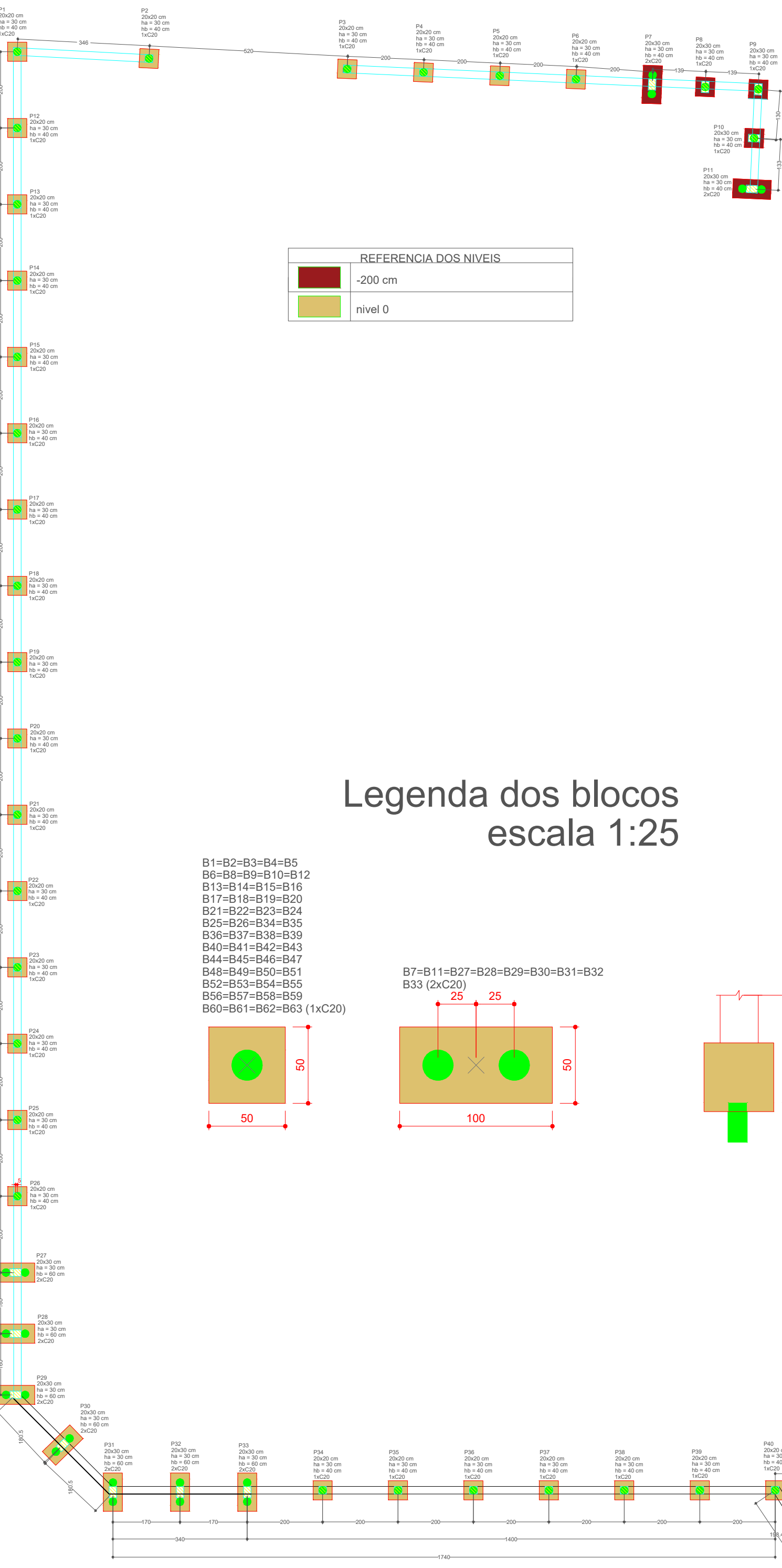
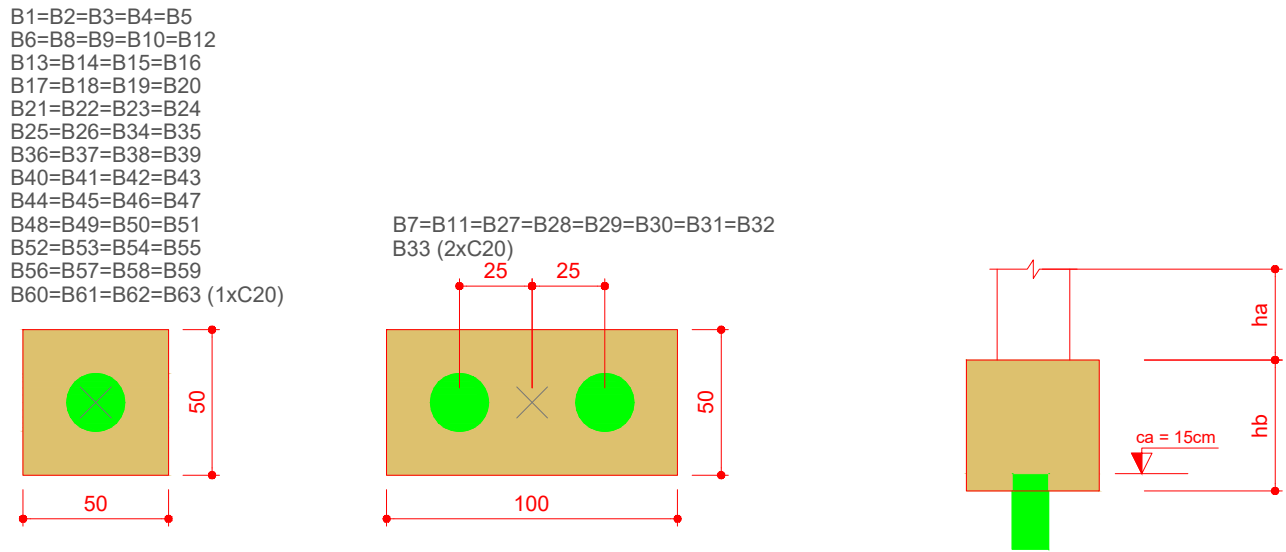


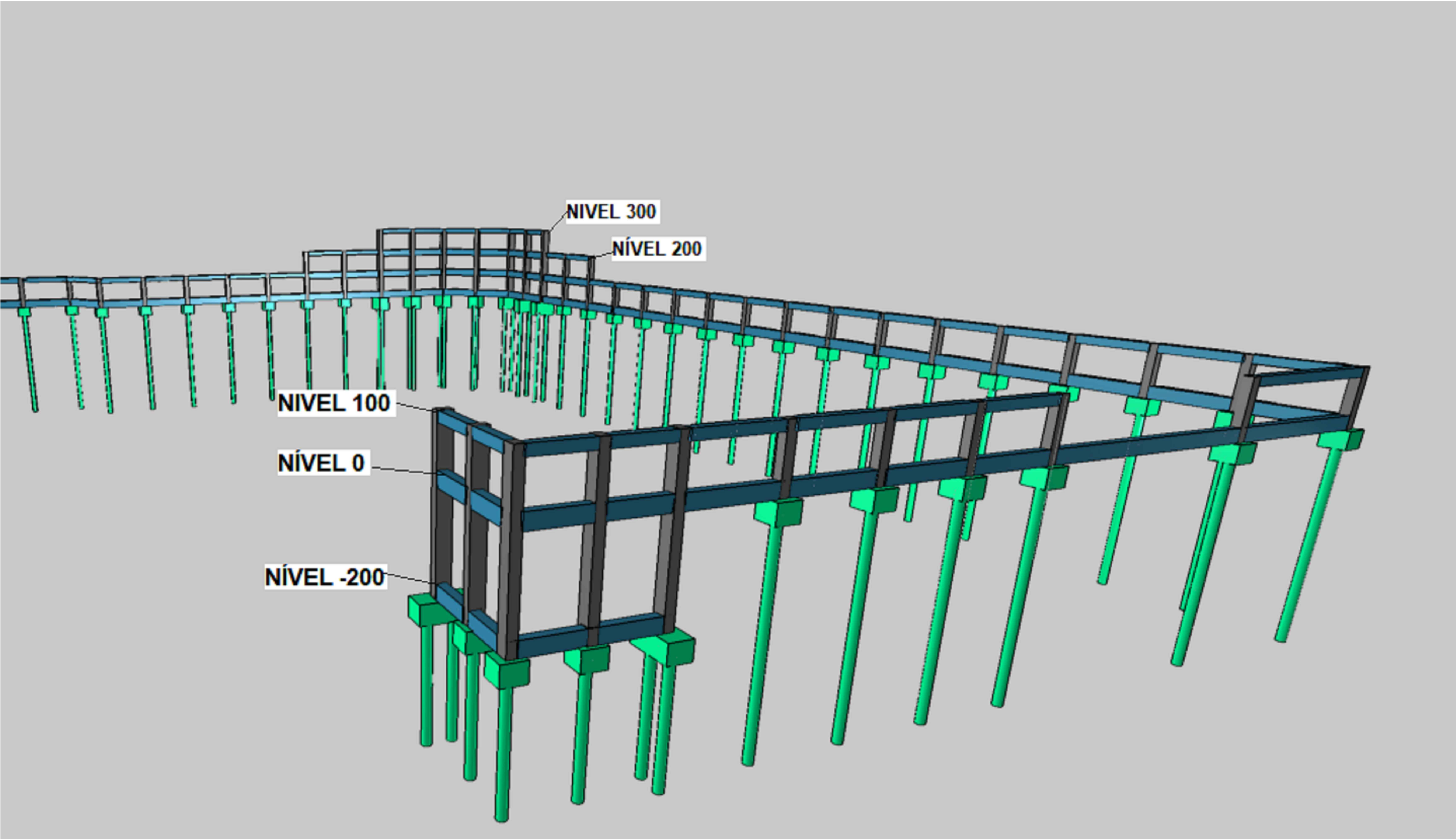
PLANTA DE LOCAÇÃO - escala 1:100



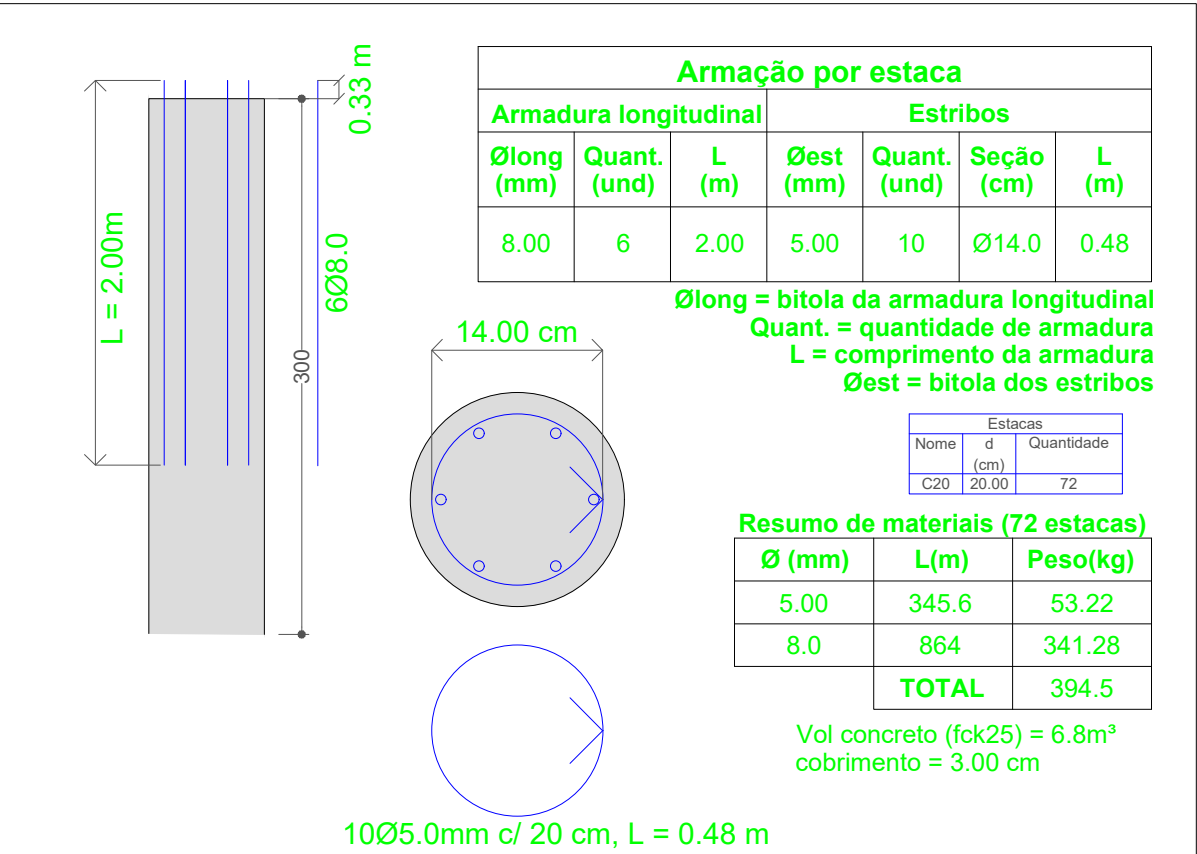
Legenda dos blocos
escala 1:25



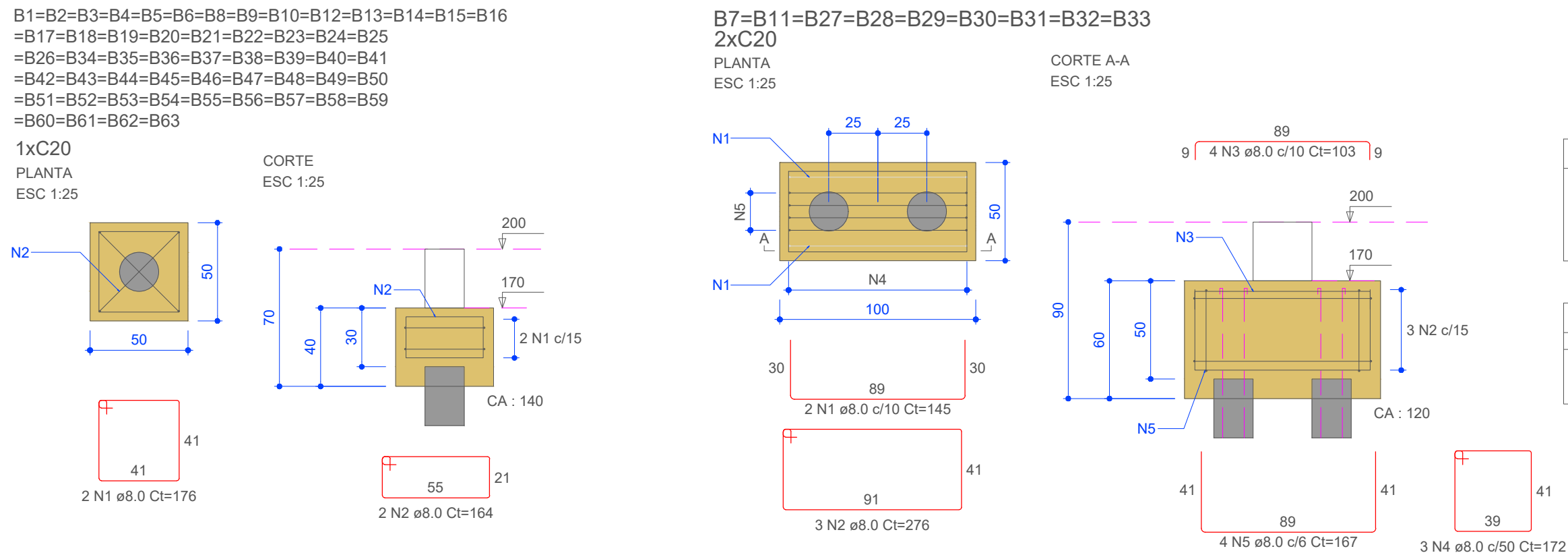
DETALHE EM 3D DO PÓRTICO DA ESTRUTURA



DETALHAMENTO DA ARMADURA DAS ESTACAS
ESTACAS ESCAVADA MANUALMENTE 72xR20 - PROFUNDIDADE=3 m

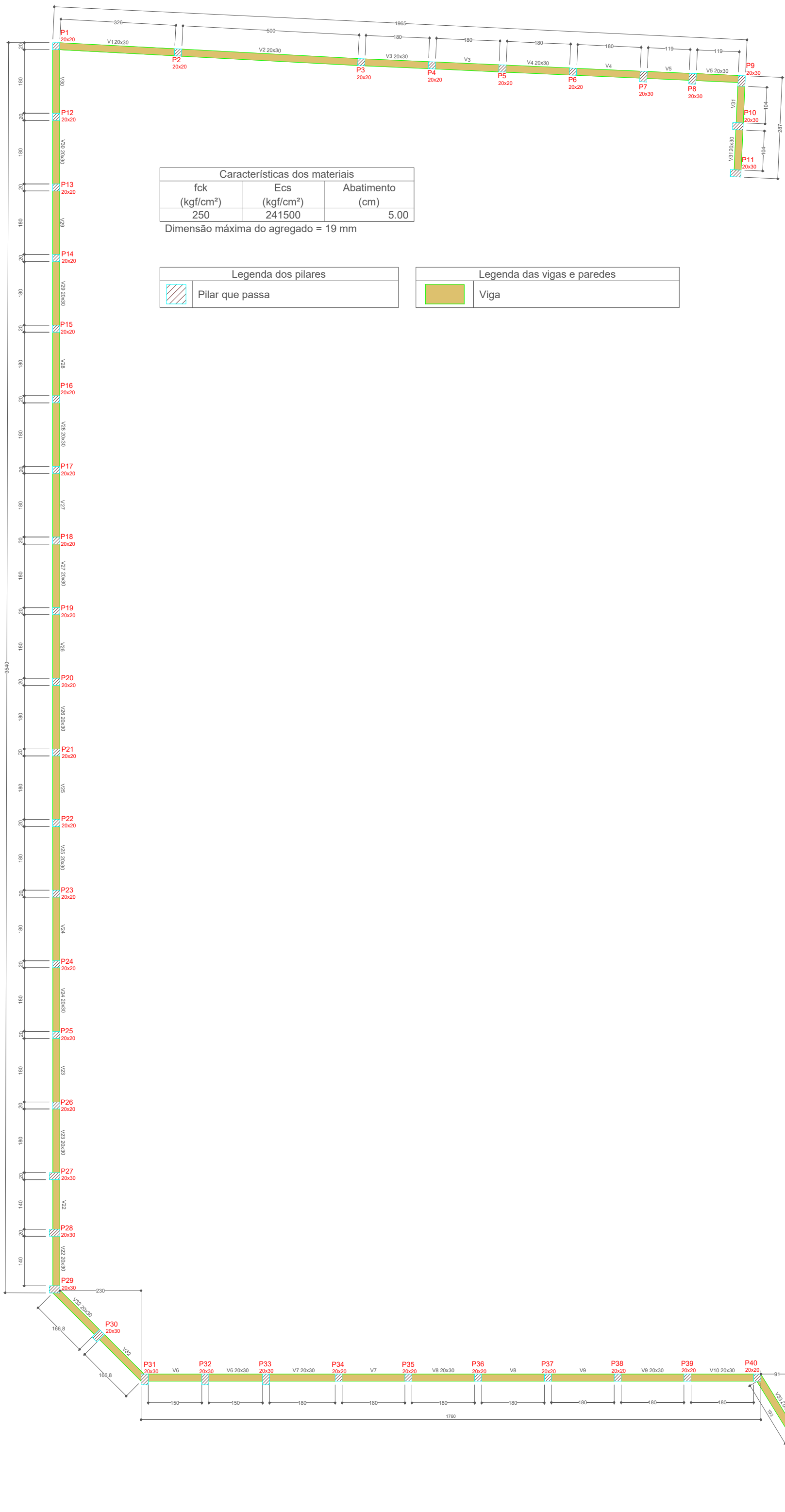


DETALHAMENTO DOS BLOCOS - Escala 1:50

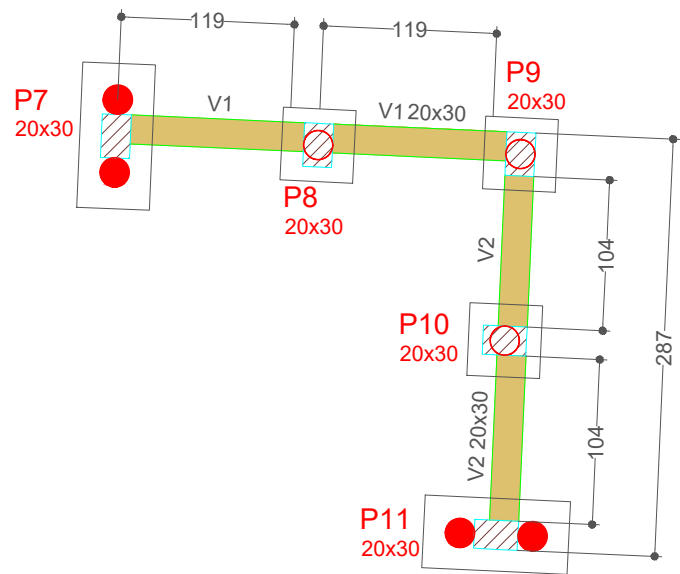


RELAÇÃO DO AÇO					
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C TOTAL (cm)
9x B33	CA50	1	8.0	18	145
	CA50	2	8.0	27	216
	CA50	3	8.0	36	288
	CA50	4	8.0	27	216
	CA50	5	8.0	36	288
	CA50	1	8.0	108	864
	CA50	2	8.0	108	864
RESUMO DO AÇO					
AÇO	DIAM (mm)	C TOTAL (m)	QUANT + 0%	PESO + 0%	
CA50	8.0	611.5	51	241.3	
PESO TOTAL (kg)					
CA50	241.3				
Volume de concreto (C-25) = 7.87 m³					
Área de forma = 58.40 m²					

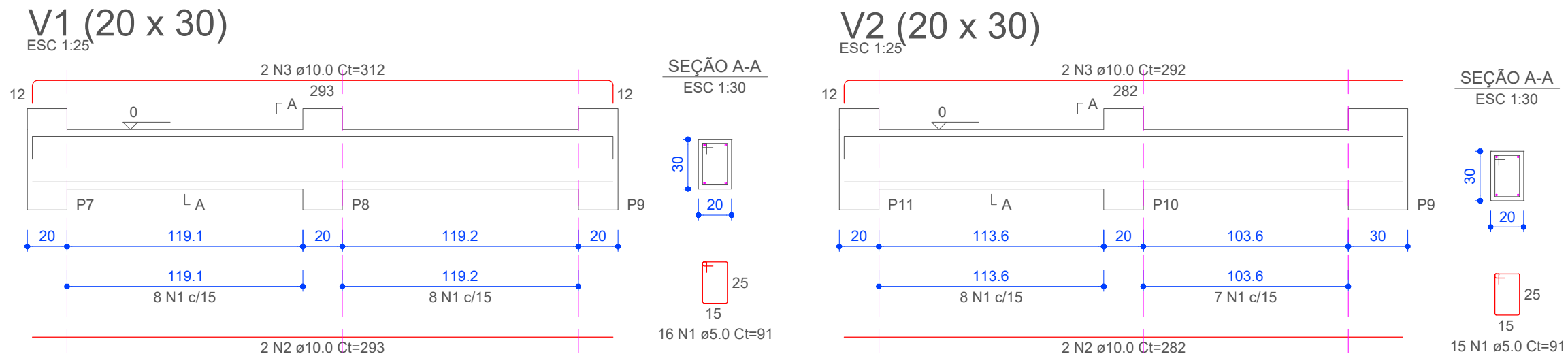
PLANTA DE FORMA DA BALDRAME - NÍVEL 0 - Escala 1:100



PLANTA DE FORMA DO NÍVEL -200 - Escala 1:50



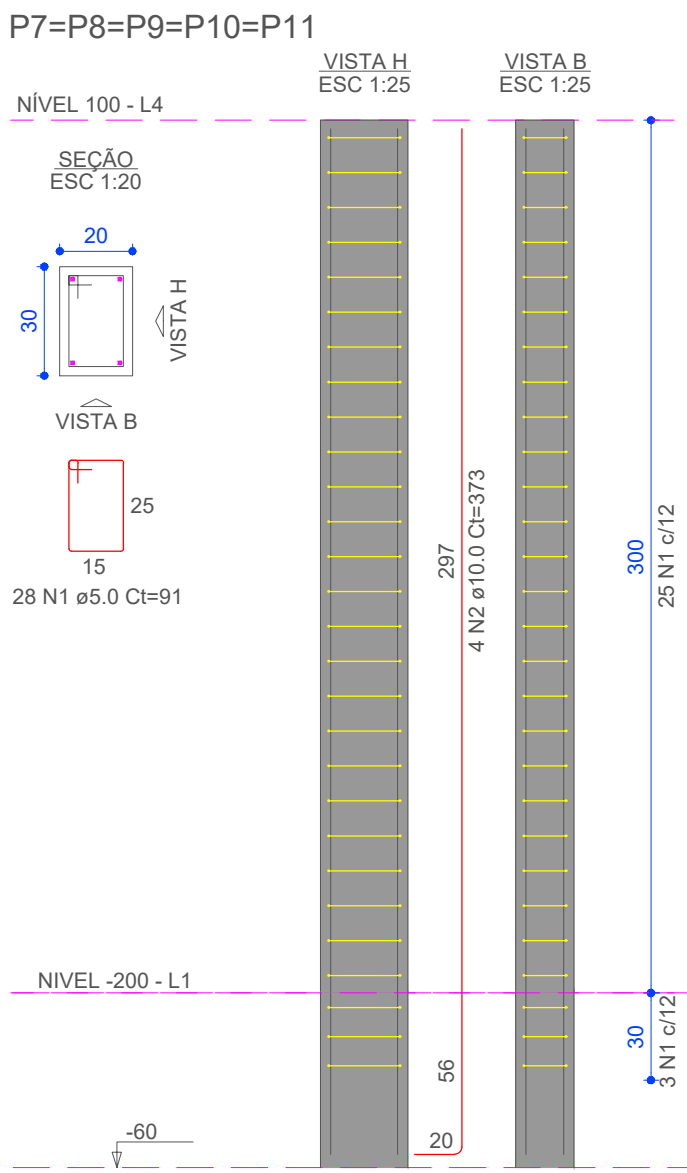
VIGAS DO NÍVEL -200 - Escala 1:50



RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V1	CA60	1	5.0	16	91	1456
	CA50	2	10.0	2	293	586
	CA50	3	10.0	2	312	624
V2	CA60	1	5.0	15	91	1365
	CA50	2	10.0	2	282	564
	CA50	3	10.0	2	292	584

RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	10.0	23.6	2	14.5
CA60	5.0	28.2	-	4.3
PESO TOTAL (kg)		Volume de concreto (C-25) = 0.27 m³		
CA50	14.5	Área de forma = 3.64 m²		
CA60	4.3			

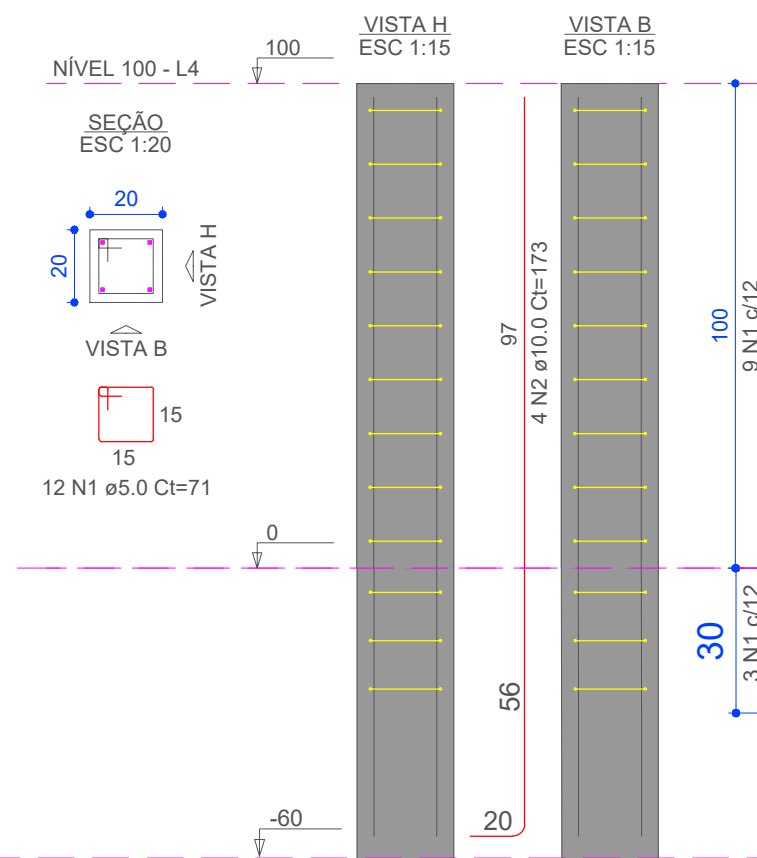
PILARES DO NÍVEL -200 - Escala 1:50



RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
5xP7	CA60	1	5.0	140	91	12740
	CA50	2	10.0	20	373	7460

RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	10.0	74.6	7	51.24
CA60	5.0	127.4	-	19.61
PESO TOTAL (kg)		Volume de concreto (C-25) = 1 m³		
CA50	51.24	Área de forma = 15.00 m²		
CA60	19.6			

P1=P2=P3=P4=P5=P6=
=P12=P13=P14=P15=
=P16=P17=P18=P19=
=P20=P21=P22=P23=
=P24=P36=P37=P38=
=P39=P40=P41=P42=
=P43=P44=P45=P46=
=P47=P48=P49=P50=
=P51=P52=P53=P54=
=P55=P56=P57=P58=
=P59=P60=P61=P62=P63

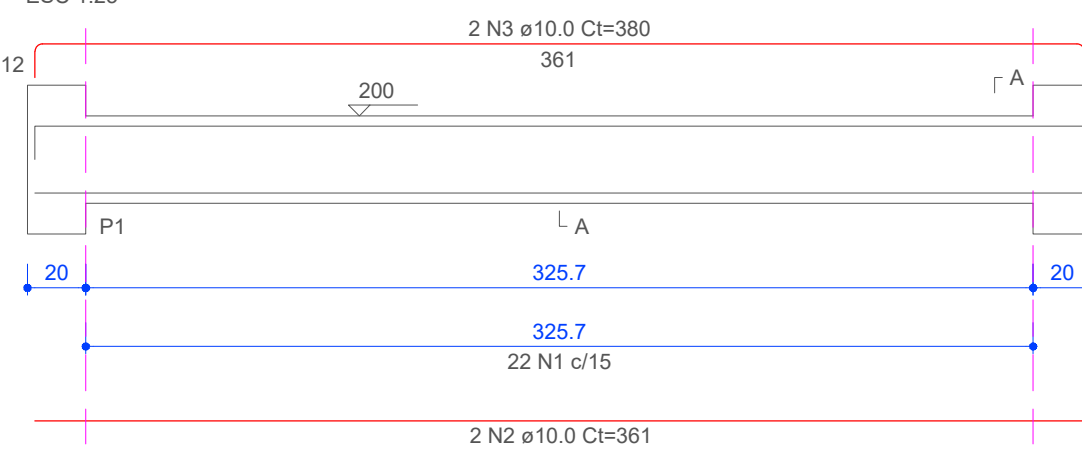


ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
47xP1	CA60	1	5.0	564	71	40044
	CA50	2	10.0	188	173	32524

RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	10.0	400.45	34	238.85
CA60	5.0	325.24	-	50.08
PESO TOTAL (kg)				
CA50	238.85			
CA60	50.08			

Volume de concreto (C-25) = 2.0 m³
Área de forma = 37.60 m²

V1 (20 x 30)
ESC 1:25



Technical drawing of a mechanical part showing a cross-section. The drawing includes the following dimensions and specifications:

- Top horizontal dimension: 2 N3 ø10.0 Ct=554
- Top horizontal dimension: 535
- Top horizontal dimension: 200
- Left vertical dimension: 12
- Left vertical dimension: 20
- Bottom horizontal dimension: 500
- Bottom horizontal dimension: 500
- Bottom horizontal dimension: 34 N1 c/15
- Bottom horizontal dimension: 2 N2 ø10.0 Ct=535
- Internal feature label: P2
- Internal feature label: L A

Timing diagram for the 2N3 tube. The diagram shows a horizontal timeline with various signal levels and durations. At the top, a red line is labeled "2 N3 ±10.0 Ct=434". Below it, a black line has a step up labeled "12" and a step down labeled "200". A label "P3" is at the start of the step down, and "P4" is at the start of the step up. A label "Γ A" is at the end of the step up. Below the black line, a blue line has a step up labeled "20" and a step down labeled "20". A label "L A" is at the end of the step down. Below the blue line, a green line has a step up labeled "180" and a step down labeled "180". A label "13 N1 c/15" is at the end of the step down. At the bottom, a red line is labeled "2 N2 ±10.0 Ct=415".

Technical drawing of a reinforced concrete slab (L.01) showing top and side views with dimensions and reinforcement details.

Top View Dimensions:

- Overall width: 2 N3 e10.0 C1=312
- Overall length: 2 N2 e10.0 C1=293
- Internal width dimension: 119.1
- Internal length dimension: 119.2
- Reinforcement spacing: 8 N1 c/15
- Reinforcement diameter: 12
- Reinforcement type: P7, P8, P9
- Reinforcement type: 200
- Reinforcement type: 200
- Reinforcement type: 200

Side View Dimensions:

- Overall height: 30
- Internal height dimension: 20
- Reinforcement diameter: 15
- Reinforcement type: 16 N1 e5.0

Section Labels:

- SEÇÃO 1-1
- ESC 1:3

Technical drawing of a mechanical part showing two views: a top view and a side view.

Top View:

- Overall dimensions: 200 (width) x 367 (depth).
- Central rectangular hole: 156 (width) x 156 (depth).
- Positioning: 20 units from the left and right edges.
- Labels: 2 N3 ø10.0 C1=366 (top), 2 N2 ø10.0 C1=367 (bottom).

Side View:

- Overall height: 12.
- Central rectangular hole: 156 (width) x 156 (depth).
- Positioning: 20 units from the left and right edges.
- Labels: P31, P32 (top), 11 N1 ø15 (bottom).

ESG 1.20

12

200

410

2 N3 s10.0 Ct=429

P35

L A

P36

20

177.6

177.6

12 N1 c/15

12 N1 c/15

2 N2 s10.0 Ct=410

Technical drawing of a metal structure with dimensions and a section view.

Top View Dimensions:

- Overall width: 213
- Overall length: 2 N3 ϕ 10.0 Ct=232
- Distance from left edge to center of first hole: 200
- Distance between hole centers: 177.6
- Distance from center of last hole to right edge: 200
- Distance from left edge to center of last hole: 177.6
- Distance between hole centers (alternative): 12 N1 ϕ 15
- Overall length (alternative): 2 N2 ϕ 10.0 Ct=213

Section View (SEÇÃO A-A):

- Scale: ESC 1:30
- Section A-A shows a cross-section of the structure.
- Dimensions for the section view:
 - Overall height: 30
 - Width of the section: 20
 - Height of the top flange: 25
 - Height of the web: 15
- Section A-A is labeled with 12 N1 ϕ 5.0 Ct=91.

[illegible]

Technical drawing of a mechanical part showing a cross-section with dimensions and tolerances. The drawing includes a top view and a side view. The top view shows a rectangular part with a central hole. The side view shows the profile of the part with a fillet radius. Dimensions and tolerances are indicated throughout the drawing.

Dimensions and Tolerances:

- Top View:
 - Overall width: 200
 - Overall height: 12
 - Central hole diameter: $\varnothing 10.0$ C1=434
 - Distance from left edge to hole center: 20
 - Distance from hole center to right edge: 180
 - Distance from left edge to hole center: 180
 - Distance from hole center to right edge: 20
 - Distance from left edge to hole center: 180
 - Distance from hole center to right edge: 180
 - Distance from left edge to hole center: 12 N1 c/15
 - Distance from hole center to right edge: 12 N1 c/15
- Side View:
 - Overall height: 12
 - Distance from top edge to hole center: 415
 - Distance from hole center to bottom edge: 20
 - Distance from hole center to bottom edge: 180
 - Distance from hole center to bottom edge: 180
 - Distance from hole center to bottom edge: 12 N1 c/15

Notes:

- 2 N2 $\varnothing 10.0$ C1=415
- 2 N3 $\varnothing 10.0$ C1=434
- 2 N4 $\varnothing 10.0$ C1=415
- 2 N5 $\varnothing 10.0$ C1=434
- 2 N6 $\varnothing 10.0$ C1=415
- 2 N7 $\varnothing 10.0$ C1=434
- 2 N8 $\varnothing 10.0$ C1=415
- 2 N9 $\varnothing 10.0$ C1=434
- 2 N10 $\varnothing 10.0$ C1=415
- 2 N11 $\varnothing 10.0$ C1=434
- 2 N12 $\varnothing 10.0$ C1=415
- 2 N13 $\varnothing 10.0$ C1=434
- 2 N14 $\varnothing 10.0$ C1=415
- 2 N15 $\varnothing 10.0$ C1=434
- 2 N16 $\varnothing 10.0$ C1=415
- 2 N17 $\varnothing 10.0$ C1=434
- 2 N18 $\varnothing 10.0$ C1=415
- 2 N19 $\varnothing 10.0$ C1=434
- 2 N20 $\varnothing 10.0$ C1=415
- 2 N21 $\varnothing 10.0$ C1=434
- 2 N22 $\varnothing 10.0$ C1=415
- 2 N23 $\varnothing 10.0$ C1=434
- 2 N24 $\varnothing 10.0$ C1=415
- 2 N25 $\varnothing 10.0$ C1=434
- 2 N26 $\varnothing 10.0$ C1=415
- 2 N27 $\varnothing 10.0$ C1=434
- 2 N28 $\varnothing 10.0$ C1=415
- 2 N29 $\varnothing 10.0$ C1=434
- 2 N30 $\varnothing 10.0$ C1=415
- 2 N31 $\varnothing 10.0$ C1=434
- 2 N32 $\varnothing 10.0$ C1=415
- 2 N33 $\varnothing 10.0$ C1=434
- 2 N34 $\varnothing 10.0$ C1=415
- 2 N35 $\varnothing 10.0$ C1=434
- 2 N36 $\varnothing 10.0$ C1=415
- 2 N37 $\varnothing 10.0$ C1=434
- 2 N38 $\varnothing 10.0$ C1=415
- 2 N39 $\varnothing 10.0$ C1=434
- 2 N40 $\varnothing 10.0$ C1=415
- 2 N41 $\varnothing 10.0$ C1=434
- 2 N42 $\varnothing 10.0$ C1=415
- 2 N43 $\varnothing 10.0$ C1=434
- 2 N44 $\varnothing 10.0$ C1=415
- 2 N45 $\varnothing 10.0$ C1=434
- 2 N46 $\varnothing 10.0$ C1=415
- 2 N47 $\varnothing 10.0$ C1=434
- 2 N48 $\varnothing 10.0$ C1=415
- 2 N49 $\varnothing 10.0$ C1=434
- 2 N50 $\varnothing 10.0$ C1=415
- 2 N51 $\varnothing 10.0$ C1=434
- 2 N52 $\varnothing 10.0$ C1=415
- 2 N53 $\varnothing 10.0$ C1=434
- 2 N54 $\varnothing 10.0$ C1=415
- 2 N55 $\varnothing 10.0$ C1=434
- 2 N56 $\varnothing 10.0$ C1=415
- 2 N57 $\varnothing 10.0$ C1=434
- 2 N58 $\varnothing 10.0$ C1=415
- 2 N59 $\varnothing 10.0$ C1=434
- 2 N60 $\varnothing 10.0$ C1=415
- 2 N61 $\varnothing 10.0$ C1=434
- 2 N62 $\varnothing 10.0$ C1=415
- 2 N63 $\varnothing 10.0$ C1=434
- 2 N64 $\varnothing 10.0$ C1=415
- 2 N65 $\varnothing 10.0$ C1=434
- 2 N66 $\varnothing 10.0$ C1=415
- 2 N67 $\varnothing 10.0$ C1=434
- 2 N68 $\varnothing 10.0$ C1=415
- 2 N69 $\varnothing 10.0$ C1=434
- 2 N70 $\varnothing 10.0$ C1=415
- 2 N71 $\varnothing 10.0$ C1=434
- 2 N72 $\varnothing 10.0$ C1=415
- 2 N73 $\varnothing 10.0$ C1=434
- 2 N74 $\varnothing 10.0$ C1=415
- 2 N75 $\varnothing 10.0$ C1=434
- 2 N76 $\varnothing 10.0$ C1=415
- 2 N77 $\varnothing 10.0$ C1=434
- 2 N78 $\varnothing 10.0$ C1=415
- 2 N79 $\varnothing 10.0$ C1=434
- 2 N80 $\varnothing 10.0$ C1=415
- 2 N81 $\varnothing 10.0$ C1=434
- 2 N82 $\varnothing 10.0$ C1=415
- 2 N83 $\varnothing 10.0$ C1=434
- 2 N84 $\varnothing 10.0$ C1=415
- 2 N85 $\varnothing 10.0$ C1=434
- 2 N86 $\varnothing 10.0$ C1=415
- 2 N87 $\varnothing 10.0$ C1=434
- 2 N88 $\varnothing 10.0$ C1=415
- 2 N89 $\varnothing 10.0$ C1=434
- 2 N90 $\varnothing 10.0$ C1=415
- 2 N91 $\varnothing 10.0$ C1=434
- 2 N92 $\varnothing 10.0$ C1=415
- 2 N93 $\varnothing 10.0$ C1=434
- 2 N94 $\varnothing 10.0$ C1=415
- 2 N95 $\varnothing 10.0$ C1=434
- 2 N96 $\varnothing 10.0$ C1=415
- 2 N97 $\varnothing 10.0$ C1=434
- 2 N98 $\varnothing 10.0$ C1=415
- 2 N99 $\varnothing 10.0$ C1=434
- 2 N100 $\varnothing 10.0$ C1=415

Technical drawing of a mechanical part showing a cross-section with dimensions and tolerances. The drawing includes the following specifications:

- Top Dimension:** 2 N3 ± 0.0 CI=434
- Left Dimension:** 12
- Internal Dimension:** 200
- Right Dimension:** 415
- Section Line:** A
- Internal Features:** P45, L A, P46
- Bottom Dimensions:**
 - 20
 - 180
 - 12 N1 c/15
 - 20
 - 180
 - 13 N1 c/15
- Bottom Dimension:** 2 N2 ± 0.0 CI=415

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions and tolerances.

Dimensions and Tolerances:

- Overall width: 200
- Overall height: 12
- Top flange width: 20
- Top flange height: 180
- Top flange radius: $R\ 415$
- Central cutout width: 20
- Central cutout height: 180
- Central cutout radius: $R\ 20$
- Bottom flange width: 20
- Bottom flange height: 180
- Bottom flange radius: $R\ 415$
- Bottom flange tolerance: $2\ N2\ \pm 0.0\ Ct=415$
- Top flange tolerance: $2\ N3\ \pm 0.0\ Ct=434$
- Central cutout tolerance: $12\ N1\ \pm 0.15$
- Bottom flange tolerance: $13\ N1\ \pm 0.15$

Section lines and labels:

- Section line A-A (horizontal)
- Section line P49-P50 (vertical)

Technical drawing of a mechanical part showing a cross-section with dimensions and tolerances. The drawing includes a top view and a side view. The top view shows a rectangular part with a central hole. The side view shows the profile of the part with a fillet radius. Dimensions and tolerances are indicated throughout the drawing.

Dimensions and Tolerances:

- Top View:
 - Overall width: 12
 - Overall height: 20
 - Inner width: 20
 - Inner height: 180
 - Distance from inner width to outer width: 180
 - Distance from inner height to outer height: 180
 - Inner hole diameter: 2 N3 ± 0.0 Ct=434
 - Inner hole diameter: 2 N2 ± 0.0 Ct=415
- Side View:
 - Overall height: 12
 - Overall width: 200
 - Inner width: 20
 - Inner height: 180
 - Distance from inner width to outer width: 180
 - Distance from inner height to outer height: 180
 - Inner hole diameter: 2 N3 ± 0.0 Ct=434
 - Inner hole diameter: 2 N2 ± 0.0 Ct=415

Technical drawing of a mechanical part showing two views: a top view (top) and a side view (bottom).

Top View:

- Overall width: 200
- Central slot width: 415
- Distance from center to right edge: 180
- Part label: 2 N3 ø10.0 Ct=434

Side View:

- Overall height: 12
- Central slot depth: 20
- Distance from center to right edge: 180
- Part label: 2 N2 ø10.0 Ct=415

Technical drawing of a mechanical part showing a cross-section with dimensions and tolerances. The drawing includes a top view and a side view. The top view shows a rectangular part with a central slot. The side view shows the profile of the part with a central slot. Dimensions and tolerances are indicated throughout the drawing.

Key dimensions and tolerances shown in the drawing:

- Top view: 12 (width), 200 (length), 2 N3 $\phi 10.0$ C1=588 (top holes), 569 (top hole diameter), 18 N1 c/15 (bottom holes), 256.8 (bottom hole diameter), 20 (bottom hole diameter), 256.8 (bottom hole diameter).
- Side view: 20 (width), 256.8 (height), 2 N2 $\phi 10.0$ C1=569 (bottom holes), 569 (bottom hole diameter), 20 (bottom hole diameter), 256.8 (bottom hole diameter).

Technical drawing of a roof plan showing structural details and dimensions. The drawing includes a main roof area with a width of 200 units and a length of 336 units. A section line A-A is indicated. The drawing shows a cross-section of the roof structure with a 12% slope. The roof is supported by a concrete slab (P29) and a steel beam (P28). The roof is finished with a 200 mm thick concrete layer (2 N3 ø10.0 C1=355) and a 140 mm thick concrete layer (10 N1 c/15). The roof is also shown with a 20 mm thick concrete layer (2 N2 ø10.0 C1=336). The drawing includes a section line A-A and a section line B-B. The drawing is labeled with dimensions and material specifications.

ESC 1:25

12

200

2 N3 e10.0 Ct=434

415

P27

L A

P26

20

180

20

180

180

13 N1 c/15

180

13 N1 c/15

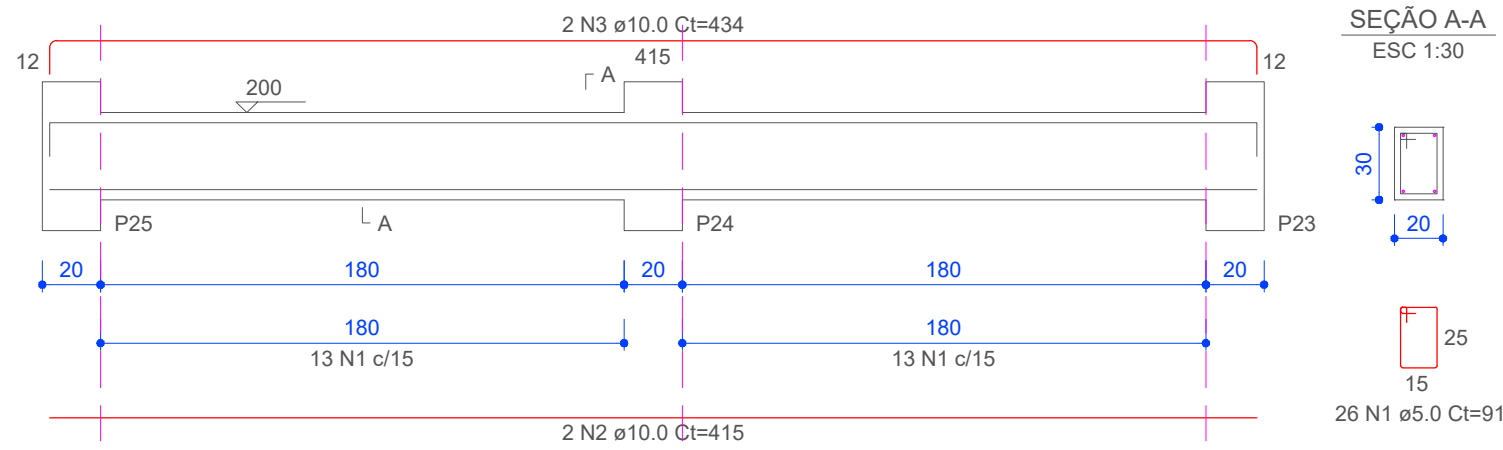
1

2 N2 e10.0 Ct=415

VIGAS DO NIVEL 0 - Escala 1:50 Continuação

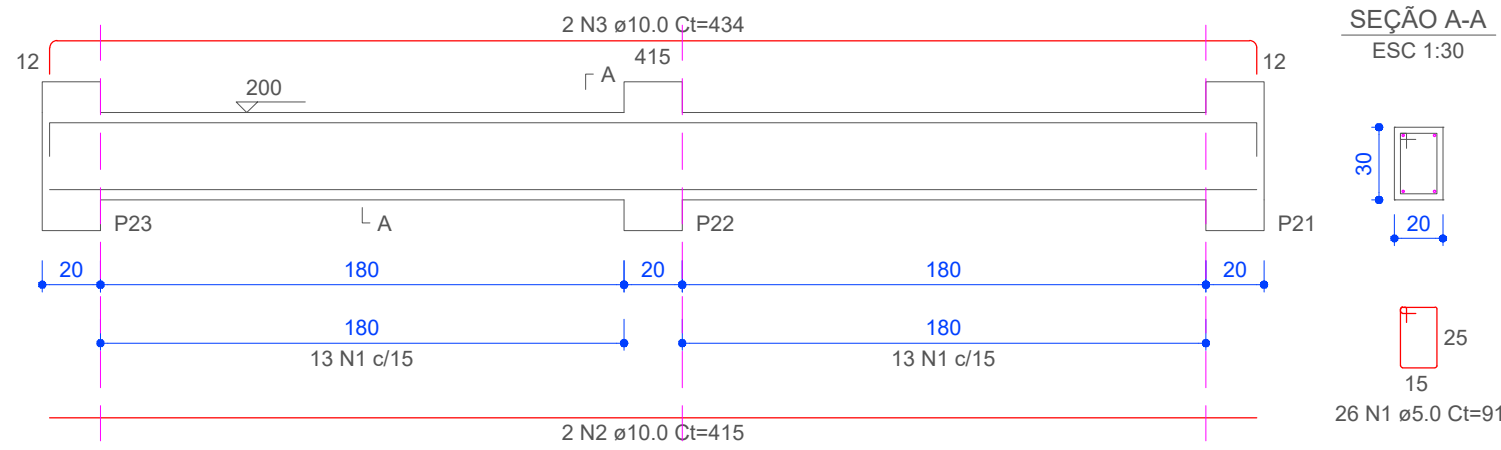
V24 (20 x 30)

ESC 1:25



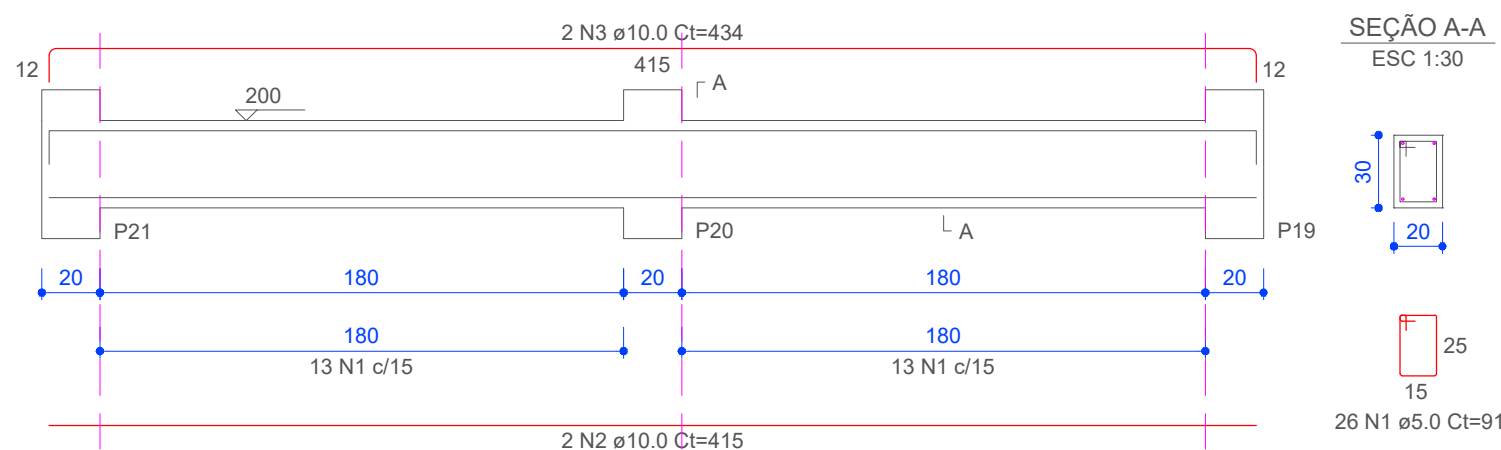
V25 (20 x 30)

ESC 1:25



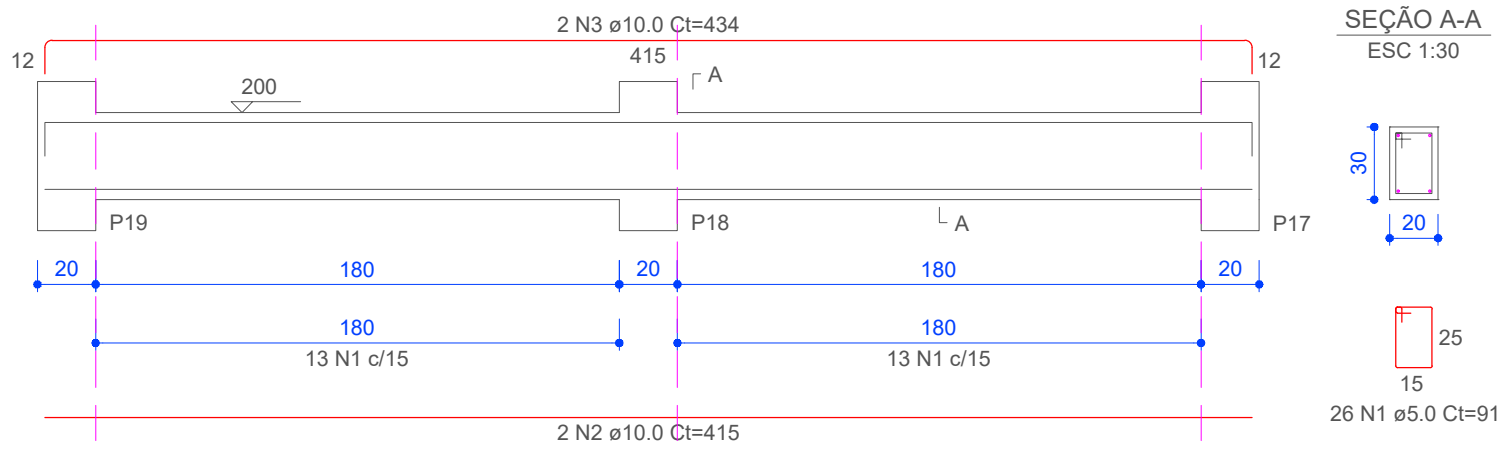
V26 (20 x 30)

ESC 1:25



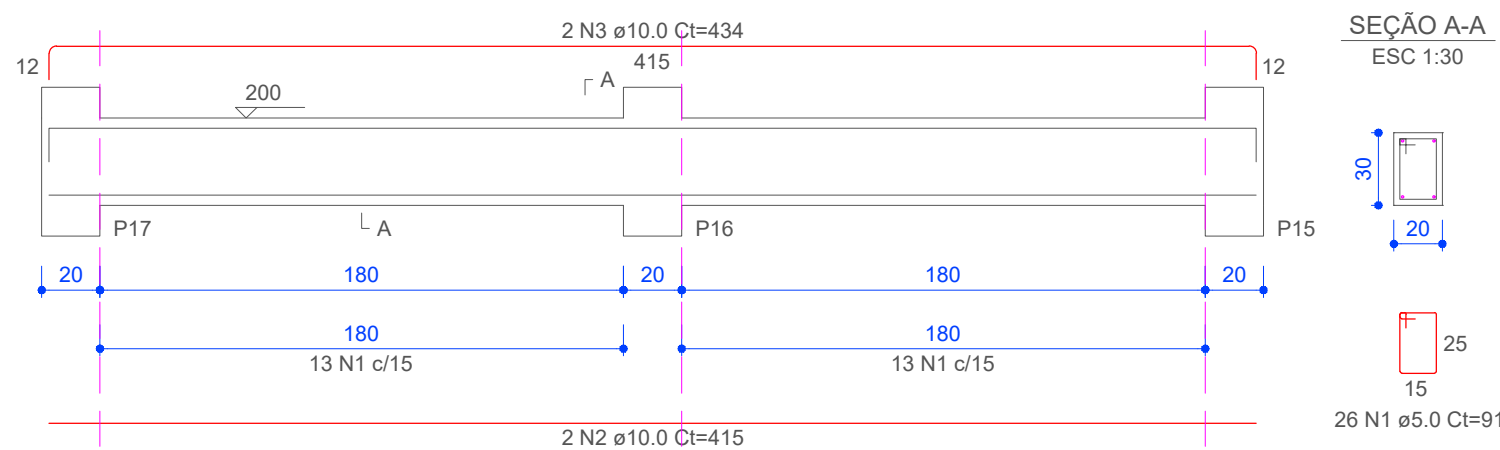
V27 (20 x 30)

ESC 1:25



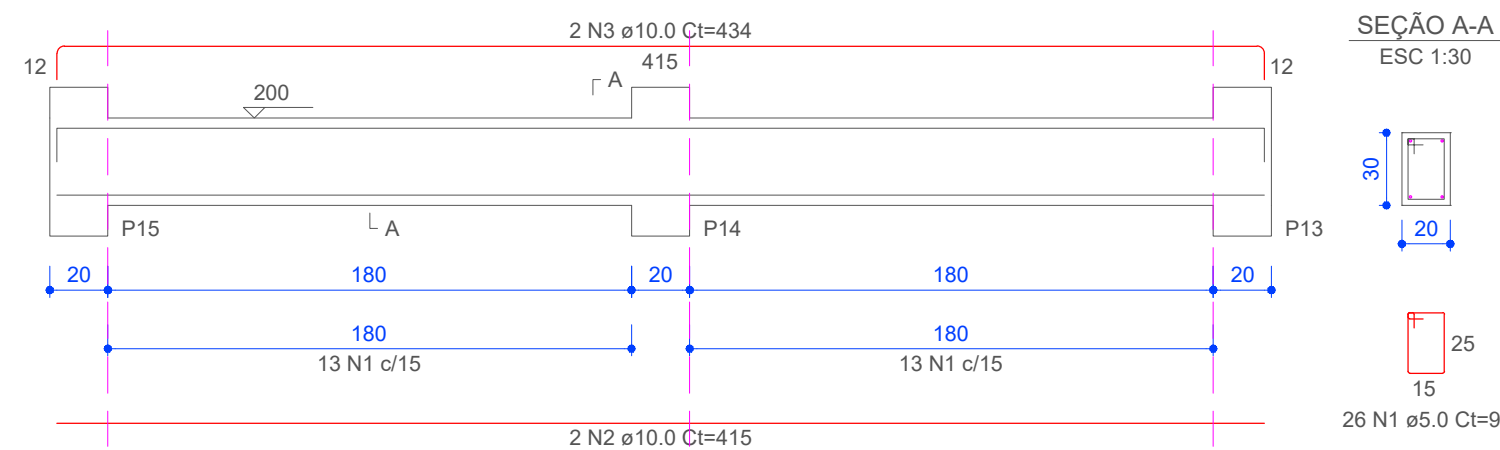
V28 (20 x 30)

ESC 1:25



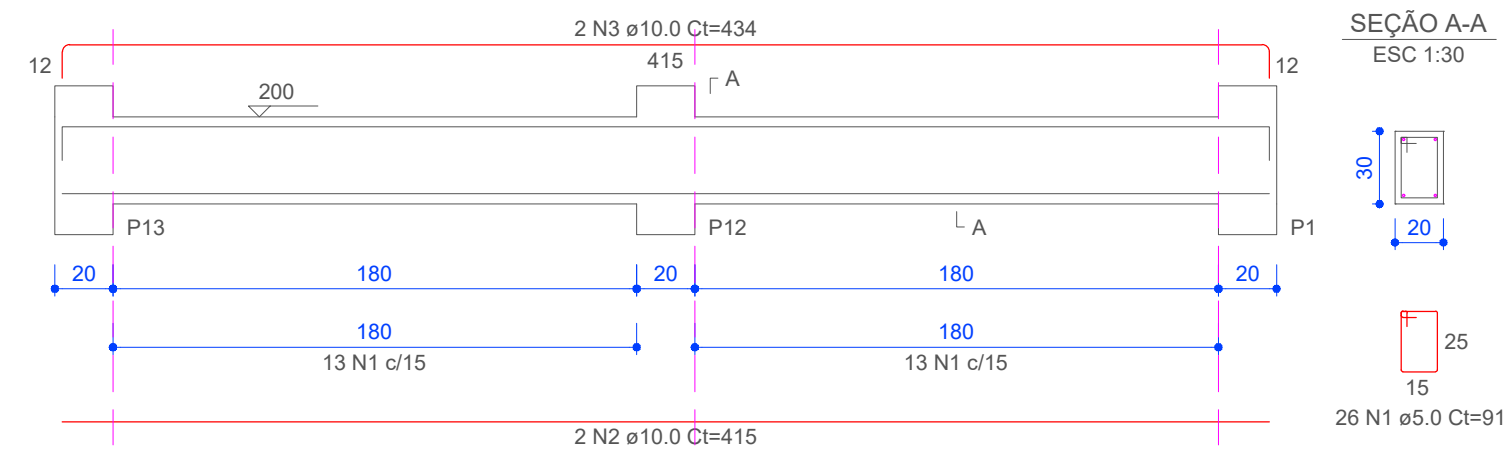
V29 (20 x 30)

ESC 1:25



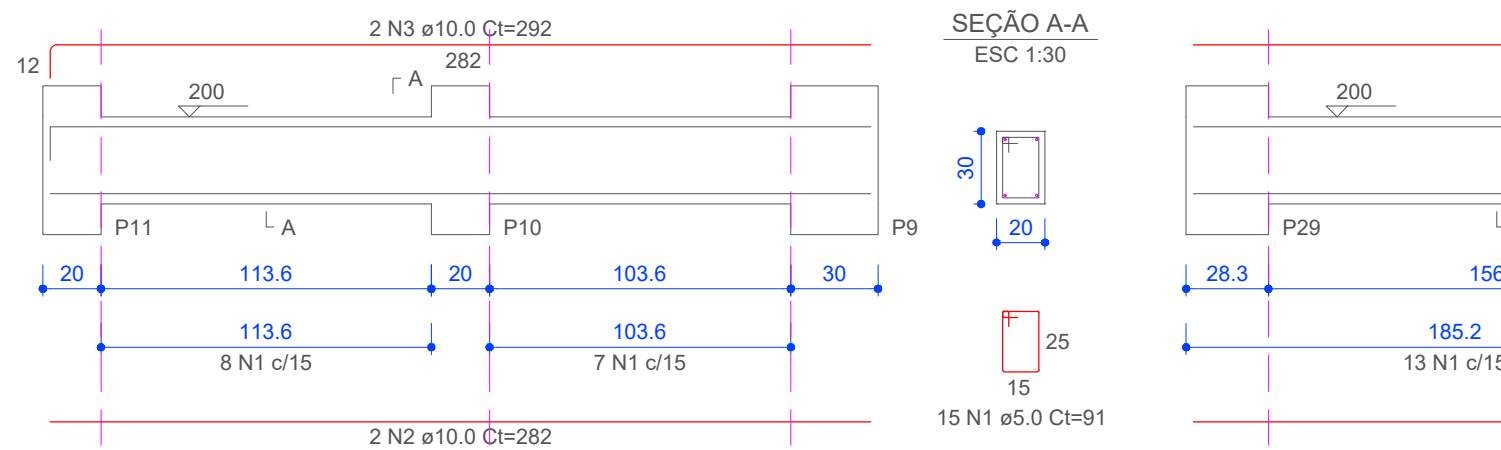
V30 (20 x 30)

ESC 1:25



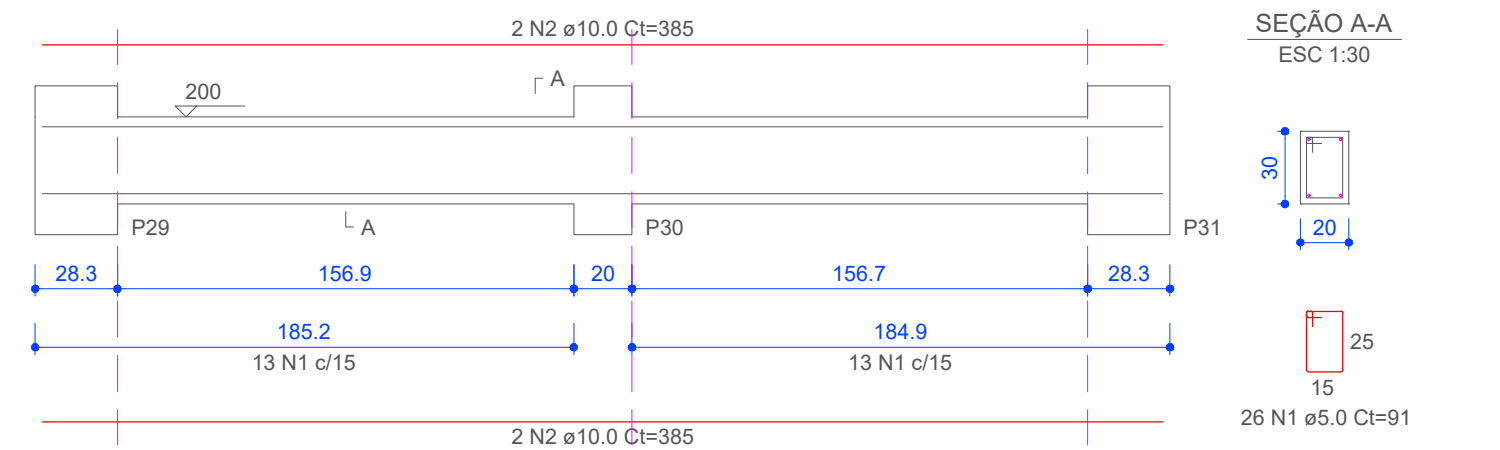
V31 (20 x 30)

ESC 1:25



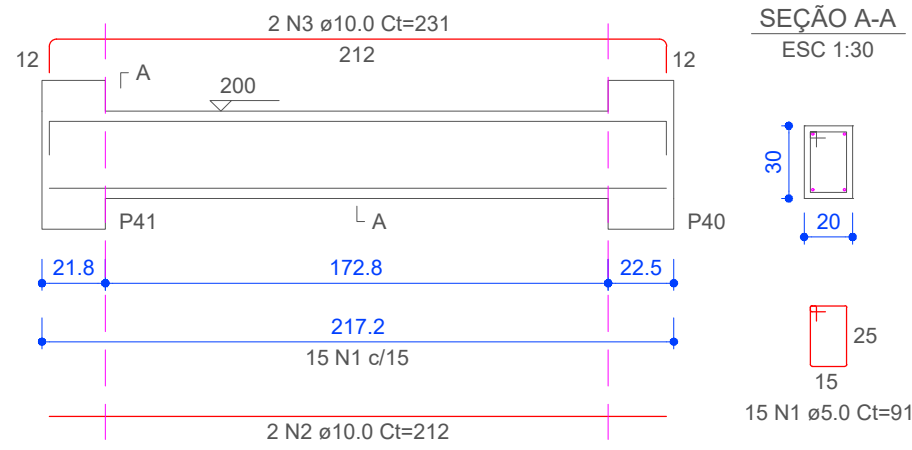
V32 (20 x 30)

ESC 1:25



V33 (20 x 30)

ESC 1:25



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V1	CA60	1	5.0	22	91	2002
	CA50	2	10.0	2	361	722
V2	CA50	3	10.0	2	380	760
	CA60	1	5.0	34	91	3094
V3	CA50	2	10.0	2	535	1070
	CA50	3	10.0	2	554	1108
V4	CA50	1	5.0	26	91	2366
	CA50	2	10.0	2	415	830
V5	CA50	3	10.0	2	434	868
	CA60	1	5.0	16	91	1456
V6	CA50	2	10.0	2	415	830
	CA50	3	10.0	2	434	868
V7	CA50	1	5.0	22	91	2002
	CA50	2	10.0	2	293	586
V8	CA50	3	10.0	2	312	624
	CA60	1	5.0	22	91	2002
V9	CA50	2	10.0	2	367	734
	CA50	3	10.0	2	386	772
V10	CA50	1	5.0	24	91	2184
	CA50	2	10.0	2	410	820
V11	CA50	3	10.0	2	429	858
	CA60	1	5.0	24	91	2184
V12	CA50	2	10.0	2	410	820
	CA50	3	10.0	2	429	858
V13	CA50	1	5.0	12	91	1092
	CA50	2	10.0	2	213	426
V14	CA50	3	10.0	2	232	464
	CA60	1	5.0	26	91	2366
V15	CA50	2	10.0	2	425	850
	CA50	3	10.0	2	444	888
V16	CA60	1	5.0	24	91	2184
	CA50	2	10.0	2	415	830
V17	CA50	3	10.0	2	434	868
	CA60	1	5.0	25	91	2275
V18	CA50	2	10.0	2	415	830
	CA50	3	10.0	2	434	868
V19	CA50	1	5.0	24	91	2184
	CA50	2	10.0	2	415	830
V20	CA50	3	10.0	2	434	868
	CA60	1	5.0	24	91	2184
V21	CA50	2	10.0	2	415	830
	CA50	3	10.0	2	434	868
V22	CA50	1	5.0	36	91	3276
	CA50	2	10.0	2	569	1138
V23	CA50	3	10.0	2	588	1176
	CA60	1	5.0	20	91	1820
V24	CA50	2	10.0	2	336	672
	CA50	3	10.0	2	355	710
V25	CA60	1	5.0	26	91	2366
	CA50	2	10.0	2	415	830
V26	CA50	3	10.0	2	434	868
	CA60	1	5.0	26	91	2366
V27	CA50	2	10.0	2	415	830
	CA50	3	10.0	2	434	868
V28	CA60	1	5.0	26	91	2366
	CA50	2	10.0	2	415	830
V29	CA50	3	10.0	2	434	868
	CA60	1	5.0	26	91	2366
V30	CA50	2	10.0	2	415	830
	CA50	3	10.0	2	434	868
V31	CA60	1	5.0	15	91	1365
	CA50	2	10.0	2	282	564
V32	CA50	3	10.0	2	292	584
	CA60	1	5.0	26	91	2366
V33	CA50	2	10.0	4	385	1540
	CA60	1	5.0	15	91	1365
V34	CA50	2	10.0	2	212	424
	CA50	3	10.0	2	231	462

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	10.0	259.2	22	159.8
CA60	5.0	344	-	53
PESO TOTAL (kg)				
CA50	159.8			
CA60	53			

Volume de concreto (C-25) = 3.31 m³
Área de forma = 44.16 m²

RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V17	CA60	1	5.0	25	91	2275
	CA50	2	10.0	2	415	830
V18	CA50	3	10.0	2	434	868
	CA60	1	5.0	24	91	2184
V19	CA50	2	10.0	2	415	830
	CA50	3	10.0	2	434	868
V20	CA60	1	5.0	25	91	2275
	CA50	2	10.0	2	415	830
V21	CA50	3	10.0	2	434	868
	CA60	1	5.0	24	91	2184
V22	CA50	2	10.0	2	415	830
	CA50	3	10.0	2	434	868
V23	CA60	1	5.0	26	91	2366
	CA50	2	10.0	2	415	830
V24	CA50	3	10.0	2	434	868
	CA60	1	5.0	26	91	2366
V25	CA50	2	10.0	2	415	830
	CA50	3	10.0	2	434	868
V26	CA60	1	5.0	26	91	2366
	CA50	2	10.0	2	415	830
V27	CA50	3	10.0	2	434	868
	CA60	1	5.0	26	91	2366
V28	CA50	2	10.0	2	415	830
	CA50	3	10.0	2	434	868
V29	CA60	1	5.0	26	91	2366
	CA50	2	10.0	2	415	830
V30	CA50	3	10.0	2	434	868
	CA60	1	5.0	26	91	2366
V31	CA50	2	10.0	2	415	830
	CA50	3	10.0	2	434	868
V32	CA60	1	5.0	15	91	1365
	CA50	2	10.0	2	282	564
V33	CA50	3	10.0	2	292	584
	CA60	1	5.0	26	91	2366
V34	CA50	2	10.0	4	385	1540
	CA60	1	5.0	15	91	1365
V35	CA50	2	10.0	2	212	424
	CA50	3	10.0	2	231	462

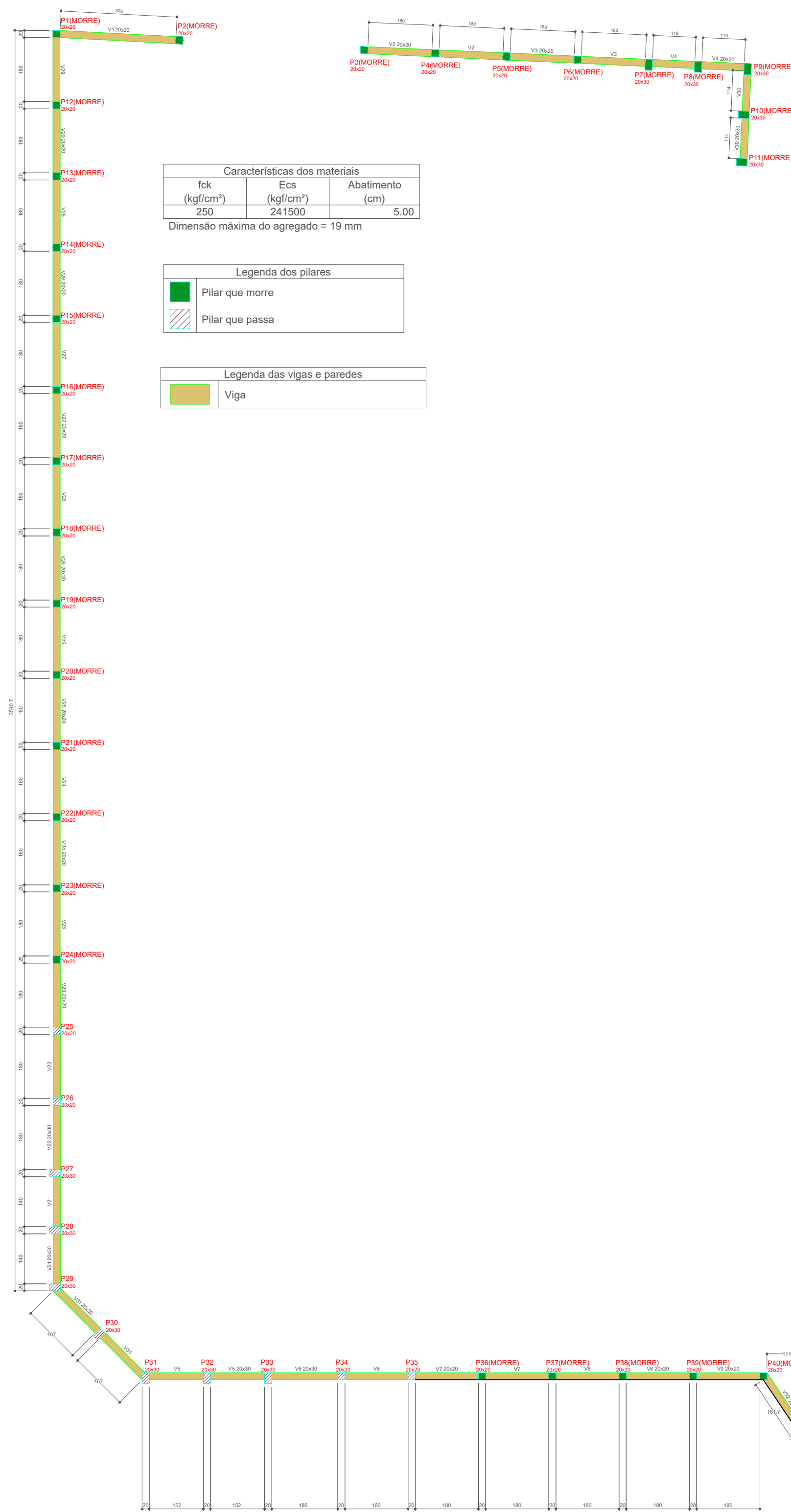
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	10.0	276.5	24	170.4
CA60	5.0	380.4	-	58.6
PESO TOTAL (kg)				
CA50	170.4			
CA60	58.6			

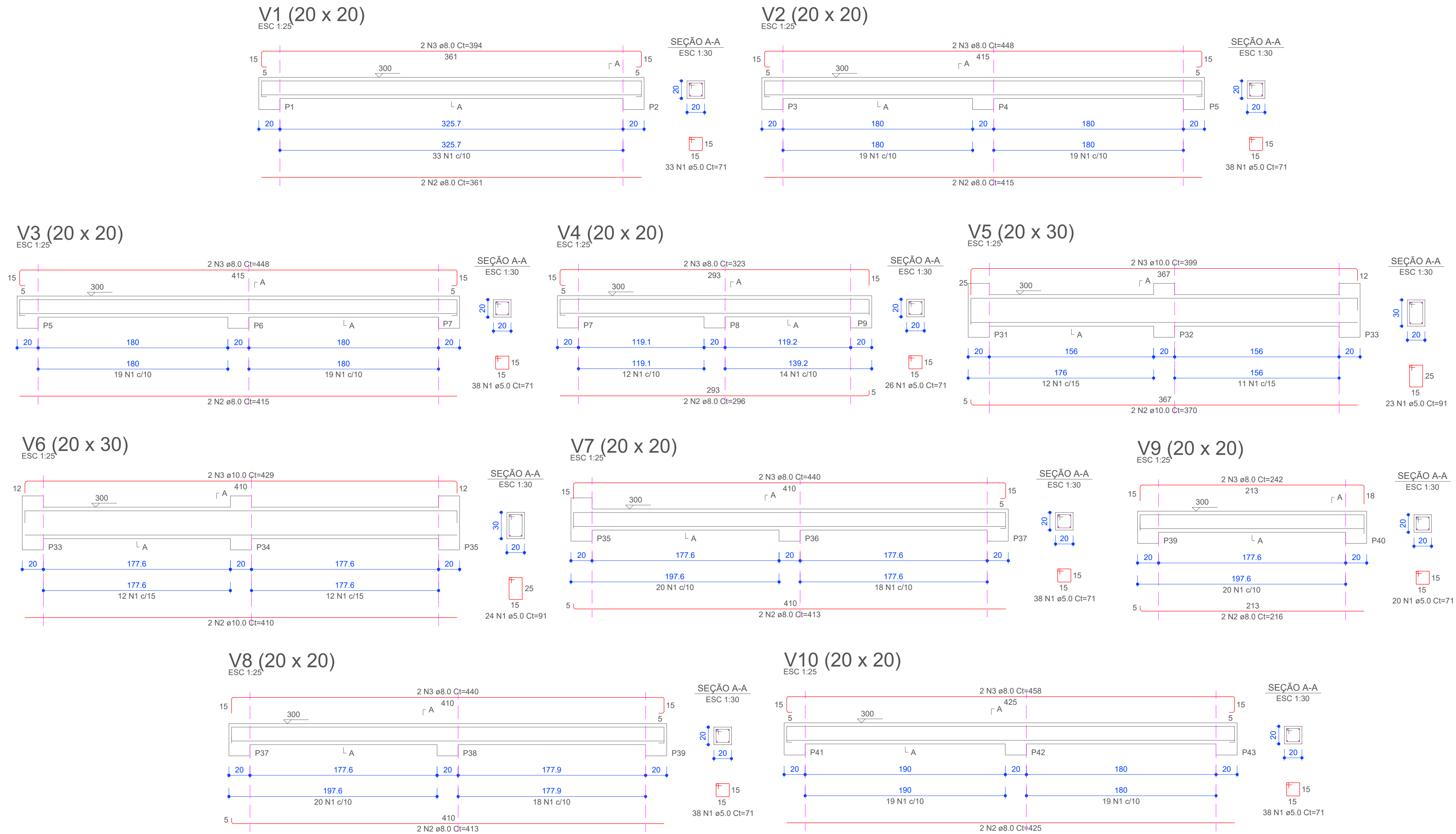
Volume de concreto (C-25) = 3.53 m³
Área de forma = 47.11 m²

Nome: POLICLINICA	
Projeto: Jeremias Campos Daniel Eng Civil - CREA MG 242.037/D	Proprietária: Prefeitura Municipal de Estiva CNPJ - 18.675.918/0001-04
Projeto: PROJETO ESTRUTURAL PAREDE DE CONTENÇÃO	
Descrição: VIGAS NIVEL 0 - CONTINUAÇÃO	
Data: AGOSTO/2025	Escala: Indicada

PLANTA DE FORMA DO NÍVEL 100 - Escala 1:100



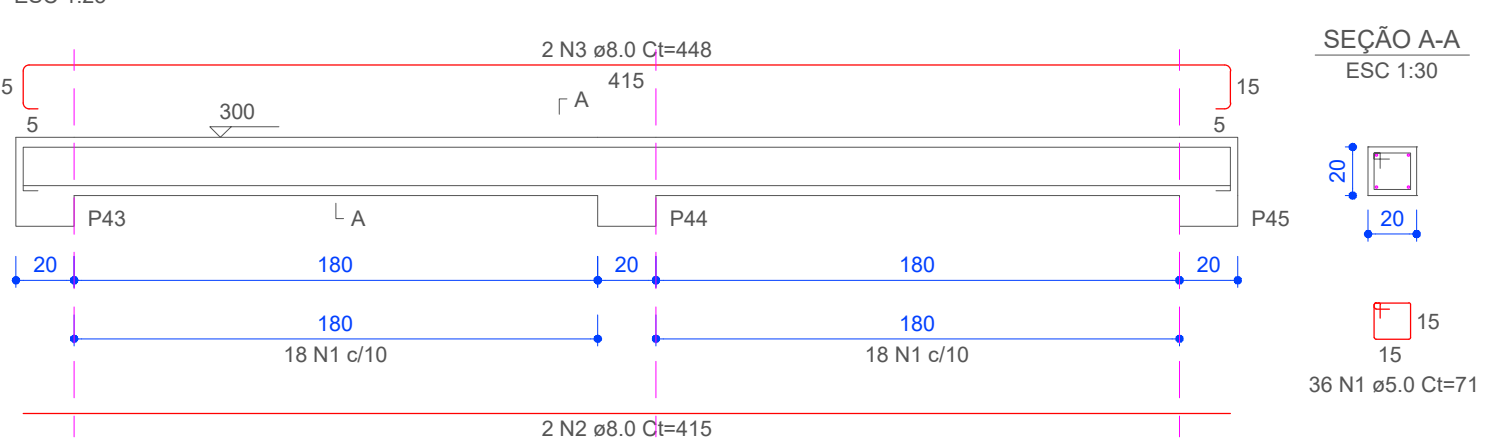
VIGAS DO NÍVEL 100 - Escala 1:50



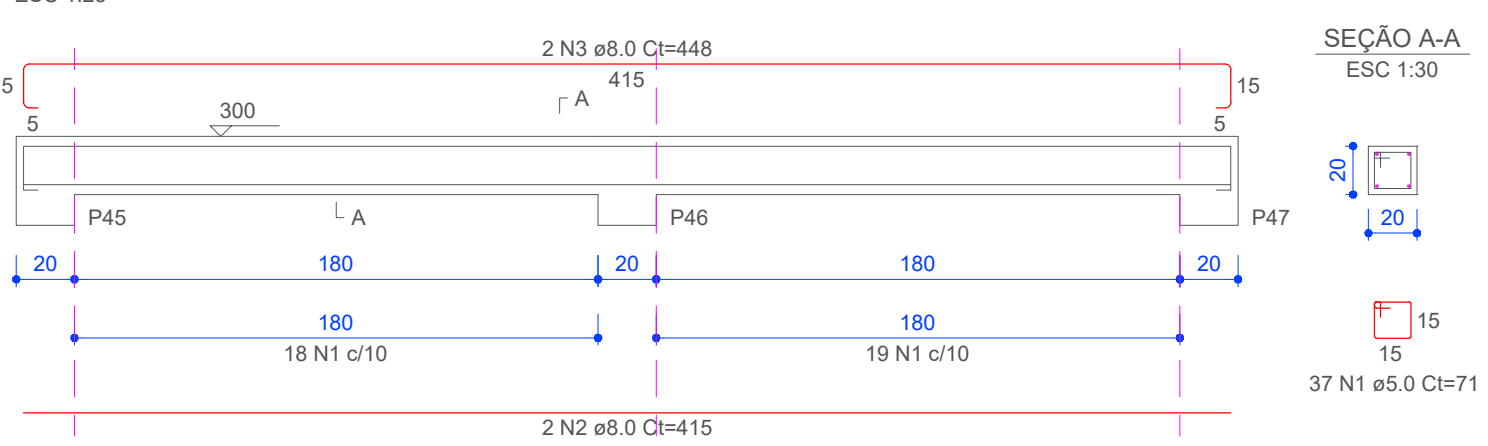
Forma do pavimento NÍVEL 100 (Nível 300)
escala 1:50

VIGAS DO NIVEL 100 - Escala 1:50 Continuação

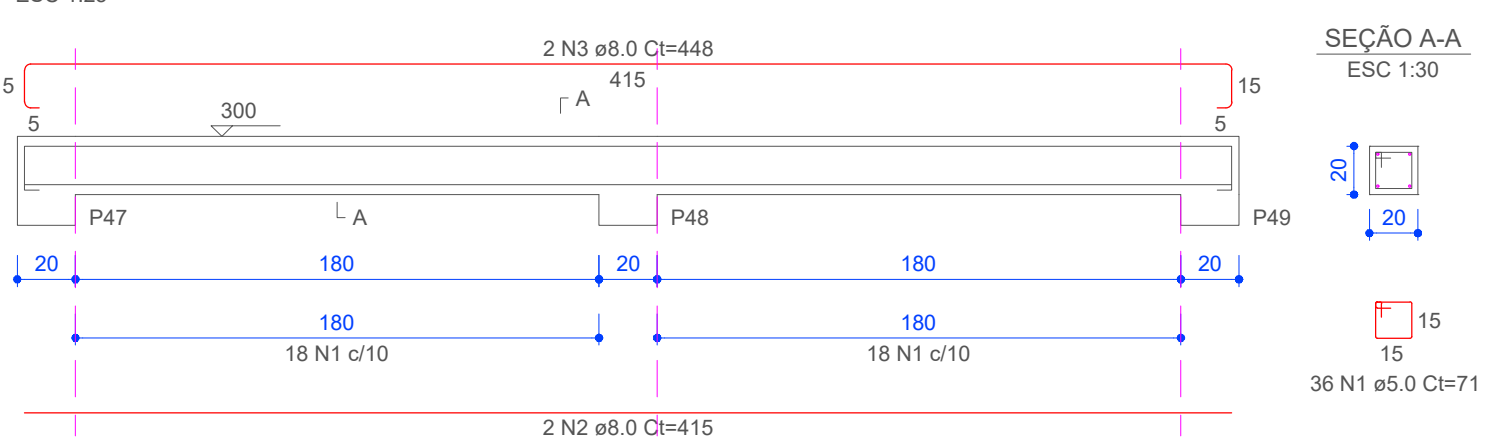
V11 (20 x 20)



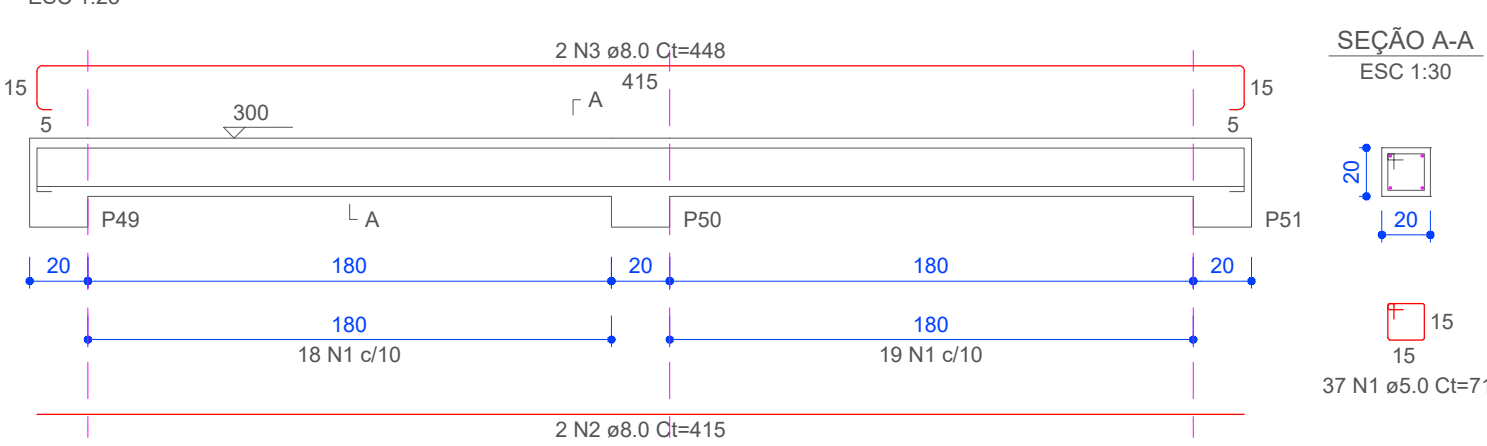
V12 (20 x 20)



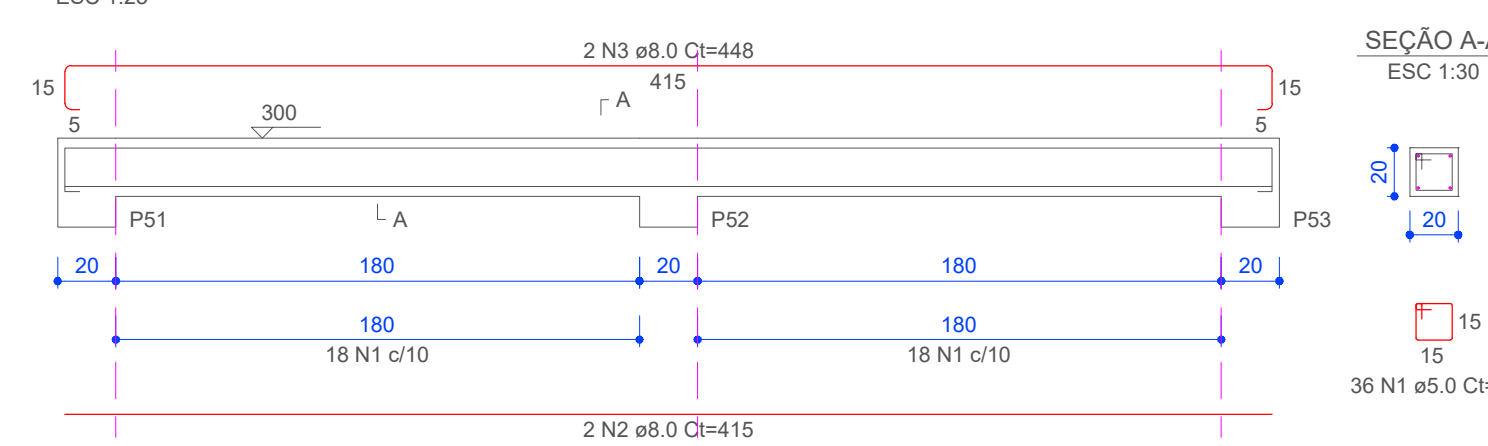
V13 (20 x 20)



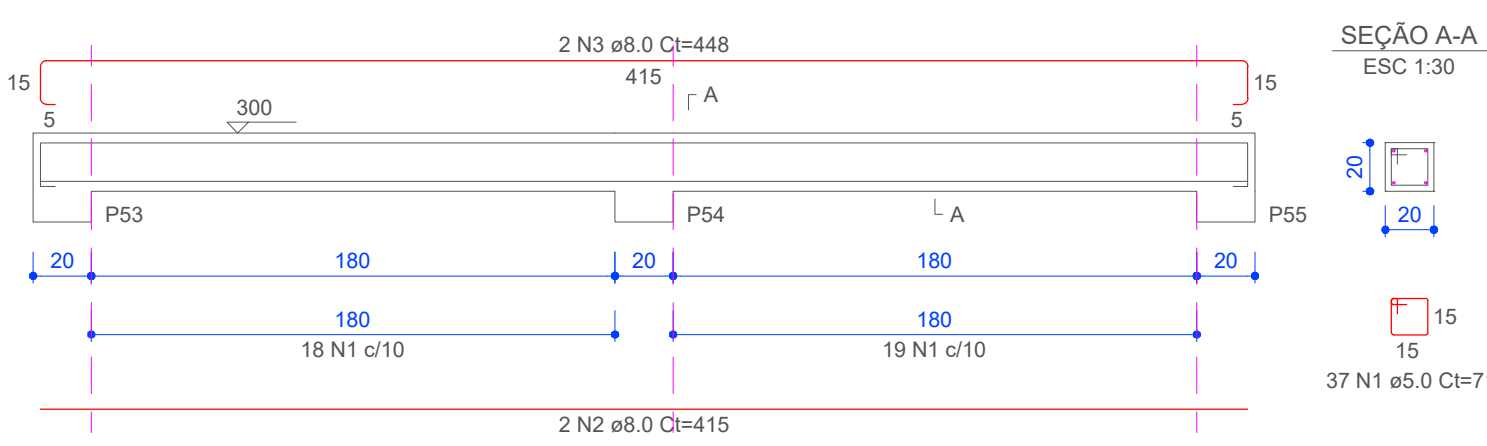
V14 (20 x 20)



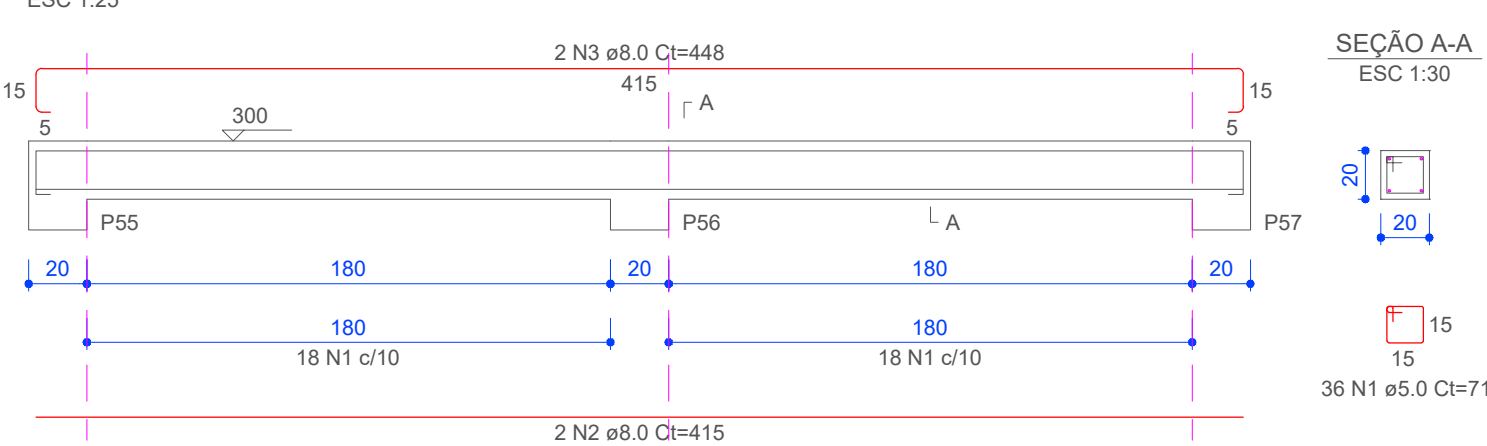
V15 (20 x 20)



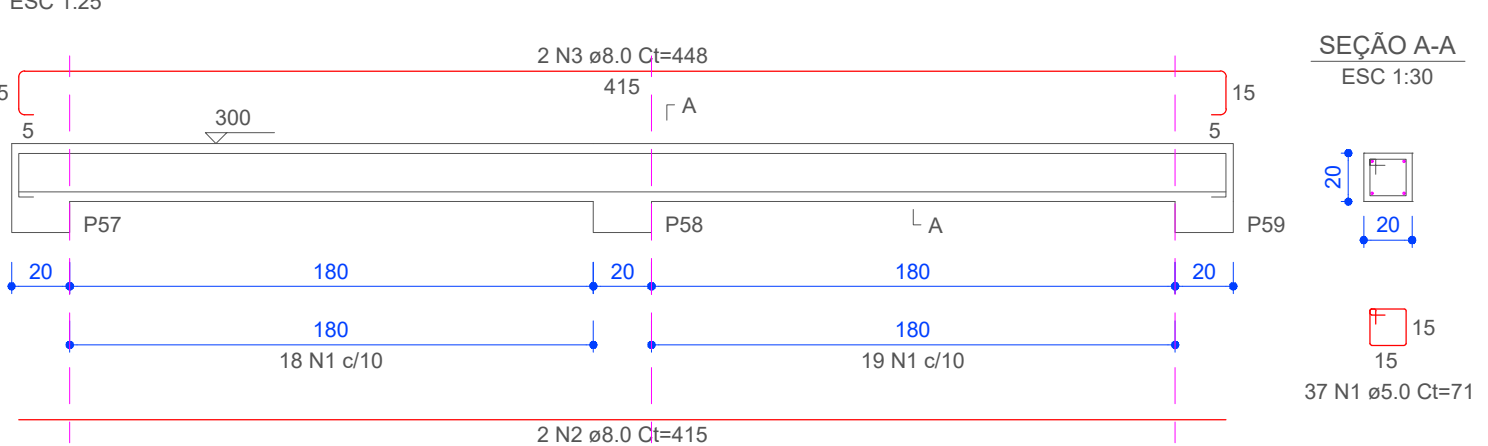
V16 (20 x 20)



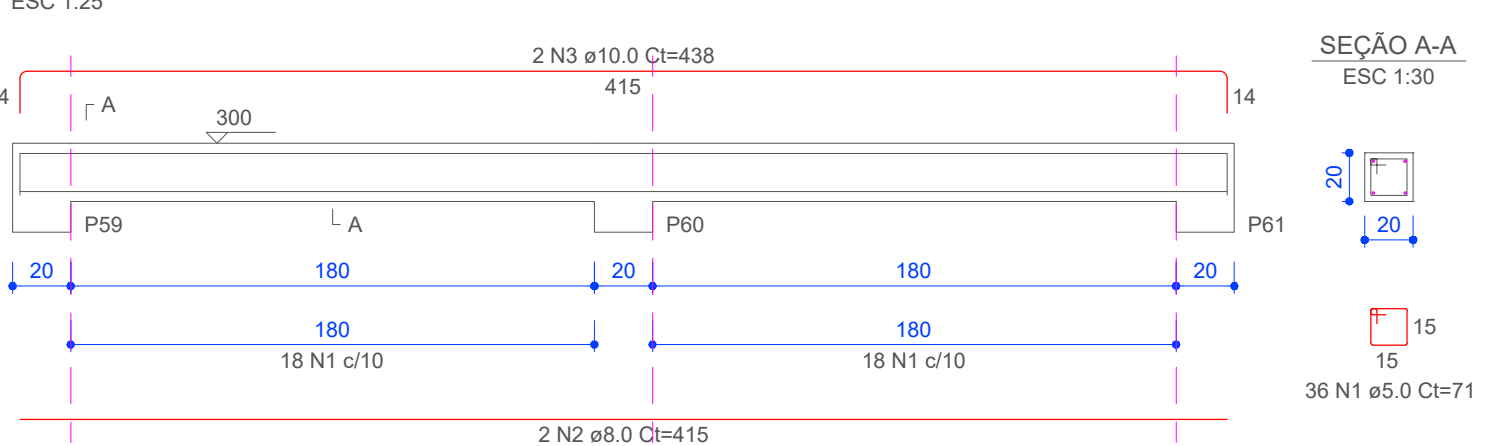
V17 (20 x 20)



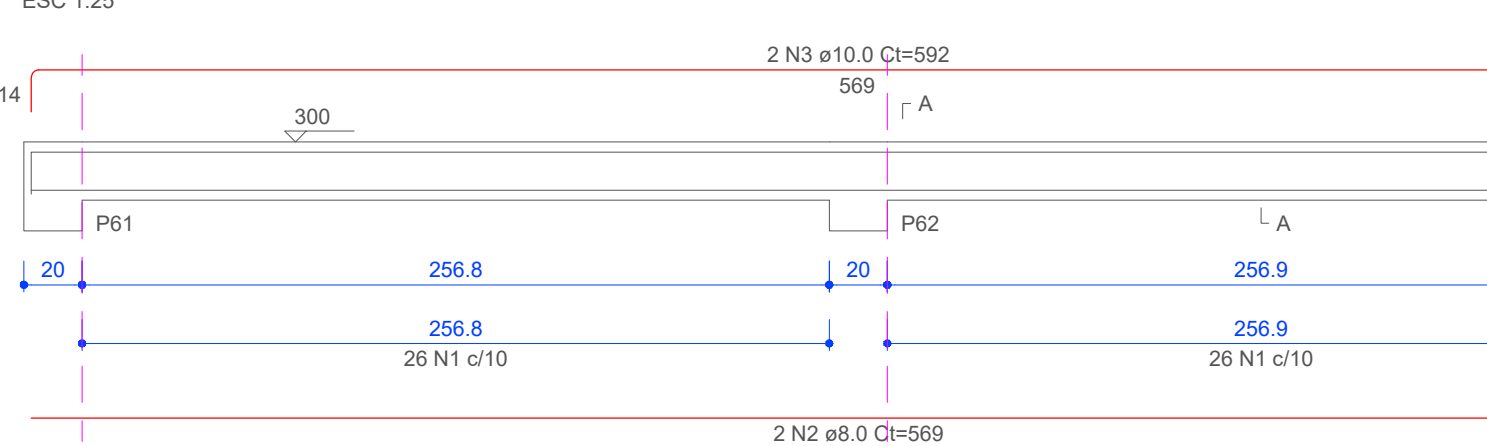
V18 (20 x 20)



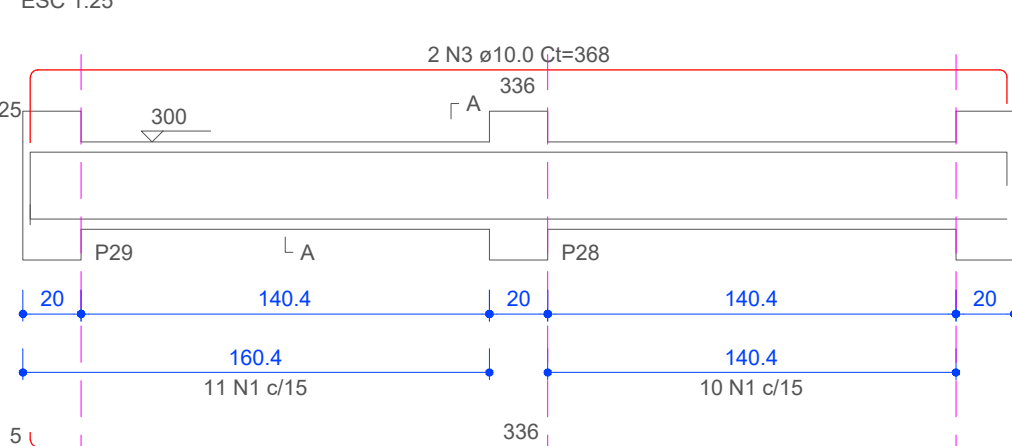
V19 (20 x 20)



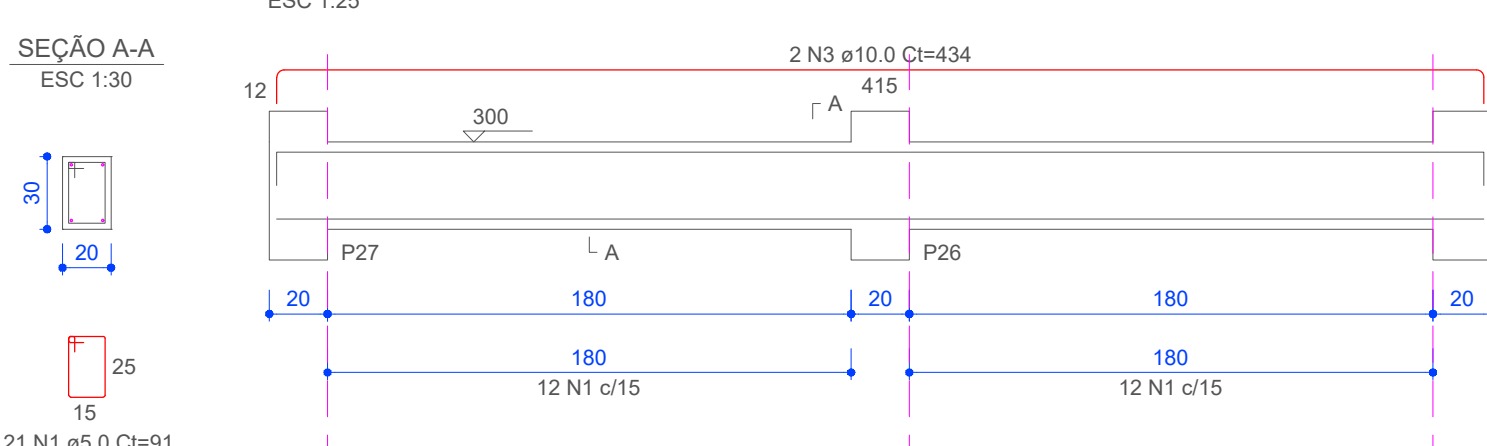
V20 (20 x 20)



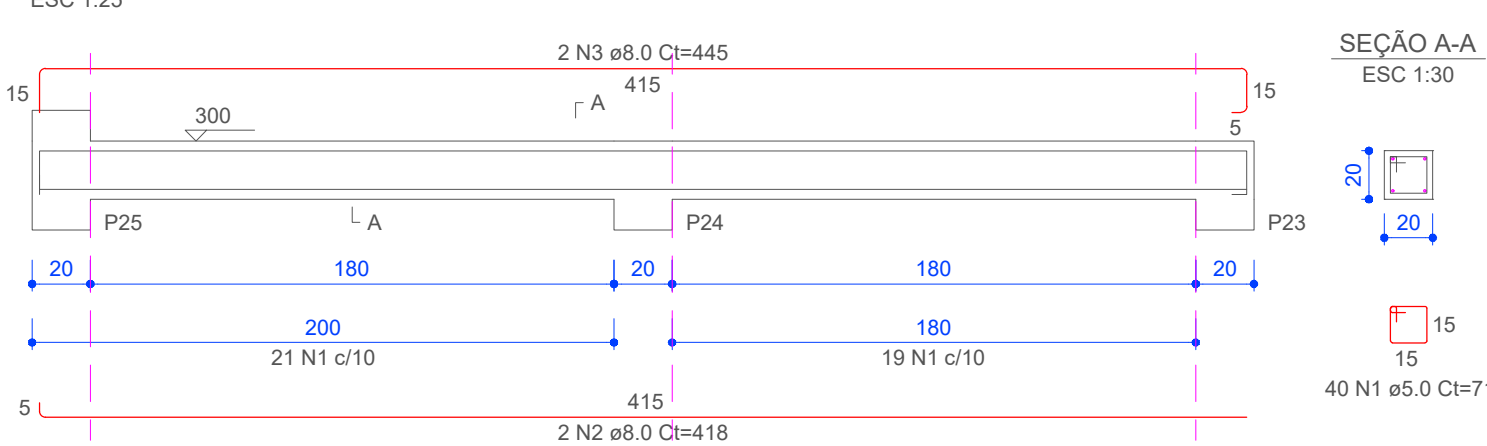
V21 (20 x 30)



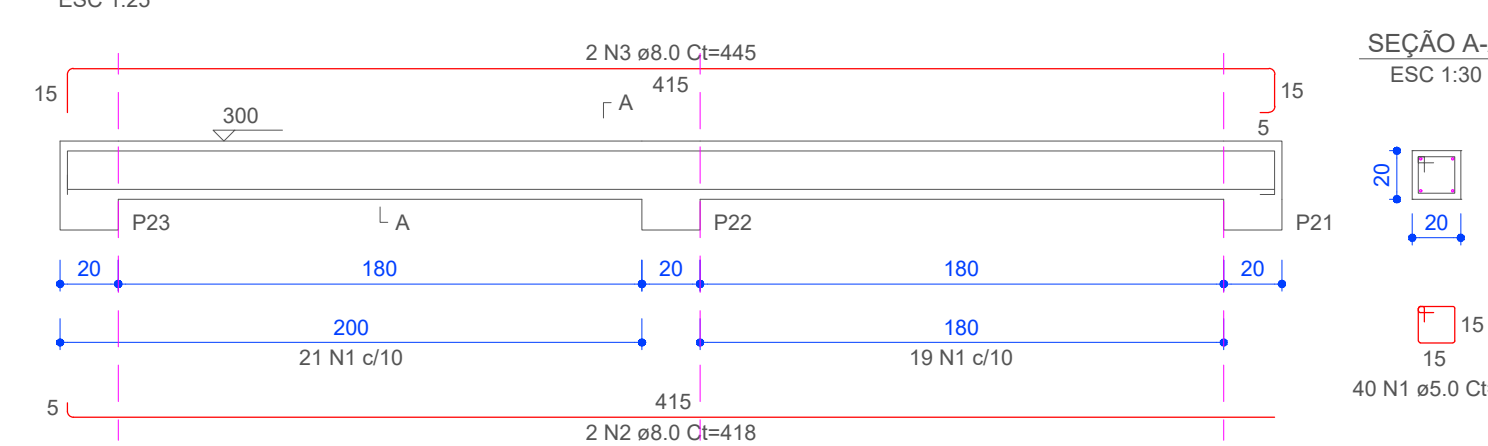
V22 (20 x 30)



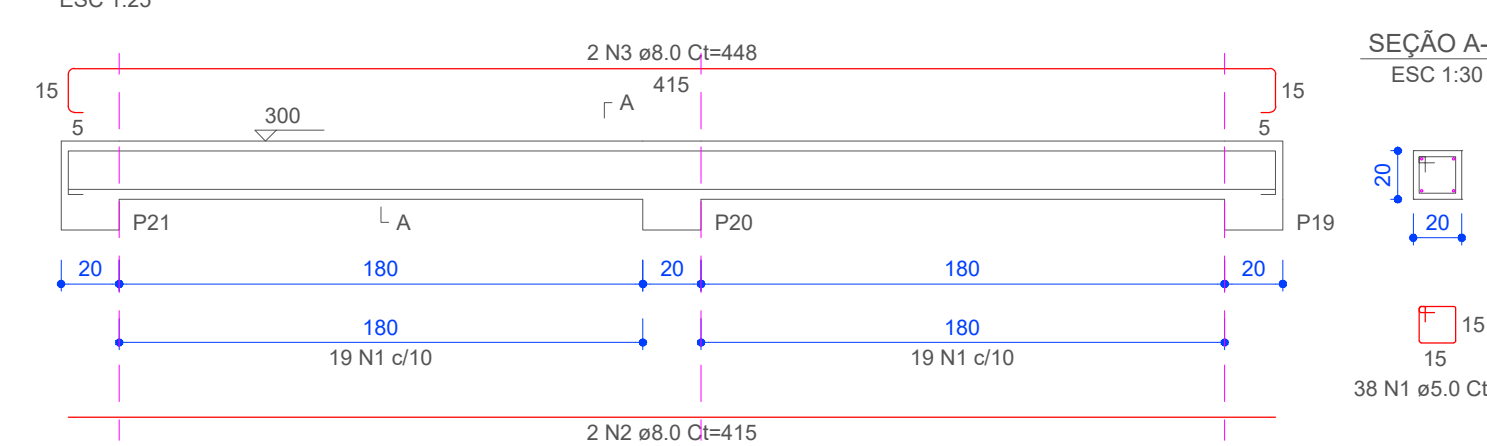
V23 (20 x 20)



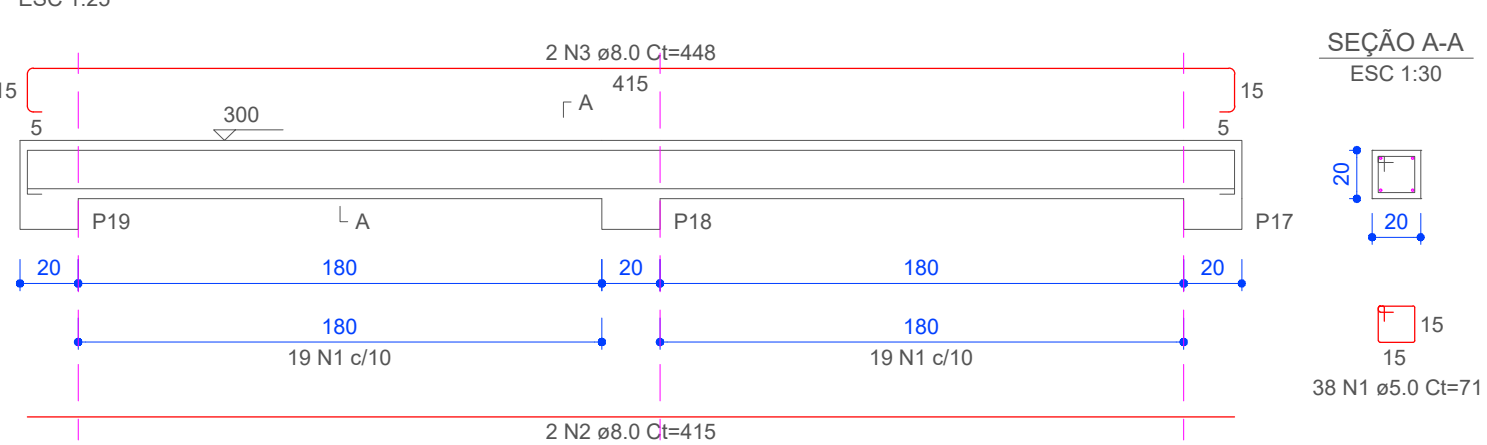
V24 (20 x 20)



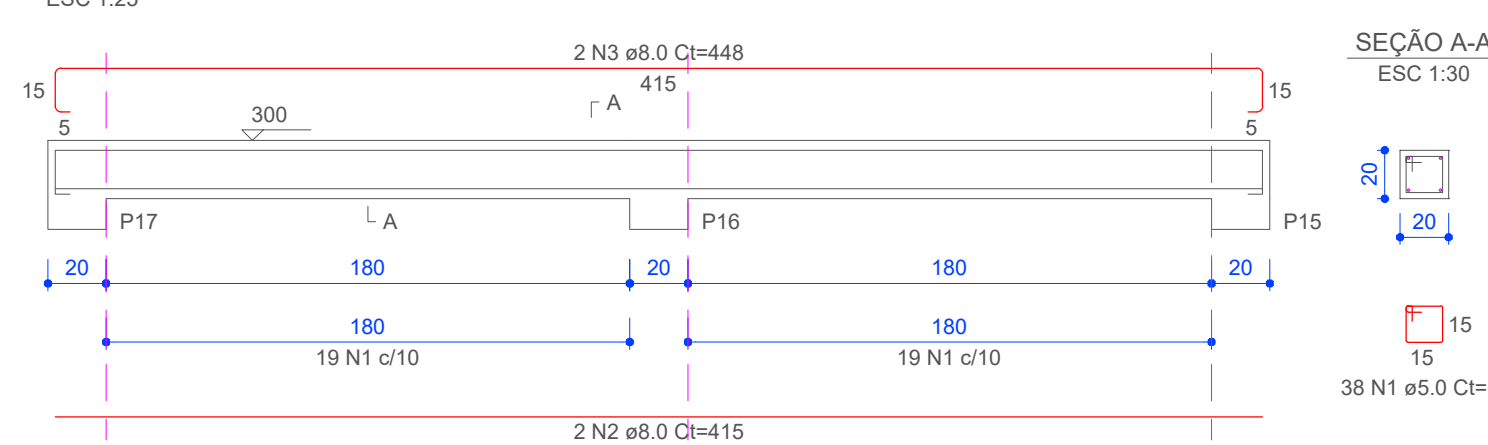
V25 (20 x 20)



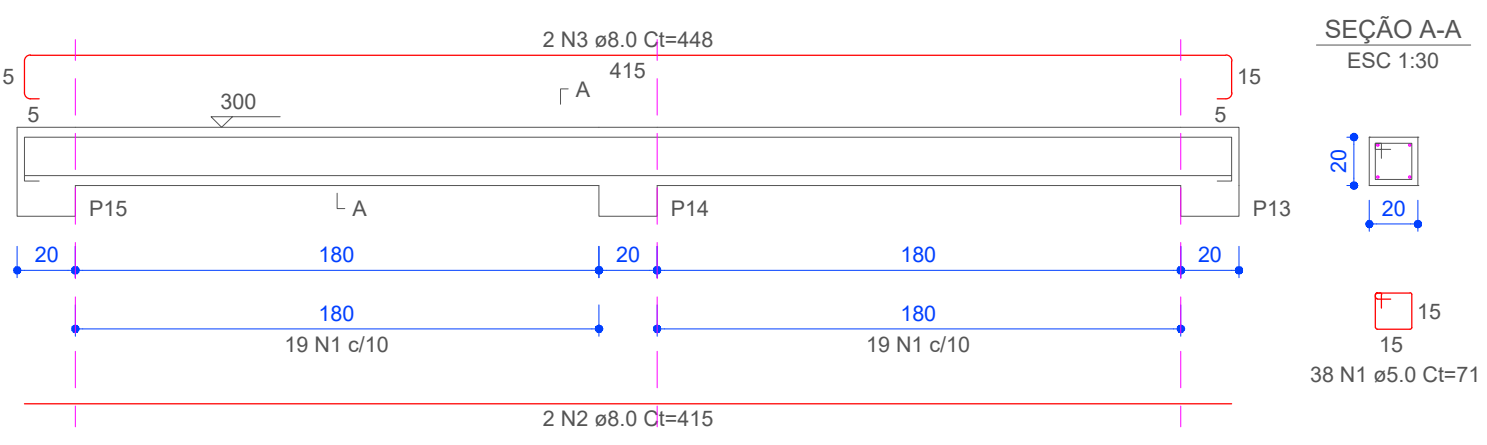
V26 (20 x 20)



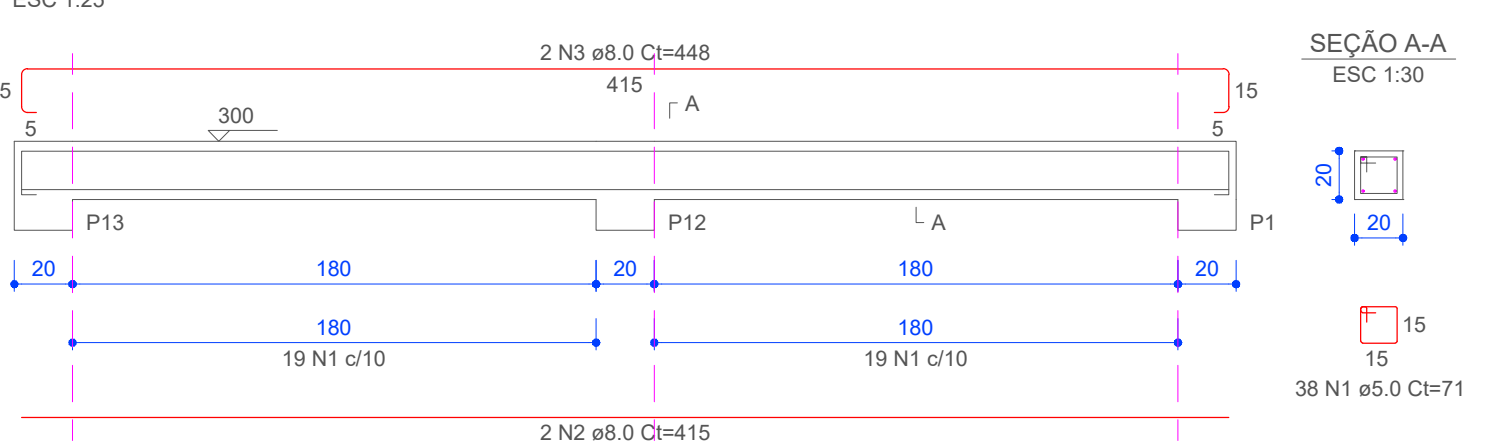
V27 (20 x 20)



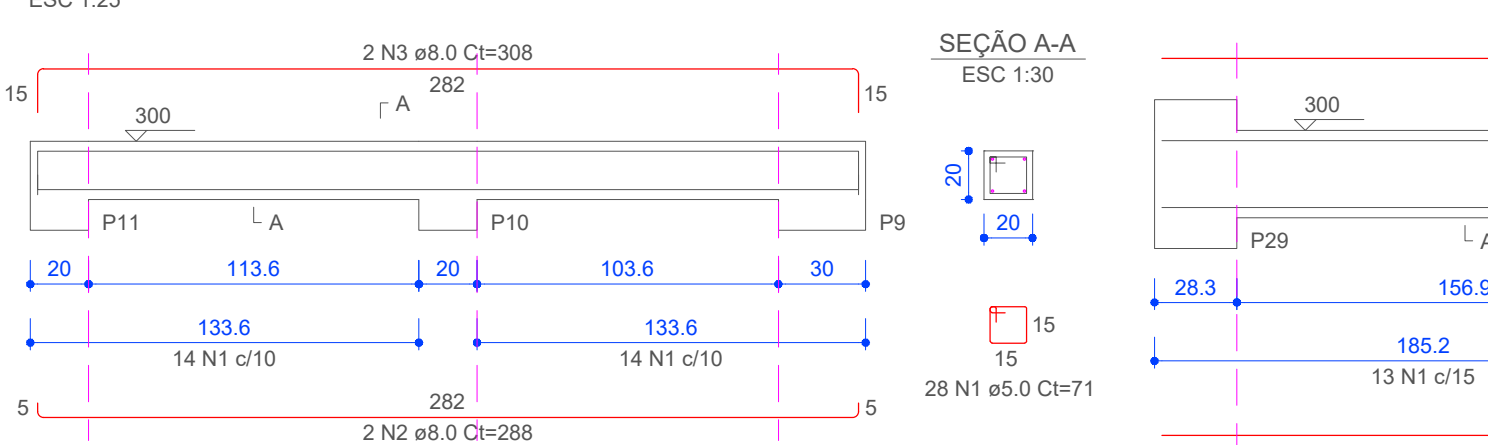
V28 (20 x 20)



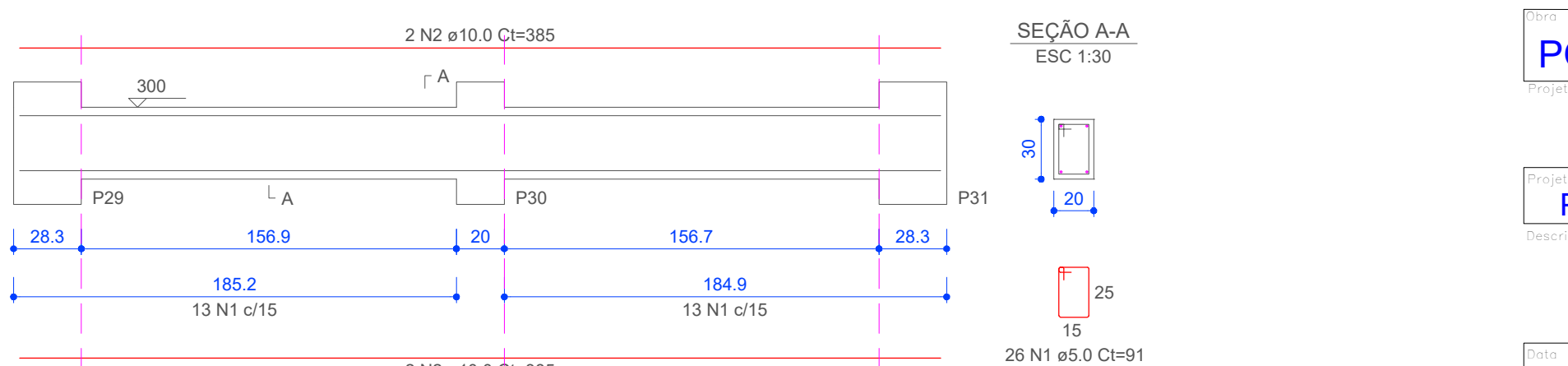
V29 (20 x 20)



V30 (20 x 20)



V31 (20 x 30)



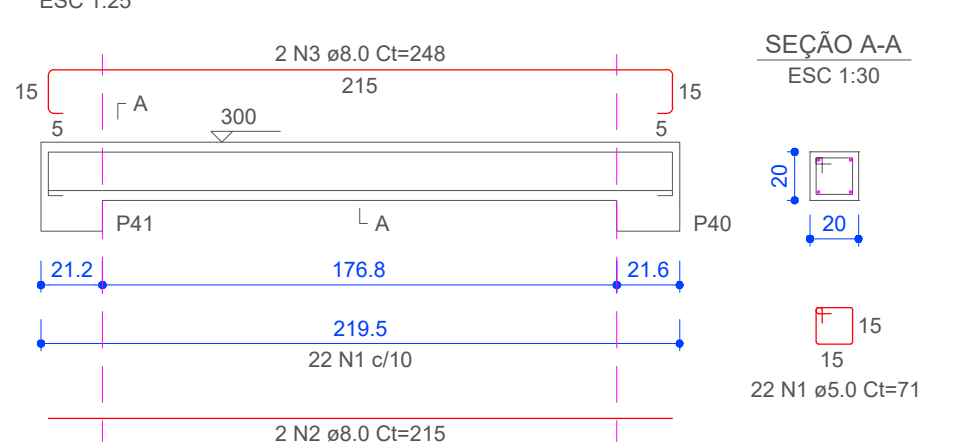
RELAÇÃO DO AÇO					
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)
V1	CA60	1	5.0	33	71
	CA50	2	8.0	2	361
	CA60	3	8.0	2	394
V2	CA60	1	5.0	38	71
	CA50	2	8.0	2	415
	CA60	3	8.0	2	448
V3	CA60	1	5.0	38	71
	CA50	2	8.0	2	415
	CA60	3	8.0	2	448
V4	CA60	1	5.0	26	71
	CA50	2	8.0	2	298
	CA60	3	8.0	2	323
V5	CA60	1	5.0	23	91
	CA50	2	10.0	2	375
	CA50	3	10.0	2	399
V6	CA60	1	5.0	24	91
	CA50	2	10.0	2	410
	CA50	3	10.0	2	429
V7	CA60	1	5.0	38	71
	CA50	2	8.0	2	413
	CA60	3	8.0	2	440
V8	CA60	1	5.0	20	71
	CA50	2	8.0	2	413
	CA50	3	8.0	2	440
V9	CA60	1	5.0	20	71
	CA50	2	8.0	2	216
	CA50	3	8.0	2	242
V10	CA60	1	5.0	38	71
	CA50	2	8.0	2	425
	CA50	3	8.0	2	458
V11	CA60	1	5.0	36	71
	CA50	2	8.0	2	415
	CA50	3	8.0	2	448
V12	CA60	1	5.0	37	71
	CA50	2	8.0	2	415
	CA50	3	8.0	2	448
V13	CA60	1	5.0	36	71
	CA50	2	8.0	2	415
	CA50	3	8.0	2	448
V14	CA60	1	5.0	37	71
	CA50	2	8.0	2	415
	CA50	3	8.0	2	448
V15	CA60	1	5.0	36	71
	CA50	2	8.0	2	415
	CA50	3	8.0	2	448
V16	CA60	1	5.0	37	71
	CA50	2	8.0	2	415
	CA50	3	8.0	2	448
V17	CA60	1	5.0	36	71
	CA50	2	8.0	2	415
	CA50	3	8.0	2	448

RESUMO DO AÇO				
AÇO	DIAM (mm)	C. TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	8.0	243.8	21	96.2
CA60	5.0	414.8	-	19.8
PESO TOTAL (kg)		Volume de concreto (C-25) = 2.43 m³		
CA50	118	Área de forma = 35.77 m²		
CA60	63.9			

RELAÇÃO DO AÇO					
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)
V18	CA60	1	5.0	37	71
	CA50	2	8.0	2	415
	CA60	3	8.0	2	448
V19	CA60	1	5.0	36	71
	CA50	2	8.0	2	415
	CA50	3	10.0	2	438
V20	CA60	1	5.0	52	71
	CA50	2	8.0	2	569
	CA50	3	10.0	2	592
V21	CA60	1	5.0	21	91
	CA50	2	10.0	2	339
	CA50	3	10.0	2	368
V22	CA60	1	5.0	24	91
	CA50	2	10.0	2	415
	CA50	3	10.0	2	434
V23	CA60	1	5.0	40	71
	CA50	2	8.0	2	418
	CA50	3	8.0	2	445
V24	CA60	1	5.0	40	71
	CA50	2	8.0	2	418
	CA50	3	8.0	2	445
V25	CA60	1	5.0	38	71
	CA50	2	8.0	2	415
	CA50	3	8.0	2	448
V26	CA60	1	5.0	38	71
	CA50	2	8.0	2	415
	CA50	3	8.0	2	448
V27	CA60	1	5.0	38	71
	CA50	2	8.0	2	415
	CA50	3	8.0	2	448
V28	CA60	1	5.0	38	71
	CA50	2	8.0	2	415
	CA50	3	8.0	2	448
V29	CA60	1	5.0	38	71
	CA50	2	8.0	2	415
	CA50	3	8.0	2	448
V30	CA60	1	5.0	28	71
	CA50	2	8.0	2	288
	CA50	3	8.0	2	308
V31	CA60	1	5.0	26	91
	CA50	2	10.0	4	385
	CA60	1	5.0	22	71
V32	CA60	1	5.0	22	71
	CA50	2	8.0	2	215
	CA50	3	8.0	2	248

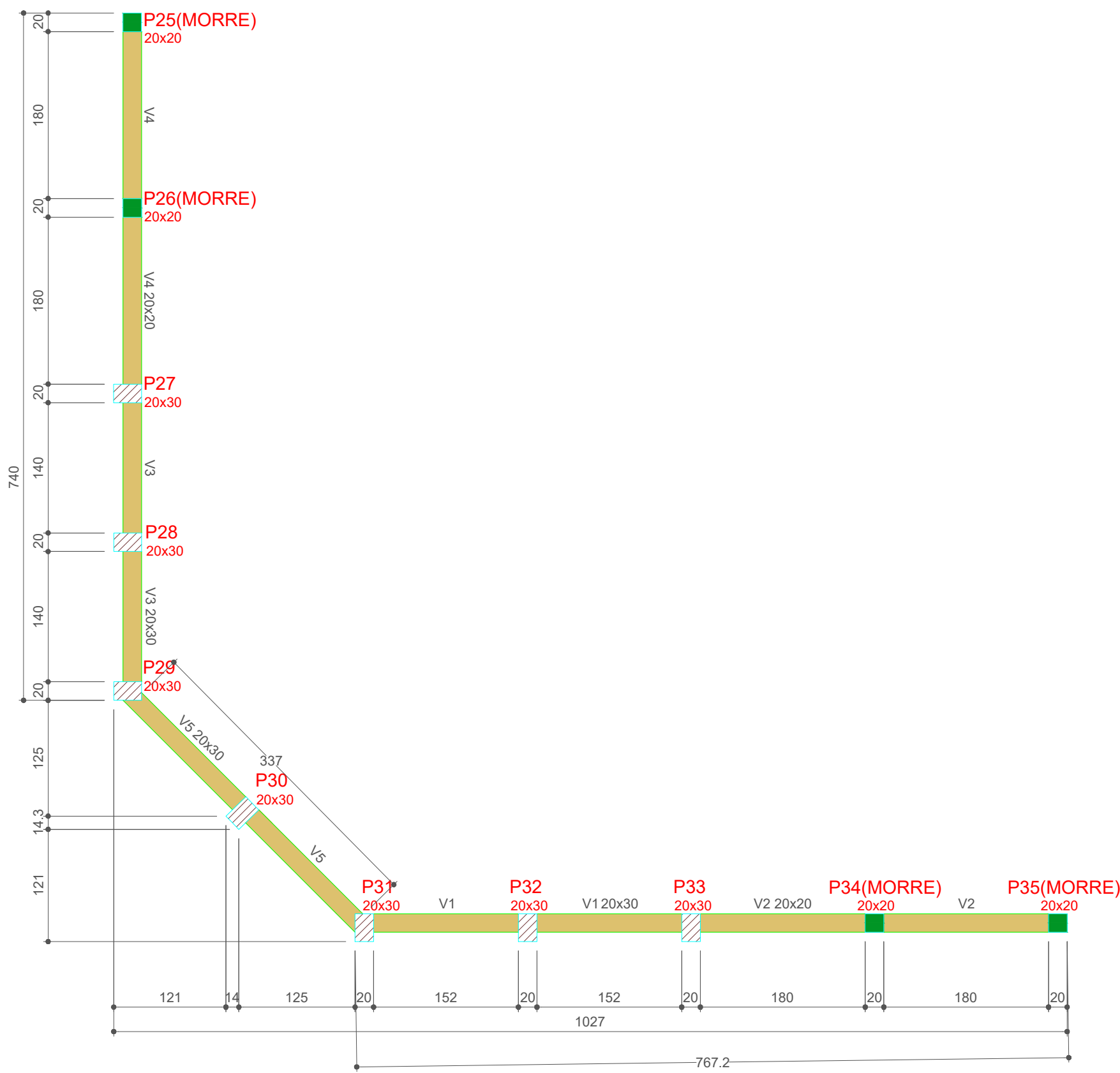
RESUMO DO AÇO				
AÇO	DIAM (mm)	C. TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	8.0	178.9	15	70.6
CA60	5.0	380.6	6	41.4
PESO TOTAL (kg)		Volume de concreto (C-25) = 2.26 m³		
CA50	112	Área de forma = 32.97 m²		
CA60	58.7			

V32 (20 x 20)

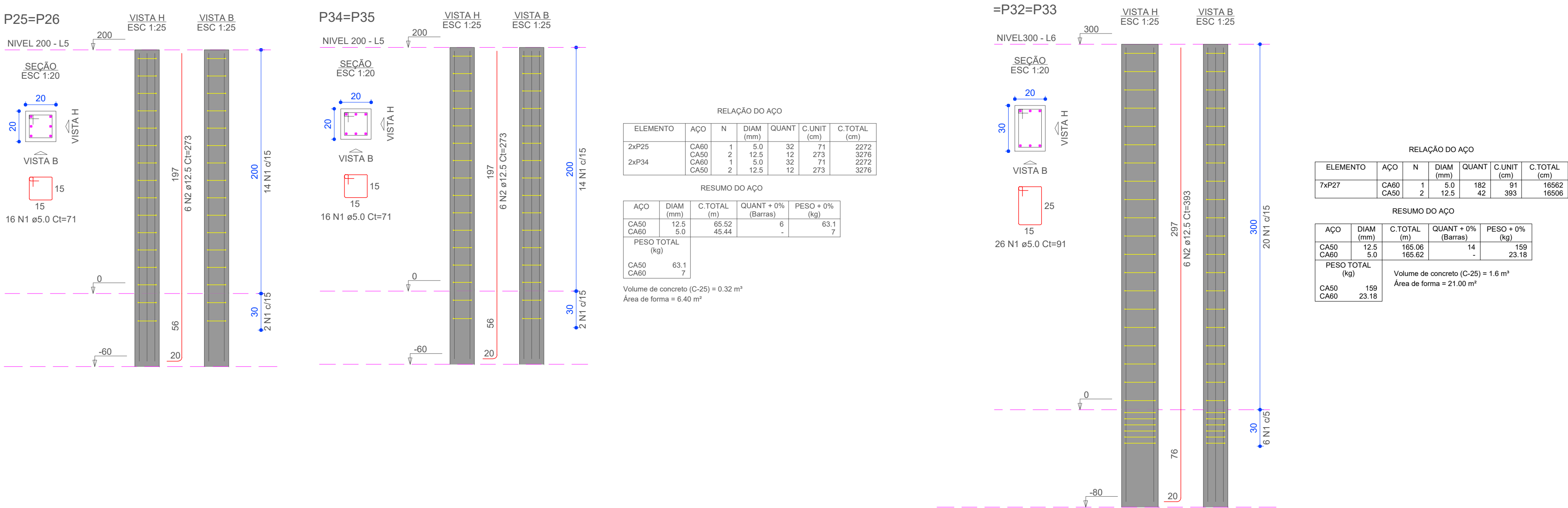


Projeto		Proprietário	
POLICLINICA		Jeremias Campos Daniel Eng Civil - CREA MG 242.037/D	
Projeto		Prefeitura Municipal de Estiva CNPJ - 18.675.918/0001-04	
Descrição		Projeto Estrutural Parede de Contenção	
VIGAS NIVEL 100 - CONTINUAÇÃO			
Data	AGOSTO/2025	Escala	Indicada

PLANTA DE FORMA NÍVEL 200 - Escala 1:50

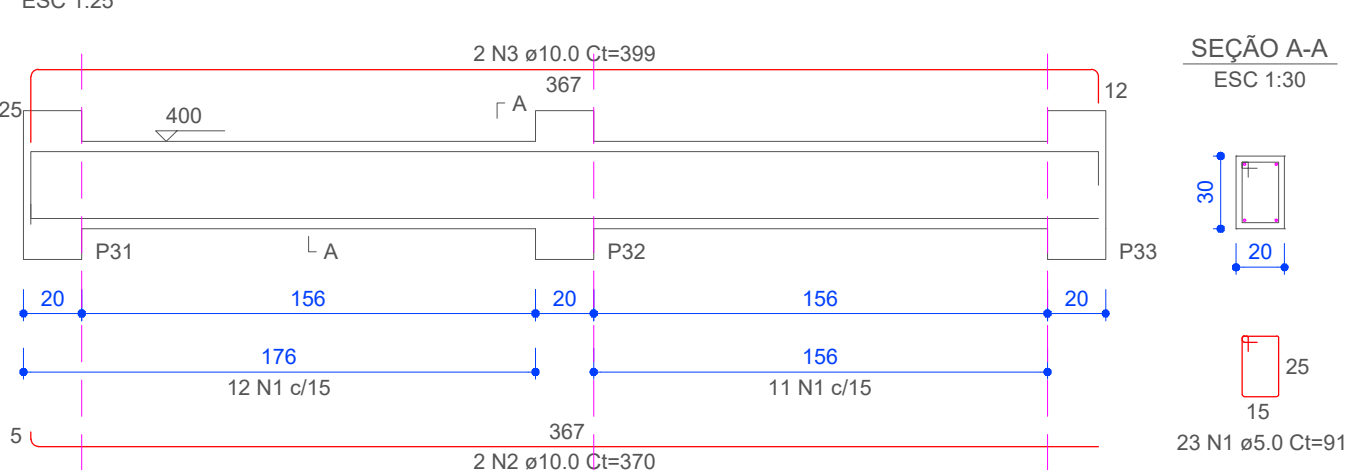


PILARES NÍVEL 200 - Escala 1:50

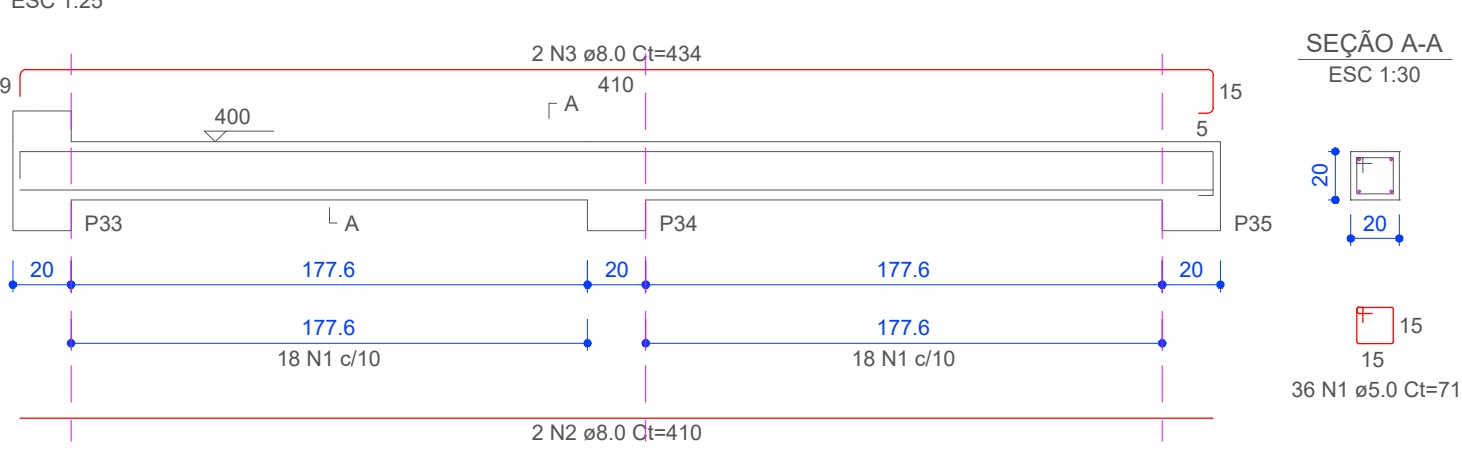


VIGAS NÍVEL 200 - Escala 1:50

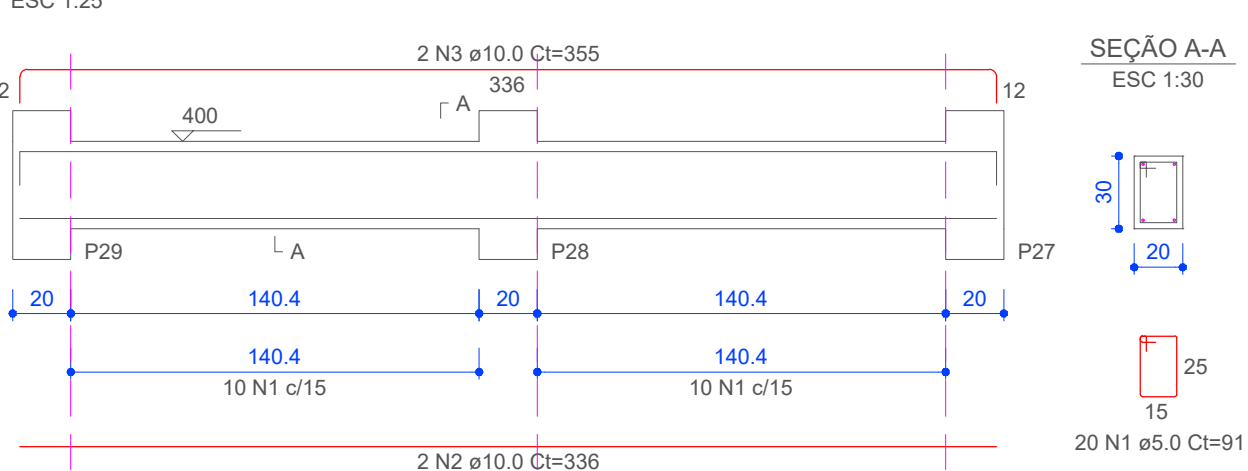
V1 (20 x 30)



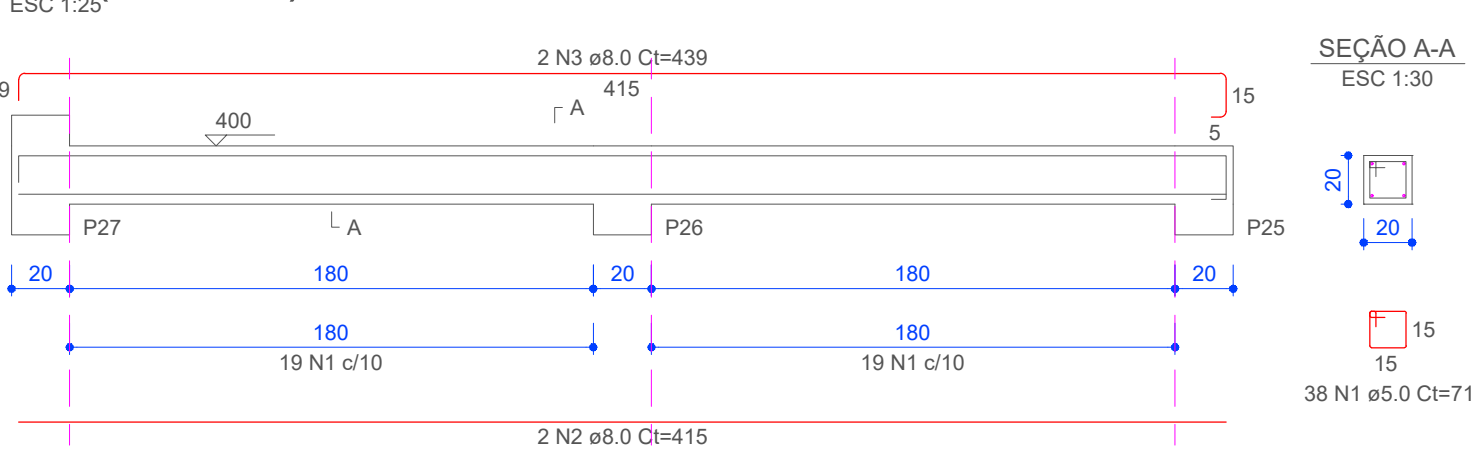
V2 (20 x 20)



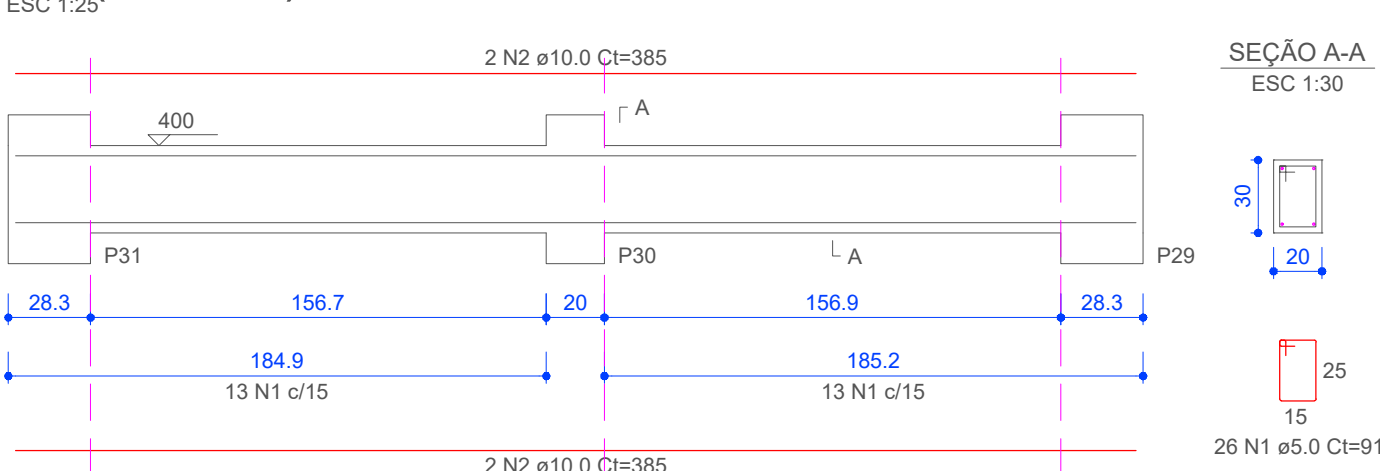
V3 (20 x 30)



V4 (20 x 20)



V5 (20 x 30)



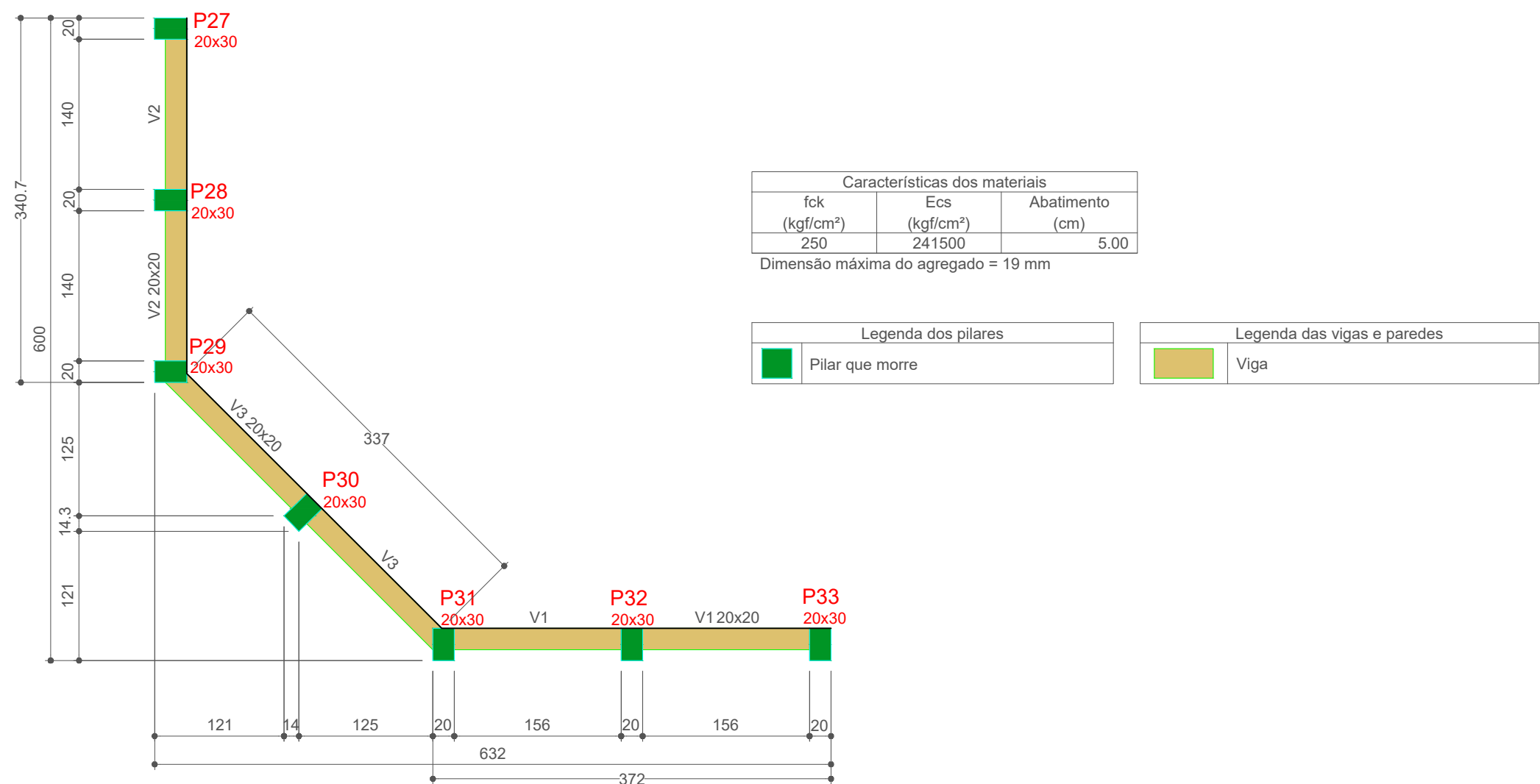
RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V1	CA60	1	5.0	23	91	2093
	CA50	2	10.0	2	370	740
	CA50	3	10.0	2	399	798
V2	CA60	1	5.0	36	71	2556
	CA50	2	8.0	2	410	820
	CA50	3	8.0	2	434	868
V3	CA60	1	5.0	20	91	1820
	CA50	2	10.0	2	336	672
	CA50	3	10.0	2	355	710
V4	CA60	1	5.0	38	71	2698
	CA50	2	8.0	2	415	830
	CA50	3	8.0	2	439	878
V5	CA60	1	5.0	26	91	2366
	CA50	2	10.0	4	385	1540

RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	8.0	34	3	13.4
CA60	10.0	44.6	4	27.5
CA60	5.0	115.3	-	17.8
PESO TOTAL (kg)				
CA50	40.9			
CA60	17.8			

Volume de concreto (C-25) = 0.85 m³
Área de forma = 11.86 m²

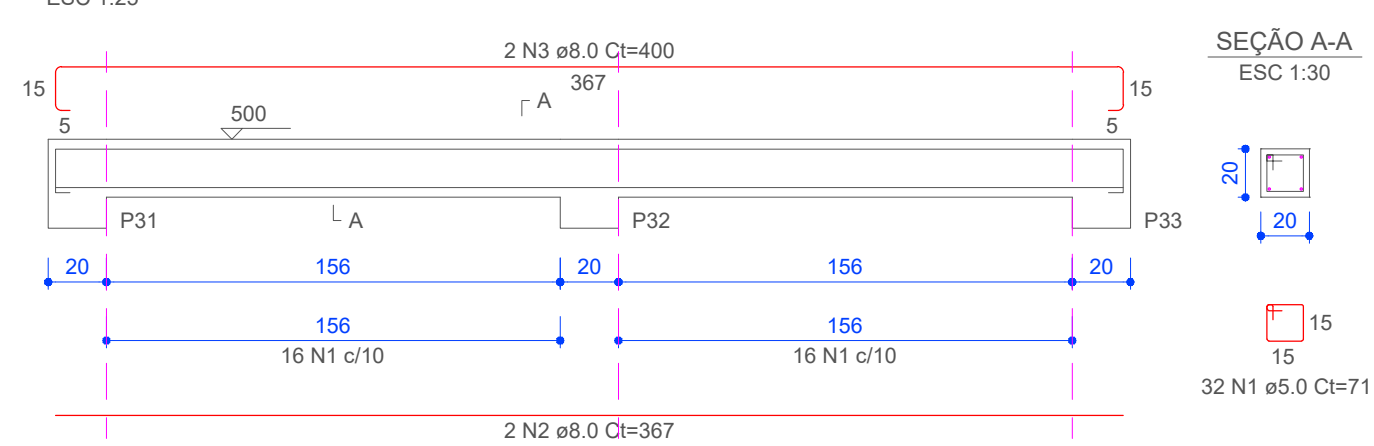
Projeto		Proprietários	
POLICLINICA		Jeremias Campos Daniel Eng Civil - CREA MG 242.037/D	
Projeto		Prefeitura Municipal de Estiva CNPJ - 18.675.918/0001-04	
Descrição		Projeto Estrutural Parede de Contenção	
PLANTA DE FORMA, PILARES E VIGAS NÍVEL 200			
Data	Escala		
AGOSTO/2025	Indicada		

PLANTA DE FORMA NÍVEL 300 - Escala 1:50

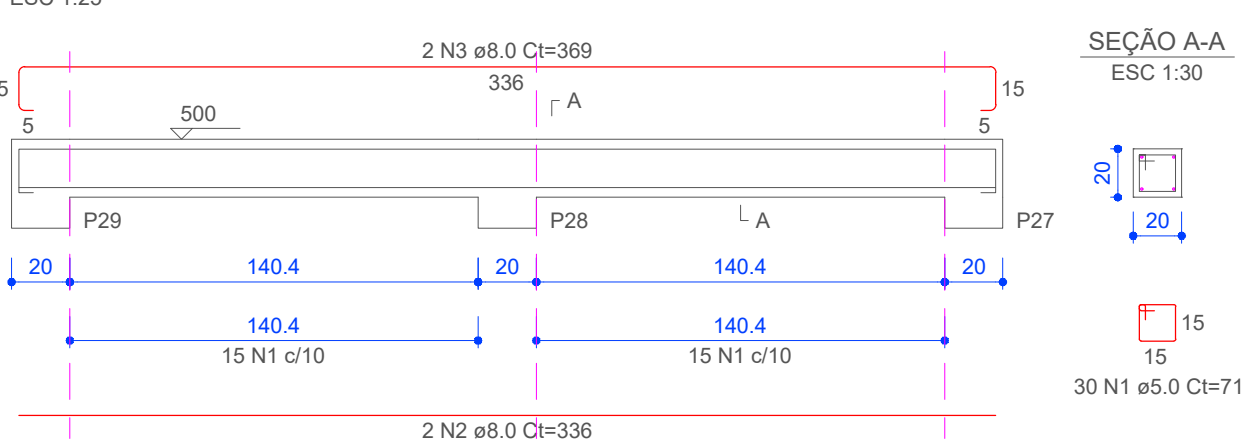


VIGAS NÍVEL 300 - Escala 1:50

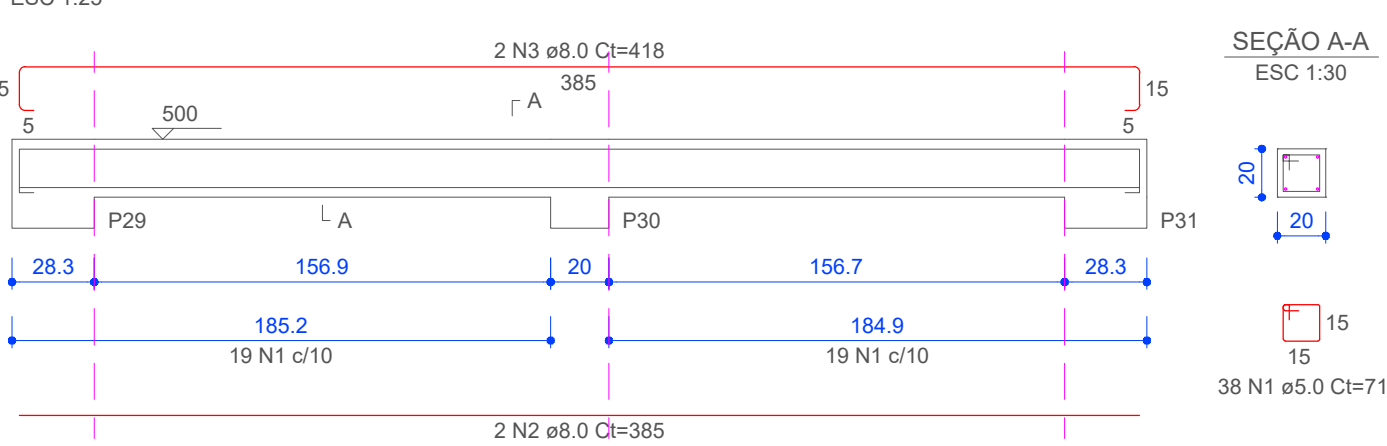
V1 (20 x 20)



V2 (20 x 20)



V3 (20 x 20)



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V1	CA60	1	5.0	32	71	2272
	CA50	2	8.0	2	367	734
V2	CA50	3	8.0	2	400	800
	CA60	1	5.0	30	71	2130
V3	CA50	2	8.0	2	336	672
	CA50	3	8.0	2	369	738
	CA60	1	5.0	38	71	2698
	CA50	2	8.0	2	385	770
	CA50	3	8.0	2	418	836

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	8.0	45.5	4	18
CA60	5.0	71	-	10.9
PESO TOTAL (kg)		Volume de concreto (C-25) = 0.38 m³ Área de forma = 5.68 m²		
CA50	18			
CA60	10.9			