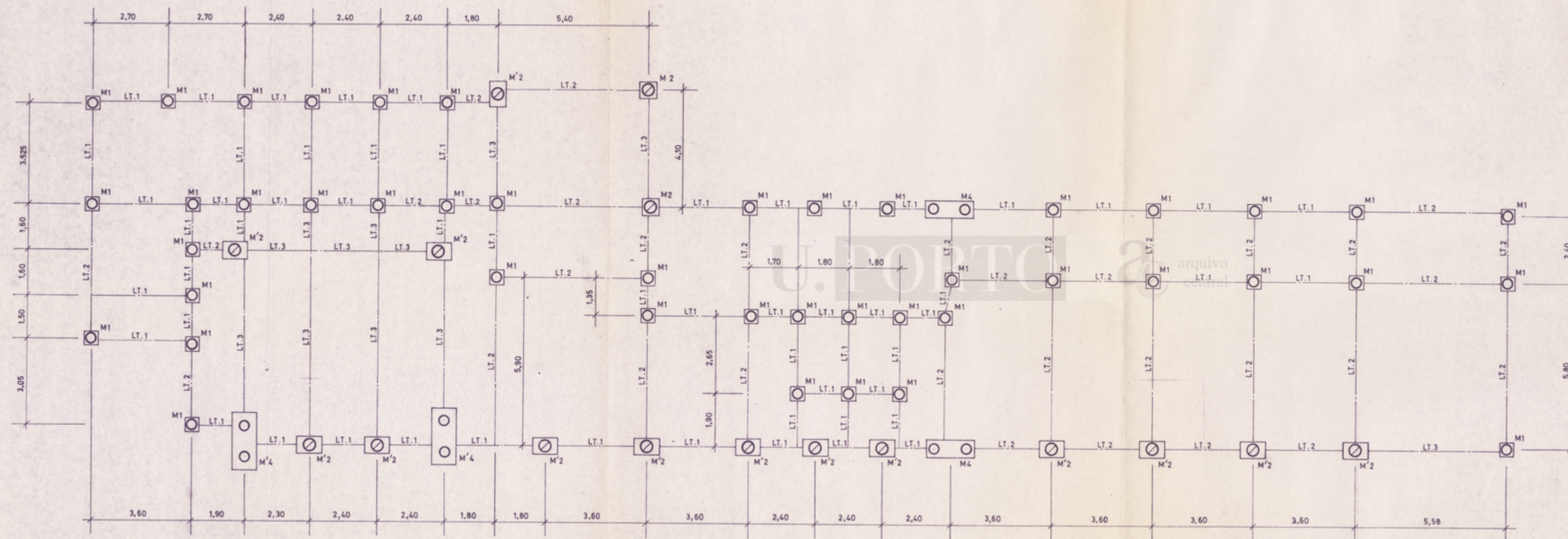




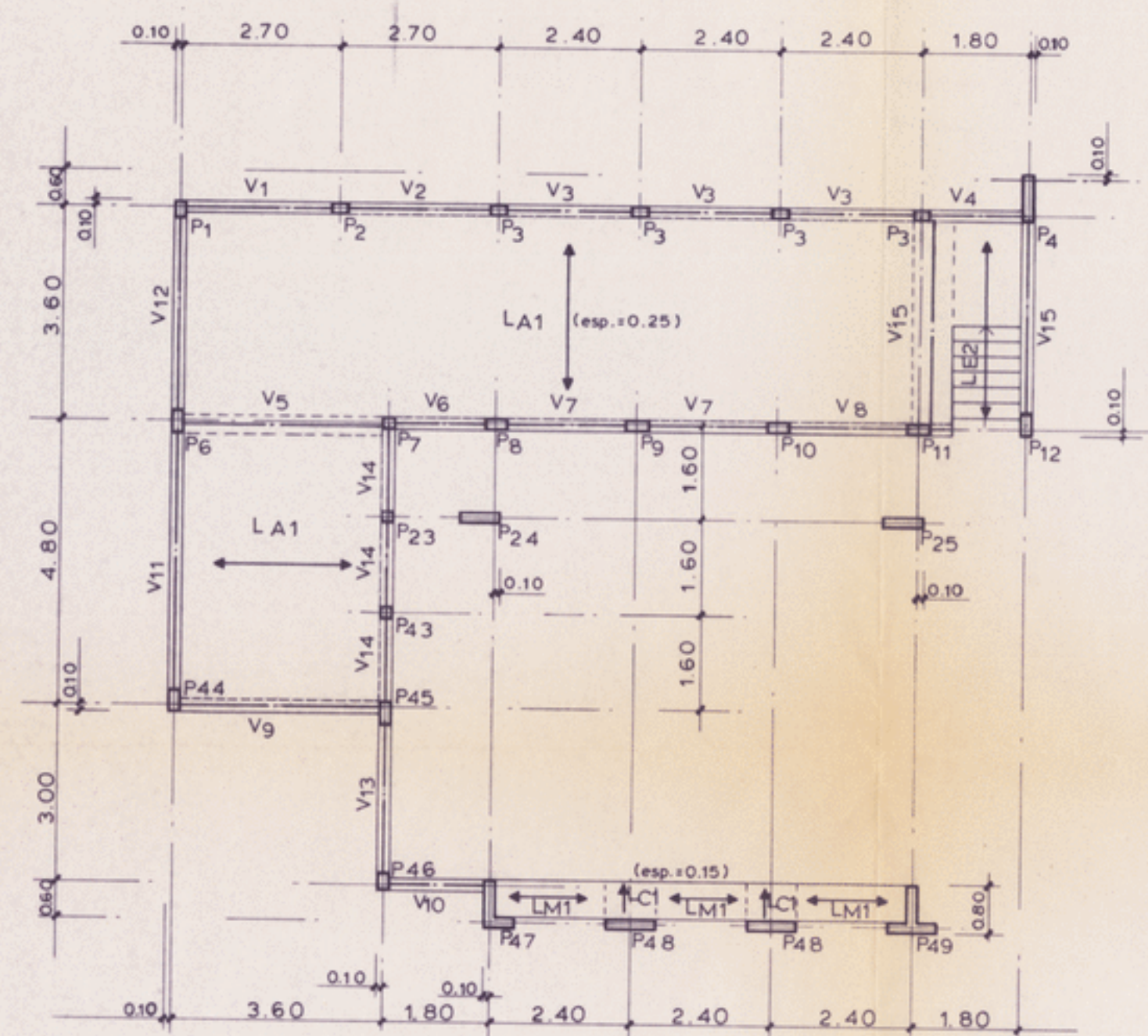
○ . . . Estacas ϕ 350 mm. com 5 ϕ 12 — 52 unidades

⊗ . . . Estacas ϕ 450 mm. com 5 ϕ 12 — 16 unidades

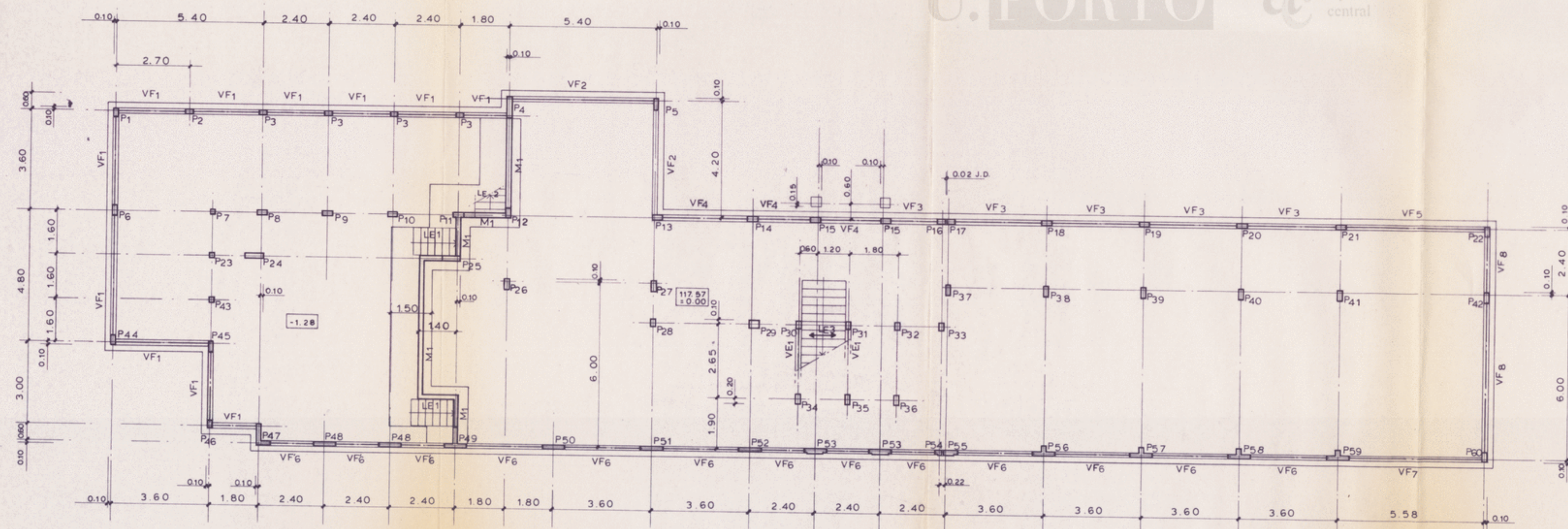
— . . . Lintel de fundação

AC-2145-1

UNIVERSIDADE DO PORTO		RODIO	
BIC - Centro de Inovação do Porto		SONDAGENS RODIO, LDA.	
FUNDAÇÕES POR ESTACAS		Projectado:	Conferido:
PLANTA — Corpo C		Desenhado:	
ESCALAS:	ALTERAÇÕES:	DATA:	DESENHO N.º:
1:100		Julho / 1989	17.185

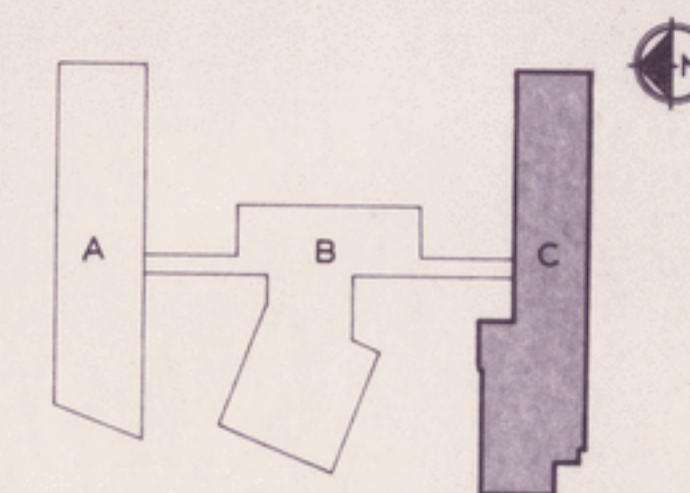


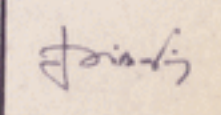
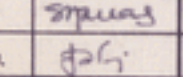
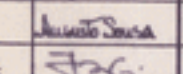
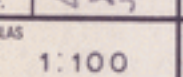
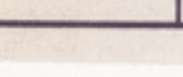
PLANTA DO ENTREPISO (À COTA +1.28)

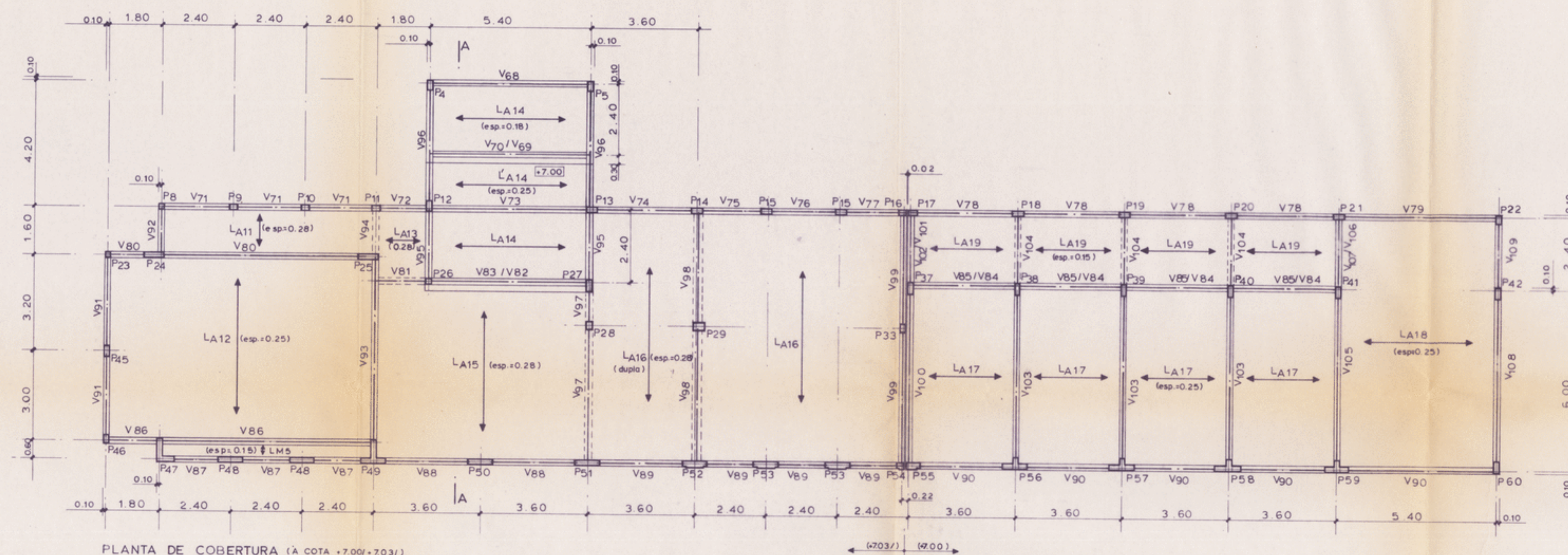


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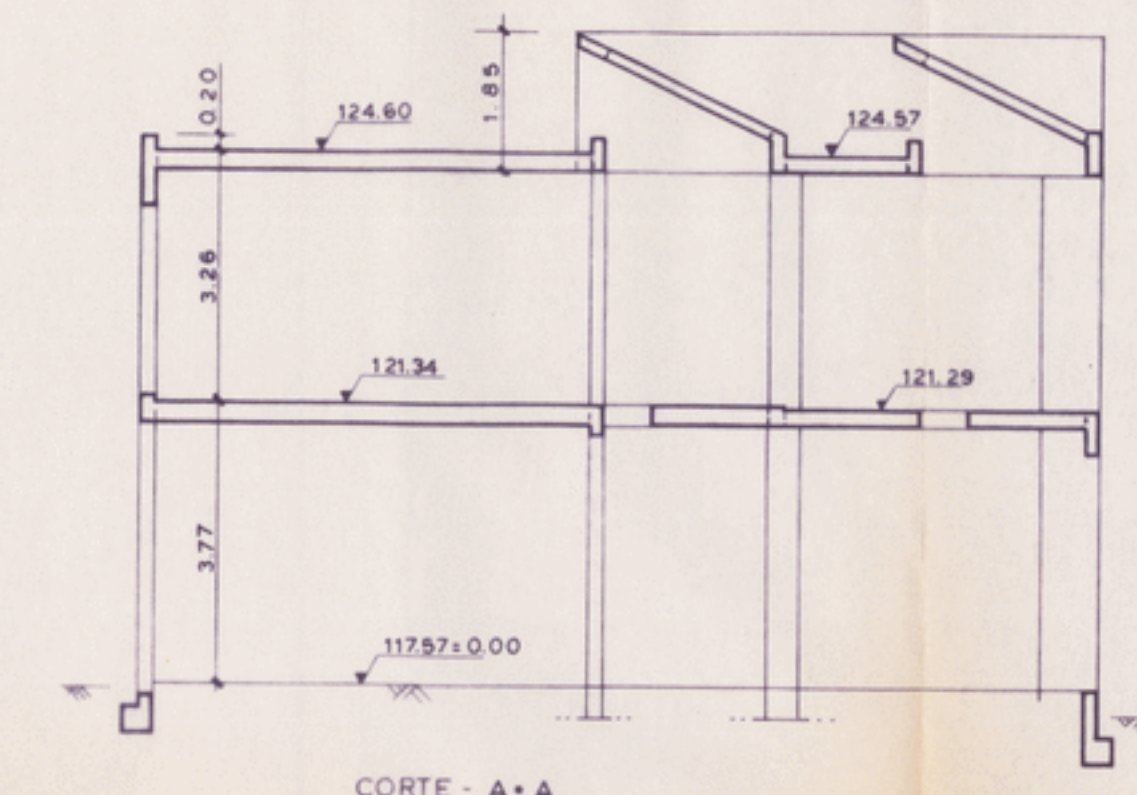
U. PORTO  arquivo central



 TECNOPOR CONSTRUTORES TÉCNICOS, Lda		BIC - CENTRO DE INOVAÇÃO DO PORTO POLO 2 - UNIVERSIDADE DO PORTO PROJECTO DE ESTRUTURAS CORPO - C PLANTA DE FUNDAÇÕES E ENTREPISO		VISTOR:  E 2 / 88 01
EST.  PROJ.  DES.  VER.  ESCALAS 1:100	DATA NOV/88	SUBT. P.01		



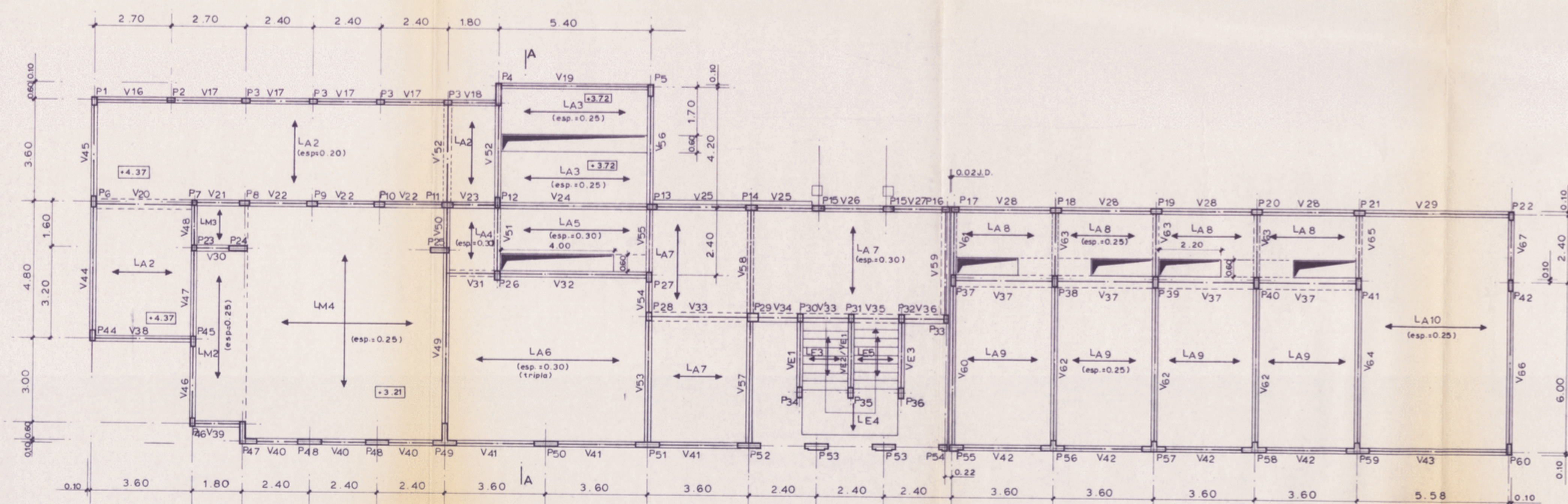
PLANTA DE COBERTURA (À COTA +7.00/-7.03/1)



CORTE - A-A

LAJES ALIGEIRADAS	Espessura (m)	P. Próprio (KN/m²)	M _s (KNm/m)	V _s (KN/m)	DISTRIBUIÇÃO Melhorada	APÓIOS d	Nº	VARUGOS d
LA1	0.25	3.00	15.39	17.10	AR50	7.48	1	2.410
LA2	0.20	2.60	10.29	11.43	AR38	7.48	1	2.410
LA3	0.25	3.00	27.34	20.25	AR50	7.48	2	2.410
LA4	0.30	4.04	7.60	12.65	AR50	7.48	1	2.410
LA5	0.30	4.04	38.42	28.46	AR50	7.48	2	2.410
LA6	0.30	4.83	85.55	40.56	AR70	7.412	3	2.420
LA7	0.30	4.04	30.81	28.90	AR50	7.48	1	2.410
LA8	0.25	3.00	15.39	17.10	AR50	7.48	1	2.410
LA9	0.25	3.00	12.15	13.50	AR50	7.48	1	2.410
LA10	0.25	3.00	27.34	20.25	AR50	7.48	2	2.410
LA11	0.28	3.56	1.94	4.85	AR50	7.48	—	—
LA12	0.25	3.00	26.57	17.14	AR50	7.48	3	2.410
LA13	0.28	3.56	2.45	5.45	AR38	7.46	—	—
LA14	0.25	3.00	20.05	14.85	AR50	7.48	2	2.410
LA15	0.18	2.10	15.60	11.56	AR50	7.48	2	2.410
LA16	0.28	3.56	27.27	18.18	AR50	7.48	2	2.410
LA17	0.28	4.35	60.42	28.77	AR60	7.410	4	2.412
LA18	0.25	3.00	8.91	9.90	AR38	7.46	1	2.410
LA19	0.15	1.70	4.42	4.91	AR38	7.46	1	2.410

O COMPRIMENTO DA ARMADURA SOBRE OS APOIOS É IGUAL A 1/5 DO VÃO DA LAJE



PLANTA DO 1º ANDAR (À COTA +3.77/+3.21/+3.72/+4.37)

CONSULTORES TÉCNICOS, Lda

BIC - CENTRO DE INOVAÇÃO DO PORTO

POLO 2 - UNIVERSIDADE DO PORTO

PROJECTO DE ESTRUTURAS

CORPO - C

PLANTA DO 1º ANDAR E DE COBERTURA

EST. *[Signature]*

PROJ. *[Signature]*

DES. *[Signature]*

VERB. *[Signature]*

ESCALA 1:100

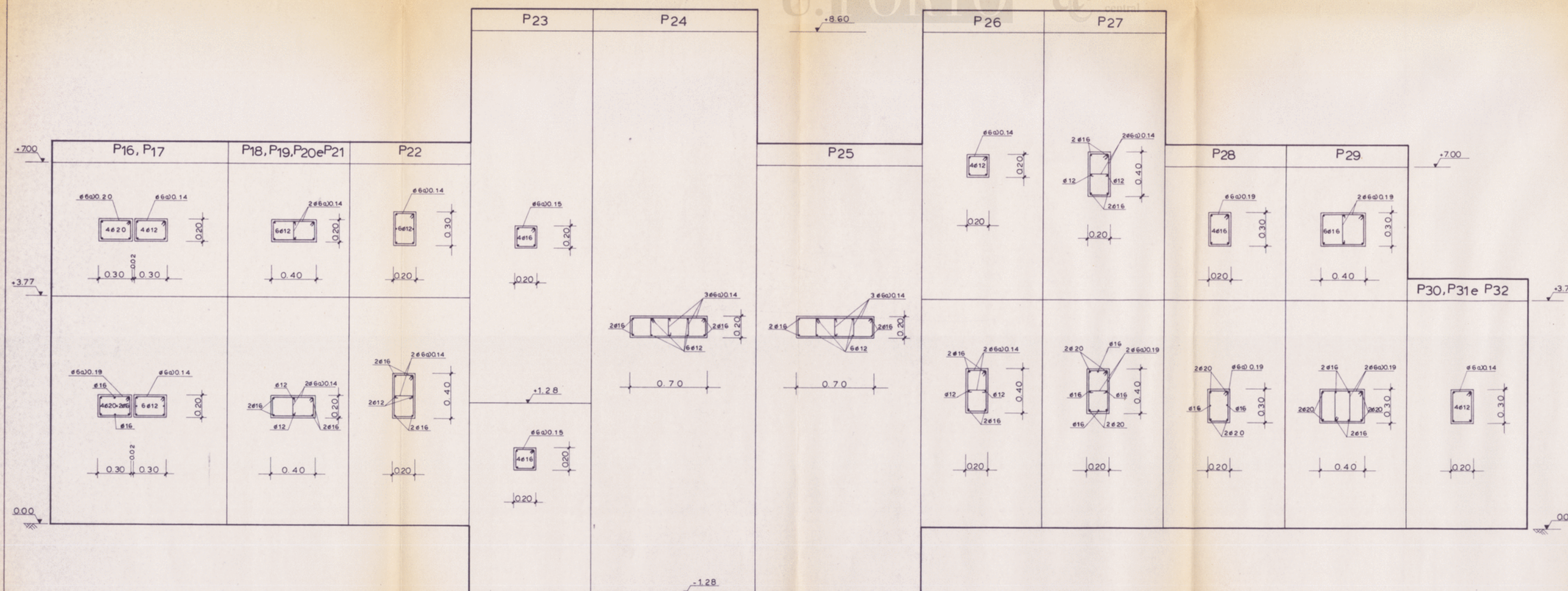
DATA NOV/88

AC-2145-3

[Signature]

E2/88

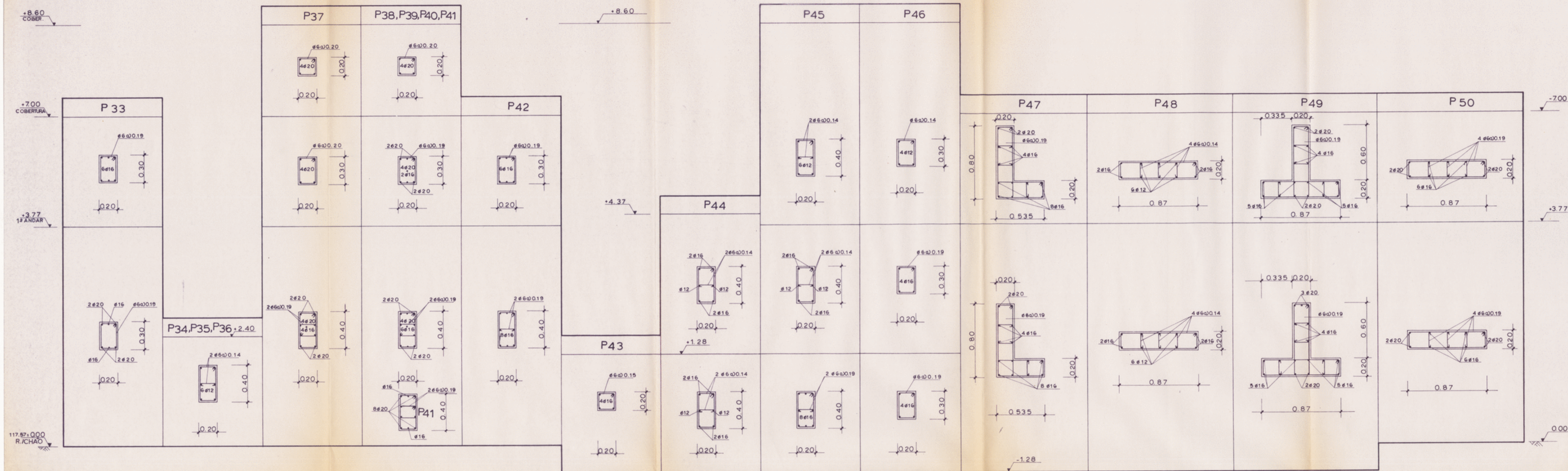
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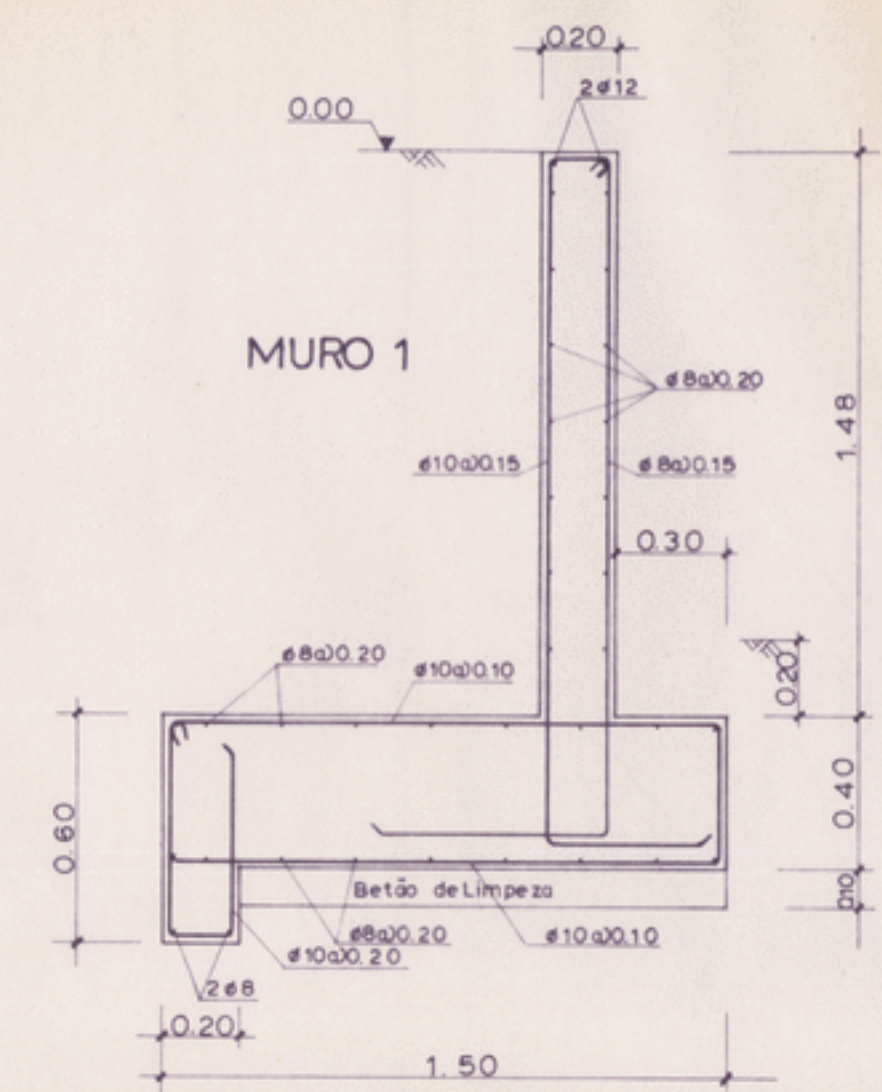
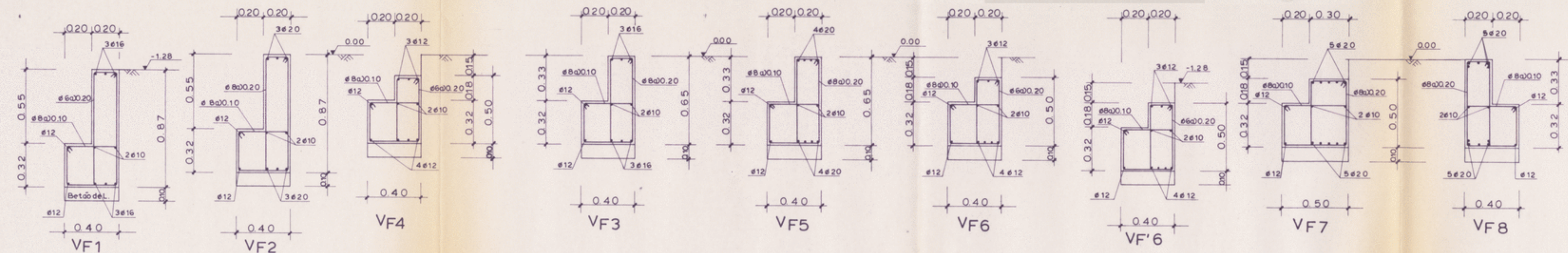
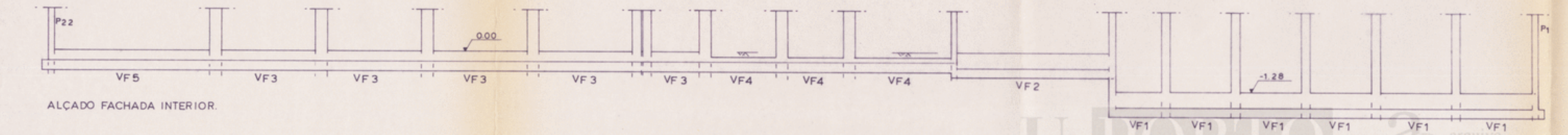
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MATERIAIS:
A 400ER
B 25

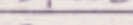
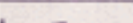
 TECNOPOR CONSULTORIA TÉCNICA LTDA	BIC - CENTRO DE INOVAÇÃO DO PORTO POLO 2 - UNIVERSIDADE DO PORTO		Nº: 2145-4 VIGOS:						
	PROJECTO DE ESTRUTURAS CORPO - C		 <table border="1"> <tr> <td>E</td> <td>2</td> <td>18</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	E	2	18			
	E	2		18					
	PILARES P1 a P32								
EST. <i>ESTRUTURAS</i> PROJ. <i>ALB</i> DES. <i>ALB</i> VISE. <i>ALB</i> VISE. <i>ALB</i> DATA 1.20 DATA NOV/88	SURT. POR								

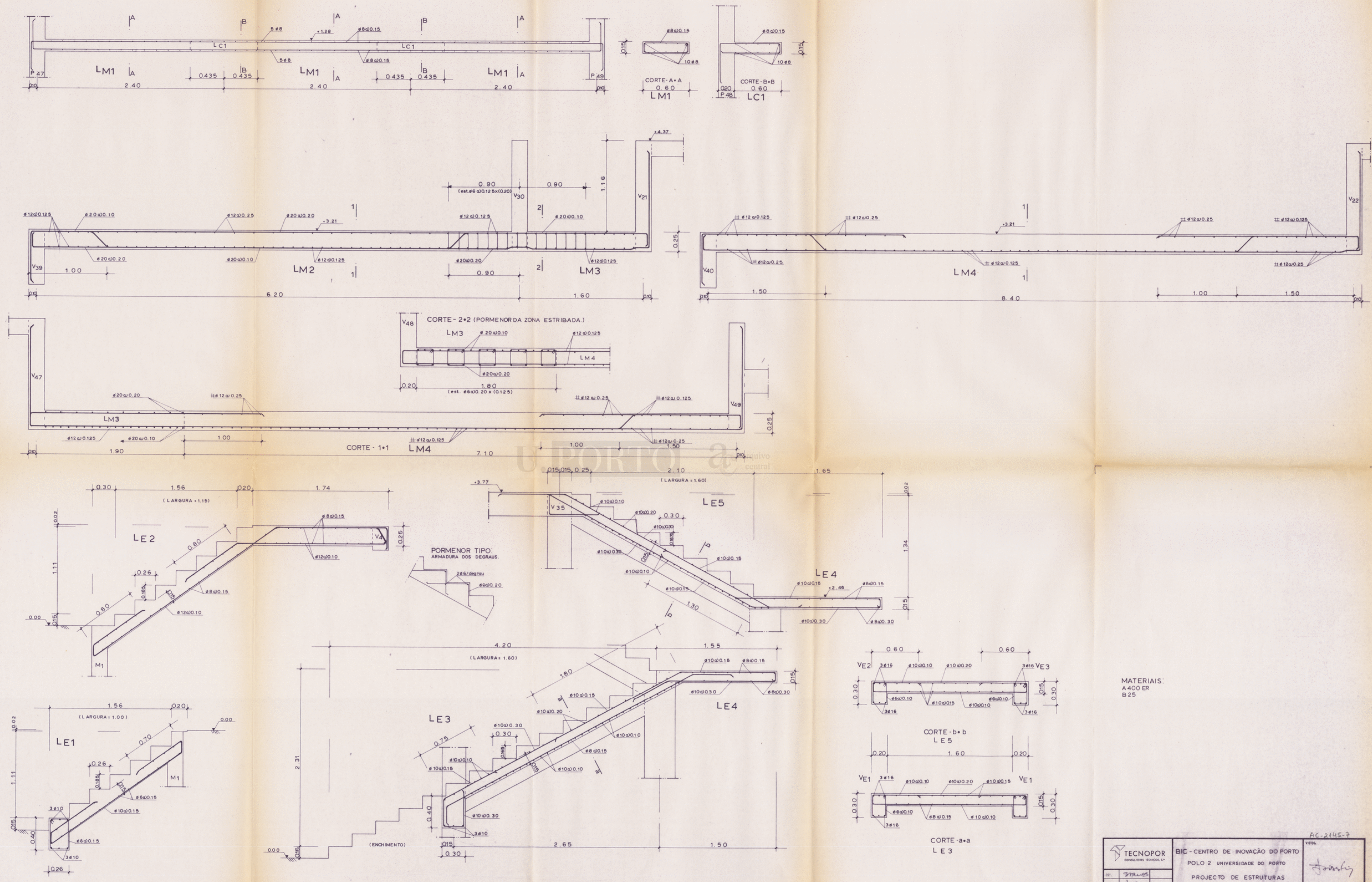
PILARES:





MATERIAIS
A 400 ER
B 25

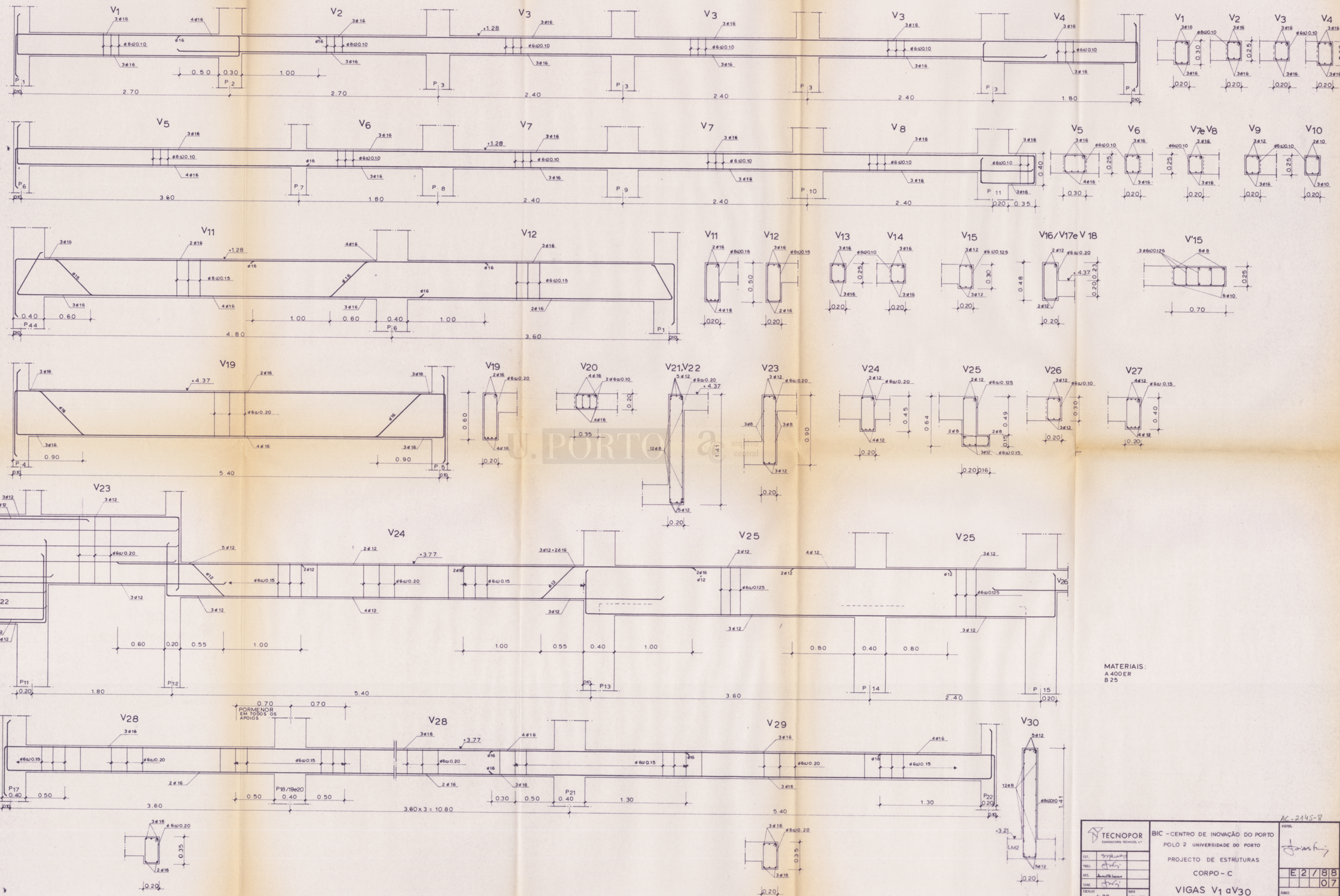
 TECNOPOR CONSULTORES TÉCNICOS, L ^{DA}		BIC - CENTRO DE INOVAÇÃO DO PORTO POLO 2 UNIVERSIDADE DO PORTO PROJECTO DE ESTRUTURAS CORPO - C VIGAS de FUNDAÇÃO e MURO 1		AC-2145-6 VIGOS: 
EST.				
PROJ.				
DES.				
VERF.				
ESCALAS	1:20	DATA	NOV/88	
		SURST: SURST. POR		E 2 / 8 8 0 5



MATERIAIS:
A 400 ER
B 25

		BIC - CENTRO DE INOVAÇÃO DO PORTO POLO 2 UNIVERSIDADE DO PORTO PROJECTO DE ESTRUTURAS CORPO - C LAJES LM1, LM4, LE1, LE5, LC1 VIGAS VE1 a VE3		AC-2145-7 E2/88 016
EST. PROJ. DES. VEMB. ESCALAS 1:20 DATA NOV/88	VIGAS 1:20			

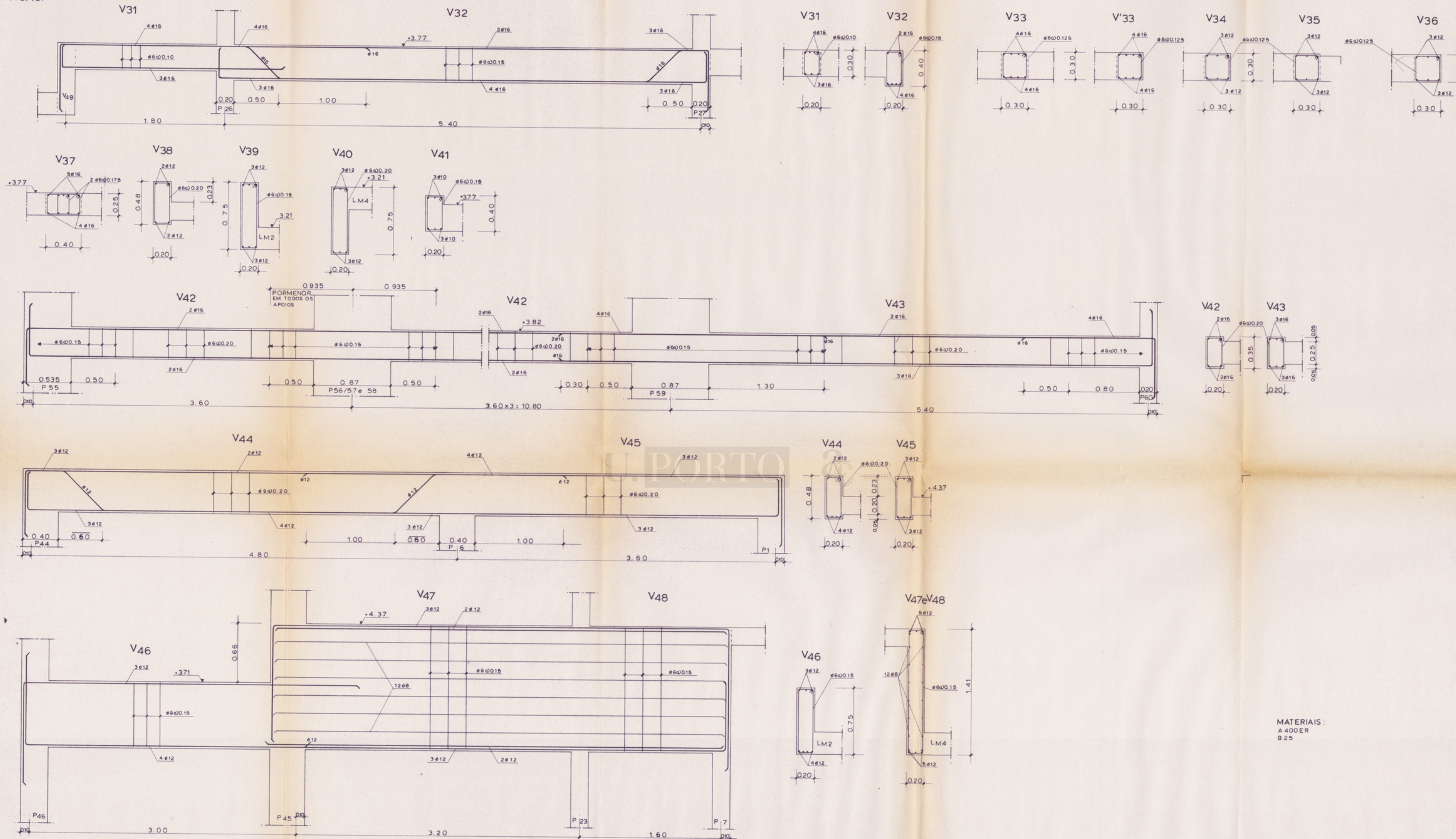
VIGAS:



MATERIAIS:
A 400ER
B 25

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PROJETO DE ESTRUTURAS CORPO - C		VIGAS V1 a V30	
E2/88 07	1:20	DATA NOV/88	DES. POR

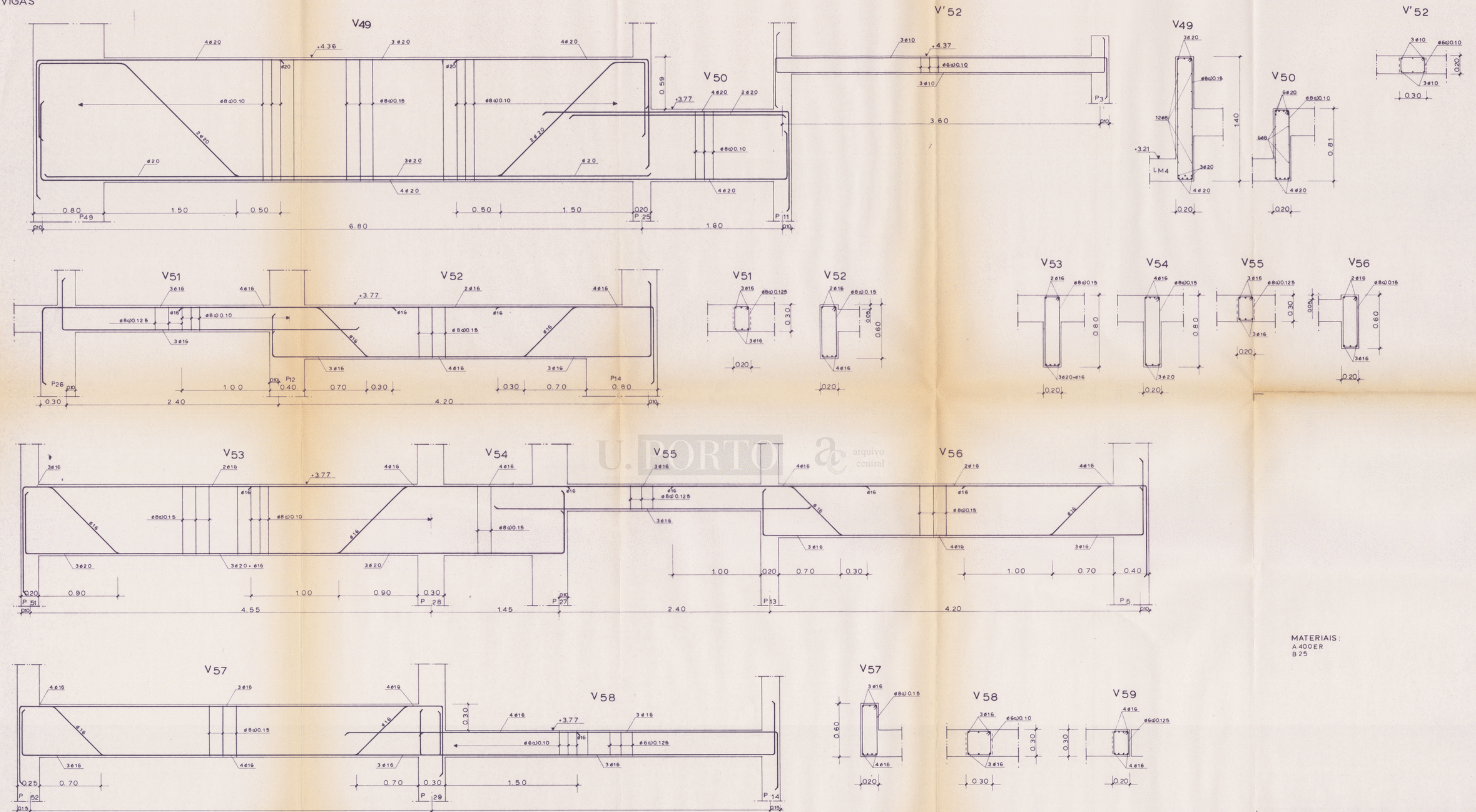
VIGAS:



MATERIAIS :
A 400 ER
B 25

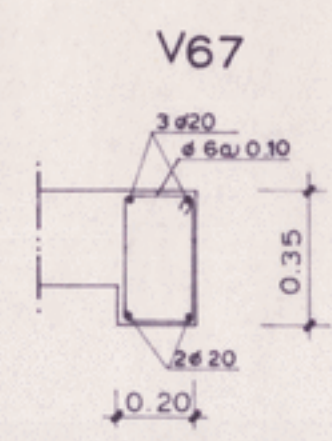
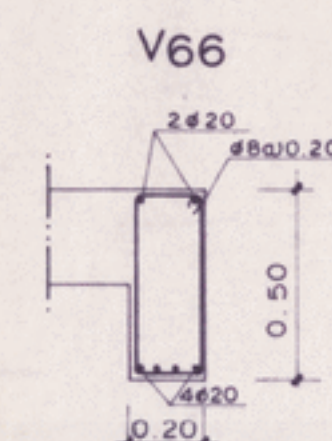
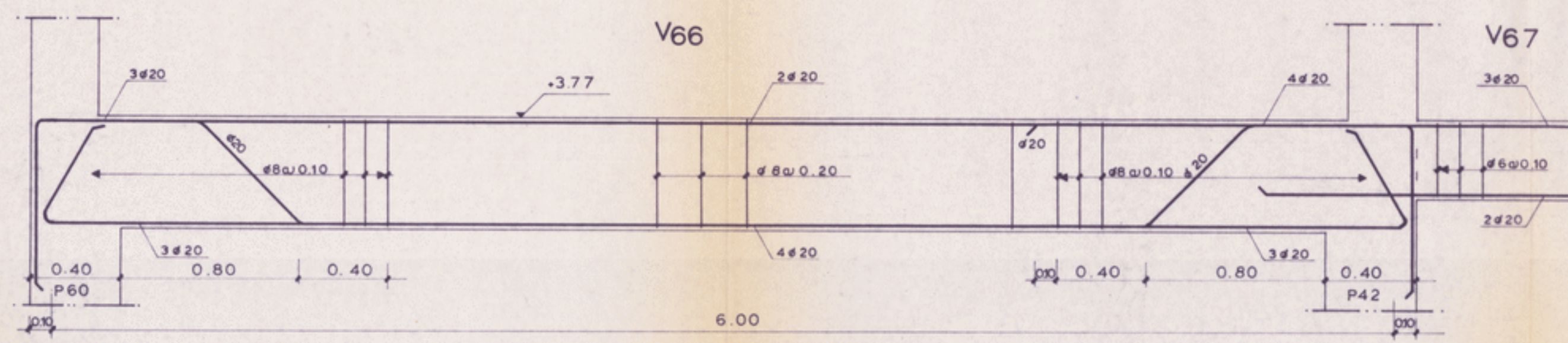
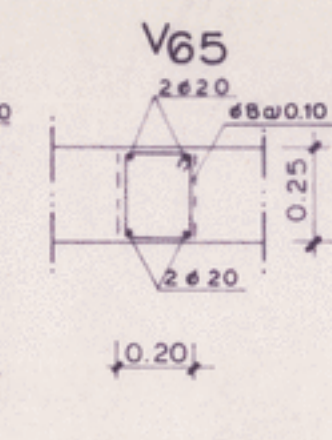
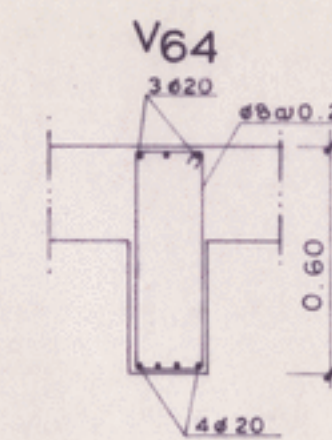
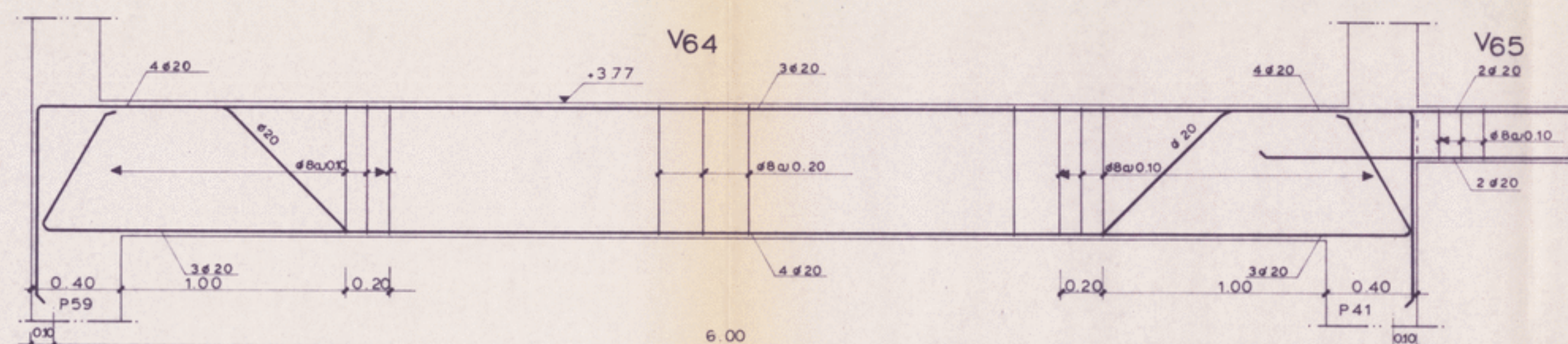
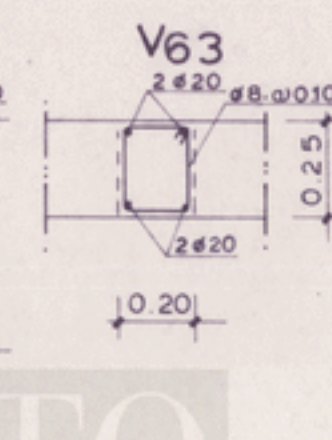
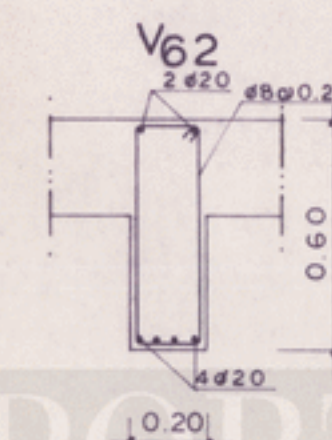
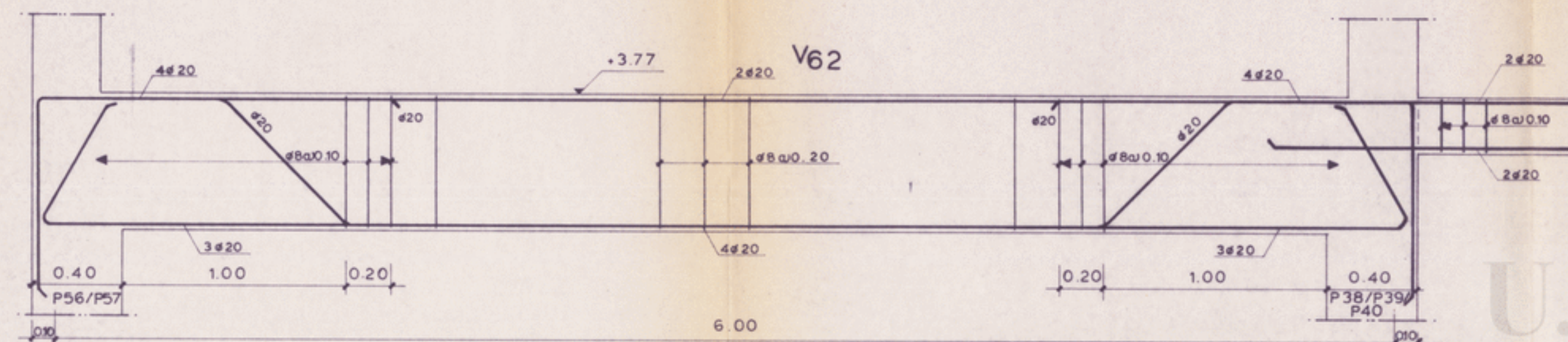
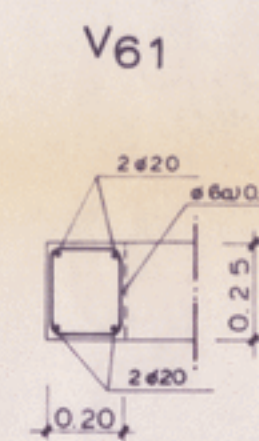
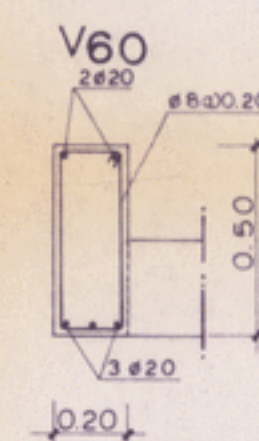
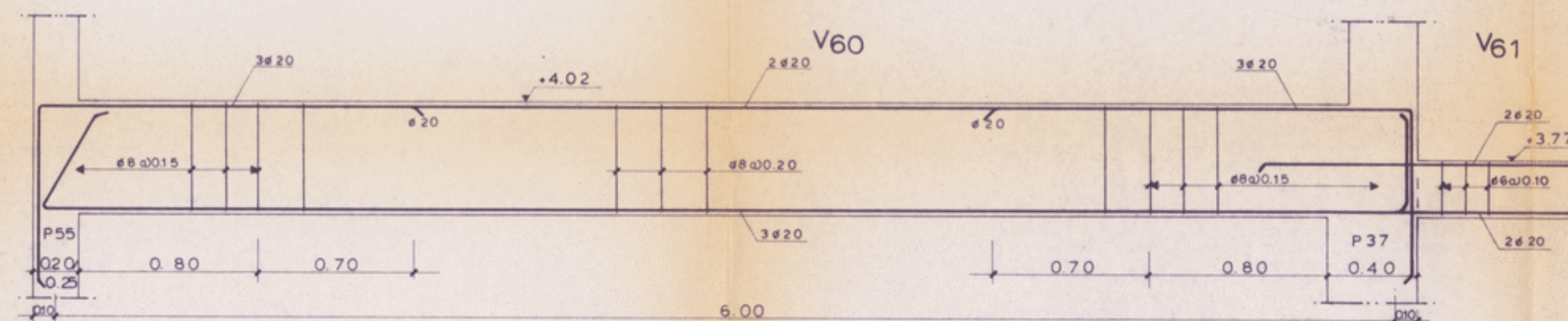
 TECNOPOR CONDIÇÕES TÉCNICAS, L ^{da}		AC-2145-9 VIDEL	
EST. <i>30/04/91</i>		BIC - CENTRO DE INOVAÇÃO DO PORTO	
PROJ. <i>10/04/91</i>		POLO 2 - UNIVERSIDADE DO PORTO	
DES. <i>10/04/91</i>		PROJECTO DE ESTRUTURAS	
VISE. <i>10/04/91</i>		CORPO - C	
EXEC. <i>1.20</i>		VIGAS <i>V31 a V48</i>	
DATA NOV/98		SURT.	
		SURT. 0000	

VIGAS



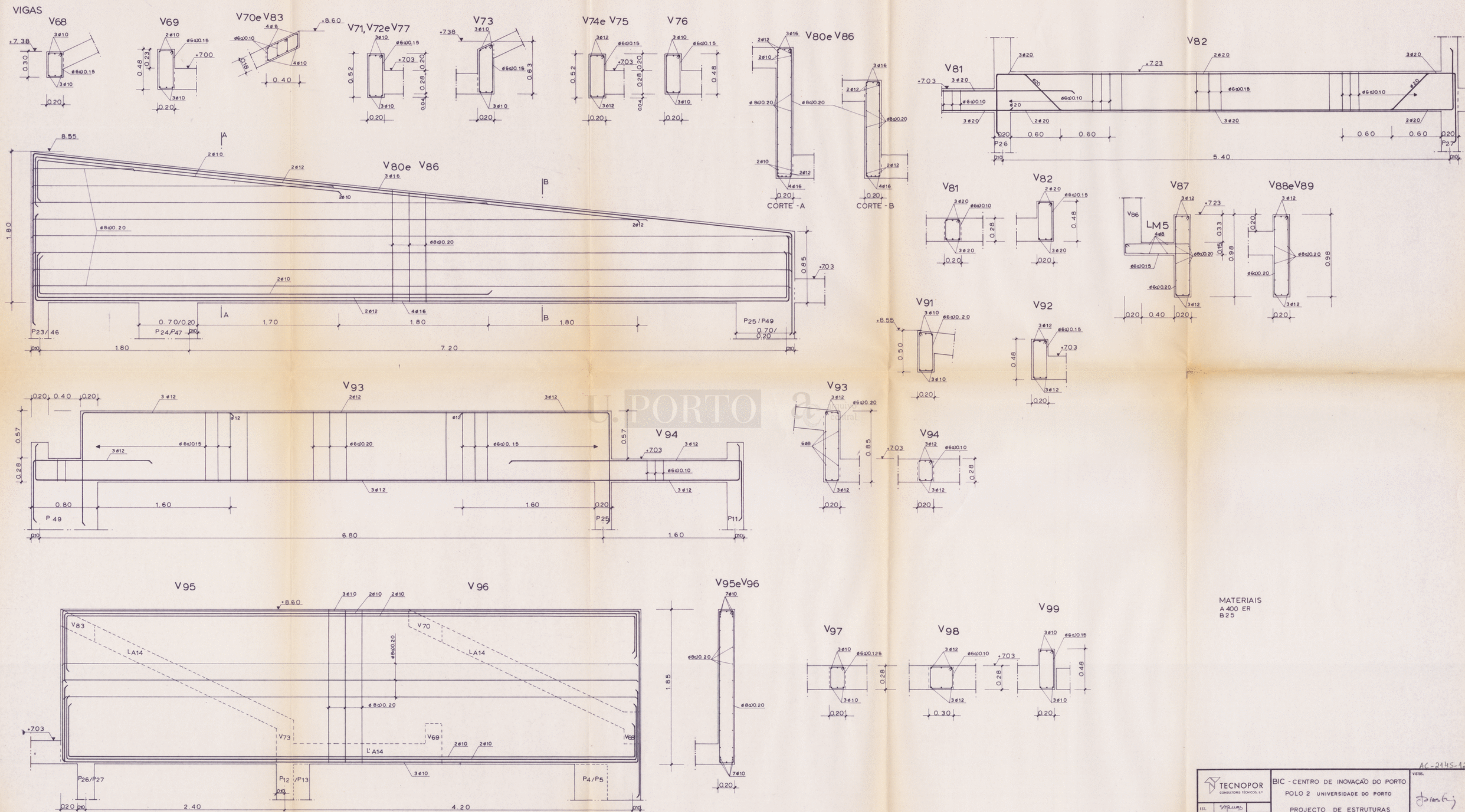
MATERIAIS:
A 400ER
B 25

TECNOPOR CONSTRUTORES TÉCNICOS, L.P.		BIC - CENTRO DE INOVAÇÃO DO PORTO POLO 2 UNIVERSIDADE DO PORTO		AC-2445-10
PROJETO DE ESTRUTURAS		CORPO - C		VIGAS
VIGAS V49aV59		1 20		NOV/88
1 20		NOV/88		09

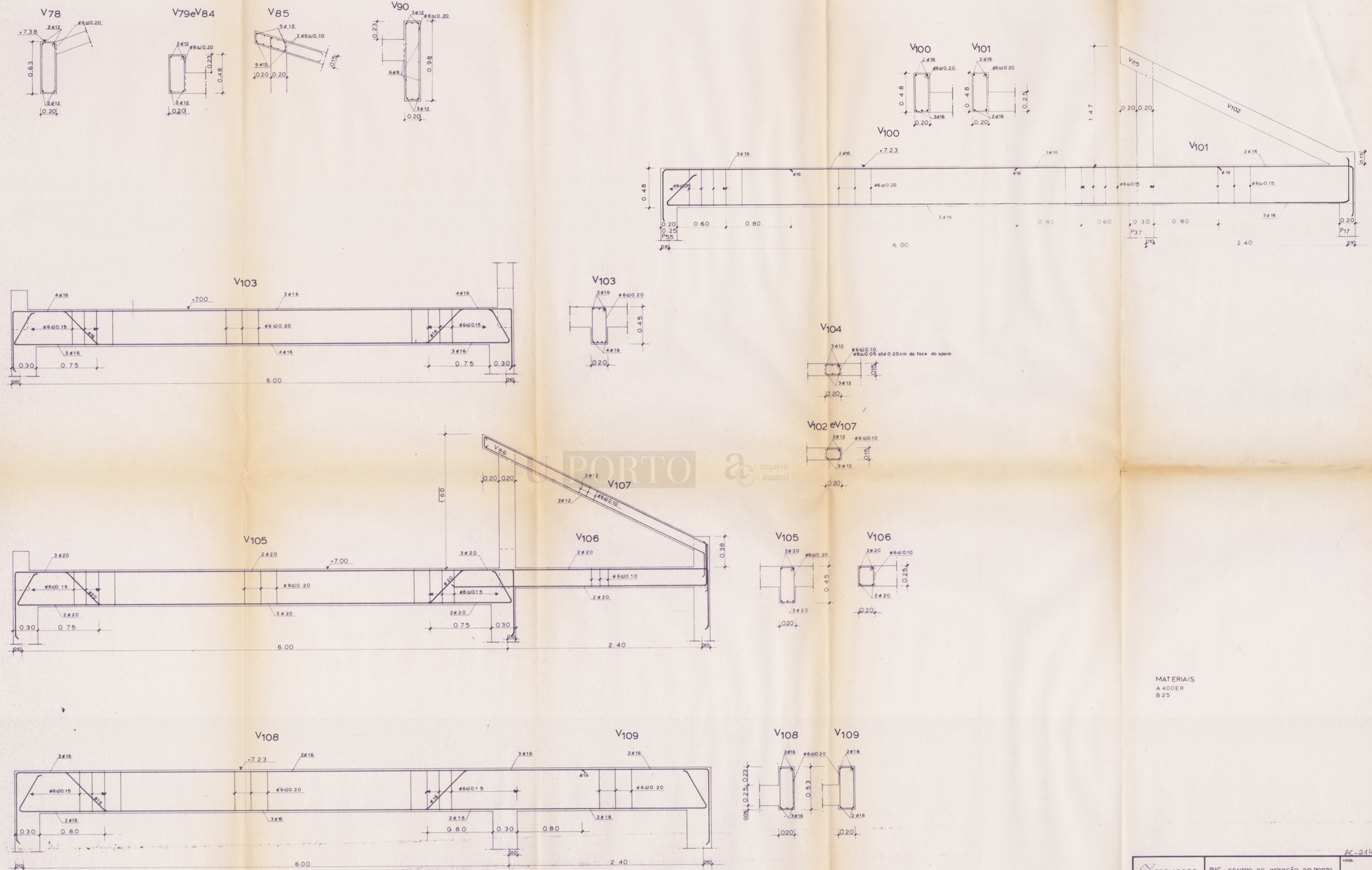


MATERIAIS
A 400 ER
B 25

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EST.	Suprimentos			
PROJ.	Suprimentos			
DEL.	Suprimentos			
VERIF.	Suprimentos			
ESCALAS	1:20	DATA	NOV./88	



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EST.	PROJ.	DES.	VER.	ESCALAS
1:20				



MATERIAIS
A 400ER
B 25

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131: SPMAS PROJ: SPMAS DES: SPMAS 1:20 11/88	DATA: 11/88	131: SPMAS PROJ: SPMAS DES: SPMAS 1:20 11/88	131: SPMAS PROJ: SPMAS DES: SPMAS 1:20 11/88	131: SPMAS PROJ: SPMAS DES: SPMAS 1:20 11/88