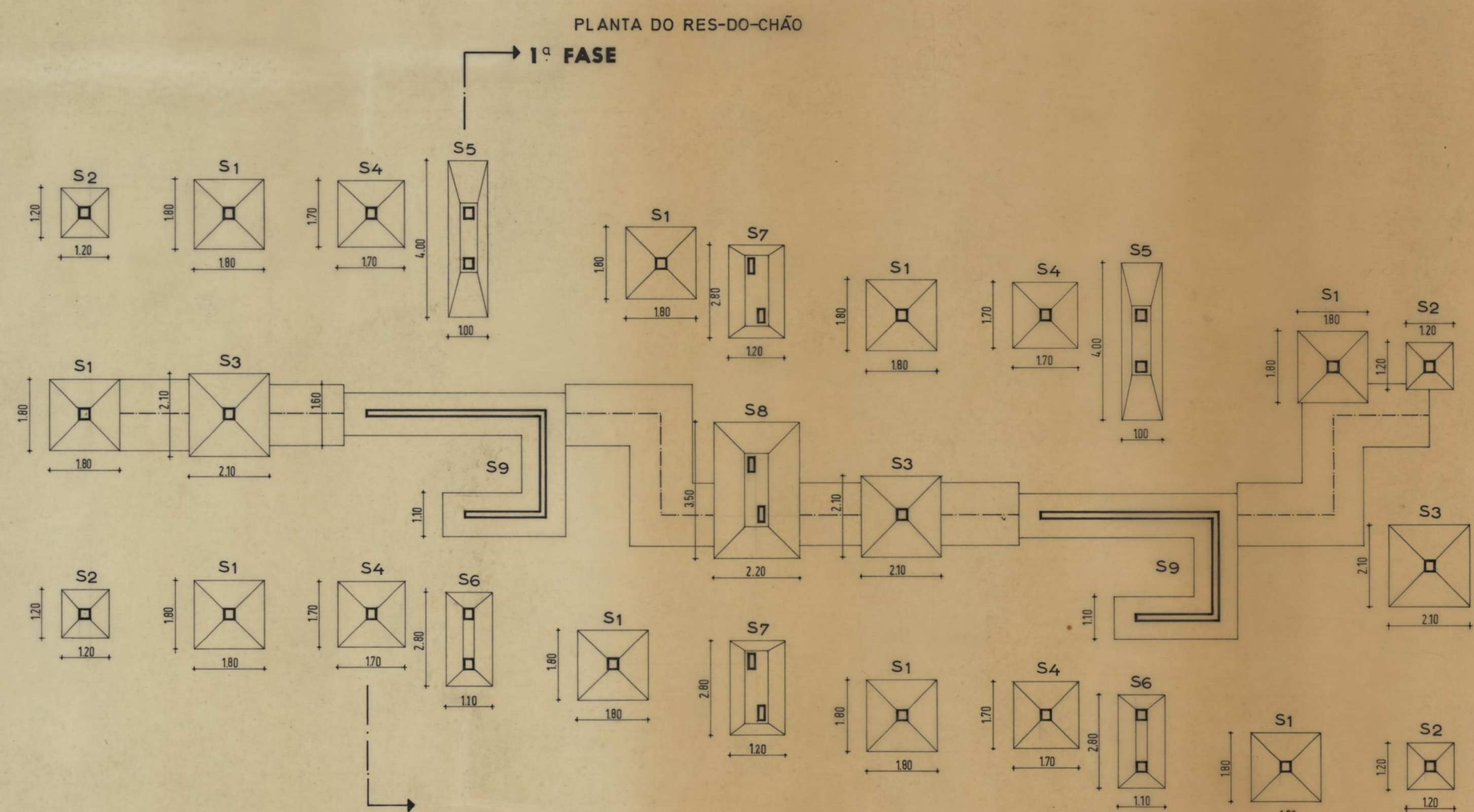
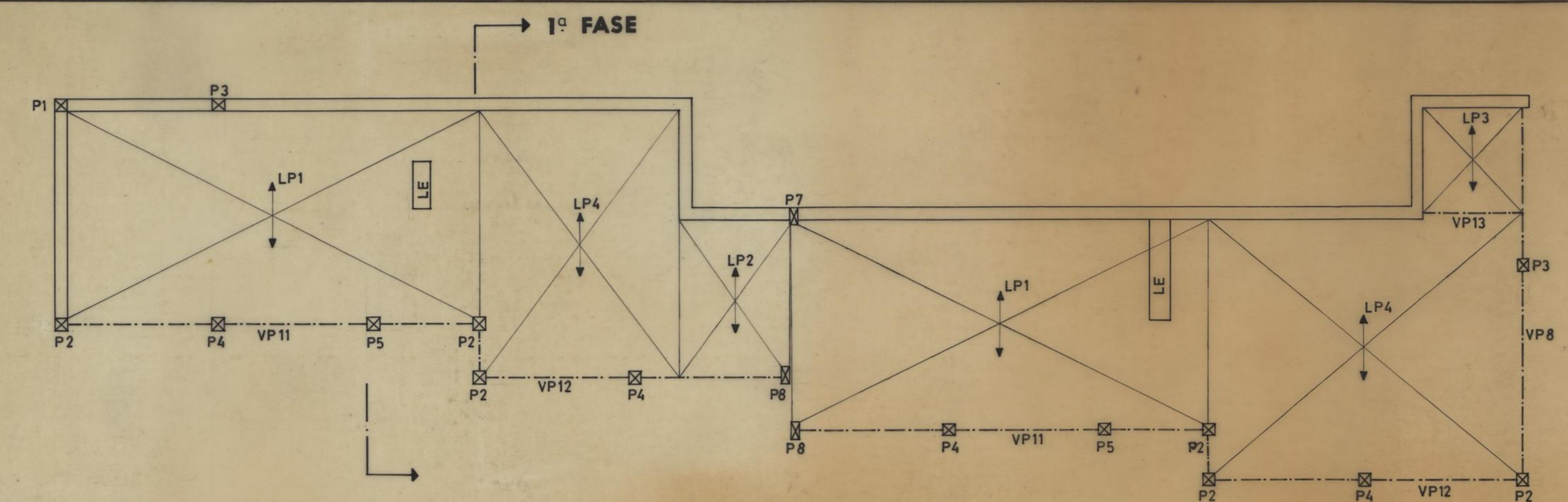
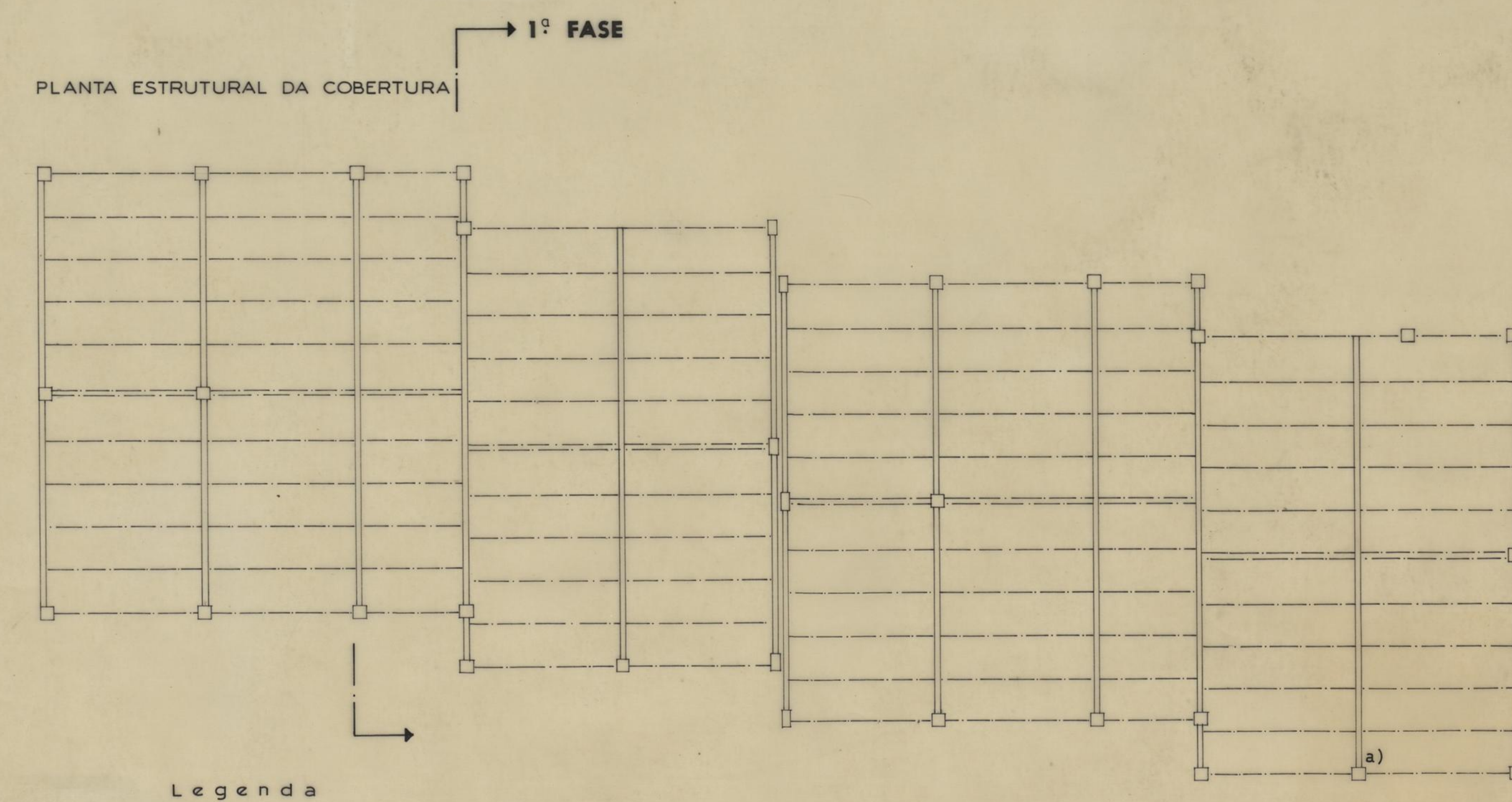
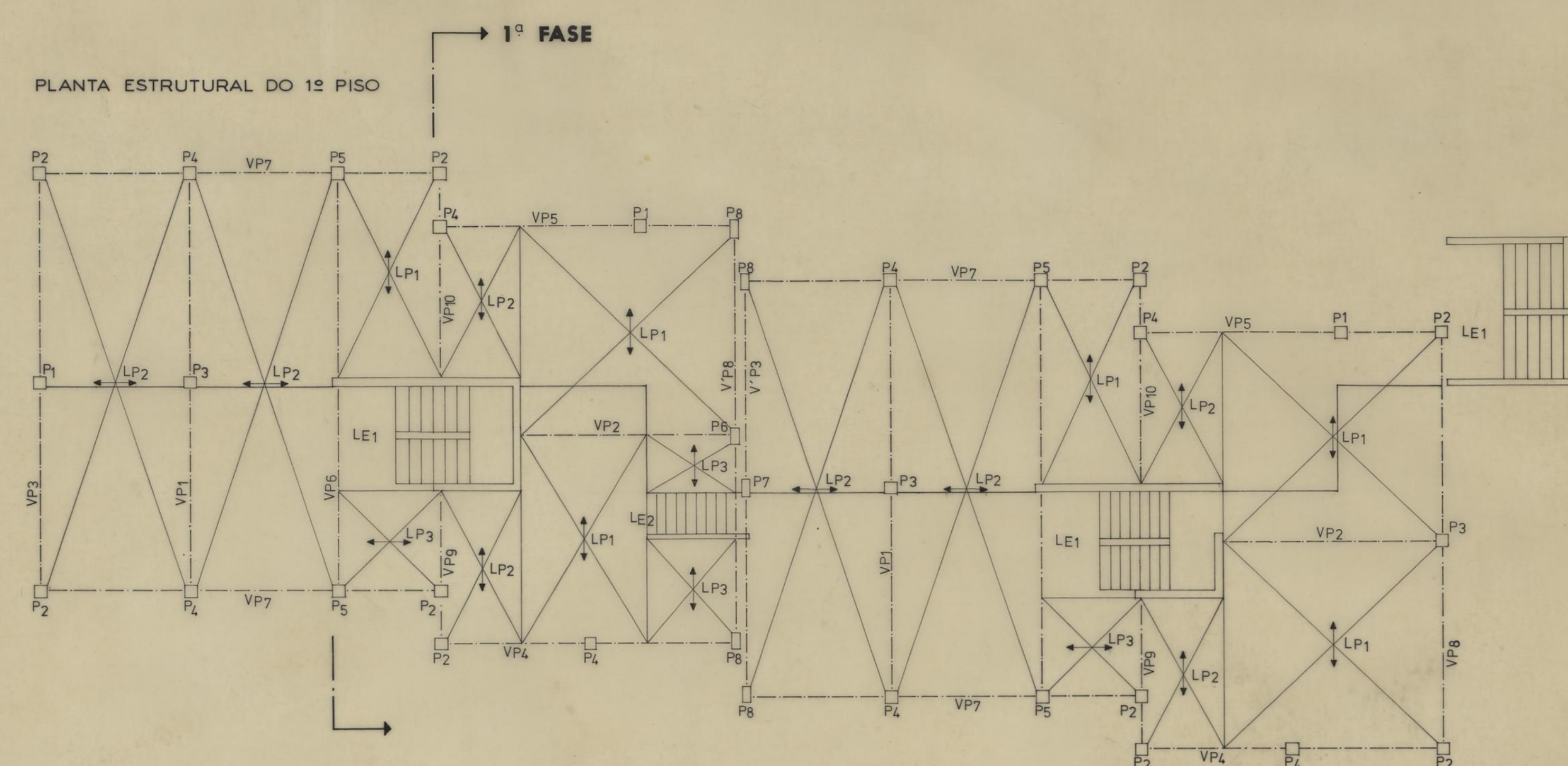
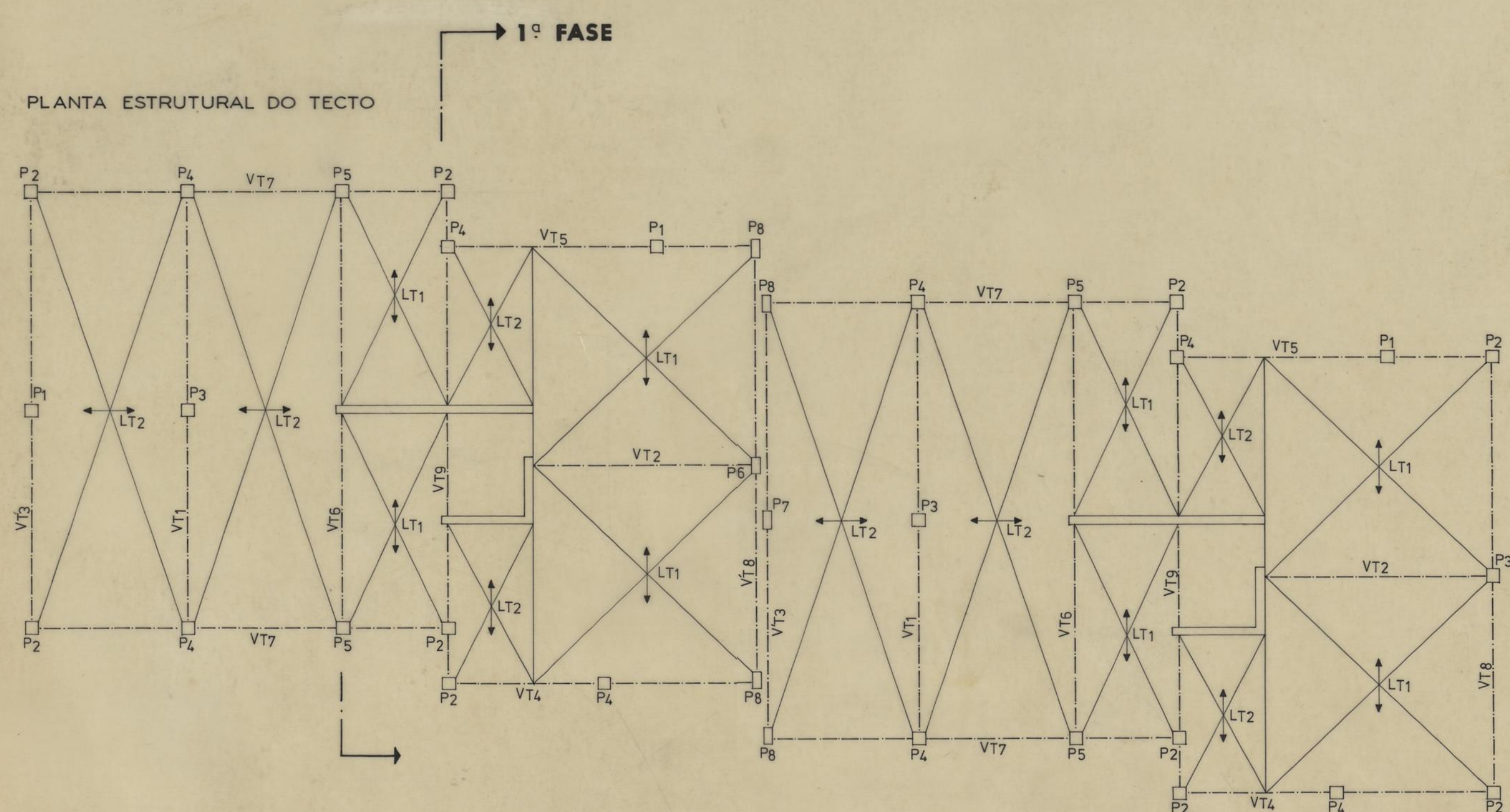
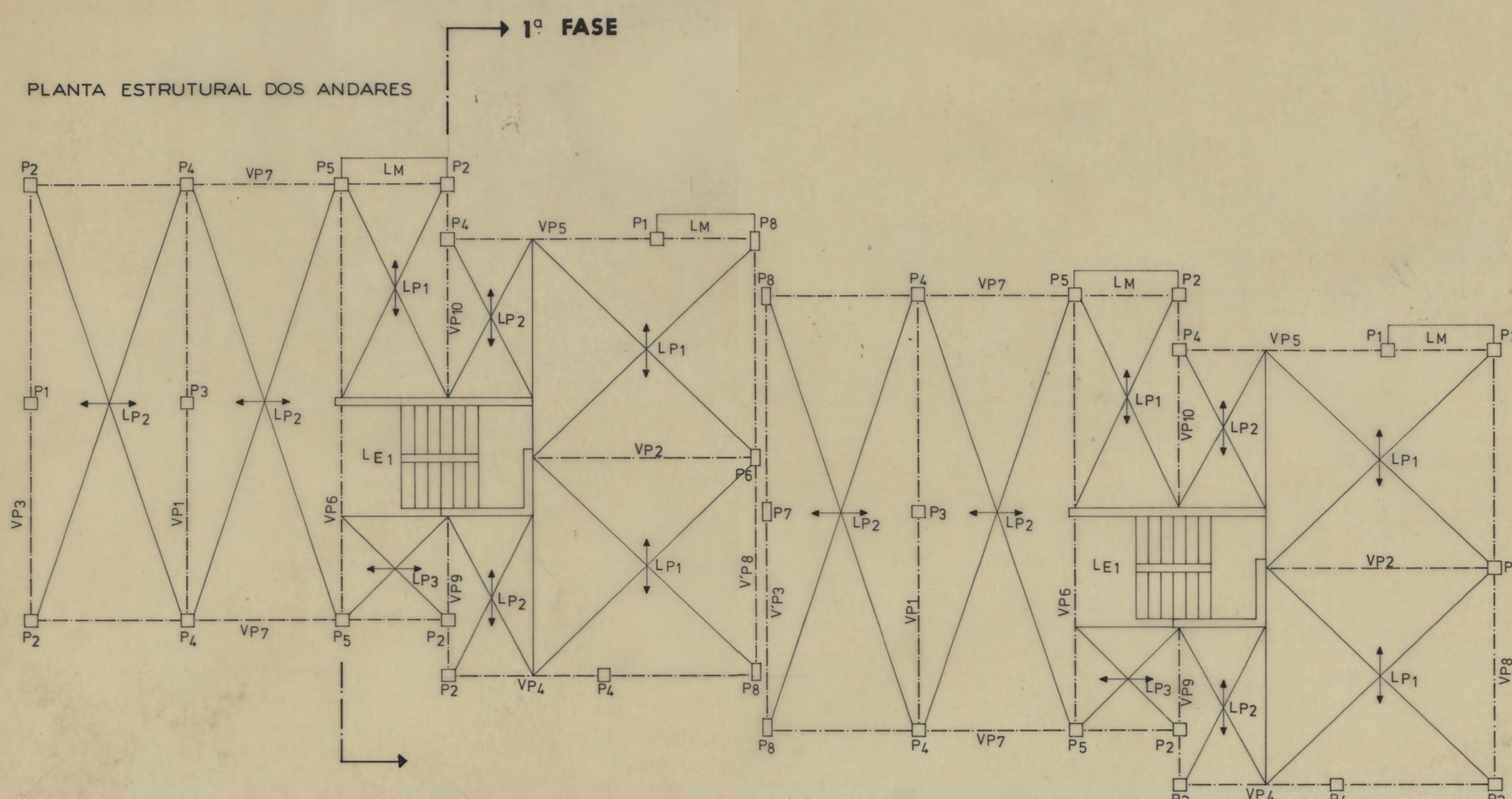




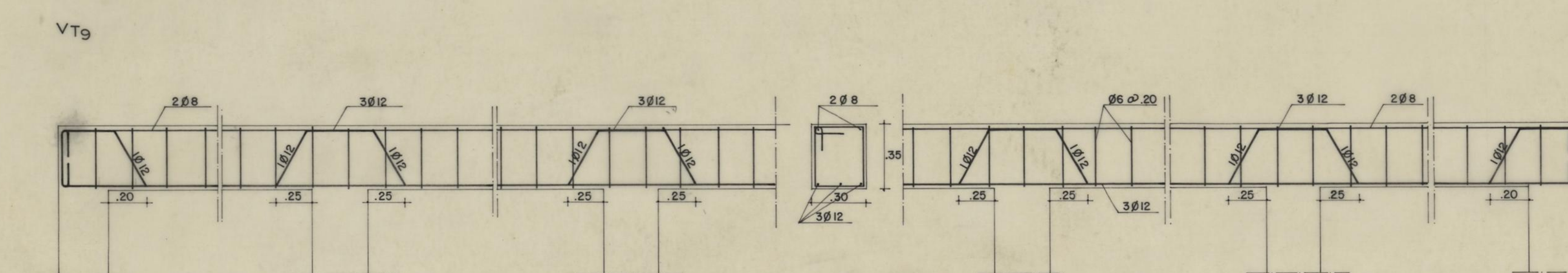
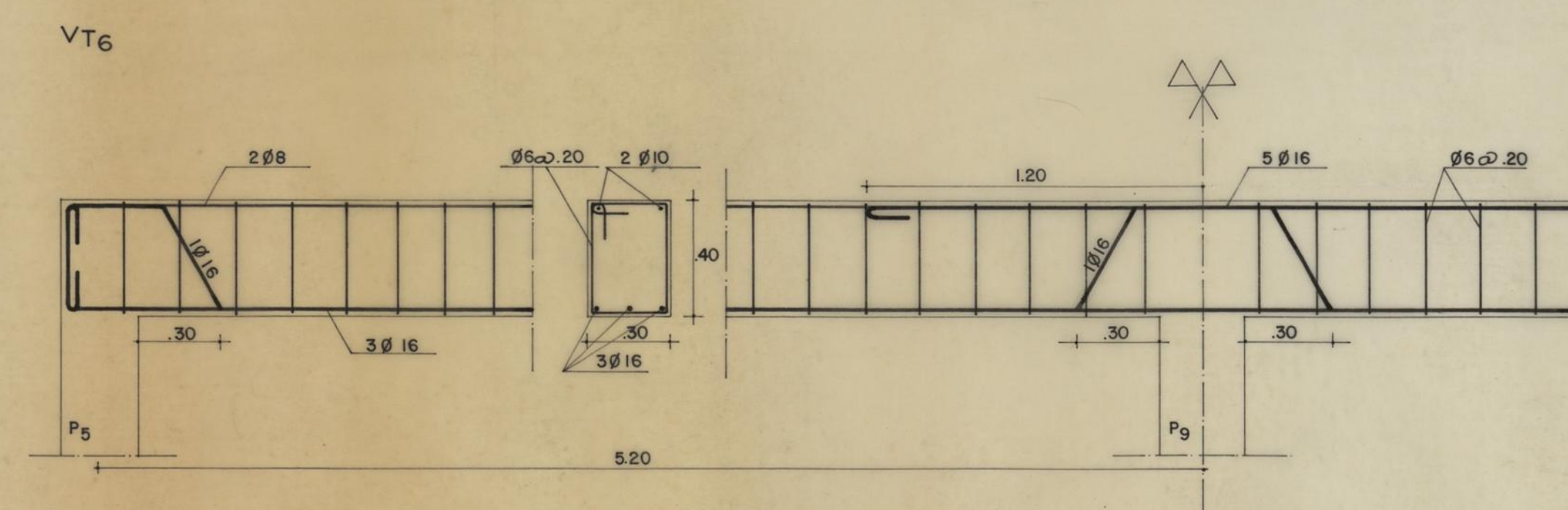
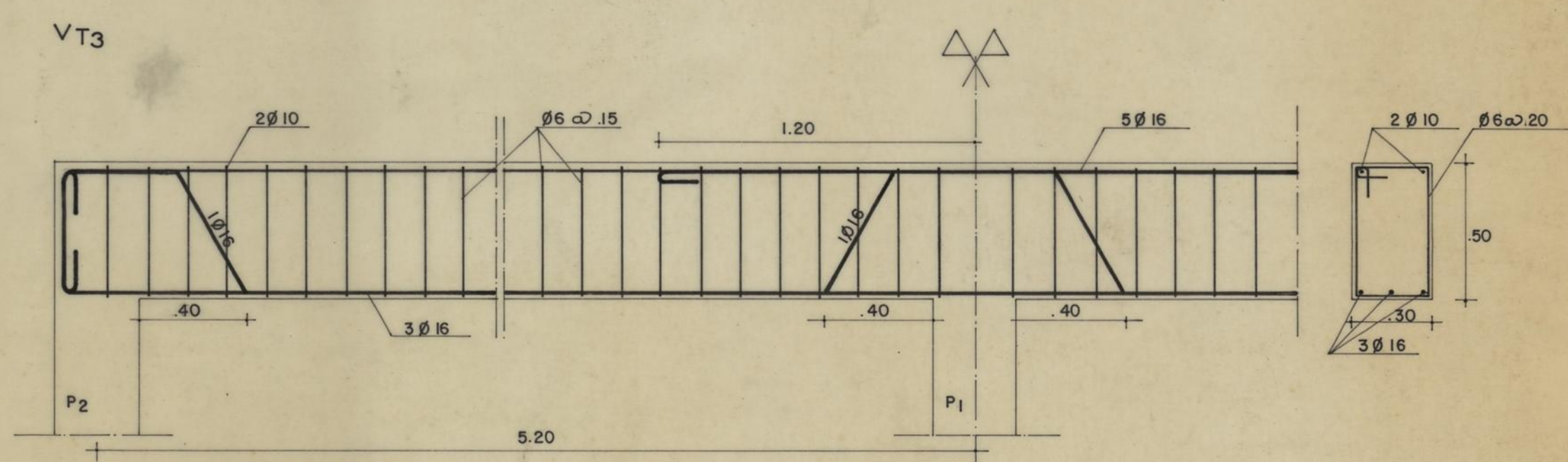
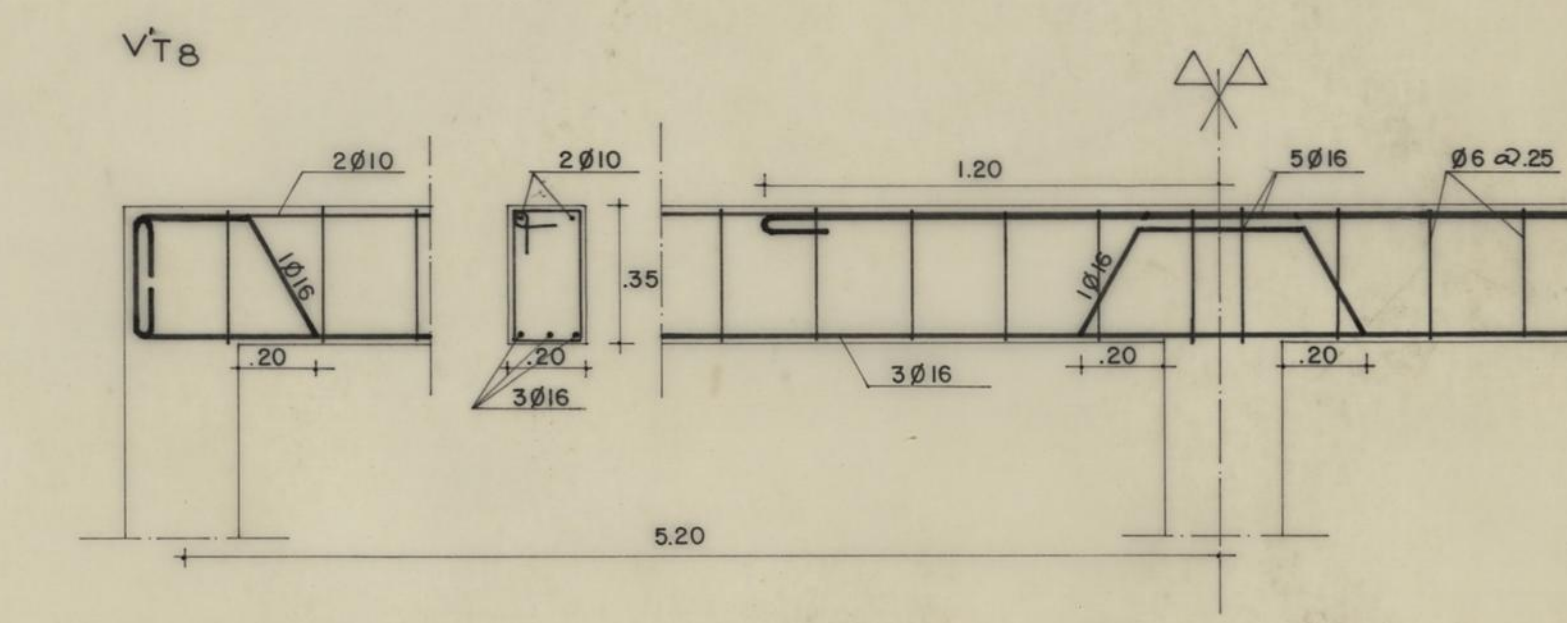
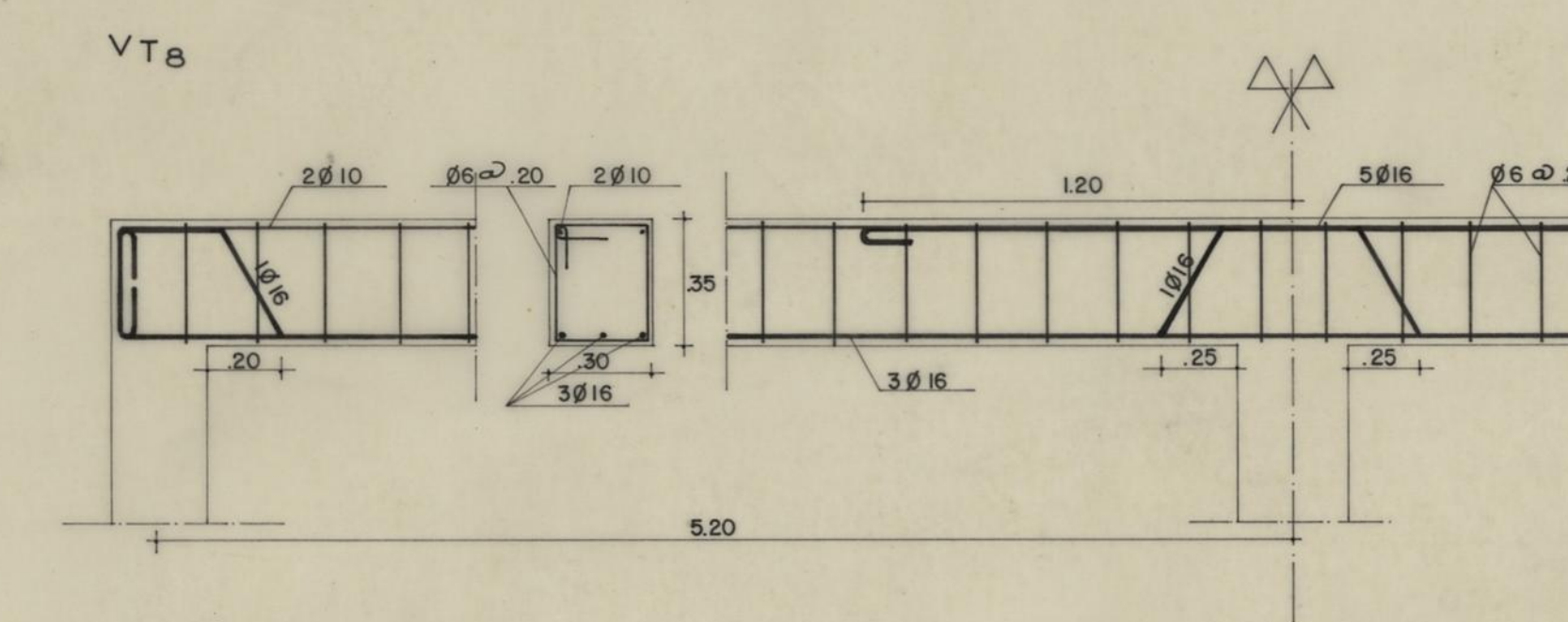
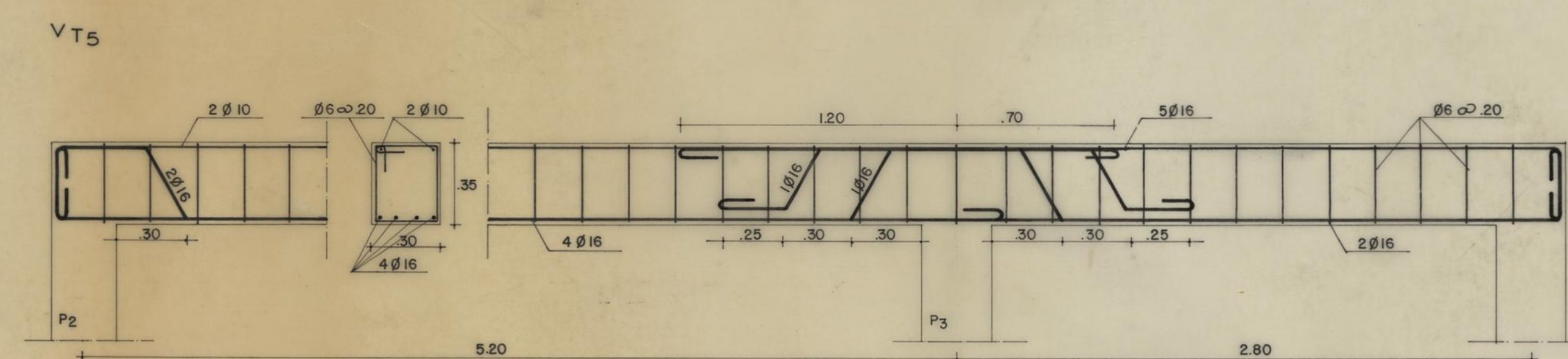
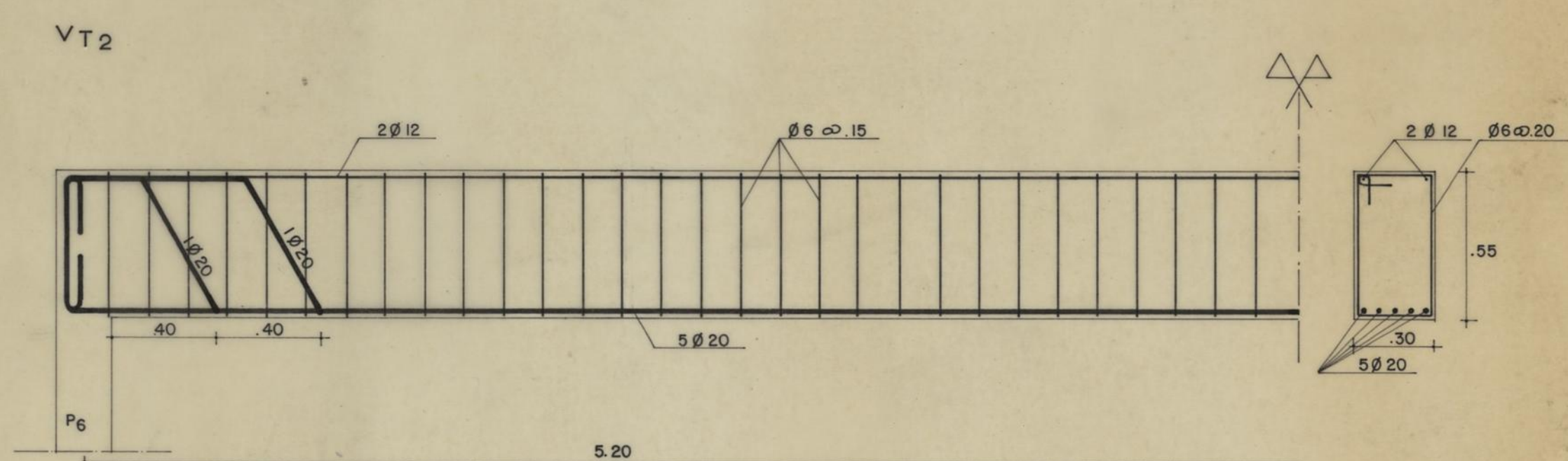
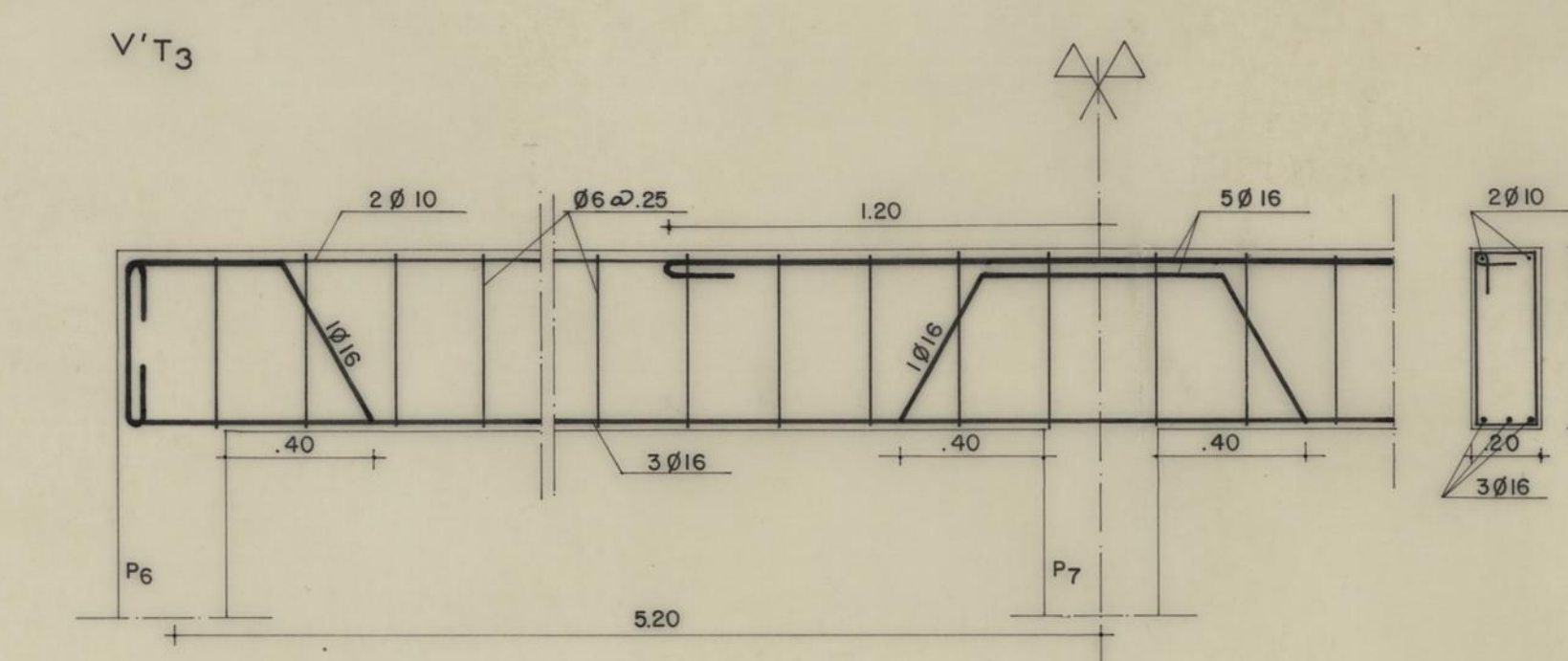
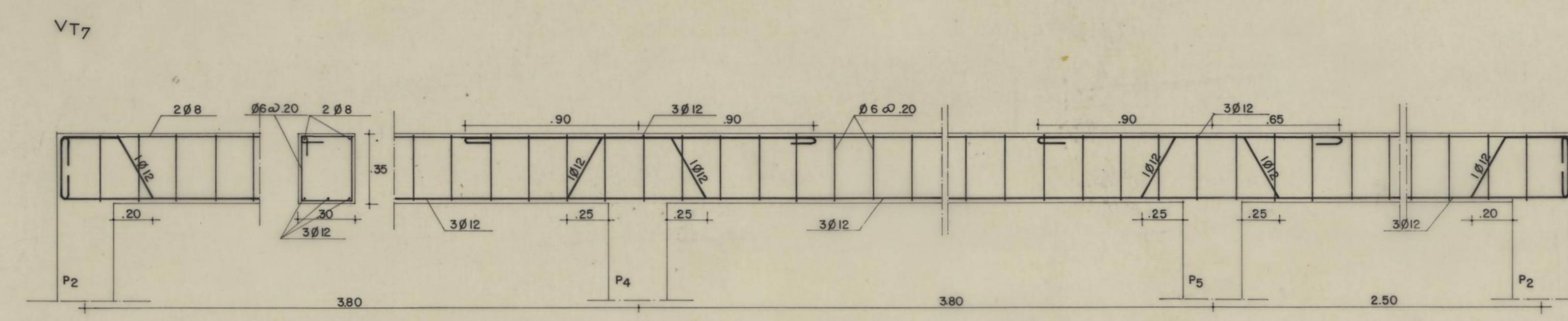
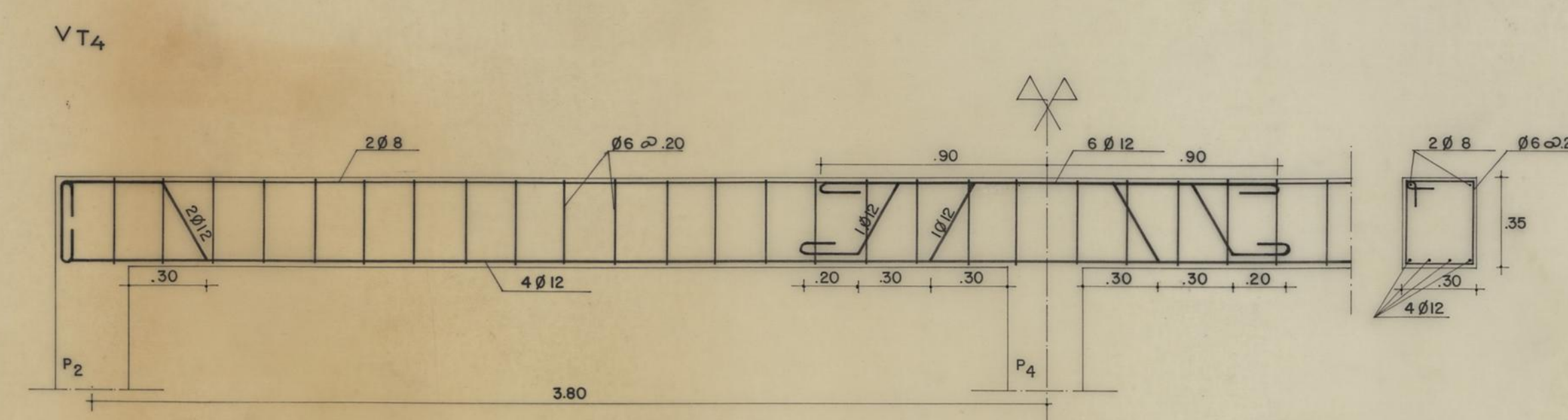
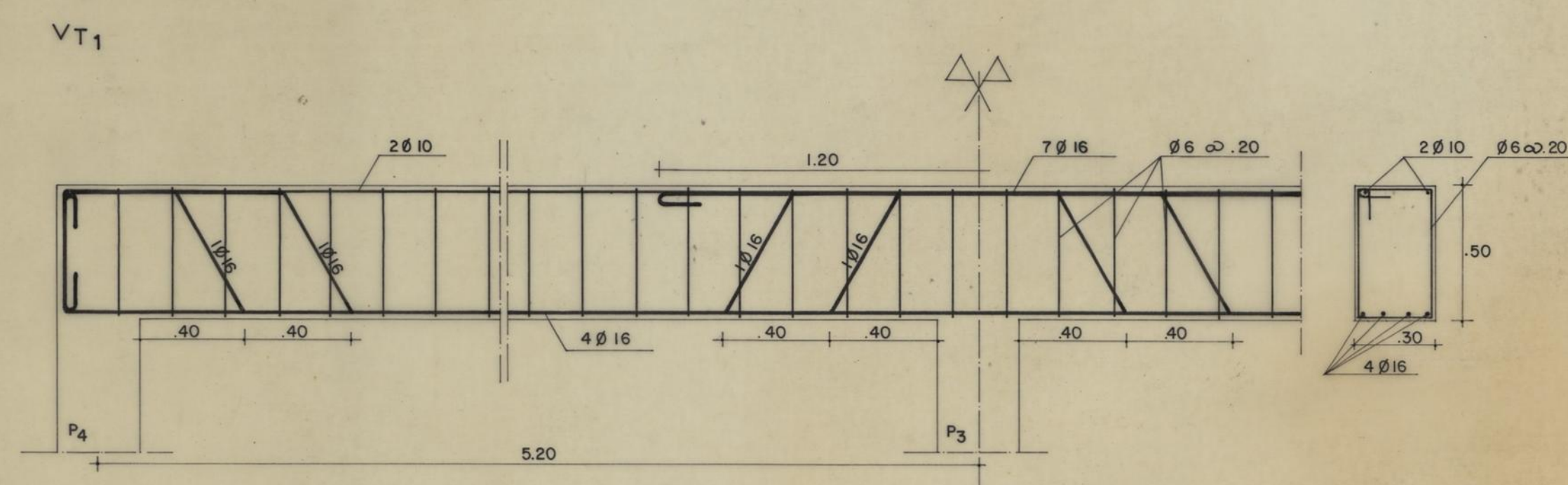
PLANTA DE FUNDAÇÕES



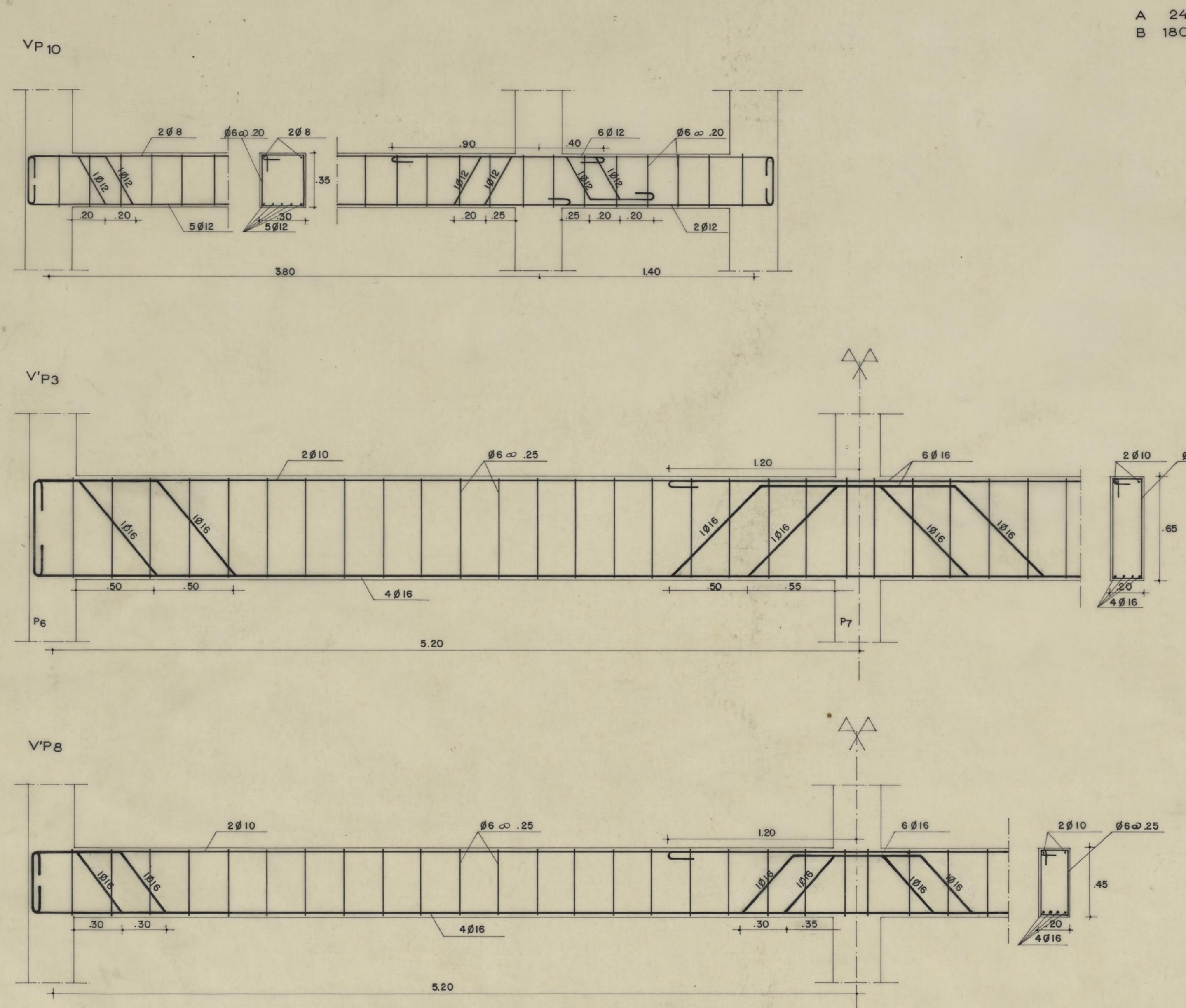
Legenda

- PAREDE DE TIJOLO FURADO DE 15cm COM UMA CINTA DE 15x20cm COM 4 Ø12 E EST. Ø6 ESPACADOS DE 15cm.
- VIGOTA PRE-FABRICADA COM M_A = 150 Kg/m
- a) SEPTO ASSENTE SOBRE 2 VIGOTAS

ZONA DO LEAL E ALTO DA FONTINHA		CMP	
1ª FASE - 41 fogos		DIREÇÃO DOS SERVIÇOS DE HABITAÇÃO	
BETÃO ARMADO		DESENHO Nº 38 1	
PLANTAS ESTRUTURAIS E PLANTA DE FUNDAÇÕES; EDIFÍCIOS 1,2 e 3		ESCALAS 1/100	
PROJETO		ANEXO	
DESENHO		DATA	

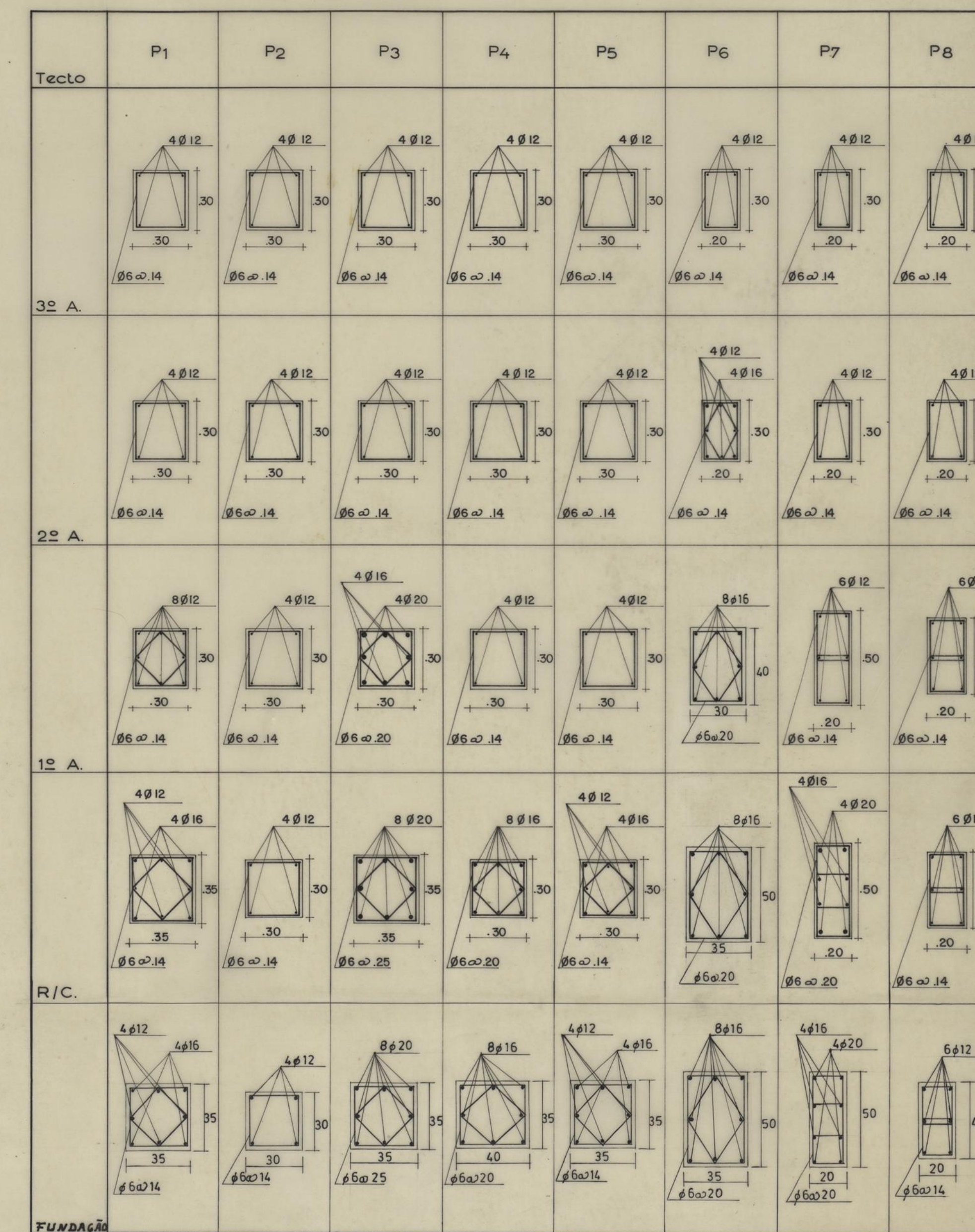


ZONA DO LEAL E ALTO DA FONTINHA 1º FASE - 41 fogos			DIRECÇÃO DOS SERVIÇOS DE HABITAÇÃO
BETÃO ARMADO			DESENHO Nº 39 2 ESCALAS 1 / 20
VIGAS DE TECTO EDIFÍCIOS 1,2e3		ANALISADO ☒	SUBSTITUÍDO ☐
ENGINEIRO CHEFE	PROVETOR <i>João António da Silva Pereira</i> REVISOR <i>B. Pereira</i>	DATA	

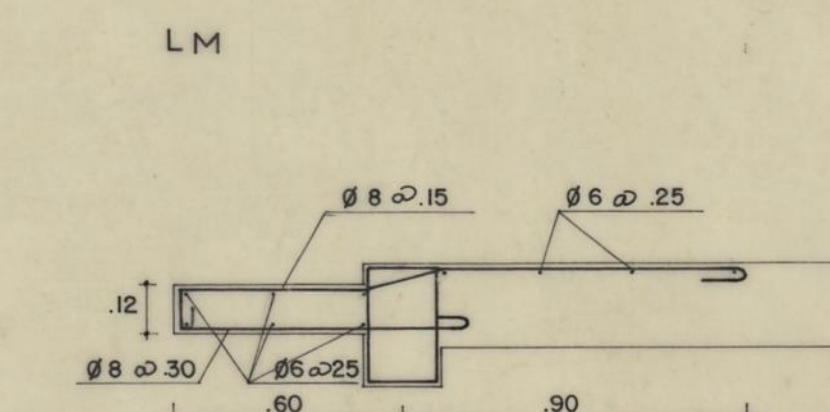
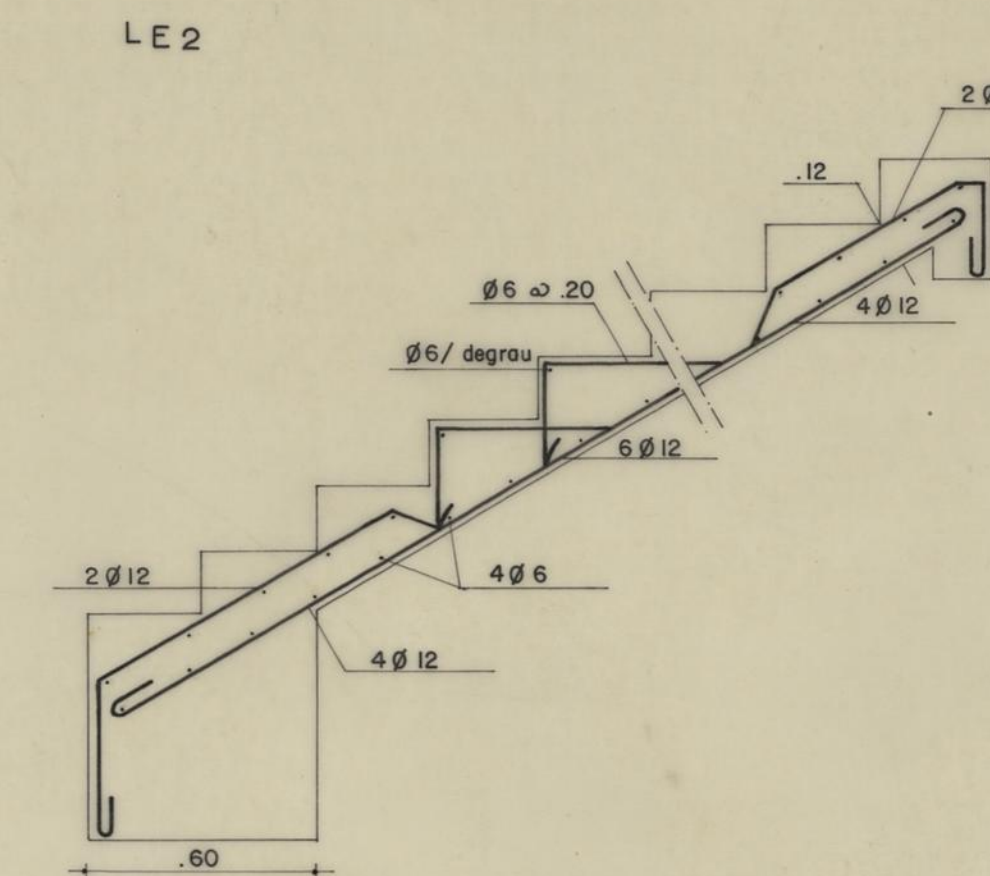
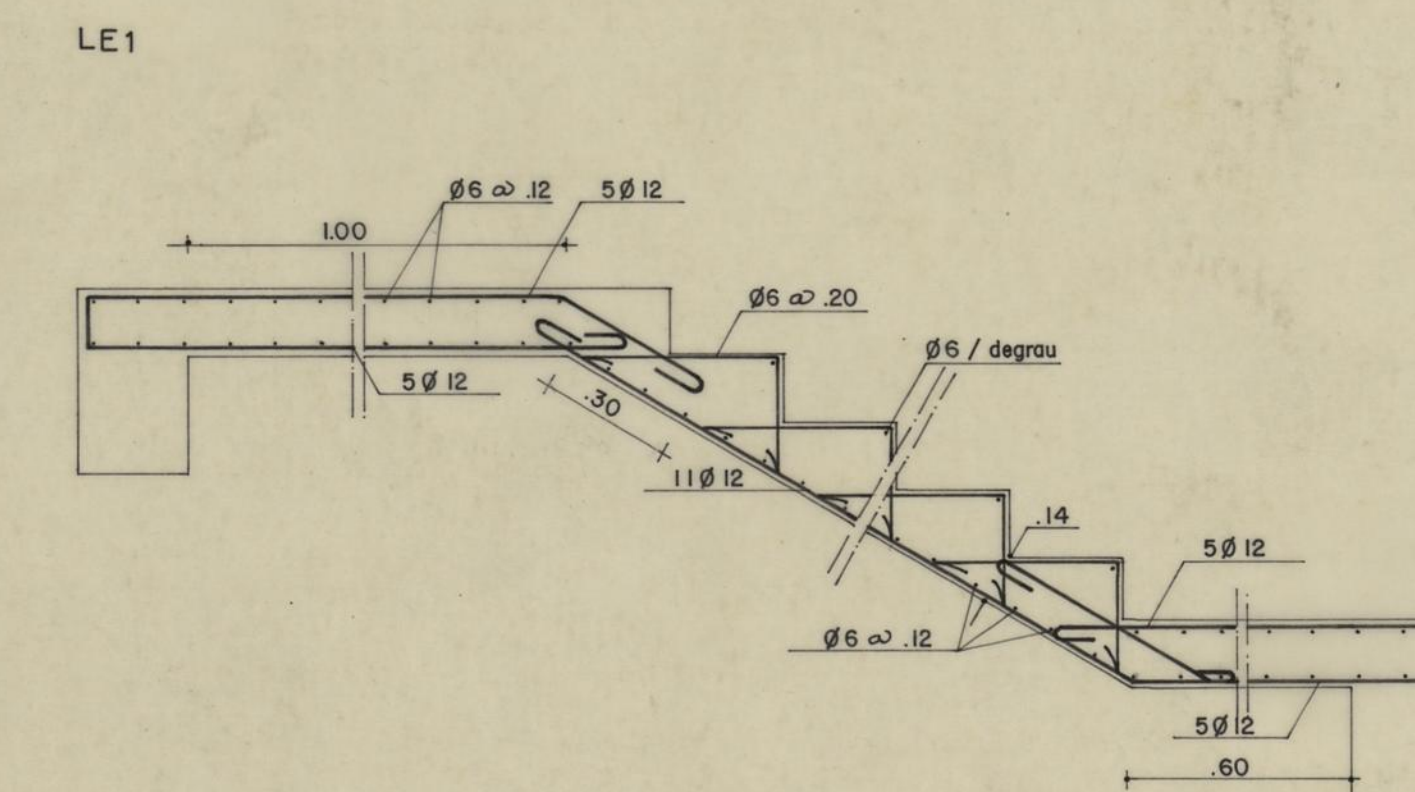


A 24
B 180

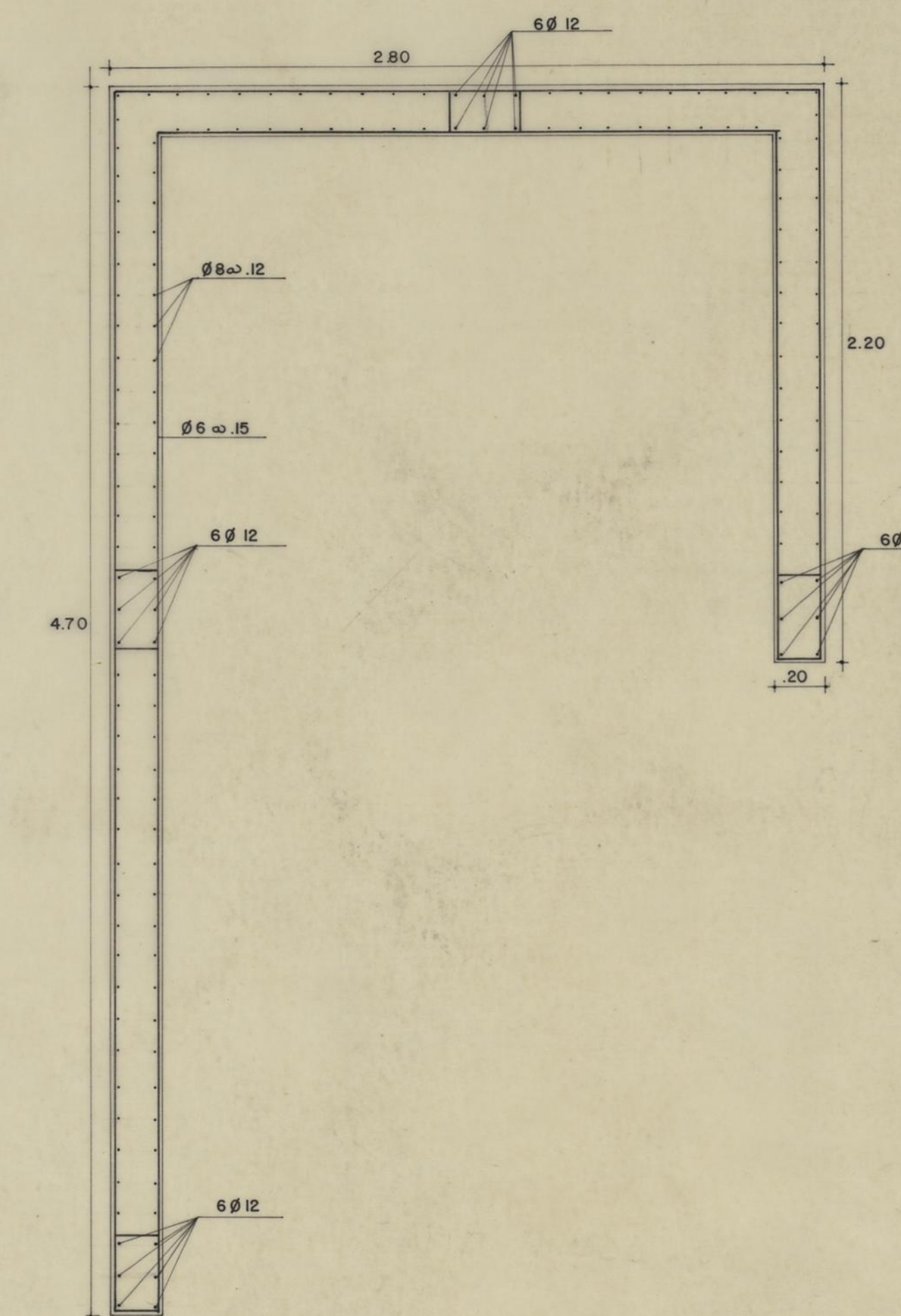
MAPA DE PILARES



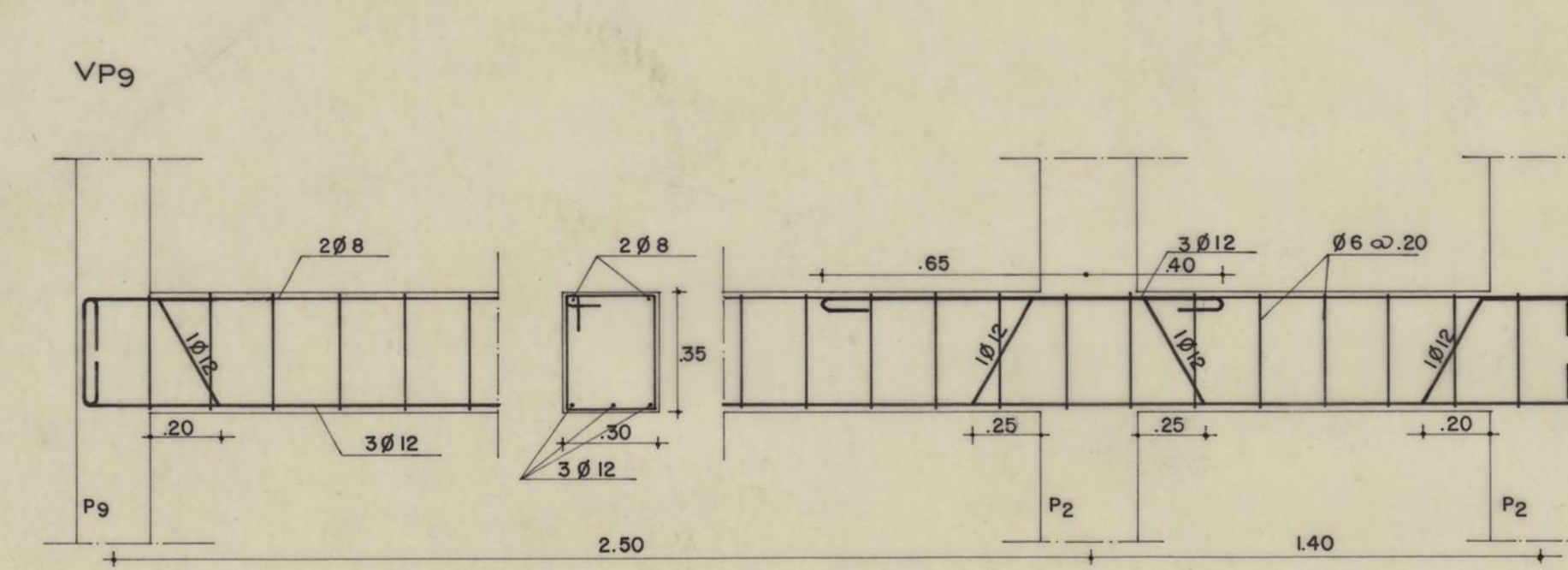
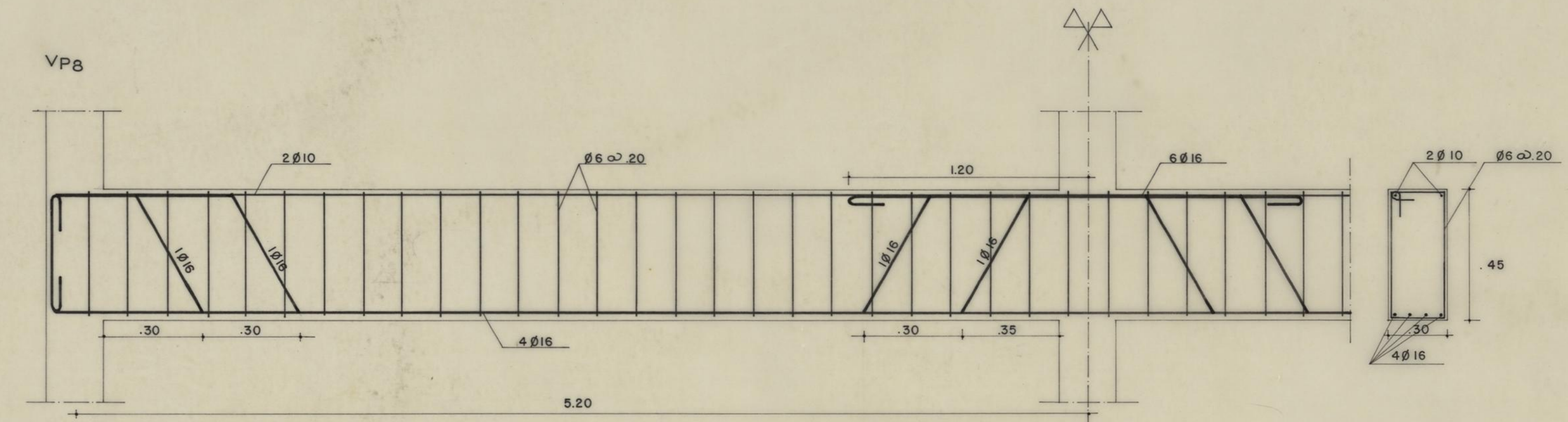
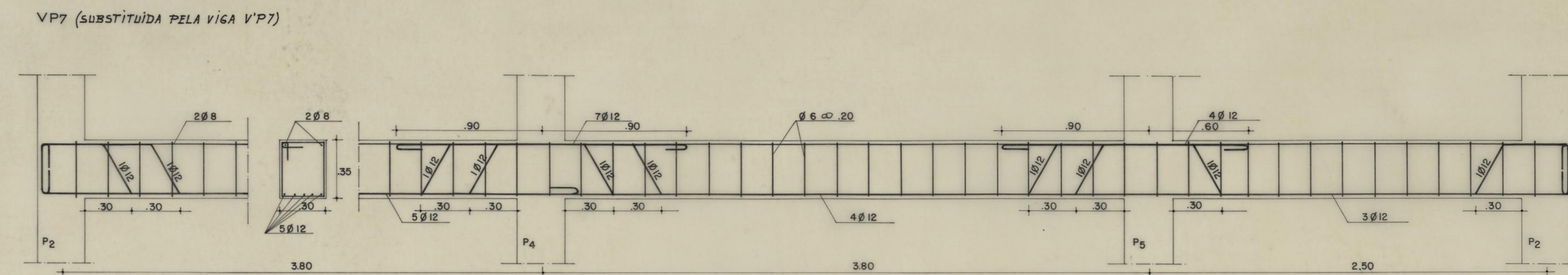
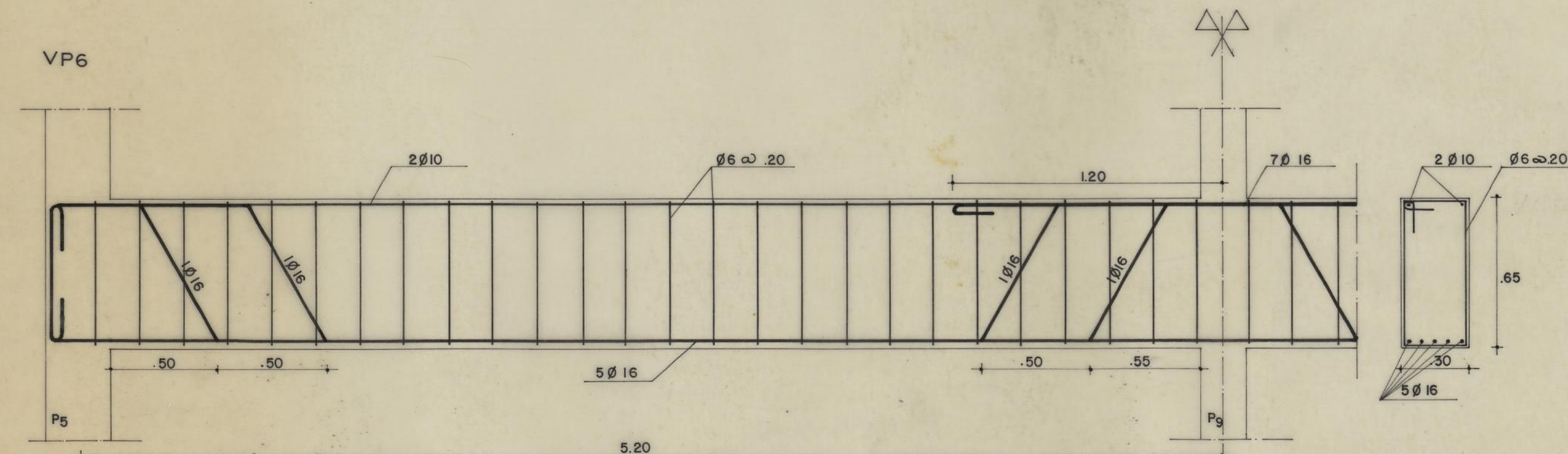
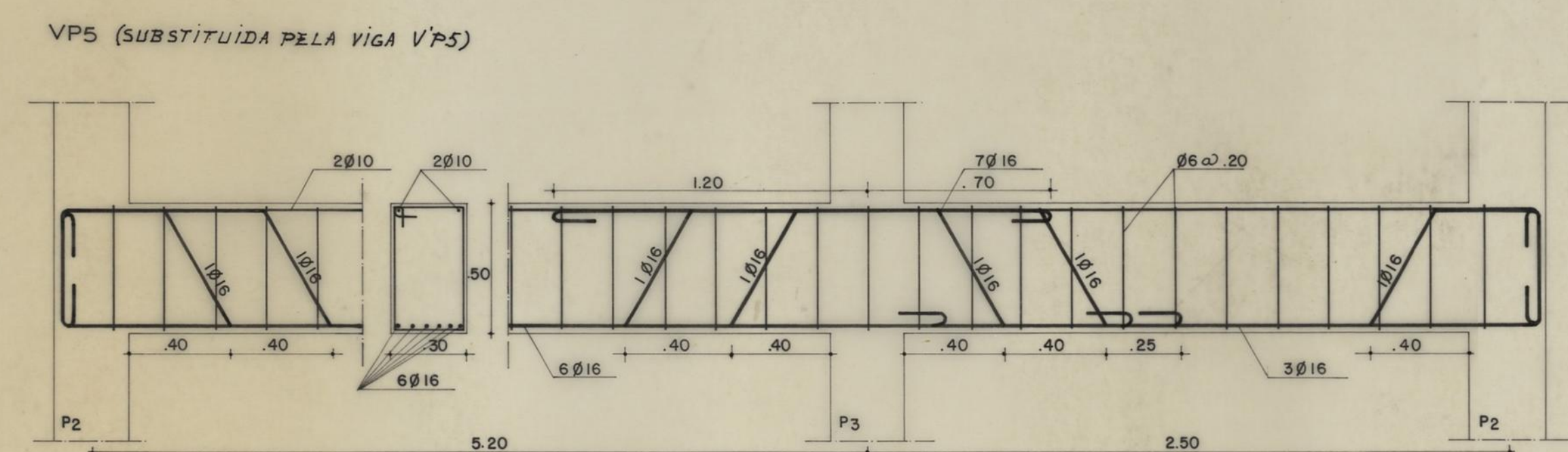
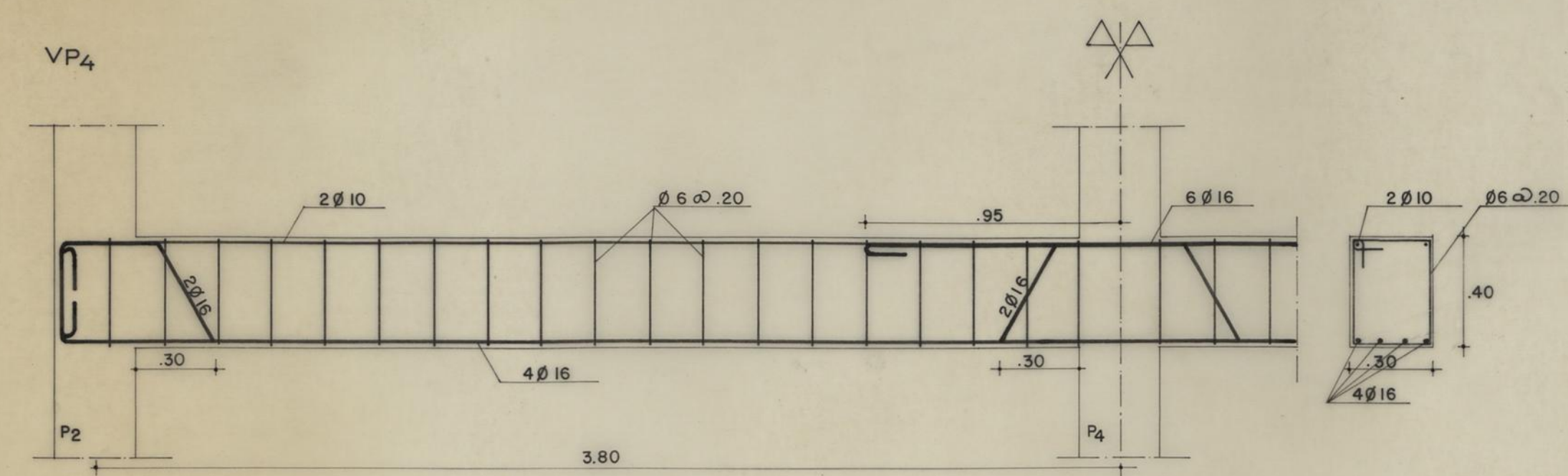
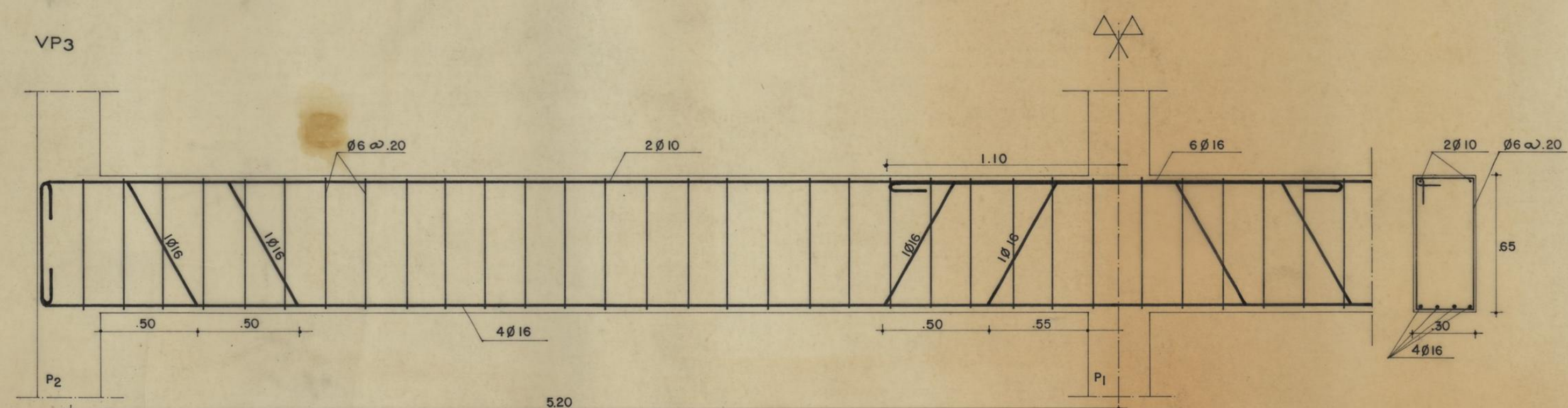
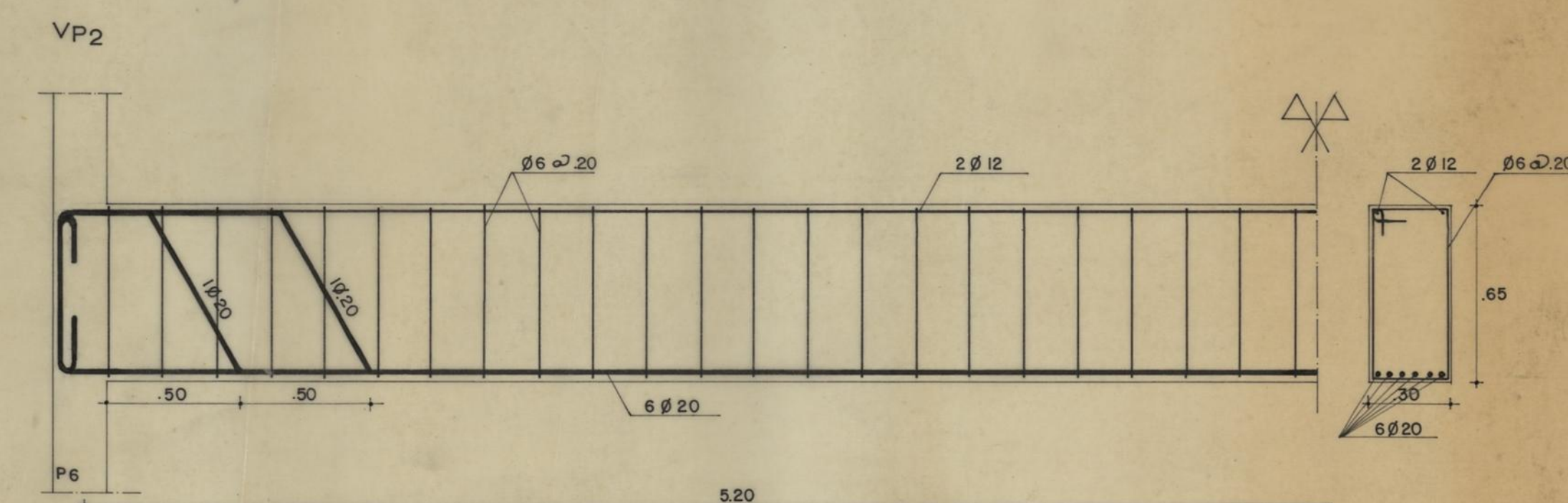
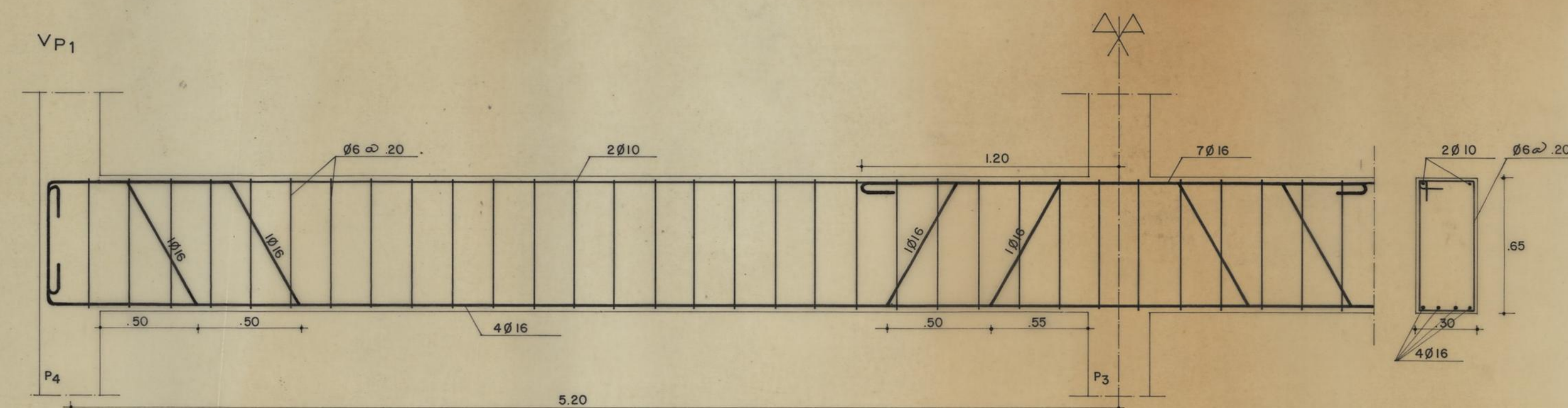
QUADRO DAS LAJES PRE-FABRICADAS HOMOLOGADAS PELO L.N.E.C.							
LAJES	ESPESSURA cm	PESO PRÓPRIO kg/m²	MOMENTO FLECTOR DE CÁLCULO	ESFORÇO CORTANTE DE CÁLCULO	TARUGOS	ARMADURA DE DISTRIBUIÇÃO	ZONAS MACIAS JUNTO AOS APOIOS
LT1	20	27.4	1.400	1.080	2 com 2Ø8	7 Ø6/m	25 cm
LT2	18	22.6	660	696	1 com 2Ø8	"	"
LP1	21	26.6	2.390	1.840	2 com 2Ø10	"	"
LP2	20	27.4	1.290	1.360	1 com 2Ø10	"	"
LP3	20	27.4	560	896	"	"	"



CAIXA DE ESCADAS

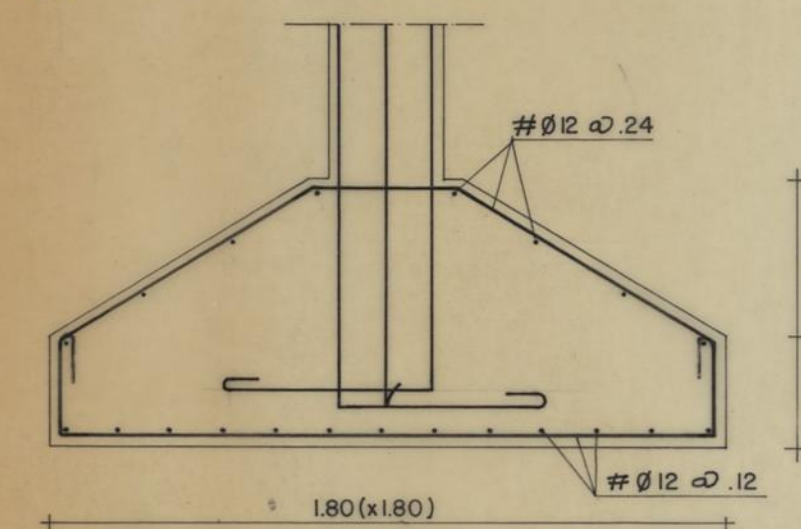


ZONA DO LEAL E ALTO DA FONTINHA 1ª FASE - 41 fogos		CMP DIRECÇÃO DOS SERVIÇOS DE HABITAÇÃO	
BETÃO ARMADO		DESENHO Nº 40 3	
VIGAS DE PAVIMENTO, MAPA DE PILARES E ESCADAS		ESCALAS 1/20	
EDIFÍCIOS 1,2 e 3		AUTADO	
PROJECÇÃO		SUBSTITUÍDO	
DATA		DATA	

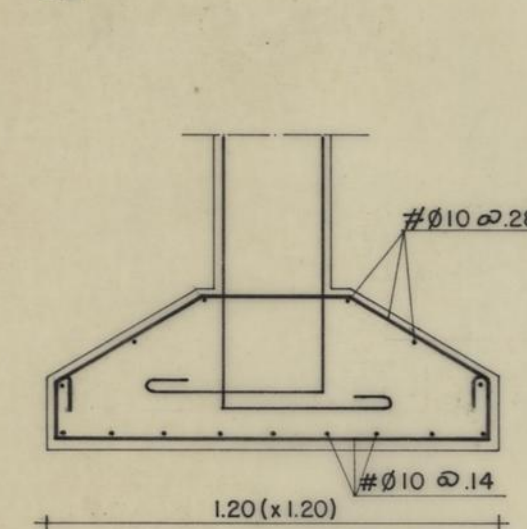


ZONA DO LÉAL E ALTO DA FONTINHA		CMP	
19 FASE - 41 fogos		DIRECÇÃO DOS SERVIÇOS DE HABITAÇÃO	
BETÃO ARMADO		DESENHO Nº 41	
VIGAS DE PAVIMENTO		ESCALAS 1/20	
EDIFÍCIOS 1,2e3		AUTORIZADO	
PROJETO	PROJETO	PROJETO	PROJETO
PROJETO	PROJETO	PROJETO	PROJETO
PROJETO	PROJETO	PROJETO	PROJETO
PROJETO	PROJETO	PROJETO	PROJETO

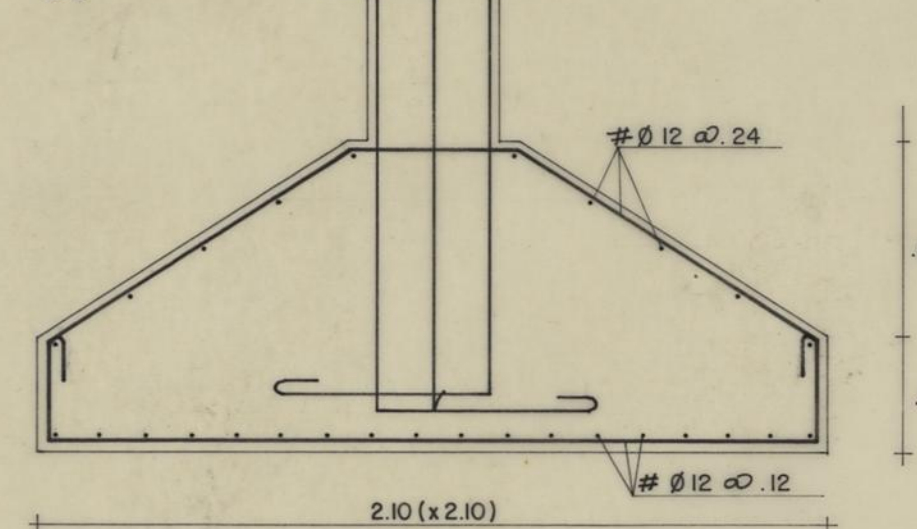
S1



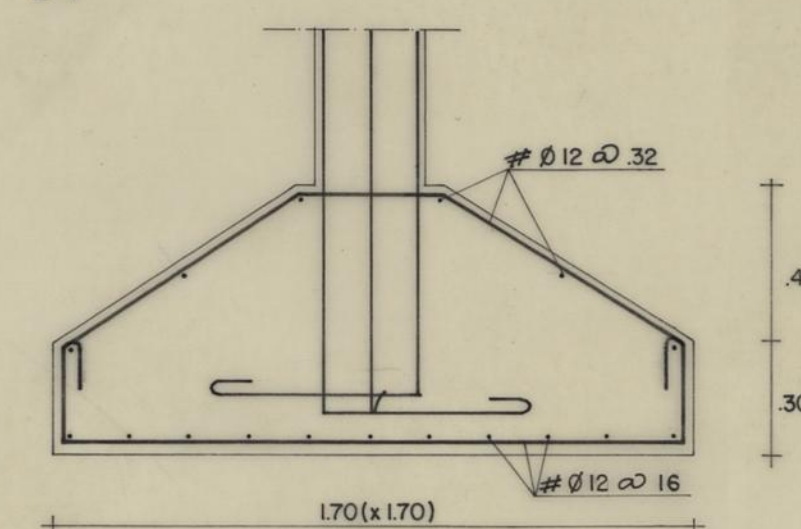
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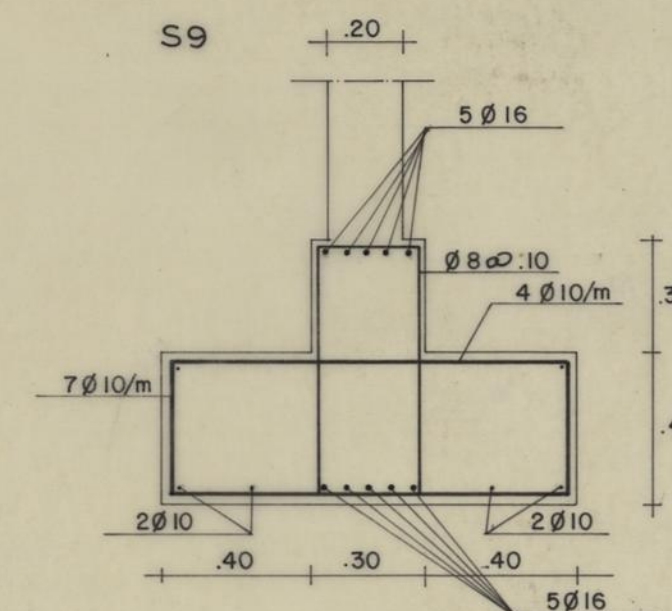
S3



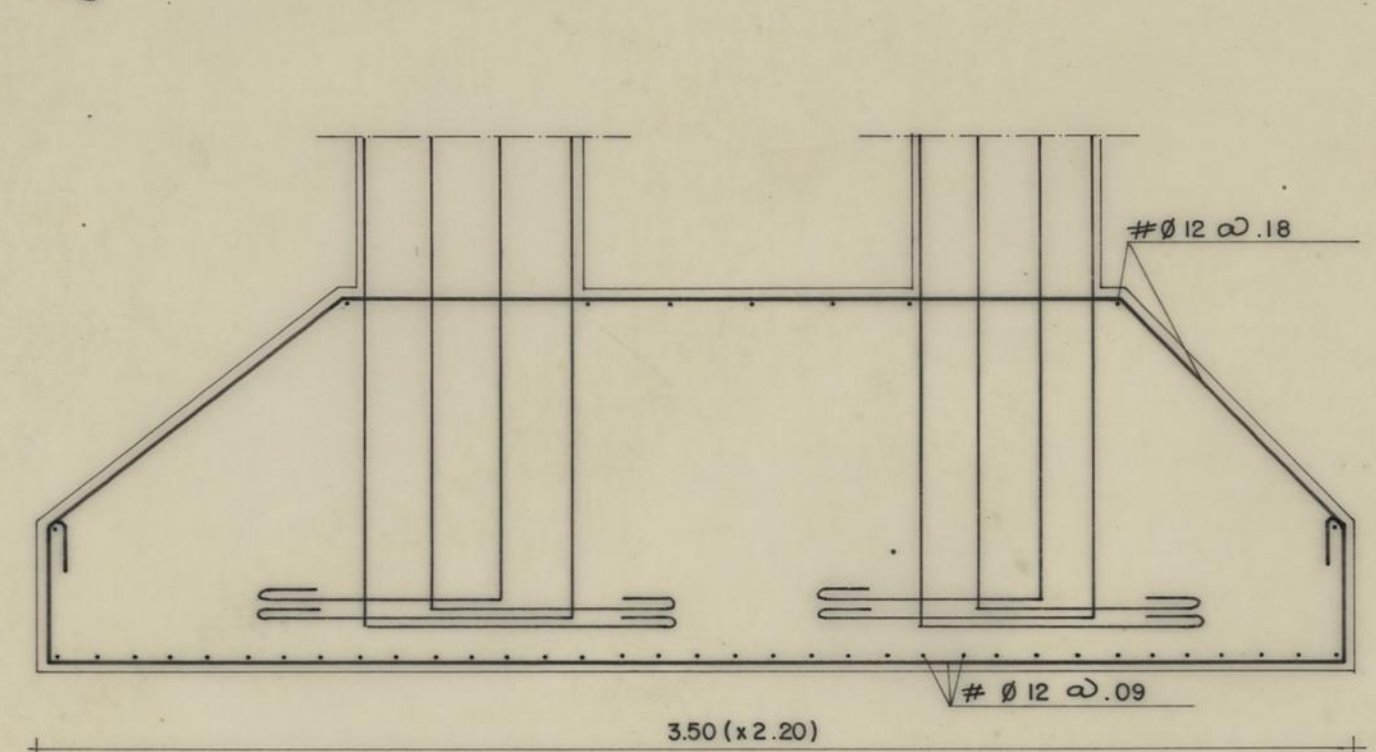
S4



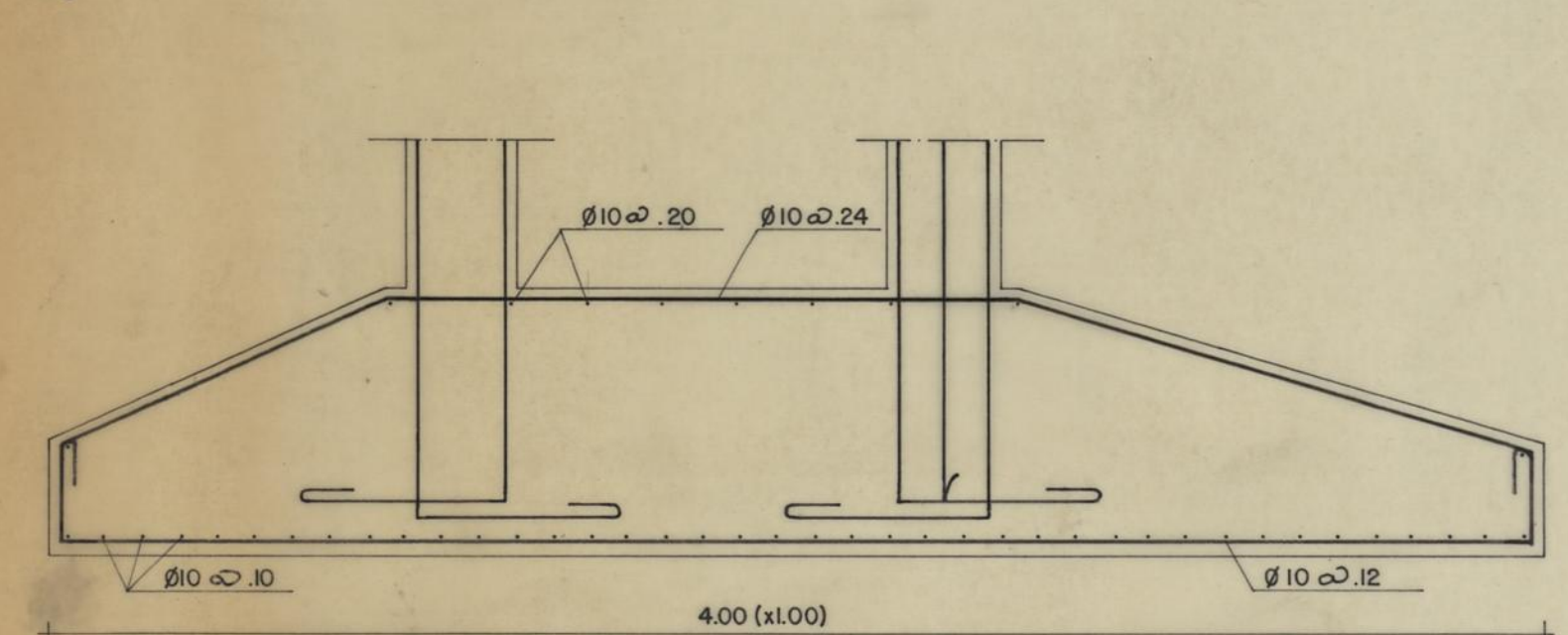
S9



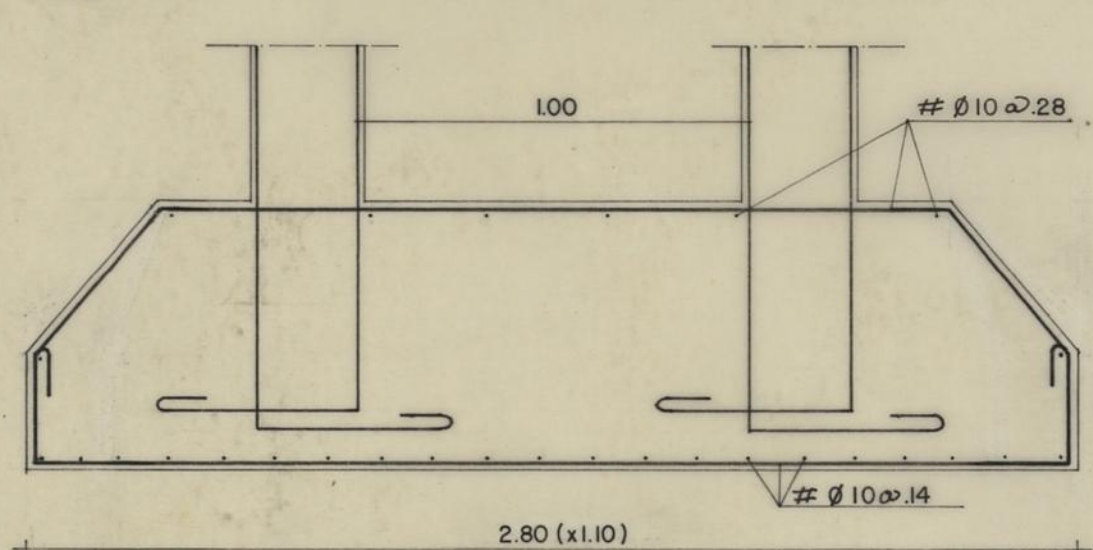
S8



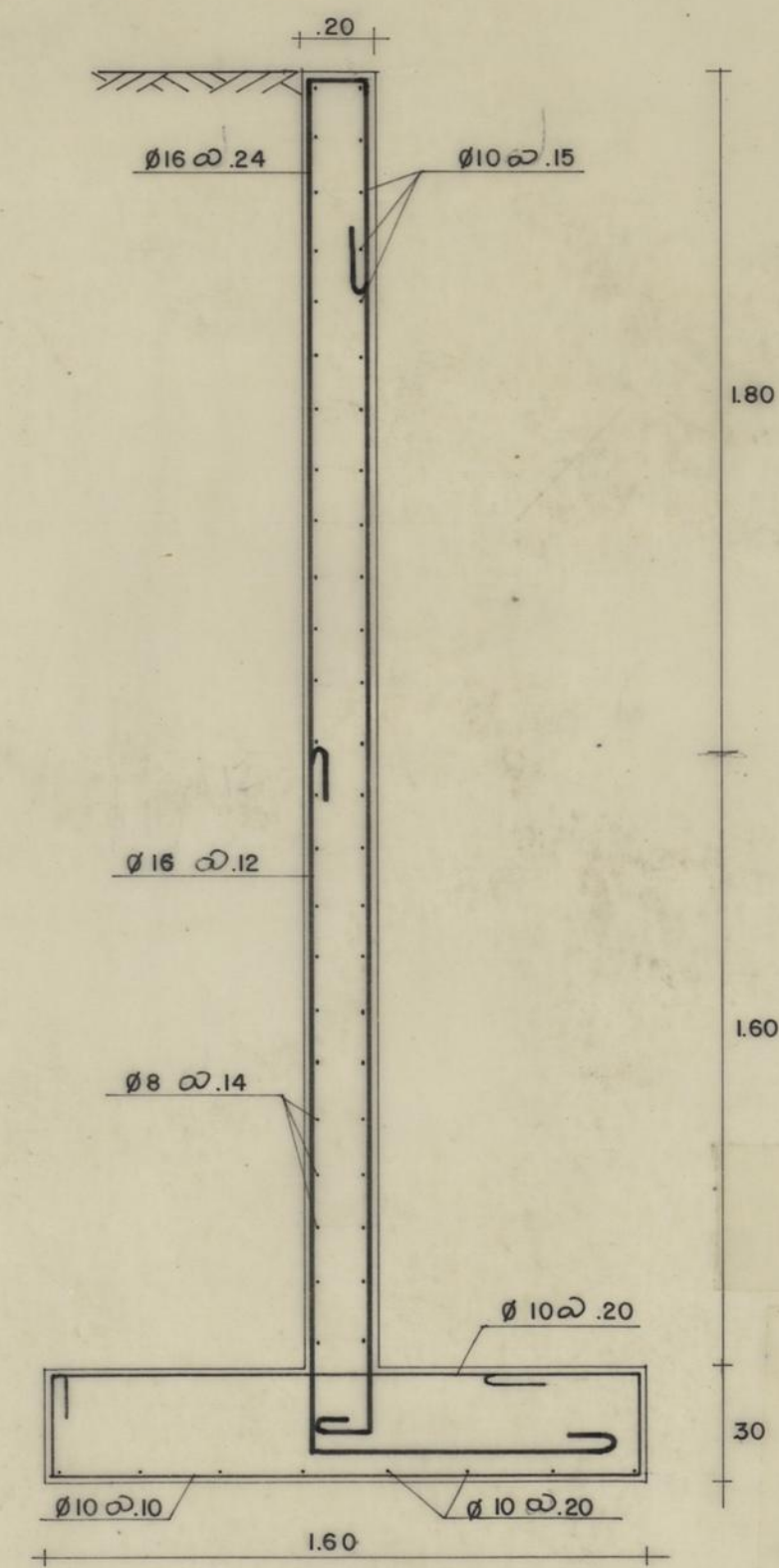
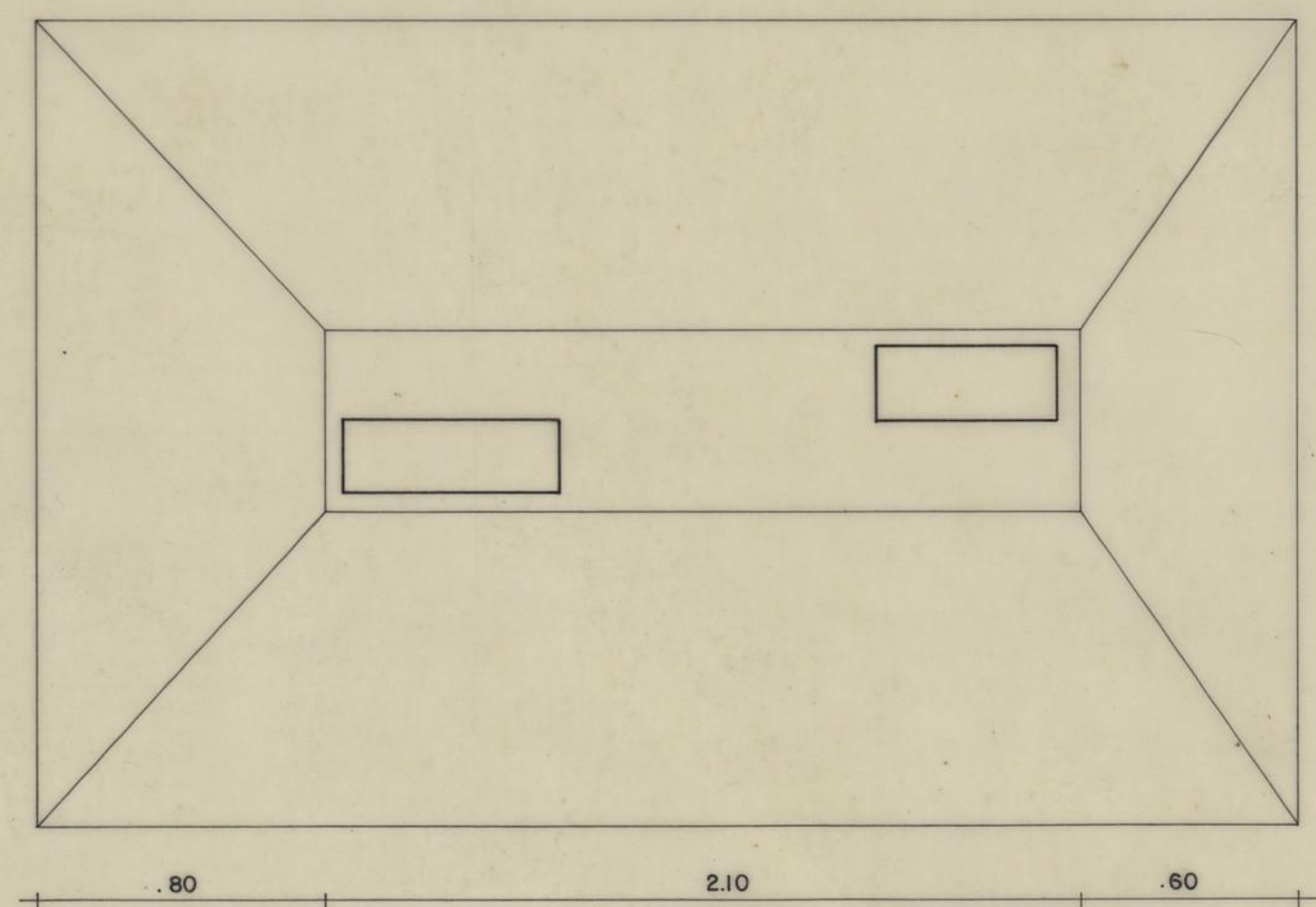
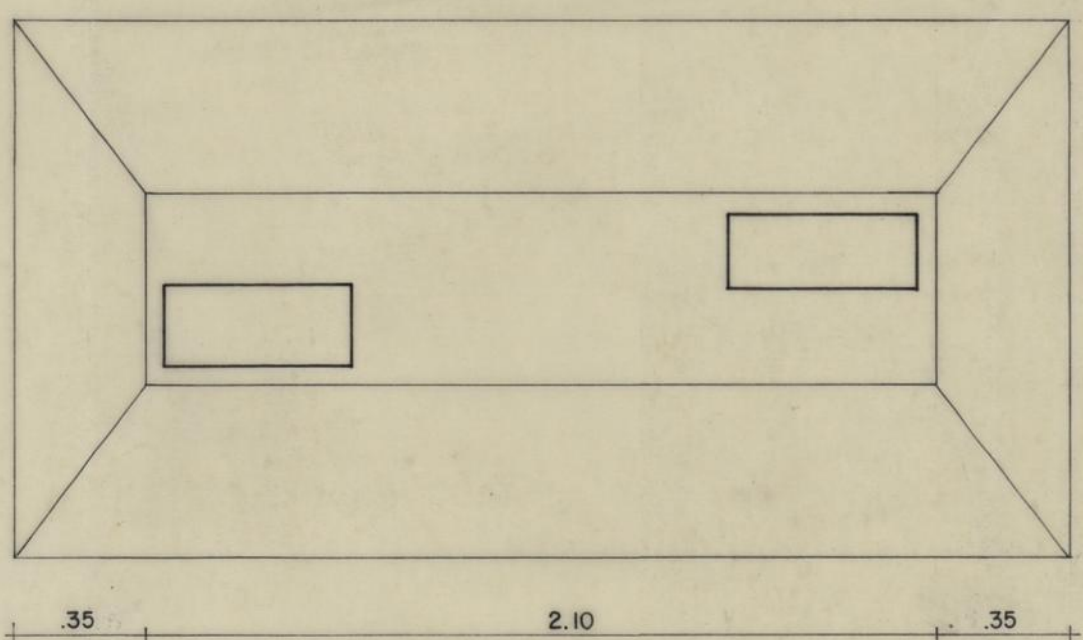
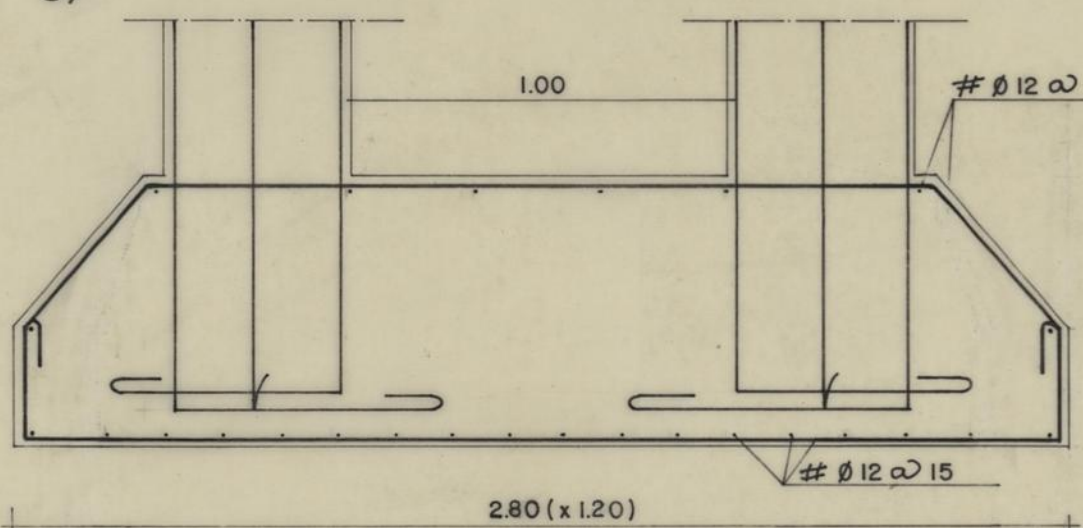
S5



S6



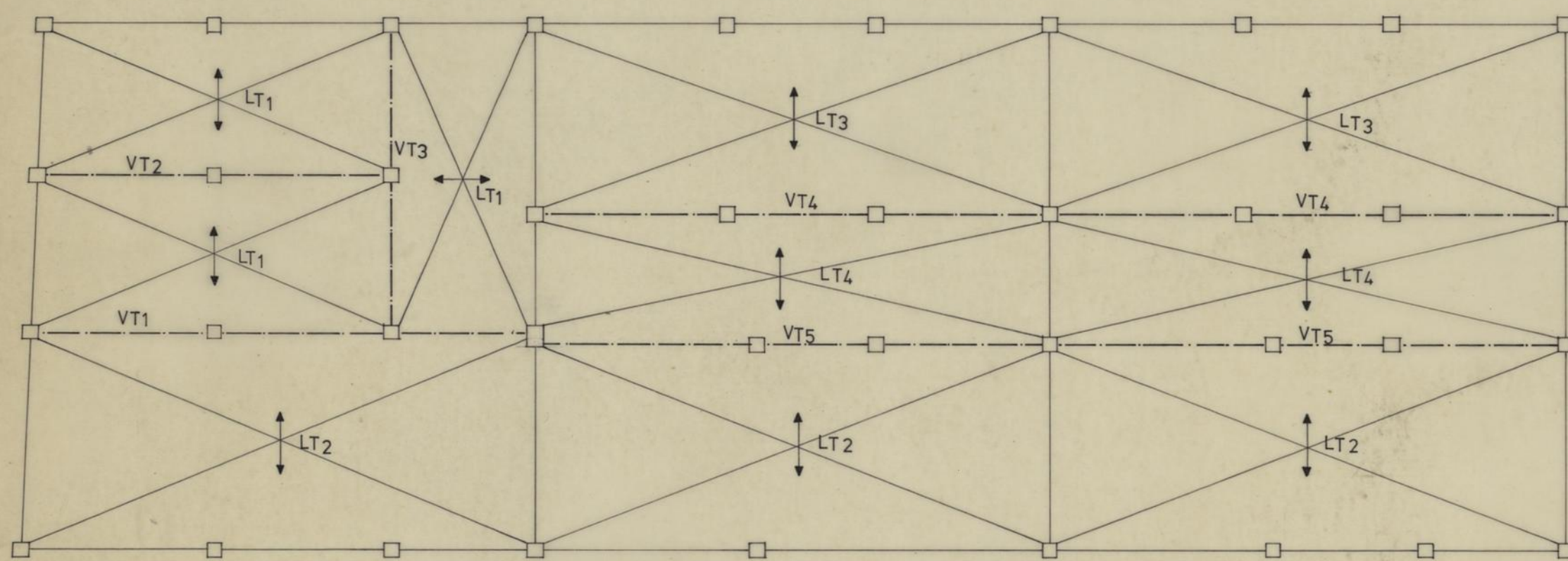
S7



É PREVISTO UM ENROCAMENTO DE 70cm
DE ESPESSURA NO TARDÓZ DO MURO

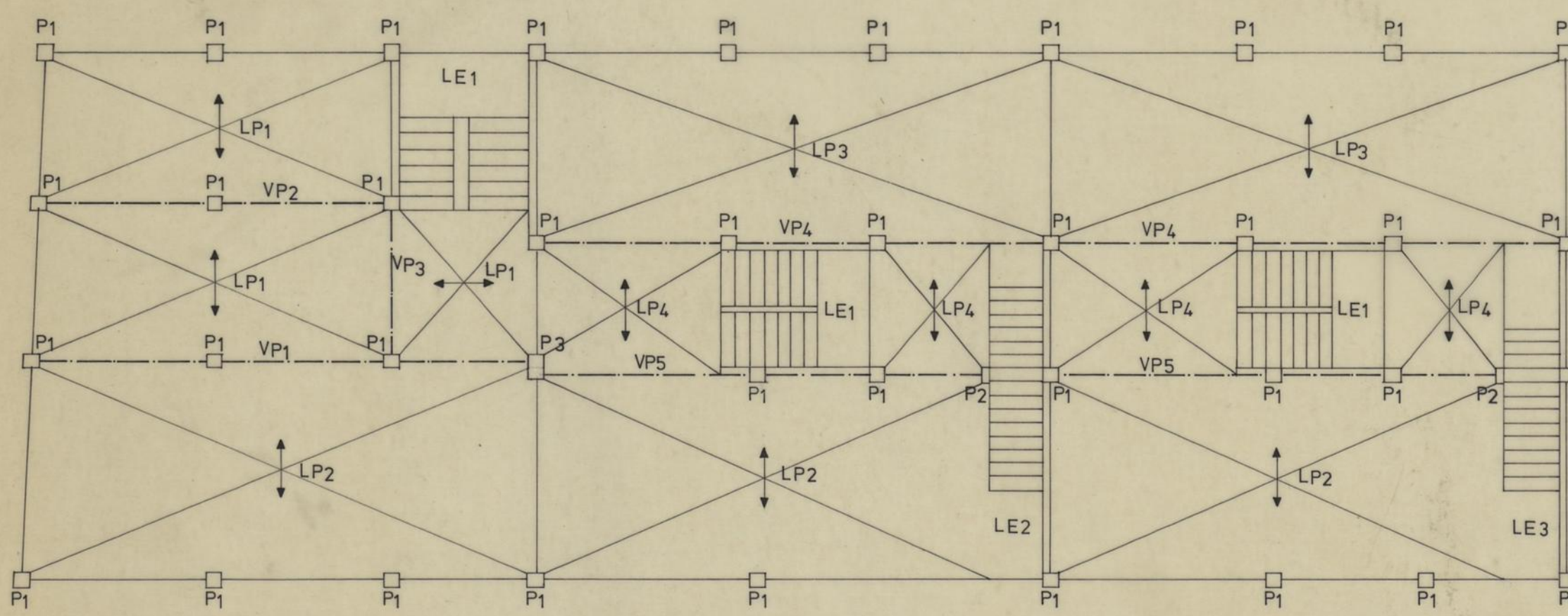
ZONA DO LEAL E ALTO DA FONTINHA		CMP	
1ª FASE - 41 fogos		DIRECÇÃO DOS SERVIÇOS DE HABITAÇÃO	
BETÃO ARMADO		DESENHO Nº	42
SAPATAS DE FUNDAÇÃO E MURO DE SU- PORTE		ESCALAS	1/20
EDIFÍCIOS 1,2e3		ANULADO	
O ENGENHEIRO CHEFE		PROJECIONADO	
		DESENHADO	B. Pereira
		DATA	

PLANTA ESTRUTURAL DO TECTO

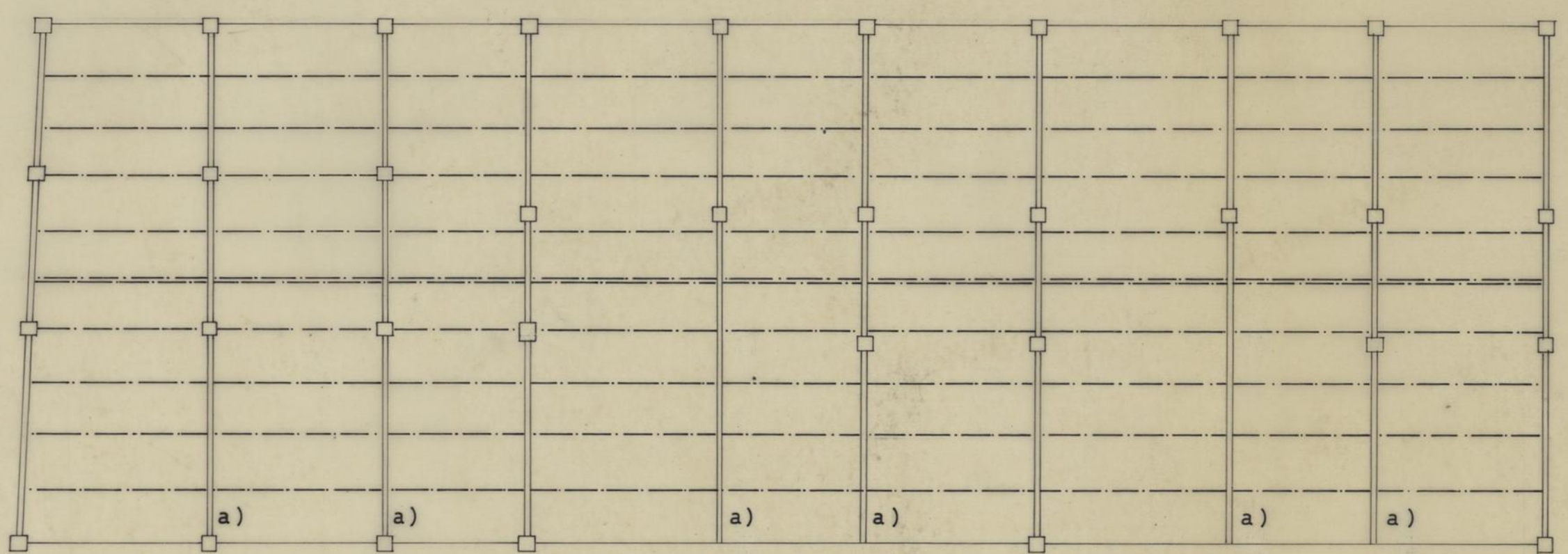


(Edifício 6)

PLANTA ESTRUTURAL DO ANDAR



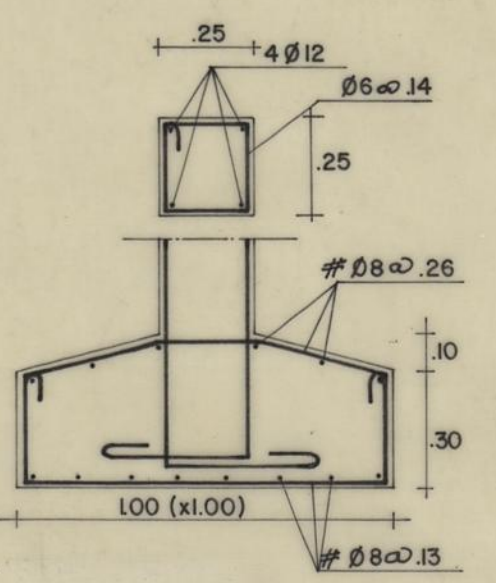
PLANTA ESTRUTURAL DA COBERTURA



LEGENDA

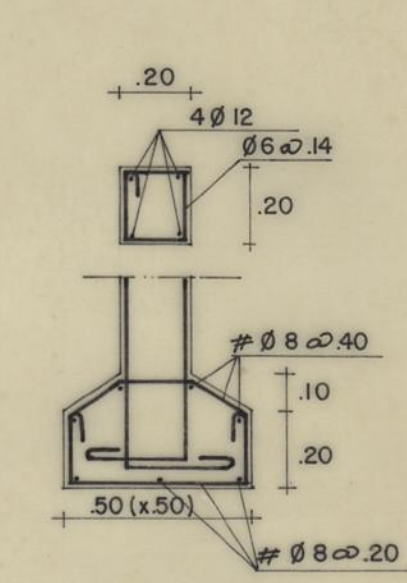
- ===== PAREDE DE TIJOLO FURADO DE 15 cm COM UMA CINTA DE 15x20 cm2 COM 4Ø12 E ESTRIBOS Ø6 ∞ 15
- VIGOTA PRÉ-FABRICADA COM MR = 130 kg/m
- a) SEPTO ASSENTE SOBRE 2 VIGOTAS

PILAR P1



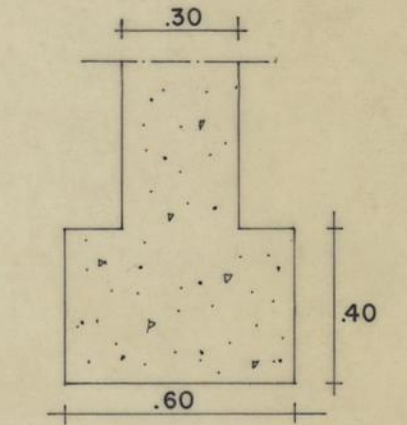
SAPATA ÚNICA

PILAR P2

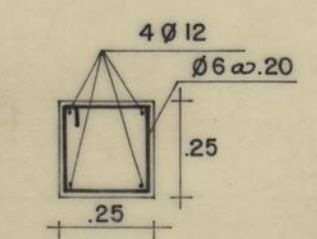


SAPATA P2

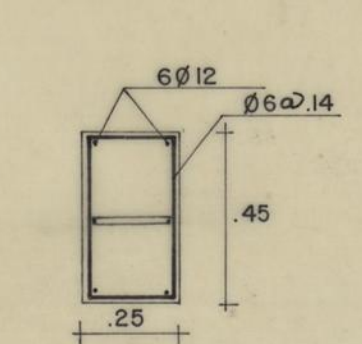
SAPATA DAS PAREDES RESISTENTES EM BETÃO SIMPLES



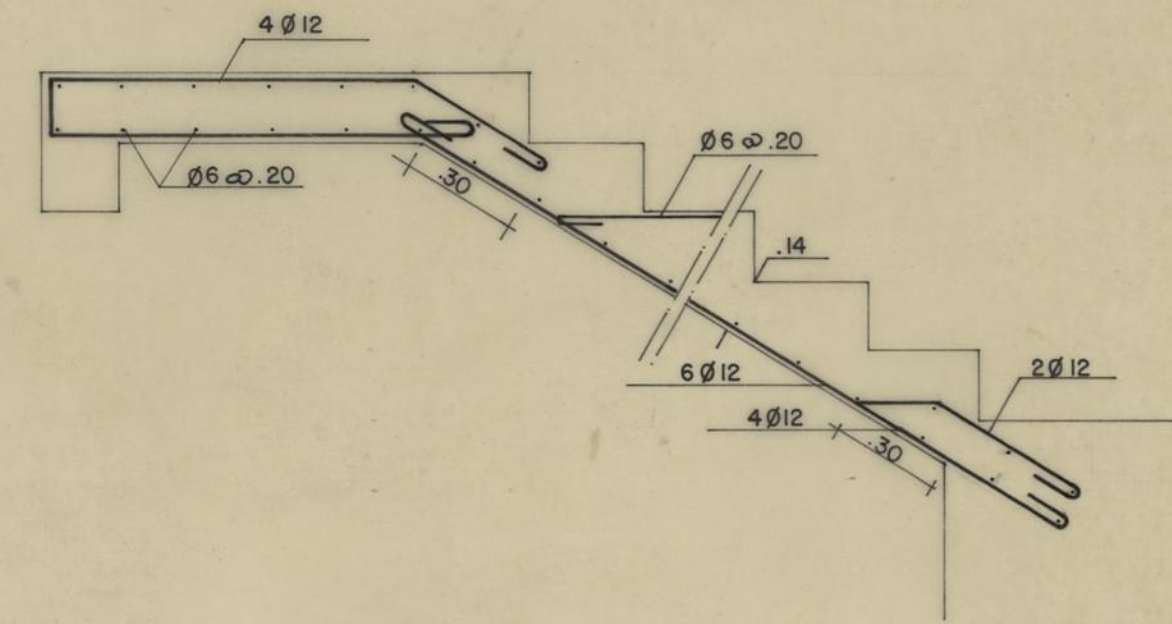
CINTA DE TRAVAMENTO



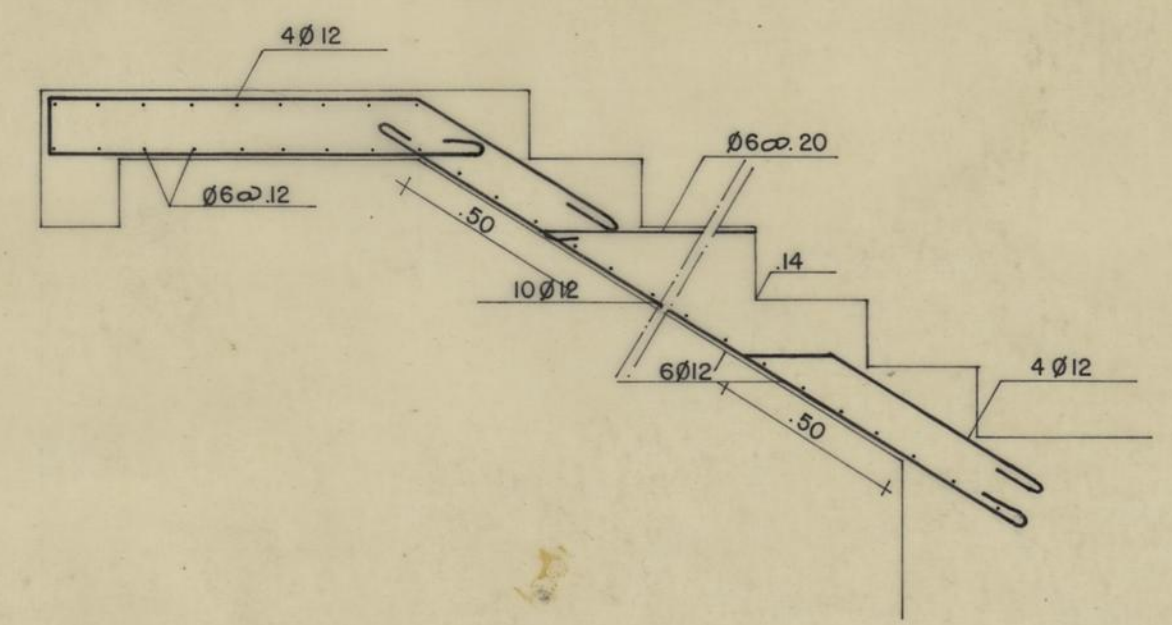
PILAR P3



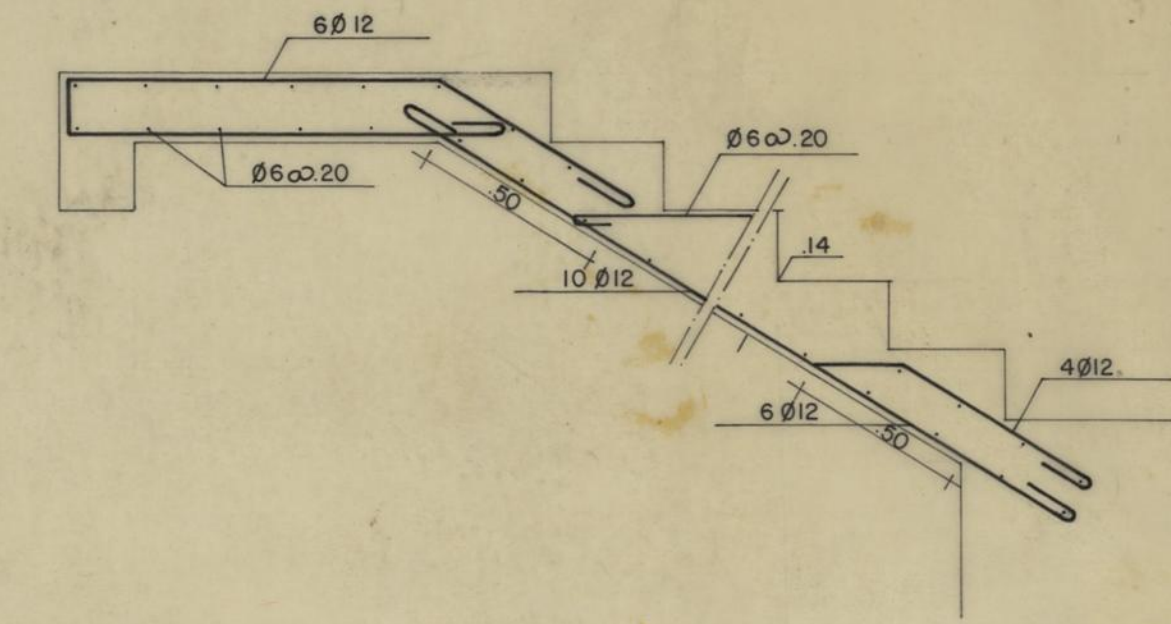
LE1



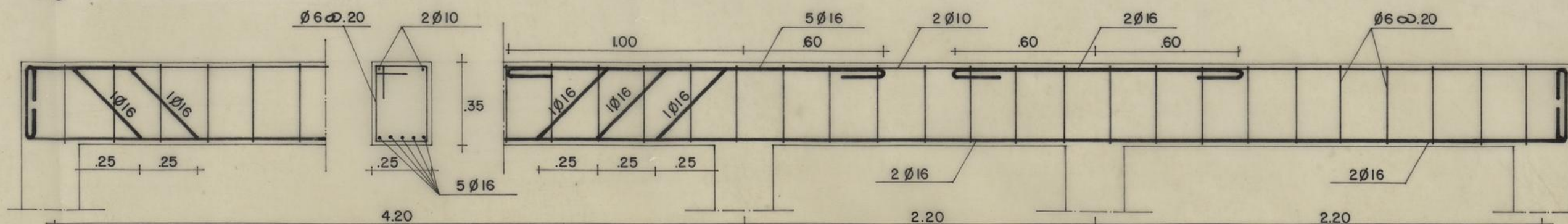
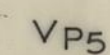
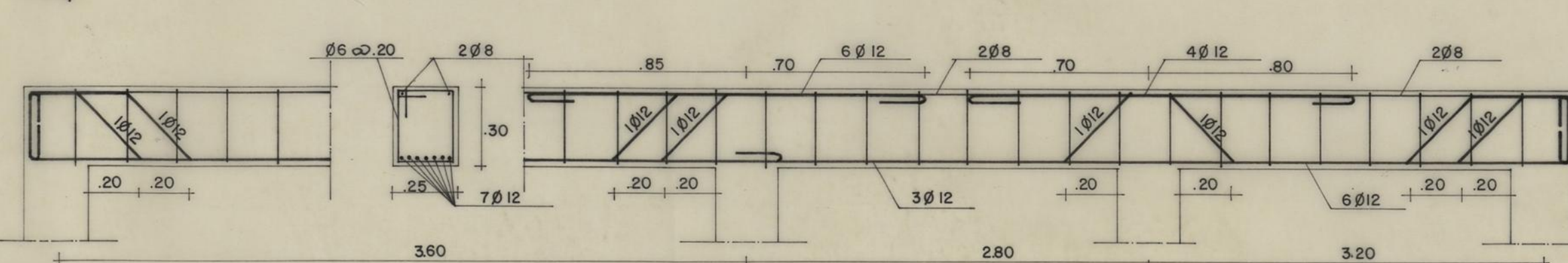
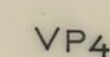
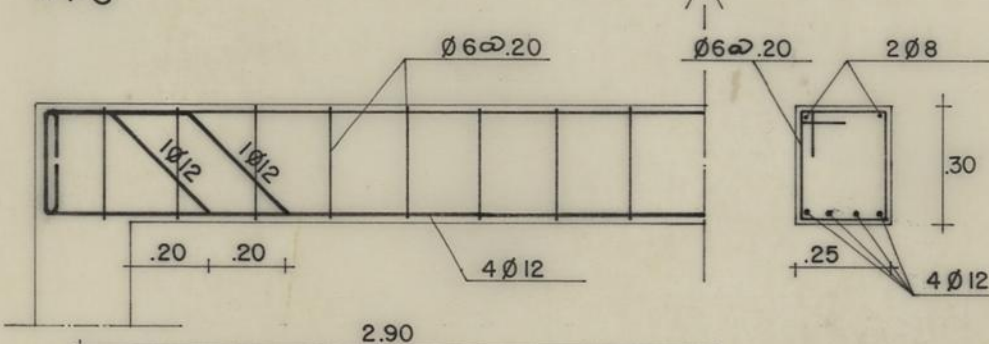
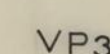
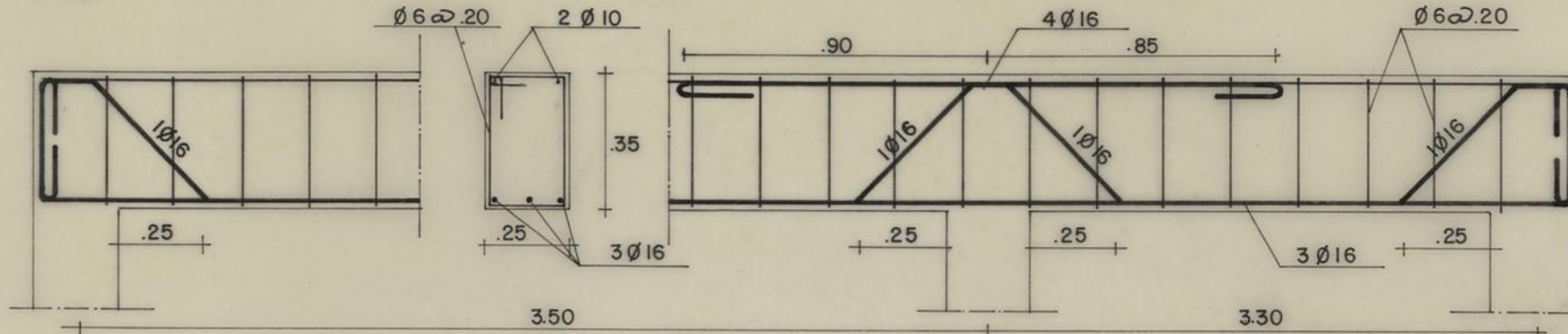
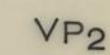
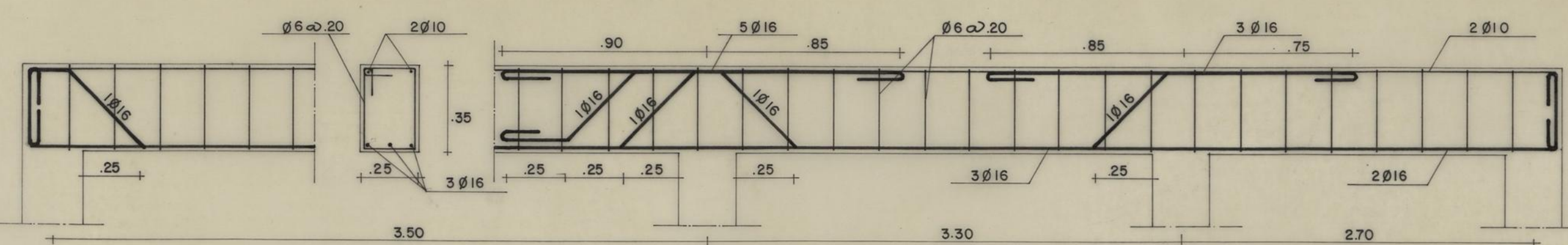
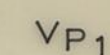
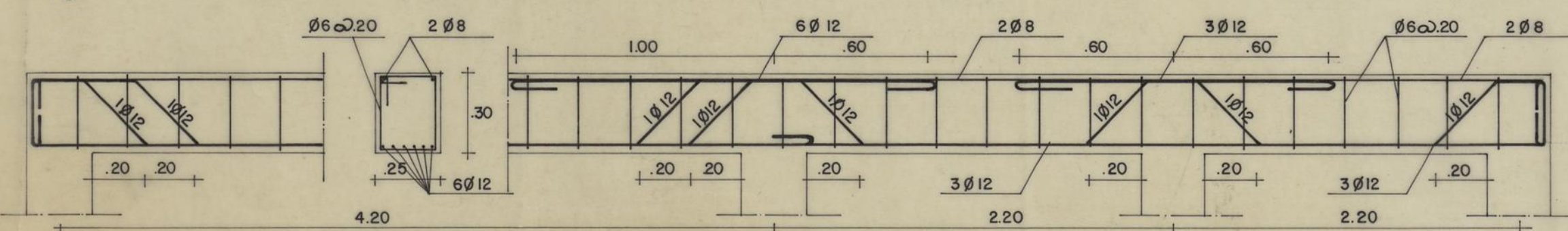
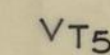
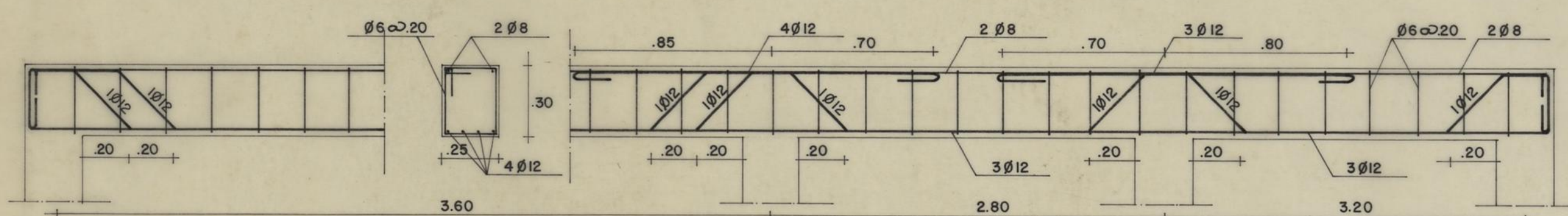
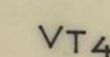
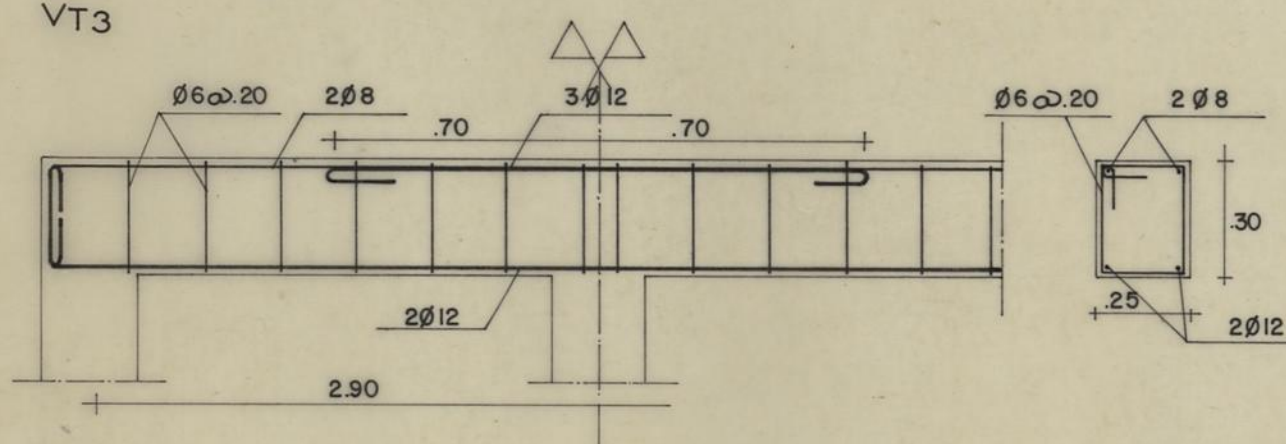
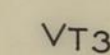
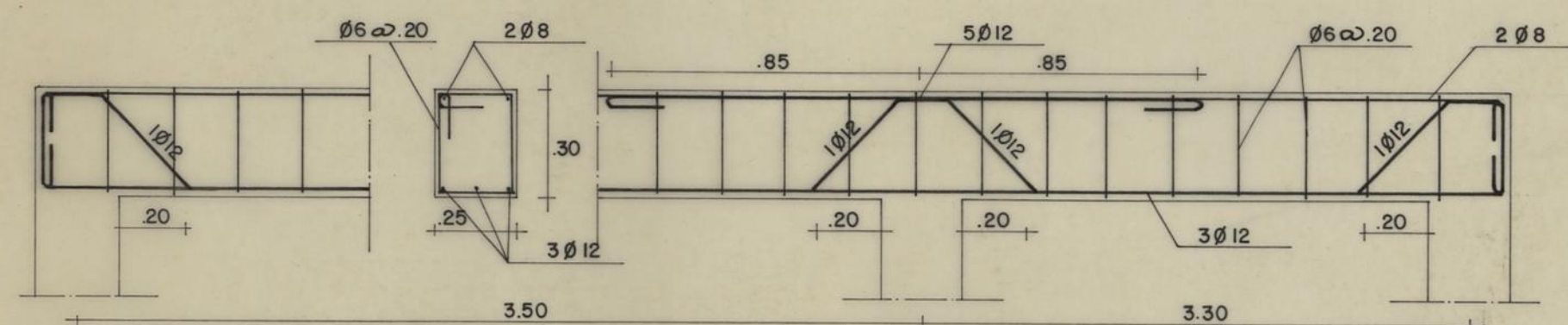
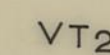
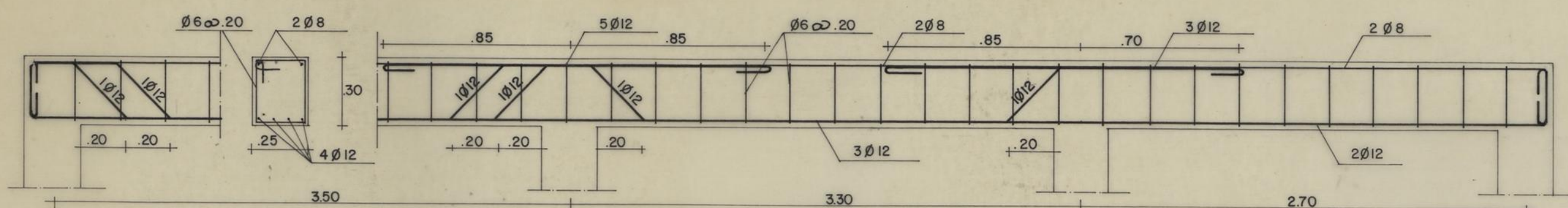
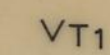
LE2



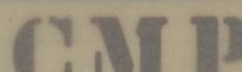
LE3



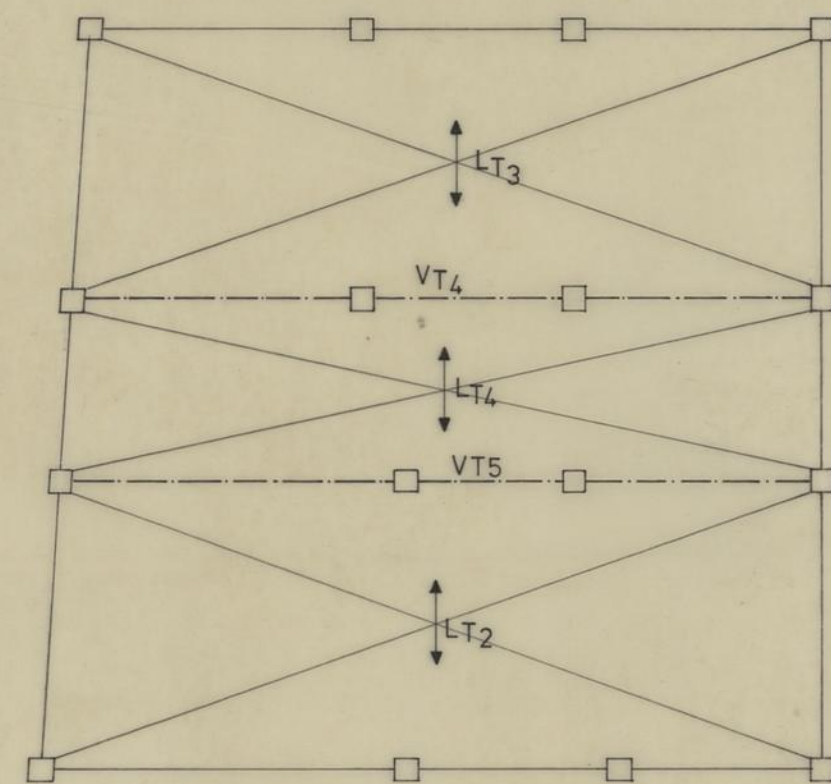
ZONA DO LEAL E ALTO DA FONTINHA		CMP	
1ª FASE - 41 fogos		DIRECÇÃO DOS SERVIÇOS DE HABITAÇÃO	
BETÃO ARMADO		DESENHO Nº	43 6
PLANTAS ESTRUTURAIS, ESCADAS, PILARES E SAPATAS		ESCALAS	1/20 , 1/100
EDIFÍCIOS 4,5e6		ARULADO	
ENGENHEIRO CHEFE		SUBSTITUÍDO	
PROJECION		DATA	
DESENHO			



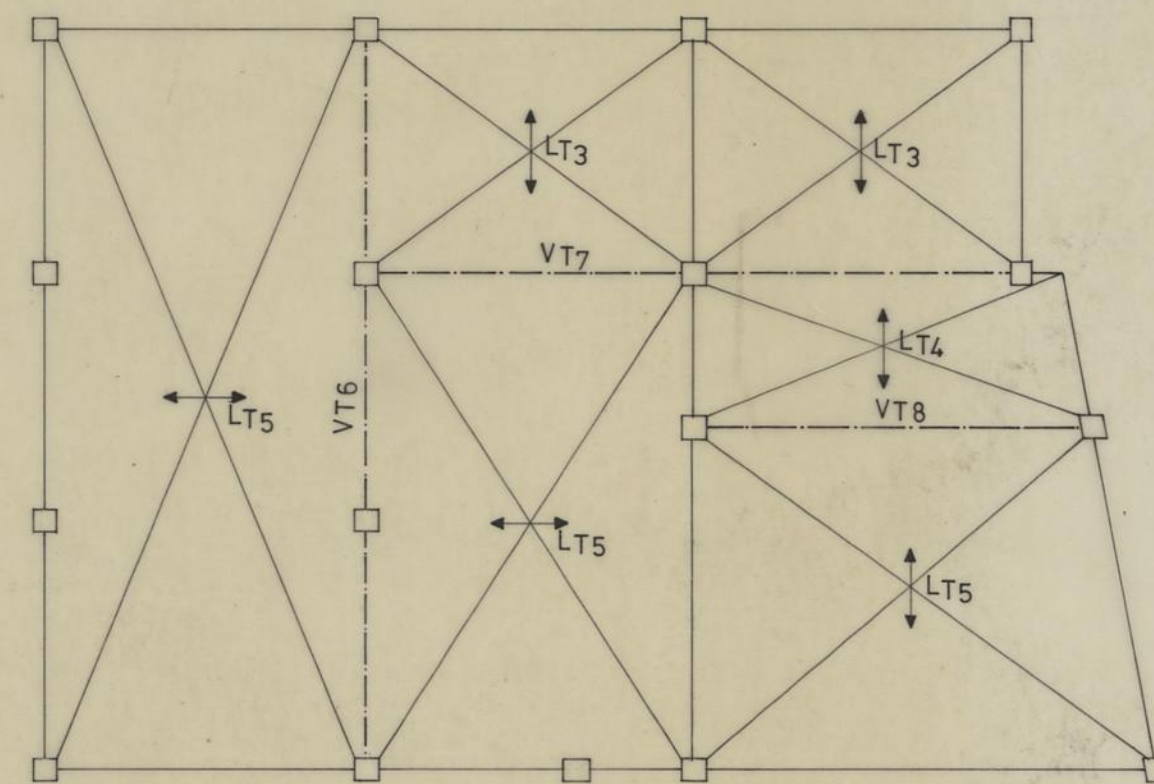
LAJES	ESPESSURA cm	PESO PRÓPRIO kg/m ²	MOMENTO FLECTOR DE CÁLCULO	ESFORÇO CORTANTE DE CÁLCULO	TARUGOS	ARMADURA DE DISTRIBUIÇÃO	ZONAS MACIÇAS JUNTO AOS APOIOS
LT1	15	210	370	510	1 com 2 Ø8	7 Ø6/m	25 cm
LT2	18	226	732	732	2 "	"	"
LT3	"	"	560	640	1 "	"	"
LT4	15	210	230	400	1 "	"	"
LP1	18	226	700	965	1 com 2 Ø10	"	"
LP2	"	"	1330	1330	2 "	"	"
LP3	"	"	1020	1170	1 "	"	"
LP4	"	"	440	770	1 "	"	"
LT5	"	"	930	825	2 com 2 Ø8	"	"
LP5	20	274	1400	1247	2 com 2 Ø10	"	"

ZONA DO LEAL E ALTO DA FONTINHA			
1ª FASE - 41 fogos			
BETÃO ARMADO		DIRECÇÃO DOS SERVIÇOS DE HABITAÇÃO	
VIGAS		DESENHO Nº	44 7
EDIFÍCIOS 45e6		ESCALAS	1/20
O ENGENHEIRO CHEFE	PROVISTO	ANULADO	
	DESENHADO	SUBSTITUÍDO	
	<i>João Ilídio da Silva Gomes</i> <i>E. Pereira</i>		

PLANTA ESTRUTURAL DO TECTO

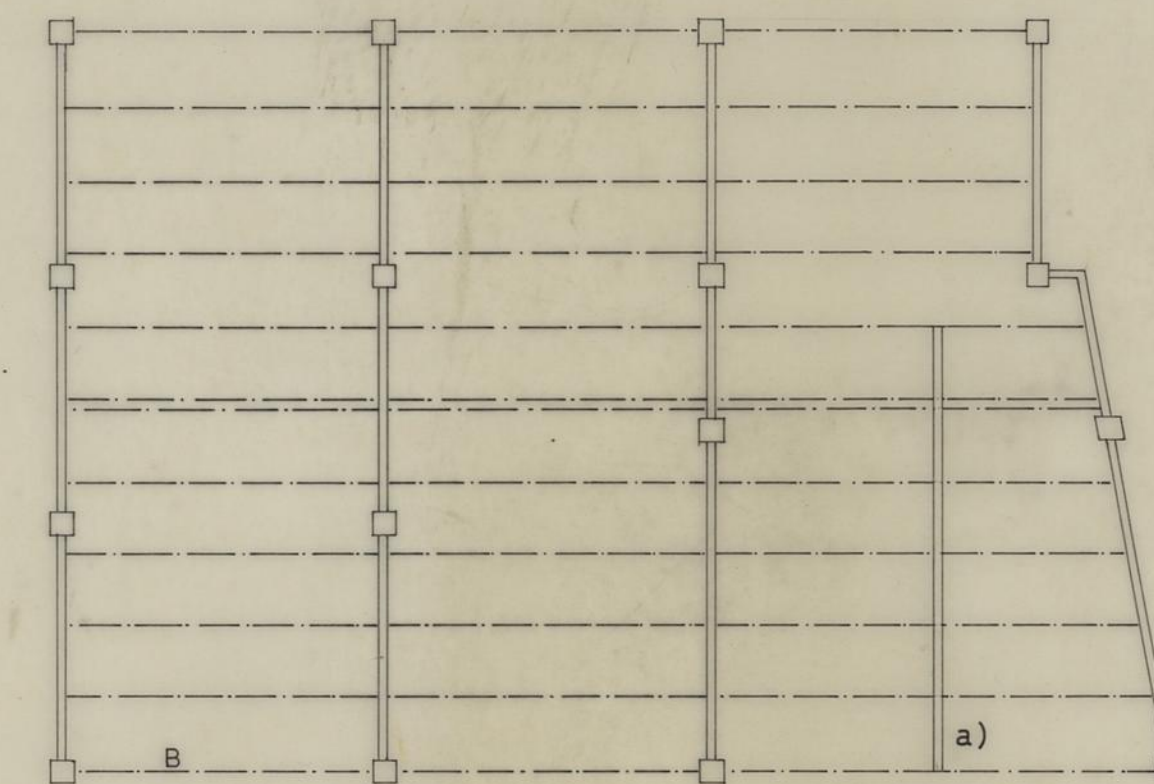
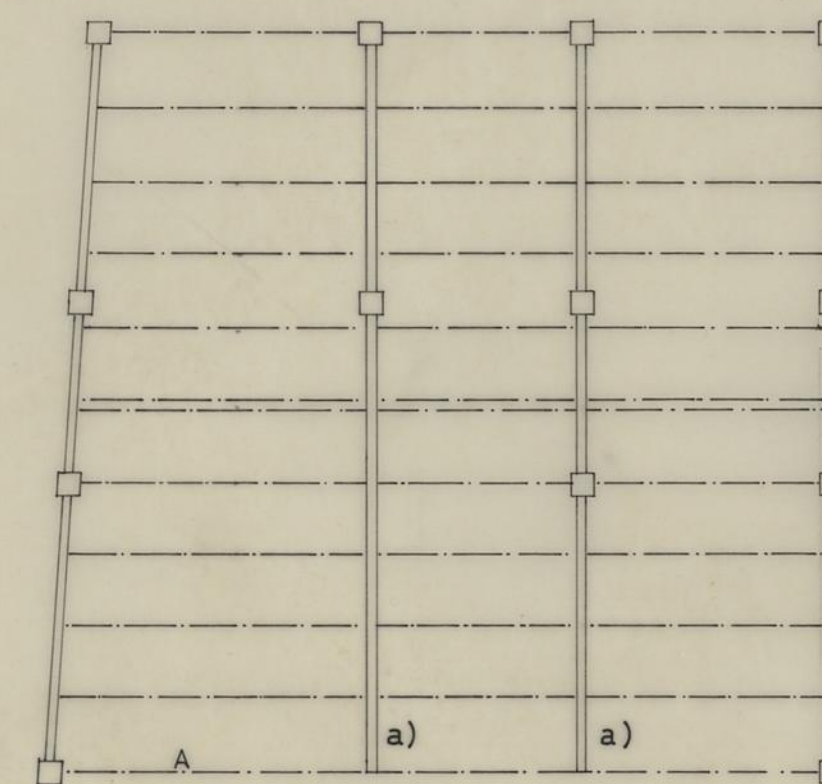


(Edifício 5)

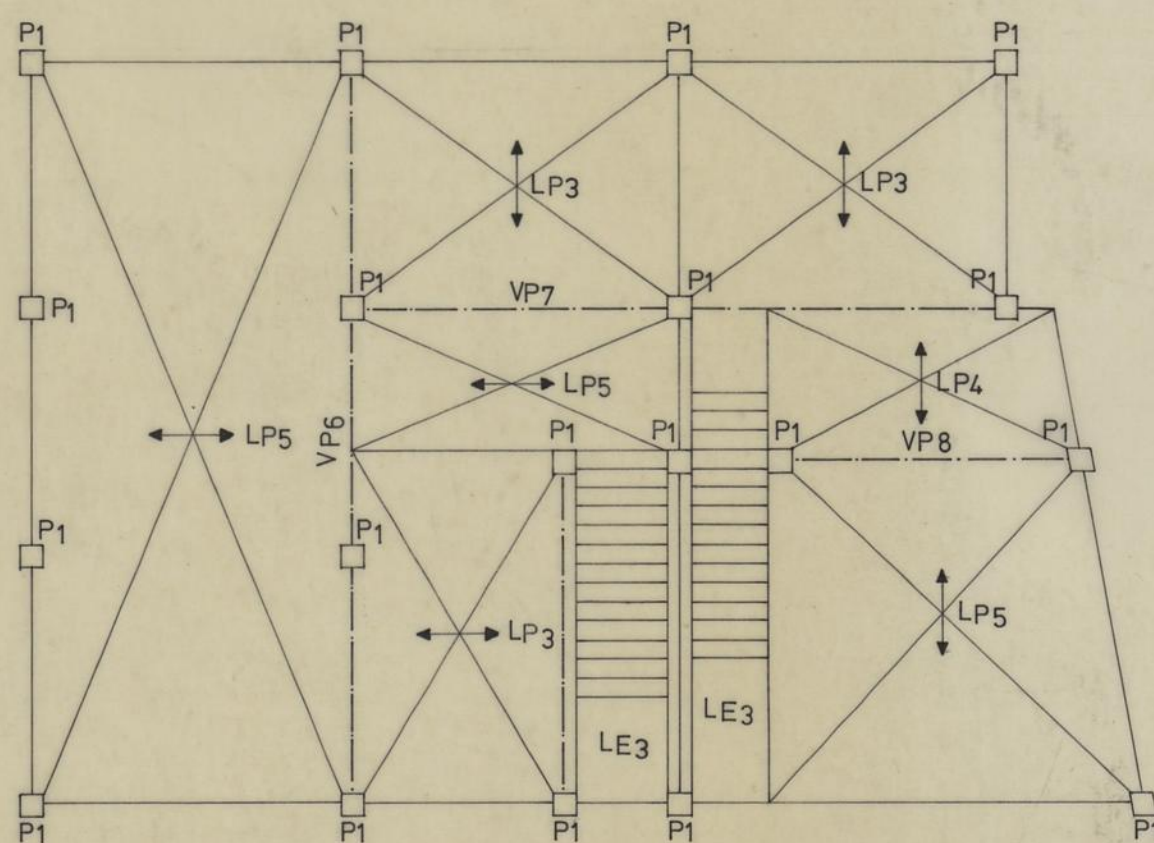
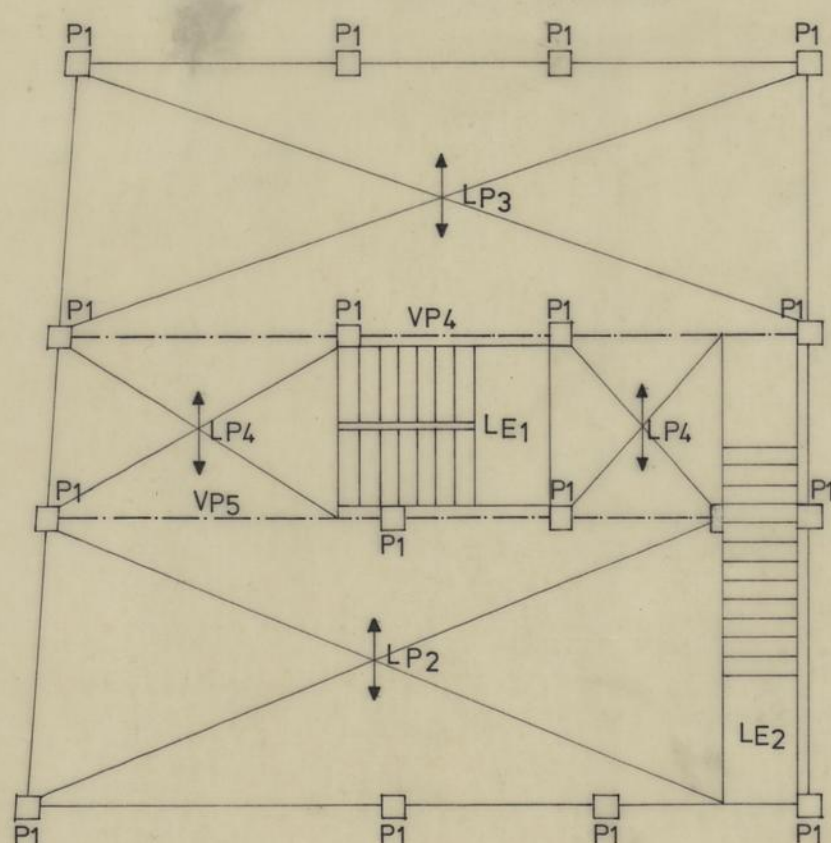


(Edifício 4)

PLANTA ESTRUTURAL DA COBERTURA



PLANTA ESTRUTURAL DO ANDAR



Legenda

- PAREDE DE TIJOLO FURADO DE 15 cm COM UMA CINTA DE 15 x 20 cm2 COM 4Ø12 E ESTRIBOS Ø6 @.15
- A VIGOTA PRÉ-FABRICADA COM $M_R = 160 \text{ Kg/m}$
- B " " " " = 180 "
- a) SEPTO ASSENTE SOBRE 2 VIGOTAS

AS PAREDES RESISTENTES SERÃO DUPLAS DE BLOCO DE CIMENTO DE 15 cm DE ESPESSURA COM CAIXA DE AR DE 5cm E TIJOLO FURADO DE 7cm. AO NÍVEL DAS LAJES ESTAS PAREDES LEVARÃO UMA CINTA DE BETÃO ARMADO.

ZONA DO LEAL E ALTO DA FONTINHA
1ª FASE - 41 fogos

BETÃO ARMADO

PLANTAS ESTRUTURAIS
EDIFÍCIOS 4,5e6

CMP

DIRECÇÃO DOS SERVIÇOS DE
HABITAÇÃO

DESENHO Nº **45** **8**

ESCALAS 1/100

ENGENHEIRO CHEFE

PROJECTO

DESENHO

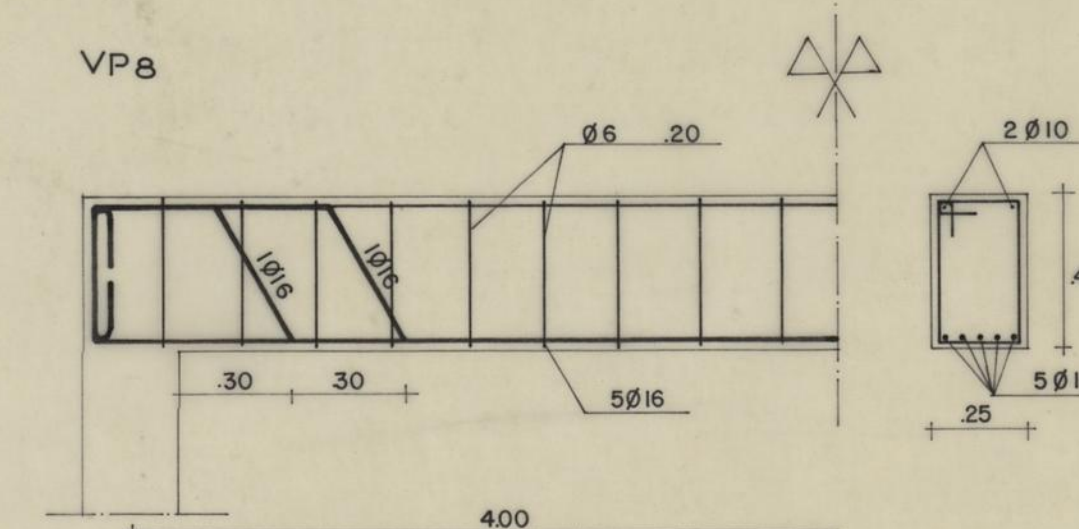
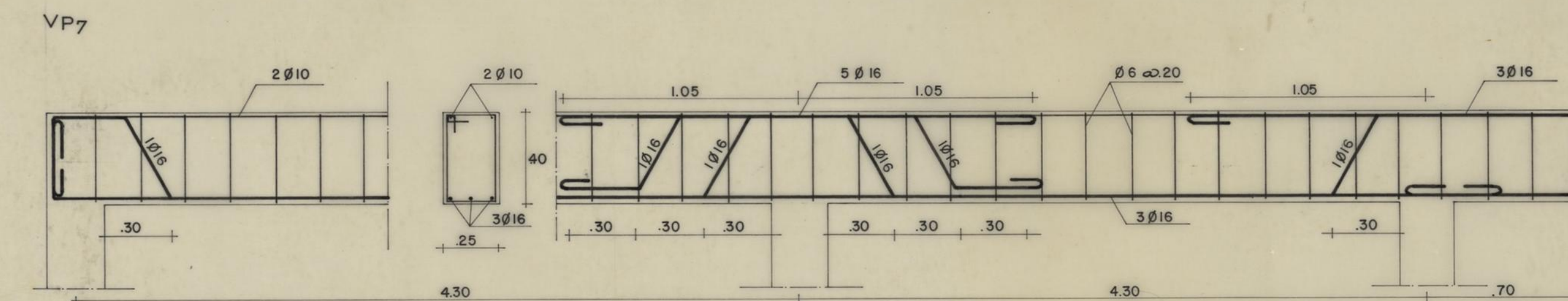
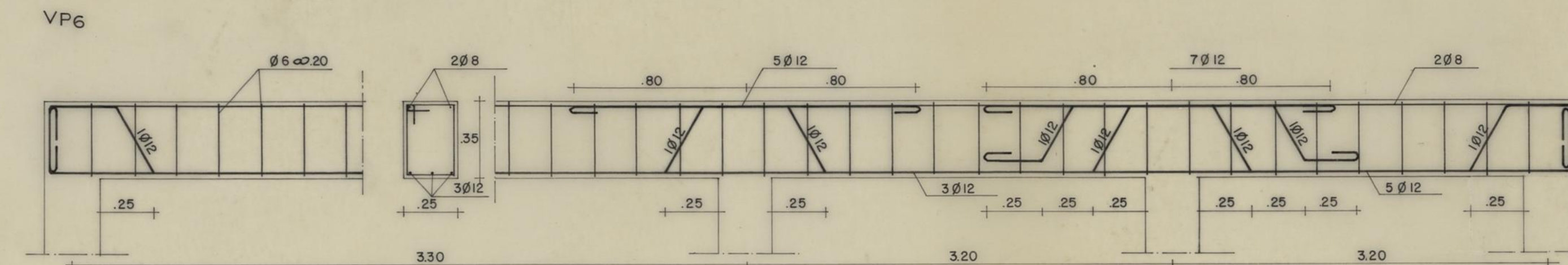
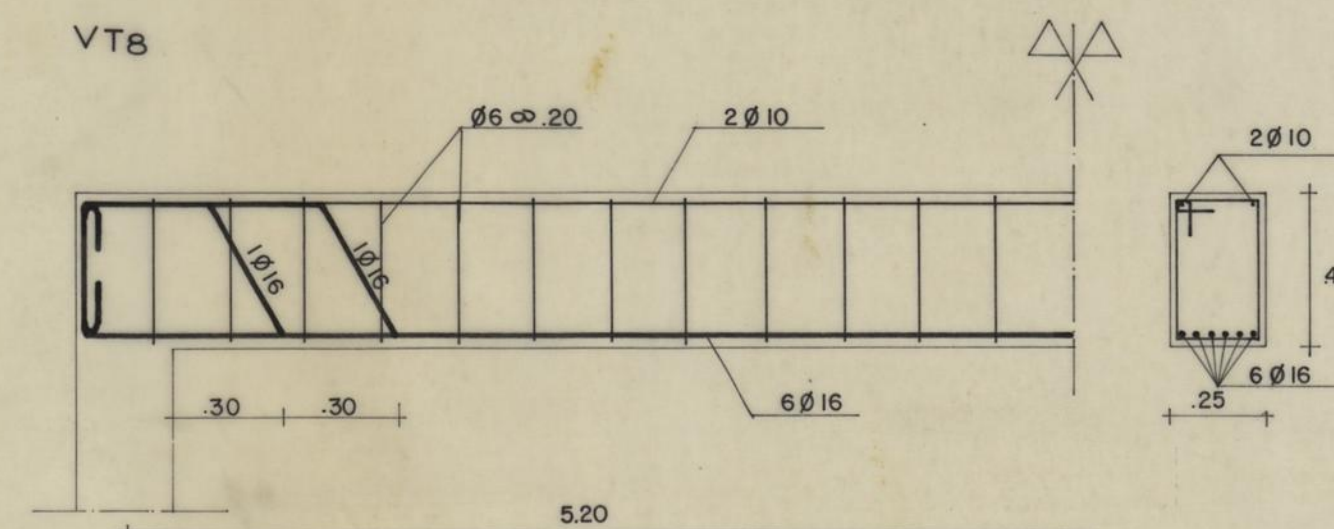
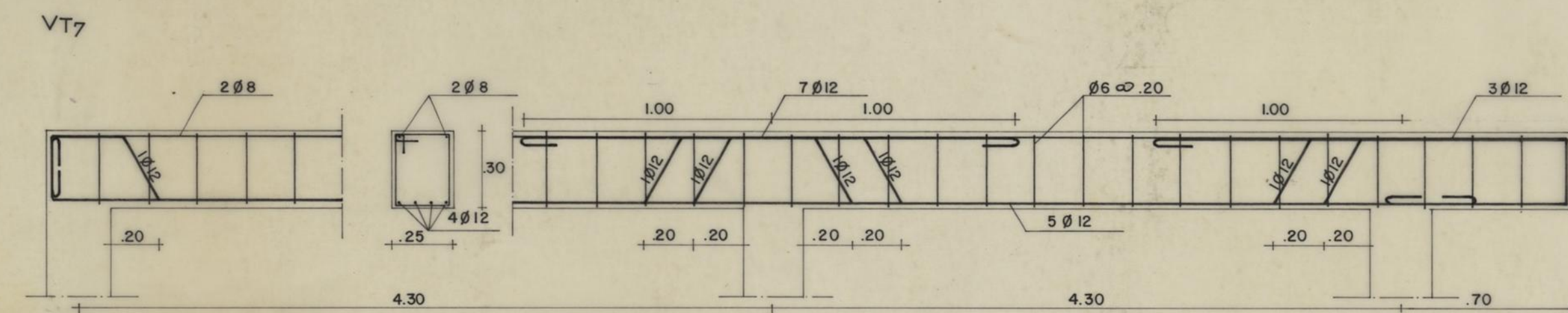
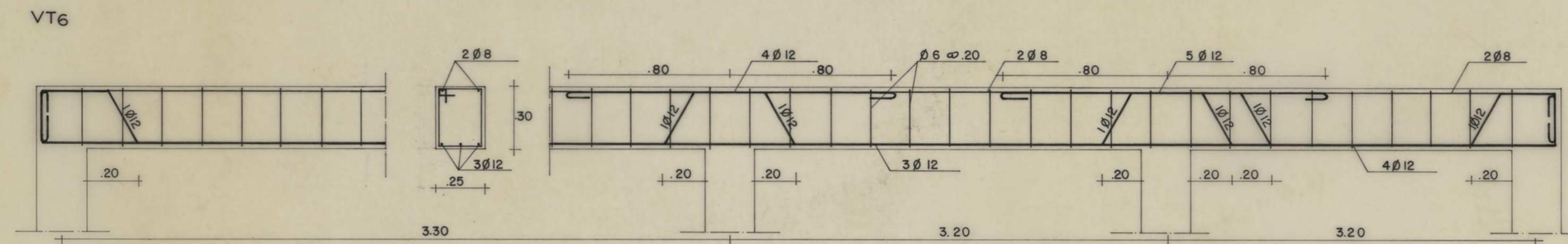
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ANULADO

SUBSTITUÍDO

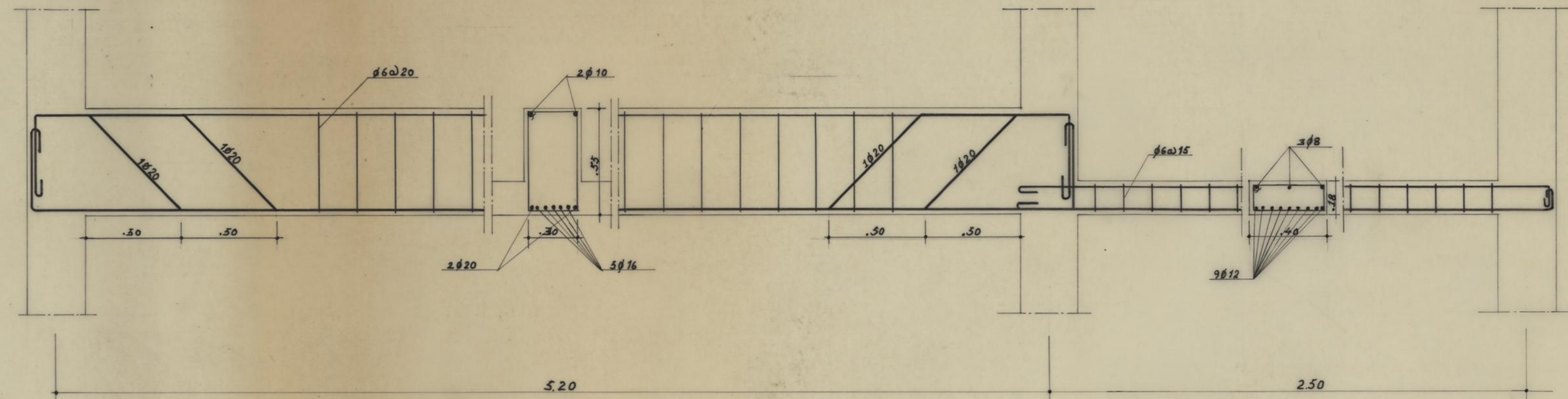
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DATA

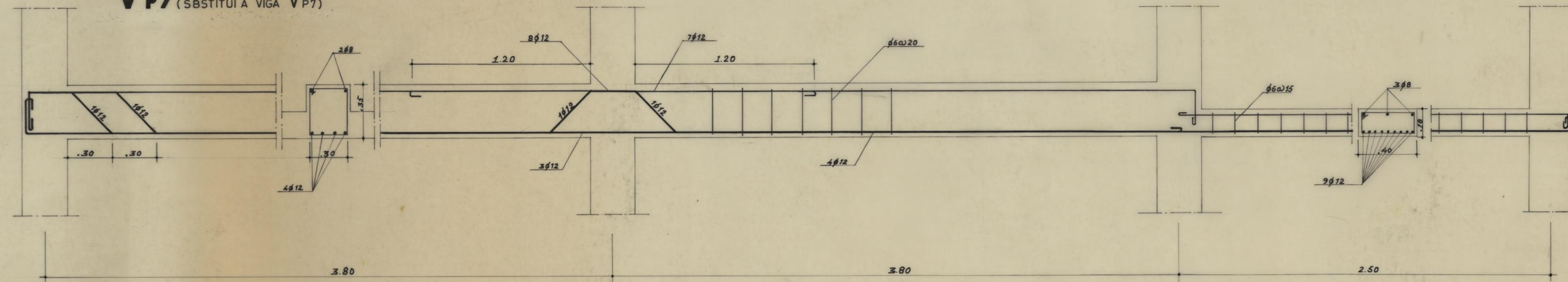


ZONA DO LEAL E ALTO DA FONTINHA		CMP	
1ª FASE - 41 fogos		DIRECÇÃO DOS SERVIÇOS DE HABITAÇÃO	
BETÃO ARMADO		DESENHO Nº	46 9
VIGAS DE TECTO E DE PAVIMENTO		ESCALAS	1/20
EDIFÍCIOS 1,2e3		ANULADO	
ENGENHEIRO CHEFE	PROJECTOU	SUBSTITUÍDO	
	José Ilídio da Silveira	DATA	
	B. Pereira		

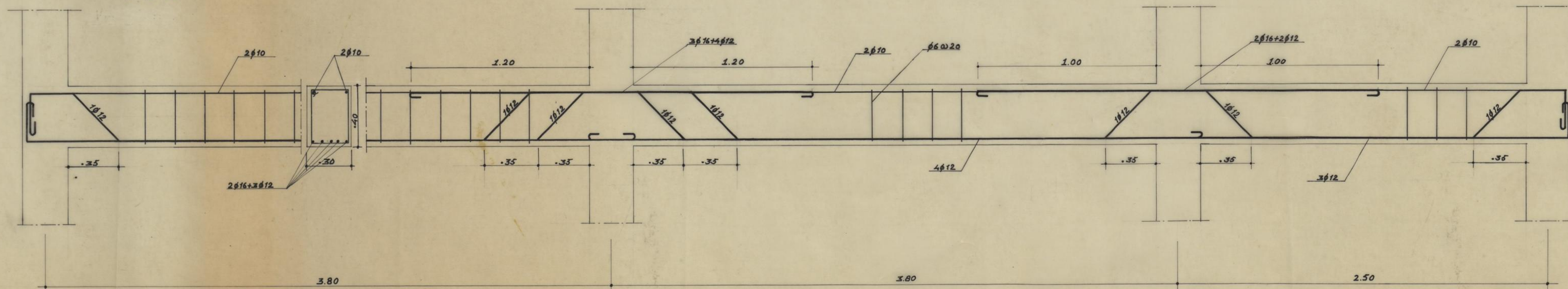
V' P5 (SUBSTITUI A VIGA VP5)



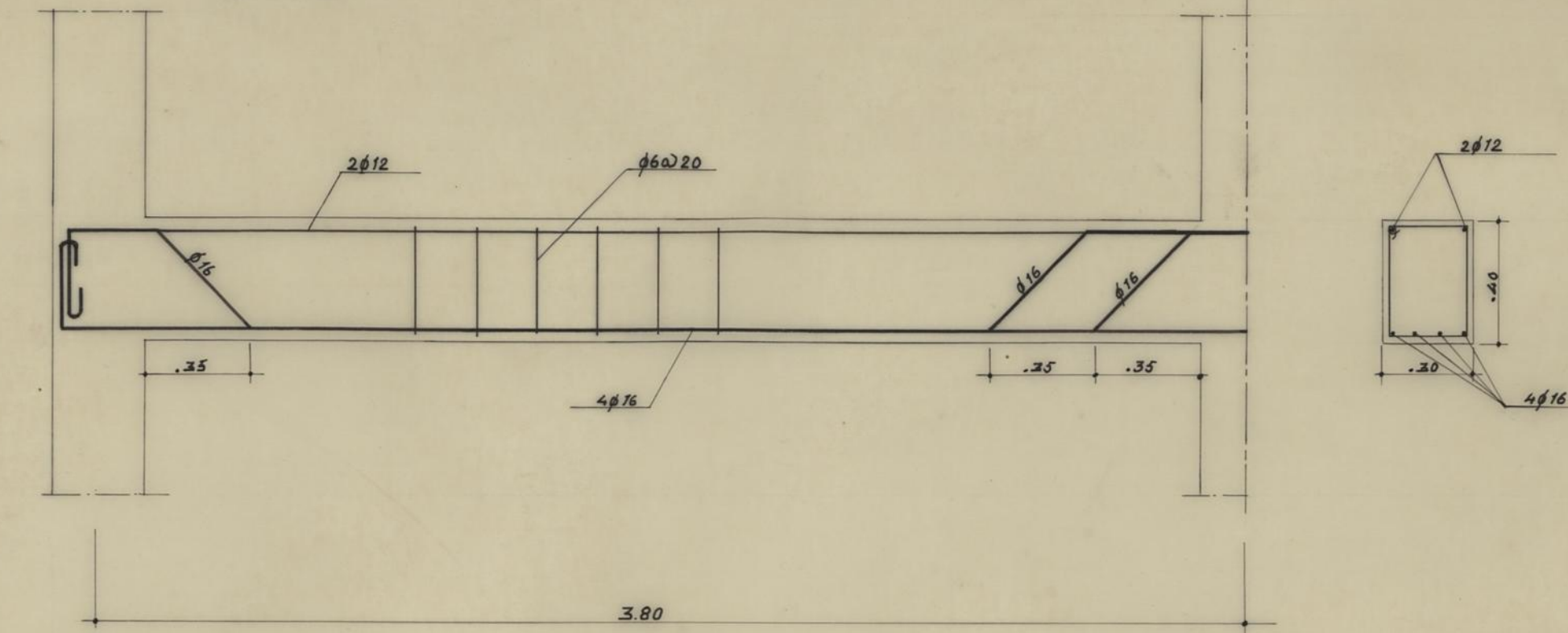
V' P7 (SUBSTITUI A VIGA VP7)



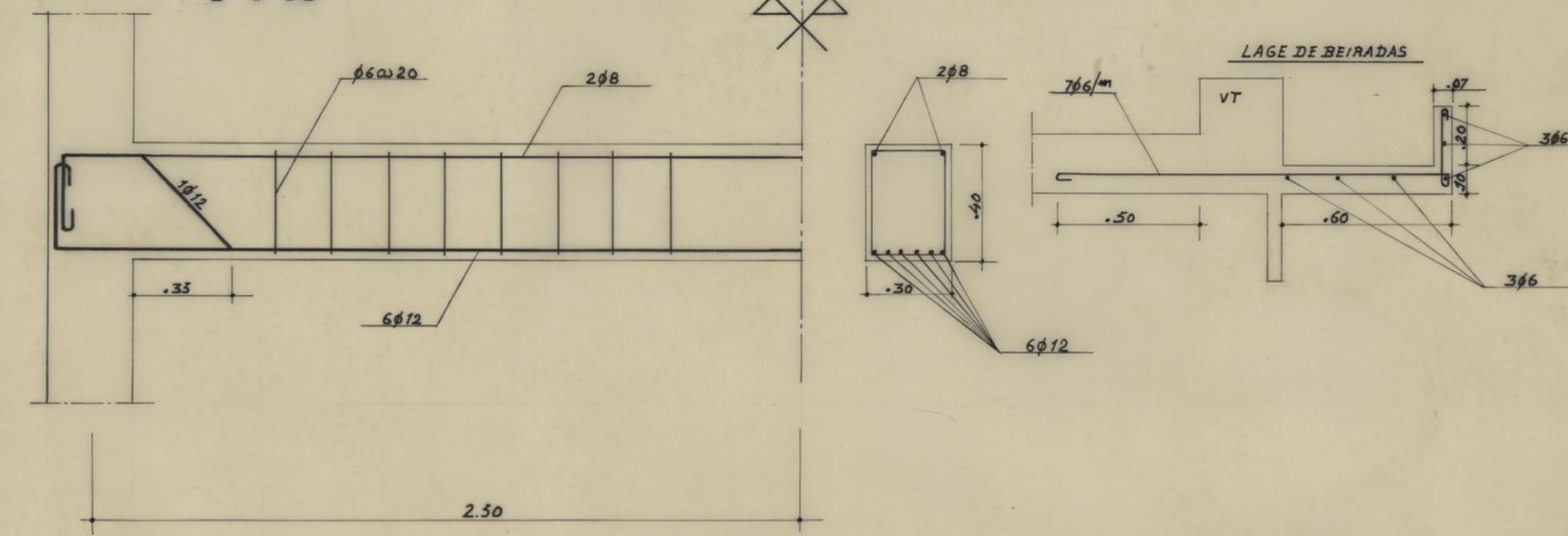
V P11



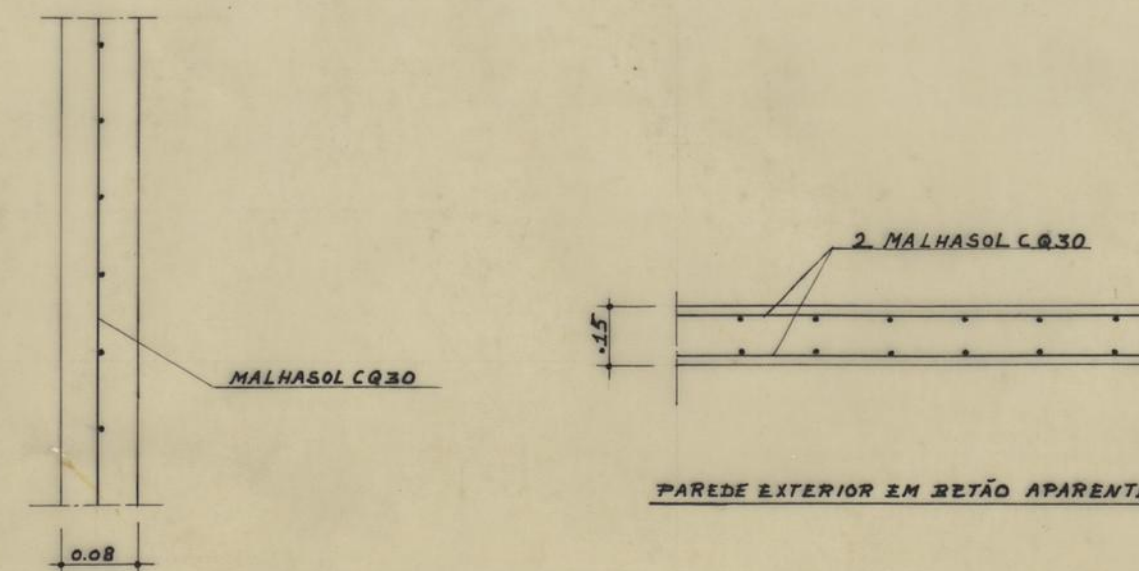
V P12



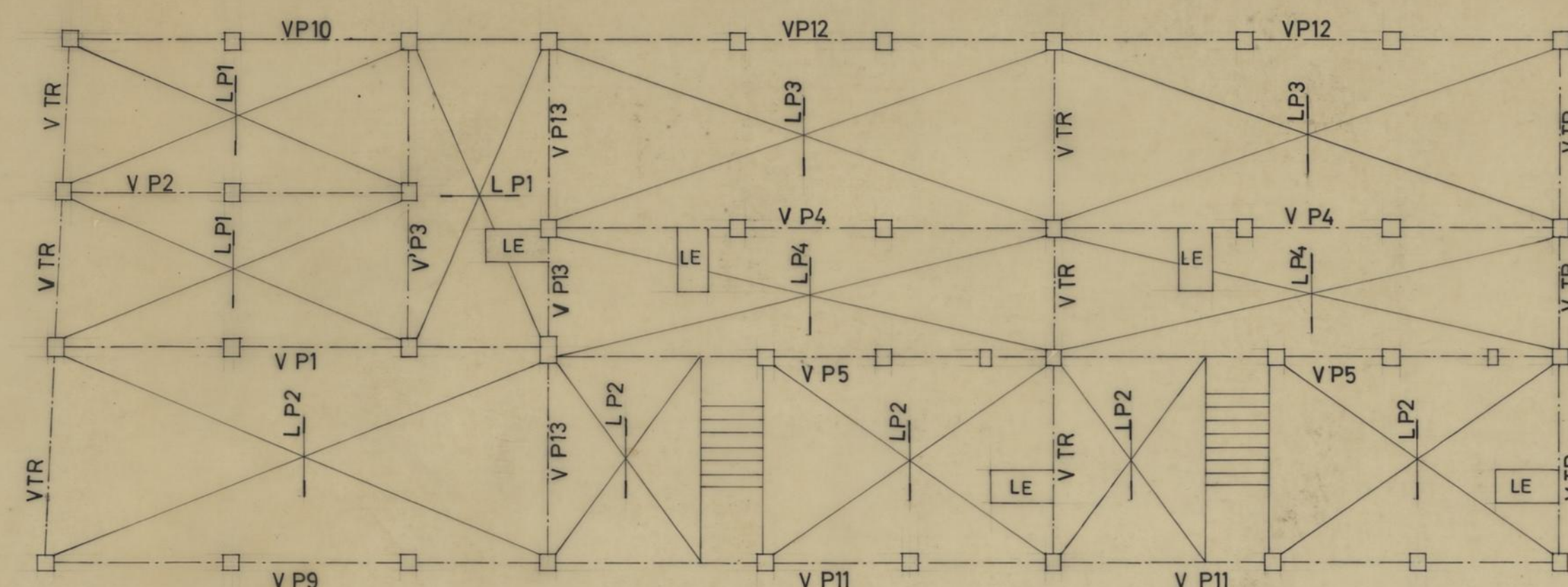
V P13



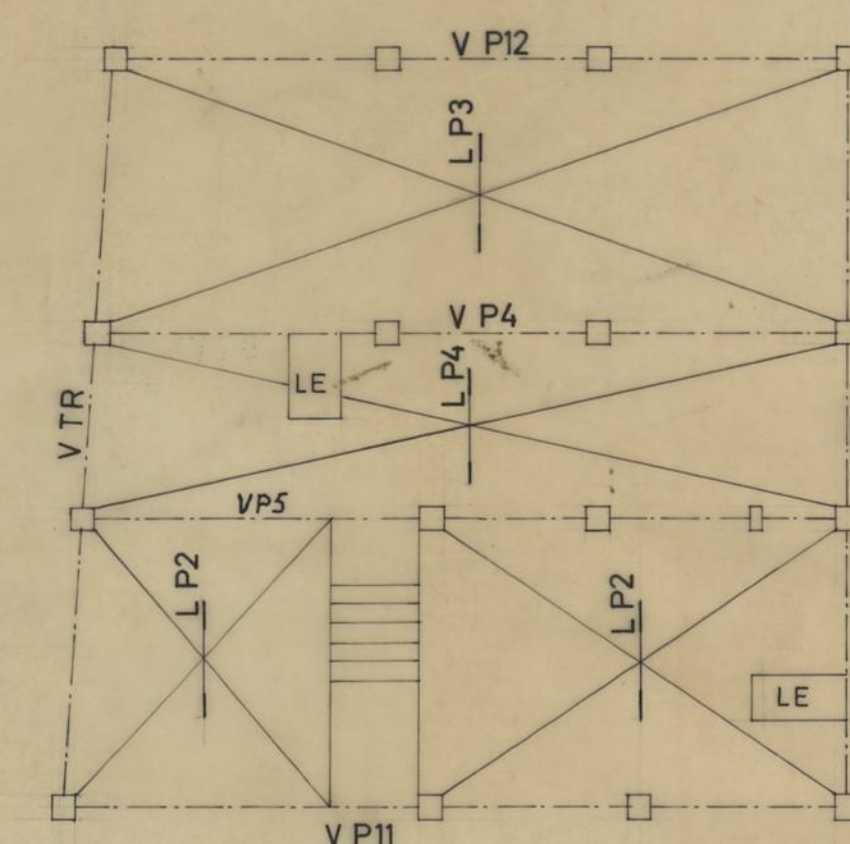
PARAPEITO DA VARANDA EM BETÃO ARMADO



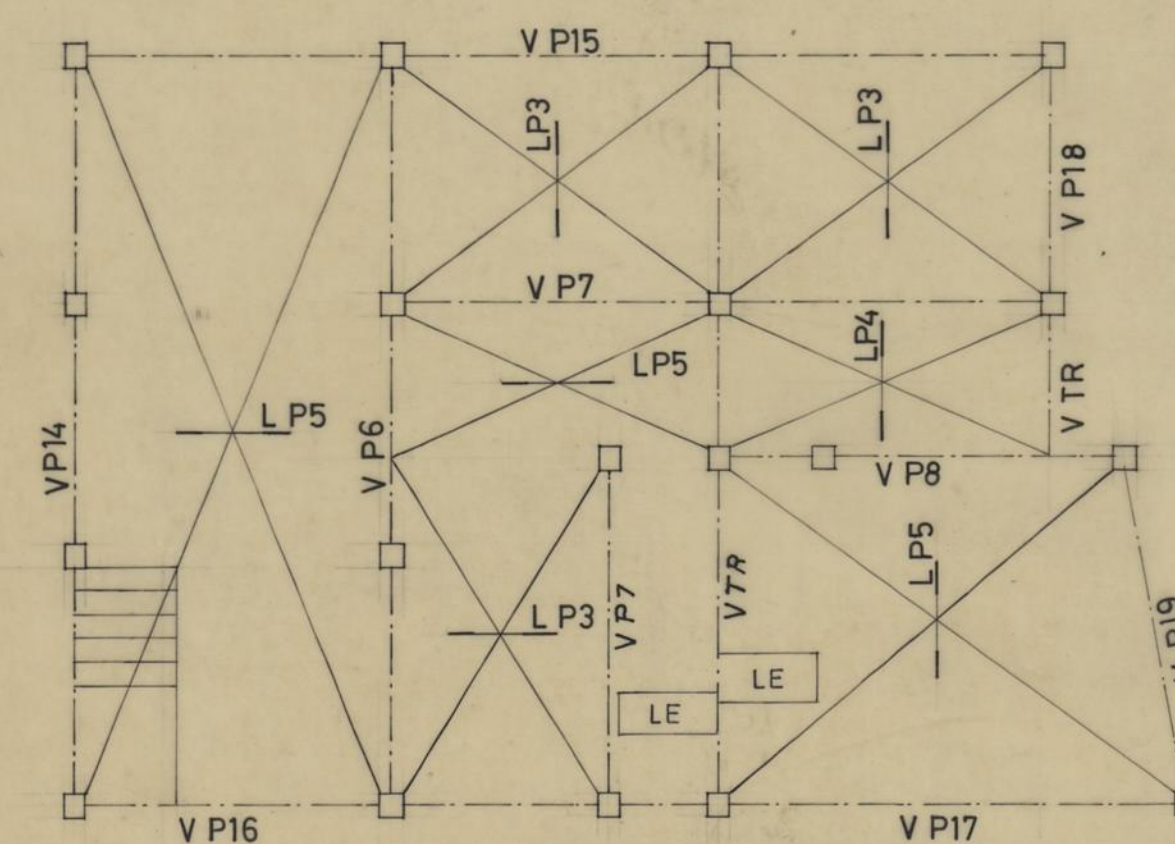
ZONA DO LEAL E ALTO DA FONTINHA		CMP
1ª FASE - 41 fogos		
BETÃO ARMADO		DIRECÇÃO DOS SERVIÇOS DE HABITAÇÃO
VIGAS; LAGE DE BEIRADAS		DESENHO Nº 47 10
PAREDE EM BETÃO APARENTE; PARAPEITO; EDIFÍCIOS 1,2 e 3		ESCALAS 1/20
O ENGENHEIRO CHEFE	PROJECTO J. Soares & C.ª DESENHO Hernâni Silva	ANULADO SUBSTITUÍDO DATA



PLANTA DO RES-DO-CHÃO (Edifício 6)



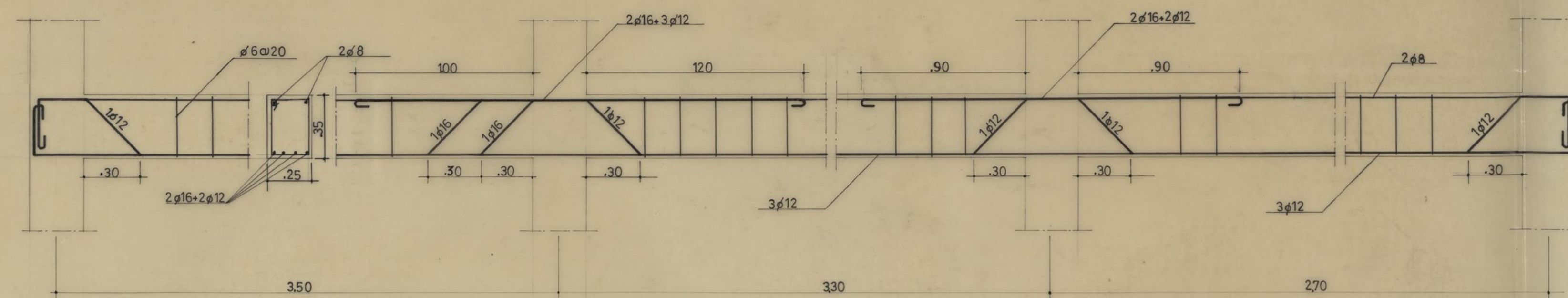
(Edifício 5)



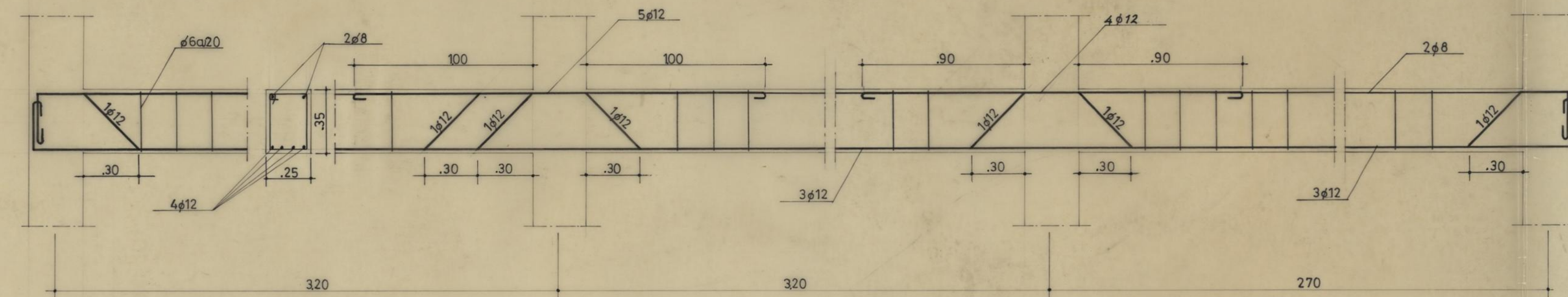
(Edifício 4)

PLANTA DO RES-DO-CHÃO

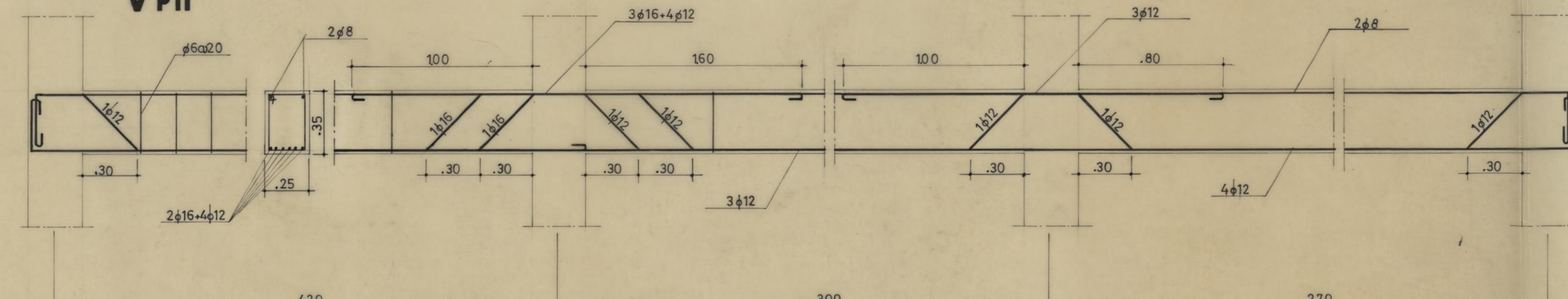
VP9



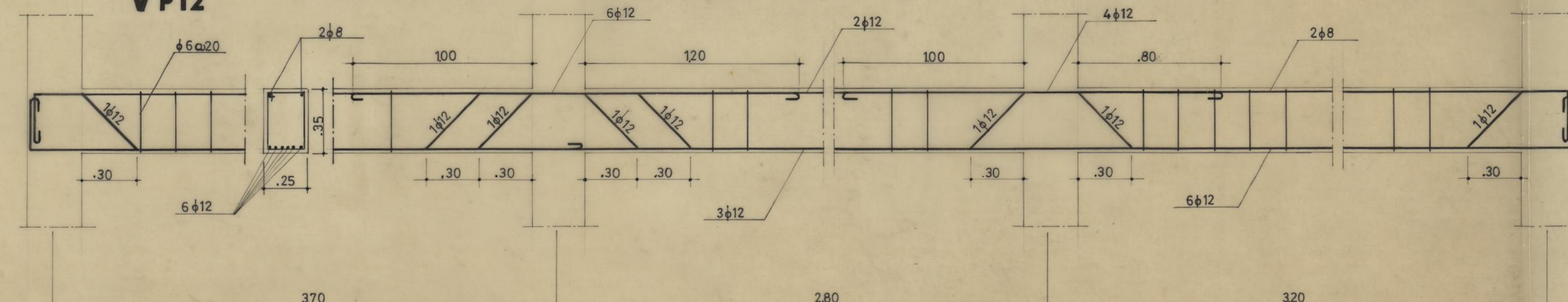
VP10



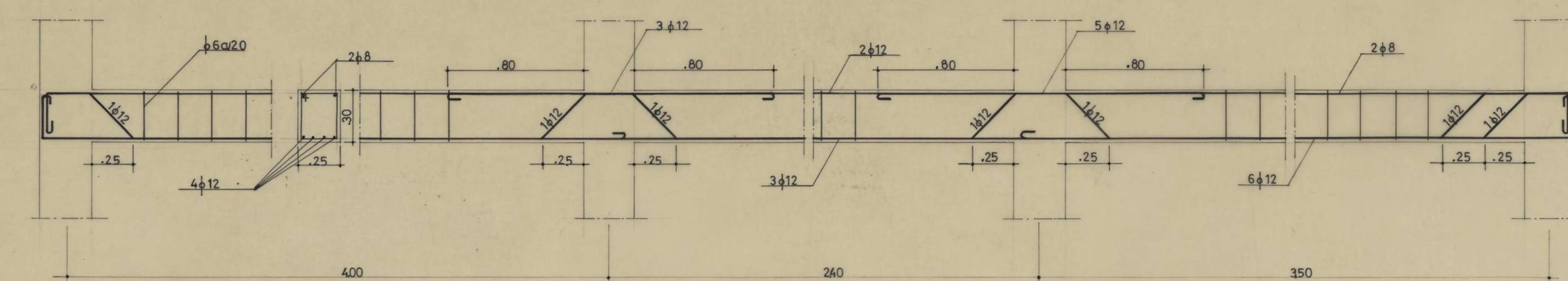
VP11



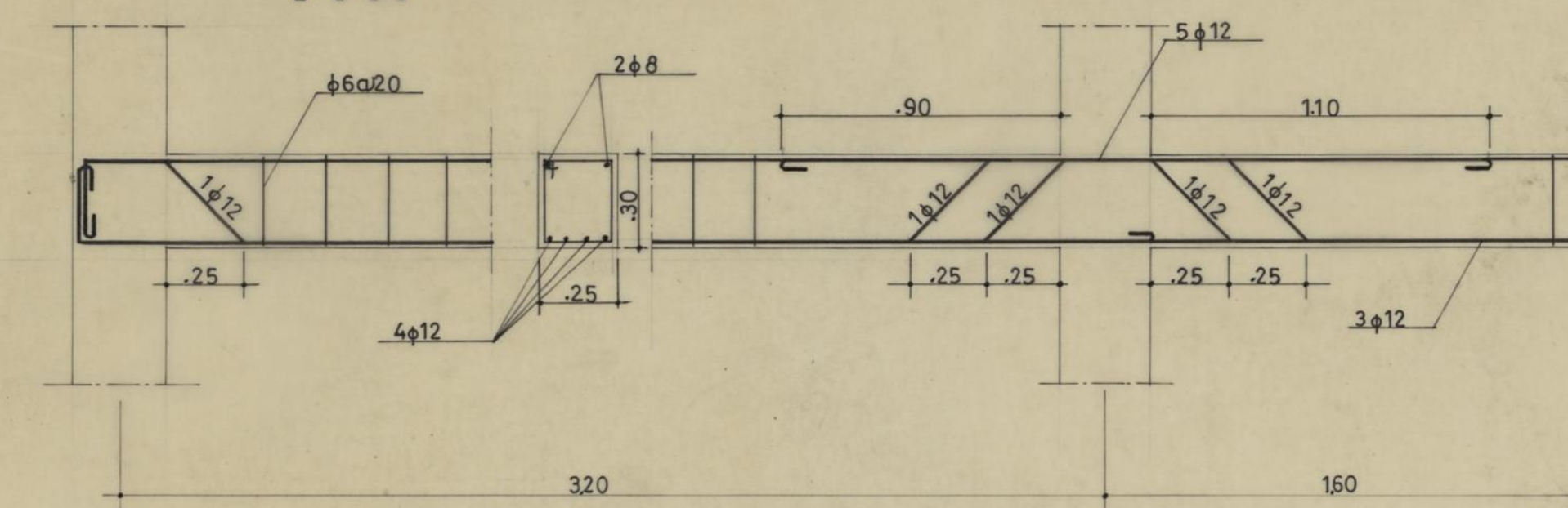
VP12



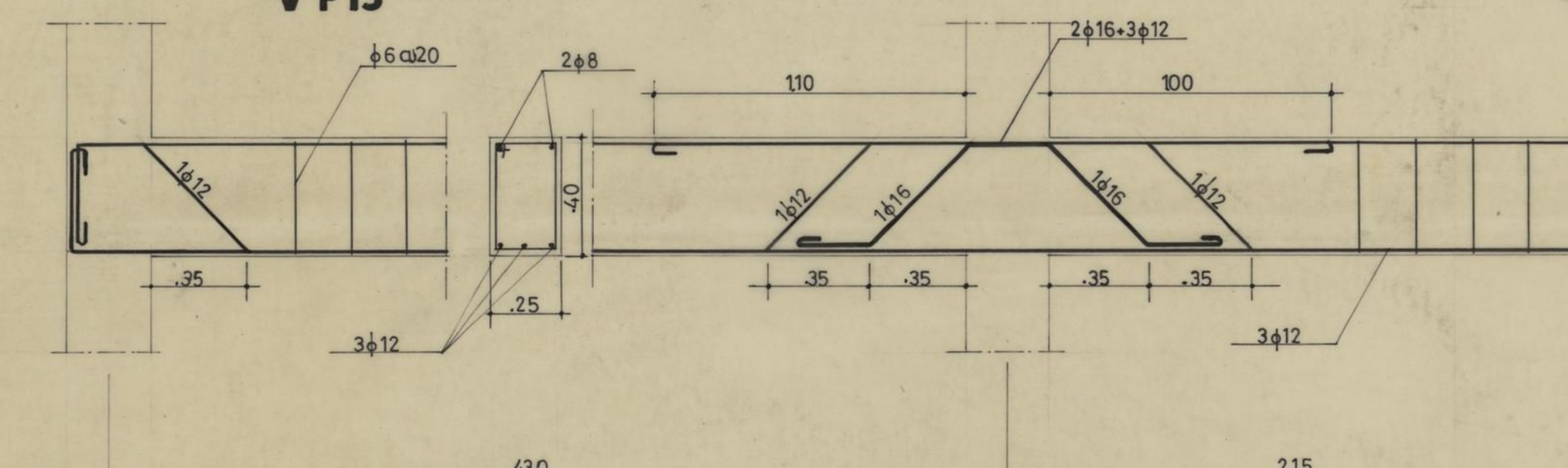
VP13



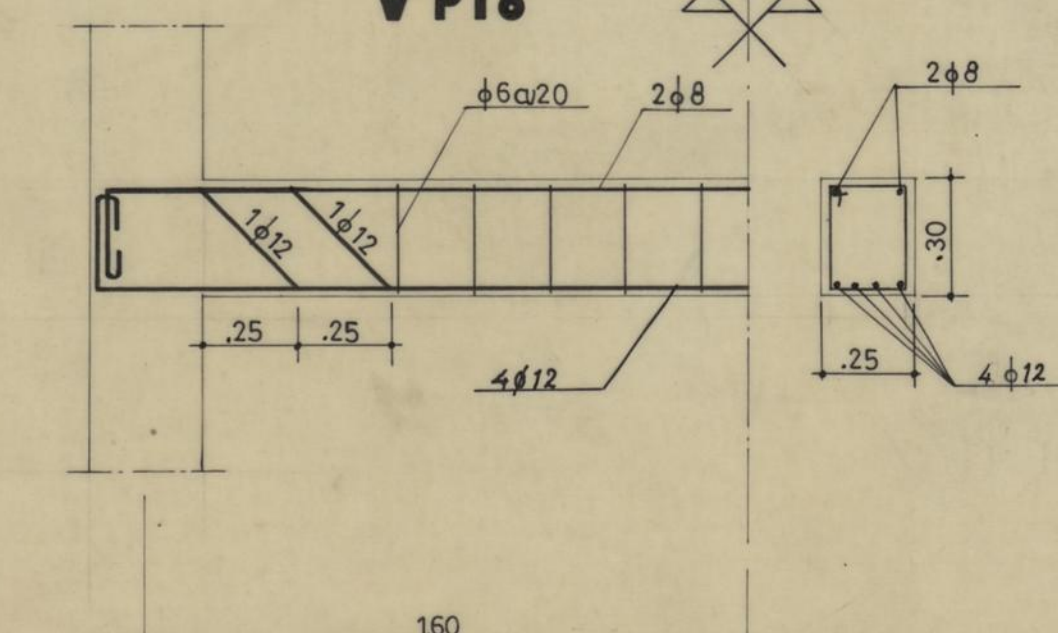
VP14



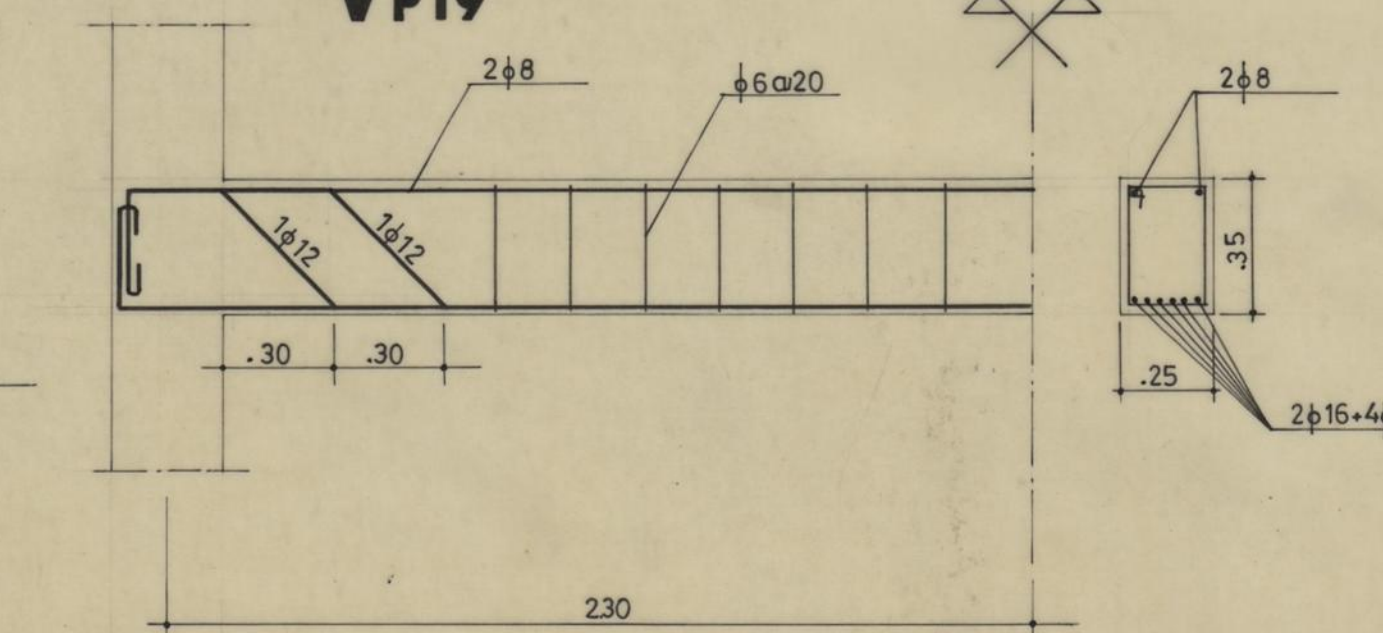
VP15



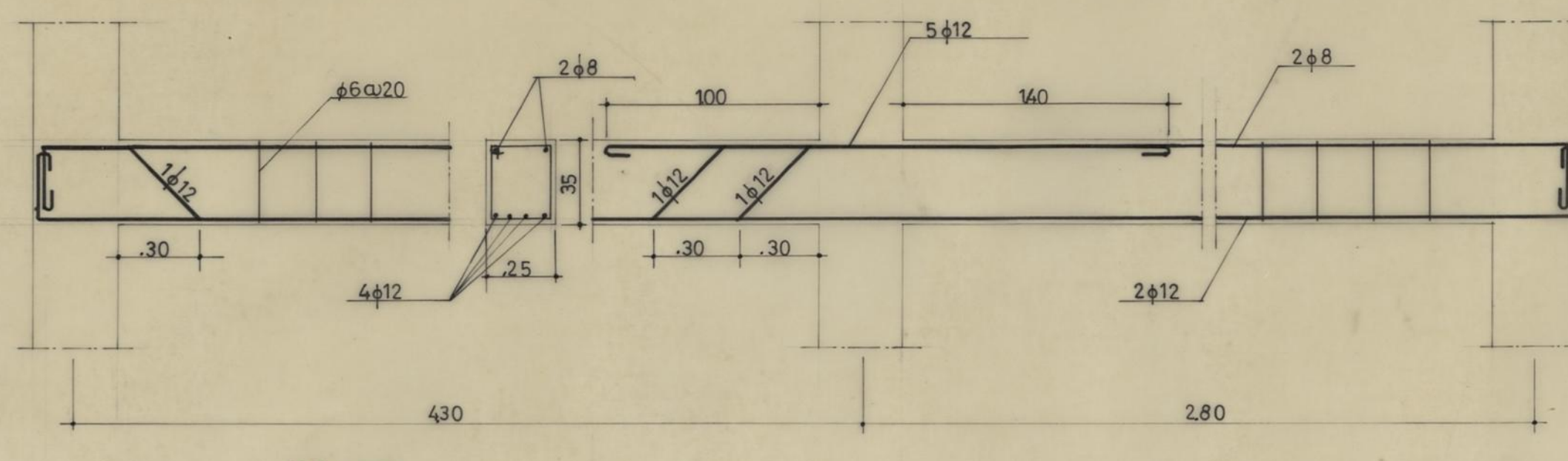
VP18



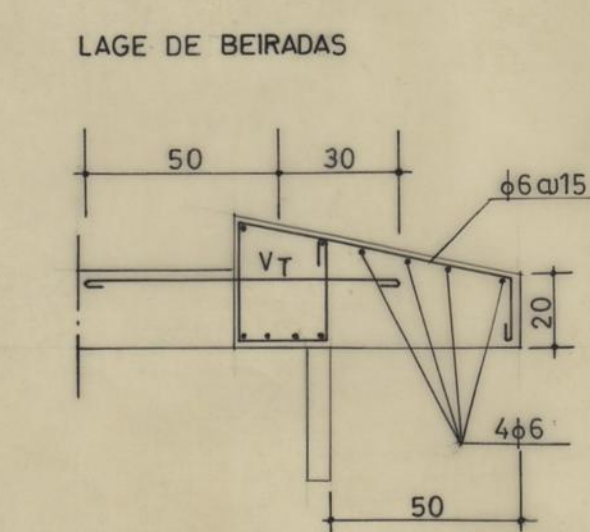
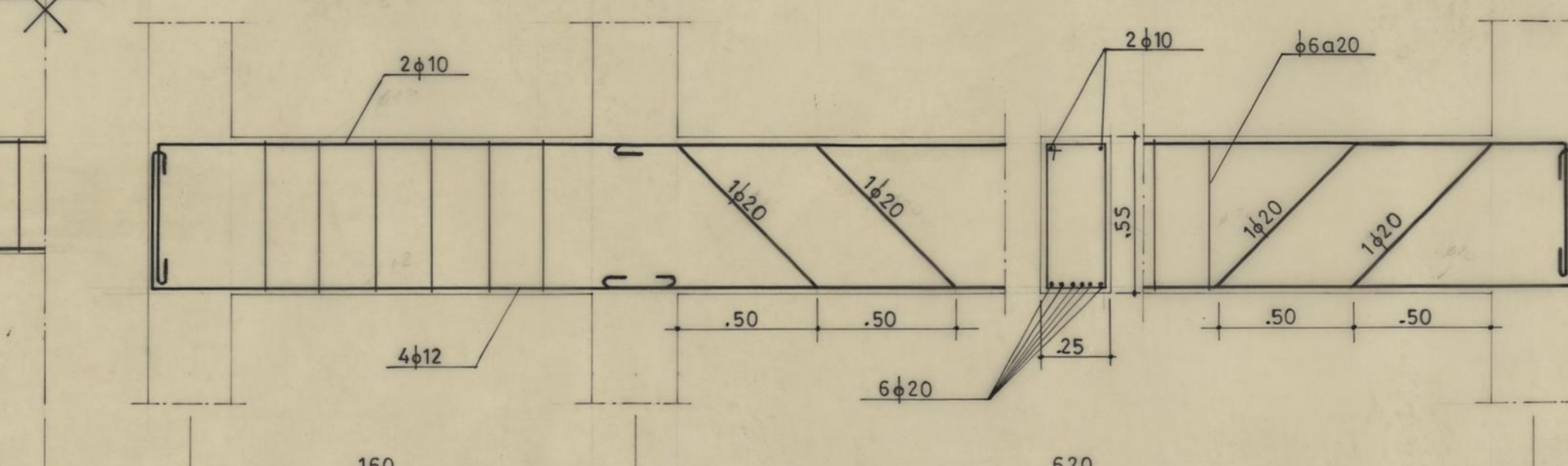
VP19



VP16



VP17



ZONA DO LEAL E ALTO DA FONTINHA		CMP	
1ª FASE - 41 fogos		DIRECÇÃO DOS SERVIÇOS DE HABITAÇÃO	
BETÃO ARMADO		DESENHO Nº 48 11	
VIGAS, LAGE DE BEIRADAS		ESCALAS 1/20	
PLANTAS ESTRUTURAIS DO RES-DO-CHÃO		AUTORES	
EDIFÍCIOS 4,5 e 6		DATA	
O ENGENHEIRO CHARGE		PROJETO	
		REVISÃO	