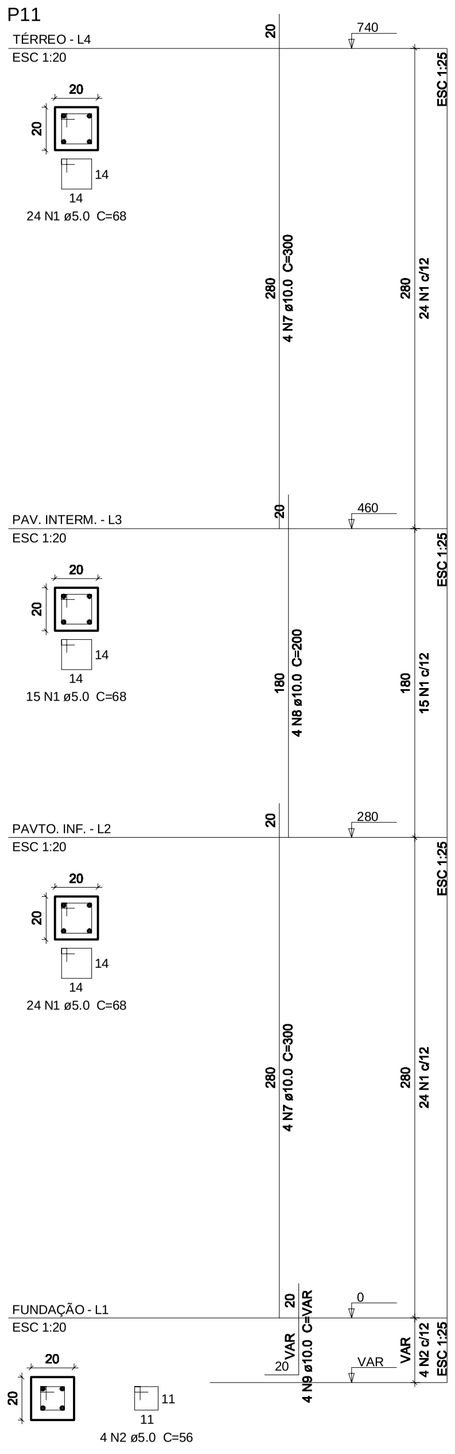

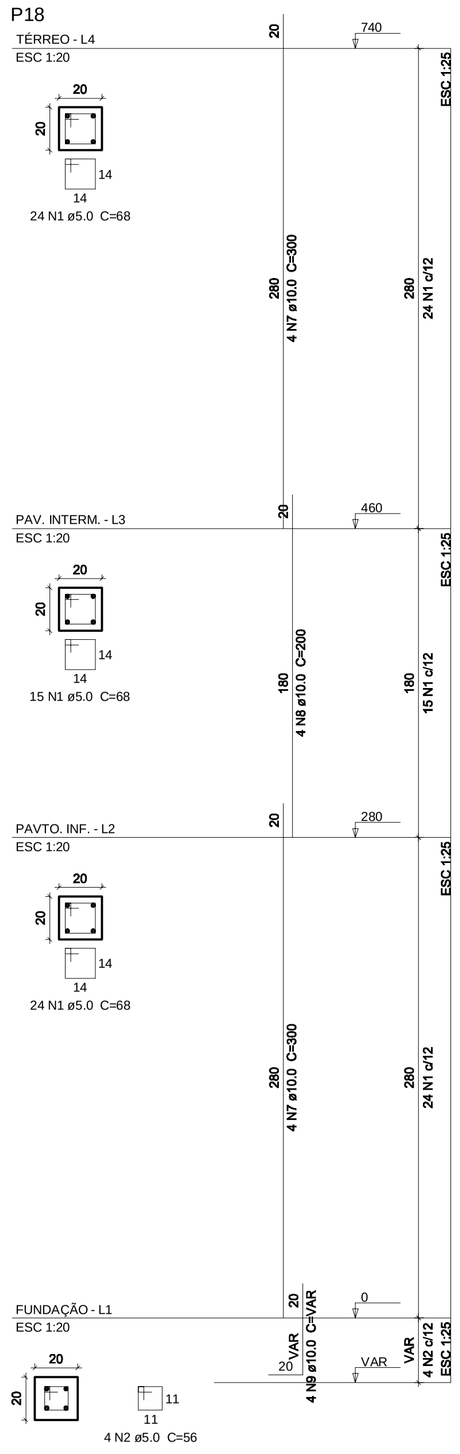

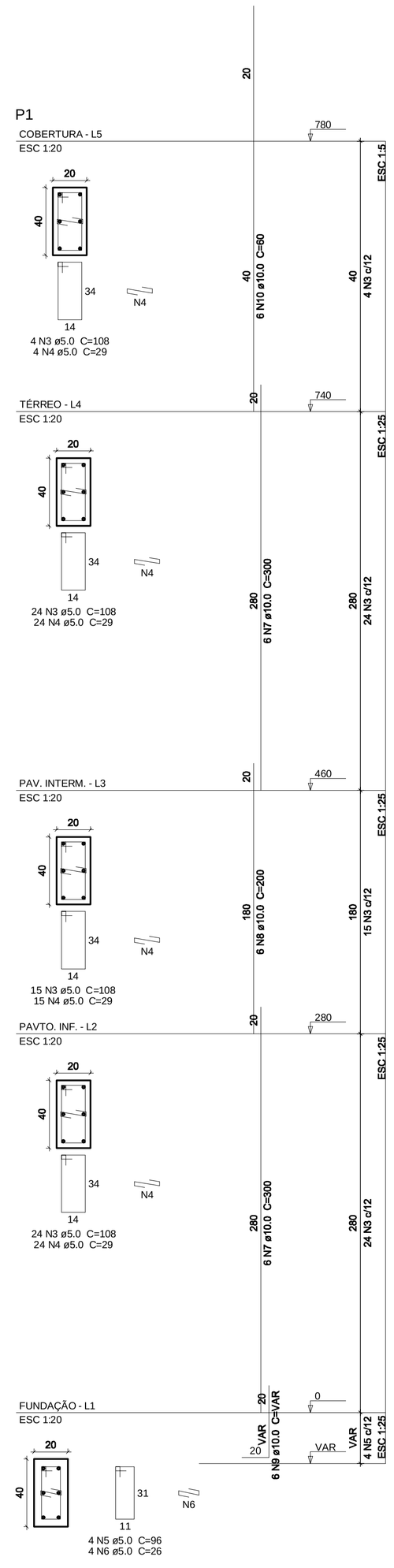

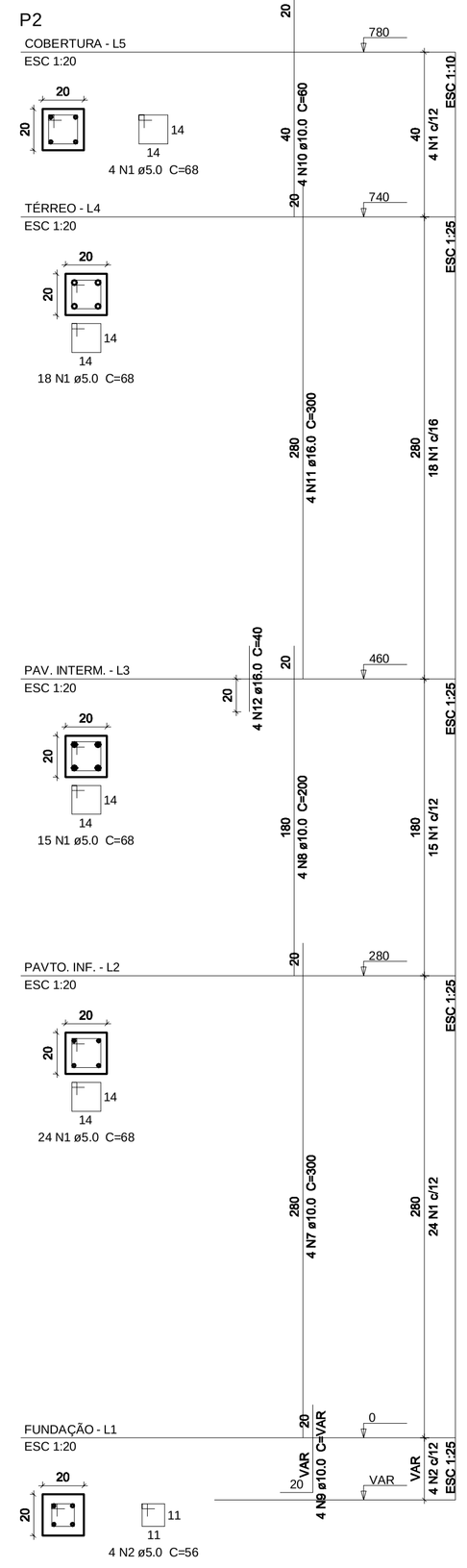

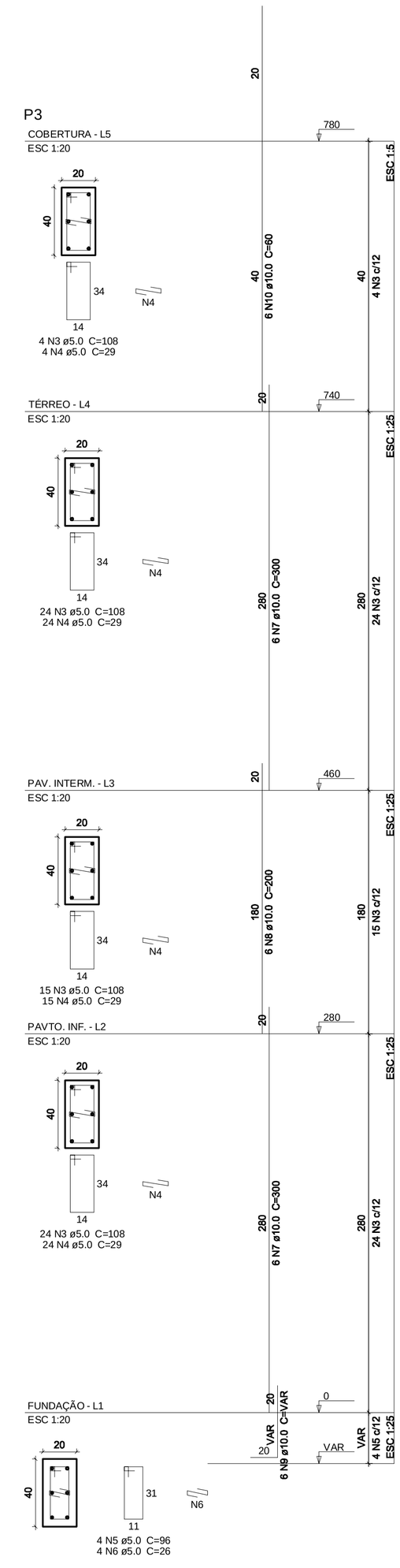

Relação do aço

COBERTURA: P1 P2 P3

TÉRREO: P11 P18

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	187	68	12716
	2	5.0	12	56	672
	3	5.0	134	108	14472
	4	5.0	134	29	3886
	5	5.0	8	96	768
	6	5.0	8	26	208
CA50	7	10.0	44	300	13200
	8	10.0	24	200	4800
	9	10.0	24	VAR	VAR
	10	10.0	16	60	960
	11	16.0	4	300	1200
	12	16.0	4	40	160

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	206.7	140.1
	16.0	13.6	23.6
CA60	5.0	327.3	55.5

PESO TOTAL (kg)	
CA50	163.8
CA60	55.5

Volume de concreto (C-30) = 2.26 m³
Área de forma = 38.61 m²

DESCRIÇÃO	DATA	EXEC.	VERIF.	APROV.

CONTRATADA:
VIAVOZ LTDA

CONTRATO Nº

RT: SINVAL LADEIRA	PROJ.: ROGER WILLIAN ROSA
REG. CREA: 28.498/D	REG. CREA: 105.413/D
ASS.:	ASS.:
PROJ.:	
REG. CREA:	
ASS.:	

viavoz

CONTRATANTE:
PREFEITURA MUNICIPAL DE JOÃO NEIVA

PROGRAMA:
REFORMA E AMPLIAÇÃO DA ANTIGA EMEI HILDA BRITO

MUNICÍPIO/ÁREA:
JOÃO NEIVA / ES

TÍTULO:
PROJETO ESTRUTURAL
DETALHE
LAVANDERIA / VESTIÁRIOS – CRAS
ARRANQUE PILARES / PILARES P1–P2–P3–P11–P18

DATA:	ESCALA:	PRANCHA:
DEZEMBRO/2018	INDICADA	4.15

ARQUIVO: