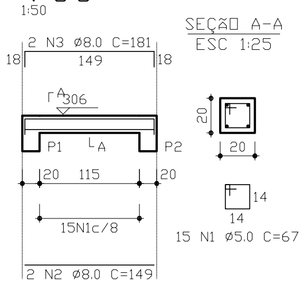
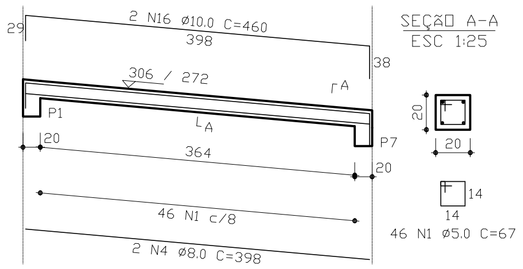
V33
1:50



SEÇÃO A-A
ESC 1:25

V34
1:50



SEÇÃO A-A
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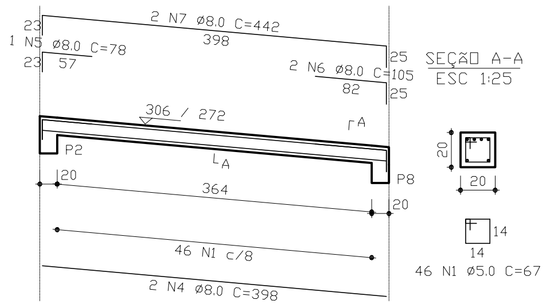
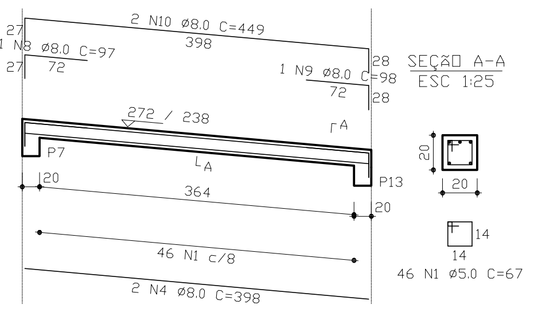
V35
1:50



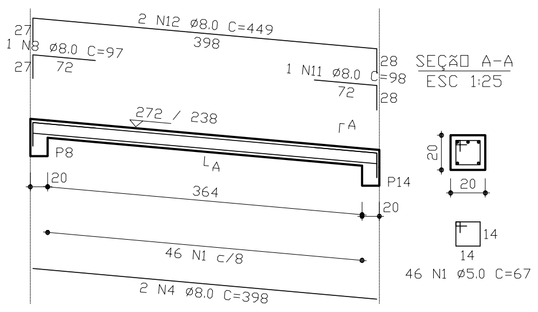
SEÇÃO A-A
ESC 1:25

V37
1:50



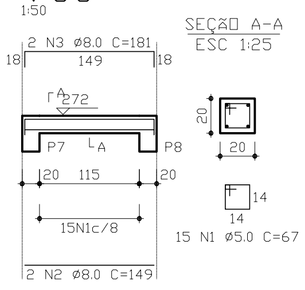
SEÇÃO A-A
ESC 1:25

V38
1:50



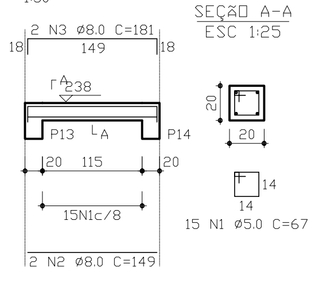
SEÇÃO A-A
ESC 1:25

V36
1:50



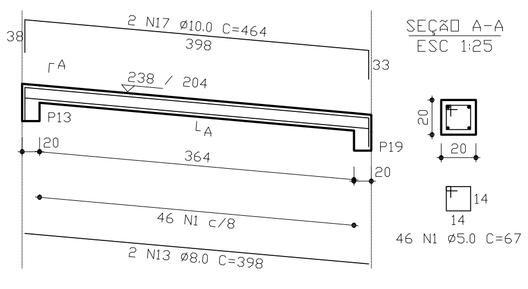
SEÇÃO A-A
ESC 1:25

V39
1:50



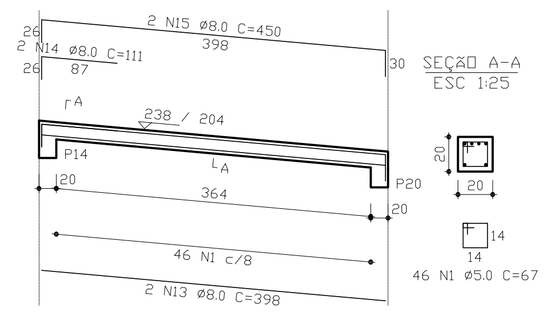
SEÇÃO A-A
ESC 1:25

V40
1:50



SEÇÃO A-A
ESC 1:25

V41
1:50



SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

V33 V34 V35
V36 V37 V38
V39 V40 V41

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	5.0	321	67	21507
50	2	8.0	6	149	894
	3	8.0	6	181	1086
	4	8.0	8	398	3184
	5	8.0	1	78	78
	6	8.0	2	105	210
	7	8.0	2	442	884
	8	8.0	2	97	194
	9	8.0	1	98	98
	10	8.0	2	449	898
	11	8.0	1	98	98
	12	8.0	2	449	898
	13	8.0	4	398	1592
	14	8.0	2	111	222
	15	8.0	2	450	900
	16	10.0	2	460	920
	17	10.0	2	464	928

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	8.0	112.4	48.8
	10.0	18.5	12.5
CA60	5.0	216.7	36.7
PESO TOTAL			
CA50	61.3		
CA60	36.7		

Vol. concreto (C-25) = 1.16 m³
área de forma total = 17.34 m²

Prefeitura Municipal de Jaguariaíva
Praça Getúlio Vargas 60 - Centro Cx.Postal.11 - Fone (43) 3535-1233 - Fax (43) 3535-2130
Jaguariaíva -PR - CEP: 84.200-000 - CNPJ 76.910.900/0001-38
Secretaria Municipal de Infraestrutura e Habitação

GESTÃO 2017-2020
JOSÉ SLOBODA
PREFEITO MUNICIPAL

RESPONSÁVEL TÉCNICO:
ENGº ANA CLAUDIA KRUL
CREA/PR 69.540-D

TÍTULO:
REPAROS NA ESCOLA MUN. CARLOS CARNEIRO SAMPAIO
JD SÃO ROQUE
PROJETO ESTRUTURAL - RAMPA 01

DATA:	DESENHO:	ESCALA:	FOLHA:
REV. FEV 2017	ANA CLAUDIA	Indicadas	06/06