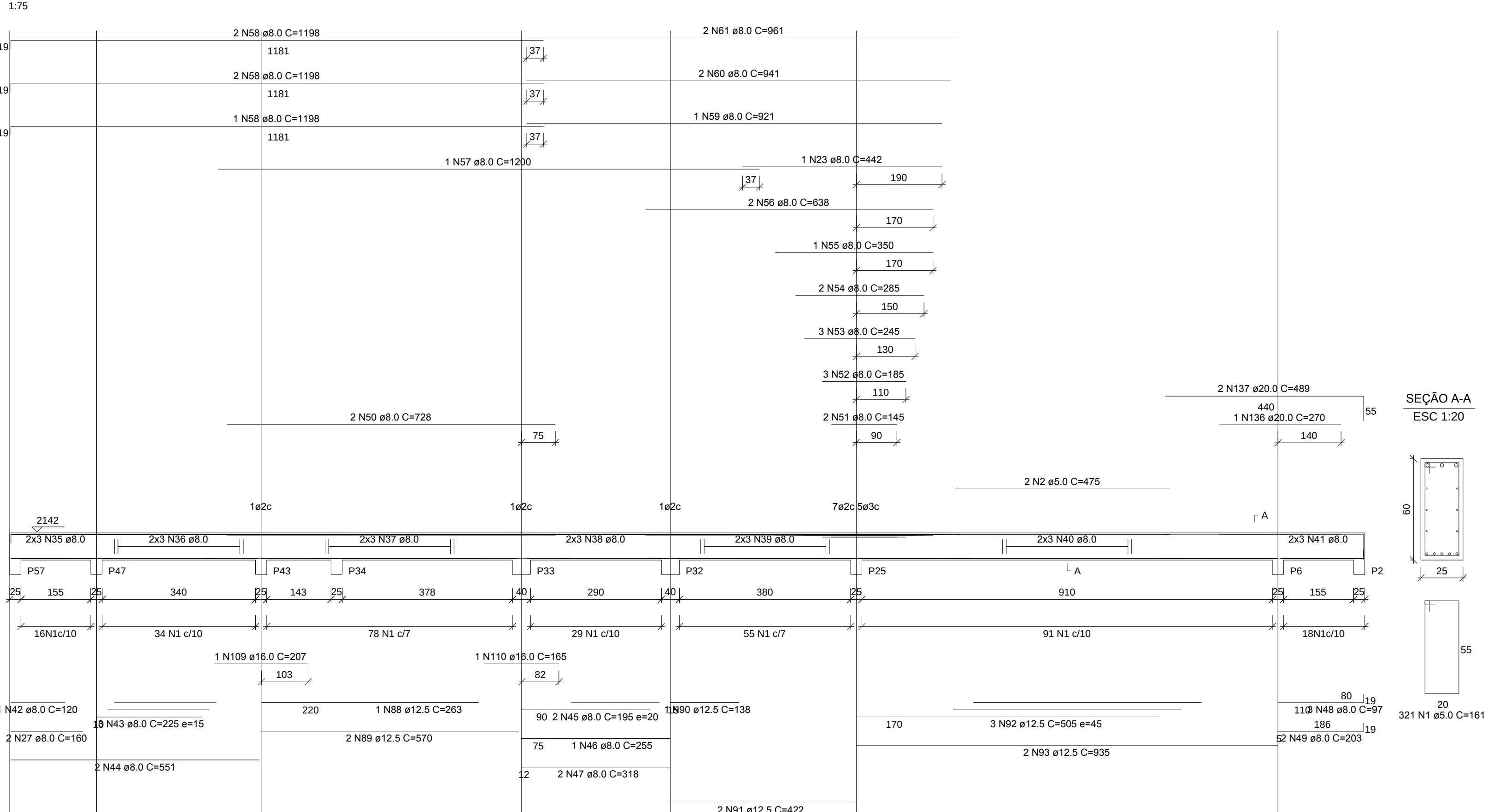
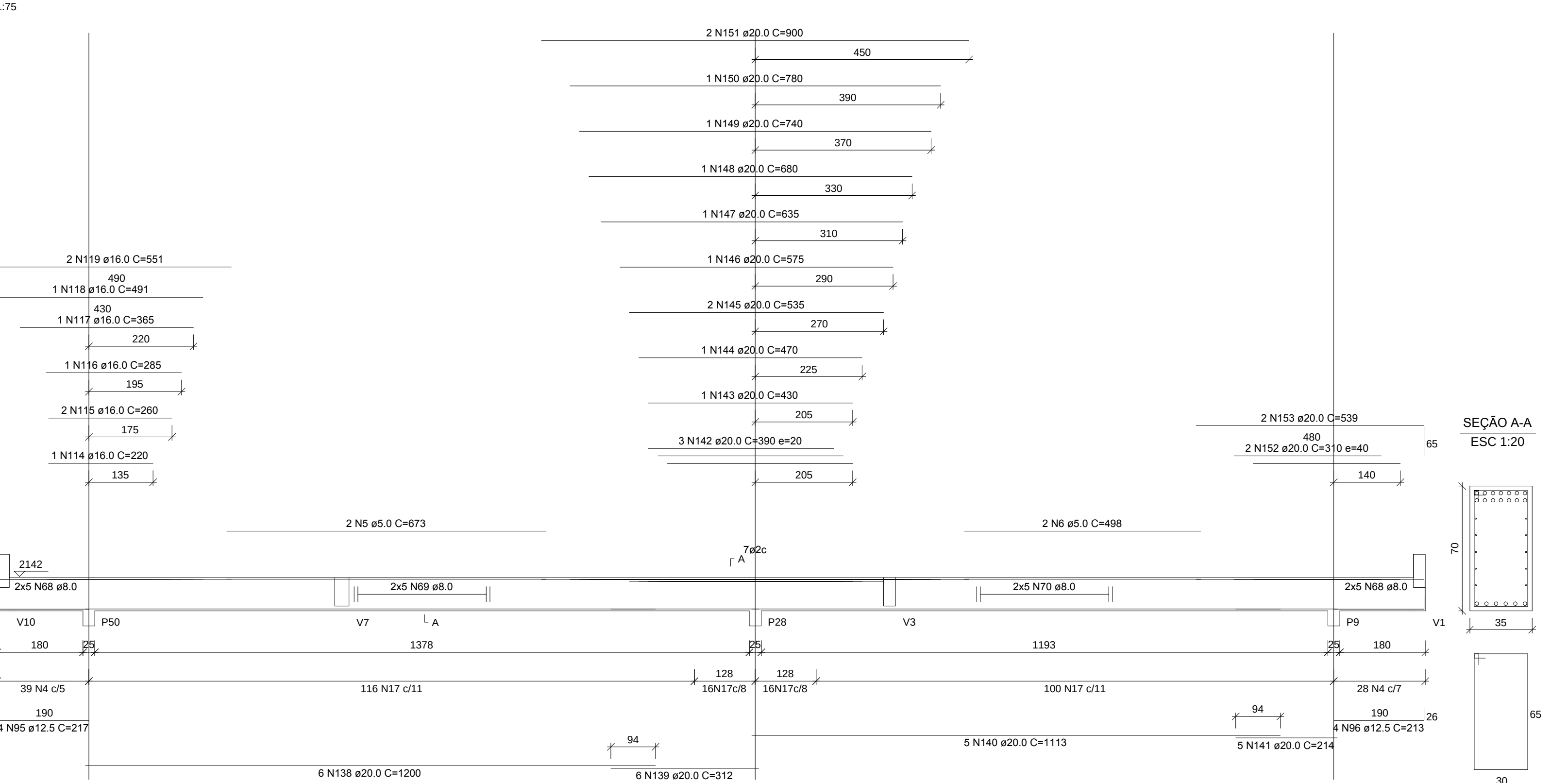


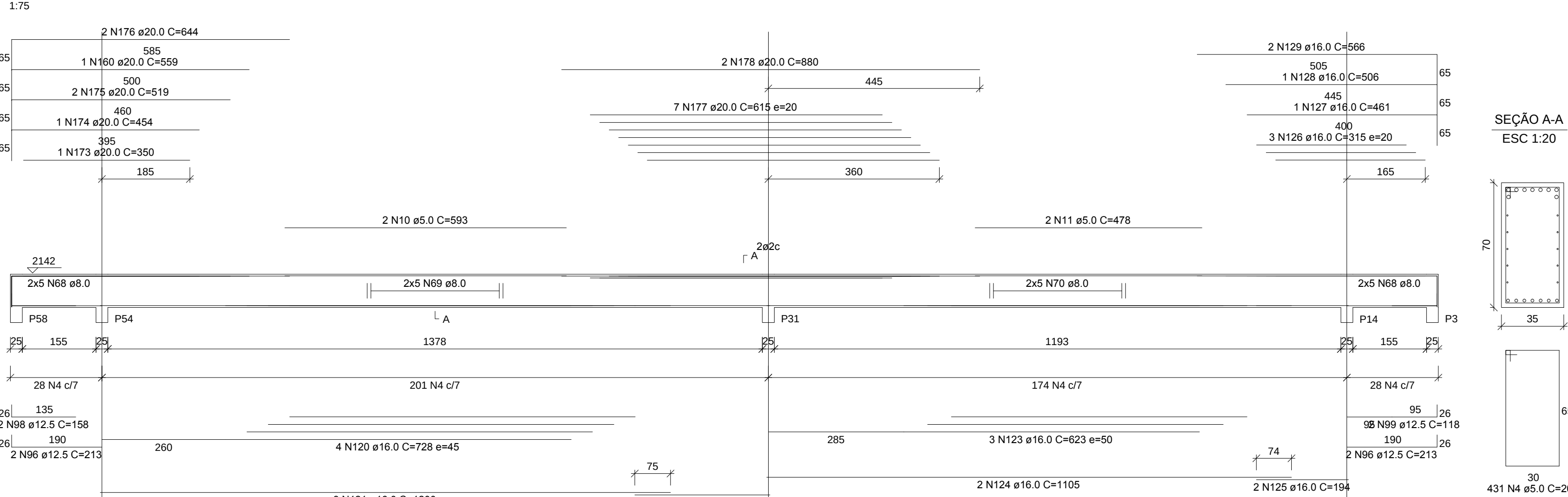
V12



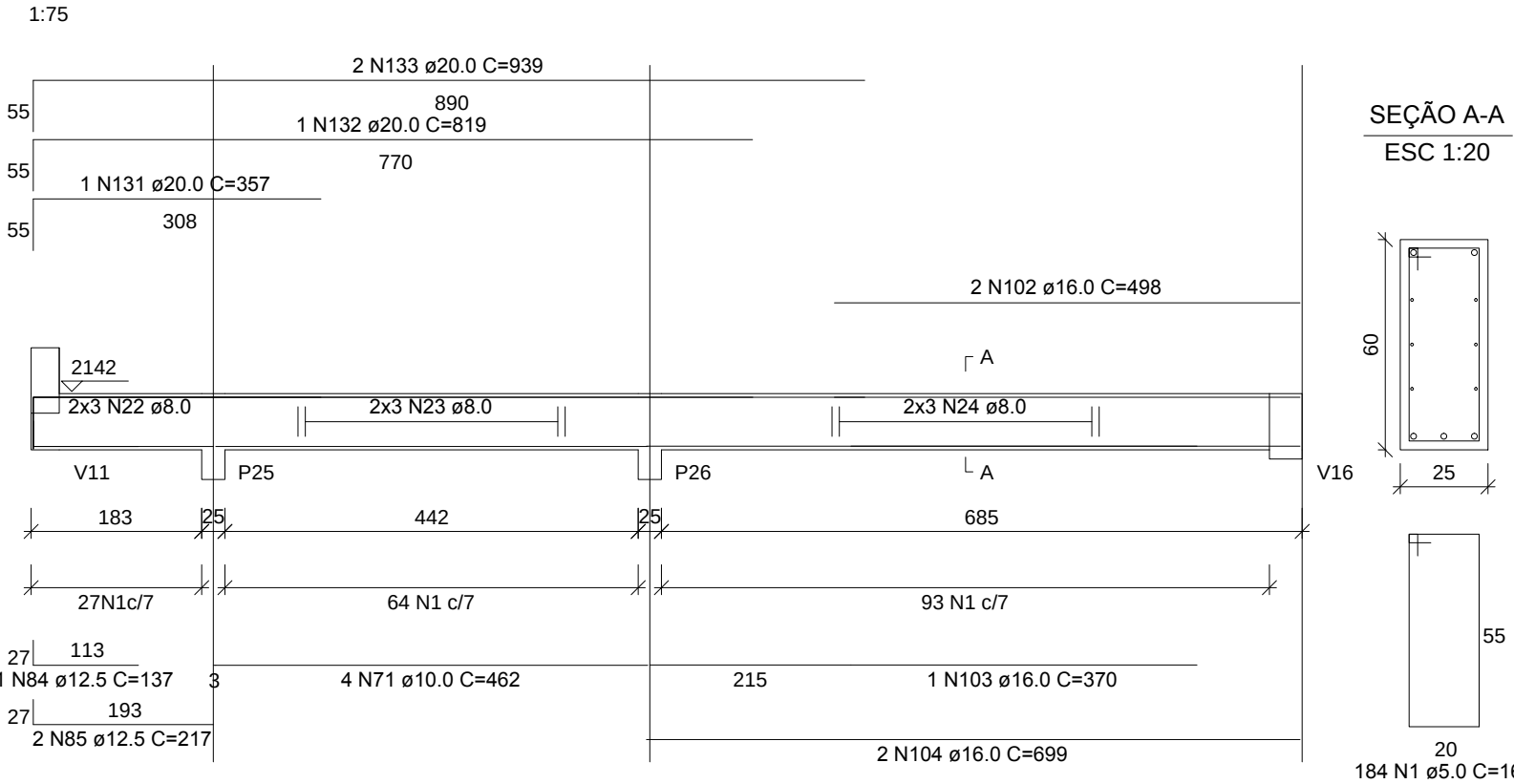
V16



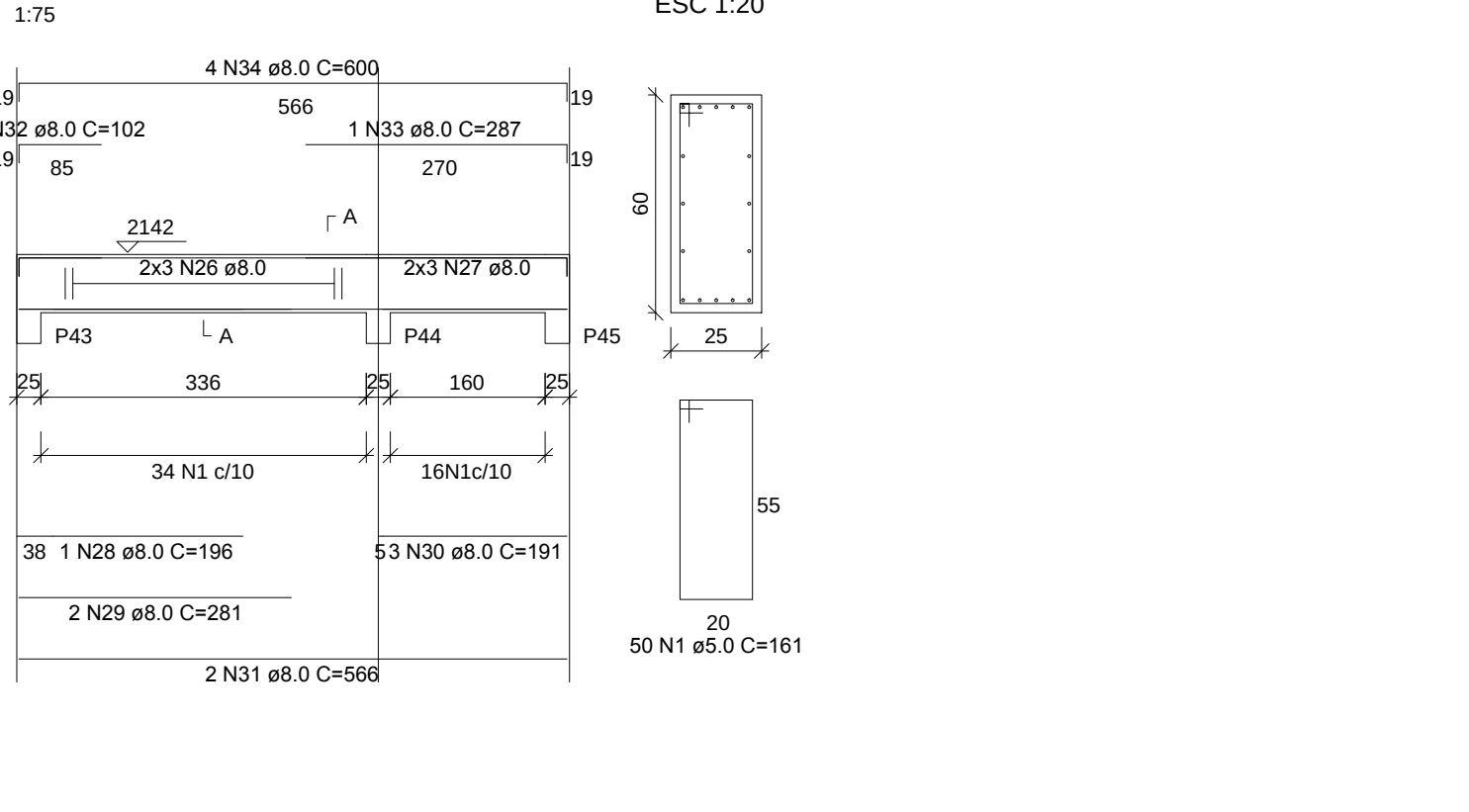
V18



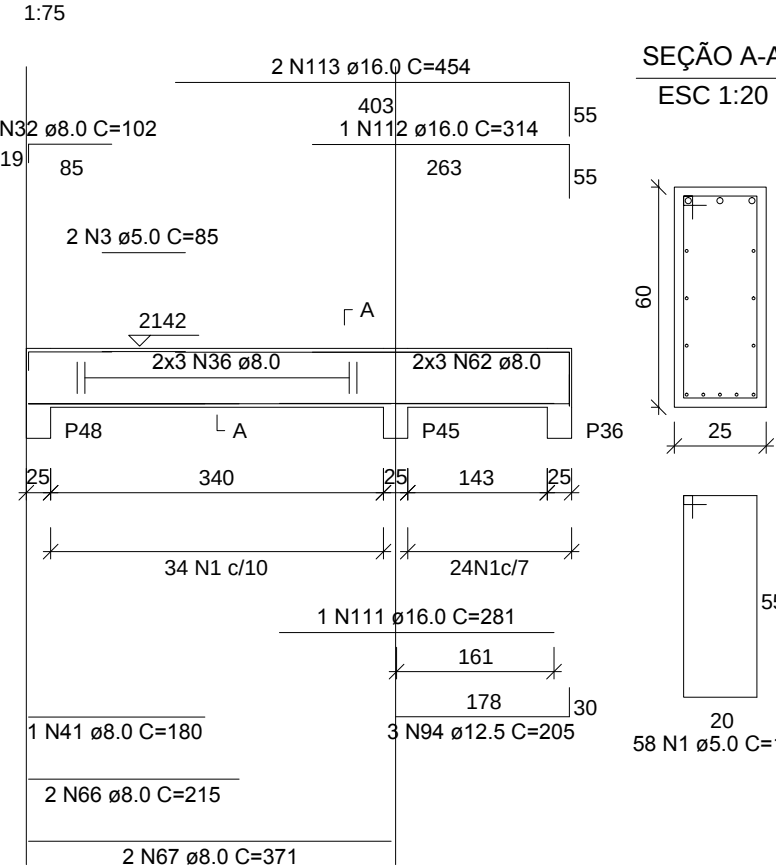
V3



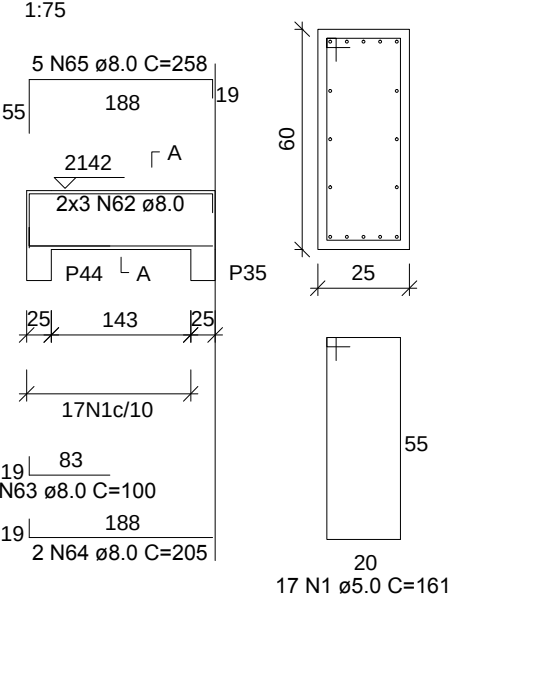
V8



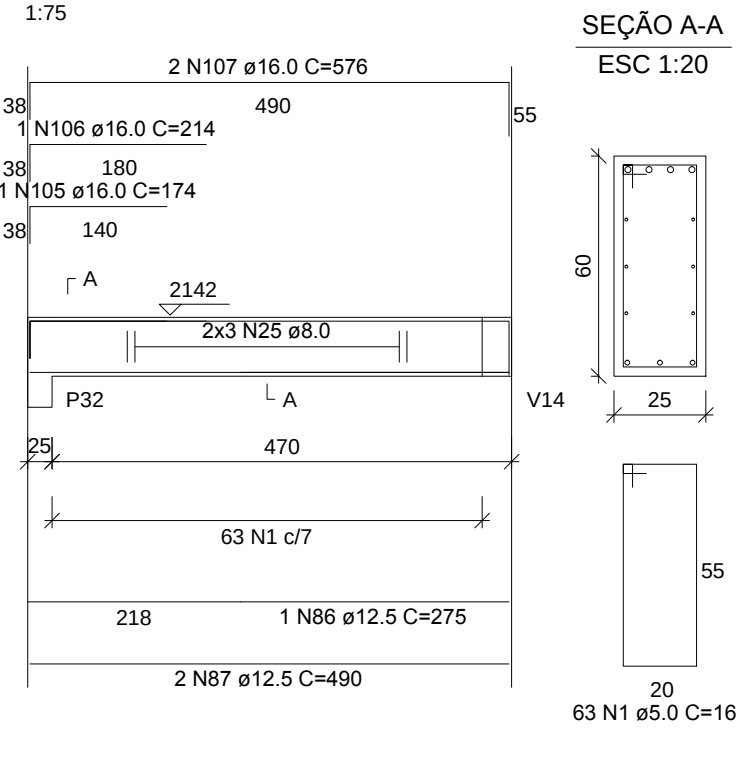
V15



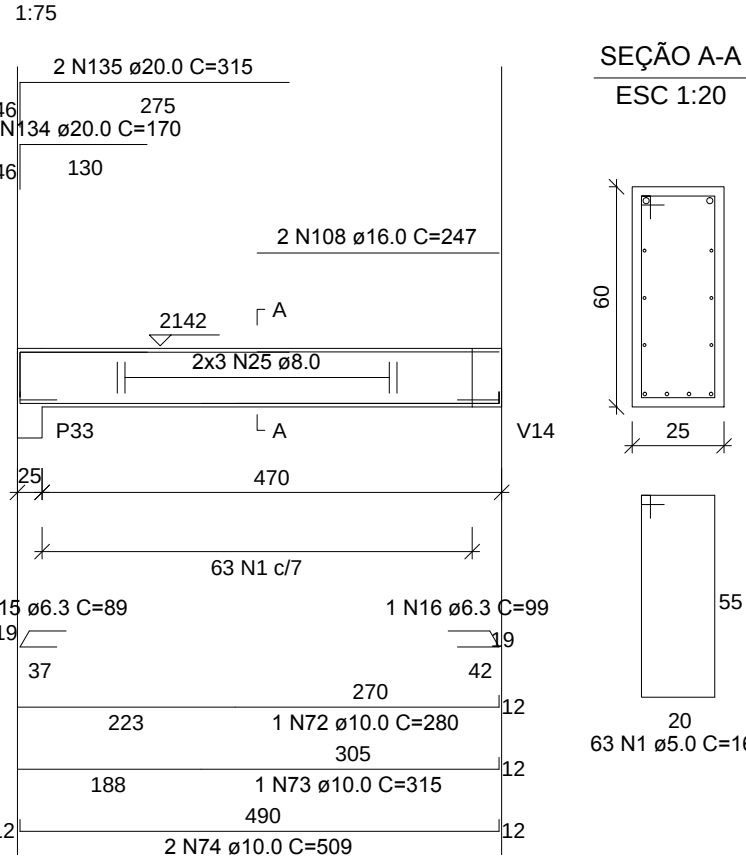
V13



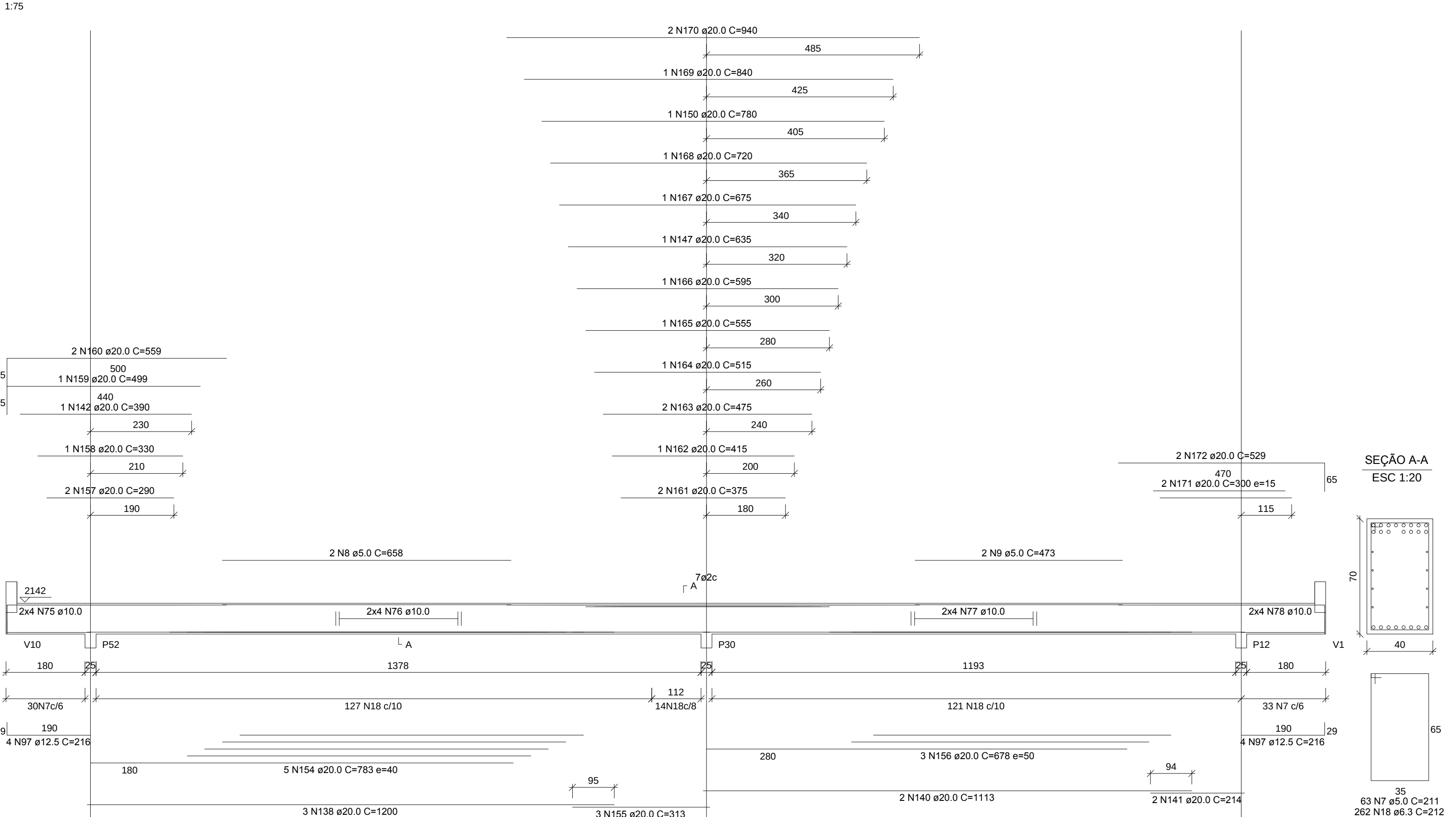
V5



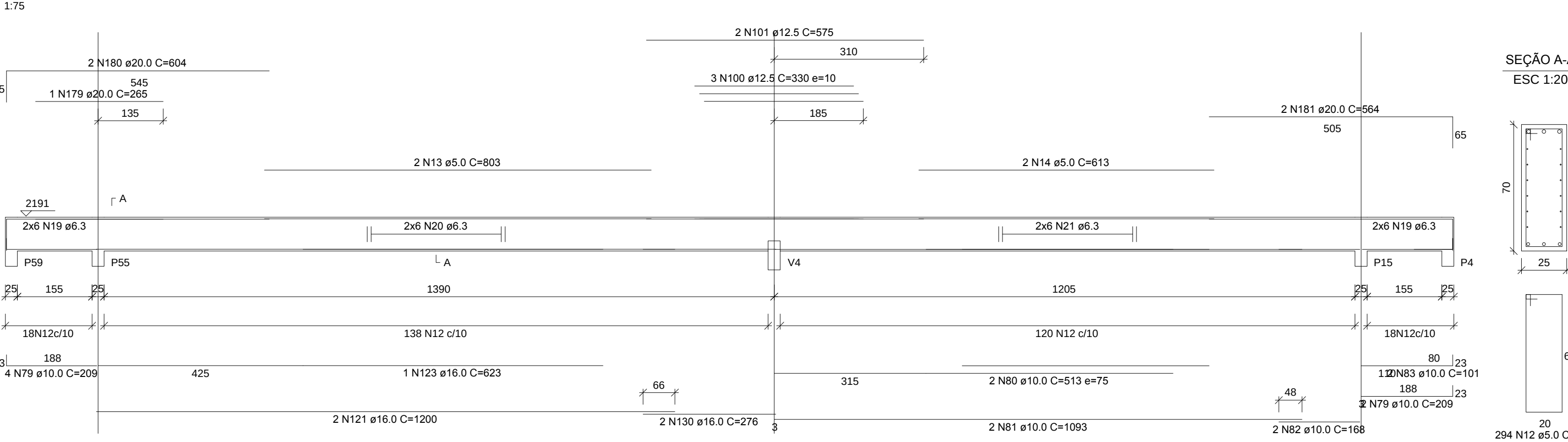
V6



V17



V19



RELAÇÃO DO AÇO

ACO	N	DIAM	Q	C TOTAL	UNIT	C TOTAL
60	1	5.0	756	1861	122176	
	2	5.0	2	475	950	
	3	5.0	2	80	170	
	4	5.0	498	201	10098	
	5	5.0	2	623	1346	
	6	5.0	63	431	13203	
	7	5.0	2	473	1311	
	8	5.0	2	478	1386	
	9	5.0	2	478	1386	
	10	5.0	2	478	1386	
	11	5.0	2	478	1386	
	12	5.0	2	478	1386	
	13	5.0	2	803	1606	
	14	5.0	2	803	1606	
	15	5.0	1	89	89	
	16	5.0	1	89	89	
	17	5.0	248	202	50096	
	18	5.0	248	202	50096	
	19	5.0	24	430	430	
	20	5.0	12	1038	1038	
	21	5.0	12	1038	1038	
	22	5.0	12	1038	1038	
	23	5.0	7	3994	3994	
	24	5.0	6	3994	3994	
	25	5.0	12	5280	5280	
	26	5.0	6	2015	2015	
	27	5.0	8	1280	1280	
	28	5.0	1	186	186	
	29	5.0	2	281	562	
	30	5.0	2	566	1132	
	31	5.0	2	102	612	
	32	5.0	1	287	287	
	33	5.0	1	287	287	
	34	5.0	1	600	600	
	35	5.0	6	330	990	
	36	5.0	12	420	1260	
	37	5.0	6	330	990	
	38	5.0	6	330	990	
	39	5.0	6	330	990	
	40	5.0	6	330	990	
	41	5.0	6	330	990	
	42	5.0	1	120	120	
	43	5.0	1	120	120	
	44	5.0	2	551	1102	
	45	5.0	1	155	155	
	46	5.0	1	255	255	
	47	5.0	1	255	255	
	48	5.0	3	97	291	
	49	5.0	3	145	435	
	50	5.0	2	728	1456	
	51	5.0	2	145	290	
	52	5.0	3	185	555	
	53	5.0	3	245	735	
	54	5.0	2	285	570	
	55	5.0	2	638	1276	
	56	5.0	2	1200	2400	
	57	5.0	2	941	1882	
	58	5.0	5	1108	5540	
	59	5.0	2	941	1882	
	60	5.0	2	205	410	
	61	5.0	3	100	300	
	62	5.0	12	205	2460	
	63	5.0	3	100	300	
	64	5.0	2	205	410	
	65	5.0	2	205	410	
	66	5.0	2	215	430	
	67	5.0	2	215	430	
	68	5.0	40	205	8200	
	69	5.0	20	205	4100	
	70	5.0	20	205	4100	
	71	5.0	4	482	1928	
	72	5.0	1	315	315	
	73	5.0	1	315	315	
	74	5.0	1	315	315	
	75	5.0	8	315	2520	
	76	5.0	8	315	2520	
	77	5.0	8	315	2520	
	78	5.0	6	209	1254	
	79	5.0	6	209	1254	
	80	5.0	6	209	1254	
	81	5.0	2	1063	2126	
	82	5.0	2	1063	2126	
	83	5.0	2	101	202	
	84	5.0	2	137	274	
	85	5.0	2	217	434	
	86	5.0	2	217	434	
	87	5.0	2	480	960	
	88	5.0	2	138	276	
	89	5.0	2	570	1140	
	90	5.0	2	138	276	
	91	5.0	2	422	844	
	92	5.0	2	935	1870	
	93	5.0	2	935	1870	
	94	5.0	2	295	590	
	95	5.0	4	217	868	
	96	5.0	8	213	1704	
	97	5.0	8	213	1704	
	98	5.0	8	213	1704	
	99	5.0	2	118	236	
	100	5.0	2	330	660	
	101	5.0	2	575	1150	
	102	5.0	2	498	996	
	103	5.0	2	370	740	
	104	5.0	2	699	1398	
	105	5.0	2	699	1398	
	106	5.0	1	214	214	
	107	5.0	1	214	214	
	108	5.0	2	247	494	
	109	5.0	2	247	494	
	110	5.0	1	165	165	
	111	5.0	1	165	165	
	112	5.0	1	314	314	
	113	5.0	1	314	314	
	114	5.0	1	220	220	
	115	5.0	1	220	220	
	116	5.0	1	285	285	
	117	5.0	1	491	491	
	118	5.0	1	491	491	
	119	5.0	1	551	1102	
	120	5.0	4	728	2912	
	121	5.0	4	728	2912	
	122	5.0	3	285	855	
	123	5.0	4	623	2492	
	124	5.0	2	1105	2210	
	125	5.0	3	154	462	
	126	5.0	3	315	945	
	127	5.0	1	461	461	
	128	5.0	1	506	506	
	129	5.0	1	566	566	
	130	5.0	2	275	550	
	131	5.0	1	387	387	
	132	5.0	2	819	1638	
	133	5.0	2	598	1196	
	134	5.0	2	598	1196	
	135	5.0	2	315	630	
	136	5.0	2	315	630	
	137	5.0	2	489	978	
	138	5.0	2	1113	2226	
	139	5.0	6	312	1872	
	140	5.0	7	214	1498	
	141	5.0	7	214	1498	
	142	5.0	1	330	330	
	143	5.0	1	430	430	
	144	5.0	1	430	430	
	145	5.0	2	535	1070	
	146	5.0	2	535	1070	
	147	5.0	2	635	1270	
	148	5.0	2	635	1270	
	149	5.0	1	740	740	
	150	5.0	2	900	1800	
	151	5.0	2	900	1800	
	152	5.0	2	310	620	
	153	5.0	2	539	1078	
	154	5.0	2	753	1506	
	155	5.0	3	313	939	
	156	5.0	3	678	2034	
	157	5.0	2	290	580	
	158	5.0	1	330	330	
	159	5.0	1	499	499	
	160	5.0	1	559	559	
	161	5.0	1	415	415	
	162	5.0	1	375	375	
	163	5.0	1	475	475	
	164	5.0	1	515	515	
	165	5.0	1	555	555	
	166	5.0	1	595	595	
	167	5.0	1	635	635	
	168	5.0	1	720	720	
	169	5.0	1	760	760	
	170	5.0	2	940	1880	
	171	5.0	2	1050	2100	
	172	5.0	2	1217	2434	
	173	5.0	2	1812	3624	
	174	5.0	1	454	454	
	175	5.0	1	514	514	
	176	5.0	2	644	1288	
	177	5.0	2	655	1310	
	178	5.0	2	880	1760	
	179	5.0	2	925	1850	
	180	5.0	2	604	1208	
	181	5.0	2	564	1128	

ACO	DIAM	C TOTAL	PESO+10%
CA50	6.3	1409.0	379.9
	8.0	1278.1	325.5
	10.0	321.1	217.8
	12.5	152.1	181.2
	16.0	281.3	488.5
	20.0	702.4	1007.2
CA60	5.0	2988.2	507.8

Vol. de concreto total (C-25) = 38.41 m³

Área de forma total = 305.64 m²

Nº: DATA RESPONSÁVEL DESCRIÇÃO DA REVISÃO:	
FASE: PROJETO DE CÁLCULO ESTRUTURAL	
OBSERVAÇÕES: CONFERIR MEDIDAS NA OBRA	
APOIO MORADIA 2 LAVANDERIA CAMPUS JK / DIAMANTINA	
RODOVIA MG 367, KM 583 - N° 5000 - ALTO DA JACUBA - DIAMANTINA/MG	
PROPRIETÁRIO: UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI 16.888.315/0001-57	
TÍTULO: DETALHES VIGAS DO PAVIMENTO SUPERIOR	
AUTOR PROJETO ESTRUTURAL / RT: ANDRÉ FERNANDO DA SILVA CREA 786909 - MG	
DETALHAMENTO: ANDRÉ FERNANDO DA SILVA CREA 786909 - MG	
VERSÃO: VERSÃO 1	DATA: 29.07.2010
AUTOCAD:	FOLHA: 09/20