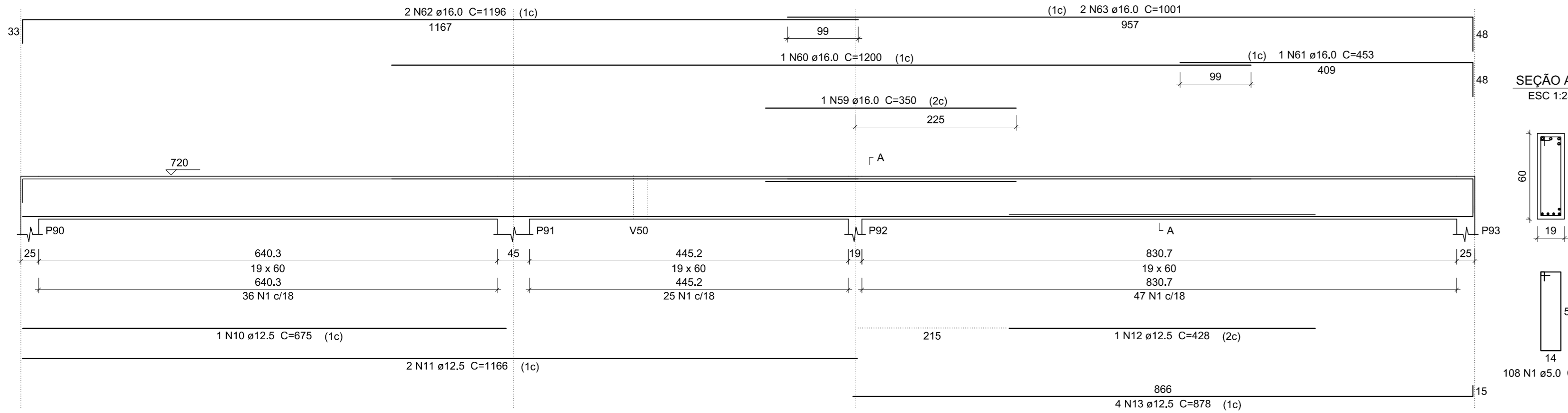


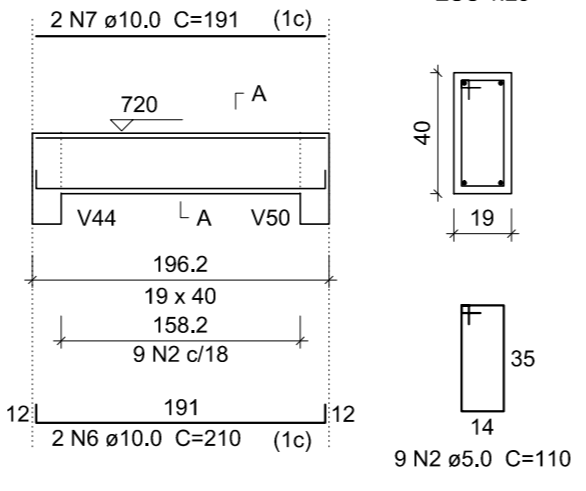
V22

ESC 1:50



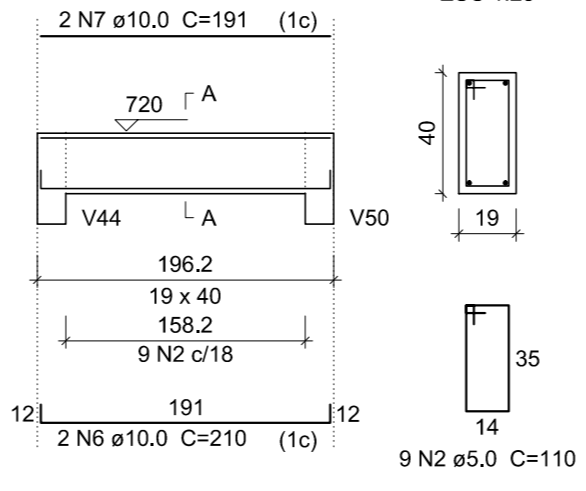
V23

ESC 1:50



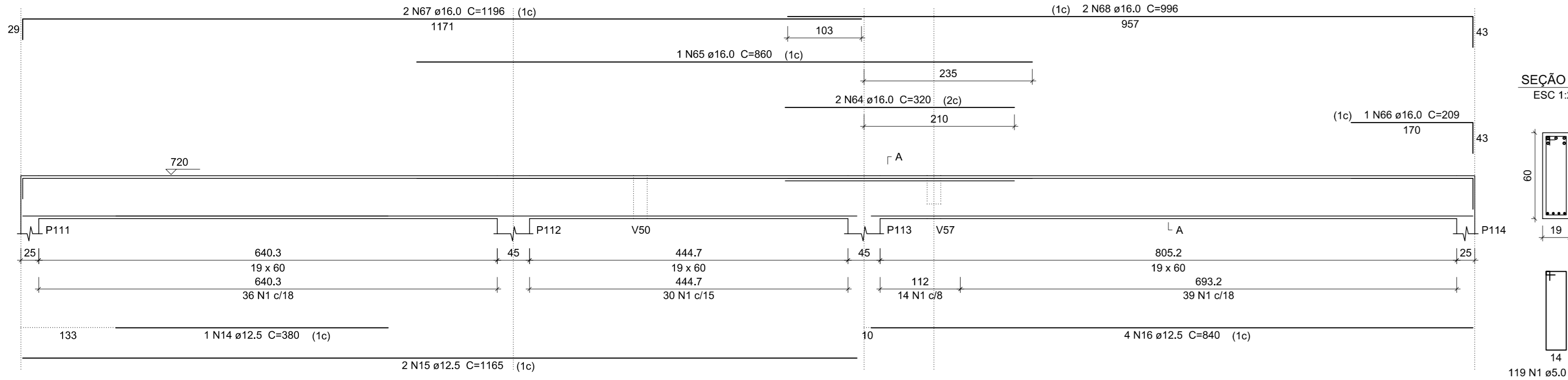
V24

ESC 1:50



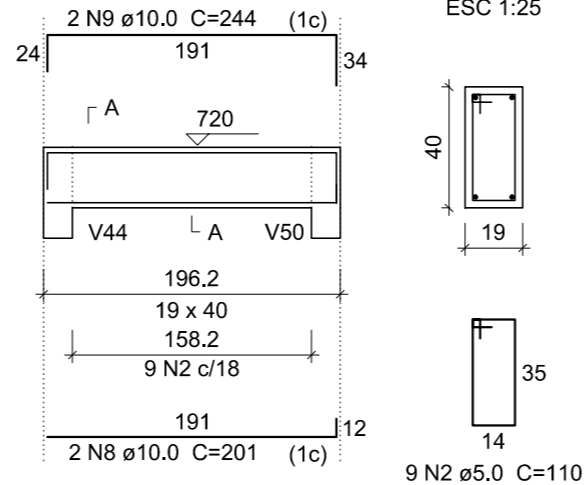
V25

ESC 1:50



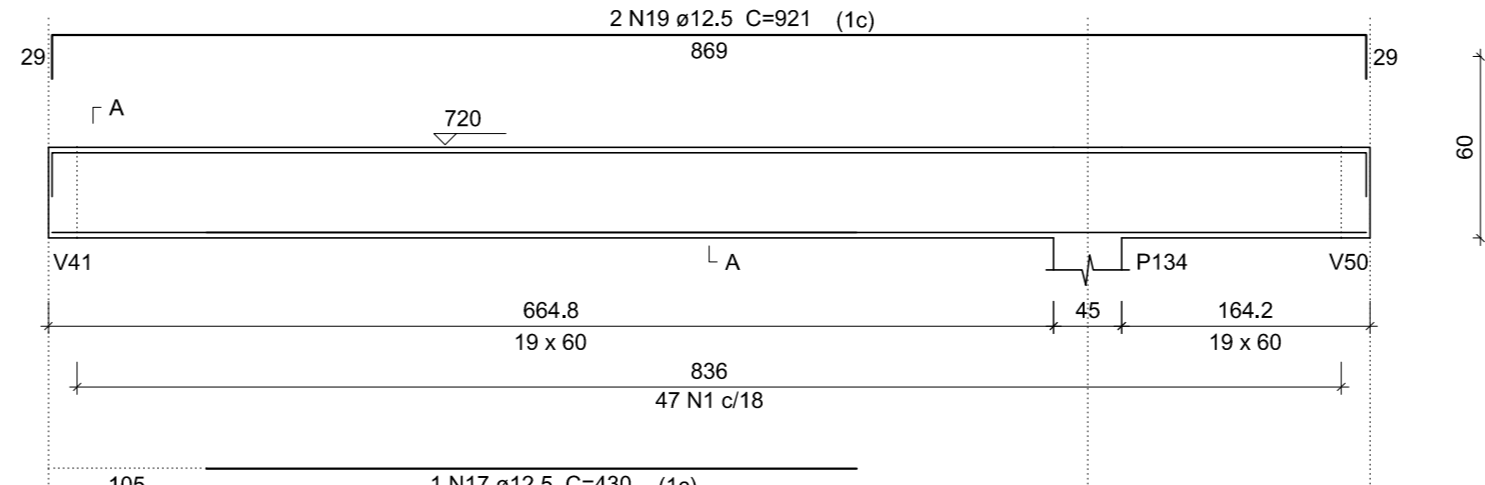
V26

ESC 1:50



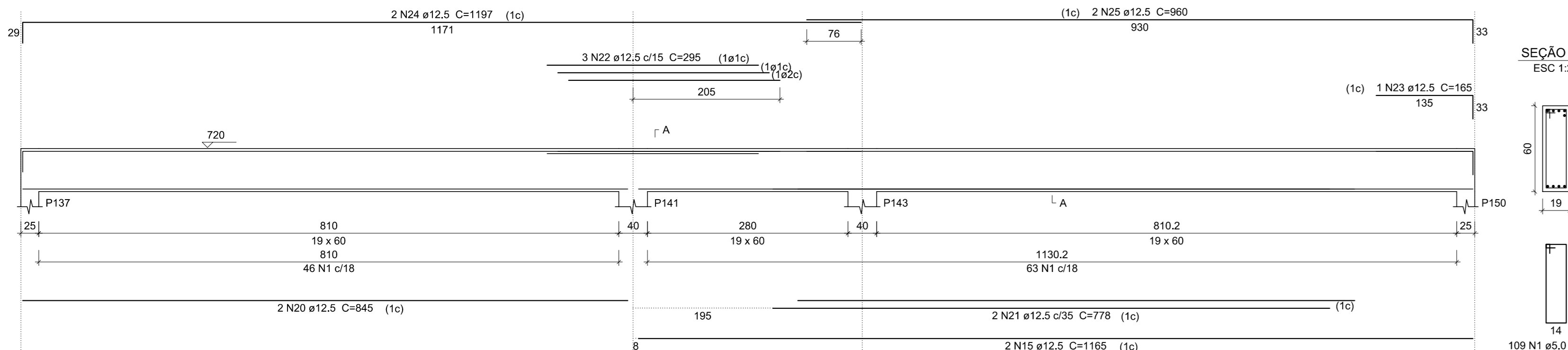
V27

ESC 1:50



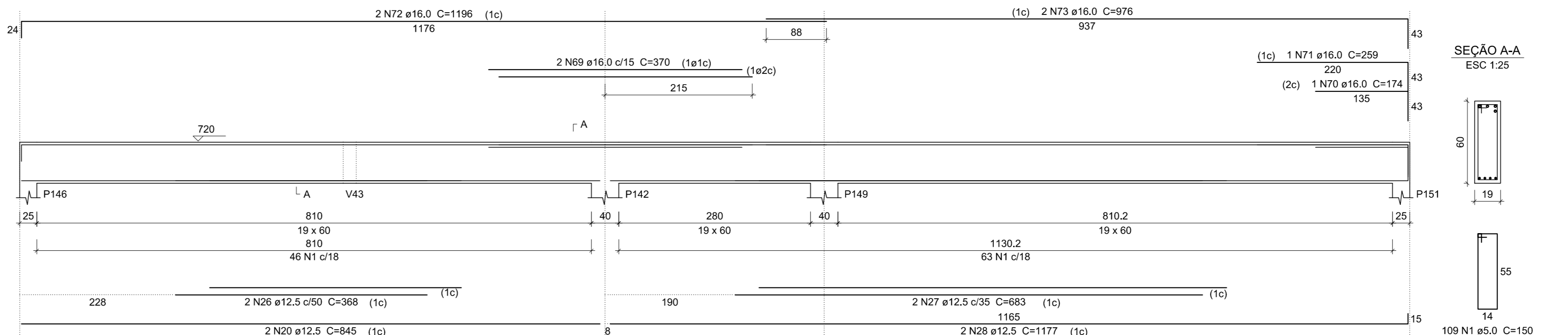
V28

ESC 1:50



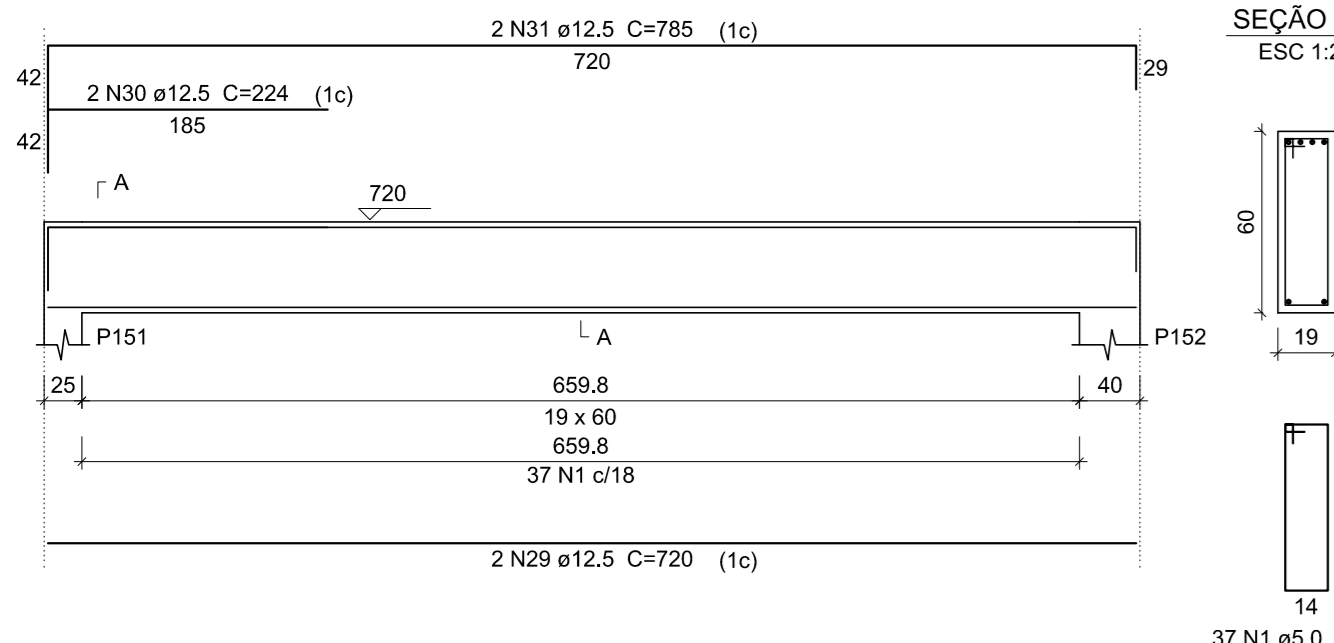
V29

ESC 1:50



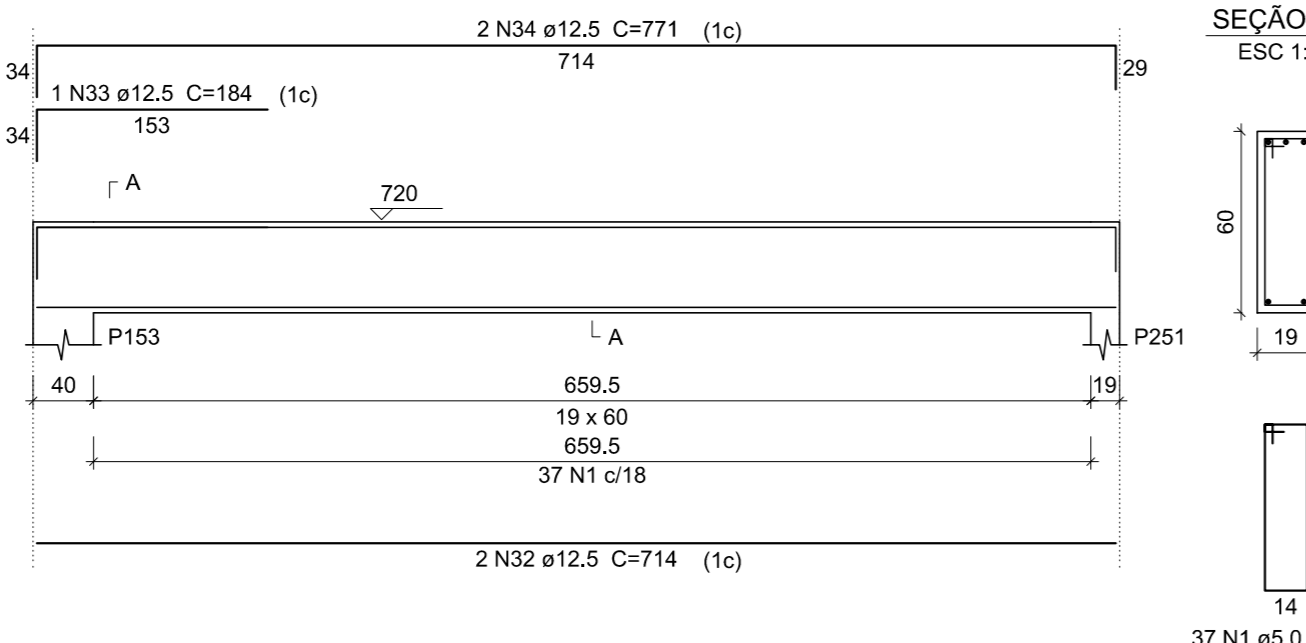
V30

ESC 1:50



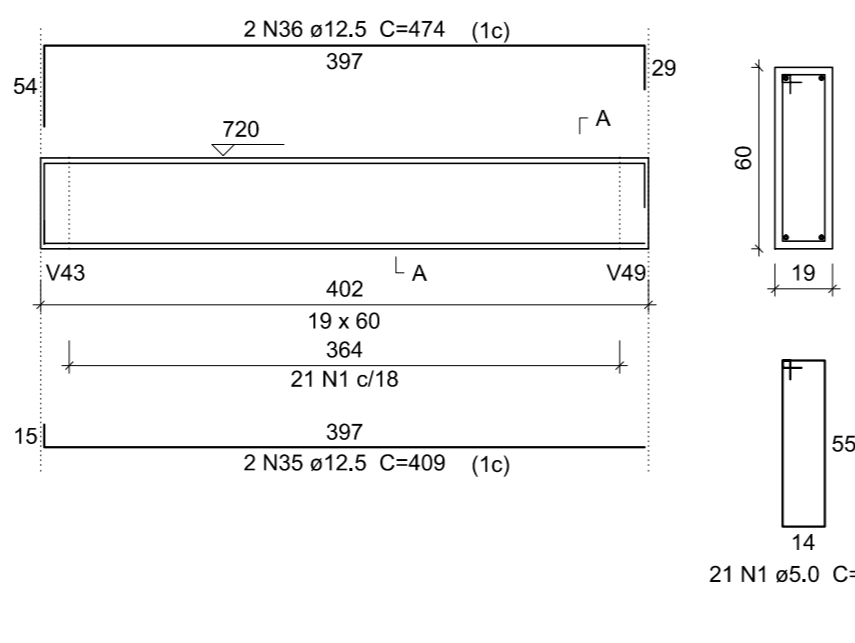
V31

ESC 1:50



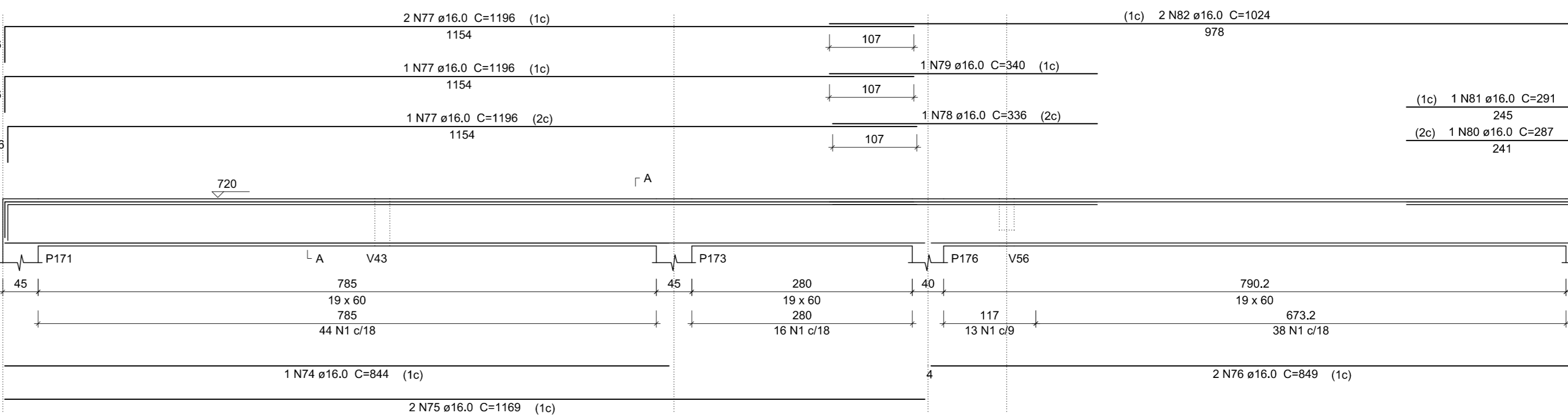
V32

ESC 1:50



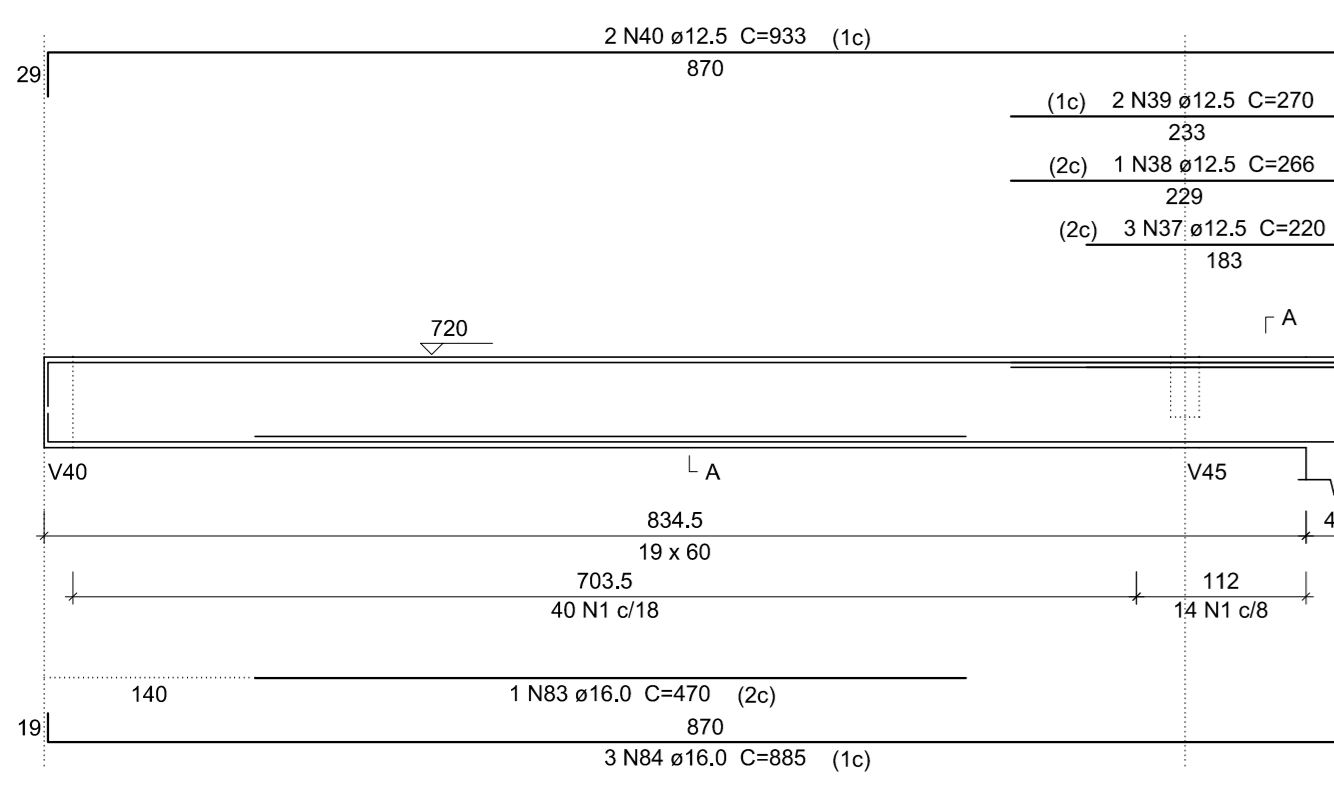
V33

ESC 1:50



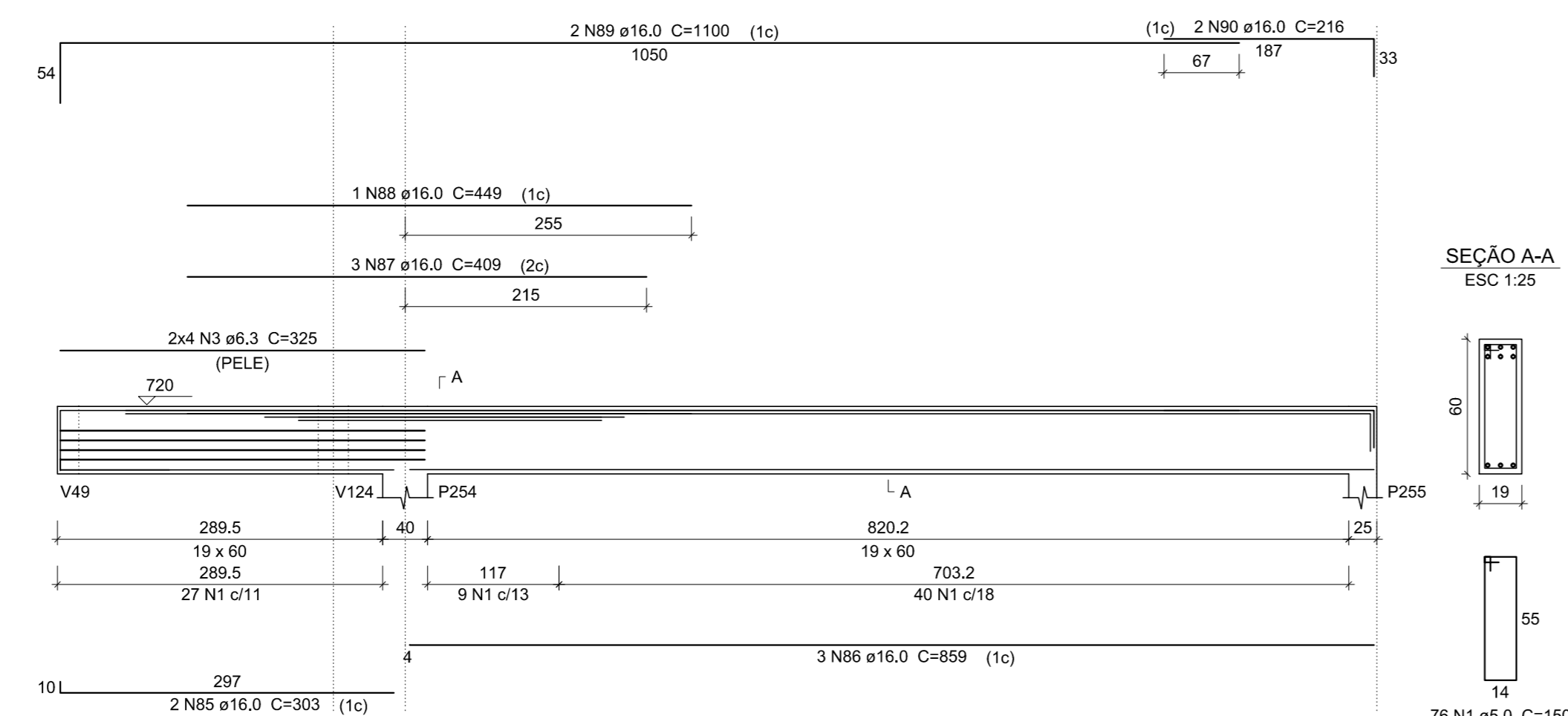
V34

ESC 1:50



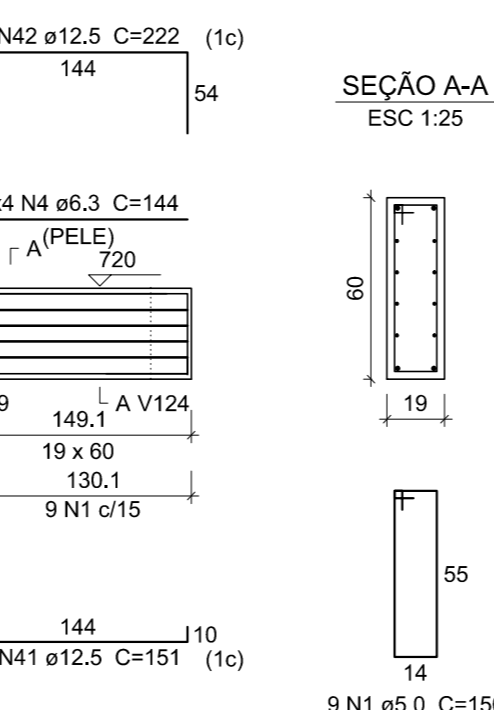
V35

ESC 1:50



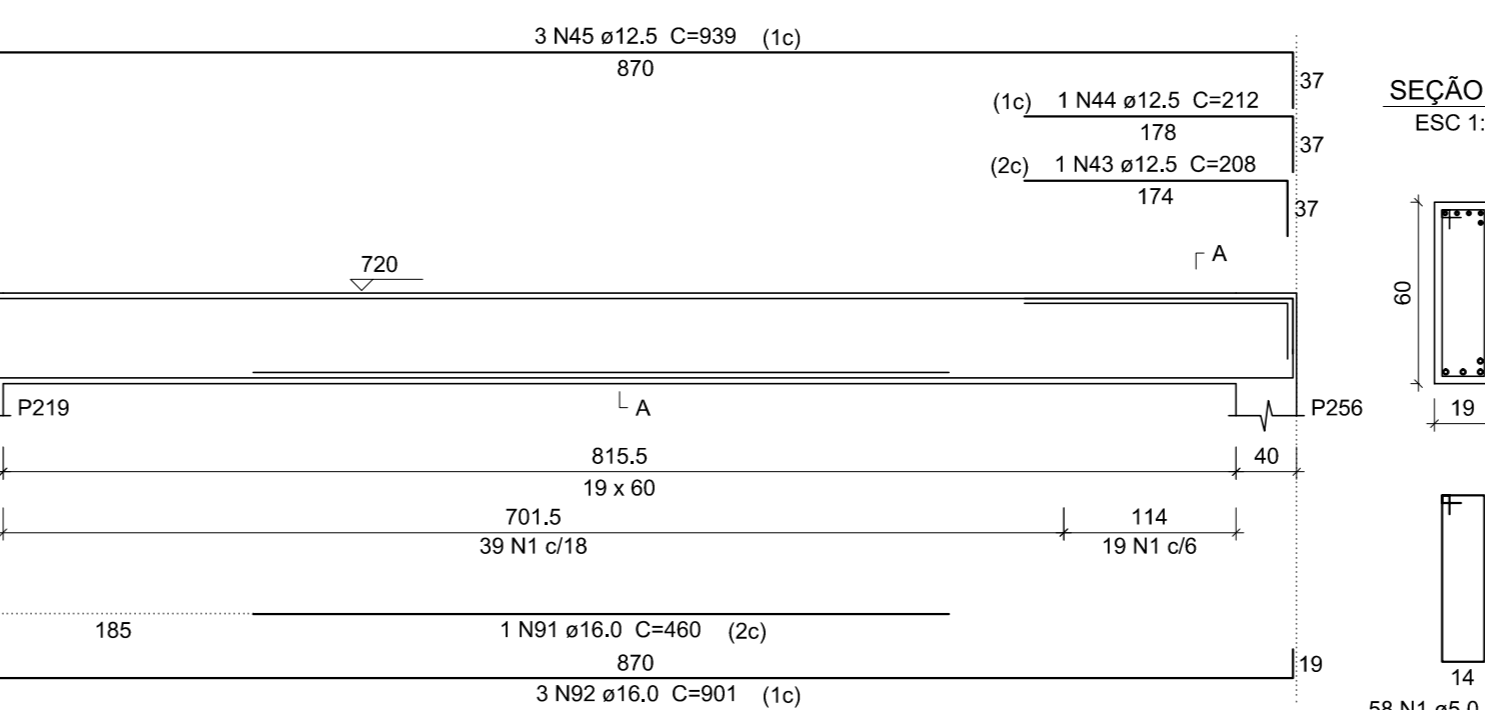
V36

ESC 1:50



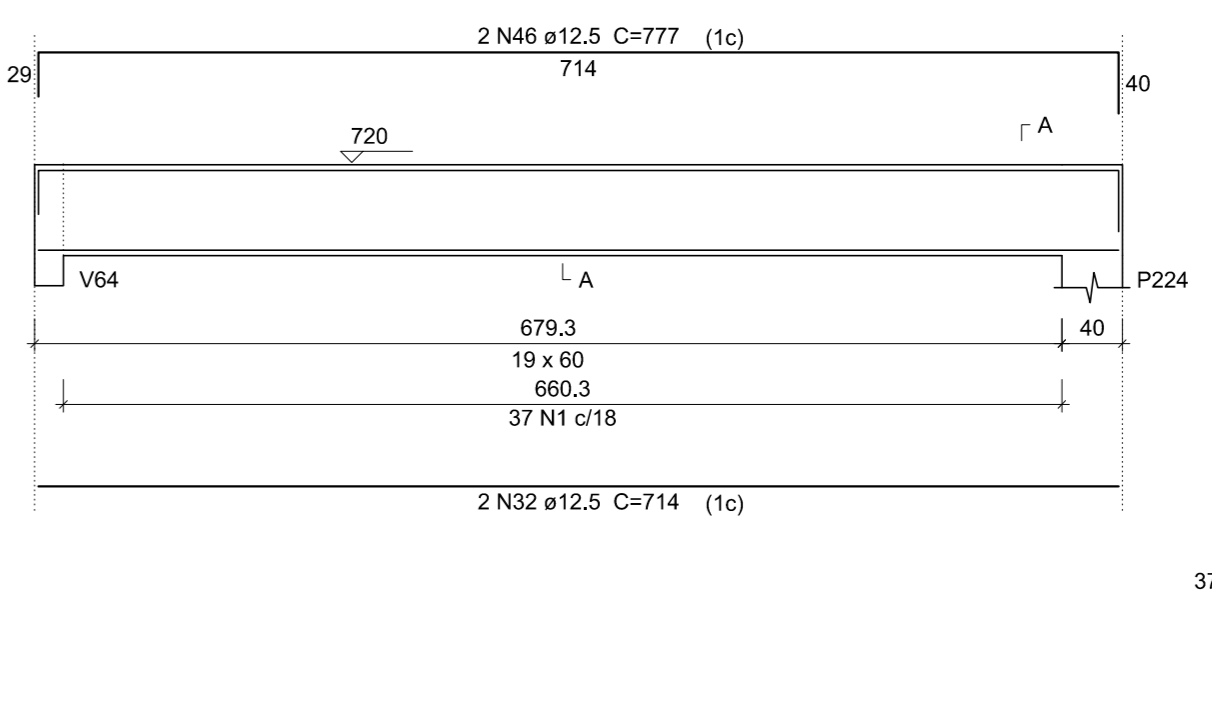
V37

ESC 1:50



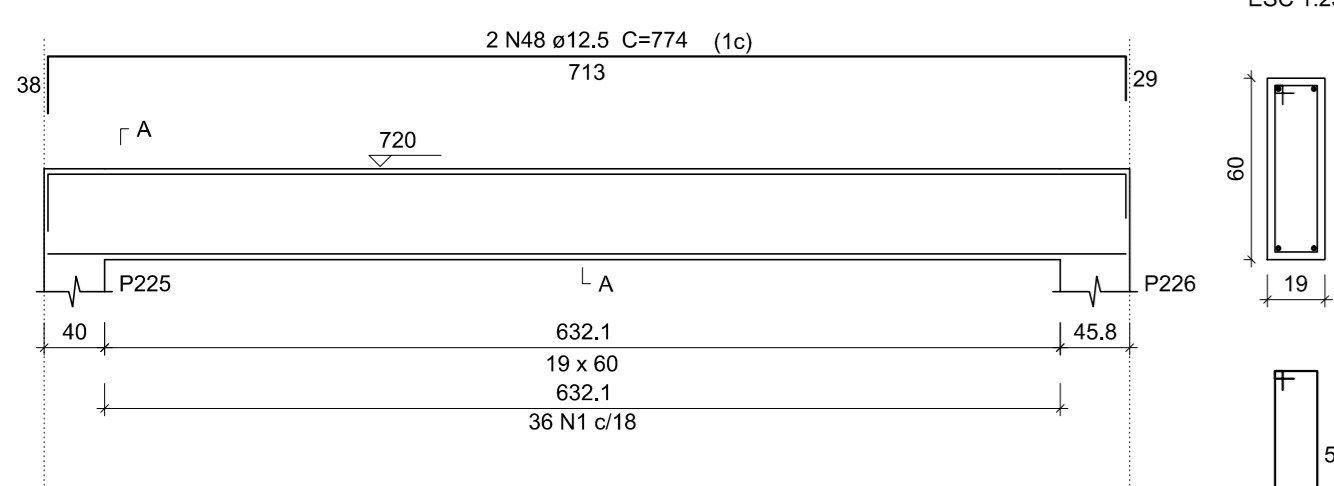
V38

ESC 1:50



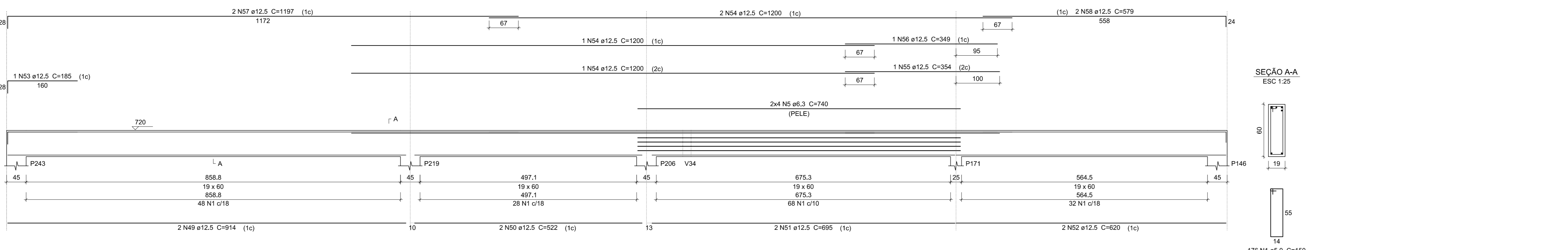
V39

ESC 1:50



V40

ESC 1:50



Relação do aço

ACO	N	DIAM	Q	UNID	C.TOTAL
CA80	1	5.0	1144	150	171600
CA80	2	5.0	27	110	2970
CA80	3	6.3	8	325	2600
CA80	4	6.3	8	144	1152
CA80	5	6.3	8	740	4620
CA80	6	10.0	4	210	840
CA80	7	10.0	4	191	764
CA80	8	10.0	2	201	402
CA80	9	10.0	2	244	488
CA80	10	12.5	1	875	875
CA80	11	12.5	2	1166	2332
CA80	12	12.5	1	428	428
CA80	13	12.5	4	878	3512
CA80	14	12.5	1	380	380
CA80	15	12.5	4	1165	4660
CA80	16	12.5	4	840	3360
CA80	17	12.5	1	430	430
CA80	18	12.5	2	869	1738
CA80	19	12.5	2	821	1642
CA80	20	12.5	4	845	3380
CA80	21	12.5	2	778	1556
CA80	22	12.5	3	295	885
CA80	23	12.5	1	165	165
CA80	24	12.5	2	1197	2394
CA80	25	12.5	4	845	3380
CA80	26	12.5	2	368	736
CA80	27	12.5	1	683	683
CA80	28	12.5	2	1177	2354
CA80	29	12.5	2	720	1440
CA80	30	12.5	1	224	224
CA80	31	12.5	2	785	1570
CA80	32	12.5	4	714	2856
CA80	33	12.5	1	184	184
CA80	34	12.5	2	771	1542
CA80	35	12.5	2	409	818
CA80	36	12.5	2	474	948
CA80	37	12.5	3	220	660
CA80	38	12.5	1	266	266
CA80	39	12.5	2	270	540
CA80	40	12.5	2	444	888
CA80	41	12.5	2	151	302
CA80	42	12.5	3	220	660
CA80	43	12.5	1	208	208
CA80	44	12.5	1	212	212
CA80	45	12.5	3	830	2490
CA80	46	12.5	2	777	1554
CA80	47	12.5	4	713	2852
CA80	48	12.5	2	774	1548
CA80	49	12.5	2	914	1828
CA80	50	12.5	2	922	1844
CA80	51	12.5	2	695	1390
CA80	52	12.5	2	620	1240
CA80	53	12.5	1	185	185
CA80	54	12.5	4	1200	4800
CA80	55	12.5	1	354	354
CA80	56	12.5	1	349	349
CA80	57	12.5	2	1197	2394
CA80	58	12.5	2	579	1158
CA80	59	16.0	1	350	350
CA80	60	16.0	1	1200	1200
CA80	61	16.0	1	453	453
CA80	62	16.0	2	1196	2392
CA80	63	16.0	2	1001	2002
CA80	64	16.0	2	320	640
CA80	65	16.0	1	860	860
CA80	66	16.0	1	209	209
CA80	67	16.0	2	1196	2392
CA80	68	16.0	2	996	1992
CA80	69	16.0	2	370	740
CA80	70	16.0	1	174	174
CA80	71	16.0	1	259	259
CA80	72	16.0	2	1196	2392
CA80	73	16.0	2	976	1952
CA80	74	16.0	1	844	844
CA80	75	16.0	2	1159	2318
CA80	76	16.0	2	849	1698
CA80	77	16.0	4	1156	4624
CA80	78	16.0	1	336	336
CA80	79	16.0	1	340	340
CA80	80	16.0	1	287	287
CA80	81	16.0	1	291	291
CA80	82	16.0	2	1024	2048
CA80	83	16.0	1	470	470
CA80	84	16.0	3	885	2655
CA80	85	16.0	1	303	303
CA80	86	16.0	3	859	2577
CA80	87	16.0	3	409	1227
CA80	88	16.0	1	449	449
CA80	89	16.0	2	1100	2200
CA80	90	16.0	2	216	432
CA80	91	16.0	1	460	460
CA80	92	16.0	3	901	2703

Resumo do aço

ACO	DIAM	C.TOTAL	PESO + 10%
CA80	6.3	96.8	26
CA80	10.0	25	16.9
CA80	12.5	705.1	747.1
CA80	16.0	447.6	777
CA80	5.0	1746.7	298
CA80	1567		
CA80	298		

Vol. de concreto total (C-30) = 23.45 m³
Área de forma total = 286.34 m²

Vigas da cobertura
escala 1:50

HB ENGENHARIA
PROFIS E EXECUCOES DE OBRAS

ALEX SANDRO BOLIGON
ENGENHEIRO CIVIL
CREASC 06741-4

ALLAN FELIPE MELCHIORETTO
ENGENHEIRO CIVIL
CREASC 14171-4

RUA NORBERTO SILVEIRA JUNIOR, nº 191, SL. 05
CENTRO - GUARABIRIM - SC
47.376-2317 / 19125-2640 / 98400-4518

ESCOLA MUNICIPAL IRMÃ FILOMENA

PROJETO ESTRUTURAL

DESENHO: VIGAS DA COBERTURA. ESCALA: INDICADA
PROPRIETARIO: MUNICIPIO DE TREZE TILIAS. DESENHO: RAFAEL
LOCAL: RUA DR. IVO DAQUINO Nº 220, BAIRRO CENTRO, TREZE TILIAS/SC. DATA: ABRIL, 2018

RESP. TECNICO: CONTRATANTE: FOLHA Nº: 12

ALEX SANDRO BOLIGON
ENGENHEIRO CIVIL
CREASC 06741-4

MUNICIPIO DE TREZE TILIAS
CNPJ: 07.251.000/41
MAURO DRESCHE
CPF: 40.448.800/00
CARGO: PREFEITO