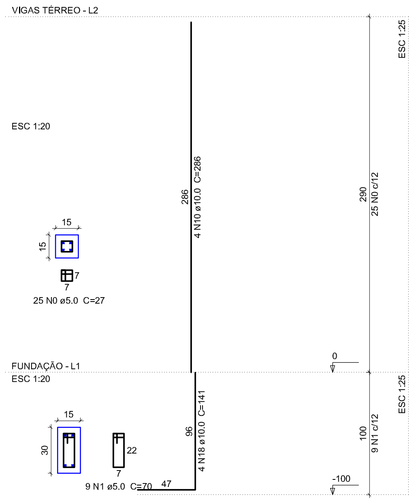

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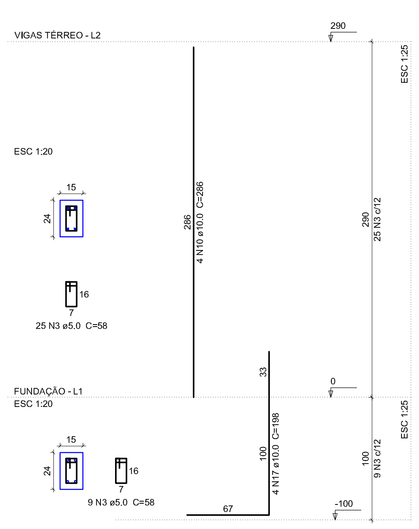

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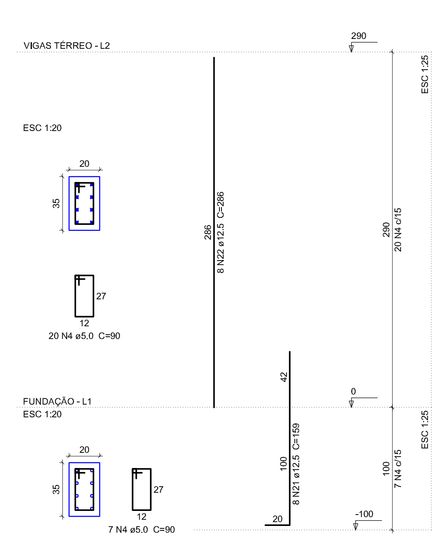

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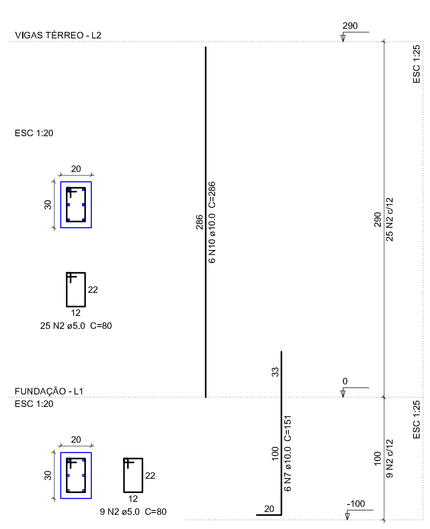

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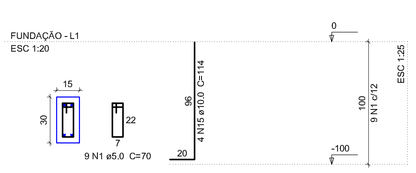

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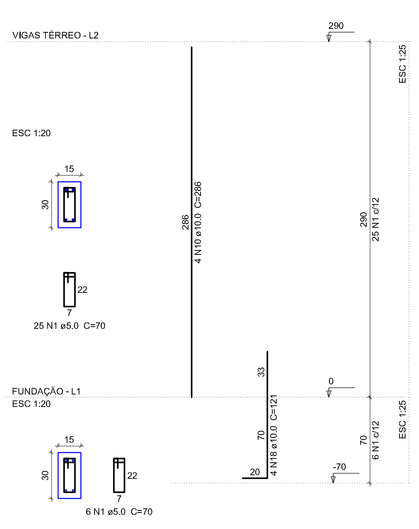

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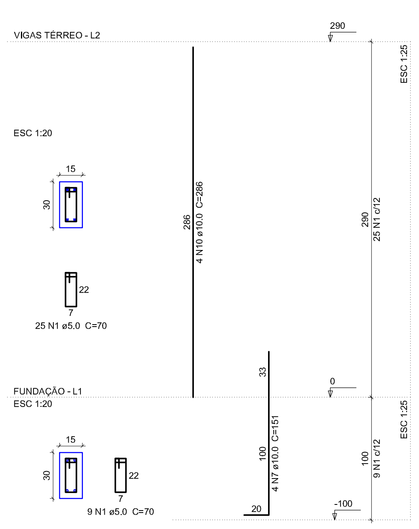

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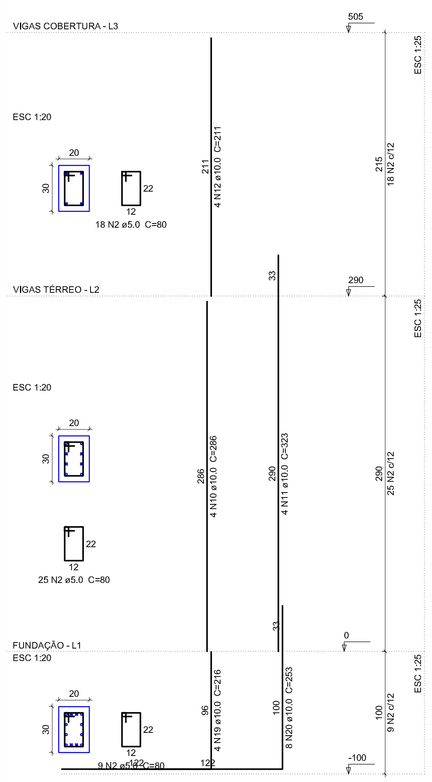

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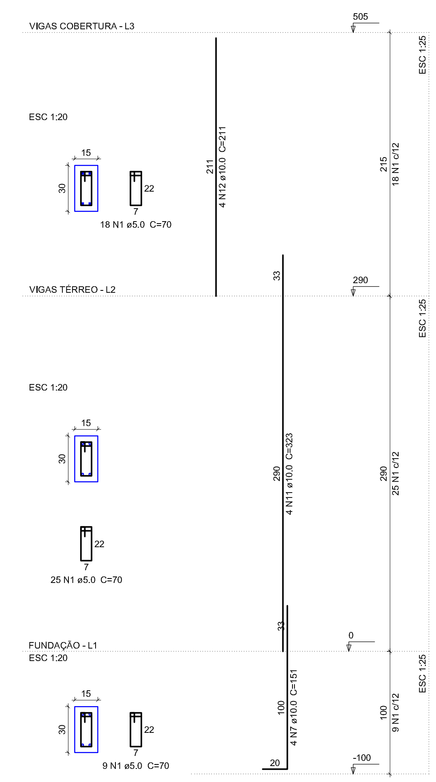

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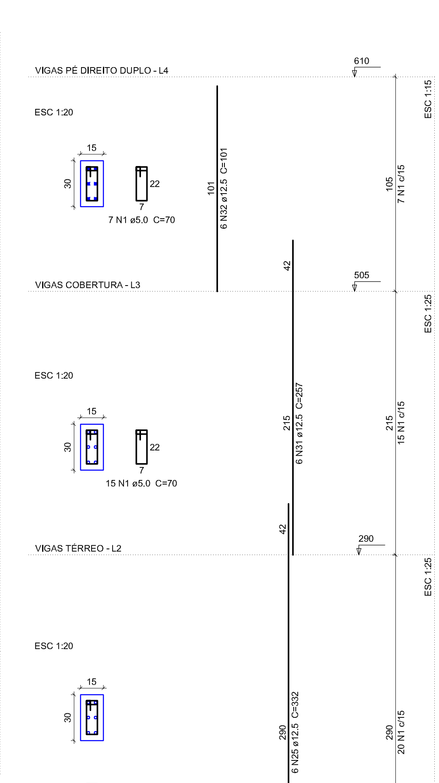

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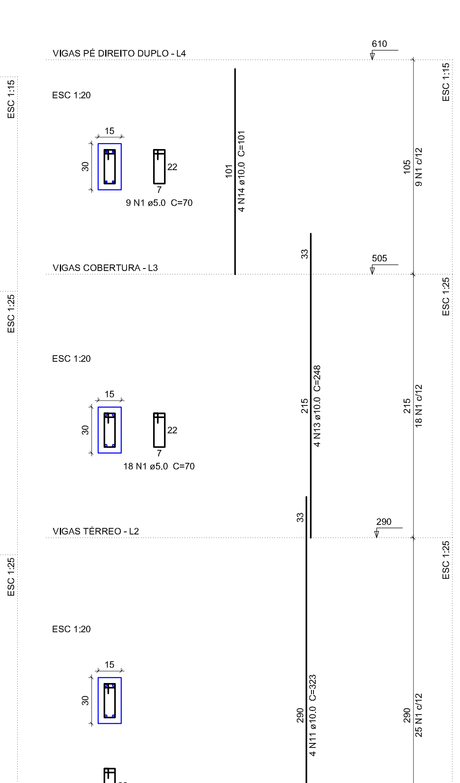

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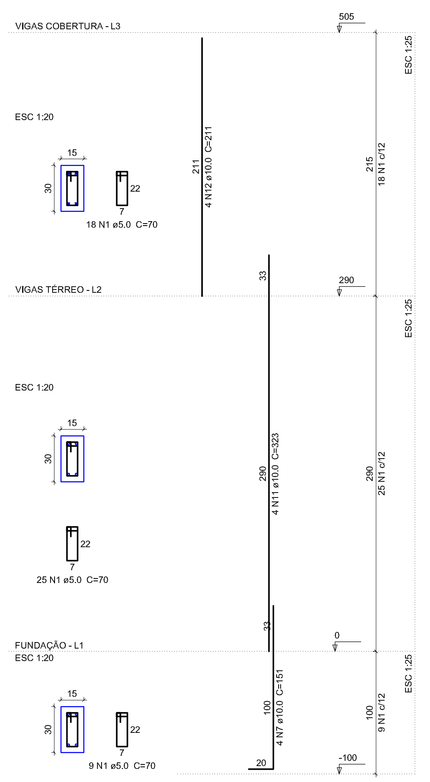

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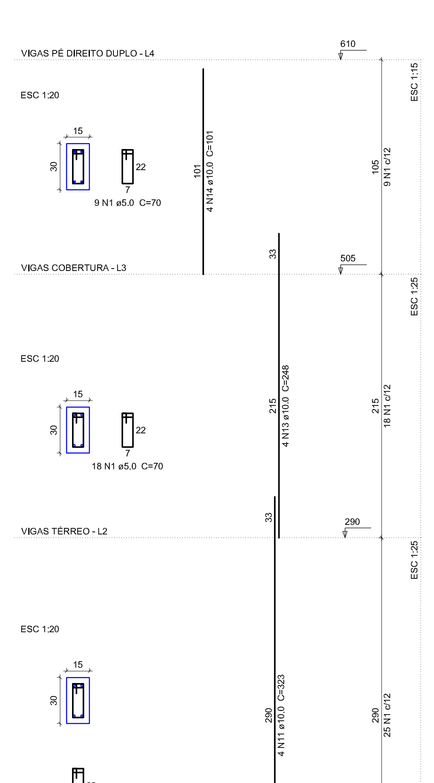

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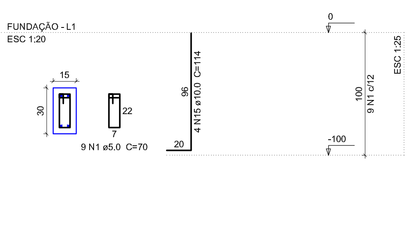

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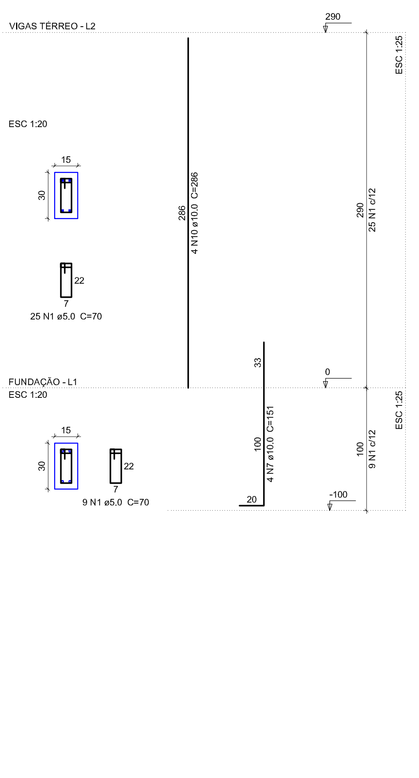

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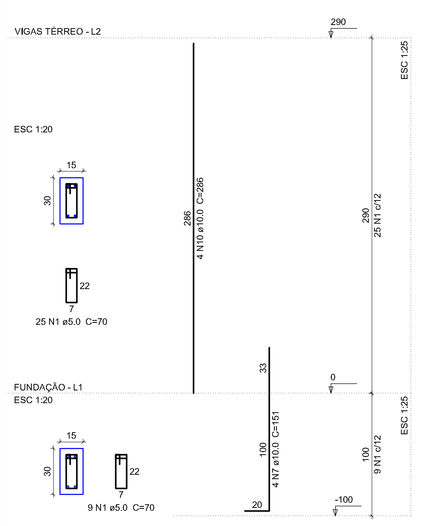

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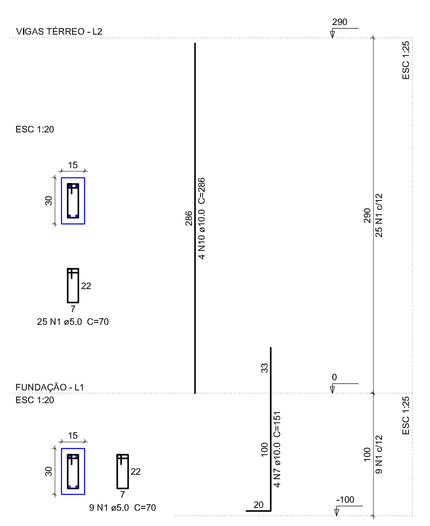

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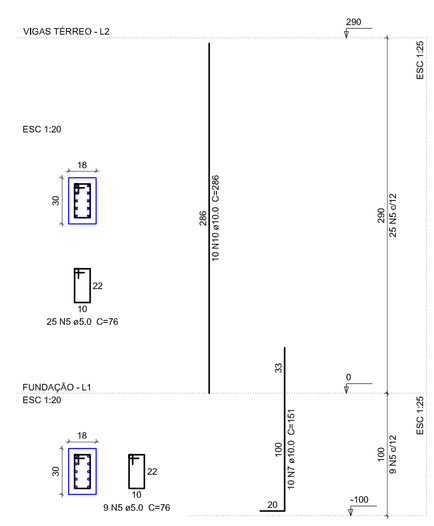

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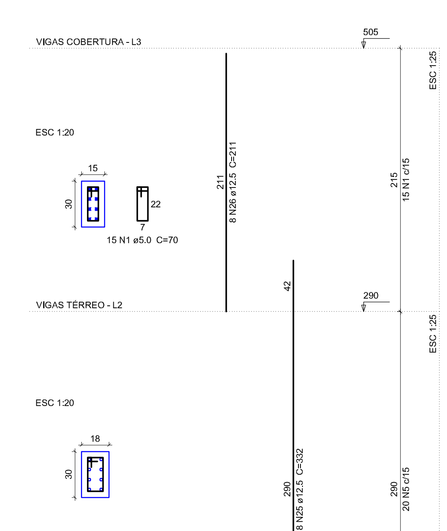

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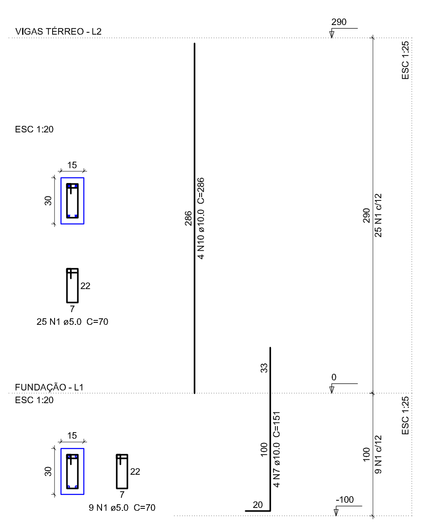

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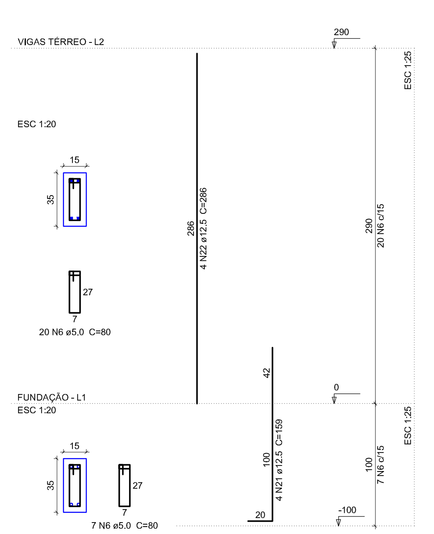

NOTAS
A. Confrontar medidas do projeto estrutural com projeto arquitetônico
B. Executar passagem de tubulação de água, esgoto e eletricidade
C. Molhar as formas antes da concretagem
D. Conservar úmida as peças concretadas durante o tempo de cura
E. Executar limpeza de formas ou partes da estrutura em contato com a concretagem
F. Usar apoio do tipo caranguejo para manter armaduras negativas em posição durante a concretagem

COBRIMENTO DAS ARMADURAS	
ELEMENTOS ESTRUTURAIS	COBRIMENTO NOMINAL
Pilares	4,0 cm
Vigas	4,0 cm
Lajes	3,5 cm
Sapatas	4,0 cm
CLASSE DE AGRESSIVIDADE	III (FORTE) - CONTROLE RIGOROSO DAS DIMENSÕES

CARACTERÍSTICAS DO CONCRETO	
Classe de Resistência	C-30
Módulo de Elasticidade	280 tf/cm²
Fator a/c	< 0,55

ENGEON ENGENHARIA

(46) 3306-6601 | engeonengenharia@gmail.com

CMEI
NOSSA SENHORA DOS NAVEGANTES

PROJETO ESTRUTURAL

PROJETO	EXECUÇÃO
ENGENHEIRO CIVIL JEFFERSON MADEL VALCANOVER CREA/PR 19.637/D	

PROPRIETÁRIO
PREFEITURA MUNICIPAL DE PARANAGUÁ
CNPJ: 76.017.458/0001-15

ESCALA	CONTEÚDO	CATEGORIA
INDICADA	PILARES	ESTABELECIMENTO
DATA: OUTUBRO/2018		PRANCHA: **08/20**
DESENHO: MATHEUS I. SANTOS	LOCAL: ILHA DOS VALADARES – VILA BELA PARANAGUÁ – PR	