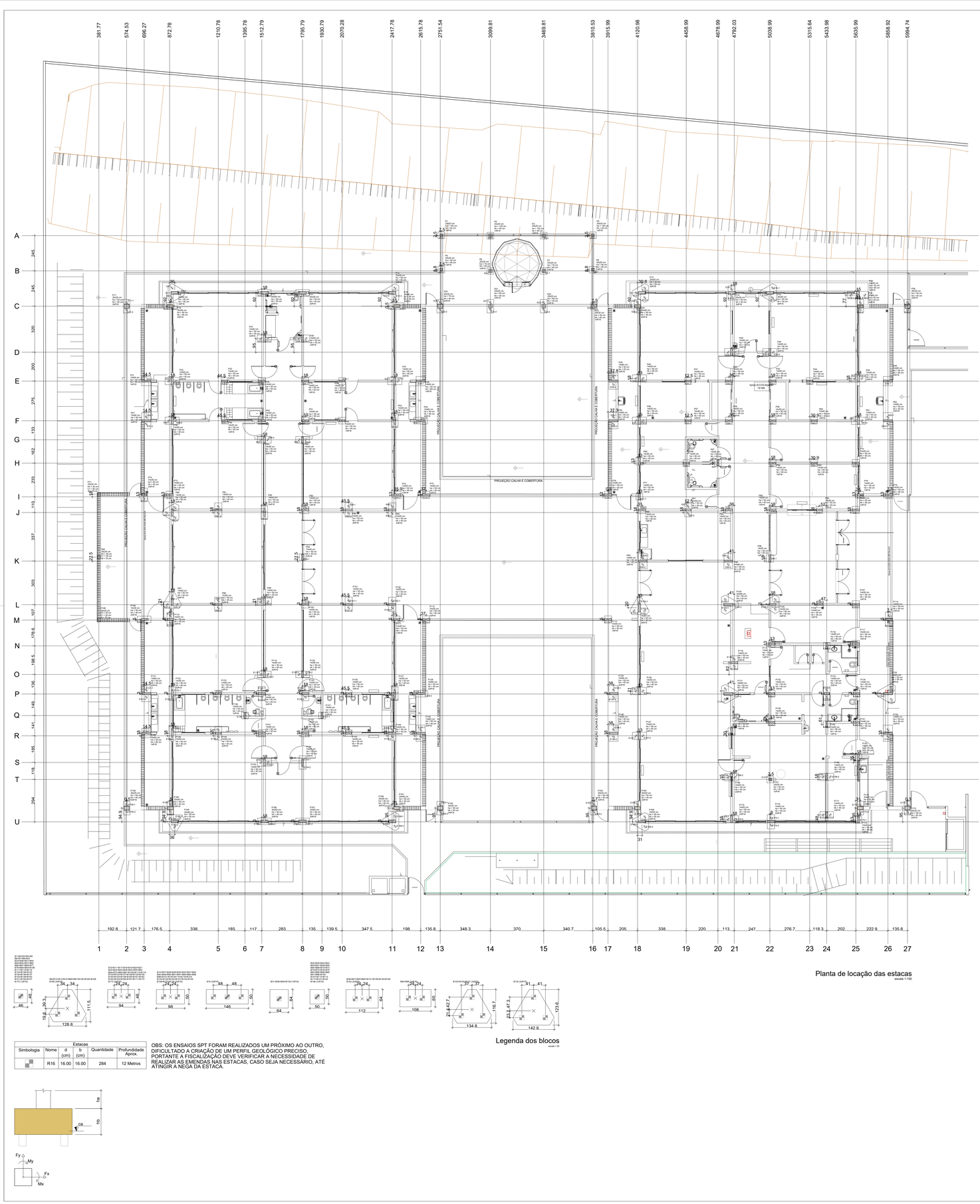
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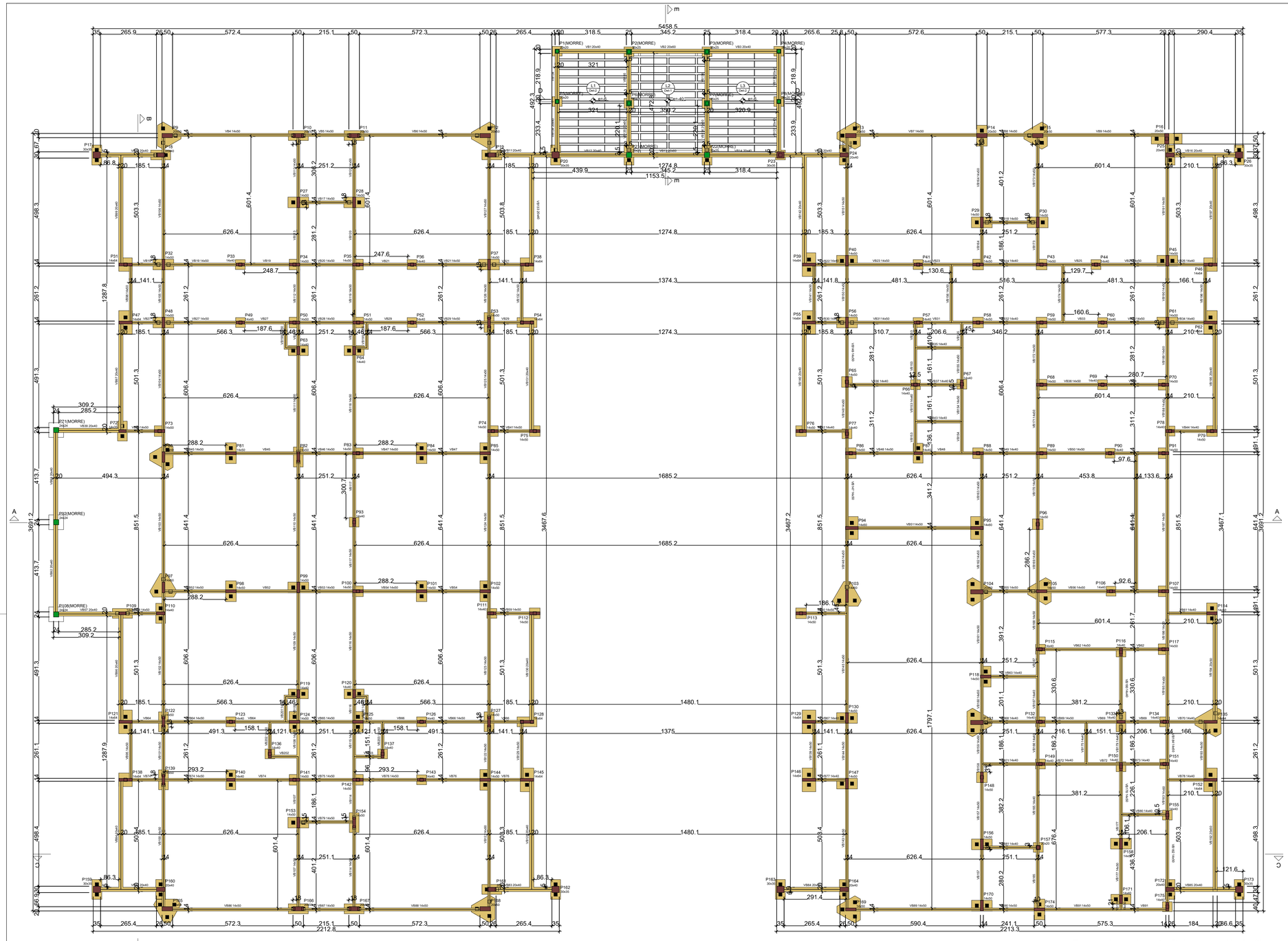
PROJEÇÃO CALHA E COBERTURA
PROJEÇÃO CALHA E COBERTURA
PROJEÇÃO CALHA E COBERTURA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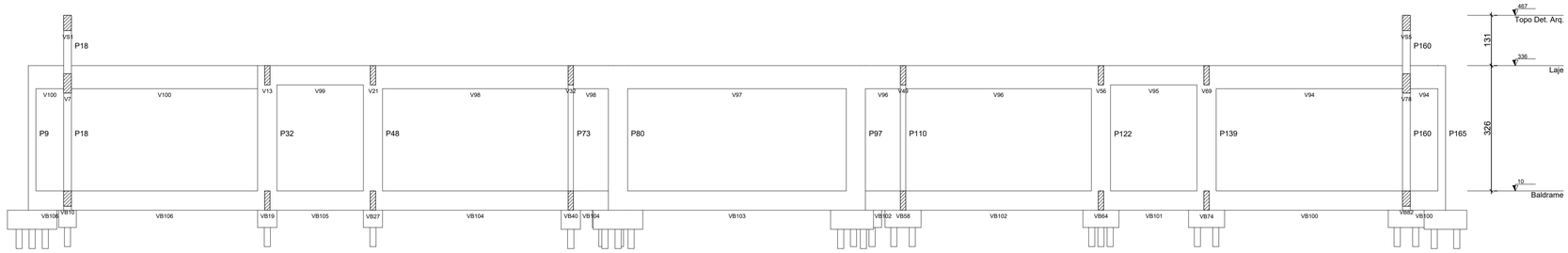
1274.8
1274.8

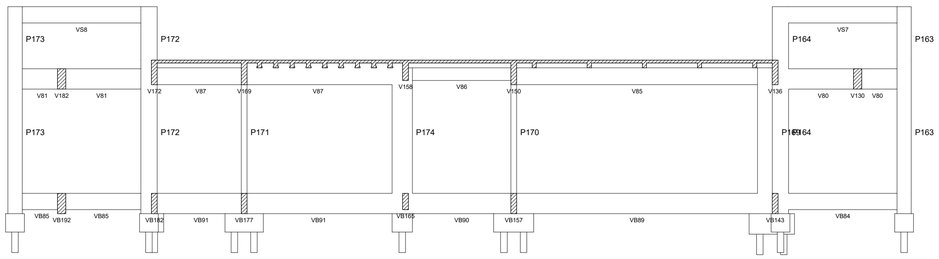
Corte A-A

escala 1:75



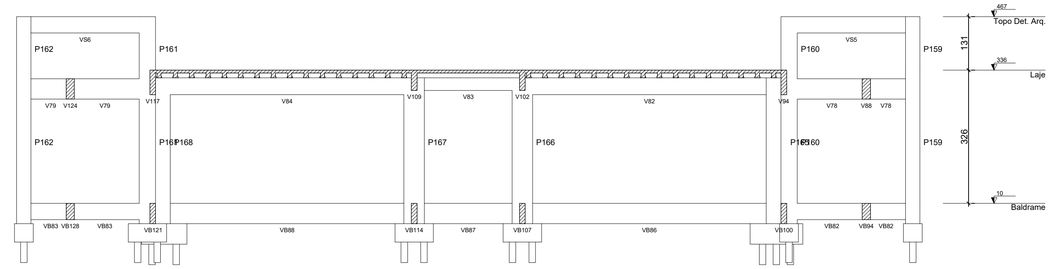
Corte B-B

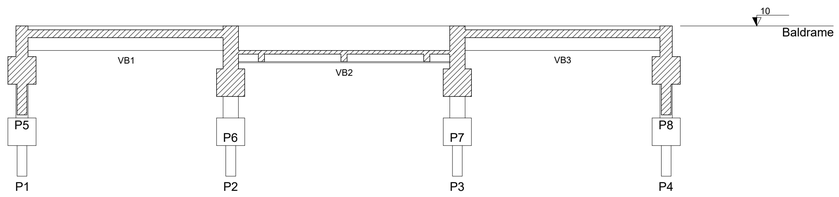
escala 1:75



Corte C-C

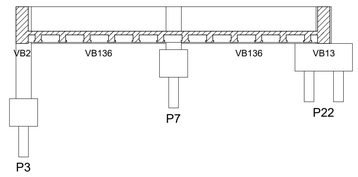
escala 1:75





Corte D-D

escala 1:50



Corte E-E (Baldrame)

escala 1:50

REV.	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	19-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
164693-0
CONTRATANTE:

PABLO VINICIUS RIGO:06875439913
Assinado de forma digital por PABLO VINICIUS RIGO:06875439913
Dados: 2024.12.03 15:50:55 -03'00'

ELABORAÇÃO: Amvali

CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO

CONTEÚDO: CORTE A-A, B-B, C-C, D-D E E-E — ESCALA: INDICADA

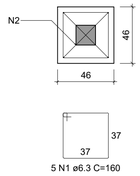
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro — ESTACA: —

CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG — FOLHA: 03-33

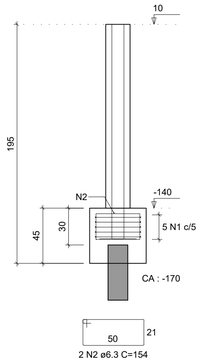
FORMATO A1 - 841x594mm

B1=B2=B3=B4
1xR16

PLANTA
ESC 1:25



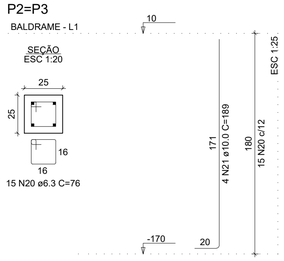
CORTE
ESC 1:25



P2=P3

BALDRAME - L1

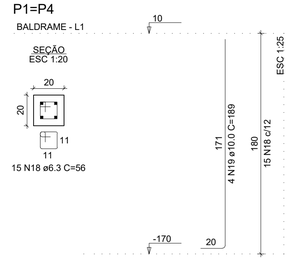
SEÇÃO
ESC 1:20



P1=P4

BALDRAME - L1

SEÇÃO
ESC 1:20



B5=B8=B33=B36=B41=B44=B49=B52=B57=B60 =B66=B67=B69=B77=B78=B90=B93=B106=B111 =B115=B116=B123=B126=B132=B134=B136=B137 =B143=B149=B150=B151=B155=B157=B175
1xR16

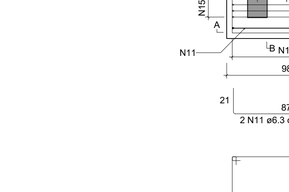
PLANTA
ESC 1:25

CORTE
ESC 1:25

P157

BALDRAME - L1

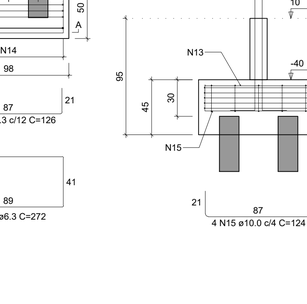
SEÇÃO
ESC 1:20



P33=P36=P41=P44=P49=P52= =P57=P60=P66=P67=P69=P77= =P78=P90=P93=P106=P111= =P115=P116=P123=P126=P132= =P134=P136=P137=P143=P149= =P150=P151=P155=P175

BALDRAME - L1

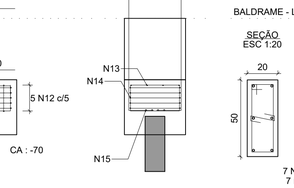
SEÇÃO
ESC 1:20



P5=P8

BALDRAME - L1

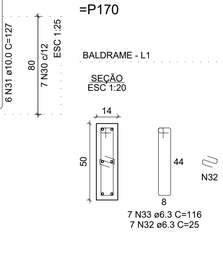
SEÇÃO
ESC 1:20



B6=B7
1xR16

PLANTA
ESC 1:25

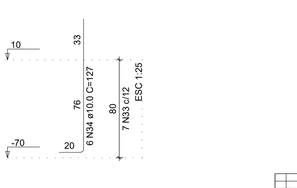
CORTE
ESC 1:25



P6=P7

BALDRAME - L1

SEÇÃO
ESC 1:20



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
4xB4	CA50	1	6.3	20	160	3200
	CA50	2	6.3	8	154	1232
2xB7	CA50	3	6.3	10	160	1600
	CA50	4	6.3	4	154	616
4xB165	CA50	5	6.3	24	VAR	VAR
	CA50	6	6.3	20	367	7340
	CA50	7	6.3	24	VAR	VAR
	CA50	8	6.3	24	VAR	VAR
	CA50	9	6.3	24	VAR	VAR
	CA50	10	8.0	48	149	7152
13xB170	CA50	11	6.3	26	126	3276
	CA50	12	6.3	65	272	17680
	CA50	13	6.3	52	98	5096
	CA50	14	6.3	65	132	8580
	CA50	15	10.0	52	124	6448
34xB175	CA50	16	6.3	170	160	27200
	CA50	17	6.3	68	154	10472
2xP1	CA50	18	6.3	30	56	1680
	CA50	19	10.0	8	189	1512
2xP2	CA50	20	6.3	30	76	2280
	CA50	21	10.0	8	189	1512
2xP5	CA50	22	6.3	14	56	784
	CA50	23	10.0	8	89	712
2xP6	CA50	24	6.3	18	76	1368
	CA50	25	10.0	8	109	872
4xP9	CA50	26	6.3	32	31	992
	CA50	27	6.3	32	128	4096
	CA50	28	10.0	24	132	3168
P14	CA50	29	6.3	7	31	217
	CA50	30	6.3	7	128	896
	CA50	31	10.0	6	127	762
12xP32	CA50	32	6.3	84	25	2100
	CA50	33	6.3	84	116	9744
	CA50	34	10.0	72	127	9144
31xP33	CA50	35	6.3	217	25	5425
	CA50	36	6.3	217	96	20832
	CA50	37	10.0	186	127	23622
P157	CA50	38	6.3	7	56	392
	CA50	39	10.0	4	127	508

RESUMO DO AÇO

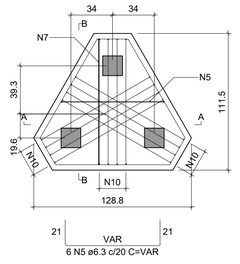
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	1460.7	393.2
	8.0	71.5	31
	10.0	482.6	327.3

PESO TOTAL (kg)	
CA50	751.5

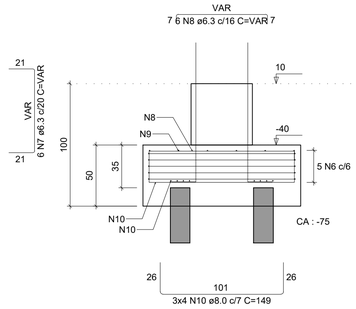
Volume de concreto (C-30) = 10.32 m³
Área de forma = 94.08 m²

B9=B12=B13=B165
3xR16

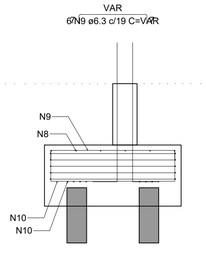
PLANTA
ESC 1:25



CORTE A-A
ESC 1:25



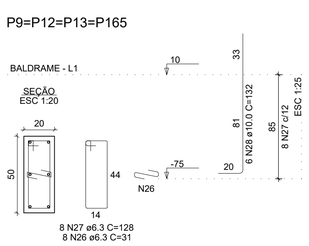
CORTE B-B
ESC 1:25

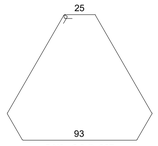


P9=P12=P13=P165

BALDRAME - L1

SEÇÃO
ESC 1:20





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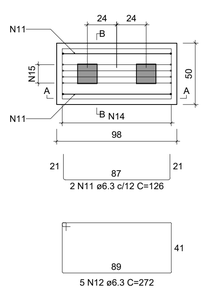
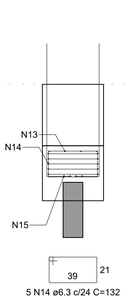
2xR16

PLANTA
ESC 1:25



CORTE A-A
ESC 1:25

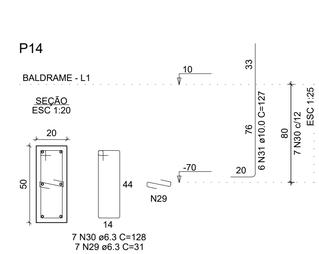
CORTE B-B
ESC 1:25



P14

BALDRAME - L1

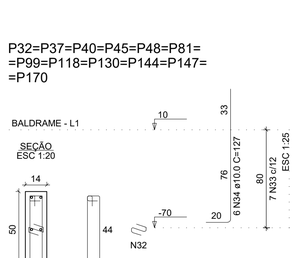
SEÇÃO
ESC 1:20



P32=P37=P40=P45=P48=P81= =P99=P118=P130=P144=P147= =P170

BALDRAME - L1

SEÇÃO
ESC 1:20



00	18-11-2024	PABLO	EMISSÃO INICIAL	AMVALI	
REV.	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO	

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
154680-0

PABLO VINICIUS RIGO:06875439 913
Assinado de forma digital por PABLO VINICIUS RIGO:06875439913
Dados: 2024.12.03 15:51:21 -03'00'

CONTRATANTE:

ELABORAÇÃO: Amvali

CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO

CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS BLOCOS

ESCALA: INDICADA

ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro

ESTACA: —

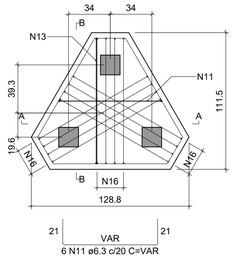
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG

FOLHA: 04-33

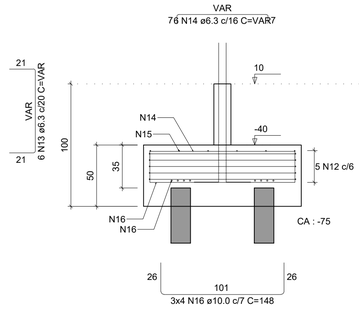
FORMATO A1 - 841x594mm

B15=B80=B97=B105
3xR16

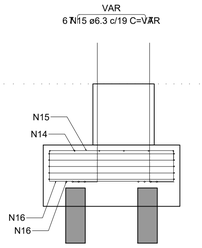
PLANTA
ESC 1:25



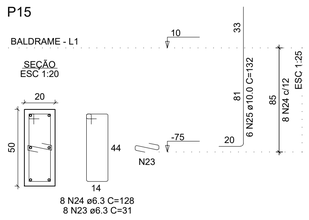
CORTE A-A
ESC 1:25



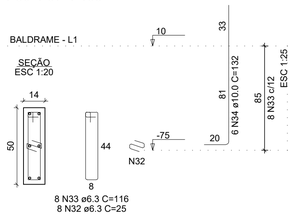
CORTE B-B
ESC 1:25

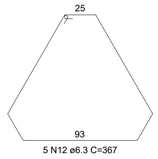


P15



P80=P97=P105





RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
B16	CA50	1	6.3	2	174	348
	CA50	2	6.3	4	368	1472
	CA50	3	6.3	4	146	584
	CA50	4	6.3	6	162	972
	CA50	5	8.0	4	203	812
B20	CA50	6	6.3	2	122	244
	CA50	7	6.3	5	256	1280
	CA50	8	6.3	4	94	376
	CA50	9	6.3	5	124	620
	CA50	10	8.0	4	121	484
4xB105	CA50	11	6.3	24	VAR	VAR
	CA50	12	6.3	20	367	7340
	CA50	13	6.3	24	VAR	VAR
	CA50	14	6.3	24	VAR	VAR
	CA50	15	6.3	24	VAR	VAR
	CA50	16	10.0	48	148	7104
2xB169	CA50	17	6.3	12	VAR	VAR
	CA50	18	6.3	10	367	3670
	CA50	19	6.3	12	VAR	VAR
	CA50	20	6.3	12	VAR	VAR
	CA50	21	6.3	12	VAR	VAR
	CA50	22	8.0	24	149	3576
P15	CA50	23	6.3	8	31	248
	CA50	24	6.3	8	128	1024
	CA50	25	10.0	6	132	792
P16	CA50	26	6.3	8	31	248
	CA50	27	6.3	8	128	1024
	CA50	28	10.0	6	142	852
P20	CA50	29	6.3	9	41	369
	CA50	30	6.3	9	118	1062
	CA50	31	10.0	6	147	882
3xP80	CA50	32	6.3	24	25	600
	CA50	33	6.3	24	116	2784
	CA50	34	10.0	18	132	2376
P168	CA50	35	6.3	8	31	248
	CA50	36	6.3	8	128	1024
	CA50	37	10.0	6	132	792
P169	CA50	38	6.3	8	25	200
	CA50	39	6.3	8	116	928
	CA50	40	10.0	6	132	792

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	401.3	108
	8.0	48.7	21.1
	10.0	135.9	92.2
PESO TOTAL (kg)			
CA50	221.3		

Volume de concreto (C-30) = 3.84 m³
Área de forma = 20.77 m²

B16
3xR16

PLANTA
ESC 1:25

CORTE A-A
ESC 1:25

CORTE B-B
ESC 1:25

P16

B20
2xR16

PLANTA
ESC 1:25

CORTE A-A
ESC 1:25

CORTE B-B
ESC 1:25

P20

B168=B169
3xR16

PLANTA
ESC 1:25

CORTE A-A
ESC 1:25

CORTE B-B
ESC 1:25

P168

P169

00	19-11-2024	PABLO	EMISSÃO INICIAL		AMVALI	
REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO			VERIFICAÇÃO

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
184680-0
CONTRATANTE:

PABLO VINICIUS RIGO:06875439
Assinado de forma digital por PABLO VINICIUS RIGO:06875439913
Dados: 2024.12.03 15:51:52 -03'00'
913

ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

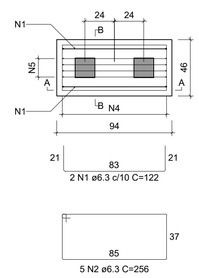
TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS BLOCOS
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: ---
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 05-33

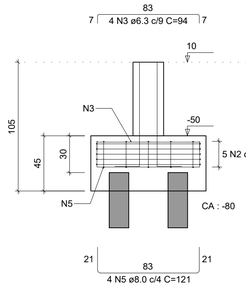
FORMATO A1 - 841x594mm

B21=B22
2xR16

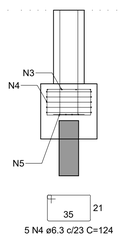
PLANTA
ESC 1:25



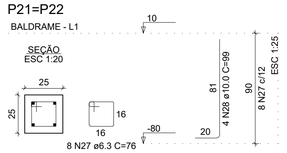
CORTE A-A
ESC 1:25



CORTE B-B
ESC 1:25

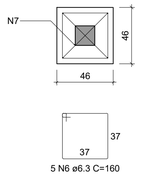


P21=P22

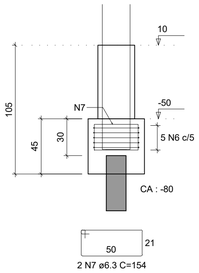


B23
1xR16

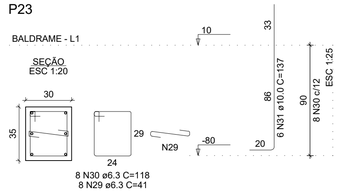
PLANTA
ESC 1:25



CORTE
ESC 1:25

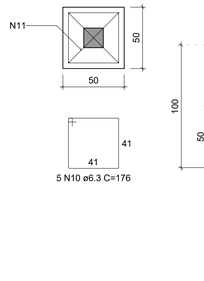


P23

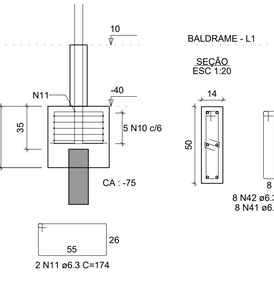


B24=B25=B82=B160=B164
2xR16

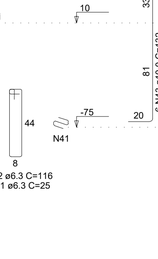
PLANTA
ESC 1:25



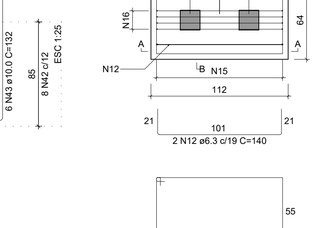
CORTE A-A
ESC 1:25



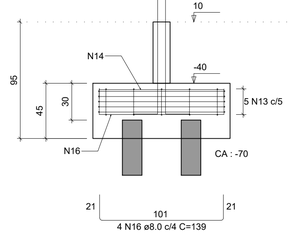
CORTE B-B
ESC 1:25



P24=P25=P160=P164



P82



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
2xB22	CA50	1	6.3	4	122	488
	CA50	2	6.3	10	256	2560
	CA50	3	6.3	8	94	752
	CA50	4	6.3	10	124	1240
	CA50	5	8.0	8	121	968
B23	CA50	6	6.3	5	160	800
	CA50	7	6.3	2	154	308
4xB138	CA50	8	6.3	20	232	4640
	CA50	9	6.3	8	234	1872
30xB148	CA50	10	6.3	150	176	26400
	CA50	11	6.3	60	174	10440
9xB152	CA50	12	6.3	18	140	2520
	CA50	13	6.3	45	328	14760
	CA50	14	6.3	36	112	4032
	CA50	15	6.3	45	160	7200
	CA50	16	8.0	36	139	5004
5xB164	CA50	17	6.3	10	122	1220
	CA50	18	6.3	25	256	6400
	CA50	19	6.3	20	94	1880
	CA50	20	6.3	25	124	3100
	CA50	21	10.0	20	120	2400
18xB174	CA50	22	6.3	36	126	4536
	CA50	23	6.3	90	272	24480
	CA50	24	6.3	72	98	7056
	CA50	25	6.3	90	132	11880
	CA50	26	8.0	72	125	9000
2xP21	CA50	27	6.3	16	76	1216
	CA50	28	10.0	8	99	792
P23	CA50	29	6.3	8	41	328
	CA50	30	6.3	8	118	944
	CA50	31	10.0	6	137	822
4xP24	CA50	32	6.3	28	31	868
	CA50	33	6.3	28	108	3024
	CA50	34	10.0	24	127	3048
16xP27	CA50	35	6.3	112	25	2800
	CA50	36	6.3	112	116	12992
	CA50	37	10.0	96	127	12192
4xP31	CA50	38	6.3	32	25	800
	CA50	39	6.3	32	144	4608
	CA50	40	10.0	24	142	3408
30xP34	CA50	41	6.3	240	25	6000
	CA50	42	6.3	240	116	27840
	CA50	43	10.0	180	132	23760
9xP39	CA50	44	6.3	63	25	1575
	CA50	45	6.3	63	144	9072
	CA50	46	10.0	54	127	6858
P82	CA50	47	6.3	7	25	175
	CA50	48	6.3	7	116	812
	CA50	49	10.0	6	127	762
2xP156	CA50	50	6.3	14	21	294
	CA50	51	6.3	14	104	1456
	CA50	52	10.0	12	127	1524

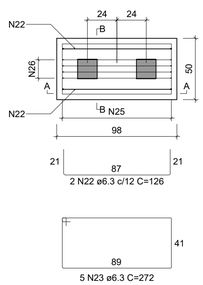
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	2133.7	574.3
	8.0	149.7	65
	10.0	555.7	376.8
PESO TOTAL (kg)			
CA50	1016.2		

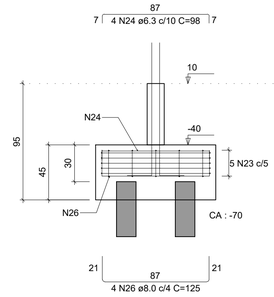
Volume de concreto (C-30) = 15.26 m³
Área de forma = 129.90 m²

B27=B28=B29=B30=B56=B61=B84=B85=B98=B101 =B102=B114=B124=B125=B153=B156=B158=B174
2xR16

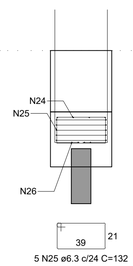
PLANTA
ESC 1:25



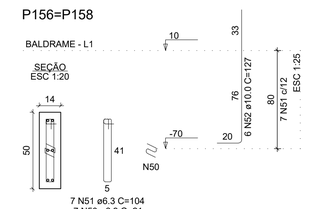
CORTE A-A
ESC 1:25



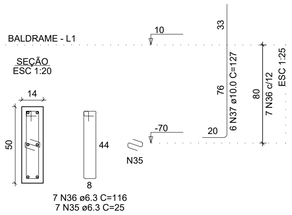
CORTE B-B
ESC 1:25



P156=P158

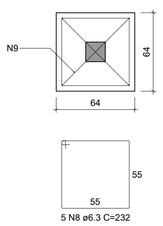


P27=P28=P29=P30=P56=P61= =P84=P85=P98=P101=P102= =P114=P124=P125=P153=P174

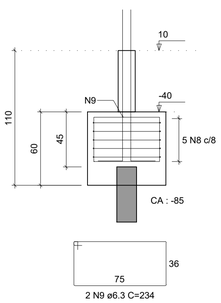


B31=B38=B46=B138
1xR16

PLANTA
ESC 1:25



CORTE
ESC 1:25



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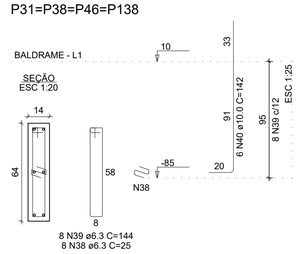
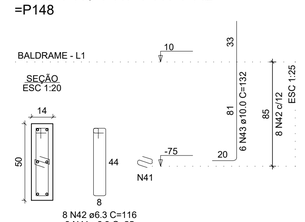


B34=B35=B42=B43=B50=B51=B58=B59=B65=B68 =B70=B73=B74=B75=B76=B79=B83=B86=B88 =B89=B91=B96=B100=B107=B112=B113=B117 =B141=B142=B148
1xR16

PLANTA
ESC 1:25

CORTE
ESC 1:25

P34=P35=P42=P43=P50=P51= =P58=P59=P65=P68=P70=P73= =P74=P75=P76=P79=P83=P86= =P88=P89=P91=P96=P100=P107= =P112=P113=P117=P141=P142= =P148

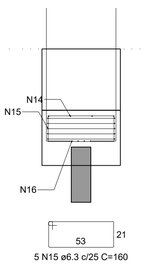


B39=B47=B55=B62=B121=B129=B145=B146=B152
2xR16

PLANTA
ESC 1:25

CORTE A-A
ESC 1:25

CORTE B-B
ESC 1:25



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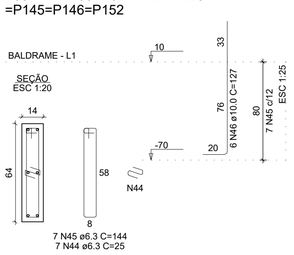


00	19-11-2024	PABLO	EMISSÃO INICIAL		AMVALI	
REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO		VERIFICAÇÃO	

ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
156680-0
CONTRATANTE:

PABLO VINICIUS RIGO:06875439913 — Assinado de forma digital por PABLO VINICIUS RIGO:06875439913 Dados: 2024.12.03 15:52:18 -03'00'

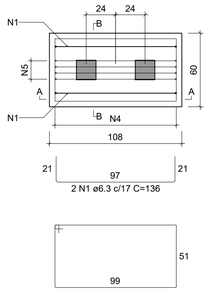
TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS BLOCOS
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: —
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 06-33

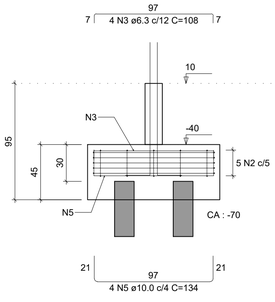
FORMATO A1 - 841x594mm

B94=B95
2xR16

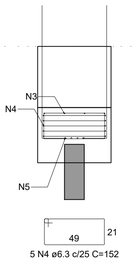
PLANTA
ESC 1:25



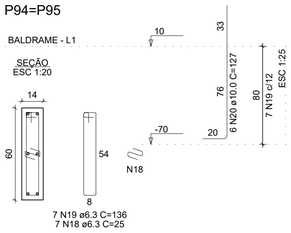
CORTE A-A
ESC 1:25



CORTE B-B
ESC 1:25

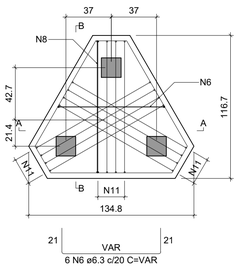


P94=P95

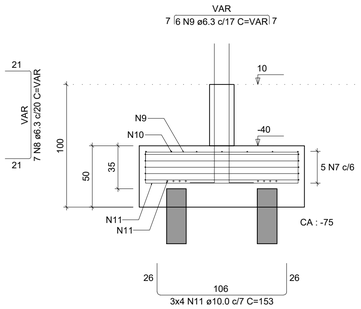


B103=B104=B131
3xR16

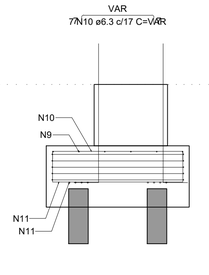
PLANTA
ESC 1:25



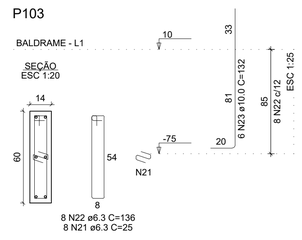
CORTE A-A
ESC 1:25



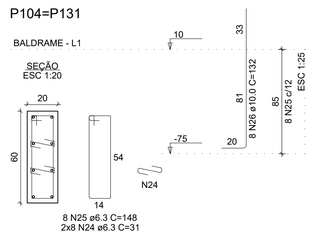
CORTE B-B
ESC 1:25

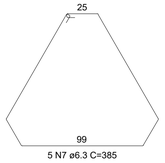


P103



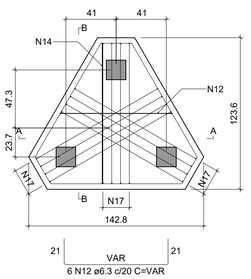
P104=P131



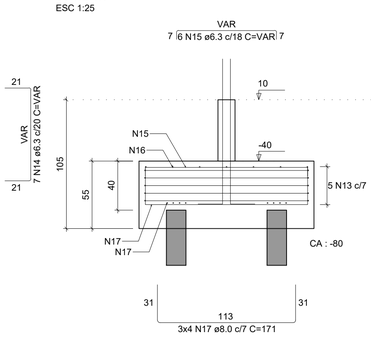


B135
3xR16

PLANTA
ESC 1:25



CORTE A-A
ESC 1:25



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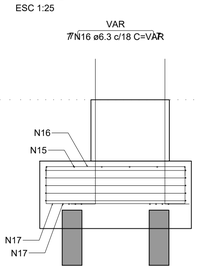
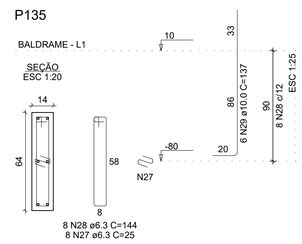
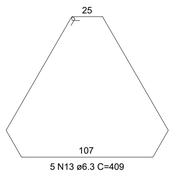


P135





RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
2xB95	CA50	1	6.3	4	136	544
	CA50	2	6.3	10	312	3120
	CA50	3	6.3	8	108	864
	CA50	4	6.3	10	152	1520
	CA50	5	10.0	8	134	1072
3xB131	CA50	6	6.3	18	VAR	VAR
	CA50	7	6.3	15	385	5775
	CA50	8	6.3	21	VAR	VAR
	CA50	9	6.3	18	VAR	VAR
	CA50	10	6.3	21	VAR	VAR
	CA50	11	10.0	36	153	5508
B135	CA50	12	6.3	6	VAR	VAR
	CA50	13	6.3	5	409	2045
	CA50	14	6.3	7	VAR	VAR
	CA50	15	6.3	6	VAR	VAR
	CA50	16	6.3	7	VAR	VAR
	CA50	17	8.0	12	171	2052
2xP94	CA50	18	6.3	14	25	350
	CA50	19	6.3	14	136	1904
	CA50	20	10.0	12	127	1524
P103	CA50	21	6.3	8	25	200
	CA50	22	6.3	8	136	1088
	CA50	23	10.0	6	132	792
2xP104	CA50	24	6.3	32	31	992
	CA50	25	6.3	16	148	2368
	CA50	26	10.0	16	132	2112
P135	CA50	27	6.3	8	25	200
	CA50	28	6.3	8	144	1152
	CA50	29	10.0	6	137	822

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	322.8	86.9
	8.0	20.5	8.9
	10.0	118.3	80.2
PESO TOTAL (kg)			
CA50	176		

Volume de concreto (C-30) = 3.05 m³
Área de forma = 16.04 m²

REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	19/11/2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
164880-D

PABLO VINICIUS RIGO:06875439 913
Assinado de forma digital por PABLO VINICIUS RIGO:06875439913
Dados: 2024.12.03 15:52:43 -03'00'

CONTRATANTE:

ELABORAÇÃO: Amvali

CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO: PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO

CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS BLOCOS

ESCALA: INDICADA

ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro

ESTACA: ----

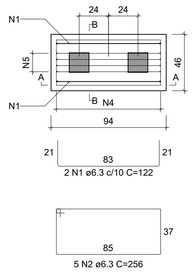
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG

FOLHA: 07-33

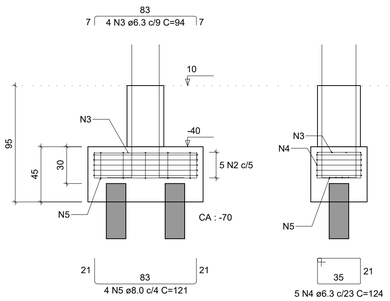
FORMATO A1 - 841x594mm

B10=B11=B17=B18=B19=B26=B53=B54=B63=B64
=B72=B87=B109=B110=B119=B120=B122=B127
=B128=B133=B139=B140=B154=B159=B161=B162
=B163=B166=B167=B171=B172=B173
2xR16

PLANTA
ESC 1:25



CORTE A-A
ESC 1:25



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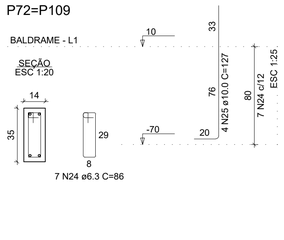

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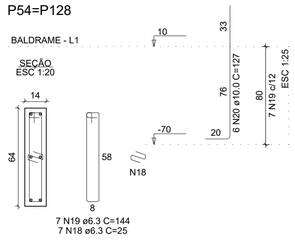

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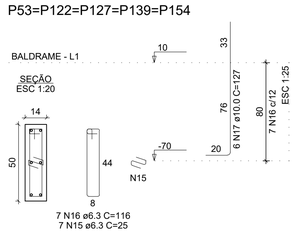
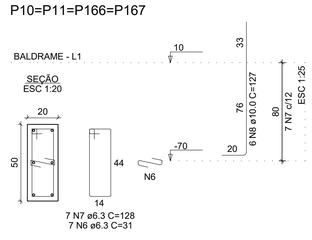


P10=P11=P166=P167



RELAÇÃO DO AÇO

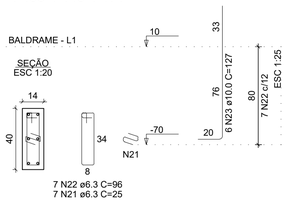
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
32xB173	CA50	1	6.3	64	122	7808
	CA50	2	6.3	160	256	40960
	CA50	3	6.3	128	94	12032
	CA50	4	6.3	160	124	19840
	CA50	5	8.0	128	121	15488
4xP10	CA50	6	6.3	28	31	868
	CA50	7	6.3	28	128	3584
	CA50	8	10.0	24	127	3048
6xP17	CA50	9	6.3	42	41	1722
	CA50	10	6.3	42	118	4956
	CA50	11	10.0	36	127	4572
4xP18	CA50	12	6.3	28	31	868
	CA50	13	6.3	28	108	3024
	CA50	14	10.0	24	127	3048
5xP53	CA50	15	6.3	35	25	875
	CA50	16	6.3	35	116	4060
	CA50	17	10.0	30	127	3810
2xP54	CA50	18	6.3	14	25	350
	CA50	19	6.3	14	144	2016
	CA50	20	10.0	12	127	1524
9xP63	CA50	21	6.3	63	25	1575
	CA50	22	6.3	63	96	6048
	CA50	23	10.0	54	127	6858
2xP72	CA50	24	6.3	14	86	1204
	CA50	25	10.0	8	127	1016

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	1117.9	300.9
	8.0	154.9	67.2
	10.0	238.8	161.9
PESO TOTAL (kg)			
CA50	530.1		

Volume de concreto (C-30) = 7.22 m³
Área de forma = 60.02 m²

P63=P64=P87=P110=P119=P120=
=P133=P140=P171



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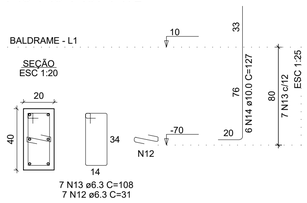

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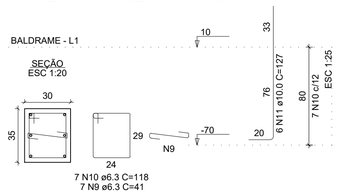
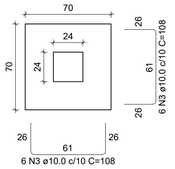
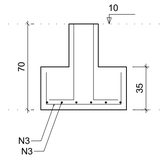


S71=S92=S108

PLANTA
ESC 1:25



CORTE
ESC 1:25



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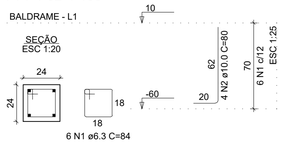


Solo compactado sobre a sapata
peso específico > 1500.00 kgf/m³

RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
3xP71	CA50	1	6.3	18	84	1512
	CA50	2	10.0	12	80	960
3xS108	CA50	3	10.0	36	108	3888

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	15.1	4.1
	10.0	48.5	32.9
PESO TOTAL (kg)			
CA50	36.9		

Volume de concreto (C-30) = 0.57 m³
Área de forma = 3.95 m²

REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	18-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
154680-0
CONTRATANTE:

PABLO VINICIUS RIGO:06875439913 — Assinado de forma digital por PABLO VINICIUS RIGO:06875439913 Dados: 2024.12.03 15:53:22 -03'00'

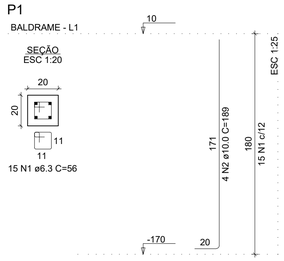
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS BLOCOS E SAPATAS
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: —
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 08-33

FORMATO A1 - 841x594mm

P1



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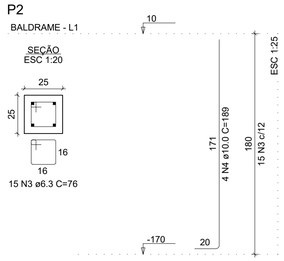

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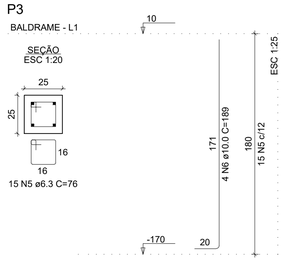

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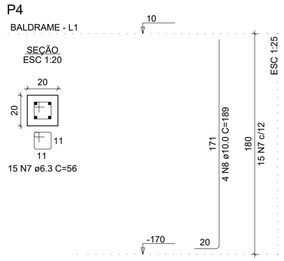
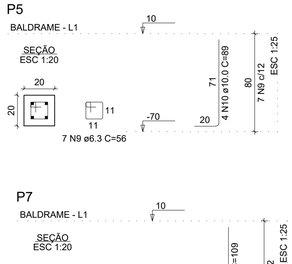
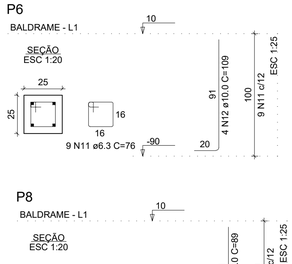


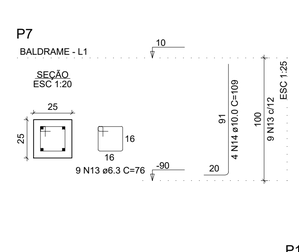
P5



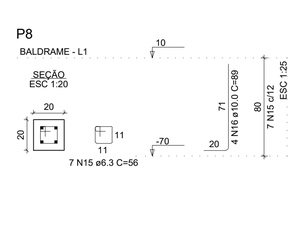
P6



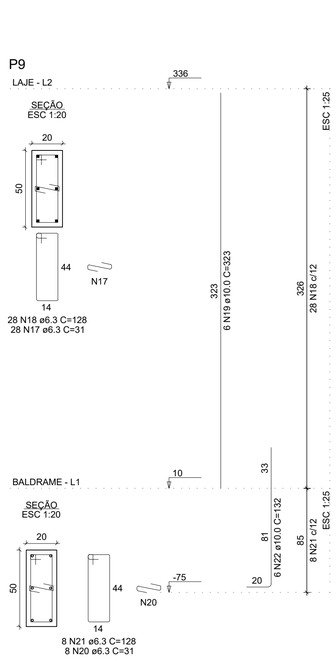
P7



P8



P9



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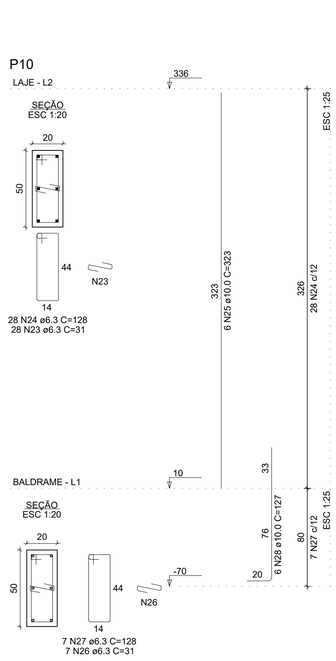

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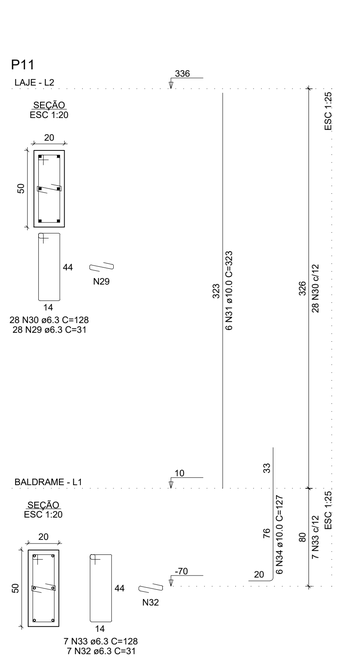

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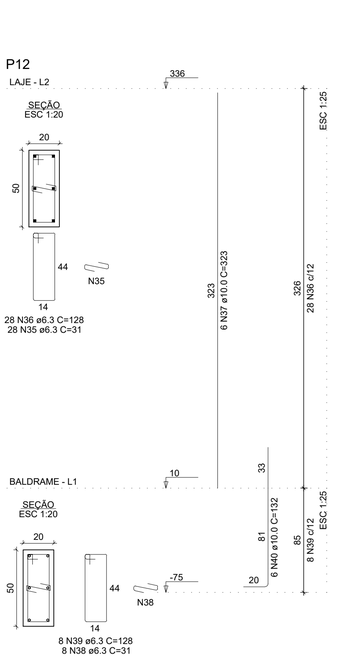

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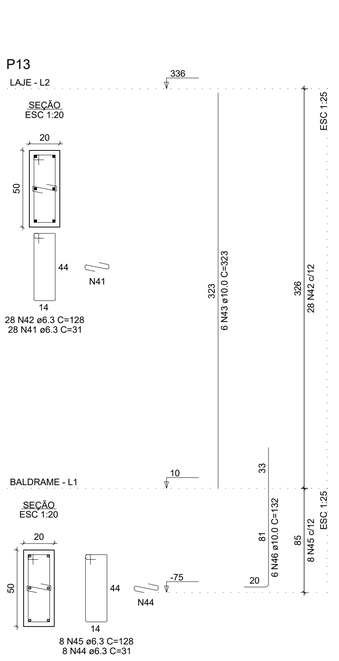
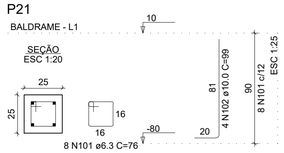


P14

P15

P16

P21



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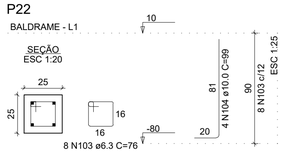


RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P1-L1	CA50	1	6.3	15	56	840
	CA50	2	10.0	4	189	756
P2-L1	CA50	3	6.3	15	76	1140
	CA50	4	10.0	4	189	756
P3-L1	CA50	5	6.3	15	76	1140
	CA50	6	10.0	4	189	756
P4-L1	CA50	7	6.3	15	56	840
	CA50	8	10.0	4	189	756
P5-L1	CA50	9	6.3	7	56	392
	CA50	10	10.0	4	89	356
P6-L1	CA50	11	6.3	9	76	684
	CA50	12	10.0	4	109	436
P7-L1	CA50	13	6.3	9	76	684
	CA50	14	10.0	4	109	436
P8-L1	CA50	15	6.3	7	56	392
	CA50	16	10.0	4	89	356
P9-L2	CA50	17	6.3	28	31	868
	CA50	18	6.3	28	128	3584
P9-L1	CA50	19	10.0	6	323	1938
	CA50	20	6.3	8	31	248
P10-L2	CA50	21	6.3	8	128	1024
	CA50	22	10.0	6	132	792
	CA50	23	6.3	28	31	868
	CA50	24	6.3	28	128	3584
P10-L1	CA50	25	10.0	6	323	1938
	CA50	26	6.3	7	31	217
	CA50	27	6.3	7	128	896
P11-L2	CA50	28	10.0	6	127	762
	CA50	29	6.3	28	31	868
	CA50	30	6.3	28	128	3584
P11-L1	CA50	31	10.0	6	323	1938
	CA50	32	6.3	7	31	217
	CA50	33	6.3	7	128	896
P12-L2	CA50	34	10.0	6	127	762
	CA50	35	6.3	28	31	868
	CA50	36	6.3	28	128	3584
P12-L1	CA50	37	10.0	6	323	1938
	CA50	38	6.3	8	31	248
	CA50	39	6.3	8	128	1024
P13-L2	CA50	40	10.0	6	132	792
	CA50	41	6.3	28	31	868
	CA50	42	6.3	28	128	3584
P13-L1	CA50	43	10.0	6	323	1938
	CA50	44	6.3	8	31	248
	CA50	45	6.3	8	128	1024
P14-L2	CA50	46	10.0	6	132	792
	CA50	47	6.3	28	31	868
	CA50	48	6.3	28	128	3584
P14-L1	CA50	49	10.0	6	323	1938
	CA50	50	6.3	7	31	217
	CA50	51	6.3	7	128	896
P15-L2	CA50	52	10.0	6	127	762
	CA50	53	6.3	28	31	868
	CA50	54	6.3	28	128	3584
P15-L1	CA50	55	10.0	6	323	1938
	CA50	56	6.3	8	31	248
	CA50	57	6.3	8	128	1024
P16-L2	CA50	58	10.0	6	132	792
	CA50	59	6.3	28	31	868
	CA50	60	6.3	28	128	3584
P16-L1	CA50	61	10.0	6	323	1938
	CA50	62	6.3	8	31	248
	CA50	63	6.3	8	128	1024
P17-L3	CA50	64	10.0	6	142	852
	CA50	65	6.3	11	41	451
	CA50	66	6.3	11	118	1298
P17-L2	CA50	67	10.0	6	128	768
	CA50	68	6.3	28	41	1148
	CA50	69	6.3	28	118	3304
P17-L1	CA50	70	10.0	6	359	2154
	CA50	71	6.3	7	41	287
	CA50	72	6.3	7	118	826
P18-L3	CA50	73	10.0	6	127	762
	CA50	74	6.3	11	31	341
	CA50	75	6.3	11	108	1188
P18-L2	CA50	76	10.0	6	128	768
	CA50	77	6.3	28	31	868
	CA50	78	6.3	28	108	3024
P18-L1	CA50	79	10.0	6	359	2154
	CA50	80	6.3	7	31	217
	CA50	81	6.3	7	108	756
P19-L3	CA50	82	10.0	6	127	762
	CA50	83	6.3	11	31	341
	CA50	84	6.3	11	108	1188
P19-L2	CA50	85	10.0	6	128	768
	CA50	86	6.3	28	31	868
	CA50	87	6.3	28	108	3024
P19-L1	CA50	88	10.0	6	359	2154
	CA50	89	6.3	7	31	217
	CA50	90	6.3	7	108	756
P20-L3	CA50	91	10.0	6	127	762
	CA50	92	6.3	11	41	451
	CA50	93	6.3	11	118	1298
P20-L2	CA50	94	10.0	6	128	768
	CA50	95	6.3	28	41	1148
	CA50	96	6.3	28	118	3304
P20-L1	CA50	97	10.0	6	359	2154
	CA50	98	6.3	9	41	369
	CA50	99	6.3	9	118	1062
P21-L1	CA50	100	10.0	6	147	882
	CA50	101	6.3	8	76	608
P22-L1	CA50	102	10.0	4	99	396
	CA50	103	6.3	8	76	608
P23-L3	CA50	104	10.0	4	99	396
	CA50	105	6.3	11	41	451
	CA50	106	6.3	11	118	1298
P23-L2	CA50	107	10.0	6	128	768
	CA50	108	6.3	28	41	1148
	CA50	109	6.3	28	118	3304
P23-L1	CA50	110	10.0	6	359	2154
	CA50	111	6.3	8	41	328
	CA50	112	6.3	8	118	944
P24-L3	CA50	113	10.0	6	137	822
	CA50	114	6.3	11	31	341
	CA50	115	6.3	11	108	1188
P24-L2	CA50	116	10.0	6	128	768
	CA50	117	6.3	28	31	868
	CA50	118	6.3	28	108	3024
P24-L1	CA50	119	10.0	6	359	2154
	CA50	120	6.3	7	31	217
	CA50	121	6.3	7	108	756
P25-L3	CA50	122	10.0	6	127	762
	CA50	123	6.3	11	31	341
	CA50	124	6.3	11	108	1188
P25-L2	CA50	125	10.0	6	128	768
	CA50	126	6.3	28	31	868
	CA50	127	6.3	28	108	3024
P25-L1	CA50	128	10.0	6	359	2154
	CA50	129	6.3	7	31	217
	CA50	130	6.3	7	108	756
P26-L3	CA50	131	10.0	6	127	762
	CA50	132	6.3	11	41	451
	CA50	133	6.3	11	118	1298
P26-L2	CA50	134	10.0	6	128	768
	CA50	135	6.3	28	41	1148
	CA50	136	6.3	28	118	3304
P26-L1	CA50	137	10.0	6	359	2154
	CA50	138	6.3	7	41	287
	CA50	139	6.3	7	118	826
	CA50	140	10.0	6	127	762

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	1079.5	290.6
	10.0	568.6	385.6
PESO TOTAL (kg)			
CA50	676.2		

Volume de concreto (C-30) = 7.30 m³
Área de forma = 102.00 m²

REV	DATA	DESENHO	EMISSÃO INICIAL / ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	15-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

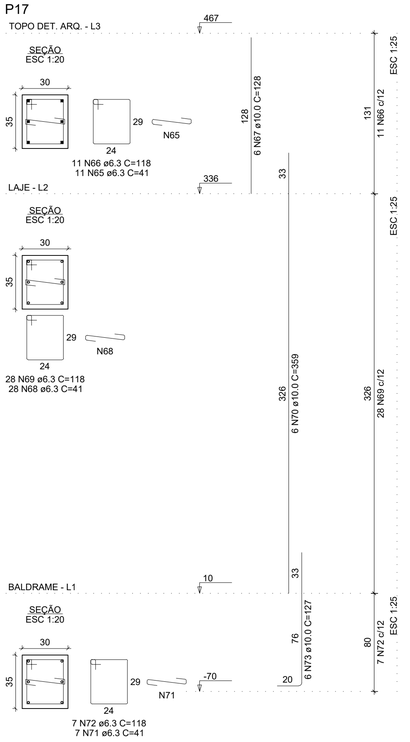
RESPONSÁVEL TÉCNICO: PABLO VINÍCIUS RIGO, ENG. CIVIL, 164680-0
PABLO VINICIUS RIGO:06875439913 Assinado de forma digital por PABLO VINICIUS RIGO:06875439913 Dados: 2024.12.03 15:53:50 -03'00'
CONTRATANTE:

ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO: PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA
PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: ---
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 09-33

FORMATO A1 - 841x594mm

P17



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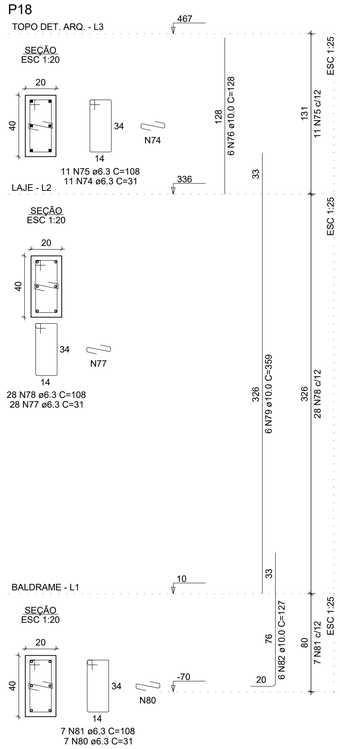
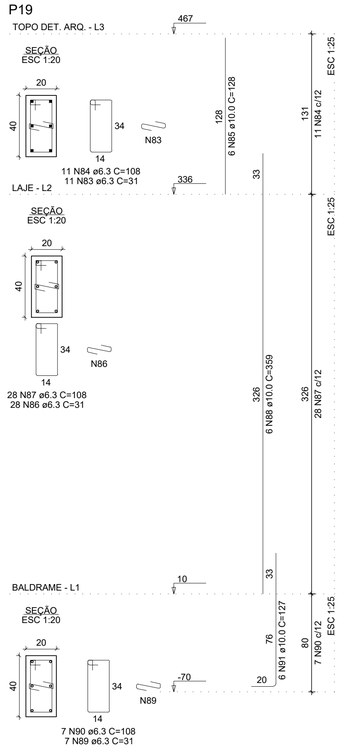


P19



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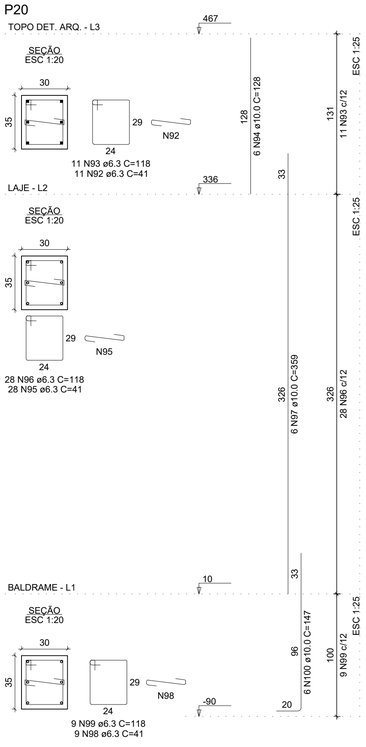

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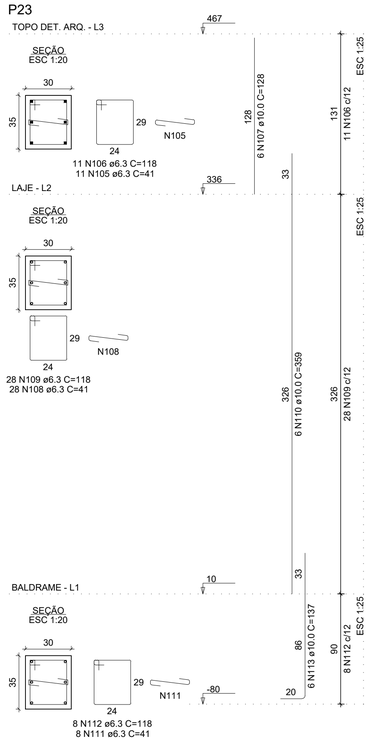

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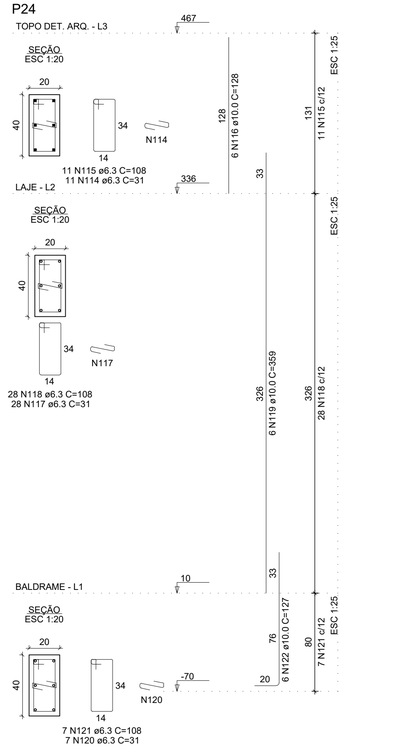

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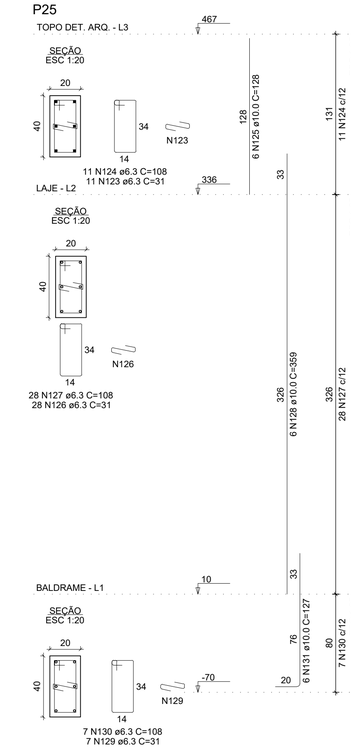

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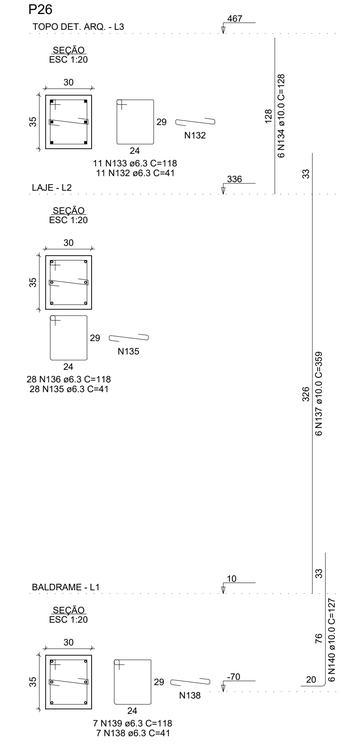


REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	19-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
156693-0
CONTRATANTE:

PABLO VINICIUS RIGO:06875439913 Assinado de forma digital por PABLO VINICIUS Dados: 2024.12.03 15:54:20 -03'00'

ELABORAÇÃO: Amvali

CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO

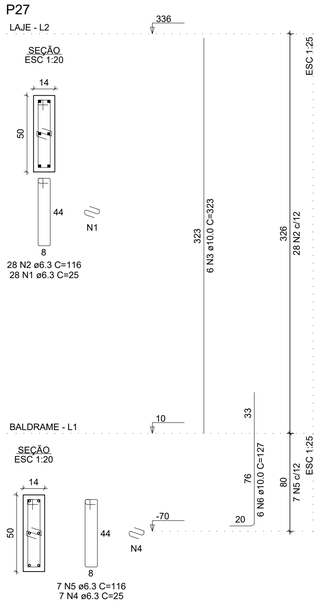
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES — ESCALA: INDICADA

ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro — ESTACA: —

CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG — FOLHA: 10-33

FORMATO A1 - 841x594mm

P27



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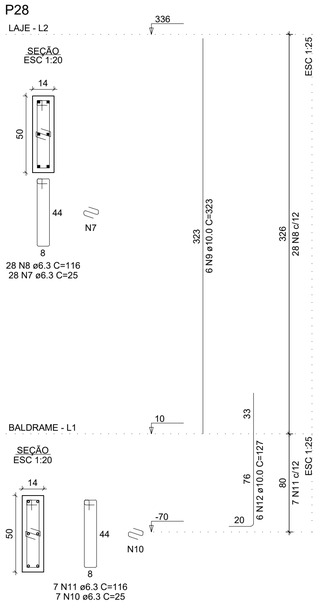

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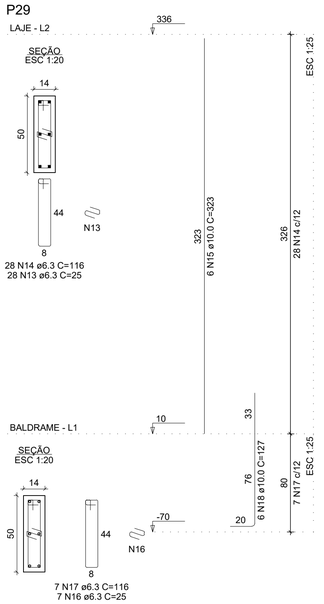

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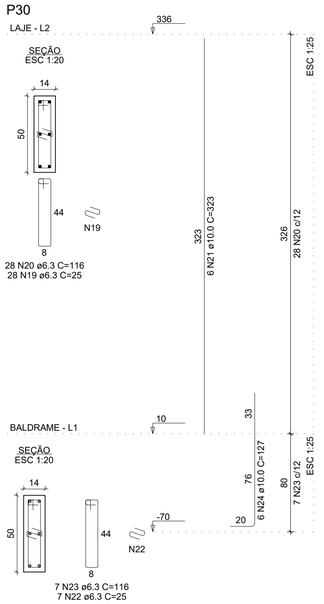

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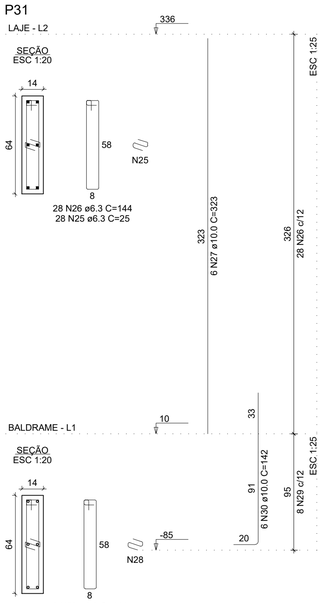


P32

P33

P34

P35

P36

RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P27-L2	CA50	1	6.3	28	25	700
	CA50	2	6.3	28	116	3248
	CA50	3	10.0	6	323	1938
P27-L1	CA50	4	6.3	7	25	175
	CA50	5	6.3	7	116	812
	CA50	6	10.0	6	127	762
P28-L2	CA50	7	6.3	28	25	700
	CA50	8	6.3	28	116	3248
	CA50	9	10.0	6	323	1938
P28-L1	CA50	10	6.3	7	25	175
	CA50	11	6.3	7	116	812
	CA50	12	10.0	6	127	762
P29-L2	CA50	13	6.3	28	25	700
	CA50	14	6.3	28	116	3248
	CA50	15	10.0	6	323	1938
P29-L1	CA50	16	6.3	7	25	175
	CA50	17	6.3	7	116	812
	CA50	18	10.0	6	127	762
P30-L2	CA50	19	6.3	28	25	700
	CA50	20	6.3	28	116	3248
	CA50	21	10.0	6	323	1938
P30-L1	CA50	22	6.3	7	25	175
	CA50	23	6.3	7	116	812
	CA50	24	10.0	6	127	762
P31-L2	CA50	25	6.3	28	25	700
	CA50	26	6.3	28	144	4032
	CA50	27	10.0	6	323	1938
P31-L1	CA50	28	6.3	8	25	200
	CA50	29	6.3	8	144	1152
	CA50	30	10.0	6	142	852
P32-L2	CA50	31	6.3	28	25	700
	CA50	32	6.3	28	116	3248
	CA50	33	10.0	6	323	1938
P32-L1	CA50	34	6.3	7	25	175
	CA50	35	6.3	7	116	812
	CA50	36	10.0	6	127	762
P33-L2	CA50	37	6.3	28	25	700
	CA50	38	6.3	28	96	2688
	CA50	39	10.0	6	323	1938
P33-L1	CA50	40	6.3	7	25	175
	CA50	41	6.3	7	96	672
	CA50	42	10.0	6	127	762
P34-L2	CA50	43	6.3	28	25	700
	CA50	44	6.3	28	116	3248
	CA50	45	10.0	6	323	1938
P34-L1	CA50	46	6.3	8	25	200
	CA50	47	6.3	8	116	928
	CA50	48	10.0	6	132	792
P35-L2	CA50	49	6.3	28	25	700
	CA50	50	6.3	28	116	3248
	CA50	51	10.0	6	323	1938
P35-L1	CA50	52	6.3	8	25	200
	CA50	53	6.3	8	116	928
	CA50	54	10.0	6	132	792
P36-L2	CA50	55	6.3	28	25	700
	CA50	56	6.3	28	96	2688
	CA50	57	10.0	6	323	1938
P36-L1	CA50	58	6.3	7	25	175
	CA50	59	6.3	7	96	672
	CA50	60	10.0	6	127	762
P37-L2	CA50	61	6.3	28	25	700
	CA50	62	6.3	28	116	3248
	CA50	63	10.0	6	323	1938
P37-L1	CA50	64	6.3	7	25	175
	CA50	65	6.3	7	116	812
	CA50	66	10.0	6	127	762
P38-L2	CA50	67	6.3	28	25	700
	CA50	68	6.3	28	144	4032
	CA50	69	10.0	6	323	1938
P38-L1	CA50	70	6.3	8	25	200
	CA50	71	6.3	8	144	1152
	CA50	72	10.0	6	142	852
P39-L2	CA50	73	6.3	28	25	700
	CA50	74	6.3	28	144	4032
	CA50	75	10.0	6	323	1938
P39-L1	CA50	76	6.3	7	25	175
	CA50	77	6.3	7	144	1008
	CA50	78	10.0	6	127	762
P40-L2	CA50	79	6.3	28	25	700
	CA50	80	6.3	28	116	3248
	CA50	81	10.0	6	323	1938
P40-L1	CA50	82	6.3	7	25	175
	CA50	83	6.3	7	116	812
	CA50	84	10.0	6	127	762
P41-L2	CA50	85	6.3	28	25	700
	CA50	86	6.3	28	96	2688
	CA50	87	10.0	6	323	1938
P41-L1	CA50	88	6.3	7	25	175
	CA50	89	6.3	7	96	672
	CA50	90	10.0	6	127	762
P42-L2	CA50	91	6.3	28	25	700
	CA50	92	6.3	28	116	3248
	CA50	93	10.0	6	323	1938
P42-L1	CA50	94	6.3	8	25	200
	CA50	95	6.3	8	116	928
	CA50	96	10.0	6	132	792
P43-L2	CA50	97	6.3	28	25	700
	CA50	98	6.3	28	116	3248
	CA50	99	10.0	6	323	1938
P43-L1	CA50	100	6.3	8	25	200
	CA50	101	6.3	8	116	928
	CA50	102	10.0	6	132	792
P44-L2	CA50	103	6.3	28	25	700
	CA50	104	6.3	28	96	2688
	CA50	105	10.0	6	323	1938
P44-L1	CA50	106	6.3	7	25	175
	CA50	107	6.3	7	96	672
	CA50	108	10.0	6	127	762
P45-L2	CA50	109	6.3	28	25	700
	CA50	110	6.3	28	116	3248
	CA50	111	10.0	6	323	1938
P45-L1	CA50	112	6.3	7	25	175
	CA50	113	6.3	7	116	812
	CA50	114	10.0	6	127	762
P46-L2	CA50	115	6.3	28	25	700
	CA50	116	6.3	28	144	4032
	CA50	117	10.0	6	323	1938
P46-L1	CA50	118	6.3	8	25	200
	CA50	119	6.3	8	144	1152
	CA50	120	10.0	6	142	852
P47-L2	CA50	121	6.3	28	25	700
	CA50	122	6.3	28	144	4032
	CA50	123	10.0	6	323	1938
P47-L1	CA50	124	6.3	7	25	175
	CA50	125	6.3	7	144	1008
	CA50	126	10.0	6	127	762
P48-L2	CA50	127	6.3	28	25	700
	CA50	128	6.3	28	116	3248
	CA50	129	10.0	6	323	1938
P48-L1	CA50	130	6.3	7	25	175
	CA50	131	6.3	7	116	812
	CA50	132	10.0	6	127	762
P49-L2	CA50	133	6.3	28	25	700
	CA50	134	6.3	28	96	2688
	CA50	135	10.0	6	323	1938
P49-L1	CA50	136	6.3	7	25	175
	CA50	137	6.3	7	96	672
	CA50	138	10.0	6	127	762
P50-L2	CA50	139	6.3	28	25	700
	CA50	140	6.3	28	116	3248
	CA50	141	10.0	6	323	1938
P50-L1	CA50	142	6.3	8	25	200
	CA50	143	6.3	8	116	928
	CA50	144	10.0	6	132	792

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	1210.5	325.8
	10.0	652.2	442.3
PESO TOTAL (kg)			
CA50	768.2		

Volume de concreto (C-30) = 6.42 m³
Área de forma = 117.01 m²

REV.	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICADO
00	19/11/2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO: PABLO VINICIUS RIGO, ENG. CIVIL, 164680-0
PABLO VINICIUS RIGO:06875439 913 — Assinado de forma digital por PABLO VINICIUS RIGO:06875439913, Dados: 2024.12.03 15:55:17 -03'00'
CONTRATANTE:

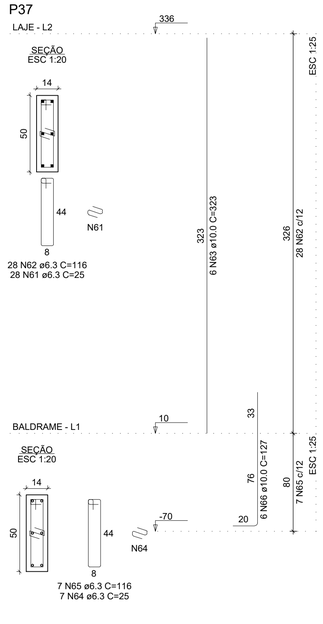
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO: PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES — ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro — ESTACA: ---
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG — FOLHA: 11-33

FORMATO A1 - 841x594mm

P37



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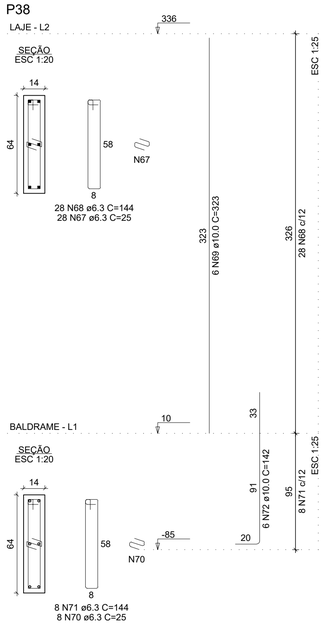
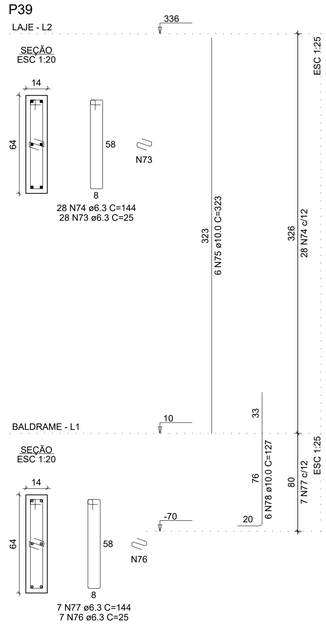


P39



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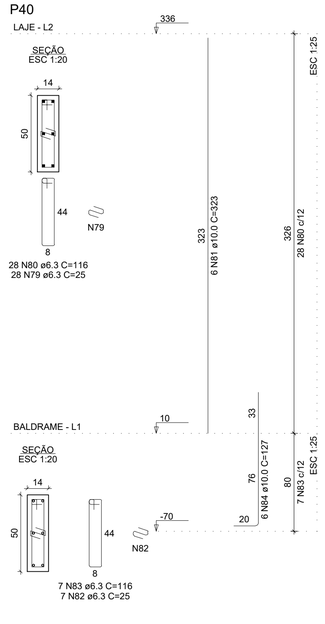

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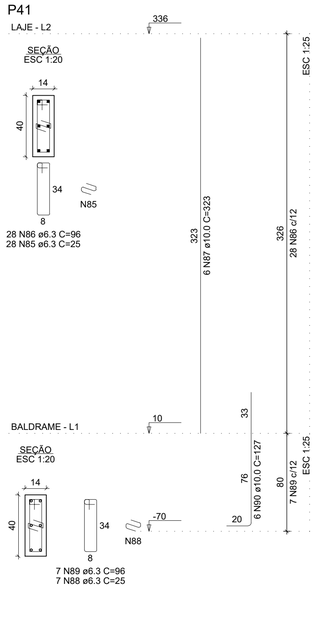

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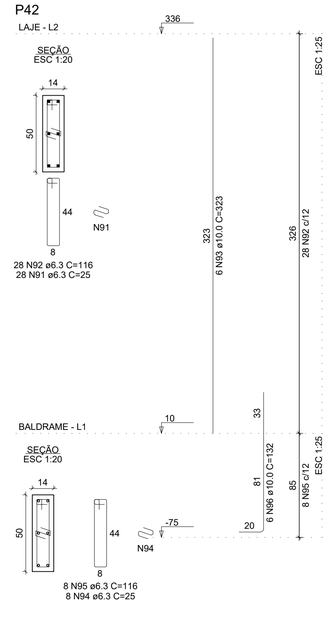

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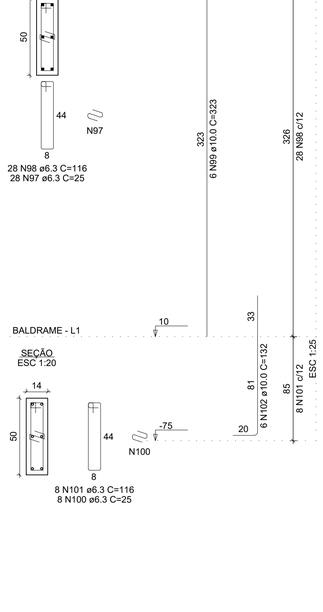

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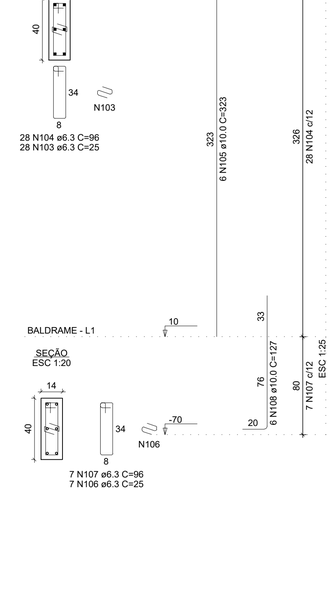

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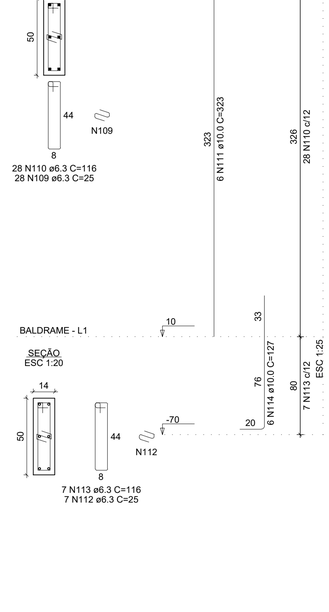

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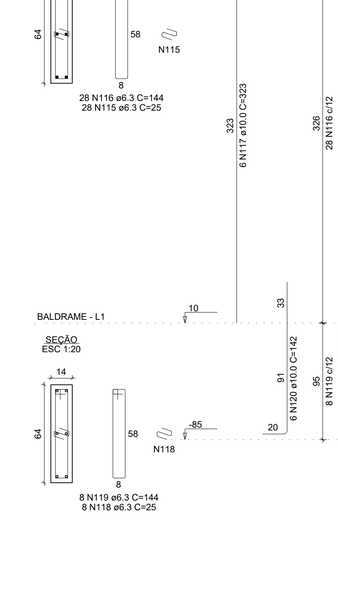

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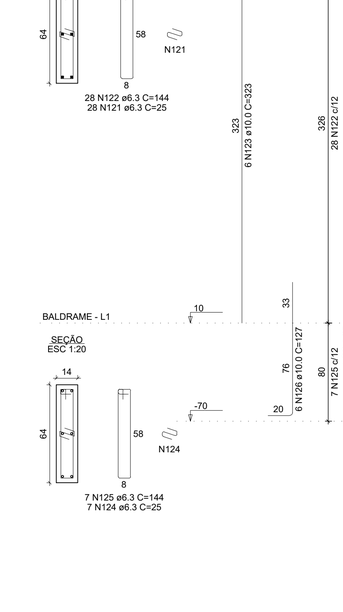

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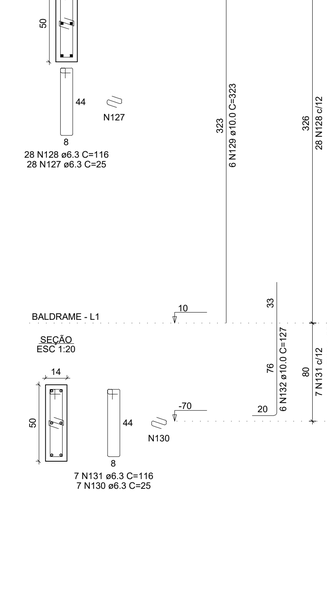


REV.	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	18-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINICIUS RIGO
ENG. CIVIL
154680-0
CONTRATANTE:

PABLO VINICIUS RIGO:068754399
Assinado de forma digital por PABLO VINICIUS RIGO:068754399913
Dados: 2024.12.03 15:56:31 -03'00'
13

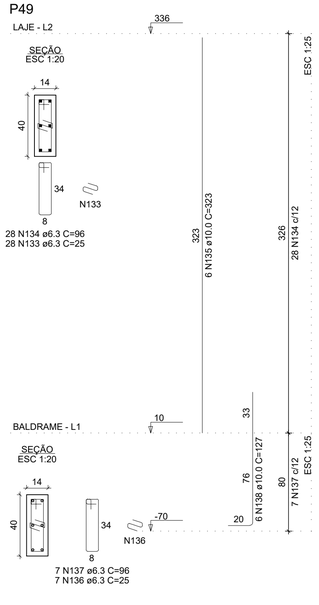
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: —
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 12-33

FORMATO A1 - 841x594mm

P49



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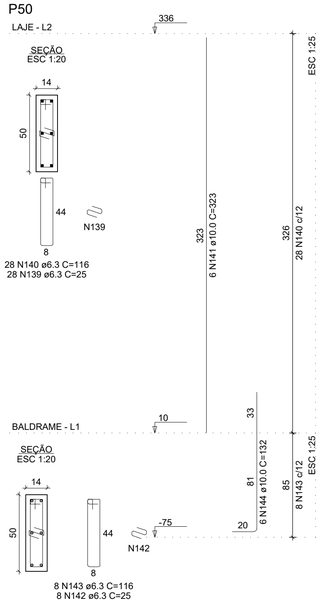

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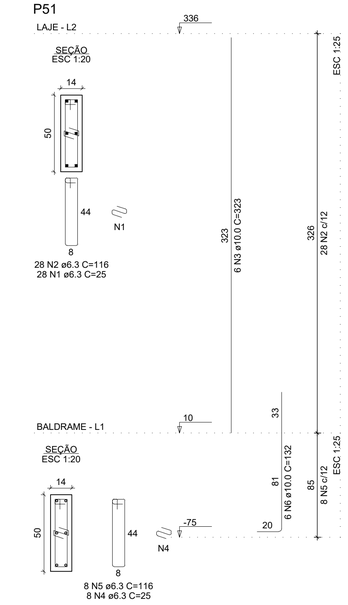

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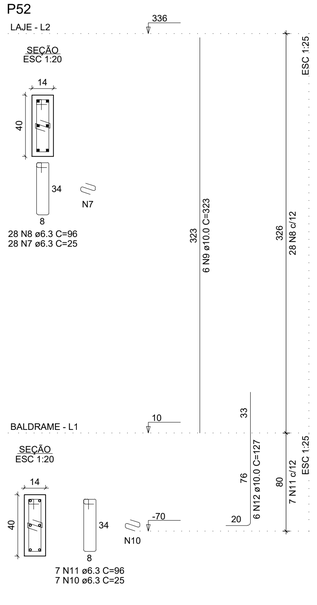

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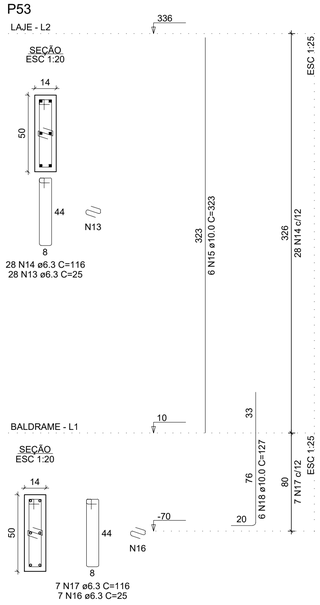
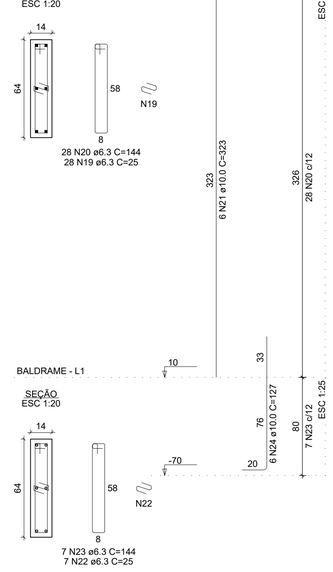
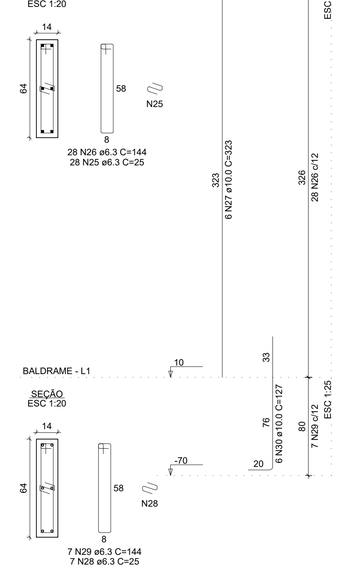


P54



P55



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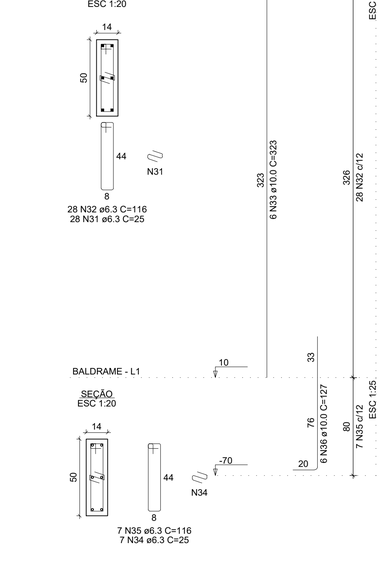

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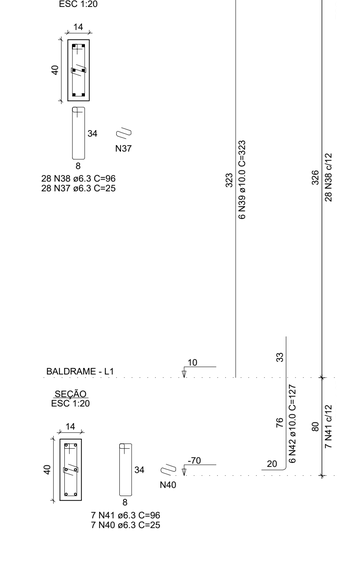

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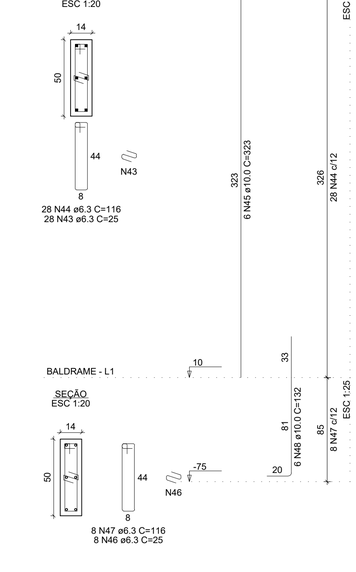
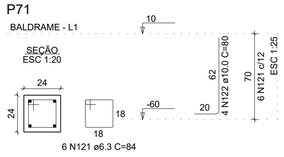


P71



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P51-L2	CA50	1	6.3	28	25	700
	CA50	2	6.3	28	116	3248
	CA50	3	10.0	6	323	1938
P51-L1	CA50	4	6.3	8	25	200
	CA50	5	6.3	8	116	928
	CA50	6	10.0	6	132	792
P52-L2	CA50	7	6.3	28	25	700
	CA50	8	6.3	28	96	2688
	CA50	9	10.0	6	323	1938
P52-L1	CA50	10	6.3	7	25	175
	CA50	11	6.3	7	96	672
	CA50	12	10.0	6	127	762
P53-L2	CA50	13	6.3	28	25	700
	CA50	14	6.3	28	116	3248
	CA50	15	10.0	6	323	1938
P53-L1	CA50	16	6.3	7	25	175
	CA50	17	6.3	7	116	812
	CA50	18	10.0	6	127	762
P54-L2	CA50	19	6.3	28	25	700
	CA50	20	6.3	28	144	4032
	CA50	21	10.0	6	323	1938
P54-L1	CA50	22	6.3	7	25	175
	CA50	23	6.3	7	144	1008
	CA50	24	10.0	6	127	762
P55-L2	CA50	25	6.3	28	25	700
	CA50	26	6.3	28	144	4032
	CA50	27	10.0	6	323	1938
P55-L1	CA50	28	6.3	7	25	175
	CA50	29	6.3	7	144	1008
	CA50	30	10.0	6	127	762
P56-L2	CA50	31	6.3	28	25	700
	CA50	32	6.3	28	116	3248
	CA50	33	10.0	6	323	1938
P56-L1	CA50	34	6.3	7	25	175
	CA50	35	6.3	7	116	812
	CA50	36	10.0	6	127	762
P57-L2	CA50	37	6.3	28	25	700
	CA50	38	6.3	28	96	2688
	CA50	39	10.0	6	323	1938
P57-L1	CA50	40	6.3	7	25	175
	CA50	41	6.3	7	96	672
	CA50	42	10.0	6	127	762
P58-L2	CA50	43	6.3	28	25	700
	CA50	44	6.3	28	116	3248
	CA50	45	10.0	6	323	1938
P58-L1	CA50	46	6.3	8	25	200
	CA50	47	6.3	8	116	928
	CA50	48	10.0	6	132	792
P59-L2	CA50	49	6.3	28	25	700
	CA50	50	6.3	28	116	3248
	CA50	51	10.0	6	323	1938
P59-L1	CA50	52	6.3	8	25	200
	CA50	53	6.3	8	116	928
	CA50	54	10.0	6	132	792
P60-L2	CA50	55	6.3	28	25	700
	CA50	56	6.3	28	96	2688
	CA50	57	10.0	6	323	1938
P60-L1	CA50	58	6.3	7	25	175
	CA50	59	6.3	7	96	672
	CA50	60	10.0	6	127	762
P61-L2	CA50	61	6.3	28	25	700
	CA50	62	6.3	28	116	3248
	CA50	63	10.0	6	323	1938
P61-L1	CA50	64	6.3	7	25	175
	CA50	65	6.3	7	116	812
	CA50	66	10.0	6	127	762
P62-L2	CA50	67	6.3	28	25	700
	CA50	68	6.3	28	144	4032
	CA50	69	10.0	6	323	1938
P62-L1	CA50	70	6.3	7	25	175
	CA50	71	6.3	7	144	1008
	CA50	72	10.0	6	127	762
P63-L2	CA50	73	6.3	28	25	700
	CA50	74	6.3	28	96	2688
	CA50	75	10.0	6	323	1938
P63-L1	CA50	76	6.3	7	25	175
	CA50	77	6.3	7	96	672
	CA50	78	10.0	6	127	762
P64-L2	CA50	79	6.3	28	25	700
	CA50	80	6.3	28	96	2688
	CA50	81	10.0	6	323	1938
P64-L1	CA50	82	6.3	7	25	175
	CA50	83	6.3	7	96	672
	CA50	84	10.0	6	127	762
P65-L2	CA50	85	6.3	28	25	700
	CA50	86	6.3	28	116	3248
	CA50	87	10.0	6	323	1938
P65-L1	CA50	88	6.3	8	25	200
	CA50	89	6.3	8	116	928
	CA50	90	10.0	6	132	792
P66-L2	CA50	91	6.3	28	25	700
	CA50	92	6.3	28	96	2688
	CA50	93	10.0	6	323	1938
P66-L1	CA50	94	6.3	7	25	175
	CA50	95	6.3	7	96	672
	CA50	96	10.0	6	127	762
P67-L2	CA50	97	6.3	28	25	700
	CA50	98	6.3	28	96	2688
	CA50	99	10.0	6	323	1938
P67-L1	CA50	100	6.3	7	25	175
	CA50	101	6.3	7	96	672
	CA50	102	10.0	6	127	762
P68-L2	CA50	103	6.3	28	25	700
	CA50	104	6.3	28	116	3248
	CA50	105	10.0	6	323	1938
P68-L1	CA50	106	6.3	8	25	200
	CA50	107	6.3	8	116	928
	CA50	108	10.0	6	132	792
P69-L2	CA50	109	6.3	28	25	700
	CA50	110	6.3	28	96	2688
	CA50	111	10.0	6	323	1938
P69-L1	CA50	112	6.3	7	25	175
	CA50	113	6.3	7	96	672
	CA50	114	10.0	6	127	762
P70-L2	CA50	115	6.3	28	25	700
	CA50	116	6.3	28	116	3248
	CA50	117	10.0	6	323	1938
P70-L1	CA50	118	6.3	8	25	200
	CA50	119	6.3	8	116	928
	CA50	120	10.0	6	132	792
P71-L1	CA50	121	6.3	6	84	504
	CA50	122	10.0	4	80	320
P72-L2	CA50	123	6.3	28	86	2408
	CA50	124	10.0	4	323	1292
P72-L1	CA50	125	6.3	7	86	602
	CA50	126	10.0	4	127	508
P73-L2	CA50	127	6.3	28	25	700
	CA50	128	6.3	28	116	3248
	CA50	129	10.0	6	323	1938
P73-L1	CA50	130	6.3	8	25	200
	CA50	131	6.3	8	116	928
	CA50	132	10.0	6	132	792
P74-L2	CA50	133	6.3	28	25	700
	CA50	134	6.3	28	116	3248
	CA50	135	10.0	6	323	1938
P74-L1	CA50	136	6.3	8	25	200
	CA50	137	6.3	8	116	928
	CA50	138	10.0	6	132	792
P75-L2	CA50	139	6.3	28	25	700
	CA50	140	6.3	28	116	3248
	CA50	141	10.0	6	323	1938
P75-L1	CA50	142	6.3	8	25	200
	CA50	143	6.3	8	116	928
	CA50	144	10.0	6	132	792

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	1156.3	311.2
	10.0	644.9	437.4
PESO TOTAL (kg)			
CA50	748.6		

Volume de concreto (C-30) = 6.06 m³
Área de forma = 111.86 m²

REV.	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	19-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO: PABLO VINICIUS RIGO
ENG. CIVIL
164680-0
CONTRATANTE:

PABLO VINICIUS RIGO:06875439913 Assinado de forma digital por PABLO VINICIUS RIGO:06875439913 Dados: 2024.12.03 15:58:08 -03'00'

ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO: PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO

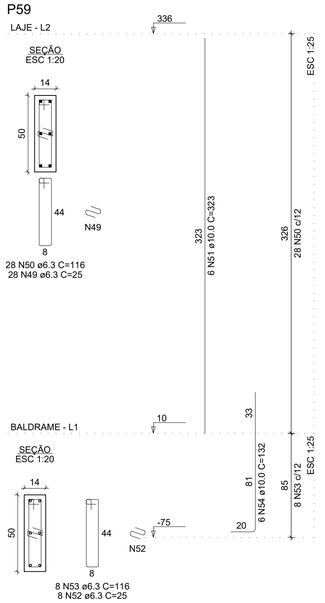
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES
ESCALA: INDICADA

ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: ---

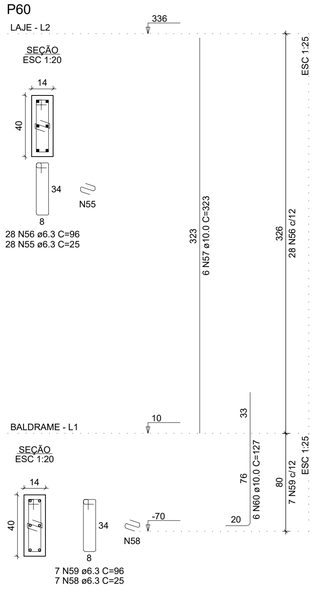
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 13-33

FORMATO A1 - 841x594mm

P59



P60



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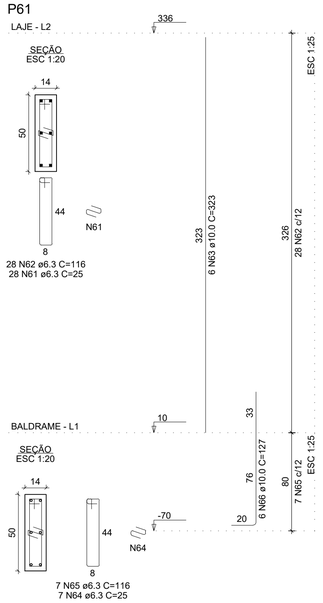
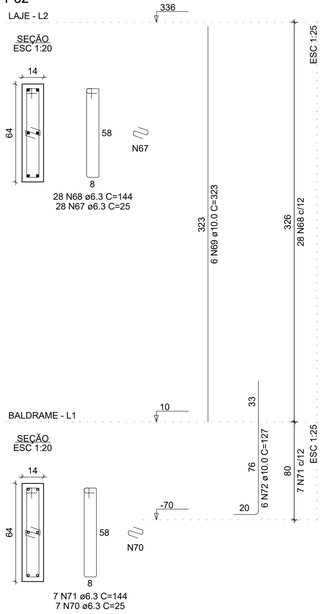
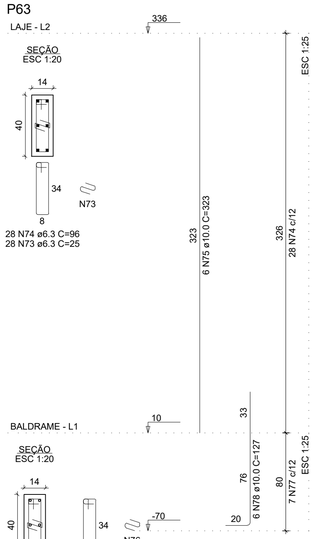


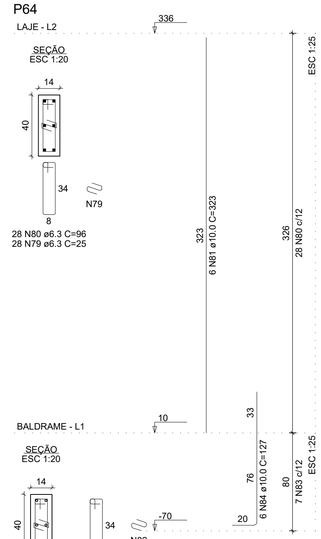
P62



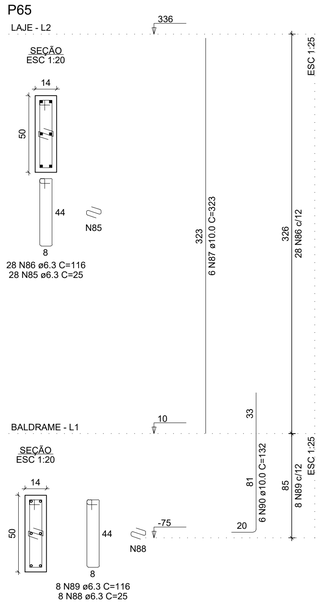
P63



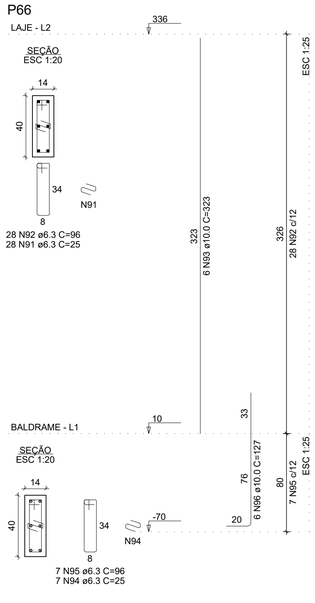
P64



P65



P66



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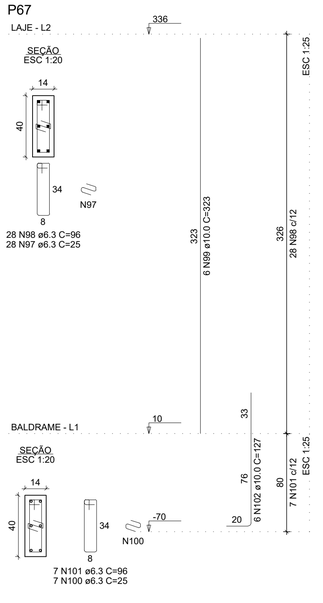

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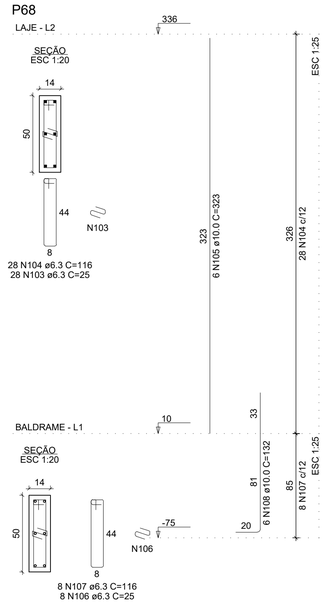

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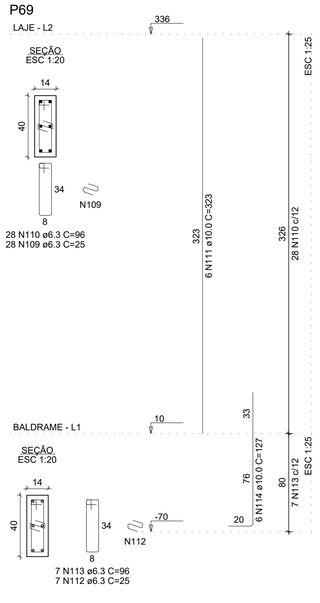

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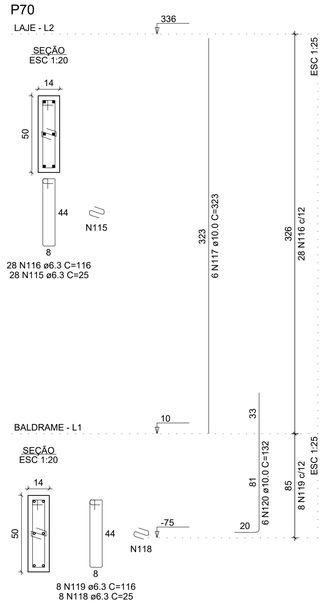


REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	18/11/2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
164880-D

PABLO VINICIUS RIGO:068754399
13
Assinado de forma digital por PABLO VINICIUS RIGO:06875439913
Dados: 2024.12.03 15:58:50 -03'00'

CONTRATANTE:

ELABORAÇÃO: Amvali

CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO: PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO

CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES

ESCALA: INDICADA

ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro

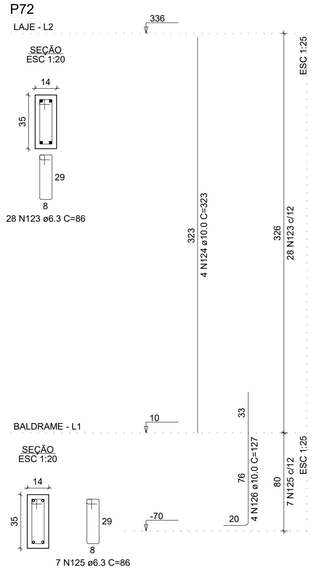
ESTACA: ---

CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG

FOLHA: 14-33

FORMATO A1 - 841x594mm

P72



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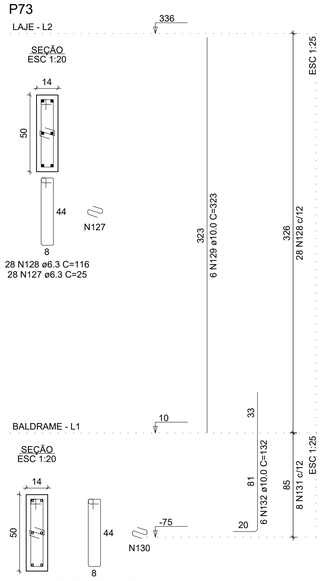

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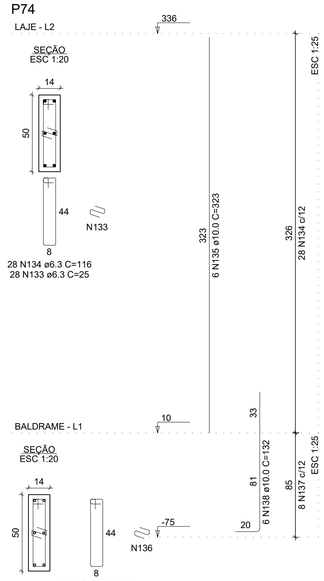

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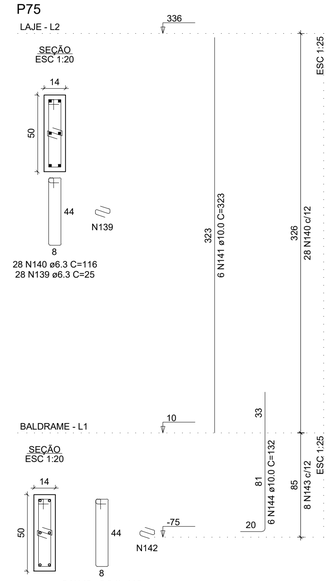

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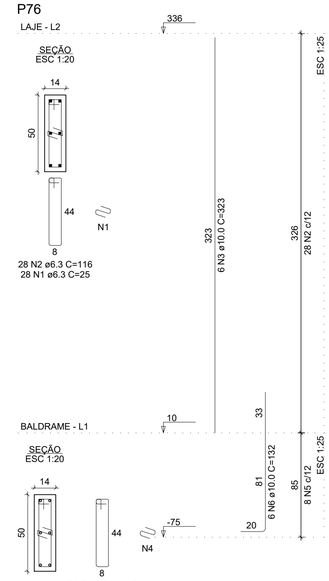
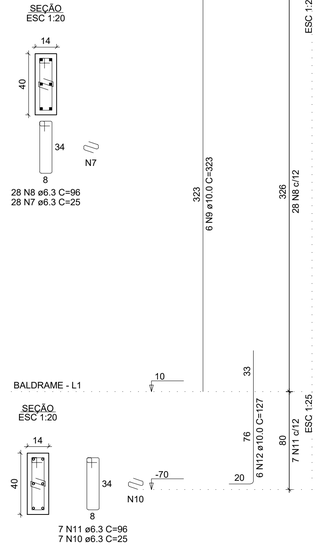


P77



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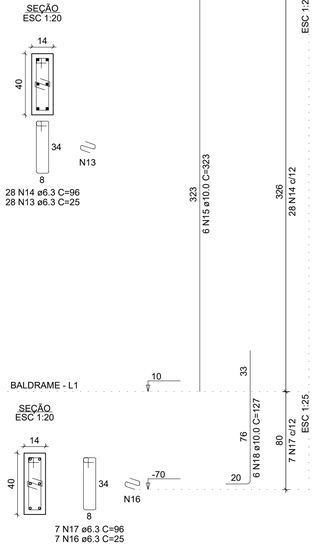

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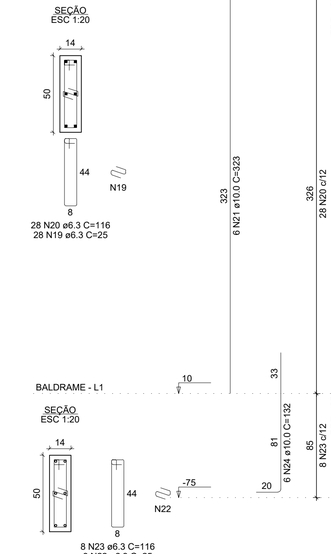

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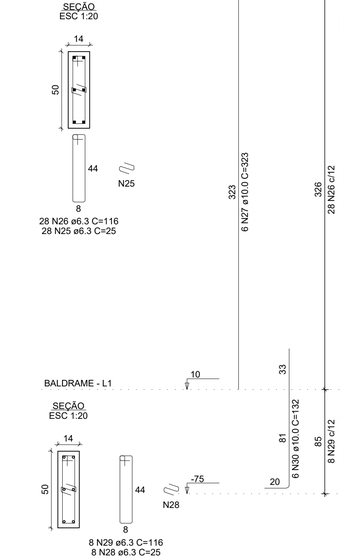

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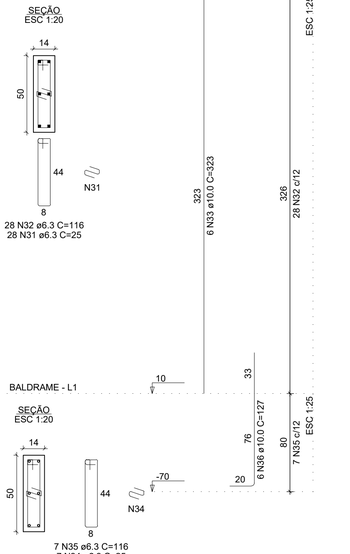


RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P76-L2	CA50	1	6.3	28	25	700
	CA50	2	6.3	28	116	3248
	CA50	3	10.0	6	323	1938
P76-L1	CA50	4	6.3	8	25	200
	CA50	5	6.3	8	116	928
	CA50	6	10.0	6	132	792
P77-L2	CA50	7	6.3	28	25	700
	CA50	8	6.3	28	96	2688
	CA50	9	10.0	6	323	1938
P77-L1	CA50	10	6.3	7	25	175
	CA50	11	6.3	7	96	672
	CA50	12	10.0	6	127	762
P78-L2	CA50	13	6.3	28	25	700
	CA50	14	6.3	28	96	2688
	CA50	15	10.0	6	323	1938
P78-L1	CA50	16	6.3	7	25	175
	CA50	17	6.3	7	96	672
	CA50	18	10.0	6	127	762
P79-L2	CA50	19	6.3	28	25	700
	CA50	20	6.3	28	116	3248
	CA50	21	10.0	6	323	1938
P79-L1	CA50	22	6.3	8	25	200
	CA50	23	6.3	8	116	928
	CA50	24	10.0	6	132	792
P80-L2	CA50	25	6.3	28	25	700
	CA50	26	6.3	28	116	3248
	CA50	27	10.0	6	323	1938
P80-L1	CA50	28	6.3	8	25	200
	CA50	29	6.3	8	116	928
	CA50	30	10.0	6	132	792
P81-L2	CA50	31	6.3	28	25	700
	CA50	32	6.3	28	116	3248
	CA50	33	10.0	6	323	1938
P81-L1	CA50	34	6.3	7	25	175
	CA50	35	6.3	7	116	812
	CA50	36	10.0	6	127	762
P82-L2	CA50	37	6.3	28	25	700
	CA50	38	6.3	28	116	3248
	CA50	39	10.0	6	323	1938
P82-L1	CA50	40	6.3	7	25	175
	CA50	41	6.3	7	116	812
	CA50	42	10.0	6	127	762
P83-L2	CA50	43	6.3	28	25	700
	CA50	44	6.3	28	116	3248
	CA50	45	10.0	6	323	1938
P83-L1	CA50	46	6.3	8	25	200
	CA50	47	6.3	8	116	928
	CA50	48	10.0	6	132	792
P84-L2	CA50	49	6.3	28	25	700
	CA50	50	6.3	28	116	3248
	CA50	51	10.0	6	323	1938
P84-L1	CA50	52	6.3	7	25	175
	CA50	53	6.3	7	116	812
	CA50	54	10.0	6	127	762
P85-L2	CA50	55	6.3	28	25	700
	CA50	56	6.3	28	116	3248
	CA50	57	10.0	6	323	1938
P85-L1	CA50	58	6.3	7	25	175
	CA50	59	6.3	7	116	812
	CA50	60	10.0	6	127	762
P86-L2	CA50	61	6.3	28	25	700
	CA50	62	6.3	28	116	3248
	CA50	63	10.0	6	323	1938
P86-L1	CA50	64	6.3	8	25	200
	CA50	65	6.3	8	116	928
	CA50	66	10.0	6	132	792
P87-L2	CA50	67	6.3	28	25	700
	CA50	68	6.3	28	96	2688
	CA50	69	10.0	6	323	1938
P87-L1	CA50	70	6.3	7	25	175
	CA50	71	6.3	7	96	672
	CA50	72	10.0	6	127	762
P88-L2	CA50	73	6.3	28	25	700
	CA50	74	6.3	28	116	3248
	CA50	75	10.0	6	323	1938
P88-L1	CA50	76	6.3	8	25	200
	CA50	77	6.3	8	116	928
	CA50	78	10.0	6	132	792
P89-L2	CA50	79	6.3	28	25	700
	CA50	80	6.3	28	116	3248
	CA50	81	10.0	6	323	1938
P89-L1	CA50	82	6.3	8	25	200
	CA50	83	6.3	8	116	928
	CA50	84	10.0	6	132	792
P90-L2	CA50	85	6.3	28	25	700
	CA50	86	6.3	28	96	2688
	CA50	87	10.0	6	323	1938
P90-L1	CA50	88	6.3	7	25	175
	CA50	89	6.3	7	96	672
	CA50	90	10.0	6	127	762
P91-L2	CA50	91	6.3	28	25	700
	CA50	92	6.3	28	116	3248
	CA50	93	10.0	6	323	1938
P91-L1	CA50	94	6.3	8	25	200
	CA50	95	6.3	8	116	928
	CA50	96	10.0	6	132	792
P92-L1	CA50	97	6.3	6	84	504
	CA50	98	10.0	4	80	320
P93-L2	CA50	99	6.3	28	25	700
	CA50	100	6.3	28	96	2688
	CA50	101	10.0	6	323	1938
P93-L1	CA50	102	6.3	7	25	175
	CA50	103	6.3	7	96	672
	CA50	104	10.0	6	127	762
P94-L2	CA50	105	6.3	28	25	700
	CA50	106	6.3	28	136	3808
	CA50	107	10.0	6	323	1938
P94-L1	CA50	108	6.3	7	25	175
	CA50	109	6.3	7	136	952
	CA50	110	10.0	6	127	762
P95-L2	CA50	111	6.3	28	25	700
	CA50	112	6.3	28	136	3808
	CA50	113	10.0	6	323	1938
P95-L1	CA50	114	6.3	7	25	175
	CA50	115	6.3	7	136	952
	CA50	116	10.0	6	127	762
P96-L2	CA50	117	6.3	28	25	700
	CA50	118	6.3	28	116	3248
	CA50	119	10.0	6	323	1938
P96-L1	CA50	120	6.3	8	25	200
	CA50	121	6.3	8	116	928
	CA50	122	10.0	6	132	792
P97-L2	CA50	123	6.3	28	25	700
	CA50	124	6.3	28	116	3248
	CA50	125	10.0	6	323	1938
P97-L1	CA50	126	6.3	8	25	200
	CA50	127	6.3	8	116	928
	CA50	128	10.0	6	132	792
P98-L2	CA50	129	6.3	28	25	700
	CA50	130	6.3	28	116	3248
	CA50	131	10.0	6	323	1938
P98-L1	CA50	132	6.3	7	25	175
	CA50	133	6.3	7	116	812
	CA50	134	10.0	6	127	762
P99-L2	CA50	135	6.3	28	25	700
	CA50	136	6.3	28	116	3248
	CA50	137	10.0	6	323	1938
P99-L1	CA50	138	6.3	7	25	175
	CA50	139	6.3	7	116	812
	CA50	140	10.0	6	127	762
P100-L2	CA50	141	6.3	28	25	700
	CA50	142	6.3	28	116	3248
	CA50	143	10.0	6	323	1938
P100-L1	CA50	144	6.3	8	25	200
	CA50	145	6.3	8	116	928
	CA50	146	10.0	6	132	792

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	1184	318.7
	10.0	654.5	443.9
PESO TOTAL (kg)			
CA50	762.6		

Volume do concreto (C-30) = 6.18 m3

REV.	DATA	DESENHO	EMISSÃO INICIAL / ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	19-11-2024	PABLO		AMVALI

RESPONSÁVEL TÉCNICO: PABLO VINICIUS RIGO ENG. CIVIL 164693-0
PABLO VINICIUS RIGO:068754399 13
Assinado de forma digital por PABLO VINICIUS RIGO:06875439913 Dados: 2024.12.03 15:59:36 -03'00'
CONTRATANTE:

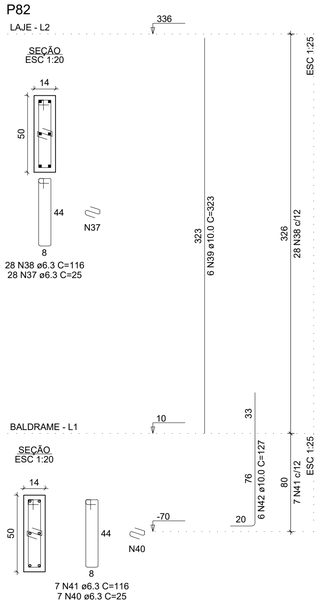
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO: PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES — ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro — ESTACA: —
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG — FOLHA: 15-33

FORMATO A1 - 841x594mm

P82



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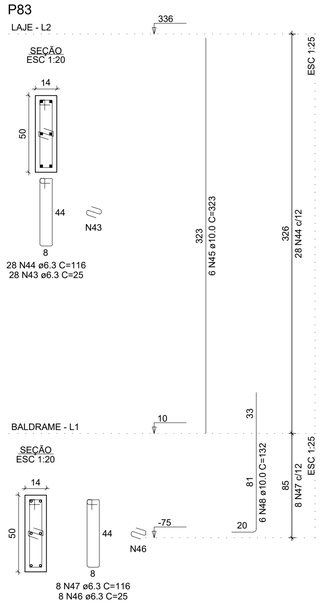

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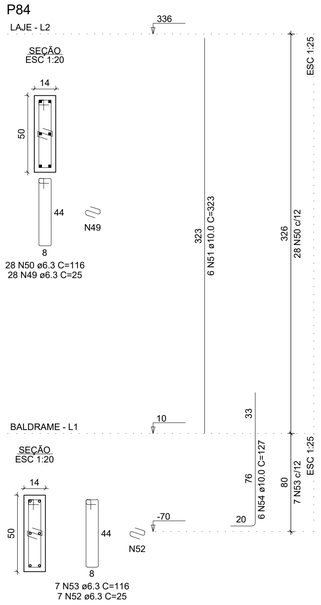

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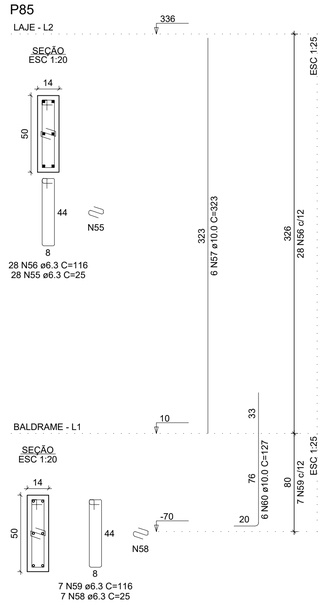

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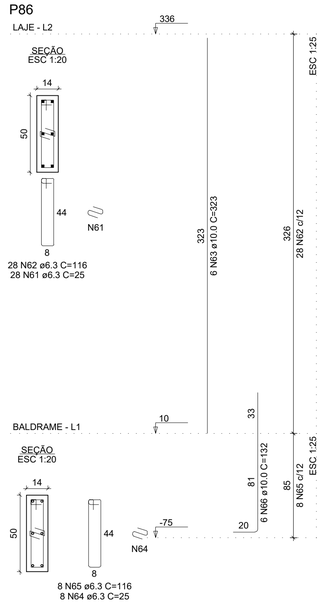

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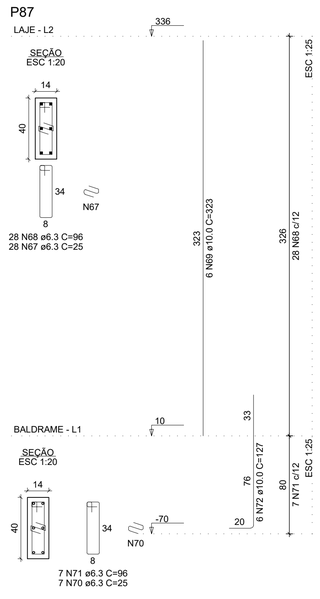

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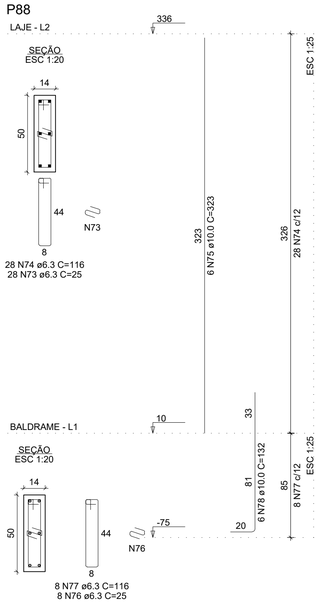

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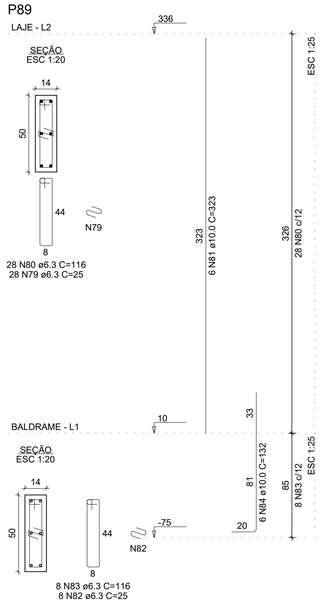

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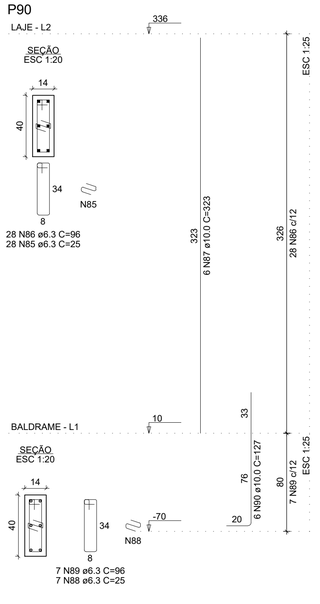

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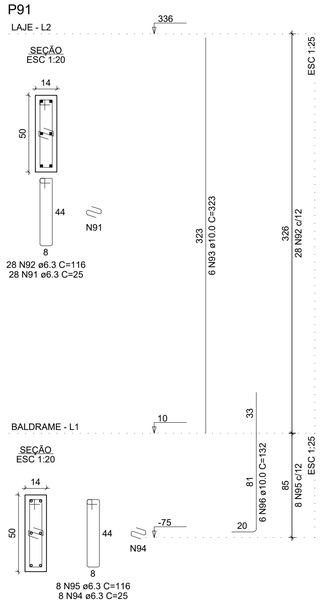

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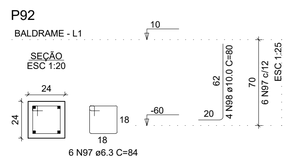
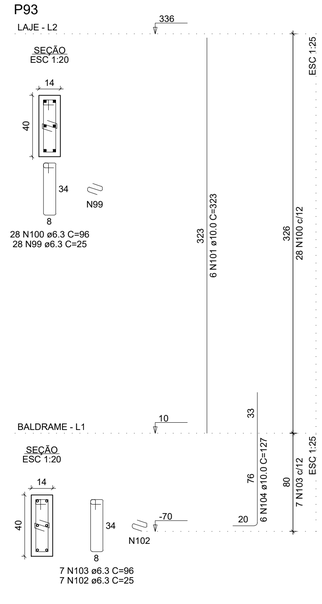
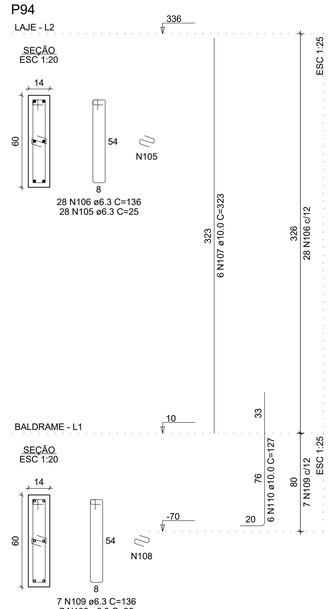


P93



P94



REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	19-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO: PABLO VINÍCIUS RIGO ENG. CIVIL 164680-0
CONTRATANTE:
PABLO VINICIUS RIGO:06875439913 — Assinado de forma digital por PABLO VINICIUS RIGO:06875439913 Dados: 2024.12.03 16:00:06 -03'00'

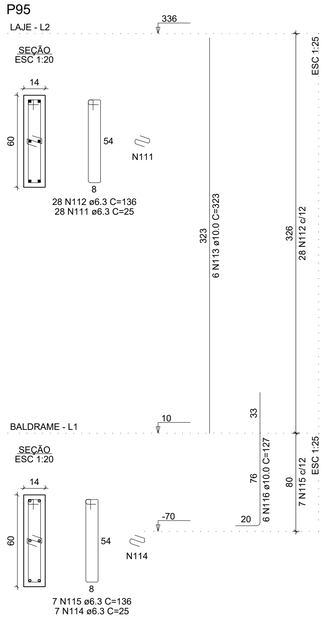
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO: PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: ---
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 16-33

FORMATO A1 - 841x594mm

P95



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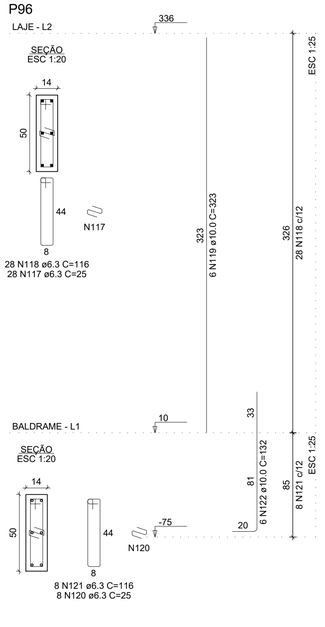

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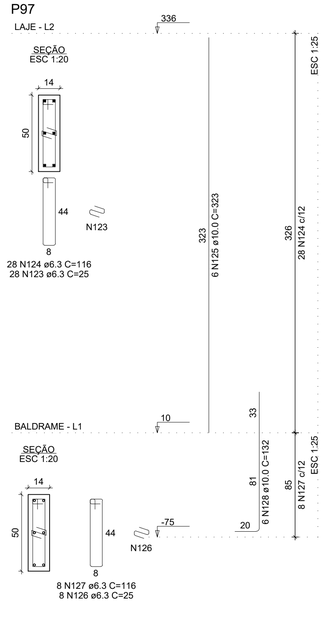

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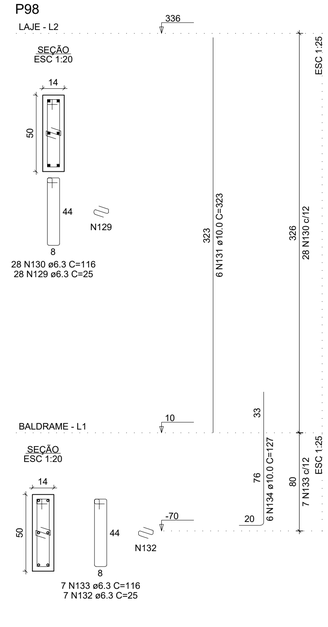

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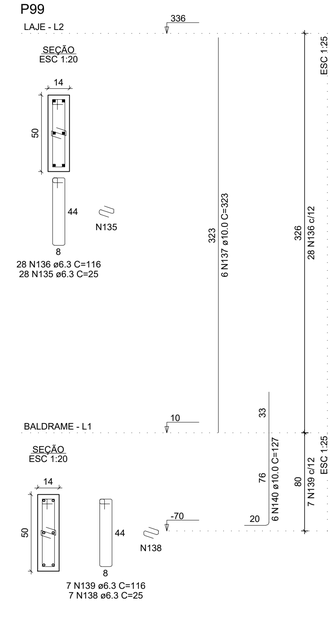

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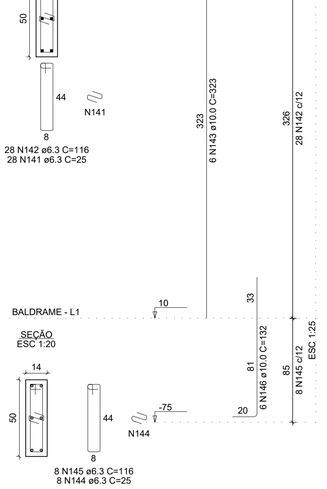

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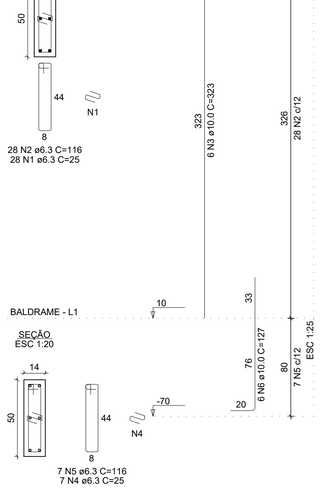

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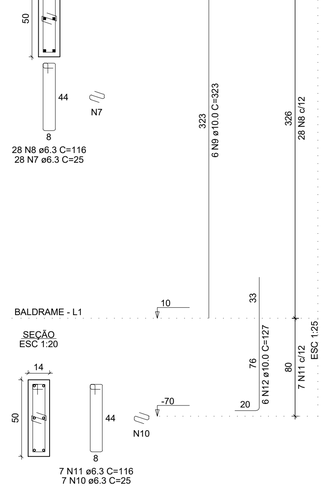

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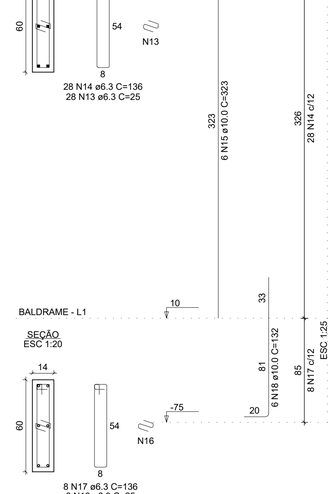

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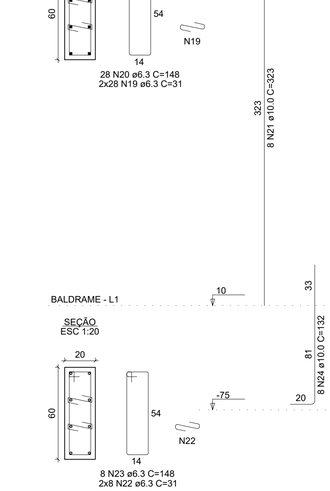


RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P101-L2	CA50	1	6.3	28	25	700
	CA50	2	6.3	28	116	3248
	CA50	3	10.0	6	323	1938
P101-L1	CA50	4	6.3	7	25	175
	CA50	5	6.3	7	116	812
	CA50	6	10.0	6	127	762
P102-L2	CA50	7	6.3	28	25	700
	CA50	8	6.3	28	116	3248
	CA50	9	10.0	6	323	1938
P102-L1	CA50	10	6.3	7	25	175
	CA50	11	6.3	7	116	812
	CA50	12	10.0	6	127	762
P103-L2	CA50	13	6.3	28	25	700
	CA50	14	6.3	28	136	3808
	CA50	15	10.0	6	323	1938
P103-L1	CA50	16	6.3	8	25	200
	CA50	17	6.3	8	136	1088
	CA50	18	10.0	6	132	792
P104-L2	CA50	19	6.3	56	31	1736
	CA50	20	6.3	28	148	4144
	CA50	21	10.0	8	323	2584
P104-L1	CA50	22	6.3	16	31	496
	CA50	23	6.3	8	148	1184
	CA50	24	10.0	8	132	1056
P105-L2	CA50	25	6.3	28	25	700
	CA50	26	6.3	28	116	3248
	CA50	27	10.0	6	323	1938
P105-L1	CA50	28	6.3	8	25	200
	CA50	29	6.3	8	116	928
	CA50	30	10.0	6	132	792
P106-L2	CA50	31	6.3	28	25	700
	CA50	32	6.3	28	96	2688
	CA50	33	10.0	6	323	1938
P106-L1	CA50	34	6.3	7	25	175
	CA50	35	6.3	7	96	672
	CA50	36	10.0	6	127	762
P107-L2	CA50	37	6.3	28	25	700
	CA50	38	6.3	28	116	3248
	CA50	39	10.0	6	323	1938
P107-L1	CA50	40	6.3	8	25	200
	CA50	41	6.3	8	116	928
	CA50	42	10.0	6	132	792
P108-L1	CA50	43	6.3	6	84	504
	CA50	44	10.0	4	80	320
P109-L2	CA50	45	6.3	28	86	2408
	CA50	46	10.0	4	323	1292
P109-L1	CA50	47	6.3	7	86	602
	CA50	48	10.0	4	127	508
P110-L2	CA50	49	6.3	28	25	700
	CA50	50	6.3	28	96	2688
	CA50	51	10.0	6	323	1938
P110-L1	CA50	52	6.3	7	25	175
	CA50	53	6.3	7	96	672
	CA50	54	10.0	6	127	762
P111-L2	CA50	55	6.3	28	25	700
	CA50	56	6.3	28	96	2688
	CA50	57	10.0	6	323	1938
P111-L1	CA50	58	6.3	7	25	175
	CA50	59	6.3	7	96	672
	CA50	60	10.0	6	127	762
P112-L2	CA50	61	6.3	28	25	700
	CA50	62	6.3	28	116	3248
	CA50	63	10.0	6	323	1938
P112-L1	CA50	64	6.3	8	25	200
	CA50	65	6.3	8	116	928
	CA50	66	10.0	6	132	792
P113-L2	CA50	67	6.3	28	25	700
	CA50	68	6.3	28	116	3248
	CA50	69	10.0	6	323	1938
P113-L1	CA50	70	6.3	8	25	200
	CA50	71	6.3	8	116	928
	CA50	72	10.0	6	132	792
P114-L2	CA50	73	6.3	28	25	700
	CA50	74	6.3	28	116	3248
	CA50	75	10.0	6	323	1938
P114-L1	CA50	76	6.3	7	25	175
	CA50	77	6.3	7	116	812
	CA50	78	10.0	6	127	762
P115-L2	CA50	79	6.3	28	25	700
	CA50	80	6.3	28	96	2688
	CA50	81	10.0	6	323	1938
P115-L1	CA50	82	6.3	7	25	175
	CA50	83	6.3	7	96	672
	CA50	84	10.0	6	127	762
P116-L2	CA50	85	6.3	28	25	700
	CA50	86	6.3	28	96	2688
	CA50	87	10.0	6	323	1938
P116-L1	CA50	88	6.3	7	25	175
	CA50	89	6.3	7	96	672
	CA50	90	10.0	6	127	762
P117-L2	CA50	91	6.3	28	25	700
	CA50	92	6.3	28	116	3248
	CA50	93	10.0	6	323	1938
P117-L1	CA50	94	6.3	8	25	200
	CA50	95	6.3	8	116	928
	CA50	96	10.0	6	132	792
P118-L2	CA50	97	6.3	28	25	700
	CA50	98	6.3	28	116	3248
	CA50	99	10.0	6	323	1938
P118-L1	CA50	100	6.3	7	25	175
	CA50	101	6.3	7	116	812
	CA50	102	10.0	6	127	762
P119-L2	CA50	103	6.3	28	25	700
	CA50	104	6.3	28	96	2688
	CA50	105	10.0	6	323	1938
P119-L1	CA50	106	6.3	7	25	175
	CA50	107	6.3	7	96	672
	CA50	108	10.0	6	127	762
P120-L2	CA50	109	6.3	28	25	700
	CA50	110	6.3	28	96	2688
	CA50	111	10.0	6	323	1938
P120-L1	CA50	112	6.3	7	25	175
	CA50	113	6.3	7	96	672
	CA50	114	10.0	6	127	762
P121-L2	CA50	115	6.3	28	25	700
	CA50	116	6.3	28	144	4032
	CA50	117	10.0	6	323	1938
P121-L1	CA50	118	6.3	7	25	175
	CA50	119	6.3	7	144	1008
	CA50	120	10.0	6	127	762
P122-L2	CA50	121	6.3	28	25	700
	CA50	122	6.3	28	116	3248
	CA50	123	10.0	6	323	1938
P122-L1	CA50	124	6.3	7	25	175
	CA50	125	6.3	7	116	812
	CA50	126	10.0	6	127	762
P123-L2	CA50	127	6.3	28	25	700
	CA50	128	6.3	28	96	2688
	CA50	129	10.0	6	323	1938
P123-L1	CA50	130	6.3	7	25	175
	CA50	131	6.3	7	96	672
	CA50	132	10.0	6	127	762
P124-L2	CA50	133	6.3	28	25	700
	CA50	134	6.3	28	116	3248
	CA50	135	10.0	6	323	1938
P124-L1	CA50	136	6.3	7	25	175
	CA50	137	6.3	7	116	812
	CA50	138	10.0	6	127	762
P125-L2	CA50	139	6.3	28	25	700
	CA50	140	6.3	28	116	3248
	CA50	141	10.0	6	323	1938
P125-L1	CA50	142	6.3	7	25	175
	CA50	143	6.3	7	116	812
	CA50	144	10.0	6	127	762

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	1165.9	313.8
	10.0	653.4	443.1
PESO TOTAL (kg)			
CA50	757		

Volume de concreto (C-30) = 6.15 m³
Área de forma = 111.71 m²

REV	DATA	RESPONSÁVEL	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	19/11/2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO: PABLO VINICIUS RIGO ENG. CIVIL 164680-0
CONTRATANTE:
PABLO VINICIUS RIGO:06875439913 — Assinado de forma digital por PABLO VINICIUS RIGO:06875439913 Dados: 2024.12.03 16:00:37 -03'00'

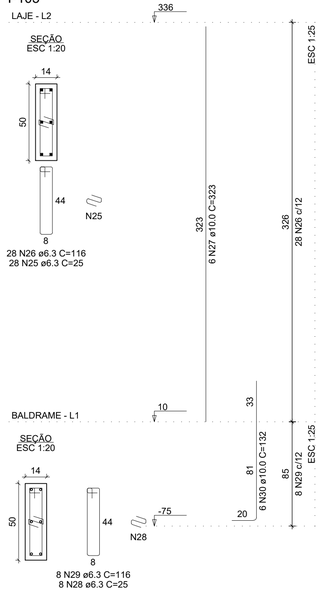
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO: PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: ---
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 17-33

FORMATO A1 - 841x594mm

P105



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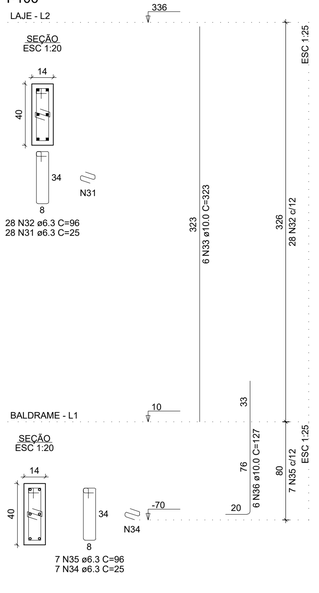

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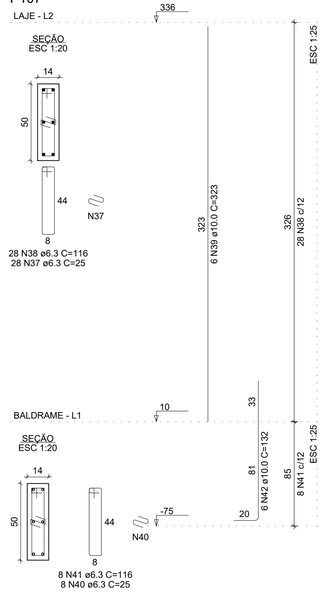

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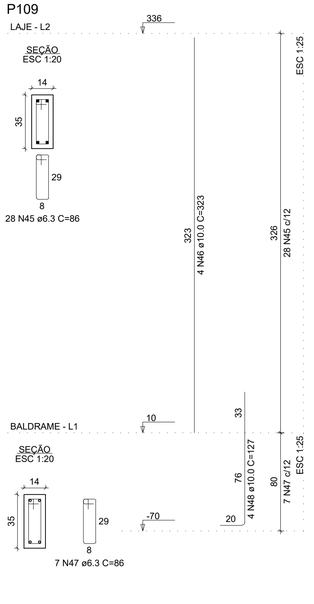

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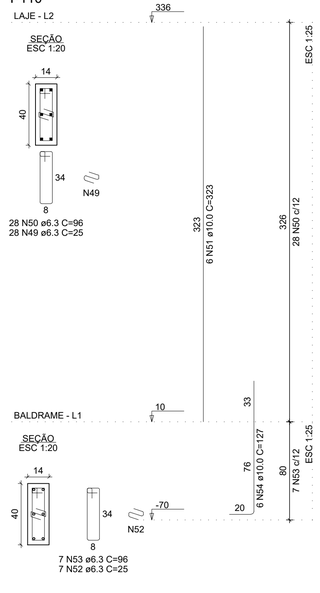

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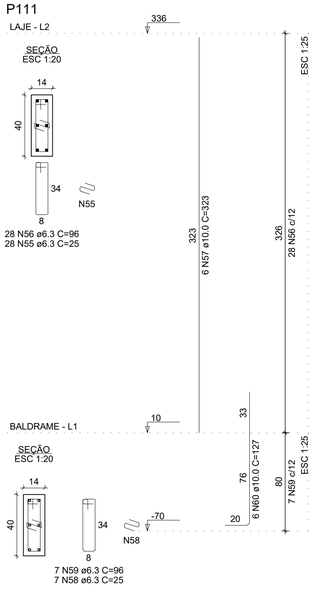

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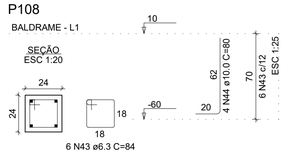

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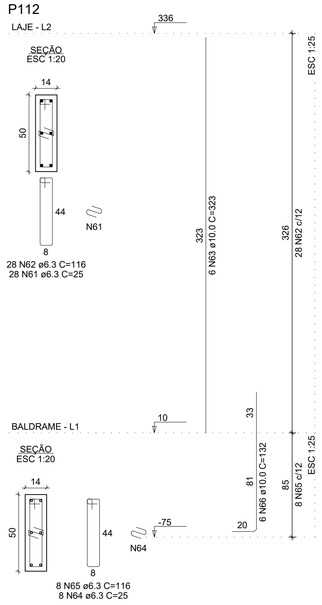

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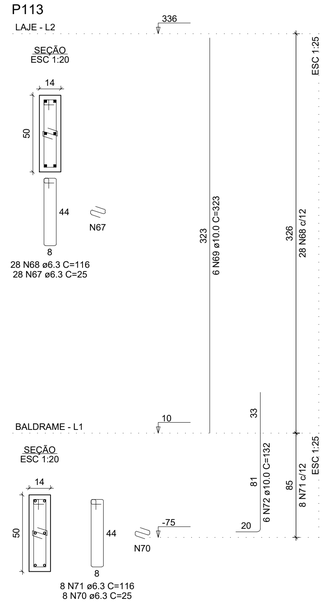

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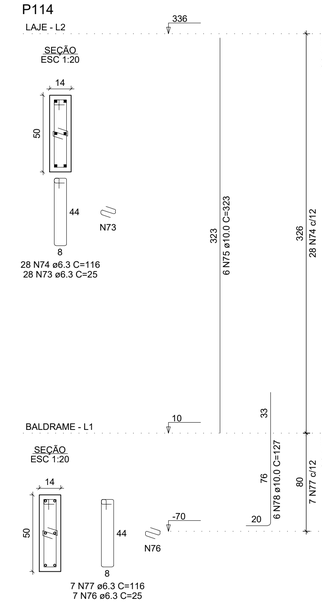

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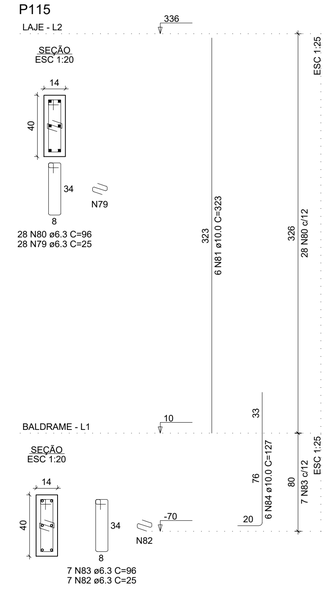

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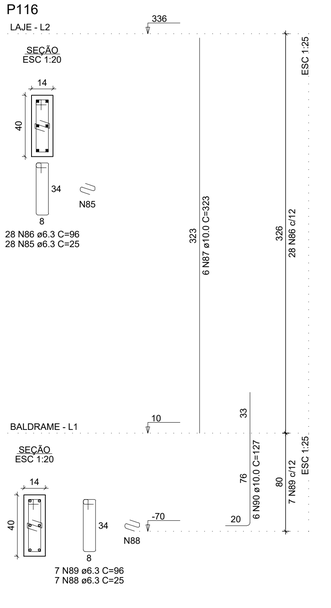

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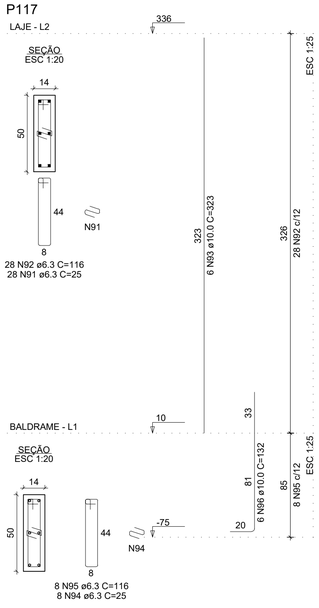


REV.	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	18-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
154680-0
CONTRATANTE:

PABLO VINICIUS RIGO:06875439913
Assinado de forma digital por PABLO VINICIUS RIGO:06875439913
Dados: 2024.12.03 16:01:12 -03'00'
913

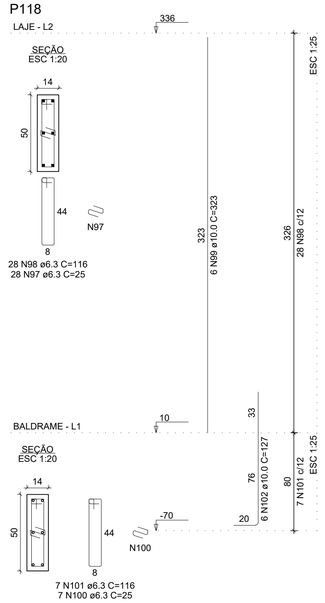
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: —
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 18-33

FORMATO A1 - 841x594mm

P118



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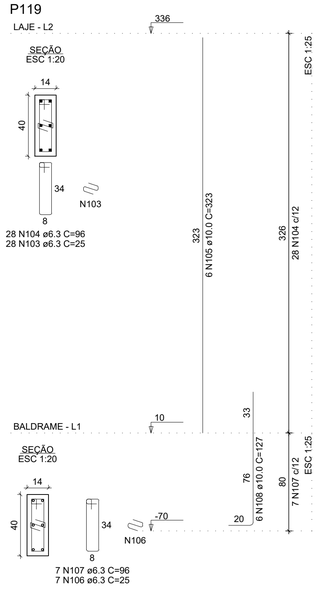

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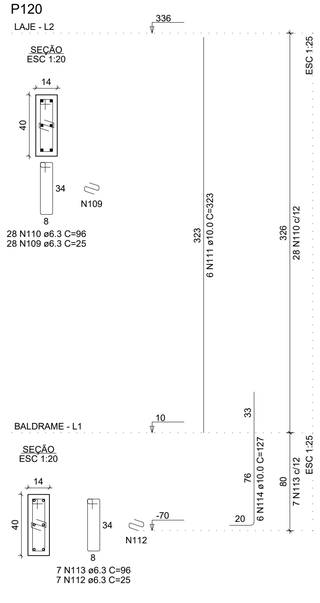

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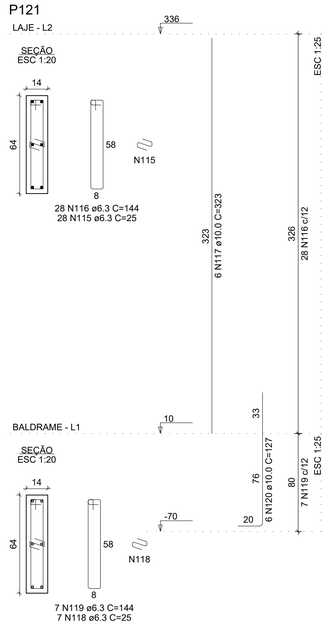
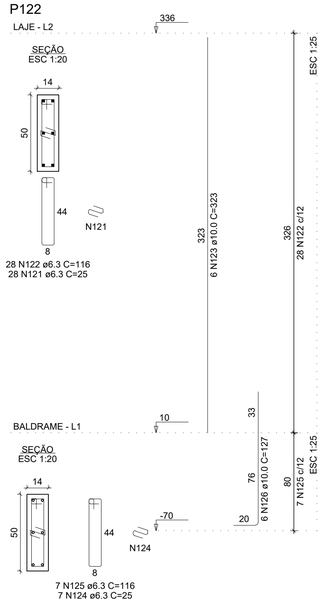
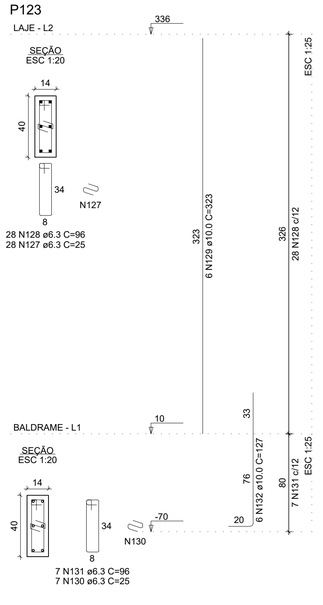


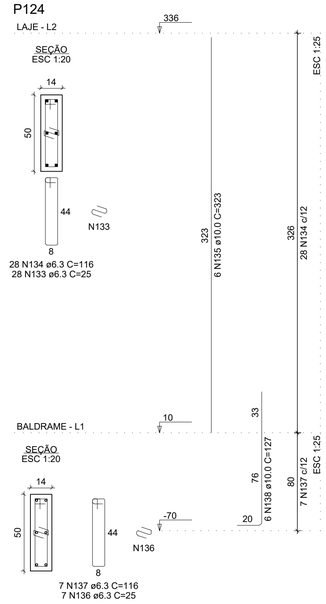
P122



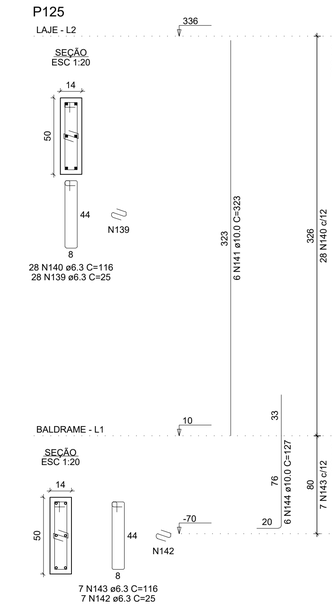
P123



P124



P125



REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	19-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
164693-0
CONTRATANTE:

PABLO VINICIUS RIGO:06875439913
Assinado de forma digital por PABLO VINICIUS RIGO:06875439913
Dados: 2024.12.03 16:01:58 -03'00'

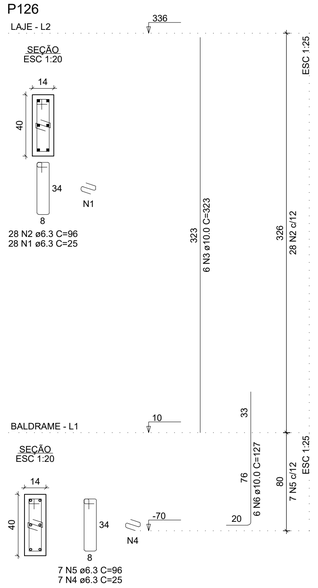
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

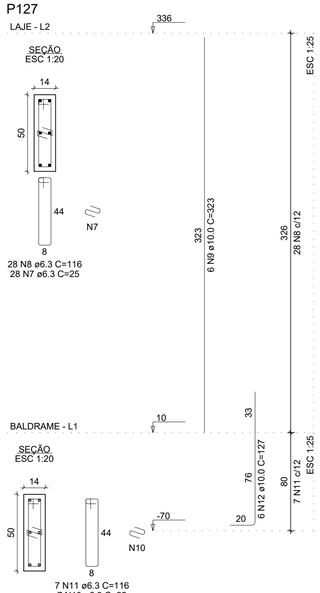
PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: —
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 19-33

FORMATO A1 - 841x594mm

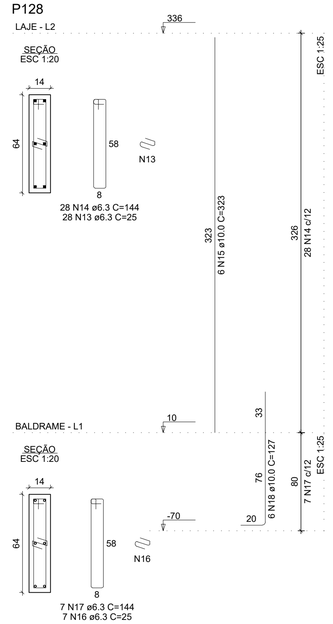
P126



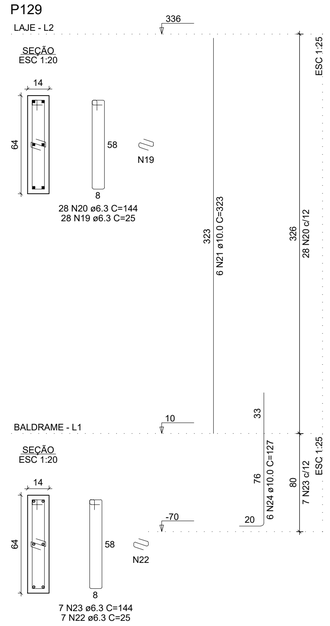
P127



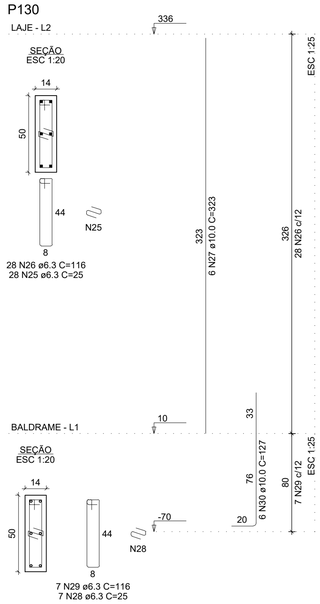
P128



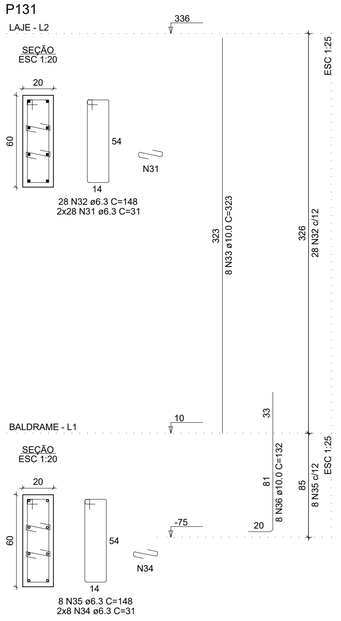
P129



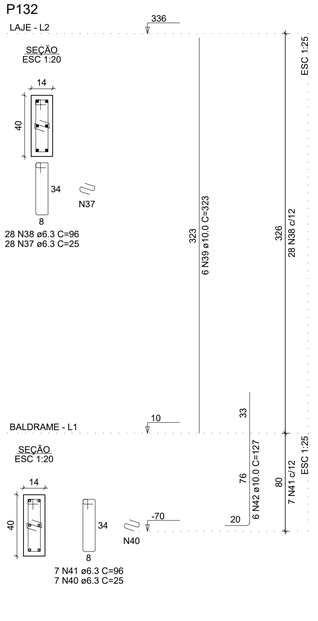
P130



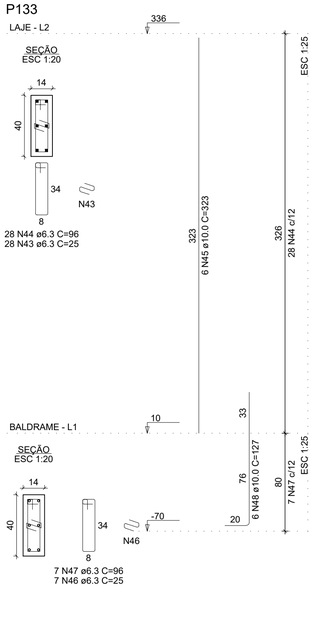
P131



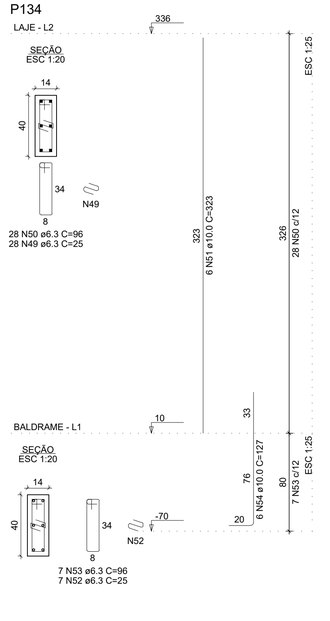
P132



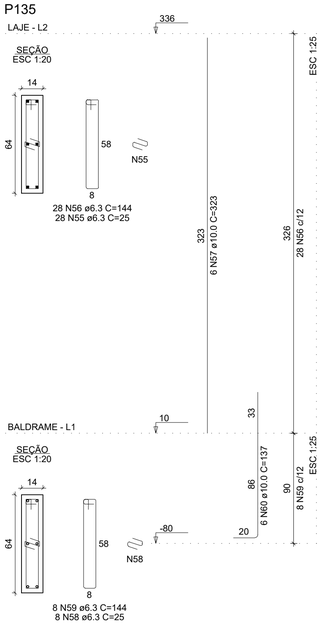
P133



P134



P135



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P126-L2	CA50	1	6.3	28	25	700
	CA50	2	6.3	28	96	2688
	CA50	3	10.0	6	323	1938
P126-L1	CA50	4	6.3	7	25	175
	CA50	5	6.3	7	96	672
	CA50	6	10.0	6	127	762
P127-L2	CA50	7	6.3	28	25	700
	CA50	8	6.3	28	116	3248
	CA50	9	10.0	6	323	1938
P127-L1	CA50	10	6.3	7	25	175
	CA50	11	6.3	7	116	812
	CA50	12	10.0	6	127	762
P128-L2	CA50	13	6.3	28	25	700
	CA50	14	6.3	28	144	4032
	CA50	15	10.0	6	323	1938
P128-L1	CA50	16	6.3	7	25	175
	CA50	17	6.3	7	144	1008
	CA50	18	10.0	6	127	762
P129-L2	CA50	19	6.3	28	25	700
	CA50	20	6.3	28	144	4032
	CA50	21	10.0	6	323	1938
P129-L1	CA50	22	6.3	7	25	175
	CA50	23	6.3	7	144	1008
	CA50	24	10.0	6	127	762
P130-L2	CA50	25	6.3	28	25	700
	CA50	26	6.3	28	116	3248
	CA50	27	10.0	6	323	1938
P130-L1	CA50	28	6.3	7	25	175
	CA50	29	6.3	7	116	812
	CA50	30	10.0	6	127	762
P131-L2	CA50	31	6.3	56	31	1736
	CA50	32	6.3	28	148	4144
	CA50	33	10.0	8	323	2584
P131-L1	CA50	34	6.3	16	31	496
	CA50	35	6.3	8	148	1184
	CA50	36	10.0	8	132	1056
P132-L2	CA50	37	6.3	28	25	700
	CA50	38	6.3	28	96	2688
	CA50	39	10.0	6	323	1938
P132-L1	CA50	40	6.3	7	25	175
	CA50	41	6.3	7	96	672
	CA50	42	10.0	6	127	762
P133-L2	CA50	43	6.3	28	25	700
	CA50	44	6.3	28	96	2688
	CA50	45	10.0	6	323	1938
P133-L1	CA50	46	6.3	7	25	175
	CA50	47	6.3	7	96	672
	CA50	48	10.0	6	127	762
P134-L2	CA50	49	6.3	28	25	700
	CA50	50	6.3	28	96	2688
	CA50	51	10.0	6	323	1938
P134-L1	CA50	52	6.3	7	25	175
	CA50	53	6.3	7	96	672
	CA50	54	10.0	6	127	762
P135-L2	CA50	55	6.3	28	25	700
	CA50	56	6.3	28	144	4032
	CA50	57	10.0	6	323	1938
P135-L1	CA50	58	6.3	8	25	200
	CA50	59	6.3	8	144	1152
	CA50	60	10.0	6	137	822
P136-L2	CA50	61	6.3	28	25	700
	CA50	62	6.3	28	96	2688
	CA50	63	10.0	6	323	1938
P136-L1	CA50	64	6.3	7	25	175
	CA50	65	6.3	7	96	672
	CA50	66	10.0	6	127	762
P137-L2	CA50	67	6.3	28	25	700
	CA50	68	6.3	28	96	2688
	CA50	69	10.0	6	323	1938
P137-L1	CA50	70	6.3	7	25	175
	CA50	71	6.3	7	96	672
	CA50	72	10.0	6	127	762
P138-L2	CA50	73	6.3	28	25	700
	CA50	74	6.3	28	144	4032
	CA50	75	10.0	6	323	1938
P138-L1	CA50	76	6.3	8	25	200
	CA50	77	6.3	8	144	1152
	CA50	78	10.0	6	142	852
P139-L2	CA50	79	6.3	28	25	700
	CA50	80	6.3	28	116	3248
	CA50	81	10.0	6	323	1938
P139-L1	CA50	82	6.3	7	25	175
	CA50	83	6.3	7	116	812
	CA50	84	10.0	6	127	762
P140-L2	CA50	85	6.3	28	25	700
	CA50	86	6.3	28	96	2688
	CA50	87	10.0	6	323	1938
P140-L1	CA50	88	6.3	7	25	175
	CA50	89	6.3	7	96	672
	CA50	90	10.0	6	127	762
P141-L2	CA50	91	6.3	28	25	700
	CA50	92	6.3	28	116	3248
	CA50	93	10.0	6	323	1938
P141-L1	CA50	94	6.3	8	25	200
	CA50	95	6.3	8	116	928
	CA50	96	10.0	6	132	792
P142-L2	CA50	97	6.3	28	25	700
	CA50	98	6.3	28	116	3248
	CA50	99	10.0	6	323	1938
P142-L1	CA50	100	6.3	8	25	200
	CA50	101	6.3	8	116	928
	CA50	102	10.0	6	132	792
P143-L2	CA50	103	6.3	28	25	700
	CA50	104	6.3	28	96	2688
	CA50	105	10.0	6	323	1938
P143-L1	CA50	106	6.3	7	25	175
	CA50	107	6.3	7	96	672
	CA50	108	10.0	6	127	762
P144-L2	CA50	109	6.3	28	25	700
	CA50	110	6.3	28	116	3248
	CA50	111	10.0	6	323	1938
P144-L1	CA50	112	6.3	7	25	175
	CA50	113	6.3	7	116	812
	CA50	114	10.0	6	127	762
P145-L2	CA50	115	6.3	28	25	700
	CA50	116	6.3	28	144	4032
	CA50	117	10.0	6	323	1938
P145-L1	CA50	118	6.3	7	25	175
	CA50	119	6.3	7	144	1008
	CA50	120	10.0	6	127	762
P146-L2	CA50	121	6.3	28	25	700
	CA50	122	6.3	28	144	4032
	CA50	123	10.0	6	323	1938
P146-L1	CA50	124	6.3	7	25	175
	CA50	125	6.3	7	144	1008
	CA50	126	10.0	6	127	762
P147-L2	CA50	127	6.3	28	25	700
	CA50	128	6.3	28	116	3248
	CA50	129	10.0	6	323	1938
P147-L1	CA50	130	6.3	7	25	175
	CA50	131	6.3	7	116	812
	CA50	132	10.0	6	127	762
P148-L2	CA50	133	6.3	28	25	700
	CA50	134	6.3	28	116	3248
	CA50	135	10.0	6	323	1938
P148-L1	CA50	136	6.3	8	25	200
	CA50	137	6.3	8	116	928
	CA50	138	10.0	6	132	792
P149-L2	CA50	139	6.3	28	25	700
	CA50	140	6.3	28	96	2688
	CA50	141	10.0	6	323	1938
P149-L1	CA50	142	6.3	7	25	175
	CA50	143	6.3	7	96	672
	CA50	144	10.0	6	127	762

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	1214.1	326.8
	10.0	659.8	447.5
PESO TOTAL (kg)			
CA50	774.3		

Volume de concreto (C-30) = 6.47 m³
Área de forma = 116.26 m²

REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	18-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
154680-0
CONTRATANTE:

PABLO VINICIUS RIGO:068754399 — Assinado de forma digital por PABLO VINICIUS RIGO:06875439913 Dados: 2024.12.03 16:02:41 -03'00'

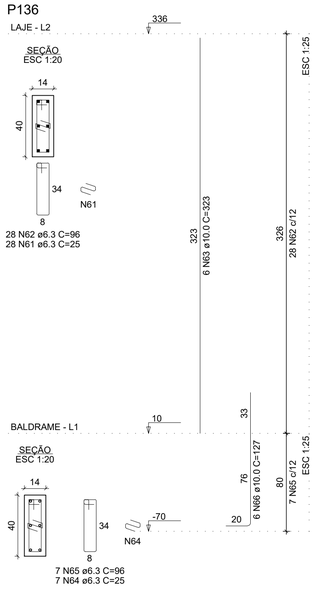
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

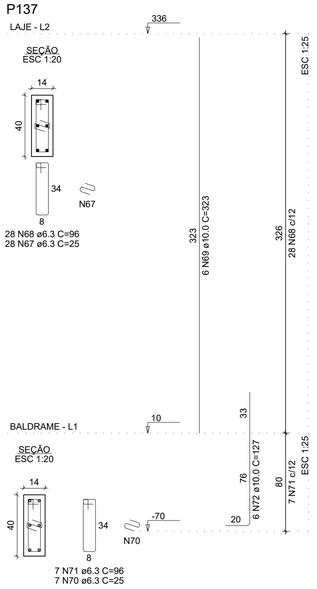
PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: —
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 20-33

FORMATO A1 - 841x594mm

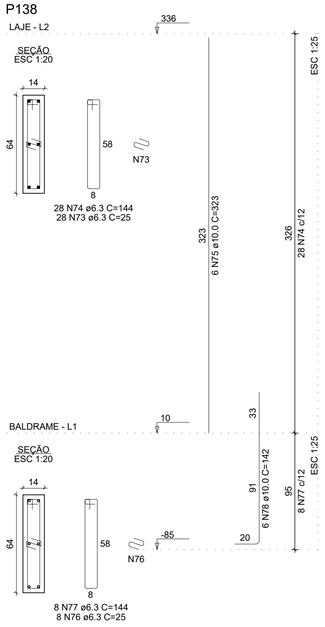
P136



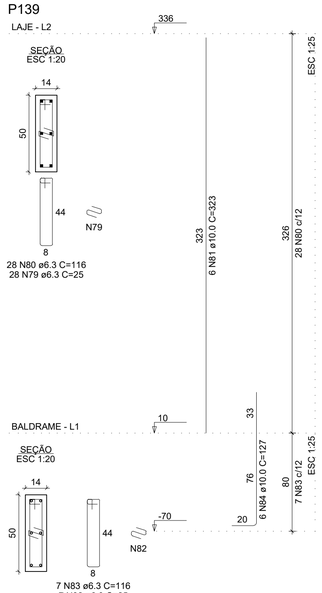
P137



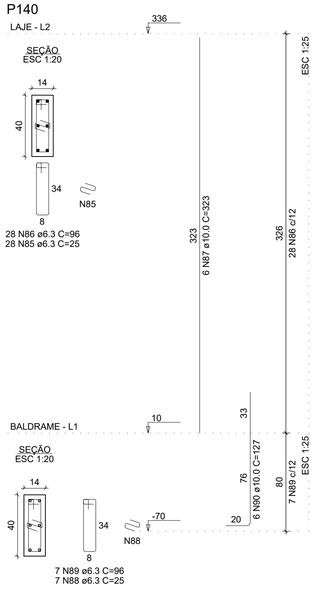
P138



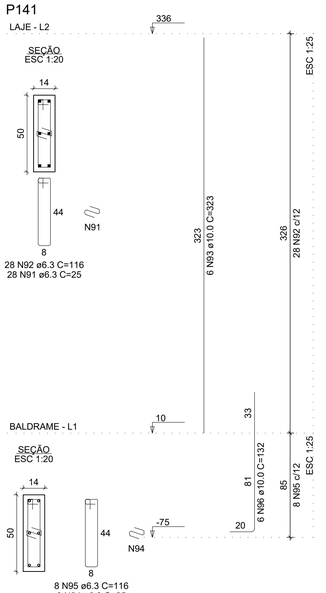
P139



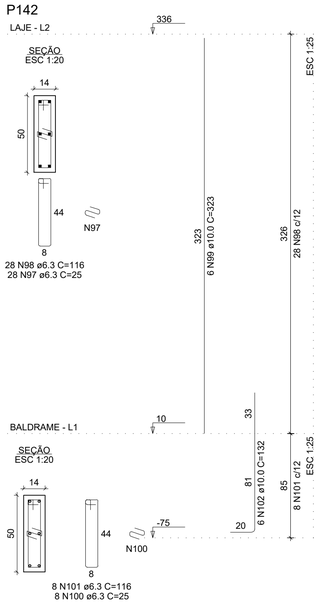
P140



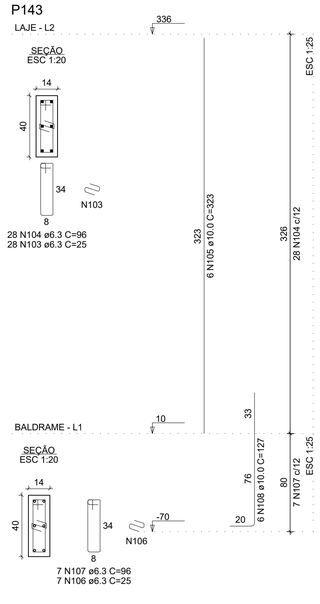
P141



P142



P143



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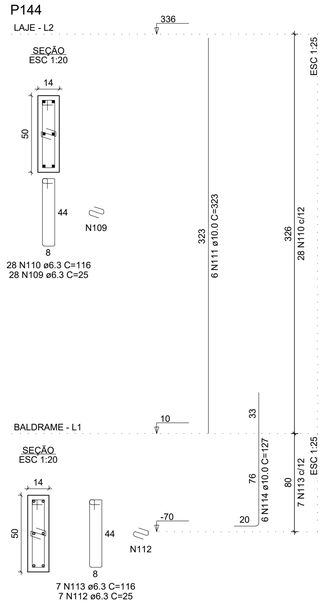
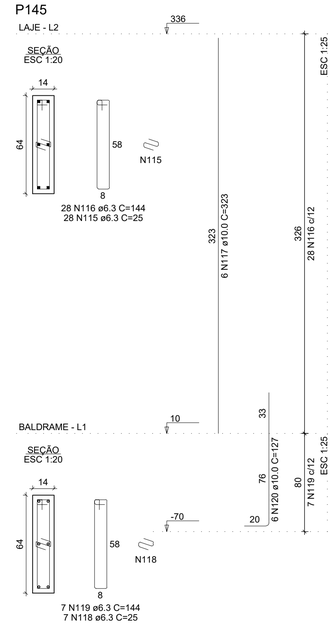
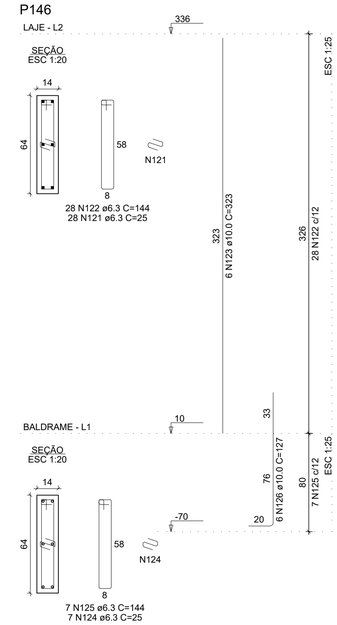


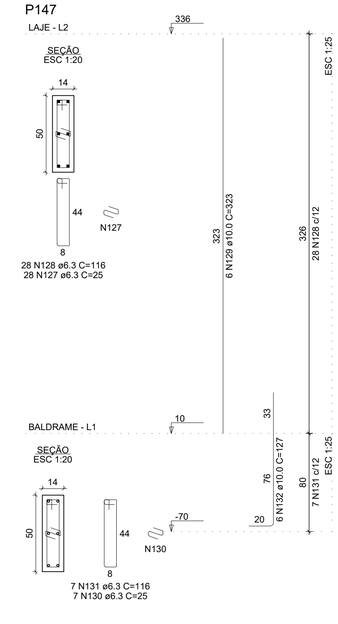
P145



P146



P147



REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	18-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
154680-0
CONTRATANTE:

PABLO VINICIUS RIGO:06875439
913
Assinado de forma digital por PABLO VINICIUS RIGO:06875439913
Dados: 2024.12.03 16:03:18 -03'00'

ELABORAÇÃO: Amvali

CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO

CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES

ESCALA: INDICADA

ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro

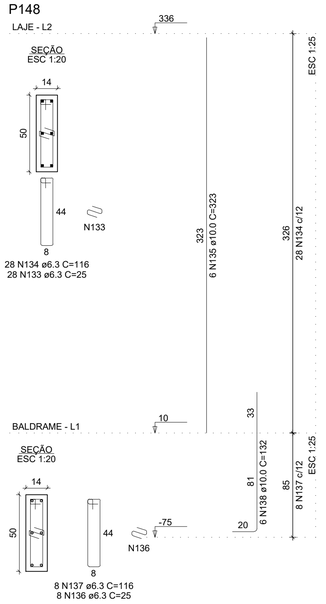
ESTACA: —

CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG

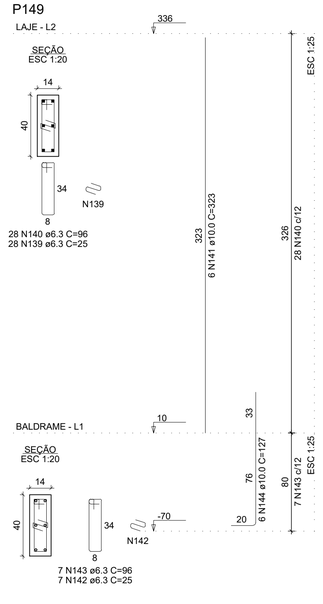
FOLHA: 21-33

FORMATO A1 - 841x594mm

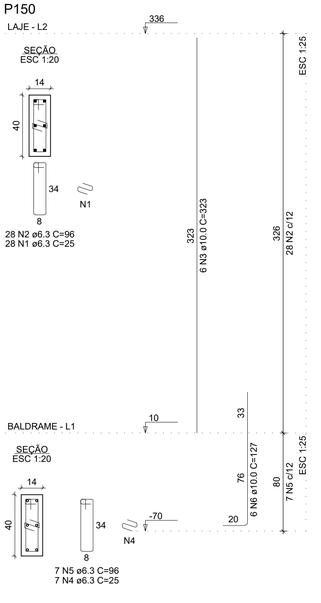
P148



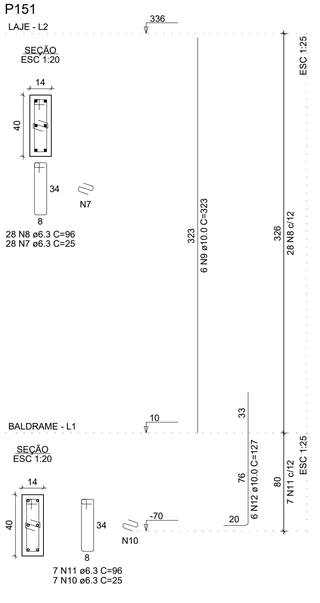
P149



P150



P151



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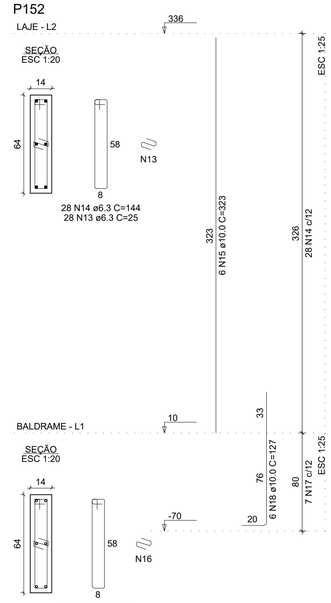

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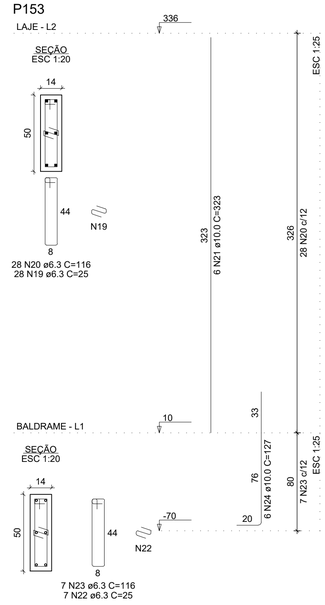

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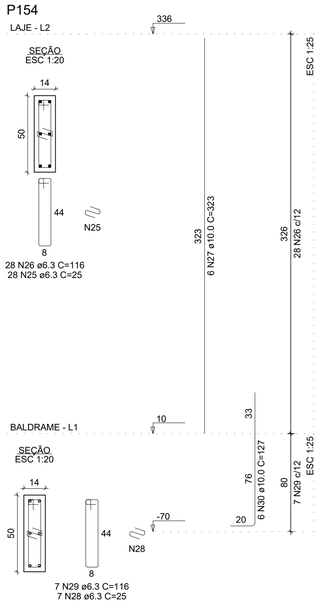

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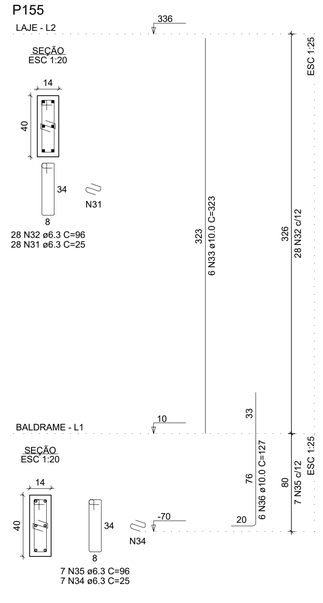

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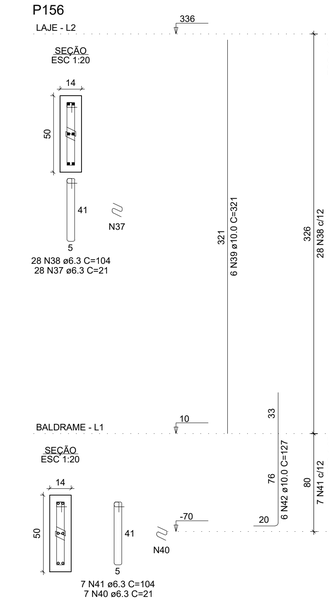

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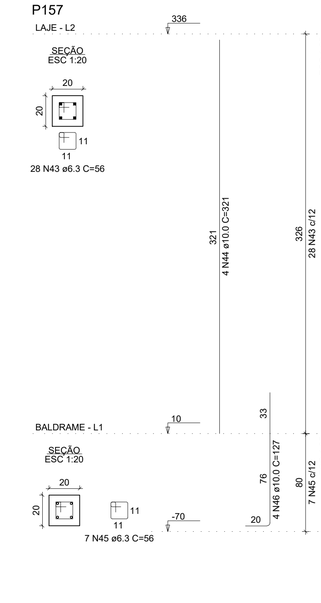
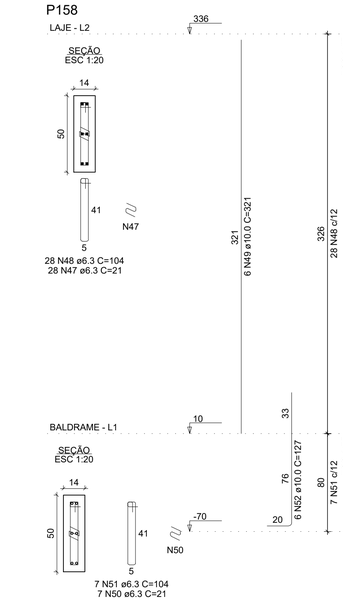


P158



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P150-L2	CA50	1	6.3	28	25	700
	CA50	2	6.3	28	96	2688
	CA50	3	10.0	6	323	1938
P150-L1	CA50	4	6.3	7	25	175
	CA50	5	6.3	7	96	672
	CA50	6	10.0	6	127	762
P151-L2	CA50	7	6.3	28	25	700
	CA50	8	6.3	28	96	2688
	CA50	9	10.0	6	323	1938
P151-L1	CA50	10	6.3	7	25	175
	CA50	11	6.3	7	96	672
	CA50	12	10.0	6	127	762
P152-L2	CA50	13	6.3	28	25	700
	CA50	14	6.3	28	144	4032
	CA50	15	10.0	6	323	1938
P152-L1	CA50	16	6.3	7	25	175
	CA50	17	6.3	7	144	1008
	CA50	18	10.0	6	127	762
P153-L2	CA50	19	6.3	28	25	700
	CA50	20	6.3	28	116	3248
	CA50	21	10.0	6	323	1938
P153-L1	CA50	22	6.3	7	25	175
	CA50	23	6.3	7	116	812
	CA50	24	10.0	6	127	762
P154-L2	CA50	25	6.3	28	25	700
	CA50	26	6.3	28	116	3248
	CA50	27	10.0	6	323	1938
P154-L1	CA50	28	6.3	7	25	175
	CA50	29	6.3	7	116	812
	CA50	30	10.0	6	127	762
P155-L2	CA50	31	6.3	28	25	700
	CA50	32	6.3	28	96	2688
	CA50	33	10.0	6	323	1938
P155-L1	CA50	34	6.3	7	25	175
	CA50	35	6.3	7	96	672
	CA50	36	10.0	6	127	762
P156-L2	CA50	37	6.3	28	21	588
	CA50	38	6.3	28	104	2912
	CA50	39	10.0	6	321	1926
P156-L1	CA50	40	6.3	7	21	147
	CA50	41	6.3	7	104	728
	CA50	42	10.0	6	127	762
P157-L2	CA50	43	6.3	28	56	1568
	CA50	44	10.0	4	321	1284
P157-L1	CA50	45	6.3	7	56	392
	CA50	46	10.0	4	127	508
P158-L2	CA50	47	6.3	28	21	588
	CA50	48	6.3	28	104	2912
	CA50	49	10.0	6	321	1926
P158-L1	CA50	50	6.3	7	21	147
	CA50	51	6.3	7	104	728
	CA50	52	10.0	6	127	762
P159-L3	CA50	53	6.3	11	41	451
	CA50	54	6.3	11	118	1298
	CA50	55	10.0	6	128	768
P159-L2	CA50	56	6.3	28	41	1148
	CA50	57	6.3	28	118	3304
	CA50	58	10.0	6	359	2154
P159-L1	CA50	59	6.3	7	41	287
	CA50	60	6.3	7	118	826
	CA50	61	10.0	6	127	762
P160-L3	CA50	62	6.3	11	31	341
	CA50	63	6.3	11	108	1188
	CA50	64	10.0	6	128	768
P160-L2	CA50	65	6.3	28	31	868
	CA50	66	6.3	28	108	3024
	CA50	67	10.0	6	359	2154
P160-L1	CA50	68	6.3	7	31	217
	CA50	69	6.3	7	108	756
	CA50	70	10.0	6	127	762
P161-L3	CA50	71	6.3	11	31	341
	CA50	72	6.3	11	108	1188
	CA50	73	10.0	6	128	768
P161-L2	CA50	74	6.3	28	31	868
	CA50	75	6.3	28	108	3024
	CA50	76	10.0	6	359	2154
P161-L1	CA50	77	6.3	7	31	217
	CA50	78	6.3	7	108	756
	CA50	79	10.0	6	127	762
P162-L3	CA50	80	6.3	11	41	451
	CA50	81	6.3	11	118	1298
	CA50	82	10.0	6	128	768
P162-L2	CA50	83	6.3	28	41	1148
	CA50	84	6.3	28	118	3304
	CA50	85	10.0	6	359	2154
P162-L1	CA50	86	6.3	7	41	287
	CA50	87	6.3	7	118	826
	CA50	88	10.0	6	127	762
P163-L3	CA50	89	6.3	11	41	451
	CA50	90	6.3	11	118	1298
	CA50	91	10.0	6	128	768
P163-L2	CA50	92	6.3	28	41	1148
	CA50	93	6.3	28	118	3304
	CA50	94	10.0	6	359	2154
P163-L1	CA50	95	6.3	7	41	287
	CA50	96	6.3	7	118	826
	CA50	97	10.0	6	127	762
P164-L3	CA50	98	6.3	11	31	341
	CA50	99	6.3	11	108	1188
	CA50	100	10.0	6	128	768
P164-L2	CA50	101	6.3	28	31	868
	CA50	102	6.3	28	108	3024
	CA50	103	10.0	6	359	2154
P164-L1	CA50	104	6.3	7	31	217
	CA50	105	6.3	7	108	756
	CA50	106	10.0	6	127	762
P165-L2	CA50	107	6.3	28	31	868
	CA50	108	6.3	28	128	3584
	CA50	109	10.0	6	323	1938
P165-L1	CA50	110	6.3	8	31	248
	CA50	111	6.3	8	128	1024
	CA50	112	10.0	6	132	792
P166-L2	CA50	113	6.3	28	31	868
	CA50	114	6.3	28	128	3584
	CA50	115	10.0	6	323	1938
P166-L1	CA50	116	6.3	7	31	217
	CA50	117	6.3	7	128	896
	CA50	118	10.0	6	127	762
P167-L2	CA50	119	6.3	28	31	868
	CA50	120	6.3	28	128	3584
	CA50	121	10.0	6	323	1938
P167-L1	CA50	122	6.3	7	31	217
	CA50	123	6.3	7	128	896
	CA50	124	10.0	6	127	762
P168-L2	CA50	125	6.3	28	31	868
	CA50	126	6.3	28	128	3584
	CA50	127	10.0	6	323	1938
P168-L1	CA50	128	6.3	8	31	248
	CA50	129	6.3	8	128	1024
	CA50	130	10.0	6	132	792
P169-L2	CA50	131	6.3	28	25	700
	CA50	132	6.3	28	116	3248
	CA50	133	10.0	6	323	1938
P169-L1	CA50	134	6.3	8	25	200
	CA50	135	6.3	8	116	928
	CA50	136	10.0	6	132	792
P170-L2	CA50	137	6.3	28	25	700
	CA50	138	6.3	28	116	3248
	CA50	139	10.0	6	323	1938
P170-L1	CA50	140	6.3	7	25	175
	CA50	141	6.3	7	116	812
	CA50	142	10.0	6	127	762
P171-L2	CA50	143	6.3	28	25	700
	CA50	144	6.3	28	96	2688
	CA50	145	10.0	6	323	1938
P171-L1	CA50	146	6.3	7	25	175
	CA50	147	6.3	7	96	672
	CA50	148	10.0	6	127	762

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	1171.5	315.3
	10.0	644.6	437.2

PESO TOTAL (kg)	
CA50	752.5

Volume de concreto (C-30) = 7.23 m³
Área de forma = 113.07 m²

REV.	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	18-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
154680-0
CONTRATANTE:

PABLO VINICIUS RIGO:06875439913 913
Assinado de forma digital por PABLO VINICIUS RIGO:06875439913
Dados: 2024.12.03 16:04:08 -03'00'

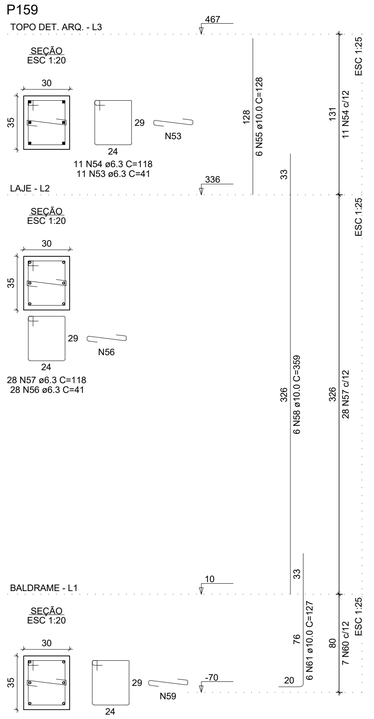
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

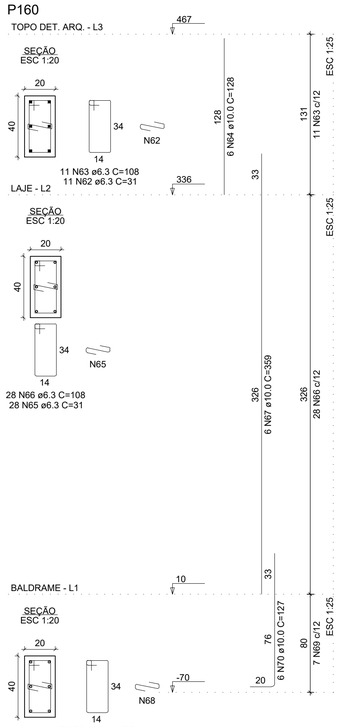
PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: —
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 22-33

FORMATO A1 - 841x594mm

P159



P160



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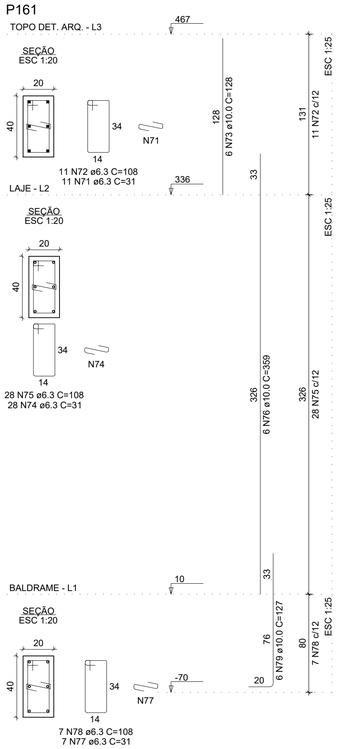

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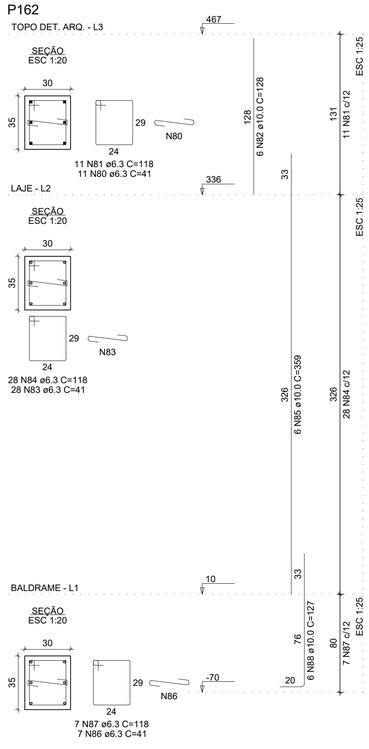

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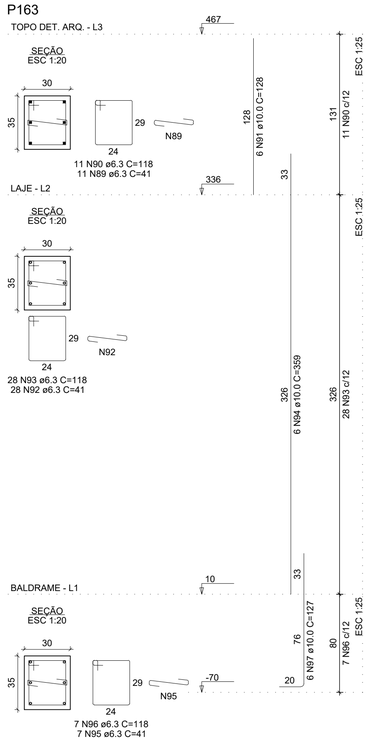
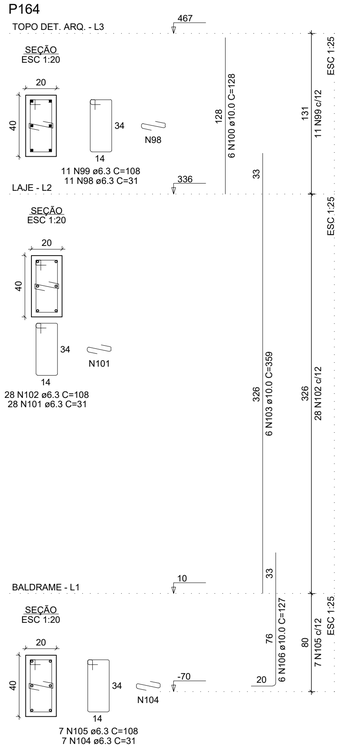


P164



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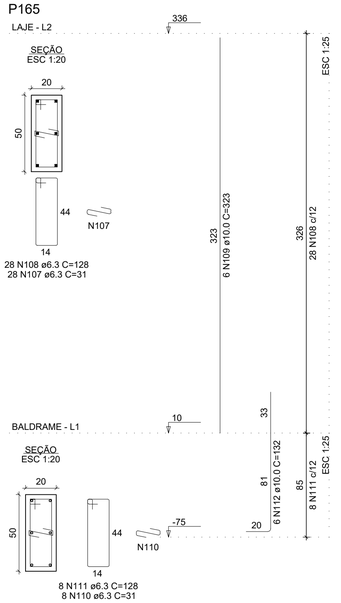

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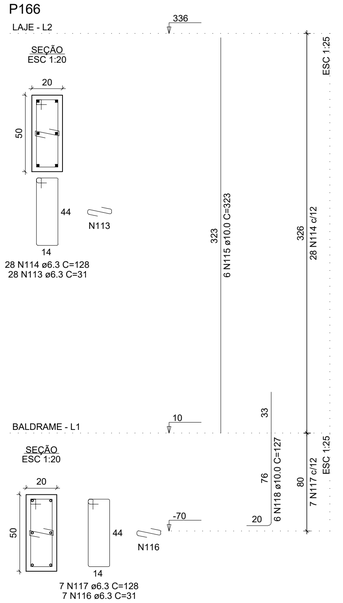


REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	19-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINICIUS RIGO
ENG. CIVIL
164693-0
CONTRATANTE:

PABLO VINICIUS RIGO:068754399
13
Assinado de forma digital por PABLO VINICIUS RIGO:068754399313
Dados: 2024.12.03 16:04:50 -03'00'

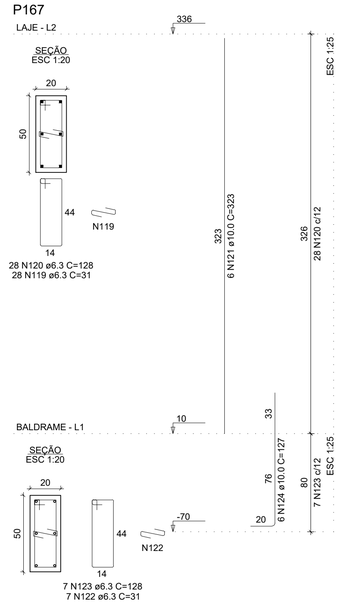
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

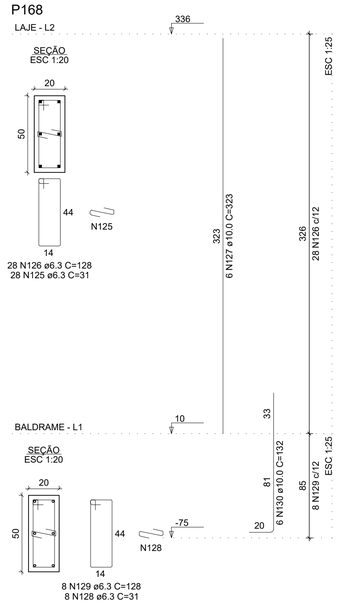
PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: —
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 23-33

FORMATO A1 - 841x594mm

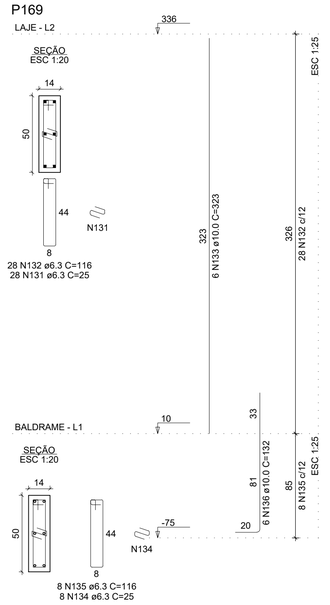
P167



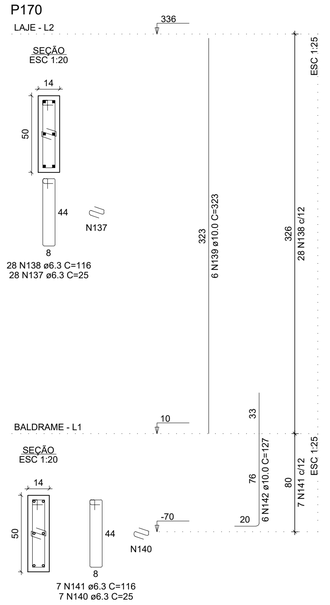
P168



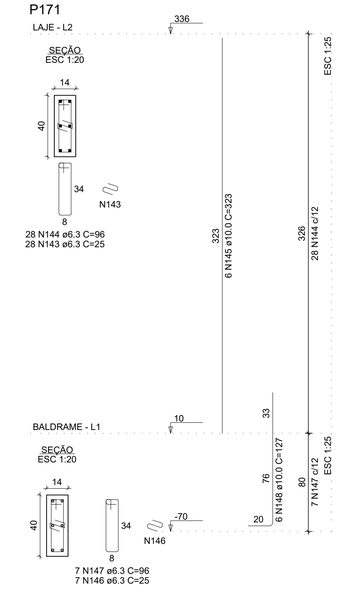
P169



P170



P171



RELAÇÃO DO AÇO

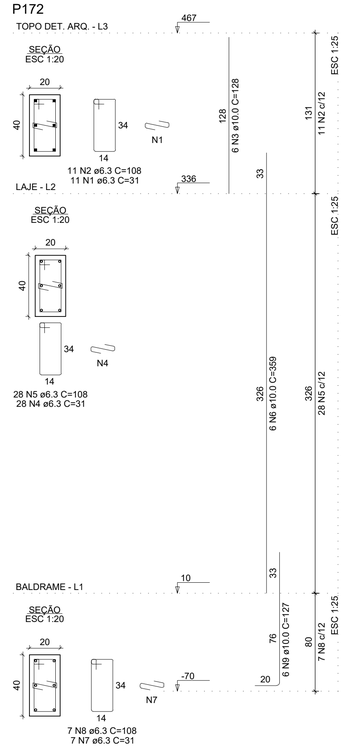
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P172-L3	CA50	1	6.3	11	31	341
	CA50	2	6.3	11	108	1188
	CA50	3	10.0	6	128	768
P172-L2	CA50	4	6.3	28	31	868
	CA50	5	6.3	28	108	3024
	CA50	6	10.0	6	359	2154
P172-L1	CA50	7	6.3	7	31	217
	CA50	8	6.3	7	108	756
	CA50	9	10.0	6	127	762
P173-L3	CA50	10	6.3	11	41	451
	CA50	11	6.3	11	118	1298
	CA50	12	10.0	6	128	768
P173-L2	CA50	13	6.3	28	41	1148
	CA50	14	6.3	28	118	3304
	CA50	15	10.0	6	359	2154
P173-L1	CA50	16	6.3	7	41	287
	CA50	17	6.3	7	118	826
	CA50	18	10.0	6	127	762
P174-L2	CA50	19	6.3	28	25	700
	CA50	20	6.3	28	116	3248
	CA50	21	10.0	6	323	1938
P174-L1	CA50	22	6.3	7	25	175
	CA50	23	6.3	7	116	812
	CA50	24	10.0	6	127	762
P175-L2	CA50	25	6.3	28	25	700
	CA50	26	6.3	28	96	2688
	CA50	27	10.0	6	323	1938
P175-L1	CA50	28	6.3	7	25	175
	CA50	29	6.3	7	96	672
	CA50	30	10.0	6	127	762

RESUMO DO AÇO

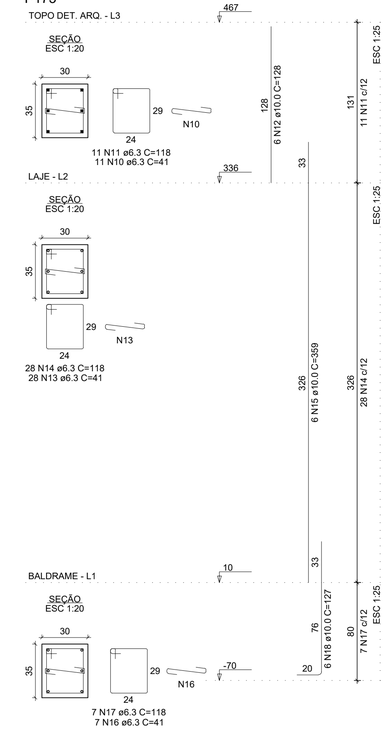
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	228.8	61.6
	10.0	127.7	86.6
PESO TOTAL (kg)			
CA50	148.2		

Volume de concreto (C-30) = 1.41 m³
Área de forma = 21.55 m²

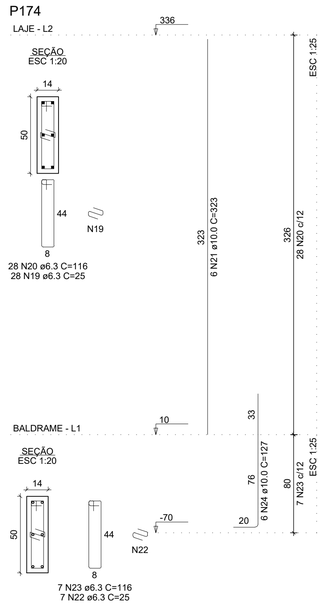
P172



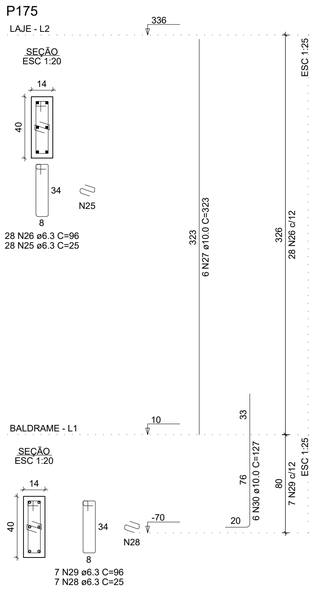
P173



P174



P175



REV	DATA	DESENHO	EMISSÃO INICIAL / ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	15-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
164680-0
CONTRATANTE:

PABLO VINICIUS RIGO:06875439913
13
Assinado de forma digital por PABLO VINICIUS RIGO:06875439913
Dados: 2024.12.03 16:05:24 -03'00'

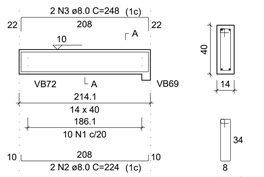
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DOS PILARES
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: ---
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 24-33

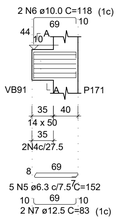
FORMATO A1 - 841x594mm

VB175 (14 x 40)
ESC 1:50



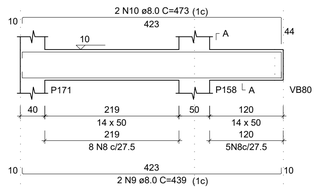
SEÇÃO A-A
ESC 1:25

VB176 (14 x 50)
ESC 1:50

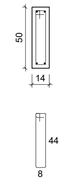


SEÇÃO A-A
ESC 1:25

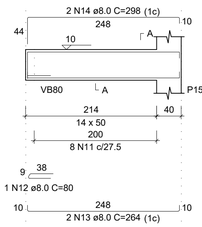
VB177 (14 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25

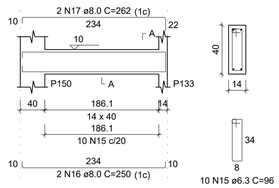


VB178 (14 x 50)
ESC 1:50



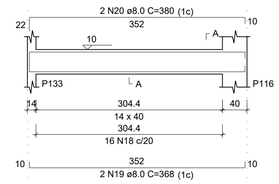
SEÇÃO A-A
ESC 1:25

VB179 (14 x 40)
ESC 1:50

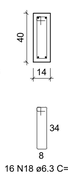


SEÇÃO A-A
ESC 1:25

VB180 (14 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25



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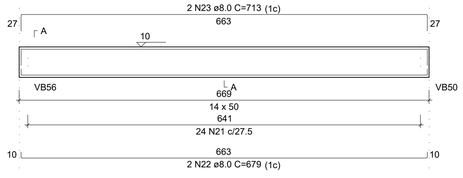
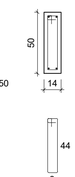
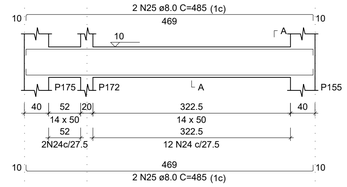
ESC 1:50



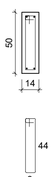
SEÇÃO A-A
ESC 1:25



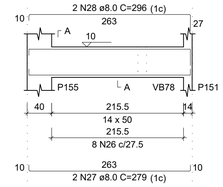
VB182 (14 x 50)
ESC 1:50



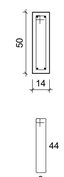
SEÇÃO A-A
ESC 1:25



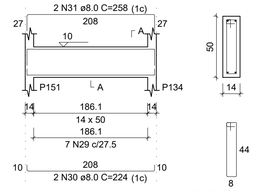
VB183 (14 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25

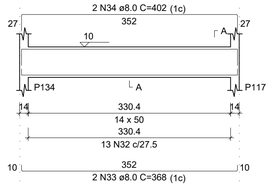


VB184 (14 x 50)
ESC 1:50

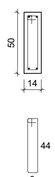


SEÇÃO A-A
ESC 1:25

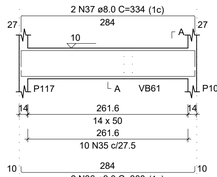
VB185 (14 x 50)
ESC 1:50



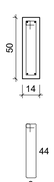
SEÇÃO A-A
ESC 1:25



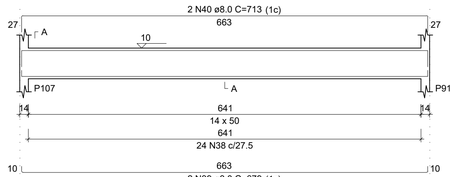
VB186 (14 x 50)
ESC 1:50



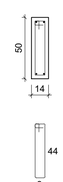
SEÇÃO A-A
ESC 1:25



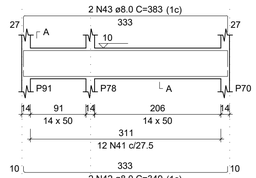
VB187 (14 x 50)
ESC 1:50



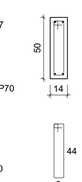
SEÇÃO A-A
ESC 1:25



VB188 (14 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25



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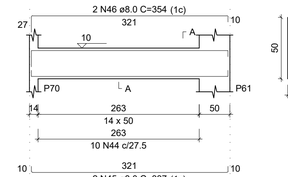
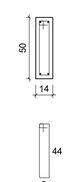
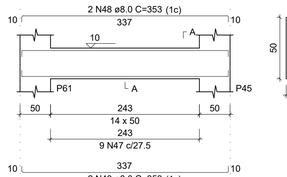


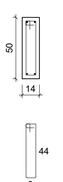
SEÇÃO A-A
ESC 1:25



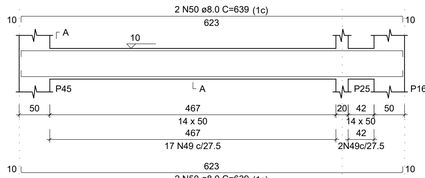
VB190 (14 x 50)
ESC 1:50



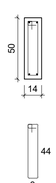
SEÇÃO A-A
ESC 1:25



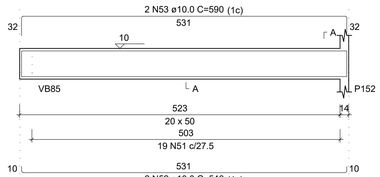
VB191 (14 x 50)
ESC 1:50



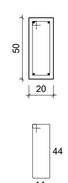
SEÇÃO A-A
ESC 1:25



VB192 (20 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25



VB193 (14 x 50)
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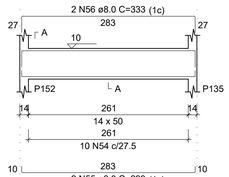
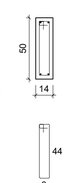
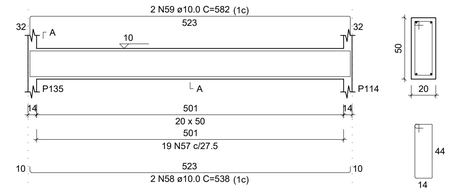


SEÇÃO A-A
ESC 1:25

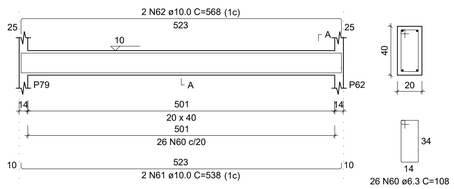


VB194 (20 x 50)
ESC 1:50



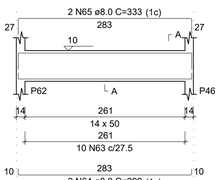
SEÇÃO A-A
ESC 1:25

VB195 (20 x 40)
ESC 1:50

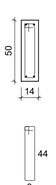


SEÇÃO A-A
ESC 1:25

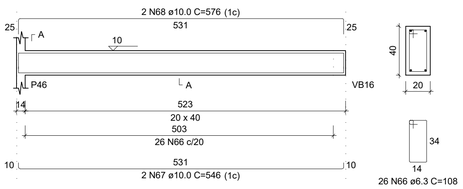
VB196 (14 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25

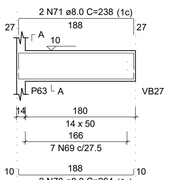


VB197 (20 x 40)
ESC 1:50

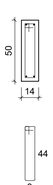


SEÇÃO A-A
ESC 1:25

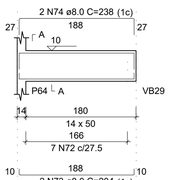
VB198 (14 x 50)
ESC 1:50



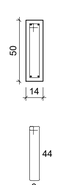
SEÇÃO A-A
ESC 1:25



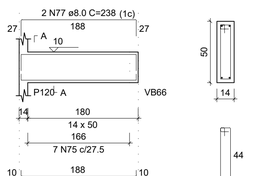
VB199 (14 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25

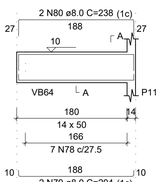


VB200 (14 x 50)
ESC 1:50

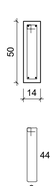


SEÇÃO A-A
ESC 1:25

VB201 (14 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25



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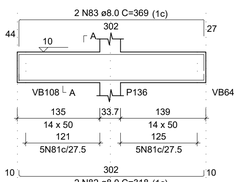
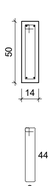
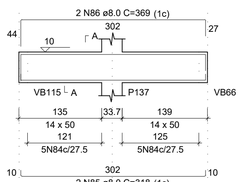
ESC 1:50



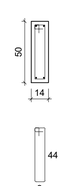
SEÇÃO A-A
ESC 1:25



VB203 (14 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB175	CA50	1	6.3	10	96	960
	CA50	2	8.0	2	224	448
	CA50	3	8.0	2	248	496
VB176	CA50	4	6.3	2	116	232
	CA50	5	6.3	5	152	760
	CA50	6	10.0	2	118	236
	CA50	7	12.5	2	83	166
VB177	CA50	8	6.3	13	116	1508
	CA50	9	8.0	2	439	878
	CA50	10	8.0	2	473	946
VB178	CA50	11	6.3	8	116	928
	CA50	12	8.0	1	80	80
	CA50	13	8.0	2	264	528
	CA50	14	8.0	2	298	596
VB179	CA50	15	6.3	10	96	960
	CA50	16	8.0	2	250	500
	CA50	17	8.0	2	262	524
VB180	CA50	18	6.3	16	96	1536
	CA50	19	8.0	2	368	736
	CA50	20	8.0	2	380	760
VB181	CA50	21	6.3	24	116	2784
	CA50	22	8.0	2	679	1358
	CA50	23	8.0	2	713	1426
VB182	CA50	24	6.3	14	116	1624
	CA50	25	8.0	4	485	1940
VB183	CA50	26	6.3	8	116	928
	CA50	27	8.0	2	279	558
	CA50	28	8.0	2	296	592
VB184	CA50	29	6.3	7	116	812
	CA50	30	8.0	2	224	448
	CA50	31	8.0	2	258	516
VB185	CA50	32	6.3	13	116	1508
	CA50	33	8.0	2	368	736
	CA50	34	8.0	2	402	804
VB186	CA50	35	6.3	10	116	1160
	CA50	36	8.0	2	300	600
	CA50	37	8.0	2	334	668
VB187	CA50	38	6.3	24	116	2784
	CA50	39	8.0	2	679	1358
	CA50	40	8.0	2	713	1426
VB188	CA50	41	6.3	12	116	1392
	CA50	42	8.0	2	349	698
	CA50	43	8.0	2	383	766
VB189	CA50	44	6.3	10	116	1160
	CA50	45	8.0	2	337	674
	CA50	46	8.0	2	354	708
VB190	CA50	47	6.3	9	116	1044
	CA50	48	8.0	4	353	1412
VB191	CA50	49	6.3	19	116	2204
	CA50	50	8.0	4	639	2556
VB192	CA50	51	6.3	19	128	2432
	CA50	52	10.0	2	546	1092
	CA50	53	10.0	2	590	1180
VB193	CA50	54	6.3	10	116	1160
	CA50	55	8.0	2	299	598
	CA50	56	8.0	2	333	666
VB194	CA50	57	6.3	19	128	2432
	CA50	58	10.0	2	538	1076
	CA50	59	10.0	2	582	1164
VB195	CA50	60	6.3	26	108	2808
	CA50	61	10.0	2	538	1076
	CA50	62	10.0	2	568	1136
VB196	CA50	63	6.3	10	116	1160
	CA50	64	8.0	2	299	598
	CA50	65	8.0	2	333	666
VB197	CA50	66	6.3	26	108	2808
	CA50	67	10.0	2	546	1092
	CA50	68	10.0	2	576	1152
VB198	CA50	69	6.3	7	116	812
	CA50	70	8.0	2	204	408
	CA50	71	8.0	2	238	476
VB199	CA50	72	6.3	7	116	812
	CA50	73	8.0	2	204	408
	CA50	74	8.0	2	238	476
VB200	CA50	75	6.3	7	116	812
	CA50	76	8.0	2	204	408
	CA50	77	8.0	2	238	476
VB201	CA50	78	6.3	7	116	812
	CA50	79	8.0	2	204	408
	CA50	80	8.0	2	238	476
VB202	CA50	81	6.3	10	116	1160
	CA50	82	8.0	2	318	636
	CA50	83	8.0	2	369	738
VB203	CA50	84	6.3	10	116	1160
	CA50	85	8.0	2	318	636
	CA50	86	8.0	2	369	738

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	426.5	114.8
	8.0	345.5	150
	10.0	92	62.4
	12.5	1.7	1.8
PESO TOTAL (kg)			
CA50	328.9		

Volume de concreto (C-30) = 6.59 m³
Área de forma = 100.01 m²

REV.	DATA	RESPONSÁVEL	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	19-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINICIUS RIGO
ENG. CIVIL
164680-0
CONTRATANTE:

PABLO VINICIUS RIGO:06875439913
Assinado de forma digital por PABLO VINICIUS RIGO:06875439913
Dados: 2024.12.03 16:08:18 -03'00'

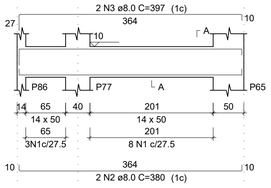
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

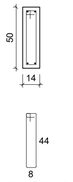
PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DAS VIGAS
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: ---
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 25-33

FORMATO A1 - 841x594mm

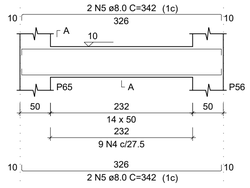
VB148 (14 x 50)
ESC 1:50



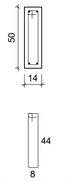
SEÇÃO A-A
ESC 1:25



VB149 (14 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25



VB150 (14 x 50)
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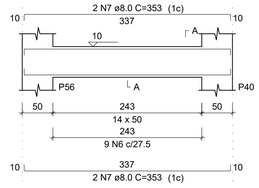
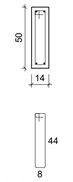
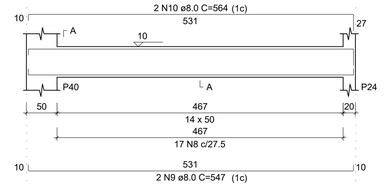


SEÇÃO A-A
ESC 1:25



VB151 (14 x 50)
ESC 1:50



SEÇÃO A-A
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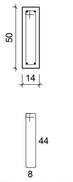

VB152 (14 x 50)
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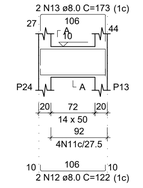
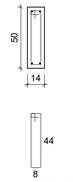


SEÇÃO A-A
ESC 1:25



VB153 (14 x 40)
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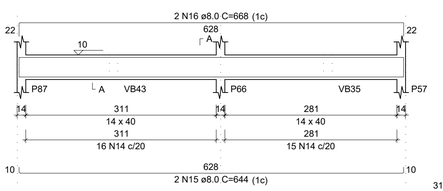
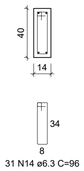


SEÇÃO A-A
ESC 1:25



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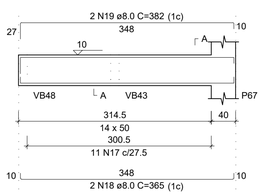
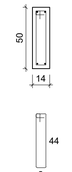


SEÇÃO A-A
ESC 1:25



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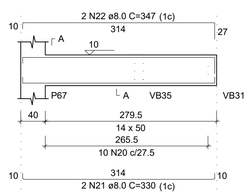
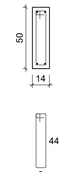
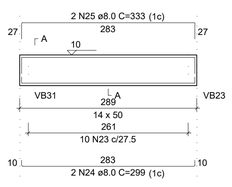


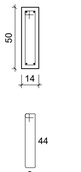
SEÇÃO A-A
ESC 1:25



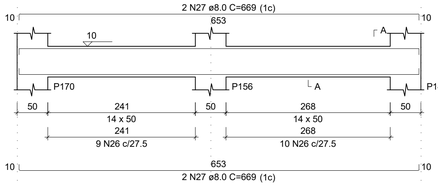
VB156 (14 x 50)
ESC 1:50



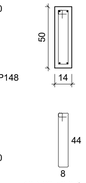
SEÇÃO A-A
ESC 1:25



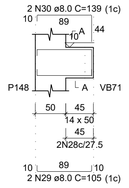
VB157 (14 x 50)
ESC 1:50



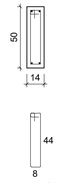
SEÇÃO A-A
ESC 1:25



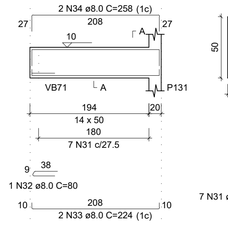
VB158 (14 x 50)
ESC 1:50



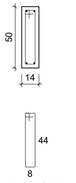
SEÇÃO A-A
ESC 1:25



VB159 (14 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25



VB160 (14 x 50)
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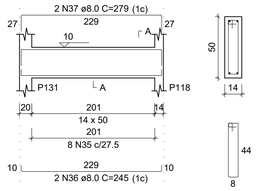
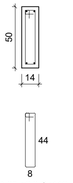
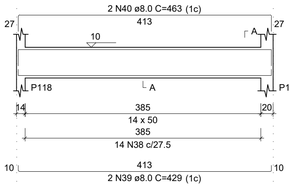


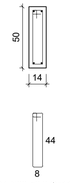
SEÇÃO A-A
ESC 1:25



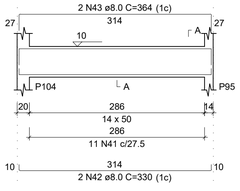
VB161 (14 x 50)
ESC 1:50



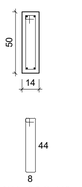
SEÇÃO A-A
ESC 1:25



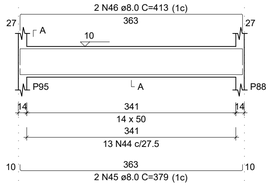
VB162 (14 x 50)
ESC 1:50



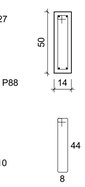
SEÇÃO A-A
ESC 1:25



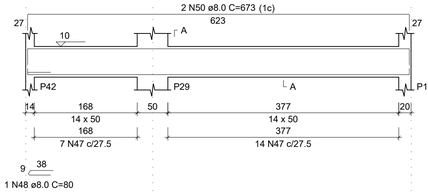
VB163 (14 x 50)
ESC 1:50



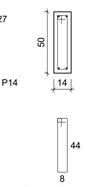
SEÇÃO A-A
ESC 1:25



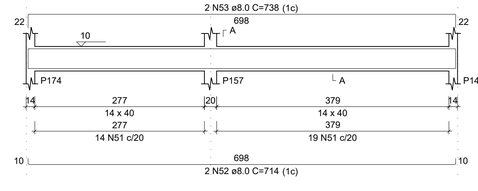
VB164 (14 x 50)
ESC 1:50



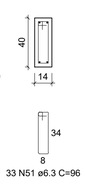
SEÇÃO A-A
ESC 1:25



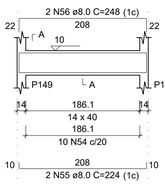
VB165 (14 x 40)
ESC 1:50



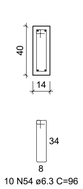
SEÇÃO A-A
ESC 1:25



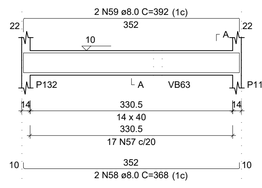
VB166 (14 x 40)
ESC 1:50



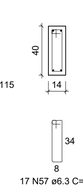
SEÇÃO A-A
ESC 1:25



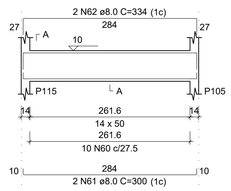
VB167 (14 x 40)
ESC 1:50



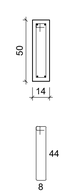
SEÇÃO A-A
ESC 1:25



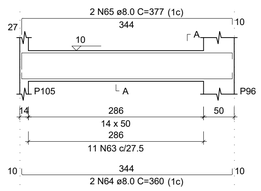
VB168 (14 x 50)
ESC 1:50



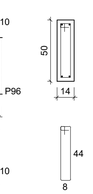
SEÇÃO A-A
ESC 1:25



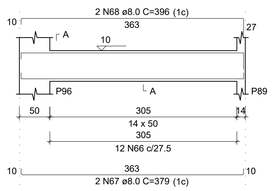
VB169 (14 x 50)
ESC 1:50



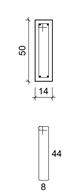
SEÇÃO A-A
ESC 1:25



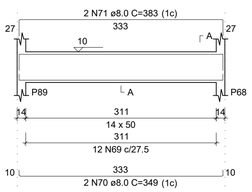
VB170 (14 x 50)
ESC 1:50



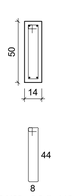
SEÇÃO A-A
ESC 1:25



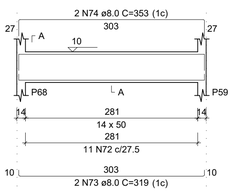
VB171 (14 x 50)
ESC 1:50



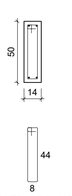
SEÇÃO A-A
ESC 1:25



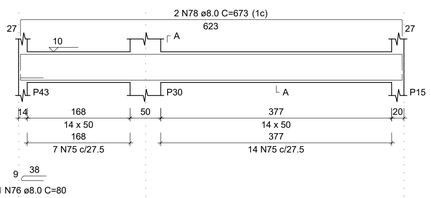
VB172 (14 x 50)
ESC 1:50



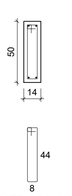
SEÇÃO A-A
ESC 1:25



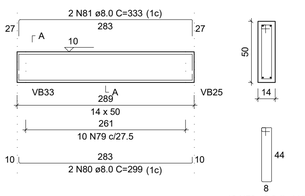
VB173 (14 x 50)
ESC 1:50



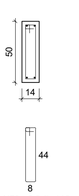
SEÇÃO A-A
ESC 1:25



VB174 (14 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB148	CA50	1	6.3	11	116	1276
	CA50	2	8.0	2	380	760
	CA50	3	8.0	2	397	794
VB149	CA50	4	6.3	9	116	1044
	CA50	5	8.0	4	342	1368
VB150	CA50	6	6.3	9	116	1044
	CA50	7	8.0	4	353	1412
VB151	CA50	8	6.3	17	116	1972
	CA50	9	8.0	2	547	1094
	CA50	10	8.0	2	564	1128
VB152	CA50	11	6.3	4	116	464
	CA50	12	8.0	2	122	244
	CA50	13	8.0	2	173	346
VB153	CA50	14	6.3	31	96	2976
	CA50	15	8.0	2	644	1288
	CA50	16	8.0	2	668	1336
VB154	CA50	17	6.3	11	116	1276
	CA50	18	8.0	2	365	730
	CA50	19	8.0	2	382	764
VB155	CA50	20	6.3	10	116	1160
	CA50	21	8.0	2	330	660
	CA50	22	8.0	2	347	694
VB156	CA50	23	6.3	10	116	1160
	CA50	24	8.0	2	299	598
	CA50	25	8.0	2	333	666
VB157	CA50	26	6.3	19	116	2204
	CA50	27	8.0	4	669	2676
VB158	CA50	28	6.3	2	116	232
	CA50	29	8.0	2	105	210
	CA50	30	8.0	2	139	278
VB159	CA50	31	6.3	7	116	812
	CA50	32	8.0	1	80	80
	CA50	33	8.0	2	224	448
	CA50	34	8.0	2	258	516
VB160	CA50	35	6.3	8	116	928
	CA50	36	8.0	2	245	490
	CA50	37	8.0	2	279	558
VB161	CA50	38	6.3	14	116	1624
	CA50	39	8.0	2	429	858
	CA50	40	8.0	2	463	926
VB162	CA50	41	6.3	11	116	1276
	CA50	42	8.0	2	330	660
	CA50	43	8.0	2	364	728
VB163	CA50	44	6.3	13	116	1508
	CA50	45	8.0	2	379	758
	CA50	46	8.0	2	413	826
VB164	CA50	47	6.3	21	116	2436
	CA50	48	8.0	1	80	80
	CA50	49	8.0	2	639	1278
	CA50	50	8.0	2	673	1346
VB165	CA50	51	6.3	33	96	3168
	CA50	52	8.0	2	714	1428
	CA50	53	8.0	2	738	1476
VB166	CA50	54	6.3	10	96	960
	CA50	55	8.0	2	224	448
	CA50	56	8.0	2	248	496
VB167	CA50	57	6.3	17	96	1632
	CA50	58	8.0	2	368	736
	CA50	59	8.0	2	392	784
VB168	CA50	60	6.3	10	116	1160
	CA50	61	8.0	2	300	600
	CA50	62	8.0	2	334	668
VB169	CA50	63	6.3	11	116	1276
	CA50	64	8.0	2	360	720
	CA50	65	8.0	2	377	754
VB170	CA50	66	6.3	12	116	1392
	CA50	67	8.0	2	379	758
	CA50	68	8.0	2	396	792
VB171	CA50	69	6.3	12	116	1392
	CA50	70	8.0	2	349	698
	CA50	71	8.0	2	383	766
VB172	CA50	72	6.3	11	116	1276
	CA50	73	8.0	2	319	638
	CA50	74	8.0	2	353	706
VB173	CA50	75	6.3	21	116	2436
	CA50	76	8.0	1	80	80
	CA50	77	8.0	2	639	1278
	CA50	78	8.0	2	673	1346
VB174	CA50	79	6.3	10	116	1160
	CA50	80	8.0	2	299	598
	CA50	81	8.0	2	333	666

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	392.4	105.6
	8.0	430.3	186.6
PESO TOTAL (kg)			
CA50	292.4		

Volume de concreto (C-30) = 5.81 m³
Área de forma = 95.07 m²

REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	19-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINICIUS RIGO
ENG. CIVIL
156680-0
CONTRATANTE:

PABLO VINICIUS RIGO:06875439913 913
Assinado de forma digital por PABLO VINICIUS RIGO:06875439913
Dados: 2024.12.03 16:18:22 -03'00'

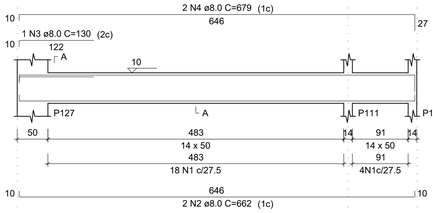
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

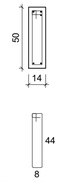
PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DAS VIGAS
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: —
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 26-33

FORMATO A1 - 841x594mm

VB123 (14 x 50)
ESC 1:50

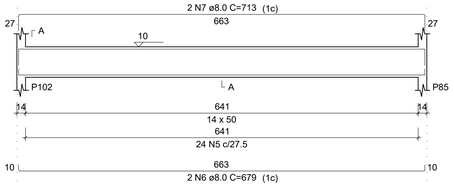


SEÇÃO A-A
ESC 1:25

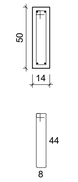


22 N1 ø6.3 C=116

VB124 (14 x 50)
ESC 1:50

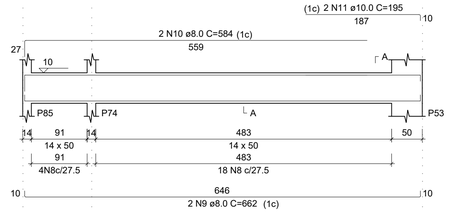


SEÇÃO A-A
ESC 1:25

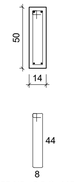


24 N5 ø6.3 C=116

VB125 (14 x 50)
ESC 1:50

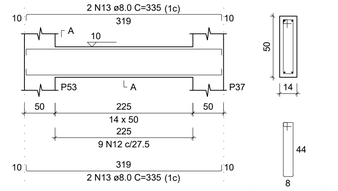


SEÇÃO A-A
ESC 1:25



22 N8 ø6.3 C=116

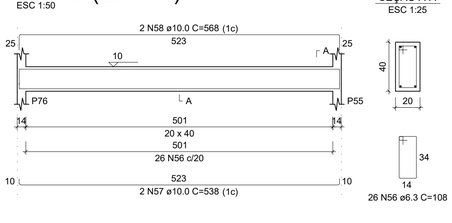
VB126 (14 x 50)
ESC 1:50



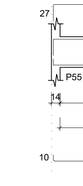
SEÇÃO A-A
ESC 1:25

9 N12 ø6.3 C=116

VB127 (14 x 50)
ESC 1:50

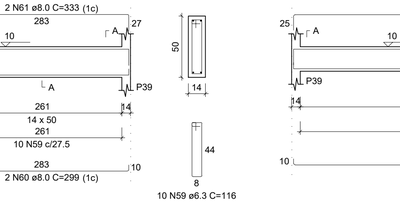


SEÇÃO A-A
ESC 1:25

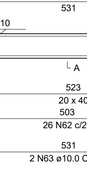


22 N14 ø6.3 C=116

VB128 (20 x 40)
ESC 1:50

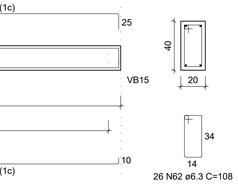


SEÇÃO A-A
ESC 1:25

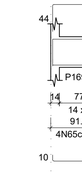


26 N18 ø6.3 C=108

VB129 (14 x 50)
ESC 1:50

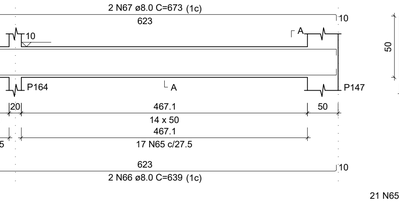


SEÇÃO A-A
ESC 1:25

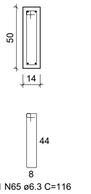


10 N21 ø6.3 C=116

VB130 (20 x 40)
ESC 1:50

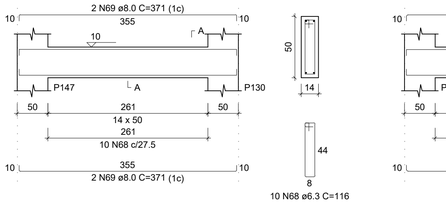


SEÇÃO A-A
ESC 1:25

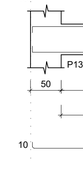


26 N24 ø6.3 C=108

VB131 (20 x 40)
ESC 1:50

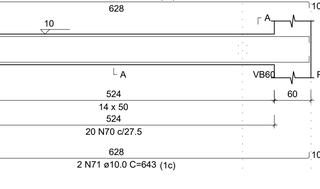


SEÇÃO A-A
ESC 1:25



26 N27 ø6.3 C=108

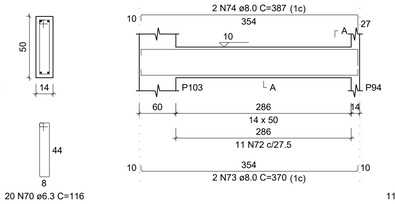
VB132 (14 x 50)
ESC 1:50



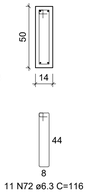
SEÇÃO A-A
ESC 1:25

10 N30 ø6.3 C=116

VB133 (20 x 40)
ESC 1:50

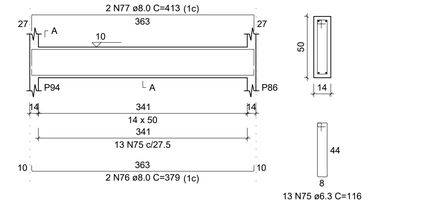


SEÇÃO A-A
ESC 1:25



26 N33 ø6.3 C=108

VB134 (20 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

23 N36 ø6.3 C=108

VB135 (20 x 60)
ESC 1:50

SEÇÃO A-A
ESC 1:25

16 N39 ø6.3 C=148

VB136 (20 x 60)
ESC 1:50

SEÇÃO A-A
ESC 1:25

16 N43 ø6.3 C=148

VB137 (20 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25

12 N47 ø6.3 C=108

VB138 (20 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25

11 N50 ø6.3 C=108

VB139 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

10 N53 ø6.3 C=116

VB140 (20 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25

26 N56 ø6.3 C=108

VB141 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

10 N59 ø6.3 C=116

VB142 (20 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25

26 N62 ø6.3 C=108

VB143 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

21 N65 ø6.3 C=116

VB144 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

10 N68 ø6.3 C=116

VB145 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

20 N70 ø6.3 C=116

VB146 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

11 N72 ø6.3 C=116

VB147 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

13 N75 ø6.3 C=116

RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB123	CA50	1	6.3	22	116	2552
	CA50	2	8.0	2	662	1324
	CA50	3	8.0	1	130	130
	CA50	4	8.0	2	679	1358
VB124	CA50	5	6.3	24	116	2784
	CA50	6	8.0	2	679	1358
	CA50	7	8.0	2	713	1426
VB125	CA50	8	6.3	22	116	2552
	CA50	9	8.0	2	662	1324
	CA50	10	8.0	2	584	1168
	CA50	11	10.0	2	195	390
VB126	CA50	12	6.3	9	116	1044
	CA50	13	8.0	4	335	1340
VB127	CA50	14	6.3	22	116	2552
	CA50	15	8.0	2	657	1314
	CA50	16	8.0	1	130	130
	CA50	17	8.0	2	691	1382
VB128	CA50	18	6.3	26	108	2808
	CA50	19	10.0	2	546	1092
	CA50	20	10.0	2	576	1152
VB129	CA50	21	6.3	10	116	1160
	CA50	22	8.0	2	299	598
	CA50	23	8.0	2	333	666
VB130	CA50	24	6.3	26	108	2808
	CA50	25	10.0	2	538	1076
	CA50	26	10.0	2	568	1136
VB131	CA50	27	6.3	26	108	2808
	CA50	28	10.0	2	538	1076
	CA50	29	10.0	2	568	1136
VB132	CA50	30	6.3	10	116	1160
	CA50	31	8.0	2	299	598
	CA50	32	8.0	2	333	666
VB133	CA50	33	6.3	26	108	2808
	CA50	34	10.0	2	547	1094
	CA50	35	10.0	2	577	1154
VB134	CA50	36	6.3	23	108	2484
	CA50	37	10.0	2	527	1054
	CA50	38	10.0	2	542	1084
VB135	CA50	39	6.3	16	148	2368
	CA50	40	6.3	8	509	4072
	CA50	41	12.5	2	523	1046
	CA50	42	12.5	2	565	1130
VB136	CA50	43	6.3	16	148	2368
	CA50	44	6.3	8	509	4072
	CA50	45	12.5	2	523	1046
	CA50	46	12.5	2	565	1130
VB137	CA50	47	6.3	12	108	1296
	CA50	48	10.0	2	288	576
	CA50	49	10.0	2	303	606
VB138	CA50	50	6.3	11	108	1188
	CA50	51	10.0	2	268	536
	CA50	52	10.0	2	298	596
VB139	CA50	53	6.3	10	116	1160
	CA50	54	8.0	2	299	598
	CA50	55	8.0	2	333	666
VB140	CA50	56	6.3	26	108	2808
	CA50	57	10.0	2	538	1076
	CA50	58	10.0	2	568	1136
VB141	CA50	59	6.3	10	116	1160
	CA50	60	8.0	2	299	598
	CA50	61	8.0	2	333	666
VB142	CA50	62	6.3	26	108	2808
	CA50	63	10.0	2	546	1092
	CA50	64	10.0	2	576	1152
VB143	CA50	65	6.3	21	116	2436
	CA50	66	8.0	2	639	1278
	CA50	67	8.0	2	673	1346
VB144	CA50	68	6.3	10	116	1160
	CA50	69	8.0	4	371	1484
VB145	CA50	70	6.3	20	116	2320
	CA50	71	10.0	4	643	2572
VB146	CA50	72	6.3	11	116	1276
	CA50	73	8.0	2	370	740
	CA50	74	8.0	2	387	774
VB147	CA50	75	6.3	13	116	1508
	CA50	76	8.0	2	379	758
	CA50	77	8.0	2	413	826

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	595.2	160.2
	8.0	245.2	106.4
	10.0	207.9	141
	12.5	43.5	46.1
PESO TOTAL (kg)			
CA50	453.7		

Volume de concreto (C-30) = 8.11 m³
Área de forma = 111.40 m²

REV	DATA	DESENHO	EMISSÃO INICIAL / ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	19/11/2024	PABLO	EMISSÃO INICIAL	AMVALI

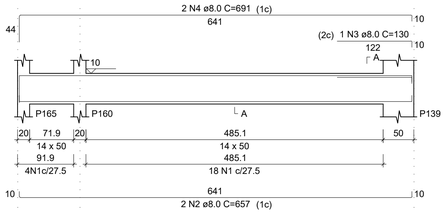
RESPONSÁVEL TÉCNICO: PABLO VINÍCIUS RIGO ENG. CIVIL 164680-0
CONTRATANTE:
PABLO VINICIUS RIGO:06875439913 — Assinado de forma digital por PABLO VINICIUS RIGO:06875439913 Dados: 2024.12.03 16:19:04 -03'00'

ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

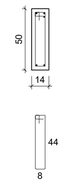
TÍTULO: PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA
PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DAS VIGAS
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTAÇA: ---
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 27-33

FORMATO A1 - 841x594mm

VB100 (14 x 50)
ESC 1:50

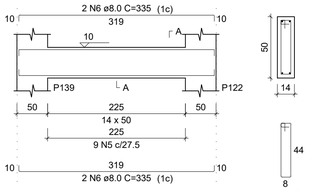


SEÇÃO A-A
ESC 1:25

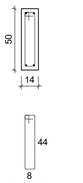


22 N1 ø6.3 C=116

VB101 (14 x 50)
ESC 1:50

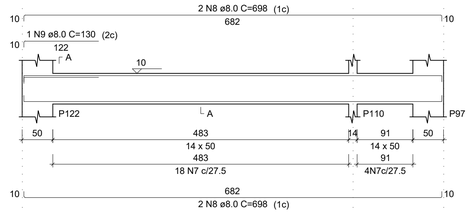


SEÇÃO A-A
ESC 1:25

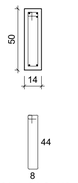


9 N5 ø6.3 C=116

VB102 (14 x 50)
ESC 1:50

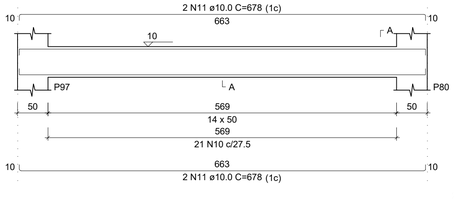


SEÇÃO A-A
ESC 1:25

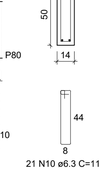


22 N7 ø6.3 C=116

VB103 (14 x 50)
ESC 1:50

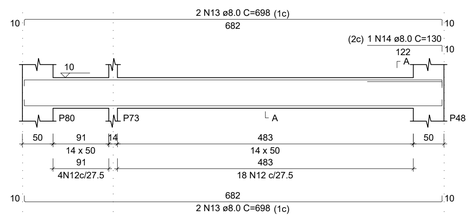


SEÇÃO A-A
ESC 1:25

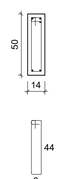


21 N10 ø6.3 C=116

VB104 (14 x 50)
ESC 1:50

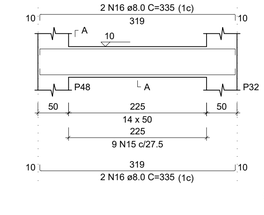


SEÇÃO A-A
ESC 1:25

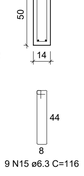


22 N12 ø6.3 C=116

VB105 (14 x 50)
ESC 1:50

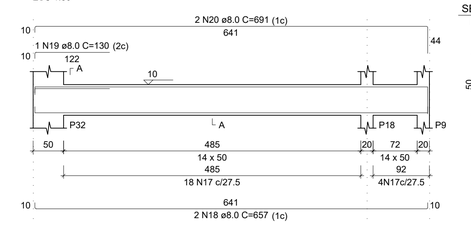


SEÇÃO A-A
ESC 1:25

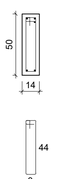


9 N15 ø6.3 C=116

VB106 (14 x 50)
ESC 1:50

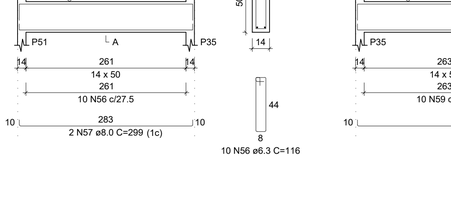


SEÇÃO A-A
ESC 1:25

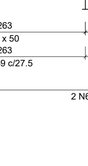


22 N17 ø6.3 C=116

VB107 (14 x 50)
ESC 1:50

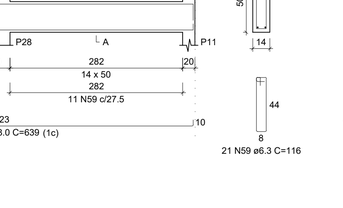


SEÇÃO A-A
ESC 1:25



21 N21 ø6.3 C=116

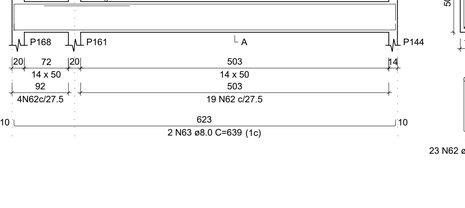
VB108 (14 x 50)
ESC 1:50



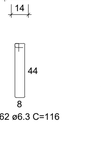
SEÇÃO A-A
ESC 1:25

10 N24 ø6.3 C=116

VB109 (14 x 50)
ESC 1:50

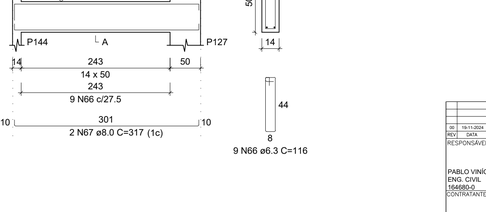


SEÇÃO A-A
ESC 1:25



21 N27 ø6.3 C=116

VB110 (14 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25

21 N30 ø6.3 C=116

VB111 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

21 N32 ø6.3 C=116

VB112 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

10 N35 ø6.3 C=116

VB113 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

21 N38 ø6.3 C=116

VB114 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

21 N41 ø6.3 C=116

VB115 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

10 N44 ø6.3 C=116

VB116 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

21 N47 ø6.3 C=116

VB117 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

22 N50 ø6.3 C=116

VB118 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

21 N53 ø6.3 C=116

VB119 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

10 N56 ø6.3 C=116

VB120 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

21 N59 ø6.3 C=116

VB121 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

23 N62 ø6.3 C=116

VB122 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

9 N66 ø6.3 C=116

RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB100	CA50	1	6.3	22	116	2552
	CA50	2	8.0	2	657	1314
	CA50	3	8.0	1	130	130
	CA50	4	8.0	2	691	1382
VB101	CA50	5	6.3	9	116	1044
	CA50	6	8.0	4	335	1340
VB102	CA50	7	6.3	22	116	2552
	CA50	8	8.0	4	698	2792
	CA50	9	8.0	1	130	130
VB103	CA50	10	6.3	21	116	2436
	CA50	11	10.0	4	678	2712
VB104	CA50	12	6.3	22	116	2552
	CA50	13	8.0	4	698	2792
	CA50	14	8.0	1	130	130
VB105	CA50	15	6.3	9	116	1044
	CA50	16	8.0	4	335	1340
VB106	CA50	17	6.3	22	116	2552
	CA50	18	8.0	2	657	1314
	CA50	19	8.0	1	130	130
	CA50	20	8.0	2	691	1382
VB107	CA50	21	6.3	21	116	2436
	CA50	22	8.0	2	639	1278
	CA50	23	8.0	2	673	1346
VB108	CA50	24	6.3	10	116	1160
	CA50	25	8.0	2	299	598
	CA50	26	8.0	2	333	666
VB109	CA50	27	6.3	21	116	2436
	CA50	28	8.0	2	680	1360
	CA50	29	8.0	2	697	1394
VB110	CA50	30	6.3	21	116	2436
	CA50	31	10.0	4	678	2712
VB111	CA50	32	6.3	21	116	2436
	CA50	33	8.0	2	680	1360
	CA50	34	8.0	2	697	1394
VB112	CA50	35	6.3	10	116	1160
	CA50	36	8.0	2	299	598
	CA50	37	8.0	2	333	666
VB113	CA50	38	6.3	21	116	2436
	CA50	39	8.0	2	639	1278
	CA50	40	8.0	2	673	1346
VB114	CA50	41	6.3	21	116	2436
	CA50	42	8.0	2	639	1278
	CA50	43	8.0	2	673	1346
VB115	CA50	44	6.3	10	116	1160
	CA50	45	8.0	2	299	598
	CA50	46	8.0	2	333	666
VB116	CA50	47	6.3	21	116	2436
	CA50	48	8.0	2	644	1288
	CA50	49	8.0	2	678	1356
VB117	CA50	50	6.3	22	116	2552
	CA50	51	8.0	2	679	1358
	CA50	52	8.0	2	713	1426
VB118	CA50	53	6.3	21	116	2436
	CA50	54	8.0	2	644	1288
	CA50	55	8.0	2	678	1356
VB119	CA50	56	6.3	10	116	1160
	CA50	57	8.0	2	299	598
	CA50	58	8.0	2	333	666
VB120	CA50	59	6.3	21	116	2436
	CA50	60	8.0	2	639	1278
	CA50	61	8.0	2	673	1346
VB121	CA50	62	6.3	23	116	2668
	CA50	63	8.0	2	639	1278
	CA50	64	8.0	1	140	140
	CA50	65	8.0	2	690	1380
VB122	CA50	66	6.3	9	116	1044
	CA50	67	8.0	2	317	634
	CA50	68	8.0	2	334	668

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	475.6	128
	8.0	474.1	205.8
	10.0	54.2	36.8
PESO TOTAL (kg)			
CA50	370.6		

Volume de concreto (C-30) = 7.53 m³
Área de forma = 122.79 m²

REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	19-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO: PABLO VINICIUS RIGO ENG. CIVIL 164693-0
CONTRATANTE:

PABLO VINICIUS RIGO:06875439913
Assinado de forma digital por PABLO VINICIUS RIGO:06875439913
Dados: 2024.12.03 16:20:06 -03'00'

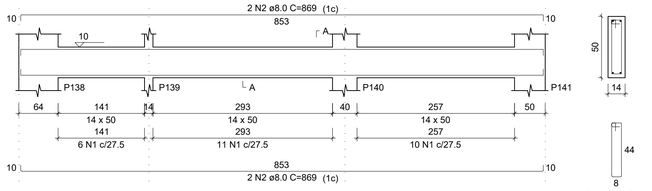
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DAS VIGAS
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: —
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 28-33

FORMATO A1 - 841x594mm

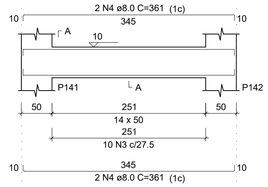
VB74 (14 x 50)
ESC 1:50



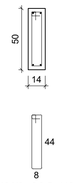
SEÇÃO A-A
ESC 1:25

27 N1 ø6.3 C=116

VB75 (14 x 50)
ESC 1:50

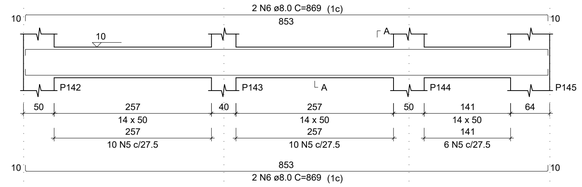


SEÇÃO A-A
ESC 1:25

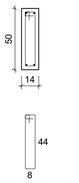


10 N3 ø6.3 C=116

VB76 (14 x 50)
ESC 1:50

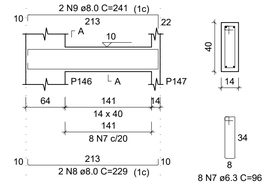


SEÇÃO A-A
ESC 1:25

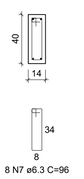


26 N5 ø6.3 C=116

VB77 (14 x 40)
ESC 1:50

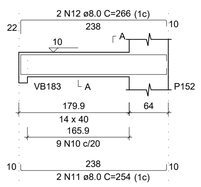


SEÇÃO A-A
ESC 1:25

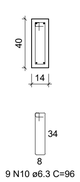


8 N7 ø6.3 C=96

VB78 (14 x 40)
ESC 1:50

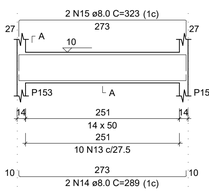


SEÇÃO A-A
ESC 1:25

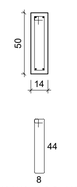


9 N10 ø6.3 C=96

VB79 (14 x 50)
ESC 1:50

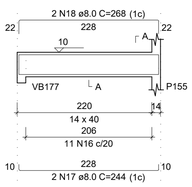


SEÇÃO A-A
ESC 1:25

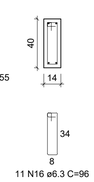


10 N13 ø6.3 C=116

VB80 (14 x 40)
ESC 1:50

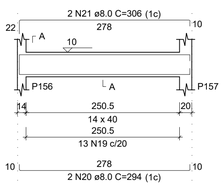


SEÇÃO A-A
ESC 1:25

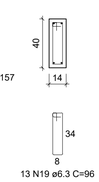


11 N16 ø6.3 C=96

VB81 (14 x 40)
ESC 1:50

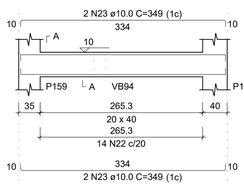


SEÇÃO A-A
ESC 1:25

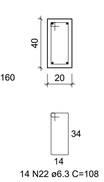


13 N19 ø6.3 C=96

VB82 (20 x 40)
ESC 1:50

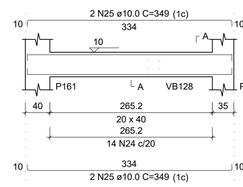


SEÇÃO A-A
ESC 1:25

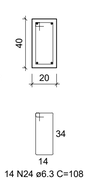


14 N22 ø6.3 C=108

VB83 (20 x 40)
ESC 1:50

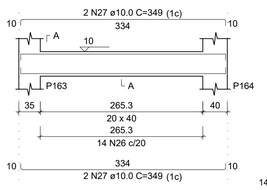


SEÇÃO A-A
ESC 1:25

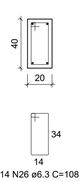


14 N24 ø6.3 C=108

VB84 (20 x 40)
ESC 1:50

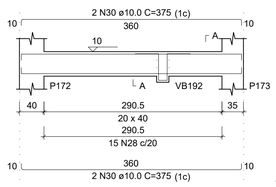


SEÇÃO A-A
ESC 1:25

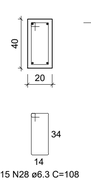


14 N26 ø6.3 C=108

VB85 (20 x 40)
ESC 1:50

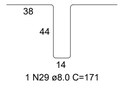


SEÇÃO A-A
ESC 1:25



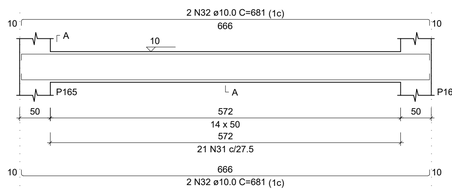
15 N28 ø6.3 C=108

SUSPENSÃO VB192
ESC 1:25

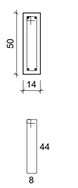


1 N29 ø8.0 C=171

VB86 (14 x 50)
ESC 1:50

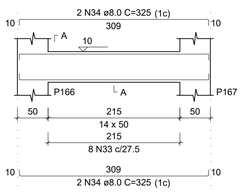


SEÇÃO A-A
ESC 1:25

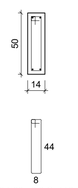


21 N31 ø6.3 C=116

VB87 (14 x 50)
ESC 1:50

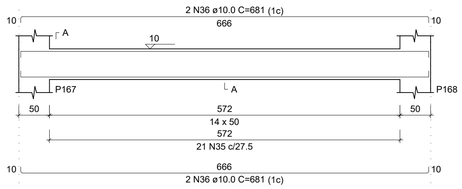


SEÇÃO A-A
ESC 1:25

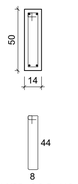


8 N33 ø6.3 C=116

VB88 (14 x 50)
ESC 1:50

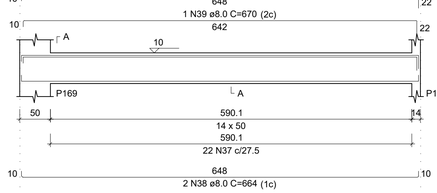


SEÇÃO A-A
ESC 1:25

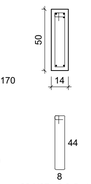


21 N35 ø6.3 C=116

VB89 (14 x 50)
ESC 1:50

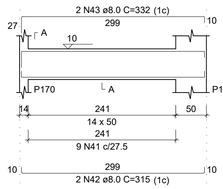


SEÇÃO A-A
ESC 1:25

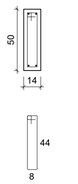


22 N37 ø6.3 C=116

VB90 (14 x 50)
ESC 1:50

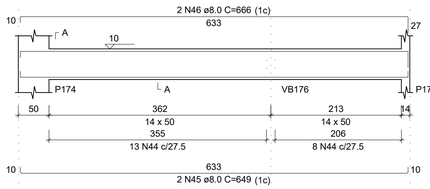


SEÇÃO A-A
ESC 1:25

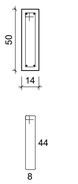


9 N41 ø6.3 C=116

VB91 (14 x 50)
ESC 1:50

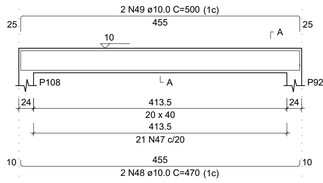


SEÇÃO A-A
ESC 1:25

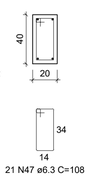


21 N44 ø6.3 C=116

VB92 (20 x 40)
ESC 1:50

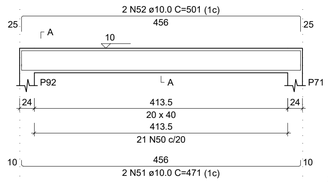


SEÇÃO A-A
ESC 1:25

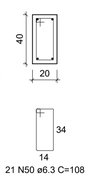


21 N47 ø6.3 C=108

VB93 (20 x 40)
ESC 1:50

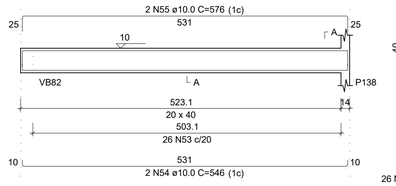


SEÇÃO A-A
ESC 1:25

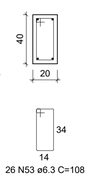


21 N50 ø6.3 C=108

VB94 (20 x 40)
ESC 1:50

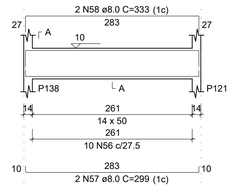


SEÇÃO A-A
ESC 1:25

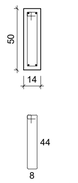


26 N53 ø6.3 C=108

VB95 (14 x 50)
ESC 1:50

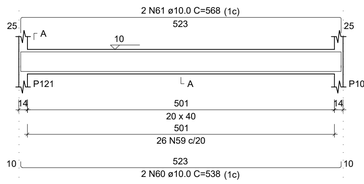


SEÇÃO A-A
ESC 1:25

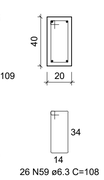


10 N56 ø6.3 C=116

VB96 (20 x 40)
ESC 1:50

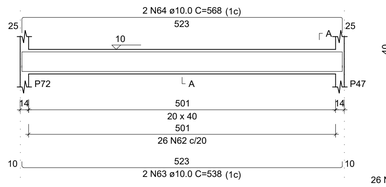


SEÇÃO A-A
ESC 1:25

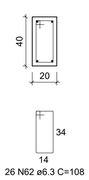


26 N59 ø6.3 C=108

VB97 (20 x 40)
ESC 1:50

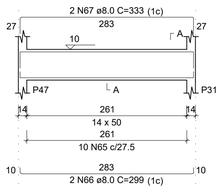


SEÇÃO A-A
ESC 1:25

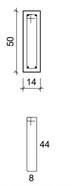


26 N62 ø6.3 C=108

VB98 (14 x 50)
ESC 1:50

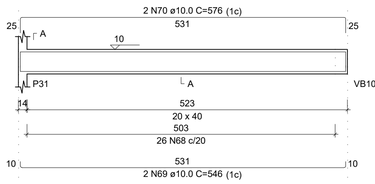


SEÇÃO A-A
ESC 1:25

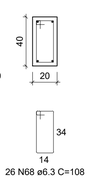


10 N65 ø6.3 C=116

VB99 (20 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25



26 N68 ø6.3 C=108

RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB74	CA50	1	6.3	27	116	3132
	CA50	2	8.0	4	869	3476
VB75	CA50	3	6.3	10	116	1160
	CA50	4	8.0	4	361	1444
VB76	CA50	5	6.3	26	116	3016
	CA50	6	8.0	4	869	3476
VB77	CA50	7	6.3	8	96	768
	CA50	8	8.0	2	229	458
	CA50	9	8.0	2	241	482
VB78	CA50	10	6.3	9	96	864
	CA50	11	8.0	2	254	508
VB79	CA50	12	8.0	2	266	532
	CA50	13	6.3	10	116	1160
	CA50	14	8.0	2	289	578
VB80	CA50	15	8.0	2	323	646
	CA50	16	6.3	11	96	1056
	CA50	17	8.0	2	244	488
VB81	CA50	18	8.0	2	268	536
	CA50	19	6.3	13	96	1248
	CA50	20	8.0	2	294	588
VB82	CA50	21	8.0	2	306	612
	CA50	22	6.3	14	108	1512
VB83	CA50	23	10.0	4	349	1396
	CA50	24	6.3	14	108	1512
VB84	CA50	25	10.0	4	349	1396
	CA50	26	6.3	14	108	1512
VB85	CA50	27	10.0	4	349	1396
	CA50	28	6.3	15	108	1620
	CA50	29	8.0	1	171	171
VB86	CA50	30	10.0	4	375	1500
	CA50	31	6.3	21	116	2436
VB87	CA50	32	10.0	4	681	2724
	CA50	33	6.3	8	116	928
VB88	CA50	34	8.0	4	325	1300
	CA50	35	6.3	21	116	2436
VB89	CA50	36	10.0	4	681	2724
	CA50	37	6.3	22	116	2552
	CA50	38	8.0	2	664	1328
	CA50	39	8.0	1	670	670
	CA50	40	8.0	2	676	1352
VB90	CA50	41	6.3	9	116	1044
	CA50	42	8.0	2	315	630
	CA50	43	8.0	2	332	664
VB91	CA50	44	6.3	21	116	2436
	CA50	45	8.0	2	649	1298
	CA50	46	8.0	2	666	1332
VB92	CA50	47	6.3	21	108	2268
	CA50	48	10.0	2	470	940
	CA50	49	10.0	2	500	1000
VB93	CA50	50	6.3	21	108	2268
	CA50	51	10.0	2	471	942
	CA50	52	10.0	2	501	1002
VB94	CA50	53	6.3	26	108	2808
	CA50	54	10.0	2	546	1092
VB95	CA50	55	10.0	2	576	1152
	CA50	56	6.3	10	116	1160
	CA50	57	8.0	2	299	598
VB96	CA50	58	8.0	2	333	666
	CA50	59	6.3	26	108	2808
	CA50	60	10.0	2	538	1076
VB97	CA50	61	10.0	2	568	1136
	CA50	62	6.3	26	108	2808
	CA50	63	10.0	2	538	1076
VB98	CA50	64	10.0	2	568	1136
	CA50	65	6.3	10	116	1160
	CA50	66	8.0	2	299	598
VB99	CA50	67	8.0	2	333	666
	CA50	68	6.3	26	108	2808
	CA50	69	10.0	2	546	1092
	CA50	70	10.0	2	576	1152

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	484.8	130.5
	8.0	251	108.9
	10.0	239.3	162.3
PESO TOTAL (kg)			
CA50	401.7		

Volume de concreto (C-30) = 7.18 m³
Área de forma = 105.08 m²

REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	15-11-2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
164680-D
CONTRATANTE:

PABLO VINICIUS RIGO:06875439913 — Assinado de forma digital por PABLO VINICIUS RIGO:06875439913 Dados: 2024.12.03 16:20:55 -03'00'

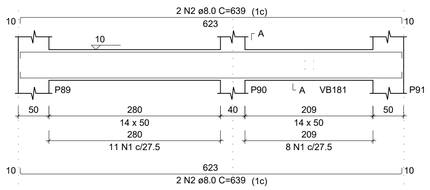
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

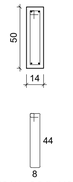
PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DAS VIGAS — ESCALA: 1:100
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro — ESTACA: ----
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG — FOLHA: 29-33

FORMATO A1 - 841x594mm

VB50 (14 x 50)
ESC 1:50

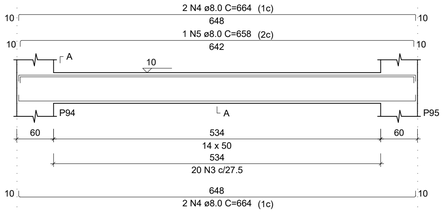


SEÇÃO A-A
ESC 1:25

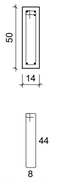


19 N1 ø6.3 C=116

VB51 (14 x 50)
ESC 1:50

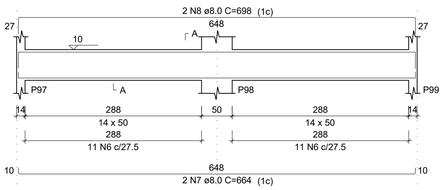


SEÇÃO A-A
ESC 1:25

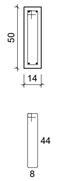


20 N3 ø6.3 C=116

VB52 (14 x 50)
ESC 1:50

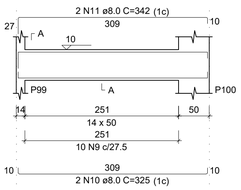


SEÇÃO A-A
ESC 1:25

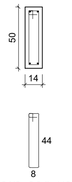


22 N6 ø6.3 C=116

VB53 (14 x 50)
ESC 1:50

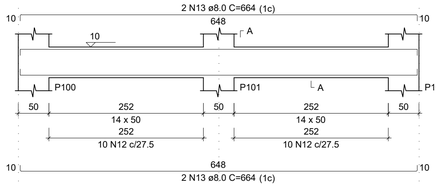


SEÇÃO A-A
ESC 1:25

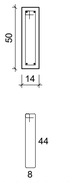


10 N9 ø6.3 C=116

VB54 (14 x 50)
ESC 1:50

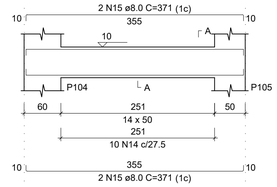


SEÇÃO A-A
ESC 1:25

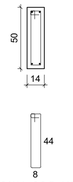


20 N12 ø6.3 C=116

VB55 (14 x 50)
ESC 1:50

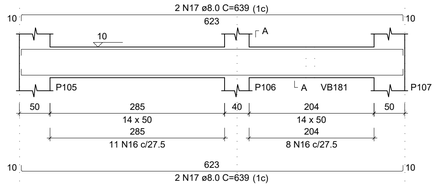


SEÇÃO A-A
ESC 1:25

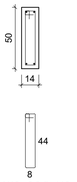


10 N14 ø6.3 C=116

VB56 (14 x 50)
ESC 1:50

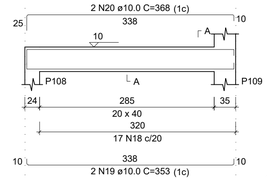


SEÇÃO A-A
ESC 1:25

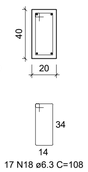


19 N16 ø6.3 C=116

VB57 (20 x 40)
ESC 1:50

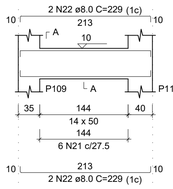


SEÇÃO A-A
ESC 1:25

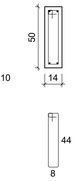


17 N18 ø6.3 C=108

VB58 (14 x 50)
ESC 1:50

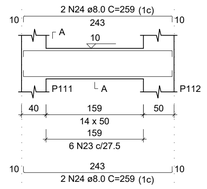


SEÇÃO A-A
ESC 1:25

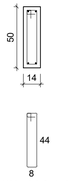


6 N21 ø6.3 C=116

VB59 (14 x 50)
ESC 1:50

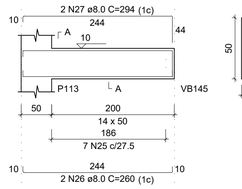


SEÇÃO A-A
ESC 1:25

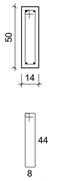


6 N23 ø6.3 C=116

VB60 (14 x 50)
ESC 1:50

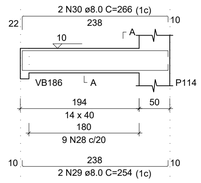


SEÇÃO A-A
ESC 1:25

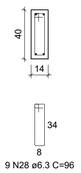


7 N25 ø6.3 C=116

VB61 (14 x 40)
ESC 1:50

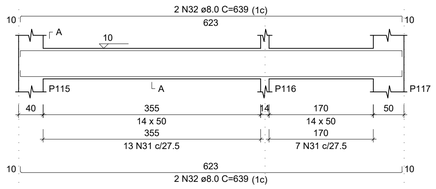


SEÇÃO A-A
ESC 1:25

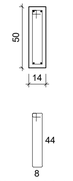


9 N28 ø6.3 C=96

VB62 (14 x 50)
ESC 1:50

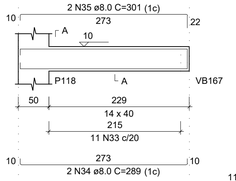


SEÇÃO A-A
ESC 1:25

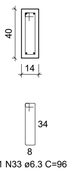


20 N31 ø6.3 C=116

VB63 (14 x 40)
ESC 1:50

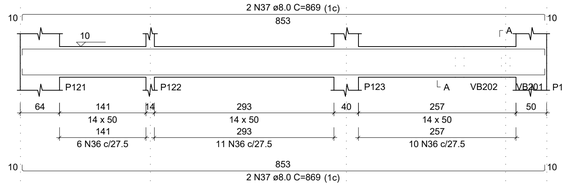


SEÇÃO A-A
ESC 1:25

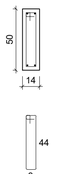


11 N33 ø6.3 C=96

VB64 (14 x 50)
ESC 1:50

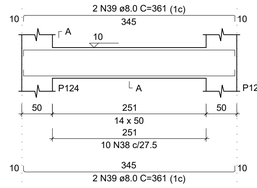


SEÇÃO A-A
ESC 1:25

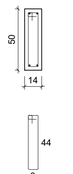


27 N36 ø6.3 C=116

VB65 (14 x 50)
ESC 1:50

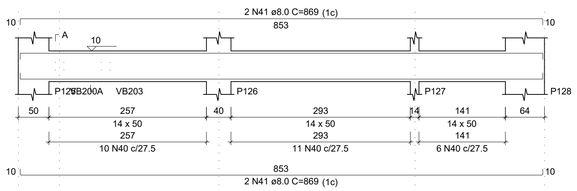


SEÇÃO A-A
ESC 1:25

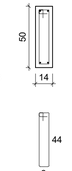


10 N38 ø6.3 C=116

VB66 (14 x 50)
ESC 1:50

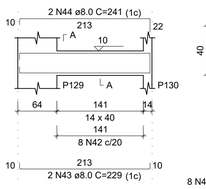


SEÇÃO A-A
ESC 1:25

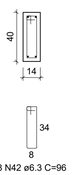


27 N40 ø6.3 C=116

VB67 (14 x 40)
ESC 1:50

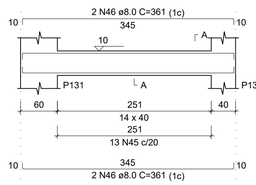


SEÇÃO A-A
ESC 1:25

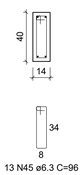


8 N42 ø6.3 C=96

VB68 (14 x 40)
ESC 1:50

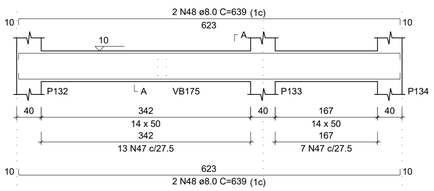


SEÇÃO A-A
ESC 1:25

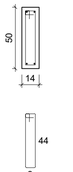


13 N45 ø6.3 C=96

VB69 (14 x 50)
ESC 1:50

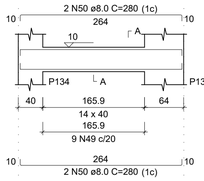


SEÇÃO A-A
ESC 1:25

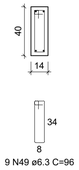


20 N47 ø6.3 C=116

VB70 (14 x 40)
ESC 1:50

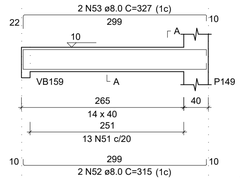


SEÇÃO A-A
ESC 1:25

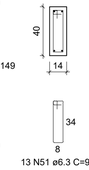


9 N49 ø6.3 C=96

VB71 (14 x 40)
ESC 1:50

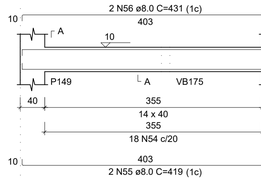


SEÇÃO A-A
ESC 1:25

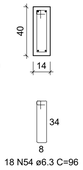


13 N51 ø6.3 C=96

VB72 (14 x 40)
ESC 1:50

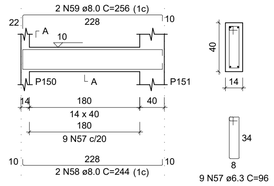


SEÇÃO A-A
ESC 1:25

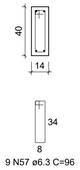


18 N54 ø6.3 C=96

VB73 (14 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25



9 N57 ø6.3 C=96

RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB50	CA50	1	6.3	19	116	2204
	CA50	2	8.0	4	639	2556
VB51	CA50	3	6.3	20	116	2320
	CA50	4	8.0	4	664	2656
	CA50	5	8.0	1	658	658
VB52	CA50	6	6.3	22	116	2552
	CA50	7	8.0	2	664	1328
	CA50	8	8.0	2	698	1396
VB53	CA50	9	6.3	10	116	1160
	CA50	10	8.0	2	325	650
	CA50	11	8.0	2	342	684
VB54	CA50	12	6.3	20	116	2320
	CA50	13	8.0	4	664	2656
VB55	CA50	14	6.3	10	116	1160
	CA50	15	8.0	4	371	1484
VB56	CA50	16	6.3	19	116	2204
	CA50	17	8.0	4	639	2556
VB57	CA50	18	6.3	17	108	1836
	CA50	19	10.0	2	353	706
	CA50	20	10.0	2	368	736
VB58	CA50	21	6.3	6	116	696
	CA50	22	8.0	4	229	916
VB59	CA50	23	6.3	6	116	696
	CA50	24	8.0	4	259	1036
VB60	CA50	25	6.3	7	116	812
	CA50	26	8.0	2	260	520
	CA50	27	8.0	2	294	588
VB61	CA50	28	6.3	9	96	864
	CA50	29	8.0	2	254	508
	CA50	30	8.0	2	266	532
VB62	CA50	31	6.3	20	116	2320
	CA50	32	8.0	4	639	2556
VB63	CA50	33	6.3	11	96	1056
	CA50	34	8.0	2	289	578
	CA50	35	8.0	2	301	602
VB64	CA50	36	6.3	27	116	3132
	CA50	37	8.0	4	869	3476
VB65	CA50	38	6.3	10	116	1160
	CA50	39	8.0	4	361	1444
VB66	CA50	40	6.3	27	116	3132
	CA50	41	8.0	4	869	3476
VB67	CA50	42	6.3	8	96	768
	CA50	43	8.0	2	229	458
	CA50	44	8.0	2	241	482
VB68	CA50	45	6.3	13	96	1248
	CA50	46	8.0	4	361	1444
VB69	CA50	47	6.3	20	116	2320
	CA50	48	8.0	4	639	2556
VB70	CA50	49	6.3	9	96	864
	CA50	50	8.0	4	280	1120
VB71	CA50	51	6.3	13	96	1248
	CA50	52	8.0	2	315	630
	CA50	53	8.0	2	327	654
VB72	CA50	54	6.3	18	96	1728
	CA50	55	8.0	2	419	838
	CA50	56	8.0	2	431	862
VB73	CA50	57	6.3	9	96	864
	CA50	58	8.0	2	244	488
	CA50	59	8.0	2	256	512

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	386.6	104.1
	8.0	429	186.2
	10.0	14.4	9.8
PESO TOTAL (kg)			
CA50	300.1		

Volume de concreto (C-30) = 5.59 m³
Área de forma = 90.87 m²

00	19/11/2024	PABLO	EMISSÃO INICIAL	AMVALI
REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO

RESPONSÁVEL TÉCNICO:
PABLO VINICIUS RIGO
ENG. CIVIL
164680-0
CONTRATANTE:

PABLO VINICIUS RIGO:068754399 13
Assinado de forma digital por PABLO VINICIUS RIGO:068754399 13
Dados: 2024.12.03 16:21:45 -03'00'

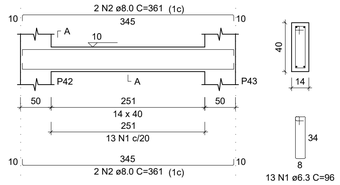
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO:
PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DAS VIGAS
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: ---
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 30-33

FORMATO A1 - 841x594mm

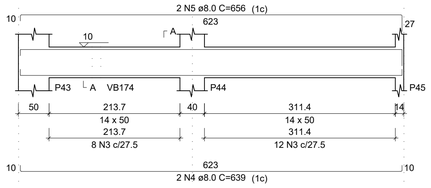
VB24 (14 x 40)
ESC 1:50



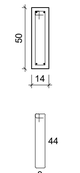
SEÇÃO A-A
ESC 1:25

13 N1 ø6.3 C=96

VB25 (14 x 50)
ESC 1:50

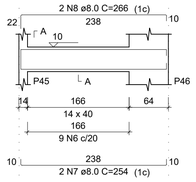


SEÇÃO A-A
ESC 1:25

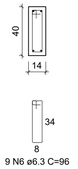


20 N3 ø6.3 C=116

VB26 (14 x 40)
ESC 1:50

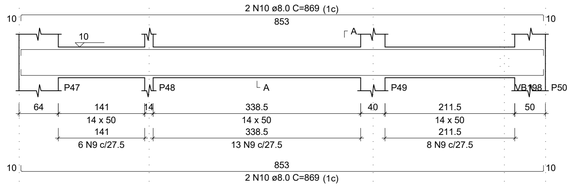


SEÇÃO A-A
ESC 1:25

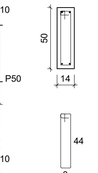


9 N6 ø6.3 C=96

VB27 (14 x 50)
ESC 1:50

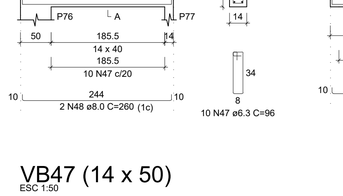


SEÇÃO A-A
ESC 1:25



27 N9 ø6.3 C=116

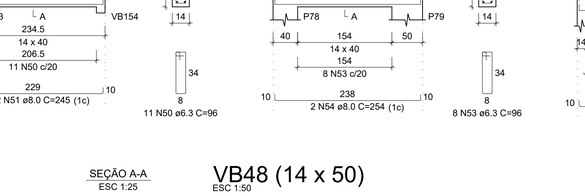
VB28 (14 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25

10 N11 ø6.3 C=116

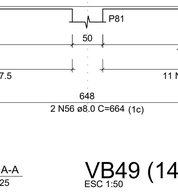
VB29 (14 x 50)
ESC 1:50



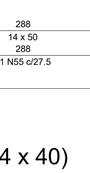
SEÇÃO A-A
ESC 1:25

27 N13 ø6.3 C=116

VB30 (14 x 40)
ESC 1:50

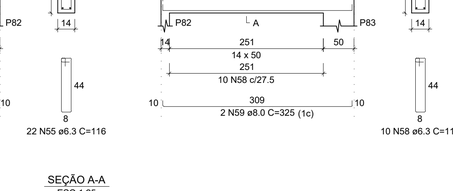


SEÇÃO A-A
ESC 1:25



11 N15 ø6.3 C=96

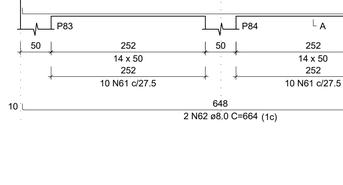
VB31 (14 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25

21 N18 ø6.3 C=116

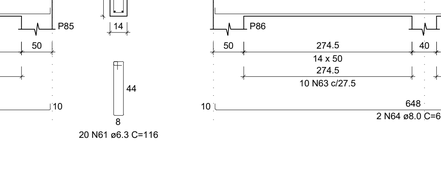
VB32 (14 x 40)
ESC 1:50



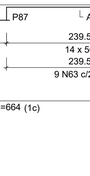
SEÇÃO A-A
ESC 1:25

13 N21 ø6.3 C=96

VB33 (14 x 50)
ESC 1:50

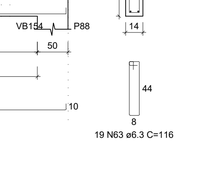


SEÇÃO A-A
ESC 1:25

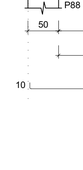


20 N23 ø6.3 C=116

VB34 (14 x 40)
ESC 1:50

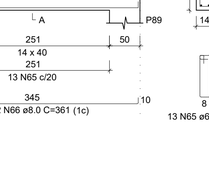


SEÇÃO A-A
ESC 1:25

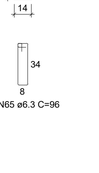


9 N26 ø6.3 C=96

VB35 (14 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25



11 N29 ø6.3 C=96

VB36 (14 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25

15 N32 ø6.3 C=96

VB37 (14 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25

10 N35 ø6.3 C=96

VB38 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

18 N38 ø6.3 C=116

VB39 (20 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25

17 N40 ø6.3 C=108

VB40 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

5 N43 ø6.3 C=116

VB41 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

6 N45 ø6.3 C=116

VB42 (14 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25

10 N47 ø6.3 C=96

VB43 (14 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25

11 N50 ø6.3 C=96

VB44 (14 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25

8 N53 ø6.3 C=96

VB45 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

22 N55 ø6.3 C=116

VB46 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

10 N58 ø6.3 C=116

VB47 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

20 N61 ø6.3 C=116

VB48 (14 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

19 N63 ø6.3 C=116

VB49 (14 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25

13 N65 ø6.3 C=96

RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB24	CA50	1	6.3	13	96	1248
	CA50	2	8.0	4	361	1444
VB25	CA50	3	6.3	20	116	2320
	CA50	4	8.0	2	639	1278
	CA50	5	8.0	2	656	1312
VB26	CA50	6	6.3	9	96	864
	CA50	7	8.0	2	254	508
	CA50	8	8.0	2	266	532
VB27	CA50	9	6.3	27	116	3132
	CA50	10	8.0	4	869	3476
VB28	CA50	11	6.3	10	116	1160
	CA50	12	8.0	4	362	1448
VB29	CA50	13	6.3	27	116	3132
	CA50	14	8.0	4	868	3472
VB30	CA50	15	6.3	11	96	1056
	CA50	16	8.0	2	230	460
	CA50	17	8.0	2	266	532
VB31	CA50	18	6.3	21	116	2436
	CA50	19	8.0	2	664	1328
	CA50	20	8.0	2	681	1362
VB32	CA50	21	6.3	13	96	1248
	CA50	22	8.0	4	361	1444
VB33	CA50	23	6.3	20	116	2320
	CA50	24	8.0	2	639	1278
	CA50	25	8.0	2	656	1312
VB34	CA50	26	6.3	9	96	864
	CA50	27	8.0	2	254	508
	CA50	28	8.0	2	266	532
VB35	CA50	29	6.3	11	96	1056
	CA50	30	8.0	2	245	490
	CA50	31	8.0	2	269	538
VB36	CA50	32	6.3	15	96	1440
	CA50	33	8.0	2	362	724
	CA50	34	8.0	2	374	748
VB37	CA50	35	6.3	10	96	960
	CA50	36	8.0	2	257	514
	CA50	37	8.0	2	269	538
VB38	CA50	38	6.3	18	116	2088
	CA50	39	8.0	4	639	2556
VB39	CA50	40	6.3	17	108	1836
	CA50	41	10.0	2	353	706
	CA50	42	10.0	2	368	736
VB40	CA50	43	6.3	5	116	580
	CA50	44	8.0	4	229	916
VB41	CA50	45	6.3	6	116	696
	CA50	46	8.0	4	259	1036
VB42	CA50	47	6.3	10	96	960
	CA50	48	8.0	2	260	520
	CA50	49	8.0	2	272	544
VB43	CA50	50	6.3	11	96	1056
	CA50	51	8.0	2	245	490
	CA50	52	8.0	2	269	538
VB44	CA50	53	6.3	8	96	768
	CA50	54	8.0	4	254	1016
VB45	CA50	55	6.3	22	116	2552
	CA50	56	8.0	2	664	1328
	CA50	57	8.0	2	698	1396
VB46	CA50	58	6.3	10	116	1160
	CA50	59	8.0	2	325	650
	CA50	60	8.0	2	342	684
VB47	CA50	61	6.3	20	116	2320
	CA50	62	8.0	4	664	2656
VB48	CA50	63	6.3	19	116	2204
	CA50	64	8.0	4	664	2656
VB49	CA50	65	6.3	13	96	1248
	CA50	66	8.0	4	361	1444

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	407	109.6
	8.0	442.1	191.9
	10.0	14.4	9.8
PESO TOTAL (kg)			
CA50	311.2		

Volume de concreto (C-30) = 5.72 m³
Área de forma = 93.26 m²

REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	19/11/2024	PABLO	EMISSÃO INICIAL	AMVALI

RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
164680-0
CONTRATANTE:

PABLO VINICIUS RIGO:06875439913
Assinado de forma digital por PABLO VINICIUS RIGO:06875439913
Dados: 2024.12.03 16:22:28 -03'00'

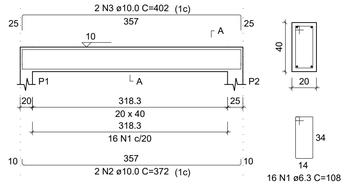
ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO: PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DAS VIGAS
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: ---
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 31-33

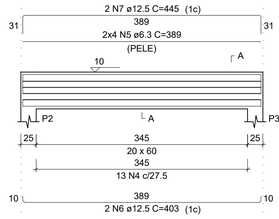
FORMATO A1 - 841x594mm

VB1 (20 x 40)
ESC 1:50



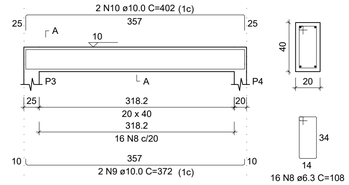
SEÇÃO A-A
ESC 1:25

VB2 (20 x 60)
ESC 1:50



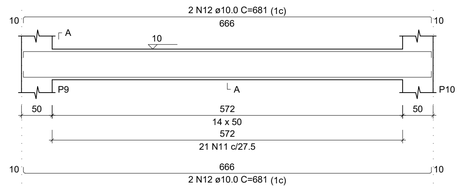
SEÇÃO A-A
ESC 1:25

VB3 (20 x 40)
ESC 1:50



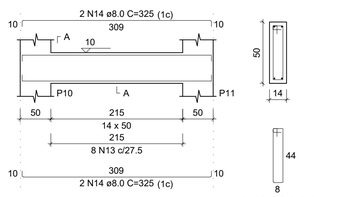
SEÇÃO A-A
ESC 1:25

VB4 (14 x 50)
ESC 1:50



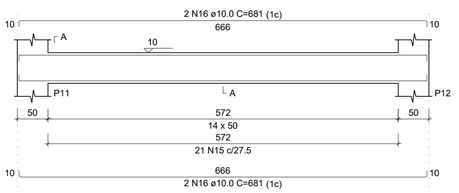
SEÇÃO A-A
ESC 1:25

VB5 (14 x 50)
ESC 1:50



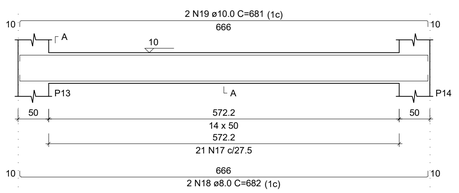
SEÇÃO A-A
ESC 1:25

VB6 (14 x 50)
ESC 1:50



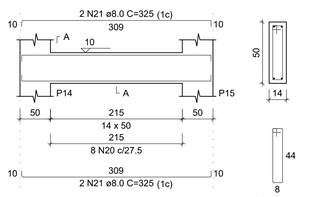
SEÇÃO A-A
ESC 1:25

VB7 (14 x 50)
ESC 1:50



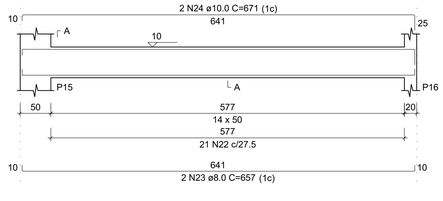
SEÇÃO A-A
ESC 1:25

VB8 (14 x 50)
ESC 1:50



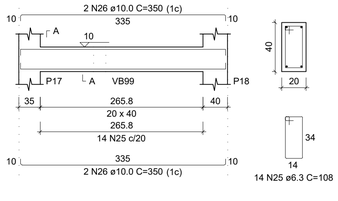
SEÇÃO A-A
ESC 1:25

VB9 (14 x 50)
ESC 1:50



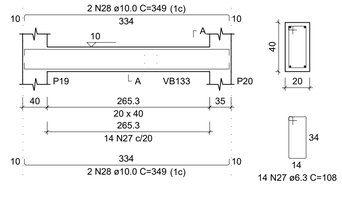
SEÇÃO A-A
ESC 1:25

VB10 (20 x 40)
ESC 1:50



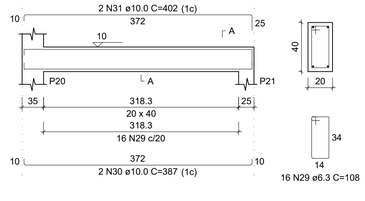
SEÇÃO A-A
ESC 1:25

VB11 (20 x 40)
ESC 1:50



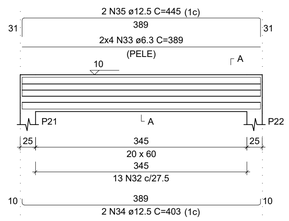
SEÇÃO A-A
ESC 1:25

VB12 (20 x 40)
ESC 1:50



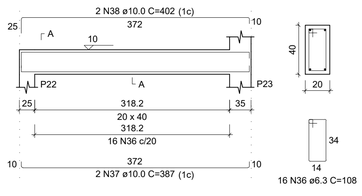
SEÇÃO A-A
ESC 1:25

VB13 (20 x 60)
ESC 1:50



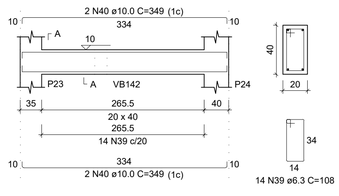
SEÇÃO A-A
ESC 1:25

VB14 (20 x 40)
ESC 1:50



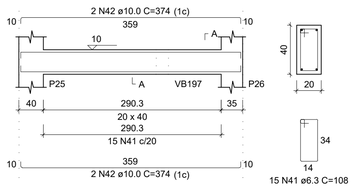
SEÇÃO A-A
ESC 1:25

VB15 (20 x 40)
ESC 1:50



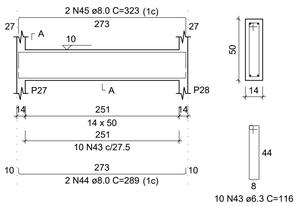
SEÇÃO A-A
ESC 1:25

VB16 (20 x 40)
ESC 1:50



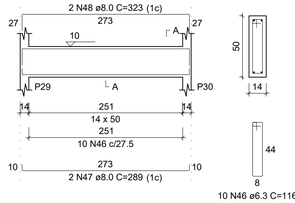
SEÇÃO A-A
ESC 1:25

VB17 (14 x 50)
ESC 1:50



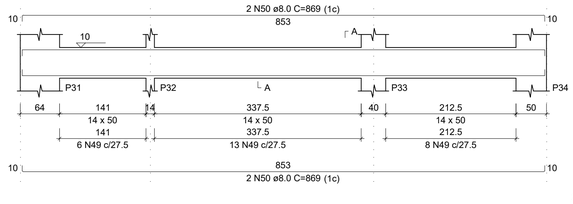
SEÇÃO A-A
ESC 1:25

VB18 (14 x 50)
ESC 1:50



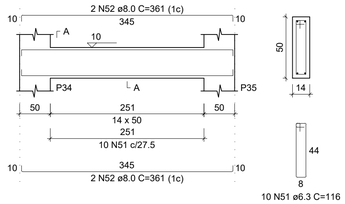
SEÇÃO A-A
ESC 1:25

VB19 (14 x 50)
ESC 1:50



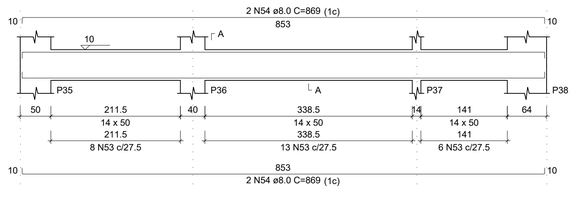
SEÇÃO A-A
ESC 1:25

VB20 (14 x 50)
ESC 1:50



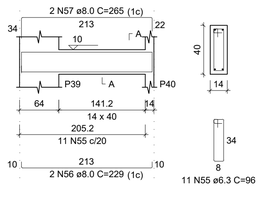
SEÇÃO A-A
ESC 1:25

VB21 (14 x 50)
ESC 1:50



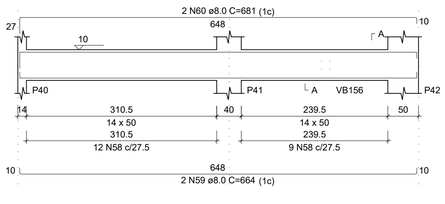
SEÇÃO A-A
ESC 1:25

VB22 (14 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

VB23 (14 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB1	CA50	1	6.3	16	108	1728
	CA50	2	10.0	2	372	744
	CA50	3	10.0	2	402	804
VB2	CA50	4	6.3	13	148	1924
	CA50	5	6.3	8	389	3112
	CA50	6	12.5	2	403	806
	CA50	7	12.5	2	445	890
VB3	CA50	8	6.3	16	108	1728
	CA50	9	10.0	2	372	744
	CA50	10	10.0	2	402	804
VB4	CA50	11	6.3	21	116	2436
	CA50	12	10.0	4	681	2724
VB5	CA50	13	6.3	8	116	928
	CA50	14	8.0	4	325	1300
VB6	CA50	15	6.3	21	116	2436
	CA50	16	10.0	4	681	2724
VB7	CA50	17	6.3	21	116	2436
	CA50	18	8.0	2	682	1364
	CA50	19	10.0	2	681	1362
VB8	CA50	20	6.3	8	116	928
	CA50	21	8.0	4	325	1300
VB9	CA50	22	6.3	21	116	2436
	CA50	23	8.0	2	657	1314
	CA50	24	10.0	2	671	1342
VB10	CA50	25	6.3	14	108	1512
	CA50	26	10.0	4	350	1400
VB11	CA50	27	6.3	14	108	1512
	CA50	28	10.0	4	349	1396
VB12	CA50	29	6.3	16	108	1728
	CA50	30	10.0	2	387	774
	CA50	31	10.0	2	402	804
VB13	CA50	32	6.3	13	148	1924
	CA50	33	6.3	8	389	3112
	CA50	34	12.5	2	403	806
	CA50	35	12.5	2	445	890
VB14	CA50	36	6.3	16	108	1728
	CA50	37	10.0	2	387	774
	CA50	38	10.0	2	402	804
VB15	CA50	39	6.3	14	108	1512
	CA50	40	10.0	4	349	1396
VB16	CA50	41	6.3	15	108	1620
	CA50	42	10.0	4	374	1496
VB17	CA50	43	6.3	10	116	1160
	CA50	44	8.0	2	289	578
	CA50	45	8.0	2	323	646
VB18	CA50	46	6.3	10	116	1160
	CA50	47	8.0	2	289	578
	CA50	48	8.0	2	323	646
VB19	CA50	49	6.3	27	116	3132
	CA50	50	8.0	4	869	3476
VB20	CA50	51	6.3	10	116	1160
	CA50	52	8.0	4	361	1444
VB21	CA50	53	6.3	27	116	3132
	CA50	54	8.0	4	869	3476
VB22	CA50	55	6.3	11	96	1056
	CA50	56	8.0	2	229	458
	CA50	57	8.0	2	265	530
VB23	CA50	58	6.3	21	116	2436
	CA50	59	8.0	2	664	1328
	CA50	60	8.0	2	681	1362

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	479.8	129.1
	8.0	198	85.9
	10.0	200.9	136.3
	12.5	33.9	35.9
PESO TOTAL (kg)			
CA50	387.3		

Volume de concreto (C-30) = 6.58 m³
Área de forma = 93.34 m²

REV	DATA	DESENHO	ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	15/11/2024	PABLO	EMISSÃO INICIAL	AMVALI

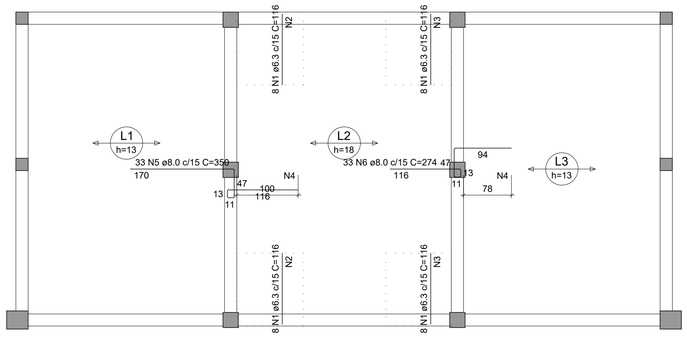
RESPONSÁVEL TÉCNICO:
PABLO VINÍCIUS RIGO
ENG. CIVIL
164680-0
CONTRATANTE:

PABLO VINICIUS RIGO:068754399
13
Assinado de forma digital por PABLO VINICIUS RIGO:068754399113
Dados: 2024.12.03 16:25:18 -03'00'

ELABORAÇÃO: Amvali
CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

TÍTULO: PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA
PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO
CONTEÚDO: DETALHAMENTO DAS ARMADURAS DAS VIGAS
ESCALA: INDICADA
ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro
ESTACA: ---
CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG
FOLHA: 32-33

FORMATO A1 - 841x594mm

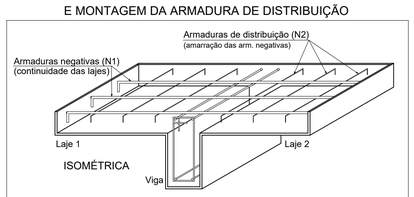


Armação negativa das lajes do pavimento Baldrame

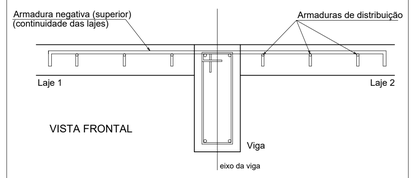
escala 1:50

Armaduras de distribuição	
Armadura	Armadura de distribuição
N1	8 N2 ø6.3 c/15 C=108
N1	8 N2 ø6.3 c/15 C=108
N1	8 N3 ø6.3 c/15 C=107
N1	8 N3 ø6.3 c/15 C=107
N5	19 N4 ø6.3 c/15 C=493
N6	14 N4 ø6.3 c/15 C=493

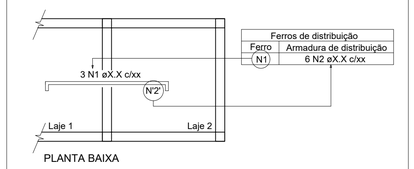
DETALHE DA ARMADURA SUPERIOR DE CONTINUIDADE DA LAJE E MONTAGEM DA ARMADURA DE DISTRIBUIÇÃO



ISOMÉTRICA



VISTA FRONTAL



Ferros de distribuição	
Ferro	Armadura de distribuição
N1	6 N2 øX.X c/xx

PLANTA BAIXA

NOTA: A ARMADURA DE DISTRIBUIÇÃO DAS CONTINUIDADES DEVE SER ININTERRUPTA E COM TRASPASSE (CASO HAJA EMENDAS).

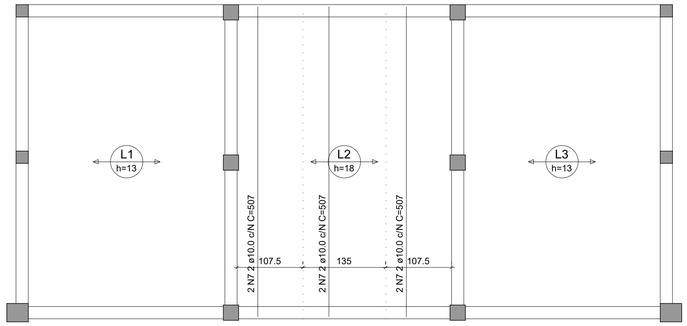
RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
Negativos	CA50	1	6.3	32	116	3712
	CA50	2	6.3	16	108	1728
	CA50	3	6.3	16	107	1712
	CA50	4	6.3	33	493	16269
	CA50	5	8.0	33	350	11550
	CA50	6	8.0	33	274	9042
Positivos	CA50	7	10.0	6	507	3042

RESUMO DO AÇO

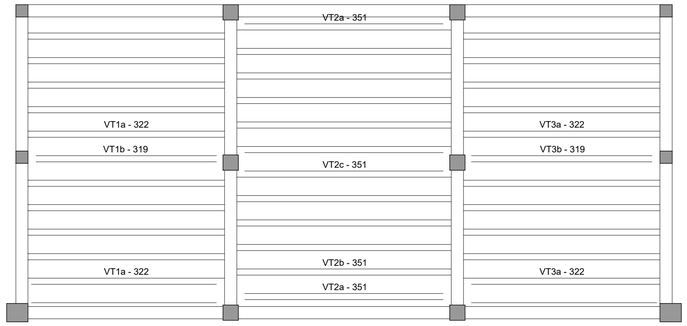
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	234.2	63
	8.0	205.9	89.4
	10.0	30.4	20.6
PESO TOTAL (kg)			
CA50	173.1		

Volume de concreto (C-30) = 3.37 m³
Área de forma = 0.00 m²



Armação positiva das lajes do pavimento Baldrame

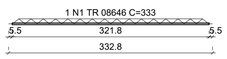
escala 1:50



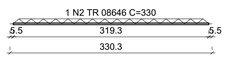
Planta de vigotas pré-moldadas

escala 1:50

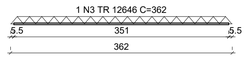
VT1a (10 unidades)
(L1)
ESC 1:50



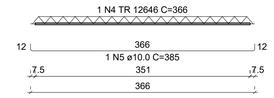
VT1b (1 unidades)
(L1)
ESC 1:50



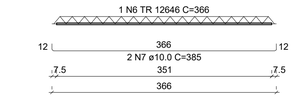
VT2a (2 unidades)
(L2)
ESC 1:50



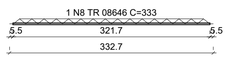
VT2b (4 unidades)
(L2)
ESC 1:50



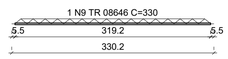
VT2c (6 unidades)
(L2)
ESC 1:50



VT3a (10 unidades)
(L3)
ESC 1:50



VT3b (1 unidades)
(L3)
ESC 1:50



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
10xVT1a	CA60	1	TR 08646	10	333	3330
VT1b	CA60	2	TR 08646	1	330	330
2xVT2a	CA60	3	TR 12646	2	362	724
4xVT2b	CA60	4	TR 12646	4	366	1464
	CA50	5	10.0	4	385	1540
6xVT2c	CA60	6	TR 12646	6	366	2196
	CA50	7	10.0	12	385	4620
10xVT3a	CA60	8	TR 08646	10	333	3330
VT3b	CA60	9	TR 08646	1	330	330

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	61.6	41.8
CA60	TR 08646	73.2	77.4
	TR 12646	43.8	49
PESO TOTAL (kg)			
CA50	41.8		
CA60	126.4		

Volume de concreto (C-30) = 0.00 m³
Área de forma = 0.00 m²

REV	DATA	DESENHO	EMISSÃO INICIAL / ALTERAÇÕES DE PROJETO	VERIFICAÇÃO
00	19/11/2024	PABLO		AMVALI

ELABORAÇÃO: Amvali

CONTRATANTE: PREFEITURA MUNICIPAL DE JARAGUÁ DO SUL

RESPONSÁVEL TÉCNICO: PABLO VINÍCIUS RIGO ENG. CIVIL 164680-0

PABLO VINICIUS RIGO:068754399 13 — Assinado de forma digital por PABLO VINICIUS RIGO:06875439913 Dados: 2024.12.03 16:27:08 -03'00'

CONTRATANTE: govbr — Documento assinado digitalmente
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Verifique em https://validar.iti.gov.br

TÍTULO: PROJETO BÁSICO DE ENGENHARIA
CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL EM ALVENARIA

PROJETO: PROJETO ESTRUTURAL EM CONCRETO ARMADO

CONTEÚDO: DETALHAMENTO DAS ARMADURAS DAS LAJES

ESCALA: INDICADA

ENDEREÇO: Rua Frederico Pieske, Barra do Rio Cerro

ESTACA: ---

CODIFICAÇÃO: AMV-JS-DE-EST-0242-R00- NÍVEL BALDRAME.DWG

FOLHA: 33-33

FORMATO A1 - 841x594mm