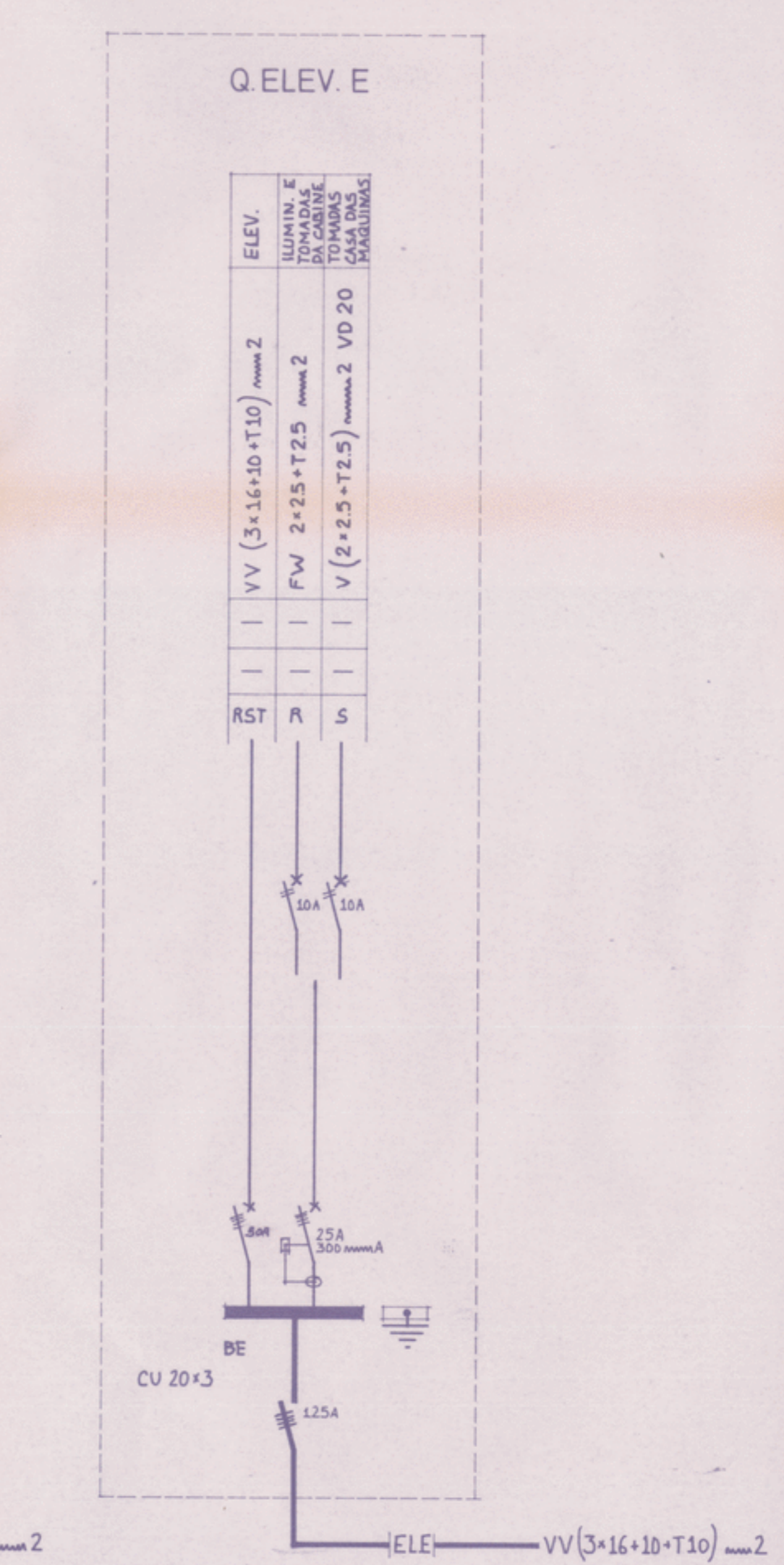
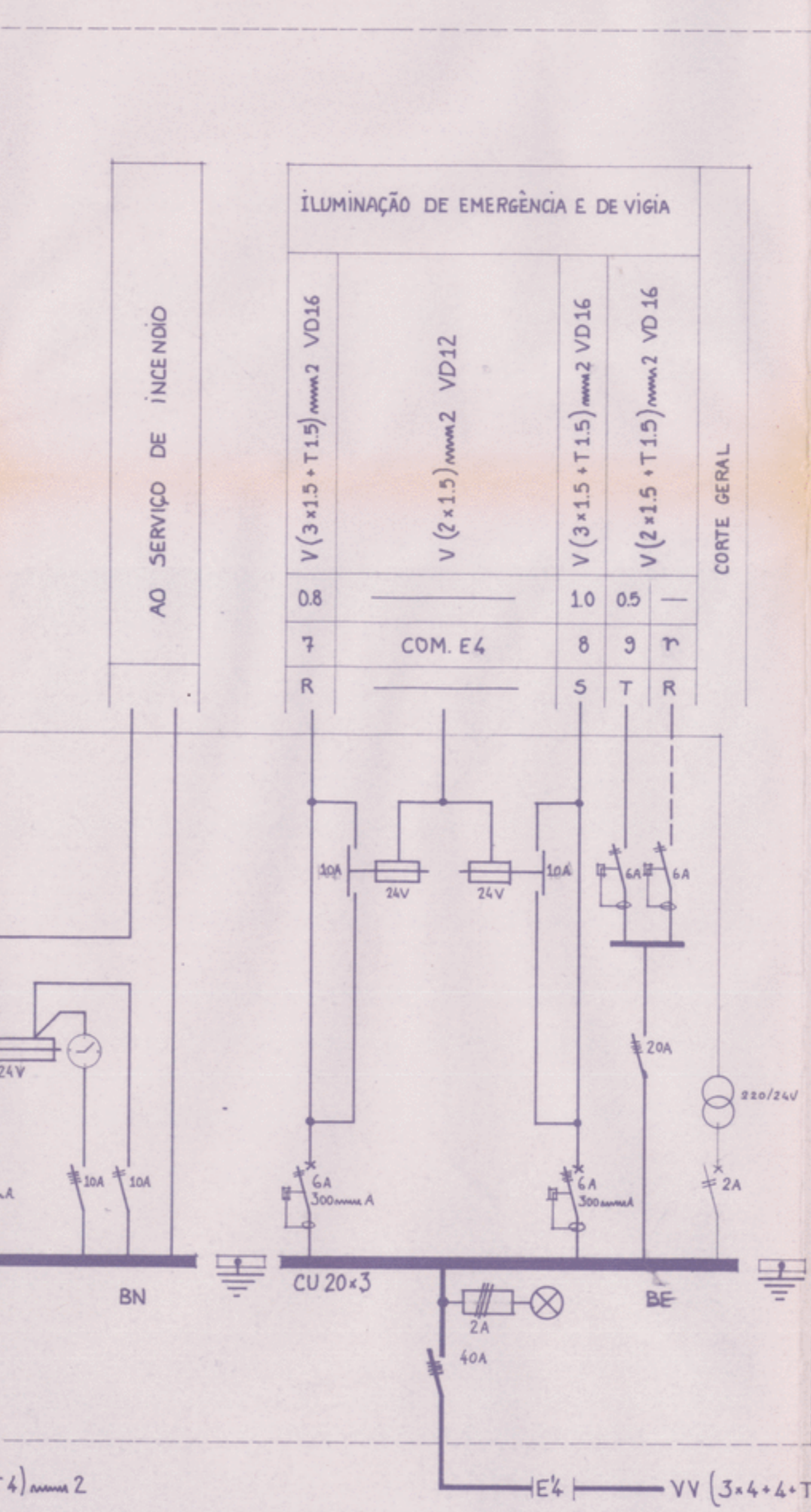
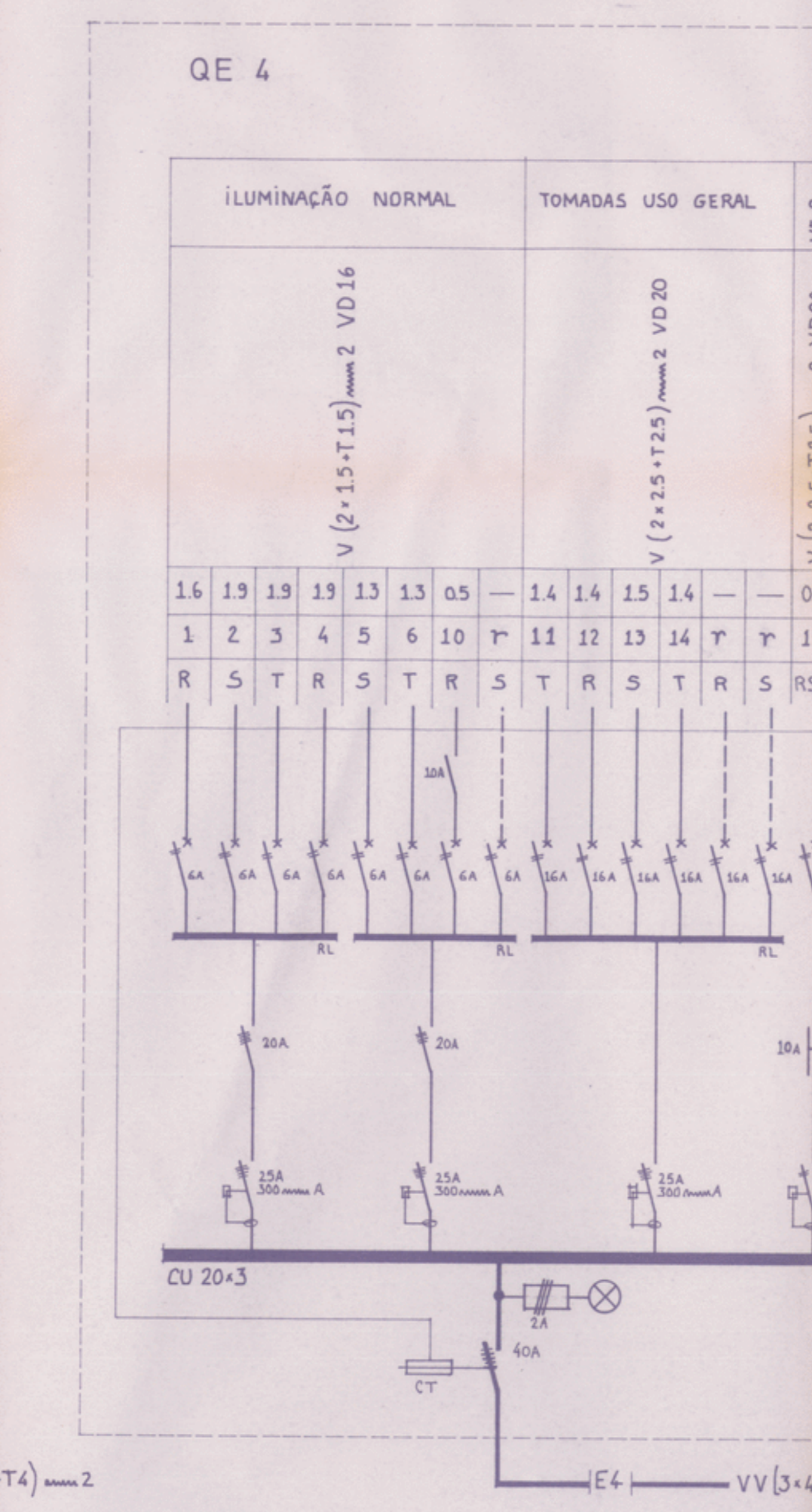
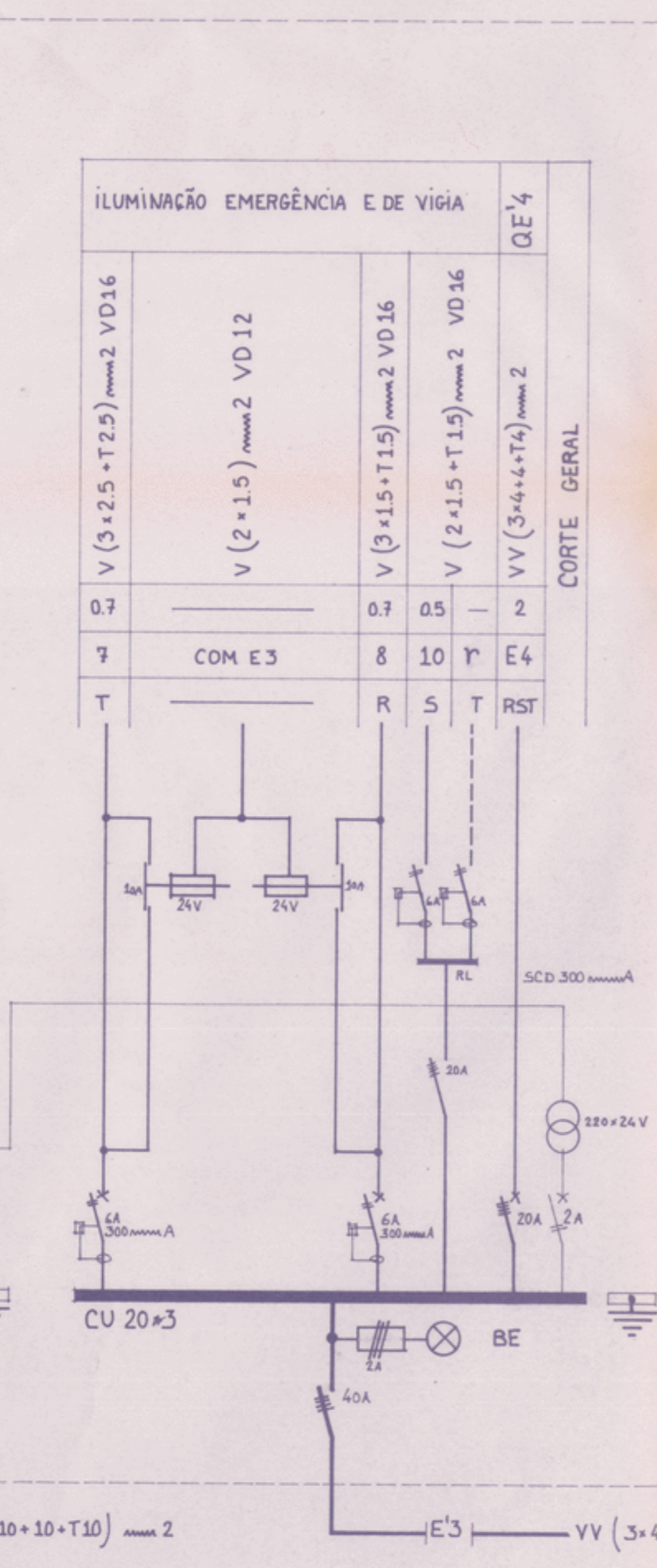
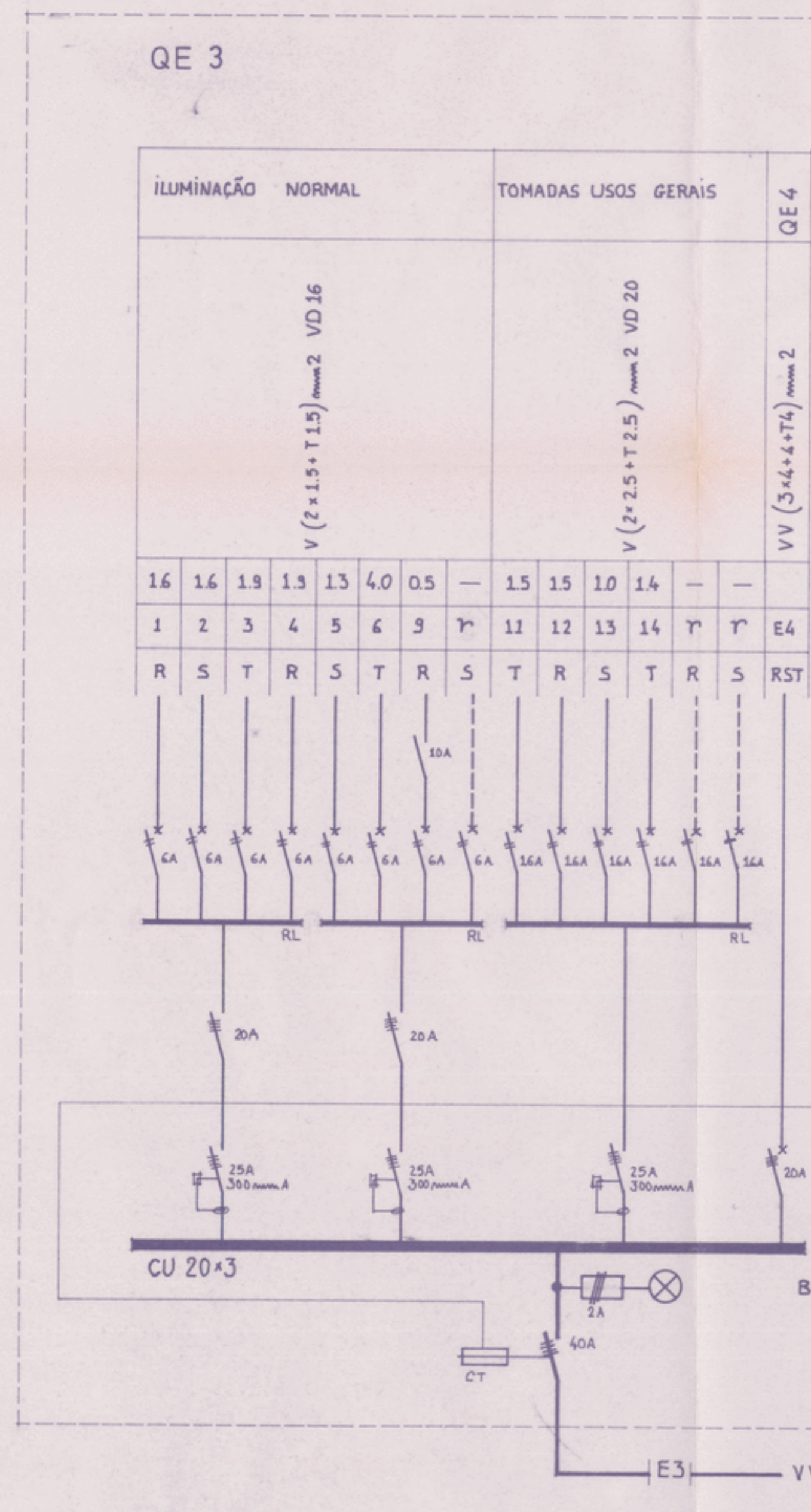
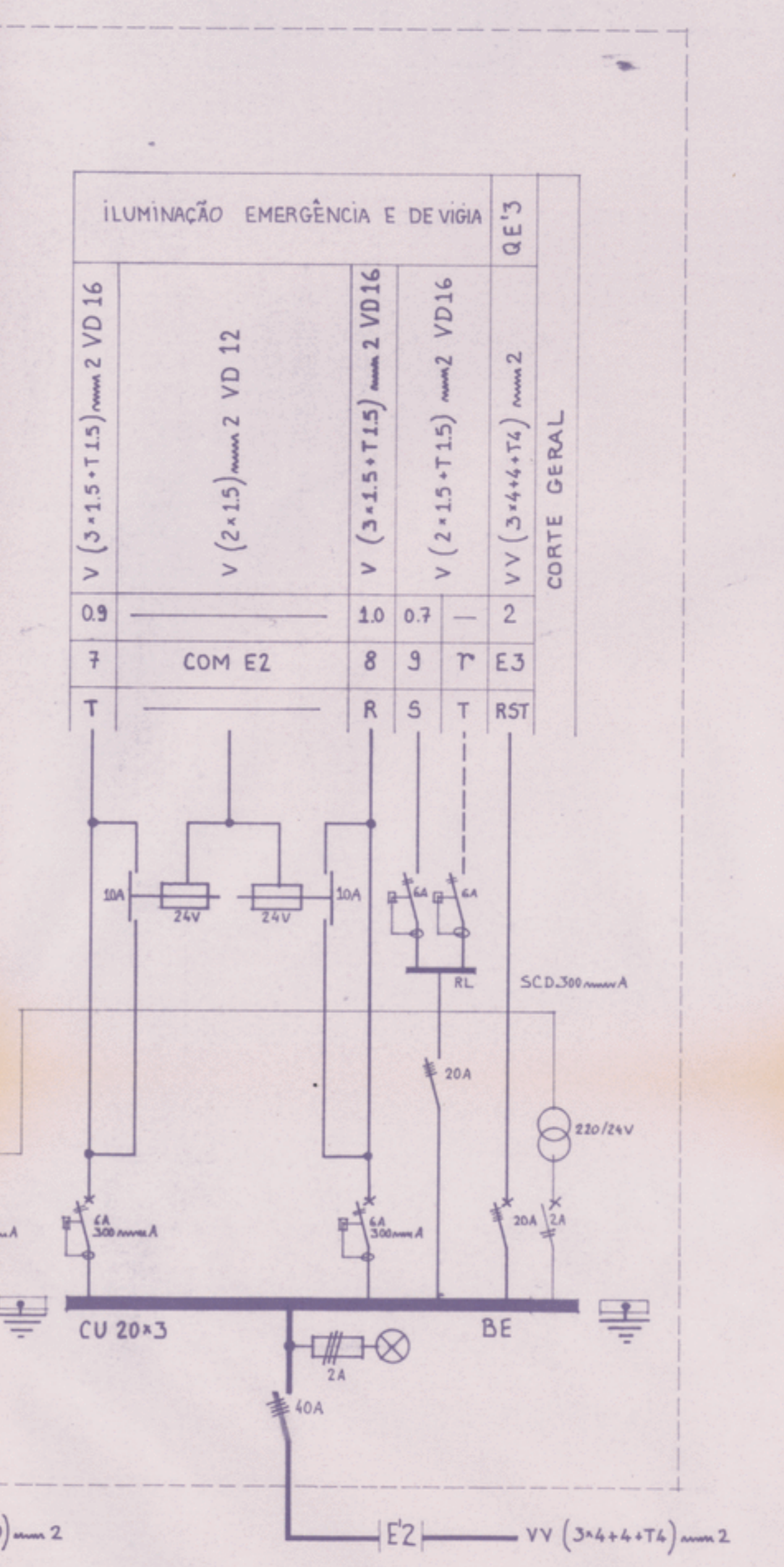
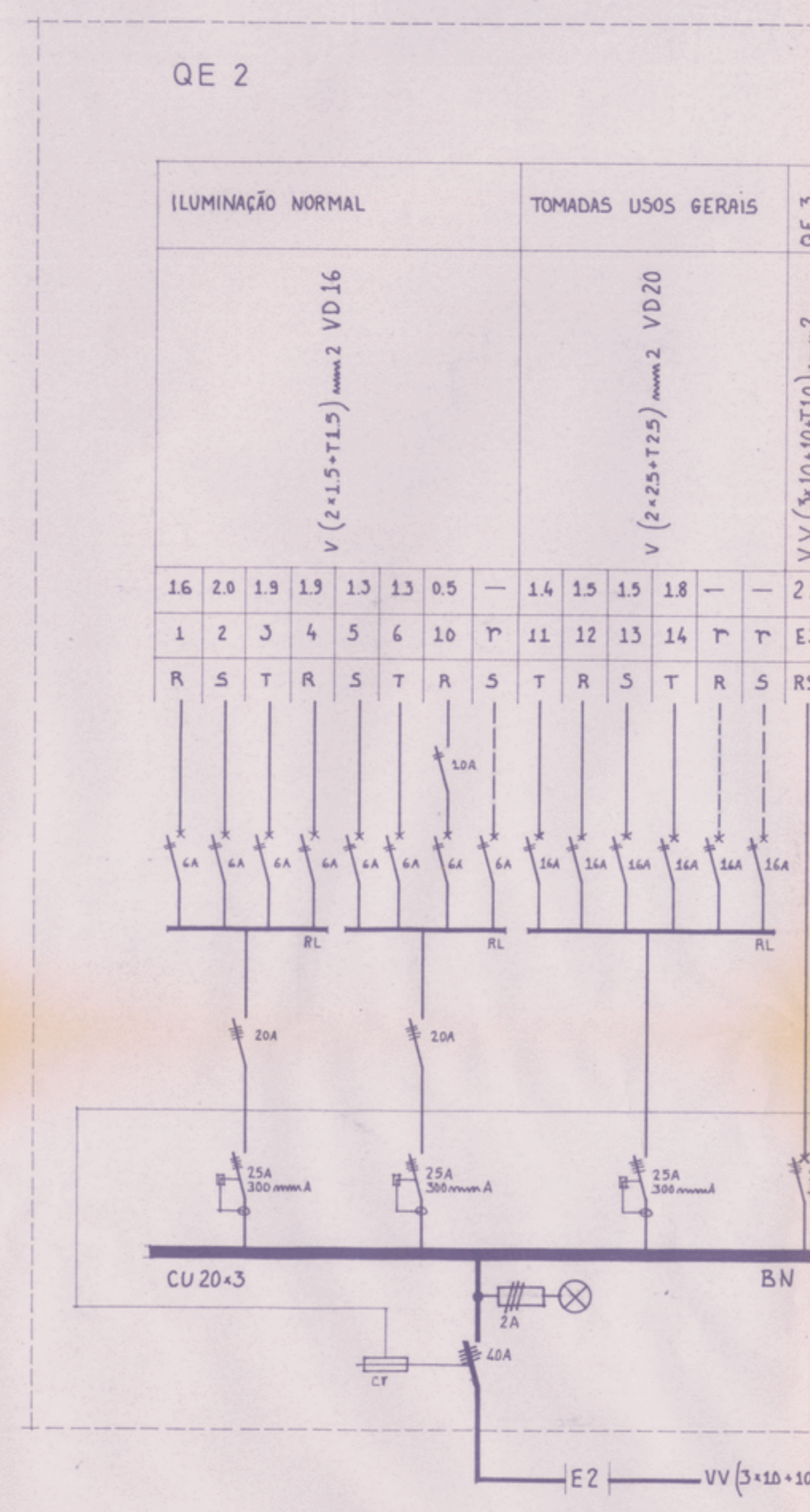
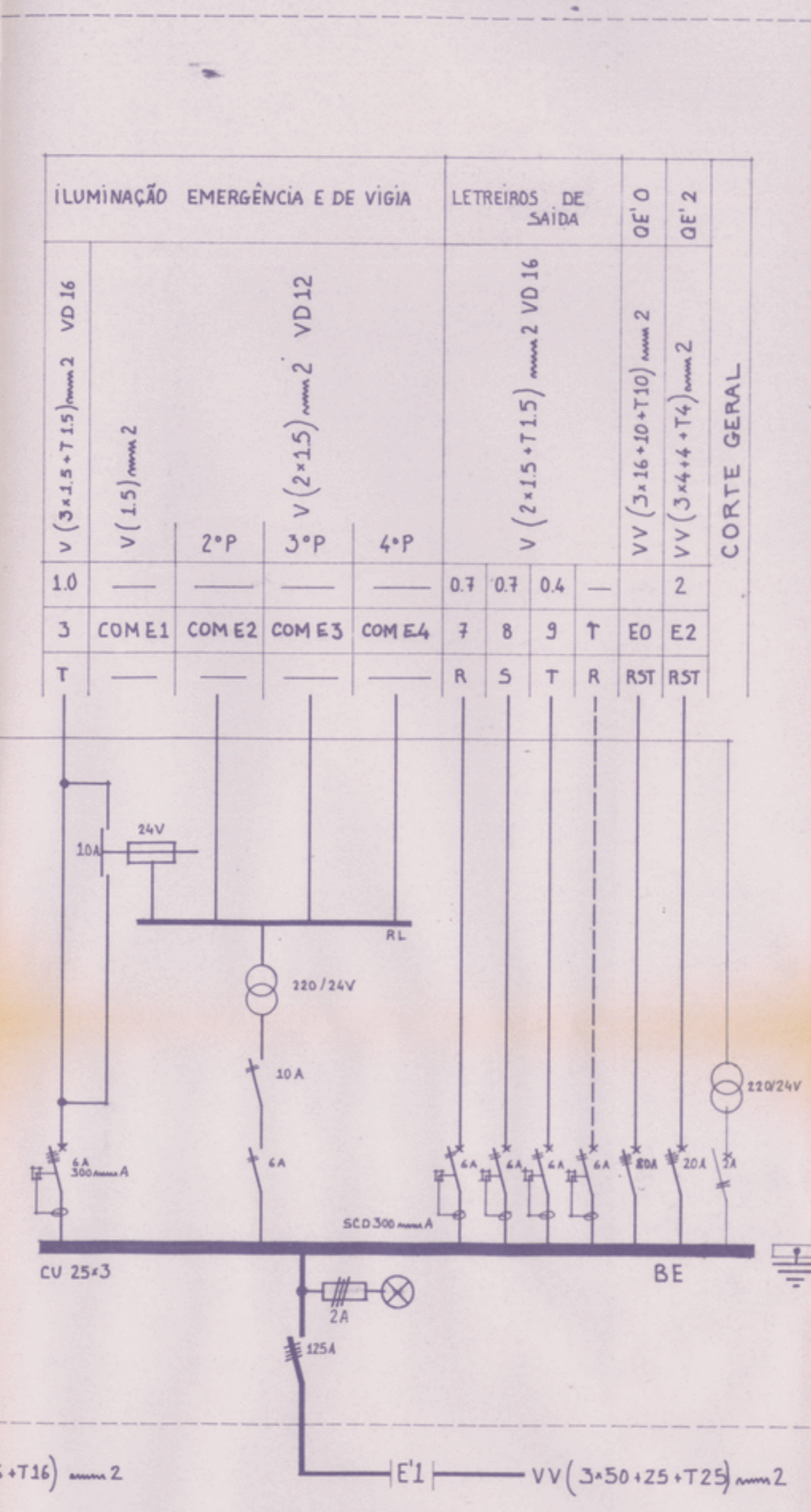
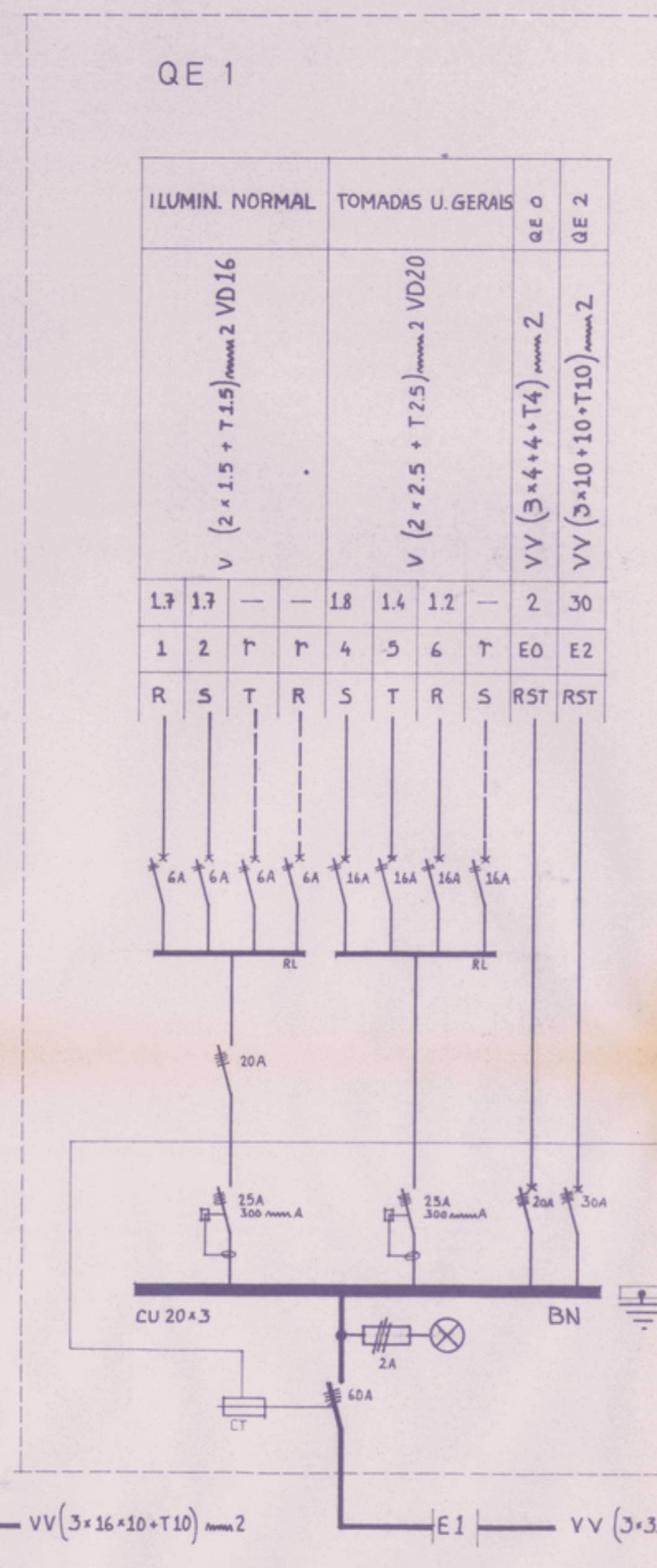
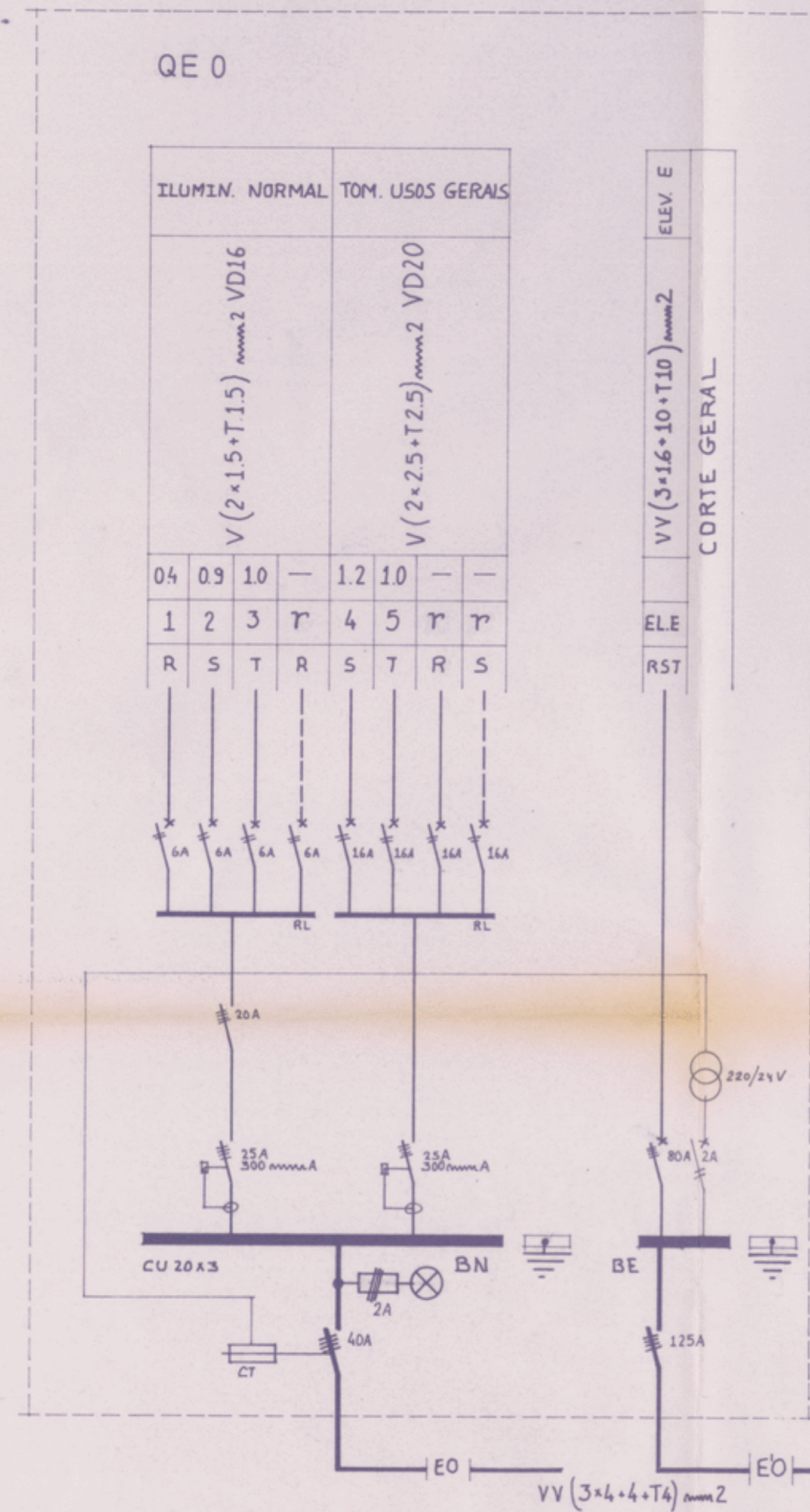


**UNIVERSIDADE DO
PORTO
REITORIA**

U. PORTO

arquivo
central

PASTA N.º 1923



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NOTAS:

LIGAÇÕES INTERNAS MÍNIMAS

RL (RÉGUA DE LIGADORES)

NU 6mm²

V 4mm²

6mm²

42

AC-1923-2

FACULDADE DE ARQUITECTURA DO PORTO

Projeto	8-83	PROJECTO	GOP
Execução	12-83	EXECUÇÃO	12-83
Revisão			

QUADROS ELÉCTRICOS

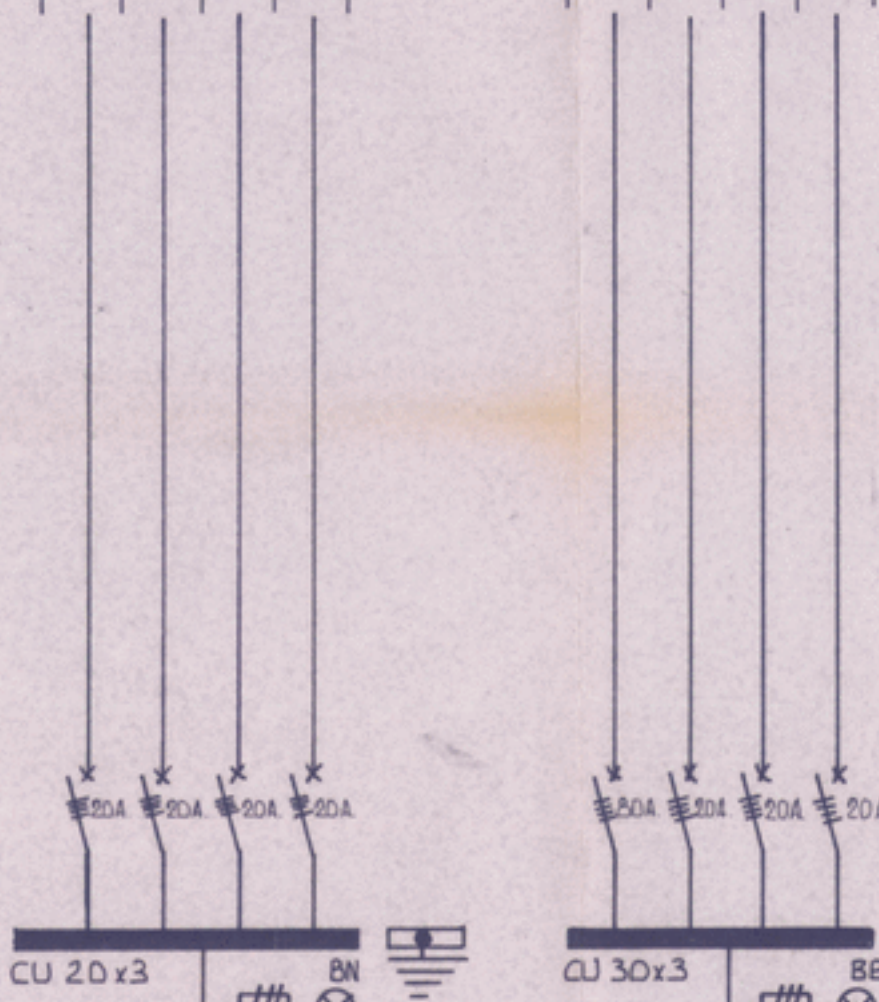
QE 0 QE 1 QE 2 QE 3 QE 4

Q. ELEV. E

81/1214

Q.G.F.

Q.F.1	Q.F.2	Q.F.3	Q.F.4
V(3x4+4+T4) mm.2 - 10/25	V(3x4+4+T4) mm.2 - 10/25	V(3x4+4+T4) mm.2 - 10/25	V(3x4+4+T4) mm.2 - 10/25
10	80	80	80
F1	F2	F3	F4
RST	RST	RST	RST

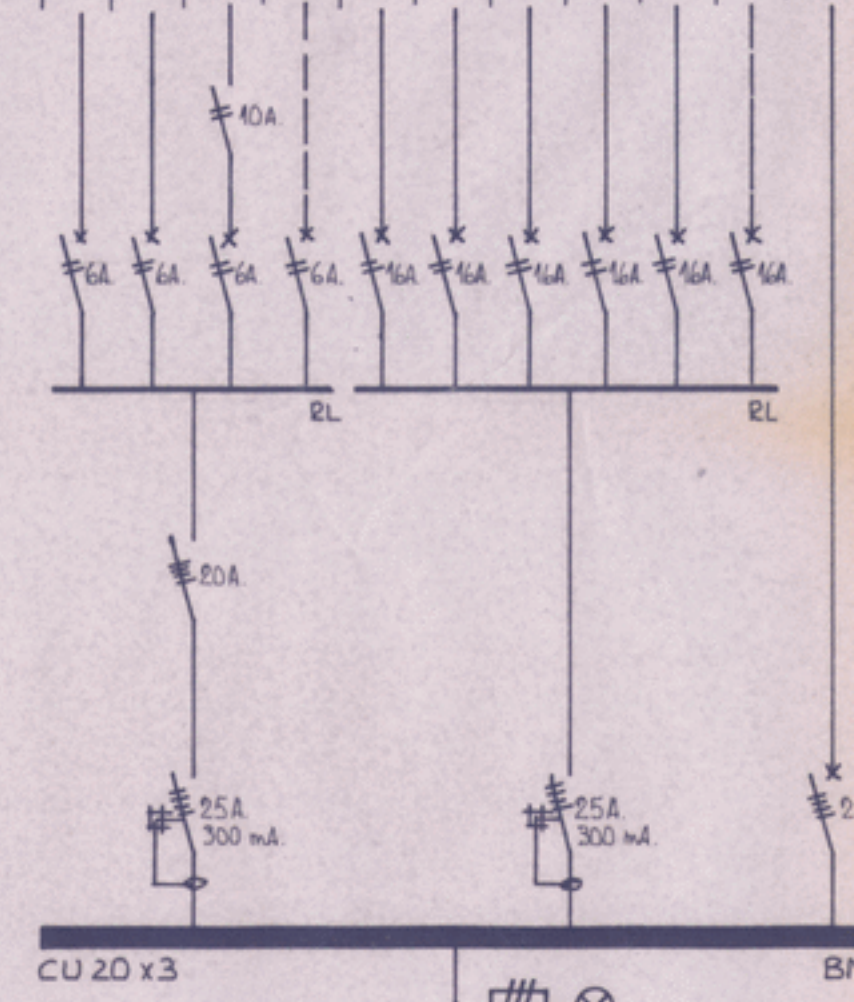


V(3x35+16+T16) mm.2

V(3x35+16+T16) mm.2

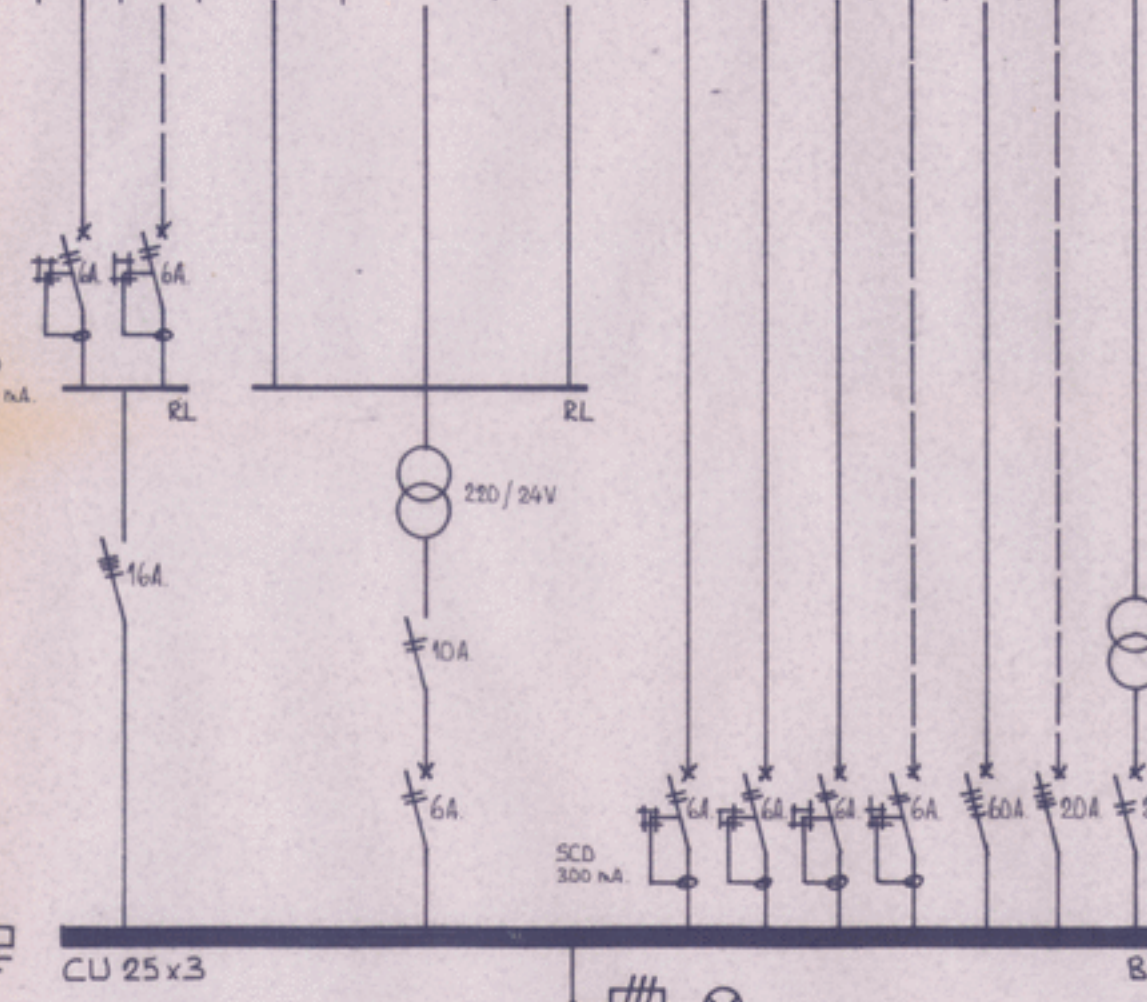
Q.F.1

ILUMINAÇÃO NORMAL		TOMADAS USOS GERAIS		RESERVA
V(2x15+T15) mm.2 - 10/16		V(2x2.5+T2.5) mm.2 - 10/20		
26	29	09	15	17
1	2	3	5	6
R	S	T	R	S



V(3x4+4+T4) mm.2

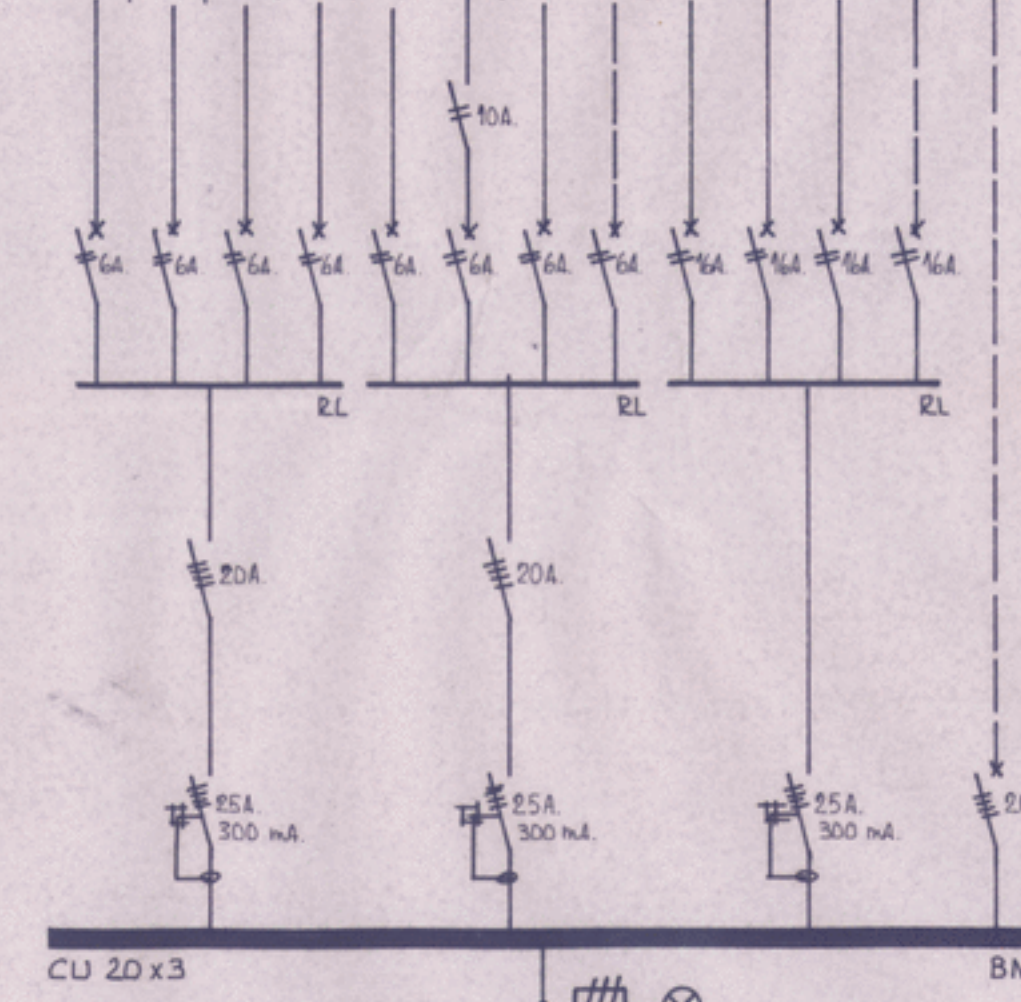
ILUMIN. EMERGÊNCIA E DE VIGIA		LEITREIROS		Q.E.L.F.	RESERVA	RESERVA
V(2x1.5+T1.5) mm.2 - 10/16		V(2x1.5) mm.2 - 10/16		V(3x16+10+T10) mm.2 - 10/40		
03	08	08	04			
4	10	11	12	14	15	16
R	S	T	R	S	T	R



V(3x25+16+T16) mm.2

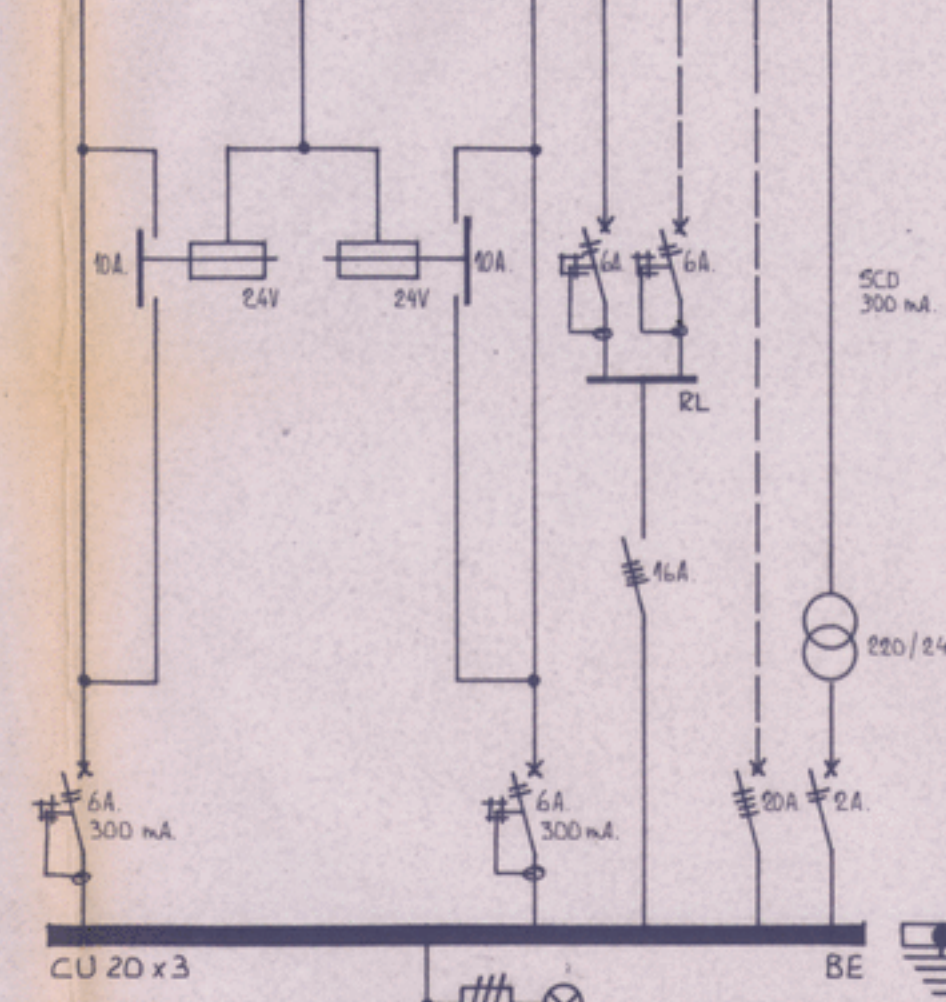
Q.F.2

ILUMINAÇÃO NORMAL		TOMADAS DE USOS GERAIS		RESERVA
V(2x1.5+T1.5) mm.2 - 10/16		V(2x2.5+T2.5) mm.2 - 10/20		
19	19	16	10	05
1	2	3	4	5
R	S	T	R	S



V(3x4+4+T4) mm.2

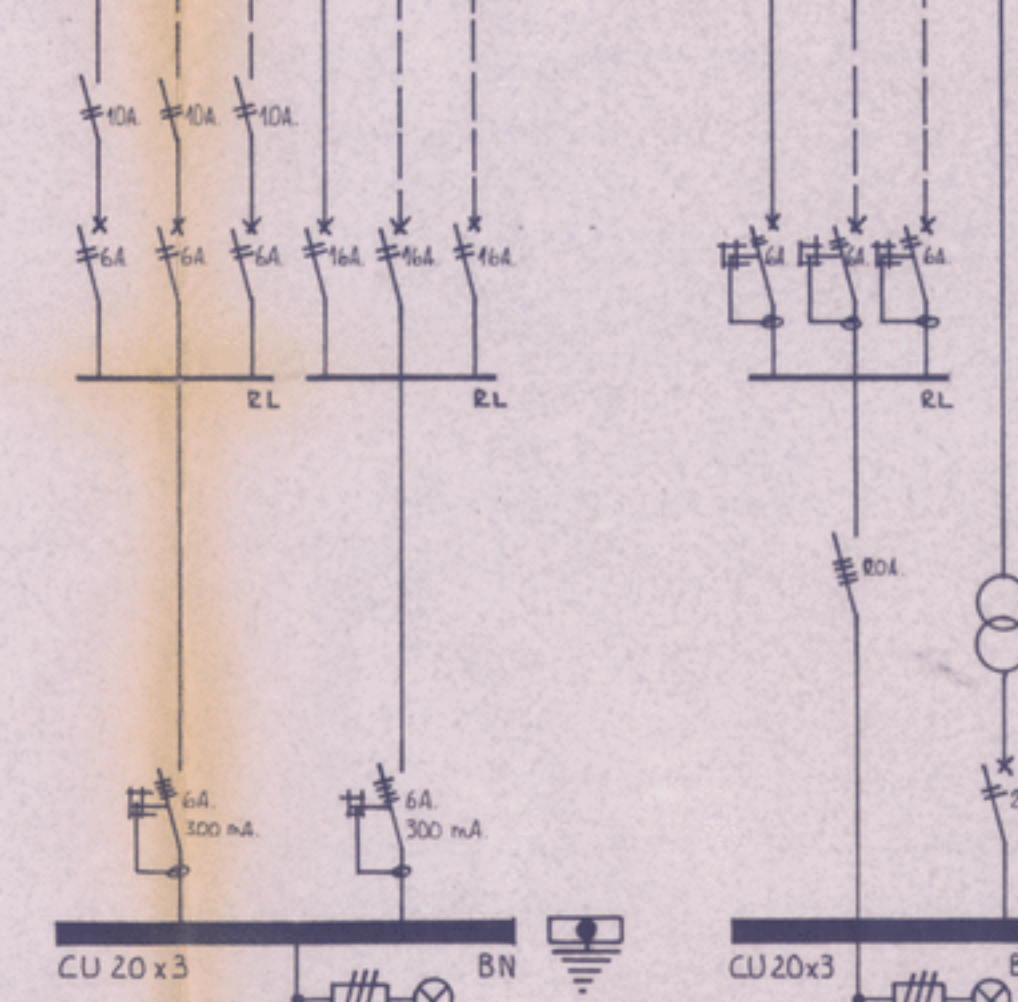
ILUMINAÇÃO EMERGÊNCIA E DE VIGIA		RESERVA	RESERVA
V(2x1.5) mm.2 - 10/16		V(3x15+T15) mm.2 - 10/16	V(2x1.5+T1.5) mm.2 - 10/16
08	07	05	
6	7	9	10
R	S	T	R



V(3x4+4+T4) mm.2

Q.D'4

ILUMIN. NORMAL		TOM. U. GERAIS		ILUMIN. EMERG.	RESERVA
V(2x1.5+T1.5) mm.2 - 10/16		V(2x2.5+T2.5) mm.2 - 10/20		V(2x1.5+T1.5) mm.2 - 10/16	
07	08	09		03	
1	2	3	4	5	6
R	S	T	R	S	T



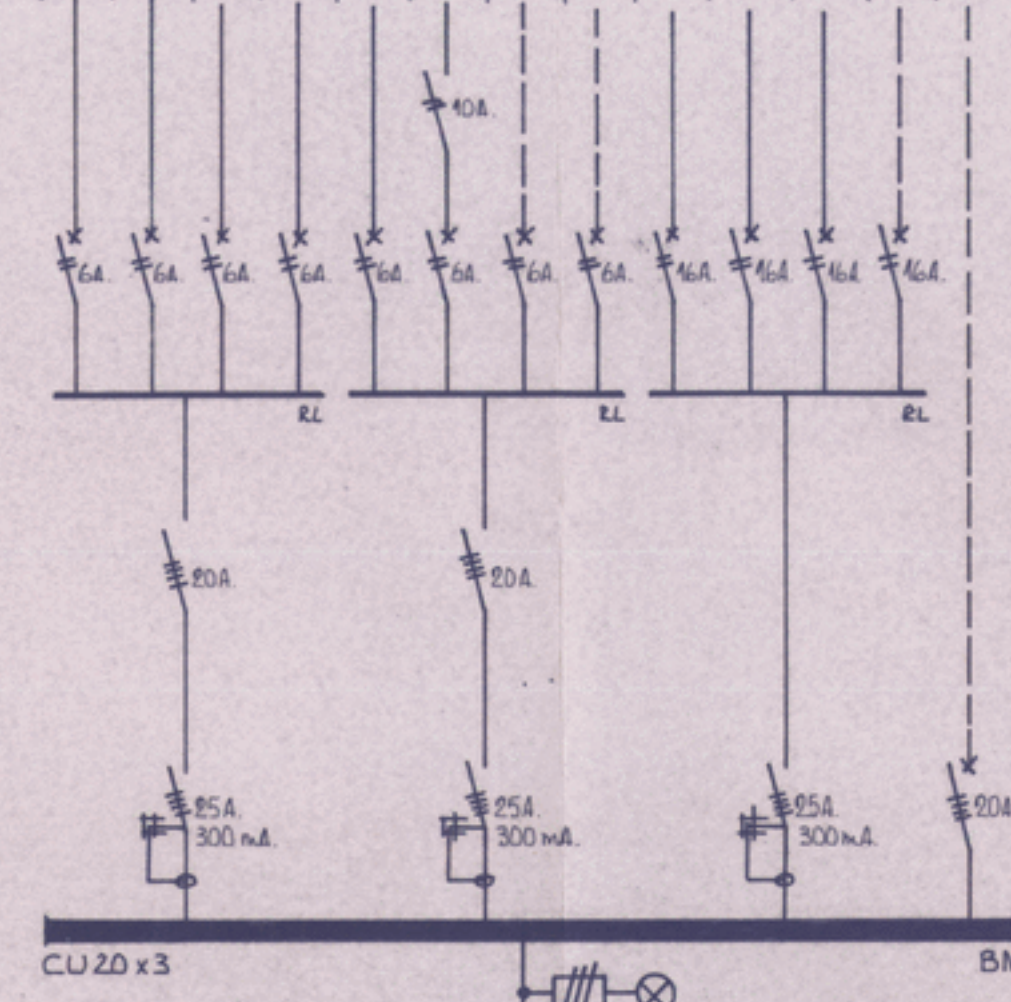
W(3x4+4+T4) mm.2

V(3x4+4+T4) mm.2

U. PORTO

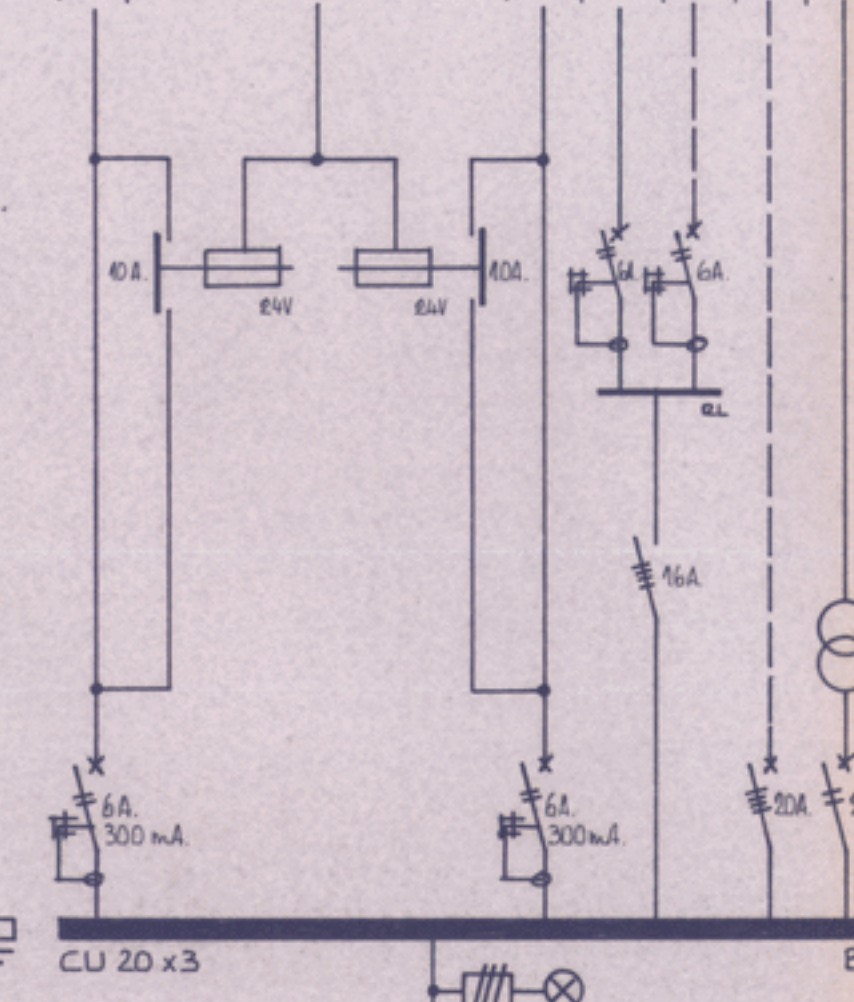
Q.F.3

ILUMINAÇÃO NORMAL		TOMADAS USOS GERAIS		RESERVA
V(2x1.5+T1.5) mm.2 - 10/16		V(2x2.5+T2.5) mm.2 - 10/20		
16	16	19	17	04
1	2	3	4	5
R	S	T	R	S



V(3x4+4+T4) mm.2

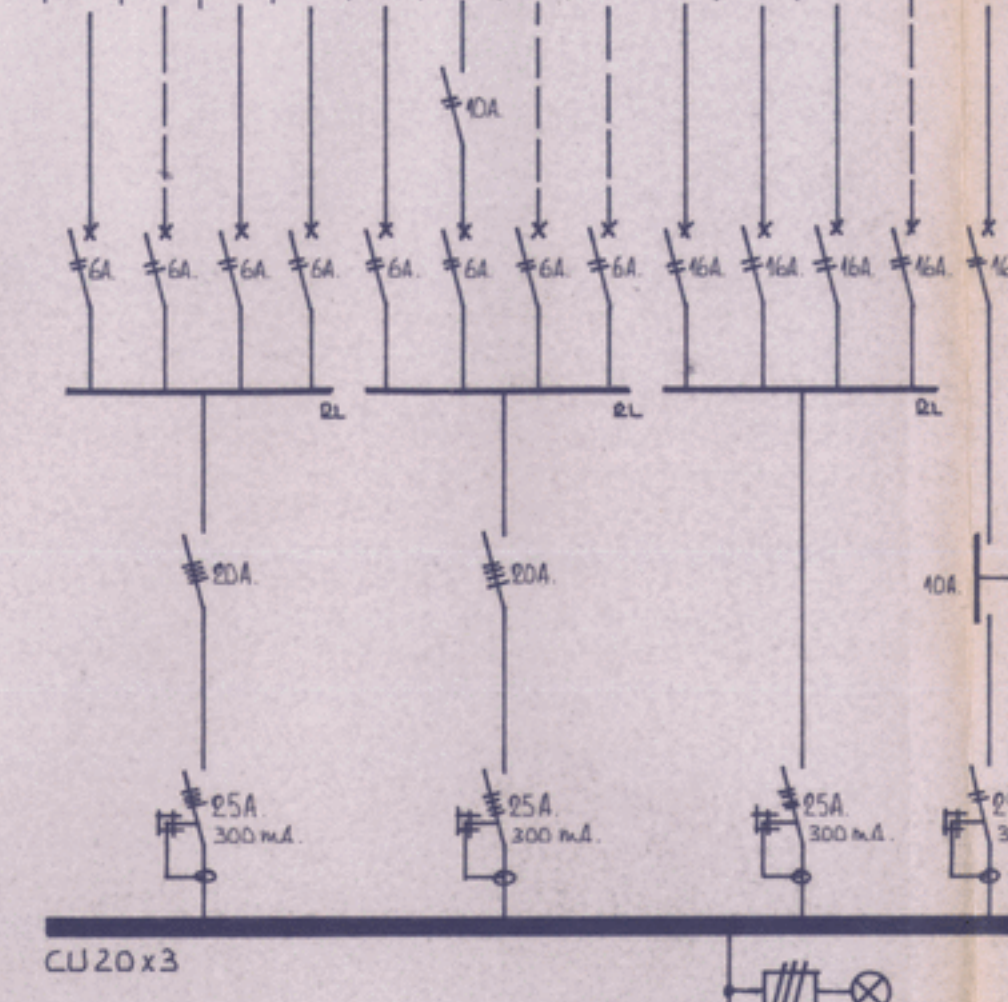
ILUMINAÇÃO EMERGÊNCIA E DE VIGIA		RESERVA	RESERVA
V(3x1.5+T1.5) mm.2 - 10/16		V(2x1.5) mm.2 - 10/16	V(2x2.5+T2.5) mm.2 - 10/20
07	03		
6	7	9	10
R	S	T	R



V(3x4+4+T4) mm.2

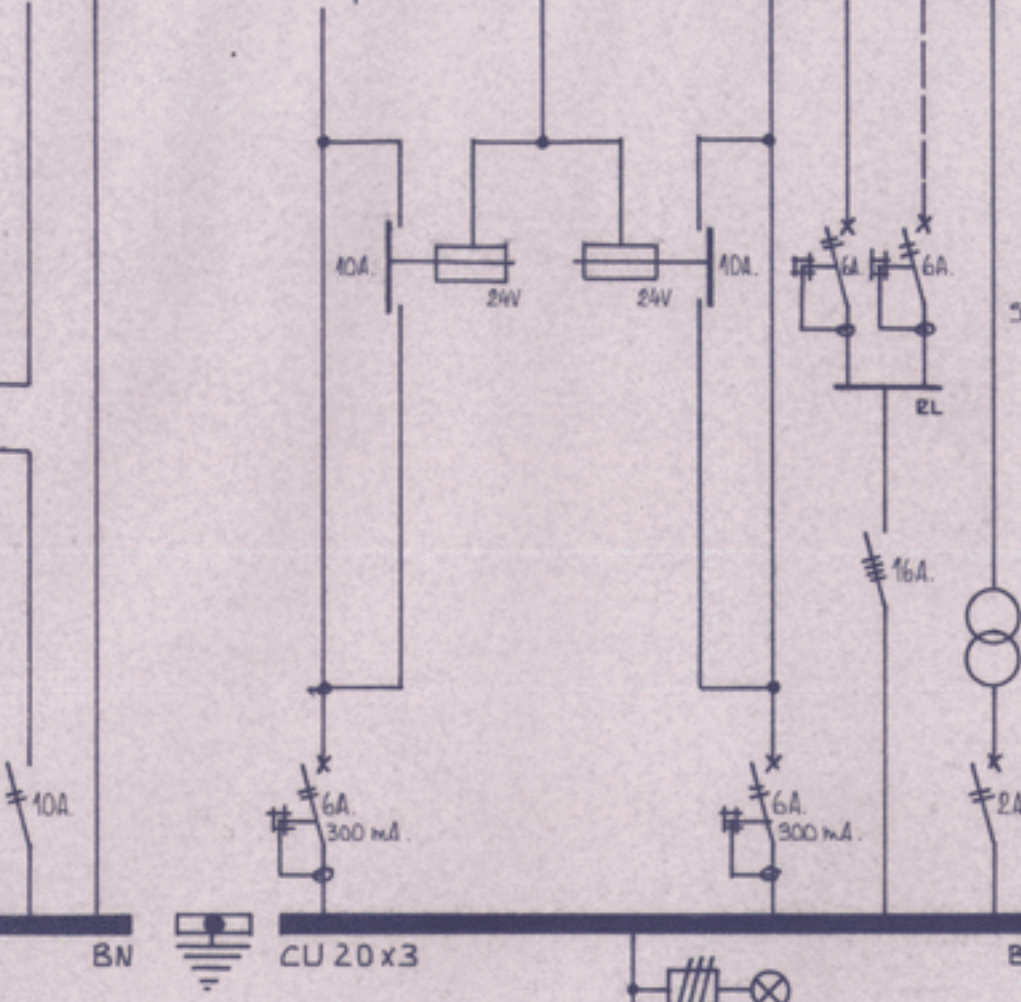
Q.F.4

ILUMINAÇÃO NORMAL		TOM. U. GERAIS		VE. 3
V(2x1.5+T1.5) mm.2 - 10/16		V(2x2.5+T2.5) mm.2 - 10/20		V(2x2.5+T2.5) mm.2 - 10/20
13	19	16	03	
1	2	3	4	5
R	S	T	R	S



V(3x4+4+T4) mm.2

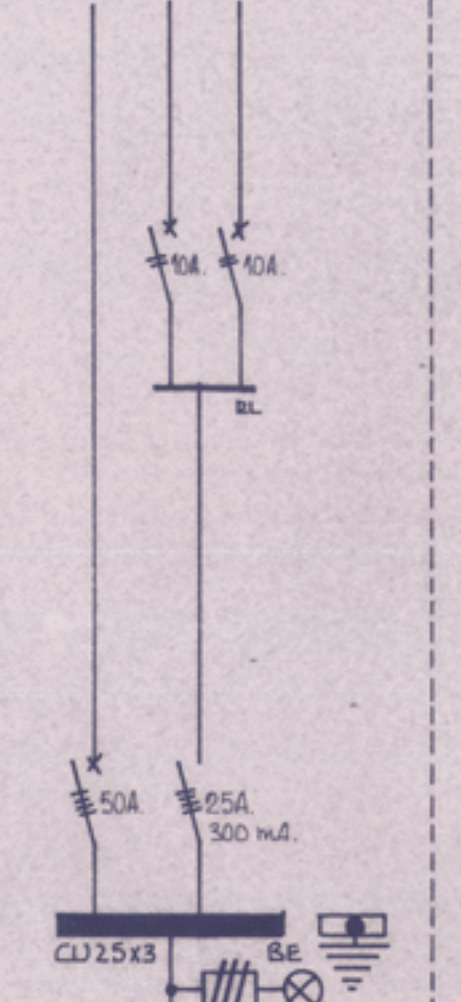
ILUM. EMERGÊNCIA E DE VIGIA		RESERVA	RESERVA
V(3x1.5+T1.5) mm.2 - 10/16		V(2x1.5) mm.2 - 10/16	V(3x1.5+T1.5) mm.2 - 10/16
09	07	03	
7	8	9	10
R	S	T	R



V(3x4+4+T4) mm.2

Q.ELEV.F

ELEV.F	RESERVA	RESERVA
V(3x16+10+T10) mm.2	V(2x2.5+T2.5) mm.2	V(2x2.5+T2.5) mm.2
07	03	
5	6	7
R	S	T



V(3x16+10+T10) mm.2

NOTAS:
LIGAÇÕES INTERNAS MÍNIMAS NÚ 6 mm.2
V 4 mm.2
RÉGUA DE LIGADORES (RL) 6 mm.2

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FACULDADE DE ARQUITECTURA DO PORTO

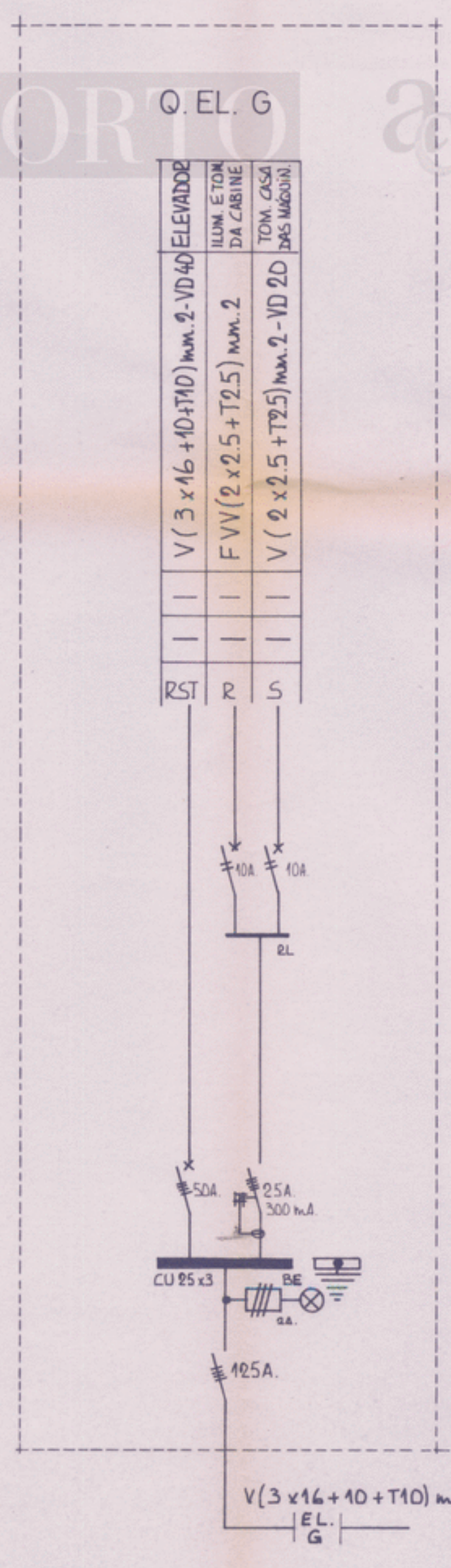
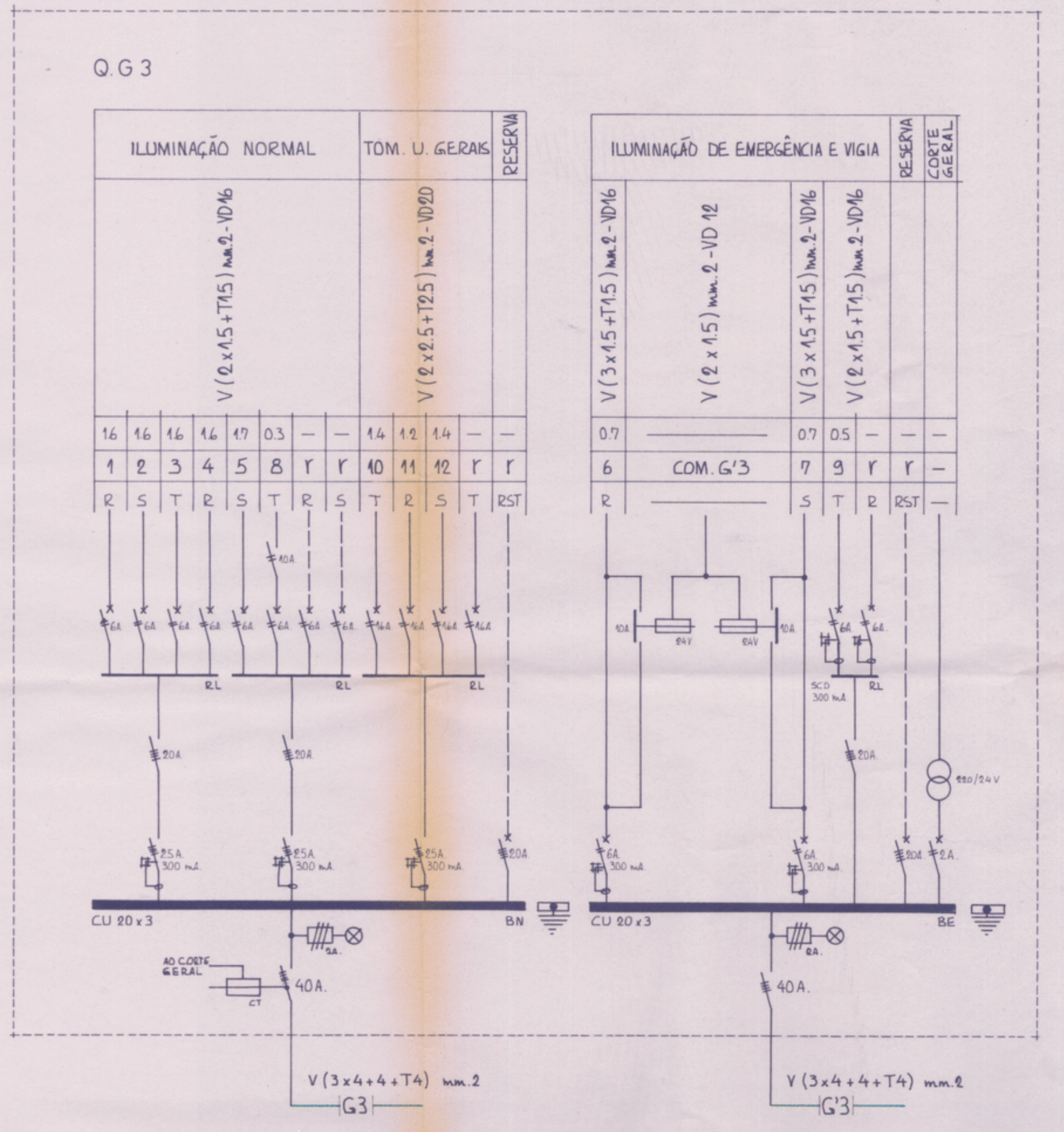
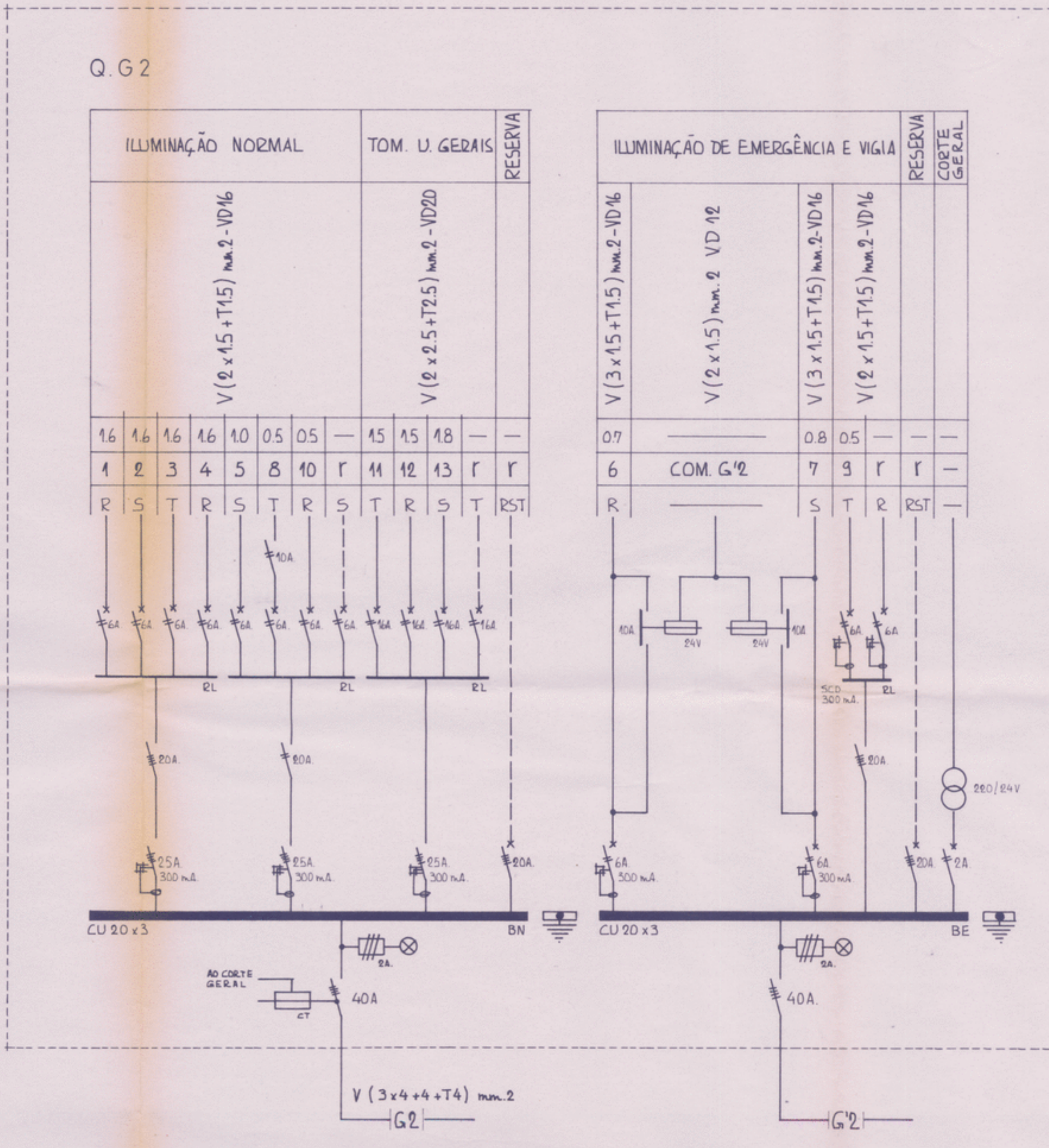
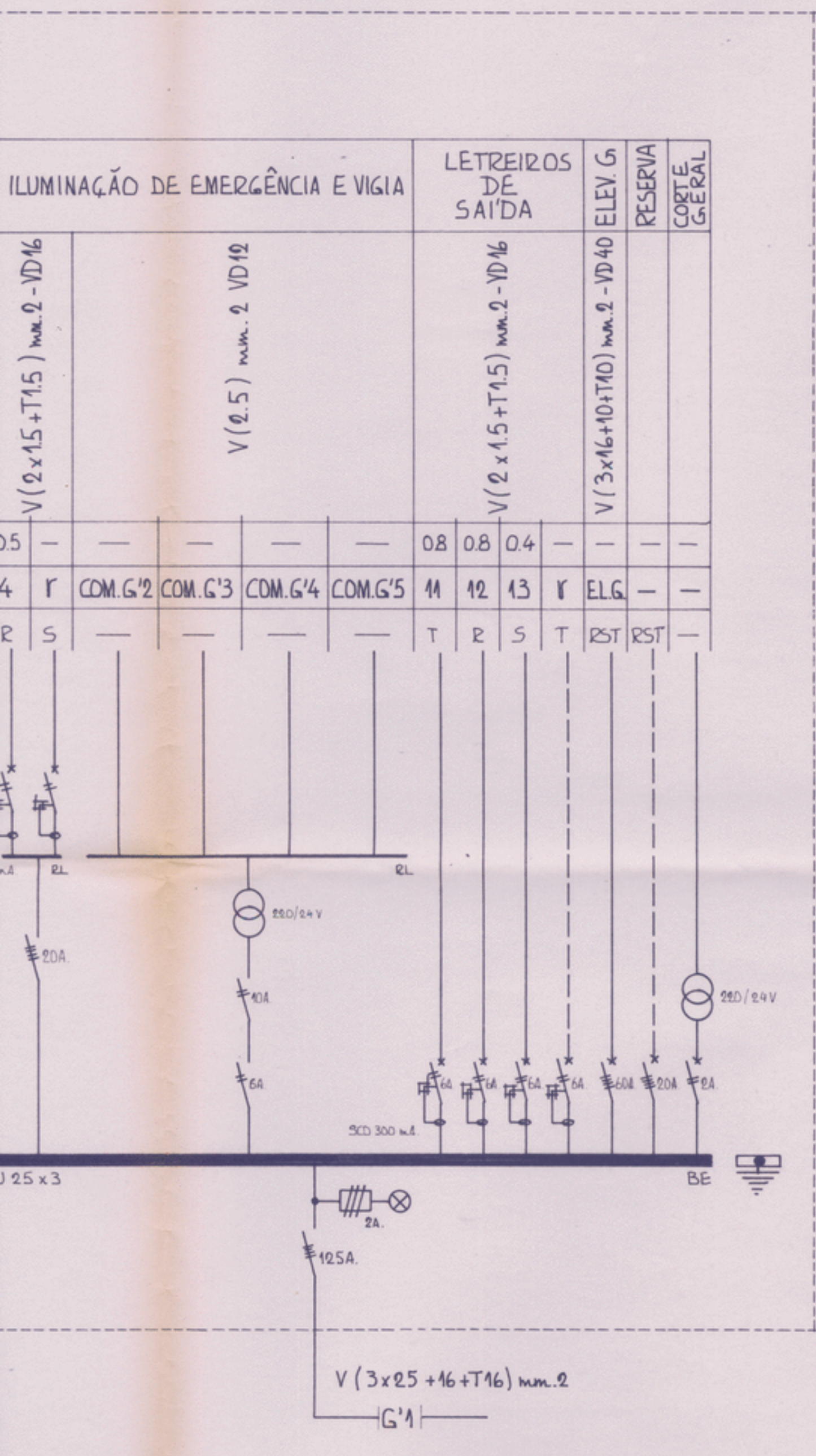
PROJECTO

GOP

QUADROS ELÉCTRICOS

Q.G.F., Q.F.1, Q.F.2, Q.D'4, Q.F.3, Q.F.4, Q.E.L.F.

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NOTAS:

LIGAÇÕES INTERNAS MÍNIMAS NÚ 6 mm. 2
V 4 mm. 2

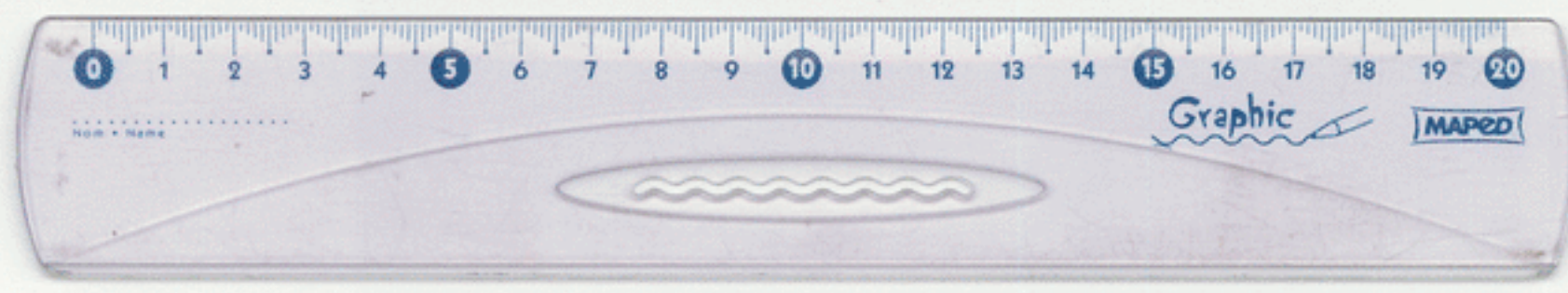
REGUA DE LIGADORES (RL) 6 mm. 2

FACULDADE DE ARQUITECTURA DO PORTO

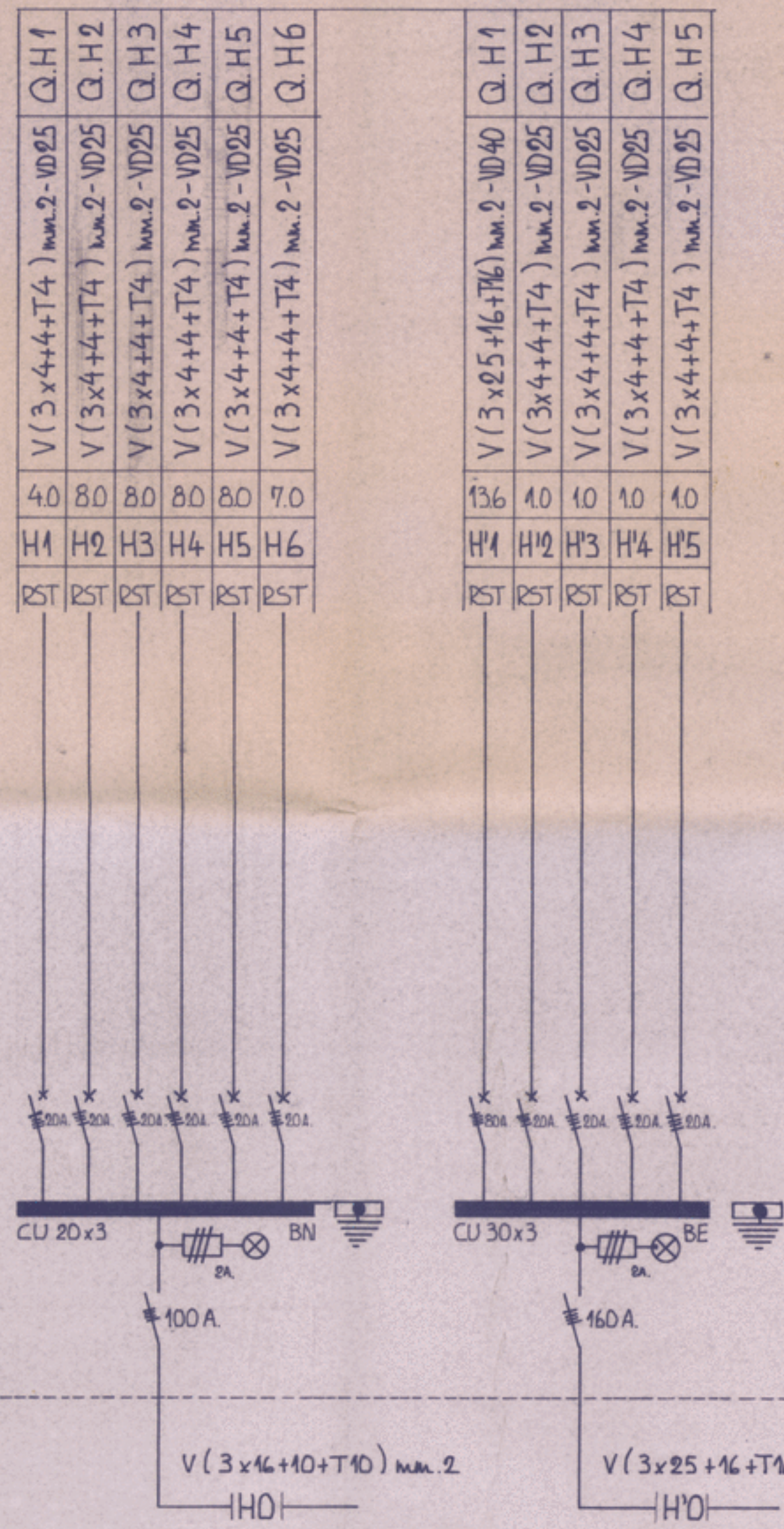
PROJECTO electricidade

QUADROS ELÉCTRICOS
Q.G.6, Q.G.1, Q.G.2, Q.G.3,
Q.G.4, Q.EL.G

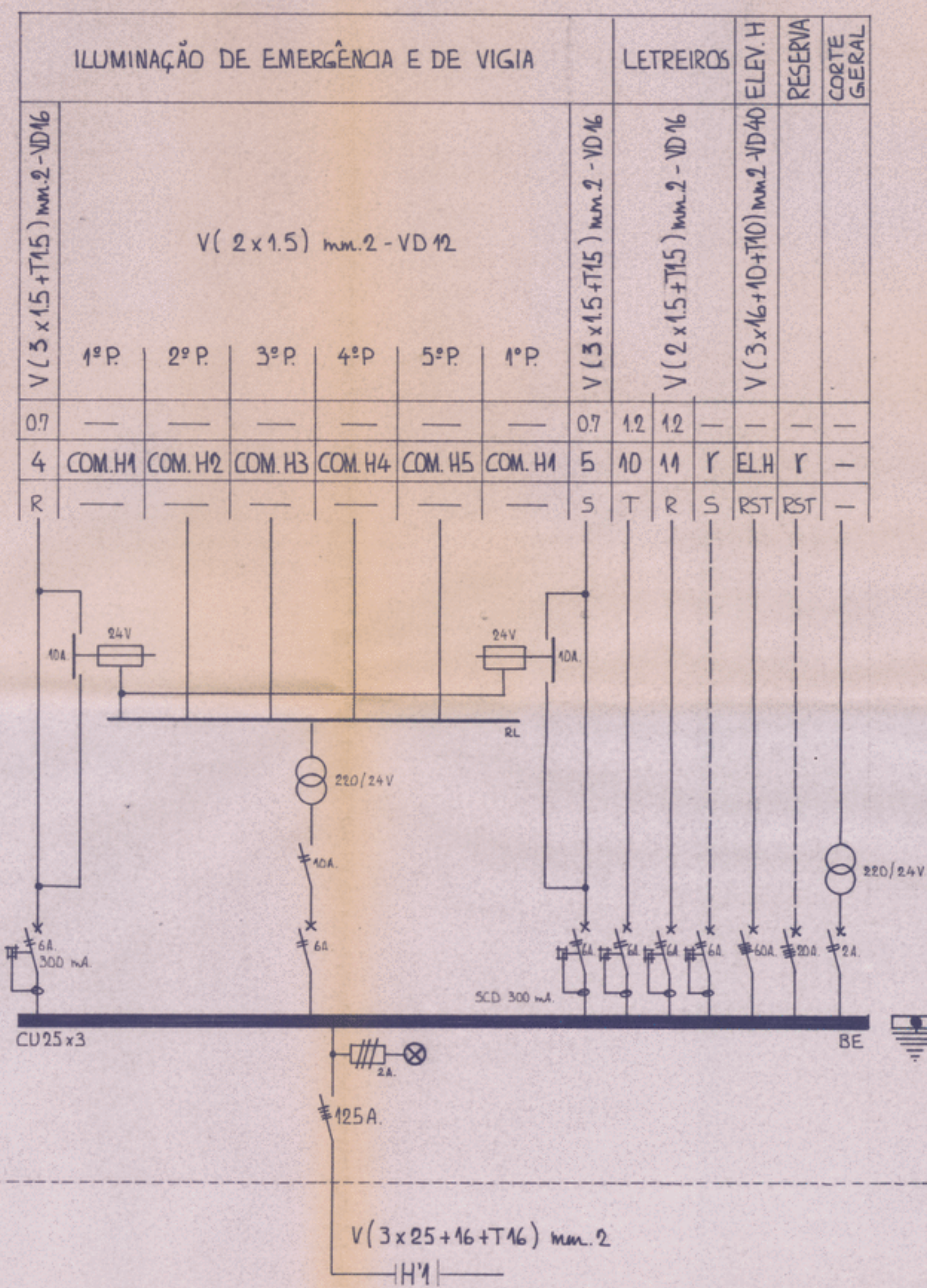
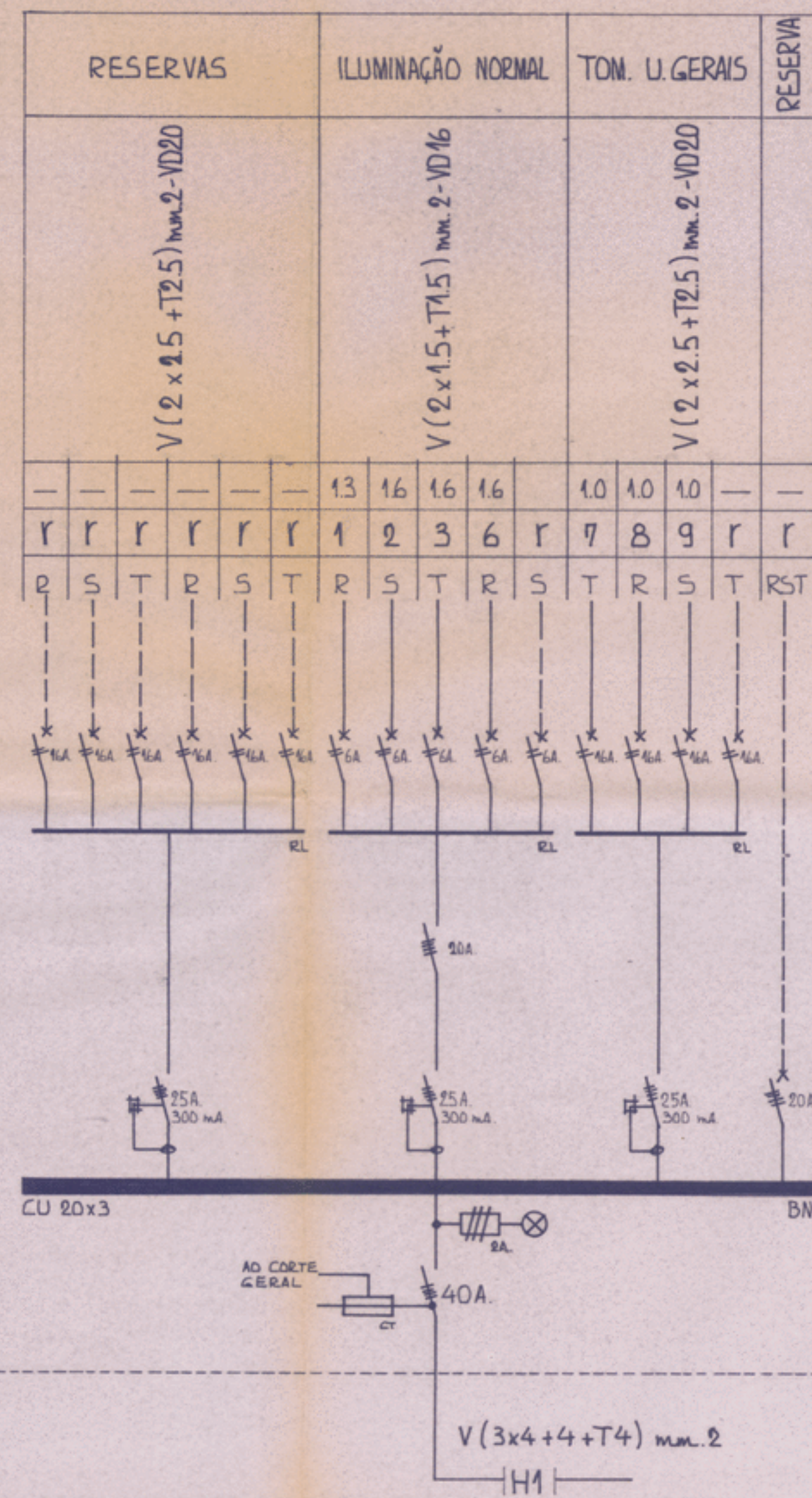
81/1216 a



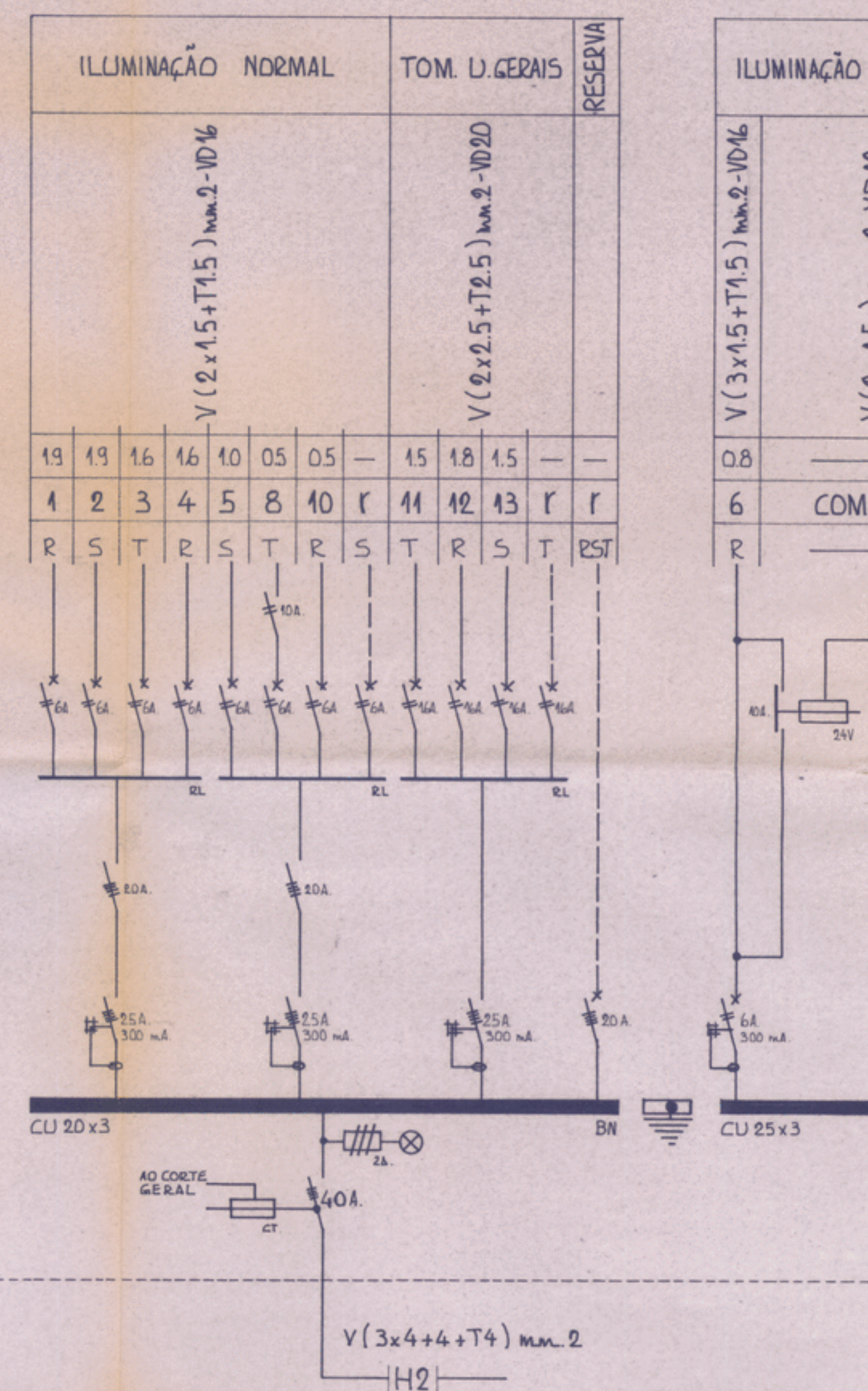
Q. G. H



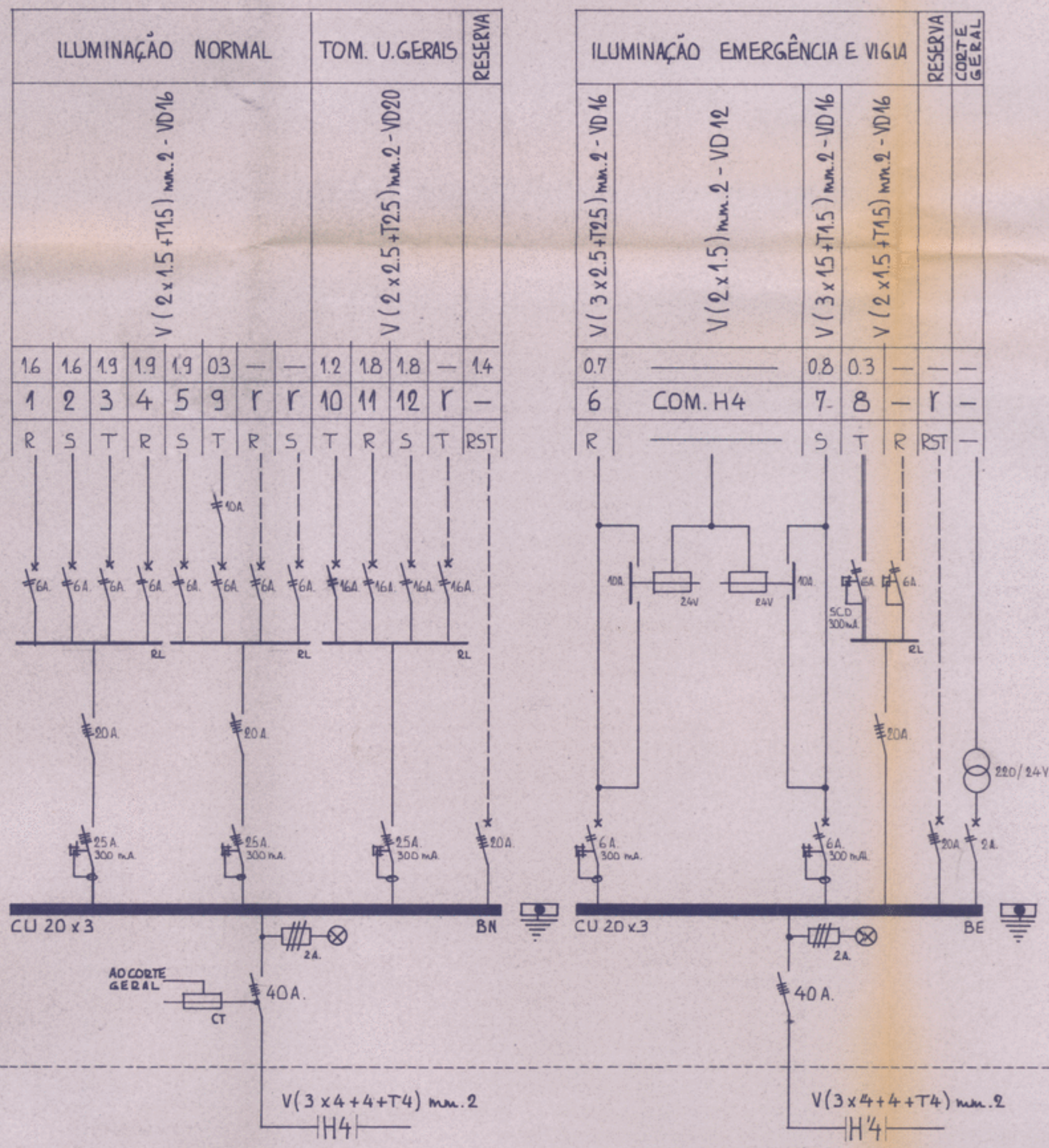
Q. H1



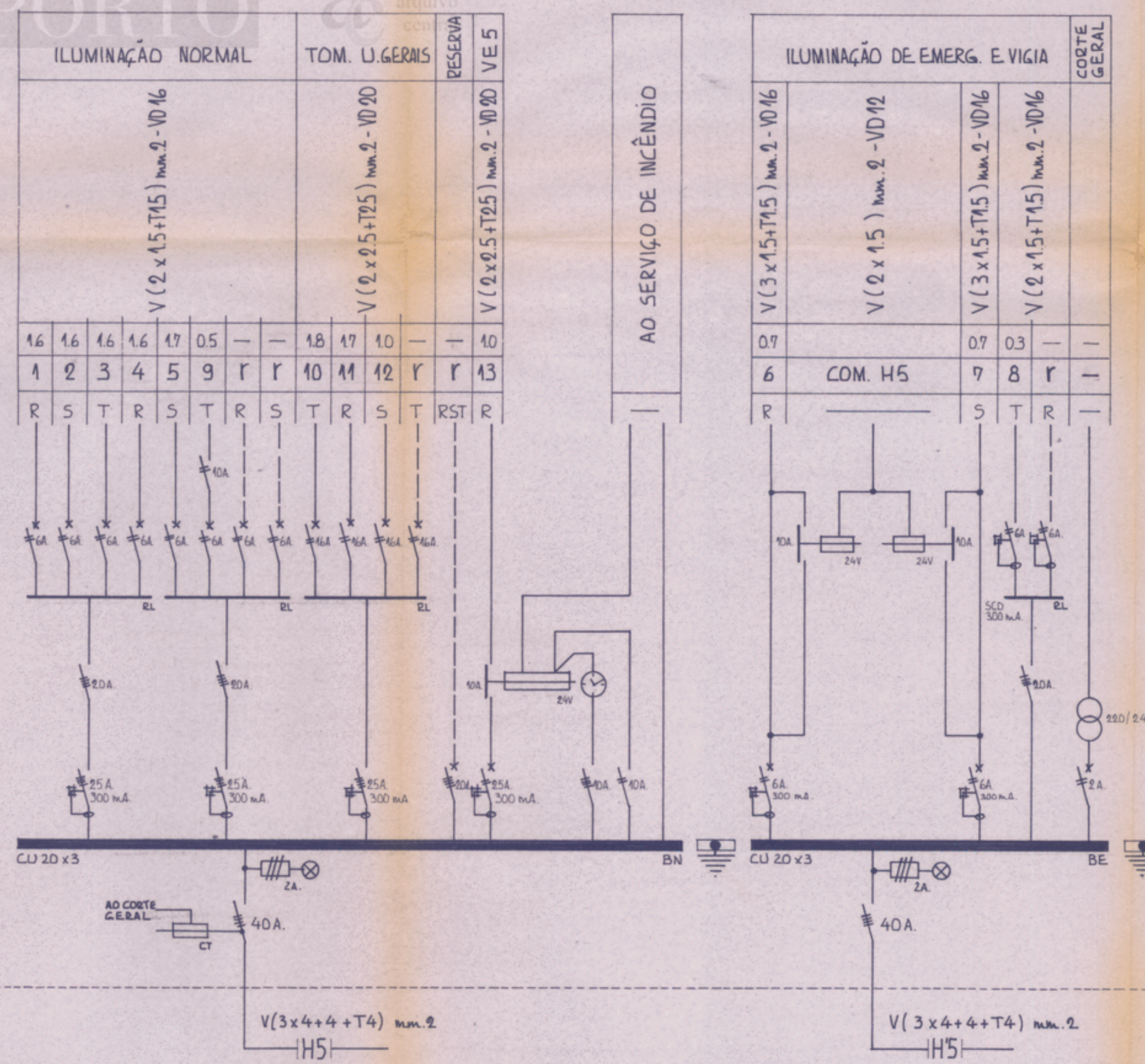
Q. H2



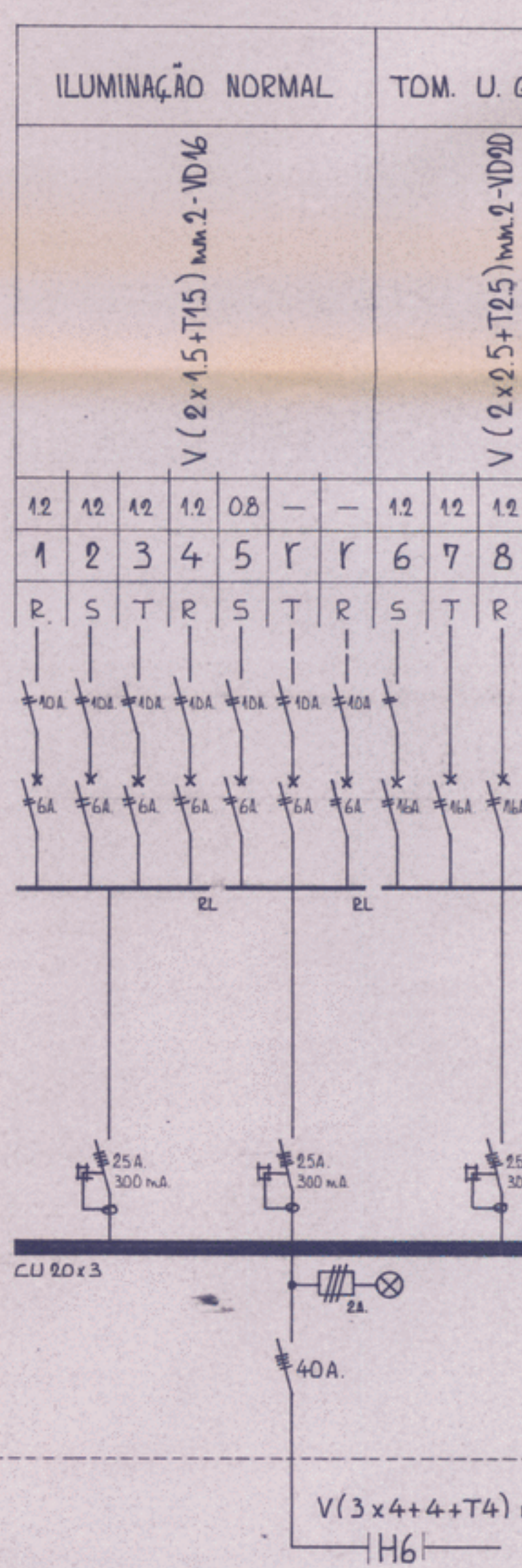
Q. H4



Q. H5

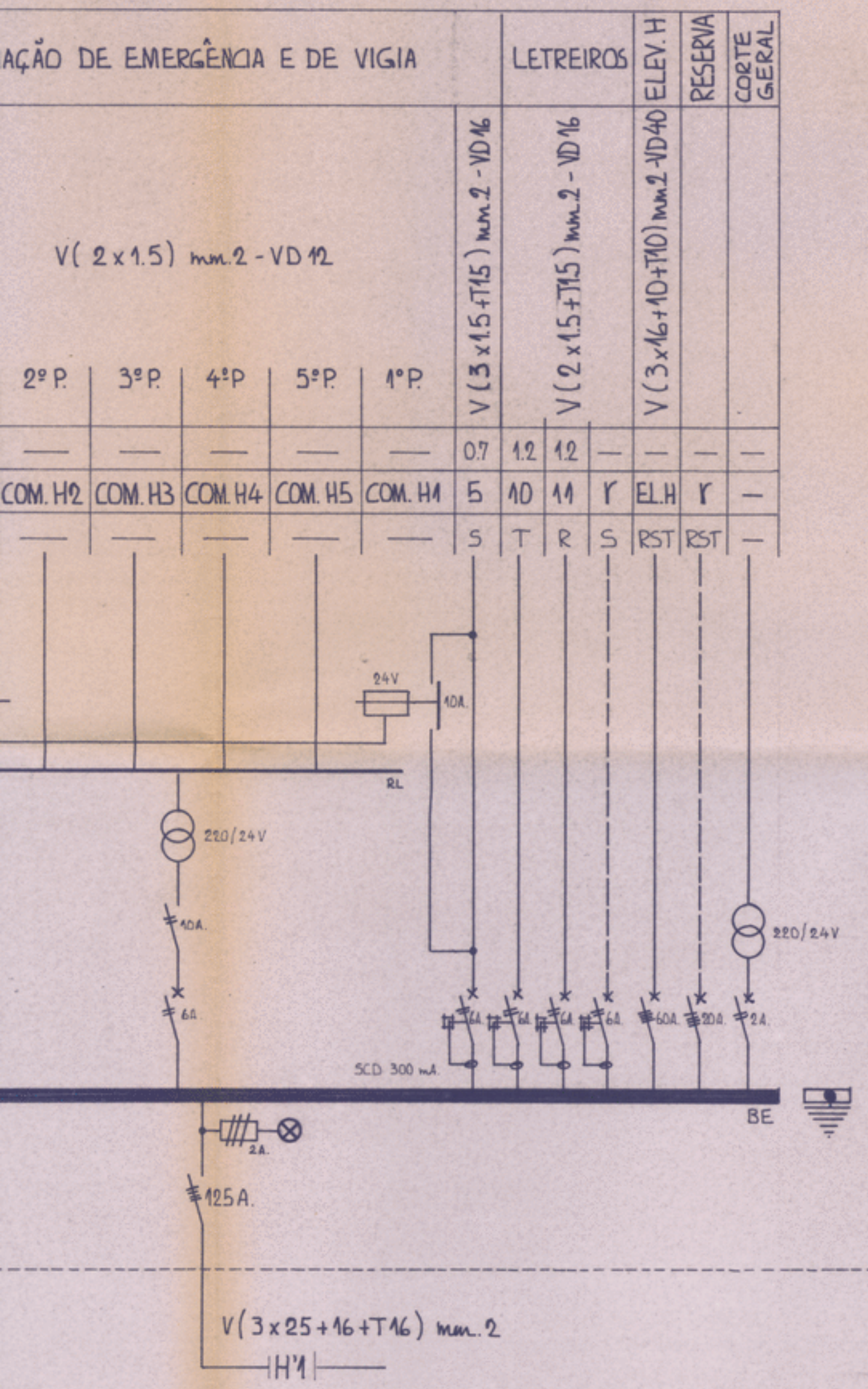


Q. H6

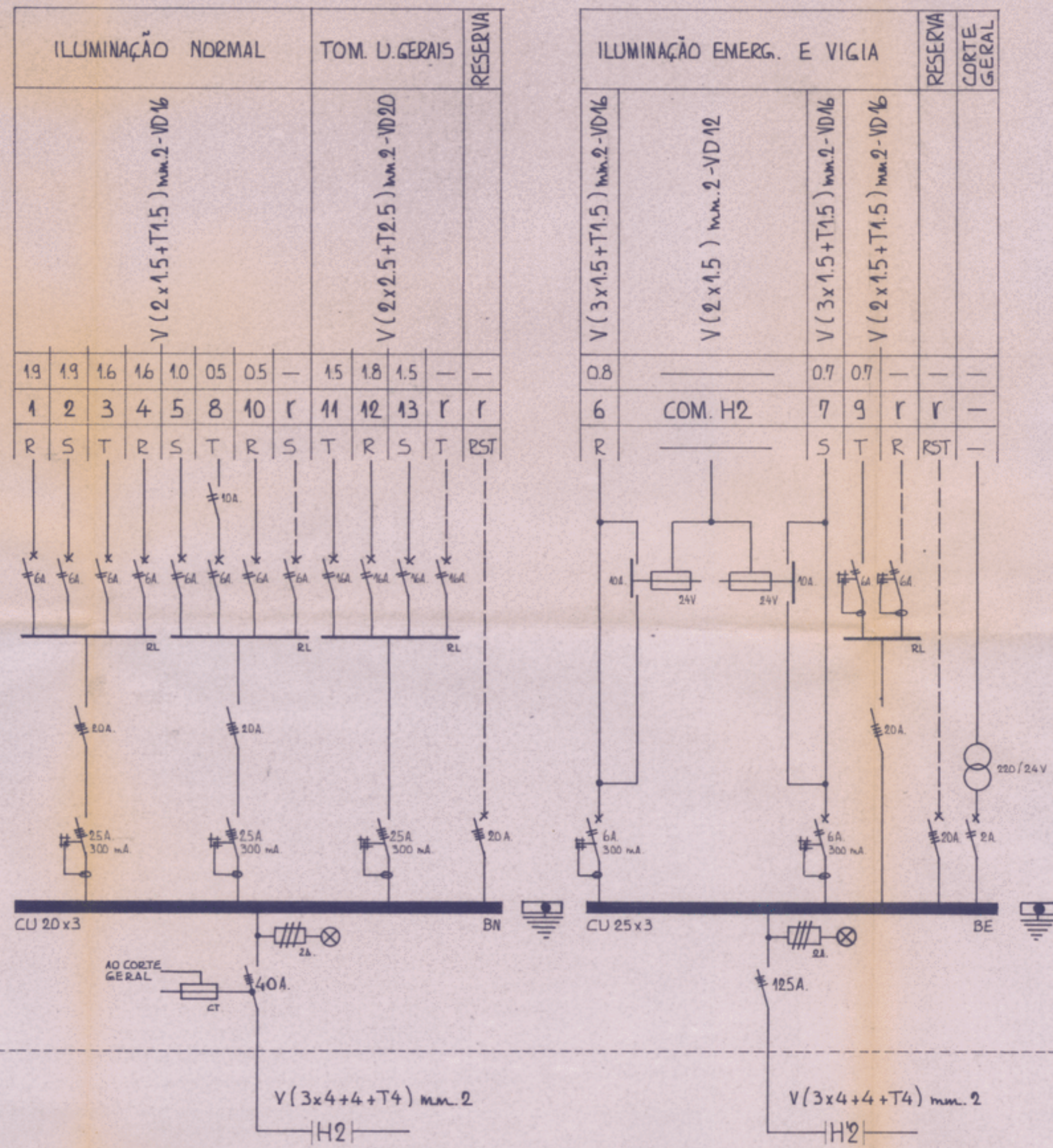


1/2

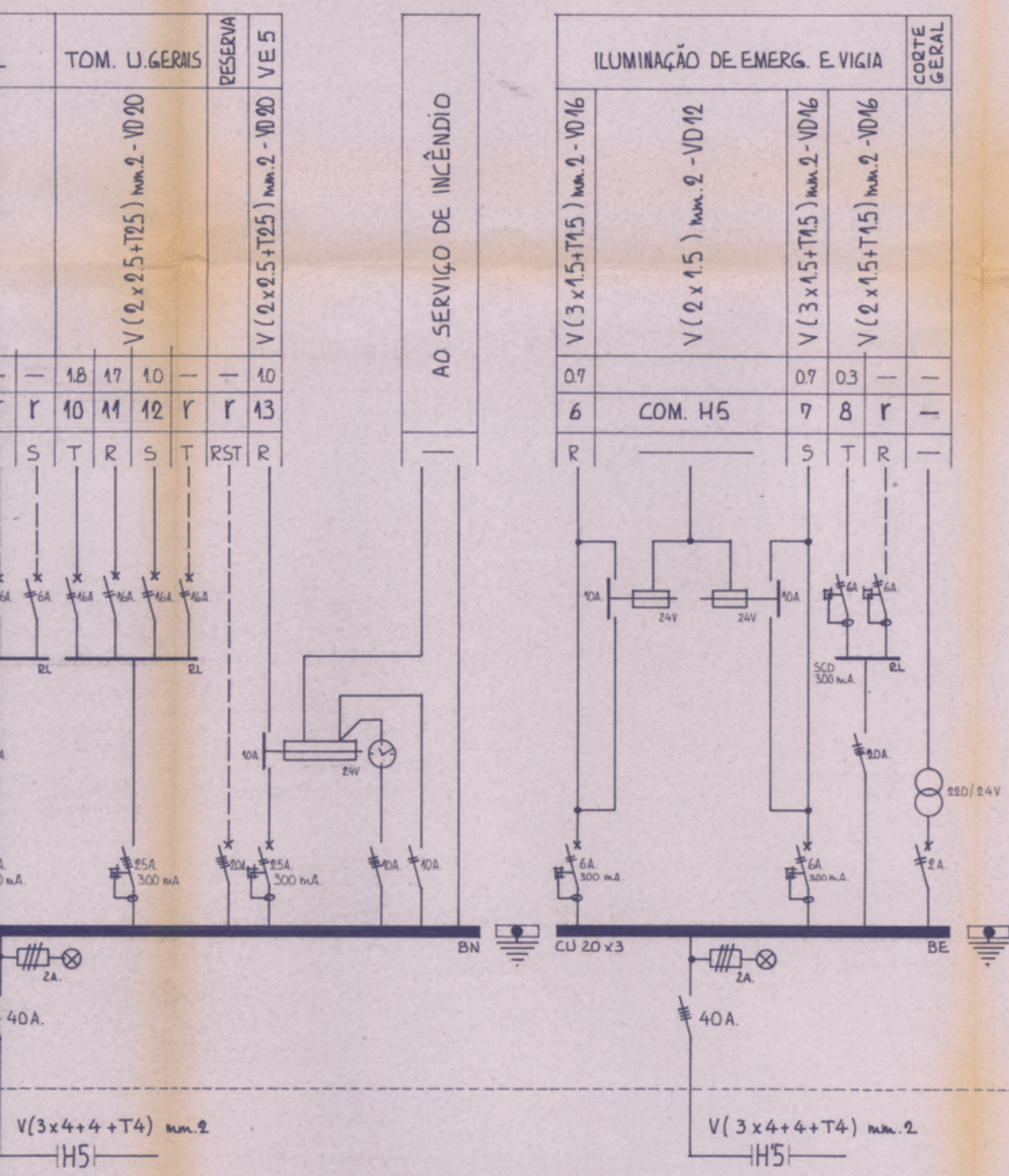
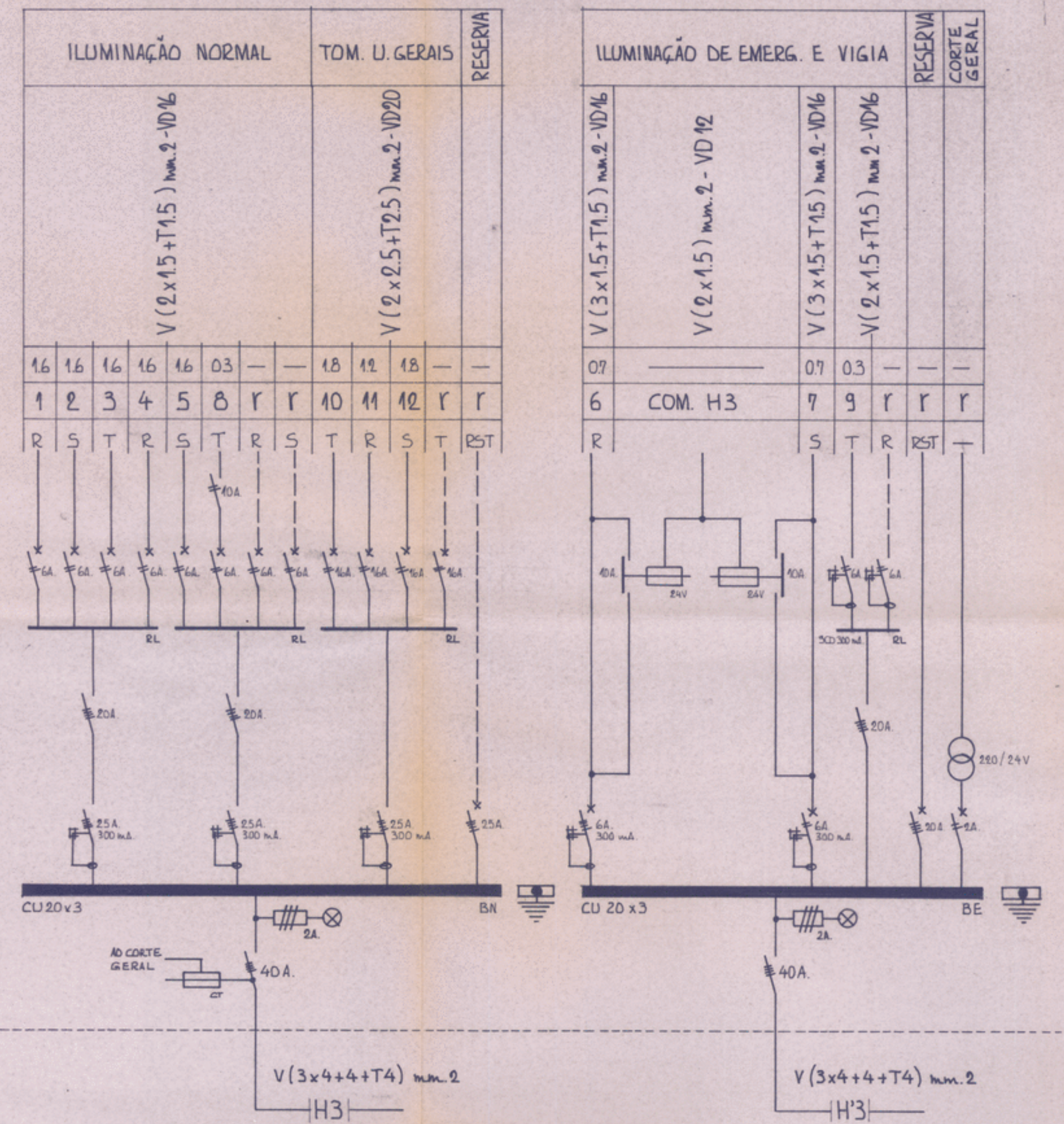




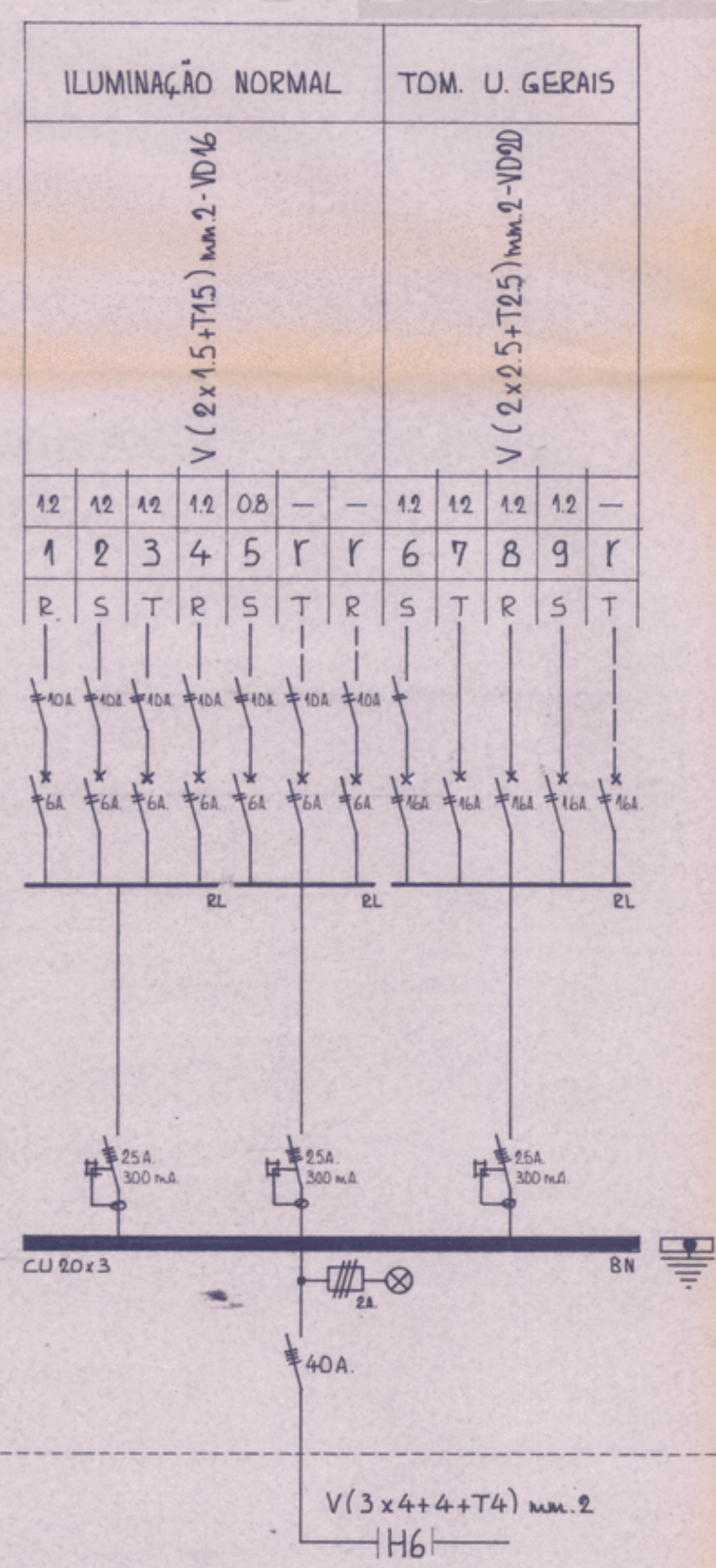
Q. H 2



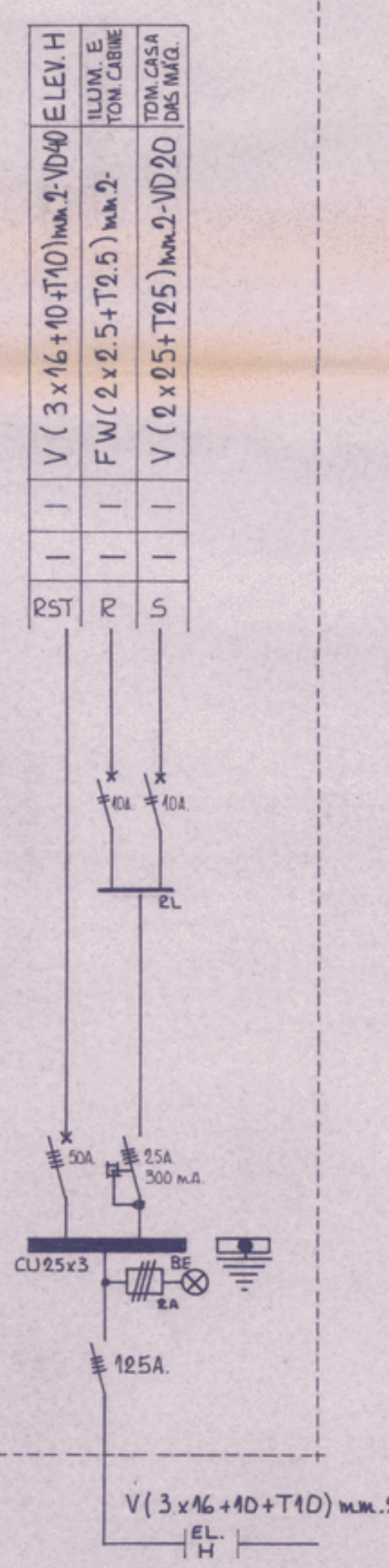
Q. H 3



Q. H 6



Q. ELEV. H



NOTAS:
LIGAÇÕES INTERNAS MÍNIMAS NÚ 6 mm.2
V 4 mm.2
REGRAS DE LIGADORES (RL) 6 mm.2

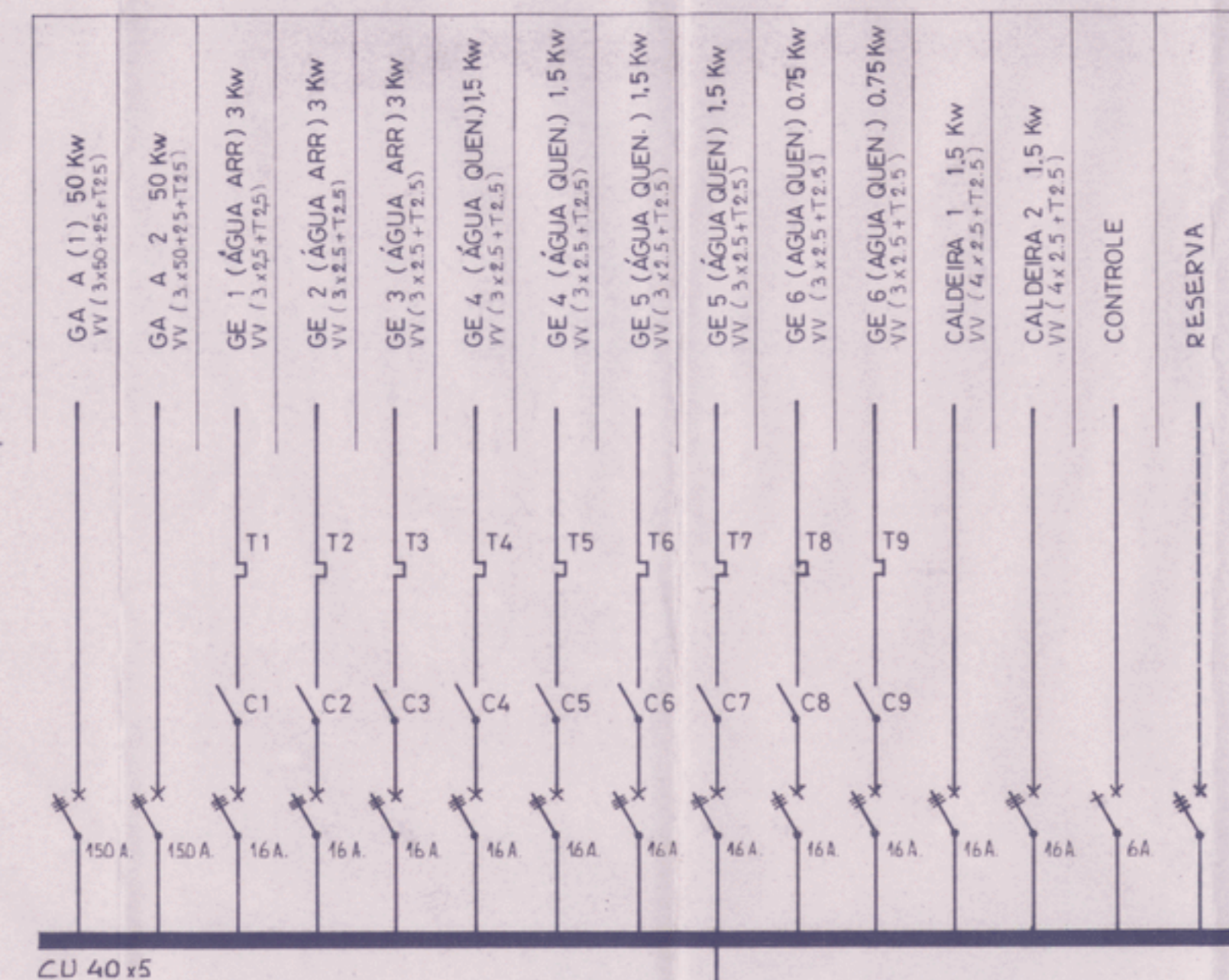
FACULDADE DE ARQUITECTURA DO PORTO

PROJECTO electricidade

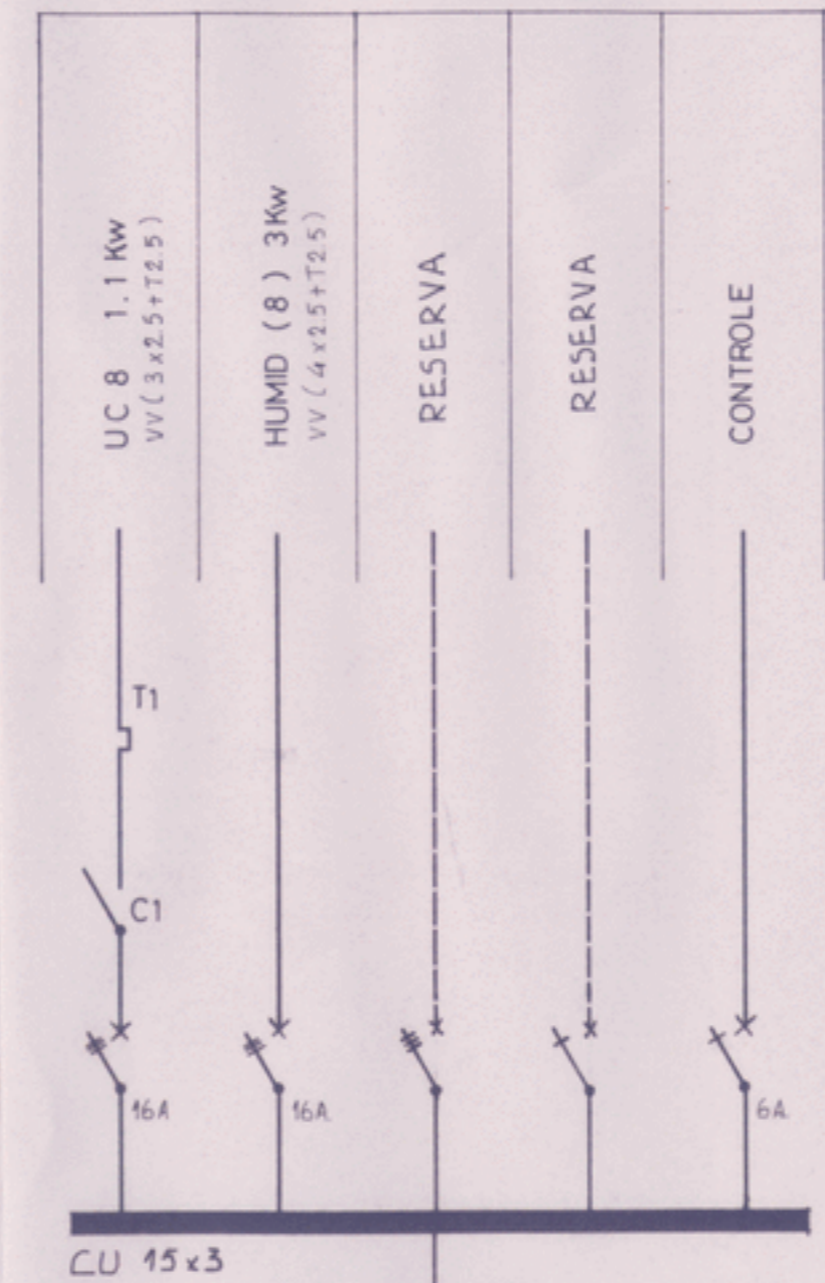
QUADROS ELÉCTRICOS
Q.G.H, Q.H1, Q.H2, Q.H3,
Q.H4, Q.H5, Q.H6, Q.EL.H

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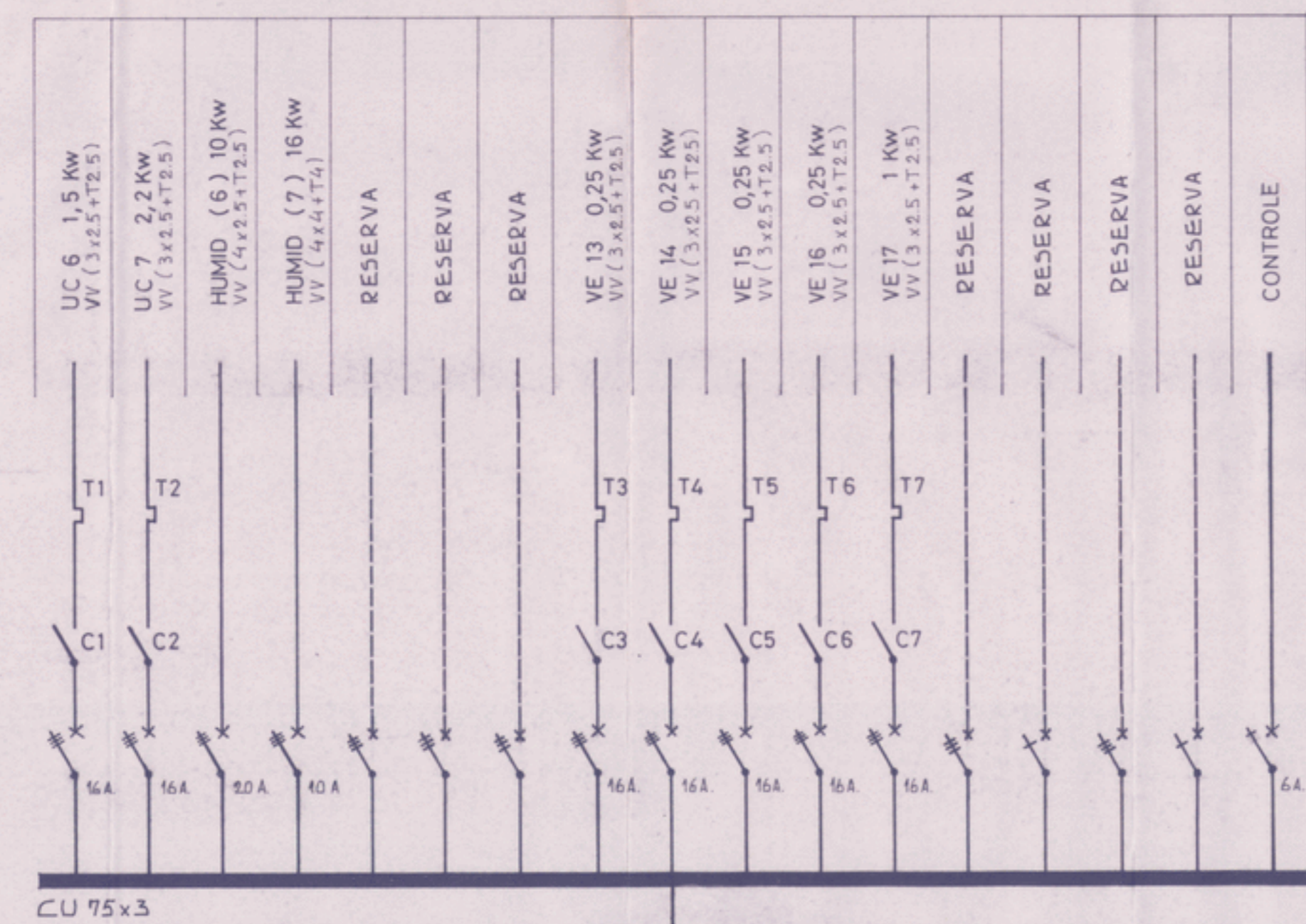




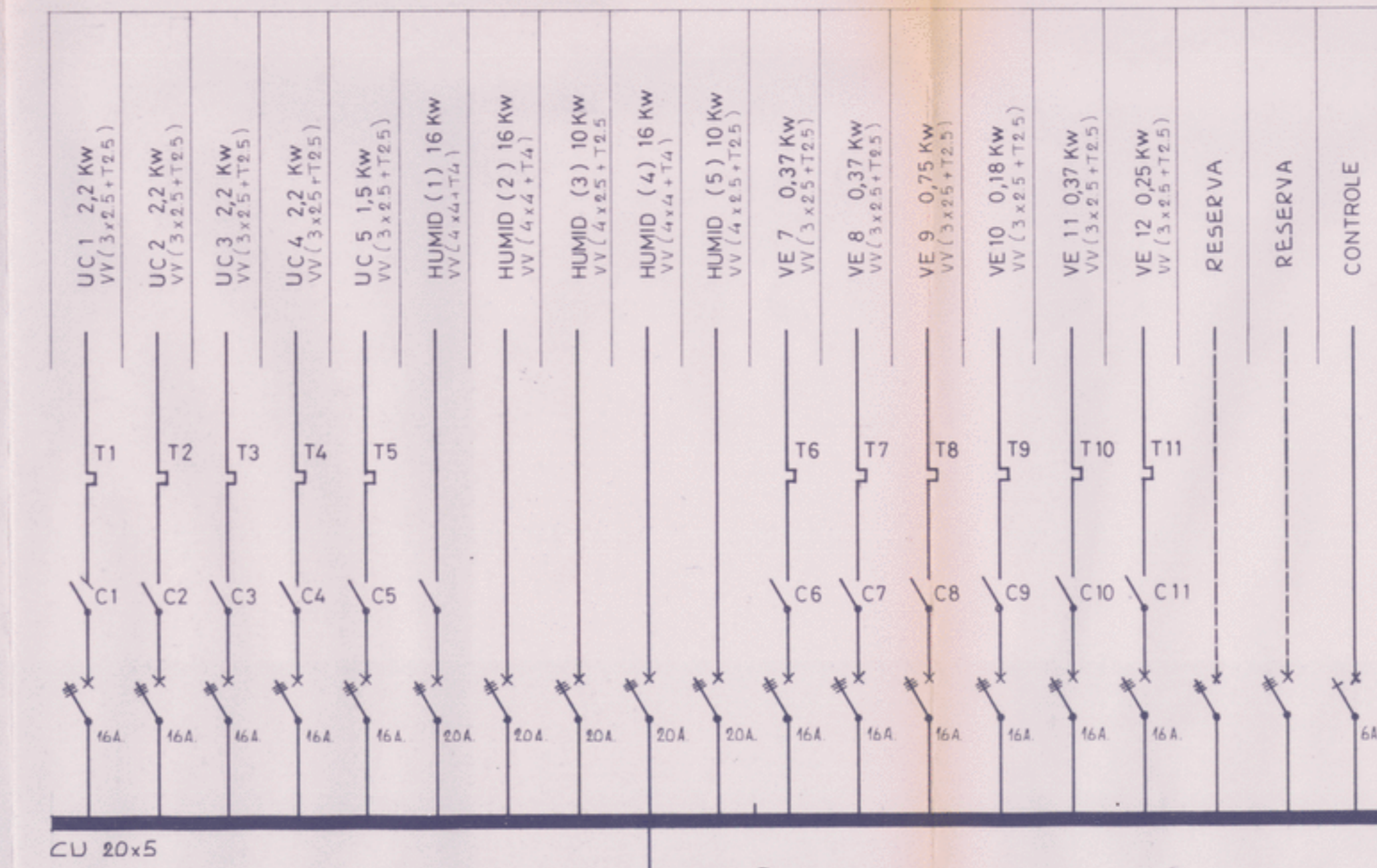
QE.AC.1
(central térmica)
VV(3x95+50+T50)mm²



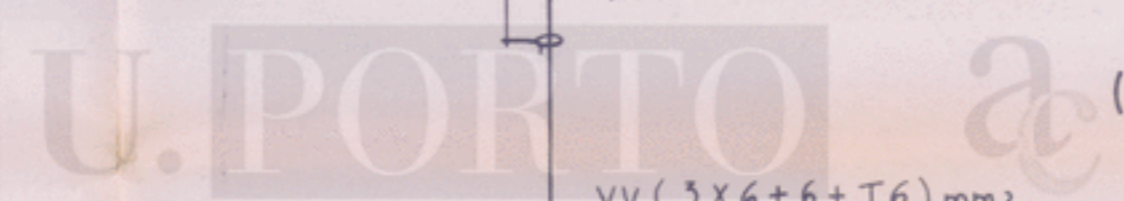
QE.AC.3
(arquivo geral)
central
VV(3x4+6+T6)mm²



QE.AC.2.
(central C1)
VV(3x16+10+T10)mm²



QE.AC.4
(central AC)
VV(3x50+25+T25)mm²



FACULDADE DE ARQUITECTURA DO PORTO		PROJECTO		electricidade	
Primo:	8-89	PROJECTO		electricidade	
Dir.:		PROJECTO		electricidade	
Cap.:		PROJECTO		electricidade	
Verific.:		PROJECTO		electricidade	
Escalas				81/1218	
QUADROS ELÉCTRICOS				81/1218	
QE AC1, QE AC2, QE AC3, QEAC 4.				81/1218	
Substituído por:				81/1218	

Q.G.E

Q.ECV	Q.E1	Q.E2	Q.E3	Q.E4
V(3x4+4+T4) mm.2-VD6	V(3x4+4+T4) mm.2-VD6	V(3x4+4+T4) mm.2-VD6	V(3x4+4+T4) mm.2-VD6	V(3x4+4+T4) mm.2-VD6
30	60	90	10	90
ECV	E1	E2	E3	E4
RST	RST	RST	RST	RST

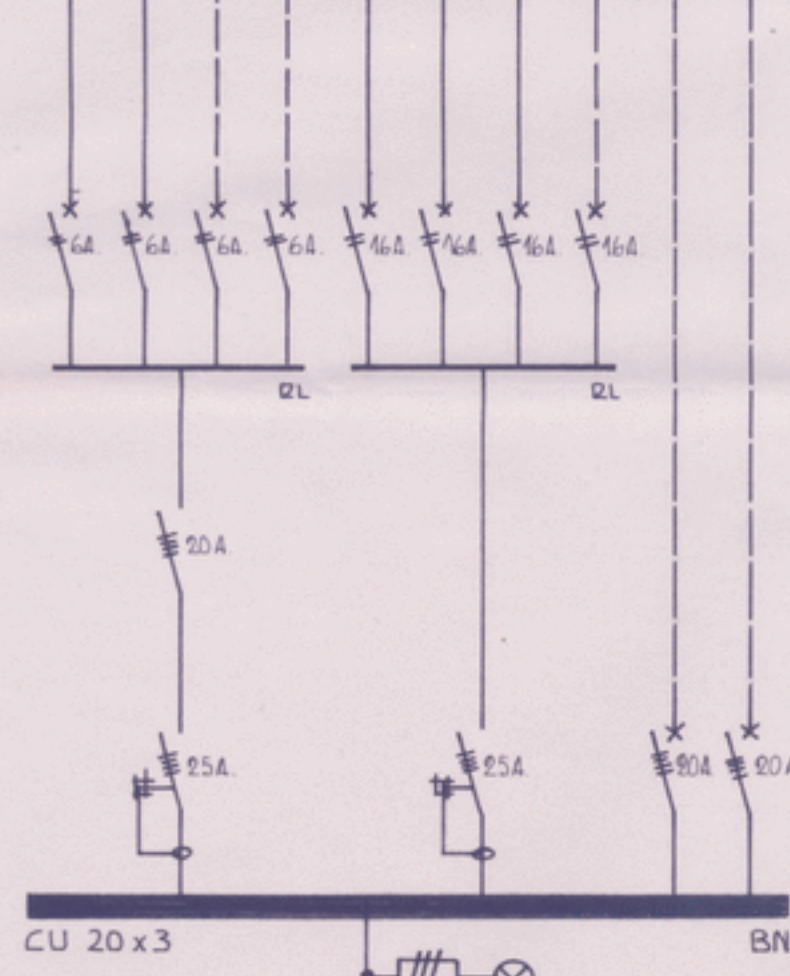


VV(3x35+16+T16) mm.2

VV(3x35+16+T16) mm.2

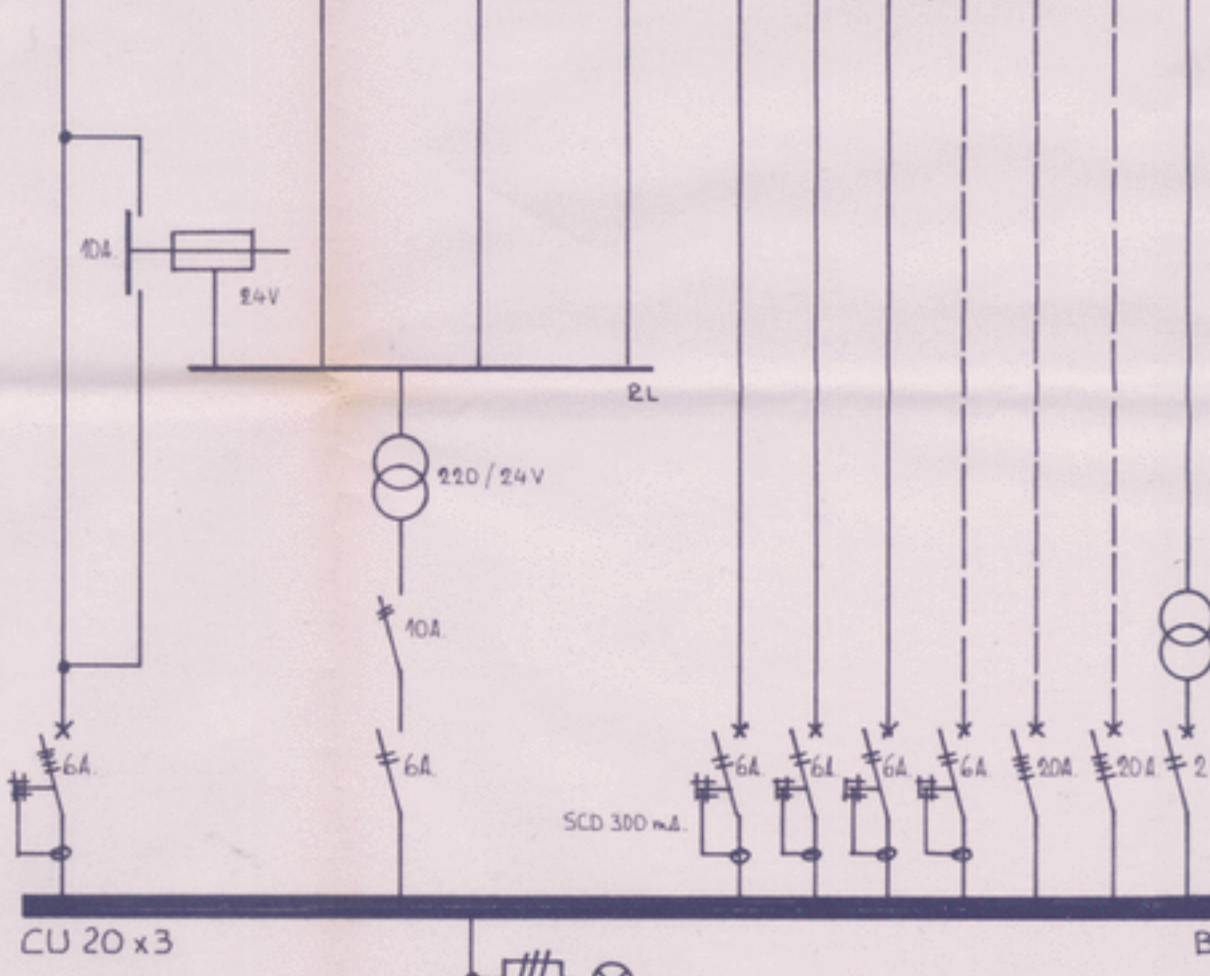
Q.E1

ILUMIN. NORMAL	TOMADAS U. GERAIS	RESERVA	RESERVA
V(2x1.5+T1.5) mm.2-VD16	V(2x0.5+T2.5) mm.2-VD20		
17	14	12	
1	4	6	
R	S	T	RST



V(3x4+4+T4) mm.2

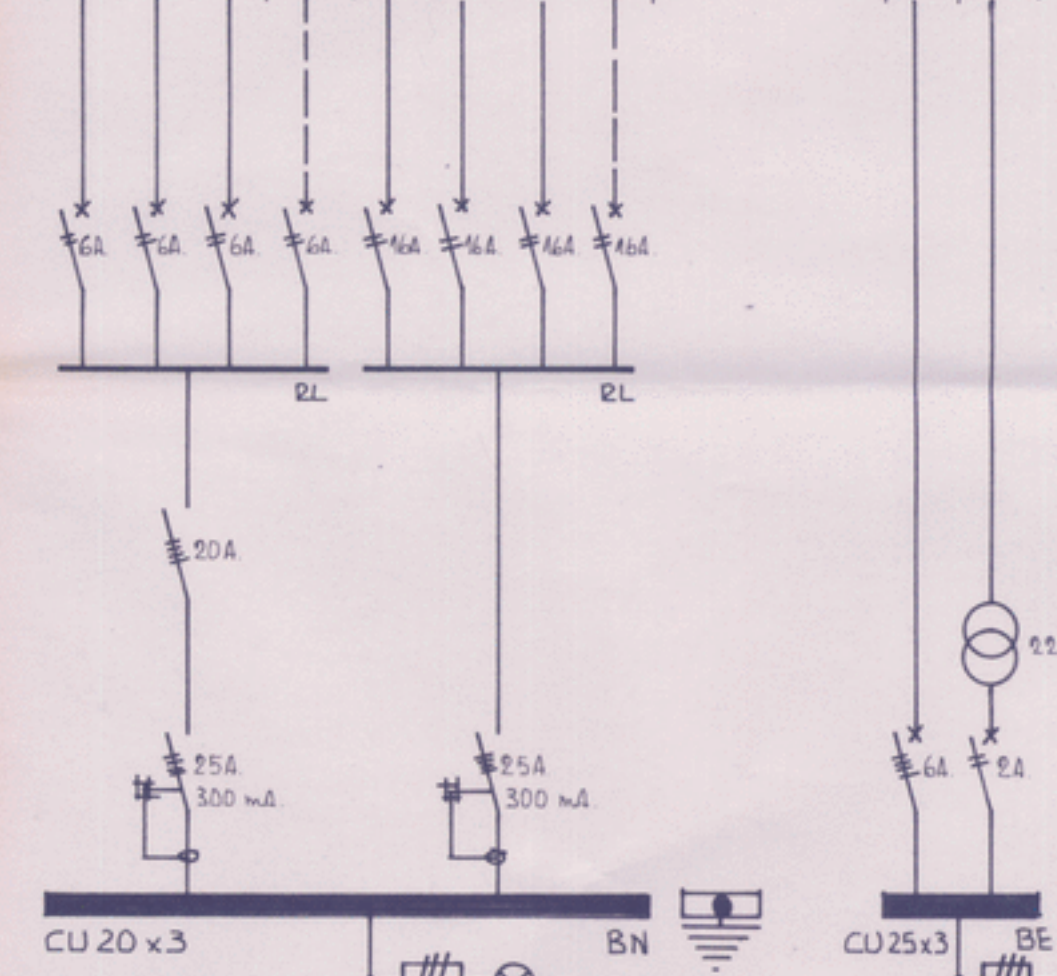
ILUMINAÇÃO EMERGÊNCIA E VIGIA	LEITORES DE SAÍDA	RESERVA	RESERVA	CORTE GERAL
V(3x1.5+T1.5) mm.2-VD16	V(2x1.5) mm.2-VD12			
1ºP	2ºP	3ºP	4ºP	
10				
3	COM.E1	COM.E2	COM.E3	COM.E4
T	R	S	T	RST



V(3x4+4+T4) mm.2

Q.ECV

ILUMIN. NORMAL	TOM. U. GERAIS	ELEV. E CORTE GERAL
V(2x1.5+T1.5) mm.2-VD16	V(2x0.5+T2.5) mm.2-VD20	VV(3x16+10+T10) mm.2
04	10	
1	4	
R	S	RST

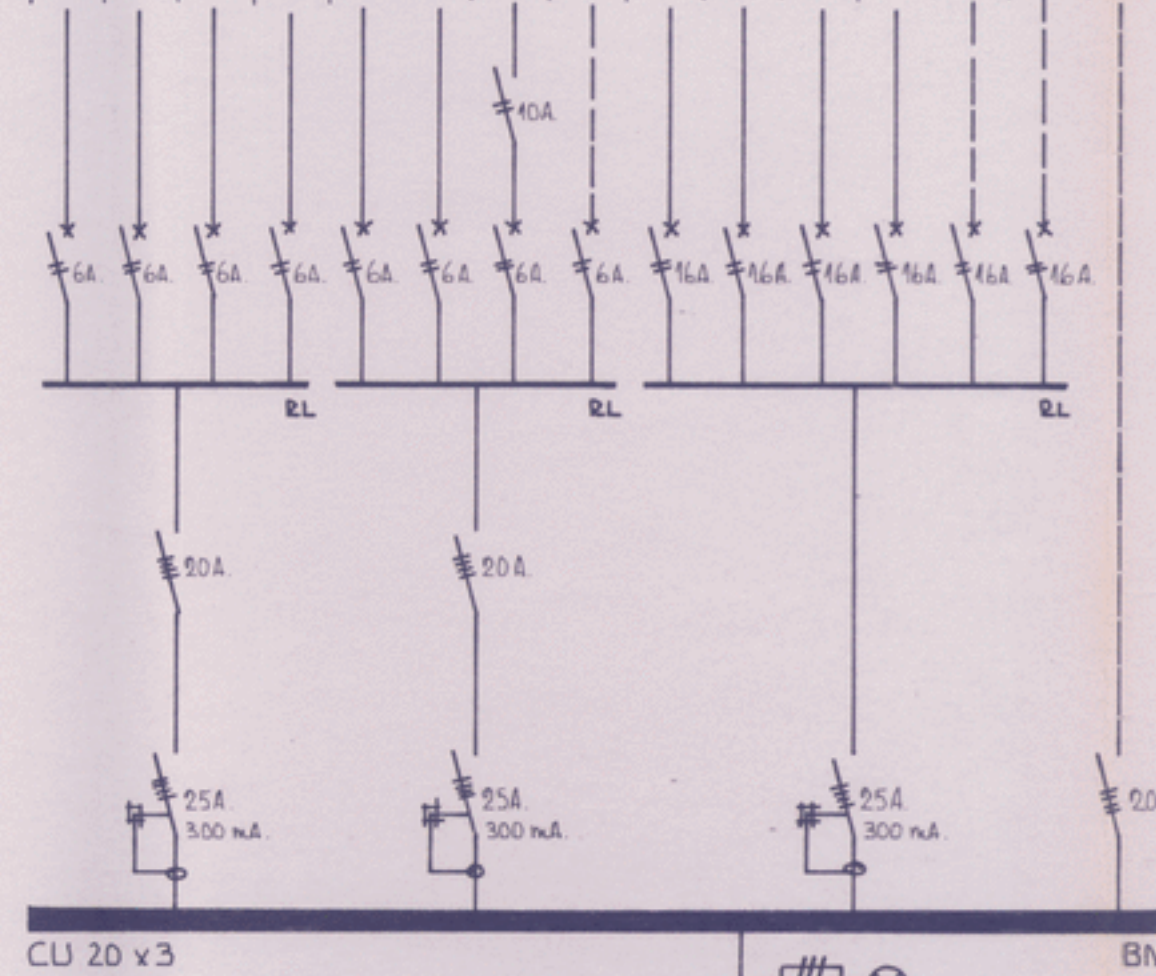


V(3x2.5+16+T16) mm.2

ECV

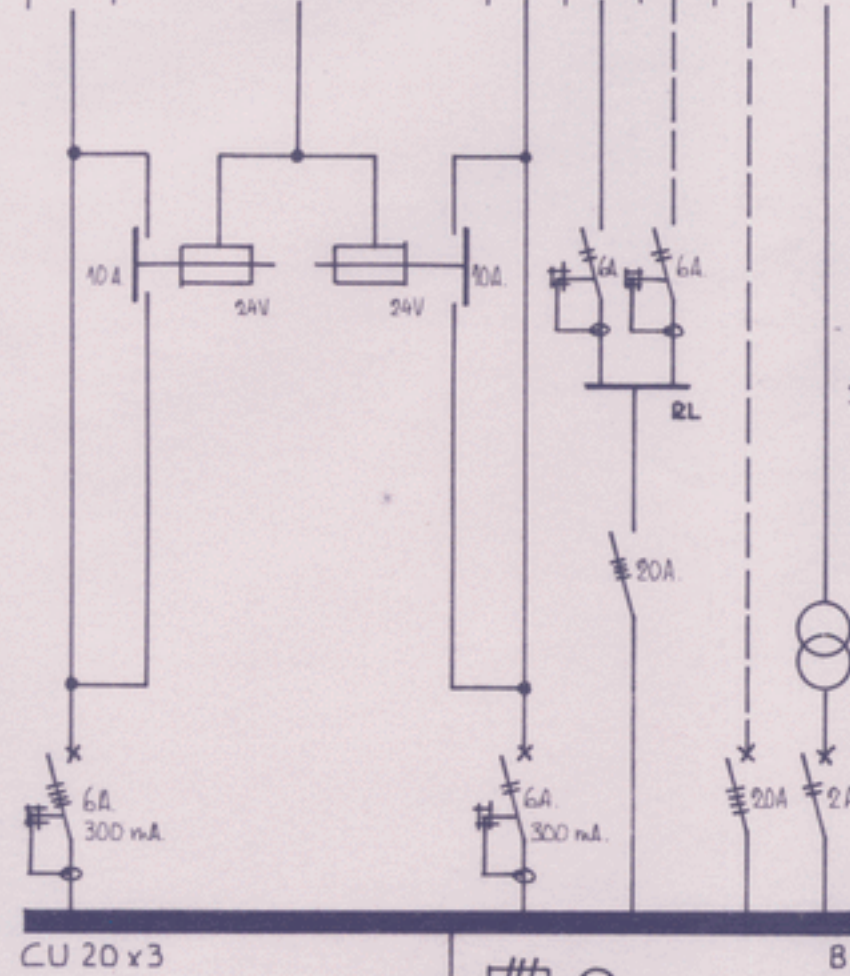
Q.E3

ILUMINAÇÃO NORMAL	TOMADAS USOS GERAIS	RESERVA
V(2x1.5+T1.5) mm.2-VD16	V(2x0.5+T2.5) mm.2-VD20	
16	15	10
1	11	13
R	S	T



V(3x4+4+T4) mm.2

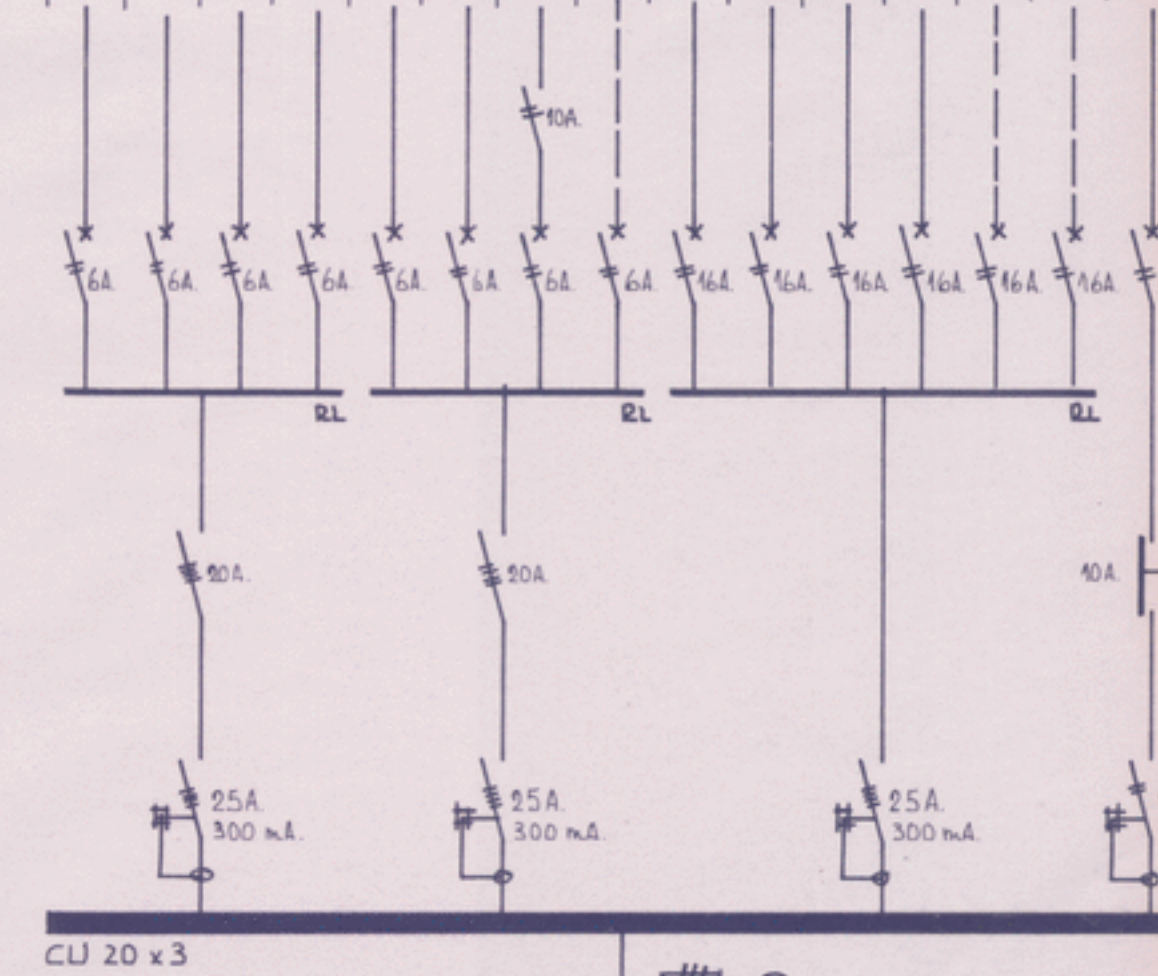
ILUMINAÇÃO EMERGÊNCIA E VIGIA	RESERVA	CORTE GERAL
V(3x0.5+T2.5) mm.2-VD16		
V(2x1.5) mm.2-VD12		
07	05	
7	COM.E3	8
T	R	S



V(3x4+4+T4) mm.2

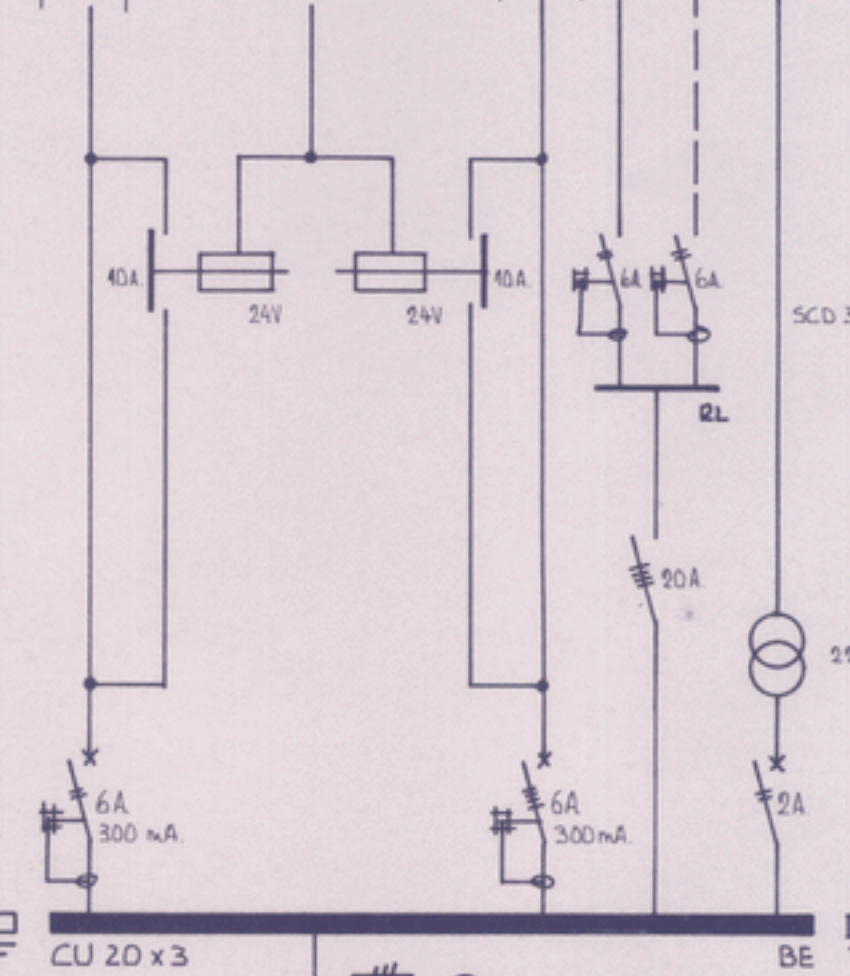
Q.E4

ILUMINAÇÃO NORMAL	TOMADAS USO GERAL	VE 2
V(2x1.5+T1.5) mm.2-VD16	V(2x0.5+T2.5) mm.2-VD20	V(2x0.5+T2.5) mm.2-VD20
4.6	14	03
1	11	13
R	S	T



V(3x4+4+T4) mm.2

ILUMINAÇÃO DE EMERGÊNCIA E VIGIA	CORTE GERAL
V(3x1.5+T1.5) mm.2-VD16	
V(2x1.5) mm.2-VD12	
V(3x1.5+T1.5) mm.2-VD16	
V(2x1.5+T1.5) mm.2-VD16	
08	10
7	COM.E4
R	S



V(3x4+4+T4) mm.2

AO SERVIÇO DE INCÊNDIO

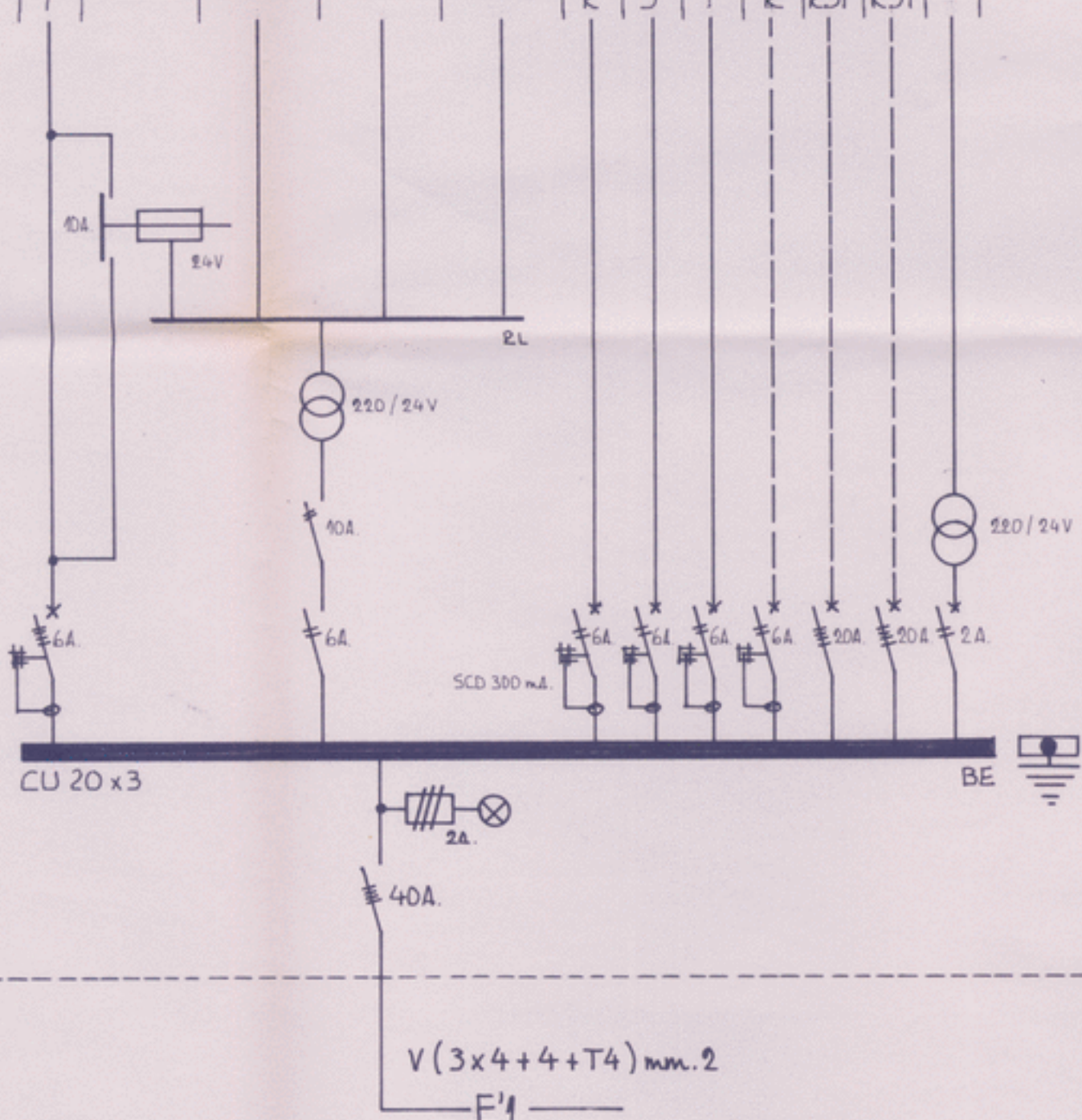
U. PORTO

arquivo central

1/2

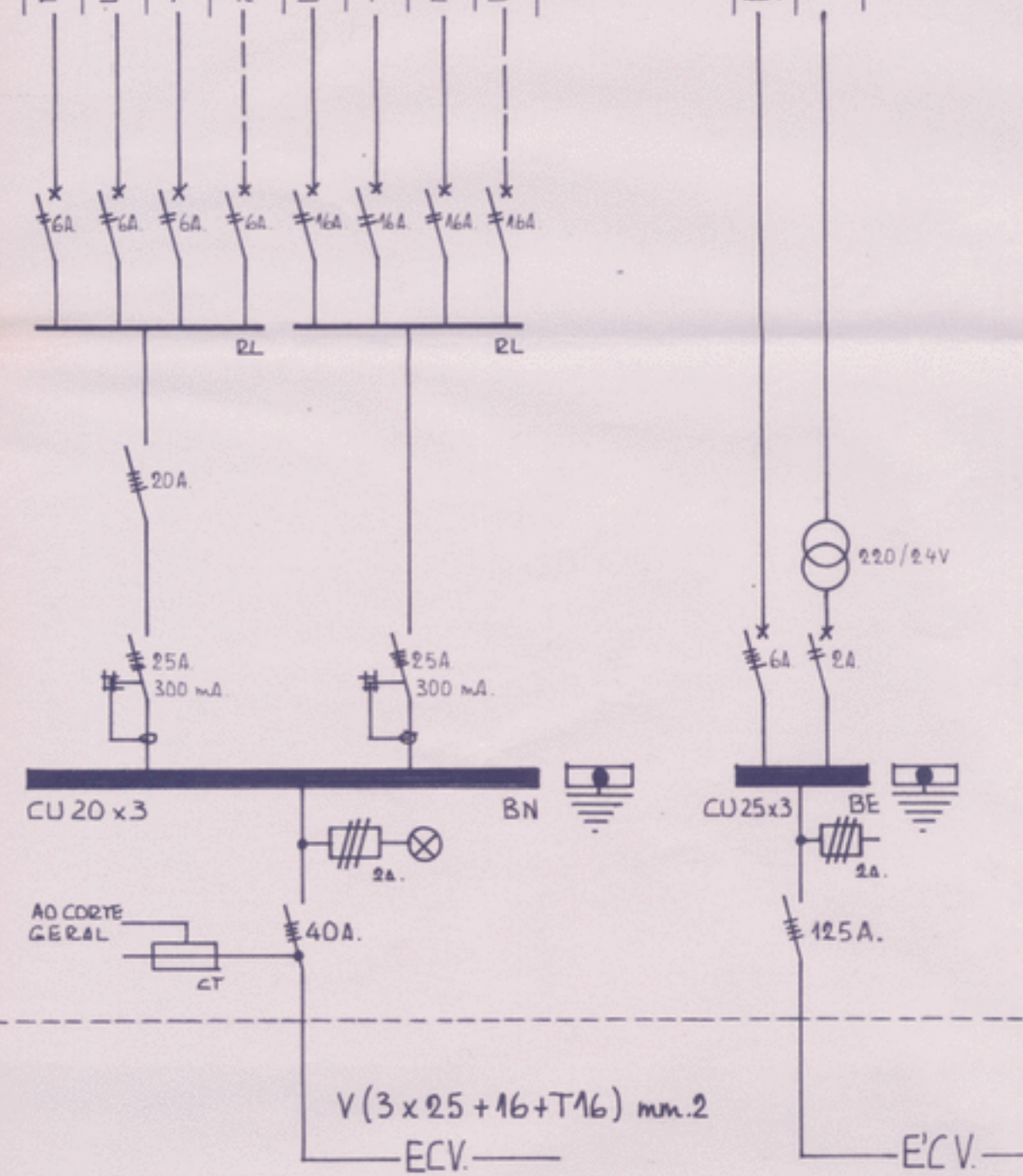


ILUMINAÇÃO EMERGÊNCIA E VIGIA				LETREIROS DE SAÍDA				RESERVA	RESERVA	RESERVA	
1º P	2º P	3º P	4º P	07	07	04					
V (2x1.5) num. 2 - VD12				V (2x1.5+T1.5) num. 2 - VD16							
10											
3	COM.E1	COM.E2	COM.E3	COM.E4	7	8	9	Y	Y	Y	
T					R	S	T	R	RST	RST	



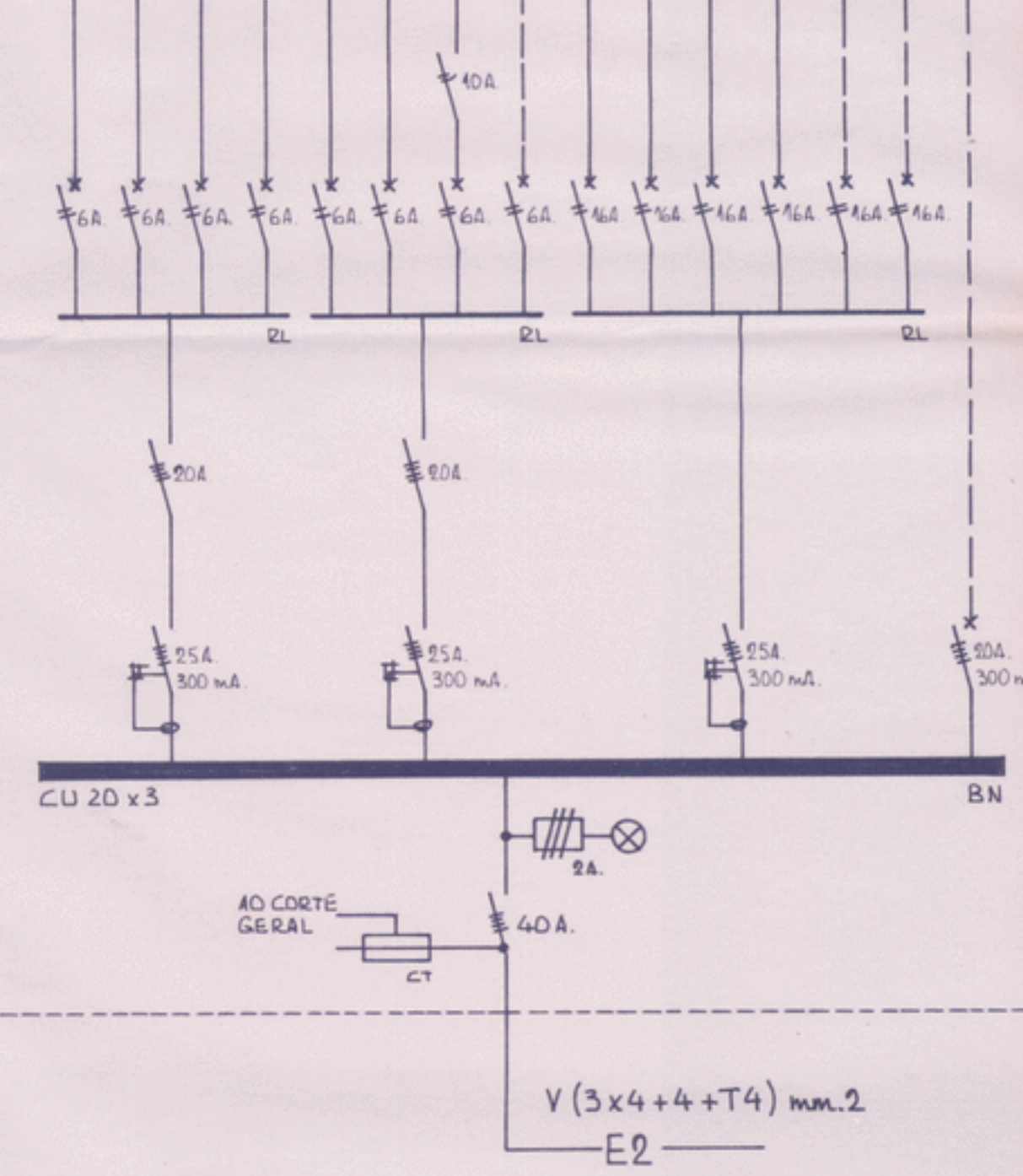
Q.E CV

ILUMIN. NORMAL			TOM. U. GERAIS			ELEV. E	CORTE GERAL
04	09	10	10	10			
V (2x1.5+T1.5) num. 2 - VD16			V (2x2.5+T2.5) num. 2 - VD20				
1	2	3	4	5	Y	Y	
R	S	T	R	S	T	R	S

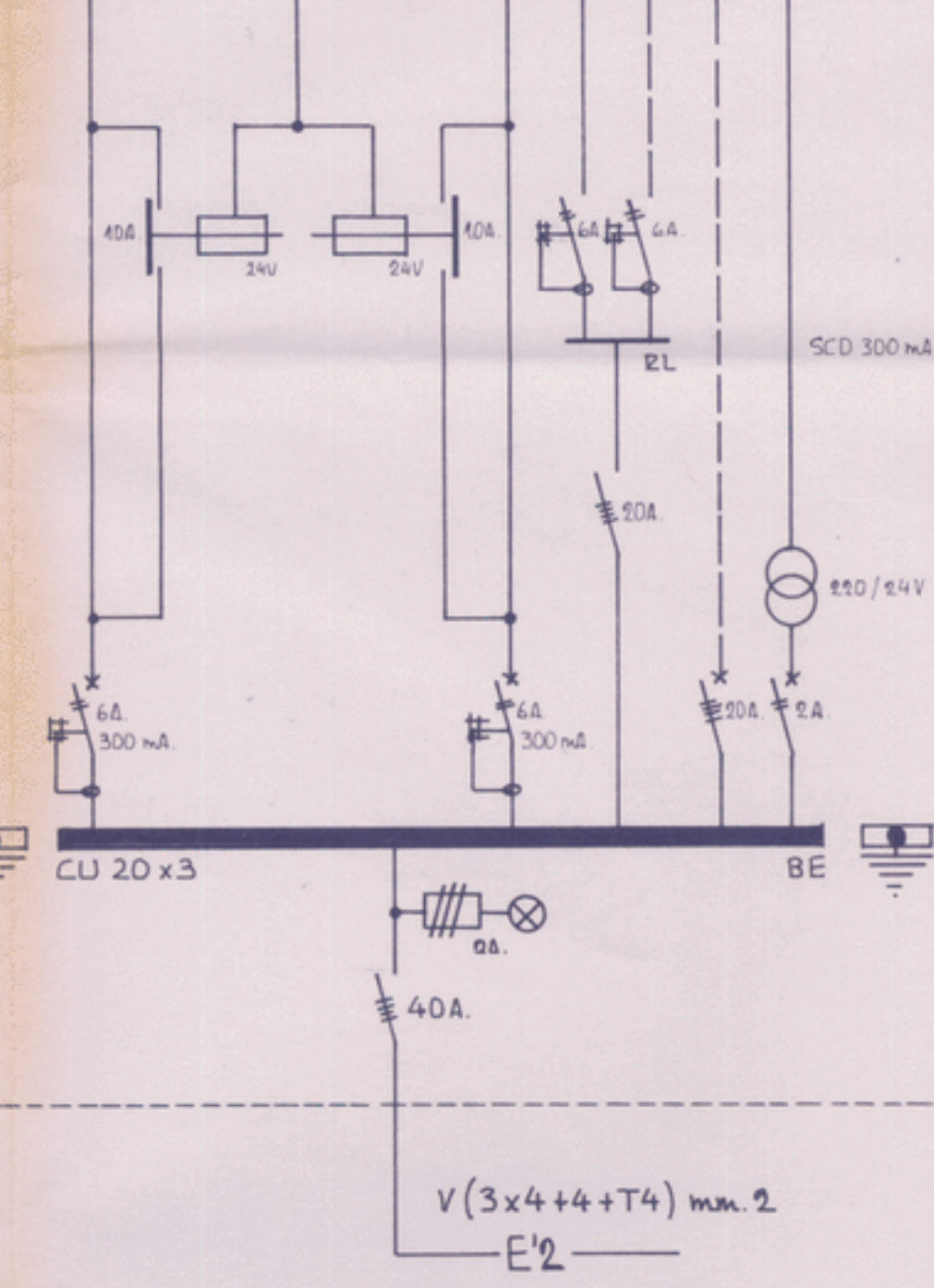


Q.E 2

ILUMINAÇÃO NORMAL						TOMADAS USOS GERAIS						RESERVA
1.6	2.0	1.9	1.9	1.3	1.3	0.5	1.4	1.5	1.5	1.8		
V (2x1.5+T1.5) num. 2 - VD16						V (2x2.5+T2.5) num. 2 - VD20						
1	2	3	4	5	6	10	Y	11	12	13	14	Y
R	S	T	R	S	T	R	S	T	R	S	T	R

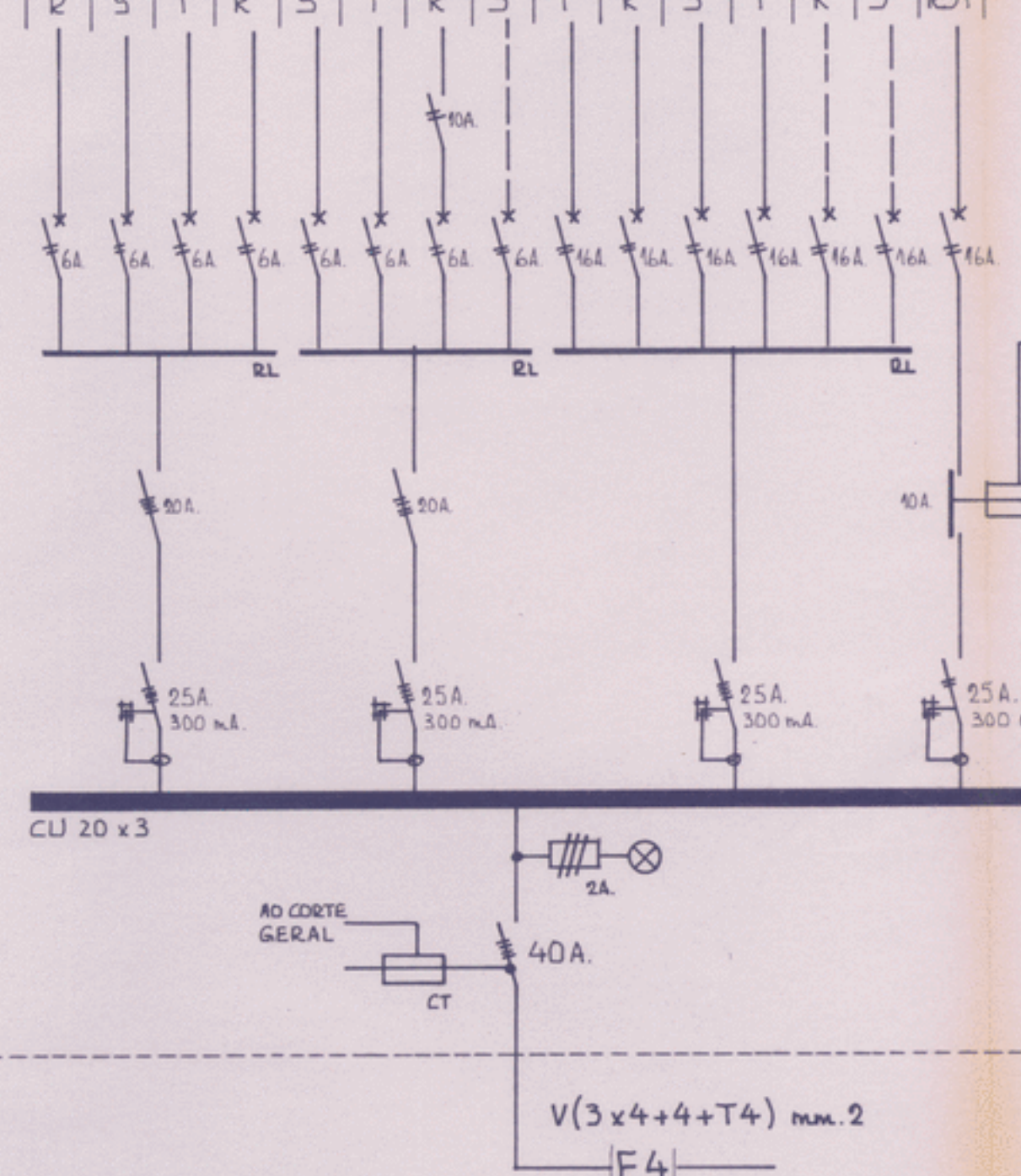


ILUMINAÇÃO EMERGÊNCIA E VIGIA				RESERVA	RESERVA	RESERVA
0.9		10	0.7			
V (3x1.5+T1.5) num. 2 - VD16						
V (2x1.5) num. 2 - VD12						
V (3x1.5+T1.5) num. 2 - VD16						
V (2x1.5+T1.5) num. 2 - VD16						
7	COM.E2			8	9	Y
T				R	S	T

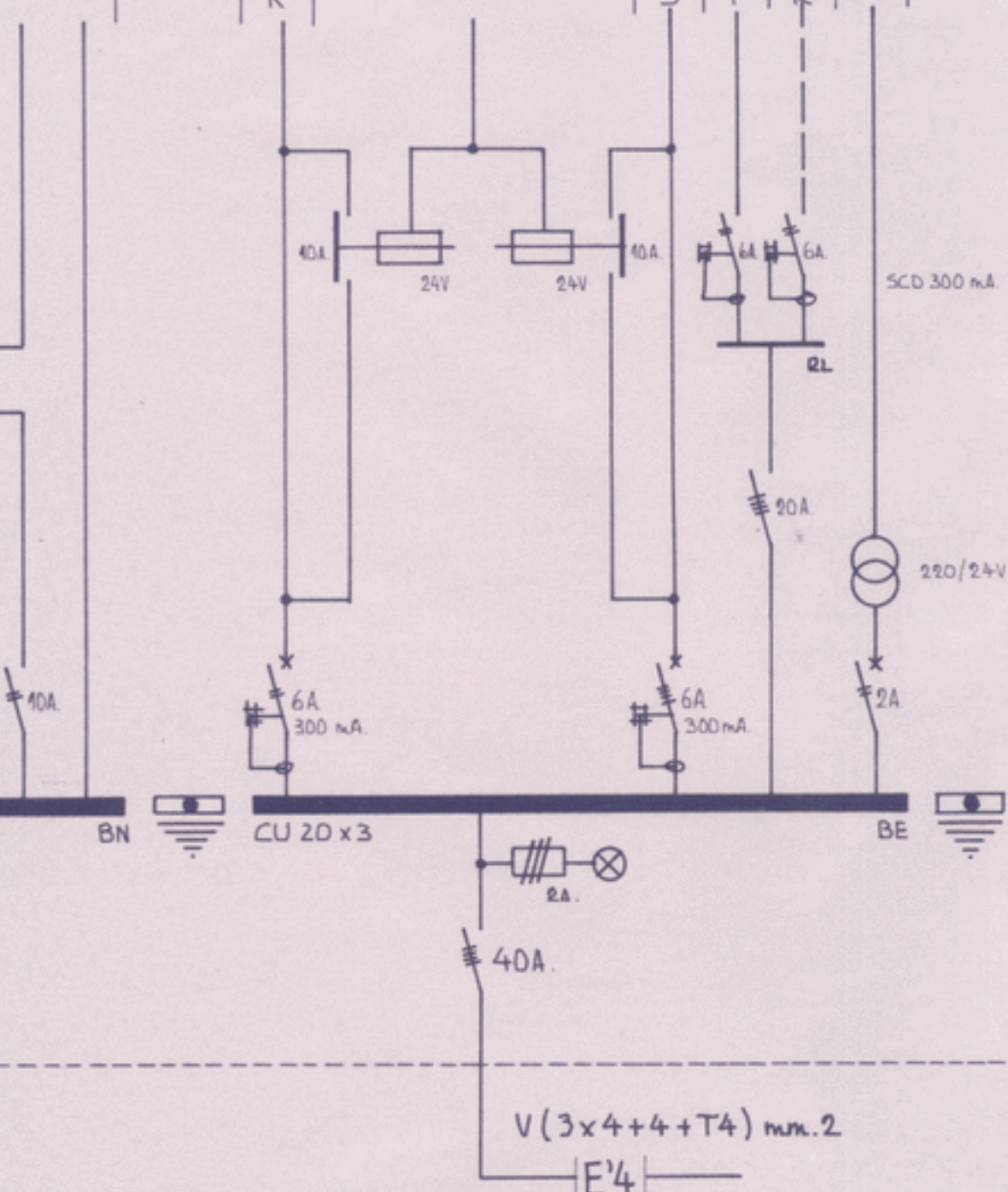


Q.E 4

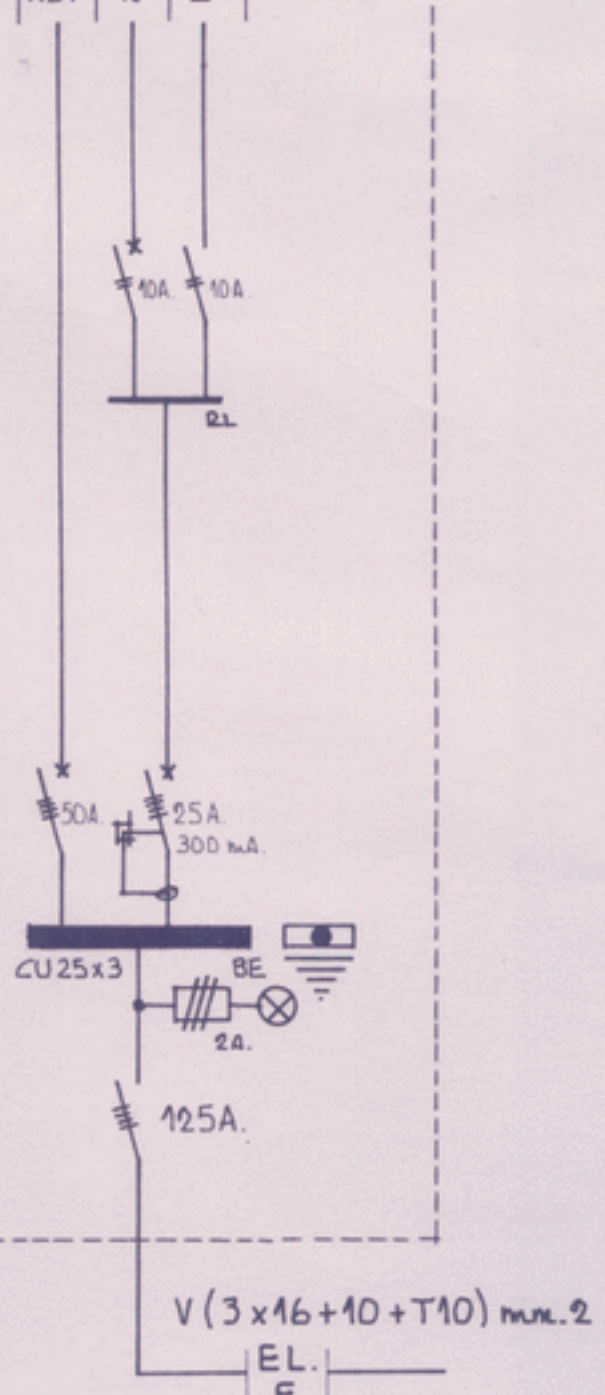
ILUMINAÇÃO NORMAL					TOMADAS USO GERAL					VE 2
1.6	1.9	1.9	1.3	0.5	1.4	1.4	1.5	1.4		0.3
V (2x1.5+T1.5) num. 2 - VD16					V (2x2.5+T2.5) num. 2 - VD20					V (2x2.5+T2.5) num. 2 - VD20
1	2	3	4	5	10	13	14	14	Y	15
R	S	T	R	S	T	R	S	T	R	S



ILUMINAÇÃO DE EMERGÊNCIA E VIGIA				CORTE GERAL
0.8		10	0.5	
V (3x1.5+T1.5) num. 2 - VD16				
V (2x1.5) num. 2 - VD12				
V (3x1.5+T1.5) num. 2 - VD16				
V (2x1.5+T1.5) num. 2 - VD16				
7	COM.E4			8
T				R



ELEV. E	RESERVA	RESERVA	RESERVA
10			
V (3x1.6+1.0+T1.0) num. 2 - VD10			
FW (2x2.5+T2.5) num. 2			
TOMADAS USOS GERAIS			
V (2x2.5+T2.5) num. 2 - VD20			
RST	R	S	



U. PORTO

arquivo central

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FACULDADE DE ARQUITECTURA DO PORTO

Projeto: _____
Des.: _____
Cap.: _____
Verific.: _____
Escalas: _____

PROJECTO
electrotécnico

GOP
ING.º J. DE ARAÚJO TORRES

QUADROS ELÉCTRICOS
Q.E, O.E1, O.ECV, O.E2,
O.E3, O.E4, O.ELEV. E.

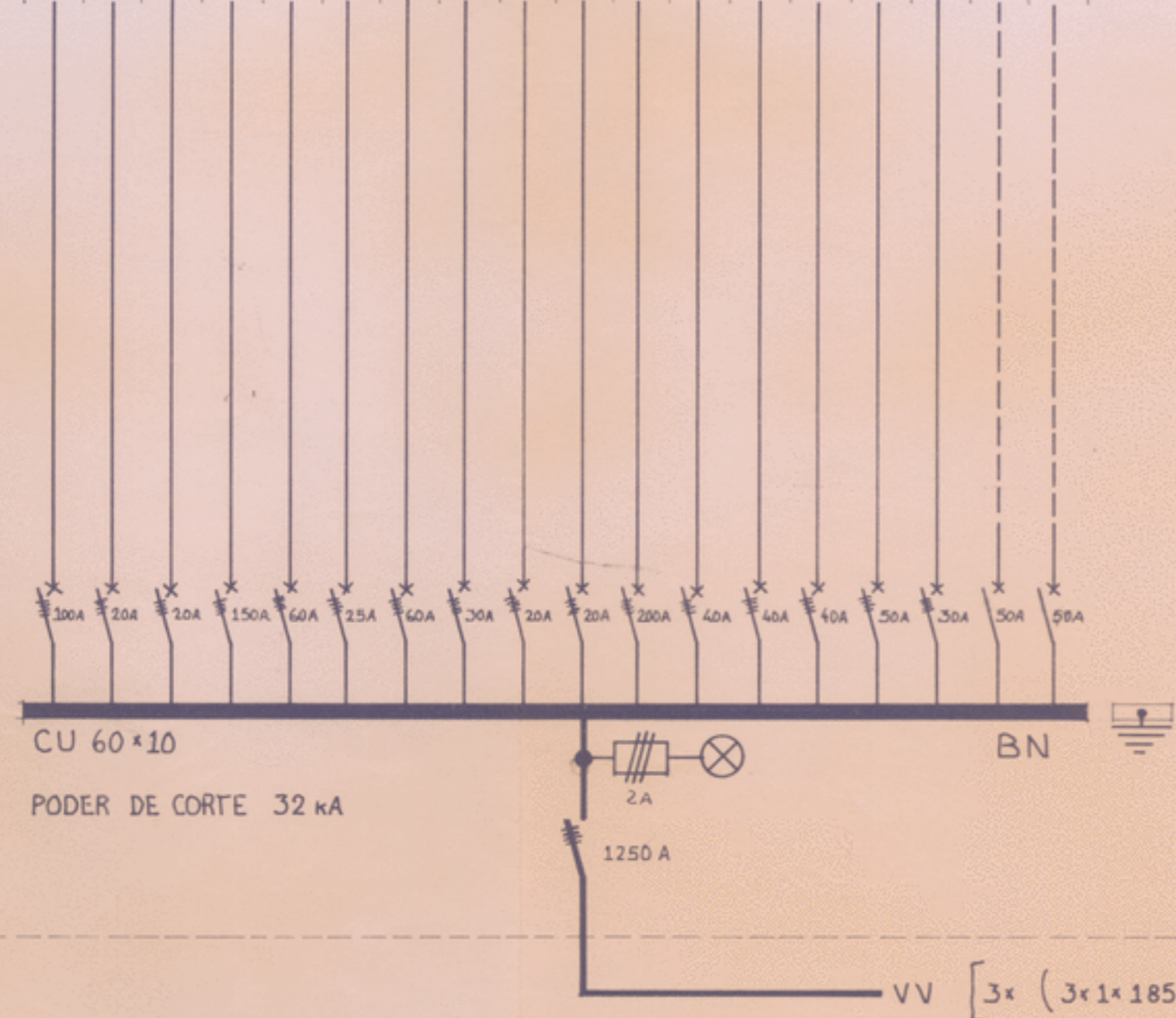
81/1218 a

Bolonha: 81/1218
Tecnologia: _____



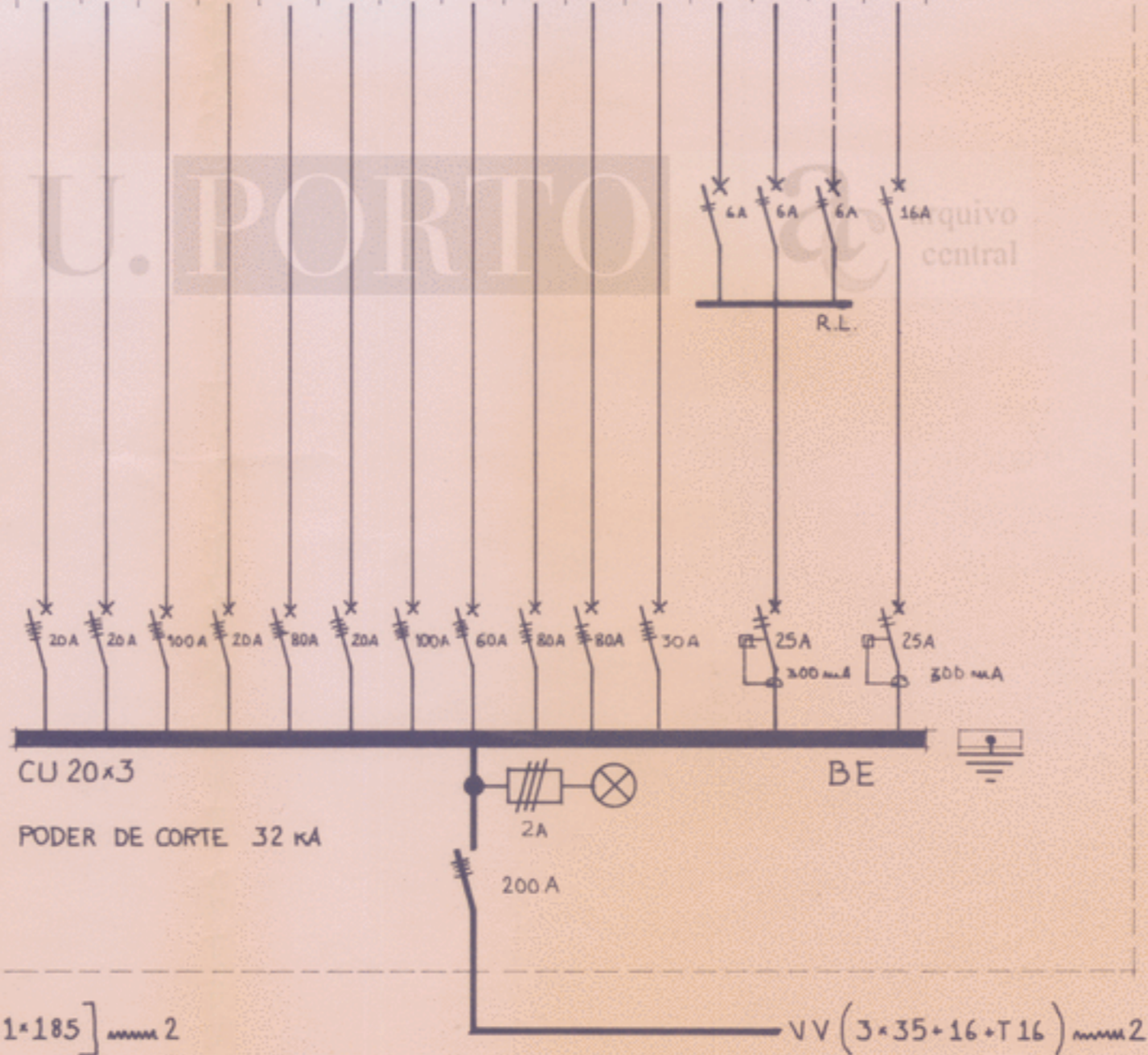
Q.B.T. (QUADRO GERAL)

Q.T.C.	Q.A1	Q.GAL.	Q.EAC4	Q.B1	Q.C2	Q.EAC2	Q.D1	Q.EAC3	Q.D'4	Q.EAC1	Q.E1	Q.F1	Q.G1	Q.H1	Q.OF.	RESERVAS
VV (3x3.5+16+T16) mm ²	VV (3x16+10+T10) mm ²	VV (3x10+10+T10) mm ²	VV (3x50+25+T25) mm ²	VV (3x95+50+T50) mm ²	VV (3x16+10+T10) mm ²	VV (3x16+10+T10) mm ²	VV (3x16+10+T10) mm ²	VV (3x6+6+T6) mm ²	VV (3x4+4+T4) mm ²	VV (3x95+50+T50) mm ²	VV (3x35+16+T16) mm ²	VV (3x35+6+T6) mm ²	VV (3x25+16+T16) mm ²	VV (3x16+10+T10) mm ²	VV (3x4+4+T4) mm ²	ALIMENTAÇÃO PAVILHÃO ARGUT.
90	15	9	128	120	22	53	29	11	2	180	36	36	38	42	30	50
-	A1	M1	L1	B1	C2	J1	D1	K5	D'4	I4	E1	F1	G1	H1	8	γ
RST	RST	RST	RST	RST	RST	RST	RST	RST	RST	RST	RST	RST	RST	RST	RST	RST



DO POSTO TRANSF. (P.T.)

Q.A1	Q.GAL.	Q.B1	Q.C2	Q.D1	Q.D4	Q.E1	Q.F1	Q.G1	Q.H1	Q.OF.	ILUM. DO PT.	ILUM. DO PT. G. E. M.
VV (3x4+4+T4) mm ²	VV (3x4+4+T4) mm ²	VV (3x35+16+T16) mm ²	VV (3x4+4+T4) mm ²	VV (3x25+6+T16) mm ²	VV (3x4+4+T4) mm ²	VV (3x50+25+T25) mm ²	VV (3x50+25+T25) mm ²	VV (3x35+16+T16) mm ²	VV (3x16+10+T10) mm ²	VV (3x4+4+T4) mm ²	V (2x1.5+T1.5) mm ² VD20	V (2x2.5+T2.5) mm ² VD20
2.5	2.0	6.3	2.0	6.3	2.0	6.3	6.3	6.3	6.3	3.0	1.0	1.6
A'1	M'1	B'1	C'2	D'1	D'4	E'1	F'1	G'1	H'1	8'	1	2
RST	RST	RST	RST	RST	RST	RST	RST	RST	RST	RST	R	S



DO QUADRO TRANSF. CARGAS (Q.T.C.)

- NOTAS:
- LIGAÇÕES INTERNAS MÍNIMAS: NU. 6 mm², V. 4 mm²
 - RL (RÉGUA DE LIGADORES): 6 mm²

AC-1923-P 47

FACULDADE DE ARQUITECTURA DO PORTO	
Projec. <i>[assinatura]</i>	PROJECTO electricidade
Des. 8/85 <i>[assinatura]</i>	
Verific. <i>[assinatura]</i>	
Escalas	81/1242
QUADRO GERAL (Q.B.T. DO P.T.)	
Substituído por:	

6° PISO

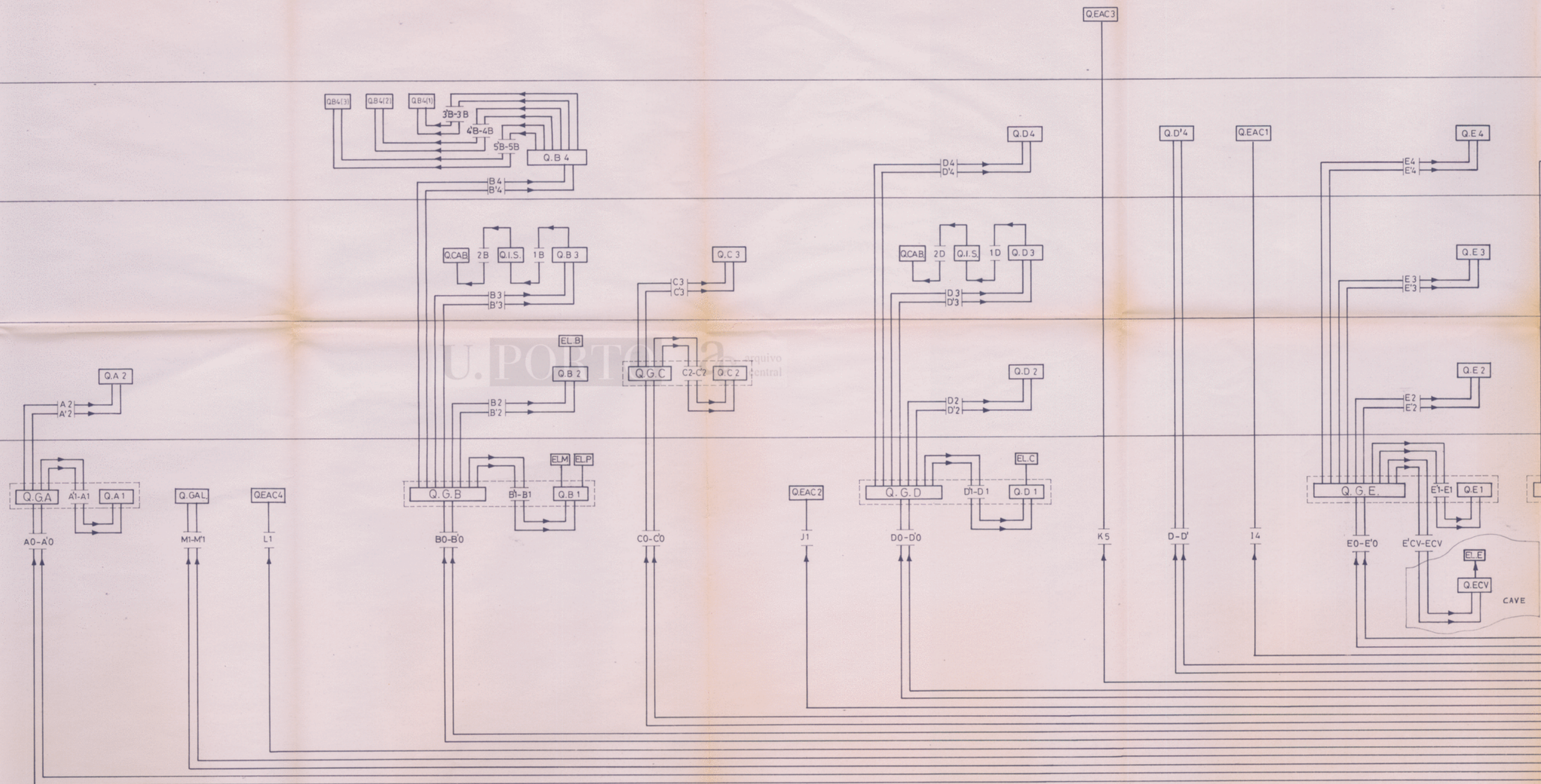
5° PISO

4° PISO

3° PISO

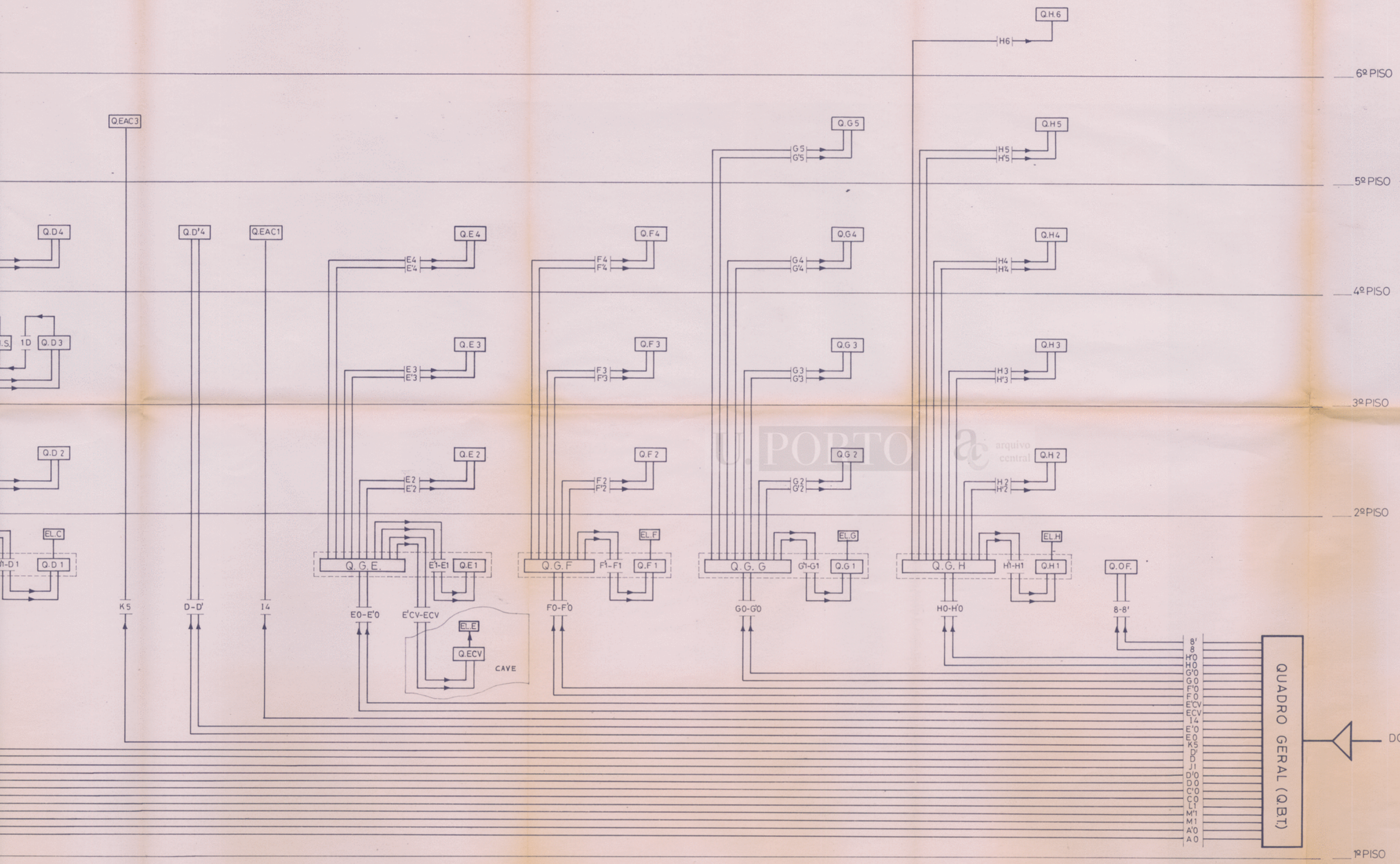
2° PISO

1° PISO



1/2
→



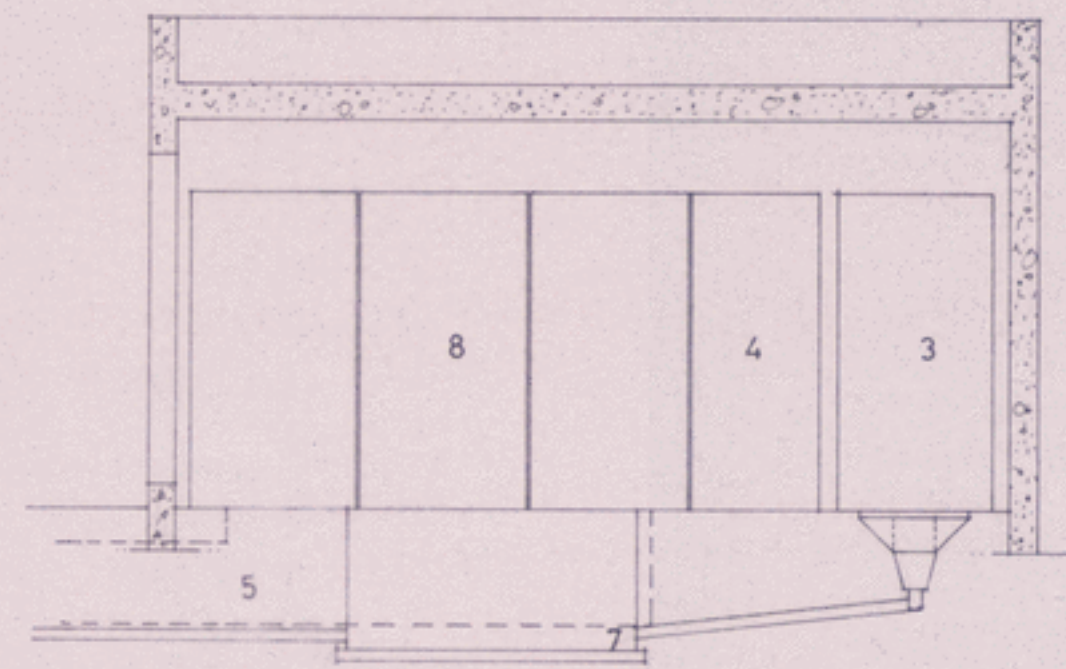
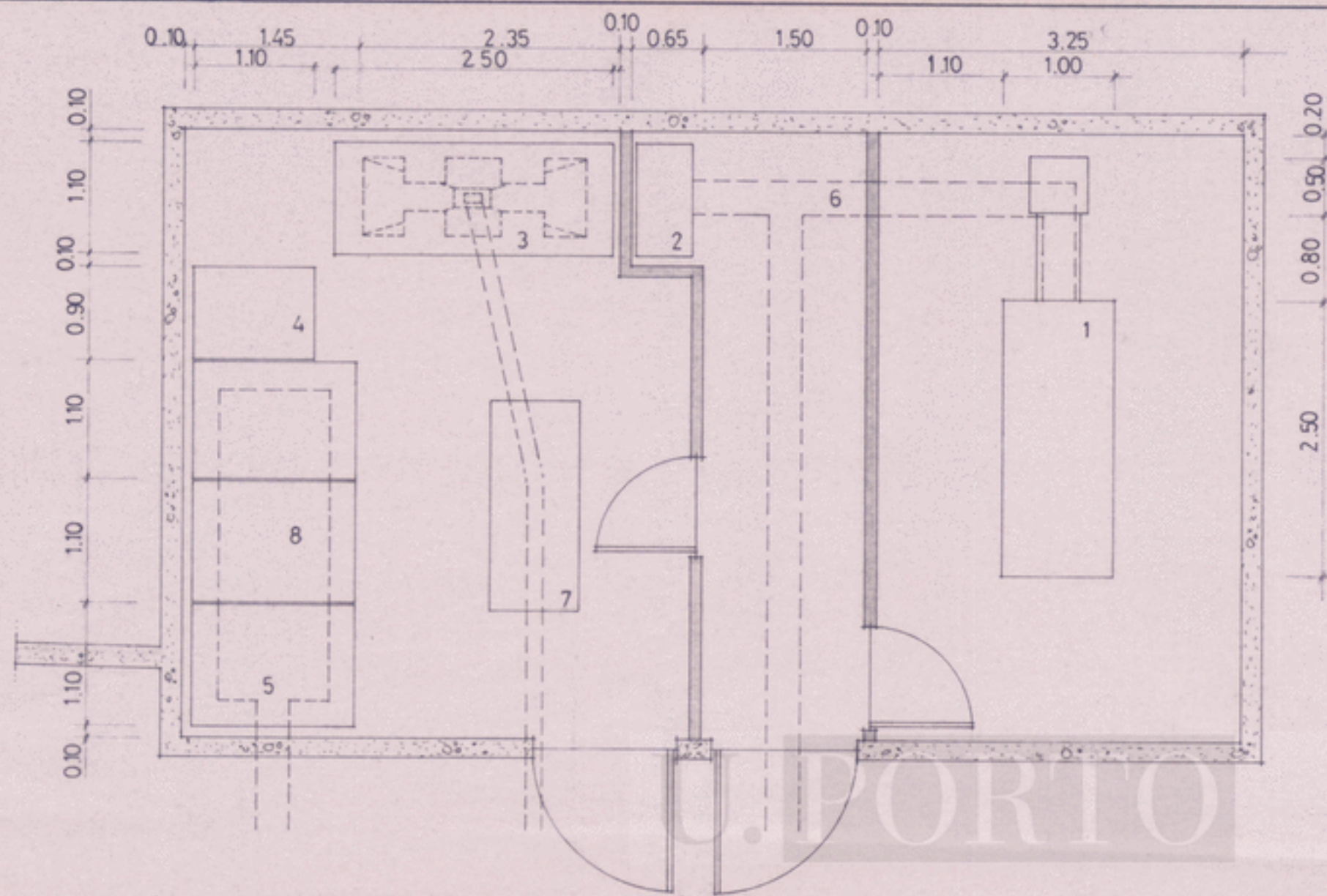


AC-1923-9 48

FACULDADE DE ARQUITECTURA DO PORTO

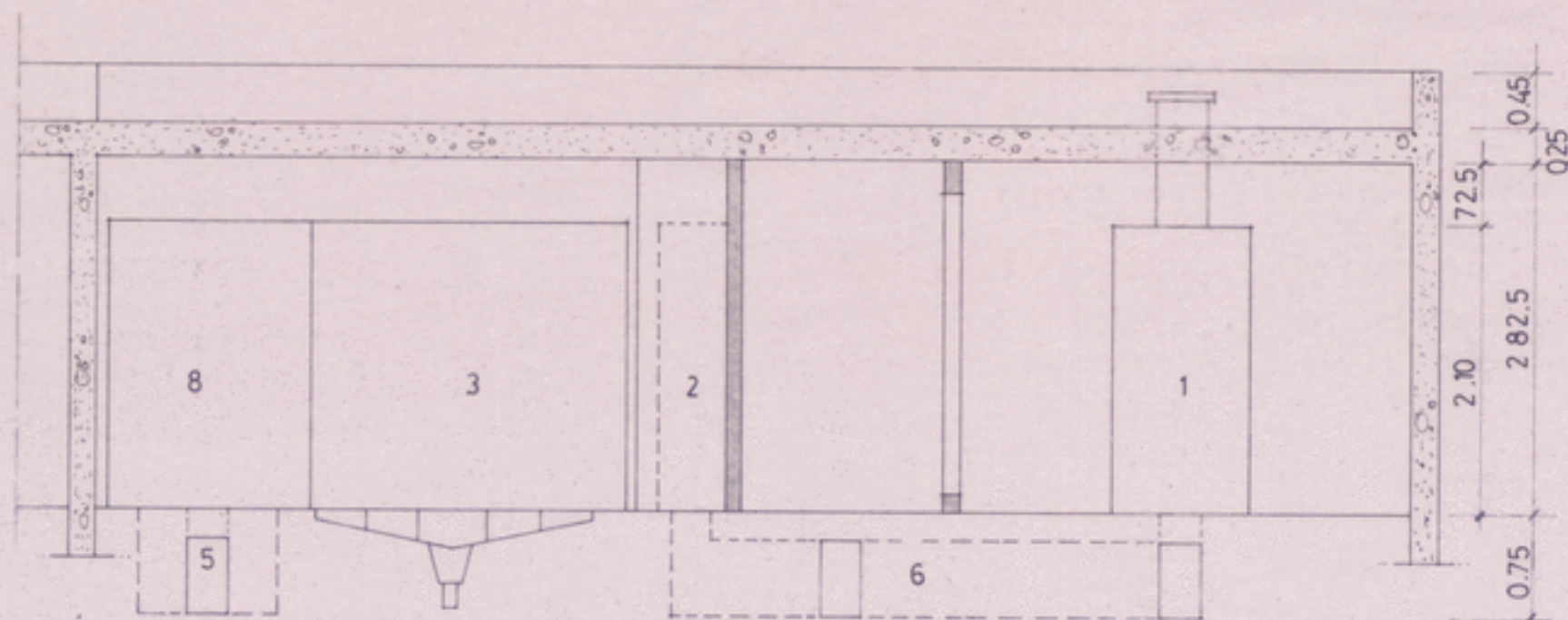
Projeto:	41/88	Zona:	PROJECTO	GOP
Escala:			electricidade	EN.º J. DE ARAÚJO SOBRINHA
ESQUEMA DA INTERLIGAÇÃO DOS QUADROS ELÉCTRICOS.				81/1240a
				11/87
				Substituído por: 81/1240
				Substituído por:





LEGENDA

- 1 - Gerador
- 2 - Q.B. Tensão
- 3 - Transformador
- 4 - Disjuntor de Protecção do Transformador
- 5 - Vaia para Entrada de Cabos de A.T.
- 6 - Vaia para Ligação de Cabo entre o Gerador e o Q.B.T.
- 7 - Fossa para Óleo Queimado
- 8 - P.R.

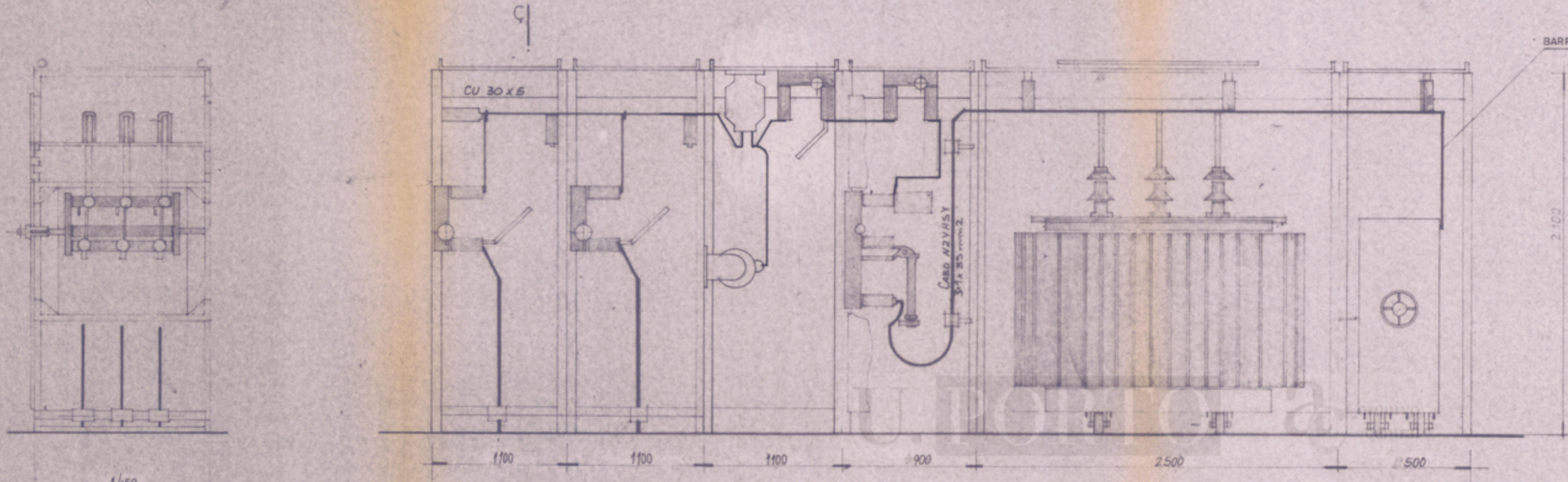


AC-1923-10

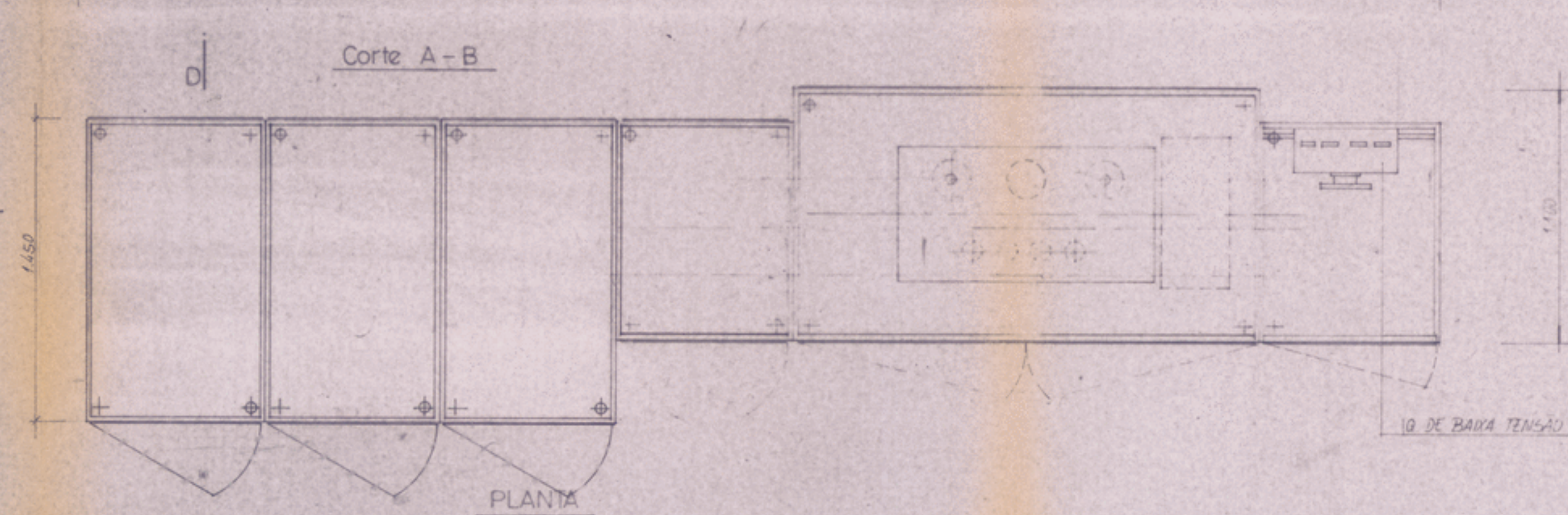
49

FACULDADE DE ARQUITECTURA

Projec.		PROJECTO	electricidade	GOP ENQ. DE ARQUIV. SCRIVA
Des.	<i>P. Gomes</i>			
Cop.				
Verific.	<i>P. Gomes</i>			
Escala	P.T. NORMABLOCO P.R. GERADOR IMPLANTAÇÃO	81/1205		
1/50		Substituído por:		



Corte C-D

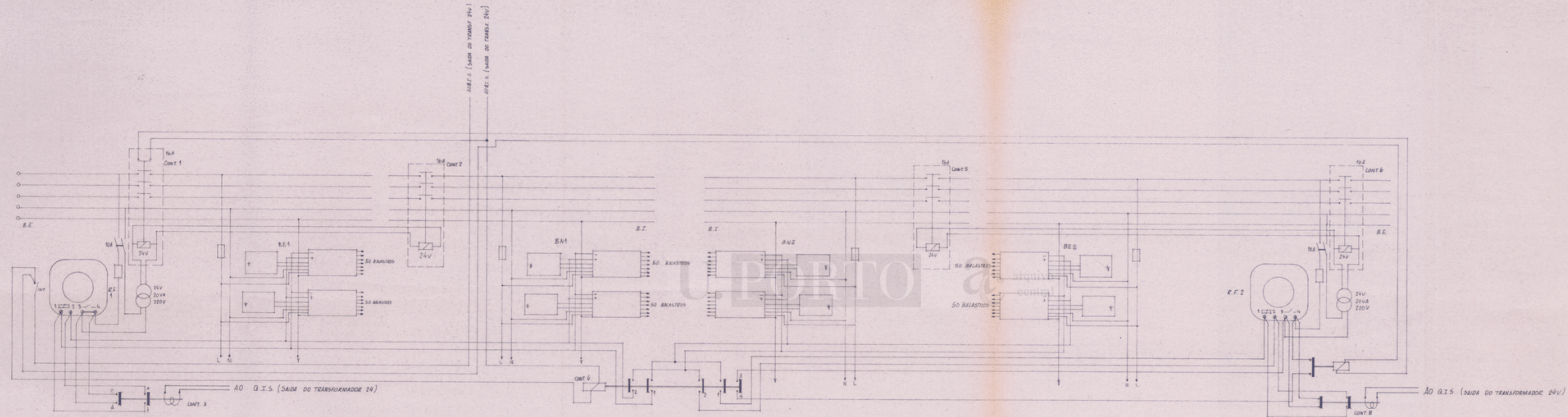


Corte A-B

PLANTA

AC-1923-11 50

FACULDADE DE ARQUITECTURA		PROJECTO	GOP <small>ENGR. J. DE ABAGIO SOBRINHO</small>
Projet.	<i>Luiz</i>		
Des.	<i>R. V. Gomes</i>	81/1206	
Cap.			
Verific.	<i>P. Fernandes</i>		
Escala		ELECTRICIDADE	
1:20		POSTO DE TRANSFORMAÇÃO MONOBLOCO PARA INTERIORE	
Substituído por:			



AC-1923-12

51

FACULDADE DE ARQUITECTURA DO PORTO

Projec. *[Handwritten]*
 Des. *[Handwritten]*
 Cap. *[Handwritten]*
 Verific. *[Handwritten]*

PROJECTO
 electricidade

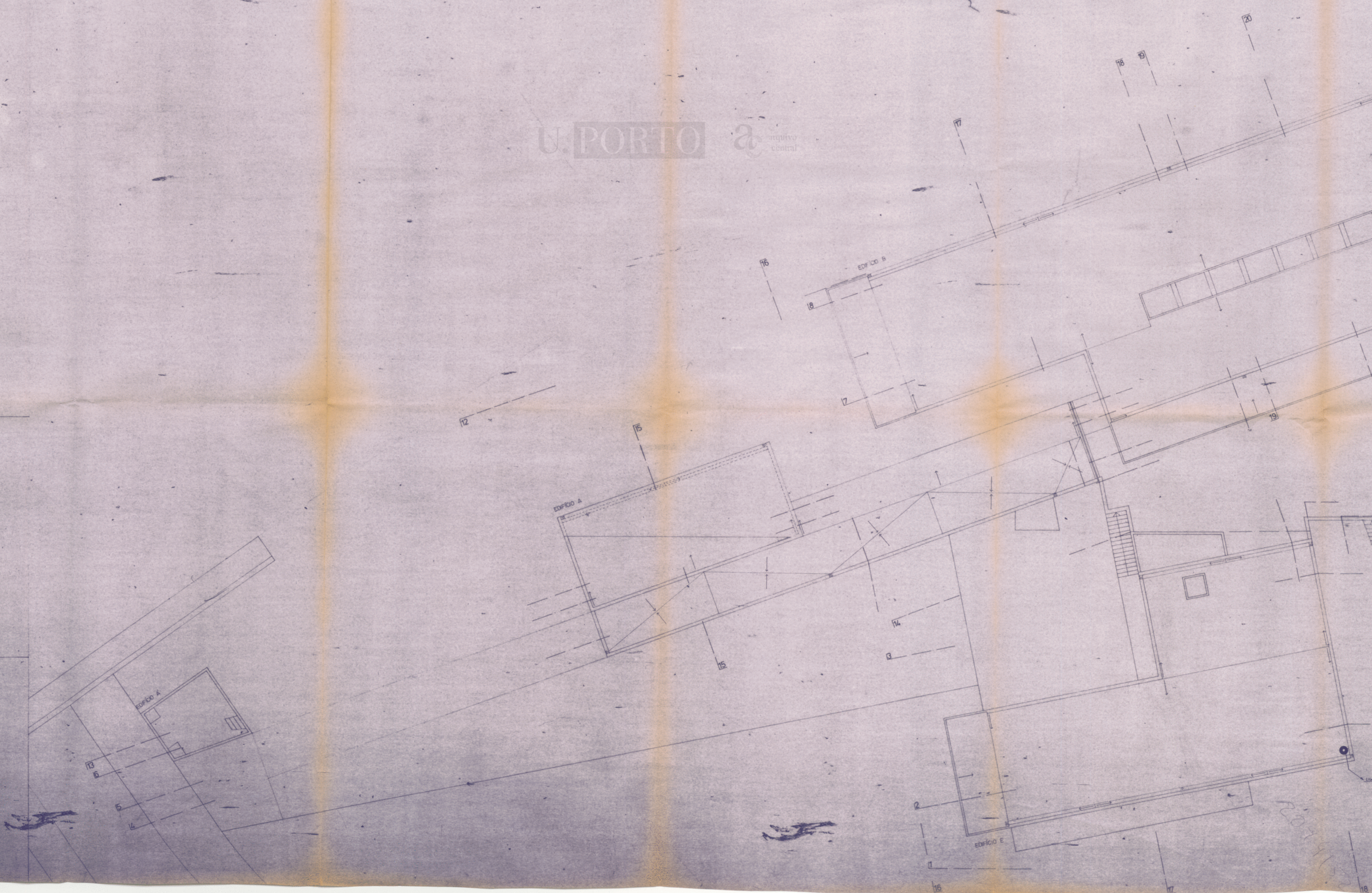
GOP
 ENGR. DE ARAUJO SOBRINHO

Escolas
 INTERLIGAÇÃO DOS REG. DE FLUXO
 AUDITÓRIO - EDIFÍCIO B

81/1219

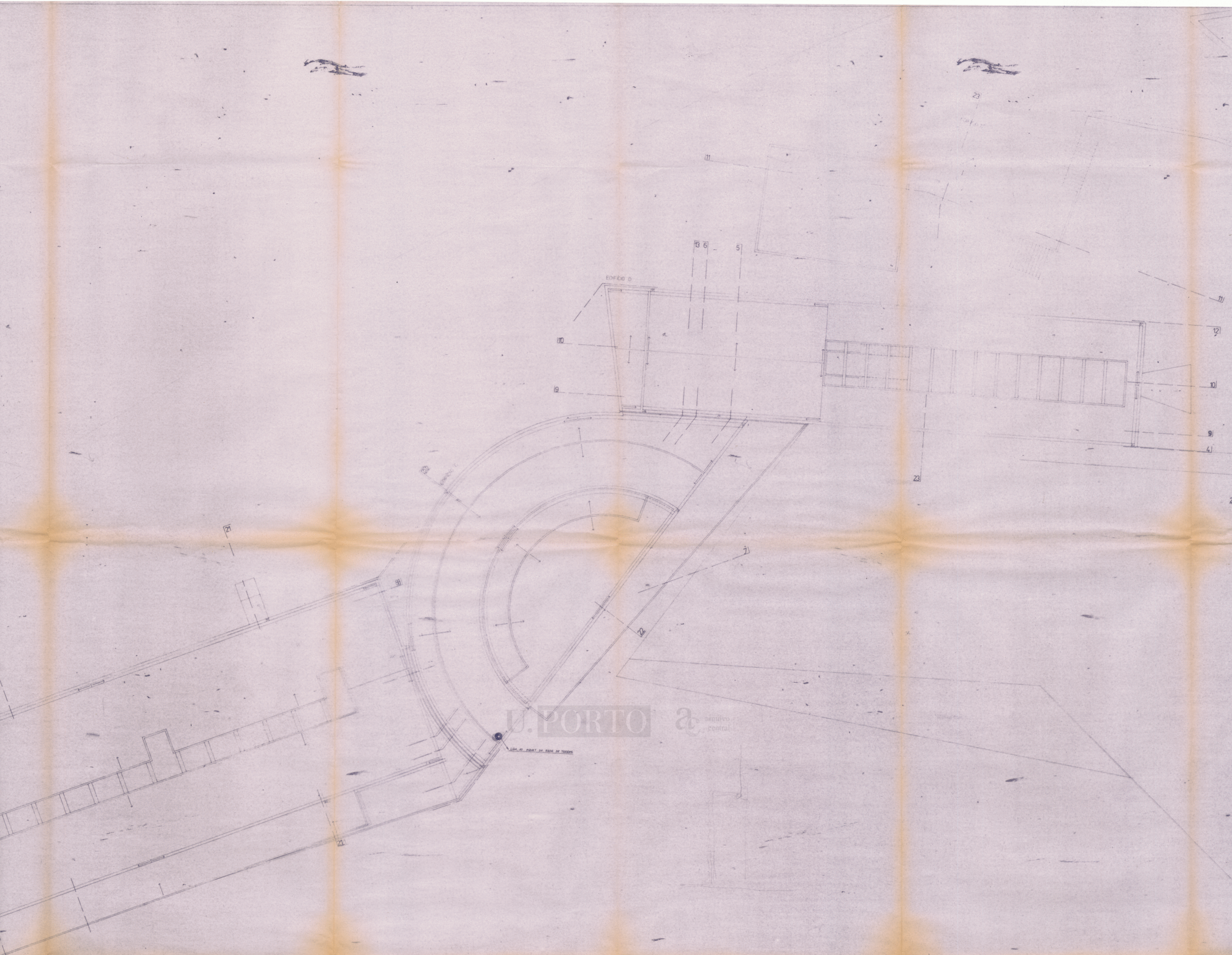
Substituído por:

U. PORTO  university
central

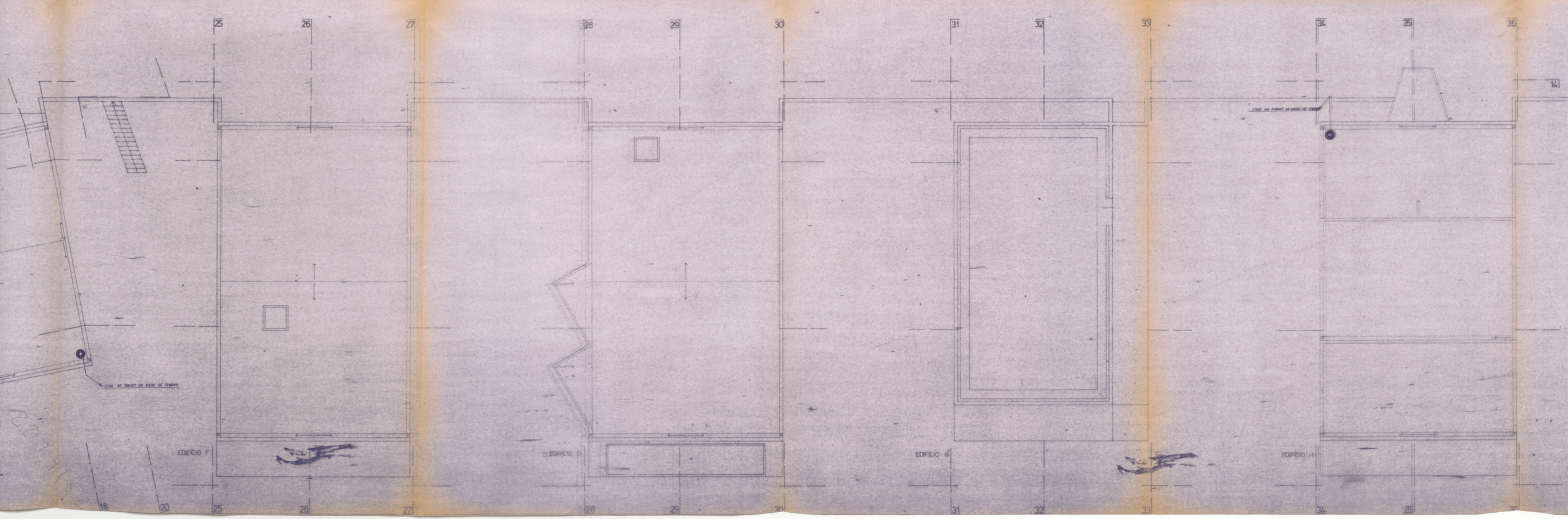


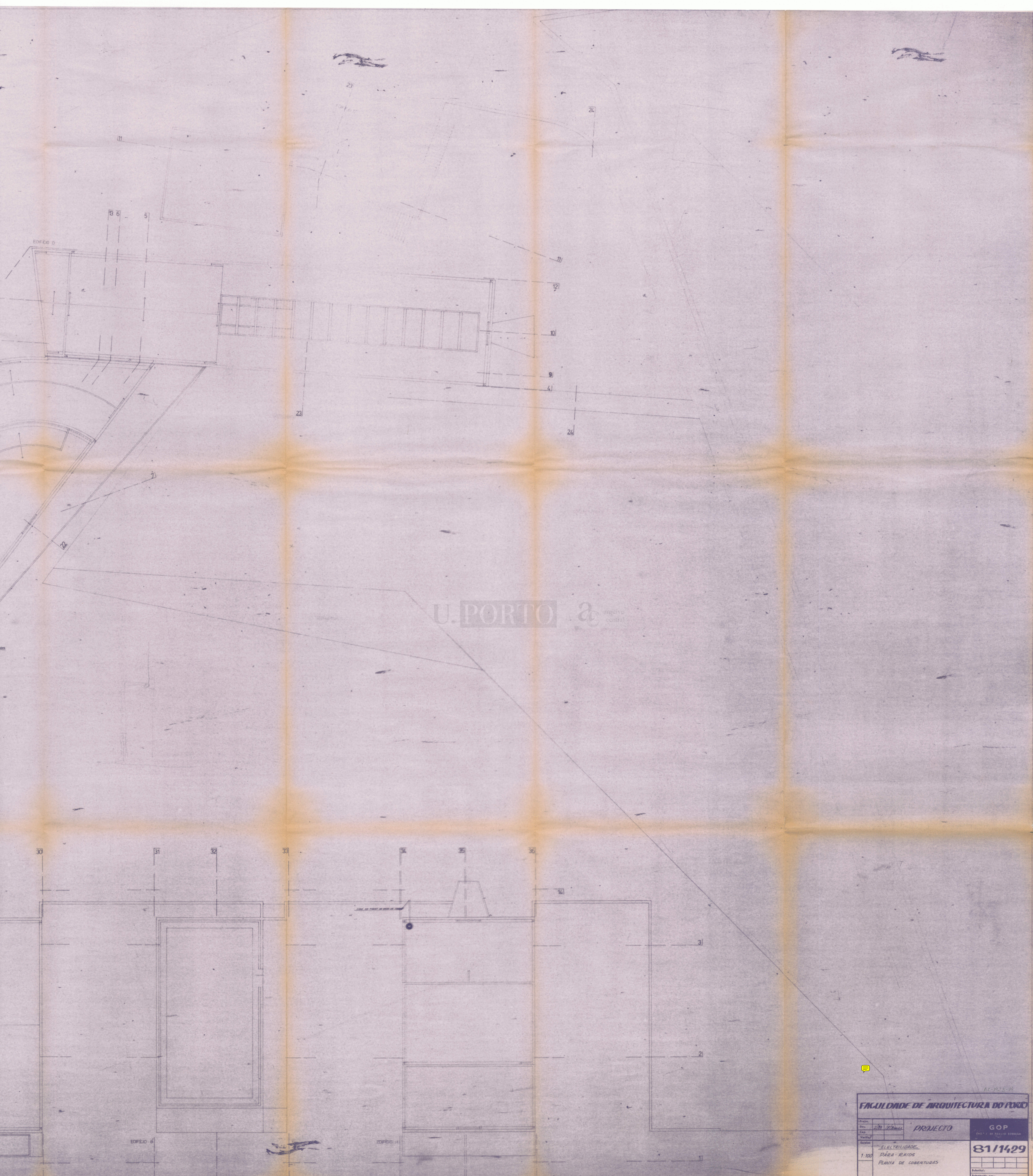
1/3
→





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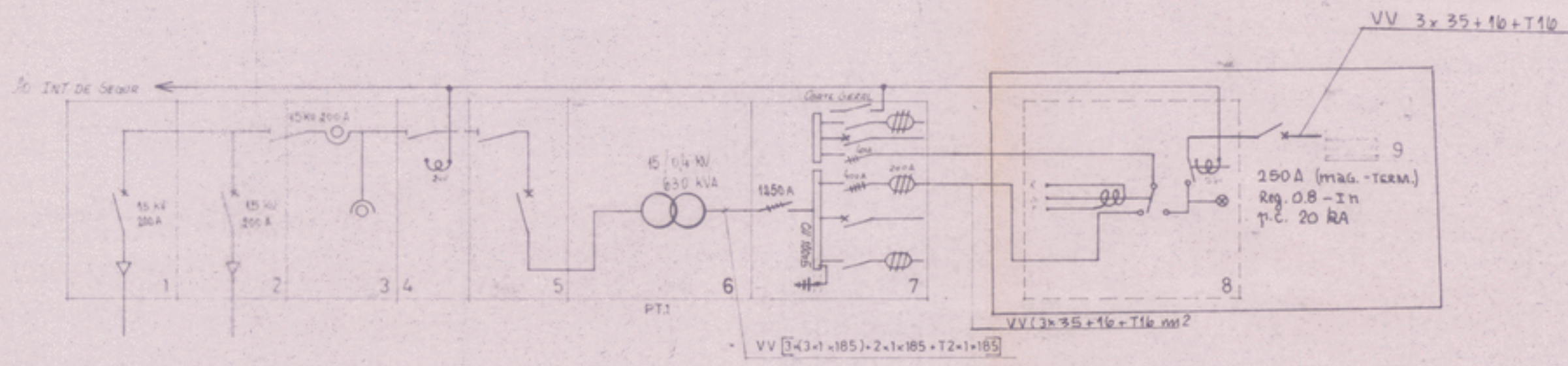




U. PORTO 

FACULDADE DE ARQUITECTURA DO PORTO		AC-P23-M	
Prato:	2.º	PROJETO	GOP
Disciplina:	Edifícios		INSTITUTO DE ENGENHARIA DE ENFERMAGEM
Curso:			
Matrícula:			
Escala:	1:100	ELECTRICIDADE PARA RAIOS PLANTA DE COBERTURAS	81/1429
Assinado:			
Subscrito por:			





U. PORTO

LEGENDA

- 1 — Entrada (anel) - SMGE/EDP
- 2 — Contagem
- 3 — Corte geral
- 4 — Protecção (transf.)
- 5 — Transform.
- 6 — Q. B. T.
- 7 — Q. Transf. de cargas
- 8 — Gerador



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FACULDADE DE ARQUITECTURA DO PORTO			
Projec.	<i>[Signature]</i>	PROJECTO electricidade	GOP ENG.º DE ARQUIVO SOBREIRA
Des.	<i>[Signature]</i>		
Cap.	<i>[Signature]</i>		
Verific.	<i>[Signature]</i>		
Escalas	INTERL. DE ALIMENT. NORMAL E EMERG		81/1220
	P. T.		
	Substituído por:		