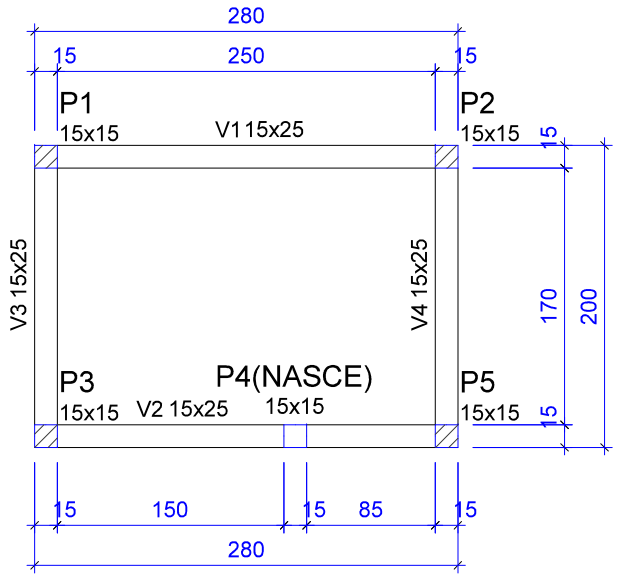
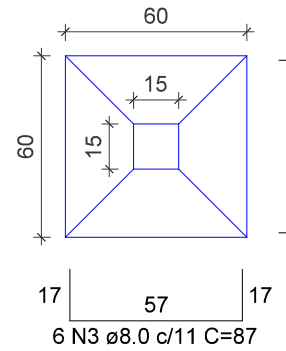


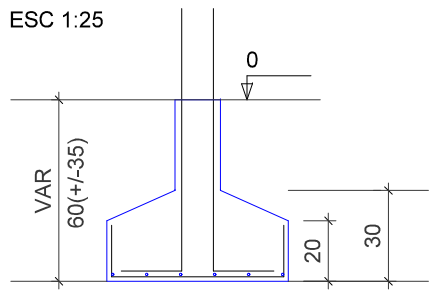
Forma do pavimento Baldrame
escala 1:50

S1=S2=S3=S5

PLANTA
ESC 1:25

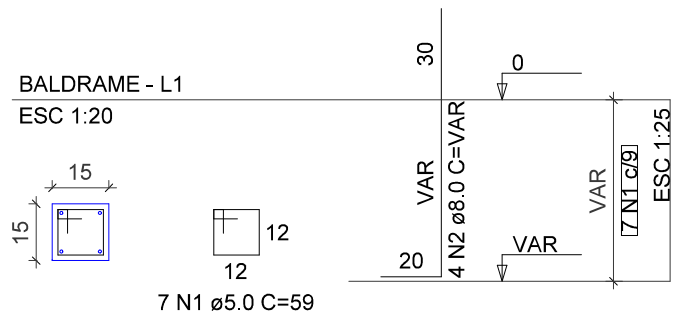


CORTE
ESC 1:25



P1=P2=P3=P5

BALDRAME - L1
ESC 1:20



Solo com capacidade de suporte > 2.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

ARMADURA DE SAPATAS E ARRANQUE PILARES

RELAÇÃO DO AÇO

4xP1 4xS1

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	28	59	1652
CA50	2	8.0	16	VAR	VAR
	3	8.0	48	87	4176

RESUMO DO AÇO

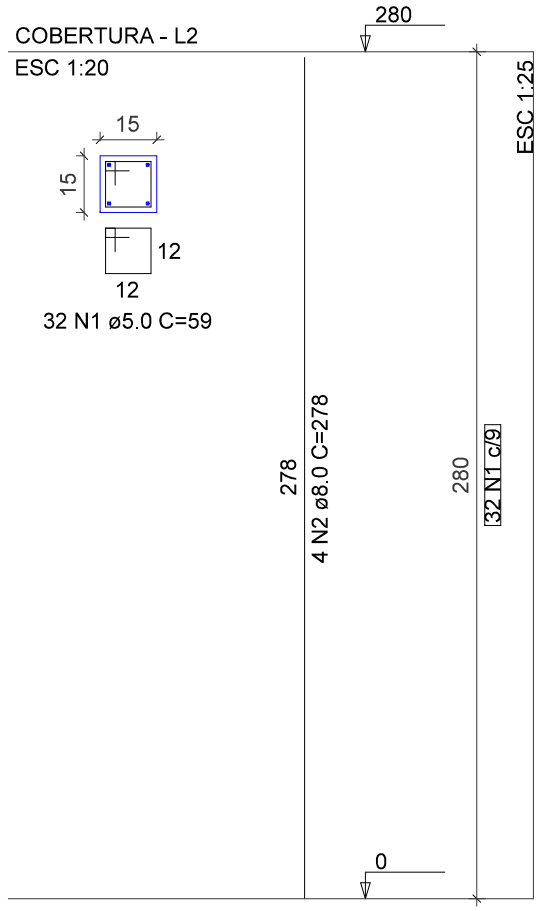
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	58.9	25.6
CA60	5.0	16.5	2.8

PESO TOTAL (kg)	
CA50	25.6
CA60	2.8

Volume de concreto (C-25) = 0.05 m³
Volume de concreto (C-20) = 0.35 m³
Área de forma = 3.36 m²

P1=P2=P3=P4=P5

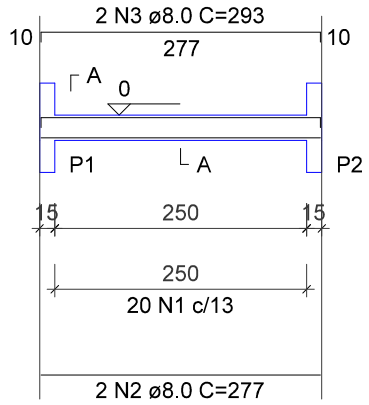
COBERTURA - L2
ESC 1:20



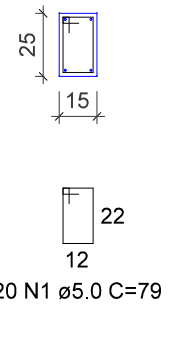
ARMADURA DE PILARES

V1

ESC 1:75

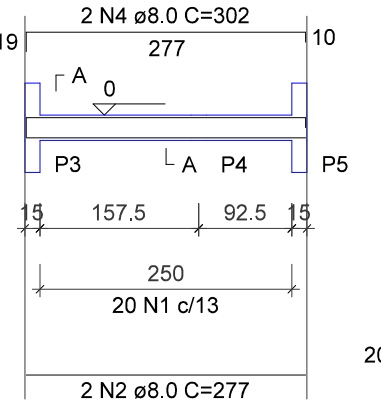


SEÇÃO A-A
ESC 1:30

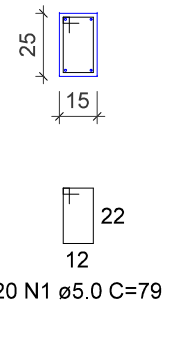


V2

ESC 1:75

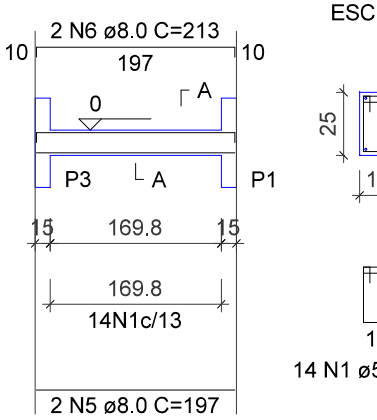


SEÇÃO A-A
ESC 1:30

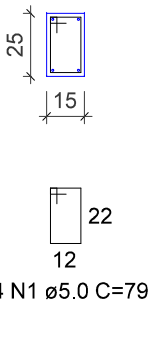


V3

ESC 1:75

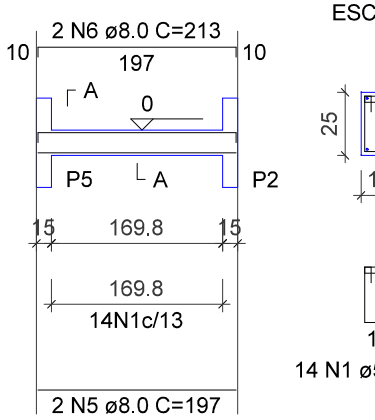


SEÇÃO A-A
ESC 1:30

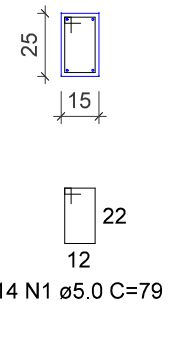


V4

ESC 1:75



SEÇÃO A-A
ESC 1:30



5xP1

RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	160	59	9440
CA50	2	8.0	20	278	5560

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	55.6	24.1
CA60	5.0	94.4	16

PESO TOTAL (kg)	
CA50	24.1
CA60	16

Volume de concreto (C-25) = 0.32 m³
Área de forma = 8.40 m²

RELAÇÃO DO AÇO

V1 V2 V3 V4

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	68	79	5372
CA50	2	8.0	4	277	1108
	3	8.0	2	293	586
	4	8.0	2	302	604
	5	8.0	4	197	788
	6	8.0	4	213	852

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	39.4	17.1
CA60	5.0	53.7	9.1

PESO TOTAL (kg)	
CA50	17.1
CA60	9.1

Volume de concreto (C-25) = 0.36 m³
Área de forma = 6.24 m²

ARMADURA VIGAS BALDRAME

Rua Cônego Pollon, 60
Barão de Cotegipe - RS
CEP 99740-000
e-mail:lcbalestrin@gmail.com
54 9 9624 1505

Desenho: Luís

Escala: Indicada

Endereço:
Rua Tandredo Neves, 320 - EMEF Angelo Rosa
Barão de Cotegipe/RS

Proprietário(a):

MUNICÍPIO DE BARÃO DE COTEGIPE
CNPJ: 87.613.451/0001-82

Tipo do Projeto / Serviço:
EDIFICAÇÃO EM ALVENARIA - GUARITA

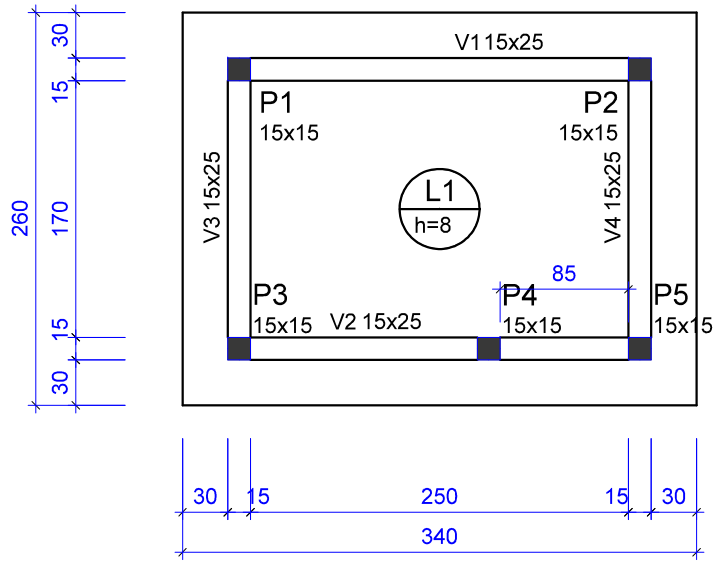
Conteúdo:
PROJETO ESTRUTURAL

Responsável Técnico:
LUIS CARLOS BALESTRIN:65053796068
Assinado digitalmente por LUIS CARLOS BALESTRIN:65053796068
Razão: Responsável Técnico - Mun. Barão de Cotegipe/RS
Localização: Barão de Cotegipe/RS
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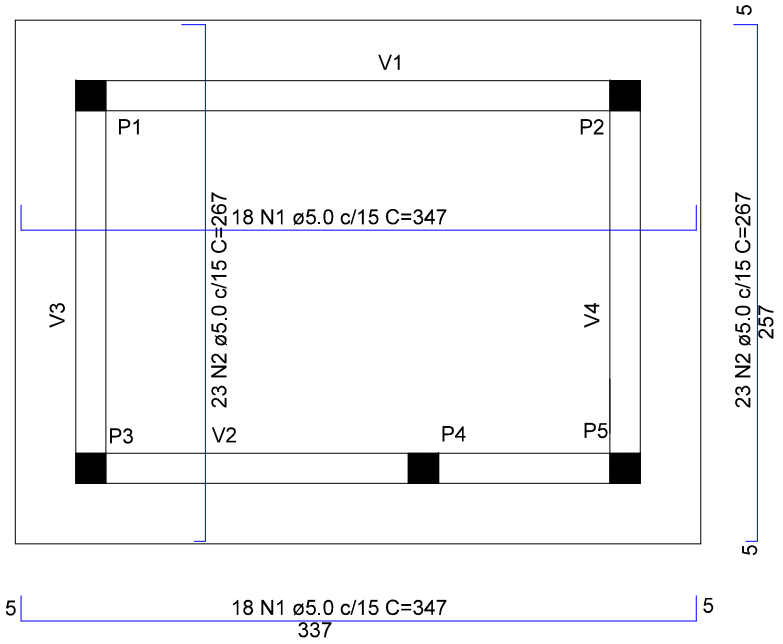
Luís Carlos Balestrin
Eng. Civil CREA RS 096570-D

Prancha: 01/02

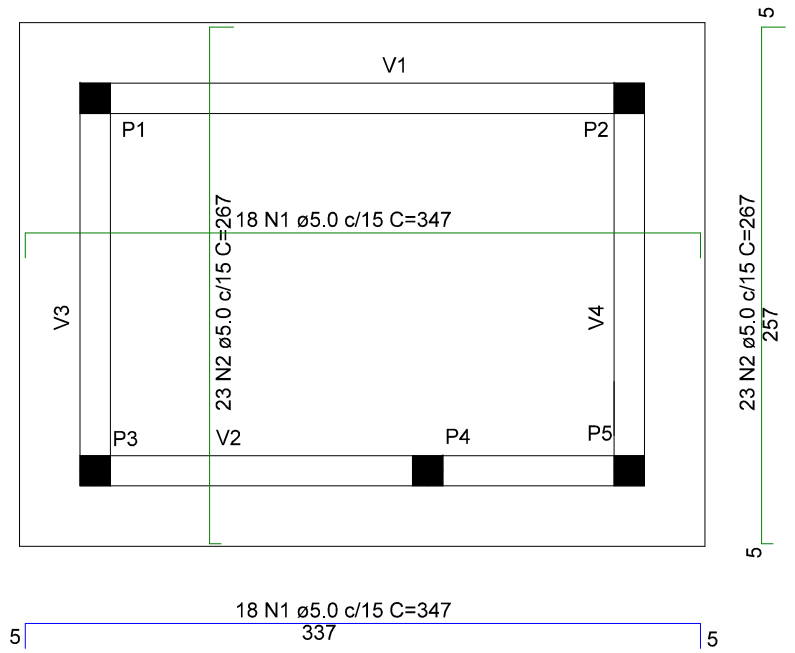
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Forma do pavimento Cobertura
escala 1:50



ARMADURA POSITIVA
LAJE COBERTURA



ARMADURA NEGATIVA
LAJE COBERTURA

RELAÇÃO DO AÇO

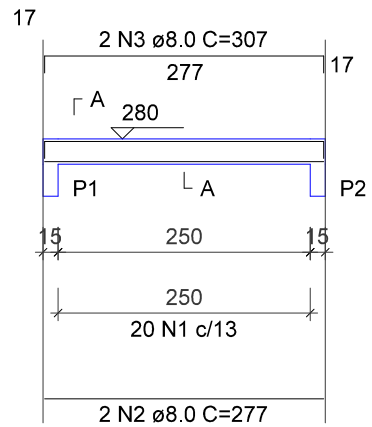
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	36	347	12492
	2	5.0	46	267	12282

RESUMO DO AÇO

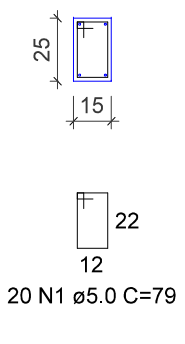
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA60	5.0	247,74	41,96

Volume de concreto (C-25) = 0.70m³
Área de forma = 9,80m²

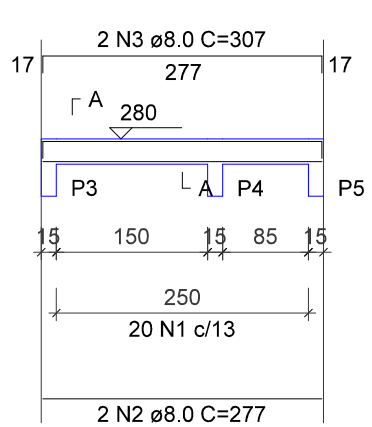
V1
ESC 1:75



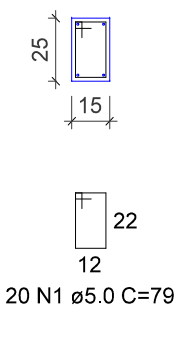
SEÇÃO A-A
ESC 1:30



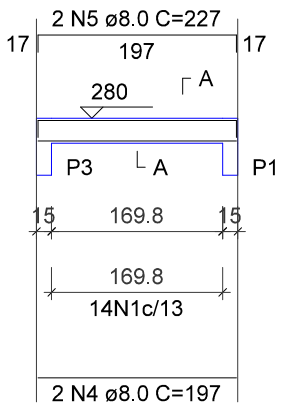
V2
ESC 1:75



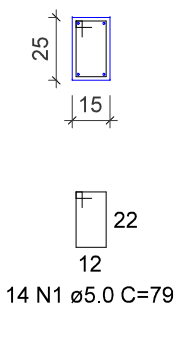
SEÇÃO A-A
ESC 1:30



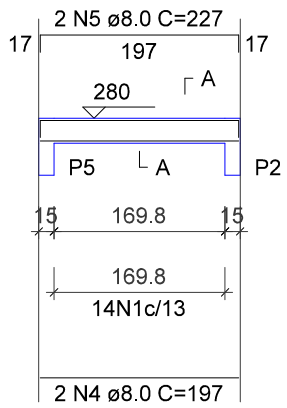
V3
ESC 1:75



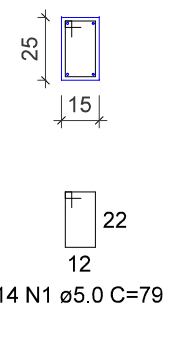
SEÇÃO A-A
ESC 1:30



V4
ESC 1:75



SEÇÃO A-A
ESC 1:30



RELAÇÃO DO AÇO

V1
V4

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	68	79	5372
CA50	2	8.0	4	277	1108
	3	8.0	4	307	1228
	4	8.0	4	197	788
	5	8.0	4	227	908

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	40.3	17.5
CA60	5.0	53.7	9.1

PESO TOTAL (kg)	
CA50	17.5
CA60	9.1

Volume de concreto (C-25) = 0.36 m³
Área de forma = 6.24 m²

Proprietário(a):

MUNICÍPIO DE BARÃO DE COTEGIPE
CNPJ: 87.613.451/0001-82

PROJETOS E CONSTRUÇÕES
Rua Cônego Pollon, 60
Barão de Cotegipe - RS
CEP 99740-000
e-mail:lcbalestrin@gmail.com
54 9 9624 1505

Desenho: Luís

Escala: Indicada

Endereço:
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Barão de Cotegipe/RS

Tipo do Projeto / Serviço:
EDIFICAÇÃO EM ALVENARIA - GUARITA

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Assinado digitalmente por LUIS CARLOS BALESTRIN:65053796068
Razão: Responsável Técnico - Mun. Barão de Cotegipe/RS
Localização: Barão de Cotegipe/RS
Data: 2026.10.22 10:28:17-03'00'
Luís Carlos Balestrin
Eng. Civil CREA RS 096570-D

Prancha: 02/02

Data: 10/2026