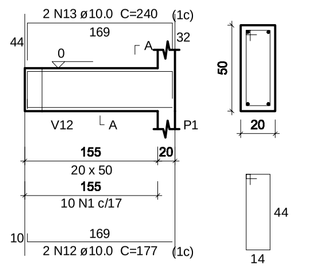
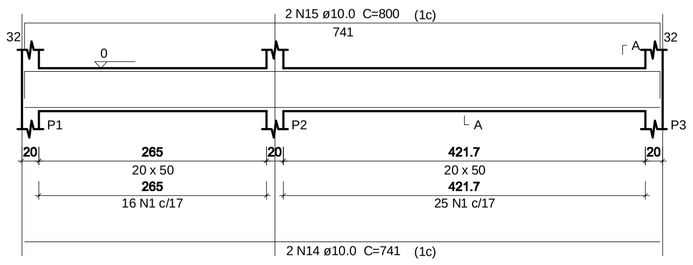
V1
ESC 1:50



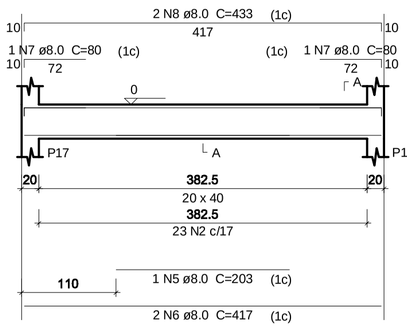
SEÇÃO A-A
ESC 1:25

V2
ESC 1:50



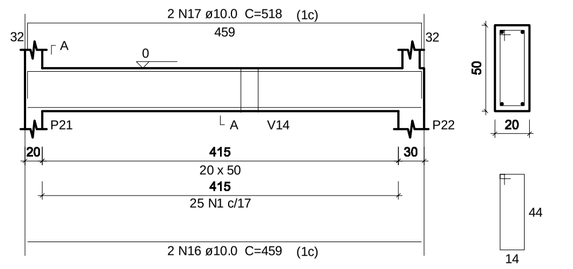
SEÇÃO A-A
ESC 1:25

V4
ESC 1:50



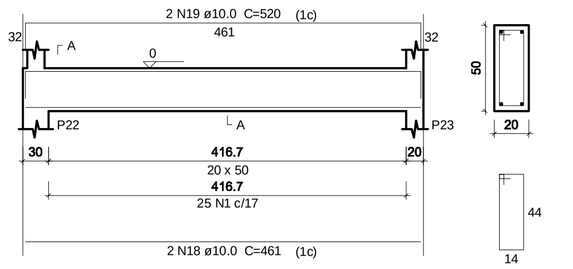
SEÇÃO A-A
ESC 1:25

V5
ESC 1:50



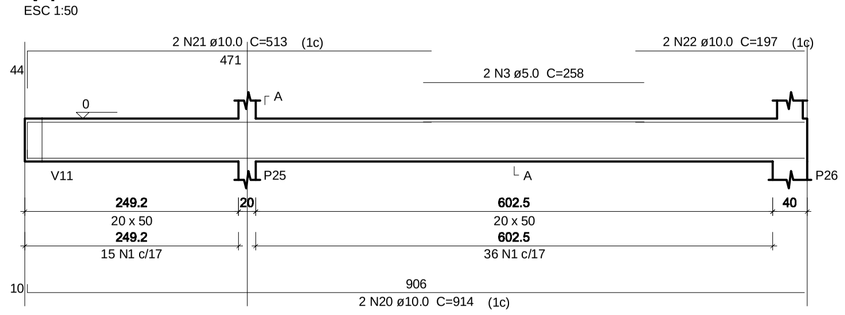
SEÇÃO A-A
ESC 1:25

V6
ESC 1:50



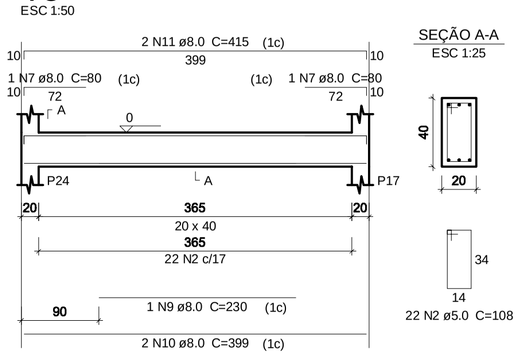
SEÇÃO A-A
ESC 1:25

V7
ESC 1:50



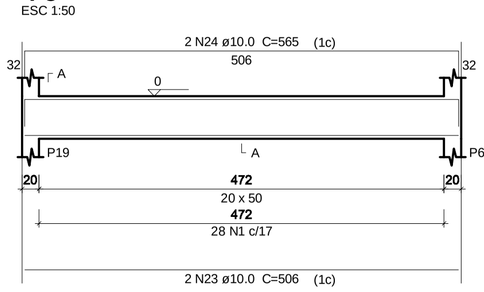
SEÇÃO A-A
ESC 1:25

V8
ESC 1:50



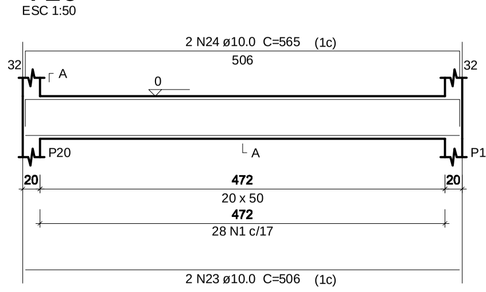
SEÇÃO A-A
ESC 1:25

V9
ESC 1:50



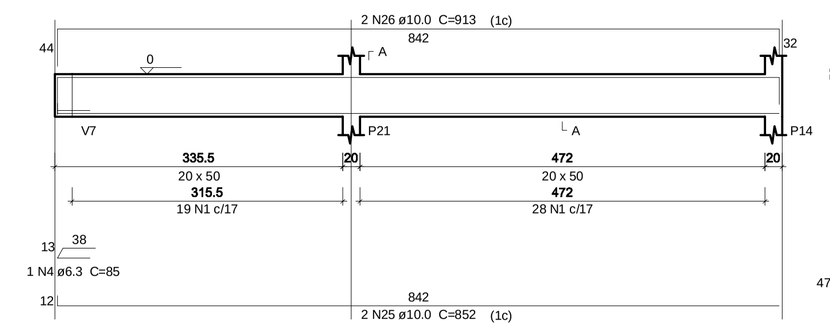
SEÇÃO A-A
ESC 1:25

V10
ESC 1:50



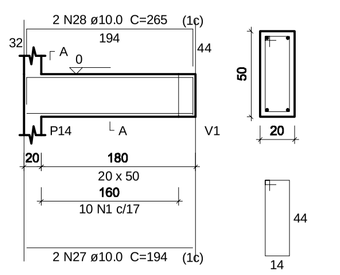
SEÇÃO A-A
ESC 1:25

V11
ESC 1:50



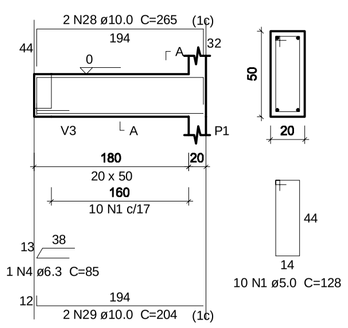
SEÇÃO A-A
ESC 1:25

V12
ESC 1:50



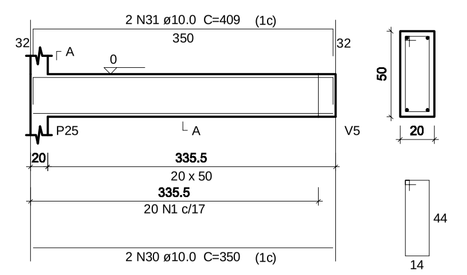
SEÇÃO A-A
ESC 1:25

V13
ESC 1:50



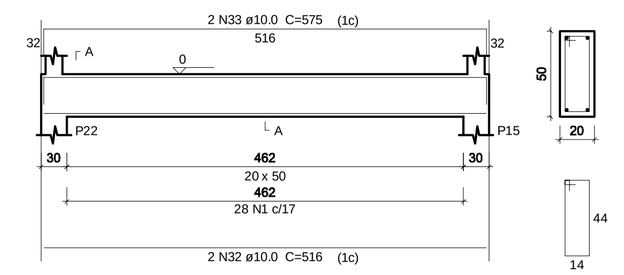
SEÇÃO A-A
ESC 1:25

V14
ESC 1:50



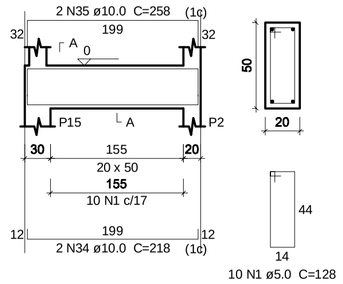
SEÇÃO A-A
ESC 1:25

V15
ESC 1:50



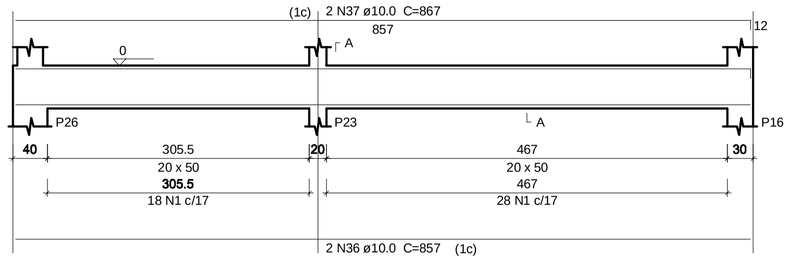
SEÇÃO A-A
ESC 1:25

V16
ESC 1:50



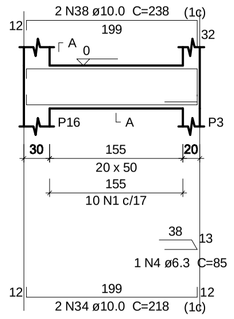
SEÇÃO A-A
ESC 1:25

V17
ESC 1:50

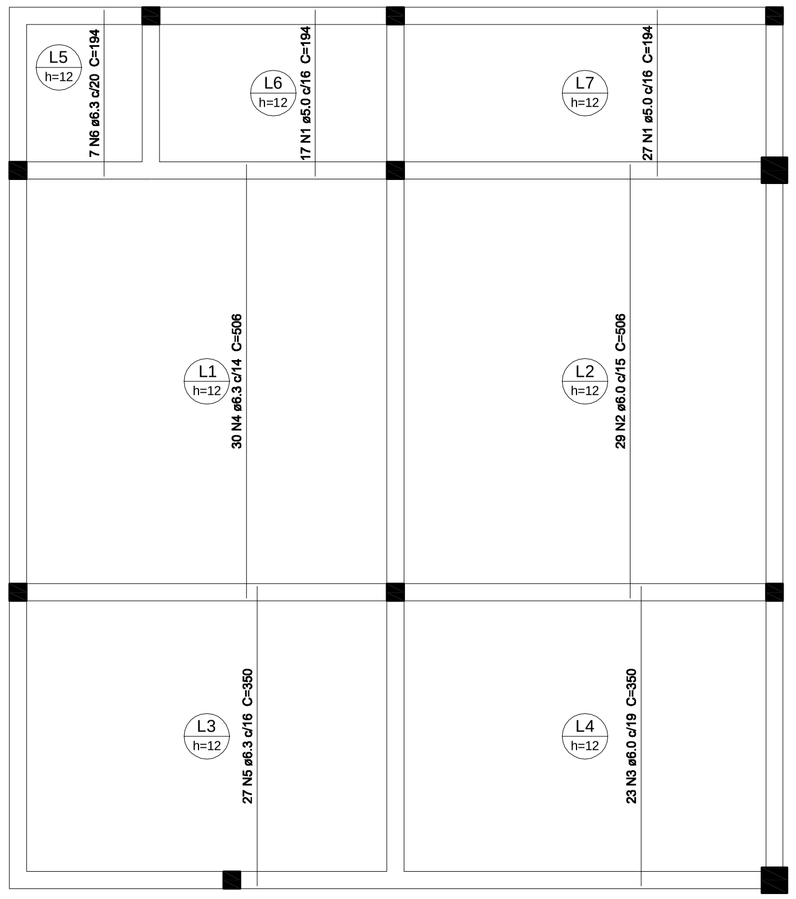


SEÇÃO A-A
ESC 1:25

V18
ESC 1:50



SEÇÃO A-A
ESC 1:25



ARMAÇÃO POSITIVA DAS LAJES DO PAVIMENTO LAJE TÉRREO 1 (EIXO Y)

ESCALA 1:50

Relação do aço

V1	V2	V4
V5	V6	V7
V8	V9	V10
V11	V12	V13
V14	V15	V16
V17	V18	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	389	128	49792
	2	5.0	45	108	4860
	3	5.0	2	258	516
CA50	4	6.3	3	85	255
	5	8.0	1	203	203
	6	8.0	2	417	834
	7	8.0	4	80	320
	8	8.0	2	433	866
	9	8.0	1	230	230
	10	8.0	2	399	798
	11	8.0	2	415	830
	12	10.0	2	177	354
	13	10.0	2	240	480
	14	10.0	2	741	1482
	15	10.0	2	800	1600
	16	10.0	2	459	918
	17	10.0	2	518	1036
	18	10.0	2	461	922
	19	10.0	2	520	1040
	20	10.0	2	914	1828
	21	10.0	2	513	1026
	22	10.0	2	197	394
	23	10.0	4	506	2024
	24	10.0	4	565	2260
	25	10.0	2	852	1704
	26	10.0	2	913	1826
	27	10.0	2	194	388
	28	10.0	4	265	1060
	29	10.0	2	204	408
	30	10.0	2	350	700
	31	10.0	2	409	818
	32	10.0	2	516	1032
	33	10.0	2	575	1150
	34	10.0	4	218	872
	35	10.0	2	258	516
	36	10.0	2	857	1714
	37	10.0	2	867	1734
	38	10.0	2	238	476

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	2.6	0.7
	8.0	40.9	17.7
	10.0	297.7	201.8
CA60	5.0	551.7	93.5
PESO TOTAL (kg)			
CA50	220.2		
CA60	93.5		

Volume de concreto (C-30) = 7.85 m³
Área de forma = 94.51 m²

Positivos Y

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	44	194	8536
	2	6.0	29	506	14674
	3	6.0	23	350	8050
CA50	4	6.3	30	506	15180
	5	6.3	27	350	9450
	6	6.3	7	194	1358

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	259.9	70
CA60	5.0	85.4	14.5
	6.0	227.3	55.5
PESO TOTAL (kg)			
CA50	70		
CA60	70		

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.:
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
REFORÇO PRÉDIO – CRAS
VIGAS CINTAMENTO V1–V2–V4–V5–V6–V7–V8–V9–V10–V11–V12–V13–V14–V15–V16–V17–V18

DATA: DEZEMBRO/2018
ESCALA: INDICADA
PRANCHA: 4.7
ARQUIVO: