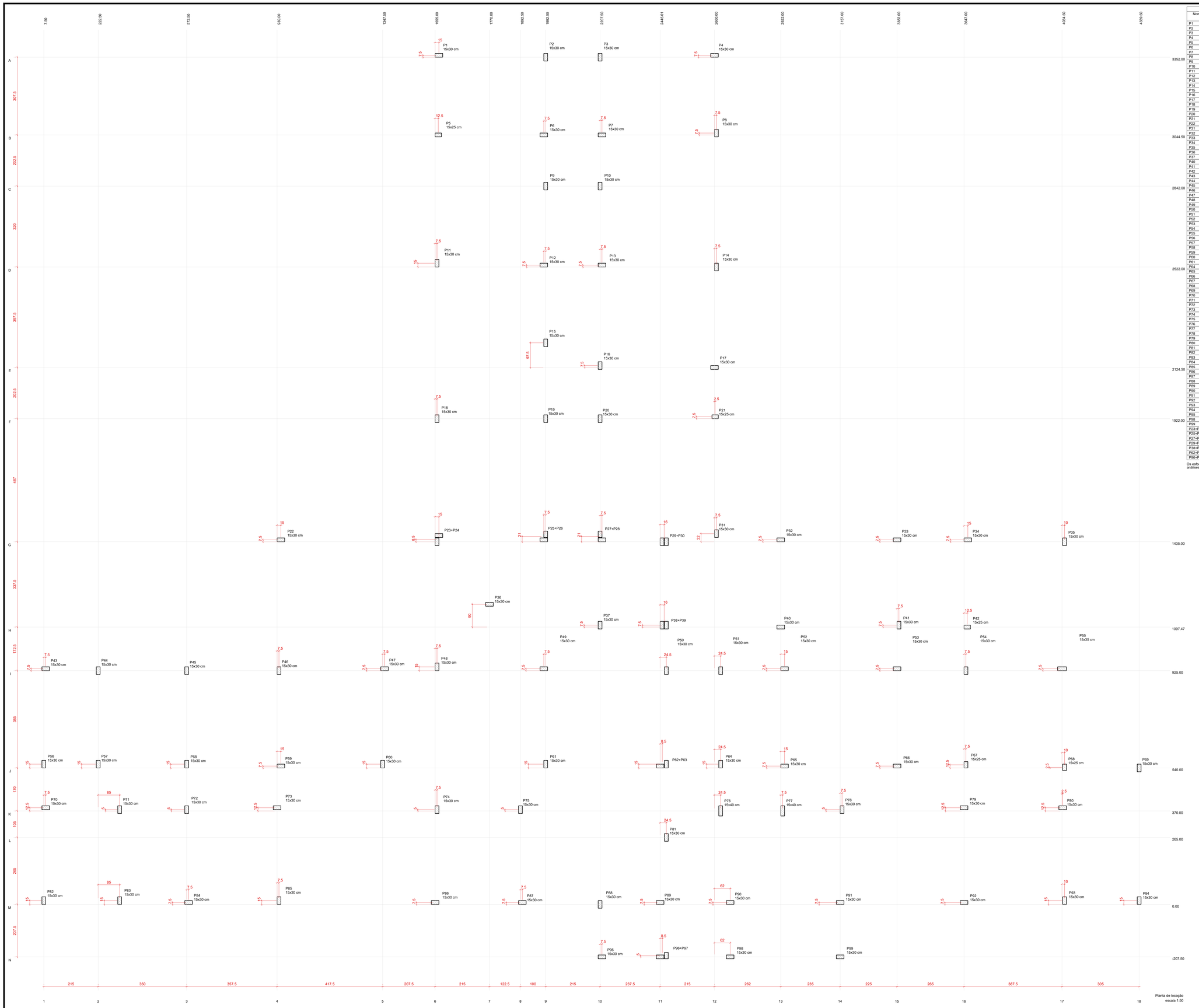


Nome	Seção (cm)	X (cm)	Y (cm)	Carga Máx. (tf)	Carga Mín. (tf)	Pilar							
						Mx Máximo (kgf.m)		My Máximo (kgf.m)		Fx Máximo (tf)		Fy Máximo (tf)	
						Positivo	Negativo	Positivo	Negativo	Positivo	Negativo	Positivo	Negativo
P1	15x30	1570.00	3359.50	6.3	6.0	0	-300	0	-500	0.0	-0.6	0.4	0.0
P2	15x30	1992.50	3352.00	8.7	8.1	0	-500	200	0	0.5	0.0	0.0	0.0
P3	15x30	2207.50	3352.00	9.5	8.9	100	-300	0	-200	0.0	-0.7	0.7	0.0
P4	15x30	2660.00	3359.50	6.6	6.1	100	-100	400	0	0.7	0.0	0.4	0.0
P5	15x25	1567.50	3044.50	12.9	12.2	0	-500	0	-400	0.0	-0.9	1.0	0.0
P6	15x30	1985.00	3044.50	8.9	8.3	200	0	300	-300	0.7	0.0	0.0	-0.8
P7	15x30	2215.00	3044.50	10.1	9.4	300	0	0	-700	0.0	-1.1	0.0	-0.6
P8	15x30	2667.50	3052.00	13.1	12.5	0	-600	300	0	0.9	0.0	1.5	0.0
P9	15x30	1992.50	2842.00	8.4	7.8	200	-300	200	0	0.8	0.0	0.5	0.0
P10	15x30	2207.50	2842.00	8.6	7.9	200	-400	0	-300	0.0	-0.8	0.4	-0.2
P11	15x30	1562.50	2537.00	16.0	15.2	0	-700	0	-300	0.0	-0.9	1.0	0.0
P12	15x30	1985.00	2529.50	10.3	9.6	100	-200	400	-200	0.8	0.0	0.2	-0.3
P13	15x30	2215.00	2529.52	11.6	10.8	100	-100	0	-700	0.0	-0.9	0.3	-0.2
P14	15x30	2667.50	2522.00	13.7	13.0	700	0	300	0	0.8	0.0	0.0	-1.3
P15	15x30	1992.50	2222.00	9.5	8.8	300	-200	200	-200	0.8	0.0	0.2	-0.3
P16	15x30	2207.52	2132.00	9.3	8.1	400	-100	0	-400	0.0	-0.9	0.0	-0.7
P17	15x30	2660.02	2124.50	8.2	7.7	300	0	700	0	1.2	0.0	0.0	-0.6
P18	15x30	1562.50	1922.00	15.9	15.2	500	0	0	-400	0.0	-1.1	0.0	-1.4
P19	15x30	1992.50	1922.00	12.2	11.2	200	-500	300	0	0.8	0.0	0.5	0.0
P20	15x30	2207.52	1922.00	11.3	10.0	200	-500	0	-500	0.0	-0.9	0.7	0.0
P21	15x25	2662.52	1929.50	10.9	10.4	0	-200	500	0	1.1	0.0	0.6	0.0
P22	15x30	945.00	1442.50	8.6	8.3	0	-500	0	-700	0.0	-1.7	1.0	0.0
P31	15x30	2667.52	1497.00	8.9	8.5	500	0	300	0	0.9	0.0	0.0	-0.7
P32	15x30	2922.00	1442.50	12.0	11.3	0	-200	200	-100	0.2	-0.2	0.7	0.0
P33	15x30	3382.00	1442.50	9.2	8.5	100	-300	300	-200	0.5	0.0	0.5	0.0
P34	15x30	3662.00	1442.50	9.1	8.5	0	-200	200	-400	0.1	-0.3	0.6	0.0
P35	15x30	4044.50	1435.00	8.7	8.3	0	-1000	200	0	0.6	0.0	1.8	0.0
P36	15x30	1770.00	1197.50	10.7	10.0	100	-200	200	-400	0.5	0.0	0.2	-0.1
P37	15x30	2207.50	1105.00	11.2	10.4	400	-200	0	-100	0.0	-0.3	0.7	0.0
P40	15x30	2922.00	1097.50	12.2	11.2	300	0	300	-200	0.3	0.0	0.0	-0.8
P41	15x30	3389.50	1105.00	9.7	8.6	700	0	300	0	0.7	0.0	0.0	-1.1
P42	15x25	3659.50	1097.47	10.4	9.3	200	0	0	-400	0.2	-0.8	0.0	-0.4
P43	15x30	15.00	932.50	5.4	4.8	0	-500	200	-100	0.2	0.0	1.0	0.0
P44	15x30	222.50	925.00	10.6	9.9	0	-1100	0	-200	0.0	-0.5	2.2	0.0
P45	15x30	572.50	925.00	10.4	9.7	0	-600	200	0	0.4	0.0	0.9	0.0
P46	15x30	937.50	925.00	15.6	15.2	500	-200	0	-200	0.0	-0.6	0.0	-0.8
P47	15x30	1355.00	932.50	9.5	8.9	0	-300	600	0	1.5	0.0	0.8	0.0
P48	15x30	1562.50	940.00	14.8	14.0	0	-600	0	-200	0.0	-0.6	1.1	0.0
P49	15x30	1985.00	932.50	11.5	10.9	0	-500	100	-200	0.0	-0.5	1.0	0.0
P50	15x30	2469.50	925.00	5.8	4.5	300	-400	100	-200	0.0	-0.3	0.8	-0.2
P51	15x30	2684.50	925.00	7.2	6.5	100	-700	100	-200	0.2	-0.1	1.1	0.0
P52	15x30	2937.00	932.50	11.8	10.8	0	-400	200	-300	0.2	-0.2	0.8	0.0
P53	15x30	3382.00	932.50	10.2	8.9	200	-100	400	0	0.6	0.0	0.4	-0.1
P54	15x30	3654.50	925.00	12.1	11.0	200	-300	100	-200	0.1	-0.2	0.5	0.0
P55	15x35	4034.50	932.50	11.6	10.9	600	0	500	0	0.4	0.0	0.0	-1.5
P56	15x30	7.50	555.00	7.1	6.6	600	0	100	-200	0.1	-0.1	0.0	-1.3
P57	15x30	222.50	555.00	10.9	10.1	800	0	100	-200	0.0	-0.2	0.0	-2.3
P58	15x30	572.50	555.00	11.9	10.6	400	-200	200	0	0.2	0.0	0.0	-0.8
P59	15x30	945.00	547.50	11.8	11.1	300	0	200	-200	0.1	-0.5	0.0	-0.8
P60	15x30	1347.50	555.00	11.7	10.9	500	-200	100	-200	0.1	-0.1	0.0	-0.8
P61	15x30	1992.50	555.00	13.8	12.9	400	-300	400	0	0.8	0.0	0.0	-0.8
P64	15x30	2684.50	555.00	8.2	5.9	700	-200	0	-100	0.0	-0.3	0.0	-1.3
P65	15x30	2937.00	547.50	12.6	10.4	400	0	200	-200	0.1	-0.4	0.0	-0.7
P66	15x30	3382.00	547.50	12.0	11.2	0	-300	200	-100	0.3	0.0	0.6	0.0
P67	15x25	3654.50	552.50	12.0	11.2	300	-200	0	-100	0.0	-0.4	0.0	-0.7
P68	15x25	4044.50	542.50	9.7	8.3	300	-300	100	0	0.2	0.0	0.2	-0.4
P69	15x30	4339.50	540.00	7.1	6.6	200	-500	200	0	0.4	0.0	0.9	0.0
P70	15x30	15.00	382.50	7.4	6.8	0	-200	0	-300	0.0	-0.5	0.5	0.0
P71	15x30	307.50	375.00	7.8	7.0	200	-500	100	-200	0.3	-0.2	0.6	0.0
P72	15x30	572.50	375.00	10.0	8.7	100	-500	0	-400	0.0	-0.8	0.9	0.0
P73	15x30	930.00	382.50	13.8	13.0	100	-200	0	-400	0.0	-0.6	0.6	0.0
P74	15x30	1562.50	375.00	17.9	16.9	700	0	300	0	0.7	0.0	0.0	-1.7
P75	15x30	1892.50	375.00	8.8	8.2	200	-600	200	0	0.4	0.0	0.4	-0.3
P76	15x40	2684.50	370.00	6.1	3.4	800	-600	0	-300	0.0	-0.3	0.2	-0.7
P77	15x40	2929.50	370.00	5.6	3.5	700	-600	200	0	0.4	0.0	0.0	-0.5
P78	15x30	3164.50	375.00	10.5	9.6	300	-500	0	-300	0.0	-1.0	0.5	0.0
P79	15x30	3647.00	382.50	13.8	12.6	100	-200	200	-300	0.3	0.0	0.6	0.0
P80	15x30	4037.00	382.50	9.7	8.6	100	-200	500	0	1.1	0.0	0.6	0.0
P81	15x30	2469.50	265.00	5.5	5.2	0	-700	100	-200	0.1	0.0	1.2	0.0
P82	15x30	7.50	15.00	6.2	5.8	300	0	0	-100	0.0	-0.3	0.0	-0.5
P83	15x30	307.50	15.00	8.8	8.1	300	-200	200	0	0.4	0.0	0.0	-0.4
P84	15x30	580.00	7.50	8.2	7.8	200	0	100	-300	0.0	-0.7	0.0	-0.5
P85	15x30	937.50	15.00	14.0	13.3	400	-200	0	-300	0.0	-0.6	0.0	-0.6
P86	15x30	1555.00	7.50	12.8	12.0	200	0	500	0	0.9	0.0	0.0	-0.6
P87	15x30	1900.00	7.50	7.9	7.5	200	-200	300	-100	0.5	0.0	0.0	-0.3
P88	15x30	2207.50	0.00	15.4	12.3	600	0	100	-200	0.2	-0.1	0.2	-0.1
P89	15x30	2445.01	7.50	8.2	6.9	400	0	200	-300	0.2	0.0	0.0	-0.8
P90	15x30	2722.00	7.50	9.7	9.0	100	-200	400	0	0.7	0.0	0.1	0.0
P91	15x30	3157.00	7.50	16.4	14.2	200	-100	0	-900	0.0	-2.3	0.2	-0.2
P92	15x30	3647.00	7.50	13.3	12.8	300	0	400	0	0.6	0.0	0.0	-0.8
P93	15x30	4044.50	15.00	10.6	10.0	400	-200	300	0	0.6	0.0	0.0	-0.5
P94	15x30	4339.50	15.00	7.5	6.9	700	-200	200	0	0.4	0.0	0.0	-0.9
P95	15x30	2215.00	-207.50	5.1	1.8	400	0	100	-300	0.0	-0.5	0.0	-0.9
P98	15x30	2722.00	-207.50	9.3	8.9	100	0	100	-400	0.0	-0.7	0.1	-0.2
P99	15x30	3157.00	-207.50	8.3	5.6	300	0	400	0	0.9	0.0	0.0	-0.6
P23+P24		1570.00	1443.50	20.7	20.0	0	-1100	0	-1900	0.0	-0.6	0.6	0.0
P25+P26		1985.00	1456.00	16.2	15.5	900	0	2200	0	1.6	0.0	0.0	-0.8
P27+P28		2215.00	1456.00	16.4	15.6	600	0	0	-1600	0.0	-0.9	0.0	-0.7
P29+P30		2461.00	1435.00	11.7	10.1	400	-900	500	-200	0.0	-0.7	0.8	0.0
P38+P39		2461.00	1105.00	15.7	14.9	300	-1800	0	-800	0.0	-0.6	1.7	0.0
P62+P63		2453.50	555.00	17.5	16.7	2200	0	100	-400	0.1	-0.2	0.0	-1.3
P96+P97		2453.51	-202.50	9.7	8.4	1800	0	900	0	0.3	-0.4	0.0	-1.7

Os esforços indicados nesta tabela são os valores máximos obtidos pela envoltória de todas as combinações definidas para as fundações. Para análises complementares, deve-se consultar o relatório de esforços na fundação, que apresenta os valores calculados para cada combinação.

Locação no eixo X	
Coordenadas (cm)	Nome
7.50	P56; P82
15.00	P43; P70
222.50	P44; P57
307.50	P71; P83
572.50	P45; P58; P72
580.00	P84
930.00	P73
937.50	P46; P85
945.00	P22; P59
1347.50	P60
1555.00	P86
1562.50	P11; P18; P48; P74
1567.50	P5
1570.00	P1; P23+P24
1770.00	P36
1892.50	P75
1900.00	P87
1985.00	P6; P12; P25+P26; P49
1992.50	P2; P9; P15; P19; P61
2207.50	P3; P10; P37; P88
2207.52	P16; P20
2215.00	P7; P13; P27+P28; P95
2445.01	P89
2453.50	P62+P63
2453.51	P96+P97
2461.00	P29+P30; P38+P39
2469.50	P50; P81
2660.00	P4
2660.02	P17
2662.52	P21
2667.50	P8; P14
2667.52	P31
2684.50	P51; P64; P76
2722.00	P90; P98
2922.00	P32; P40
2929.50	P77
2937.00	P52; P65
3157.00	P91; P99
3164.50	P78
3382.00	P33; P53; P66
3389.50	P41
3647.00	P79; P92
3654.50	P54; P67
3659.50	P42
4034.50	P55
4037.00	P80
4044.50	P35; P68; P93
4339.50	P69; P94

Locação no eixo Y	
Coordenadas (cm)	Nome
3359.50	P1; P4
3352.00	P2; P3
3052.00	P8
3044.50	P5; P6; P7
2842.00	P9; P10
2537.00	P11
2529.52	P13
2529.50	P12
2522.00	P14
2222.00	P15
2132.00	P16
2124.50	P17
1929.50	P21
1922.00	P18; P19; P20
1497.00	P31
1456.00	P25+P26; P27+P28
1443.50	P23+P24
1442.50	P22; P32; P33; P34
1435.00	P29+P30; P35
1197.50	P36
1105.00	P37; P38+P39; P41
1097.50	P40
1097.47	P42
940.00	P48
932.50	P43; P47; P49; P52; P53; P55
925.00	P44; P45; P46; P50; P51; P54
555.00	P56; P57; P58; P60; P61; P62+P63; P64
547.50	P59; P65
542.50	P68; P69
540.00	P66
552.50	P67
382.50	P70; P73; P79; P80
375.00	P71; P72; P74; P75; P78
370.00	P76; P77
265.00	P81
15.00	P82; P83; P85; P93; P94
7.50	P84; P86; P87; P89; P90; P91; P92
0.00	P88
-202.50	P96+P97
-207.50	P95; P98; P99

PROJETO ESTRUTURAL

AMAI
ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Resp. Técnico:
AMANDA CUNICO CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903
Dados: 2023.06.01 09:28:36 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978
DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20937130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978
Dados: 2023.06.07 09:20:05 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

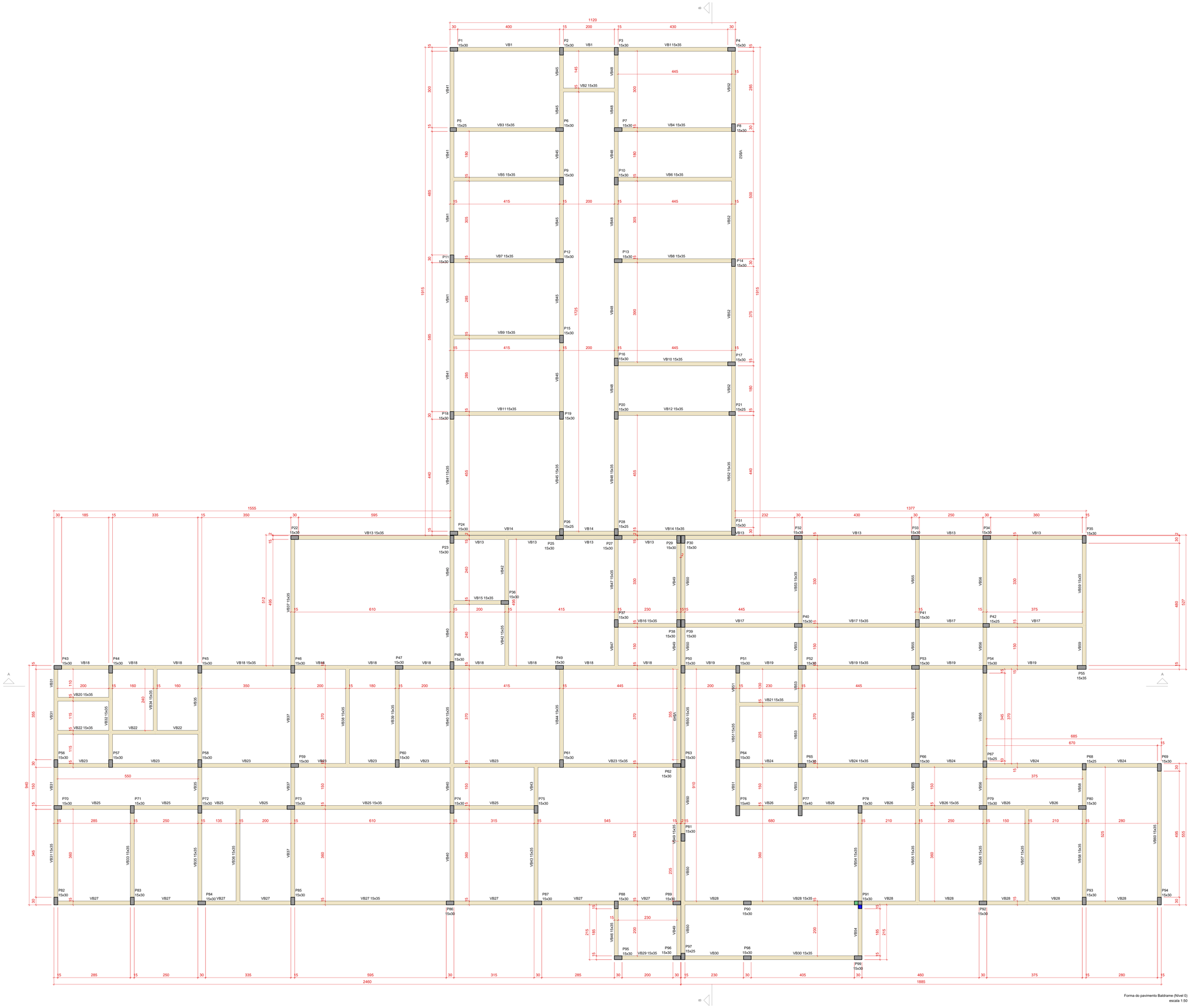
Escala: Indicada

Área: 760,20 m²

Desenho: Amanda

Especificação: Planta de locação
Cargas nas fundações

Prancha: EST 01/21



Forma do pavimento Baldrame (Nível 0)
escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nivel (cm)
VB1	15x35	0	0
VB2	15x35	0	0
VB3	15x35	0	0
VB4	15x35	0	0
VB5	15x35	0	0
VB6	15x35	0	0
VB7	15x35	0	0
VB8	15x35	0	0
VB9	15x35	0	0
VB10	15x35	0	0
VB11	15x35	0	0
VB12	15x35	0	0
VB13	15x35	0	0
VB14	15x35	0	0
VB15	15x35	0	0
VB16	15x35	0	0
VB17	15x35	0	0
VB18	15x35	0	0
VB19	15x35	0	0
VB20	15x35	0	0
VB21	15x35	0	0
VB22	15x35	0	0
VB23	15x35	0	0
VB24	15x35	0	0
VB25	15x35	0	0
VB26	15x35	0	0
VB27	15x35	0	0
VB28	15x35	0	0
VB29	15x35	0	0
VB30	15x35	0	0
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VB36	15x35	0	0
VB37	15x35	0	0
VB38	15x35	0	0
VB39	15x35	0	0
VB40	15x35	0	0
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VB42	15x35	0	0
VB43	15x35	0	0
VB44	15x35	0	0
VB45	15x35	0	0
VB46	15x35	0	0
VB47	15x35	0	0
VB48	15x35	0	0
VB49	15x35	0	0
VB50	15x35	0	0
VB51	15x35	0	0
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VB53	15x35	0	0
VB54	15x35	0	0
VB55	15x35	0	0
VB56	15x35	0	0
VB57	15x35	0	0
VB58	15x35	0	0
VB59	15x35	0	0
VB60	15x35	0	0

Características dos materiais	
fck	Ecs
(kgf/cm²)	(kgf/cm²)
300	268384

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nivel (cm)
P1	15x30	0	0
P2	15x30	0	0
P3	15x30	0	0
P4	15x30	0	0
P5	15x25	0	0
P6	15x30	0	0
P7	15x30	0	0
P8	15x30	0	0
P9	15x30	0	0
P10	15x30	0	0
P11	15x30	0	0
P12	15x30	0	0
P13	15x30	0	0
P14	15x30	0	0
P15	15x30	0	0
P16	15x30	0	0
P17	15x30	0	0
P18	15x30	0	0
P19	15x30	0	0
P20	15x30	0	0
P21	15x25	0	0
P22	15x30	0	0
P23	15x30	0	0
P24	15x30	0	0
P25	15x30	0	0
P26	15x25	0	0
P27	15x30	0	0
P28	15x25	0	0
P29	15x30	0	0
P30	15x30	0	0
P31	15x30	0	0
P32	15x30	0	0
P33	15x30	0	0
P34	15x30	0	0
P35	15x30	0	0
P36	15x30	0	0
P37	15x30	0	0
P38	15x30	0	0
P39	15x30	0	0
P40	15x30	0	0
P41	15x30	0	0
P42	15x25	0	0
P43	15x30	0	0
P44	15x30	0	0
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P99	15x30	0	0

Legenda dos pilares
Pilar que passa
Pilar com mudança de seção

PROJETO ESTRUTURAL

AMAI
ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Resp. Técnico:
AMANDA CUNICO
CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903
Dados: 2023.06.01 09:27:58 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI
PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978
DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20917300001562, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978
Dados: 2023.06.07 09:18:47 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

Escala: Indicada

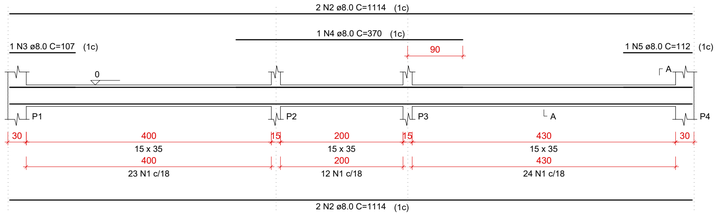
Área: 760,20 m²

Desenho: Amanda

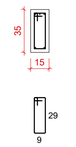
Especificação: Planta de forma do pavimento baldrame

Prancha: EST 02/21

VB1
ESC 1:50

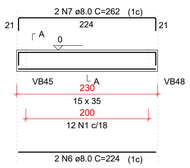


SEÇÃO A-A
ESC 1:25

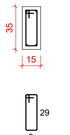


59 N1 ø5.0 C=87

VB2
ESC 1:50

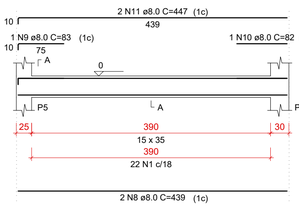


SEÇÃO A-A
ESC 1:25

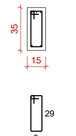


12 N1 ø5.0 C=87

VB3
ESC 1:50

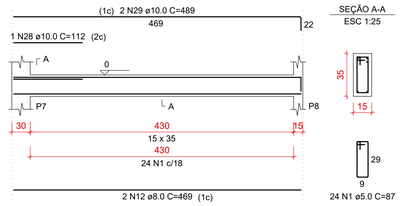


SEÇÃO A-A
ESC 1:25



22 N1 ø5.0 C=87

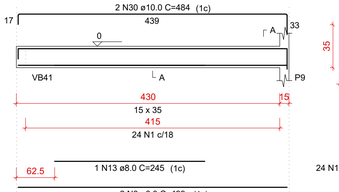
VB4
ESC 1:50



SEÇÃO A-A
ESC 1:25

24 N1 ø5.0 C=87

VB5
ESC 1:50



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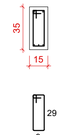
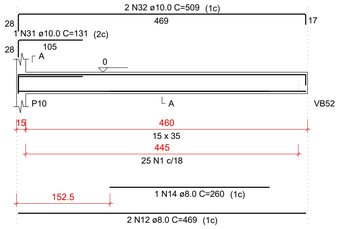
ESC 1:25

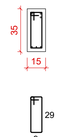


24 N1 ø5.0 C=87

VB6
ESC 1:50

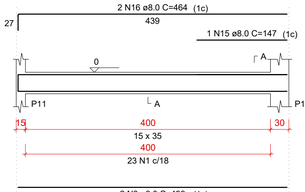


SEÇÃO A-A
ESC 1:25

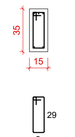


25 N1 ø5.0 C=87

VB7
ESC 1:50

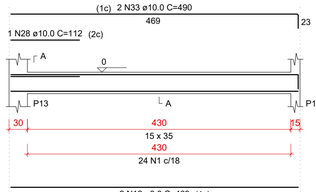


SEÇÃO A-A
ESC 1:25

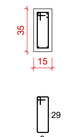


23 N1 ø5.0 C=87

VB8
ESC 1:50

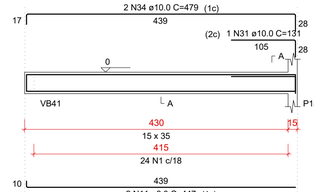


SEÇÃO A-A
ESC 1:25

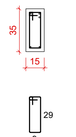


24 N1 ø5.0 C=87

VB9
ESC 1:50

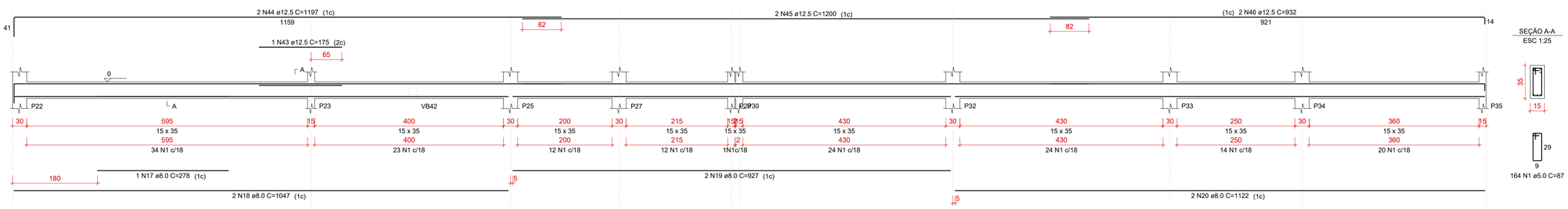


SEÇÃO A-A
ESC 1:25



24 N1 ø5.0 C=87

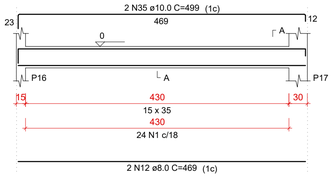
VB13
ESC 1:50



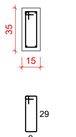
SEÇÃO A-A
ESC 1:25

164 N1 ø5.0 C=87

VB10
ESC 1:50

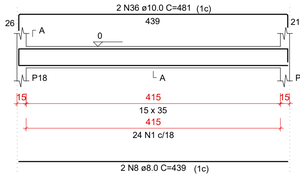


SEÇÃO A-A
ESC 1:25

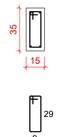


24 N1 ø5.0 C=87

VB11
ESC 1:50

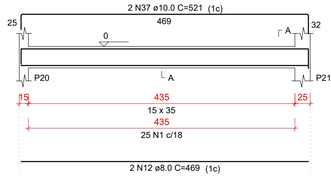


SEÇÃO A-A
ESC 1:25



24 N1 ø5.0 C=87

VB12
ESC 1:50



SEÇÃO A-A
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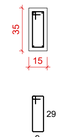
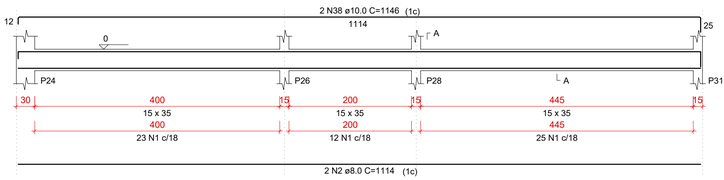
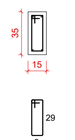


25 N1 ø5.0 C=87

VB14
ESC 1:50

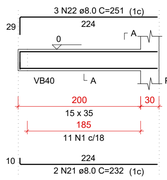


SEÇÃO A-A
ESC 1:25

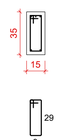


60 N1 ø5.0 C=87

VB15
ESC 1:50

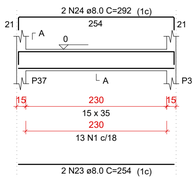


SEÇÃO A-A
ESC 1:25

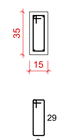


11 N1 ø5.0 C=87

VB16
ESC 1:50

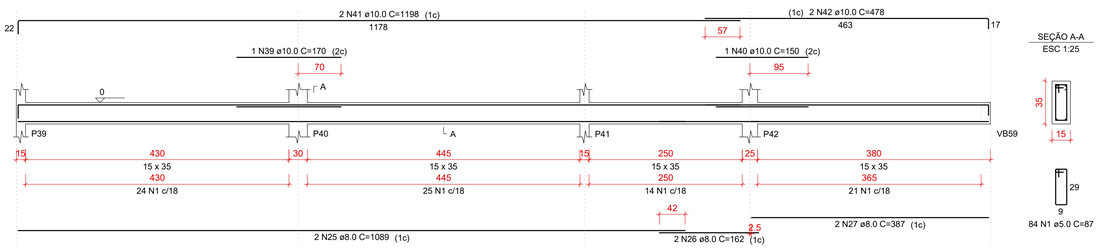


SEÇÃO A-A
ESC 1:25



13 N1 ø5.0 C=87

VB17
ESC 1:50



SEÇÃO A-A
ESC 1:25

84 N1 ø5.0 C=87

RELAÇÃO DO AÇO

VB1	VB2	VB3
VB4	VB5	VB6
VB7	VB8	VB9
VB10	VB11	VB12
VB13	VB14	VB15
VB16	VB17	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	642	87	55854
CA50	2	8.0	6	1114	6684
	3	8.0	1	107	107
	4	8.0	1	370	370
	5	8.0	1	112	112
	6	8.0	2	224	448
	7	8.0	2	262	524
	8	8.0	8	439	3512
	9	8.0	1	83	83
	10	8.0	1	82	82
	11	8.0	4	447	1788
	12	8.0	10	469	4690
	13	8.0	1	245	245
	14	8.0	1	260	260
	15	8.0	1	147	147
	16	8.0	2	464	928
	17	8.0	1	278	278
	18	8.0	2	1047	2094
	19	8.0	2	927	1854
	20	8.0	2	1122	2244
	21	8.0	2	232	464
	22	8.0	3	251	753
	23	8.0	2	254	508
	24	8.0	2	292	584
	25	8.0	2	1089	2178
	26	8.0	2	162	324
	27	8.0	2	387	774
	28	10.0	2	112	224
	29	10.0	2	489	978
	30	10.0	2	484	968
	31	10.0	2	131	262
	32	10.0	2	509	1018
	33	10.0	2	490	980
	34	10.0	2	479	958
	35	10.0	2	499	998
	36	10.0	2	481	962
	37	10.0	2	521	1042
	38	10.0	2	1146	2292
	39	10.0	1	170	170
	40	10.0	1	150	150
	41	10.0	2	1198	2396
	42	10.0	2	478	956
	43	12.5	1	175	175
	44	12.5	2	1197	2394
	45	12.5	2	1200	2400
	46	12.5	2	932	1854

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	320.4	139
	10.0	143.5	97.3
	12.5	68.3	72.4
CA60	5.0	558.5	94.7

PESO TOTAL (kg)	
CA50	308.8
CA60	94.7

Volume de concreto (C-30) = 5.95 m³
Área de forma = 96.28 m²

PROJETO ESTRUTURAL

AMAI
ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Escala: Indicada

Área: 760,20 m²

Desenho: Amanda

Resp. Técnico:
AMANDA CUNICO CARNEIRO:06804905903 Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903 Dados: 2023.06.01 09:27:46 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

CLORI PEROZA:72217570978 Assinado de forma digital por CLORI PEROZA:72217570978 DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20937130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978 Dados: 2023.06.07 09:17:48 -03'00'

Município:
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

Especificação: Vigas Baldrame

Prancha: EST 03/21

VB18
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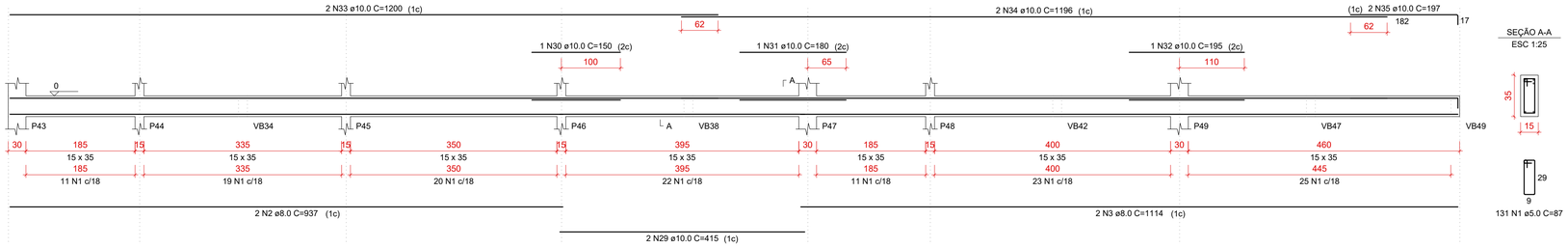
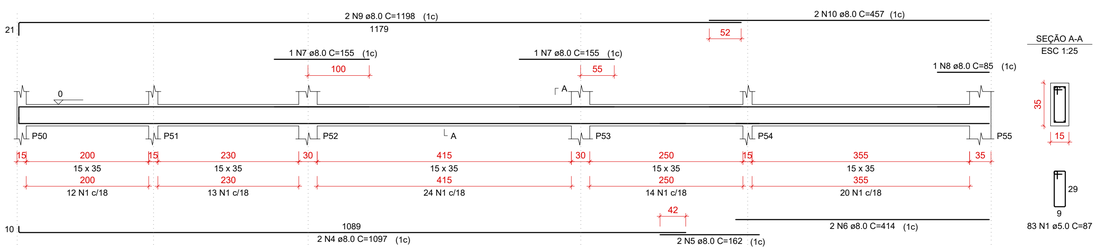


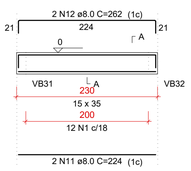
SEÇÃO A-A
ESC 1:25

VB19
ESC 1:50

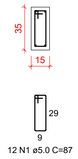


SEÇÃO A-A
ESC 1:25

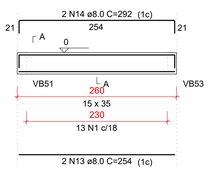
VB20
ESC 1:50



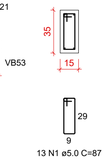
SEÇÃO A-A
ESC 1:25



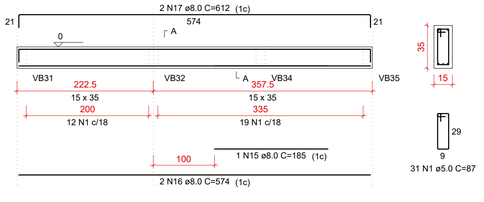
VB21
ESC 1:50



SEÇÃO A-A
ESC 1:25

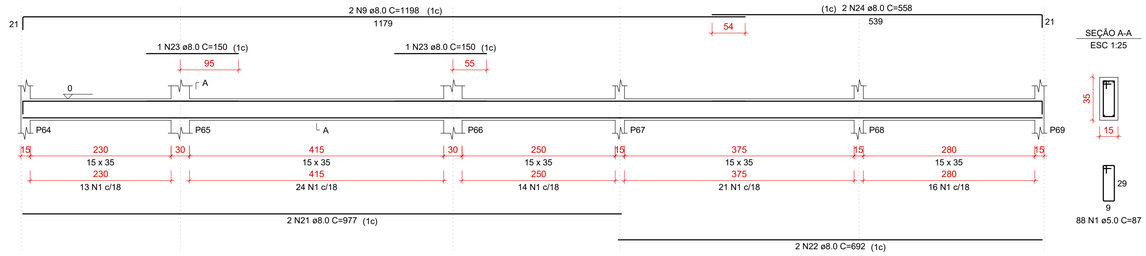


VB22
ESC 1:50



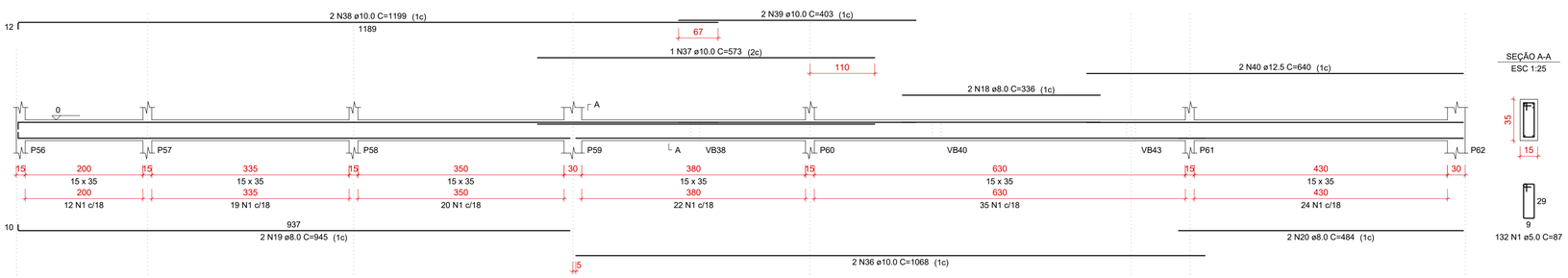
SEÇÃO A-A
ESC 1:25

VB24
ESC 1:50



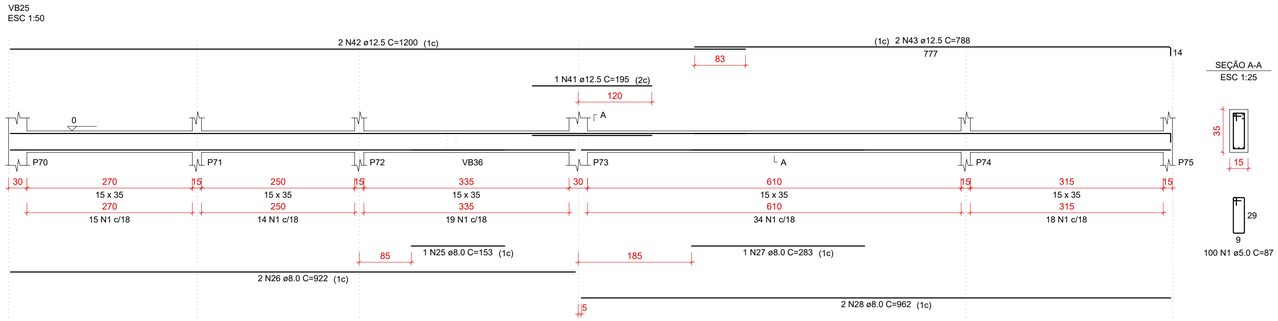
SEÇÃO A-A
ESC 1:25

VB23
ESC 1:50



SEÇÃO A-A
ESC 1:25

VB25
ESC 1:50



SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

VB18 VB19 VB20
VB21 VB22 VB23
VB24 VB25

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	590	87	51330
CA50	2	8.0	2	937	1874
	3	8.0	2	1114	2228
	4	8.0	2	1097	2194
	5	8.0	2	162	324
	6	8.0	2	414	828
	7	8.0	2	155	310
	8	8.0	1	85	85
	9	8.0	4	1198	4792
	10	8.0	2	457	914
	11	8.0	2	224	448
	12	8.0	2	262	524
	13	8.0	2	254	508
	14	8.0	2	292	584
	15	8.0	1	185	185
	16	8.0	2	574	1148
	17	8.0	2	612	1224
	18	8.0	2	336	672
	19	8.0	2	945	1890
	20	8.0	2	484	968
	21	8.0	2	977	1954
	22	8.0	2	692	1384
	23	8.0	2	150	300
	24	8.0	2	558	1116
	25	8.0	1	153	153
	26	8.0	2	922	1844
	27	8.0	1	283	283
	28	8.0	2	962	1924
	29	10.0	2	415	830
	30	10.0	1	150	150
	31	10.0	1	180	180
	32	10.0	1	195	195
	33	10.0	2	1200	2400
	34	10.0	2	1196	2392
	35	10.0	2	197	394
	36	10.0	2	1068	2136
	37	10.0	1	573	573
	38	10.0	2	1199	2398
	39	10.0	2	403	806
	40	12.5	2	640	1280
	41	12.5	1	195	195
	42	12.5	2	1200	2400
	43	12.5	2	788	1576

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	306.6	133.1
	10.0	124.5	84.5
	12.5	54.5	57.8
CA60	5.0	513.3	87

PESO TOTAL (kg)	
CA50	275.3
CA60	87

Volume de concreto (C-30) = 5.47 m³
Área de forma = 88.48 m²

PROJETO ESTRUTURAL

AMAI
ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Escala: Indicada

Área: 760,20 m²

Desenho: Amanda

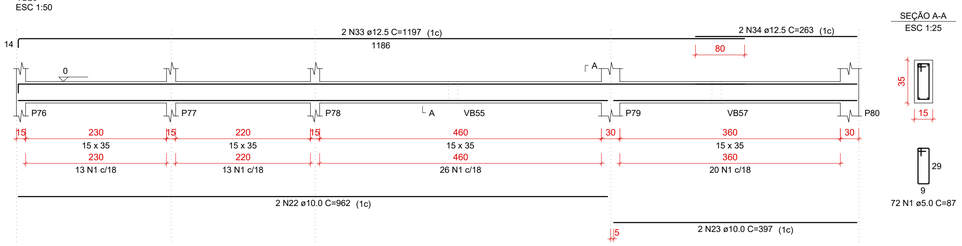
Resp. Técnico:
AMANDA CUNICO CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903
Dados: 2023.06.01 09:30:20 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978
DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20971130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978
Dados: 2023.08.07 09:16:28 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

Especificação: Vigas Baldrame

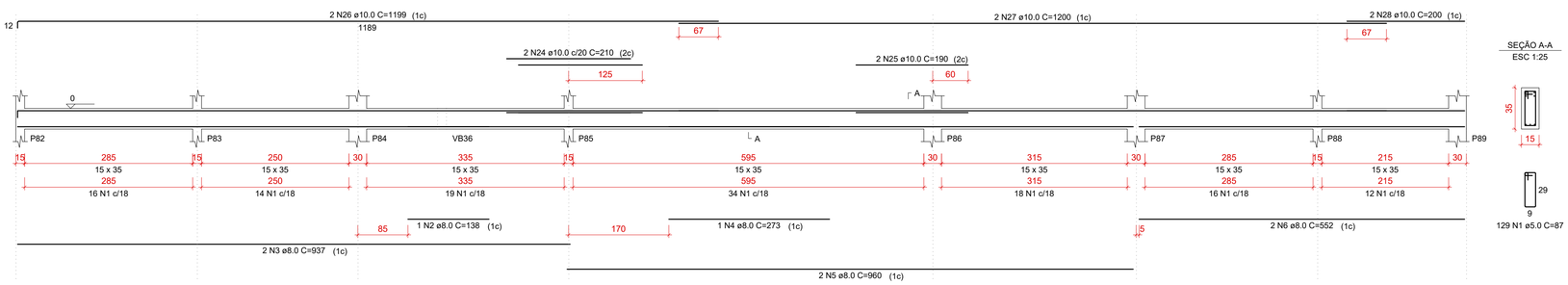
Prancha: EST 04/21

VB26
ESC 1:50



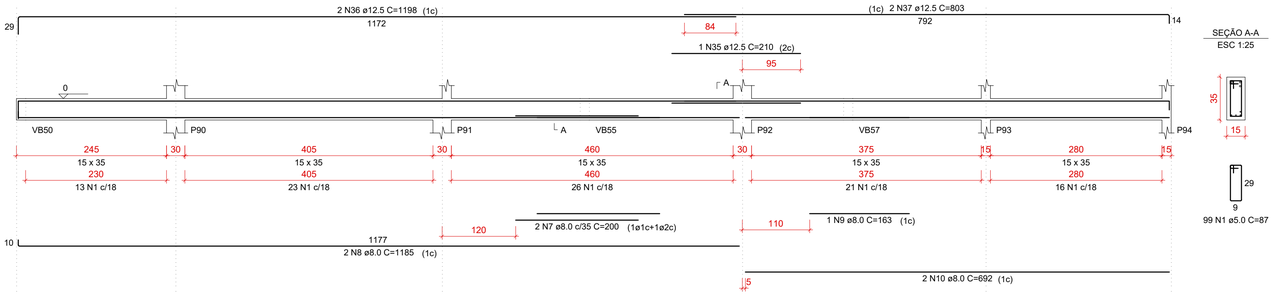
SEÇÃO A-A
ESC 1:25

VB27
ESC 1:50



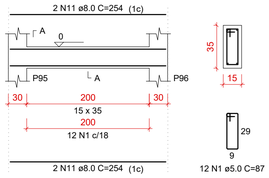
SEÇÃO A-A
ESC 1:25

VB28
ESC 1:50



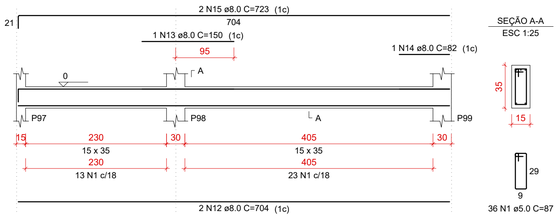
SEÇÃO A-A
ESC 1:25

VB29
ESC 1:50



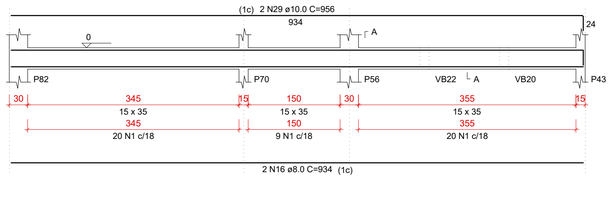
SEÇÃO A-A
ESC 1:25

VB30
ESC 1:50



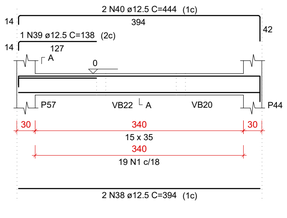
SEÇÃO A-A
ESC 1:25

VB31
ESC 1:50

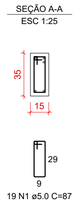


SEÇÃO A-A
ESC 1:25

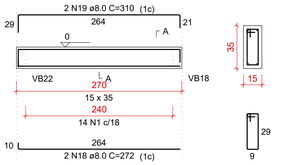
VB32
ESC 1:50



SEÇÃO A-A
ESC 1:25

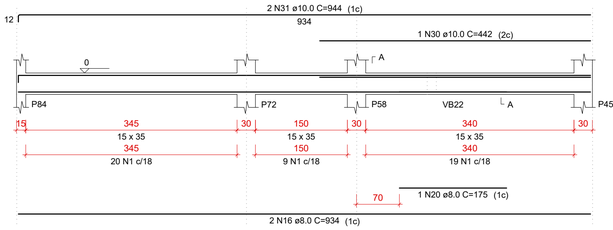


VB34
ESC 1:50

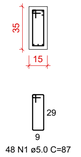


SEÇÃO A-A
ESC 1:25

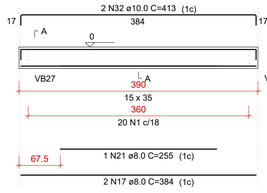
VB35
ESC 1:50



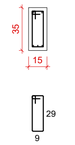
SEÇÃO A-A
ESC 1:25



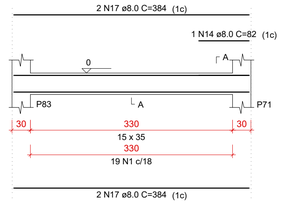
VB36
ESC 1:50



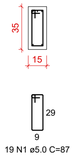
SEÇÃO A-A
ESC 1:25



VB33
ESC 1:50



SEÇÃO A-A
ESC 1:25



RELAÇÃO DO AÇO

VB26 VB27 VB28
VB29 VB30 VB31
VB32 VB33 VB34
VB35 VB36

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	517	87	44979
CA50	2	8.0	1	138	138
	3	8.0	2	937	1874
	4	8.0	1	273	273
	5	8.0	2	960	1920
	6	8.0	2	552	1104
	7	8.0	2	200	400
	8	8.0	2	1185	2370
	9	8.0	1	163	163
	10	8.0	2	692	1384
	11	8.0	4	254	1016
	12	8.0	2	704	1408
	13	8.0	1	150	150
	14	8.0	2	82	164
	15	8.0	2	723	1446
	16	8.0	4	934	3736
	17	8.0	6	384	2304
	18	8.0	2	272	544
	19	8.0	2	310	620
	20	8.0	1	175	175
	21	8.0	1	255	255
	22	10.0	2	962	1924
	23	10.0	2	397	794
	24	10.0	2	210	420
	25	10.0	2	190	380
	26	10.0	2	1199	2398
	27	10.0	2	1200	2400
	28	10.0	2	200	400
	29	10.0	2	956	1912
	30	10.0	1	442	442
	31	10.0	2	944	1888
	32	10.0	2	413	826
	33	12.5	2	1197	2394
	34	12.5	2	263	526
	35	12.5	1	210	210
	36	12.5	2	1198	2396
	37	12.5	2	803	1606
	38	12.5	2	394	788
	39	12.5	1	138	138
	40	12.5	2	444	888

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	214.4	93.1
	10.0	137.8	93.5
	12.5	89.5	94.8
CA60	5.0	449.8	76.3

PESO TOTAL (kg)	
CA50	281.4
CA60	76.3

Volume de concreto (C-30) = 4.79 m³
Área de forma = 77.52 m²

PROJETO ESTRUTURAL

AMAI
ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Escala: Indicada

Área: 760,20 m²

Desenho: Amanda

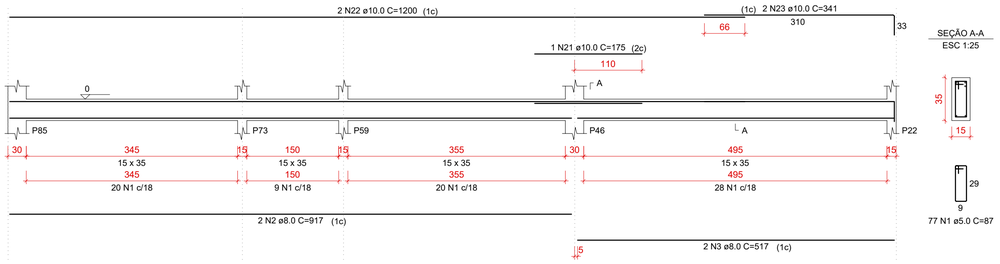
Prancha: EST 05/21

Resp. Técnico:
AMANDA CUNICO CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903
Dados: 2023.06.01 09:28:46 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978
DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20937130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978
Dados: 2023.08.07 09:20:59 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

Especificação: Vigas Baldrame

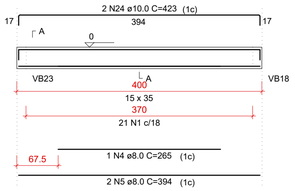
VB37
ESC 1:50



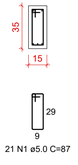
SEÇÃO A-A
ESC 1:25

77 N1 ø5.0 C=87

VB38
ESC 1:50

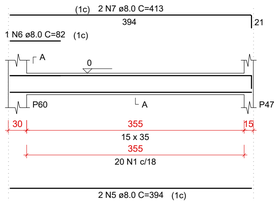


SEÇÃO A-A
ESC 1:25

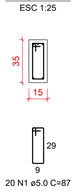


21 N1 ø5.0 C=87

VB39
ESC 1:50



SEÇÃO A-A
ESC 1:25



20 N1 ø5.0 C=87

RELAÇÃO DO AÇO

VB37 VB38 VB39
VB40 VB41 VB42
VB43 VB44 VB45
VB46 VB47

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	510	87	44370
CA50	2	8.0	2	917	1834
	3	8.0	2	517	1034
	4	8.0	1	265	265
	5	8.0	6	394	2364
	6	8.0	2	82	164
	7	8.0	2	413	826
	8	8.0	2	502	1004
	9	8.0	2	535	1070
	10	8.0	1	130	130
	11	8.0	2	557	1114
	12	8.0	2	557	1114
	13	8.0	1	190	190
	14	8.0	2	595	1190
	15	8.0	2	414	828
	16	8.0	2	1077	2154
	17	8.0	2	837	1674
	18	8.0	2	224	448
	19	8.0	2	243	486
	20	8.0	2	527	1054
	21	10.0	2	175	350
	22	10.0	2	1200	2400
	23	10.0	2	341	682
	24	10.0	2	423	846
	25	10.0	2	932	1864
	26	10.0	2	210	420
	27	10.0	2	225	450
	28	10.0	1	112	112
	29	10.0	4	1199	4796
	30	10.0	2	323	646
	31	10.0	1	240	240
	32	10.0	2	1077	2154
	33	10.0	1	218	218
	34	10.0	2	822	1644
	35	10.0	2	786	1572
	36	10.0	2	555	1110
	37	12.5	1	215	215
	38	12.5	2	245	490
	39	12.5	2	1197	2394
	40	12.5	2	817	1634

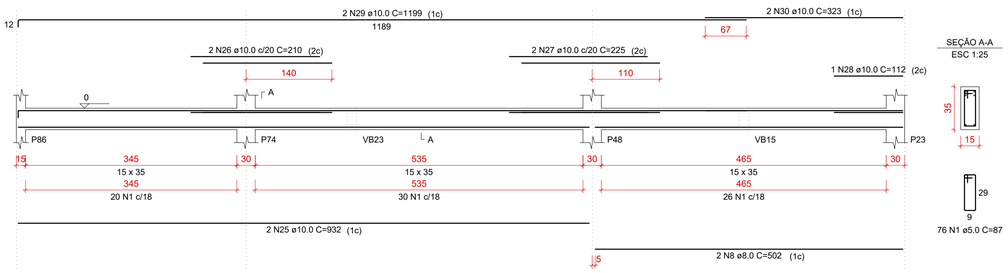
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	189.4	82.2
	10.0	195	132.3
	12.5	47.3	50.2
CA60	5.0	443.7	75.2

PESO TOTAL (kg)	
CA50	264.6
CA60	75.2

Volume de concreto (C-30) = 4.72 m³
Área de forma = 76.42 m²

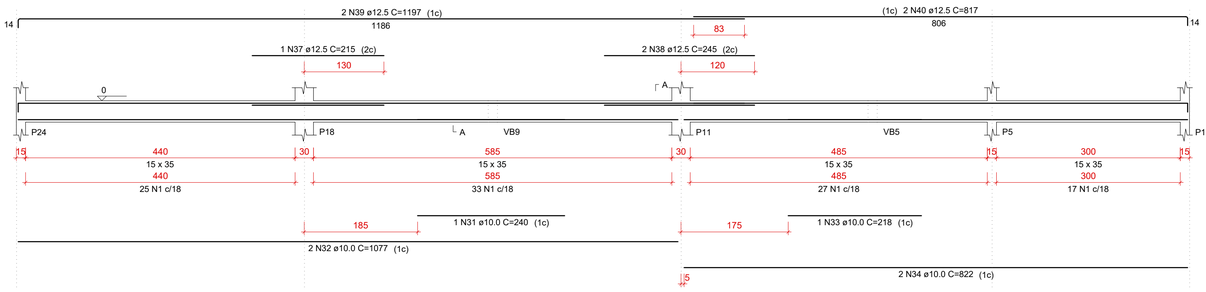
VB40
ESC 1:50



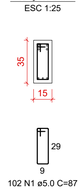
SEÇÃO A-A
ESC 1:25

76 N1 ø5.0 C=87

VB41
ESC 1:50

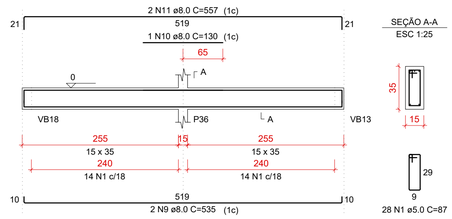


SEÇÃO A-A
ESC 1:25

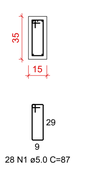


102 N1 ø5.0 C=87

VB42
ESC 1:50

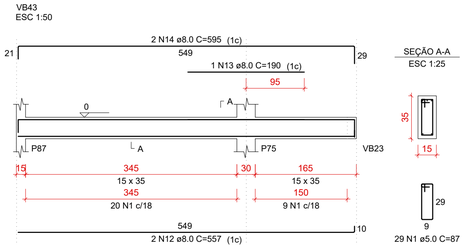


SEÇÃO A-A
ESC 1:25



28 N1 ø5.0 C=87

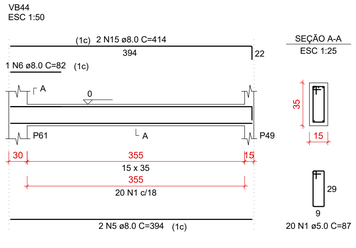
VB43
ESC 1:50



SEÇÃO A-A
ESC 1:25

29 N1 ø5.0 C=87

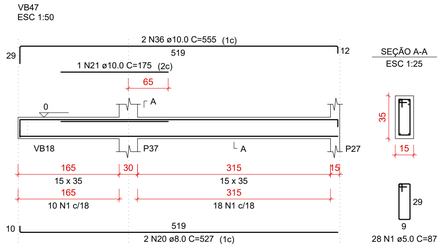
VB44
ESC 1:50



SEÇÃO A-A
ESC 1:25

20 N1 ø5.0 C=87

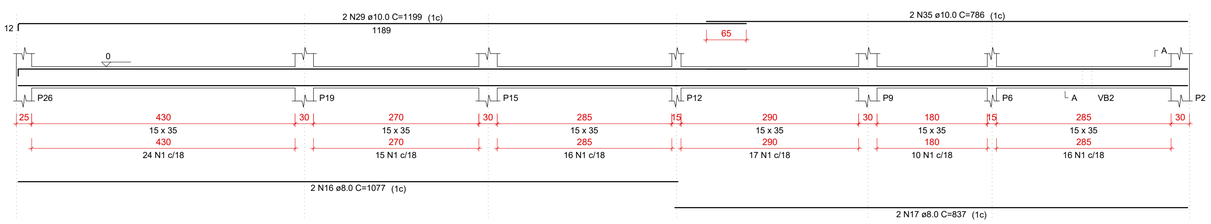
VB47
ESC 1:50



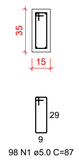
SEÇÃO A-A
ESC 1:25

28 N1 ø5.0 C=87

VB45
ESC 1:50

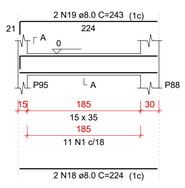


SEÇÃO A-A
ESC 1:25

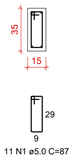


98 N1 ø5.0 C=87

VB46
ESC 1:50



SEÇÃO A-A
ESC 1:25



11 N1 ø5.0 C=87

PROJETO ESTRUTURAL

ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Escala: Indicada

Área: 760,20 m²

Resp. Técnico:
AMANDA CUNICO CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903
Dados: 2023.06.01 09:30:11 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

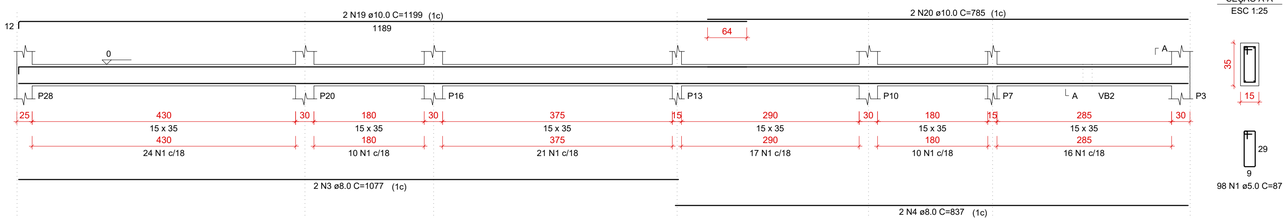
Município:
CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978
DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20937130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978
Dados: 2023.08.07 09:21:46 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

Desenho: Amanda

Especificação: Vigas Baldrame

Prancha: EST 06/21

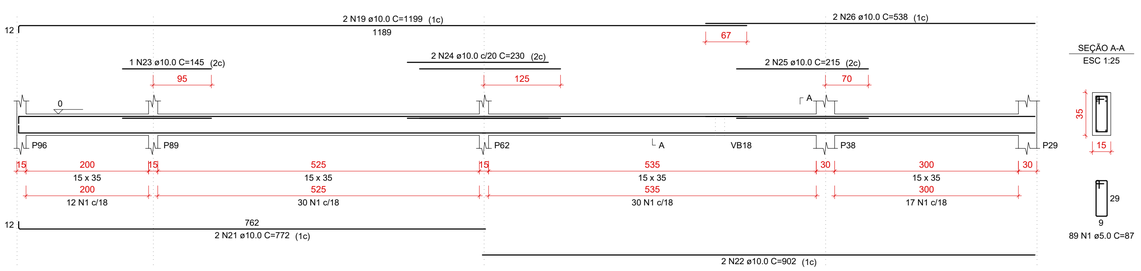
VB48
ESC 1:50



SEÇÃO A-A
ESC 1:25

98 N1 ø5.0 C=87

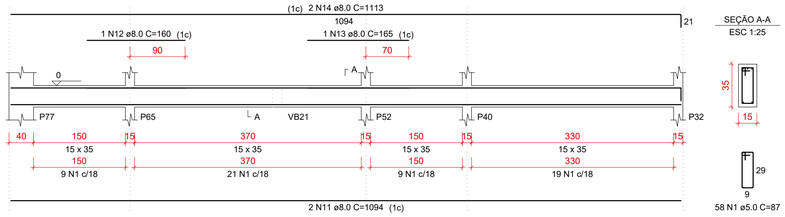
VB49
ESC 1:50



SEÇÃO A-A
ESC 1:25

89 N1 ø5.0 C=87

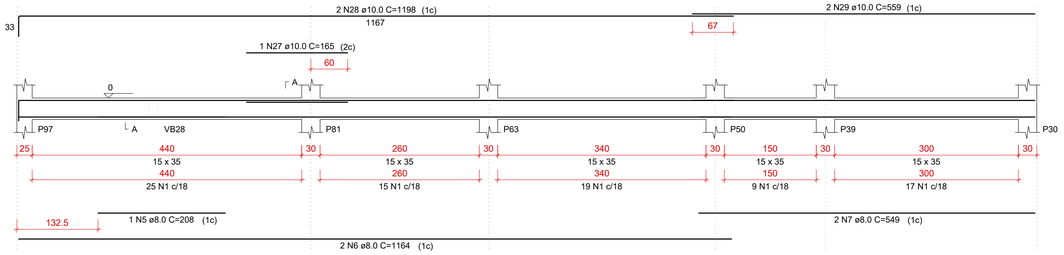
VB53
ESC 1:50



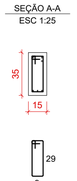
SEÇÃO A-A
ESC 1:25

58 N1 ø5.0 C=87

VB50
ESC 1:50

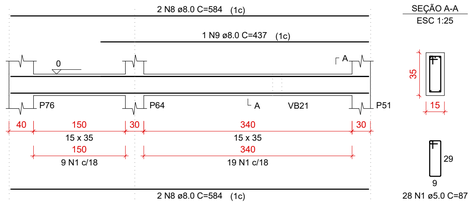


SEÇÃO A-A
ESC 1:25



85 N1 ø5.0 C=87

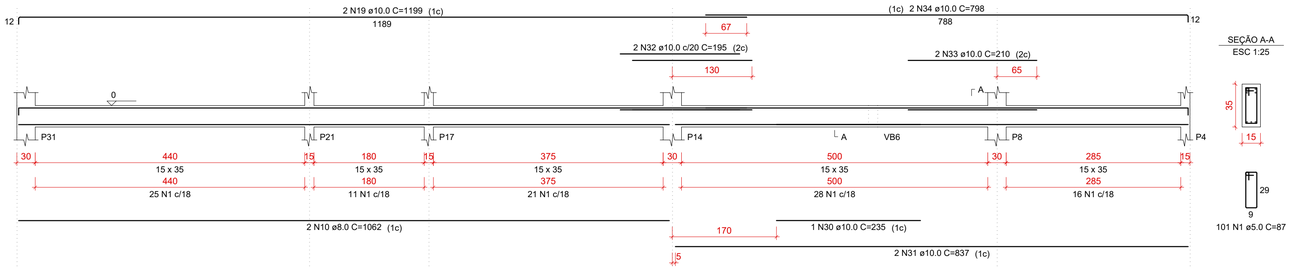
VB51
ESC 1:50



SEÇÃO A-A
ESC 1:25

28 N1 ø5.0 C=87

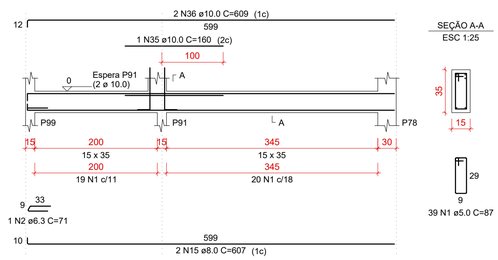
VB52
ESC 1:50



SEÇÃO A-A
ESC 1:25

101 N1 ø5.0 C=87

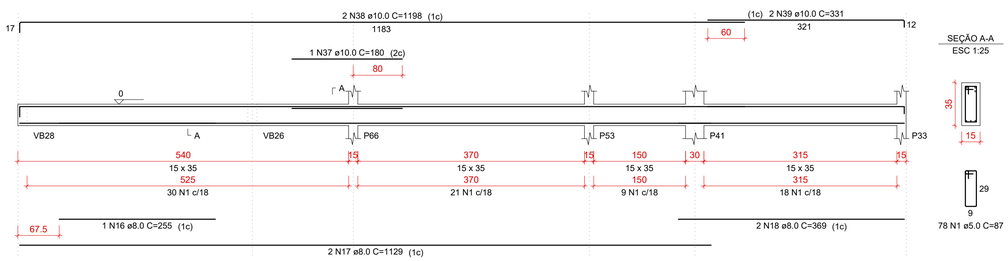
VB54
ESC 1:50



SEÇÃO A-A
ESC 1:25

39 N1 ø5.0 C=87

VB55
ESC 1:50



SEÇÃO A-A
ESC 1:25

78 N1 ø5.0 C=87

RELAÇÃO DO AÇO

VB48 VB49 VB50
VB51 VB52 VB53
VB54 VB55

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	576	87	50112
CA50	2	6.3	1	71	71
	3	8.0	2	1077	2154
	4	8.0	2	837	1674
	5	8.0	1	208	208
	6	8.0	2	1164	2328
	7	8.0	2	549	1098
	8	8.0	4	584	2336
	9	8.0	1	437	437
	10	8.0	2	1062	2124
	11	8.0	2	1094	2188
	12	8.0	1	160	160
	13	8.0	1	165	165
	14	8.0	2	1113	2226
	15	8.0	2	607	1214
	16	8.0	1	255	255
	17	8.0	2	1129	2258
	18	8.0	2	369	738
	19	10.0	6	1199	7194
	20	10.0	2	785	1570
	21	10.0	2	772	1544
	22	10.0	2	902	1804
	23	10.0	1	145	145
	24	10.0	2	230	460
	25	10.0	2	215	430
	26	10.0	2	538	1076
	27	10.0	1	165	165
	28	10.0	2	1198	2396
	29	10.0	2	559	1118
	30	10.0	1	235	235
	31	10.0	2	837	1674
	32	10.0	2	195	390
	33	10.0	2	210	420
	34	10.0	2	798	1596
	35	10.0	1	160	160
	36	10.0	2	609	1218
	37	10.0	1	180	180
	38	10.0	2	1198	2396
	39	10.0	2	331	662

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	0.7	0.2
	8.0	215.6	93.6
	10.0	268.3	182
CA60	5.0	501.1	85

PESO TOTAL (kg)	
CA50	275.8
CA60	85

Volume de concreto (C-30) = 5.24 m³
Área de forma = 84.96 m²

PROJETO ESTRUTURAL

ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Escala: Indicada

Área: 760,20 m²

Resp. Técnico: AMANDA CUNICO CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903 Dados: 2023.06.01 09:29:18 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

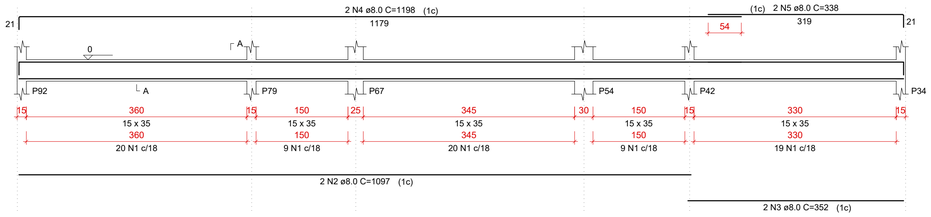
Município: CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978 DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20937130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978 Dados: 2023.08.07 09:14:57 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

Desenho: Amanda

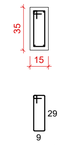
Especificação: Vigas Baldrame

Prancha: EST 07/21

VB56
ESC 1:50

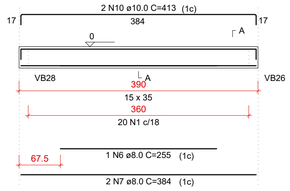


SEÇÃO A-A
ESC 1:25

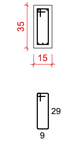


77 N1 ø5.0 C=87

VB57
ESC 1:50

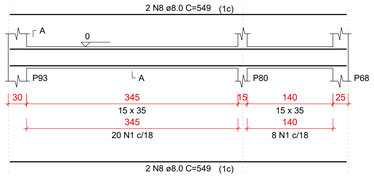


SEÇÃO A-A
ESC 1:25

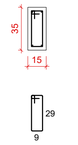


20 N1 ø5.0 C=87

VB58
ESC 1:50

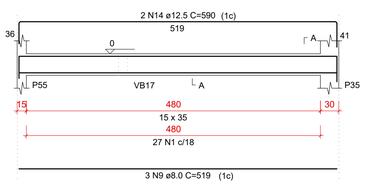


SEÇÃO A-A
ESC 1:25

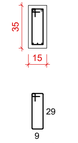


28 N1 ø5.0 C=87

VB59
ESC 1:50

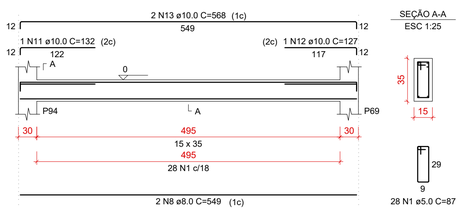


SEÇÃO A-A
ESC 1:25



27 N1 ø5.0 C=87

VB60
ESC 1:50



SEÇÃO A-A
ESC 1:25

28 N1 ø5.0 C=87

RELAÇÃO DO AÇO

VB56
VB59

VB57
VB60

VB58

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	180	87	15660
CA50	2	8.0	2	1097	2194
	3	8.0	2	352	704
	4	8.0	2	1198	2396
	5	8.0	2	338	676
	6	8.0	1	255	255
	7	8.0	2	384	768
	8	8.0	6	549	3294
	9	8.0	3	519	1557
	10	10.0	2	413	826
	11	10.0	1	132	132
	12	10.0	1	127	127
	13	10.0	2	568	1136
	14	12.5	2	590	1180

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	118.4	51.4
	10.0	22.2	15.1
	12.5	11.8	12.5
CA60	5.0	156.6	26.6

PESO TOTAL (kg)	
CA50	79
CA60	26.6

Volume de concreto (C-30) = 1.66 m³

Área de forma = 26.95 m²

PROJETO ESTRUTURAL

AMAI
ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data:
05/2023

Escala:
Indicada

Área:
760,20 m²

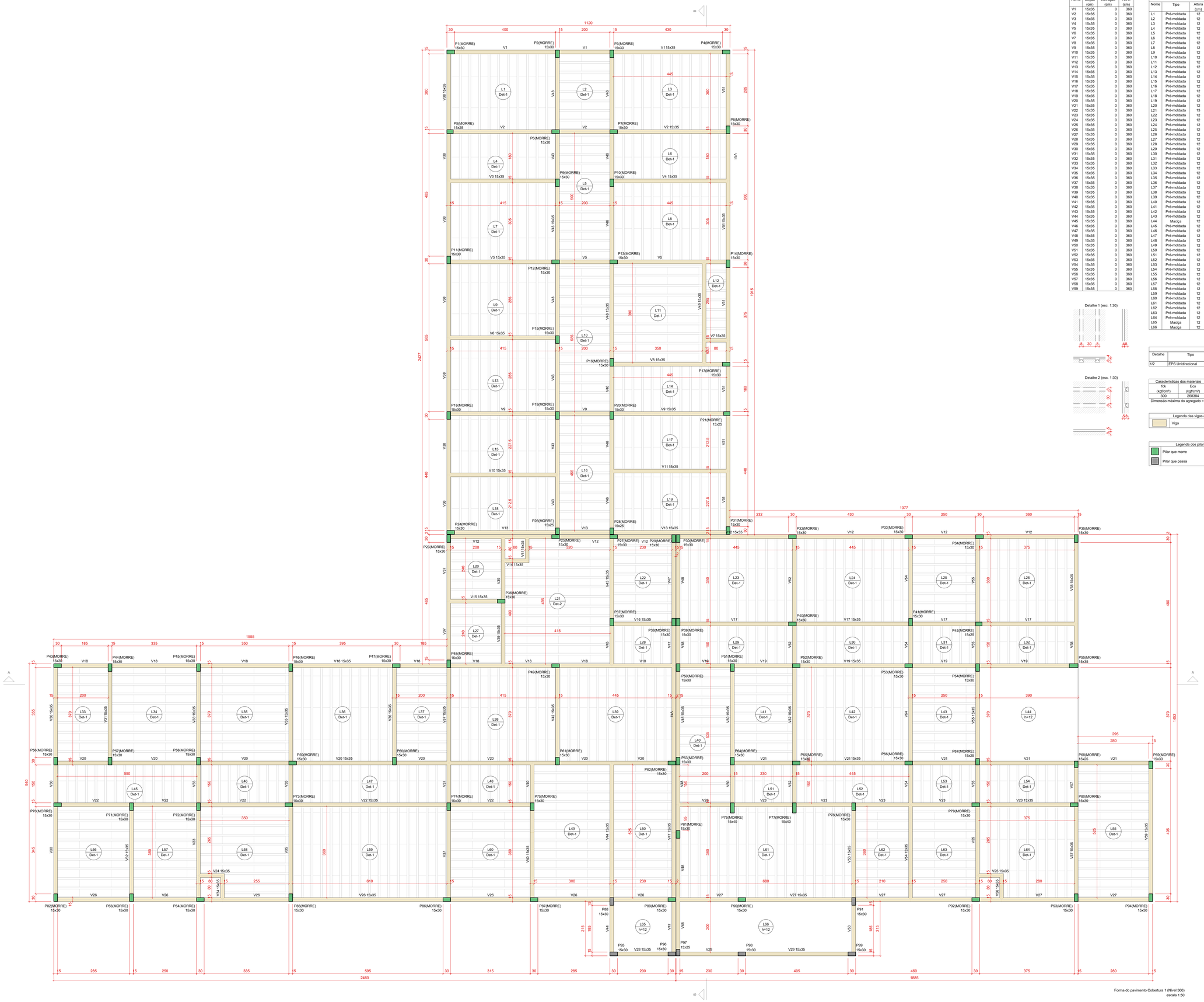
Desenho:
Amanda

Resp. Técnico:
AMANDA CUNICO CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903
Dados: 2023.06.01 09:29:07 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978
DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20937130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978
Dados: 2023.08.07 09:14:10 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

Especificação: Vigas Baldrame

Prancha:
EST 08/21



Vigas

Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	15x35	0	360
V2	15x35	0	360
V3	15x35	0	360
V4	15x35	0	360
V5	15x35	0	360
V6	15x35	0	360
V7	15x35	0	360
V8	15x35	0	360
V9	15x35	0	360
V10	15x35	0	360
V11	15x35	0	360
V12	15x35	0	360
V13	15x35	0	360
V14	15x35	0	360
V15	15x35	0	360
V16	15x35	0	360
V17	15x35	0	360
V18	15x35	0	360
V19	15x35	0	360
V20	15x35	0	360
V21	15x35	0	360
V22	15x35	0	360
V23	15x35	0	360
V24	15x35	0	360
V25	15x35	0	360
V26	15x35	0	360
V27	15x35	0	360
V28	15x35	0	360
V29	15x35	0	360
V30	15x35	0	360
V31	15x35	0	360
V32	15x35	0	360
V33	15x35	0	360
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V36	15x35	0	360
V37	15x35	0	360
V38	15x35	0	360
V39	15x35	0	360
V40	15x35	0	360
V41	15x35	0	360
V42	15x35	0	360
V43	15x35	0	360
V44	15x35	0	360
V45	15x35	0	360
V46	15x35	0	360
V47	15x35	0	360
V48	15x35	0	360
V49	15x35	0	360
V50	15x35	0	360
V51	15x35	0	360
V52	15x35	0	360
V53	15x35	0	360
V54	15x35	0	360
V55	15x35	0	360
V56	15x35	0	360
V57	15x35	0	360
V58	15x35	0	360
V59	15x35	0	360

Lajes

Nome	Tipo	Dados: Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Sobrecarga (kgf/m²): Adicional	Acidental	Localizada
L1	Pré-moldada	12	0	360	143	232	50	-
L2	Pré-moldada	12	0	360	143	232	50	-
L3	Pré-moldada	12	0	360	143	232	50	-
L4	Pré-moldada	12	0	360	143	232	50	-
L5	Pré-moldada	12	0	360	143	232	50	-
L6	Pré-moldada	12	0	360	143	232	50	-
L7	Pré-moldada	12	0	360	143	232	50	-
L8	Pré-moldada	12	0	360	143	232	50	-
L9	Pré-moldada	12	0	360	143	232	50	-
L10	Pré-moldada	12	0	360	143	232	50	-
L11	Pré-moldada	12	0	360	143	232	50	-
L12	Pré-moldada	12	0	360	143	232	50	-
L13	Pré-moldada	12	0	360	143	232	50	-
L14	Pré-moldada	12	0	360	143	232	50	-
L15	Pré-moldada	12	0	360	143	232	50	-
L16	Pré-moldada	12	0	360	143	232	50	-
L17	Pré-moldada	12	0	360	143	232	50	-
L18	Pré-moldada	12	0	360	143	232	50	-
L19	Pré-moldada	12	0	360	143	232	50	-
L20	Pré-moldada	12	0	360	143	232	50	-
L21	Pré-moldada	13	0	360	168	232	50	-
L22	Pré-moldada	12	0	360	143	232	50	-
L23	Pré-moldada	12	0	360	143	232	50	-
L24	Pré-moldada	12	0	360	143	232	50	-
L25	Pré-moldada	12	0	360	143	232	50	-
L26	Pré-moldada	12	0	360	143	232	50	-
L27	Pré-moldada	12	0	360	143	232	50	-
L28	Pré-moldada	12	0	360	143	232	50	-
L29	Pré-moldada	12	0	360	143	232	50	-
L30	Pré-moldada	12	0	360	143	232	50	-
L31	Pré-moldada	12	0	360	143	232	50	-
L32	Pré-moldada	12	0	360	143	232	50	-
L33	Pré-moldada	12	0	360	143	232	50	-
L34	Pré-moldada	12	0	360	143	232	50	-
L35	Pré-moldada	12	0	360	143	232	50	-
L36	Pré-moldada	12	0	360	143	232	50	-
L37	Pré-moldada	12	0	360	143	232	50	-
L38	Pré-moldada	12	0	360	143	232	50	-
L39	Pré-moldada	12	0	360	143	232	50	-
L40	Pré-moldada	12	0	360	143	232	50	-
L41	Pré-moldada	12	0	360	143	232	50	-
L42	Pré-moldada	12	0	360	143	232	50	-
L43	Pré-moldada	12	0	360	143	232	50	-
L44	Maciça	12	0	360	300	232	50	-
L45	Pré-moldada	12	0	360	143	232	50	-
L46	Pré-moldada	12	0	360	143	232	50	-
L47	Pré-moldada	12	0	360	143	232	50	-
L48	Pré-moldada	12	0	360	143	232	50	-
L49	Pré-moldada	12	0	360	143	182	50	-
L50	Pré-moldada	12	0	360	143	182	50	-
L51	Pré-moldada	12	0	360	143	232	50	-
L52	Pré-moldada	12	0	360	143	232	50	-
L53	Pré-moldada	12	0	360	143	232	50	-
L54	Pré-moldada	12	0	360	143	232	50	-
L55	Pré-moldada	12	0	360	143	232	50	-
L56	Pré-moldada	12	0	360	143	232	50	-
L57	Pré-moldada	12	0	360	143	232	50	-
L58	Pré-moldada	12	0	360	143	232	50	-
L59	Pré-moldada	12	0	360	143	232	50	-
L60	Pré-moldada	12	0	360	143	232	50	-
L61	Pré-moldada	12	0	360	143	232	50	-
L62	Pré-moldada	12	0	360	143	232	50	-
L63	Pré-moldada	12	0	360	143	232	50	-
L64	Pré-moldada	12	0	360	143	232	50	-
L65	Maciça	12	0	360	300	232	50	-
L66	Maciça	12	0	360	300	232	50	-

Pilares

Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	15x30	0	360
P2	15x30	0	360
P3	15x30	0	360
P4	15x30	0	360
P5	15x25	0	360
P6	15x30	0	360
P7	15x30	0	360
P8	15x30	0	360
P9	15x30	0	360
P10	15x30	0	360
P11	15x30	0	360
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P15	15x30	0	360
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P26	15x25	0	360
P27	15x30	0	360
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P30	15x30	0	360
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P89	15x30	0	360
P90	15x30	0	360
P91	15x30	0	360
P92	15x30	0	360
P93	15x30	0	360
P94	15x30	0	360
P95	15x30	0	360
P96	15x30	0	360
P97	15x25	0	360
P98	15x30	0	360
P99	15x30	0	360

Detalhe 1 (esc. 1:30)

Detalhe 2 (esc. 1:30)

Blocos de enchimento

Detalhe	Tipo	Nome	Dimensões(cm): hb	bx	by	Quantidade
1/2	EPS Unidirecional	88/30/125	8	30	125	1814

Características dos materiais

fck (kgf/cm²)	Eci (kgf/cm²)
300	295304

Dimensão máxima do agregado = 19 mm

Legenda das vigas e paredes

Viga

Legenda dos pilares

Pilar que morre

Pilar que passa

PROJETO ESTRUTURAL

AMAI
ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Resp. Técnico:
AMANDA CUNICO CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903
Dados: 2023.06.01 09:29:49 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978
Dados: 2023.08.07 09:23:24 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

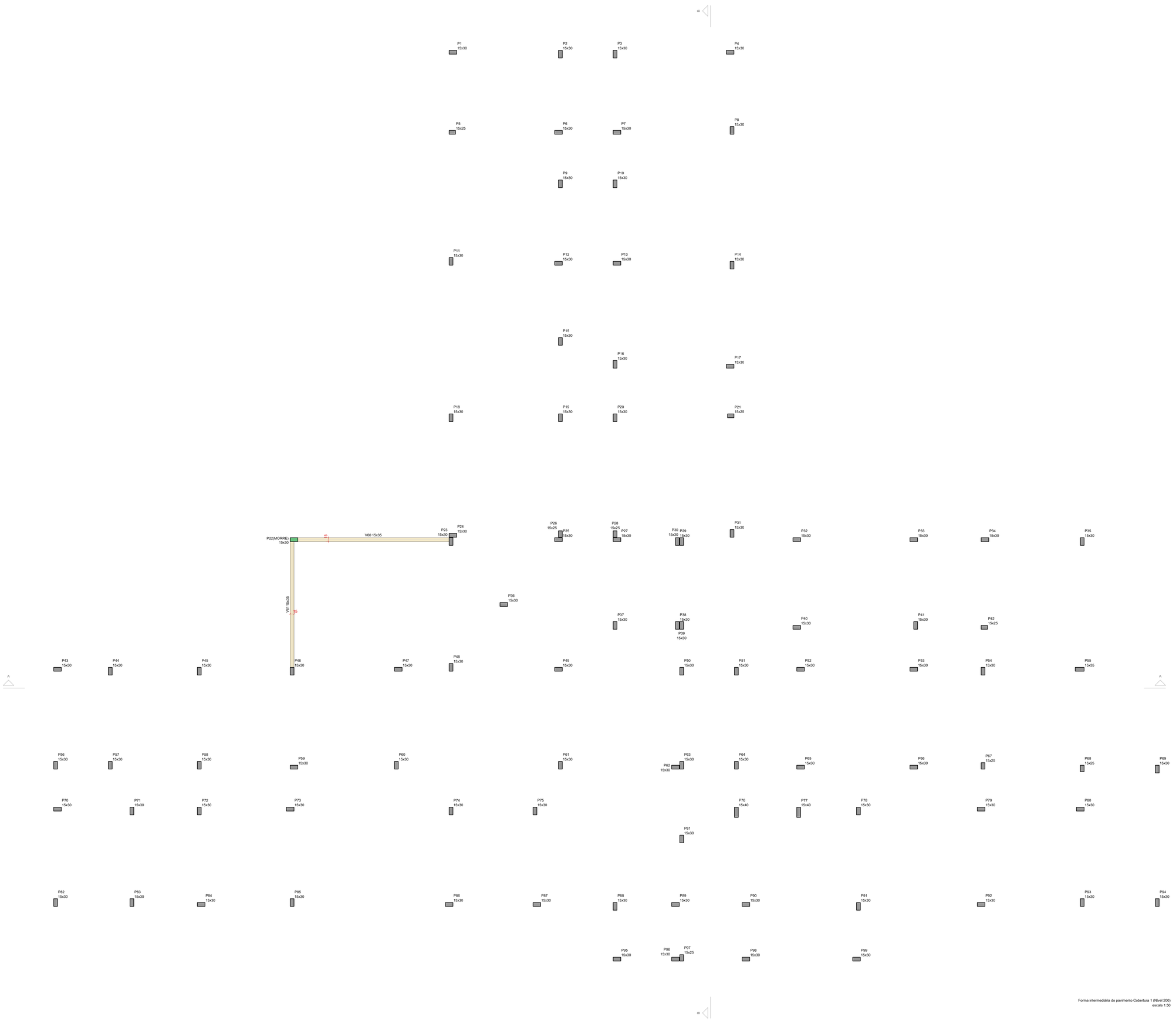
Escala: Indicada

Área: 760,20 m²

Desenho: Amanda

Especificação: Planta de forma do pavimento cobertura 1

Prancha: EST 09/21



Forma intermediária do pavimento Cobertura 1 (Nível 200)
escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V60	15x35	0	200
V61	15x35	0	200

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
300	268384

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	15x30	0	200
P2	15x30	0	200
P3	15x30	0	200
P4	15x30	0	200
P5	15x25	0	200
P6	15x30	0	200
P7	15x30	0	200
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P21	15x25	0	200
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P60	15x30	0	200
P61	15x30	0	200
P62	15x30	0	200
P63	15x30	0	200
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P89	15x30	0	200
P90	15x30	0	200
P91	15x30	0	200
P92	15x30	0	200
P93	15x30	0	200
P94	15x30	0	200
P95	15x30	0	200
P96	15x30	0	200
P97	15x25	0	200
P98	15x30	0	200
P99	15x30	0	200

Legenda dos pilares
Pilar que morre
Pilar que passa

Legenda das vigas e paredes
Viga

PROJETO ESTRUTURAL

ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Escala: Indicada

Área: 760,20 m²

Desenho: Amanda

Resp. Técnico:
AMANDA CUNICO CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903
Dados: 2023.06.01 09:29:39 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978
DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20577130000152, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978
Dados: 2023.06.07 09:13:48 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.026/0001-83

Especificação: Planta de forma intermediária do pavimento cobertura 1

Prancha: EST 10/21

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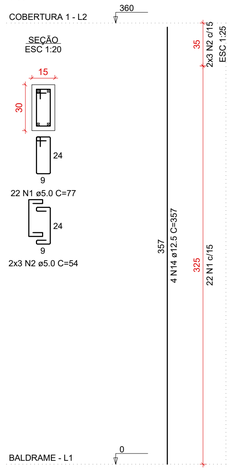

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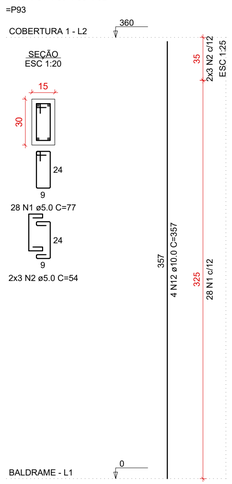

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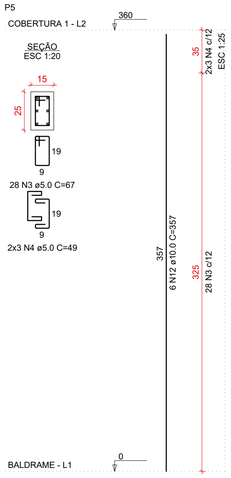

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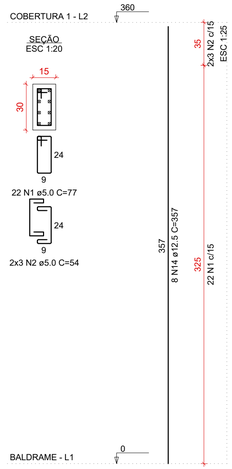

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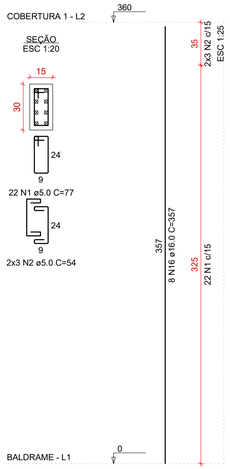

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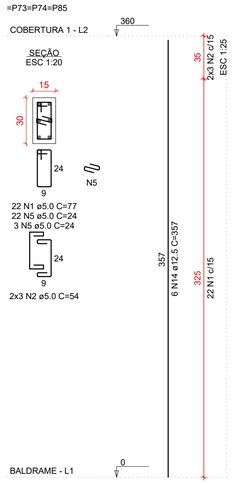

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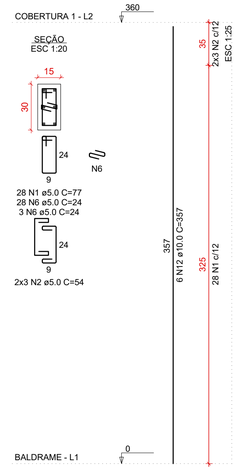

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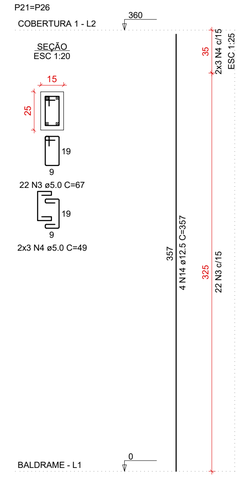


RELAÇÃO DO AÇO

7xP1	52xP2	P5	
6xP8	3xP10	9xP11	
3xP19	2xP21	P22	
P28	P31	3xP42	
P55	2xP76	2xP88	
P91	P95	P97	
P98	P99		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2267	77	174559
	2	5.0	528	54	28512
	3	5.0	200	67	13400
	4	5.0	48	49	2352
	5	5.0	275	24	6600
	6	5.0	186	24	4464
	7	5.0	25	24	600
	8	5.0	22	87	1914
	9	5.0	6	59	354
	10	5.0	56	97	5432
	11	5.0	12	64	768
CA50	12	10.0	256	357	91392
	13	10.0	10	393	3930
	14	12.5	144	357	51408
	15	12.5	30	402	12060
	16	16.0	38	357	13566
	17	16.0	8	197	1576

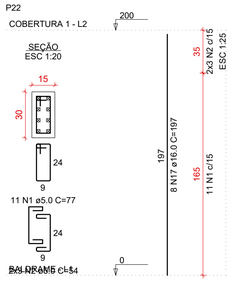
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	953.2	646.5
	12.5	634.7	672.6
	16.0	151.4	262.9
CA60	5.0	2389.6	405.1

PESO TOTAL (kg)	
CA50	1581.9
CA60	405.1

Volume de concreto (C-30) = 15.88 m³
Área de forma = 318.24 m²

P22



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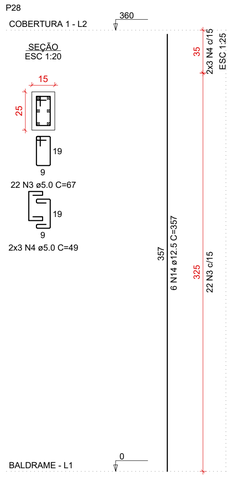

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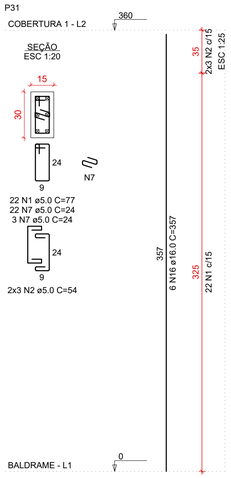

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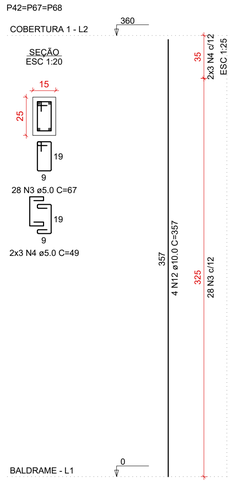

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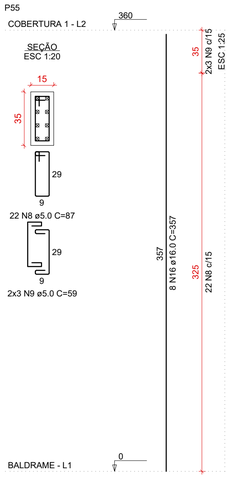

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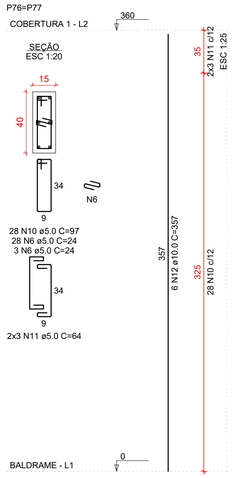

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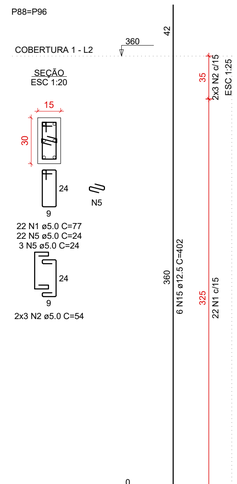

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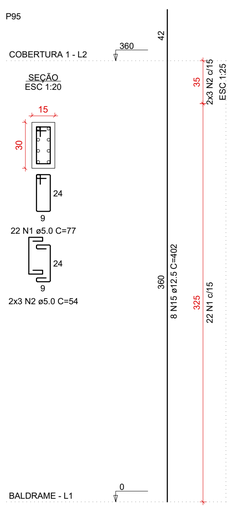

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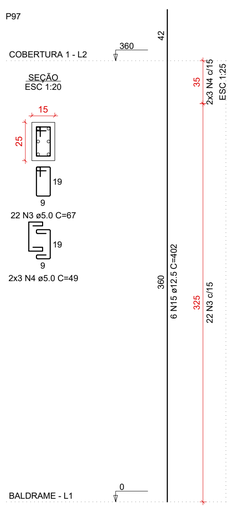

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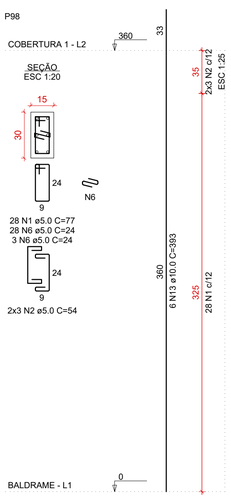

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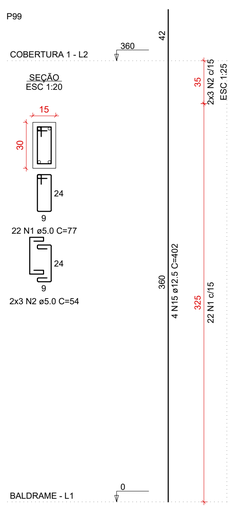

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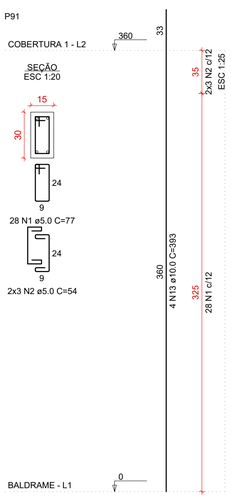


PROJETO ESTRUTURAL

AMAI
ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Escala: Indicada

Área: 760,20 m²

Desenho: Amanda

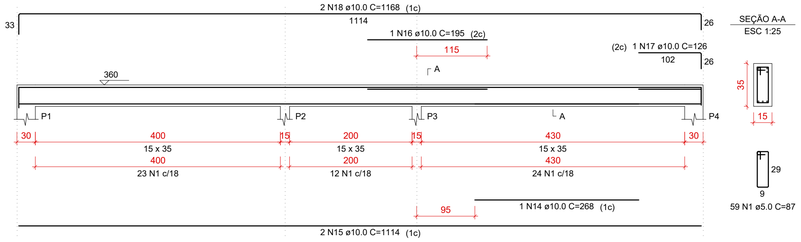
Resp. Técnico:
AMANDA CUNICO CARNEIRO:06804905903 Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903 Dados: 2023.06.01 09:31:22 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI PEROZA:72217570978 Assinado de forma digital por CLORI PEROZA:72217570978 DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20937130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978 Dados: 2023.08.07 09:31:15 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

Especificação: Pilares do pavimento cobertura 1

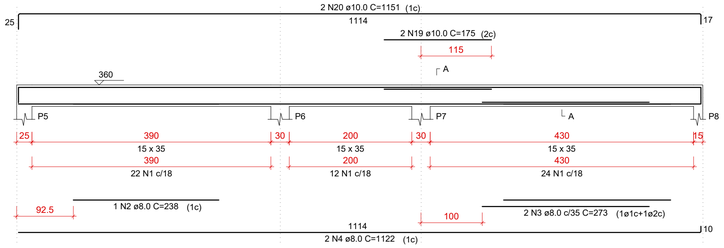
Prancha: EST 11/21

V1
ESC 1:50

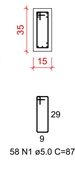


SEÇÃO A-A
ESC 1:25

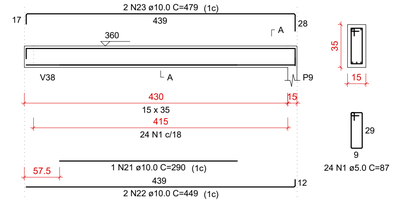
V2
ESC 1:50



SEÇÃO A-A
ESC 1:25



V3
ESC 1:50



SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

V1	V2	V3
V4	V5	V6
V7	V8	V9
V10	V11	V12
V13	V14	V15
V16		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	639	87	55593
CA50	2	8.0	1	238	238
	3	8.0	2	273	546
	4	8.0	4	1122	4488
	5	8.0	4	112	448
	6	8.0	4	156	624
	7	8.0	1	243	243
	8	8.0	2	290	580
	9	8.0	2	232	464
	10	8.0	1	121	121
	11	8.0	2	270	540
	12	8.0	2	270	540
	13	8.0	2	292	584
	14	10.0	1	268	268
	15	10.0	2	1114	2228
	16	10.0	1	195	195
	17	10.0	1	126	126
	18	10.0	2	1168	2336
	19	10.0	2	175	350
	20	10.0	2	1151	2302
	21	10.0	1	290	290
	22	10.0	2	449	898
	23	10.0	2	479	958
	24	10.0	2	320	640
	25	10.0	4	488	1952
	26	10.0	1	158	158
	27	10.0	2	506	1012
	28	10.0	1	205	205
	29	10.0	1	495	495
	30	10.0	2	1159	2318
	31	10.0	1	158	158
	32	10.0	2	476	952
	33	10.0	1	313	313
	34	10.0	2	469	938
	35	10.0	1	270	270
	36	10.0	2	1124	2248
	37	10.0	1	240	240
	38	10.0	2	1152	2304
	39	10.0	2	468	936
	40	10.0	2	345	690
	41	10.0	2	498	996
	42	10.0	2	937	1874
	43	10.0	2	1190	2380
	44	10.0	2	382	764
	45	10.0	1	185	185
	46	10.0	2	1159	2318
	47	12.5	1	288	288
	48	12.5	2	1138	2276
	49	12.5	4	463	1852
	50	12.5	2	522	1044
	51	12.5	1	255	255
	52	12.5	2	1197	2394
	53	12.5	2	1200	2400
	54	12.5	2	273	546

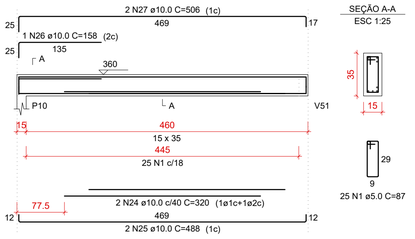
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	94.2	40.9
	10.0	343	232.6
	12.5	110.5	117.1
CA60	5.0	555.9	94.3

PESO TOTAL (kg)	
CA50	390.6
CA60	94.3

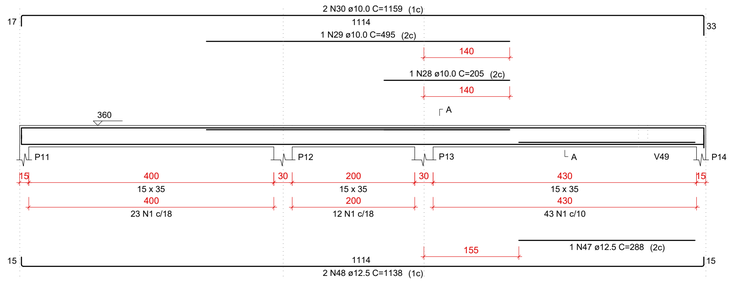
Volume de concreto (C-30) = 5.63 m³
Área de forma = 71.10 m²

V4
ESC 1:50

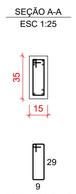


SEÇÃO A-A
ESC 1:25

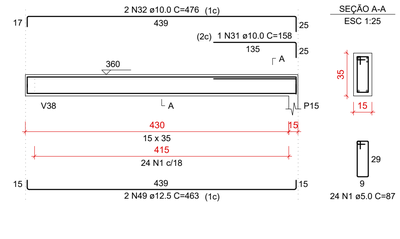
V5
ESC 1:50



SEÇÃO A-A
ESC 1:25

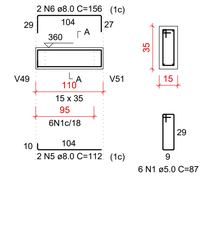


V6
ESC 1:50



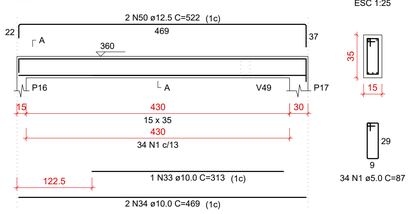
SEÇÃO A-A
ESC 1:25

V7
ESC 1:50



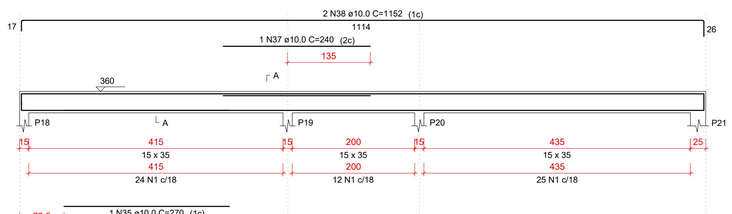
SEÇÃO A-A
ESC 1:25

V8
ESC 1:50

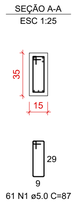


SEÇÃO A-A
ESC 1:25

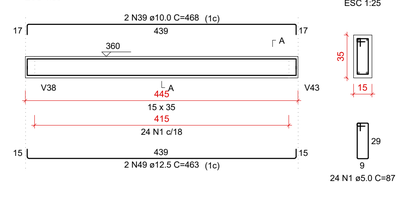
V9
ESC 1:50



SEÇÃO A-A
ESC 1:25

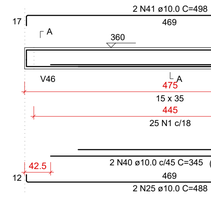


V10
ESC 1:50

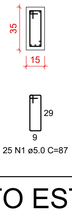


SEÇÃO A-A
ESC 1:25

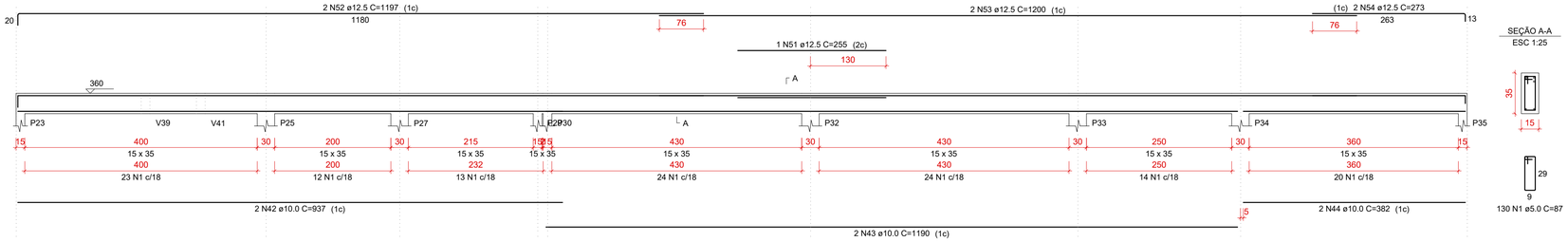
V11
ESC 1:50



SEÇÃO A-A
ESC 1:25

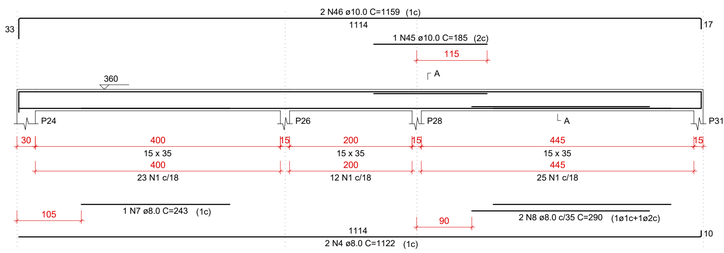


V12
ESC 1:50

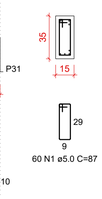


SEÇÃO A-A
ESC 1:25

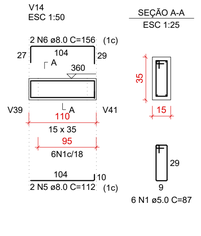
V13
ESC 1:50



SEÇÃO A-A
ESC 1:25

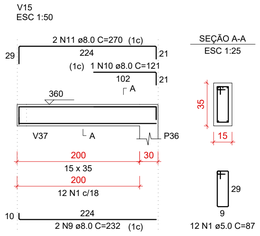


V14
ESC 1:50



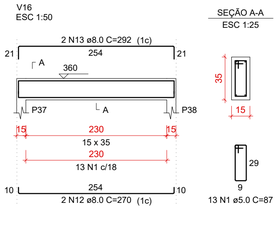
SEÇÃO A-A
ESC 1:25

V15
ESC 1:50



SEÇÃO A-A
ESC 1:25

V16
ESC 1:50



SEÇÃO A-A
ESC 1:25

PROJETO ESTRUTURAL

ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Resp. Técnico:
AMANDA CUNICO CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903 Dados: 2023.06.01 09:31:12 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978 DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20937130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978 Dados: 2023.08.07 09:25:16 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

Escala: Indicada

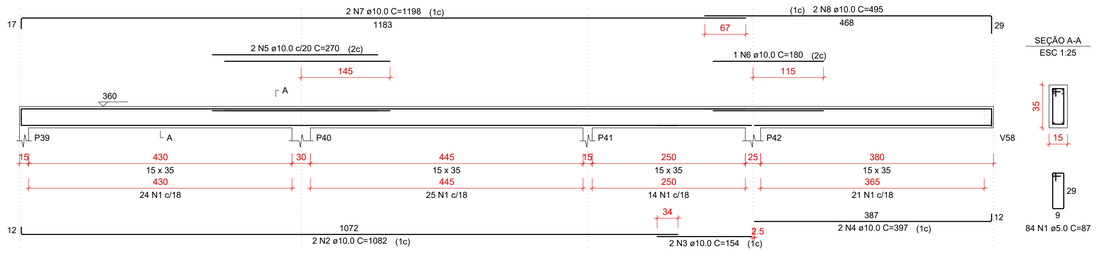
Área: 760,20 m²

Desenho: Amanda

Especificação: Vigas do pavimento cobertura 1

Prancha: EST 12/21

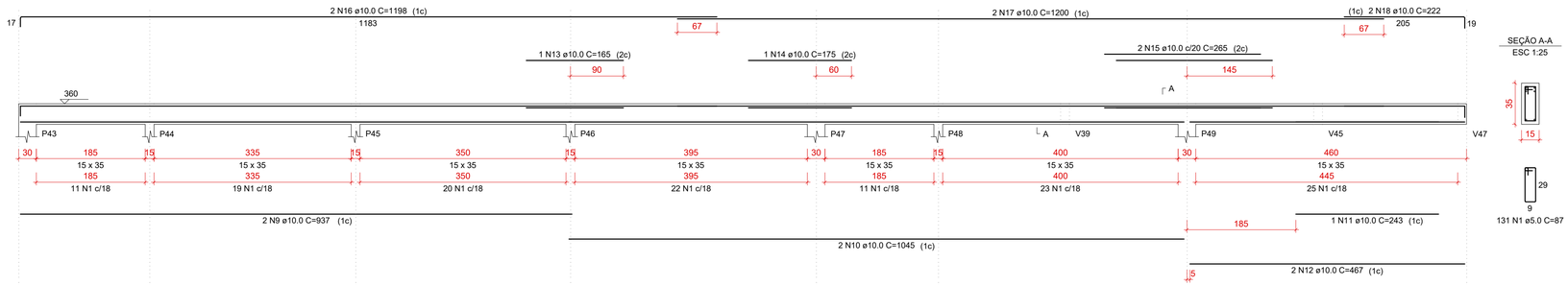
V17
ESC 1:50



SEÇÃO A-A
ESC 1:25

84 N1 ø5.0 C=87

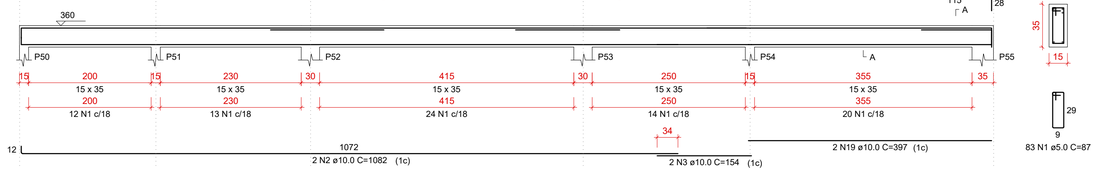
V18
ESC 1:50



SEÇÃO A-A
ESC 1:25

131 N1 ø5.0 C=87

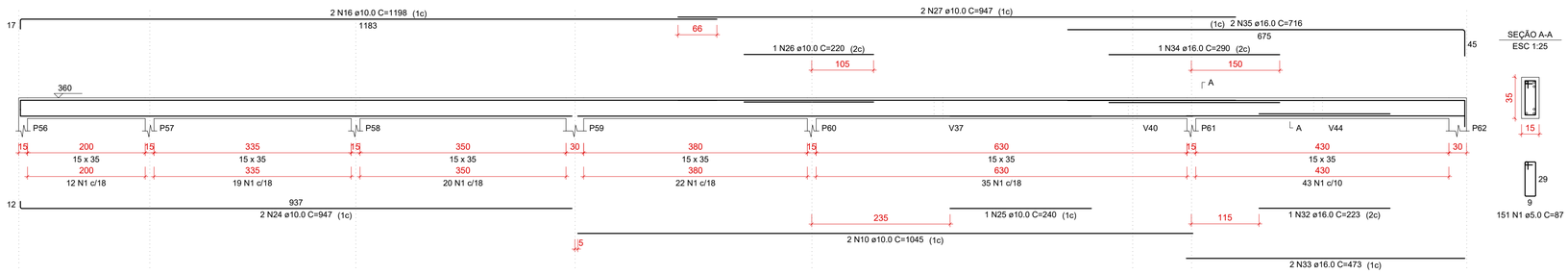
V19
ESC 1:50



SEÇÃO A-A
ESC 1:25

83 N1 ø5.0 C=87

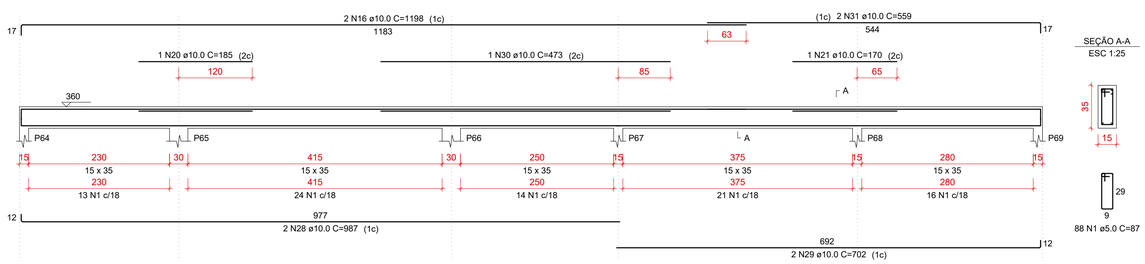
V20
ESC 1:50



SEÇÃO A-A
ESC 1:25

151 N1 ø5.0 C=87

V21
ESC 1:50



SEÇÃO A-A
ESC 1:25

88 N1 ø5.0 C=87

RELAÇÃO DO AÇO

V17 V18 V19
V20 V21

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	537	87	46719
CA50	2	10.0	4	1082	4328
	3	10.0	4	154	616
	4	10.0	2	397	794
	5	10.0	2	270	540
	6	10.0	1	180	180
	7	10.0	2	1198	2396
	8	10.0	2	495	990
	9	10.0	2	937	1874
	10	10.0	4	1045	4180
	11	10.0	1	243	243
	12	10.0	2	467	934
	13	10.0	1	165	165
	14	10.0	1	175	175
	15	10.0	2	265	530
	16	10.0	8	1198	9584
	17	10.0	2	1200	2400
	18	10.0	2	222	444
	19	10.0	2	397	794
	20	10.0	2	185	370
	21	10.0	2	170	340
	22	10.0	1	141	141
	23	10.0	2	491	982
	24	10.0	2	947	1894
	25	10.0	1	240	240
	26	10.0	1	220	220
	27	10.0	2	947	1894
	28	10.0	2	987	1974
	29	10.0	2	702	1404
	30	10.0	1	473	473
	31	10.0	2	559	1118
	32	16.0	1	223	223
	33	16.0	2	473	946
	34	16.0	1	290	290
	35	16.0	2	716	1432

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	422.2	286.3
	16.0	28.9	50.2
CA60	5.0	467.2	79.2

PESO TOTAL (kg)	
CA50	336.5
CA60	79.2

Volume de concreto (C-30) = 4.79 m³
Área de forma = 57.61 m²

PROJETO ESTRUTURAL

AMAI
ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Escala: Indicada

Área: 760,20 m²

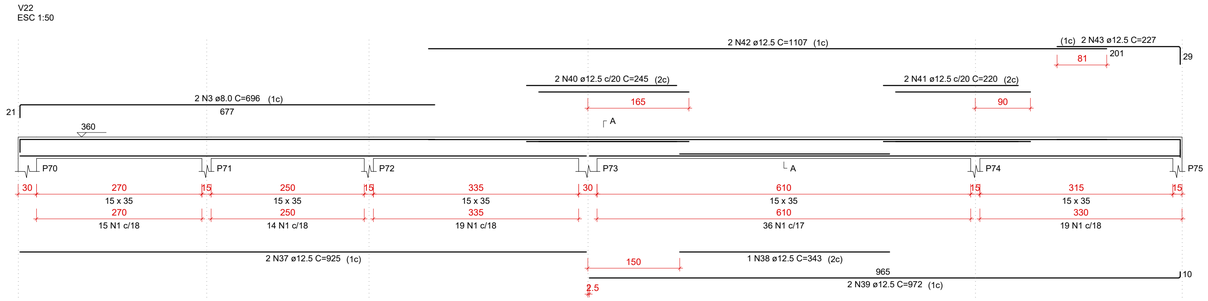
Desenho: Amanda

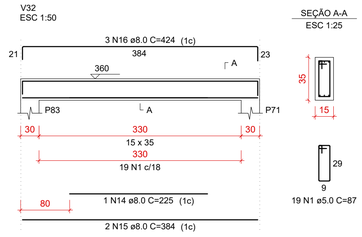
Resp. Técnico:
AMANDA CUNICO CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903
Dados: 2023.06.01 09:33:39 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978
DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20937130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978
Dados: 2023.08.07 09:28:43 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

Especificação: Vigas do pavimento cobertura 1

Prancha: EST 13/21





RELAÇÃO DO AÇO

V22 V23 V24
V25 V26 V27
V28 V29 V30
V31 V32 V33
V34 V35

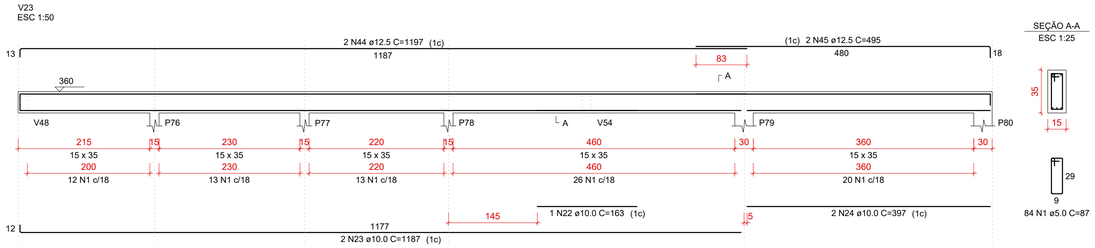
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	664	87	57768
CA50	2	6.3	2	71	142
	3	8.0	2	696	1392
	4	8.0	6	112	672
	5	8.0	2	153	306
	6	8.0	2	154	308
	7	8.0	4	254	1016
	8	8.0	1	250	250
	9	8.0	2	704	1408
	10	8.0	1	675	675
	11	8.0	2	971	1942
	12	8.0	1	230	230
	13	8.0	2	394	788
	14	8.0	1	225	225
	15	8.0	2	384	768
	16	8.0	3	424	1272
	17	8.0	2	150	300
	18	8.0	2	934	1868
	19	8.0	1	99	99
	20	8.0	1	100	100
	21	8.0	2	969	1938
	22	10.0	1	163	163
	23	10.0	4	1187	4748
	24	10.0	2	397	794
	25	10.0	2	937	1874
	26	10.0	2	348	696
	27	10.0	2	998	1996
	28	10.0	2	590	1180
	29	10.0	1	183	183
	30	10.0	2	702	1404
	31	10.0	1	522	522
	32	10.0	2	714	1428
	33	10.0	4	934	3736
	34	10.0	2	448	896
	35	10.0	1	385	385
	36	10.0	2	979	1958
	37	12.5	2	925	1850
	38	12.5	1	343	343
	39	12.5	2	972	1944
	40	12.5	3	245	735
	41	12.5	3	220	660
	42	12.5	2	1107	2214
	43	12.5	2	227	454
	44	12.5	6	1197	7182
	45	12.5	2	495	990
	46	12.5	4	250	1000
	47	12.5	2	1200	2400
	48	12.5	2	245	490
	49	12.5	2	782	1564

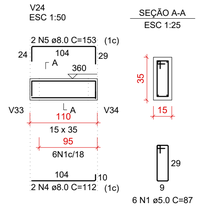
RESUMO DO AÇO

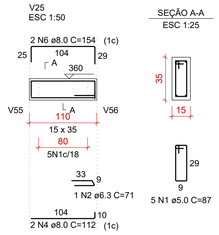
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	1.4	0.4
	8.0	155.6	67.5
	10.0	219.6	149
	12.5	218.3	231.3
CA60	5.0	577.7	97.9

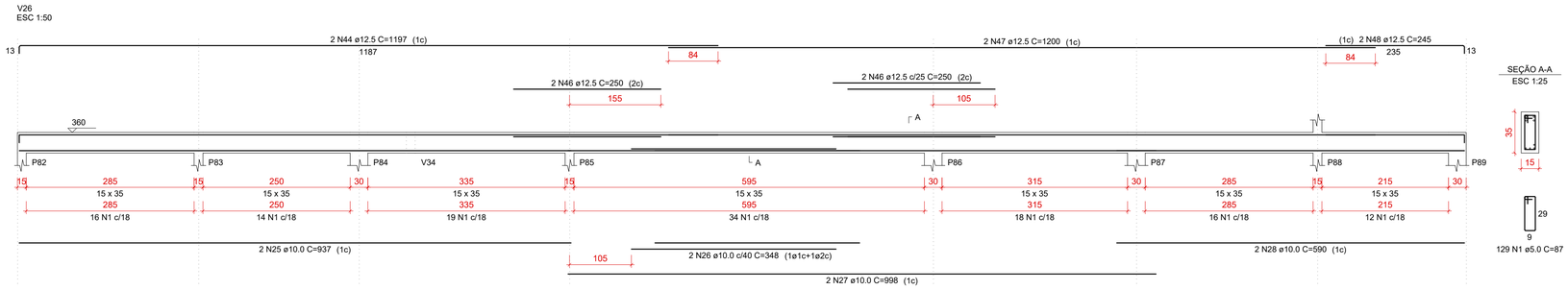
PESO TOTAL (kg)	
CA50	448.1
CA60	97.9

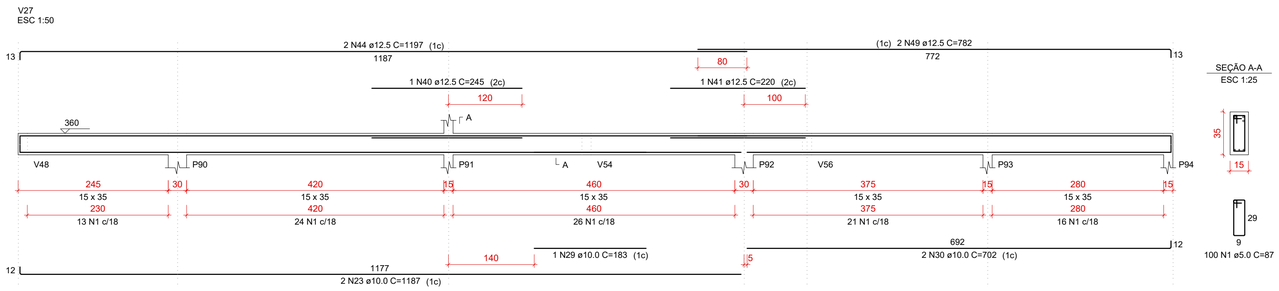
Volume de concreto (C-30) = 6.11 m³
Área de forma = 77.41 m²

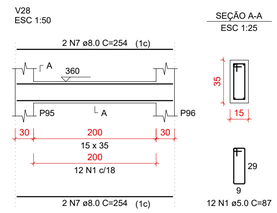


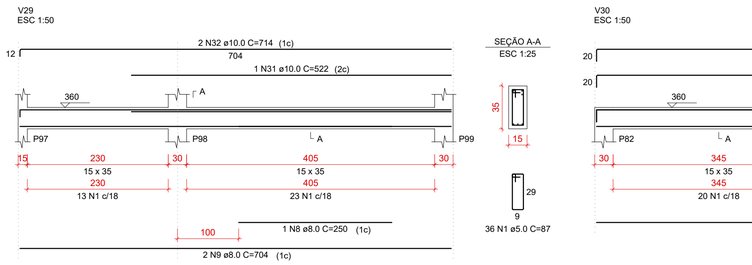


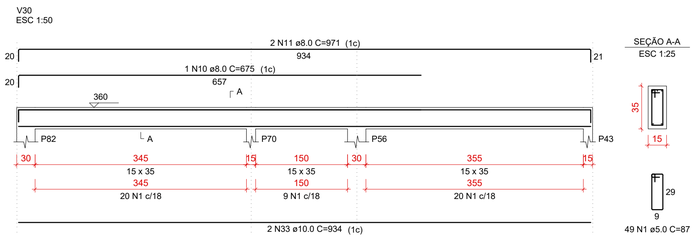


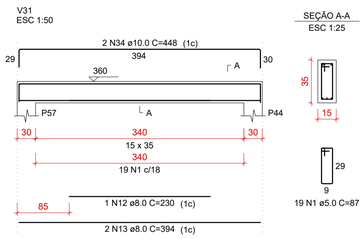


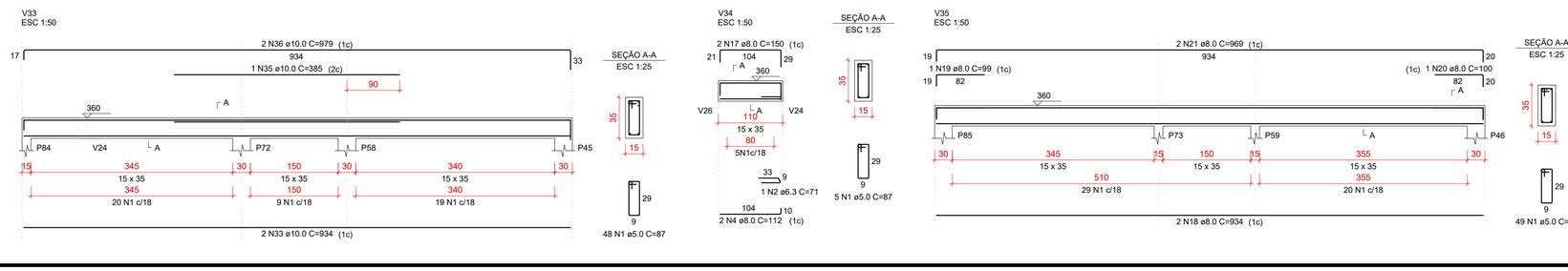












PROJETO ESTRUTURAL

ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Escala: Indicada

Área: 760,20 m²

Desenho: Amanda

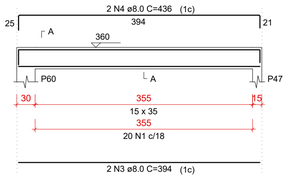
Prancha: EST 14/21

Resp. Técnico:
AMANDA CUNICO
CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903 Dados: 2023.06.01 09:31:40 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

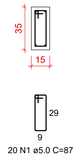
Município:
CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978 DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20937130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978 Dados: 2023.08.07 09:36:13 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

Especificação: Vigas do pavimento cobertura 1

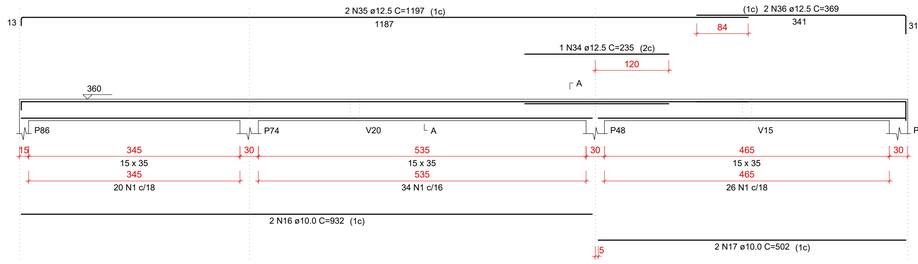
V36
ESC 1:50



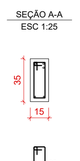
SEÇÃO A-A
ESC 1:25



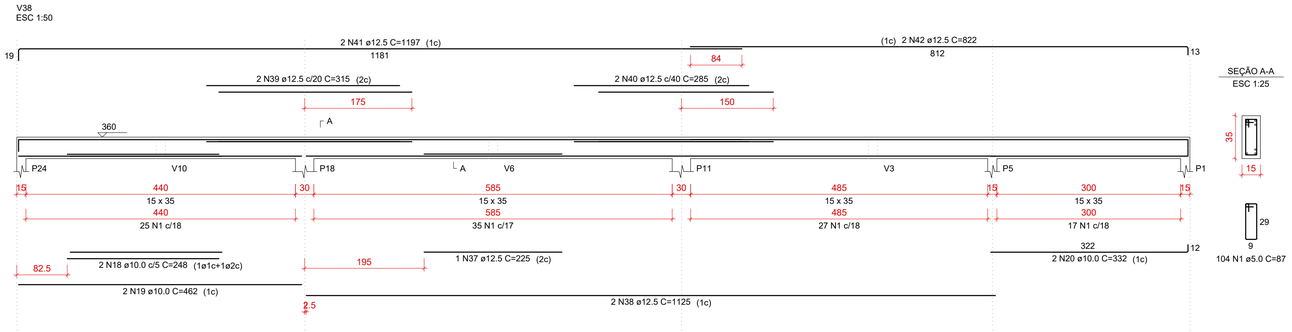
V37
ESC 1:50



SEÇÃO A-A
ESC 1:25



V38
ESC 1:50



SEÇÃO A-A
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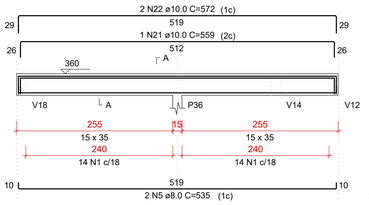
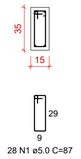
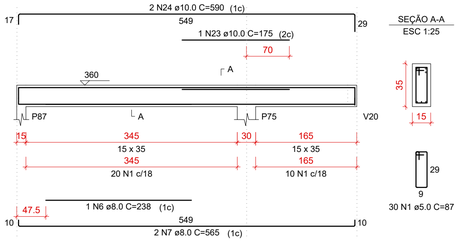
V39
ESC 1:50



SEÇÃO A-A
ESC 1:25

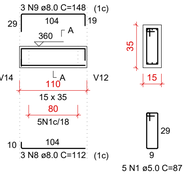


V40
ESC 1:50



SEÇÃO A-A
ESC 1:25

V41
ESC 1:50



SEÇÃO A-A
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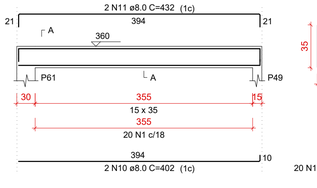
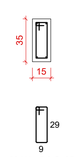
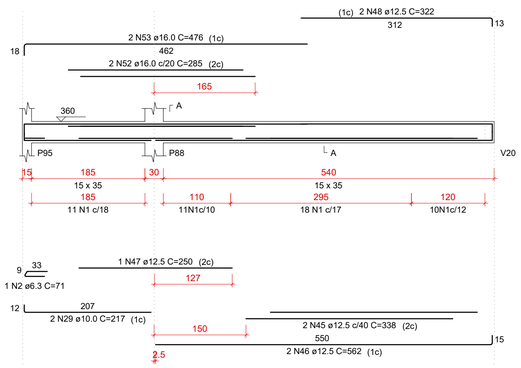
V42
ESC 1:50



SEÇÃO A-A
ESC 1:25



V44
ESC 1:50



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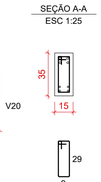

V43
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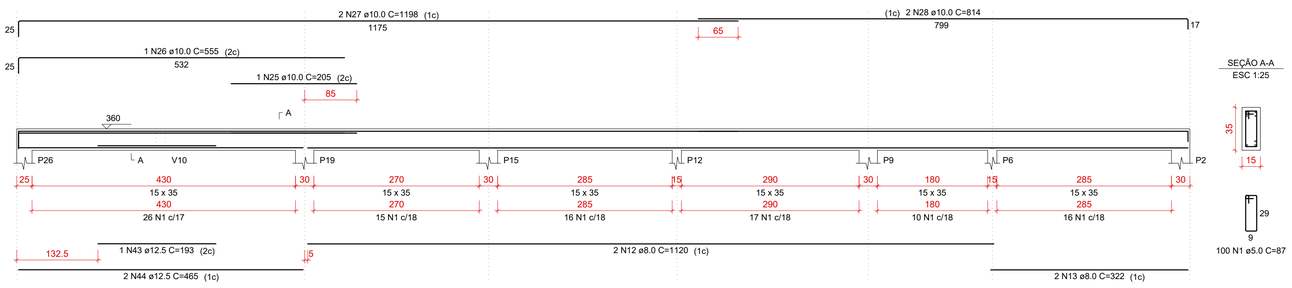
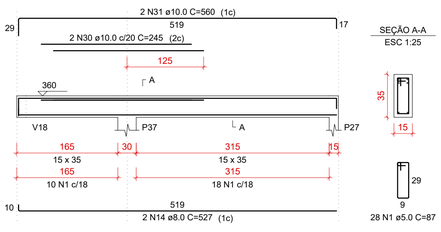


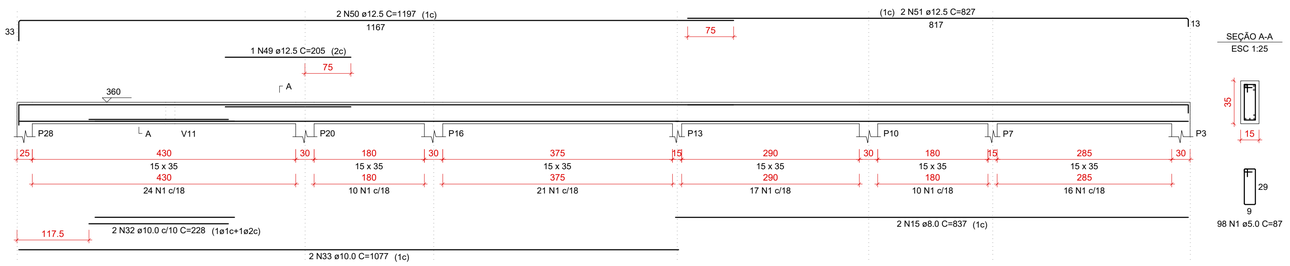
SEÇÃO A-A
ESC 1:25

V45
ESC 1:50



SEÇÃO A-A
ESC 1:25

V46
ESC 1:50



SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

V36 V37 V38
V39 V40 V41
V42 V43 V44
V45 V46

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	563	87	48981
CA50	2	6.3	1	71	71
	3	8.0	2	394	788
	4	8.0	2	436	872
	5	8.0	2	535	1070
	6	8.0	1	238	238
	7	8.0	2	565	1130
	8	8.0	3	112	336
	9	8.0	3	148	444
	10	8.0	2	402	804
	11	8.0	2	432	864
	12	8.0	2	1120	2240
	13	8.0	2	322	644
	14	8.0	2	527	1054
	15	8.0	2	837	1674
	16	10.0	2	932	1864
	17	10.0	2	502	1004
	18	10.0	2	248	496
	19	10.0	2	462	924
	20	10.0	2	332	664
	21	10.0	1	559	559
	22	10.0	2	572	1144
	23	10.0	1	175	175
	24	10.0	2	590	1180
	25	10.0	1	205	205
	26	10.0	1	555	555
	27	10.0	2	1198	2396
	28	10.0	2	814	1628
	29	10.0	2	217	434
	30	10.0	2	245	490
	31	10.0	2	560	1120
	32	10.0	2	228	456
	33	10.0	2	1077	2154
	34	12.5	1	235	235
	35	12.5	2	1197	2394
	36	12.5	2	369	738
	37	12.5	1	225	225
	38	12.5	2	1125	2250
	39	12.5	2	315	630
	40	12.5	2	285	570
	41	12.5	2	1197	2394
	42	12.5	2	822	1644
	43	12.5	1	193	193
	44	12.5	2	465	930
	45	12.5	2	338	676
	46	12.5	2	562	1124
	47	12.5	1	250	250
	48	12.5	2	322	644
	49	12.5	1	205	205
	50	12.5	2	1197	2394
	51	12.5	2	827	1654
	52	16.0	2	285	570
	53	16.0	2	476	952

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	0.7	0.2
	8.0	121.6	52.8
	10.0	174.5	118.3
	12.5	191.5	202.9
	16.0	15.2	26.4
CA60	5.0	489.8	83

PESO TOTAL (kg)	
CA50	400.6
CA60	83

Volume de concreto (C-30) = 5.05 m³
Área de forma = 61.80 m²

PROJETO ESTRUTURAL

AMAI
ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Resp. Técnico:
AMANDA CUNICO
CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903 Dados: 2023.06.01 09:32:22 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978 DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20937130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978 Dados: 2023.08.07 09:28:05 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

Escala: Indicada

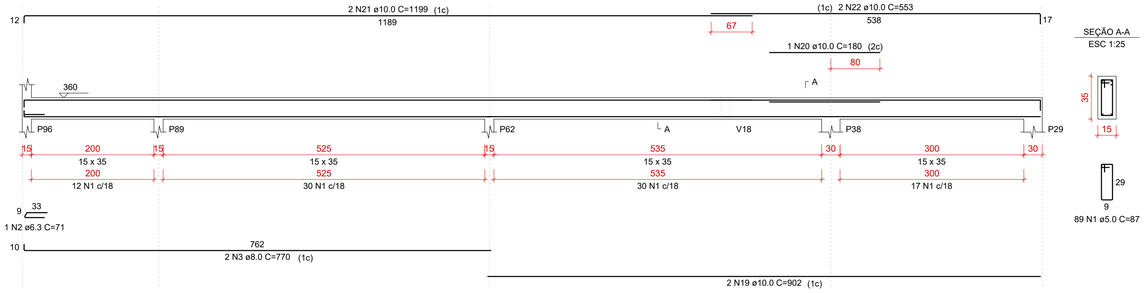
Área: 760,20 m²

Desenho: Amanda

Especificação: Vigas do pavimento cobertura 1

Prancha: EST 15/21

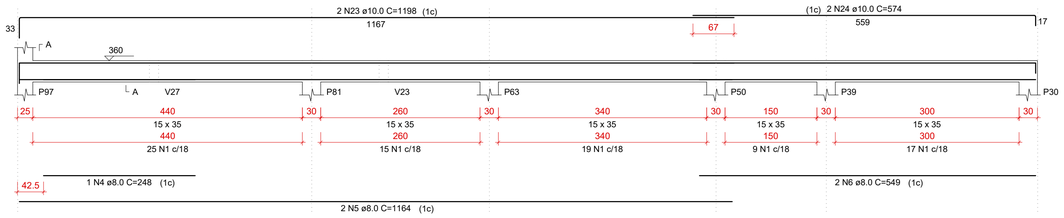
V47
ESC 1:50



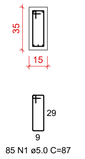
SEÇÃO A-A
ESC 1:25

89 N1 ø5.0 C=87

V48
ESC 1:50

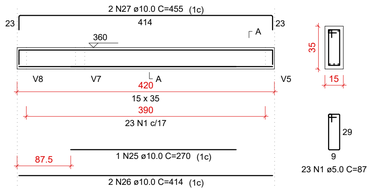


SEÇÃO A-A
ESC 1:25



85 N1 ø5.0 C=87

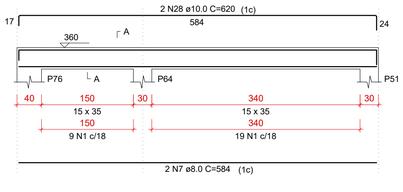
V49
ESC 1:50



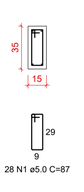
SEÇÃO A-A
ESC 1:25

23 N1 ø5.0 C=87

V50
ESC 1:50

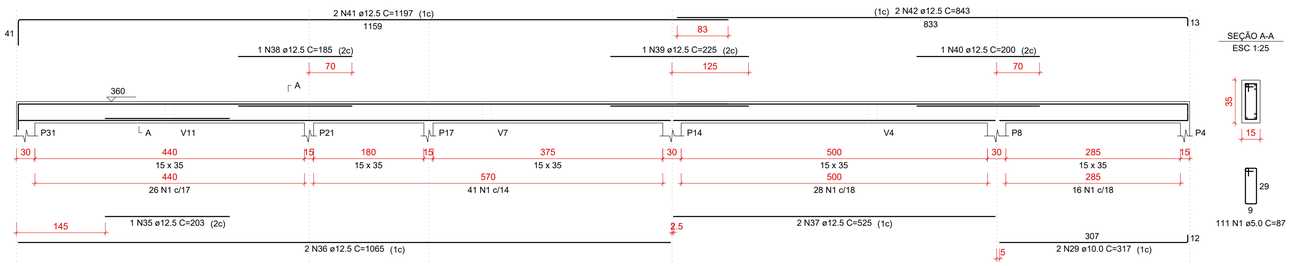


SEÇÃO A-A
ESC 1:25



28 N1 ø5.0 C=87

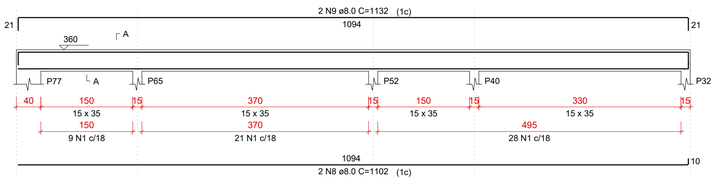
V51
ESC 1:50



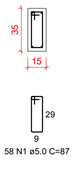
SEÇÃO A-A
ESC 1:25

111 N1 ø5.0 C=87

V52
ESC 1:50

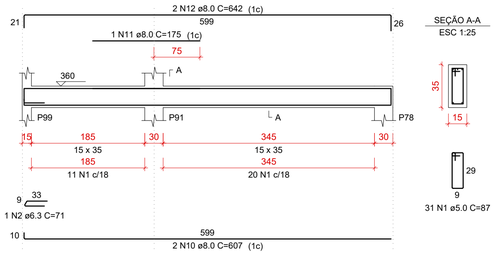


SEÇÃO A-A
ESC 1:25



58 N1 ø5.0 C=87

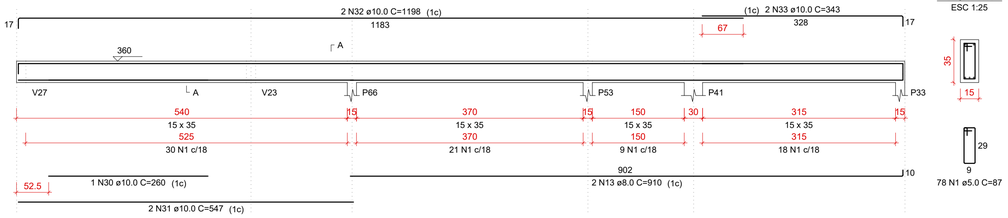
V53
ESC 1:50



SEÇÃO A-A
ESC 1:25

31 N1 ø5.0 C=87

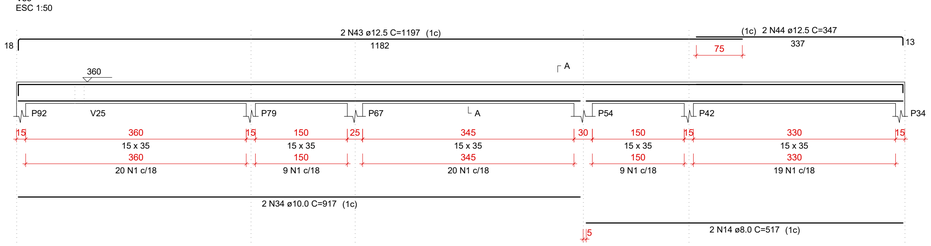
V54
ESC 1:50



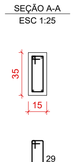
SEÇÃO A-A
ESC 1:25

78 N1 ø5.0 C=87

V55
ESC 1:50

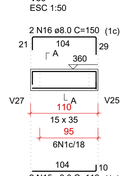


SEÇÃO A-A
ESC 1:25

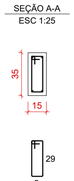


77 N1 ø5.0 C=87

V56
ESC 1:50

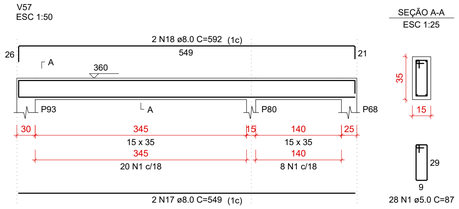


SEÇÃO A-A
ESC 1:25



6 N1 ø5.0 C=87

V57
ESC 1:50



SEÇÃO A-A
ESC 1:25

28 N1 ø5.0 C=87

RELAÇÃO DO AÇO

V47	V48	V49
V50	V51	V52
V53	V54	V55
V56	V57	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	614	87	53418
CA50	2	6.3	2	71	142
	3	8.0	2	770	1540
	4	8.0	1	248	248
	5	8.0	2	1164	2328
	6	8.0	2	549	1098
	7	8.0	2	584	1168
	8	8.0	2	1102	2204
	9	8.0	2	1132	2264
	10	8.0	2	607	1214
	11	8.0	1	175	175
	12	8.0	2	642	1284
	13	8.0	2	910	1820
	14	8.0	2	517	1034
	15	8.0	2	112	224
	16	8.0	2	150	300
	17	8.0	2	549	1098
	18	8.0	2	592	1184
	19	10.0	2	902	1804
	20	10.0	1	180	180
	21	10.0	2	1199	2398
	22	10.0	2	553	1106
	23	10.0	2	1198	2396
	24	10.0	2	574	1148
	25	10.0	1	270	270
	26	10.0	2	414	828
	27	10.0	2	455	910
	28	10.0	2	620	1240
	29	10.0	2	317	634
	30	10.0	1	260	260
	31	10.0	2	547	1094
	32	10.0	2	1198	2396
	33	10.0	2	343	686
	34	10.0	2	917	1834
	35	12.5	1	203	203
	36	12.5	2	1065	2130
	37	12.5	2	525	1050
	38	12.5	1	185	185
	39	12.5	1	225	225
	40	12.5	1	200	200
	41	12.5	2	1197	2394
	42	12.5	2	843	1686
	43	12.5	2	1197	2394
	44	12.5	2	347	694

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	1.4	0.4
	8.0	191.8	83.3
	10.0	191.8	130.1
	12.5	111.6	118.3
CA60	5.0	534.2	90.6

PESO TOTAL (kg)	
CA50	332
CA60	90.6

Volume de concreto (C-30) = 5.52 m³
Área de forma = 70.62 m²

PROJETO ESTRUTURAL

ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Escala: Indicada

Área: 760,20 m²

Desenho: Amanda

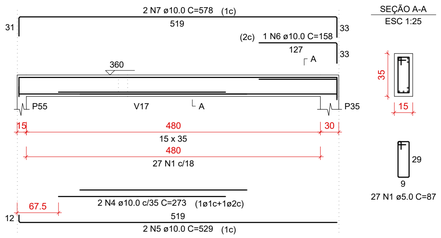
Prancha: EST 16/21

Resp. Técnico:
AMANDA CUNICO CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903 Dados: 2023.06.01 09:30:51 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978 DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20971300000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978 Dados: 2023.08.07 09:35:30 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

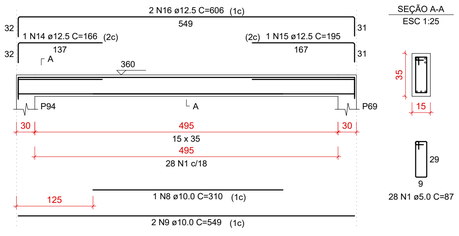
Especificação: Vigas do pavimento cobertura 1

V58
ESC 1:50



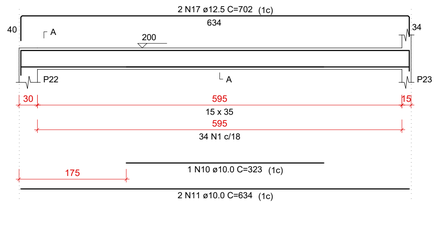
SEÇÃO A-A
ESC 1:25

V59
ESC 1:50

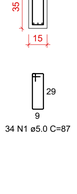


SEÇÃO A-A
ESC 1:25

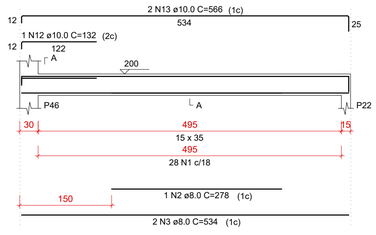
V60
ESC 1:50



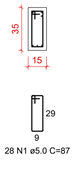
SEÇÃO A-A
ESC 1:25



V61
ESC 1:50



SEÇÃO A-A
ESC 1:25



RELAÇÃO DO AÇO

V58 V59 V60 V61

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	117	87	10179
CA50	2	8.0	1	278	278
	3	8.0	2	534	1068
	4	10.0	2	273	546
	5	10.0	2	529	1058
	6	10.0	1	158	158
	7	10.0	2	578	1156
	8	10.0	1	310	310
	9	10.0	2	549	1098
	10	10.0	1	323	323
	11	10.0	2	634	1268
	12	10.0	1	132	132
	13	10.0	2	566	1132
	14	12.5	1	166	166
	15	12.5	1	195	195
	16	12.5	2	606	1212
	17	12.5	2	702	1404

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	13.5	5.8
	10.0	71.8	48.7
	12.5	29.8	31.5
CA60	5.0	101.8	17.3

PESO TOTAL (kg)	
CA50	86.1
CA60	17.3

Volume de concreto (C-30) = 1.08 m³
Área de forma = 16.38 m²

PROJETO ESTRUTURAL

AMAI
ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Escala: Indicada

Área: 760,20 m²

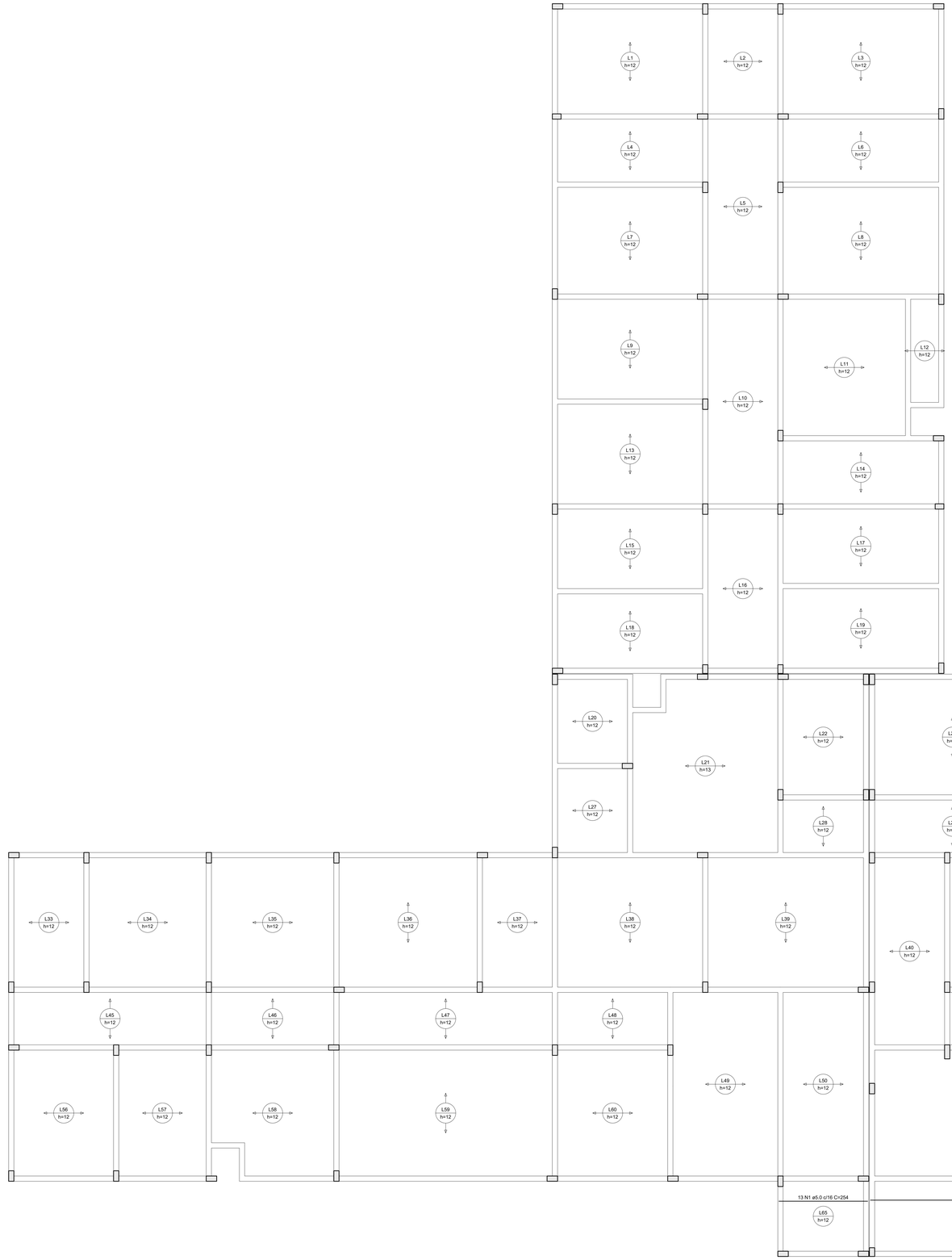
Desenho: Amanda

Resp. Técnico:
AMANDA CUNICO CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903 Dados: 2023.06.01 09:30:41 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978 DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20937130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978 Dados: 2023.08.07 09:34:42 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

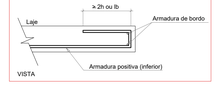
Especificação: Vigas do pavimento cobertura 1

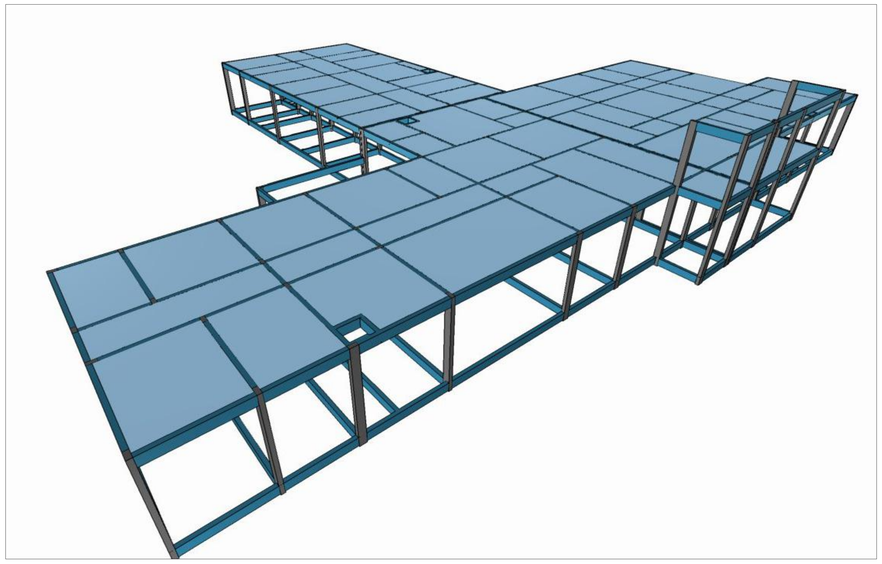
Prancha: EST 17/21



Armação positiva das lajes do pavimento Cobertura 1 (Eixo X)
escala 1:50

DETALHE DA ARMADURA
DE BORDO LIVRE DA LAJE





PROJETO ESTRUTURAL

AMAI
ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Resp. Técnico:
AMANDA CUNICO
CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903
Dados: 2023.06.01 09:52:13 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI
PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978
DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20937130000162, ou=PresencialL ou=Certificado PF A3, cn=CLORI PEROZA:72217570978
Dados: 2023.08.07 09:53:17 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.029/0001-83

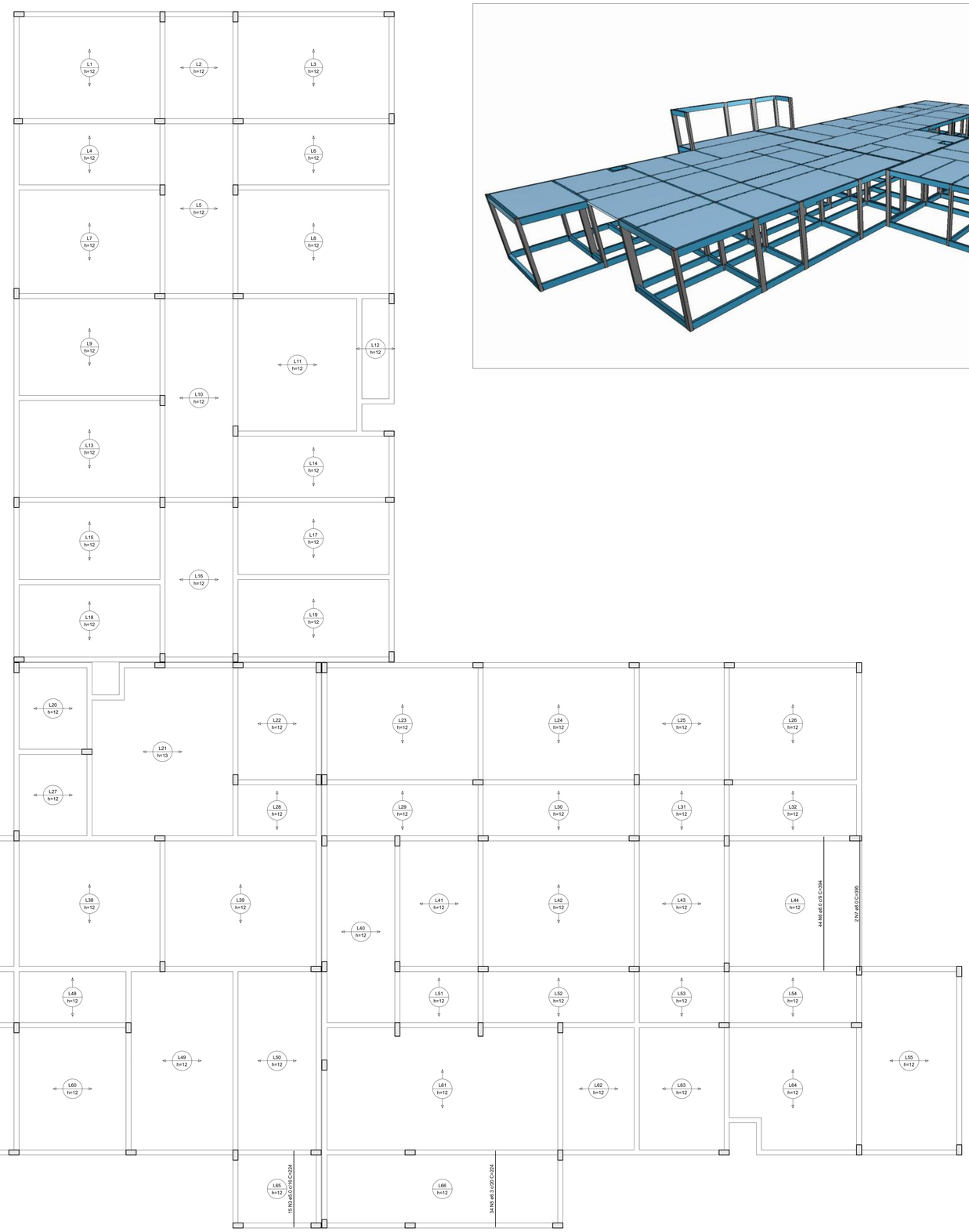
Escala: Indicada

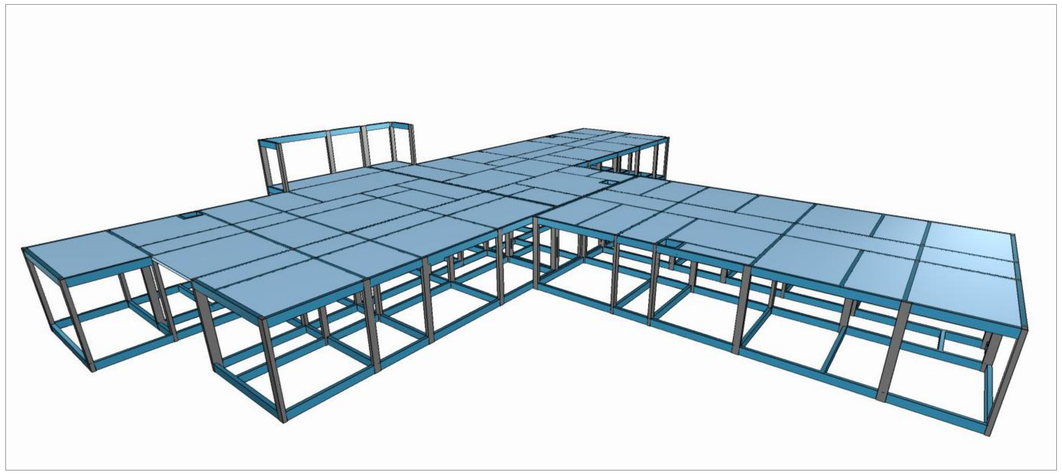
Área: 760,20 m²

Desenho: Amanda

Especificação: Lajes de cobertura

Prancha: EST 18/21





Armação positiva das lajes do pavimento Cobertura 1 (Eixo Y)
escala 1:50

PROJETO ESTRUTURAL

AMAI
ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

AMANDA CUNICO CARNEIRO:06804905903 — Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903 Dados: 2023.06.01 09:32:58 -03'00'

Resp. Técnico:
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

CLORI PEROZA:72217570978 — Assinado de forma digital por CLORI PEROZA:72217570978 CN=CLORI PEROZA:72217570978, ou=AC SOLUTI Multipla v5, ou=20037730000162, ou=Presencial, ou=Certificado PF A3, ou=CLORI PEROZA:72217570978 Dados: 2023.06.07 09:32:32 -03'00'

Município:
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

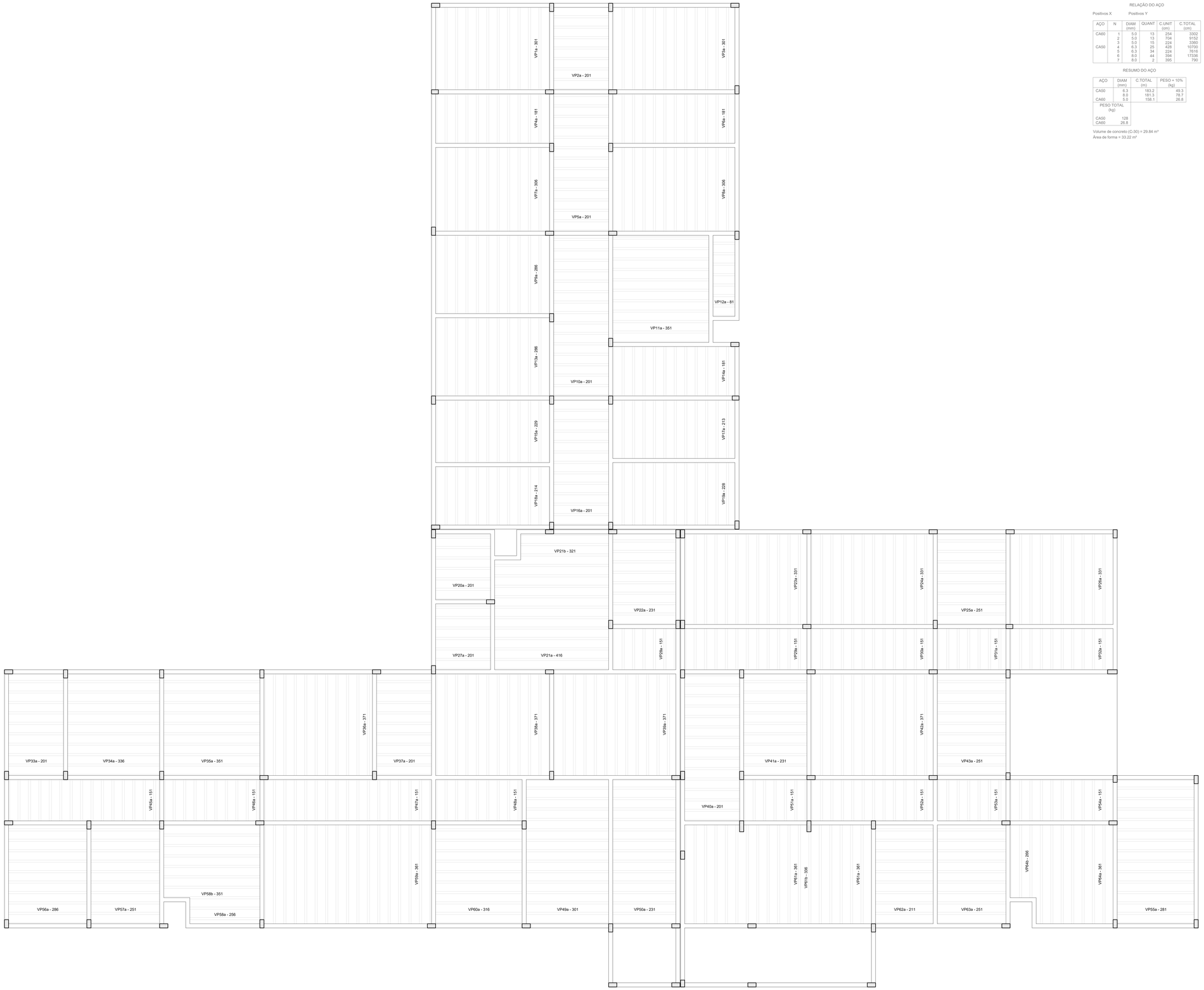
Escala: Indicada

Área: 760,20 m²

Desenho: Amanda

Especificação: Lajes de cobertura

Prancha: EST 19/21



Planta de vigotas pré-moldadas
escala 1:50

RELAÇÃO DO AÇO

Positivos X Positivos Y

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	13	254	3302
	2	5.0	13	704	9152
	3	5.0	15	224	3360
CA50	4	6.3	25	428	10700
	5	6.3	34	224	7616
	6	8.0	44	394	17336
	7	8.0	2	395	790

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	183.2	49.3
	8.0	181.3	78.7
CA60	5.0	158.1	26.8

PESO TOTAL (kg)	
CA50	128
CA60	26.8

Volume de concreto (C-30) = 29.84 m³
Área de forma = 33.22 m²

PROJETO ESTRUTURAL

AMAI
ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Escala: Indicada

Área: 760,20 m²

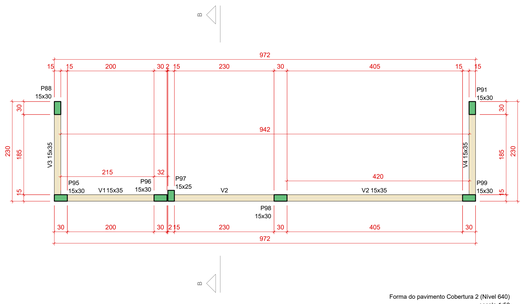
Desenho: Amanda

Resp. Técnico:
AMANDA CUNICO CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903
Dados: 2023.06.01 09:32:48 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978
Dados: 2023.08.07 09:31:57 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

Especificação: Lajes de cobertura

Prancha: EST 20/21



Forma do pavimento Cobertura 2 (Nível 640)
escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	15x35	0	640
V2	15x35	0	640
V3	15x35	0	640
V4	15x35	0	640

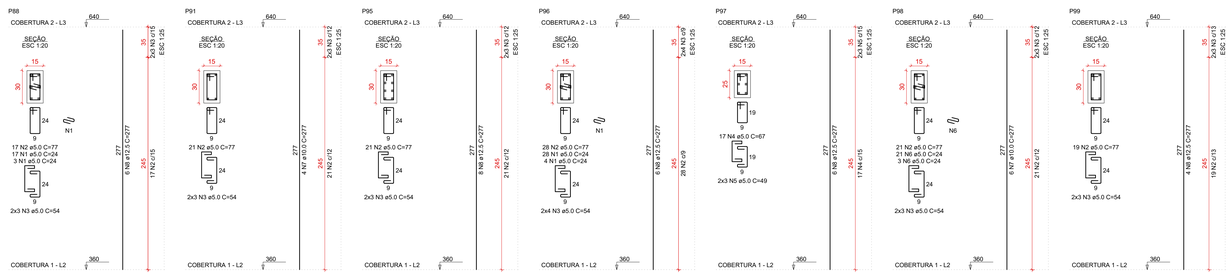
Características dos materiais	
fck (kgf/cm²)	Eca (kgf/cm²)
300	268384

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P88	15x30	0	640
P91	15x30	0	640
P95	15x30	0	640
P96	15x30	0	640
P97	15x25	0	640
P98	15x30	0	640
P99	15x30	0	640

Legenda dos pilares
Pilar que morre

Legenda das vigas e paredes
Viga



RELAÇÃO DO AÇO

P88 P91 P95
P96 P97 P98
P99

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	52	24	1248
	2	5.0	127	77	9779
	3	5.0	38	54	2052
	4	5.0	17	67	1139
	5	5.0	6	49	294
	6	5.0	24	24	576
CA50	7	10.0	10	277	2770
	8	12.5	30	277	8310

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	27.7	18.8
	12.5	83.1	88.1
CA60	5.0	150.9	25.6
PESO TOTAL (kg)			
CA50	106.8		
CA60	25.6		

Volume de concreto (C-30) = 0.86 m³
Área de forma = 17.36 m²

RELAÇÃO DO AÇO

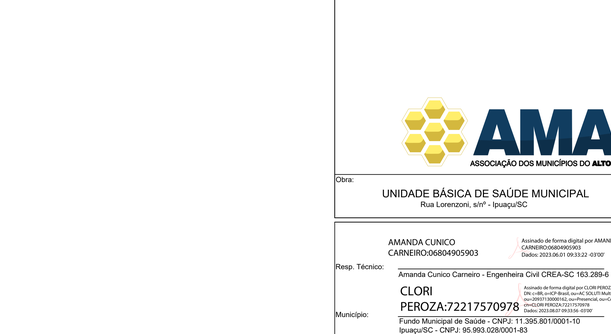
V1 V2 V3
V4

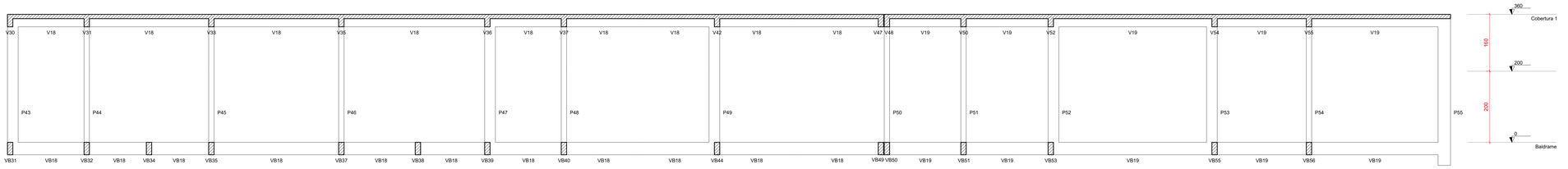
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	70	87	6090
CA50	2	6.3	2	71	142
	3	8.0	2	254	508
	4	8.0	2	298	596
	5	8.0	2	704	1408
	6	8.0	2	742	1484
	7	8.0	4	232	928
	8	8.0	1	114	114
	9	8.0	2	260	520
	10	8.0	2	262	524

RESUMO DO AÇO

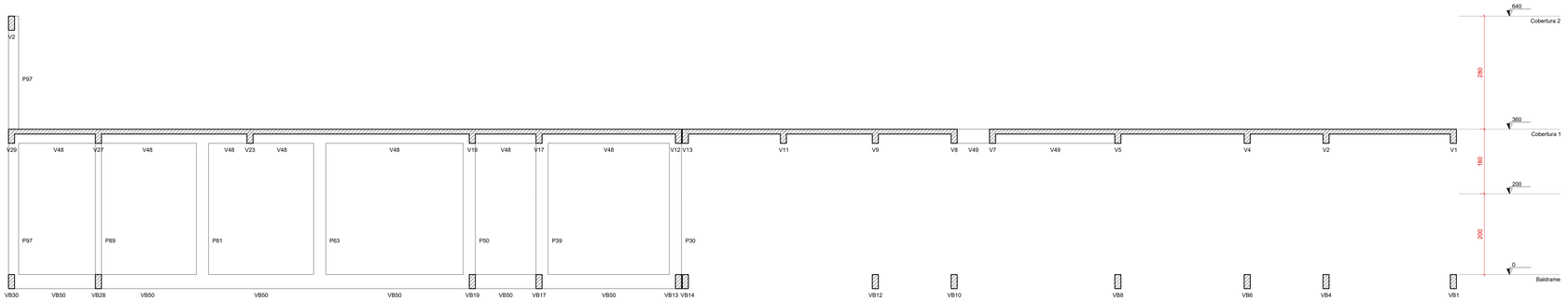
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	1.4	0.4
	8.0	60.8	26.4
CA60	5.0	60.9	10.3
PESO TOTAL (kg)			
CA50	26.8		
CA60	10.3		

Volume de concreto (C-30) = 0.63 m³
Área de forma = 10.24 m²





Corte A-A
escala 1:50



Corte B-B
escala 1:50

PROJETO ESTRUTURAL

ASSOCIAÇÃO DOS MUNICÍPIOS DO ALTO IRANI

Obra:
UNIDADE BÁSICA DE SAÚDE MUNICIPAL
Rua Lorenzoni, s/nº - Ipuaçu/SC

Data: 05/2023

Escala: Indicada

Área: 760,20 m²

Desenho: Amanda

Resp. Técnico:
AMANDA CUNICO
CARNEIRO:06804905903
Assinado de forma digital por AMANDA CUNICO CARNEIRO:06804905903
Dados: 2023.06.01 09:33:22 -03'00'
Amanda Cunico Carneiro - Engenheira Civil CREA-SC 163.289-6

Município:
CLORI
PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978
DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20507130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978
Dados: 2023.08.07 09:33:56 -03'00'
Fundo Municipal de Saúde - CNPJ: 11.395.801/0001-10
Ipuaçu/SC - CNPJ: 95.993.028/0001-83

Especificação: Planta de forma do pavimento cobertura 1
Pilares da cobertura 1
Vigas da cobertura 1
Corte A-A
Corte B-B

Prancha: EST 21/21