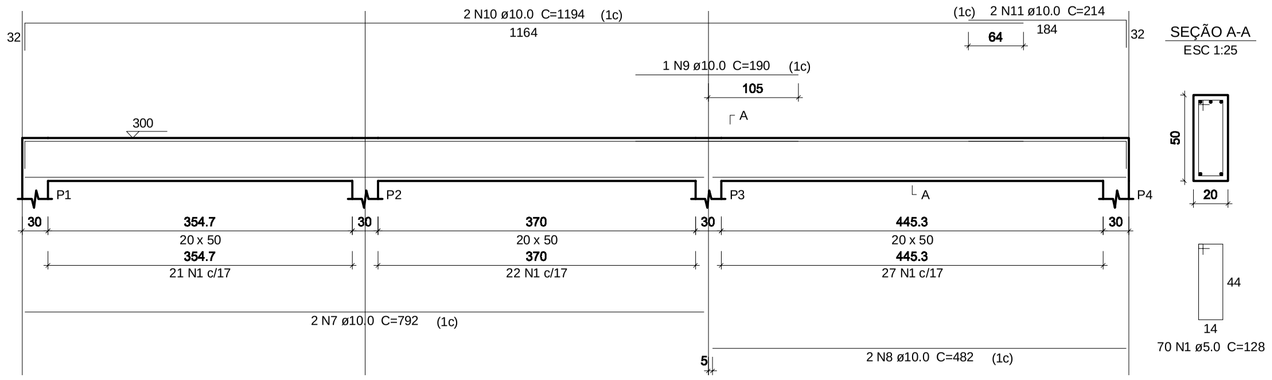
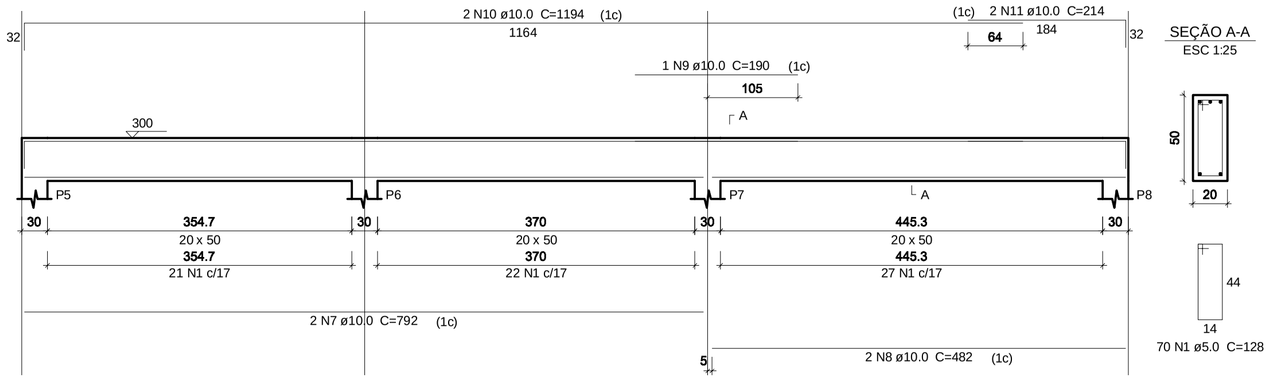
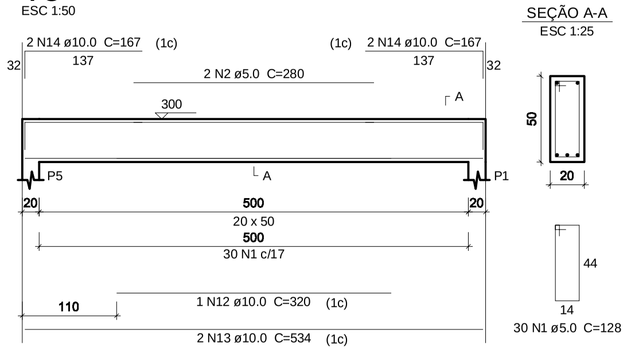
V1
ESC 1:50



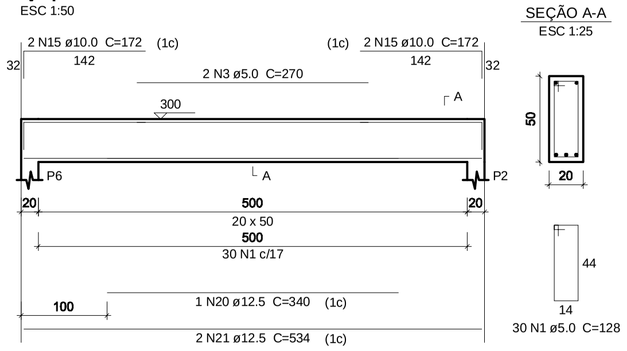
V2
ESC 1:50



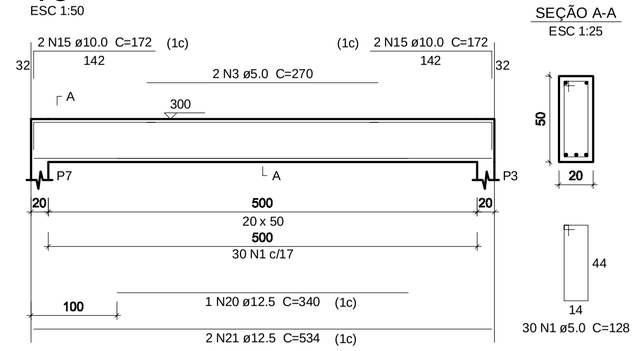
V3
ESC 1:50



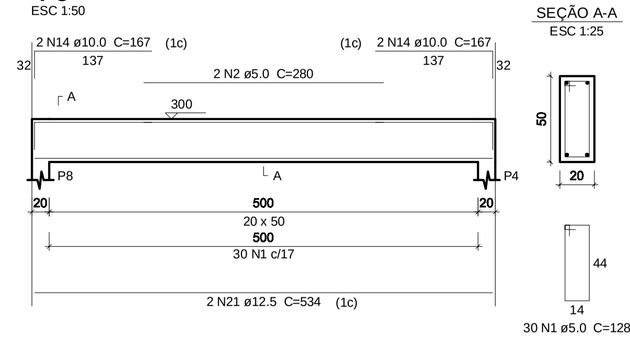
V4
ESC 1:50



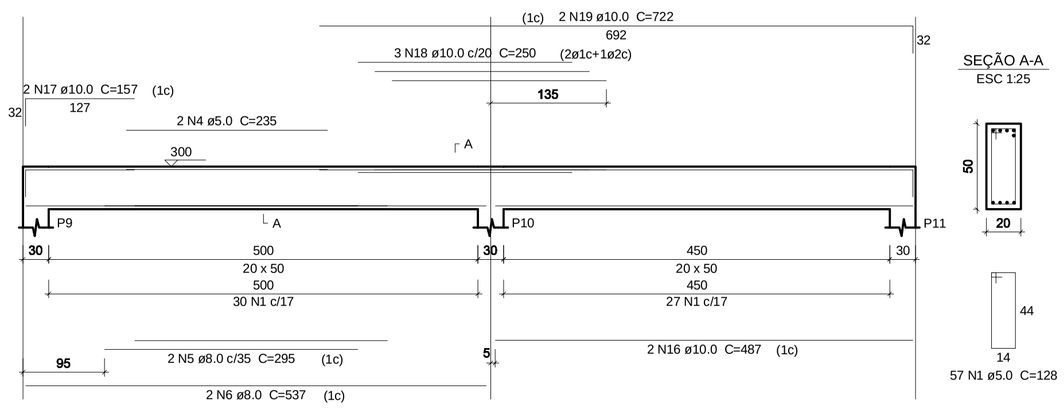
V5
ESC 1:50



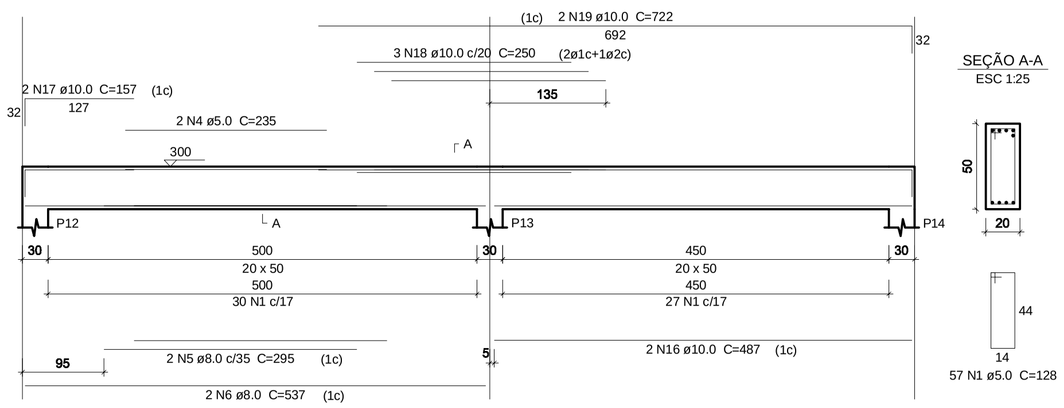
V6
ESC 1:50



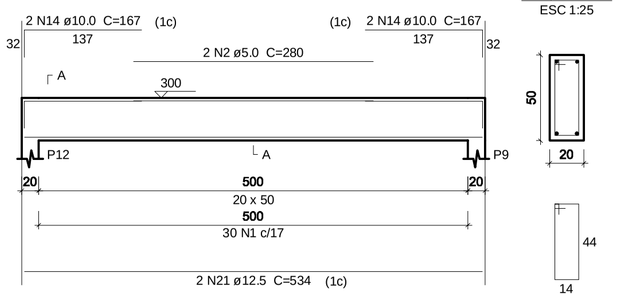
V7
ESC 1:50



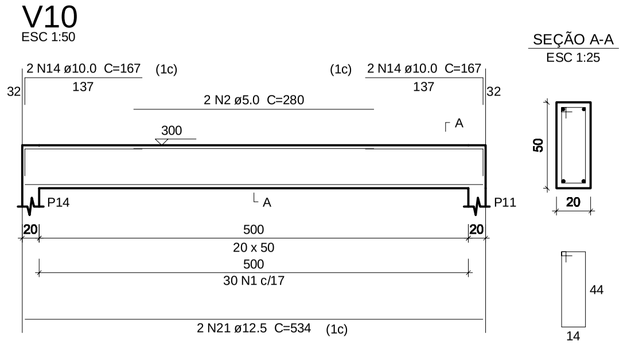
V8
ESC 1:50



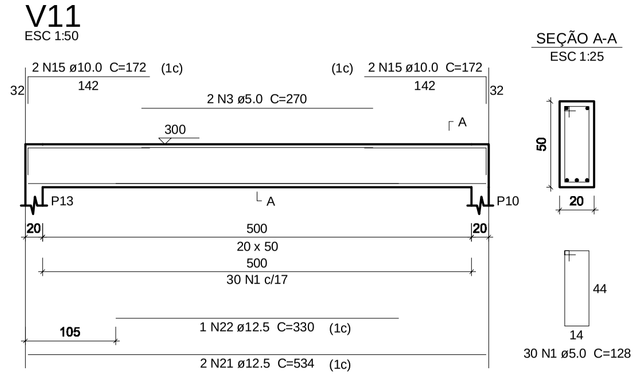
V9
ESC 1:50



V10
ESC 1:50



V11
ESC 1:50



Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	33.3	14.4
	10.0	242	164.1
	12.5	74.2	78.6
CA60	5.0	642	108.8

PESO TOTAL (kg)	
CA50	257.1
CA60	108.8

Volume de concreto (C-30) = 8.44 m³
Área de forma = 101.28 m²

Relação do aço

V1 V2 V3
V4 V5 V6
V7 V8 V9
V10 V11

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	464	128	59392
	2	5.0	8	280	2240
	3	5.0	6	270	1620
	4	5.0	4	235	940
CA50	5	8.0	4	295	1180
	6	8.0	4	537	2148
	7	10.0	4	792	3168
	8	10.0	4	482	1928
	9	10.0	2	190	380
	10	10.0	4	1194	4776
	11	10.0	4	214	856
	12	10.0	1	320	320
	13	10.0	2	534	1068
	14	10.0	16	167	2672
	15	10.0	12	172	2064
	16	10.0	4	487	1948
	17	10.0	4	157	628
	18	10.0	6	250	1500
	19	10.0	4	722	2888
	20	12.5	2	340	680
	21	12.5	12	534	6408
	22	12.5	1	330	330

	DESCRIÇÃO	DATA	EXEC.	VERIF.	APROV.

CONTRATADA:
VIAVOZ LTDA

CONTRATO Nº

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

CONTRATANTE:
PREFEITURA MUNICIPAL DE JOÃO NEIVA

PROGRAMA:
REFORMA E AMPLIAÇÃO DA ANTIGA EMEI HILDA BRITO

MUNICÍPIO/ÁREA:
JOÃO NEIVA / ES

TÍTULO:
PROJETO ESTRUTURAL
DETALHE
SALA DE ATIVIDADES / RECEPÇÃO
VIGAS V1 ATÉ V11

DATA: DEZEMBRO/2018
ESCALA: INDICADA
PRANCHA: 4.34
ARQUIVO: