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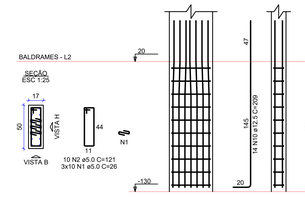

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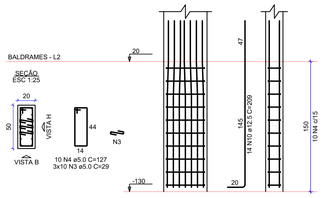

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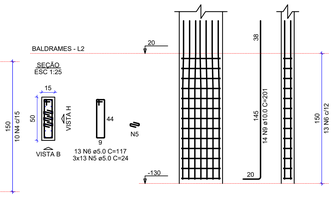

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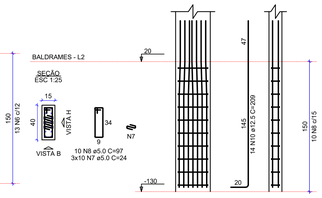


RELAÇÃO DO AÇO

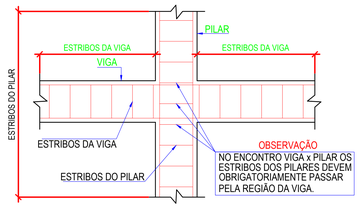
P60 P66 P61 P65

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	30	26	780
	2	5.0	10	121	1210
	3	5.0	30	29	870
	4	5.0	10	127	1270
	5	5.0	39	24	936
	6	5.0	13	117	1521
	7	5.0	30	24	720
	8	5.0	10	97	970
CA50	9	10.0	14	201	2814
	10	12.5	42	209	8778

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	28.1	19.1
	12.5	87.8	93
CA60	5.0	82.8	14
PESO TOTAL (kg)			
CA50	112.1		
CA60	14		

Volume de concreto (C-25) = 0.36 m³
Área de forma = 5.88 m²



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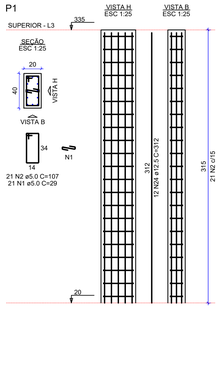

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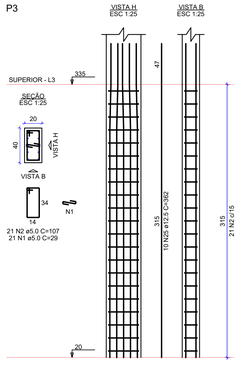

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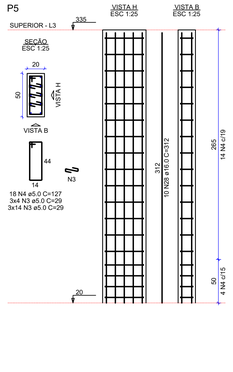

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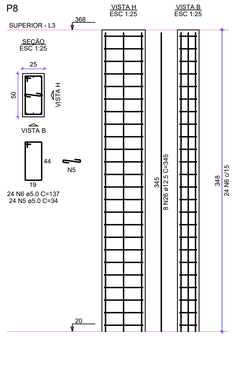

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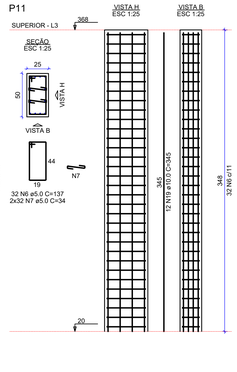

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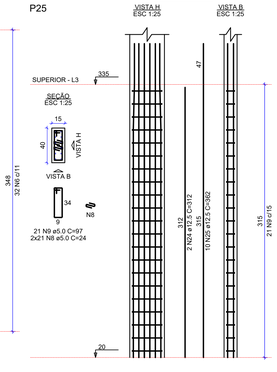

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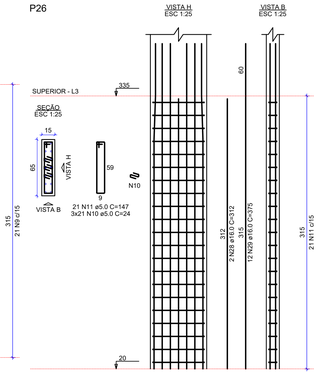

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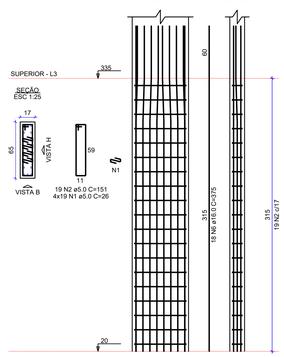

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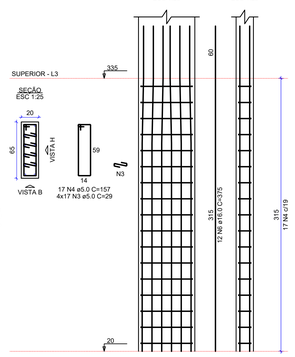


RELAÇÃO DO AÇO

P1 P3 P5 P25
P11 P26
P8 P27
P29 P28
P30 P31 P33 P62
P34 P36
P37 P38
P39 P40
P41 P43
P42 P45
P44 P47
P48 P49
P50 P51
P53 P54
P55 P58
P52 P63
P64 P65

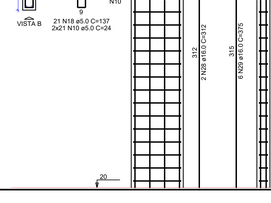
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	42	29	1218
	2	5.0	10	121	1210
	3	5.0	54	29	1566
	4	5.0	18	127	2286
	5	5.0	54	29	1530
	6	5.0	66	127	7572
	7	5.0	54	24	1944
	8	5.0	231	24	5544
	9	5.0	303	97	29391
	10	5.0	870	24	20880
	11	5.0	51	127	6477
	12	5.0	51	36	1836
	13	5.0	36	151	5436
	14	5.0	216	24	5184
	15	5.0	102	117	11934
	16	5.0	102	117	11934
	17	5.0	21	117	2457
	18	5.0	136	117	17262
CA50	19	10.0	12	345	4140
	20	10.0	16	353	5648
	21	10.0	16	353	5648
	22	10.0	280	40	11200
	23	10.0	90	169	9464
	24	12.5	28	312	8736
	25	12.5	6	345	2070
	26	12.5	8	345	2760
	27	12.5	6	94	564
	28	16.0	68	312	21216
	29	16.0	140	375	52500
	30	16.0	8	345	2760
	31	16.0	16	345	5520
	32	16.0	24	332	7968

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	2197	2853.0
	12.5	2722.6	2892.0
	16.0	881.6	1378.0
CA60	5.0	1407.2	215.0
PESO TOTAL (kg)			
CA50	2893.0		
CA60	215.0		

Volume de concreto (C-25) = 10.05 m³
Área de forma = 160.96 m²

P29



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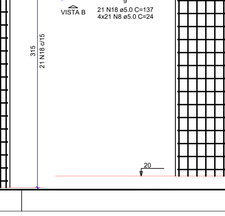

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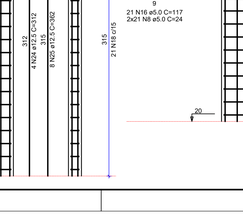

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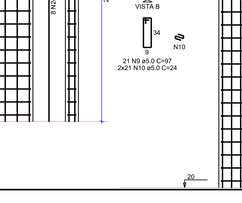

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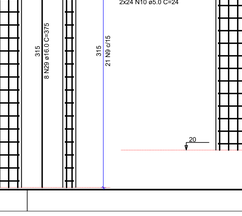

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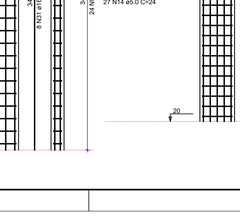

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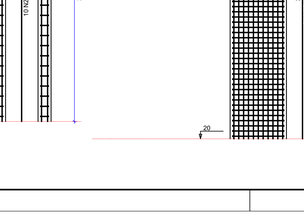

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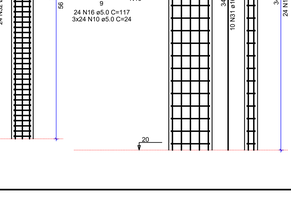

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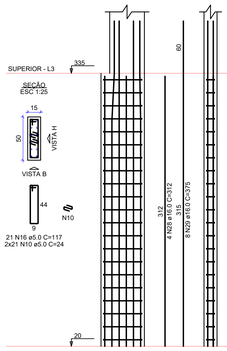

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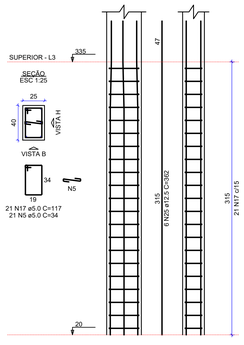

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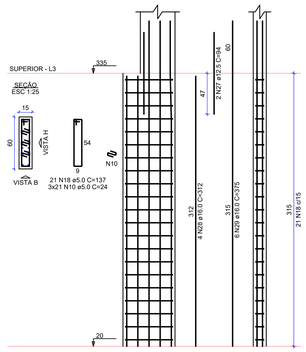

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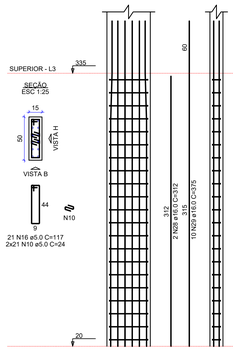

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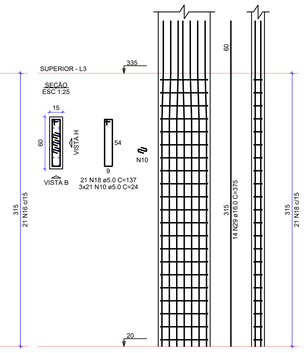

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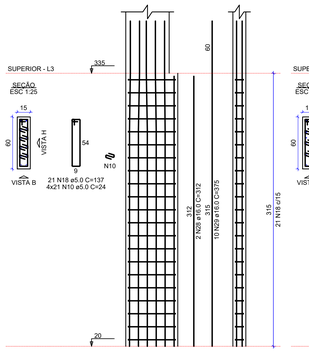

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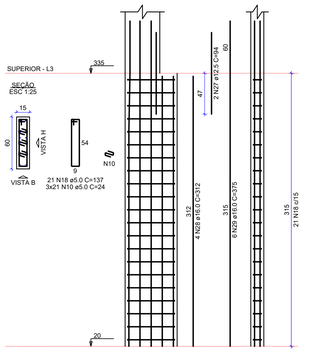

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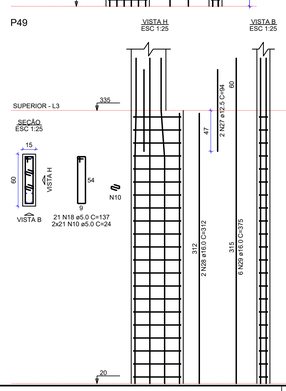

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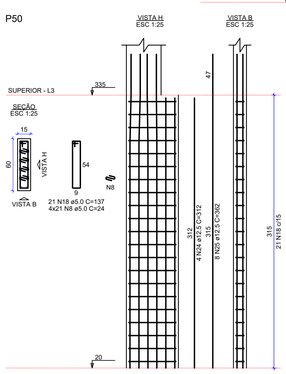

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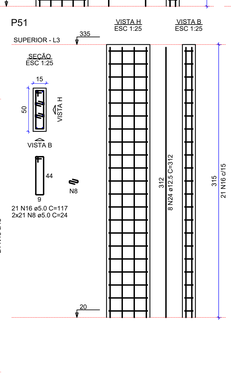

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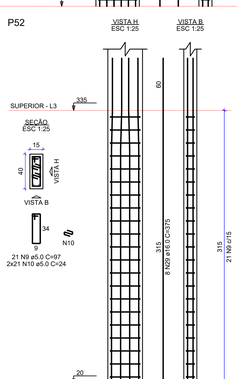

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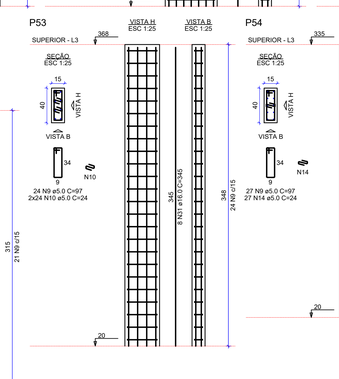

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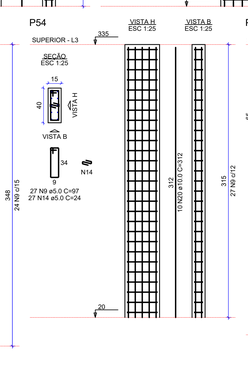

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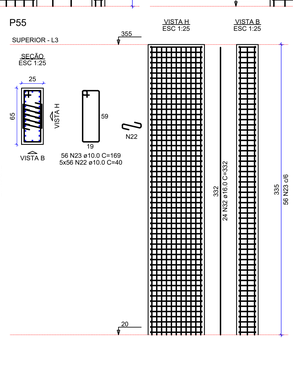

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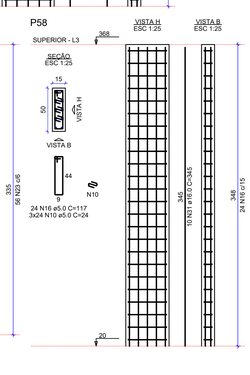

Lucchese
ENGENHARIA E CONSULTORIA

PROJETO DE ESTRUTURA
EXECUTIVO

CLIENTE:
PREFEITURA DE CONCEIÇÃO DO CASTELO - ES
CNPJ: 27.165.570/0001-98

CHRISTIANO SPADETTO:00375556770
Assinado digitalmente por CHRISTIANO SPADETTO:00375556770 Data: 2023.12.14 15:36:42 -03'00'

TÍTULO:
RECONSTRUÇÃO DA EMEF MATA FRIA E REFORMA DA QUADRA POLIESPORTIVA

CONCEIÇÃO DO CASTELO - ES, CEP: 29370-000

REFERÊNCIA:
COMUNIDADE RURAL DA MATA FRIA
COORDENADAS: 20°17'05.3"S 41°10'52.2"W

FOLHA 15/28

RESPONSÁVEL TÉCNICO:
Arquiteto e Urbanista Luiz Alberto Gonçalves Barbosa

CAU nº A74193-7

LUIZ ALBERTO GONCALVES BARBOSA:02965841180
Assinado de forma digital por LUIZ ALBERTO GONCALVES BARBOSA:02965841180 Dados: 2023.12.13 14:15:49 -03'00'

DESENHO:	DATA:	FORMATO:	ESCALA:	UNIDADE:	ARQUIVO:
FLÁVIO N. BORGES	DEZEMBRO/2023	A0	INDICADA	METRO	EMEF MATA FRIA - ESTRUTURAL - R02.dwg

Conteúdo:
Pilares