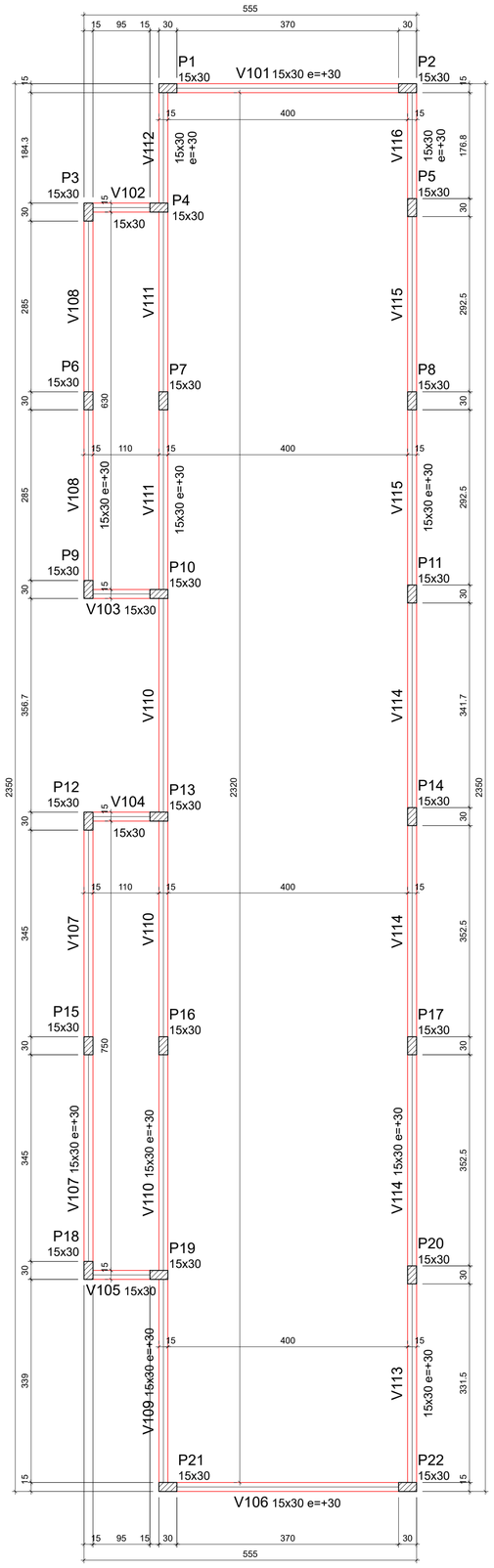
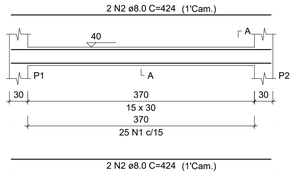


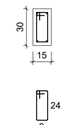
Forma do pavimento Terreo (Nível 10)

escala 1:50

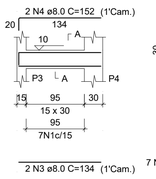
V101 ESC 1:50



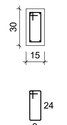
SEÇÃO A-A ESC 1:25



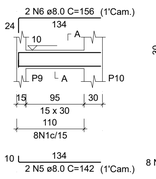
V102 ESC 1:50



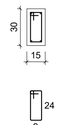
SEÇÃO A-A ESC 1:25



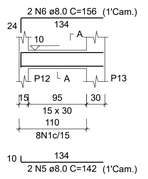
V103 ESC 1:50



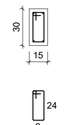
SEÇÃO A-A ESC 1:25



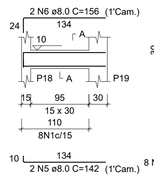
V104 ESC 1:50



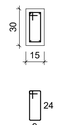
SEÇÃO A-A ESC 1:25



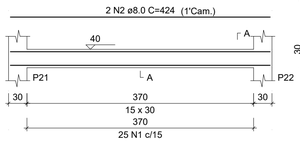
V105 ESC 1:50



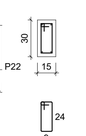
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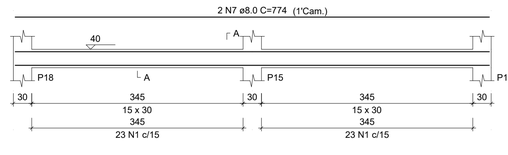
V106 ESC 1:50



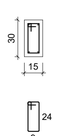
SEÇÃO A-A ESC 1:25



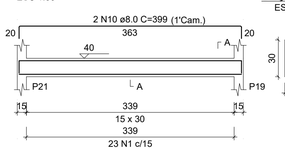
V107 ESC 1:50



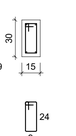
SEÇÃO A-A ESC 1:25



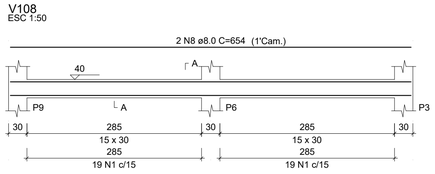
V109 ESC 1:50



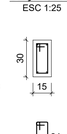
SEÇÃO A-A ESC 1:25



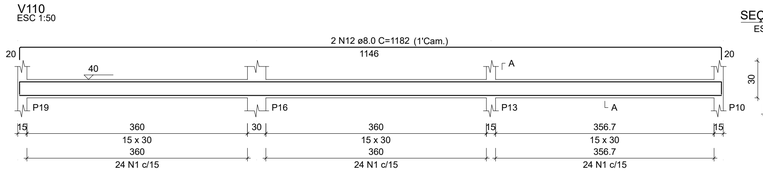
V108 ESC 1:50



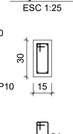
SEÇÃO A-A ESC 1:25



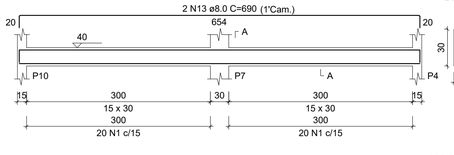
V110 ESC 1:50



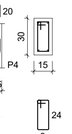
SEÇÃO A-A ESC 1:25



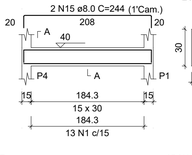
V111 ESC 1:50



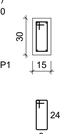
SEÇÃO A-A ESC 1:25



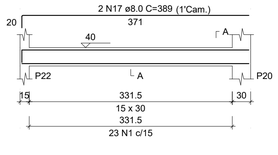
V112 ESC 1:50



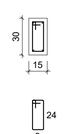
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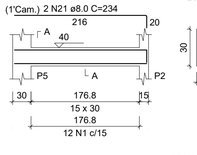
V113 ESC 1:50



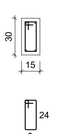
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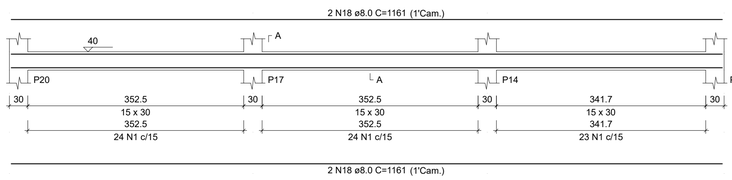
V116 ESC 1:50



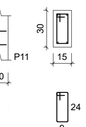
SEÇÃO A-A ESC 1:25



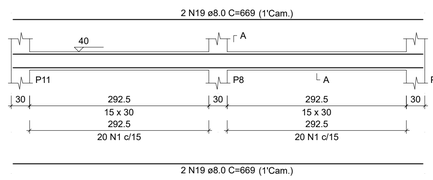
V114 ESC 1:50



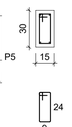
SEÇÃO A-A ESC 1:25



V115 ESC 1:50



SEÇÃO A-A ESC 1:25



RELAÇÃO DO AÇO

V101 V102 V103
V104 V105 V106
V107 V108 V109
V110 V111 V112
V113 V114 V115
V116

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	459	77	35343
CA50	2	8.0	8	424	3392
	3	8.0	2	134	268
	4	8.0	2	152	304
	5	8.0	6	142	852
	6	8.0	6	156	936
	7	8.0	4	774	3096
	8	8.0	6	654	3924
	9	8.0	2	363	726
	10	8.0	2	399	798
	11	8.0	2	1146	2292
	12	8.0	2	1182	2364
	13	8.0	2	690	1380
	14	8.0	2	208	416
	15	8.0	2	244	488
	16	8.0	2	371	742
	17	8.0	2	389	778
	18	8.0	4	1161	4644
	19	8.0	4	669	2676
	20	8.0	2	216	432
	21	8.0	2	234	468

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 5% (Barras)
CA50	8.0	309.8	28
CA60	5.0	353.4	31
PESO TOTAL (kg)			
CA50	128.3		
CA60	57.2		

Volume de concreto (C-25) = 3.02 m³
Área de forma = 50.40 m²

RELAÇÃO DO AÇO

16xP1 6xP3

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	662	77	50974
CA50	2	10.0	64	377	24128
	3	10.0	24	287	6888

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 5% (Barras)
CA50	10.0	310.2	28
CA60	5.0	509.7	45
PESO TOTAL (kg)			
CA50	200.8		
CA60	82.5		

Volume de concreto (C-25) = 3.52 m³
Área de forma = 70.38 m²

P1=P2=P4=P5=P7=P8=P10=P11=P13=
=P14=P16=P17=P19=P20=P21=P22

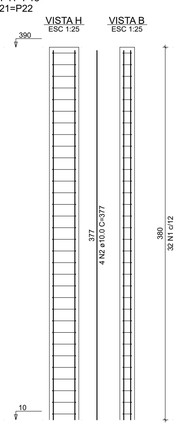
ALTURA COBERTURA - L3

SEÇÃO ESC 1:20



VISTA H ESC 1:25

VISTA B ESC 1:25



P3=P6=P9=P12=P15=P18

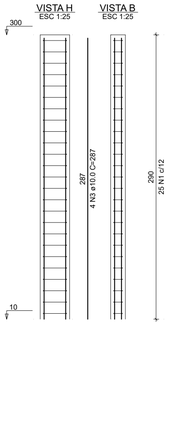
ALTURA COBERTURA - L3

SEÇÃO ESC 1:20



VISTA H ESC 1:25

VISTA B ESC 1:25



Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V101	15x30	30	40
V102	15x30	0	10
V103	15x30	0	10
V104	15x30	0	10
V105	15x30	0	10
V106	15x30	30	40
V107	15x30	30	40
V108	15x30	30	40
V109	15x30	30	40
V110	15x30	30	40
V111	15x30	30	40
V112	15x30	30	40
V113	15x30	30	40
V114	15x30	30	40
V115	15x30	30	40
V116	15x30	30	40

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
250	241500

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	15x30	0	10
P2	15x30	0	10
P3	15x30	0	10
P4	15x30	0	10
P5	15x30	0	10
P6	15x30	0	10
P7	15x30	0	10
P8	15x30	0	10
P9	15x30	0	10
P10	15x30	0	10
P11	15x30	0	10
P12	15x30	0	10
P13	15x30	0	10
P14	15x30	0	10
P15	15x30	0	10
P16	15x30	0	10
P17	15x30	0	10
P18	15x30	0	10
P19	15x30	0	10
P20	15x30	0	10
P21	15x30	0	10
P22	15x30	0	10

Obs:
01 - Todo espaçamento entre barras deverá ser respeitado;
02 - Cobrimento mínimo para fundações = 3cm / Cobrimento mínimo para demais elementos = 2,5cm;
03 - Todos os elementos de concreto deverão ser adensados de forma mecânizada (mangote), não é admitido adensamento manual;
04 - Prazos para desforma
-> Pilares e faces laterais de vigas: 3 dias;
Face inferior de vigas: 14 dias;
Lajes: 21 dias;
Vigas com vãos superiores a 7m: 28 dias;
05 - Em vigas e lajes o processo de desforma deverá ocorrer do centro para as extremidades;
06 - Todas as lajes deverão receber uma armadura de distribuição (para combater fissuração superficial) com espaçamento de 25x25, aço 5.0mm;
07 - Toda laje deverá receber cura hidráulica por no mínimo 07 dias;

Legenda dos pilares	
	Pilar que passa

Legenda das vigas e paredes	
	Viga

REALIZE
ARQUITETURA E ENGENHARIA

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Responsável Técnico
Rafael Nuernberg
CREA - SC 129.640-7
Suélen M. Costa Palmas
CAU - SC: A69267-0
EMPRESA = CREA - SC 136340-4

Projeto de Praça

Endereço:Rua projetada nº 1 esquina com a Rua Divinópolis e Rua Zeli da Rocha Silveira , bairro Polícia Rodoviária, Araranguá - SC.

Projeto Estrutural - Cancha de Bocha

Formas do térreo;
Vigas do baldrame;
Pilares do térreo;

Realize Arquitetura e Engenharia
CNPJ: 12.319.815/0001-17
CREA-SC 136.340-4

Prefeitura Municipal de Araranguá
CNPJ:82.911.249/0001-13

ÁREA

119,05 m²

Escala
Indicada

Data
24/08/2023

Prancha
2/ 3