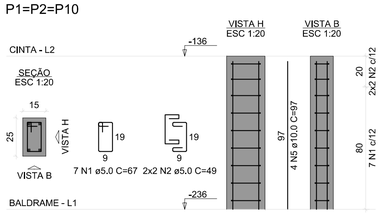
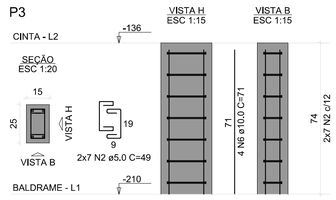
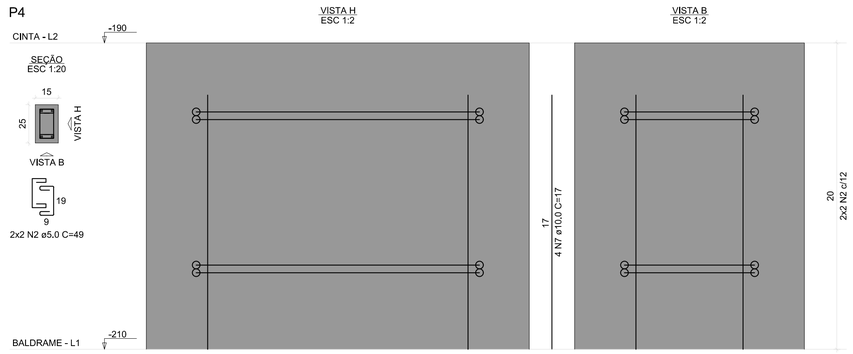
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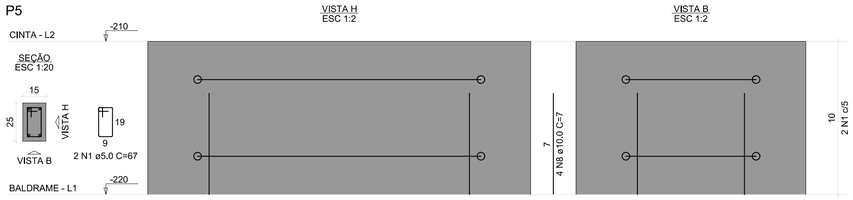
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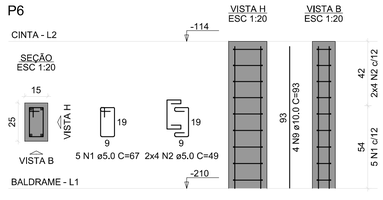
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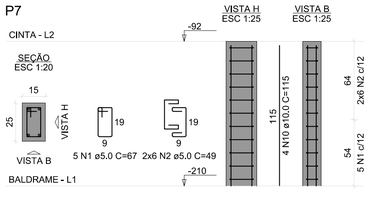
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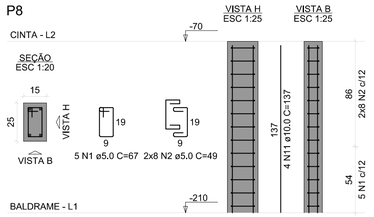
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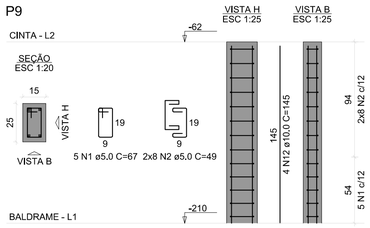
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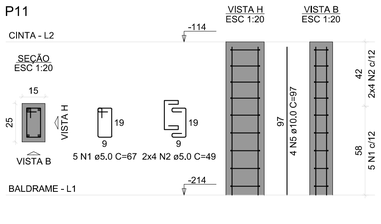
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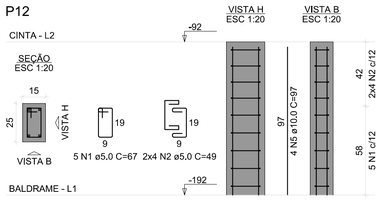
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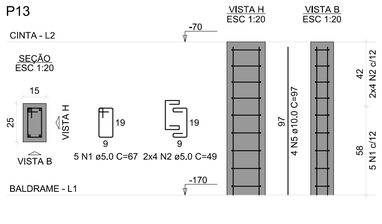
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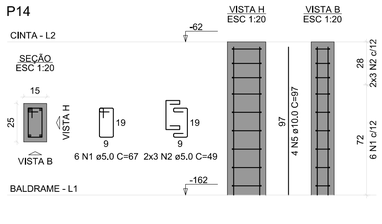
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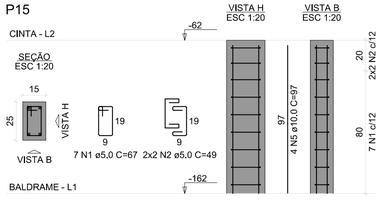
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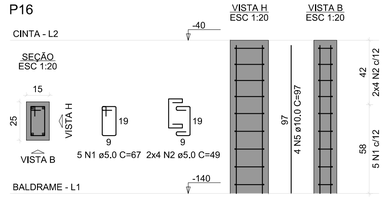
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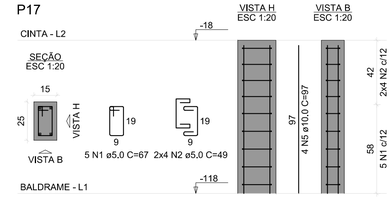
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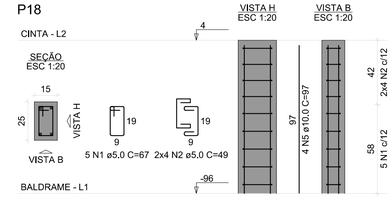
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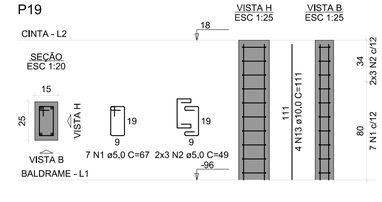
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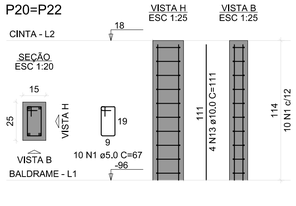
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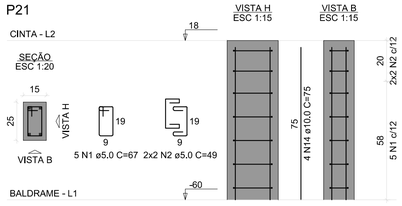
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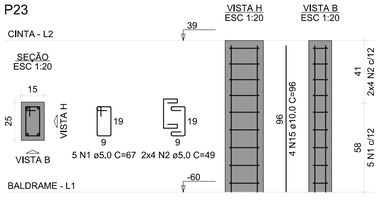
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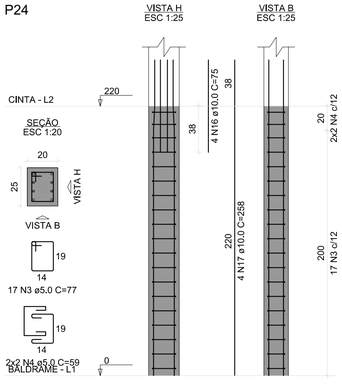
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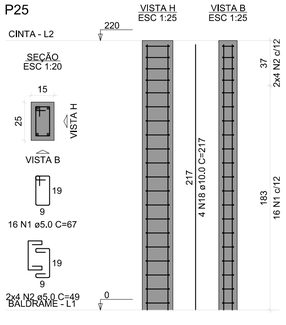
P23



P24



P25



RELAÇÃO DO AÇO

3xP1	P3	P4
P5	P6	P7
P8	P9	P11
P12	P13	P14
P15	P16	P17
P18	P19	2xP20
P21	P23	P24
P25		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	139	67	9313
	2	5,0	166	49	8134
	3	5,0	17	77	1309
	4	5,0	4	59	236
CA50	5	10,0	44	97	4268
	6	10,0	4	71	284
	7	10,0	4	17	68
	8	10,0	4	7	28
	9	10,0	4	93	372
	10	10,0	4	115	460
	11	10,0	4	137	548
	12	10,0	4	145	580
	13	10,0	12	111	1332
	14	10,0	4	75	300
	15	10,0	4	96	384
	16	10,0	4	75	300
	17	10,0	4	258	1032
	18	10,0	4	217	868

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10,0	108,2	73,4
CA60	5,0	189,9	32,2

PESO TOTAL (kg)	
CA50	73,4
CA60	32,2

Volume de concreto (C-25) = 1,02 m³
Área de forma = 21,46 m²

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Projeto: ESTRUTURAL RAMPA ESCOLA MUN. PROF. ACEIR MIGUEL MOREIRA

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Data: SET/2026

Escala: 1/50

Folha: 08

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Proprietário: PREF. MUN. DE SERRANIA
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