

Almo. Sr. Prefeito Municipal.

26801

Defensor
11/18/50

8. 89

9. 89

Esinaldo Spurb, proprietário do Terreno da Rua Voluntários da Pátria, nr. 1199 e 1201, desejando modificar e aumentar a construção requerida e despachada no processo nr. 26585 de 22 de Agosto de 1949, conforme plantas anexas com poder a V. S. respectiva licença.

O requerente reside à Rua Voluntários da Pátria, nr. 1199.

Atos Tunes

P. de ferimento

Porto Alegre, 25 de Junho de 1950

Esinaldo Spurb

PROT. 26801

PROT. 26801
plantas
22 de 1950
Oscar S. Knoll

DE OBRAS
SECCAO
155
ANB. IV
21.8.50
Aquino

DIRETORIA GERAL DE
SERVICOS INDUSTRIAES
(Departamento Central)
PROT. 26801
Reg. 115

DEPARTAMENTO
PREFEITURA
DE PORTO ALEGRE
11520
CRISTIANOS

433
27
PORTO ALEGRE

2365-1199

D. J. D.

9-8-50

S. G. G.

A planta de arborescência
na D. J. D.

10-8-1950

direito

impulso

Marcelo

de arborescência

em 11.8.50

João Parreira

10/8

S. G. URBANISMO
Nada temos a opôr.

18-8-1950

[Signature]

Ass. - Sub-Diretor Geral

Nada temos
a opôr.

[Signature]

de arborescência

28-8-50

[Signature]

junto 81135/76

Em 28.6.76

Nair

Jorge M. P. Garçon - 5140
Ass. Técnico
A-CD

especifico



PREFEITURA MUNICIPAL DE PORTO ALEGRE
SMA - COORDENAÇÃO DA DOCUMENTAÇÃO
UNIDADE DE MICROFILMAGEM

AS PLANTAS E DESENHOS
QUE ULTRAPASSARAM A MEDI-
DA PADRÃO, CONSTANTES DÊS
TE PROCESSO, ESTÃO MICRO
FILMADAS NO FILME DE 35mm:

OS 10892

SÉRIE 7	NÚMERO 186	
FLASH 6	DATA 23. 4. 79	
ARQ 2	GAV 4	BOX 2

QUANT. DE DOC. 9


PREPARADOR

VISTO DO CHEFE



AS PLANTAS E DESENHOS
QUE ULTRAPASSARAM A MEDI-
DA PADRÃO, CONSTANTES DE
TE PROCESSO, ESTÃO MICRO-
FILMADAS NO FILME DE 35mm

NÚMERO		SÉRIE
186		G
DATA		FLASH
23.1.79		+
BOX	CAV	ARO
2	4	2
OUTRO		9

10822

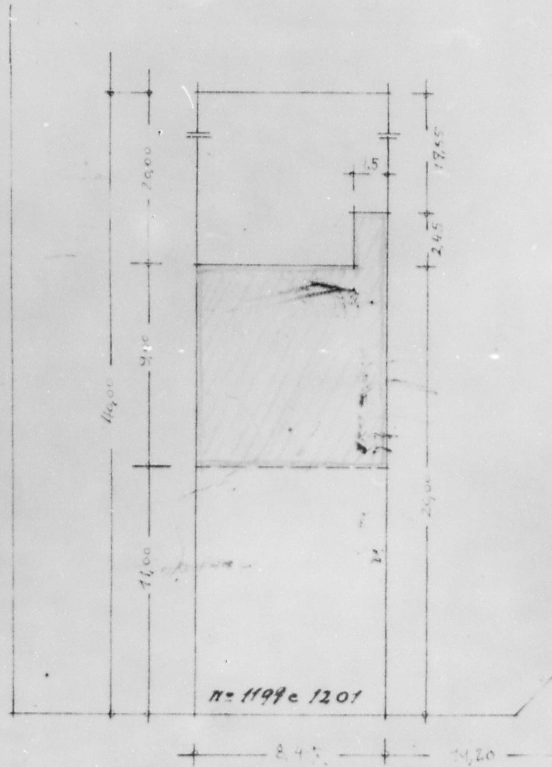
26801-50

Planta de modificação e aumento do projeto do Sm. O. Sport,
Local: Rua Vol. da Tênia nº 1199 e 1201,

Legenda:

Em construção : 
A construir : 

Rua C. Corrêa



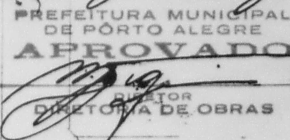
Rua Vol. da Tênia

Localização 1:200,

Rua Ernesto Alves



Rua C. Corrêa



Rua Vol. da Tênia

Situação 1:1000
Prop. Dinálio Faria

26801-50

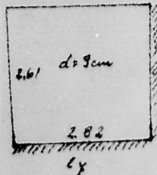
Folha 1

Calculos para a construçao do S. O. F. 18

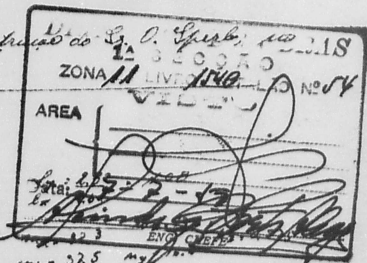
Rua V. da Palma

Calculo das lajes

Lajes 1 a 16

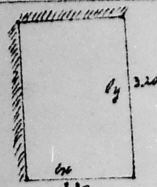


$\rho/p = 216 \text{ kg/m}^2$
 $\text{carga} = 200 \text{ kg/m}^2$
 $q = 416 \text{ kg/m}^2$
 $M_x = \frac{416 \times 2.61^2}{8} = 82.2 \text{ kgm}$
 $M_y = \frac{416 \times 2.82^2}{8} = 75.5 \text{ kgm}$
 $q_x = 4575 \times 416 = 239 \text{ kg/m}$
 $q_y = 416 \times 239 = 122 \text{ kg/m}$



$M_x = 82.2 \text{ kgm}$
 $M_y = 75.5 \text{ kgm}$
 $x_1 = 172 \text{ kgm}$
 $x_2 = 203 \text{ kgm}$
 $x_3 = 172 \text{ kgm}$
 $x_4 = 203 \text{ kgm}$

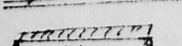
Lajes 17-18-19



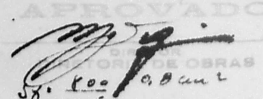
$\rho/p = 216 \text{ kg/m}^2$
 $\text{carga} = 200 \text{ kg/m}^2$
 $q = 416 \text{ kg/m}^2$
 $M_x = \frac{416 \times 2.30^2}{8} = 22.3 \text{ kgm}$
 $M_y = \frac{416 \times 3.20^2}{8} = 43.0 \text{ kgm}$
 $q_x = 416 \times 2.30 = 957 \text{ kg/m}$
 $q_y = 416 \times 43.0 = 179 \text{ kg/m}$

$M_x = 22.3 \text{ kgm}$
 $M_y = 43.0 \text{ kgm}$
 $x_1 = 22.3 \text{ kgm}$
 $x_2 = 43.0 \text{ kgm}$
 $x_3 = 22.3 \text{ kgm}$
 $x_4 = 43.0 \text{ kgm}$

Lajes 20-21-22



$\rho/p = 216 \text{ kg/m}^2$
 $\text{carga} = 200 \text{ kg/m}^2$
 $q = 416 \text{ kg/m}^2$
 $M_x = \frac{416 \times 1.14^2}{8} = 6.76 \text{ kgm}$
 $M_y = \frac{416 \times 1.14^2}{8} = 6.76 \text{ kgm}$
 $q_x = 416 \times 1.14 = 474 \text{ kg/m}$
 $q_y = 416 \times 6.76 = 280 \text{ kg/m}$

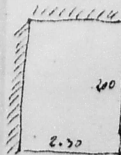


Rua Fiel
 Eng. Luis Reg. (CREA) 6790

Folha 20

26801-50

Folha 3



$q = 216 \text{ kg/m}^2$
 $\text{carga} = 200 \text{ kg/m}^2$
 $q = 416 \text{ kg/m}^2$
 $M_x = \frac{416 \times 2.30^2}{8} = 45 \text{ kgm}$
 $M_y = \frac{416 \times 2.30^2}{8} = 45 \text{ kgm}$
 $q_x = 416 \times 2.30 = 957 \text{ kg/m}$
 $q_y = 416 \times 45 = 187 \text{ kg/m}$

Calculo Pilas e sapatos
 Pilas
 25×32
 $\lambda = \frac{3.76 \times 15.00}{25} = 68.2$
 $\lambda = 40 = (1200 - 40) \times 0.008 = 41.16$
 Sapatos
 $P = 22000 + 570 = 22570 \text{ kg}$
 $\frac{h}{a} = \frac{32}{25} = 1.28$
 $\lambda = \frac{190 - 22}{2} = 79$
 $P = \frac{190 + 22}{2} \times 29 \times 1 = 3100 \text{ kg}$
 $c = \frac{29}{2} = 14.5$



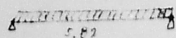
Prefeitura Municipal de Porto Alegre
 SMA - CD
 UNIDADE DE MICROFILMAGEM
 ESTA PLANTA FOI
 RETIRADA DO PROC.
 N.º 26801/50
 (N.º E ANO)

Rua Fiel
 Eng. Luis Reg. (CREA) 6790

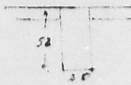
26801-50
Cálculo de Vigas

Pólo 3

Vigas 2, 4, 6, 8



$\mu/p = 250$
 $R_{a,b} = \frac{624}{5.82} = 107.2 \text{ kg/m}$
 $q = 874 \text{ kg/m}$



$M = \frac{1}{8} \times 11 \times 5.82^2 = 3700 \text{ kgm}$

$R_a = R_b = \frac{874 \times 5.82}{2} = 2537 \text{ kg}$

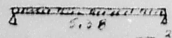
$f_c = \frac{54.5}{\sqrt{\frac{32}{2.5}}} = 1198$
 $k_v = 151.8$

$f_c \leq 15 \text{ kg/cm}^2$ $S_f = \frac{54.5 \times 20}{151.8} = 7.2 \text{ cm}^2$
 $f_t = 1200 \text{ kg/cm}^2$ $4\phi 1/2 + 1\phi 3/8$

Exibidos $\phi 1/4$ e 20 cm

$\bar{C}_0 = \frac{2537}{1014.5} = 2.5 \text{ kg/cm}^2$ de ferro dobrar ferros.

Vigas 1, 3, 5, 7



$M = \frac{1}{8} \times 11 \times 5.82^2 = 3700 \text{ kgm}$

$\mu/p = 250$
 $R_{a,b} = 500 \text{ kg/m}$
 $q = 170 \text{ kg/m}$

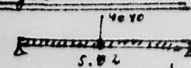
$R_a = R_b = \frac{170 \times 5.82}{2} = 2487 \text{ kg}$

$f_c = \frac{51.5}{\sqrt{\frac{32}{2.5}}} = 13.92$
 $k_v = 203.8$

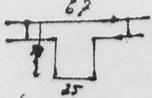
$f_c \leq 432 \text{ kg/cm}^2$ $S_f = \frac{51.5 \times 20}{203.8} = 5.02 \text{ cm}^2$
 $f_t = 1200 \text{ kg/cm}^2$ $4\phi 1/2 + 1\phi 3/8$

Exibidos $\phi 1/4$ e 20 cm de ferro dobrar ferros

Vigas 9, 10, 11, 16



$\mu/p = 310$
 $R_{a,b} = 624 \text{ kg/m}$
 $R_{a,b} = 505 \text{ kg/m}$
 $q = 1429 - 1480 \text{ kg/m}$



$M = \frac{1}{8} \times 11 \times 5.82^2 + \frac{1}{8} \times 4040 \times 5.82 = 12110 \text{ kgm}$

$\phi = \frac{q}{h} = \frac{9.60}{16.5} = 0.58$ $i_1 = 0.59$ $i_4 = 35$ $i_6 = 211$ $k_v = 293$ $k_3 = 2111$

$M_0 = \frac{25 \times 54.5}{129} = 501$ $M' = 1211 - 501 = 710$

$S_f = \frac{0.197 \times 710 + 0.411 \times 501}{54.5} = 12.1 \text{ cm}^2 = 7\phi 5/8$

$\bar{C}_0 = \frac{2111 \times 12}{3536.7} = 7.2 \text{ cm}^2$ $R = 42 + 25 = 67 \text{ cm}$

$\bar{C}_0 = \frac{6330}{2510.9 \times 100} = 5 \text{ kg/cm}^2$ Exibidos $\phi 1/4$ e 20 cm

$\bar{C}_0 = \frac{6330}{2510.9 \times 100} = 5 \text{ kg/cm}^2$ $\bar{C}_0 = 66 = 35 \text{ kg/cm}^2$

$\bar{C}_0 = \frac{6330}{20 \times 25} = 12.66 \text{ kg/cm}^2$ $R = \frac{0.82 \times 13.5}{20 \times 25} = 2.04$

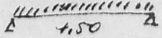
$T = \frac{9.38 \times 1.04}{0.25} = 38.34$ $N = \frac{1.04}{0.11000} = 9.45$ $3\phi 5/8$

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Viga 11

$\mu/p = 177 \text{ kg/m}$
 $R_{a,b} = 238 \text{ kg/m}$
 $q = 388 \text{ kg/m}$

Folha 4
 26801-50



$M = \frac{388 \times 4.5^2}{8} = 925 \text{ kgm}$

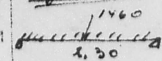
$R_a = R_b = \frac{388 \times 4.5}{2} = 860 \text{ kg}$

$f_c = \frac{28.5}{\sqrt{\frac{32}{2.5}}} = 12.9$
 $k_v = 154$

$f_c \leq 44 \text{ kg/cm}^2$ $S_f = \frac{28.5 \times 20}{154} = 3.7 \text{ cm}^2$
 $f_t = 1200 \text{ kg/cm}^2$ $2\phi 1/2 + 2\phi 3/8$

$\bar{C}_0 = \frac{860}{1014.5} = 0.85 \text{ kg/cm}^2$ de ferro dobrar ferros Exibidos $\phi 1/4$ e 15 cm

Vigas 12 e 14



$R_{a,b} = 189 \text{ kg/m}$
 $R_{a,b} = 323 \text{ kg/m}$
 $\mu/p = 126 \text{ kg/m}$
 $q = 638 \text{ kg/m}$



$M = \frac{638 \times 4.5^2}{8} + \frac{1460 \times 4.5}{4} = 1263$

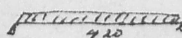
$R_a = R_b = \frac{638 \times 4.5}{2} + \frac{1460}{2} = 1438$

$f_c = \frac{28.5}{\sqrt{\frac{32}{2.5}}} = 12.9$
 $k_v = 172$

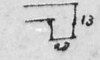
$f_c \leq 46 \text{ kg/cm}^2$ $S_f = \frac{15 \times 33.5}{172} = 3.54$
 $f_t = 1200 \text{ kg/cm}^2$ $3\phi 1/2$

$\bar{C}_0 = \frac{1438}{15 \times 30} = 3.2$ de ferro dobrar ferros Exibidos $\phi 1/4$ e 17 cm

Viga 17



$R_{a,b} = 230 \text{ kg/m}$
 $\mu/p = 63 \text{ kg/m}$
 $q = 293 \text{ kg/m}$



$M = \frac{293 \times 4.2^2}{8} = 646$

$\bar{C}_0 = \frac{10}{11.5} = 0.87$

$f_c = 45 \text{ kg/cm}^2$ $f_t = 1200 \text{ kg/cm}^2$

$S_f = \frac{20 \times 11.5}{118.1 + 44 \times 10} = 5.38 \text{ cm}^2$
 $3\phi 5/8$

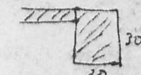
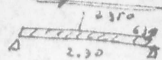
$M = \frac{646 - 20 \times 11.5}{170.2} = 45.7 \text{ kgm}$

$S_f' = \frac{45.7}{0.43 \times 110} = 10.6 = 3\phi 3/4 + 1\phi 3/8$

$R_a = R_b = \frac{293 \times 4.2}{2} = 600 \text{ kg}$

$\bar{C}_0 = \frac{600}{1014.5} = 0.59 \text{ kg/cm}^2$ de ferro dobrar ferros Exibidos $\phi 1/4$ e 20 cm

Viga 13



$M = \frac{638 \times 2.3^2}{8} + \frac{2350 \times 2.3}{4} = 1222 \text{ kgm}$

$f_c = 45 \text{ kg/cm}^2$ $f_t = 1200 \text{ kg/cm}^2$

$S_f = \frac{0.944 \times 64.2 + 0.942 \times 116}{285} = 5.9 \text{ cm}^2$
 $2\phi 1/2 + 2\phi 5/8$

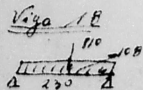
$M_0 = \frac{20 \times 812.25}{120} = 135.375$ $M' = 61.2$

$R = \frac{1125 + 230 + 638}{2} = 1991.5$

$\bar{C}_0 = \frac{1991.5}{1010.9 \times 100} = 1.97 < 4$ de ferro dobrar ferros Exibidos $\phi 1/4$ e 15 cm

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 Eng. Carlos Rey (REB 679)

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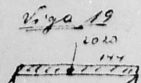
$$L^2 = \frac{28.5}{15} = 1.9$$



$$M = 8.0 \times 2.30 + 1.0 \times 2.30 = 3.30 \text{ kg/m}$$

$$G_c = 33 \text{ kg/m}^2 \quad S_b = \frac{28.5 \times 1.9}{2 \times 1.9} = 1.15 \text{ m}^2$$

dispono de duas barras estalo $\phi 14$ $e = 15 \text{ cm}$



$$L^2 = \frac{28.5}{20} = 1.4$$



$$M = 2.0 \times 2.0 \times 2.30 + 1.4 \times 2.30 = 1.25 \text{ kg/m}$$

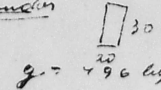
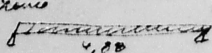
$$G_c = 42 \text{ kg/m}^2 \quad S_b = \frac{28.5 \times 2.0}{13.2} = 4.2 \text{ m}^2$$

Estalo $\phi 14$ $e = 15 \text{ cm}$

Vigas laterais

Naos laterais ao Pandor

1.º Nao

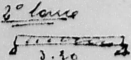


$$M = 4.96 \times 2.30 = 1.14 \text{ kg/m}$$

$$G_c = 45 \text{ kg/m}^2 \quad S_b = \frac{28.5 \times 2.30}{13.2} = 4.85 \text{ m}^2$$

$$R = 4.96 \times 2.30 = 1.14 \text{ kg/m}$$

dispono de duas barras estalo $\phi 14$ $e = 15 \text{ cm}$



$$M = 4.96 \times 2.30 = 1.14 \text{ kg/m}$$



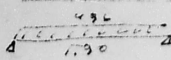
$$S_b = \frac{28.5 \times 2.30}{13.2} = 4.85 \text{ m}^2$$

$$L^2 = \frac{28.5}{20} = 1.4$$

$$G_c = 31.1 \text{ kg/m}^2 \quad S_b = \frac{28.5 \times 2.30}{13.2} = 4.85 \text{ m}^2$$

dispono de duas barras estalo $\phi 14$ $e = 15 \text{ cm}$

Naos - Pandor



$$M = 4.96 \times 2.30 = 1.14 \text{ kg/m}$$

$G_c = 45 \text{ kg/m}^2$
 $G_o = 1200 \text{ kg/m}^2$

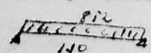
$$AM = 2.16 \times \frac{10 \times 2.30}{140.2} = 1.01 \text{ kg/m}$$

$$S_b = \frac{28.5 \times 2.30}{13.2} + \frac{1.01}{2.4} = 4.85 \text{ m}^2$$

$$S_b' = \frac{28.5}{0.781 \times 2.4} = 15.2 \text{ m}^2$$

dispono de duas barras estalo $\phi 14$ $e = 15 \text{ cm}$

Log usado



d. 9 cm

$$M = 4.96 \times 2.30 = 1.14 \text{ kg/m}$$

$$L^2 = \frac{28.5}{20} = 1.4$$

$G_c = 28 \text{ kg/m}^2$
 $G_o = 1200$

$$L^2 = 403.2$$

$$S_b = \frac{800}{403.2} = 2 \text{ m}^2$$

$\phi 14$

Ass. Inel
Eng. Civil Reg. Ch

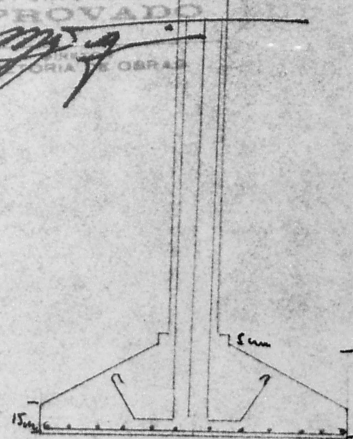
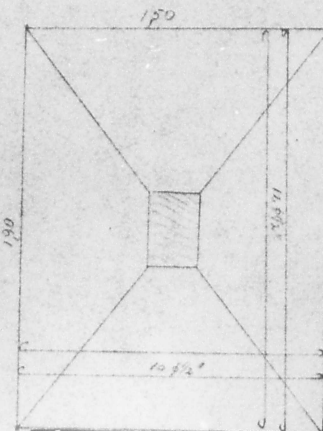
26801-50



Pilar - Sapato



APPROVADO

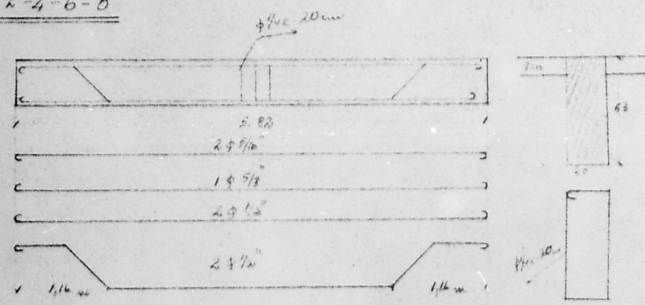


Ass. Inel
Eng. Civil Reg. C.R.E.R.
6790

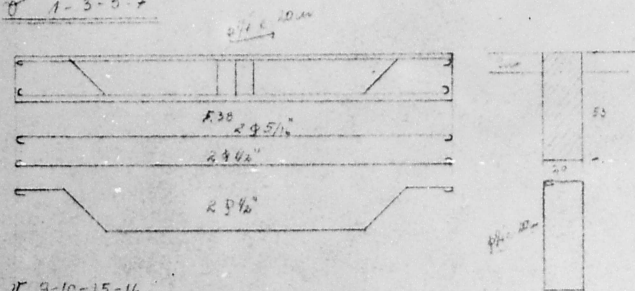
Projeto de Fundação e Estrutura
 SMA - CD
 UNIDADE DE MICROFILMAGEM
 ESTA PLANTA FOI
 RETIRADA DO PROC.
 N.º 26801/50
 (N.º 6.º AND.)

Auto 3ml
 Eng. Gen.º Ruy (RE 6270)

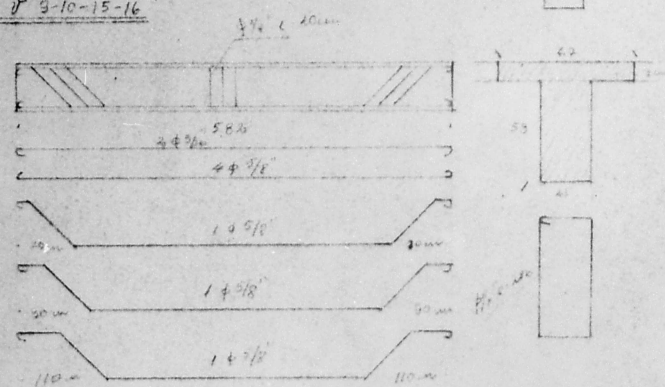
2-4-6-8



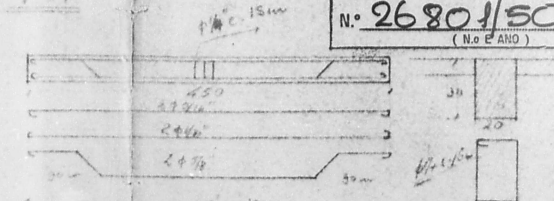
1-3-5-7



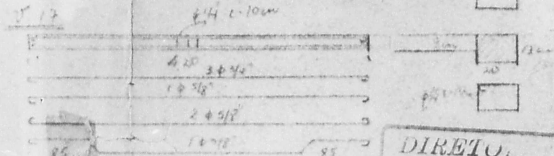
9-10-15-16



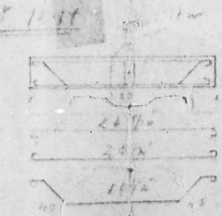
11



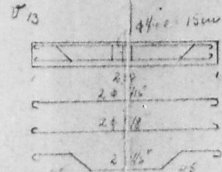
12



13



13



14

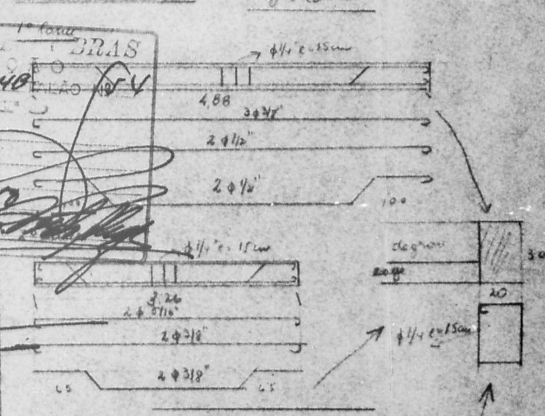


DIRETO
 2.º SEGO
 ZONA LIVRE
 VIBR

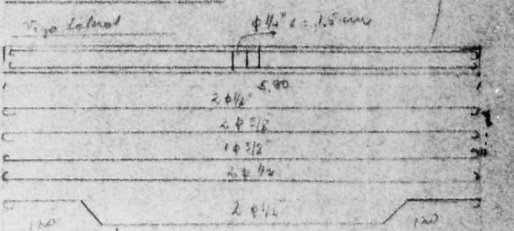
ESCADAS

TERREO - 1.ª ANDAR

liga. laterais



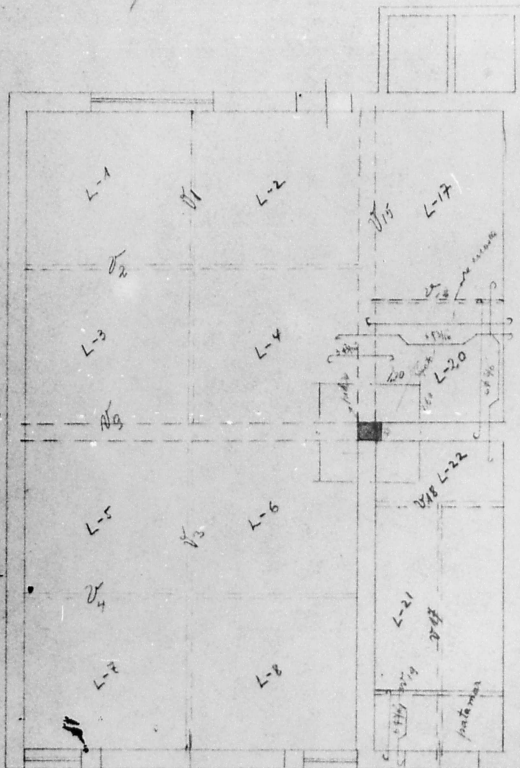
1.ª ANDAR - 2.ª ANDAR



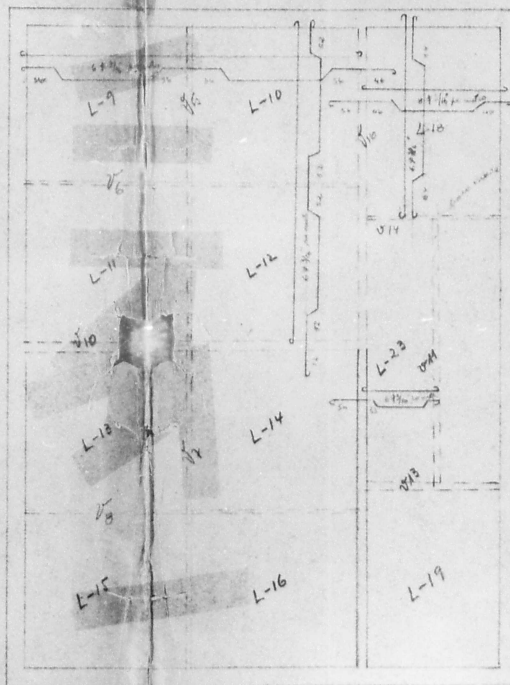
Desenho

8φ4
 2φ4
 2φ4

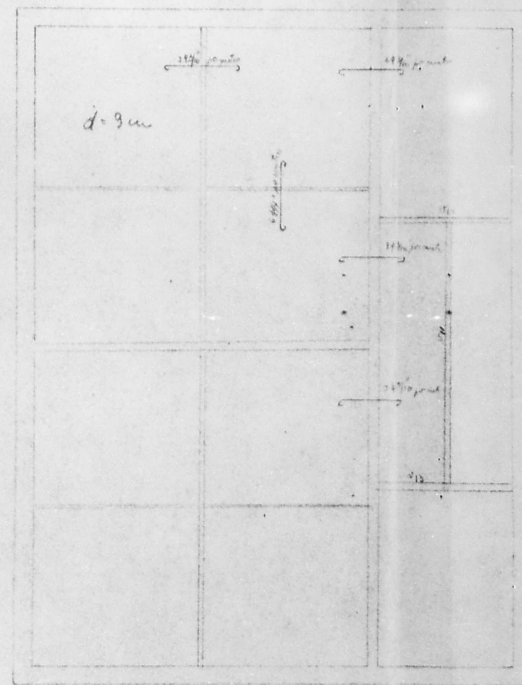
Calculos para a construçao do
S. O. Spina



L-1 a L-6 Igual
L-7 a L-13 Igual
L-14 a L-22 Igual



Prefeitura Municipal de Po. Alegre
SMA - CO
UNIDADE DE MICROFILMAGEM
ESTA PLANTA FOI
RETIRADA DO PROC.
N.º 26801/50
(No 2.º bloco)



26801-50

Memó de modificação e aumento do projeto do Sr. O. Spert,
Local - Rua Voluntários da Pátria nº 1199 - 130
Escola 1-50,

ATENÇÃO:
Qualquer alteração poderá ser feita na planta, desde que seja feita a
CARTORIA DE CADASTRO

ESTA PLANTA FOI
RETRAI DA DO PROC.
Nº 26801/50

SECRETARIA DE OBRAS
13ª SEÇÃO
ZONA DE URBANIZAÇÃO Nº 54
VISTO
Área 1.200,00 m²
Data 10-1-50
Assinatura

O Proprietário

O Construtor

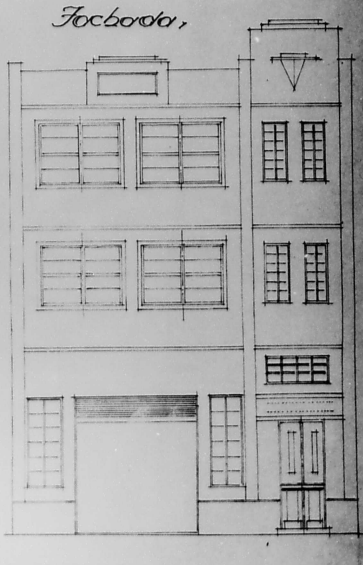
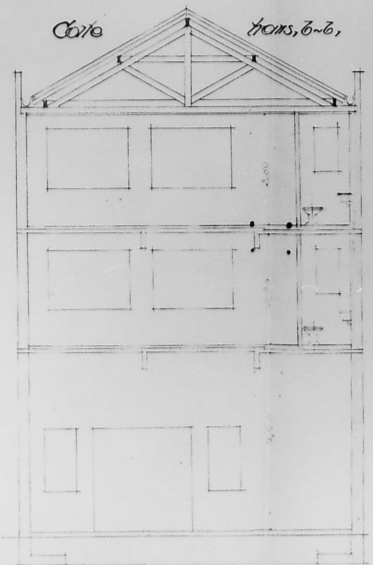
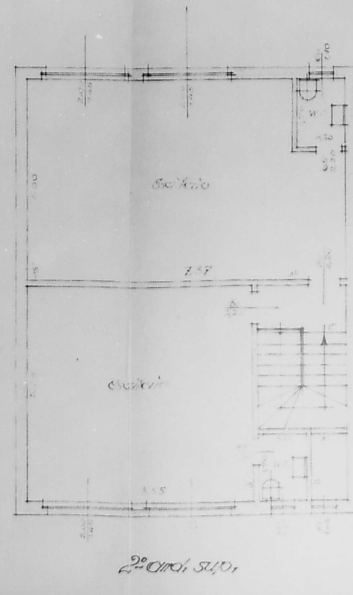
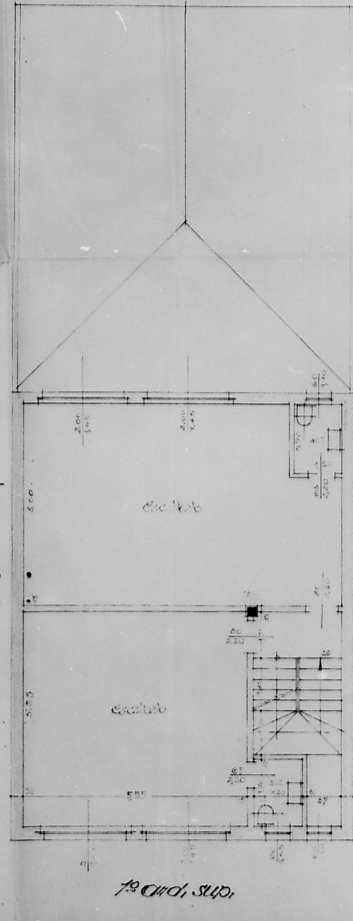
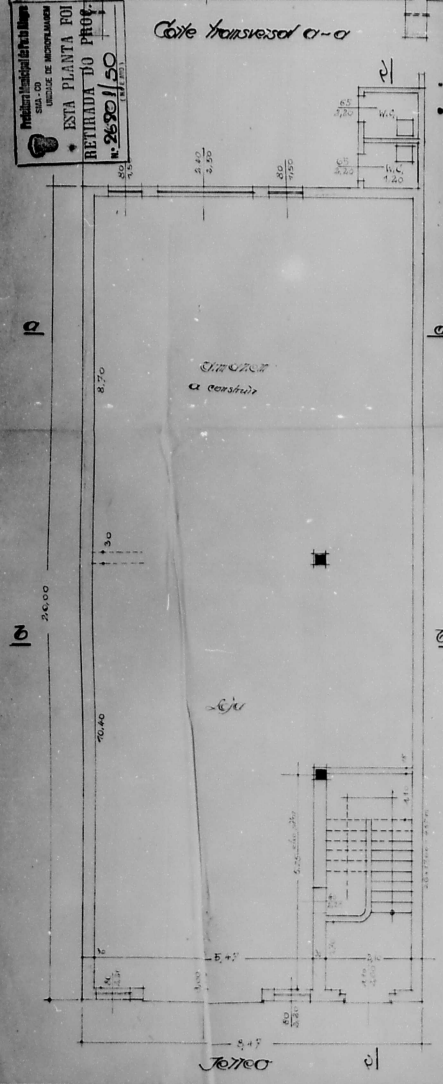
Três Vistas, Eng. civil C. 349

Esta planta foi
RETRAI DA DO PROC.
Nº 26801/50

Corte transversal a-a

Localização 1-200

Corte longitudinal c-c



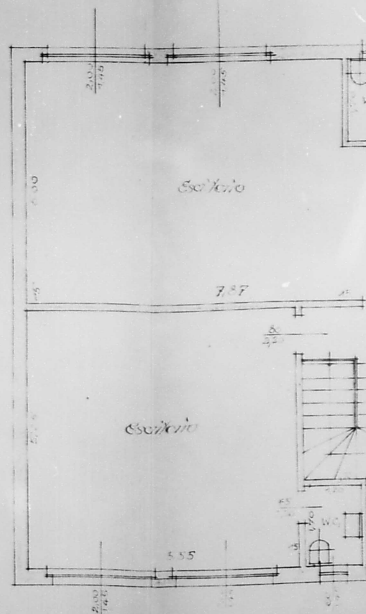
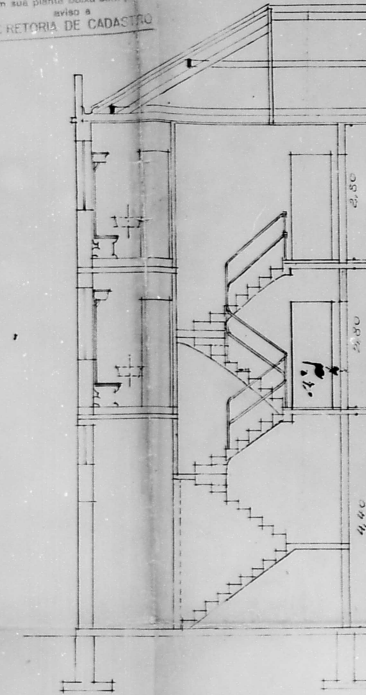
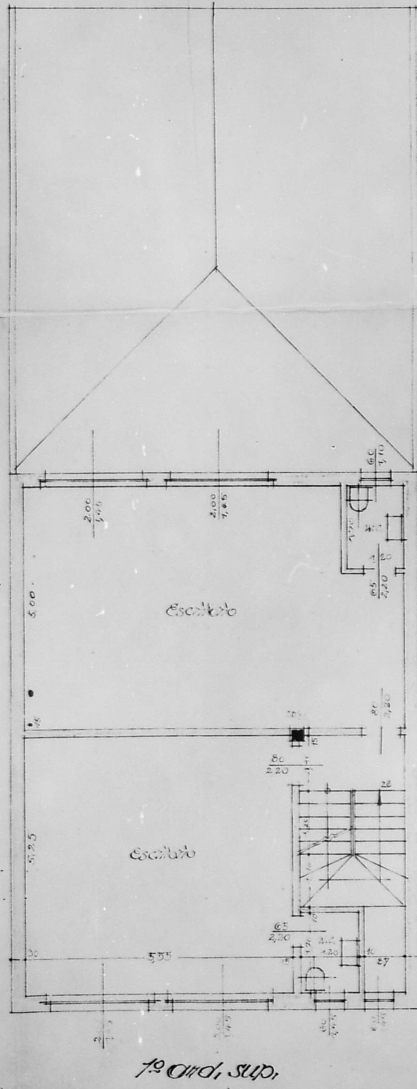
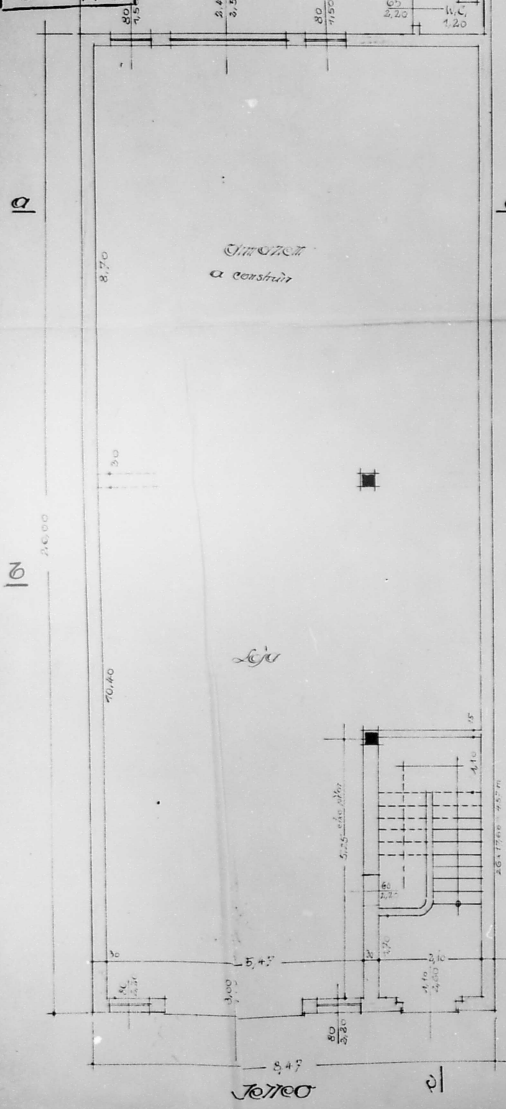
Planta de modificação Local - Rua Volúpi

ATENÇÃO!
Qualquer alteração poderá ser feita na situação do prédio em sua planta baixa sem prejuízo a
CARTÓRIA DE CADASTRO

Prefeitura Municipal de Curitiba
SUA-OD
UNIDADE DE MICROPLANEJAMENTO
ESTA PLANTA FOI
RETRADA DO PROJ.
N. 2630/150
(1970)

Corte transversal a-a

Localização 1-200



26801-50
 Nome de modificação e aumento do projeto do Sr. O. Spert
 Local - Rua Voluntários da Pátria no 1199 - 120
 Escala 1:50,

26801-50
 Nome de modificação e aumento do projeto do Sr. O. Spert
 Local - Rua Voluntários da Pátria no 1199 - 120
 Escala 1:50,

Local: Rua Voluntários da Pátria no 1199 - 12º

Escala 1:50,

ATENÇÃO!
Nenhuma alteração poderá ser feita na situação do predio sem sua planta baixa sem prévio aviso à
RETORIA DE CADASTRO


Prefeitura Municipal de Porto Alegre
 S.M.A. - CD
 UNIDADE DE MICROFILMAGEM
**ESTA PLANTA FOI
 RETIRADA DO PROC.
 N.º 26801/50**
 (Cópia)

DIRETORIA DE OBRAS.
4ª SECCAO
ZONA II LIVRO HIGIENALÃO Nº 54
VISTO
AREA _____
_____ de ab. 799.
Data: 24-8-77
[Signature]

PREFEITURA MUNICIPAL
DE PORTO ALEGRE
LEPROSARIOS

W. A.

[Signature]

Fr. W. an, Exe. cind Gre 329

O Topiario

○ Constructor =

Corte longitudinal c-c

Corte

Thoms, 6-6.

Fochorda,

2^o Ord. sup.