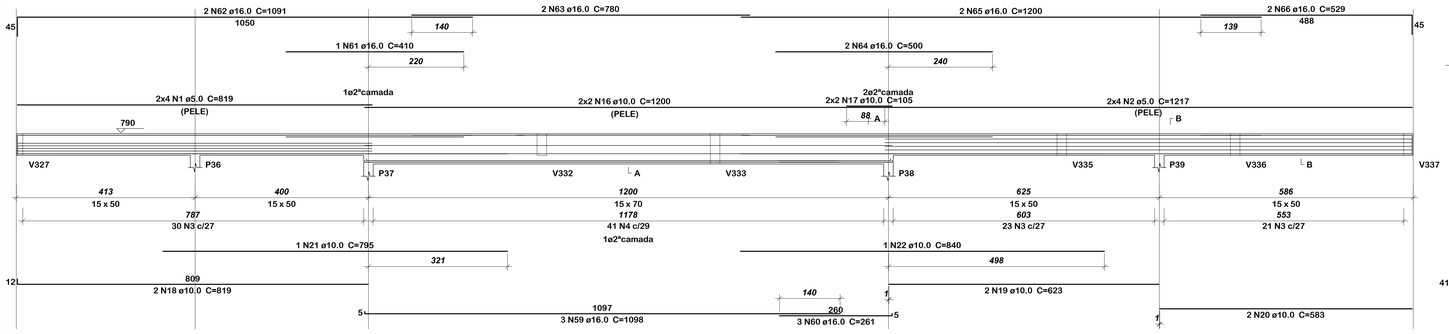
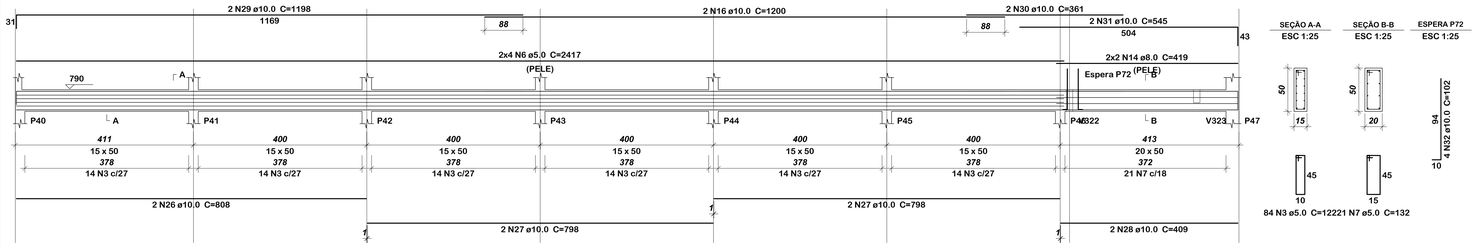
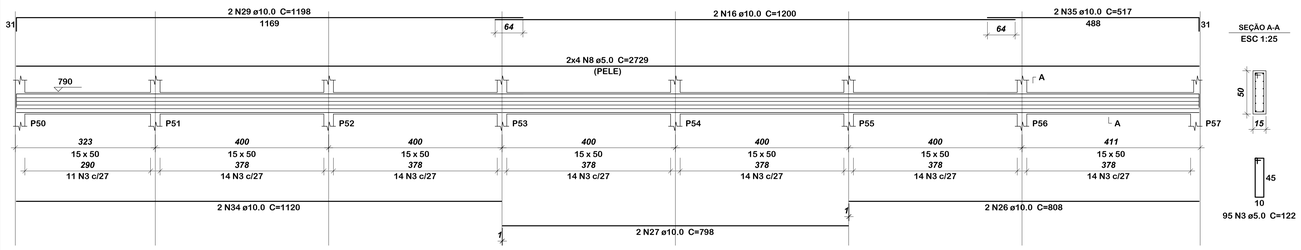
V306 (var)
ESC 1:50



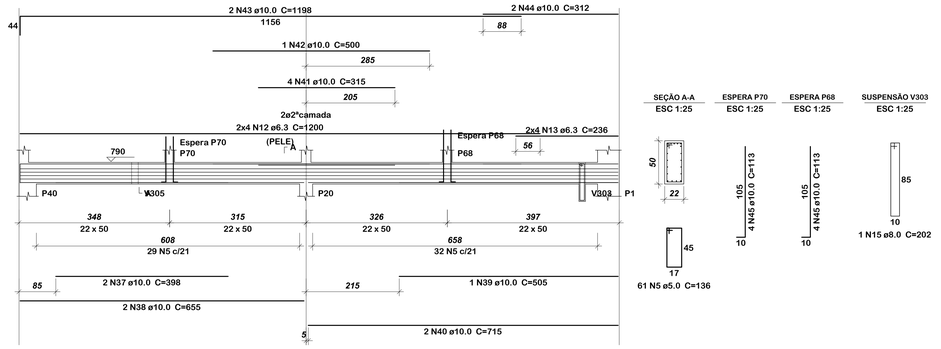
V307 (var)
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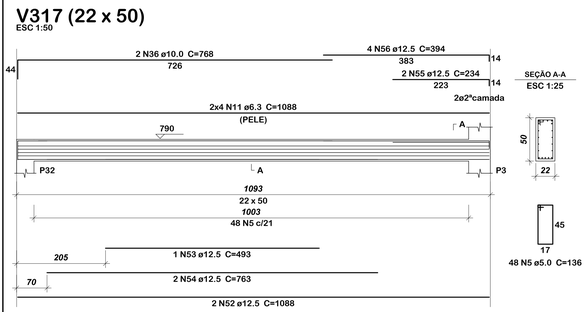
V309 (15 x 50)
ESC 1:50



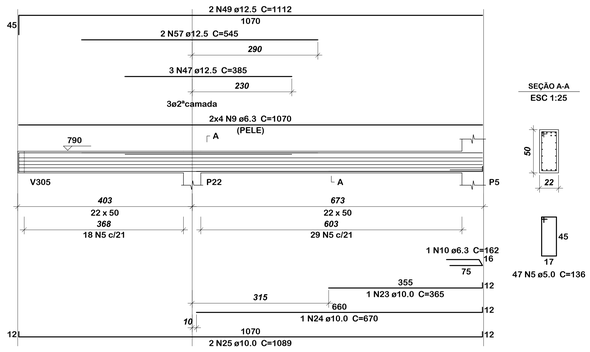
V315 (22 x 50)
ESC 1:50



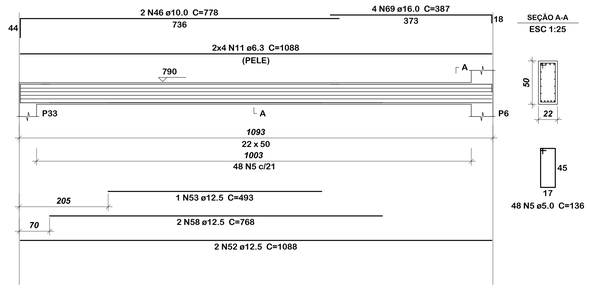
V317 (22 x 50)
ESC 1:50



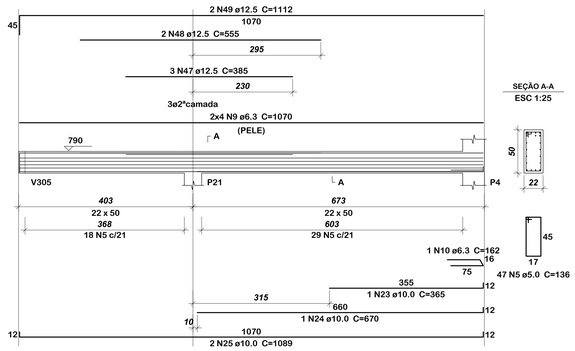
V319 (22 x 50)
ESC 1:50



V320 (22 x 50)
ESC 1:50



V318 (22 x 50)
ESC 1:50



Relação do aço

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	8	819	6552
	2	5.0	8	1217	9736
	3	5.0	253	122	30866
	4	5.0	41	162	6642
	5	5.0	299	136	40664
	6	5.0	8	2417	19336
	7	5.0	21	132	2772
	8	5.0	8	2729	21832
CA50	9	6.3	16	1070	17120
	10	6.3	2	162	324
	11	6.3	24	1088	26112
	12	6.3	8	1200	9600
	13	6.3	8	236	1888
	14	8.0	4	419	1676
	15	8.0	1	202	202
	16	10.0	8	1200	9600
	17	10.0	4	105	420
	18	10.0	2	819	1638
	19	10.0	2	623	1246
	20	10.0	2	583	1166
	21	10.0	1	795	795
	22	10.0	1	840	840
	23	10.0	2	365	730
	24	10.0	2	670	1340
	25	10.0	4	1089	4356
	26	10.0	4	808	3232
	27	10.0	6	798	4788
	28	10.0	2	409	818
	29	10.0	4	1198	4792
	30	10.0	2	361	722
	31	10.0	2	545	1090
	32	10.0	4	102	408
	33	10.0	2	743	1486
	34	10.0	2	1120	2240
	35	10.0	2	517	1034
	36	10.0	2	768	1536
	37	10.0	2	398	796
	38	10.0	2	655	1310
	39	10.0	1	505	505
	40	10.0	2	715	1430
	41	10.0	4	315	1260
	42	10.0	1	500	500
	43	10.0	2	1198	2396
	44	10.0	2	312	624
	45	10.0	8	113	904
	46	10.0	2	778	1556
	47	12.5	6	385	2310
	48	12.5	2	555	1110
	49	12.5	4	1112	4448
	50	12.5	1	463	463
	51	12.5	2	713	1426
	52	12.5	7	1088	7616
	53	12.5	2	493	986
	54	12.5	2	763	1526
	55	12.5	2	234	468
	56	12.5	4	394	1576
	57	12.5	2	545	1090
	58	12.5	2	768	1536
	59	16.0	3	1098	3294
	60	16.0	3	261	783
	61	16.0	1	410	410
	62	16.0	2	1091	2182
	63	16.0	2	780	1560
	64	16.0	2	500	1000
	65	16.0	2	1200	2400
	66	16.0	2	529	1058
	67	16.0	1	237	237
	68	16.0	4	422	1688
	69	16.0	4	387	1548

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	550.5	134.7
	8.0	18.8	7.4
	10.0	555.6	342.5
	12.5	245.6	236.5
	16.0	161.6	255.1
CA60	5.0	1384	213.3
PESO TOTAL (kg)			
CA50	976.2		
CA60	213.3		

Volume de concreto (C-20) = 14.54 m³
Área de forma = 189.12 m²

V306 V307 V309
V315 V316 V317
V318 V319 V320

MINISTÉRIO DA EDUCAÇÃO
UNIVERSIDADE FEDERAL DE LAVRAS

EMPRESA:
AS BUILT ENGENHARIA DE PROJETOS LTDA
CNPJ: 09.480.531/0001-01

TÍTULO:
PROJETO ESTRUTURAL
DBI

CONTEÚDO:
FERRAGEM DAS VIGAS:
COBERTURA (2/3)

AUTOR DO PROJETO:
CARLOS HENRIQUE DE SOUZA GONÇALVES
ENGENHEIRO CIVIL - CREA-PR.78520

EXECUÇÃO DE OBRA:

DATA:	REVISÃO DATA:	PROJETO:
12/2014	-	EXECUTIVO
ESCALA:	ÁREA: (m²)	FOLHA:
INDICADA	1.859,96	EST 17 /20