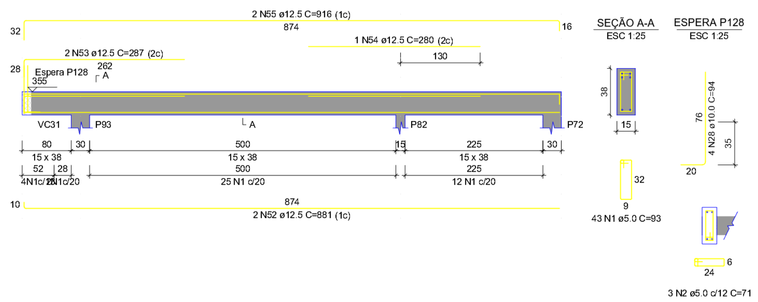
VC41
ESC 1:50



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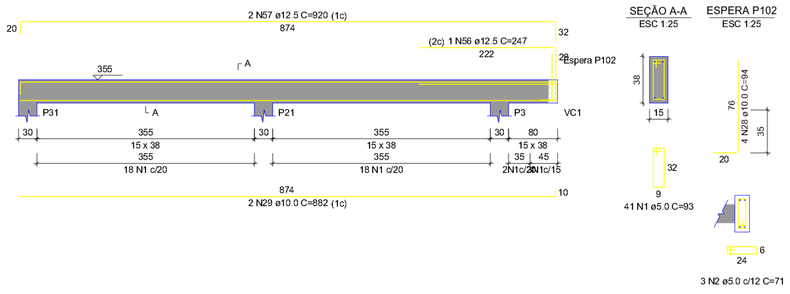
ESC 1:50



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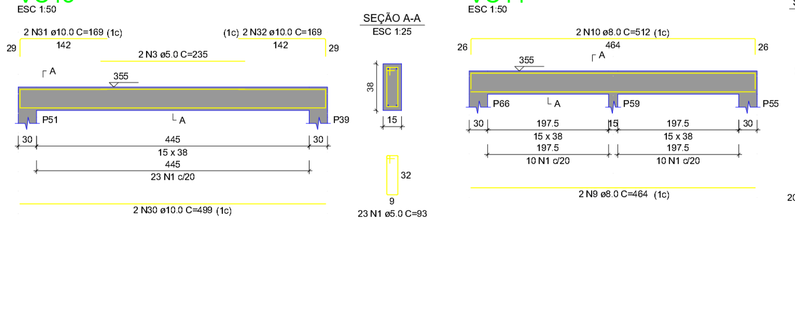
ESC 1:50



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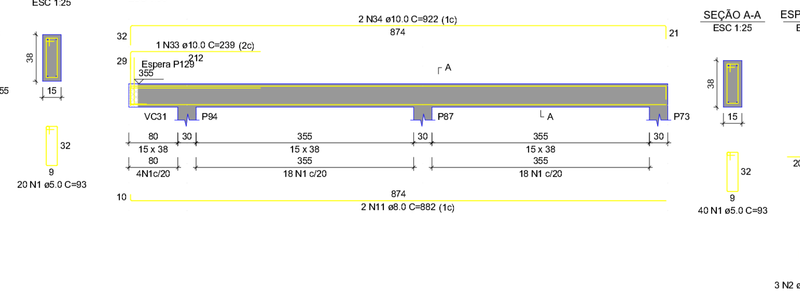
ESC 1:50



VC45
ESC 1:50

RELAÇÃO DO AÇO

VC41		VC42		VC43	
VC44		VC45		VC46	
VC47		VC48		VC49	
VC50		VC51		VC52	
VC53		VC54		VC55	
VC56		VC57		VC58	
VC59		VC60		VC61	
VC62		VC63		VC64	
VC65					

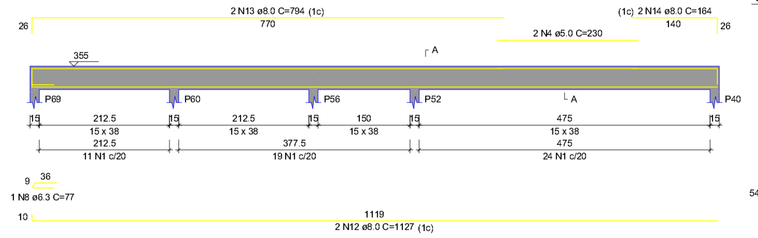
AÇO	N	D(MM) (mm)	QUANT.	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	979	93	91047
	2	5.0	63	71	4473
	3	5.0	2	235	470
	4	5.0	2	230	460
	5	5.0	2	273	546
	6	5.0	94	95	8930
	7	5.0	12	21	252
CA50	8	6.3	1	77	77
	9	8.0	2	464	928
	10	8.0	2	512	1024
	11	8.0	8	882	7056
	12	8.0	2	1127	2254
	13	8.0	2	794	1588
	14	8.0	2	164	328
	15	8.0	2	181	362
	16	8.0	2	279	558
	17	8.0	2	327	654
	18	8.0	4	375	1500
	19	8.0	2	532	1064
	20	8.0	2	578	1156
	21	8.0	2	524	1048
	22	8.0	2	572	1144
	23	8.0	4	1152	4608
	24	8.0	1	223	223
	25	8.0	2	750	1500
	26	8.0	1	88	88
	27	8.0	2	680	1360
	28	10.0	100	94	9400
	29	10.0	2	882	1764
	30	10.0	2	499	998
	31	10.0	2	169	338
	32	10.0	2	169	338
	33	10.0	2	239	478
	34	10.0	2	922	1844
	35	10.0	1	924	924
	36	10.0	2	498	996
	37	10.0	2	492	984
	38	10.0	1	215	215
	39	10.0	1	189	189
	40	10.0	2	1191	2382
	41	10.0	2	1152	2304
	42	10.0	2	727	1454
	43	10.0	2	1080	2160
	44	10.0	4	365	1460
	45	10.0	2	1150	2300
	46	10.0	2	287	574
	47	10.0	2	1199	2398
	48	10.0	2	332	664
	49	10.0	2	1072	2144
	50	10.0	2	1198	2396
	51	10.0	2	332	664
	52	12.5	6	881	5286
	53	12.5	6	287	1722
	54	12.5	3	280	840
	55	12.5	8	916	7328
	56	12.5	1	247	247
	57	12.5	2	920	1840
	58	12.5	2	417	834
	59	12.5	2	401	802
	60	12.5	1	227	227
	61	12.5	2	1186	2372
	62	12.5	2	694	1388
	63	12.5	1	218	218
	64	12.5	1	220	220
	65	12.5	2	768	1536
	66	12.5	1	270	270
	67	12.5	1	232	232
	68	12.5	2	1180	2360
	69	12.5	1	410	410
	70	12.5	2	714	1428
	71	12.5	2	185	370
	72	12.5	4	1198	4792
	73	12.5	2	374	748
	74	12.5	2	372	744

RESUMO DO AÇO

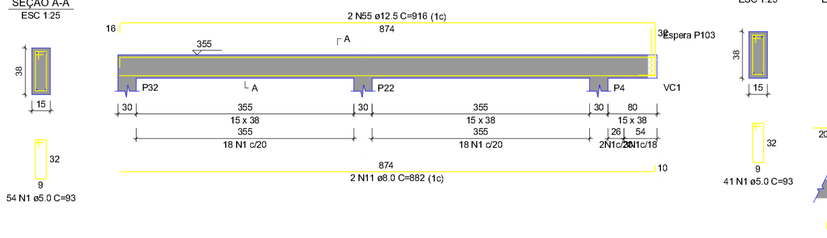
AÇO	D(MM) (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	0.8	0.2
	8.0	264.4	123.5
	10.0	395	267.9
	12.5	392.1	383.8
CA60	5.0	1061.8	180
PESO TOTAL (kg)			
CA50	775.3		
CA60	180		

Volume de concreto (C-25) = 11.48 m³
Área de forma = 131.99 m²

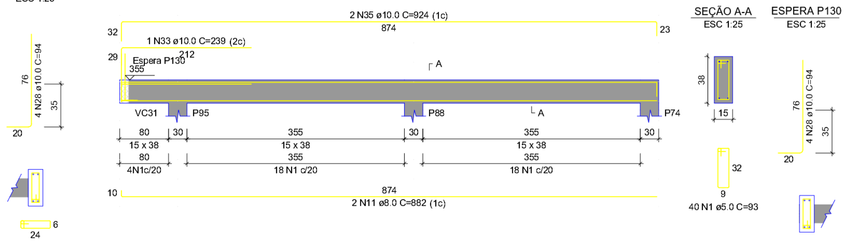
VC46
ESC 1:50



VC47
ESC 1:50



VC48
ESC 1:50



VC49
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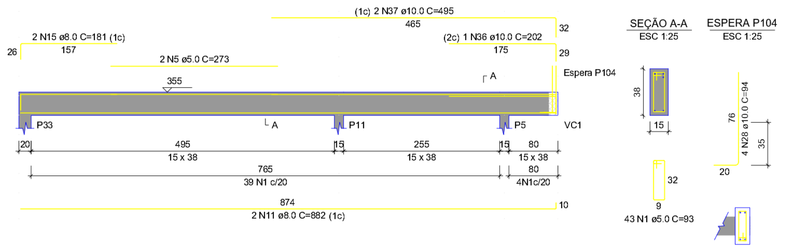
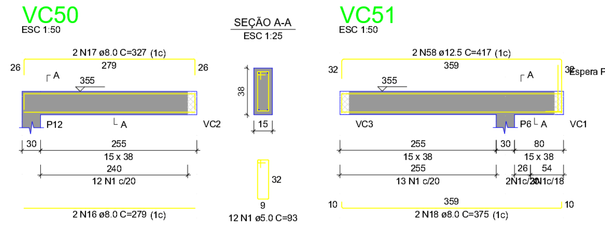


VC50
ESC 1:50



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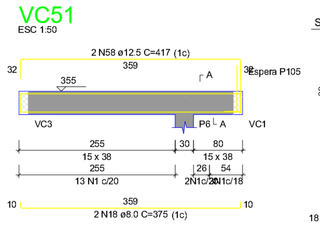

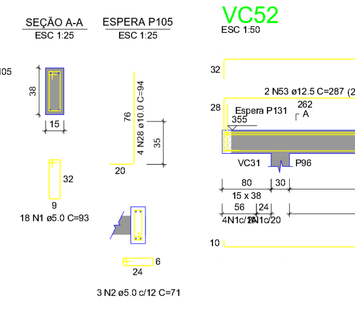

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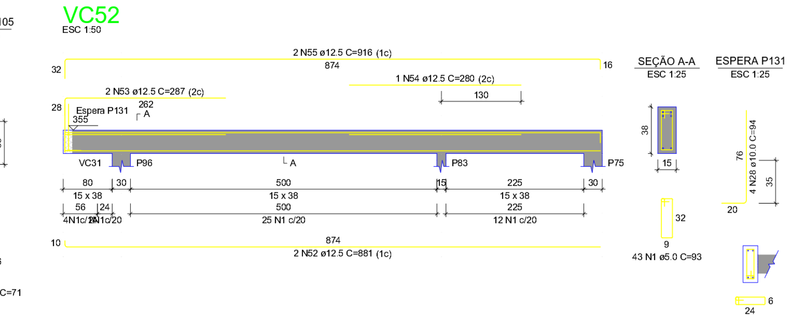

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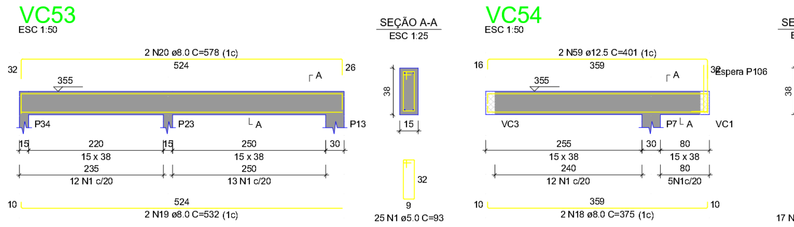
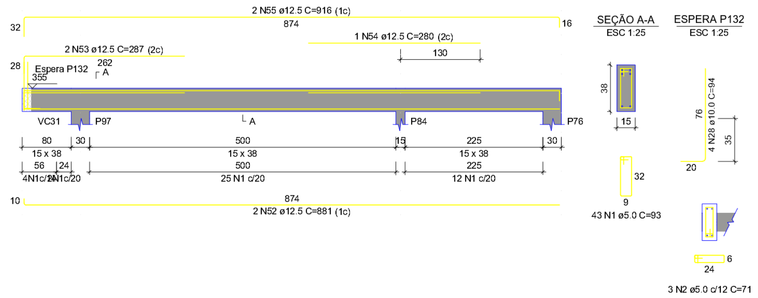
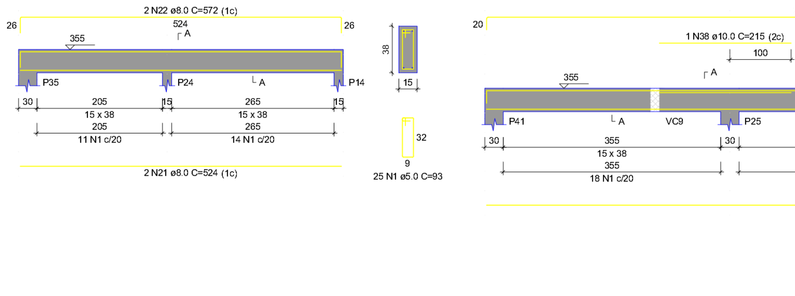


VC54
ESC 1:50

VC55
ESC 1:50



VC56
ESC 1:50



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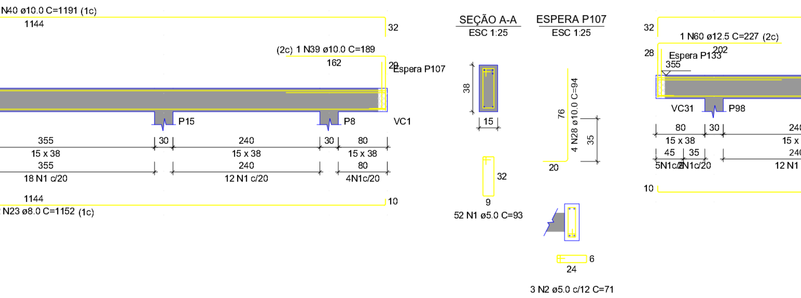

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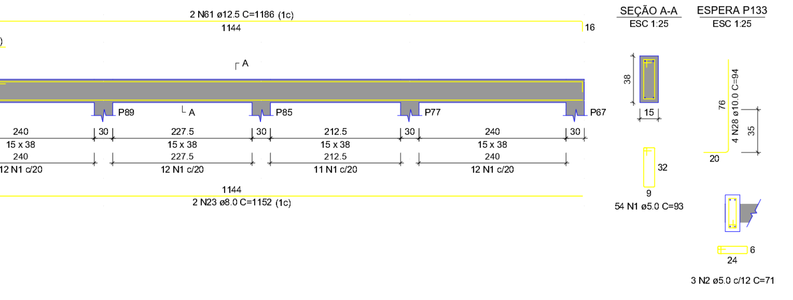

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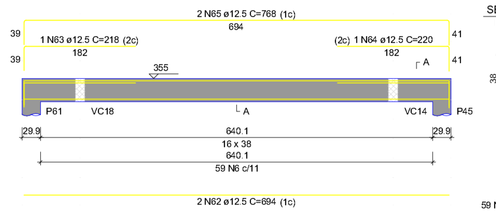

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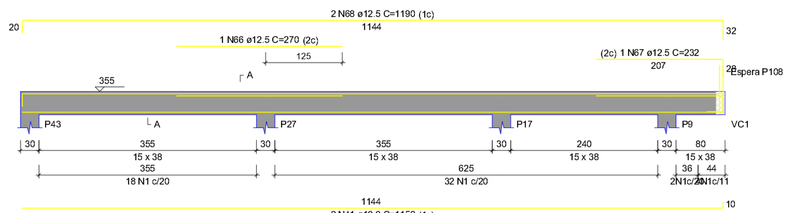

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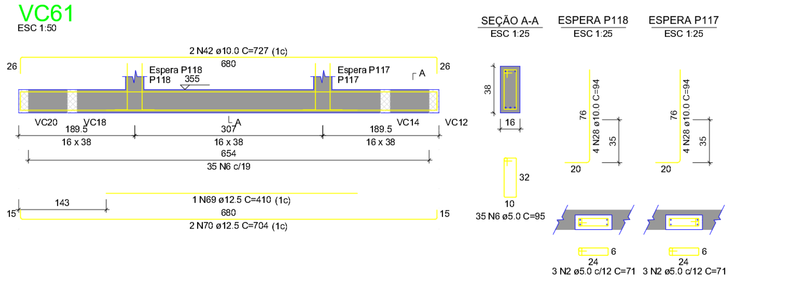

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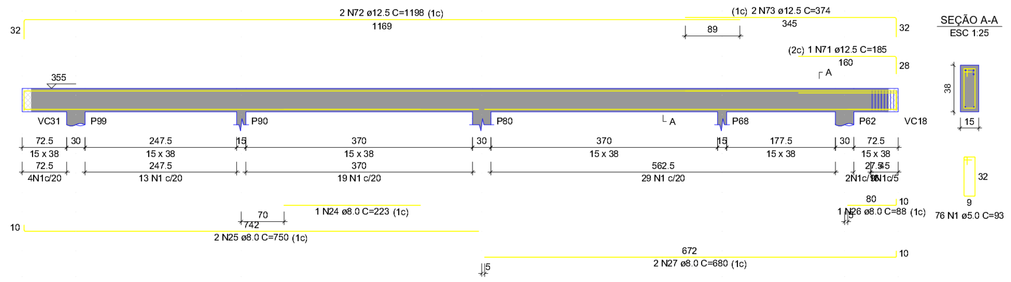

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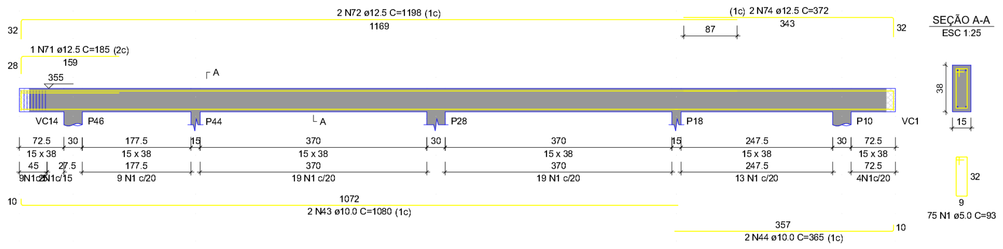

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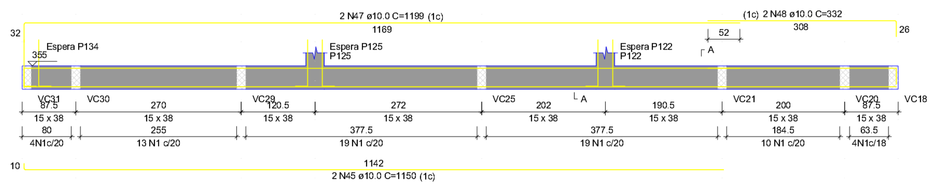

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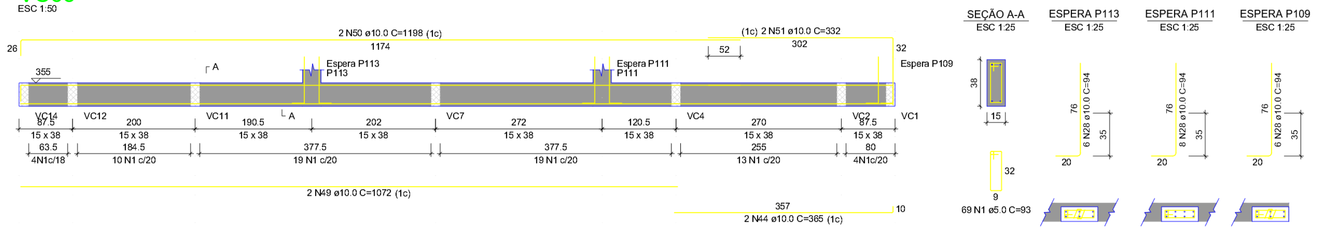

SECRETARIA MUNICIPAL DA EDUCAÇÃO
PREFEITURA MUNICIPAL DE PALMAS

OBRA: INSTITUCIONAL

Prancha 13/22

PROJETO ESTRUTURAL

OBRA: CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL JARDIM LAILA

PROPRIETÁRIO: PREFEITURA MUNICIPAL DE PALMAS

LOCAL: AP.M 16, AVENIDA REPÚBLICA DO LÍBANO, LOTEAMENTO JARDIM LAILA CIDADE: PALMAS/TO

ÁREAS

CONTEÚDO: VIGAS COBERTURA

PROPRIETÁRIO :	ASS.
	PREFEITURA MUNICIPAL DE PALMAS
RESPONSÁVEL TÉCNICO : ENGENHEIRO CIVIL	ASS.
CREA: 303580 / D - TO	Eng°. Jhonnath de Souza Branquinho
	ASS.
SECRETARIA MUNICIPAL DA EDUCAÇÃO	ASS.
DATA : AGOSTO/ 2025	N. / REVISÃO / DES. / APROV. / DATA
ESCALA : INDICADA	
DESENHO :	
VISTO :	N. DES. :

LEI Nº 14.063, DE 23 DE SETEMBRO DE 2020
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