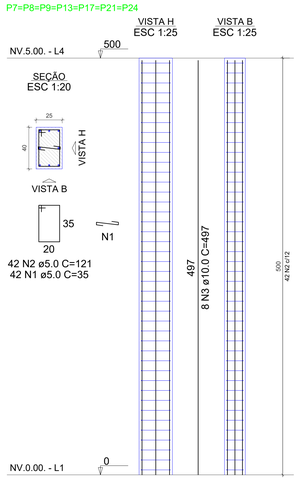
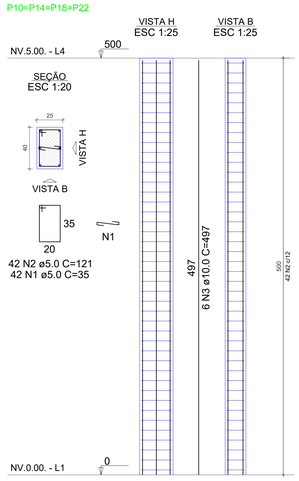
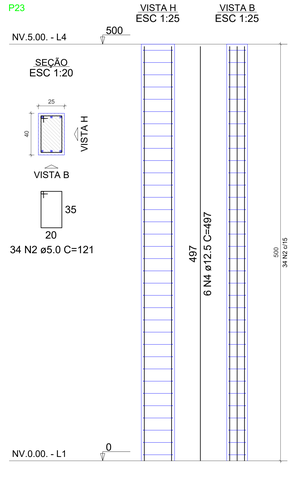
P7=P8=P9=P13=P17=P21=P24



P10=P14=P18=P22



P23



RELAÇÃO DO AÇO

7xP7 4xP10 P23

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	462	35	16170
	2	5.0	496	121	60016
CA50	3	10.0	80	497	39760
	4	12.5	6	497	2982

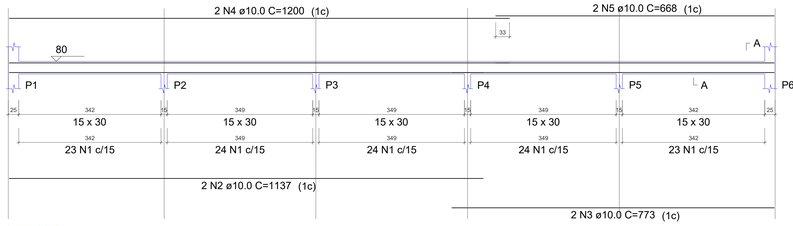
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	397.6	269.6
	12.5	29.8	31.6
CA60	5.0	761.9	129.2

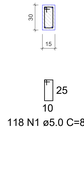
PESO TOTAL (kg)	
CA50	301.2
CA60	129.2

Volume de concreto (C-25) = 6.00 m³
Área de forma = 78.00 m²

VNV1.1
ESC 1:50



SEÇÃO A-A
ESC 1:25



RELAÇÃO DO AÇO

VNV1.1 VNV1.2

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	236	81	19116
CA50	2	10.0	4	1137	4548
	3	10.0	4	773	3092
	4	10.0	4	1200	4800
	5	10.0	4	668	2672

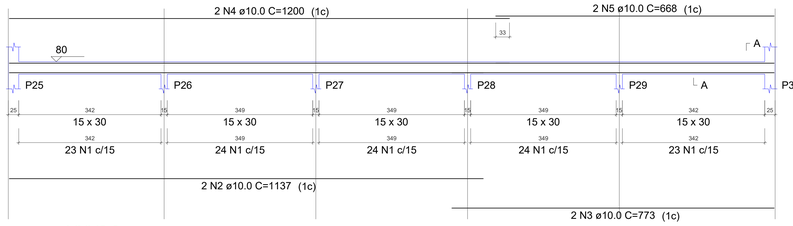
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	151.1	102.5
CA60	5.0	191.2	32.4

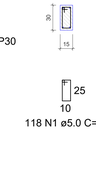
PESO TOTAL (kg)	
CA50	102.5
CA60	32.4

Volume de concreto (C-25) = 1.66 m³
Área de forma = 27.60 m²

VNV1.2
ESC 1:50



SEÇÃO A-A
ESC 1:25



RELAÇÃO DO AÇO

VNV2.1 VNV2.2 VNV2.3
VNV2.4 VNV2.5 VNV2.6
VNV2.7 VNV2.8 VNV2.9
VNV2.10 VNV2.11

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	152	81	12312
CA50	2	5.0	270	101	27270
	3	10.0	12	113	1356
	4	10.0	12	128	1536
	5	10.0	4	115	460
	6	10.0	4	119	476
	7	10.0	2	1091	2182
	8	10.0	2	153	306
	9	10.0	2	633	1266
	10	10.0	2	1198	2396
	11	10.0	2	653	1306
	12	10.0	4	1191	4764
	13	10.0	4	1086	4344
	14	10.0	4	164	656
	15	10.0	4	613	2452
	16	10.0	8	1200	9600
	17	10.0	4	598	2392

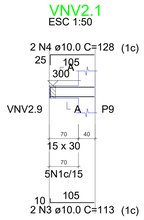
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	354.9	240.7
CA60	5.0	395.8	67.1

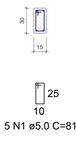
PESO TOTAL (kg)	
CA50	240.7
CA60	67.1

Volume de concreto (C-25) = 4.68 m³
Área de forma = 75.14 m²

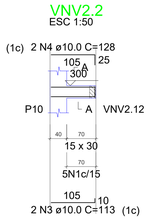
VNV2.1
ESC 1:50



SEÇÃO A-A
ESC 1:25

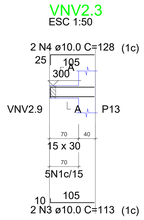


VNV2.2
ESC 1:50

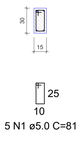


SEÇÃO A-A
ESC 1:25

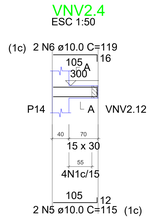
VNV2.3
ESC 1:50



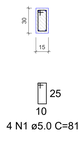
SEÇÃO A-A
ESC 1:25



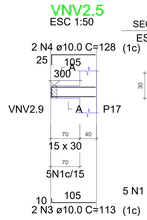
VNV2.4
ESC 1:50



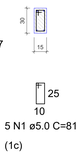
SEÇÃO A-A
ESC 1:25



VNV2.5
ESC 1:50

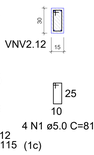


SEÇÃO A-A
ESC 1:25

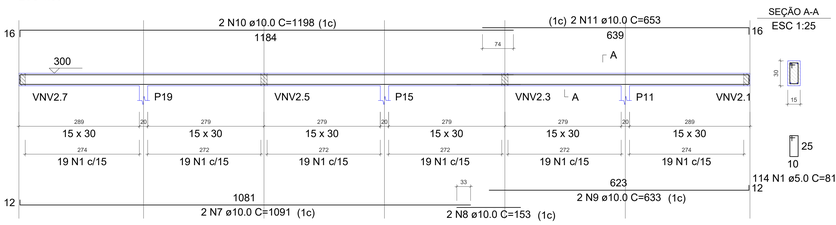


VNV2.6
ESC 1:50

SEÇÃO A-A
ESC 1:25



VNV2.9
ESC 1:50



SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

VNV2.12

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	114	81	9234
CA50	2	10.0	2	1091	2182
	3	10.0	2	153	306
	4	10.0	2	633	1266
	5	10.0	2	1198	2396
	6	10.0	2	612	1224

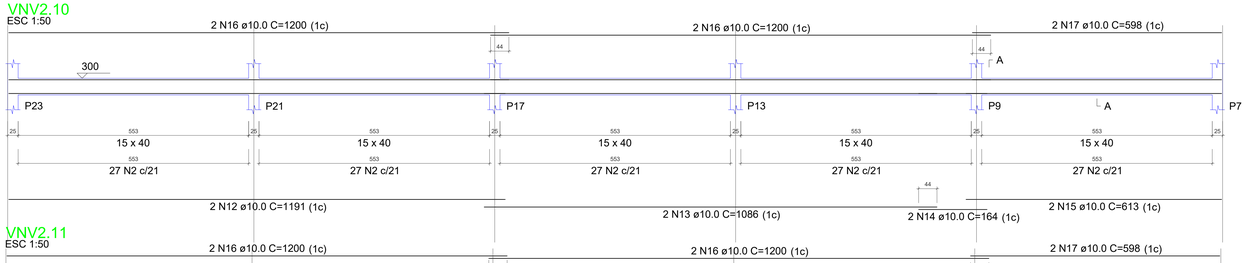
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	73.7	50
CA60	5.0	92.3	15.7

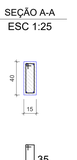
PESO TOTAL (kg)	
CA50	50
CA60	15.7

Volume de concreto (C-25) = 0.79 m³
Área de forma = 13.16 m²

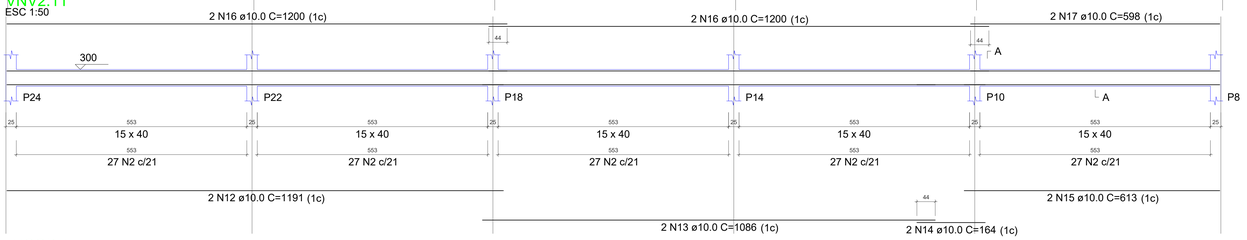
VNV2.10
ESC 1:50



SEÇÃO A-A
ESC 1:25

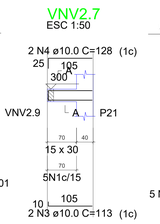


VNV2.11
ESC 1:50

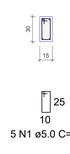


SEÇÃO A-A
ESC 1:25

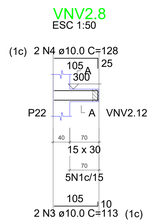
VNV2.7
ESC 1:50



SEÇÃO A-A
ESC 1:25

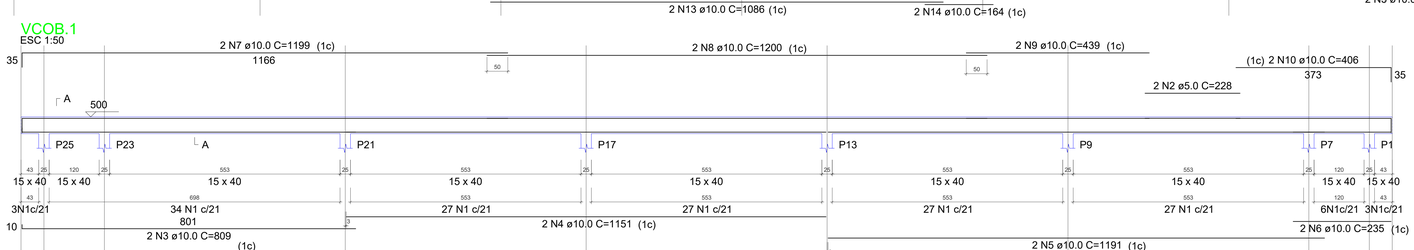


VNV2.8
ESC 1:50

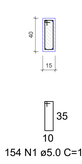


SEÇÃO A-A
ESC 1:25

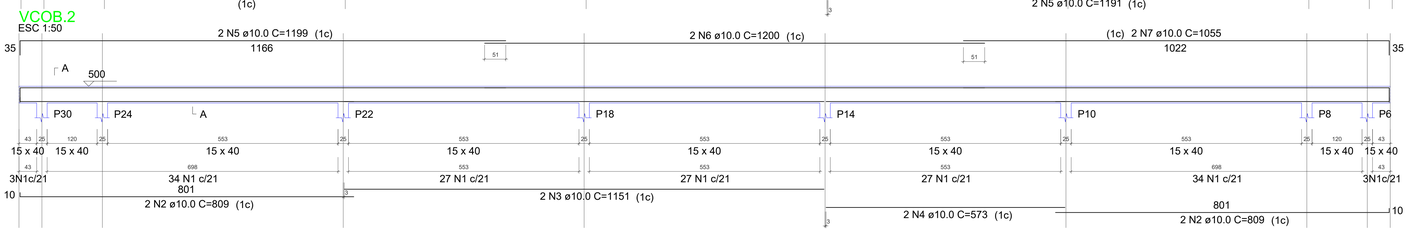
VCOB.1
ESC 1:50



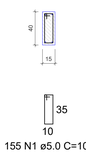
SEÇÃO A-A
ESC 1:25



VCOB.2
ESC 1:50



SEÇÃO A-A
ESC 1:25



RELAÇÃO DO AÇO

VCOB.1

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	154	101	15554
CA50	2	5.0	2	228	456
	3	10.0	2	809	1618
	4	10.0	2	1151	2302
	5	10.0	2	1191	2382
	6	10.0	2	235	470
	7	10.0	2	1199	2398
	8	10.0	2	1200	2400
	9	10.0	2	439	878
	10	10.0	2	406	812

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	132.6	89.9
CA60	5.0	160.1	27.1

PESO TOTAL (kg)	
CA50	89.9
CA60	27.1

Volume de concreto (C-25) = 1.97 m³
Área de forma = 31.26 m²

RELAÇÃO DO AÇO

VCOB.2

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	155	101	15655
CA50	2	10.0	4	809	3236
	3	10.0	2	1151	2302
	4	10.0	2	573	1146
	5	10.0	2	1199	2398
	6	10.0	2	1200	2400
	7	10.0	2	1055	2110

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	135.9	92.2
CA60	5.0	156.6	26.5

PESO TOTAL (kg)	
CA50	92.2
CA60	26.5

Volume de concreto (C-25) = 1.97 m³
Área de forma = 31.26 m²

ESTADO DE GOIÁS
SECRETARIA DE ESTADO DA EDUCAÇÃO
SUPERINTENDÊNCIA DE INFRAESTRUTURA
GERÊNCIA DE PROJETOS E INFRAESTRUTURA

GERÊNCIA DE PROJETOS E INFRAESTRUTURA
APROVADO ___/___/___
TÉCNICO RESPONSÁVEL PELA APROVAÇÃO

COLÉGIOS ESTADUAIS

QUADRA EM ARCO SEDUC 2012
MODELO 03- DIMENSÕES- 20.80X33.05

ENDEREÇO
DIVERSOS

ÁREA DO TERRENO	ÁREA PERMEAB.	ÁREA EXISTENTE	ÁREA DEMOLIR	ÁREA A CONSTRUIR	ÁREA TOTAL CONSTRUÇÃO
———	———	———	———	614,83 M²	VER PROJ ARQ.

AUTOR: ENGENHEIRO CIVIL PAULO RORATO DORNELLA CREA 101.45.11.780 D-GO.

RT DA OBRA:
Assinado de forma digital por PAULO RORATO DORNELLA:01014578011
Dados: 2021.06.24 17:08:17 -03'00'

PROPRIETÁRIO: SECRETARIA DE ESTADO DA EDUCAÇÃO CNPJ Nº 01.409.730.0001-20
PREPOSTO: GUSTAVO DE MORAIS VEIGA JARDIM CPF: 026.094.351-77

TIPO DE PROJETO
ESTRUTURAL

ASSUNTO:
DETALHAMENTO DOS PILARES II, DETALHAMENTO DAS VIGAS NÍVEL 1, NÍVEL 2 E NÍVEL COBERTURA, QUADROS, DETALHES E LISTAS.

DATA:	ESCALA:	REVISÃO:	Nº RRT/ART:
JUNHO/2021	INDICADA	000	1020210104479

REV.	DATA	DESCRIÇÃO	VISTO

FOLHA: 5/5