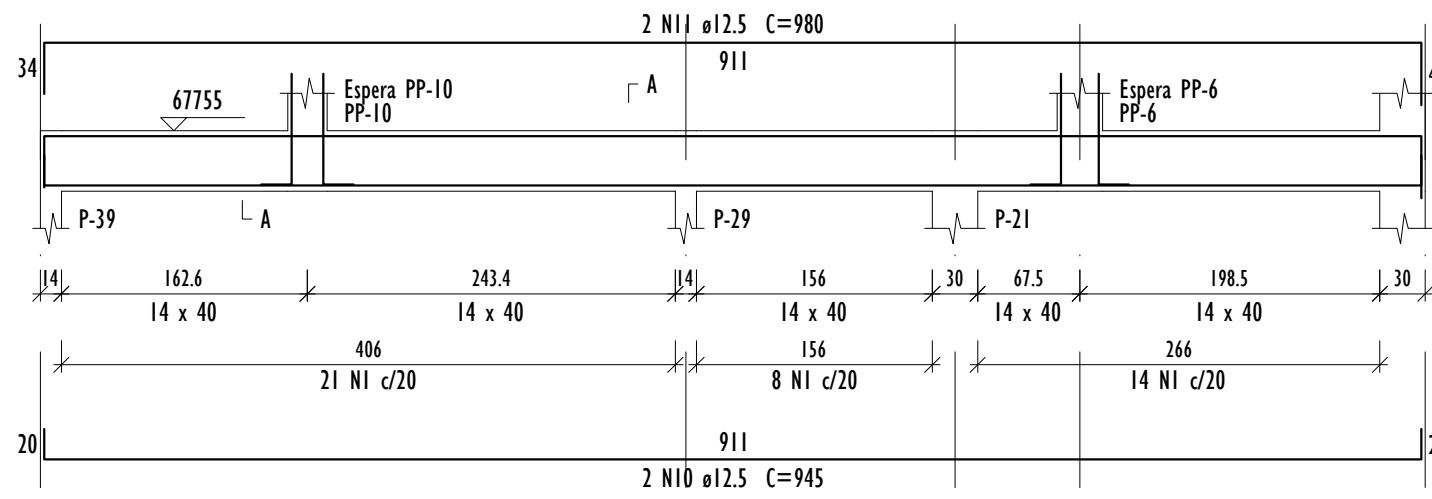


PROJETO ESTRUTURAL - UBS VALADARES

V-335 (14 x 40)

ESC. 1:50

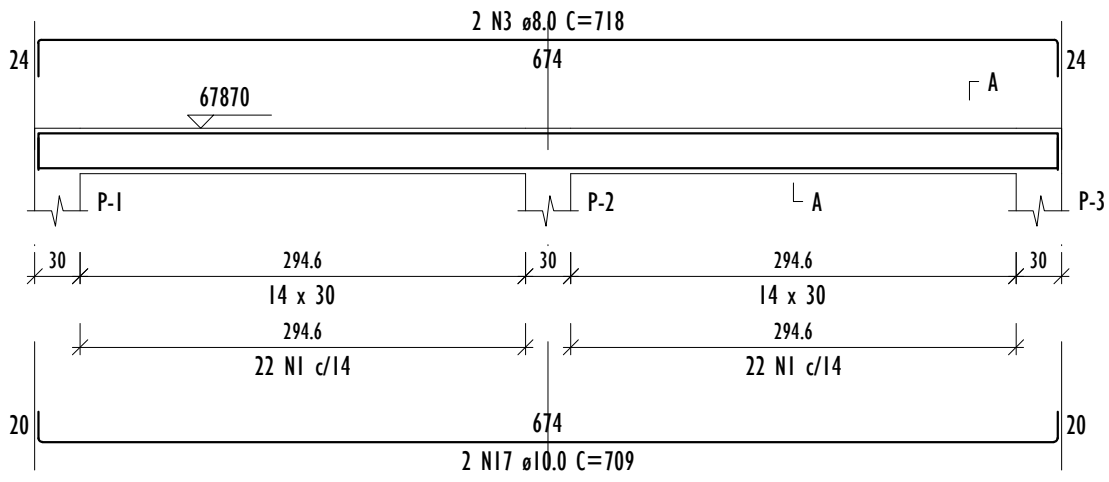


DETALHAMENTO DE VIGAS (NÍVEL 677.55)

ESCALA INDICADA

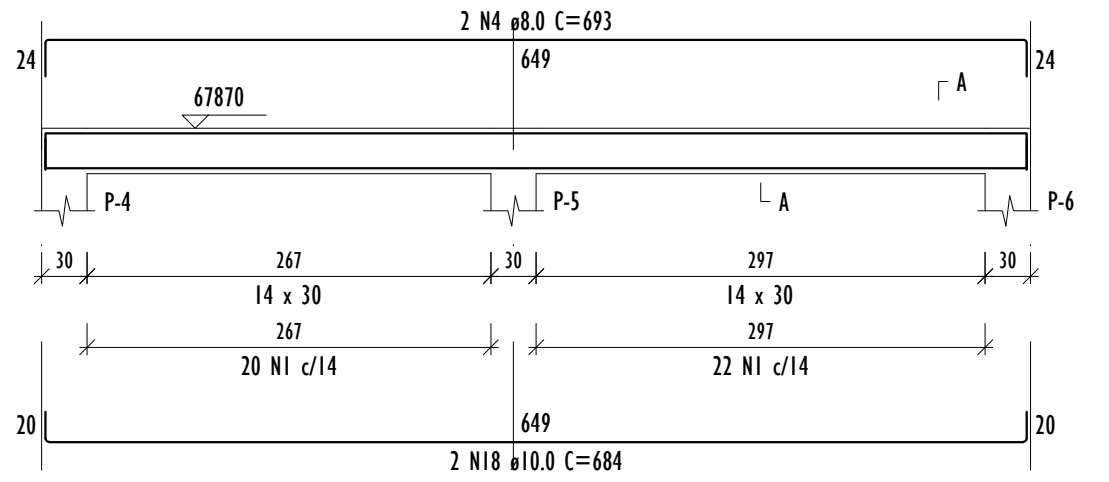
V-401 (14 x 30)

ESC. 1:50



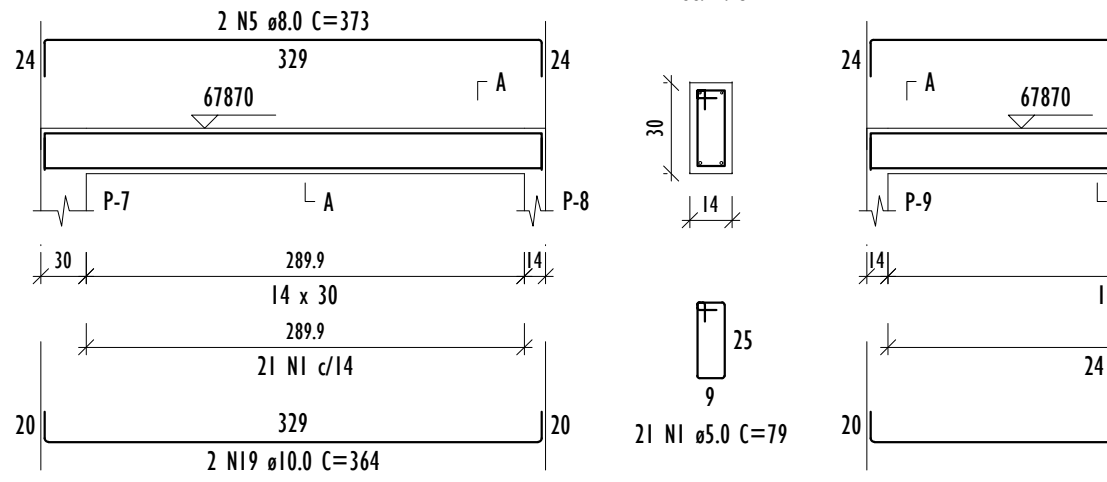
V-402 (14 x 30)

ESC. 1:50



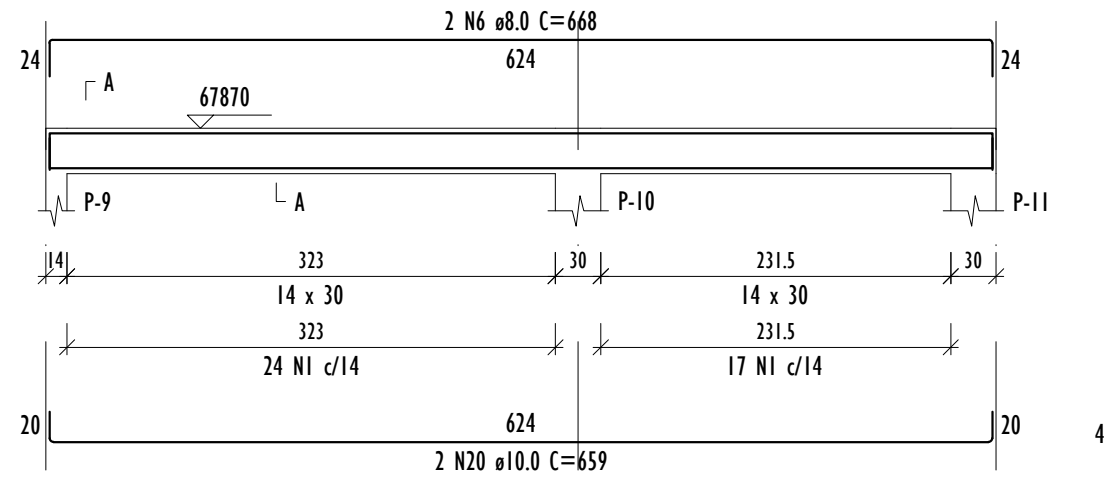
V-403 (14 x 30)

ESC. 1:50



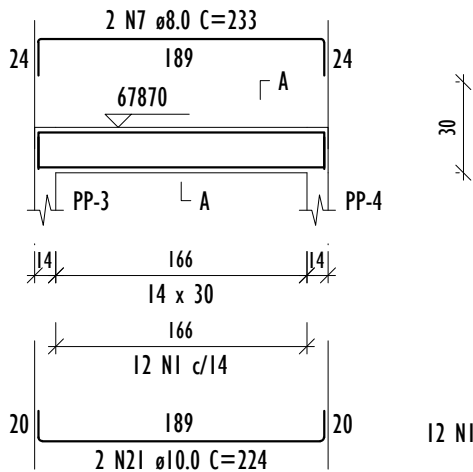
V-404 (14 x 30)

ESC. 1:50



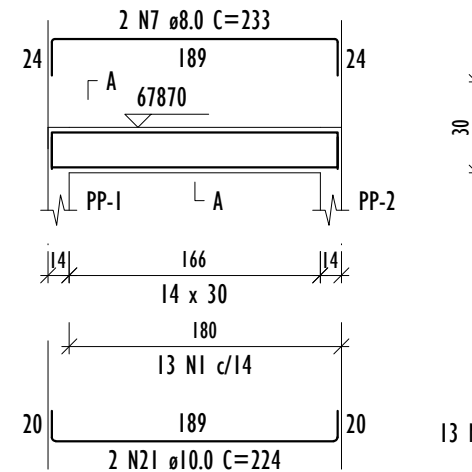
V-405 (14 x 30)

ESC. 1:50



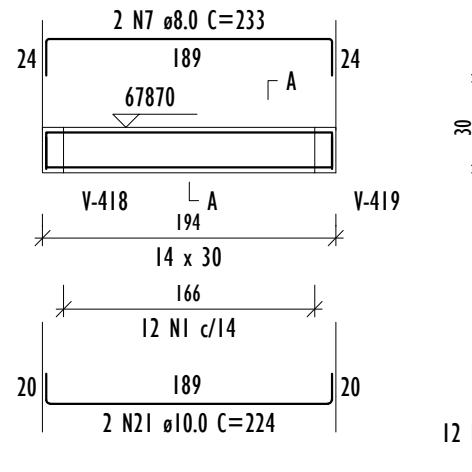
V-406 (14 x 30)

ESC. 1:50



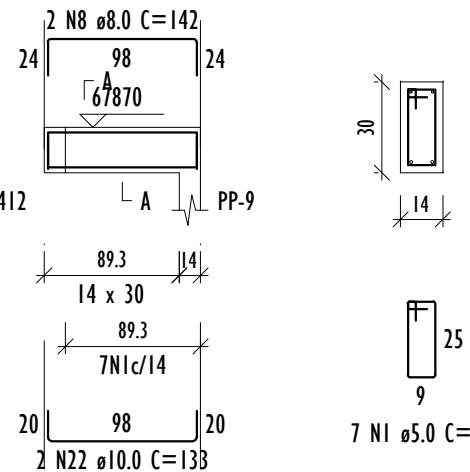
V-407 (14 x 30)

ESC. 1:50



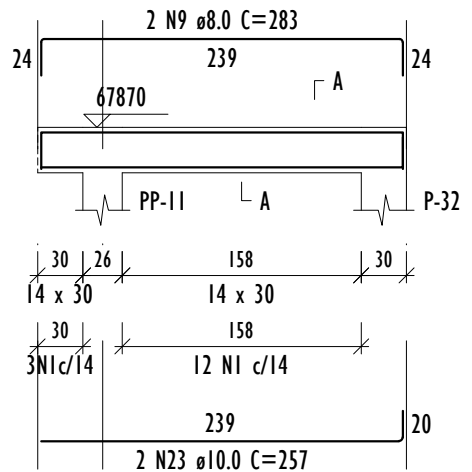
V-408 (14 x 30)

ESC. 1:50



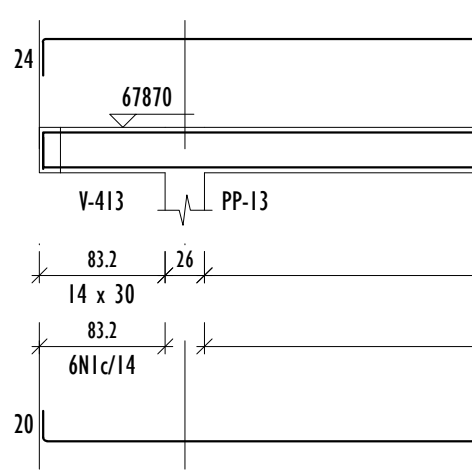
V-409 (14 x 30)

ESC. 1:50



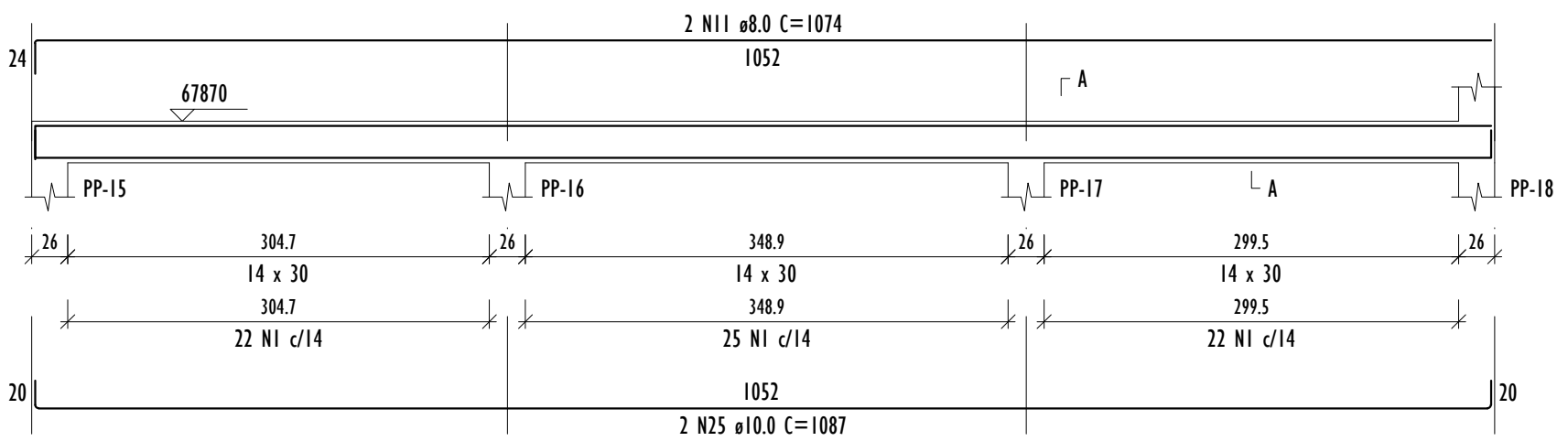
V-410 (14 x 30)

ESC. 1:50



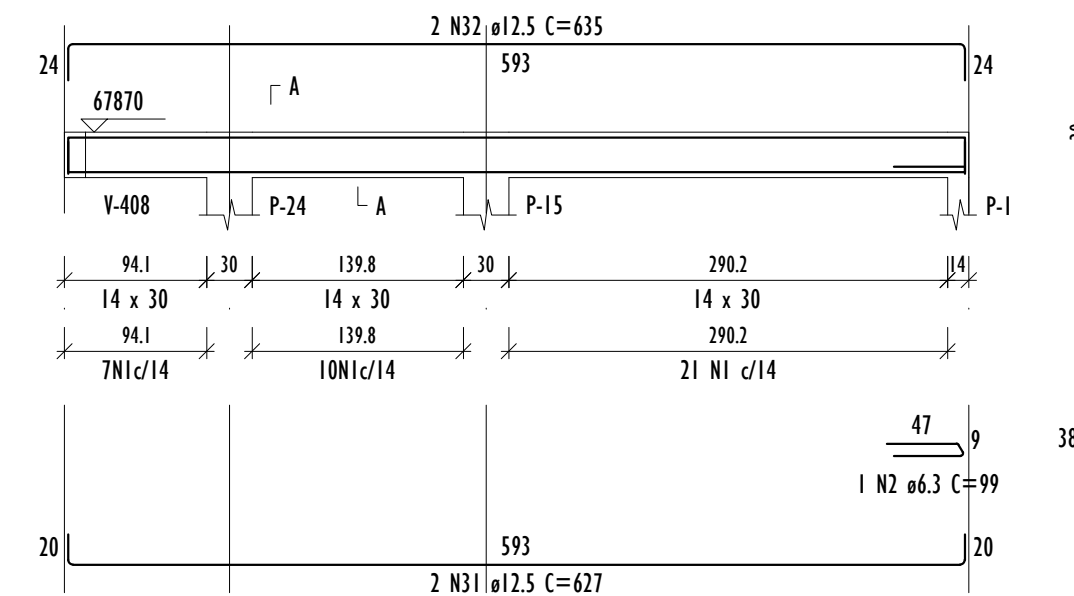
V-411 (14 x 30)

ESC. 1:50



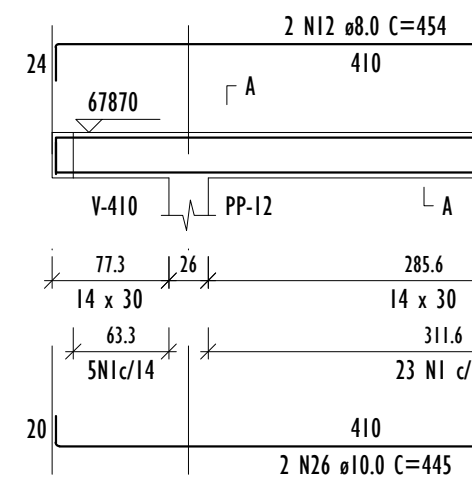
V-412 (14 x 30)

ESC. 1:50



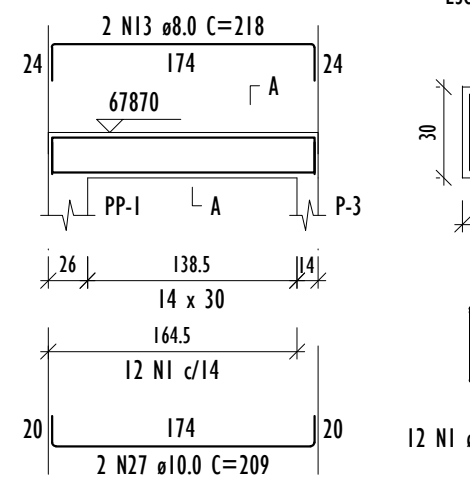
V-413 (14 x 30)

ESC. 1:50



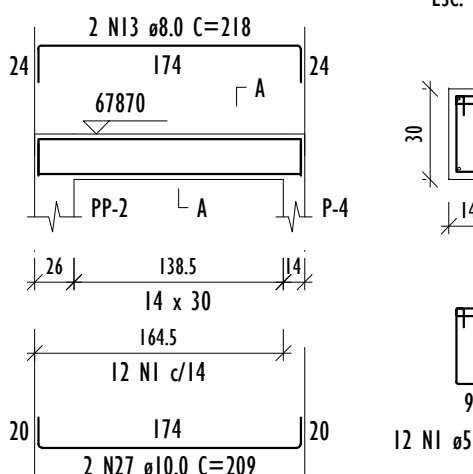
V-414 (14 x 30)

ESC. 1:50



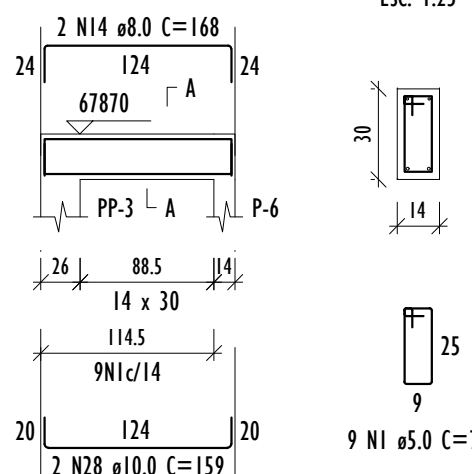
V-415 (14 x 30)

ESC. 1:50



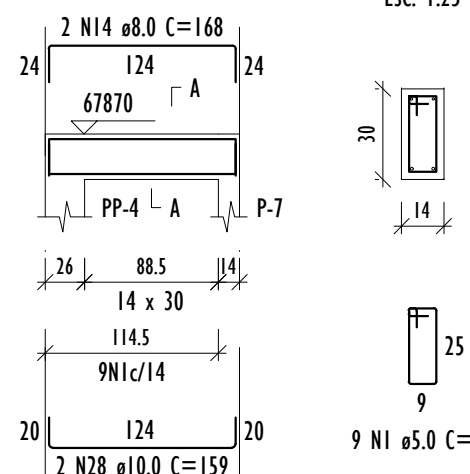
V-416 (14 x 30)

ESC. 1:50



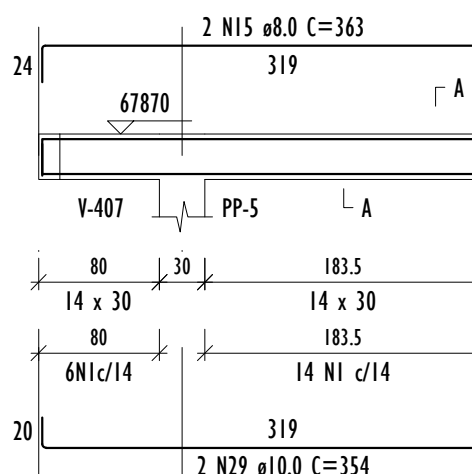
V-417 (14 x 30)

ESC. 1:50



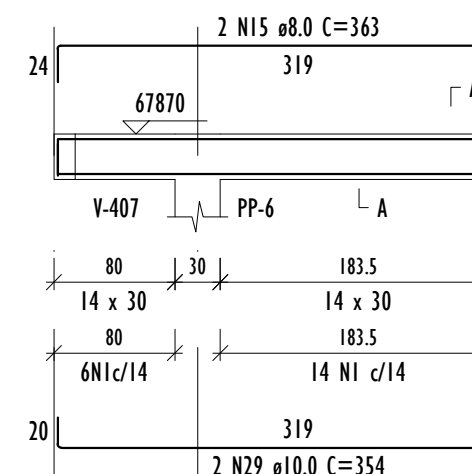
V-418 (14 x 30)

ESC. 1:50



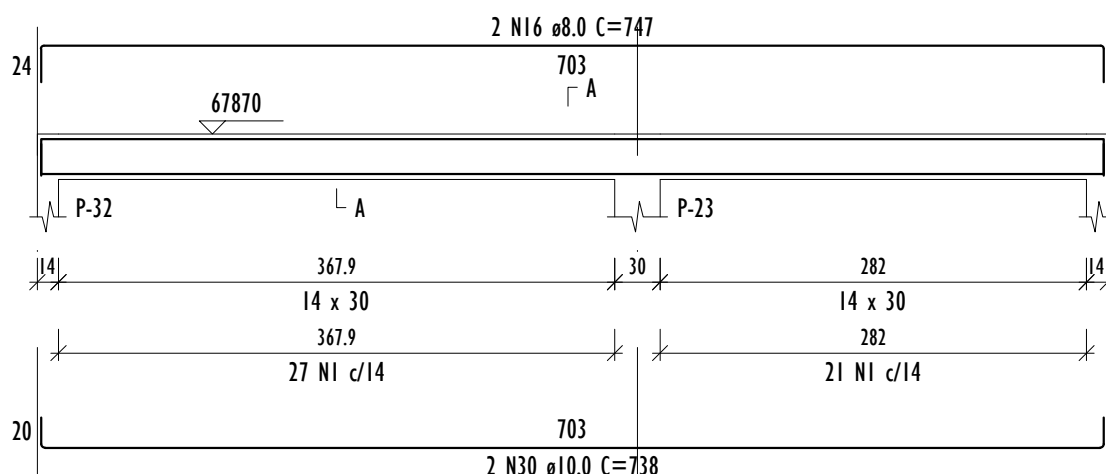
V-419 (14 x 30)

ESC. 1:50



V-420 (14 x 30)

ESC. 1:50

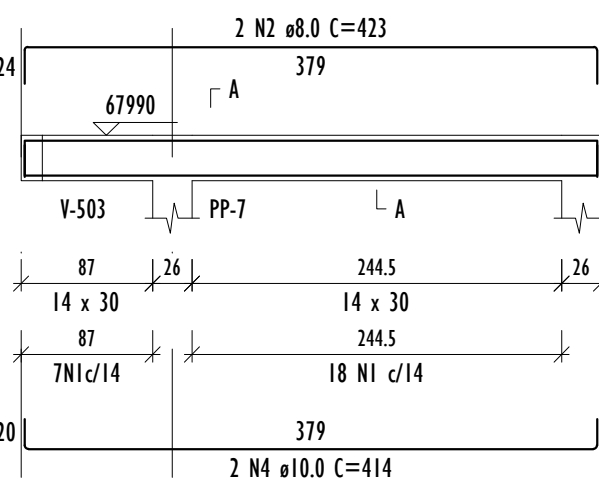


DETALHAMENTO DE VIGAS (NÍVEL 678.70)

ESCALA INDICADA

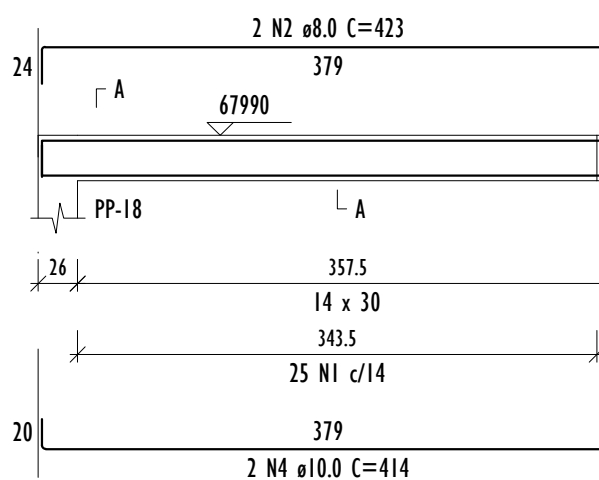
V-501 (14 x 30)

ESC. 1:50



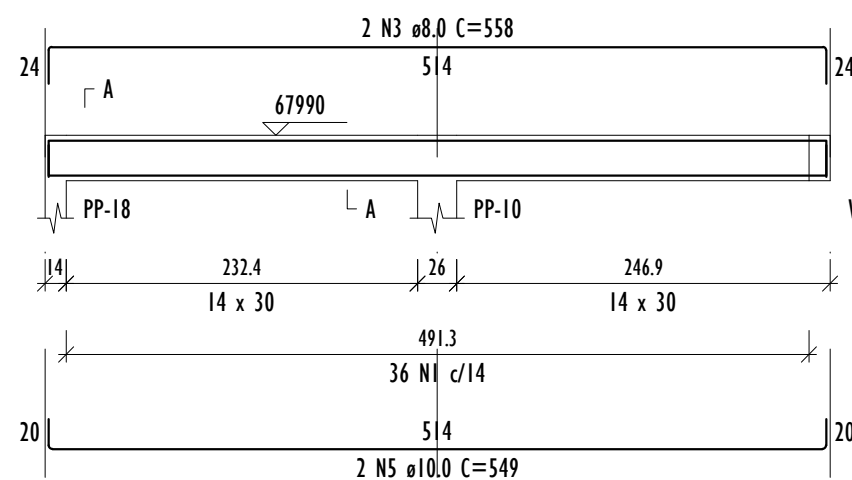
V-502 (14 x 30)

ESC. 1:50



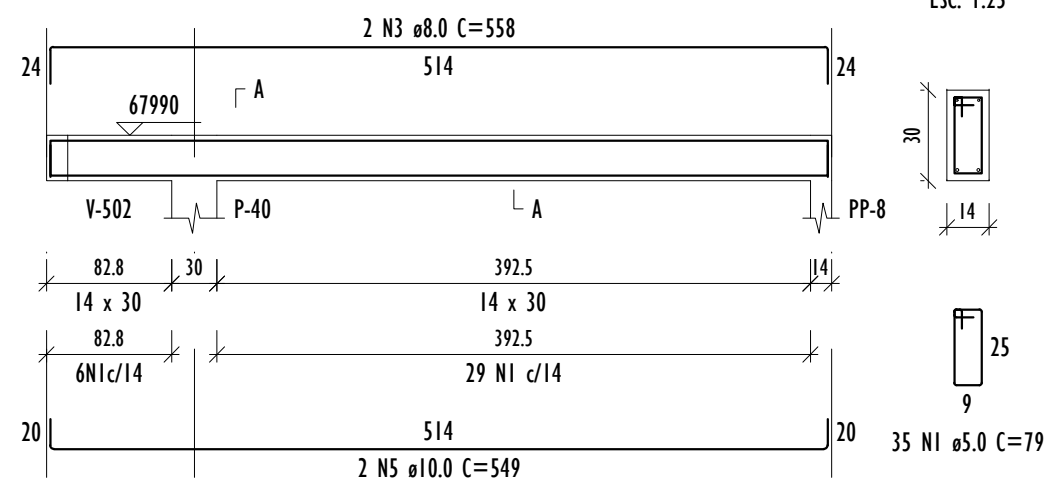
V-503 (14 x 30)

ESC. 1:50



V-504 (14 x 30)

ESC. 1:50



DETALHAMENTO DE VIGAS (NÍVEL 679.90)

ESCALA INDICADA

Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	77	99	7623
	2	5.0	4	71	284
	3	5.0	4	79	316
CA50	4	6.3	2	99	198
	5	8.0	2	249	498
	6	8.0	2	288	576
	7	10.0	8	91	728
	8	10.0	2	252	504
	9	10.0	2	259	518
	10	12.5	2	945	1890
	11	12.5	2	980	1960
	12	12.5	2	355	710
	13	12.5	2	394	788

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT (Barras)	PESO (kg)
CA50	6.3	2	1	0.5
	8.0	10.8	1	4.2
	10.0	17.5	2	10.8
	12.5	53.5	5	51.5
CA60	5.0	82.3	7	12.7

PESO TOTAL (kg)

Volume de concreto (C-30) = 0.84 m³
Área de forma = 11.57 m²

RELAÇÃO DO AÇO

V-401	V-402	V-403
V-404	V-405	V-406
V-407	V-408	V-409
V-410	V-411	V-412
V-413	V-414	V-415
V-416	V-417	V-418
V-419	V-420	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	545	79	43055
CA50	2	6.3	1	99	99
	3	8.0	2	718	1436
	4	8.0	2	693	1386
	5	8.0	2	373	746
	6	8.0	2	668	1336
	7	8.0	6	233	1398
	8	8.0	2	142	284
	9	8.0	2	283	566
	10	8.0	2	1119	2238
	11	8.0	2	1074	2148
	12	8.0	2	454	908
	13	8.0	4	218	872
	14	8.0	4	168	672
	15	8.0	4	363	1452
	16	8.0	2	747	1494
	17	10.0	2	709	1418
	18	10.0	2	684	1368
	19	10.0	2	364	728
	20	10.0	2	659	1318
	21	10.0	6	224	1344
	22	10.0	2	133	266
	23	10.0	2	257	514
	24	10.0	2	1110	2220
	25	10.0	2	1087	2174
	26	10.0	2	445	890
	27	10.0	4	209	836
	28	10.0	4	159	636
	29	10.0	4	354	1416
	30	10.0	2	738	1476
	31	12.5	2	627	1254
	32	12.5	2	635	1270

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	6.3	1	1	0.2
	8.0	169.4	15	66.8
	10.0	166	14	102.4
	12.5	25.2	3	24.3
CA60	5.0	430.6	36	66.4

PESO TOTAL (kg)

Volume de concreto (C-30) = 3.05 m³
Área de forma = 53.75 m²

REV.	DESCRIÇÃO	DATA	EXEC.	VERIF.	APROV.
03	ATUALIZAÇÃO PLANTA DE SITUAÇÃO	08/2026	RF	LS	SL
02	REVISÃO DETALHAMENTO BLOCOS	07/2026	RF	LS	SL
01	REVISÃO DE PROJETO	06/2026	RF	LS	SL
00	EMIÇÃO INICIAL	05/2026	RF	LS	SL

CONTRATADA:	RE: Sinval Ladeira REG. CREIA: 28.498/D ASS: SINIVAL LADEIRA/1379724767 2
-------------	--

CONTRATANTE:	PREFEITURA MUNICIPAL DE JUIZ DE FORA
--------------	--------------------------------------

ENDEREÇO:	JUIZ DE FORA/MG
-----------	-----------------

PROGRAMA:	UBS VALADARES
-----------	---------------

TÍTULO E CONTEÚDO:	PROJETO EXECUTIVO ESTRUTURAL DETALHAMENTO DE VIGAS NÍVEL 677.55 - PARTE 03/03 DETALHAMENTO DE VIGAS NÍVEL 678.70 DETALHAMENTO DE VIGAS NÍVEL 679.90
--------------------	--

DATA:	MAIO/2026	ESCALA:	INDICADA	FOLHA:	20/23
ARQUIVO:	ESTC-PE-JF691-VDLDR-052026-803				