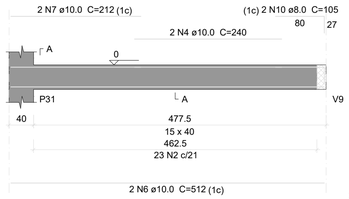
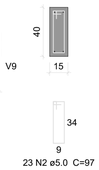
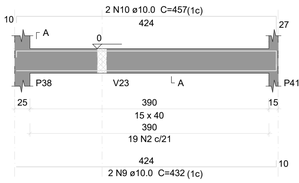
V15
ESC 1:50



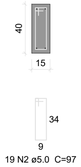
SEÇÃO A-A
ESC 1:25



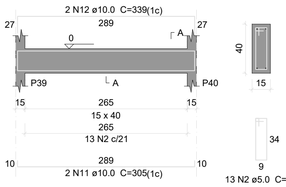
V19
ESC 1:50



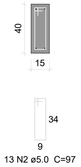
SEÇÃO A-A
ESC 1:25



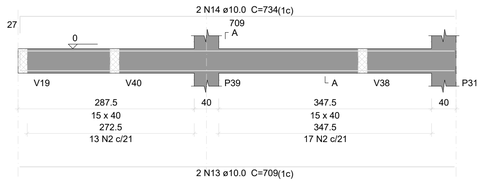
V22
ESC 1:50



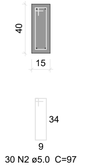
SEÇÃO A-A
ESC 1:25



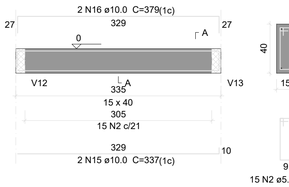
V23
ESC 1:50



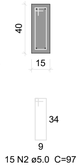
SEÇÃO A-A
ESC 1:25



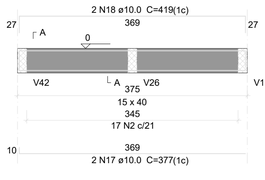
V24
ESC 1:50



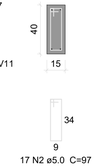
SEÇÃO A-A
ESC 1:25



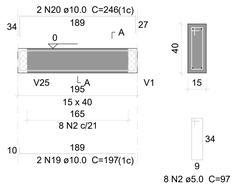
V25
ESC 1:50



SEÇÃO A-A
ESC 1:25

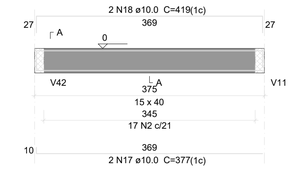


V26
ESC 1:50

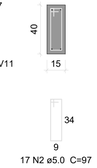


SEÇÃO A-A
ESC 1:25

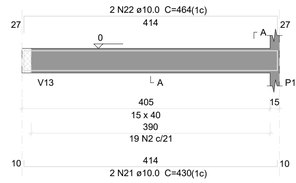
V27
ESC 1:50



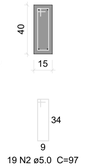
SEÇÃO A-A
ESC 1:25



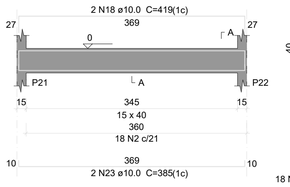
V28
ESC 1:50



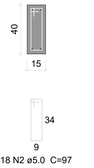
SEÇÃO A-A
ESC 1:25



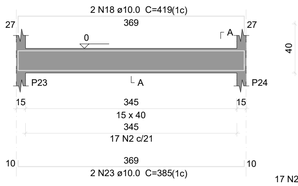
V29
ESC 1:50



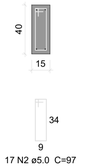
SEÇÃO A-A
ESC 1:25



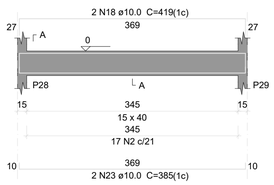
V30
ESC 1:50



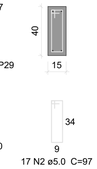
SEÇÃO A-A
ESC 1:25



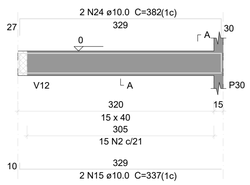
V31
ESC 1:50



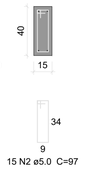
SEÇÃO A-A
ESC 1:25



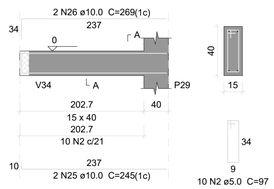
V32
ESC 1:50



SEÇÃO A-A
ESC 1:25

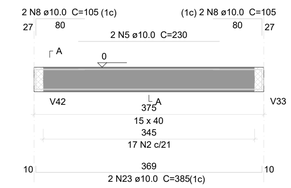


V33
ESC 1:50

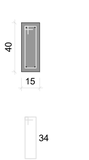


SEÇÃO A-A
ESC 1:25

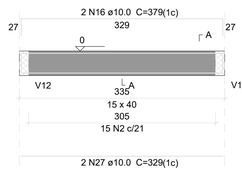
V34
ESC 1:50



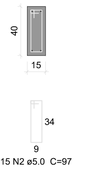
SEÇÃO A-A
ESC 1:25



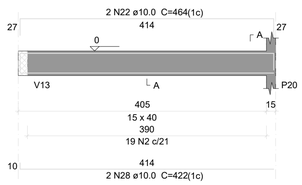
V35
ESC 1:50



SEÇÃO A-A
ESC 1:25

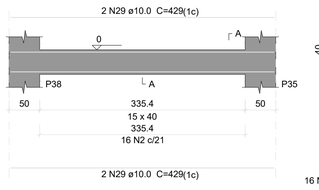


V36
ESC 1:50

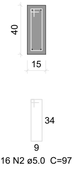


SEÇÃO A-A
ESC 1:25

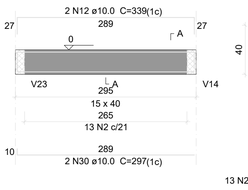
V37
ESC 1:50



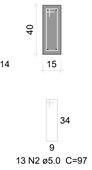
SEÇÃO A-A
ESC 1:25



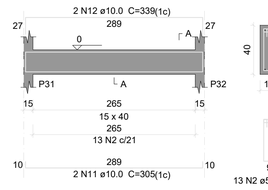
V38
ESC 1:50



SEÇÃO A-A
ESC 1:25

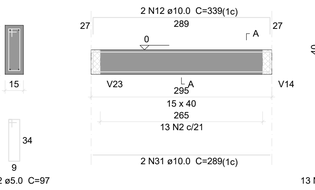


V39
ESC 1:50

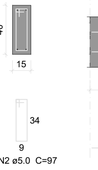


SEÇÃO A-A
ESC 1:25

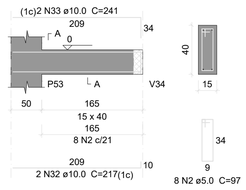
V40
ESC 1:50



SEÇÃO A-A
ESC 1:25

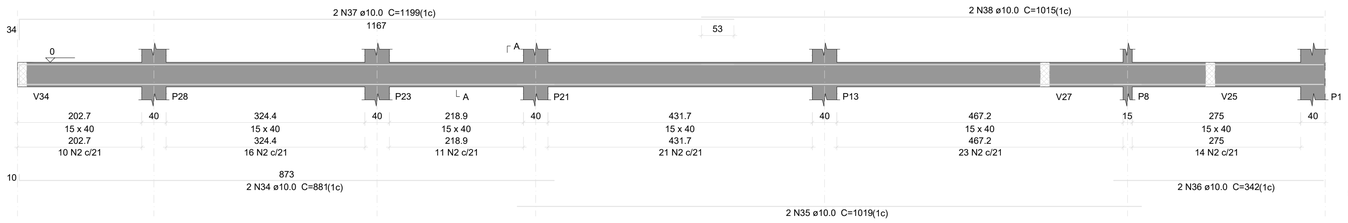


V41
ESC 1:50



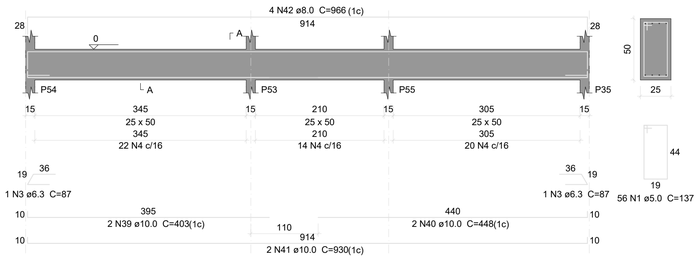
SEÇÃO A-A
ESC 1:25

V42
ESC 1:50



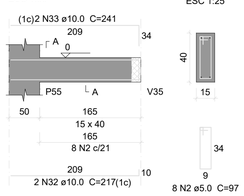
SEÇÃO A-A
ESC 1:25

V43
ESC 1:50



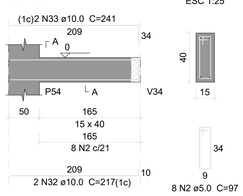
SEÇÃO A-A
ESC 1:25

V44
ESC 1:50



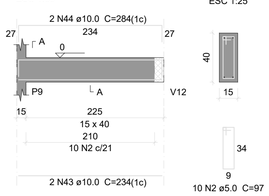
SEÇÃO A-A
ESC 1:25

V45
ESC 1:50



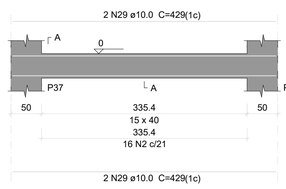
SEÇÃO A-A
ESC 1:25

V46
ESC 1:50



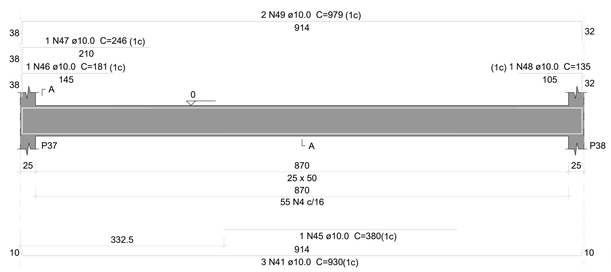
SEÇÃO A-A
ESC 1:25

V47
ESC 1:50

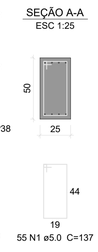


SEÇÃO A-A
ESC 1:25

V48
ESC 1:50



SEÇÃO A-A
ESC 1:25



Relação do aço

V15	V19	V22
V23	V24	V25
V26	V27	V28
V29	V30	V31
V32	V33	V34
V35	V36	V37
V38	V39	V40
V41	V42	V43
V44	V45	V46
V47	V48	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	111	137	15207
	2	5.0	489	97	47433
CA50	3	6.3	2	87	174
	4	10.0	2	240	480
	5	10.0	2	230	460
	6	10.0	2	512	1024
	7	10.0	2	212	424
	8	10.0	6	105	630
	9	10.0	2	432	864
	10	10.0	2	457	914
	11	10.0	4	305	1220
	12	10.0	8	339	2712
	13	10.0	2	709	1418
	14	10.0	2	734	1468
	15	10.0	4	337	1348
	16	10.0	4	379	1516
	17	10.0	4	377	1508
	18	10.0	10	419	4190
	19	10.0	2	197	394
	20	10.0	2	246	492
	21	10.0	2	430	860
	22	10.0	4	464	1856
	23	10.0	8	385	3080
	24	10.0	2	382	764
	25	10.0	2	245	490
	26	10.0	2	269	538
	27	10.0	2	329	658
	28	10.0	2	422	844
	29	10.0	8	429	3432
	30	10.0	2	297	594
	31	10.0	2	289	578
	32	10.0	6	217	1302
	33	10.0	6	241	1446
	34	10.0	2	881	1762
	35	10.0	2	1019	2038
	36	10.0	2	342	684
	37	10.0	2	1199	2398
	38	10.0	2	1015	2030
	39	10.0	2	403	806
	40	10.0	2	448	896
	41	10.0	5	930	4650
	42	10.0	4	966	3864
	43	10.0	2	234	468
	44	10.0	2	284	568
	45	10.0	1	380	380
	46	10.0	1	181	181
	47	10.0	1	246	246
	48	10.0	1	135	135
	49	10.0	2	979	1958

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	1.8	0.5
	10.0	605.7	411.1
CA60	5.0	635.8	107.8

PESO TOTAL (kg)	
CA50	411.6
CA60	107.8

Volume de concreto (C-25) = 8.21 m³
Área de forma = 117.39 m²

LAZARO THOME DA SILVA NETO
ENG. CIVIL
CREA/SP: 5070668785

PREFEITURA MUNICIPAL DE DIVISA NOVA
CNPJ:18.243.279/0001-08

CONCRETO
fck = 25 MPa
ECS = Ver na planta

OBRA Nº: 0001

CLIENTE: PREFEITURA MUNICIPAL DE DIVISA NOVA - MG

FOLHA Nº: 002

OBRA: CONSTRUÇÃO DO PRÉDIO DO AMULATÓRIO E LABORATÓRIO

ARMAÇÃO DAS VIGAS FUNDAÇÃO

REV. Nº: 01

DATA: 20/05/2025 | ESCALA: 1:50 | ARQUIVO: EST-02-FUN-VIG | DESENHO: | RESP. TÉCNICO: ENG.LAZARO NETO CREA/SP: 5070668785