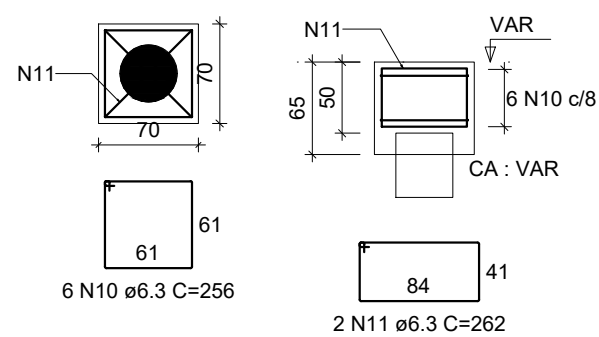
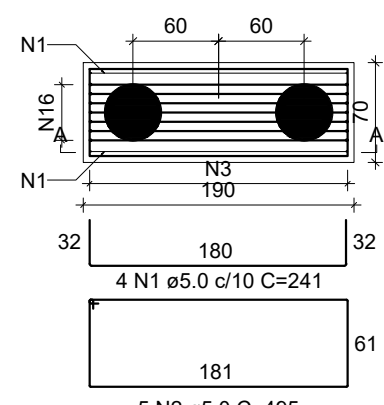


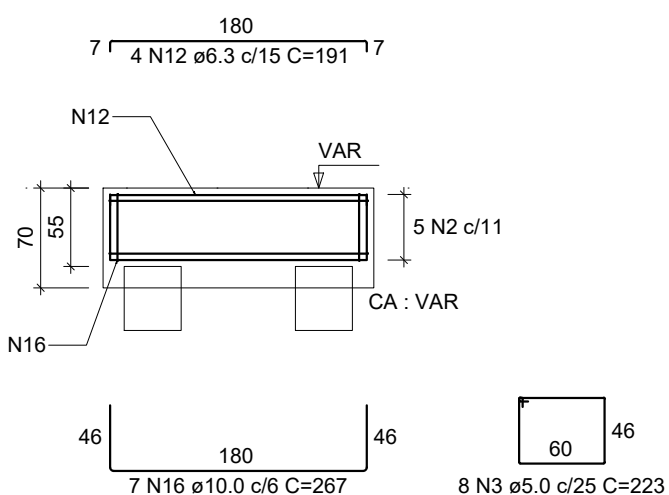
B1=B2=B3=B6=B7=B8=B10=B11=B14=B16=B17
=B18=B21=B24=B25=B28=B31=B32=B33=B34
=B35=B36
1xC40
PLANTA
ESC 1:50



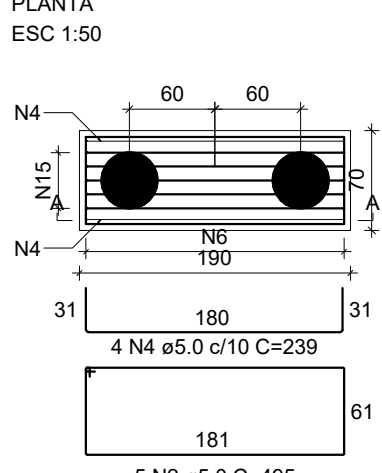
B9=B15=B22=B23=B29
2xC40
PLANTA
ESC 1:50



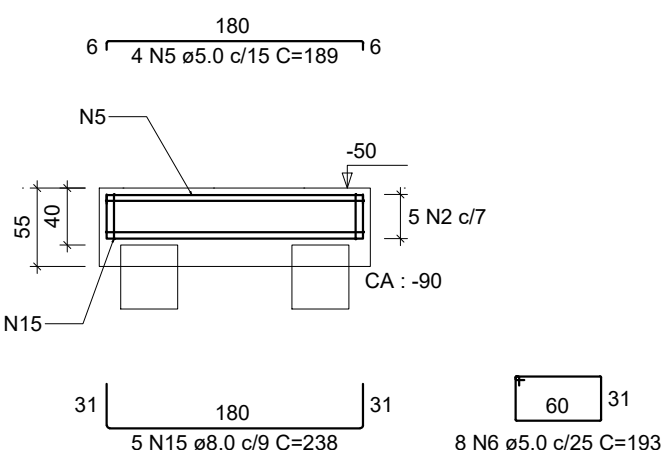
CORTE A-A
ESC 1:50



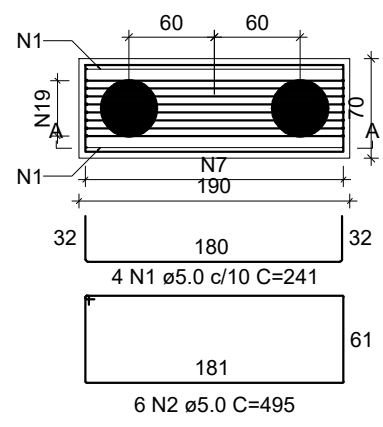
B30
2xC40
PLANTA
ESC 1:50



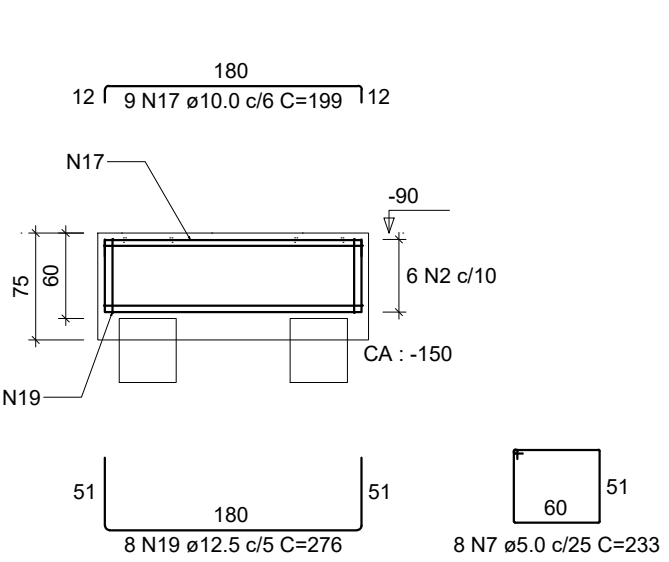
CORTE A-A
ESC 1:50



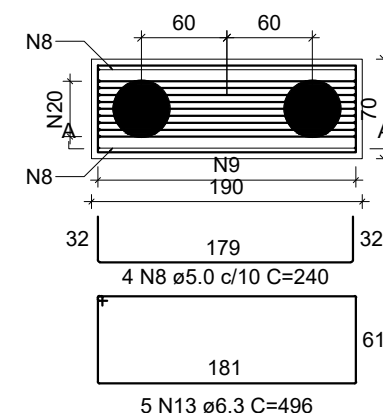
B4-5
2xC40
PLANTA
ESC 1:50



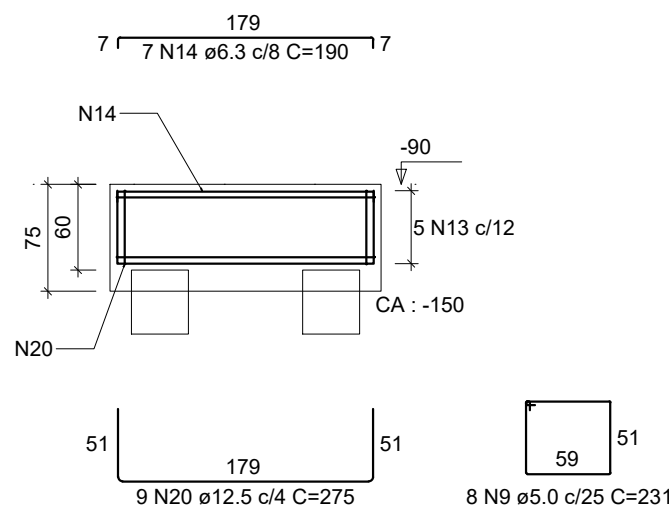
CORTE A-A
ESC 1:50



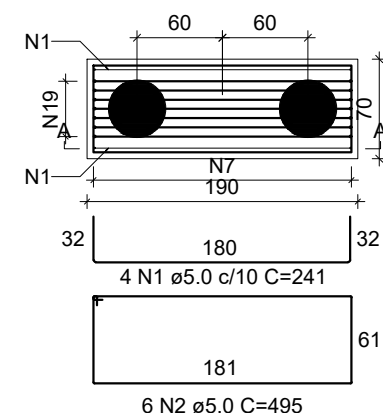
B12-13
2xC40
PLANTA
ESC 1:50



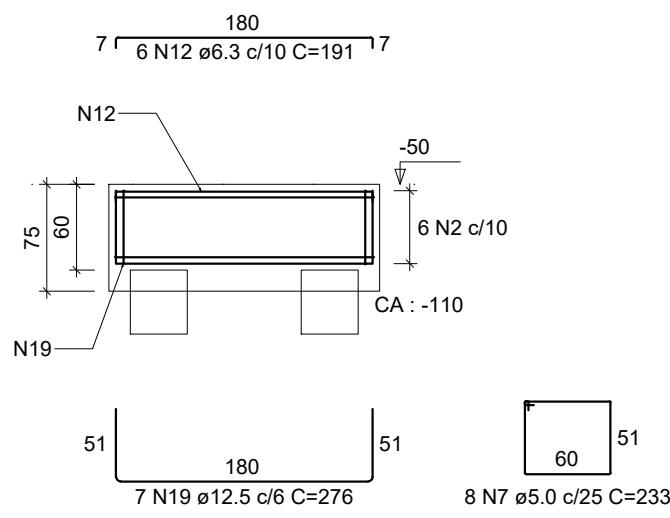
CORTE A-A
ESC 1:50



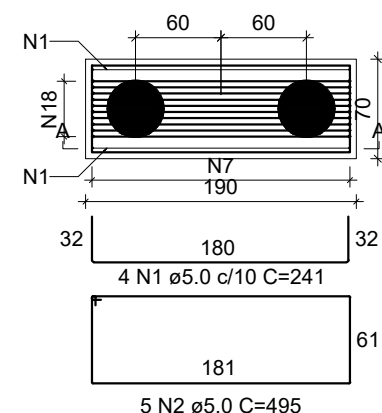
B19-20
2xC40
PLANTA
ESC 1:50



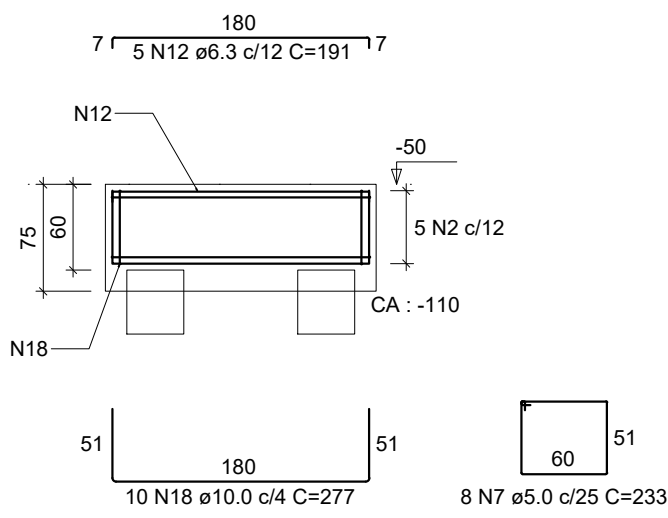
CORTE A-A
ESC 1:50



B26-27
2xC40
PLANTA
ESC 1:50



CORTE A-A
ESC 1:50



RELAÇÃO DO AÇO
22xB14
B4-5
B26-27

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	32	241	7712
	2	5.0	47	495	23265
	3	5.0	40	223	8920
	4	5.0	4	239	956
	5	5.0	4	189	756
	6	5.0	8	193	1544
	7	5.0	24	233	5592
	8	5.0	4	240	960
	9	5.0	8	231	1848
	10	6.3	132	256	33792
CA50	11	6.3	44	252	11528
	12	6.3	31	191	5921
	13	6.3	5	496	2480
	14	6.3	7	190	1330
	15	8.0	5	238	1190
	16	10.0	35	267	9345
	17	10.0	9	199	1791
	18	10.0	10	277	2770
	19	12.5	15	276	4140
	20	12.5	9	275	2475

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	550.5	148.2
	8.0	11.9	5.2
	10.0	133.1	94.3
CA60	12.5	66.2	70.1
	5.0	515.5	87.4
PESO TOTAL (kg)			
CA50	317.8		
CA60	87.4		
Volume de concreto (C-30) = 15.59 m³			
Área de forma = 76.70 m²			

OBRA:	ESCOLA DE EDUCAÇÃO AMB E TECNOLÓGICA	REGISTRO:	108
LOCAL:	TRÊS COROAS - RS	DATA:	29/09/21
PROPRIETÁRIO:	EVERTON RIGO AYRES	ESCALA:	INDICADA
PROJETO:	ENG. CIVIL EVERTON RIGO AYRES - CREA RS 161042	DESENHO:	AYRES ENG. EST.
EXECUÇÃO:		FRANCHA:	11
PROJETO:	ESTR DE CONCRETO ARM		
ESPECIFICAÇÃO:	DETALHAMENTO DOS BLOCOS DE FUNDAÇÃO		