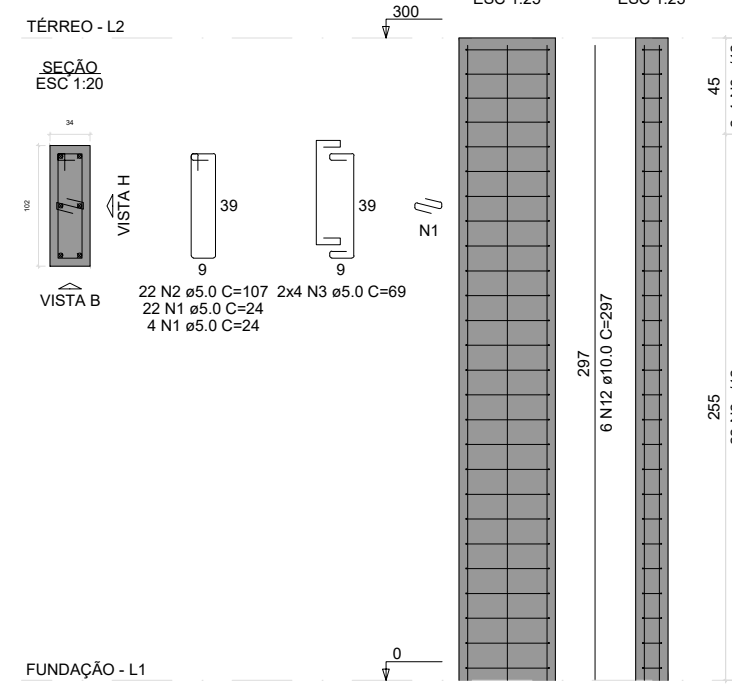
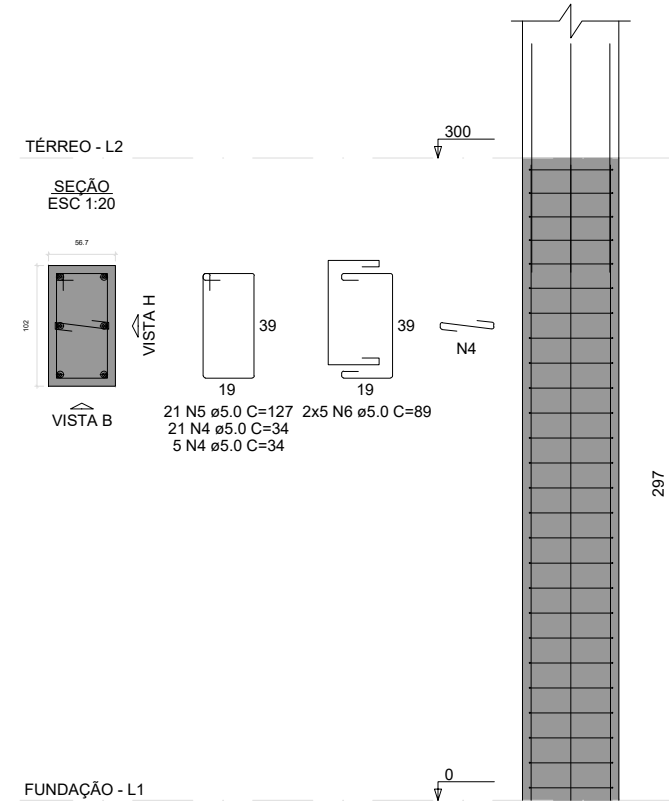


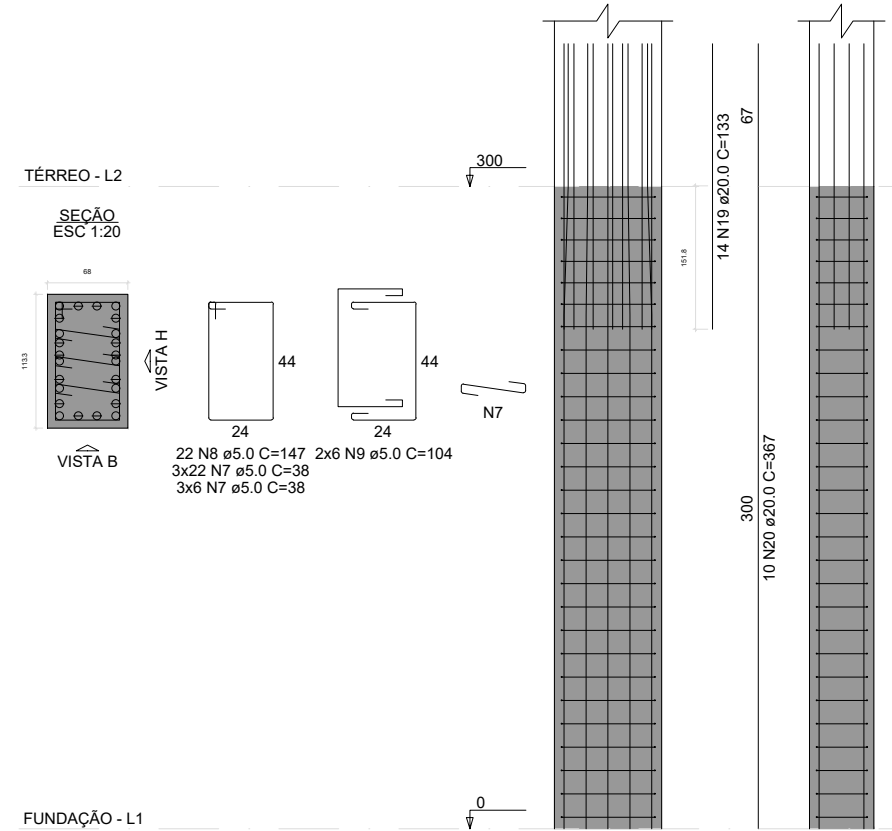
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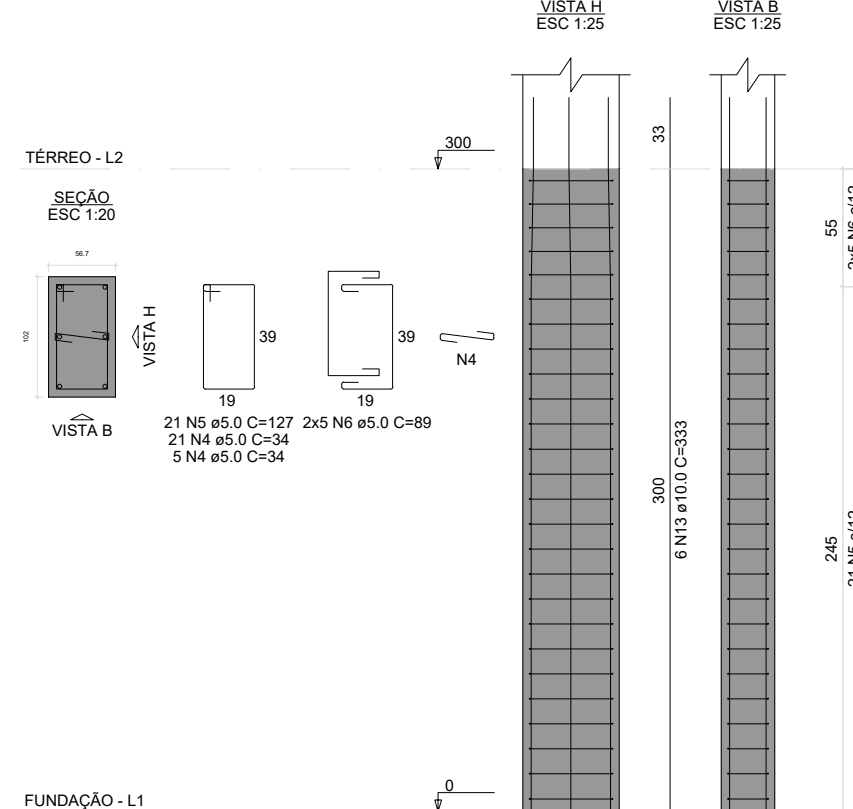
P3



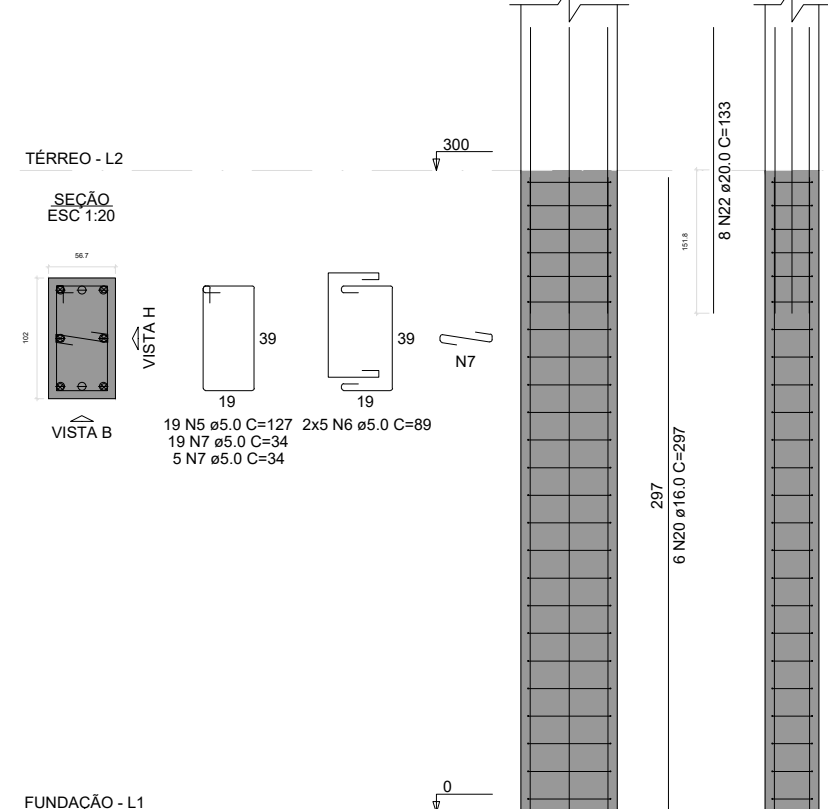
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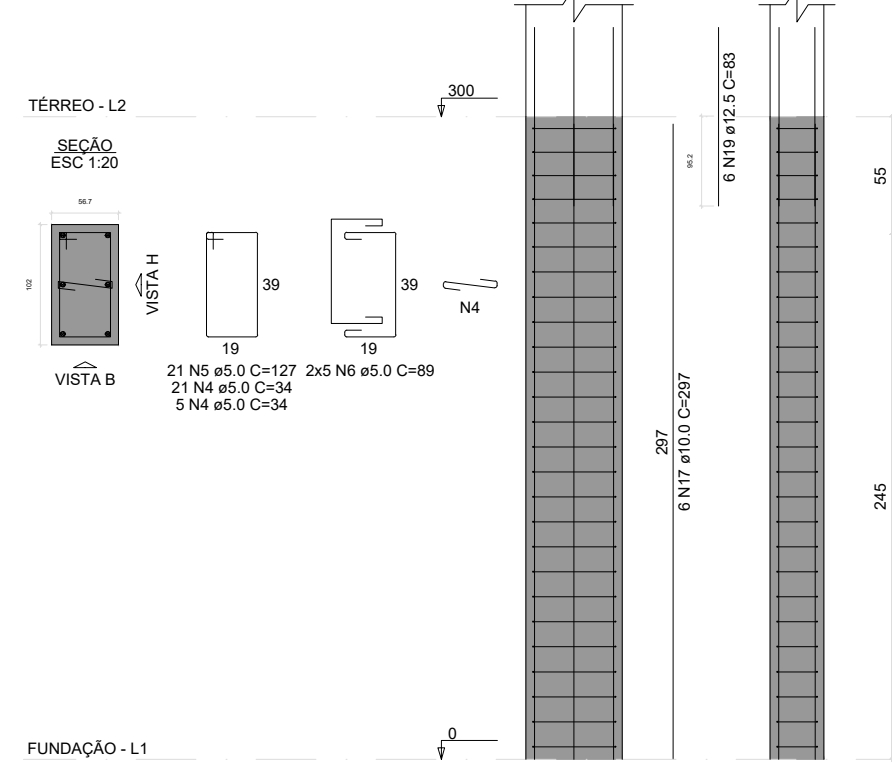
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=P40=P41=P42=P43=P51=P52



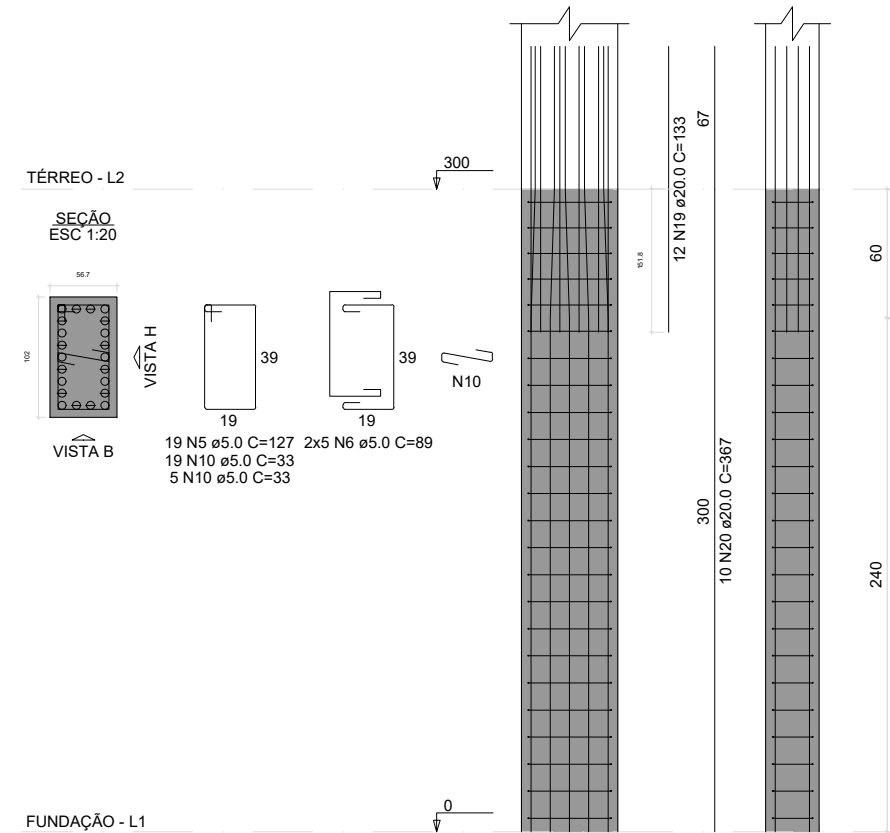
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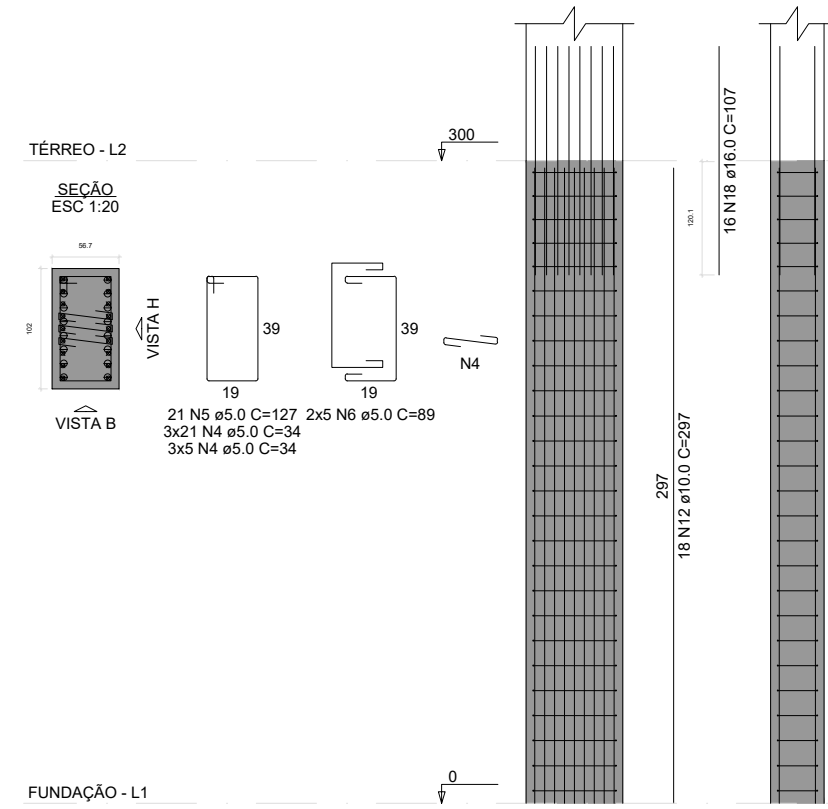
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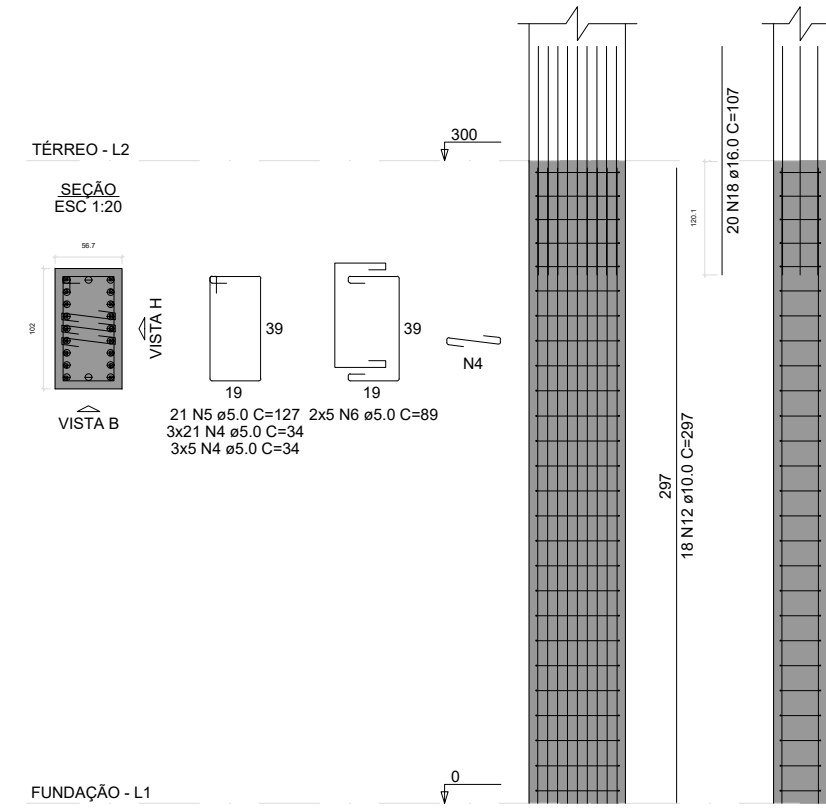
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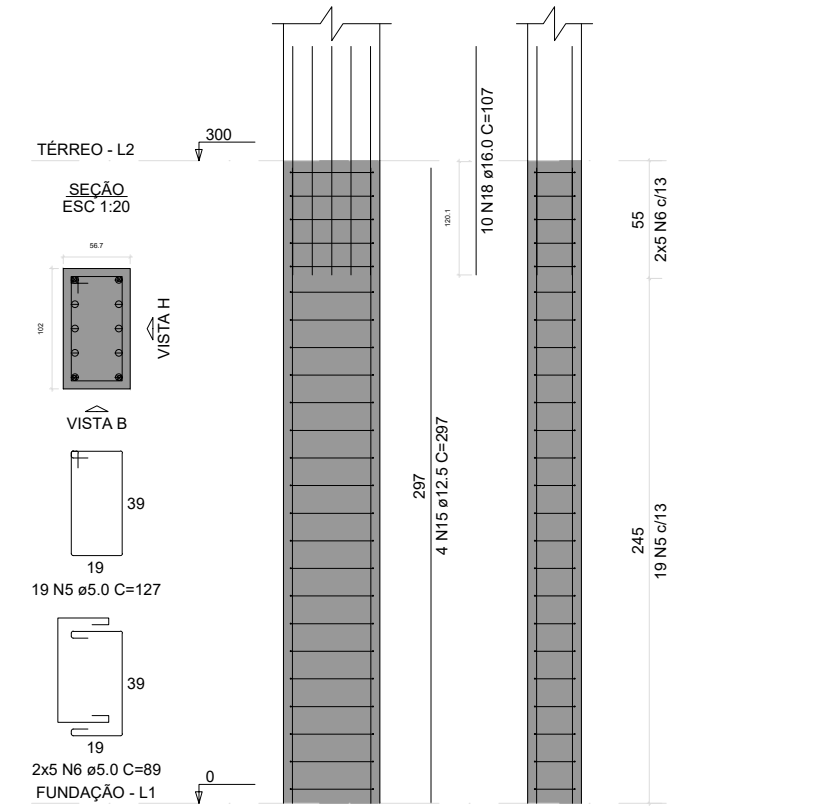
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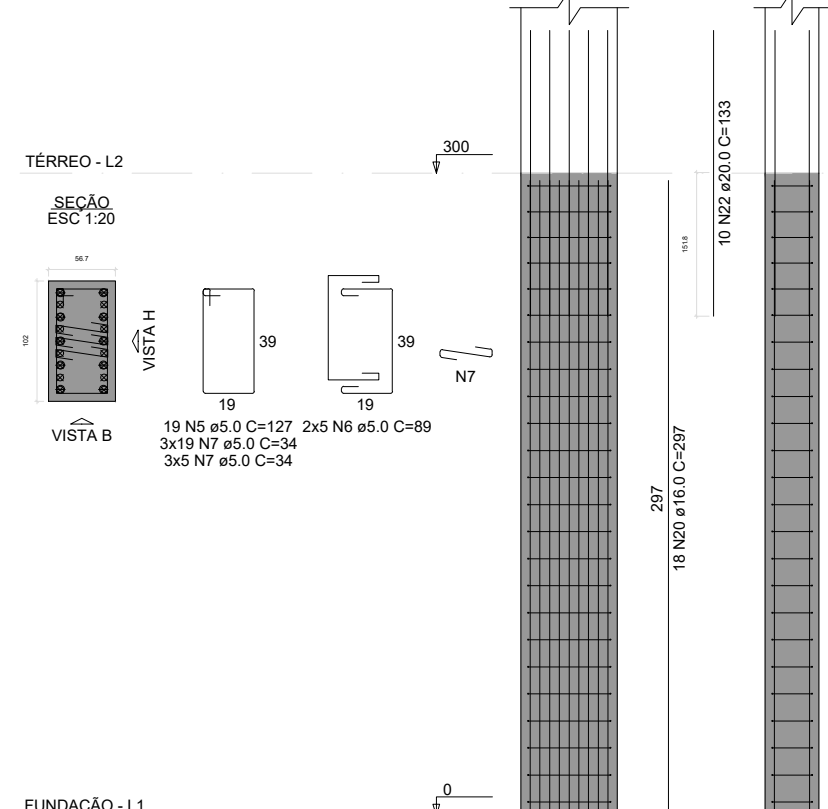
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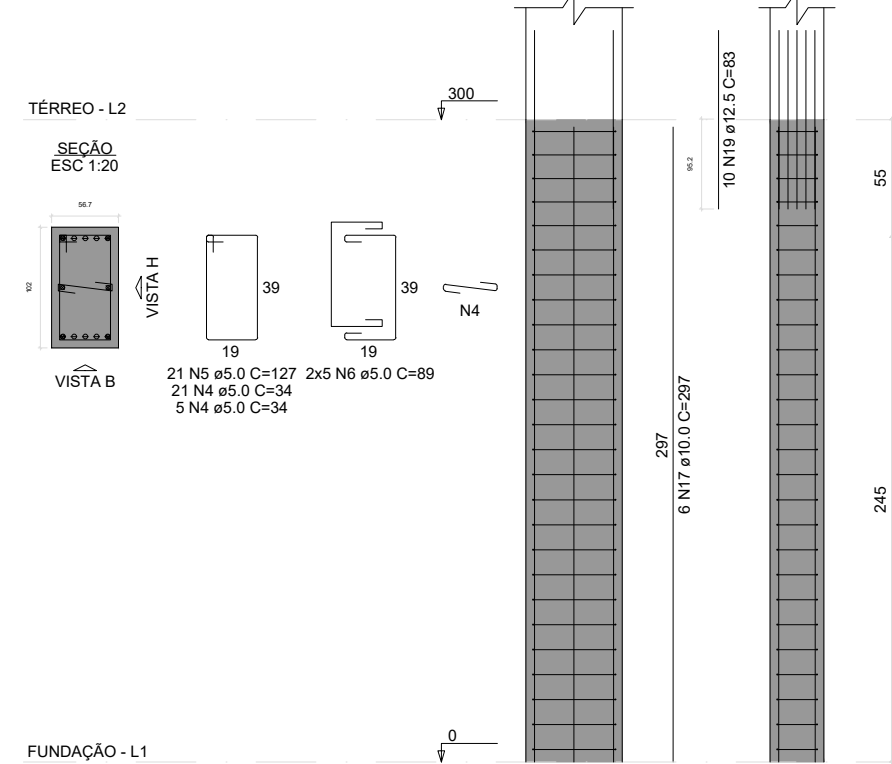
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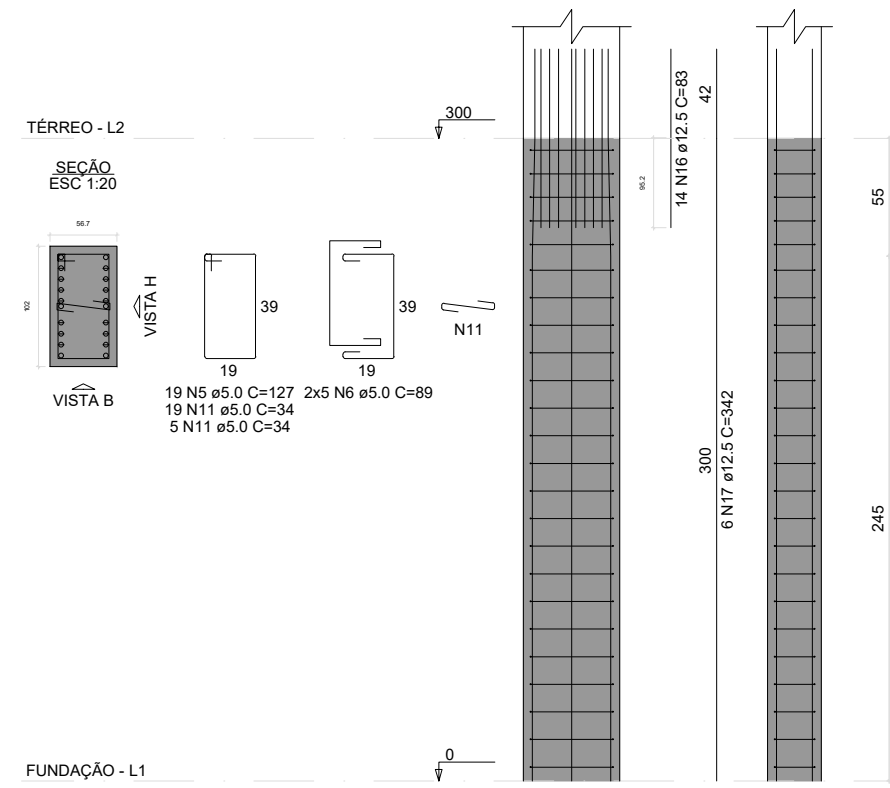
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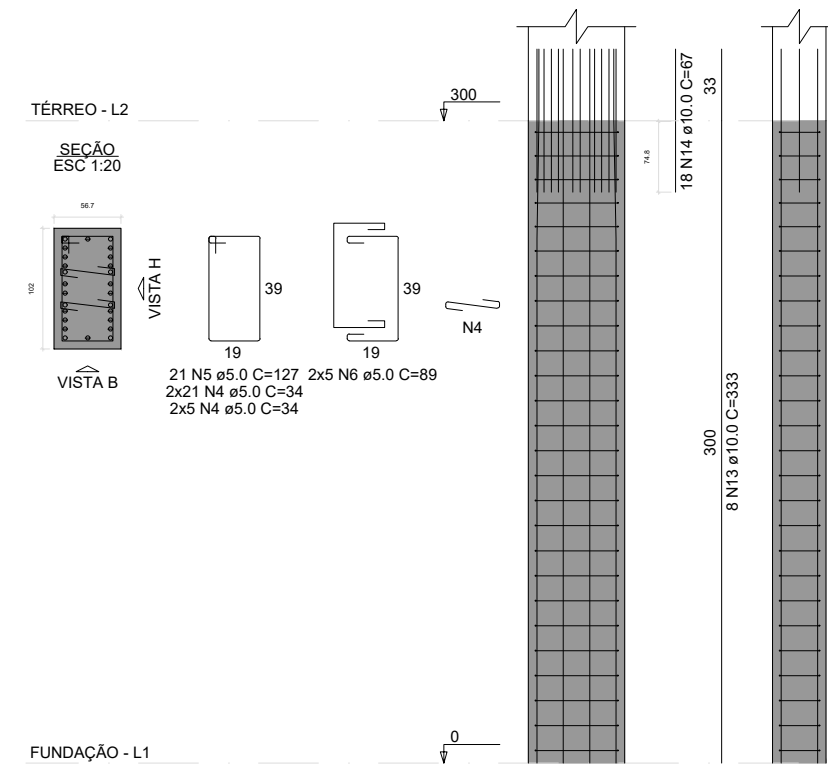
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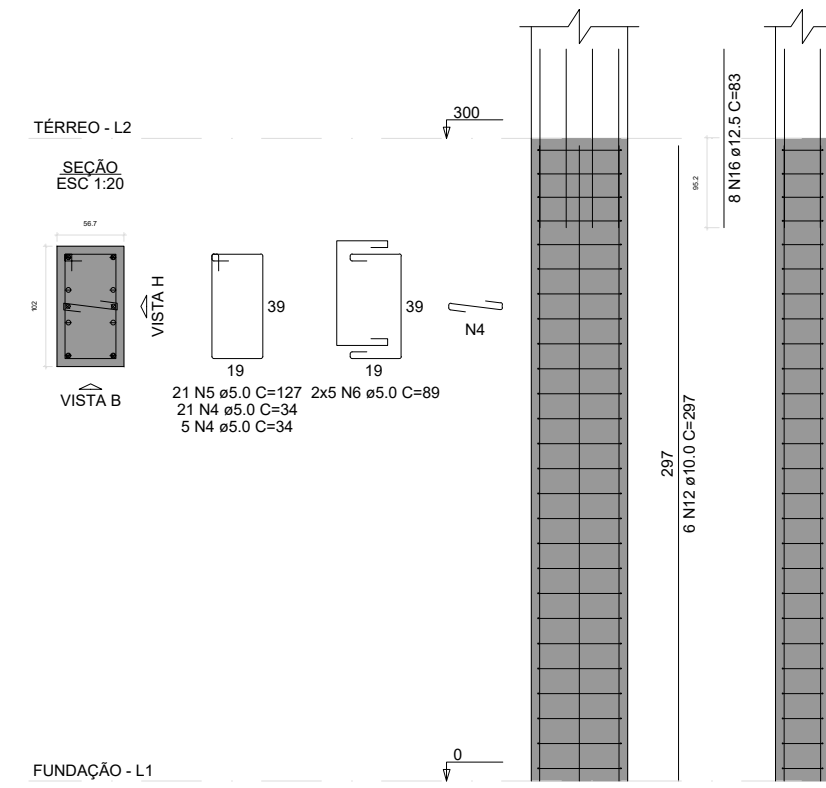
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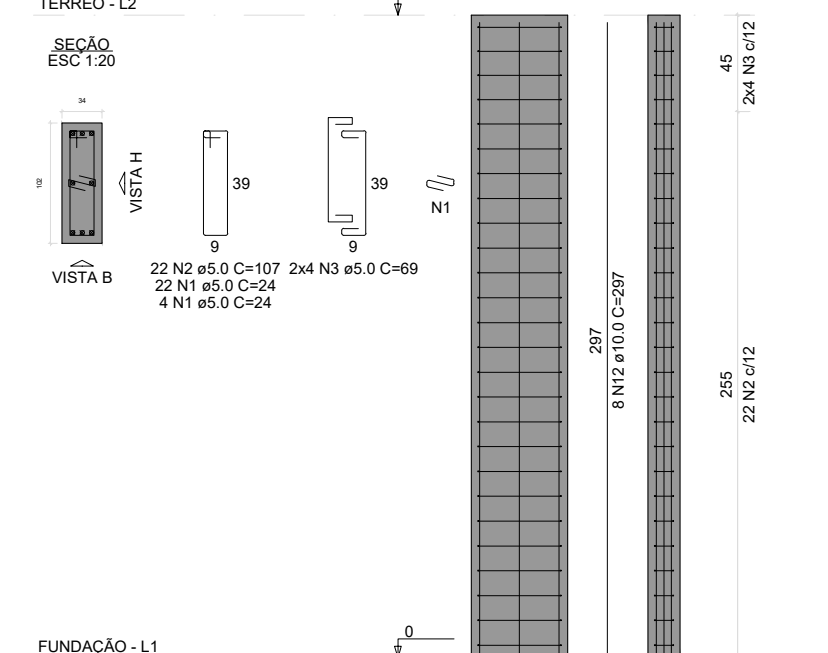
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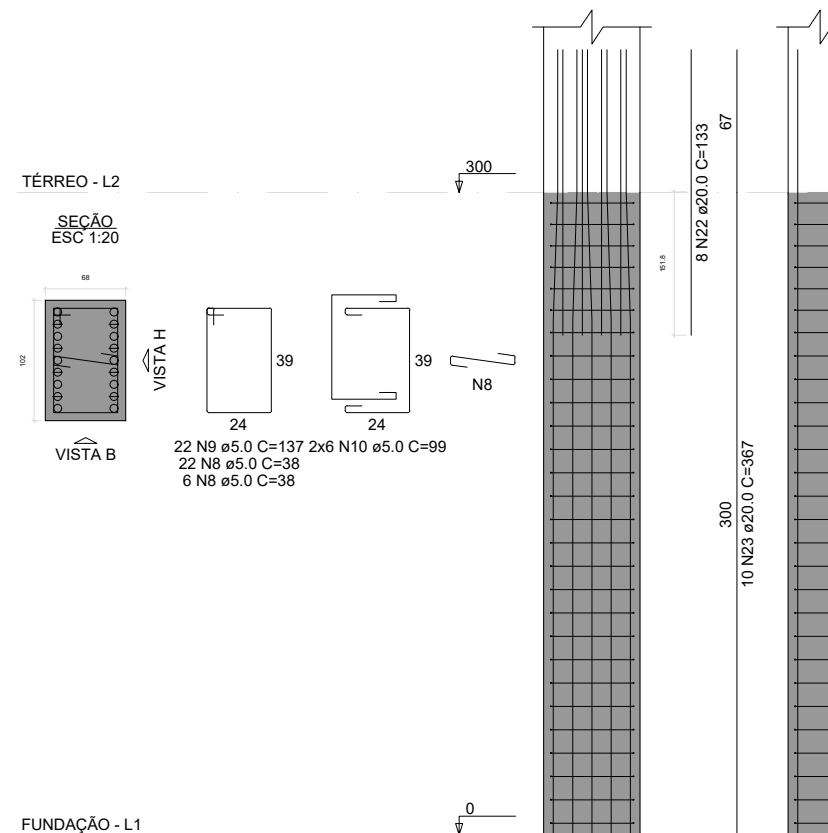
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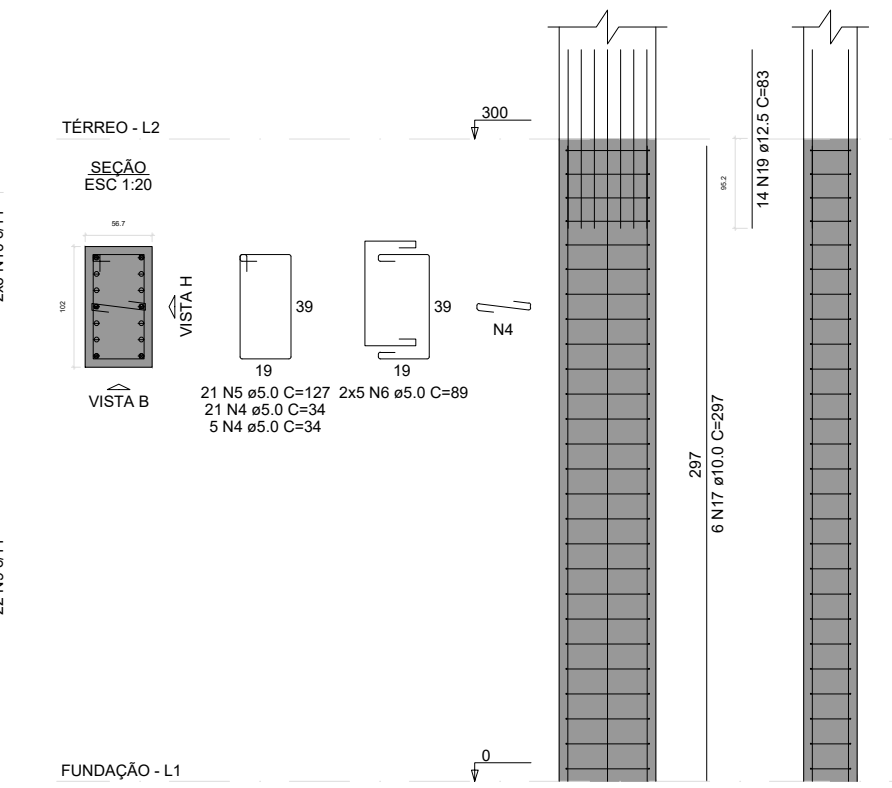
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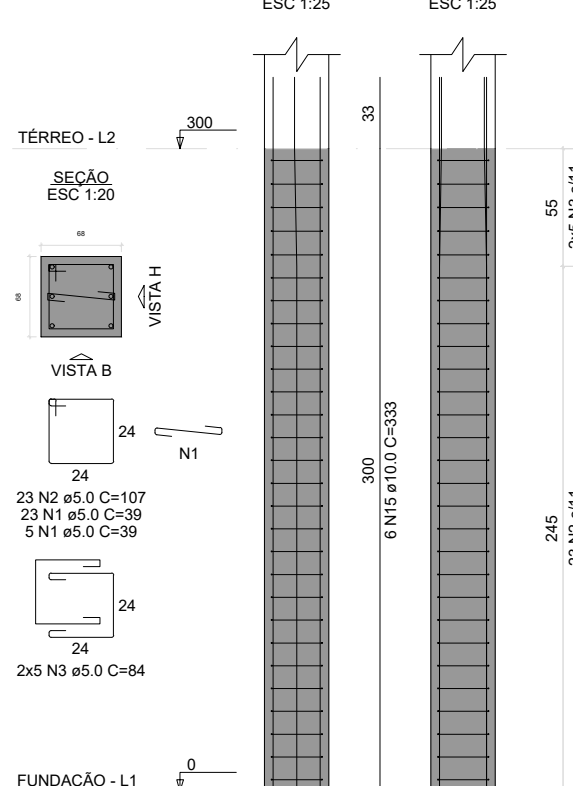
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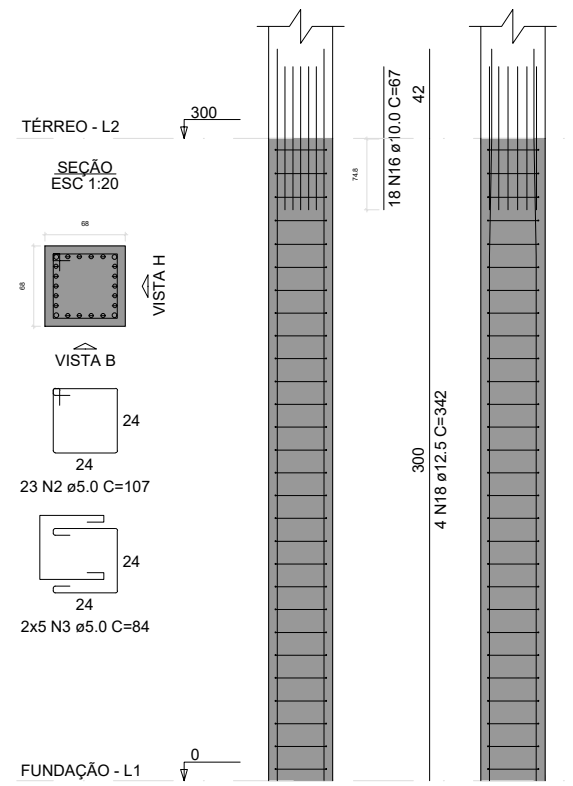
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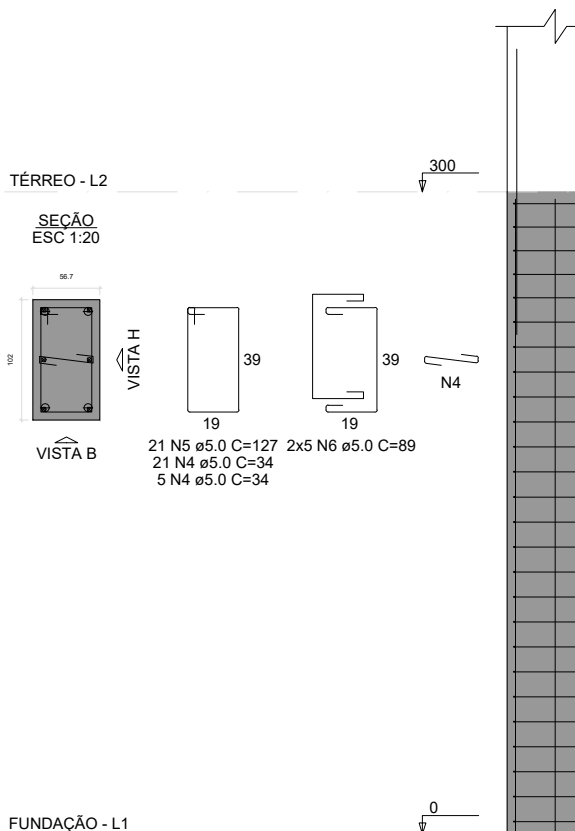
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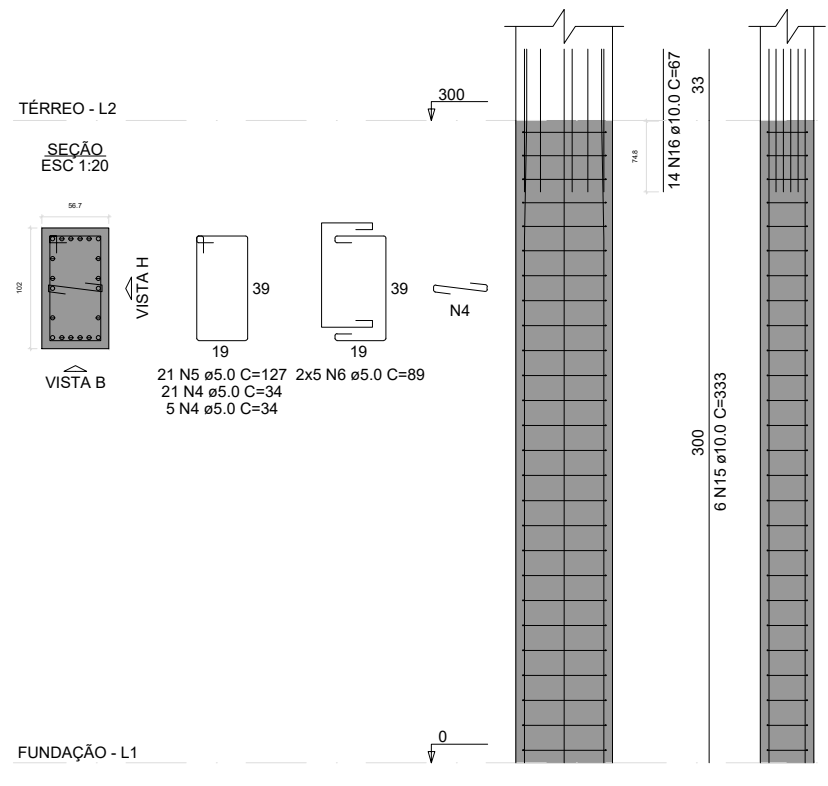
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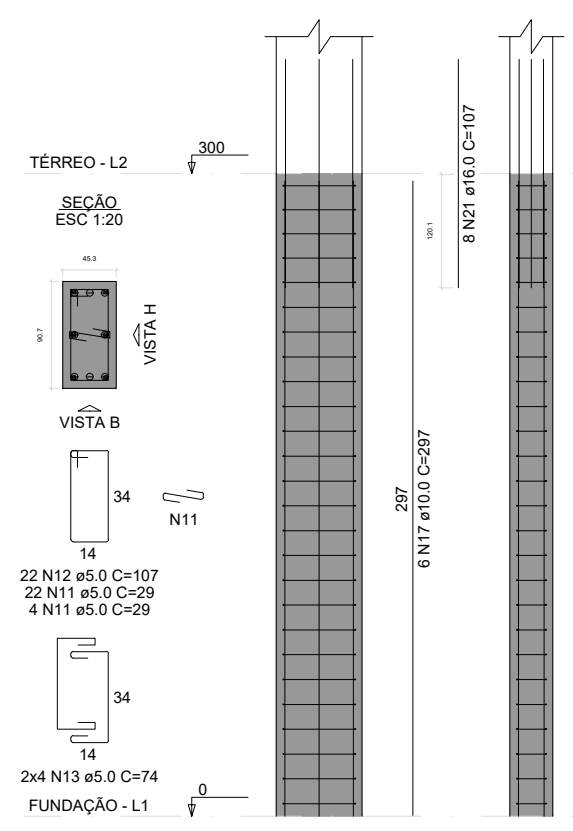
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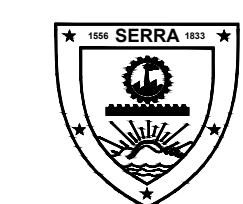
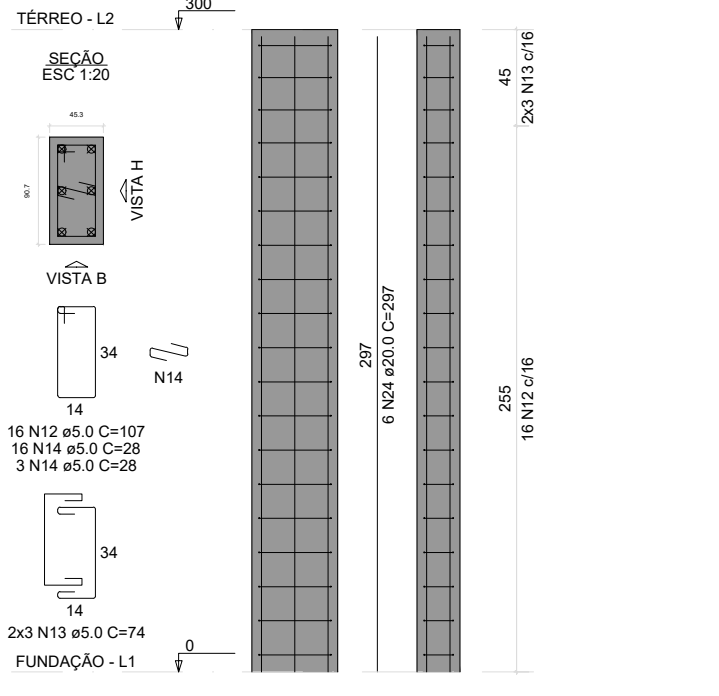
P20



P30



P31



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UNIDADE BÁSICA DE SAÚDE - PORTE IV
Rua Luciano Marques do Rosário, S/N, Nova Almeida - SERRA - ES
PROJETO ESTRUTURAL

AUTORIA DO PROJETO:

LANDY LUCAS SOARES COUTINHO
CREA ES-0050285/D

DATA:

mai-26

ESCALA:

XXX

EDITORIAÇÃO GRÁFICA:

XXXX

VERSÃO:

1.0

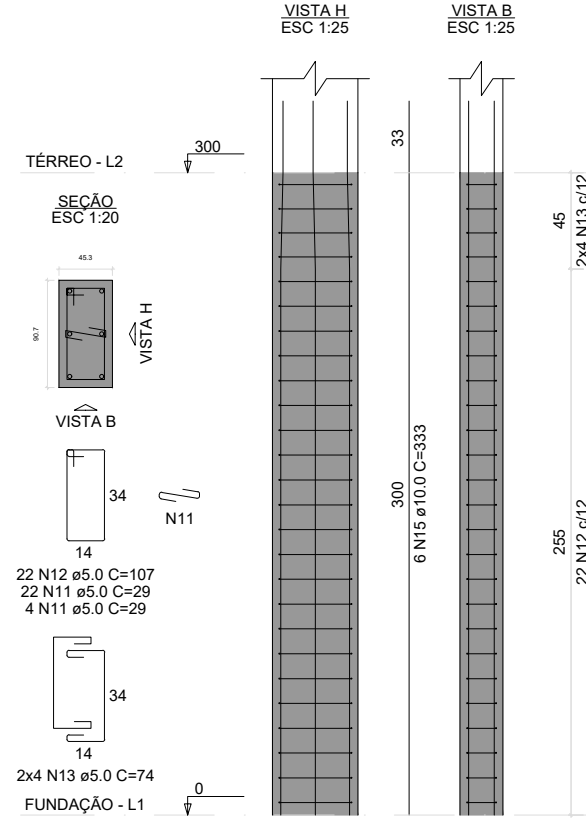
TÍTULO DOS DESENHOS:

Planes

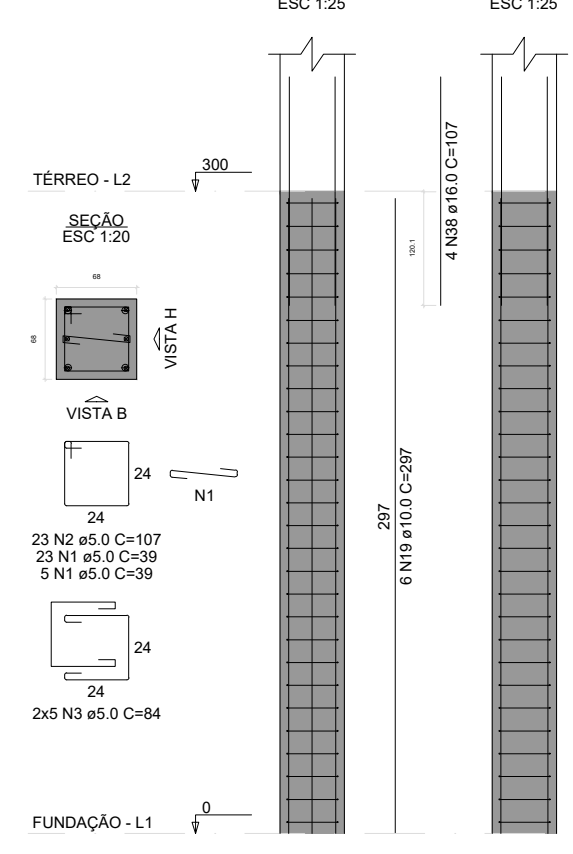
PRANCHAS:

01/09

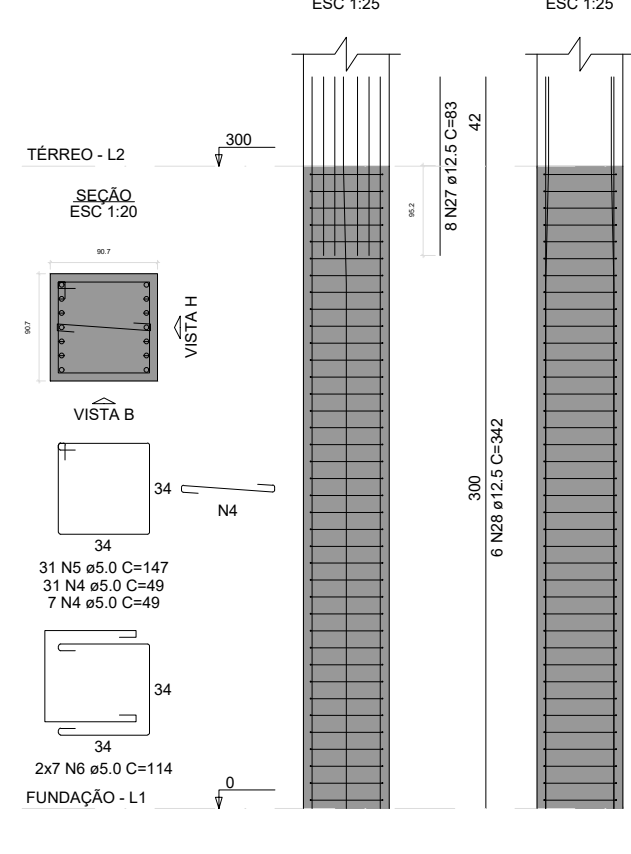
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=P57=P60=P62



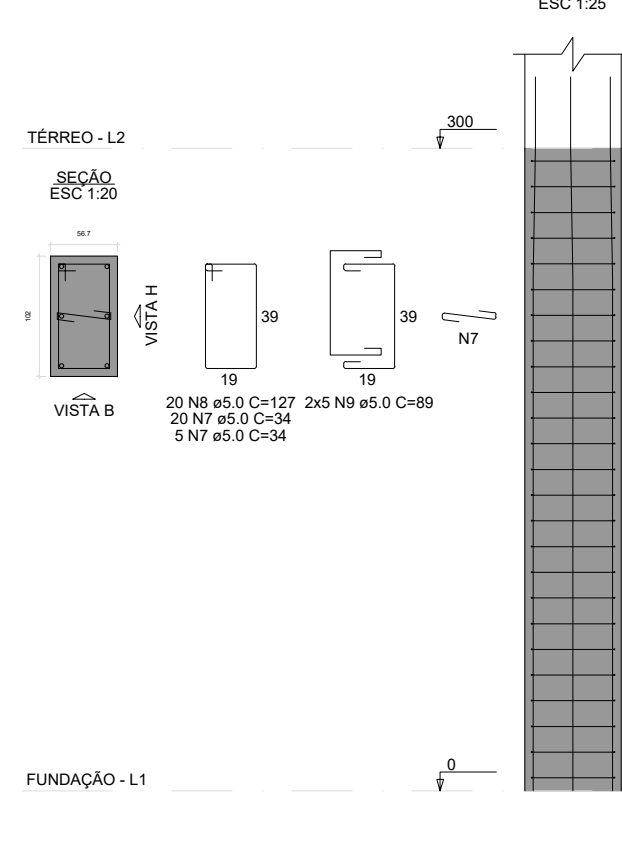
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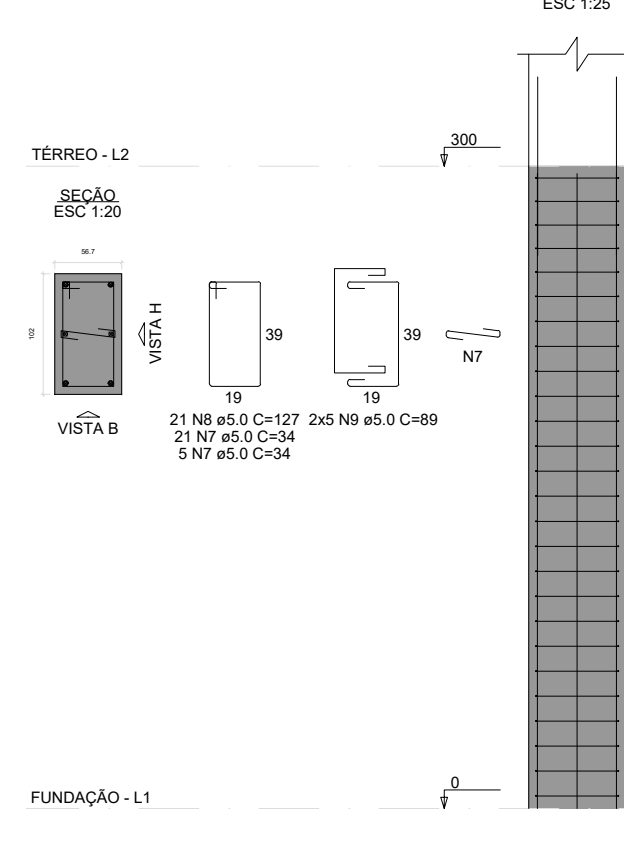
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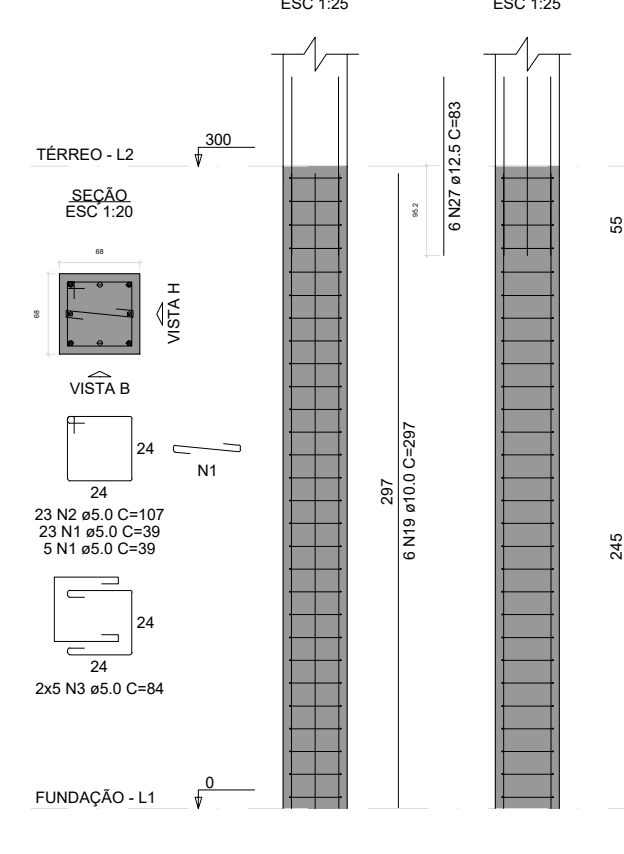
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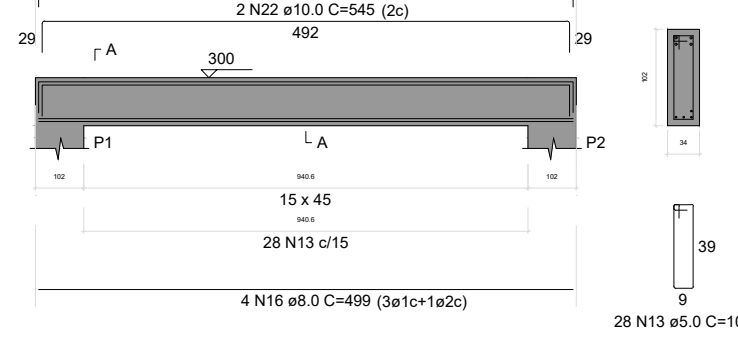
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P55

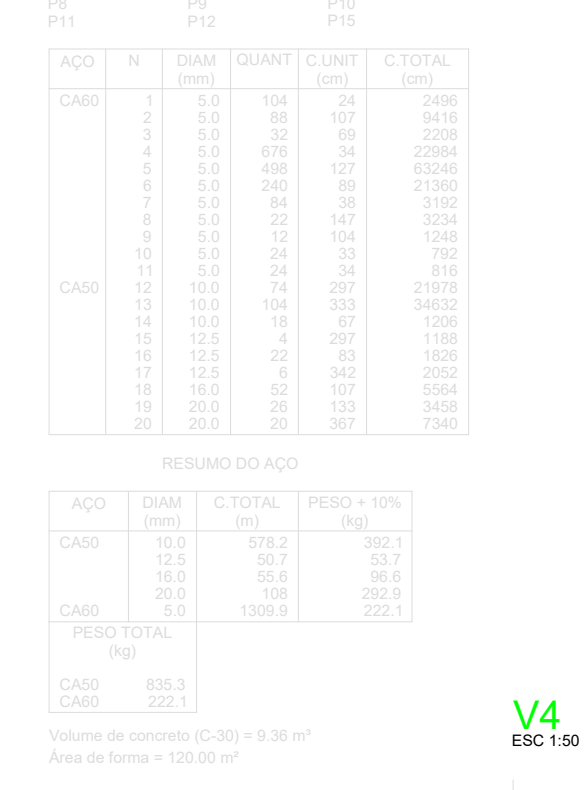


V1
ESC 1:50

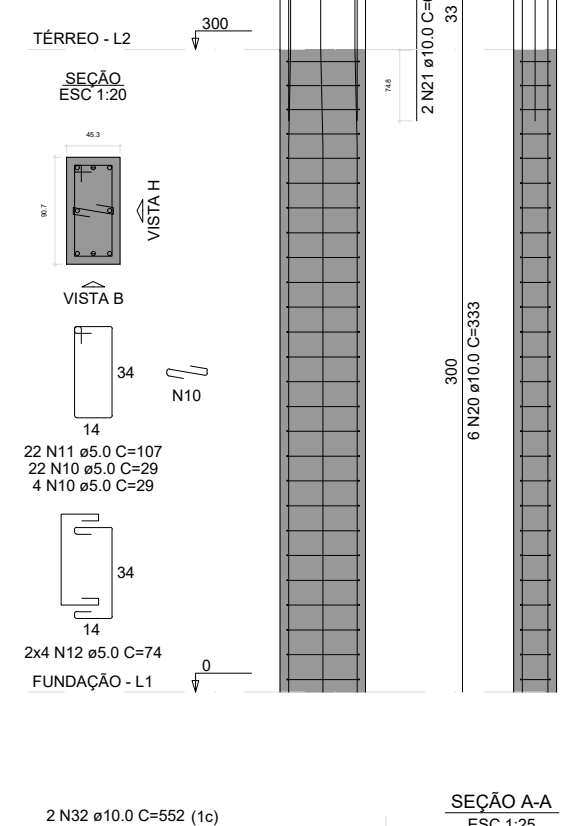


RELAÇÃO DO AÇO					RESUMO DO AÇO				
ACO	N	DIAM (mm)	QUANT	C.TOTAL (cm)	ACO	N	DIAM (mm)	QUANT	C.TOTAL (cm)
CA50	1	5.0	104	2486	CA50	1	5.0	104	2486
	2	5.0	104	2486		2	5.0	104	2486
	3	5.0	104	2486		3	5.0	104	2486
	4	5.0	104	2486		4	5.0	104	2486
	5	5.0	104	2486		5	5.0	104	2486
	6	5.0	104	2486		6	5.0	104	2486
	7	5.0	104	2486		7	5.0	104	2486
	8	5.0	104	2486		8	5.0	104	2486
	9	5.0	104	2486		9	5.0	104	2486
	10	5.0	104	2486		10	5.0	104	2486
	11	5.0	104	2486		11	5.0	104	2486
	12	5.0	104	2486		12	5.0	104	2486
	13	5.0	104	2486		13	5.0	104	2486
	14	5.0	104	2486		14	5.0	104	2486
	15	5.0	104	2486		15	5.0	104	2486
	16	5.0	104	2486		16	5.0	104	2486
	17	5.0	104	2486		17	5.0	104	2486
	18	5.0	104	2486		18	5.0	104	2486
	19	5.0	104	2486		19	5.0	104	2486
	20	5.0	104	2486		20	5.0	104	2486
	21	5.0	104	2486		21	5.0	104	2486
	22	5.0	104	2486		22	5.0	104	2486
	23	5.0	104	2486		23	5.0	104	2486
	24	5.0	104	2486		24	5.0	104	2486
	25	5.0	104	2486		25	5.0	104	2486
	26	5.0	104	2486		26	5.0	104	2486
	27	5.0	104	2486		27	5.0	104	2486
	28	5.0	104	2486		28	5.0	104	2486
	29	5.0	104	2486		29	5.0	104	2486
	30	5.0	104	2486		30	5.0	104	2486
	31	5.0	104	2486		31	5.0	104	2486
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	33	5.0	104	2486		33	5.0	104	2486
	34	5.0	104	2486		34	5.0	104	2486
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	38	5.0	104	2486		38	5.0	104	2486
	39	5.0	104	2486		39	5.0	104	2486
	40	5.0	104	2486		40	5.0	104	2486
	41	5.0	104	2486		41	5.0	104	2486
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	69	5.0	104	2486		69	5.0	104	2486
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	82	5.0	104	2486		82	5.0	104	2486
	83	5.0	104	2486		83	5.0	104	2486
	84	5.0	104	2486		84	5.0	104	2486
	85	5.0	104	2486		85	5.0	104	2486
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	87	5.0	104	2486		87	5.0	104	2486
	88	5.0	104	2486		88	5.0	104	2486
	89	5.0	104	2486		89	5.0	104	2486
	90	5.0	104	2486		90	5.0	104	2486
	91	5.0	104	2486		91	5.0	104	2486
	92	5.0	104	2486		92	5.0	104	2486
	93	5.0	104	2486		93	5.0	104	2486
	94	5.0	104	2486		94	5.0	104	2486
	95	5.0	104	2486		95	5.0	104	2486
	96	5.0	104	2486		96	5.0	104	2486
	97	5.0	104	2486		97	5.0	104	2486
	98	5.0	104	2486		98	5.0	104	2486
	99	5.0	104	2486		99	5.0	104	2486
	100	5.0	104	2486		100	5.0	104	2486

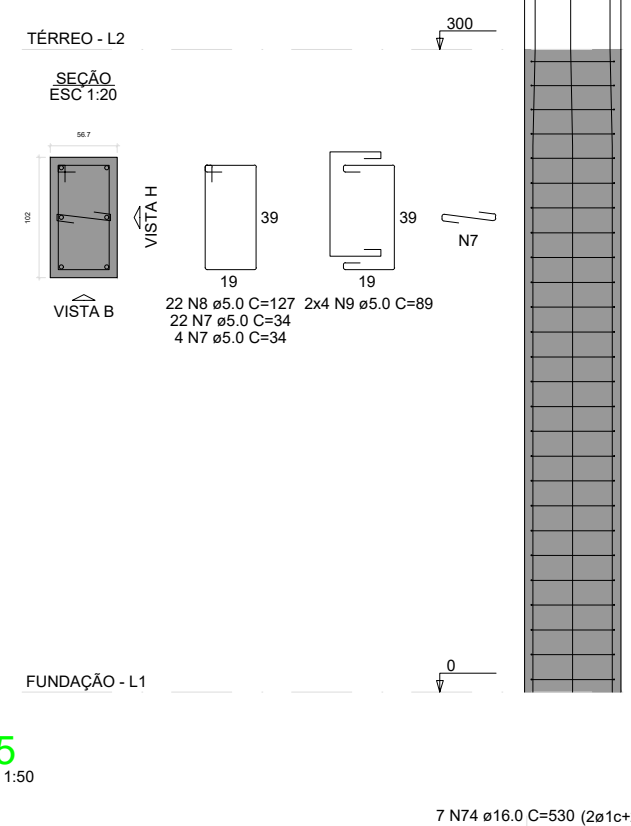
P35=P46=P49=P50=P53=P54=
=P57=P60=P62



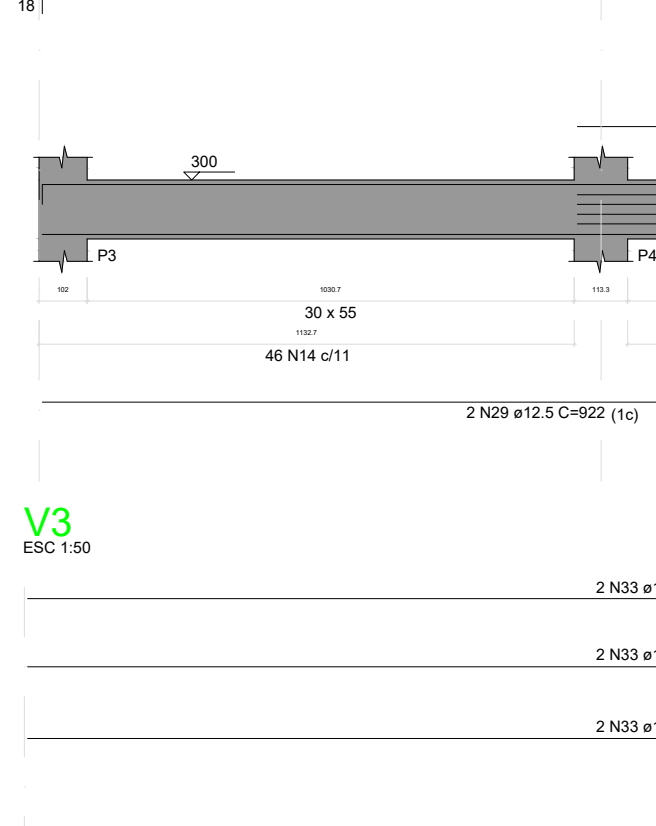
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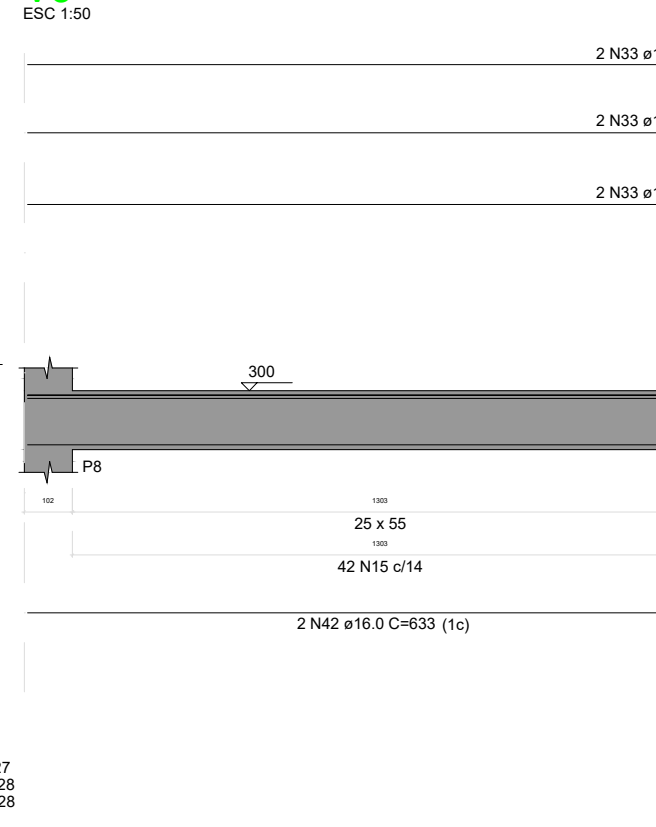
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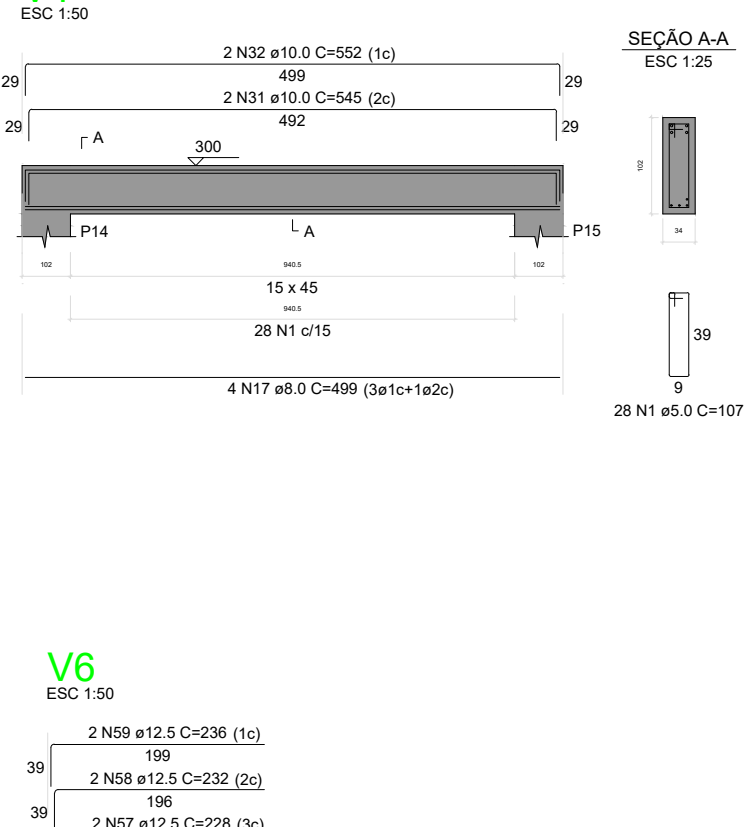
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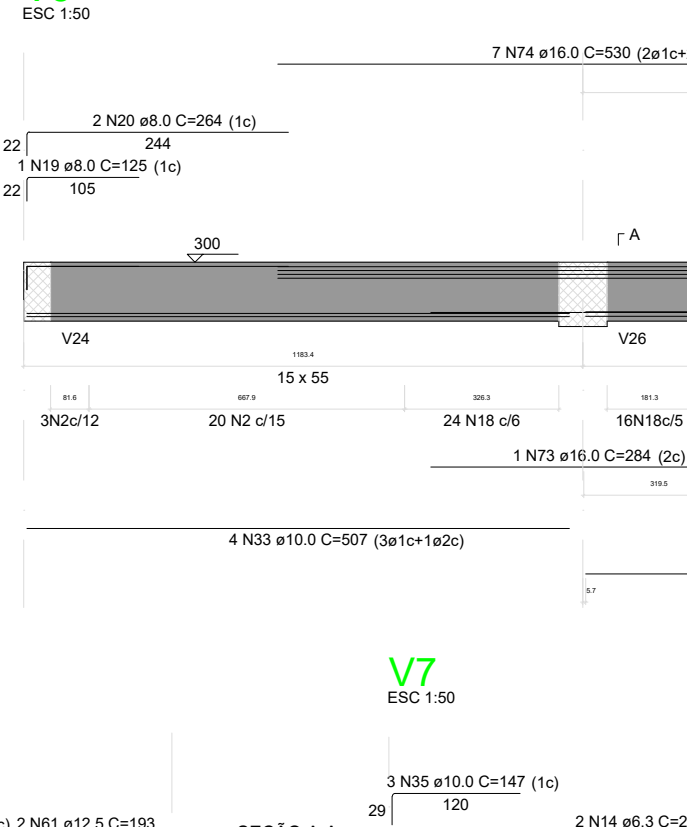
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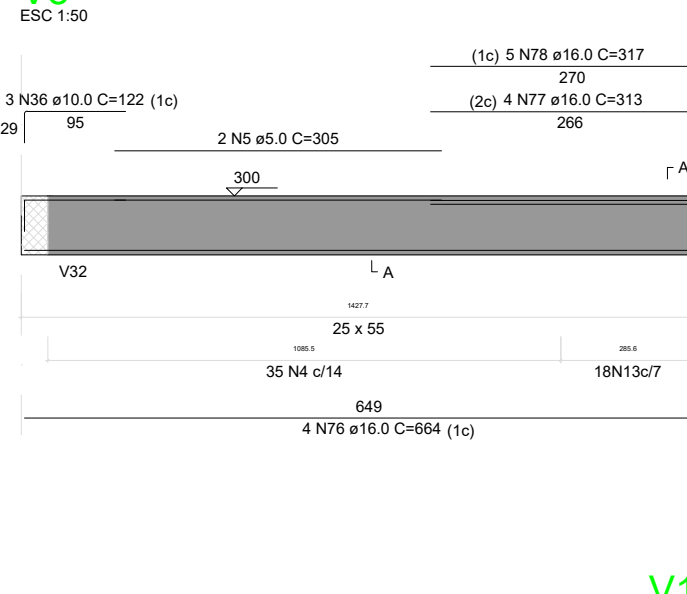
V4



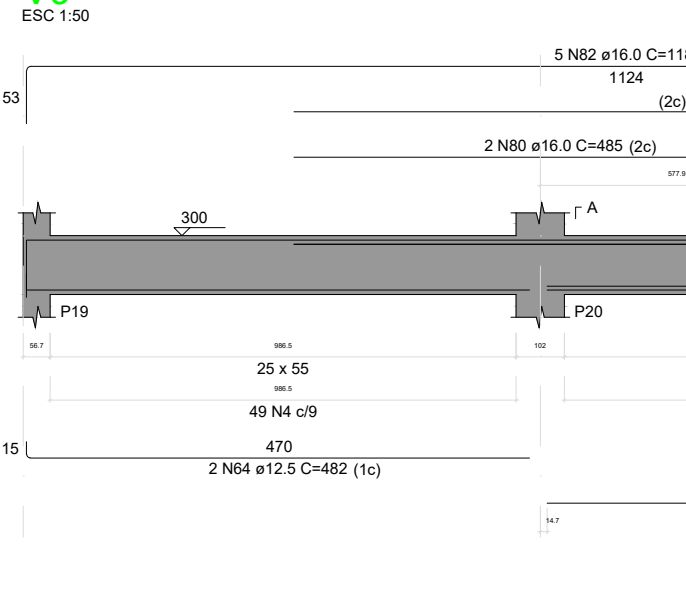
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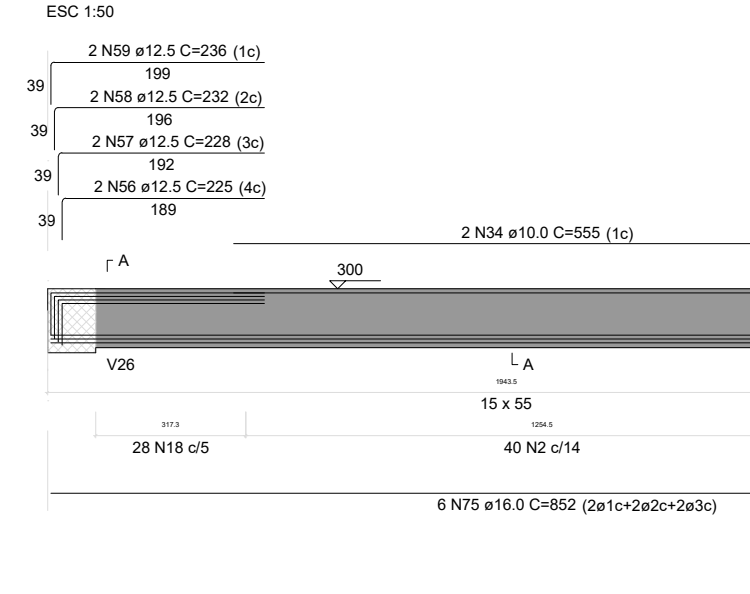
V8



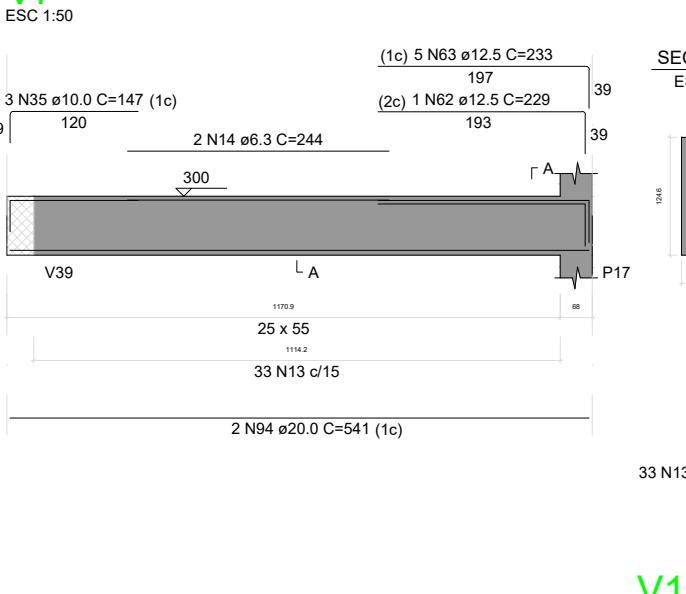
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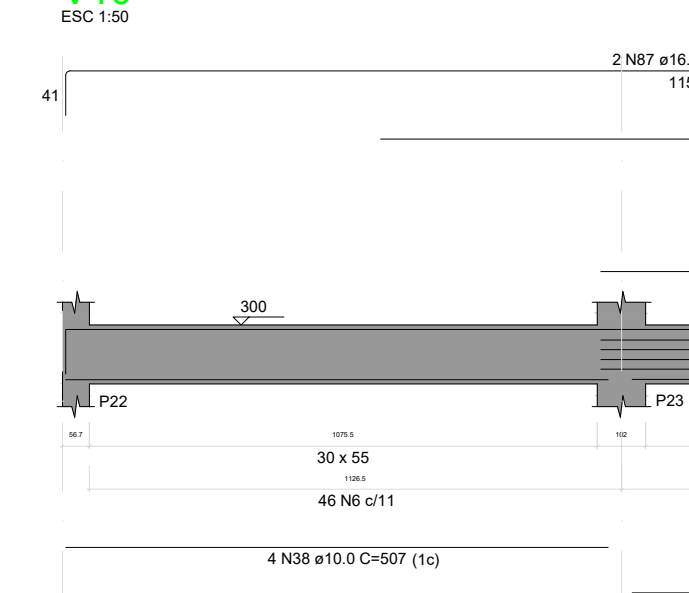
V6



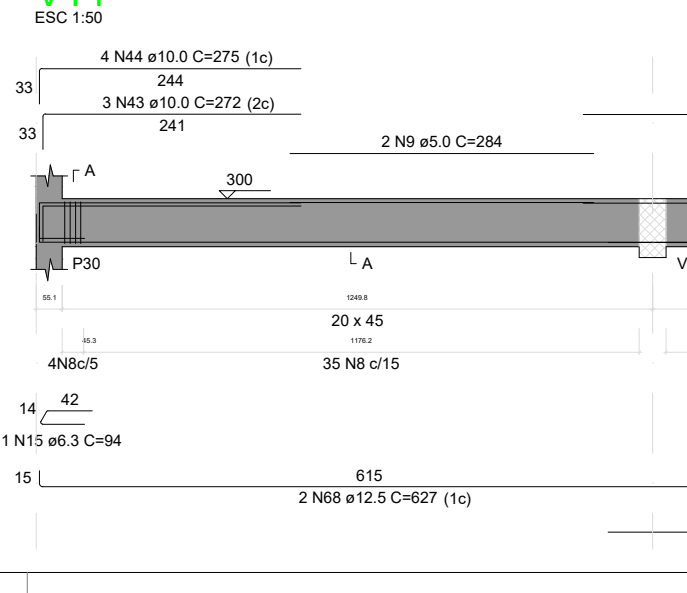
V7



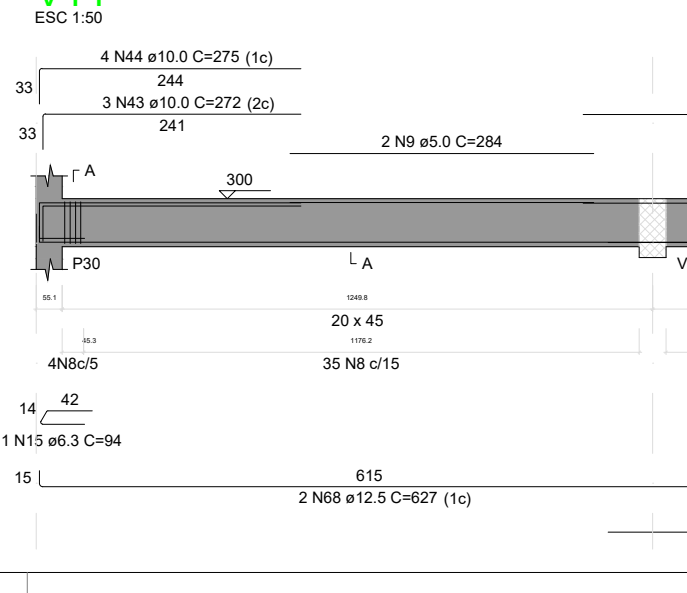
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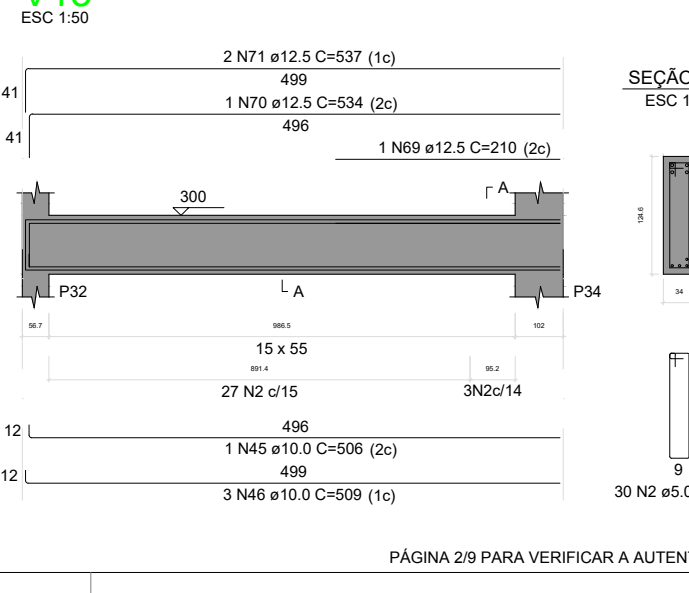
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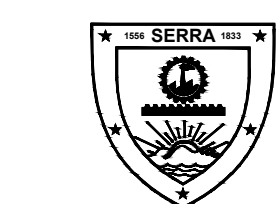
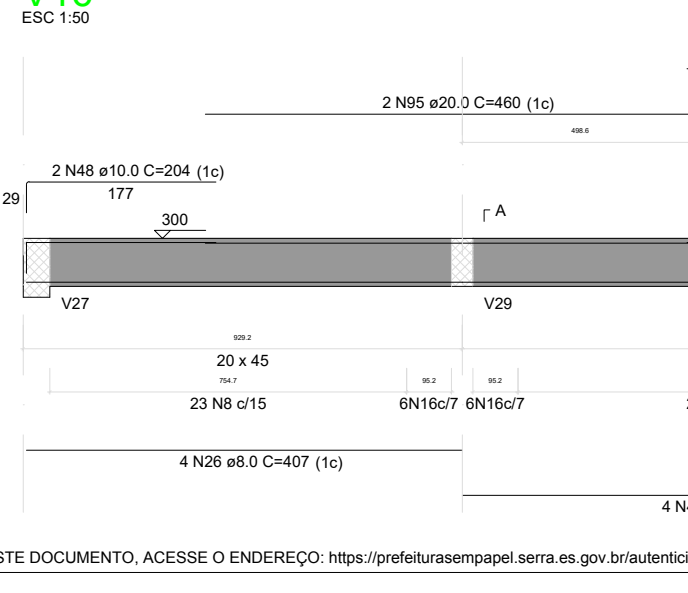
V14



V15



V16



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UNIDADE BÁSICA DE SAÚDE - PORTE IV
Rua Luciano Marques do Rosário, S/N, Nova Almeida - SERRA - ES

PROJETO ESTRUTURAL

AUTORA DO PROJETO:
LANDY LUCAS SCALZER COUTINHO
CREA ES-0050285/D

DATA: mai-26
ESCALA: XXX
EDITORAÇÃO GRÁFICA: XXX
VERSÃO: 1.0

TÍTULO DOS DESENHOS:
Plano
Vigas

DIREITOS AUTORAIS RESERVADOS. PROIBIDO REPRODUÇÃO, DIVULGAÇÃO OU ALTERAÇÃO
SEM ORDEM EXPRESSA DO AUTOR.

TÍTULO DOS DESENHOS: R03
02-02-00-PROJETO ESTRUTURAL - PAVIMENTO TERREO



RELAÇÃO DO AÇO									
ACO	N	DIAM (mm)	QUANT (unidade)	C-TOTAL (mm)	DIAM (mm)	QUANT (unidade)	C-TOTAL (mm)	DIAM (mm)	QUANT (unidade)
CASO	1	2	100	1000	10	100	1000	10	100
	2	3	100	1000	10	100	1000	10	100
	3	4	100	1000	10	100	1000	10	100
	4	5	100	1000	10	100	1000	10	100
	5	6	100	1000	10	100	1000	10	100
	6	7	100	1000	10	100	1000	10	100
	7	8	100	1000	10	100	1000	10	100
	8	9	100	1000	10	100	1000	10	100
	9	10	100	1000	10	100	1000	10	100
	10	11	100	1000	10	100	1000	10	100
CASO	11	12	100	1000	10	100	1000	10	100
	12	13	100	1000	10	100	1000	10	100
	13	14	100	1000	10	100	1000	10	100
	14	15	100	1000	10	100	1000	10	100
	15	16	100	1000	10	100	1000	10	100
	16	17	100	1000	10	100	1000	10	100
	17	18	100	1000	10	100	1000	10	100
	18	19	100	1000	10	100	1000	10	100
	19	20	100	1000	10	100	1000	10	100
	20	21	100	1000	10	100	1000	10	100

RESUMO DO AÇO				
ACO	DIAM (mm)	C-TOTAL (mm)	PESO x 10%	PESO x 10%
CASO	1	100	1000	1000
	2	100	1000	1000
	3	100	1000	1000
	4	100	1000	1000
	5	100	1000	1000
	6	100	1000	1000
	7	100	1000	1000
	8	100	1000	1000
	9	100	1000	1000
	10	100	1000	1000
CASO	11	100	1000	1000
	12	100	1000	1000
	13	100	1000	1000
	14	100	1000	1000
	15	100	1000	1000
	16	100	1000	1000
	17	100	1000	1000
	18	100	1000	1000
	19	100	1000	1000
	20	100	1000	1000

Volume de concreto (C=30) = 13,31 m³
Área de forma = 134,03 m²



PREFEITURA MUNICIPAL DA SERRA

SEOB - SECRETARIA DE OBRAS
DEPARTAMENTO DE PROJETOS E OBRAS PÚBLICAS

RUA MESTRE ANTÔNIO CICERO, N° 239 – 5ª ANDAR DO ANEXO – CENTRO
SERRA – ES – CEP.: 29.176-439
TEL.: (27) 3291-2156 | EMAIL: projetospo@gmail.com

UNIDADE BÁSICA DE SAÚDE - PORTE IV

Rua União Marques do Rosário, S/N, Nova Almeida – SERRA – ES

PROJETO ESTRUTURAL

AUTORA DO PROJETO:

LANDY LUCAS SCALSER COUTINHO
CREA ES-0050285/D

DATA: mai-26
VERSÃO: 1.0

ESCALA: XXX
EDITORAÇÃO GRÁFICA: XXX

TÍTULO DOS DESENHOS: Vigas
FRANCHA: 03/09

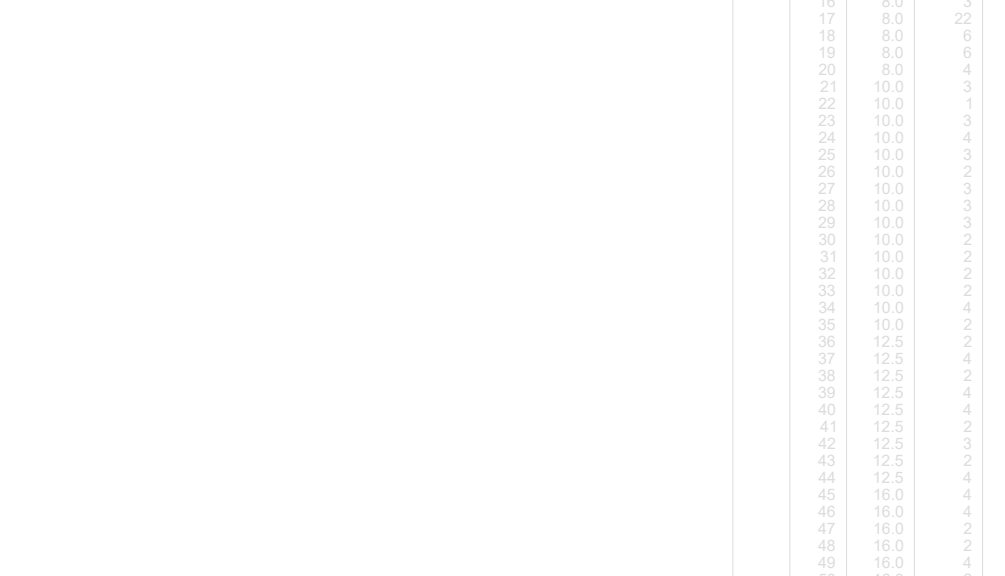
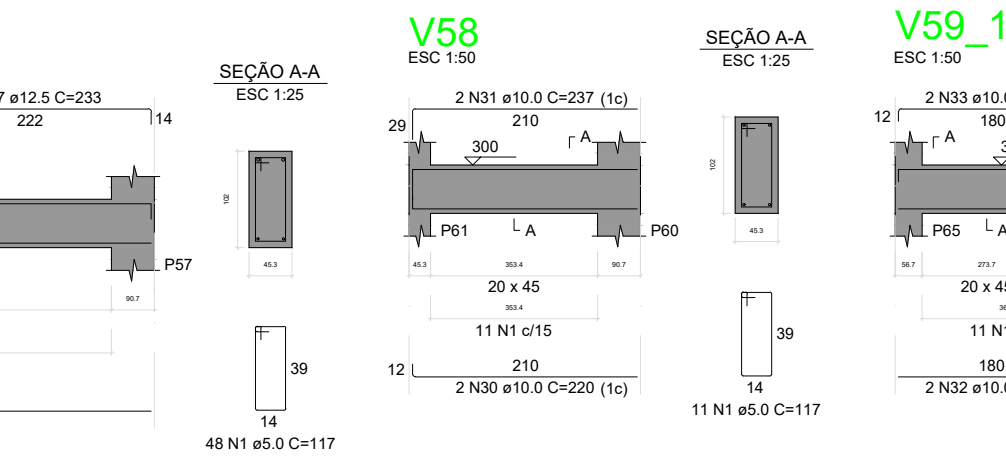
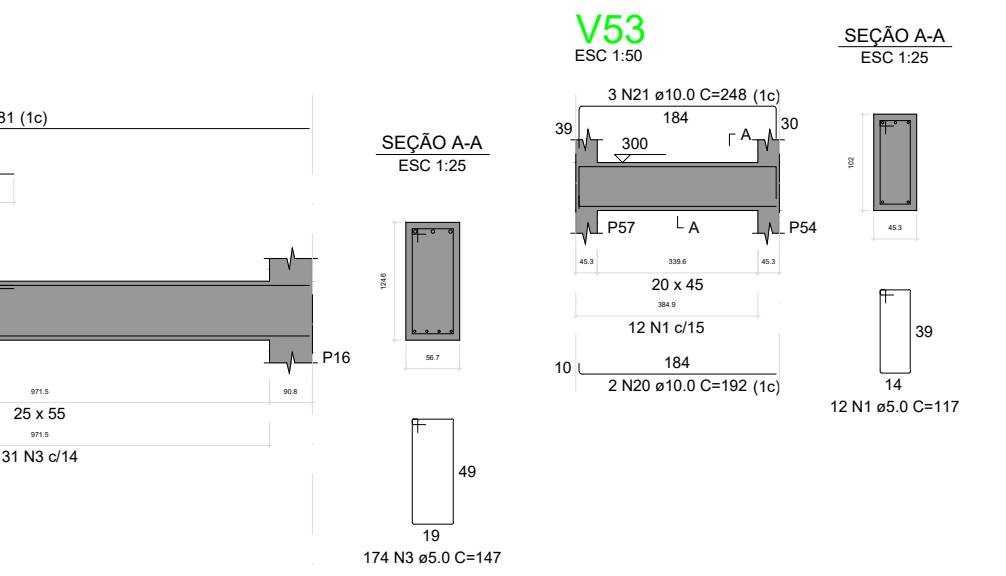
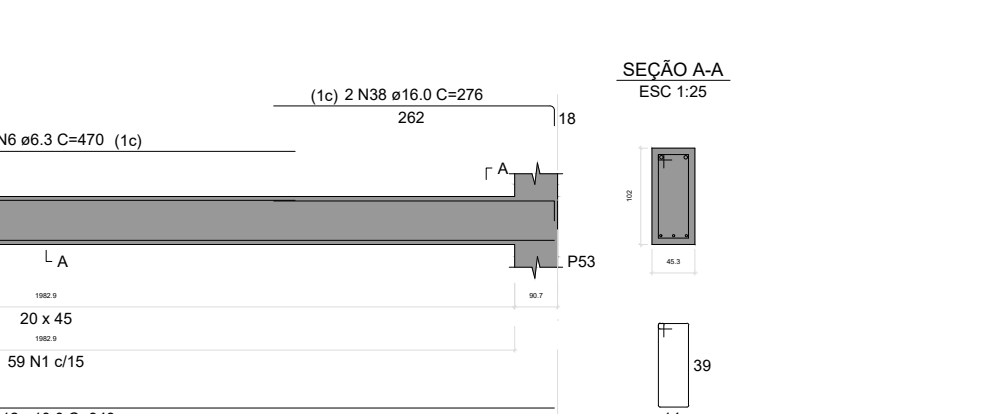
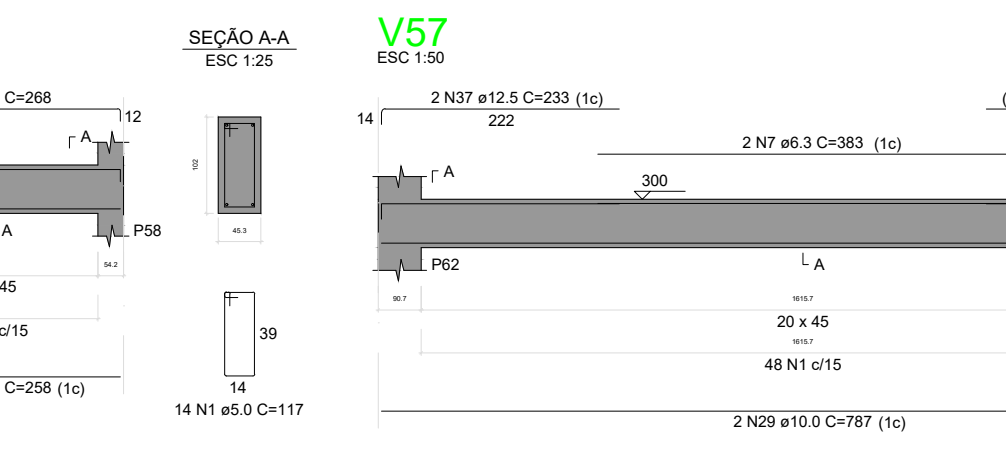
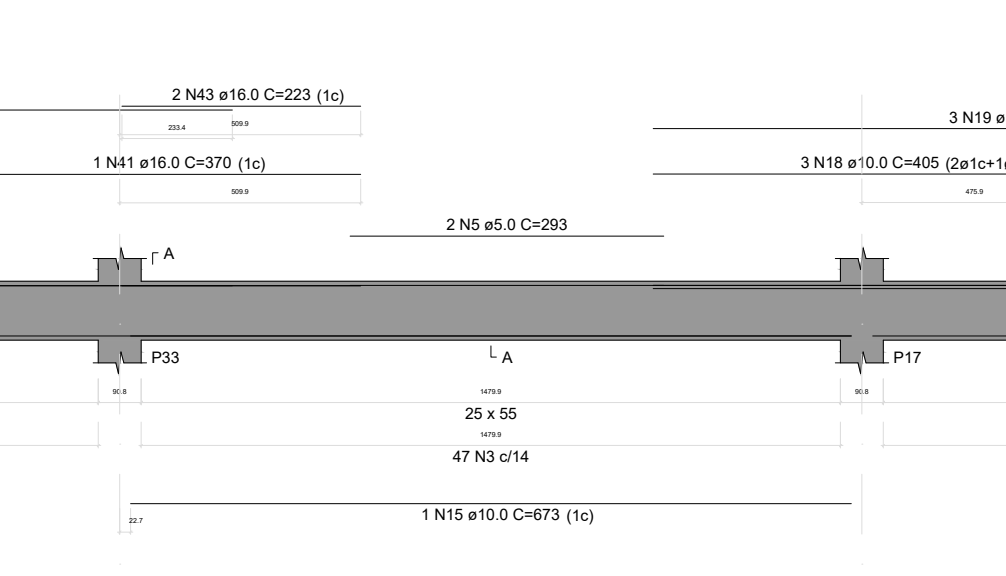
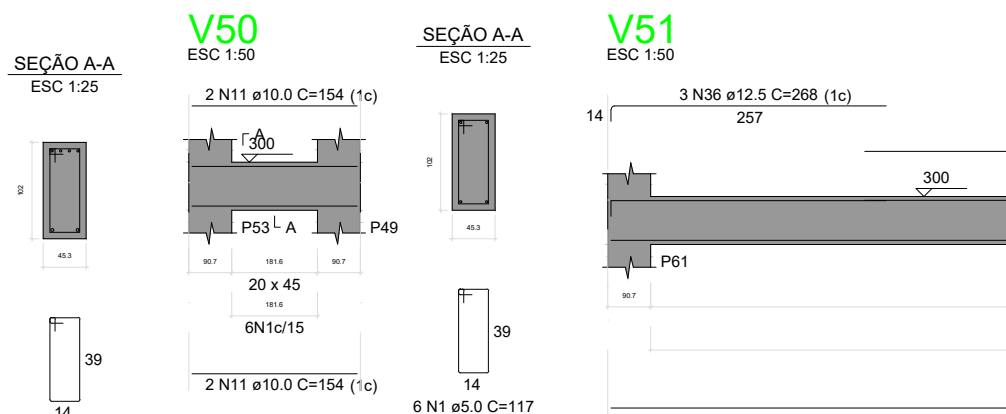
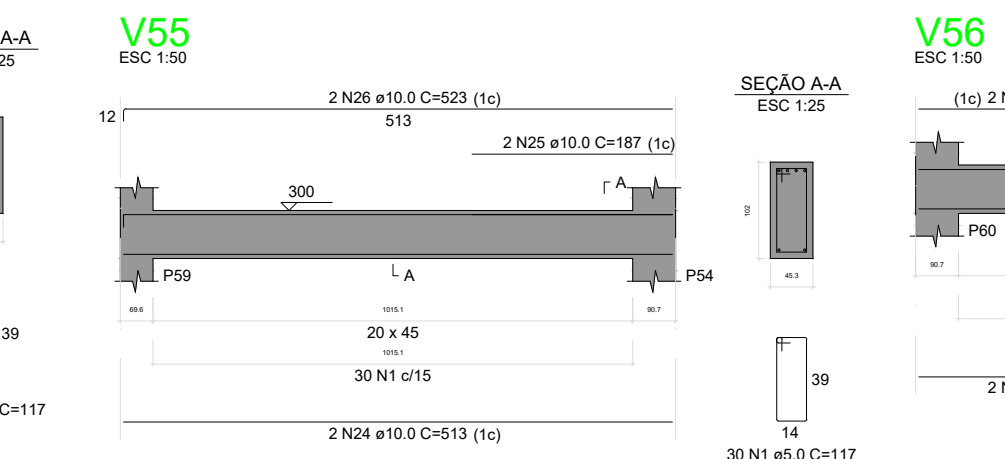
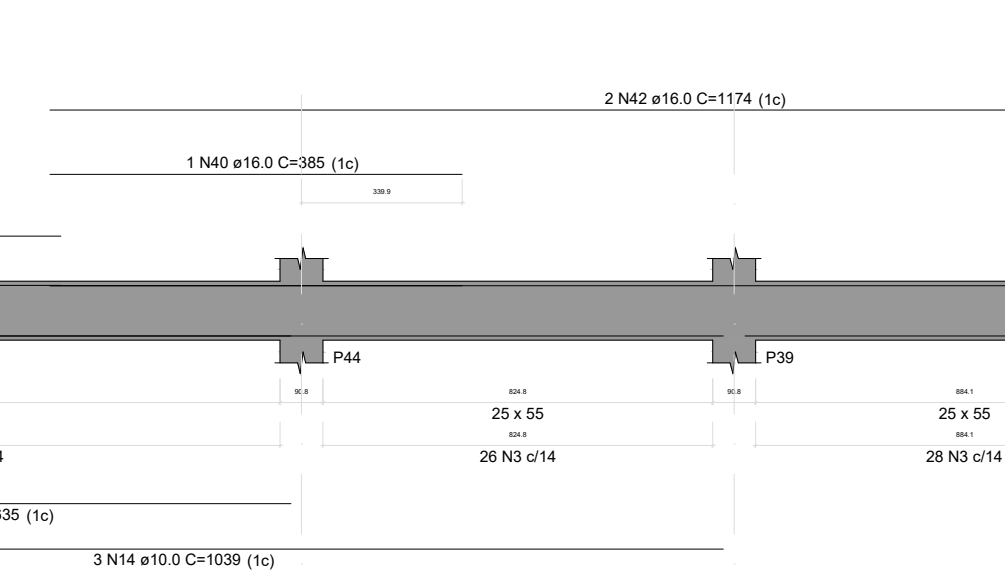
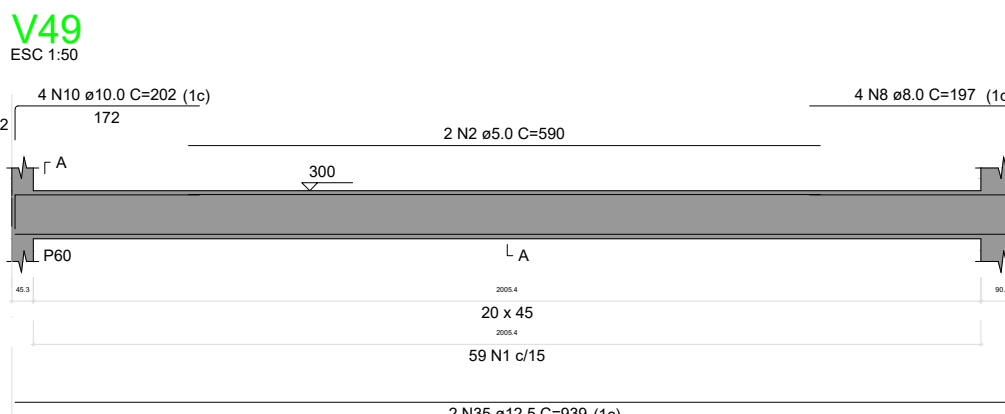
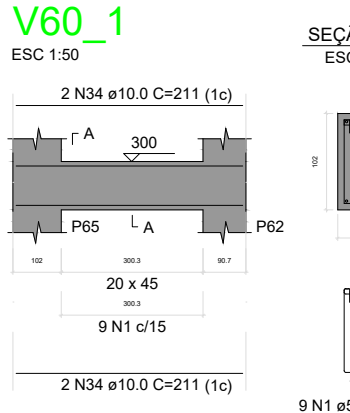
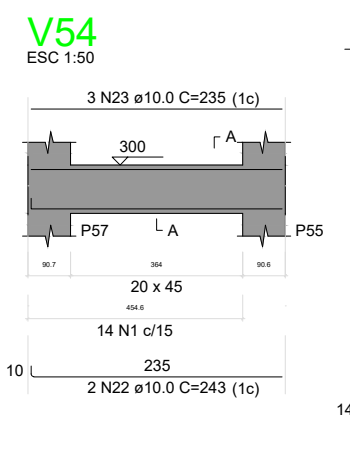
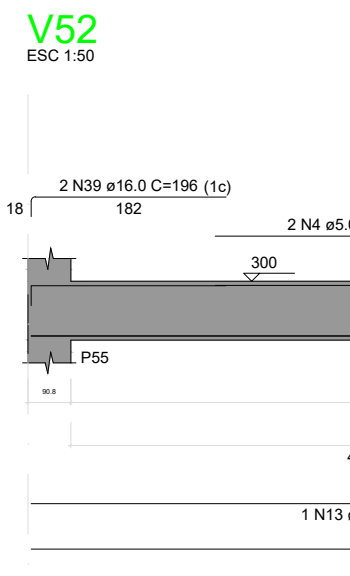
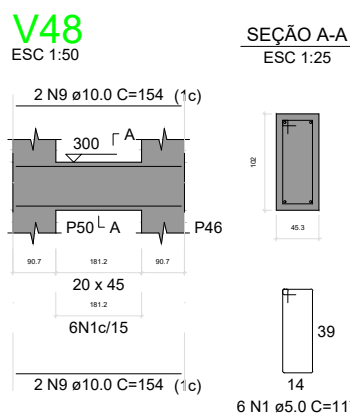
DIREITOS AUTORAIS RESERVADOS. PROIBIDO REPRODUÇÃO, DIVULGAÇÃO OU ALTERAÇÃO SEM EXPRESSA DO AUTORA.

TÍTULO DOS DESENHOS: R03
02 - 02 - PROJETO ESTRUTURAL - PAVIMENTO TERREO

RELAÇÃO DO AÇO					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	175	127	9225
	2	5.0	446	127	9923
	3	5.0	2	213	426
	4	5.0	46	117	9258
	5	5.0	12	294	588
	6	5.0	4	126	512
	7	6.3	157	178	27946
	8	6.3	131	186	19386
	9	6.3	3	287	861
	10	6.3	1	339	339
CA50	11	8.0	3	287	861
	12	8.0	1	339	339
	13	8.0	6	614	3684
	14	8.0	22	614	3684
	15	8.0	6	850	5130
	16	8.0	4	477	1908
	17	10.0	4	477	1908
	18	10.0	4	490	1960
	19	10.0	4	522	2088
	20	10.0	4	490	1960
	21	10.0	4	490	1960
	22	10.0	2	867	1734
	23	10.0	2	867	1734
	24	10.0	2	867	1734
	25	10.0	2	867	1734
	26	10.0	2	867	1734
	27	10.0	2	248	496
	28	10.0	4	490	1960
	29	10.0	4	334	1336
	30	10.0	4	490	1960
	31	10.0	24	119	2856
	32	10.0	6	843	5058
	33	10.0	6	843	5058
	34	10.0	3	1096	3288
	35	10.0	3	937	2811
	36	10.0	3	333	999
	37	10.0	3	333	999
	38	10.0	3	301	903
	39	10.0	3	301	903
	40	10.0	3	1199	3597
	41	10.0	3	374	1122
	42	12.5	2	365	730
	43	12.5	2	377	754
	44	12.5	3	707	2121
	45	12.5	3	492	1476
	46	12.5	2	377	754
	47	12.5	2	349	698
	48	12.5	2	377	754
	49	12.5	1	758	758
	50	12.5	1	340	680
	51	12.5	2	1197	2394
	52	12.5	2	340	680
	53	16.0	1	661	661
	54	16.0	1	377	754
	55	16.0	1	255	255
	56	16.0	1	255	255
	57	16.0	4	258	1032
	58	16.0	1	284	284
	59	16.0	1	289	289
	60	16.0	5	452	2260
	61	16.0	5	654	3270
	62	16.0	9	635	5715
	63	16.0	9	690	6210
	64	16.0	1	354	354
	65	20.0	1	947	947
	66	20.0	2	651	1302
	67	20.0	2	334	668
	68	20.0	2	336	672
	69	20.0	4	332	1328
	70	20.0	1	336	336
	71	20.0	1	371	371
	72	20.0	1	375	375
	73	20.0	1	314	314
	74	20.0	1	632	632
	75	20.0	3	940	2820
	76	20.0	7	842	5894
	77	20.0	7	946	6622
	78	20.0	6	326	1956
	79	20.0	6	328	1968
	80	20.0	1	336	336
	81	20.0	6	341	2046

RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)	
CA50	6.3	506.6	136.4	
	8.0	492	213.5	
	10.0	402.9	327.5	
	12.5	118.2	125.2	
	16.0	215.7	374.5	
	20.0	553.9	876.6	
	5.0	880	143.2	
PESO TOTAL (kg)				
CA50		2055.6		
CA80		145.2		

Volume de concreto (C-30) = 14.28 m³
Área de forma = 159.01 m²



RELAÇÃO DO AÇO					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	466	147	9843
	2	5.0	2	288	576
	3	5.0	172	117	20124
	4	5.0	70	127	8850
	5	5.0	238	476	476
	6	5.0	360	840	3024
	7	5.0	34	107	3638
	8	5.0	10	328	3280
	9	6.3	143	148	21164
	10	6.3	18	205	3690
CA50	11	8.0	8	442	3536
	12	8.0	8	442	3536
	13	8.0	6	457	2742
	14	8.0	24	126	3024
	15	8.0	24	126	3024
	16	8.0	24	126	3024
	17	8.0	24	126	3024
	18	8.0	24	126	3024
	19	8.0	24	126	3024
	20	8.0	24	126	3024
	21	10.0	24	126	3024
	22	10.0	24	126	3024
	23	10.0	24	126	3024
	24	10.0	24	126	3024
	25	10.0	24	126	3024
	26	10.0	24	126	3024
	27	10.0	24	126	3024
	28	10.0	24	126	3024
	29	10.0	24	126	3024
	30	10.0	24	126	3024
	31	10.0	24	126	3024
	32	10.0	24	126	3024
	33	10.0	24	126	3024
	34	10.0	24	126	3024
	35	10.0	24	126	3024
	36	10.0	24	126	3024
	37	10.0	24	126	3024
	38	10.0	24	126	3024
	39	10.0	24	126	3024
	40	10.0	24	126	3024
	41	10.0	24	126	3024
	42	10.0	24	126	3024
	43	10.0	24	126	3024

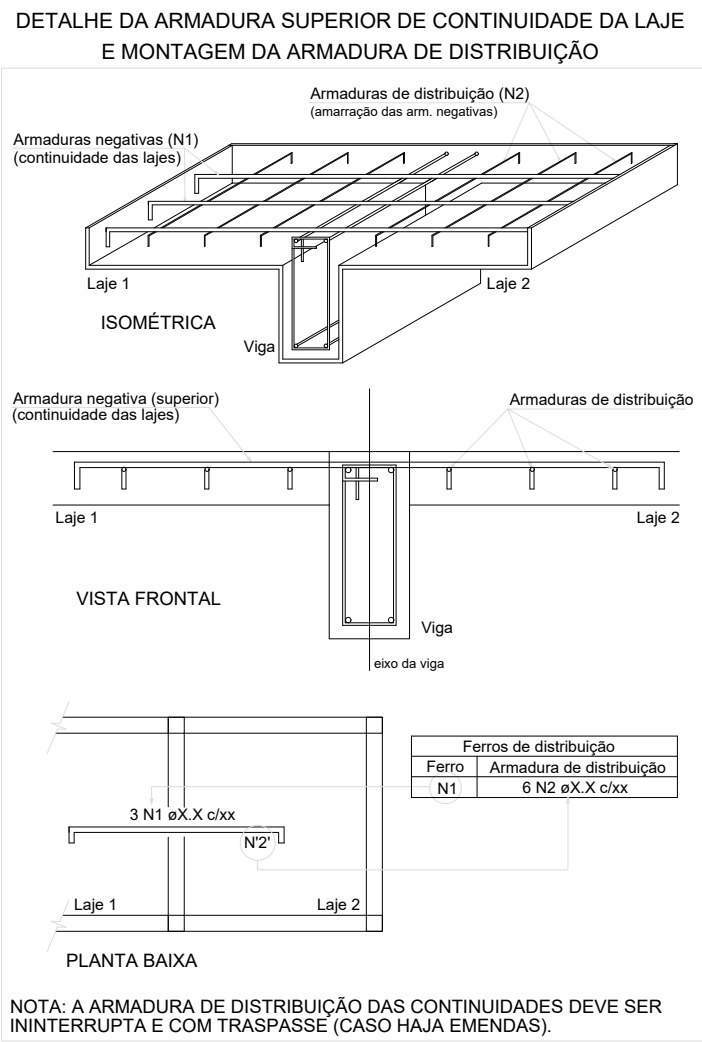
RELAÇÃO DO AÇO					
V48	V49	V50			
V49	V50	V51			
V51	V52	V53			
V54	V55	V56			
V56	V57	V58			
V58	V59	V60			
V60	V61	V62			
AÇO	N	DIAM	QUANT	C.UNIT	C.TOTAL
CA50	1	5.0	278	117	32643
	2	5.0	2	288	576
	3	5.0	174	117	20576
	4	5.0	70	127	8850
	5	5.0	230	286	6578
	6	5.0	360	840	3024
	7	5.0	34	107	3638
	8	5.0	10	328	3280
	9	6.3	143	148	21164
	10	6.3	18	205	3690
CA50	11	8.0	8	442	3536
	12	8.0	8	442	3536
	13	8.0	6	457	2742
	14	8.0	24	126	3024
	15	8.0	24	126	3024
	16	8.0	24	126	3024
	17	8.0	24	126	3024
	18	8.0	24	126	3024
	19	8.0	24	126	3024
	20	8.0	24	126	3024
	21	10.0	24	126	3024
	22	10.0	24	126	3024
	23	10.0	24	126	3024
	24	10.0	24	126	3024
	25	10.0	24	126	3024
	26	10.0	24	126	3024
	27	10.0	24	126	3024
	28	10.0	24	126	3024
	29	10.0	24	126	3024
	30	10.0	24	126	3024
	31	10.0	24	126	3024
	32	10.0	24	126	3024
	33	10.0	24	126	3024
	34	10.0	24	126	3024
	35	10.0	24	126	3024
	36	12.5	2	270	540
	37	12.5	2	270	540
	38	16.0	2	230	460
	39	16.0	2	230	460
	40	16.0	1	380	380
	41	22.0	2	274	548
	42	16.0	2	274	548



Armaduras de distribuição	
Armadura	Armadura de distribuição
N1	8 N1 ø5.0 c/17 C-82
N2	8 N1 ø5.0 c/17 C-82
N3	14 N3 ø5.0 c/17 C-186
N4	11 N4 ø5.0 c/17 C-136
N5	11 N5 ø5.0 c/17 C-133
N6	6 N7 ø5.0 c/17 C-97
N7	11 N8 ø5.0 c/17 C-144
N8	11 N9 ø5.0 c/17 C-92
N9	5 N11 ø5.0 c/17 C-43
N10	5 N12 ø5.0 c/17 C-48
N11	6 N14 ø5.0 c/17 C-52
N12	14 N15 ø5.0 c/17 C-181
N13	12 N16 ø5.0 c/17 C-187
N14	8 N19 ø5.0 c/17 C-182
N15	13 N5 ø5.0 c/13 C-133
N16	17 N7 ø5.0 c/13 C-87
N17	9 N23 ø5.0 c/13 C-48
N18	36 N24 ø5.0 c/13 C-36
N19	6 N11 ø5.0 c/17 C-43
N20	8 N12 ø5.0 c/17 C-48
N21	11 N25 ø5.0 c/17 C-VAR
N22	5 N27 ø5.0 c/17 C-VAR
N23	17 N28 ø5.0 c/17 C-89
N24	9 N29 ø5.0 c/13 C-VAR
N25	9 N28 ø5.0 c/17 C-48
N26	9 N30 ø5.0 c/17 C-39
N27	6 N32 ø5.0 c/17 C-49
N28	5 N33 ø5.0 c/13 C-VAR
N29	8 N34 ø5.0 c/13 C-VAR
N30	6 N35 ø5.0 c/13 C-50
N31	14 N36 ø5.0 c/13 C-VAR

RELAÇÃO DO AÇO	
ACQ	N
ACQ	1
ACQ	2
ACQ	3
ACQ	4
ACQ	5
ACQ	6
ACQ	7
ACQ	8
ACQ	9
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ACQ	91
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ACQ	94
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ACQ	96
ACQ	97
ACQ	98
ACQ	99
ACQ	100

RESUMO DO AÇO	
ACQ	N
ACQ	1
ACQ	2
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ACQ	5
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ACQ	92
ACQ	93
ACQ	94
ACQ	95
ACQ	96
ACQ	97
ACQ	98
ACQ	99
ACQ	100



ARMADURA NEGATIVA DAS LAJES DO PAVIMENTO TERREO (EIXO Y)

Escala 1:50

PREFEITURA MUNICIPAL DA SERRA

SEOB - SECRETARIA DE OBRAS

DEPARTAMENTO DE PROJETOS E OBRAS PÚBLICAS

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UNIDADE BÁSICA DE SAÚDE - PORTE IV

Rua Luciano Marques do Rosário, S/N, Nova Almeida – SERRA – ES

PROJETO ESTRUTURAL

AUTORIA DO PROJETO:

LANDY LUCAS SCALSER COUTINHO

CREA ES-0050285/D

DATA:

mai-26

ESCALA:

XXX

EDITORIAÇÃO GRÁFICA:

VERSÃO:

1.0

TÍTULO DOS DESENHOS:

ARMADURA NEGATIVA DAS LAJES DO PAVIMENTO TERREO (EIXO Y)

PRANCHAS:

06/09

DIREITOS AUTORAIS RESERVADOS. PROIBIDO REPRODUÇÃO, DIVULGAÇÃO OU ALTERAÇÃO SEM ORDEM EXPRESSA DO AUTOR.

TÍTULO DOS DESENHOS: R03

02-02-00-PROJETO ESTRUTURAL-PAVIMENTO TERREO

PÁGINA 6/9 PARA VERIFICAR A AUTENTICIDADE DESTA DOCUMENTO, ACESSO O ENDEREÇO: <https://prefeituraempapel.serra.es.gov.br/autenticidade/5f507dFA90954F41886F4CEE228D8667>



RELAÇÃO DO AÇO					
ACD	N	DIAM (mm)	QUANT	C. UNIT (cm)	C. TOTAL (cm)
CASO	1	6.3	16	457	7300
	2	6.3	5	388	1940
	3	6.3	12	VAR	VAR
	4	6.3	16	457	8226
	5	6.3	16	347	5705
	6	6.3	11	VAR	VAR
	7	6.3	13	686	8947
	8	6.3	14	VAR	VAR
	9	6.3	9	370	3330
	10	6.3	26	VAR	VAR
	11	6.3	11	106	1736
	12	6.3	5	VAR	VAR
	13	6.3	13	762	9920
	14	6.3	30	VAR	VAR
	15	6.3	31	414	12834
	16	6.3	15	VAR	VAR
	17	6.3	6	VAR	VAR
	18	6.3	29	384	11136
	19	6.3	23	VAR	VAR
	20	6.3	26	279	7912
	21	6.3	23	VAR	VAR
	22	6.3	5	486	2445
	23	6.3	27	VAR	VAR
	24	6.3	22	VAR	VAR
	25	10.0	46	754	36004
	26	10.0	29	317	9193
	27	10.0	32	346	11472
	28	10.0	35	306	10710
	29	10.0	32	648	20736
	30	10.0	20	489	9780
	31	10.0	16	317	5076
	32	10.0	6	414	2484
	33	10.0	36	606	18576
	34	10.0	19	495	9405
	35	12.5	32	497	23844
	36	12.5	36	846	23364
	37	12.5	32	686	15648
	38	12.5	24	538	12912

RESUMO DO AÇO			
ACD	DIAM (mm)	C. TOTAL (m)	PESO + 10% (kg)
CASO	6.3	1043.4	71.5
	8.0	1043.4	452.9
	10.0	1043.4	1031.9
PESO TOTAL (kg)		12.5	777.7
CASO		2379.6	824.1

Volume de concreto (C-30) = 90.03 m³
Área de forma = 580.89 m²

ARMAÇÃO POSITIVA DAS LAJES DO PAVIMENTO TÉRREO (EIXO X)
Escala 1/50

ARMADURA COM COMPRIMENTO VARIÁVEL				
Nº	QUANT	C. VAR (cm)	C. UNIT (cm)	C. TOTAL (cm)
A	1	35	35	35
B	1	37	37	37
C	1	81	81	81
D	1	102	102	102
E	1	123	123	123
F	1	145	145	145
G	1	166	166	166
H	1	188	188	188
I	1	209	209	209
J	1	230	230	230
K	1	252	252	252
L	1	273	273	273
M	1	294	294	294
N	1	315	315	315

ARMADURA COM COMPRIMENTO VARIÁVEL				
Nº	QUANT	C. VAR (cm)	C. UNIT (cm)	C. TOTAL (cm)
A	1	55	55	55
B	1	73	73	73
C	1	80	80	80
D	1	106	106	106
E	1	128	128	128
F	1	144	144	144
G	1	161	161	161
H	1	179	179	179
I	1	197	197	197
J	1	213	213	213
K	1	230	230	230
L	1	248	248	248
M	1	266	266	266
N	1	284	284	284
O	1	301	301	301
P	1	319	319	319
Q	1	337	337	337
R	1	355	355	355
S	1	373	373	373
T	1	391	391	391
U	1	409	409	409
V	1	427	427	427
W	1	445	445	445
X	1	463	463	463
Y	1	481	481	481
Z	1	499	499	499

ARMADURA COM COMPRIMENTO VARIÁVEL				
Nº	QUANT	C. VAR (cm)	C. UNIT (cm)	C. TOTAL (cm)
A	1	54	54	54
B	1	60	60	60
C	1	126	126	126
D	1	162	162	162
E	1	175	175	175

ARMADURA COM COMPRIMENTO VARIÁVEL				
Nº	QUANT	C. VAR (cm)	C. UNIT (cm)	C. TOTAL (cm)
A	1	58	58	58
B	1	75	75	75
C	1	110	110	110
D	1	128	128	128
E	1	146	146	146
F	1	163	163	163
G	1	181	181	181
H	1	199	199	199
I	1	216	216	216
J	1	234	234	234
K	1	251	251	251
L	1	269	269	269
M	1	287	287	287
N	1	305	305	305
O	1	322	322	322
P	1	340	340	340
Q	1	358	358	358
R	1	375	375	375
S	1	393	393	393
T	1	410	410	410
U	1	428	428	428
V	1	445	445	445
W	1	463	463	463
X	1	480	480	480
Y	1	498	498	498
Z	1	515	515	515

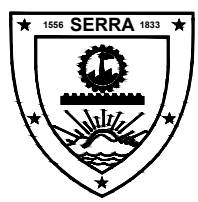
ARMADURA COM COMPRIMENTO VARIÁVEL				
Nº	QUANT	C. VAR (cm)	C. UNIT (cm)	C. TOTAL (cm)
A	1	51	51	51
B	1	73	73	73
C	1	85	85	85
D	1	112	112	112
E	1	136	136	136
F	1	161	161	161
G	1	183	183	183
H	1	205	205	205
I	1	227	227	227
J	1	249	249	249
K	1	271	271	271
L	1	293	293	293

ARMADURA COM COMPRIMENTO VARIÁVEL				
Nº	QUANT	C. VAR (cm)	C. UNIT (cm)	C. TOTAL (cm)
A	1	61	61	61
B	1	84	84	84
C	1	106	106	106
D	1	128	128	128
E	1	150	150	150
F	1	173	173	173
G	1	195	195	195
H	1	217	217	217
I	1	239	239	239
J	1	261	261	261

ARMADURA COM COMPRIMENTO VARIÁVEL				
Nº	QUANT	C. VAR (cm)	C. UNIT (cm)	C. TOTAL (cm)
A	1	54	54	54
B	1	74	74	74
C	1	97	97	97
D	1	116	116	116
E	1	136	136	136
F	1	156	156	156
G	1	161	161	161
H	1	182	182	182
I	1	204	204	204
J	1	225	225	225
K	1	247	247	247
L	1	269	269	269
M	1	291	291	291
N	1	311	311	311
O	1	332	332	332

ARMADURA COM COMPRIMENTO VARIÁVEL				
Nº	QUANT	C. VAR (cm)	C. UNIT (cm)	C. TOTAL (cm)
A	1	52	52	52
B	1	72	72	72
C	1	143	143	143
D	1	175	175	175
E	1	204	204	204

ARMADURA COM COMPRIMENTO VARIÁVEL				
Nº	QUANT	C. VAR (cm)	C. UNIT (cm)	C. TOTAL (cm)
A	1	58	58	58
B	1	77	77	77
C	1	96	96	96
D	1	116	116	116
E	1	134	134	134
F	1	153	153	153
G	1	172	172	172
H	1	191	191	191
I	1	210	210	210
J	1	229	229	229
K	1	248	248	248
L	1	267	267	267
M	1	286	286	286
N	1	305	305	305
O	1	324	324	324
P	1	343	343	343
Q	1	362	362	362
R	1	381	381	381
S	1	400	400	400
T	1	419	419	419
U	1	438	438	438
V	1	457	457	457
W	1	476	476	476



PREFEITURA MUNICIPAL DA SERRA
SEOB - SECRETARIA DE OBRAS
DEPARTAMENTO DE PROJETOS E OBRAS PÚBLICAS

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UNIDADE BÁSICA DE SAÚDE - PORTE IV
Rua Luciano Marques do Rosário, S/N, Nova Almeida - SERRA - ES

PROJETO ESTRUTURAL

AUTORIA DO PROJETO:

LANDY LUCAS SOARES COUTINHO
CREA ES-0050285/D

PROSUL

DATA: mai-26
ESCALA: XXXX
EDITORAÇÃO GRÁFICA: VERSÃO: 1.0

TÍTULO DOS DESENHOS: ARMAÇÃO POSITIVA DAS LAJES DO PAVIMENTO TÉRREO (EIXO X)
PRANCHAS: 07/09

DIREITOS AUTORAIS RESERVADOS. PROIBIDO REPRODUÇÃO, DIVULGAÇÃO OU ALTERAÇÃO SEM ORDEM EXPRESSA DO AUTOR.



RELAÇÃO DO AÇO

ACD	N	DIAM (mm)	QUANT	C. UNIT (cm)	C. TOTAL (cm)
CASO	J	8,5	24	VAR	VAR
	K	8,5	16	VAR	VAR
	L	8,5	16	VAR	VAR
	M	8,5	16	VAR	VAR
	N	8,5	30	231	6930
	O	8,5	20	122	2440
	P	8,5	15	278	4165
	Q	8,5	14	VAR	VAR
	R	8,5	20	220	4400
	S	8,5	12	305	3660
	T	8,5	24	133	3192
	U	8,5	14	VAR	VAR
	V	8,5	21	VAR	VAR
	W	8,5	38	512	19456
	X	8,5	4	206	824
	Y	8,5	30	184	5520
	Z	8,5	18	VAR	VAR
	AA	8,5	8	VAR	VAR
	AB	8,5	3	VAR	VAR
	AC	8,5	3	VAR	VAR
	AD	10,0	65	285	17225
	AE	10,0	36	788	29328
	AF	10,0	35	614	21490
	AG	10,0	46	244	11064
	AH	10,0	41	288	12216
	AI	10,0	23	428	9844
	AJ	10,0	31	VAR	VAR
	AK	10,0	46	532	24472
	AL	10,0	10	VAR	VAR
	AM	10,0	16	VAR	VAR
	AN	10,0	26	985	13802
	AO	12,5	68	614	41752
	AP	12,5	28	613	16767
	AQ	12,5	25	335	13375

RESUMO DO AÇO

AÇO	DIAM (mm)	C. TOTAL (cm)	PESO + 10% (kg)
CASO	8,5	3115	137,7
	8,5	677,3	294
	10,0	1720,7	1167
	12,5	795	741,8
PESO TOTAL (kg)			2340,5

Volume de concreto (C-30) = 0,00 m³
Área de forma = 0,00 m²

ARMAÇÃO POSITIVA DAS LAJES DO PAVIMENTO TÉRREO (EIXO Y)

Escala 1:50

N14	QUANT	C. VAR (cm)	C. UNIT (cm)	C. TOTAL (cm)
A	1	198	198	198
B	1	201	201	201
C	1	215	215	215
D	1	229	229	229
E	1	243	243	243
F	1	258	258	258
G	1	270	270	270
H	1	284	284	284
I	1	298	298	298
J	1	311	311	311
K	1	325	325	325
L	1	338	338	338
M	1	352	352	352
N	1	366	366	366
O	1	380	380	380
P	1	394	394	394
Q	1	407	407	407
R	1	421	421	421
S	1	435	435	435
T	1	449	449	449
U	1	462	462	462

N1	QUANT	C. VAR (cm)	C. UNIT (cm)	C. TOTAL (cm)
A	1	29	29	29
B	1	47	47	47
C	1	64	64	64
D	1	81	81	81
E	1	98	98	98
F	1	115	115	115
G	1	132	132	132
H	1	150	150	150
I	1	167	167	167
J	1	184	184	184
K	1	201	201	201
L	1	219	219	219
M	1	236	236	236
N	1	253	253	253
O	1	270	270	270
P	1	287	287	287
Q	1	305	305	305
R	1	322	322	322
S	1	339	339	339
T	1	356	356	356
U	1	373	373	373
V	1	390	390	390
W	1	408	408	408
X	1	425	425	425

N18	QUANT	C. VAR (cm)	C. UNIT (cm)	C. TOTAL (cm)
A	1	213	213	213
B	1	240	240	240
C	1	259	259	259
D	1	278	278	278
E	1	297	297	297
F	1	316	316	316
G	1	335	335	335
H	1	354	354	354
I	1	373	373	373
J	1	392	392	392

ARMADILHA COM CONTEÚDO VARIÁVEL				
N29	QUANT	C. VAR (cm)	C. UNIT (cm)	C. TOTAL (cm)
A	1	85	85	85
B	1	101	101	101
C	1	117	117	117
D	1	133	133	133
E	1	149	149	149
F	1	165	165	165
G	1	181	181	181
H	1	197	197	197
I	1	213	213	213
J	1	229	229	229
K	1	245	245	245
L	1	273	273	273
M	1	293	293	293
N	1	313	313	313
O	1	333	333	333
P	1	353	353	353
Q	1	389	389	389
R	1	389	389	389
S	1	406	406	406
T	1	425	425	425
U	1	445	445	445
V	1	464	464	464
W	1	483	483	483
X	1	502	502	502
Y	1	521	521	521
Z	1	540	540	540
AA	1	559	559	559
AB	1	578	578	578
AC	1	597	597	597
AD	1	616	616	616
AE	1	635	635	635

