V1
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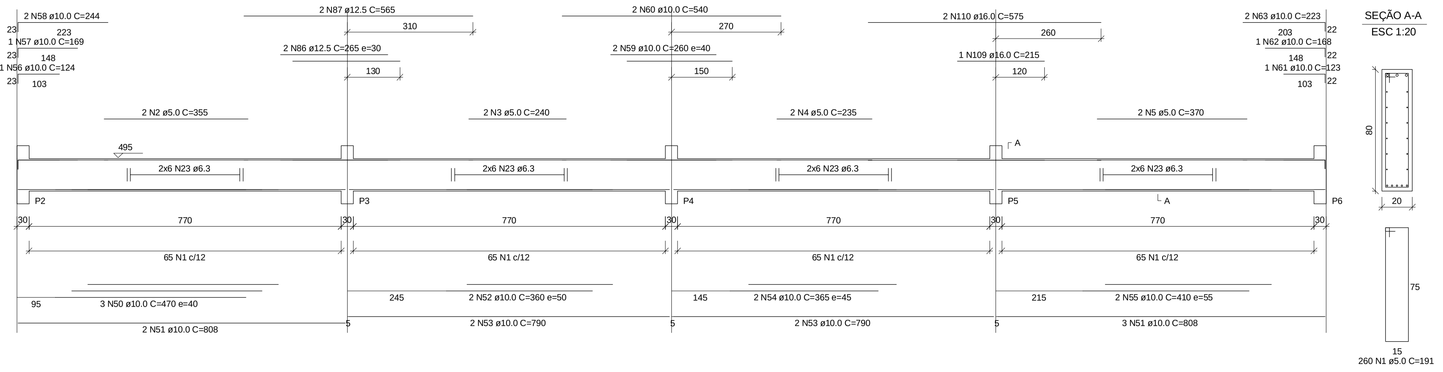

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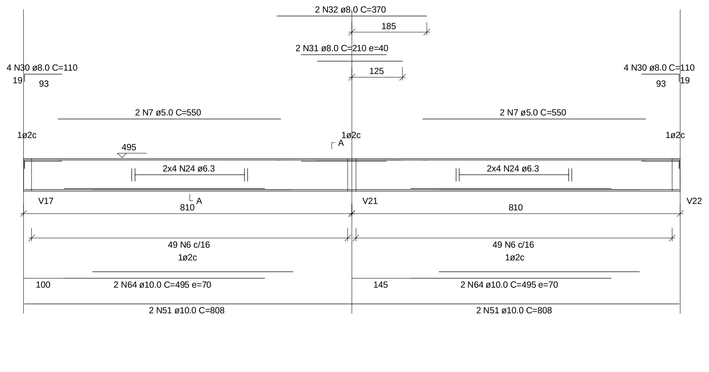

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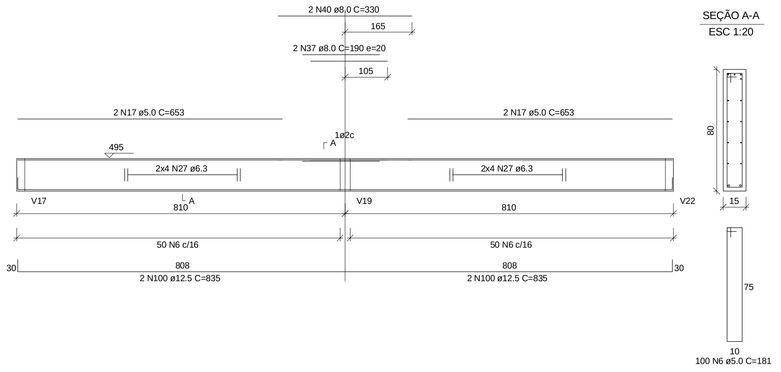


RELAÇÃO DO AÇO

V1	V2	V4	
V5	V6	V7	
V8	V9	V10	
V13	V14	V18	
V19	V20	V21	
V25	V27		

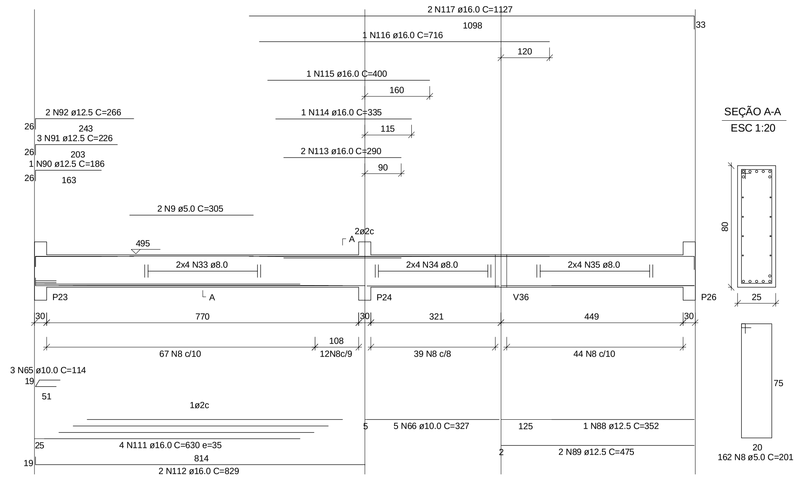
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	5.0	1683	191	321453
	2	5.0	2	355	710
	3	5.0	6	240	1440
	4	5.0	2	235	470
	5	5.0	4	370	1480
	6	5.0	396	181	71676
	7	5.0	4	550	2200
	8	5.0	185	201	37185
	9	5.0	2	305	610
	10	5.0	4	570	2280
	11	5.0	2	280	560
	12	5.0	2	290	580
	13	5.0	2	260	520
	14	5.0	4	250	1000
	15	5.0	2	270	540
	16	5.0	2	255	510
	17	5.0	4	653	2612
	18	5.0	4	613	2452
	19	5.0	2	295	590
	20	5.0	2	220	440
	21	5.0	2	360	720
	22	5.0	40	91	3640
50	23	6.3	180	corr	138600
	24	6.3	32	corr	24960
	25	6.3	16	corr	12800
	26	6.3	120	corr	92160
	27	6.3	16	corr	12768
	28	6.3	24	corr	4656
	29	6.3	12	corr	2700
	30	8.0	8	110	880
	31	8.0	2	210	420
	32	8.0	2	370	740
	33	8.0	8	corr	5160
	34	8.0	8	corr	2456
	35	8.0	8	corr	3480
	36	8.0	8	206	1648
	37	8.0	4	190	760
	38	8.0	2	250	500
	39	8.0	12	101	1212
	40	8.0	2	330	660
	41	8.0	2	230	460
	42	8.0	2	410	820
	43	8.0	8	corr	1800
	44	8.0	1	183	183
	45	8.0	2	354	708
	46	8.0	1	126	126
	47	8.0	2	389	778
	48	8.0	3	205	615
	49	8.0	3	229	687
	50	10.0	3	470	1410
	51	10.0	15	808	12120
	52	10.0	2	360	720
	53	10.0	18	790	14220
	54	10.0	2	365	730
	55	10.0	2	410	820
	56	10.0	1	124	124
	57	10.0	1	169	169
	58	10.0	2	244	488
	59	10.0	4	260	1040
	60	10.0	4	540	2160
	61	10.0	1	123	123
	62	10.0	1	168	168
	63	10.0	2	223	446
	64	10.0	4	495	1980
	65	10.0	6	114	684
	66	10.0	5	327	1635
	67	10.0	1	669	669
	68	10.0	2	744	1488
	69	10.0	4	842	3368
	70	10.0	1	674	674
	71	10.0	21	109	2289
	72	10.0	6	330	1980
	73	10.0	2	325	650
	74	10.0	1	440	440
	75	10.0	1	430	430
	76	10.0	2	385	770
	77	10.0	2	375	750
	78	10.0	2	345	690
	79	10.0	3	465	1395
	80	10.0	1	122	122
	81	10.0	1	157	157
	82	10.0	2	203	406
	83	10.0	2	170	340
	84	10.0	2	245	490
	85	10.0	4	247	988
	86	12.5	2	265	530
	87	12.5	6	565	3390
	88	12.5	1	352	352
	89	12.5	2	475	950
	90	12.5	1	186	186
	91	12.5	3	226	678
	92	12.5	2	266	532
	93	12.5	2	820	2460
	94	12.5	3	545	1635
	95	12.5	6	793	4758
	96	12.5	9	540	4860
	97	12.5	2	215	430
	98	12.5	2	265	530
	99	12.5	2	795	1590
	100	12.5	4	835	3340
	101	12.5	1	435	435
	102	12.5	2	810	1620
	103	12.5	1	220	220
	104	12.5	2	560	1120
	105	12.5	2	270	540
	106	12.5	2	580	1160
	107	12.5	3	250	750
	108	12.5	3	287	861
	109	16.0	1	215	215
	110	16.0	6	575	3450
	111	16.0	4	630	2520
	112	16.0	4	829	3316
	113	16.0	2	290	580
	114	16.0	3	335	1005
	115	16.0	1	400	400
	116	16.0	1	716	716
	117	16.0	2	1127	2254
	118	16.0	6	535	3210
	119	16.0	2	703	1406
	120	16.0	12	826	9912
	121	16.0	1	235	235
	122	16.0	2	280	560
	123	16.0	6	475	2850
	124	16.0	2	325	650
	125	16.0	2	315	630
	126	16.0	18	485	8730
	127	16.0	10	1200	12000
	128	16.0	1	413	413
	129	16.0	1	1121	1121
	130	16.0	1	1127	1127
	131	16.0	2	259	478
	132	16.0	4	264	1056
	133	16.0	4	566	2260
	134	16.0	2	570	1140
	135	16.0	1	217	217
	136	16.0	2	267	534
	137	16.0	2	675	1350
	138	16.0	1	227	227
	139	16.0	2	272	544
	140	16.0	1	222	222
	141	16.0	2	267	534
	142	16.0	5	520	2600
	143	16.0	2	700	1400
	144	16.0	1	223	223
	145	16.0	2	273	546
	146	16.0	5	470	2350
	147	16.0	2	345	690
	148	16.0	1	472	472
	149	16.0	1	1117	1117
	150	16.0	1	555	555
	151	16.0	1	235	235
	152	16.0	1	231	231
	153	16.0	4	322	1288
	154	16.0	1	198	198
	155	16.0	1	238	238
	156	16.0	1	263	263
	157	16.0	3	352	1056
	158	16.0	2	288	576
	159	16.0	1	248	248
	160	16.0	1	273	273
	161	16.0	4	355	1420
	162	16.0	1	232	232
	163	16.0	4	325	1300

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	6.3	2886.4	778.2
	8.0	250.9	109.1
	10.0	571.1	387.4
	12.5	329.3	349.2
	16.0	827.5	1438.0
CA60	5.0	4548.1	770.3
PESO TOTAL			
CA50	3061.9		
CA60	770.3		

Vol. de concreto total (C-25) =45.3 m³
Área de forma total = 528.75 m²

V4
1:75



V5
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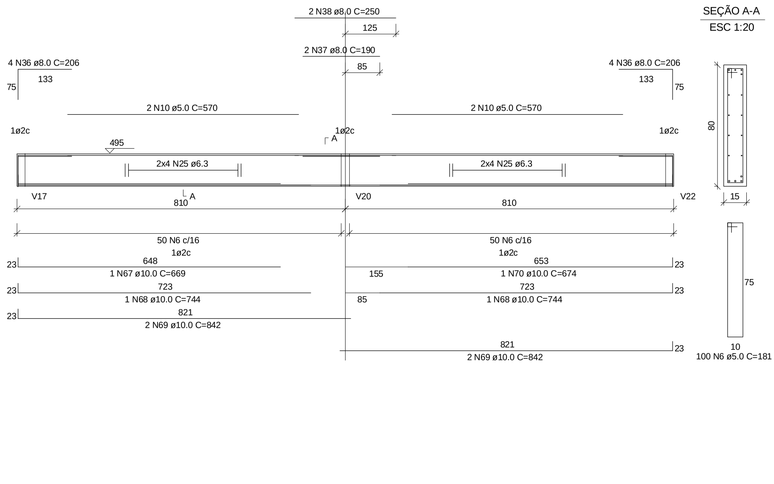

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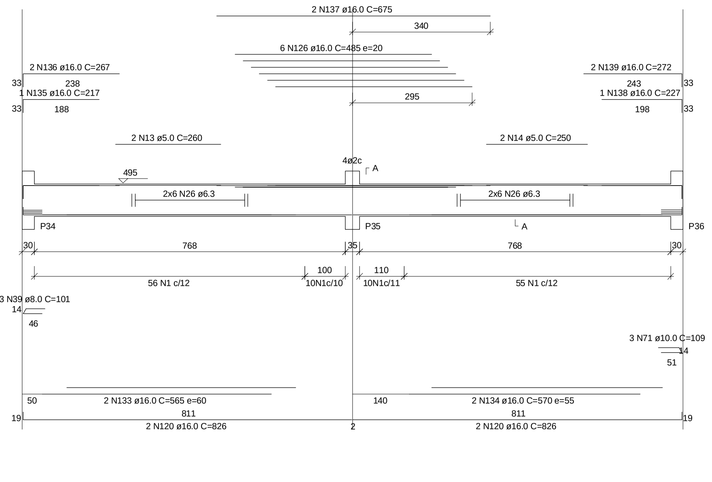

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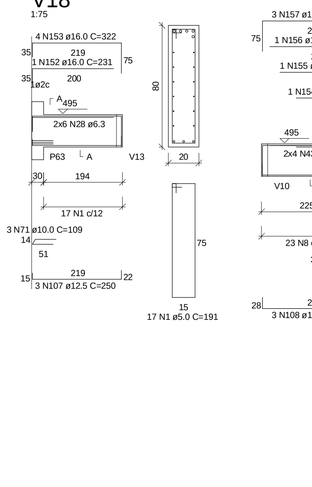

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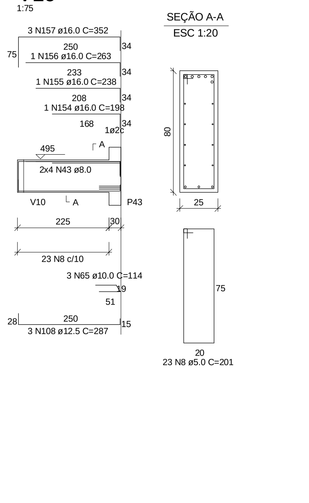

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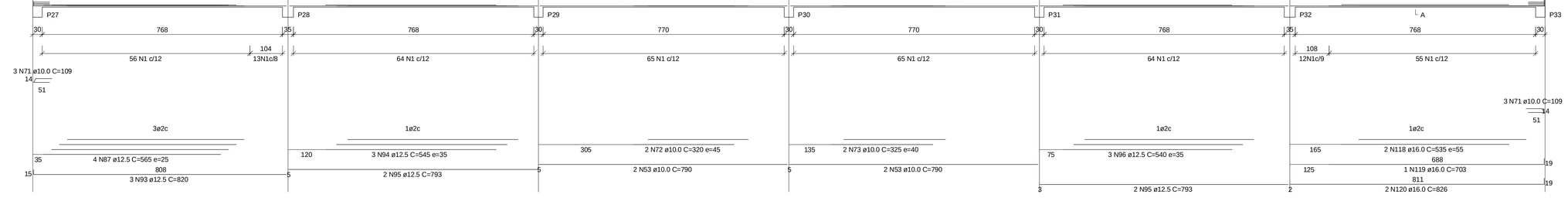

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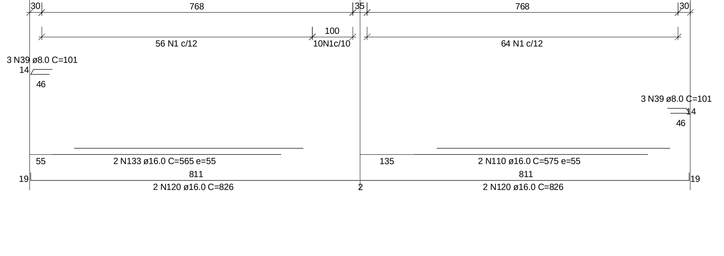

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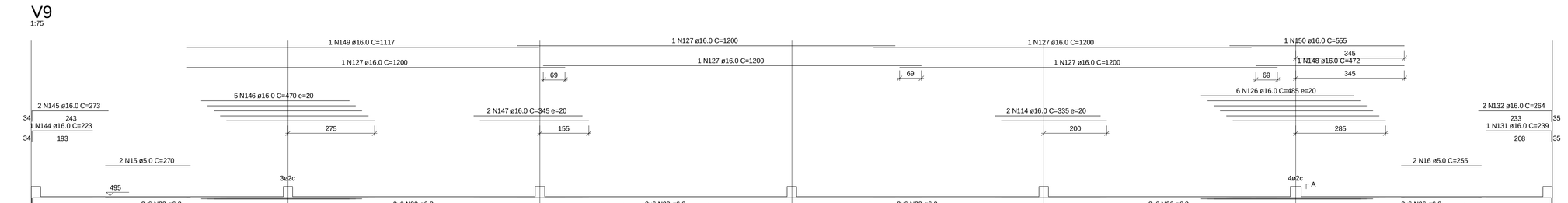

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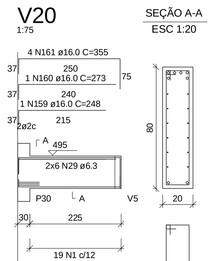

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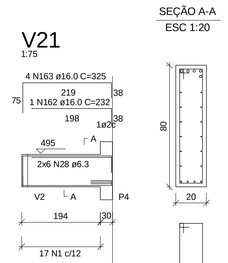

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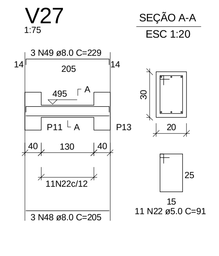

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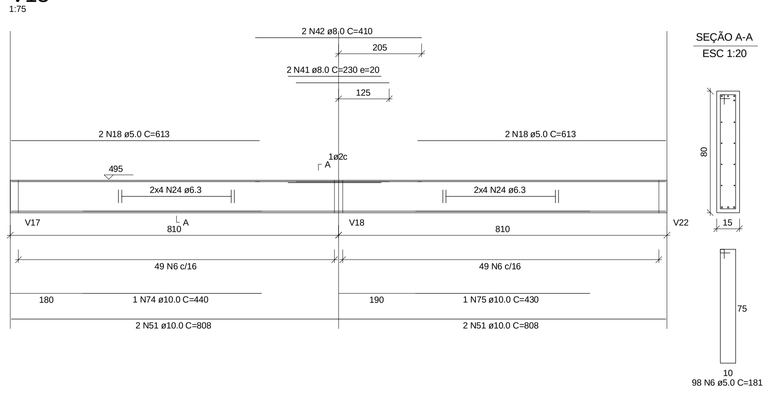

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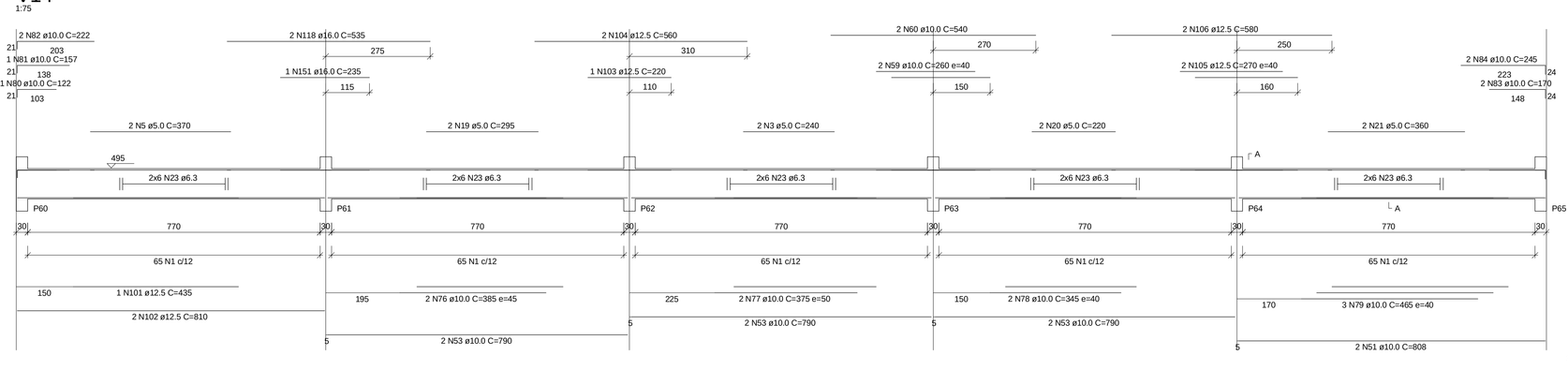

V25
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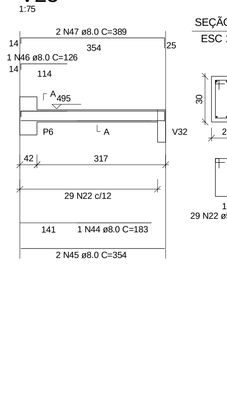

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	ARQº MARCELO CORREA PIRES	67920/D	22/03/2010
	RESPONSÁVEL TÉCNICO	CREA	DATA / CONFERIDO
	ENGº ANDRÉ FERNANDO DA SILVA	78499/D	22/03/2010
	SITIO: BIBLIOTECA		
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