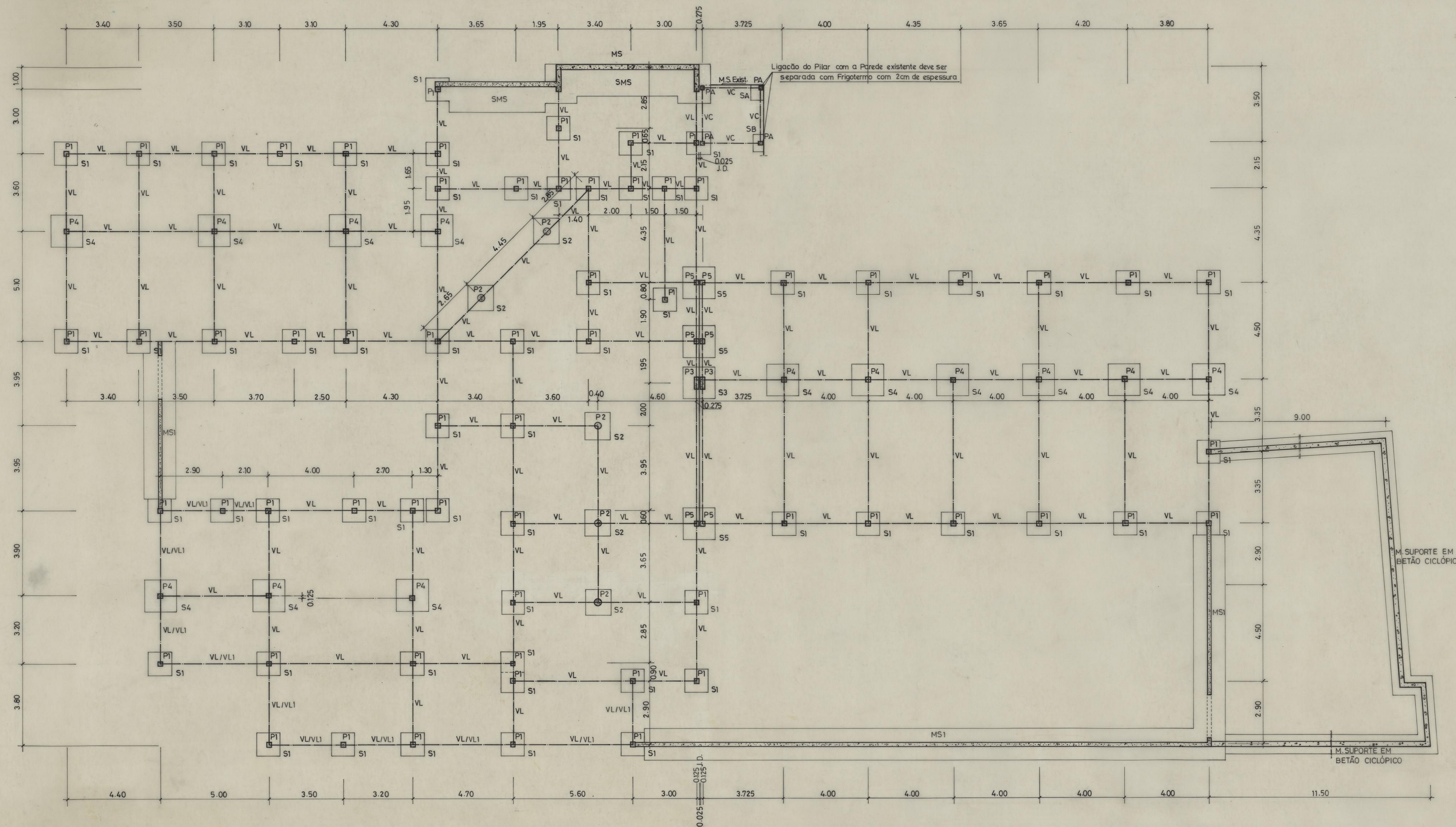
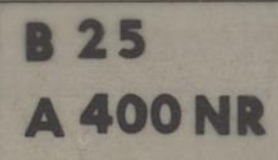




**B 25  
A 400NR**

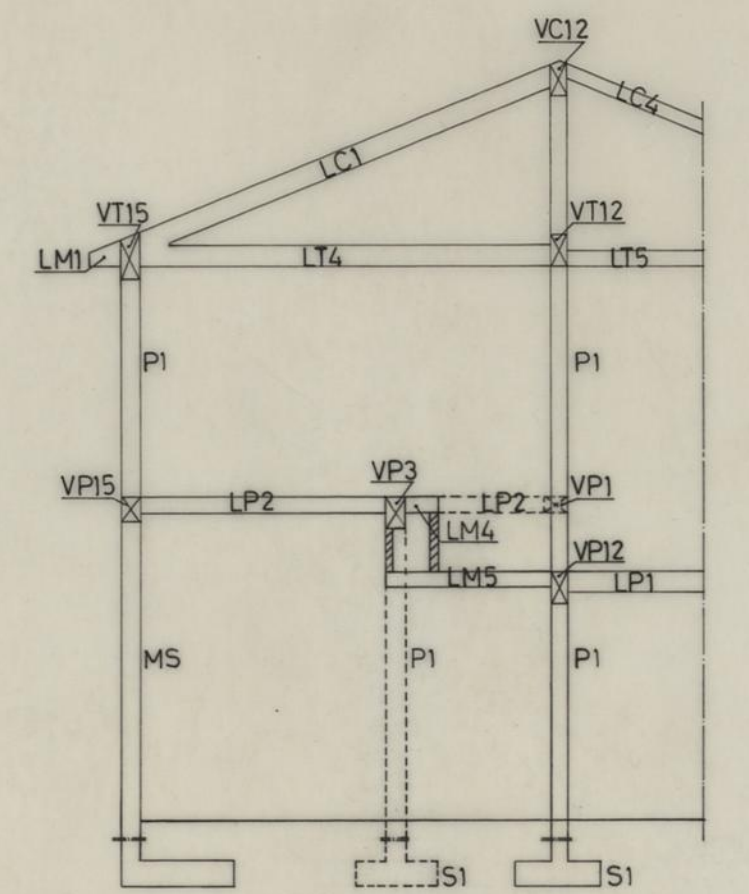
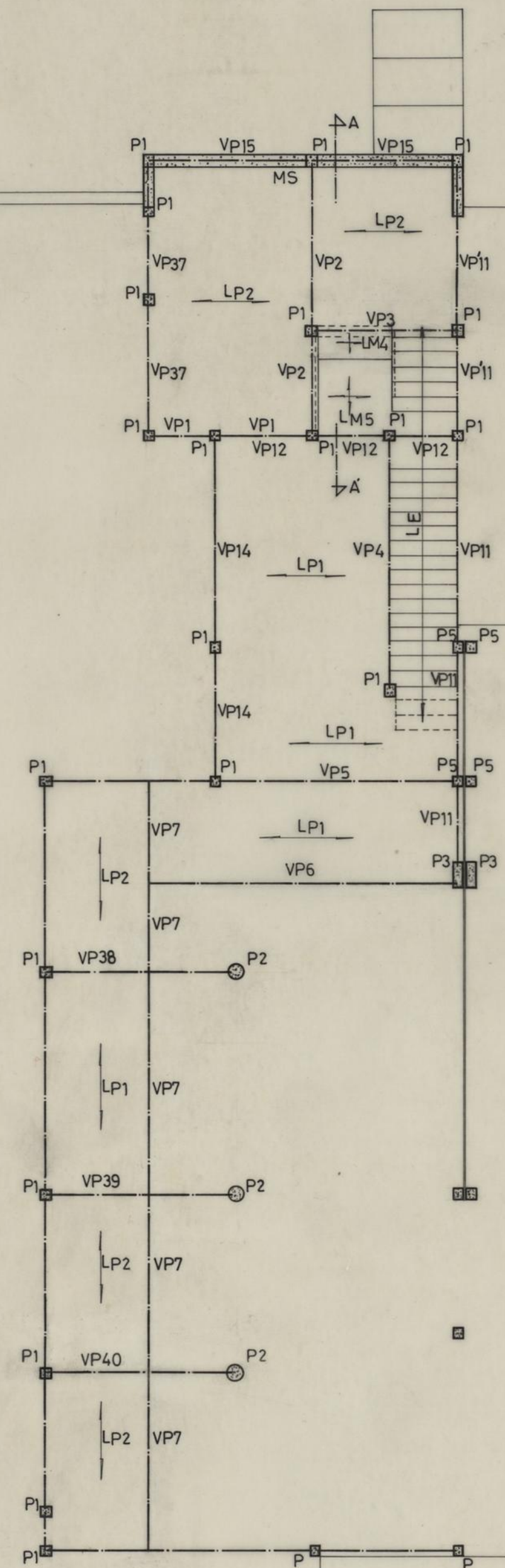
NOTA: Cotas a rectificar no local

|                                                                           |                                   |                                         |  |
|---------------------------------------------------------------------------|-----------------------------------|-----------------------------------------|--|
| CRECHE JARDIM DE INFÂNCIA E CENTRO DE DIA DE RAINHA D. LEONOR-O. D. P. S. |                                   | CAMARA MUNICIPAL DO PORTO               |  |
| DIRECÇÃO DOS SERVIÇOS DE OBRAS D. C. C.                                   |                                   | DIRECÇÃO DOS SERVIÇOS DE OBRAS D. C. C. |  |
| BETÃO ARMADO                                                              |                                   | DESENHO Nº <b>39 1</b>                  |  |
| PLANTA DE FUNDAÇÕES                                                       |                                   | ESCALAS 1 / 100                         |  |
| DO CHefe                                                                  | DESENHOU: <i>Amândio Oliveira</i> | ANULADO                                 |  |
| PROJECTOU: <i>AP</i>                                                      |                                   | SUBSTITUÍDO                             |  |
|                                                                           |                                   | DATA 1995 MAIO                          |  |



NOTA : Cotas a rectificar no local

|                                                                           |                       |                                                                          |         |
|---------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------|---------|
| CRECHE, JARDIM DE INFÂNCIA E CENTRO DE DIA DE RAINHA D. LEONOR — O.D.P.S. |                       | CÂMARA MUNICIPAL<br>DO PORTO                                             |         |
| BETÃO ARMADO                                                              |                       | DIRECÇÃO MUNICIPAL DE EQUIPAMENTOS E SERVIÇOS GERAIS<br>D. M. CONSTRUÇÃO |         |
| PLANTA DE FUNDACOES                                                       |                       | DESENHO N.º                                                              | 39A 1A  |
|                                                                           |                       | ESCALAS                                                                  | 1/100   |
| O CHEFE                                                                   | DESENHOU              | ANULADO                                                                  |         |
| <i>[Signature]</i>                                                        | <i>Manuel Pimenta</i> | SUBSTITUÍDO                                                              |         |
| PROJECTO                                                                  | <i>Alvaro Dias</i>    | DATA                                                                     | 97 MAIO |

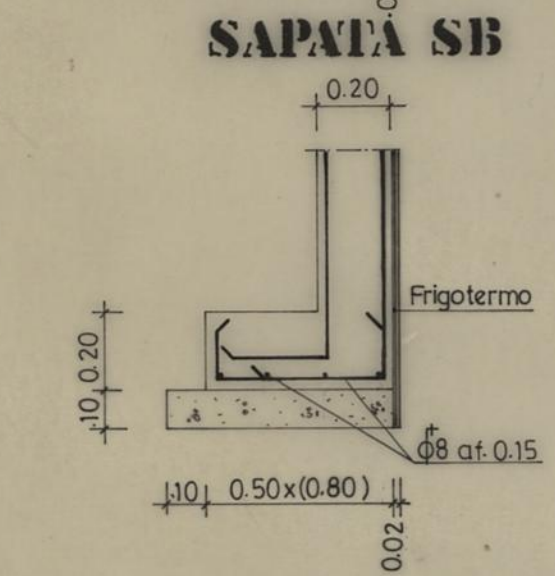
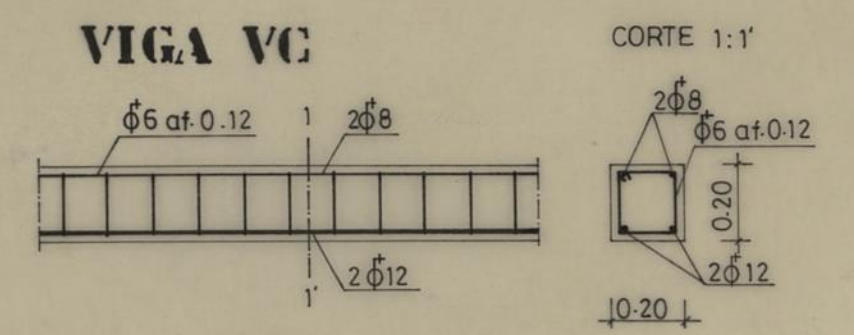
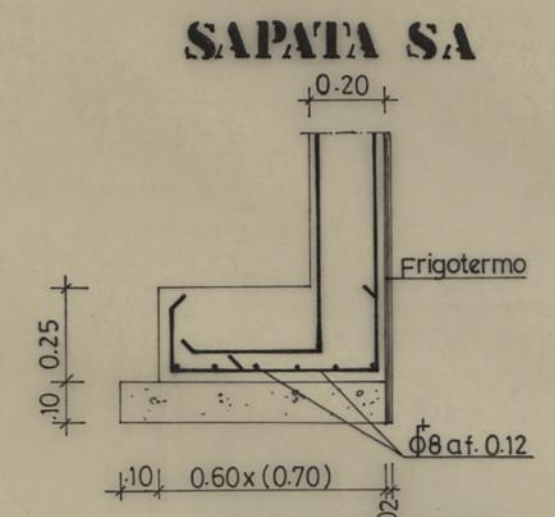
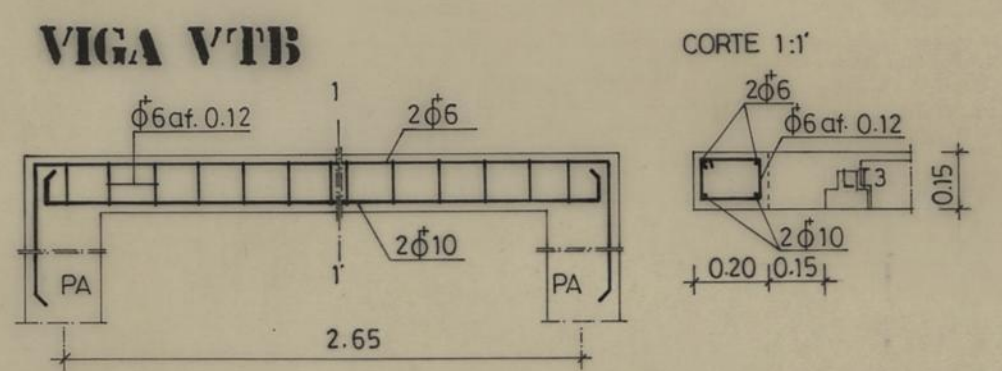
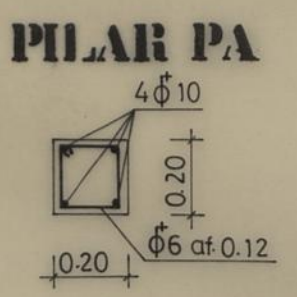
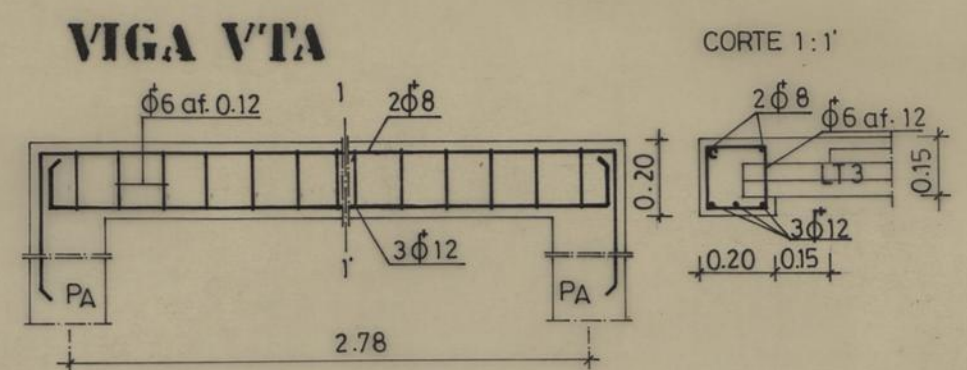
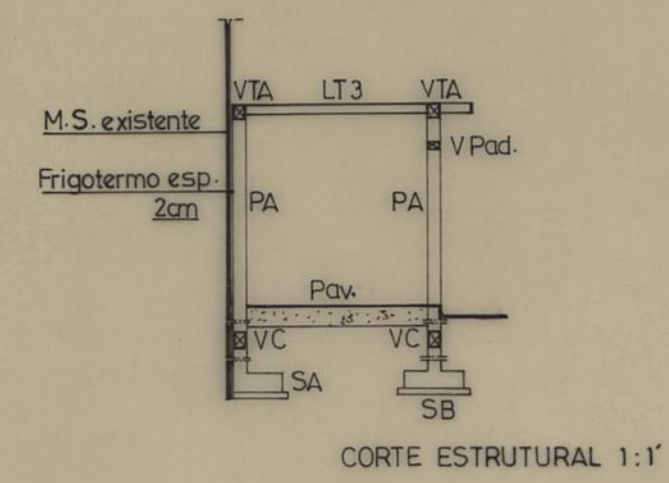
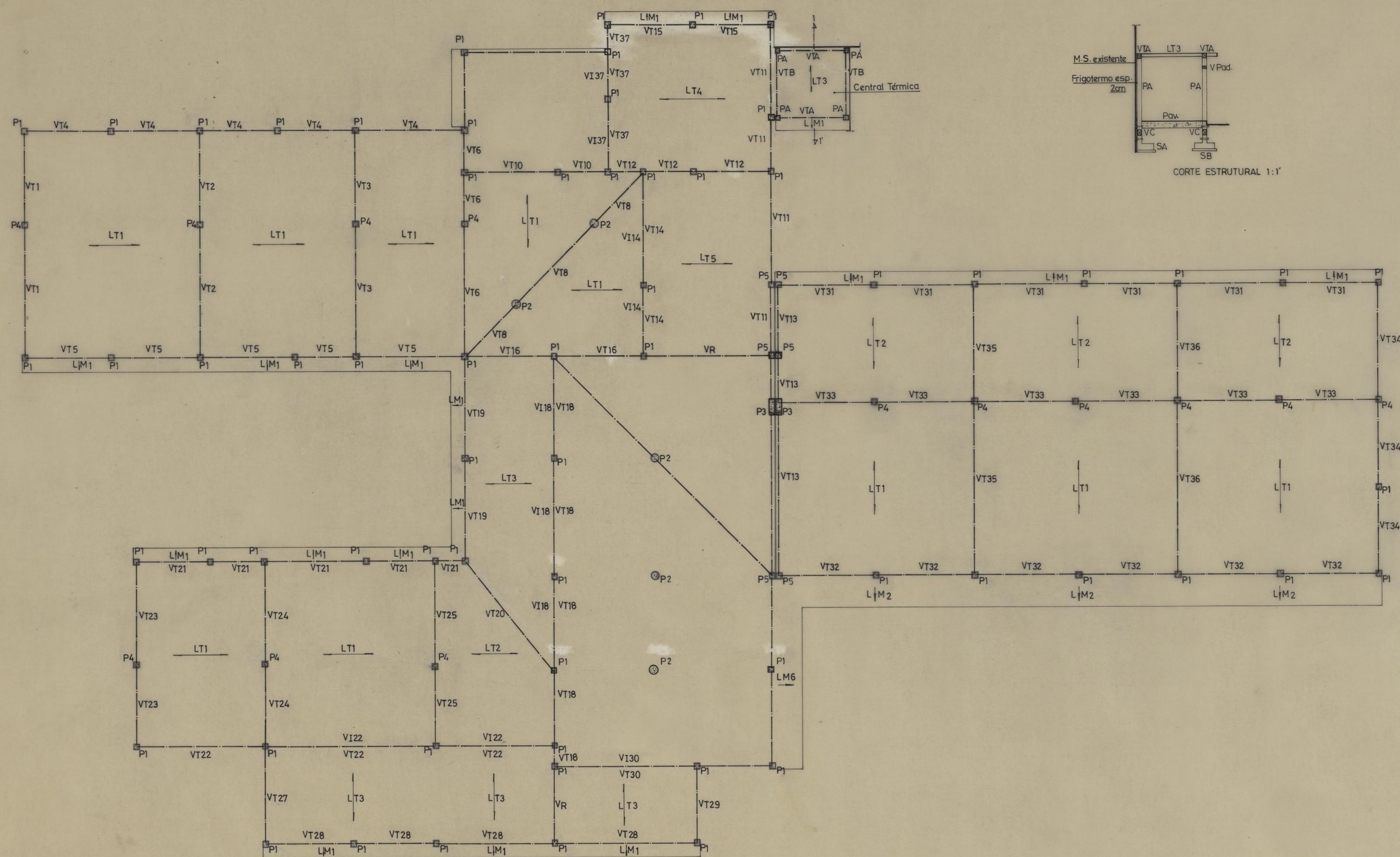


CORTE ESTRUTURAL A : A

**B 25**  
**A 400NR**

NOTA: Cotas a rectificar no local

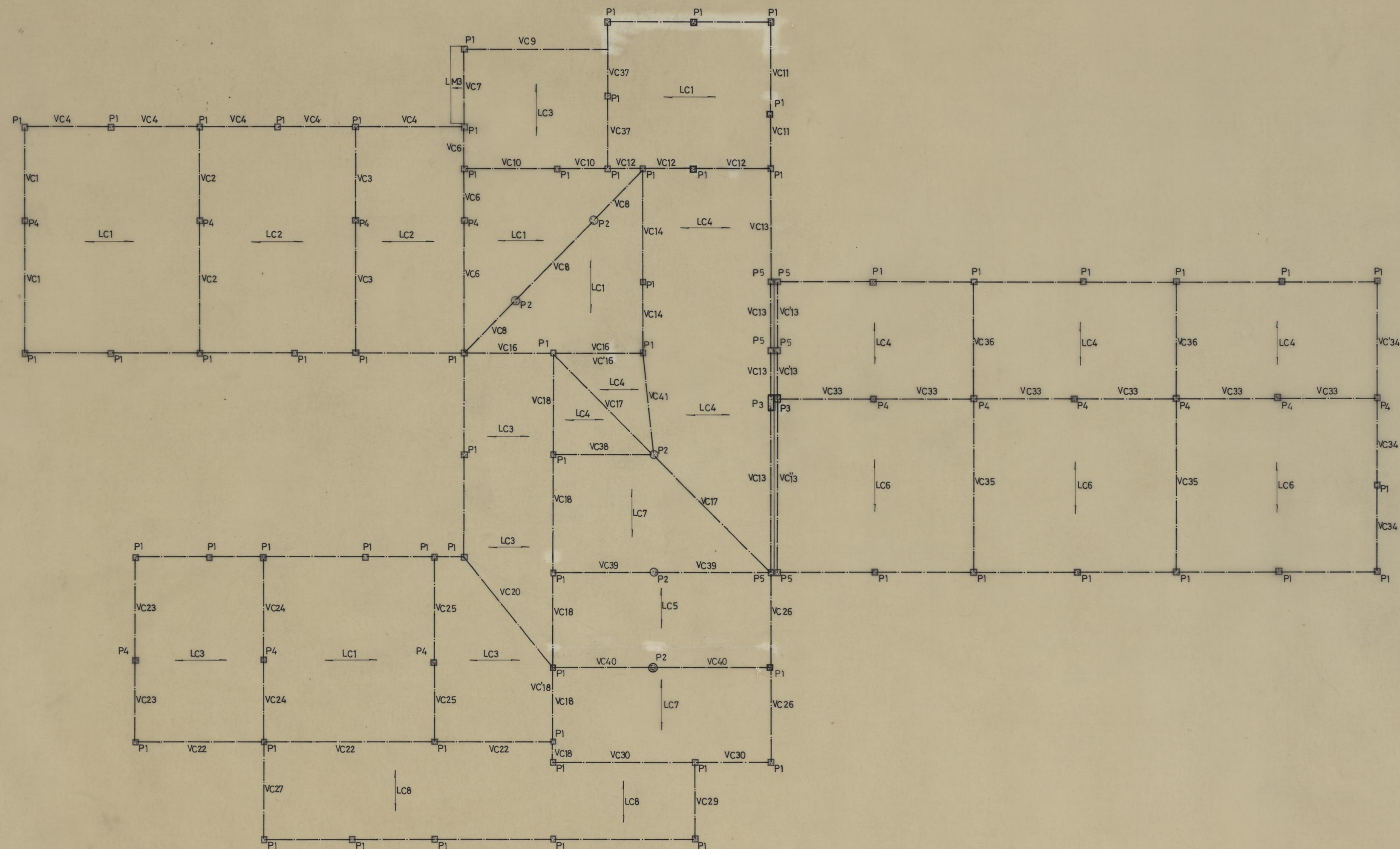
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|-------------------------------------------------------------------------|--|-----------------------------------------|--|
| CRECHE, JARDIM DE INFÂNCIA E CENTRO DE DIA DE RAINHA D. LEONOR O.D.P.S. |  | CAMARA MUNICIPAL DO PORTO               |  |
| BETÃO ARMADO                                                            |  | DIRECÇÃO DOS SERVIÇOS DE OBRAS D. C. C. |  |
| PLANTA ESTRUTURAL DO 2º PISO<br>CORTE ESTRUTURAL A : A                  |  | DESENHO N.º <b>40 2</b>                 |  |
| O CHEFE                                                                 |  | ESCALAS 1/100                           |  |
| DESENHOU <i>Paulo Pinheiro</i>                                          |  | ANULADO                                 |  |
| PROJECTOU <i>Abel</i>                                                   |  | SUBSTITUÍDO                             |  |
|                                                                         |  | DATA 1995 MAIO                          |  |



**B 25  
A 400 NR**

NOTA: Cotas a rectificar no local

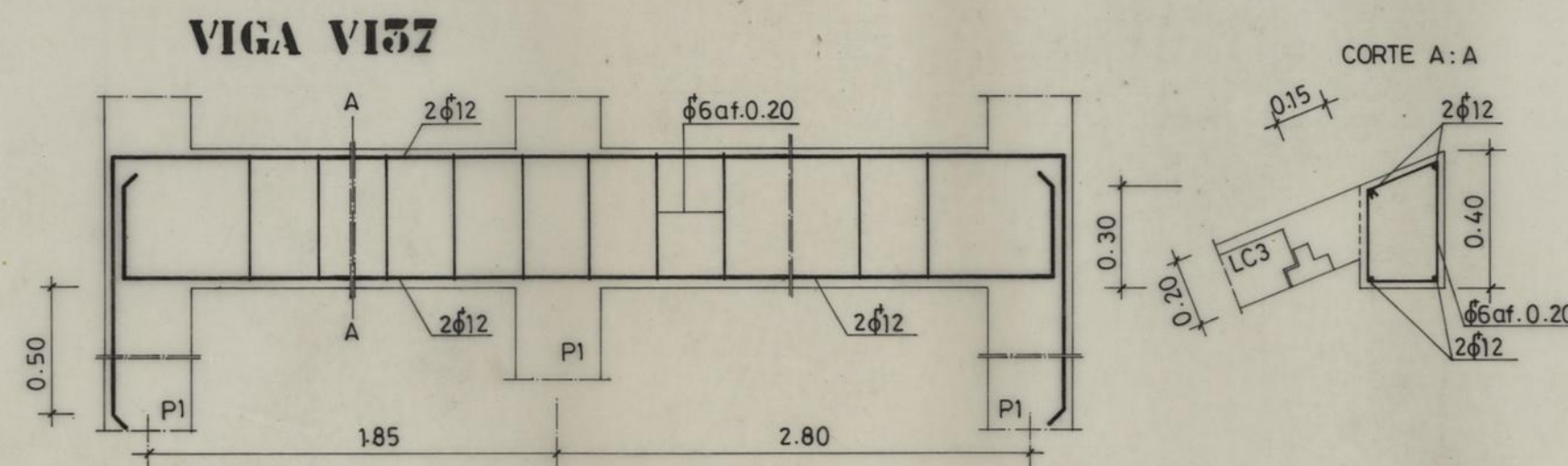
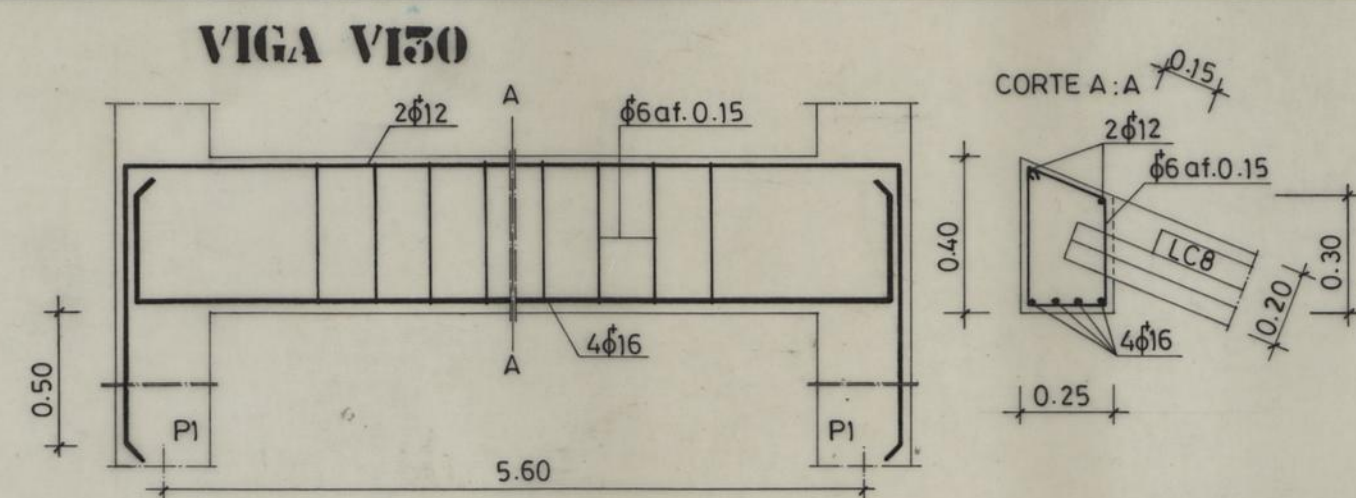
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|------------------------------------------------------------------------|----------|-----------------------------------------|---------|
| CRECHE JARDIM DE INFÂNCIA E CENTRO DE DIA DE RAINHA D. LEONOR-O.D.P.S. |          | CAMARA MUNICIPAL DO PORTO               |         |
| BETÃO ARMADO                                                           |          | DIRECÇÃO DOS SERVIÇOS DE OBRAS D. C. C. |         |
| PLANTA ESTRUTURAL DO TECTO E PORMENORES DA CENTRAL TÉRMICA             |          | DESENHO N.º                             | 41 3    |
|                                                                        |          | ESCALAS                                 | 1 / 100 |
| O CHEFE                                                                | DESENHOU | ANULADO                                 |         |
|                                                                        | PROJECOU | SUBSTITUÍDO                             |         |
|                                                                        |          | DATA 1995 MAIO                          |         |



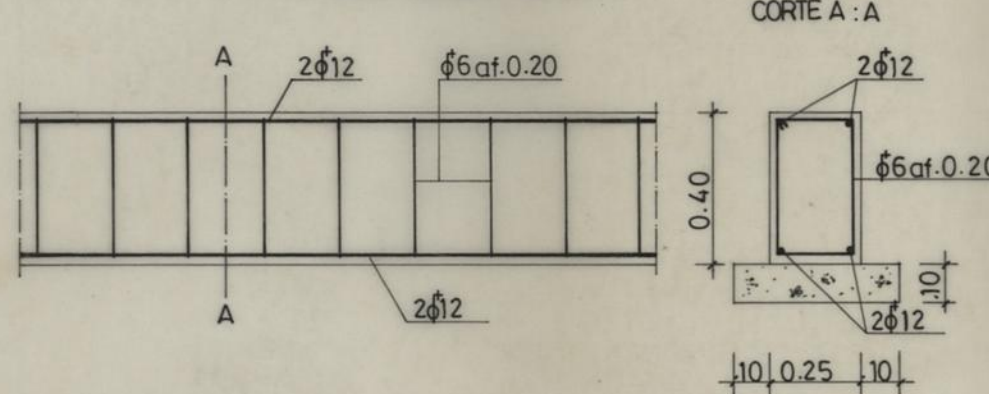
**B 25**  
**A 400NR**

NOTA: Cotas a rectificar no local

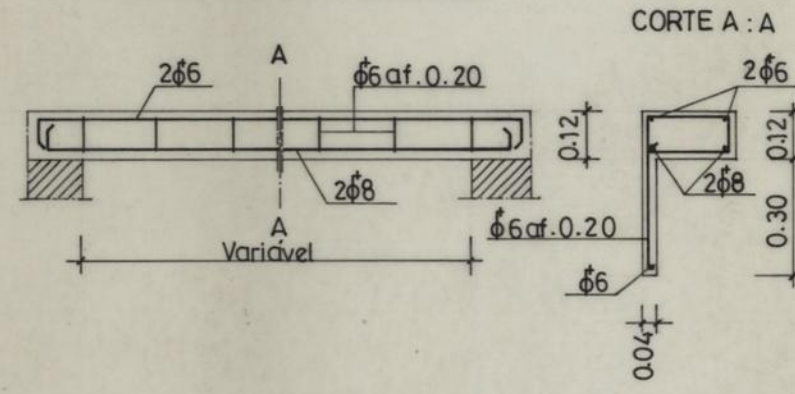
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|---------------------------------------------------------------------------|-------------------------------|-----------------------------------------|--|
| CRECHE, JARDIM DE INFÂNCIA E CENTRO DE DIA DE RAINHA D. LEONOR-O.D. P. S. |                               | CAMARA MUNICIPAL DO PORTO               |  |
| DIRECÇÃO DOS SERVIÇOS DE OBRAS D. C. C.                                   |                               | DIRECÇÃO DOS SERVIÇOS DE OBRAS D. C. C. |  |
| BETÃO ARMADO                                                              |                               | DESENHO N.º <b>42 4</b>                 |  |
| PLANTA ESTRUTURAL DA COBERTURA                                            |                               | ESCALAS 1 / 100                         |  |
| O CHEFE                                                                   | DESENHOU <i>Tamara Pádua</i>  | ANULADO                                 |  |
| <i>[Signature]</i>                                                        | PROJECTOU <i>Alvaro P. 2.</i> | SUBSTITUÍDO                             |  |
|                                                                           |                               | DATA 1995 MAIO                          |  |



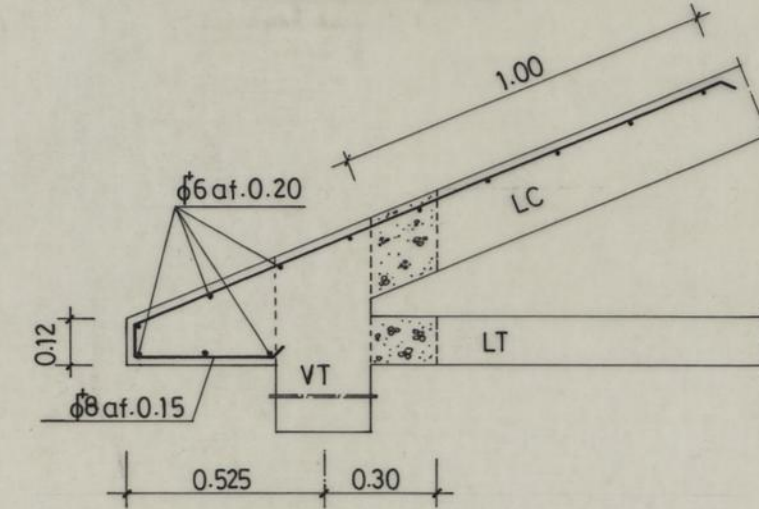
PORMENOR DA VIGA LINTEL VL=VL1



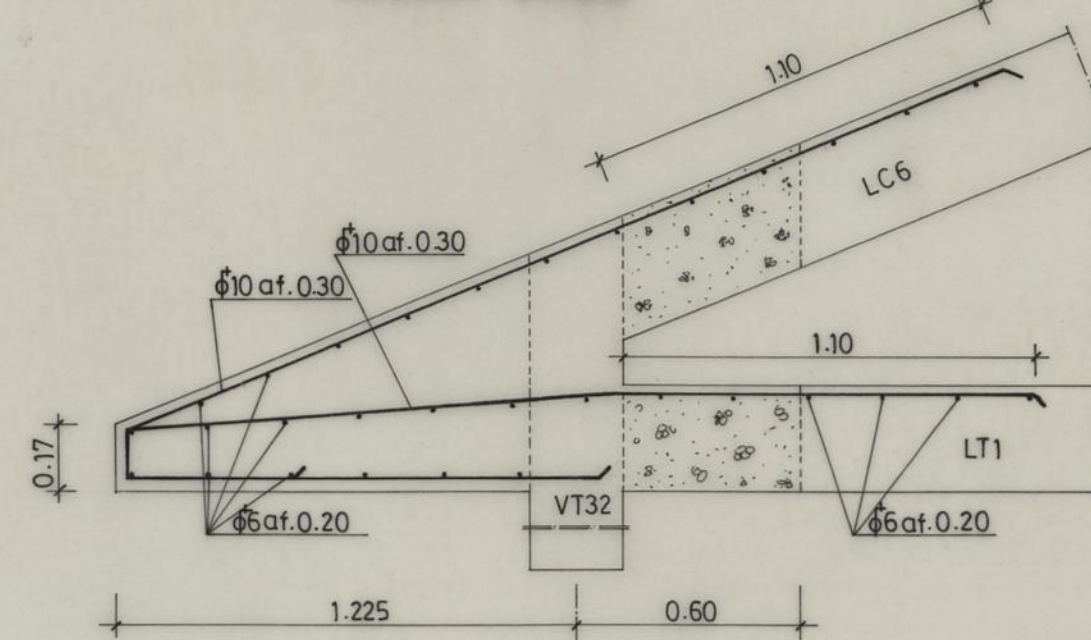
PORMENOR DE PADIEIRAS



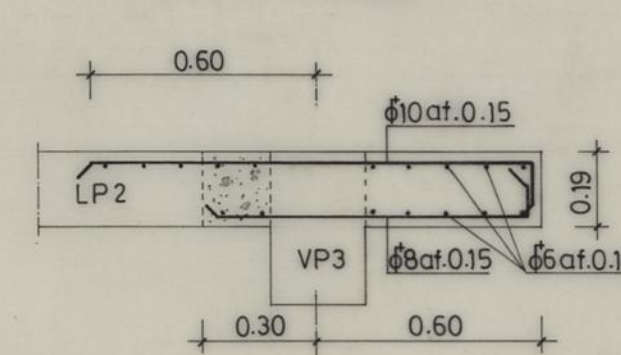
LAJE LM1



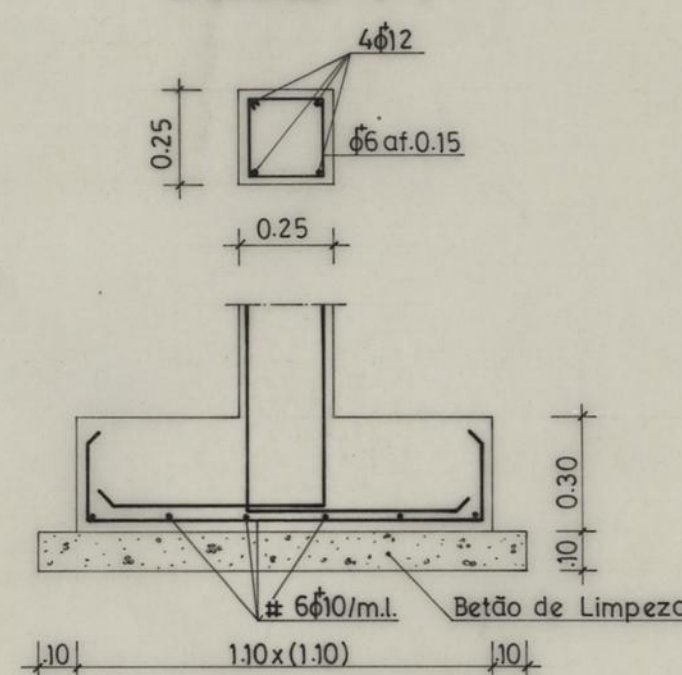
LAJE LM2



LAJE LM4

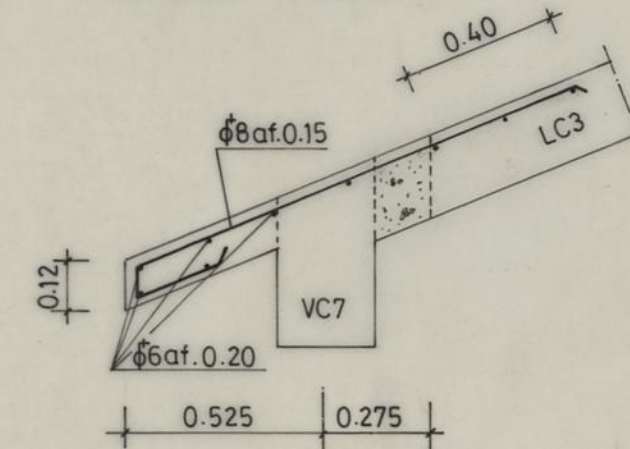


PILAR P1

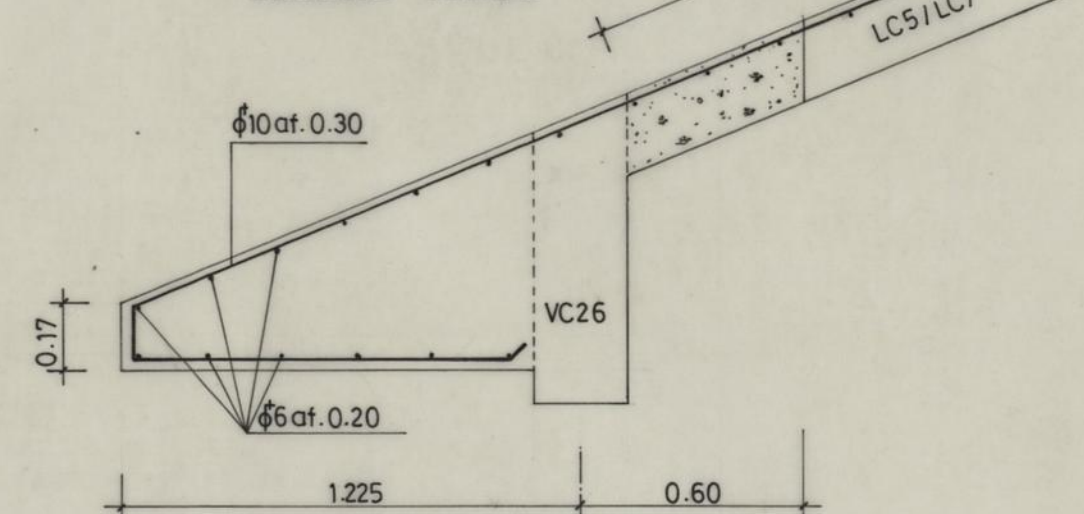


SAPATA S1

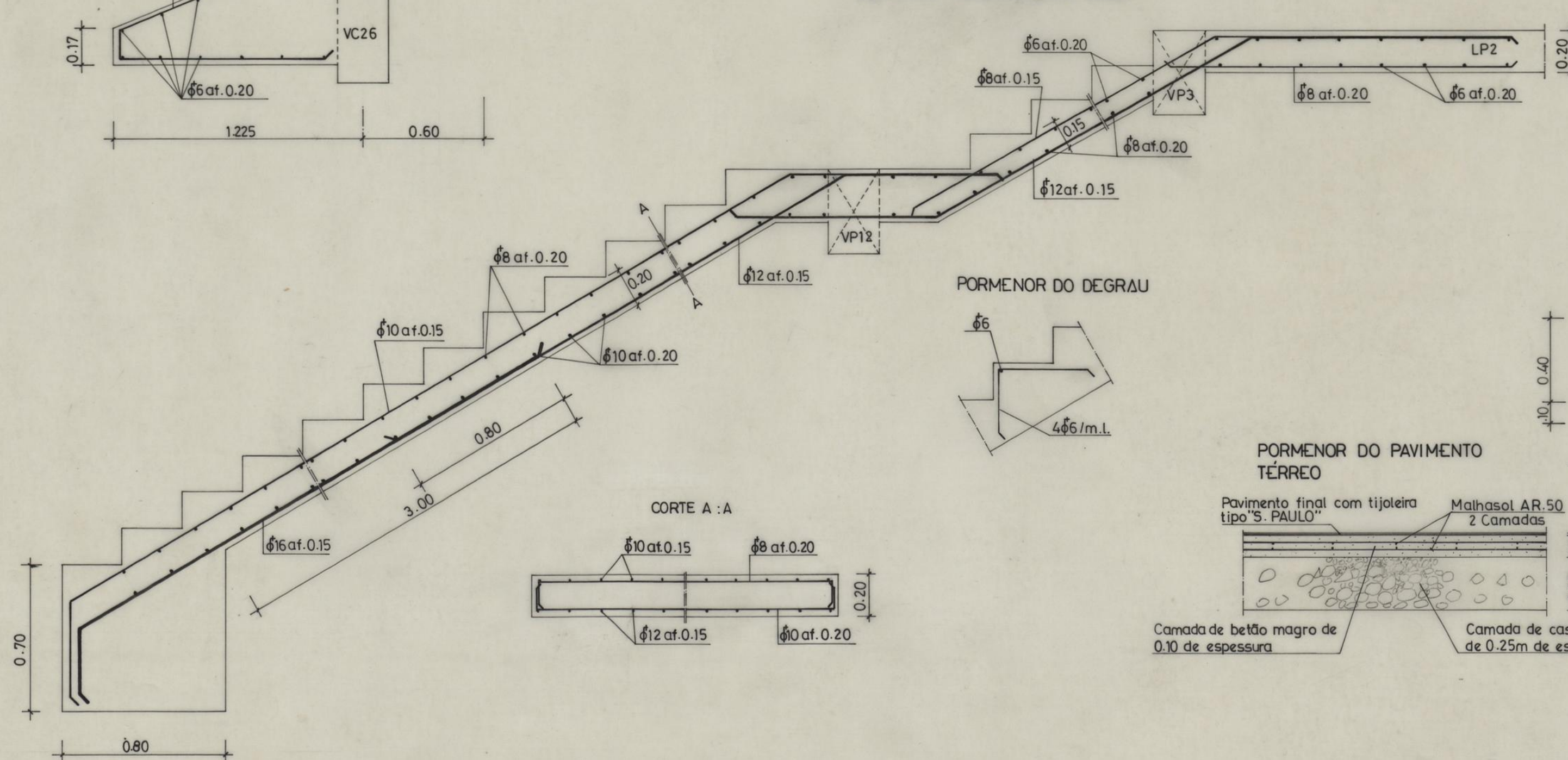
LAJE LM5



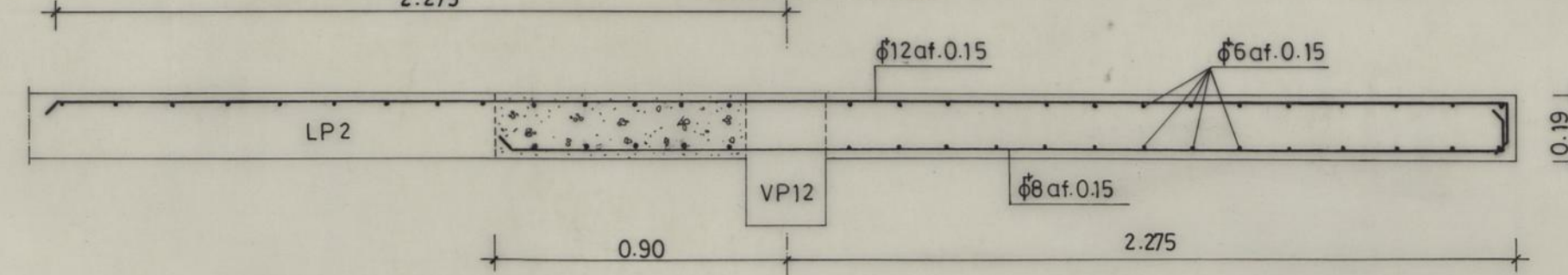
LAJE LM6



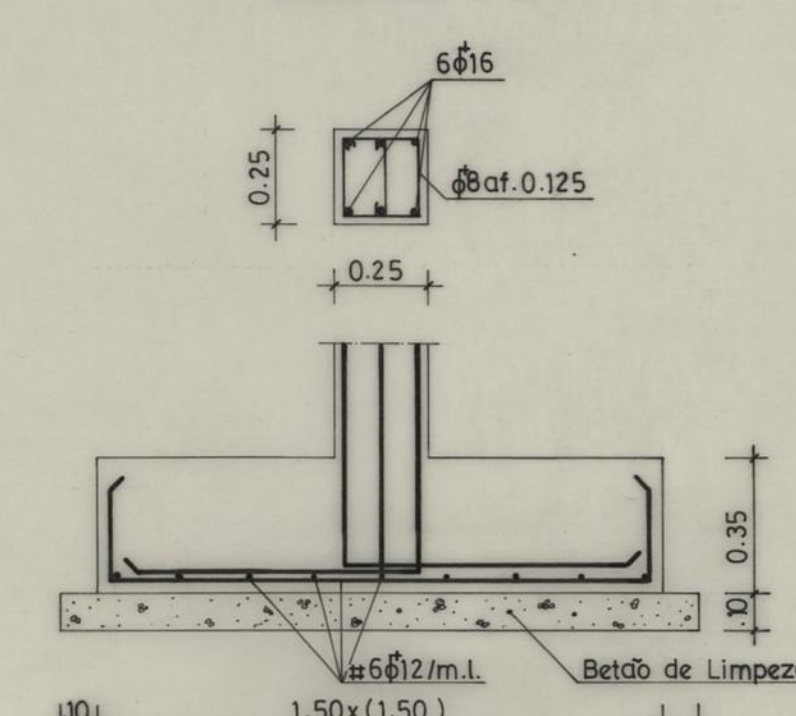
LAJE ESCADA LE



LAJE LM5

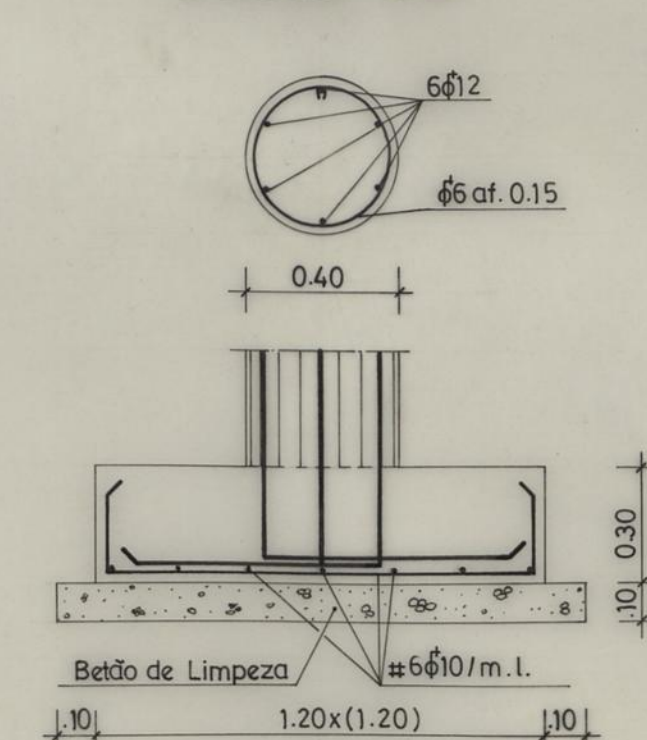


PILAR P4



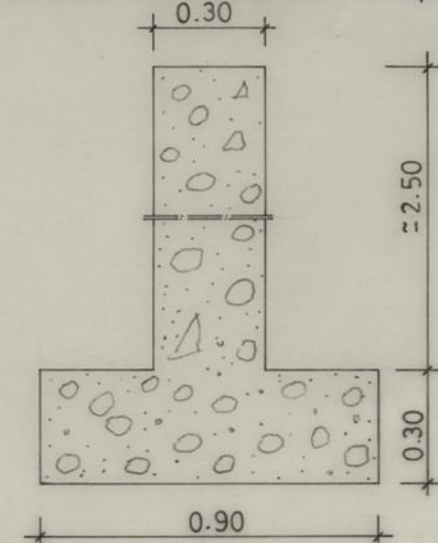
SAPATA S4

PILAR P2

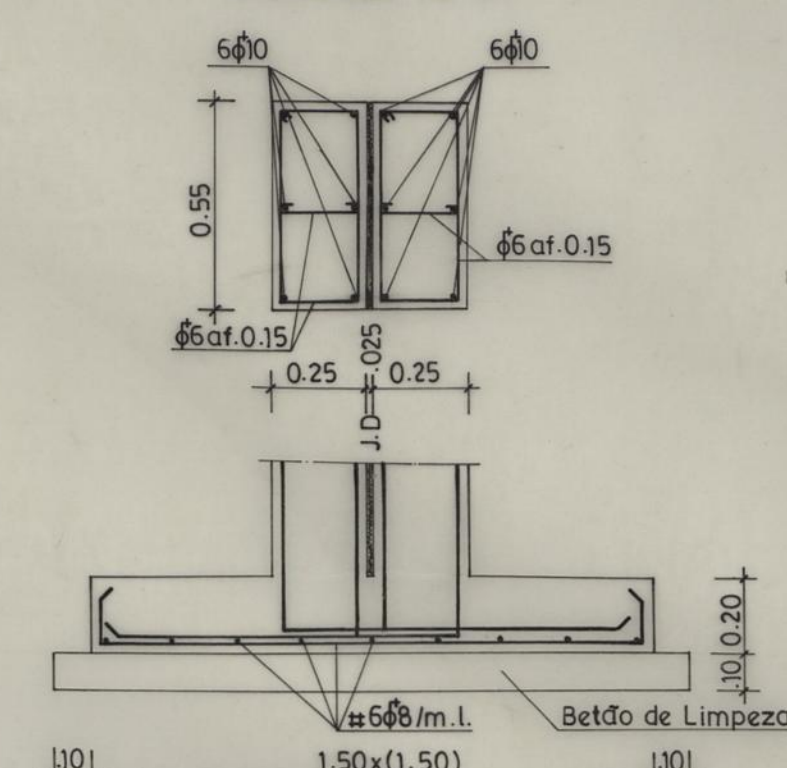


SAPATA S2

MURO S. B. CICLÓPICO  
(SEM EFEITO VER DESENHO 43A/5A)

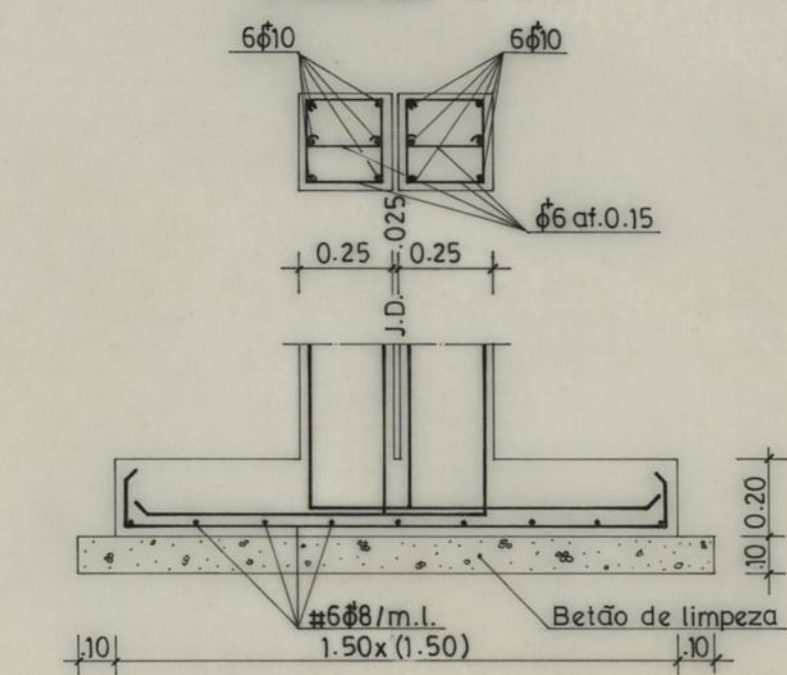


PILAR P3



SAPATA S3

PILAR P5



SAPATA S5

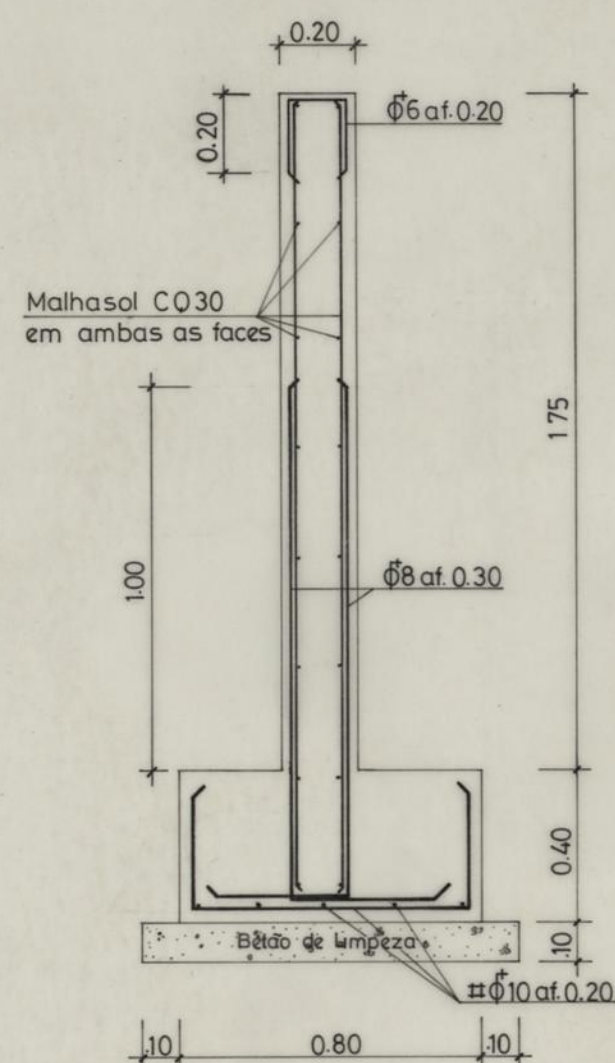
B 25  
A 400NR

Nota: Cotas a rectificar no local

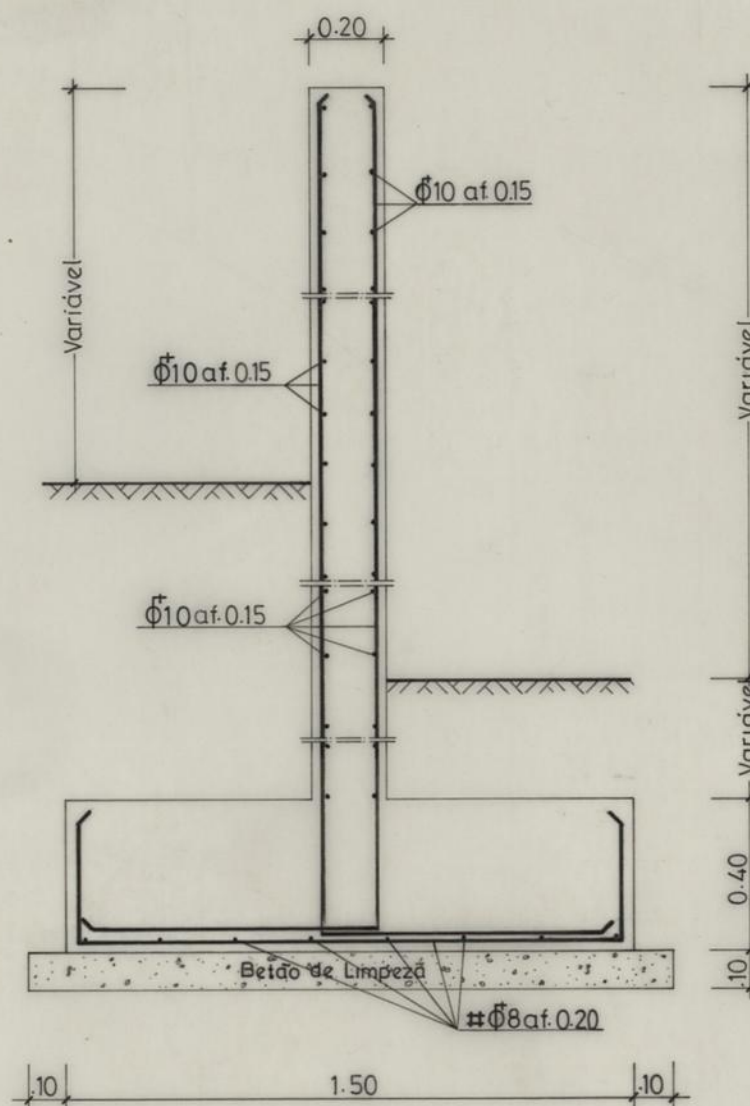
| MAPA DE LAJES ALIGEIRADAS |             |                           |                         |              |                  |                          |         |                    |                          |
|---------------------------|-------------|---------------------------|-------------------------|--------------|------------------|--------------------------|---------|--------------------|--------------------------|
| DESIGNAÇÃO                | VÃO TEÓRICO | MOMENTO EM SERVIÇO (KN/m) | ESFORÇO TRANSVERSO (KN) | TIPO P.C.L.  | ALTURA TOTAL (m) | ARMADURA DE DISTRIBUIÇÃO | TARUGOS | ARMADURA DE APOIOS | ARMADURA DE CONTINUIDADE |
| LC1                       | 6.90        | 52.40                     | 30.40                   | 2P3-38x25-28 | 0.28             | AR.50                    | 3       | 2φ10               | 1.70                     |
| LC2                       | 4.30        | 15.10                     | 14.00                   | P2-48x16-20  | 0.20             | AR.50                    | 2       | 1φ8                | φ8 at 0.25               |
| LC3                       | 4.75        | 18.40                     | 15.50                   | P2-48x16-20  | 0.20             | AR.50                    | 2       | 1φ8                | φ8 at 0.25               |
| LC4                       | 5.10        | 24.40                     | 19.10                   | 2P3-38x16-20 | 0.20             | AR.50                    | 3       | 2φ10               | φ8 at 0.25               |
| LC5                       | 3.72        | 10.10                     | 10.90                   | P2-48x12-15  | 0.15             | AR.50                    | 1       | 1φ10               | φ8 at 0.25               |
| LC6                       | 7.12        | 59.60                     | 33.50                   | P3-23x25-30  | 0.30             | AR.55                    | 3       | 2φ10               | φ8 at 0.25               |
| LC7                       | 4.55        | 16.90                     | 14.80                   | P2-48x16-20  | 0.20             | AR.50                    | 2       | 1φ8                | φ8 at 0.25               |
| LC8                       | 4.10        | 12.90                     | 12.60                   | P2-48x16-20  | 0.20             | AR.50                    | 1       | 1φ10               | φ8 at 0.25               |
| LT1                       | 6.90        | 60.40                     | 35.00                   | 2P3-38x25-28 | 0.28             | AR.55                    | 3       | 2φ10               | φ8 at 0.25               |
| LT2                       | 4.75        | 21.20                     | 17.80                   | P3-48x16-19  | 0.19             | AR.50                    | 1       | 1φ10               | φ8 at 0.25               |
| LT3                       | 3.80        | 13.00                     | 13.70                   | P2-48x12-15  | 0.15             | AR.50                    | 1       | 1φ10               | φ8 at 0.25               |
| LT4                       | 6.40        | 46.90                     | 29.30                   | P3-38x25-28  | 0.28             | AR.50                    | 2       | 2φ8                | φ8 at 0.25               |
| LT5                       | 5.00        | 24.60                     | 19.70                   | P3-48x16-20  | 0.20             | AR.50                    | 2       | 1φ10               | φ8 at 0.25               |
| LP1                       | 6.30        | 53.10                     | 33.70                   | 2P3-38x21-25 | 0.25             | AR.50                    | 3       | 2φ10               | φ8 at 0.25               |
| LP2                       | 3.90        | 21.00                     | 21.40                   | P2-38x16-19  | 0.19             | AR.50                    | 1       | 1φ10               | φ8 at 0.25               |

|                                                                                                                                                               |  |                                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------|--|
| CRECHE, JARDIM DE INFÂNCIA E CENTRO DE DIA DE RAINHA D. LEONOR - O.D.P.S.                                                                                     |  | CAMARA MUNICIPAL DO PORTO             |  |
| BETÃO ARMADO                                                                                                                                                  |  | DIRECÇÃO DOS SERVIÇOS DE OBRAS D.C.C. |  |
| DESENHO Nº 43                                                                                                                                                 |  | 5                                     |  |
| VISO, VI37, VL, PORMENOR DE PADIEIRAS, MAPA DE LAJES ALIG., LAJES MACIAS, LAJE ESCADA, PILARES, SAPATAS, MURO SUPORTE, PORMENOR DO PAVIMENTO TERREO, M.S.B.C. |  | ESCALAS 1/20                          |  |
| O CHEFE                                                                                                                                                       |  | ANULADO                               |  |
| DESENHOU                                                                                                                                                      |  | SUBSTITUÍDO                           |  |
| PROJECIONOU                                                                                                                                                   |  | DATA 1995 MAIO                        |  |

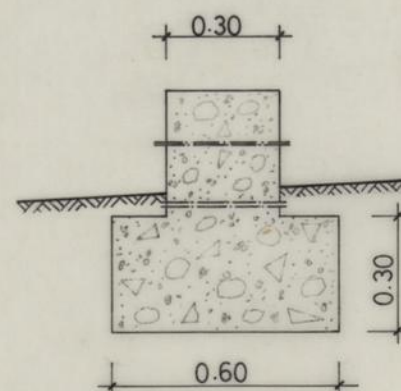
## MURO M1



## MURO SUPORTE MS1



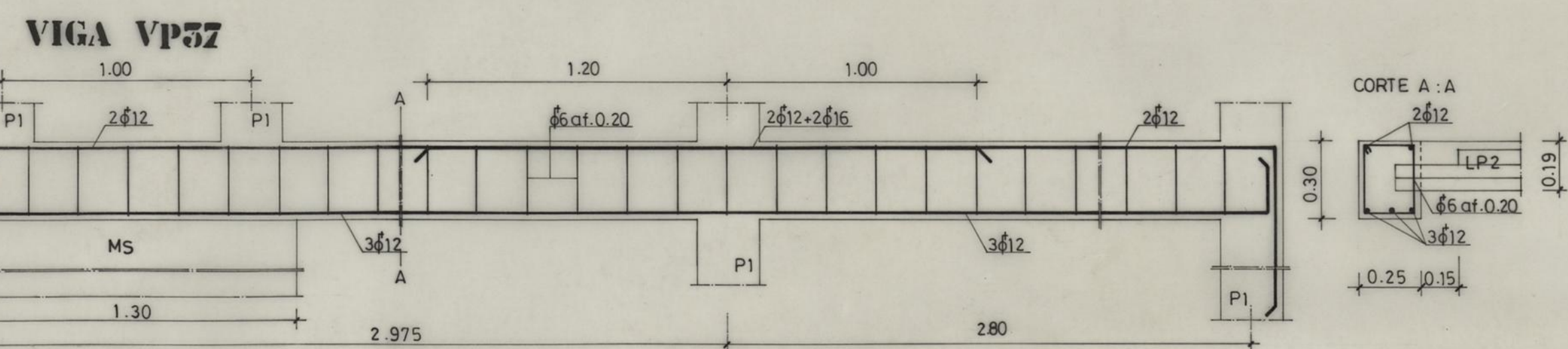
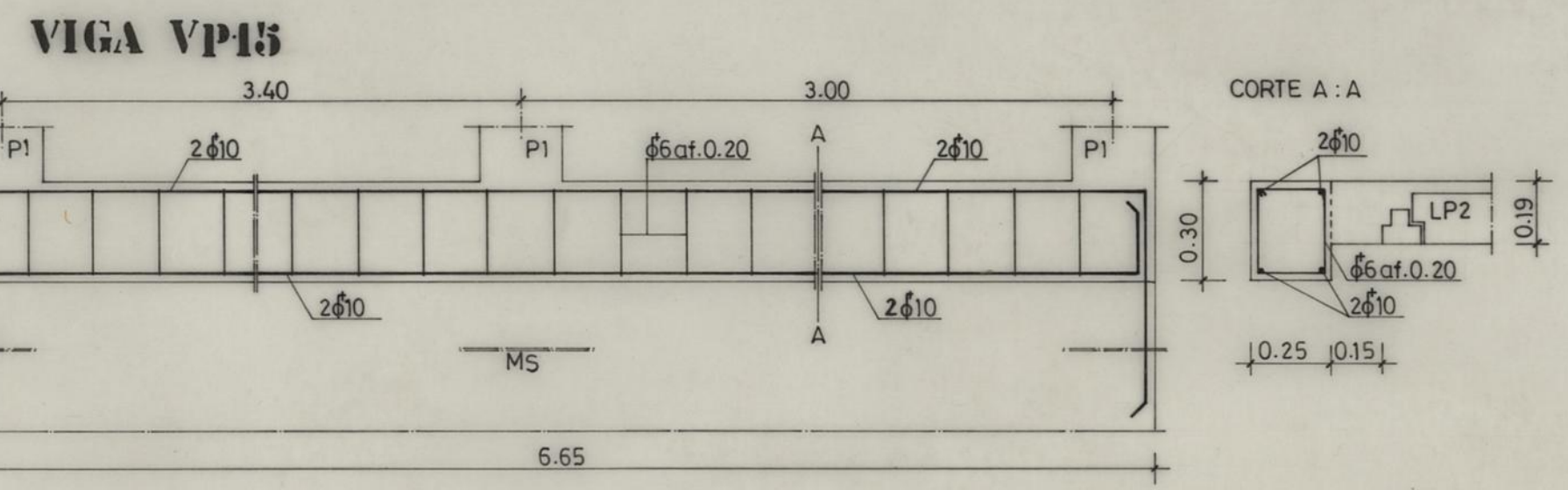
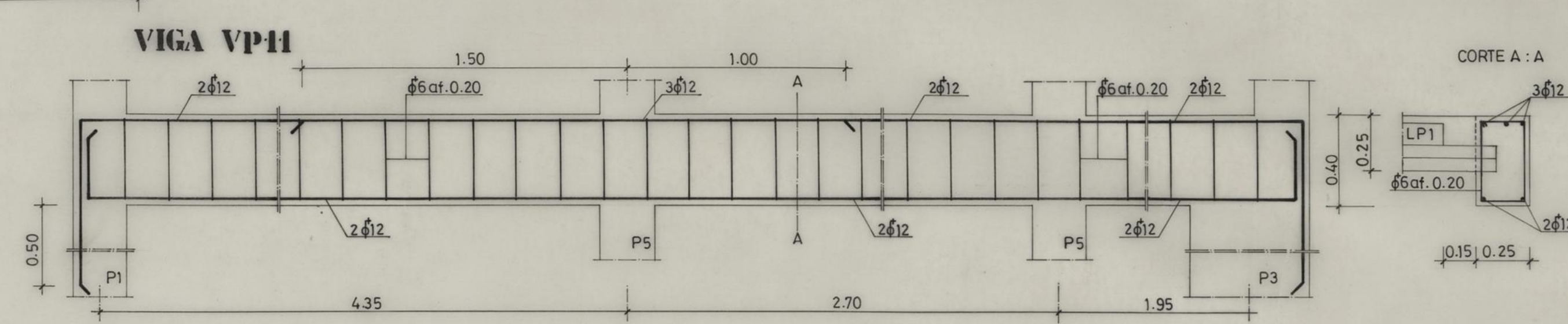
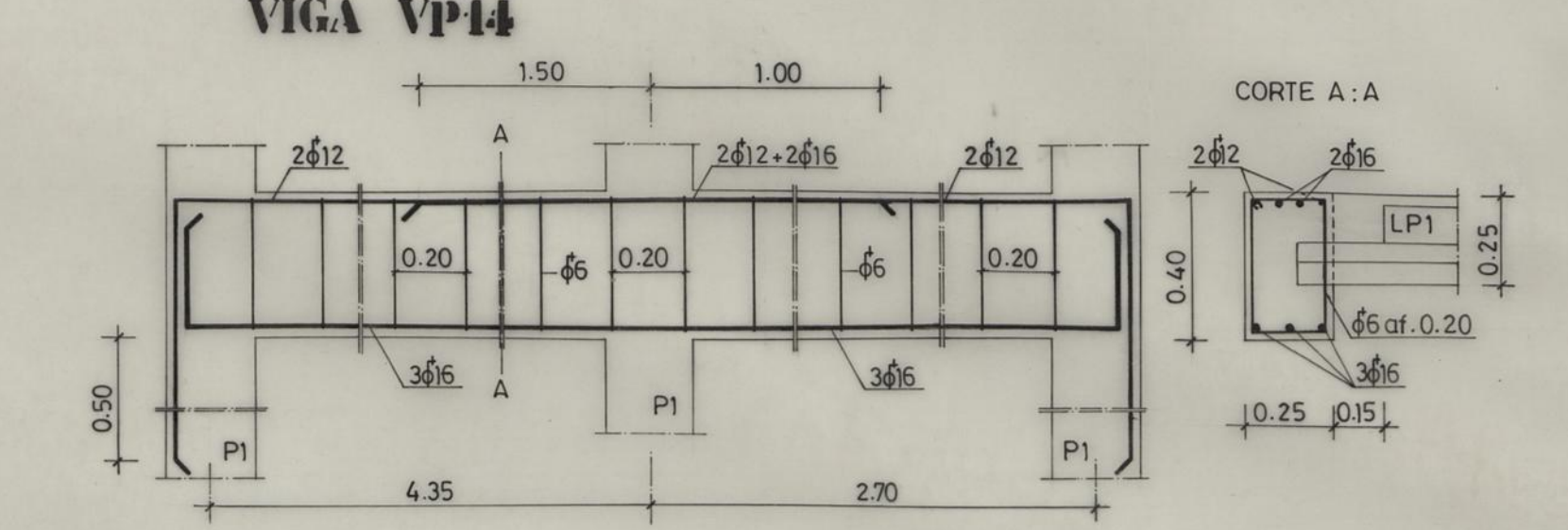
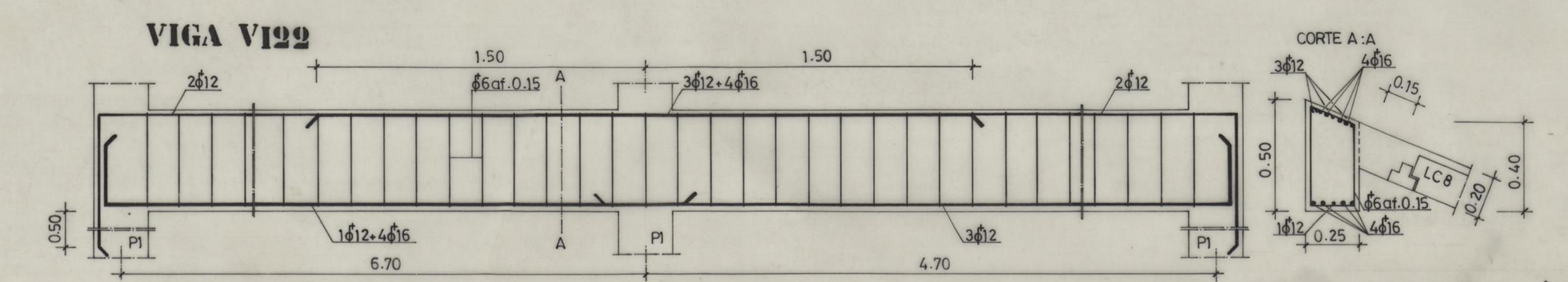
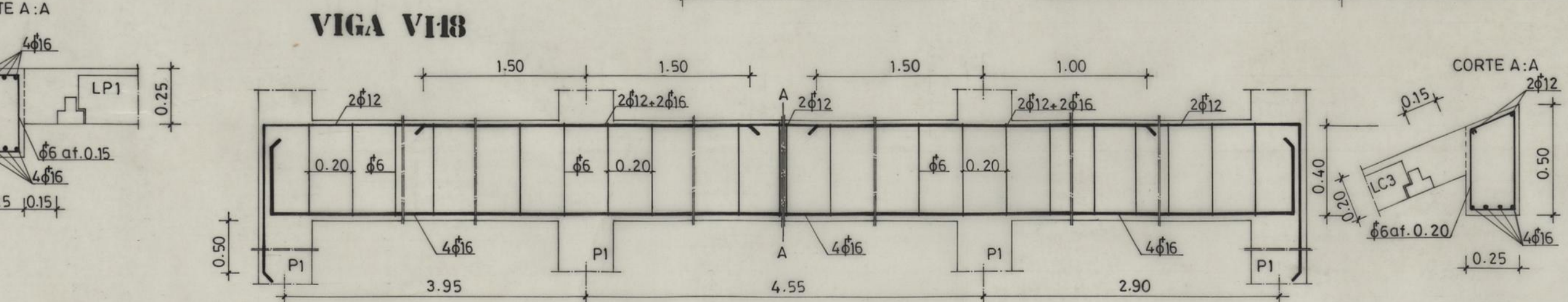
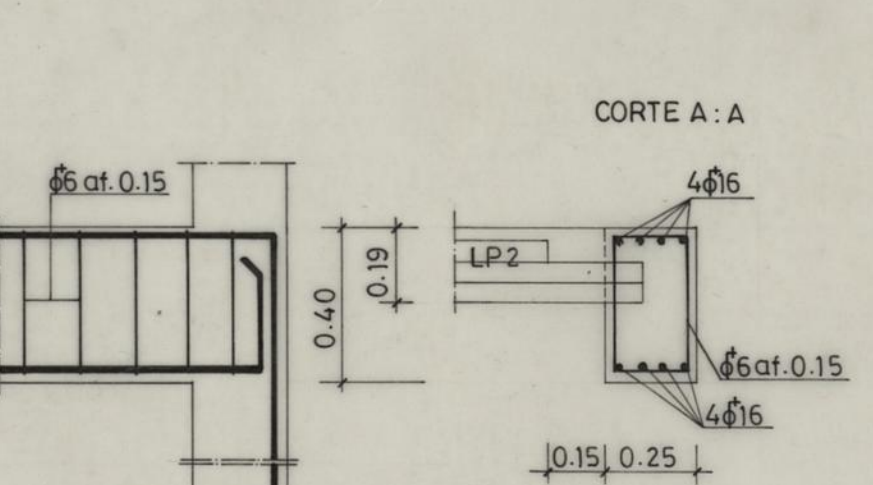
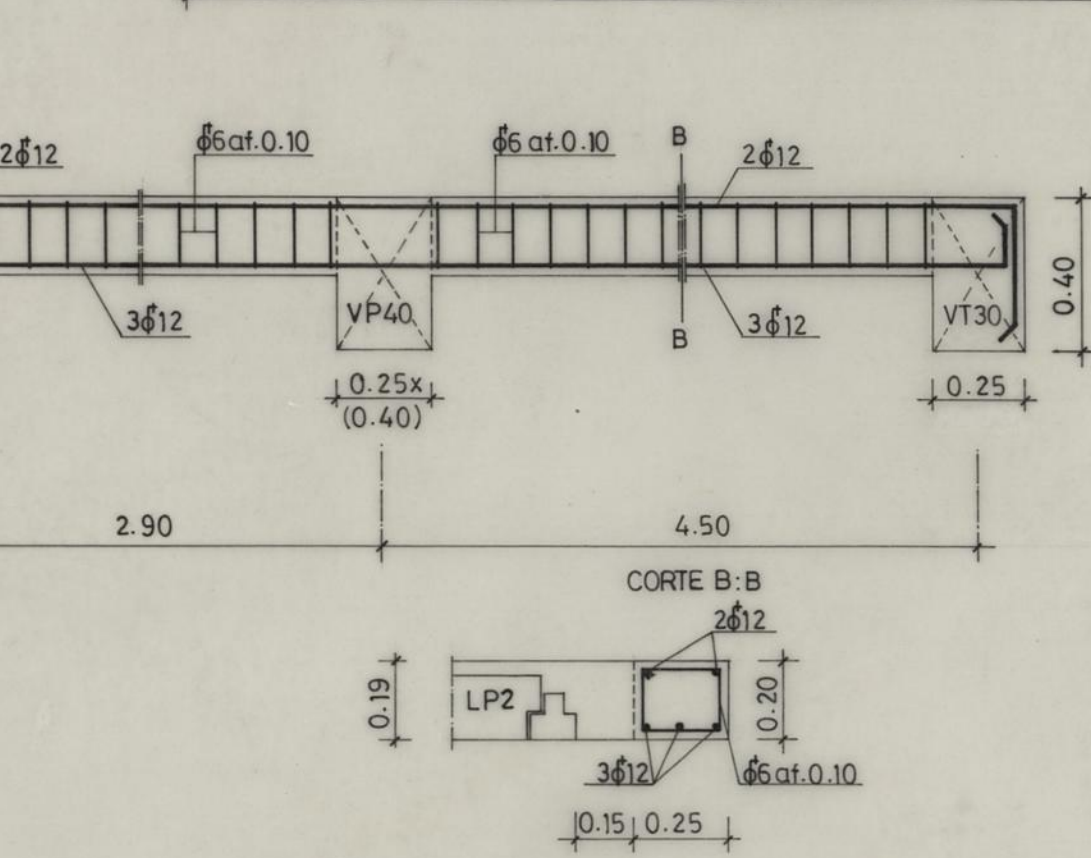
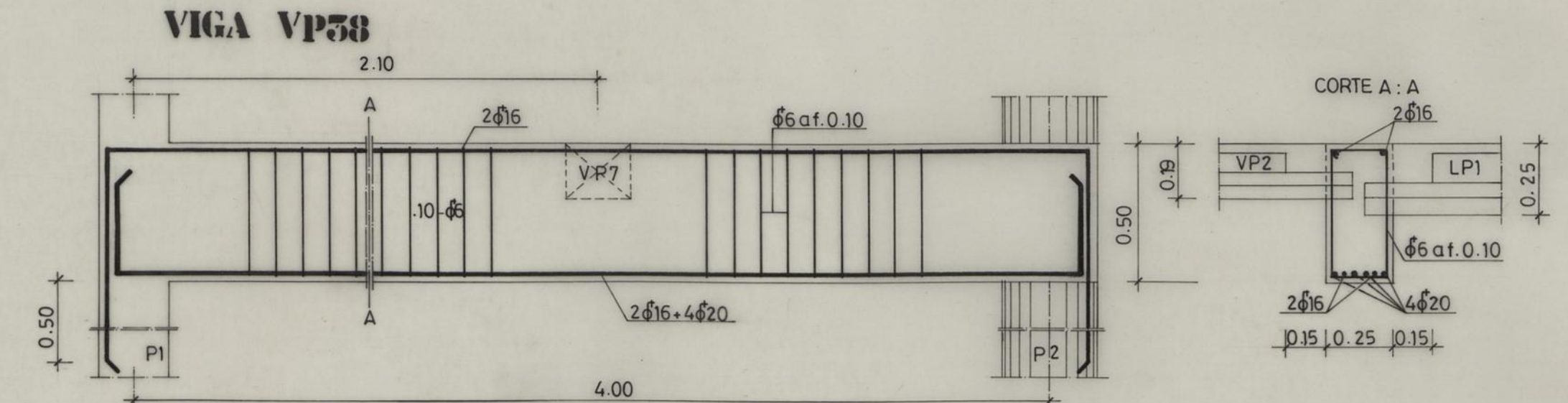
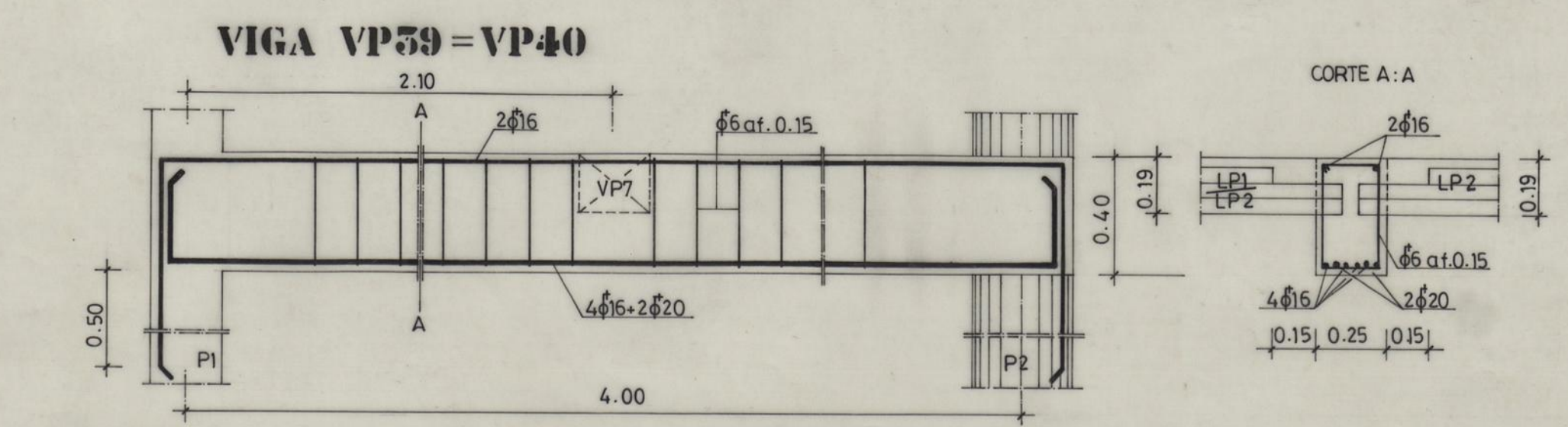
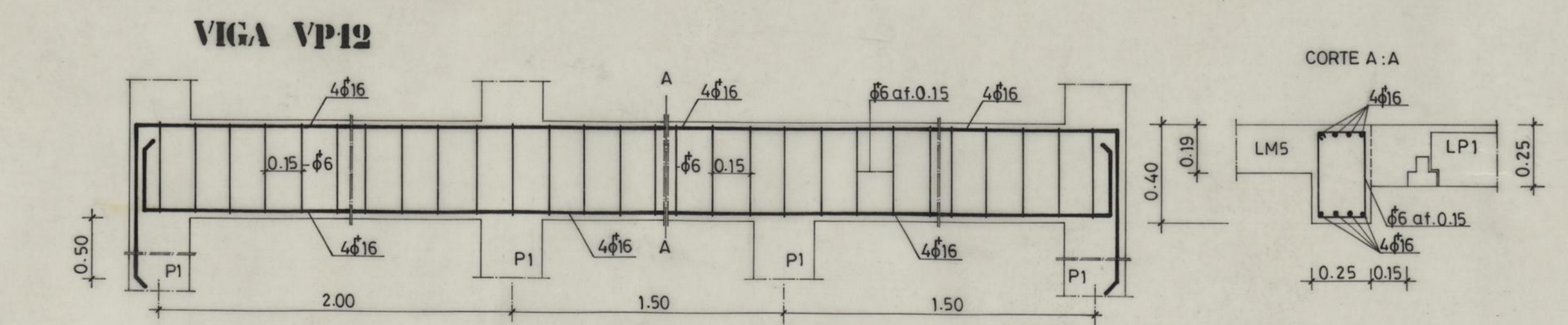
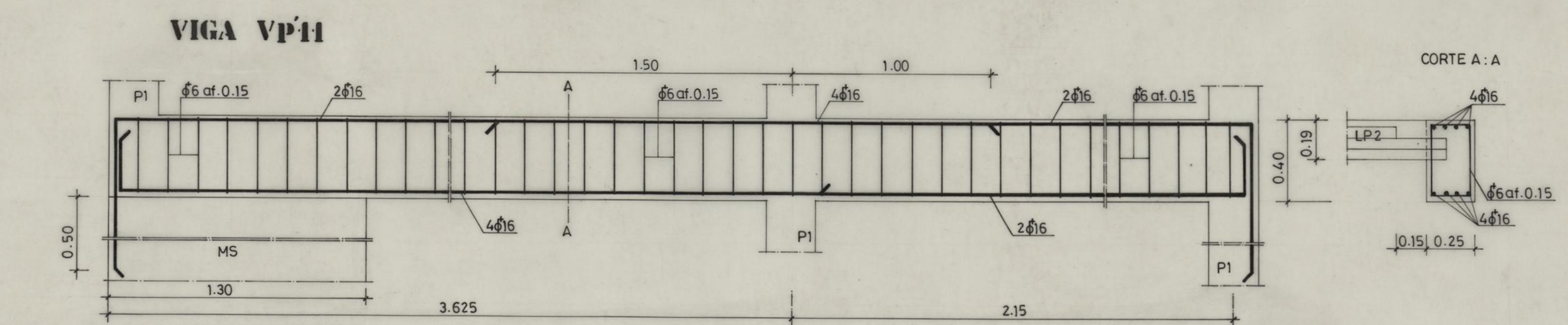
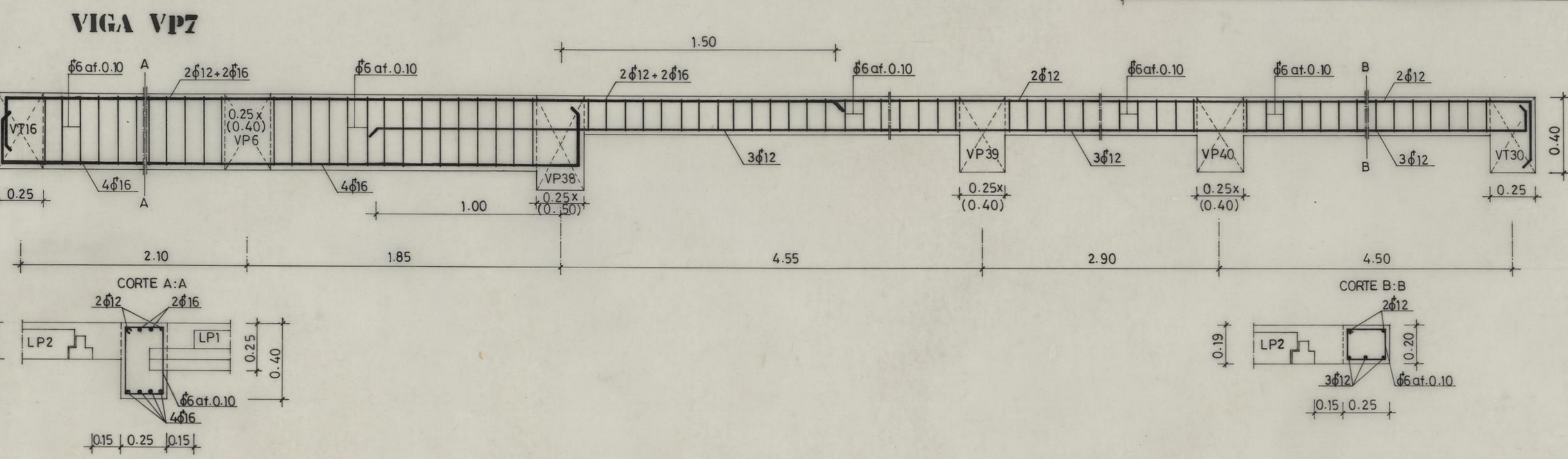
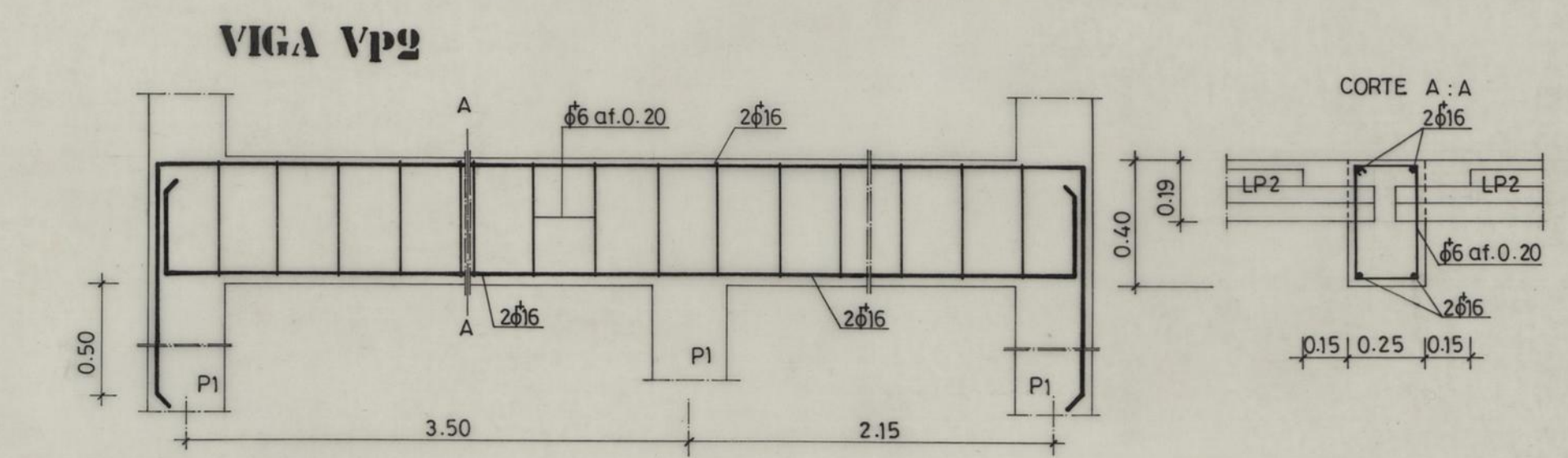
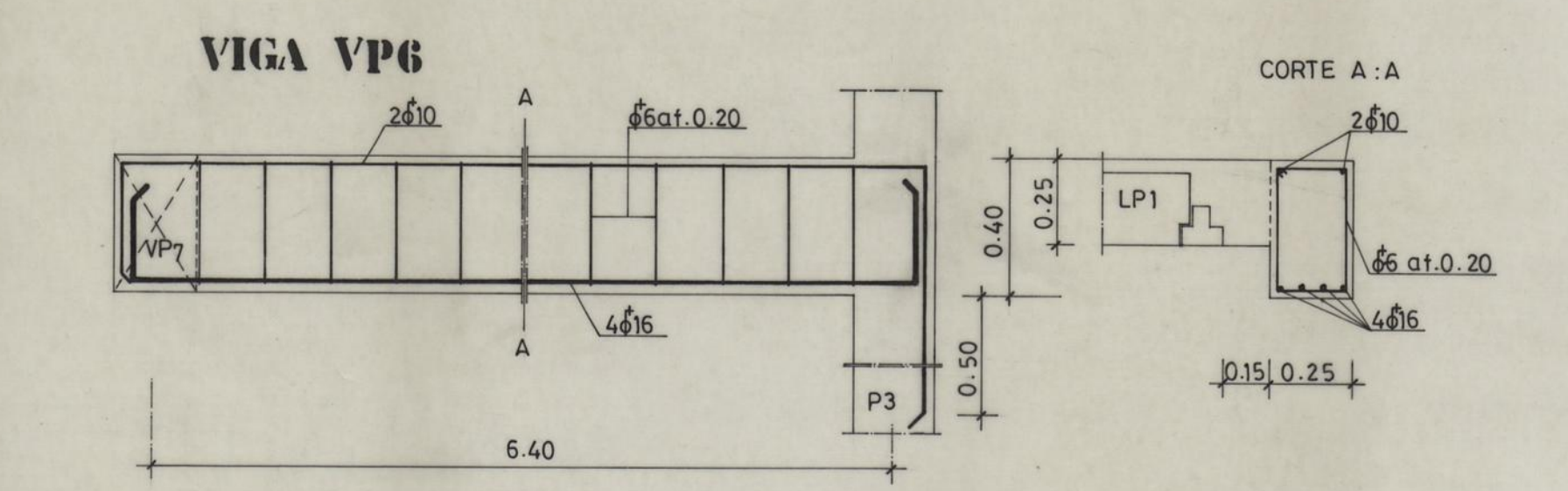
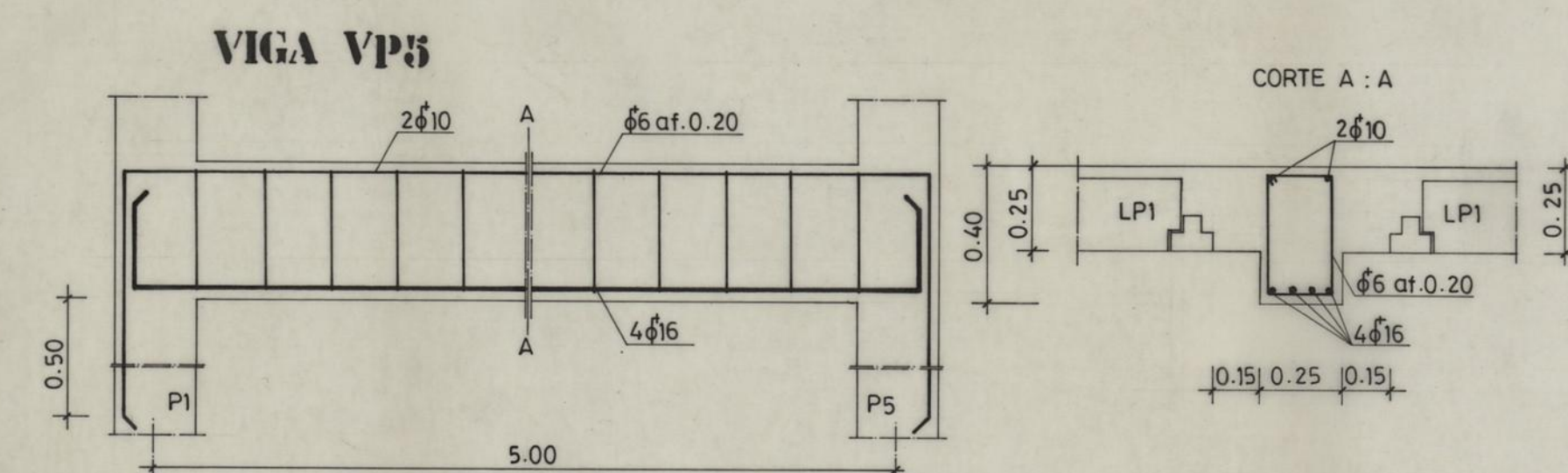
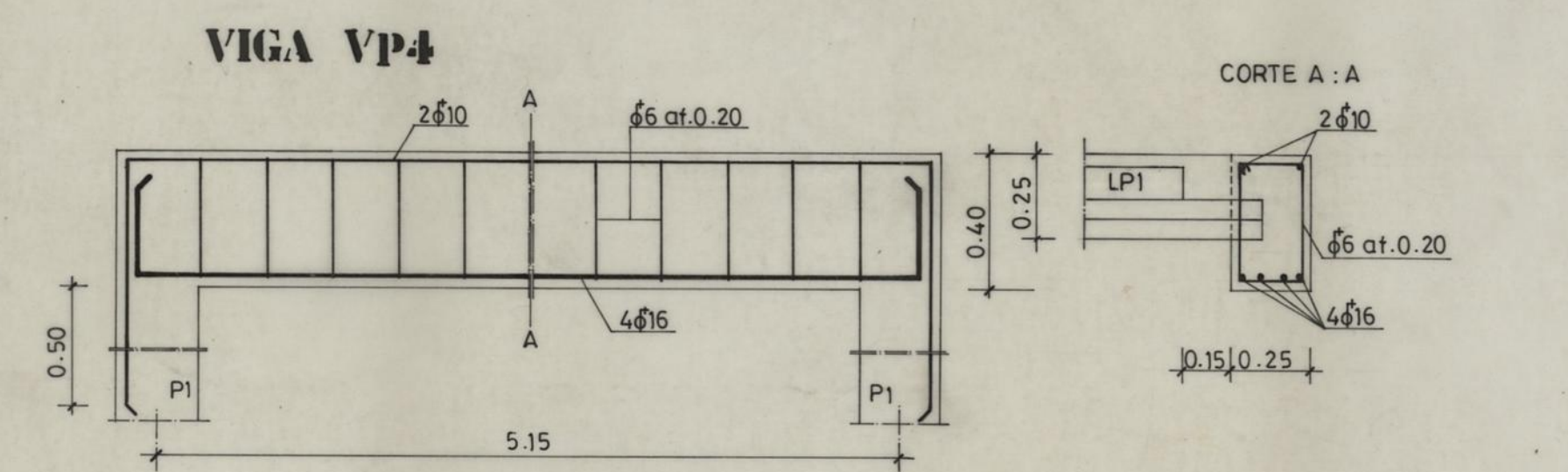
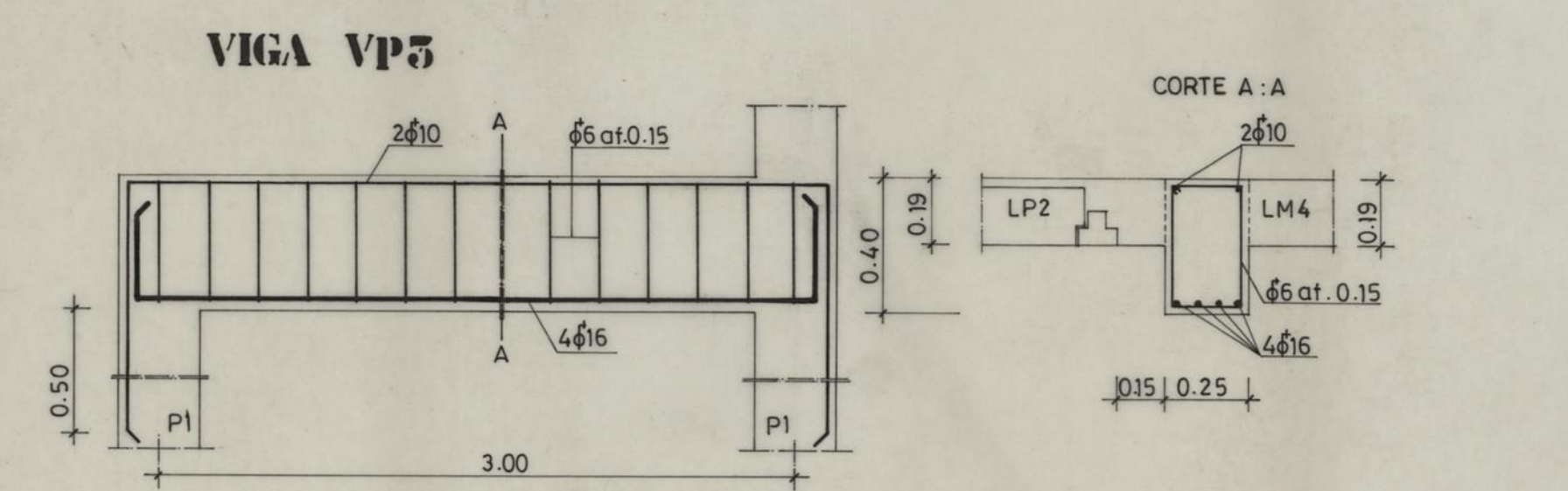
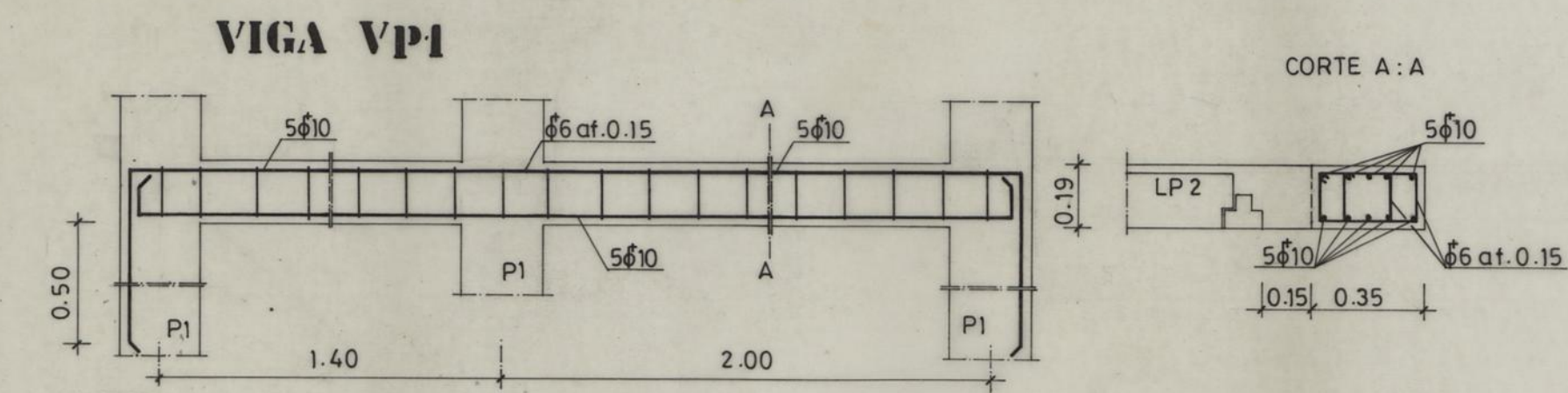
## M. B. CICLÓPICO



**B 25**  
**A 400NR**

Nota: Cotas a rectificar no local

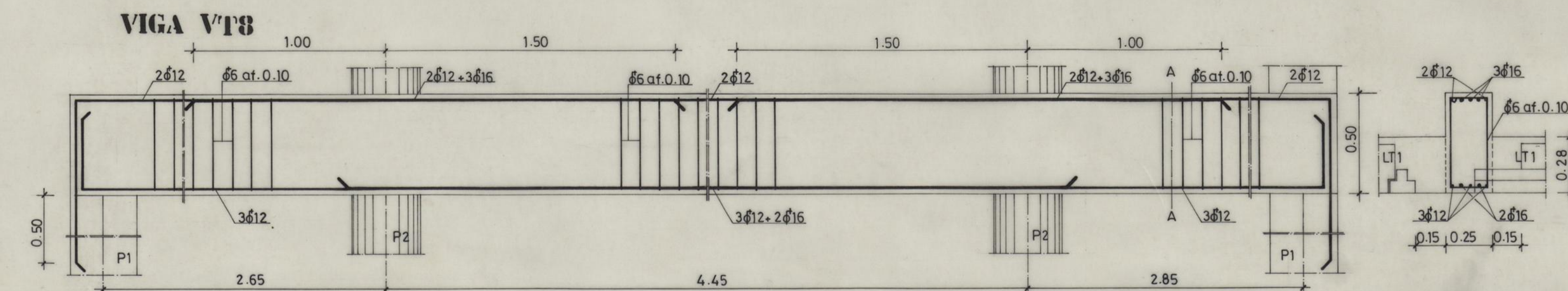
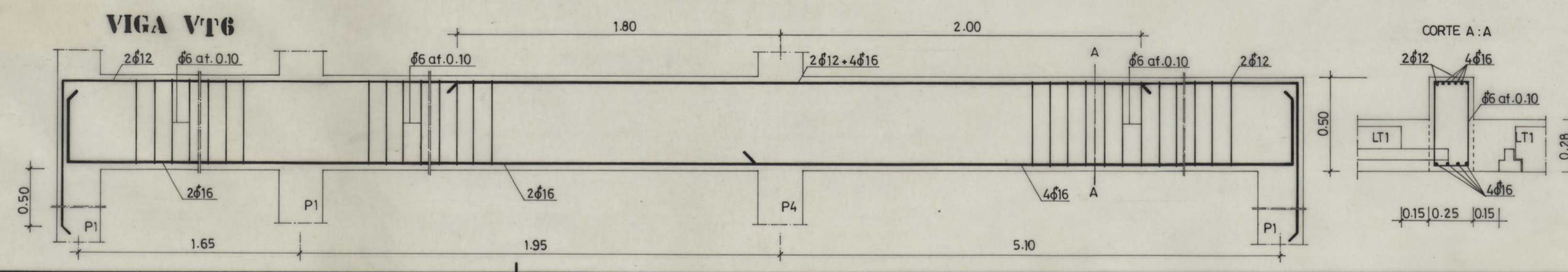
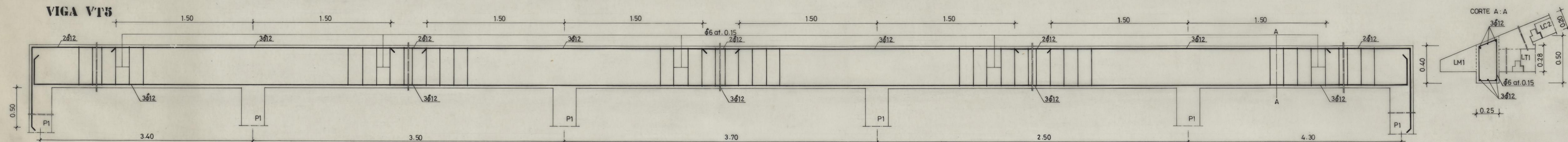
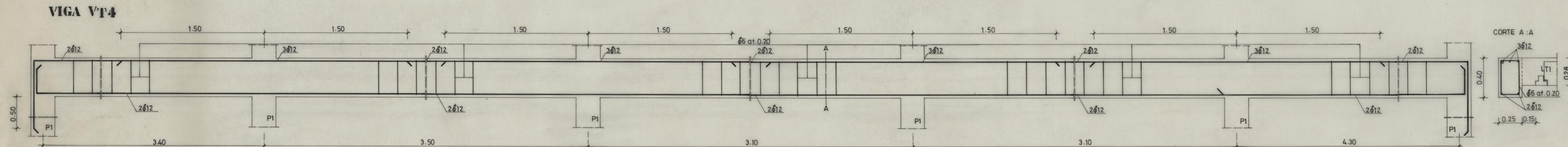
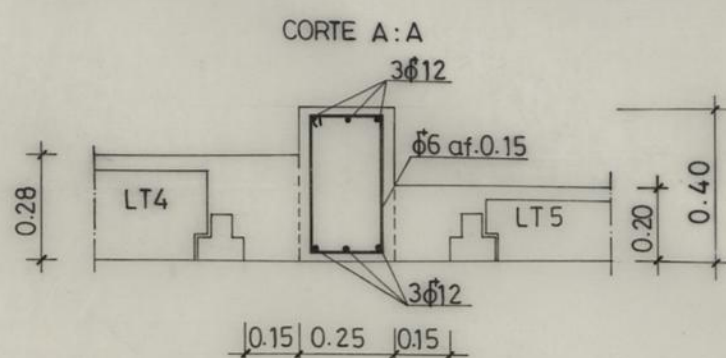
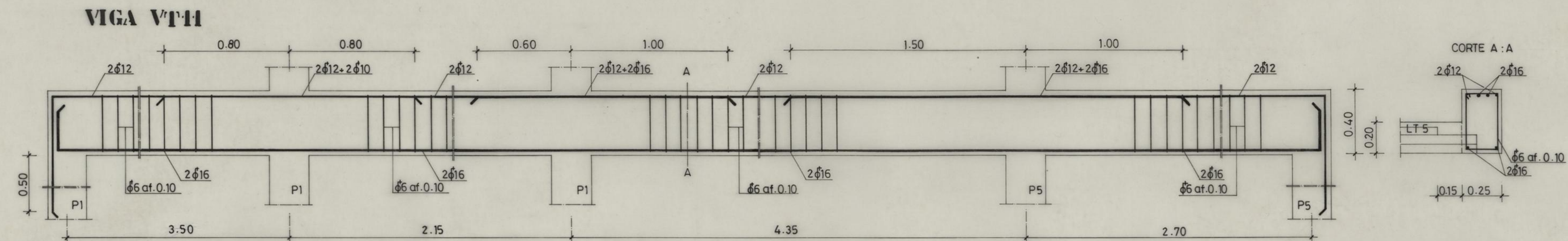
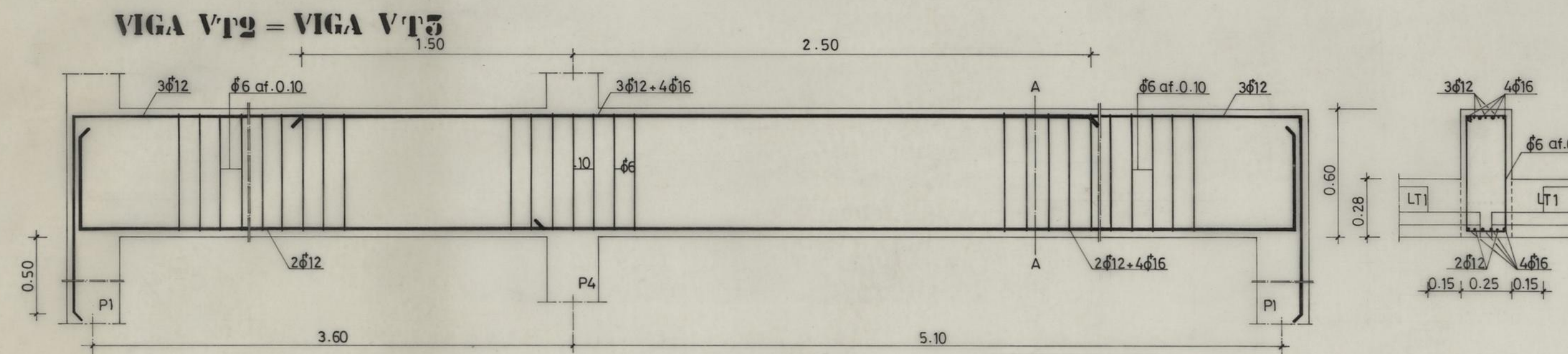
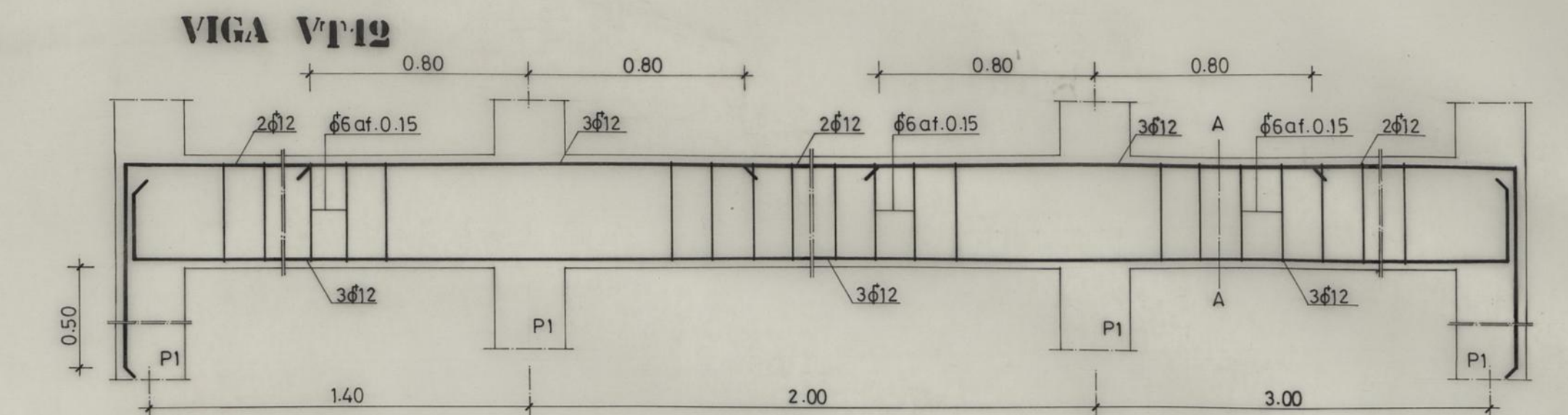
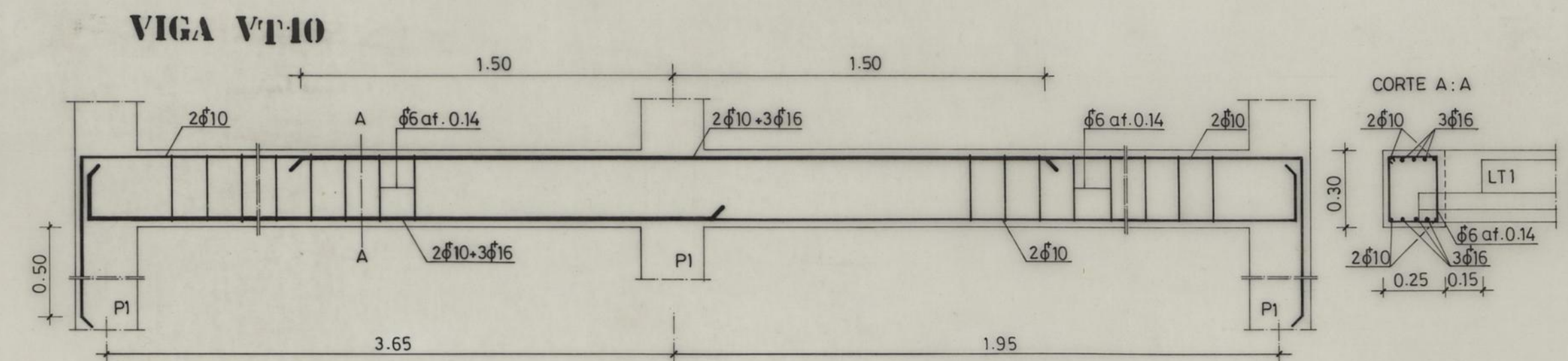
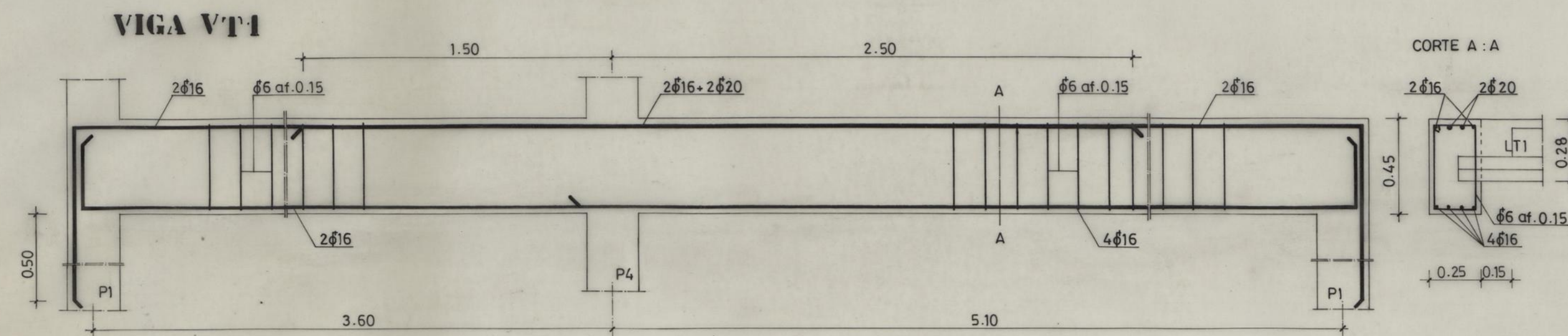
|                                                                           |                        |                                                                          |               |
|---------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------|---------------|
| CRECHE, JARDIM DE INFÂNCIA E CENTRO DE DIA DE RAINHA D. LEONOR — O.D.P.S. |                        | <b>CÂMARA MUNICIPAL DO PORTO</b>                                         |               |
| BETÃO ARMADO                                                              |                        | DIRECÇÃO MUNICIPAL DE EQUIPAMENTOS E SERVIÇOS GERAIS<br>D. M. CONSTRUÇÃO |               |
| MURO M1, MURO SUPORTE MS1 E MURETE EM BETÃO CICLÓPICO                     |                        | DESENHO N.º                                                              | <b>43A 5A</b> |
|                                                                           |                        | ESCALAS                                                                  | 1 / 20        |
| O CHEFE                                                                   | DESENHOU               | ANULADO                                                                  |               |
| <i>[Signature]</i>                                                        | <i>Tauvel Oliveira</i> | SUBSTITUÍDO                                                              |               |
|                                                                           | PROJESTOU              | DATA 97 MAIO                                                             |               |
|                                                                           | <i>A. José</i>         |                                                                          |               |



**B 25  
A 400NR**

NOTA: Cotas a rectificar no local

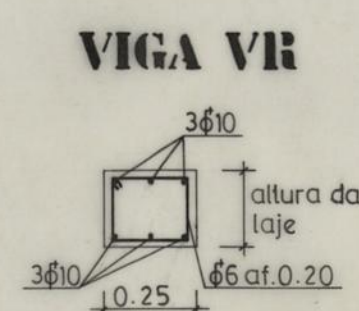
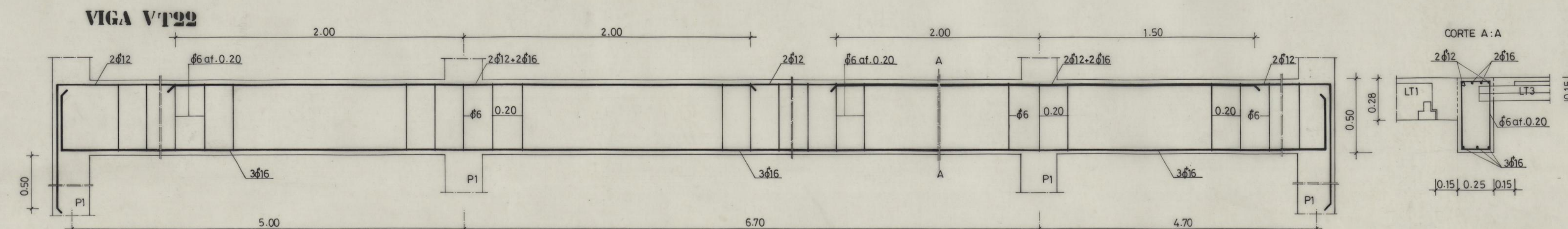
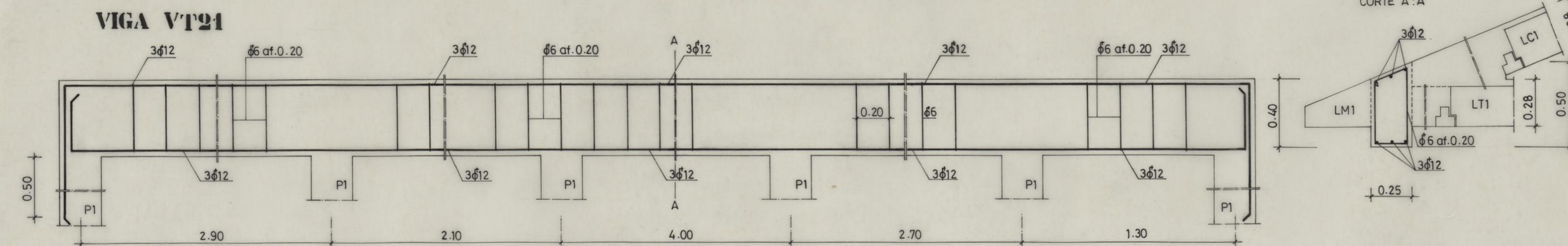
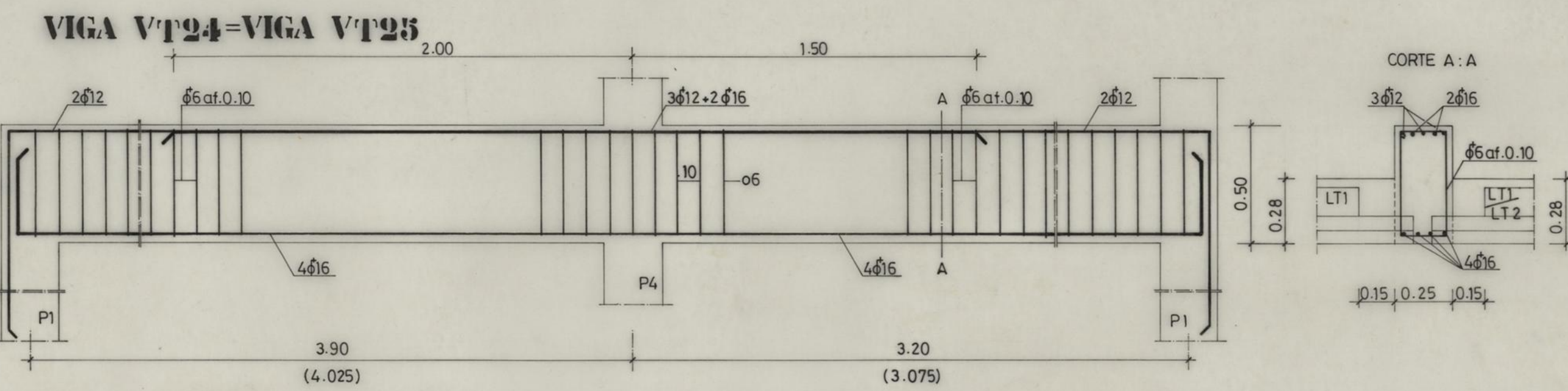
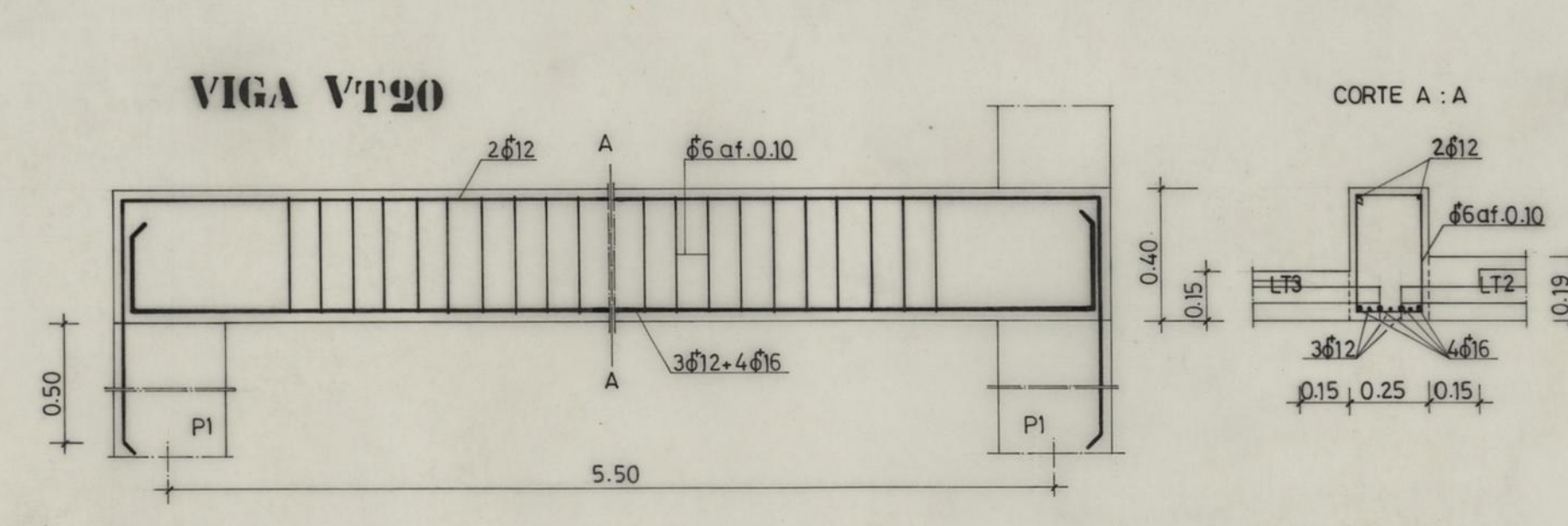
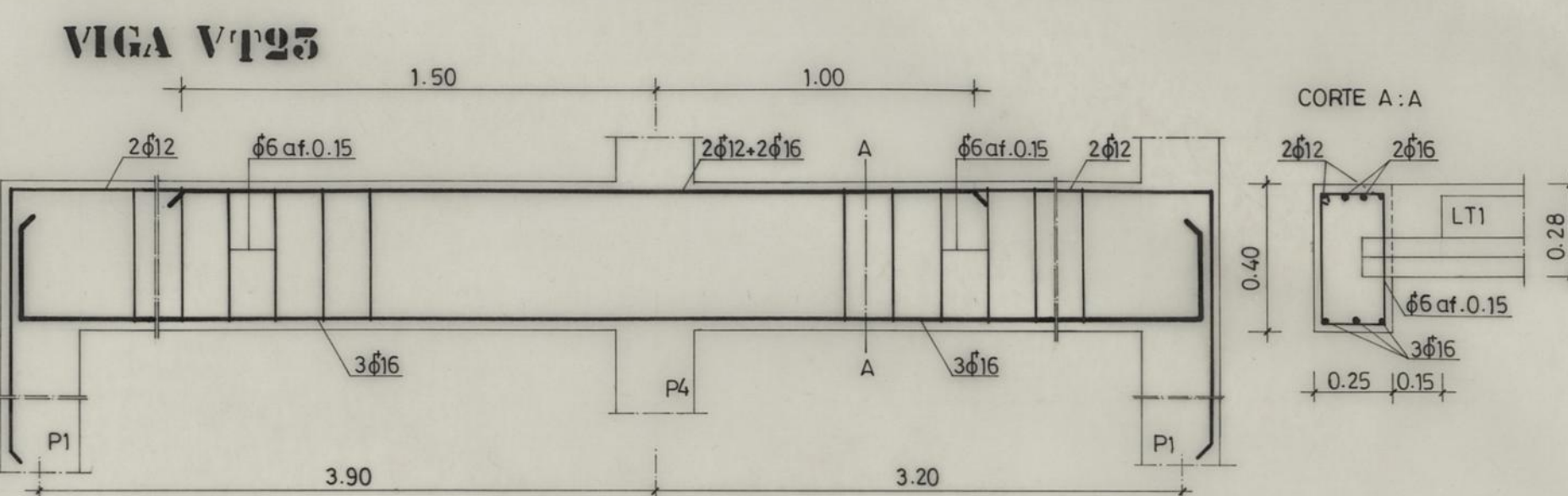
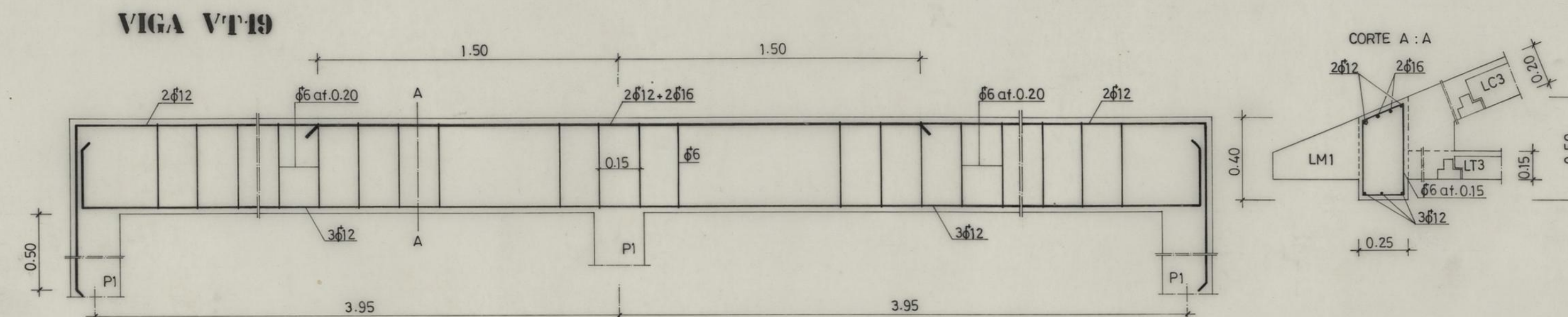
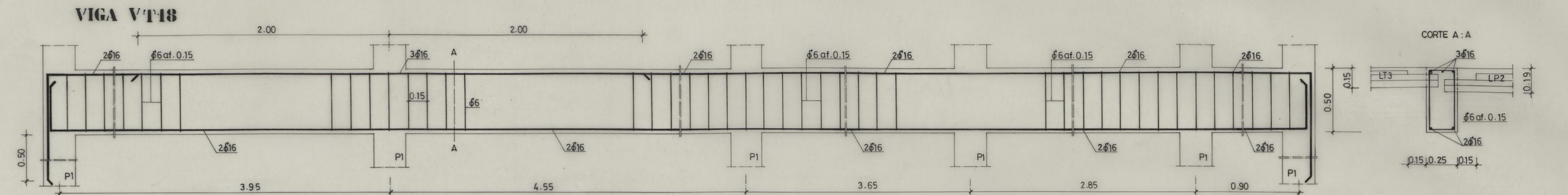
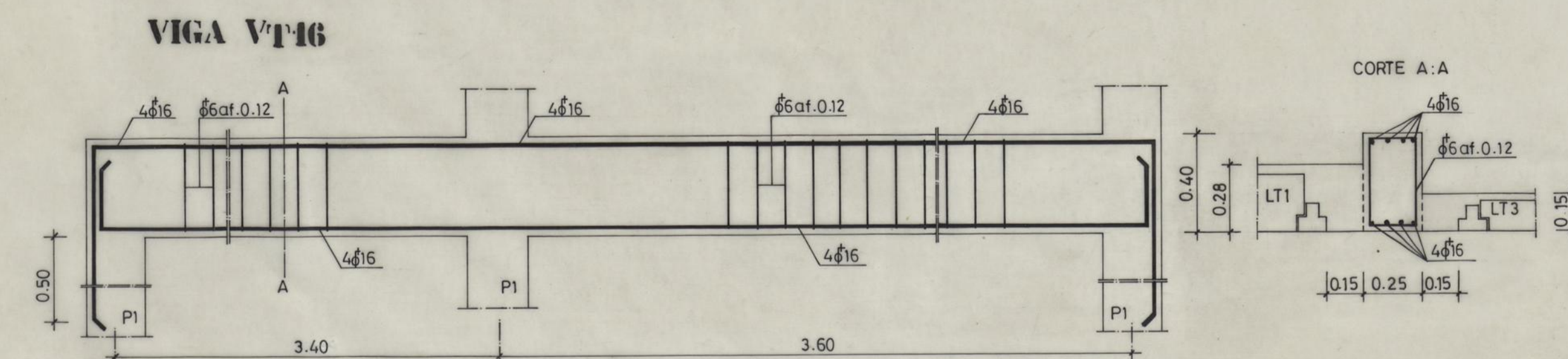
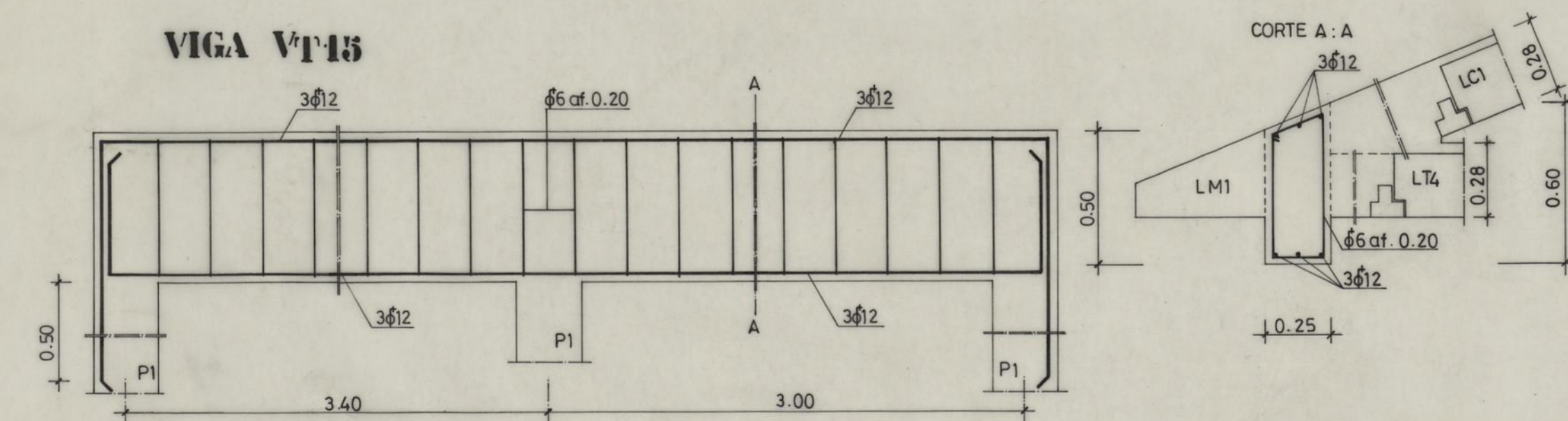
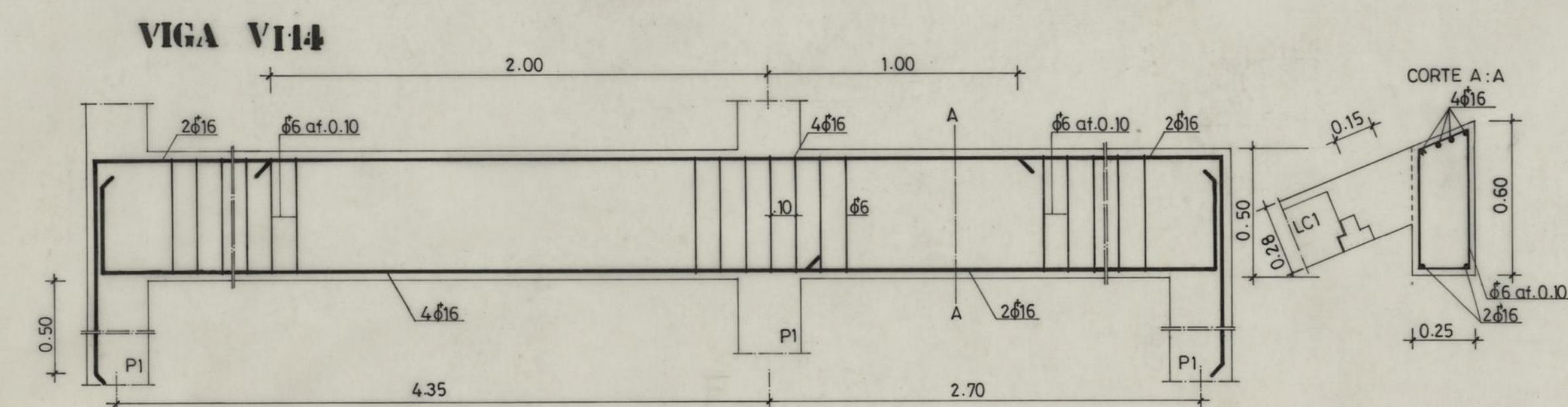
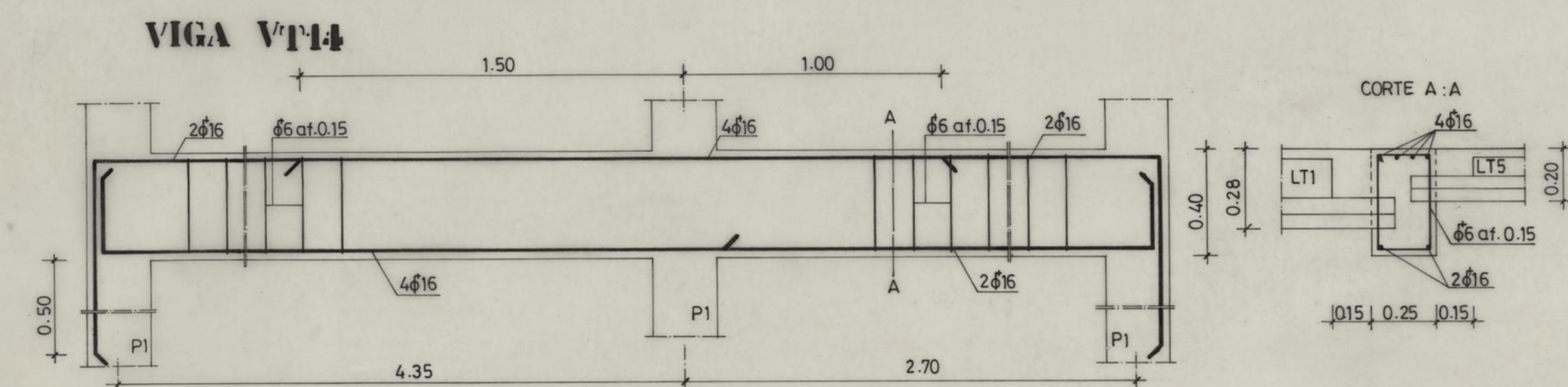
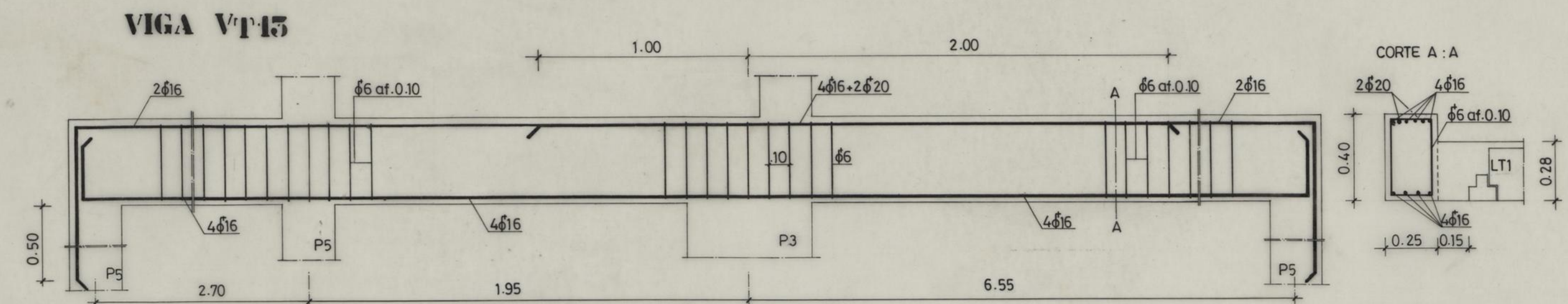
|                                                                           |  |                                       |      |
|---------------------------------------------------------------------------|--|---------------------------------------|------|
| CRECHE, JARDIM DE INFÂNCIA E CENTRO DE DIA DE RAINHA D. LEONOR - O.D.P.S. |  | CAMARA MUNICIPAL DO PORTO             |      |
| BETÃO ARMADO                                                              |  | DIRECÇÃO DOS SERVIÇOS DE OBRAS D.C.C. |      |
| VIGAS                                                                     |  | DESENHO Nº                            | 44 6 |
| VP1, VP2, VP3, VP4, VP5, VP6, VP7, VP11, VP11, VP12                       |  | ESCALAS                               | 1/20 |
| VP14, VP15, VP37, VP38, VP39, VP40, V118, V122                            |  | ANULADO                               |      |
| O CHEFE                                                                   |  | SUBSTITUÍDO                           |      |
| DESENHOU: <i>Paulo Oliveira</i>                                           |  | DATA 1995 MAIO                        |      |
| PROJECIONOU: <i>Alvaro</i>                                                |  |                                       |      |



**B 25  
A 400NR**

NOTA: Cotas a rectificar no local

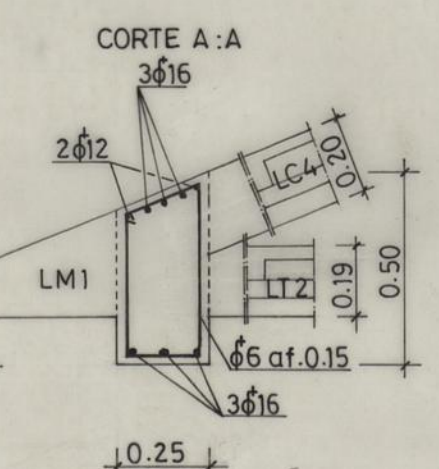
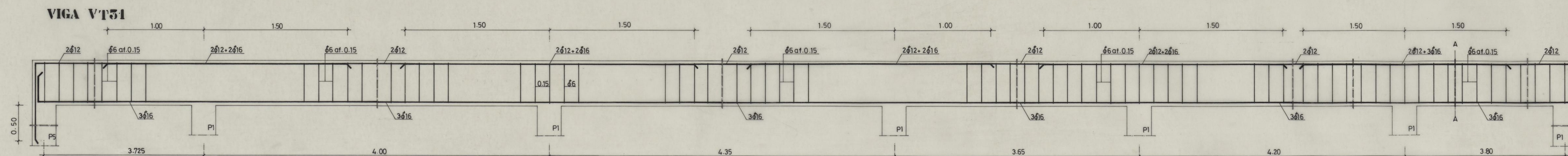
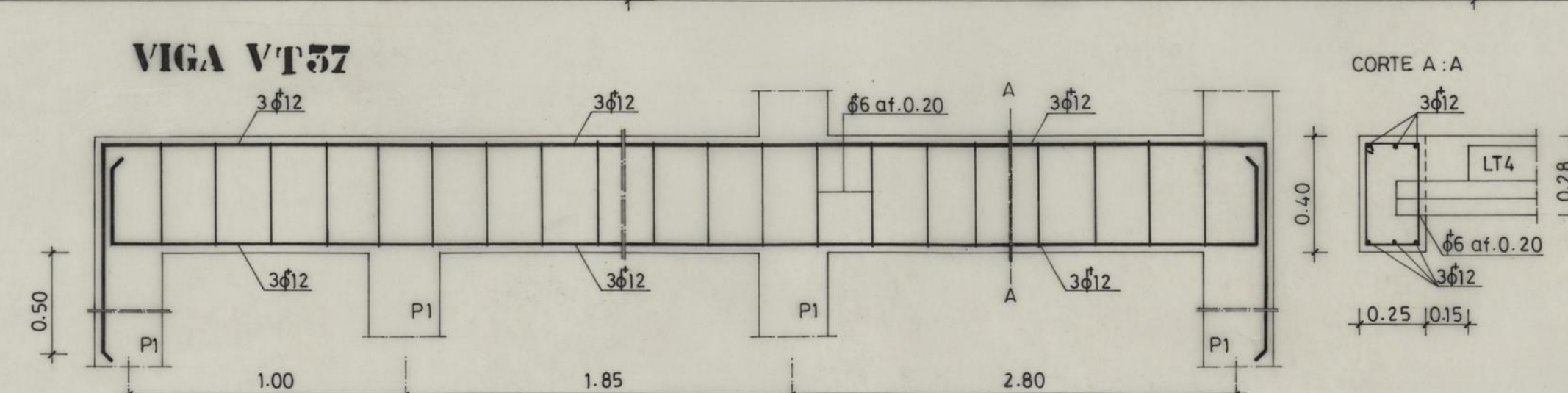
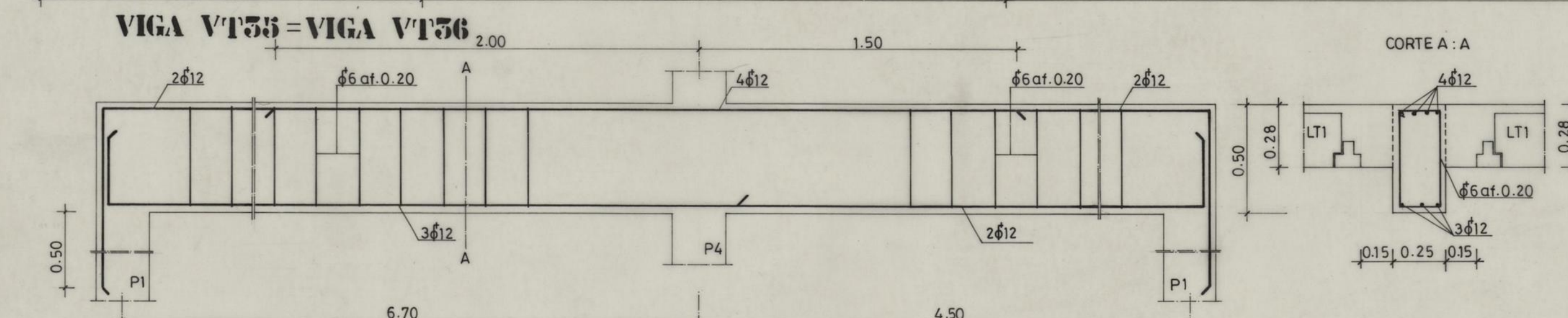
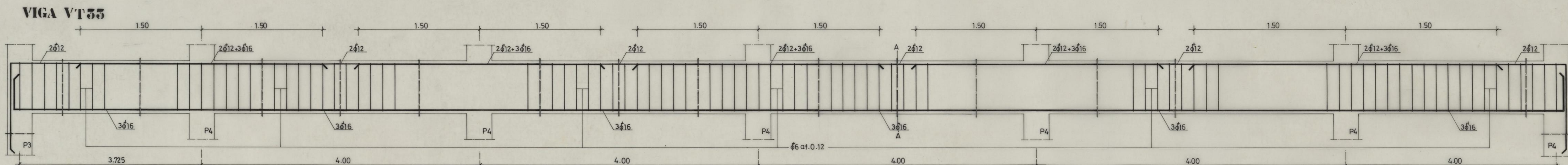
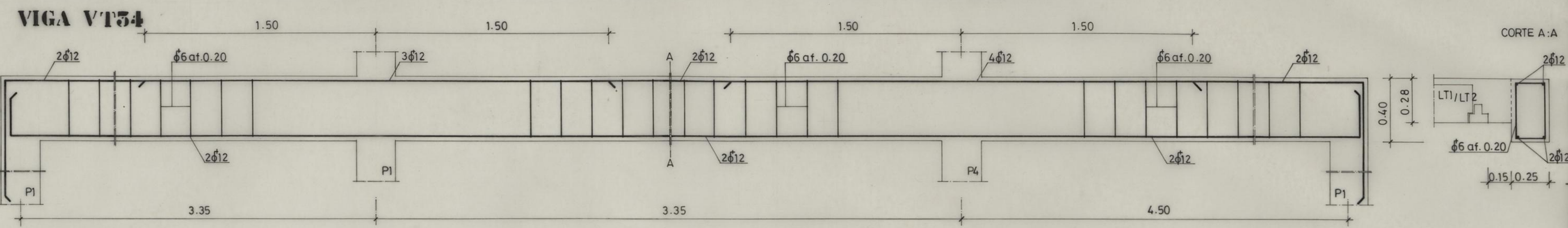
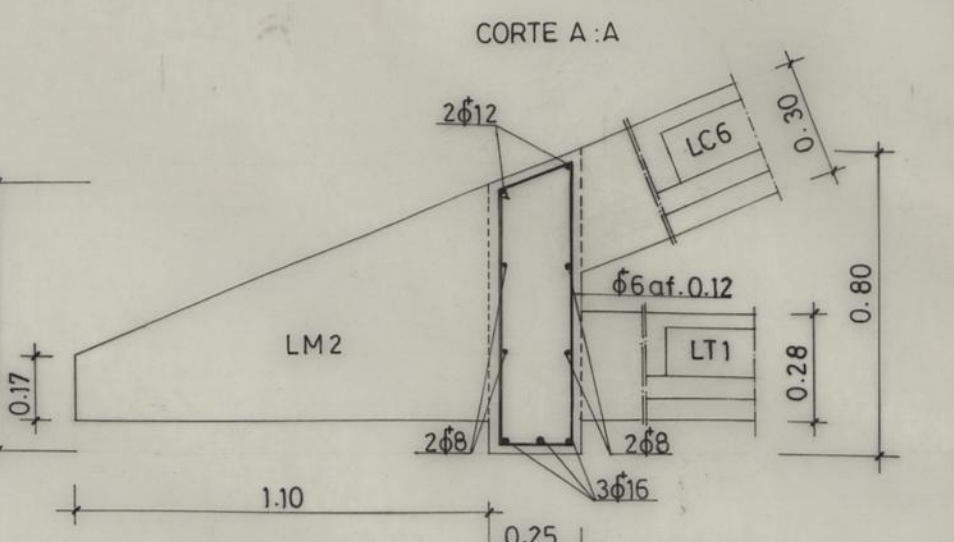
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|---------------------------------------------------------------------------|--|---------------------------------------|--|
| CRECHE, JARDIM DE INFÂNCIA E CENTRO DE DIA DE RAINHA D. LEONOR - O.D.P.S. |  | CAMARA MUNICIPAL DO PORTO             |  |
| DIRECÇÃO DOS SERVIÇOS DE OBRAS D.C.C.                                     |  | DIRECÇÃO DOS SERVIÇOS DE OBRAS D.C.C. |  |
| BETÃO ARMADO                                                              |  | DESENHO Nº 45 7                       |  |
| VIGAS                                                                     |  | ESCALAS 1/20                          |  |
| VT1, VT2, VT3, VT4, VT5, VT6, VT8, VT10, VT11, VT12                       |  | ANULADO                               |  |
| O CHEFE                                                                   |  | SUBSTITUÍDO                           |  |
| DESENHOU                                                                  |  | DATA 1995 MAIO                        |  |
| PROJETO                                                                   |  |                                       |  |



**B 25  
A 400NR**

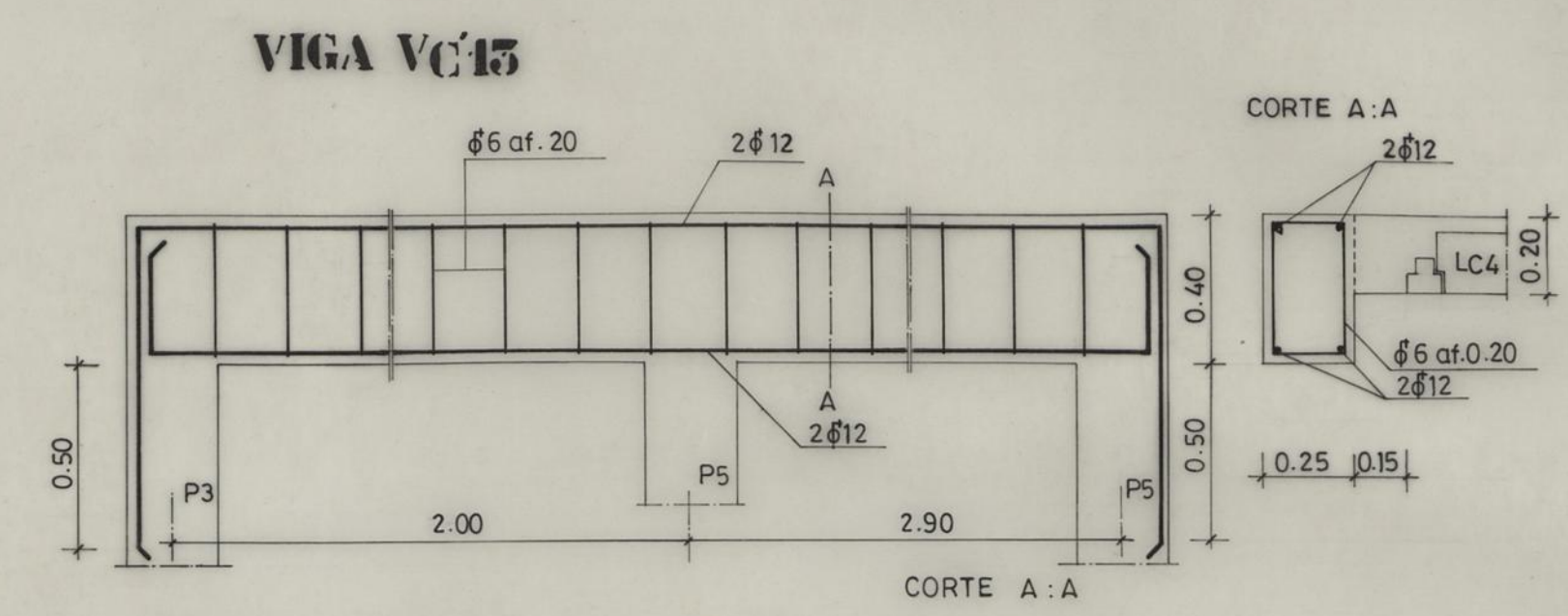
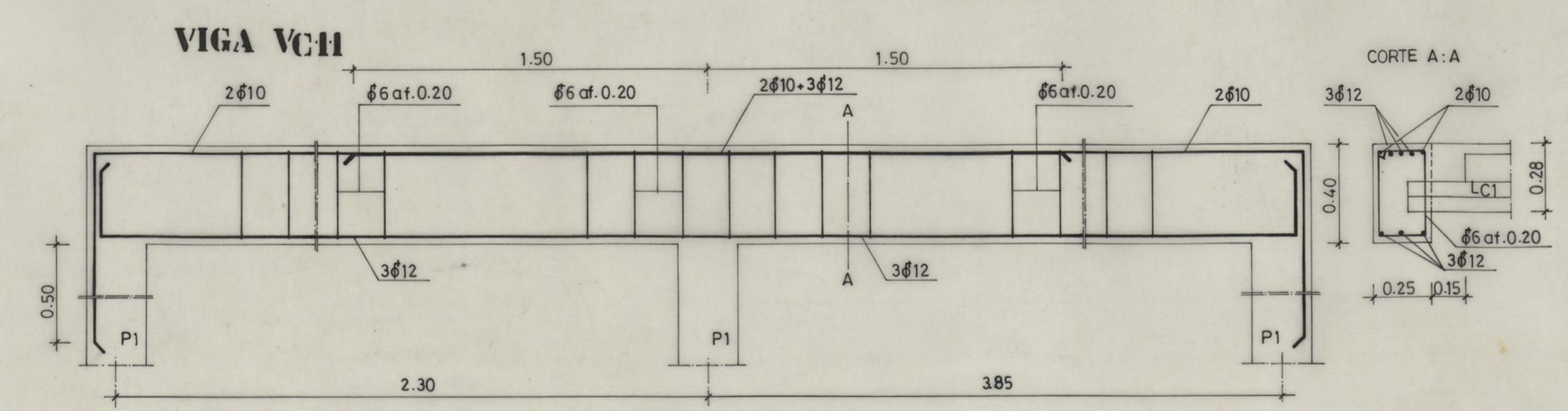
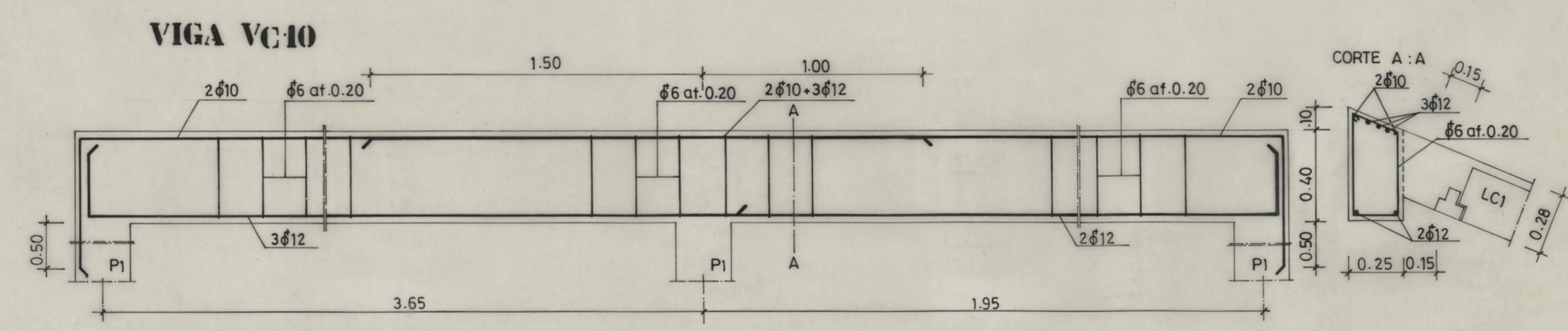
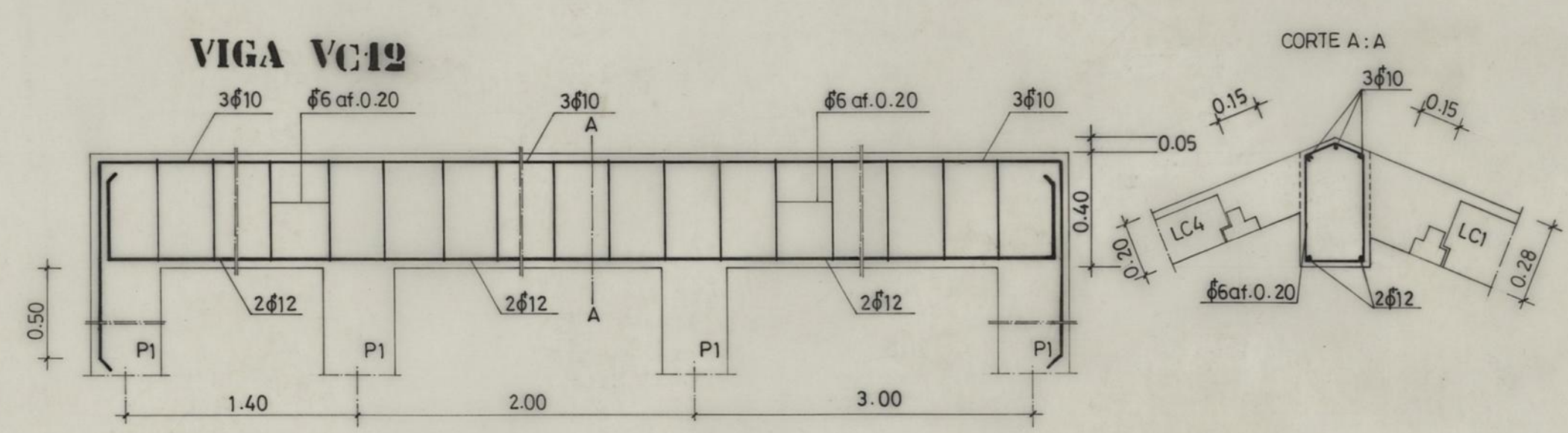
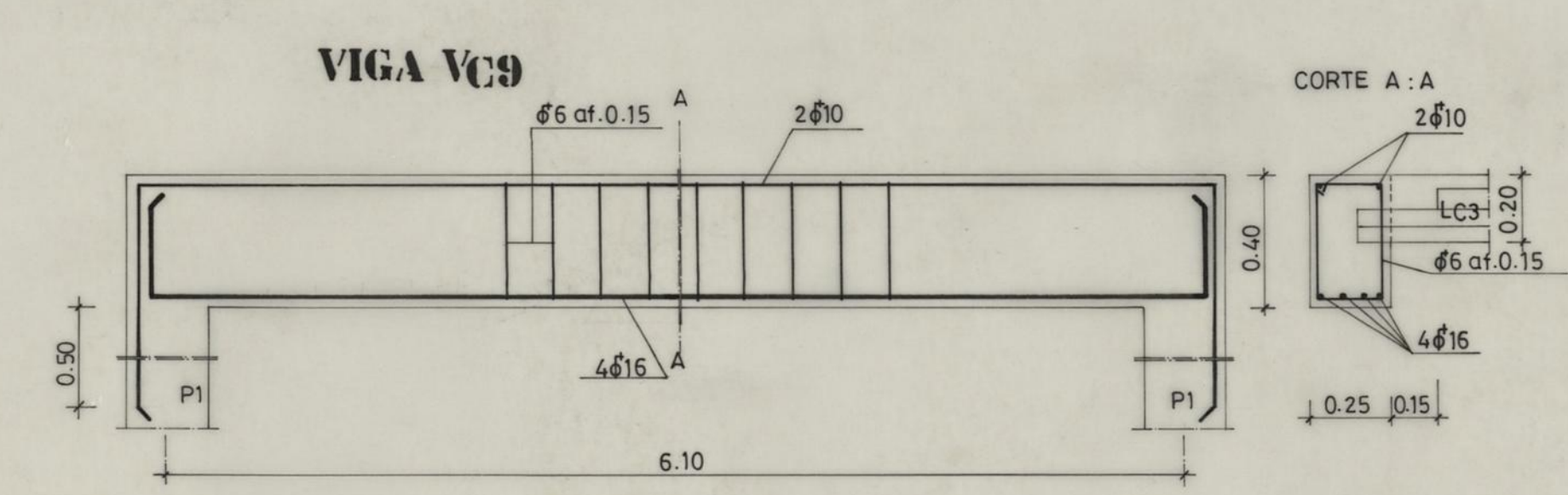
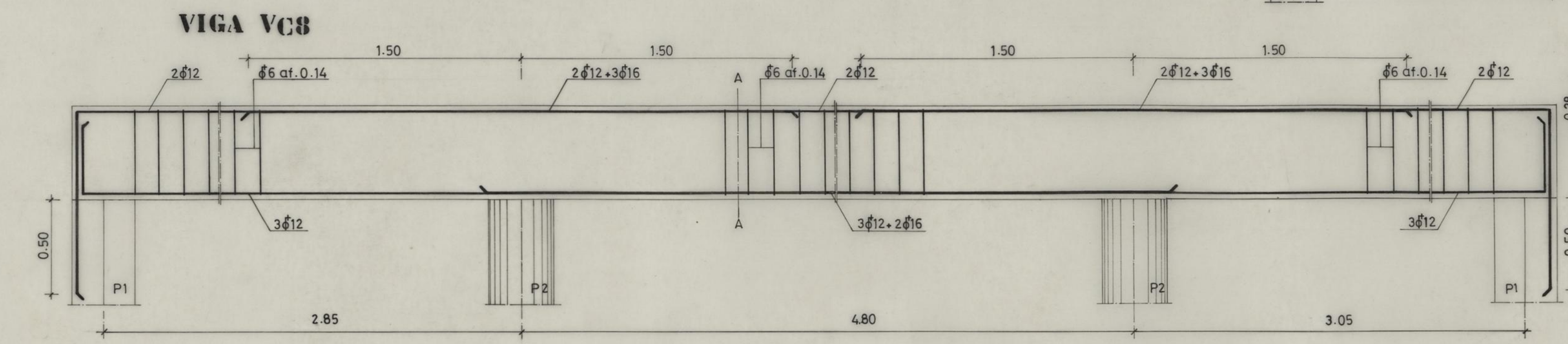
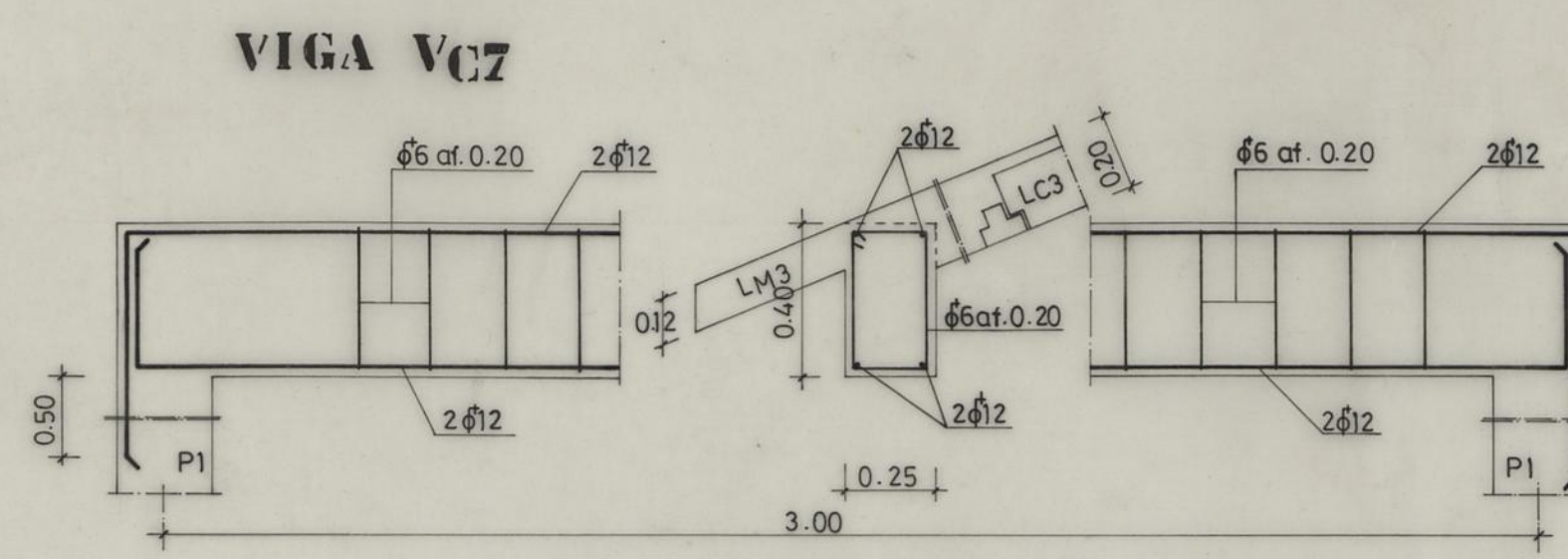
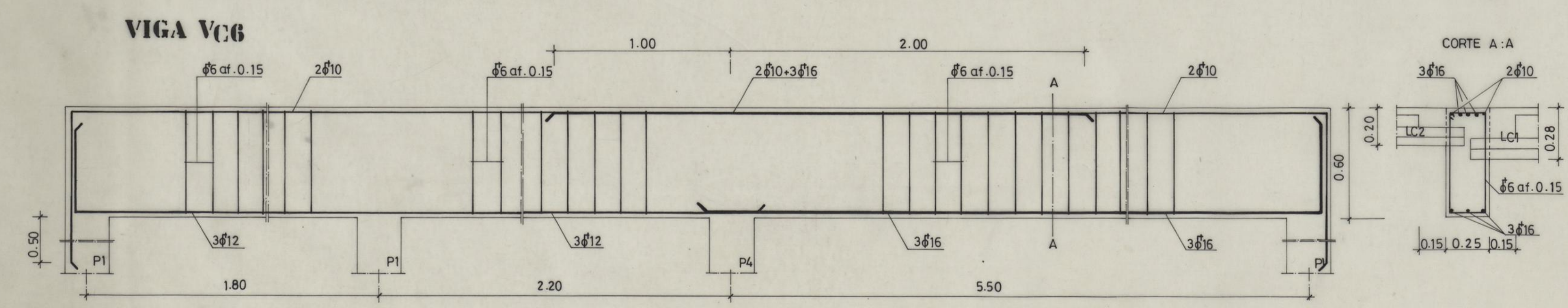
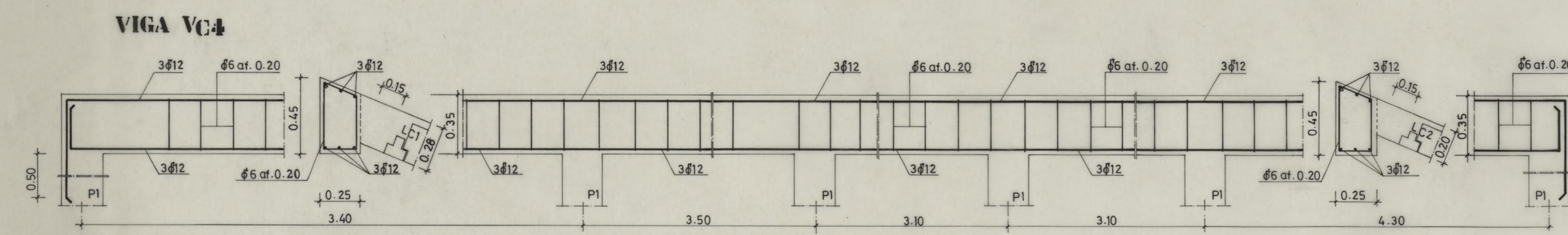
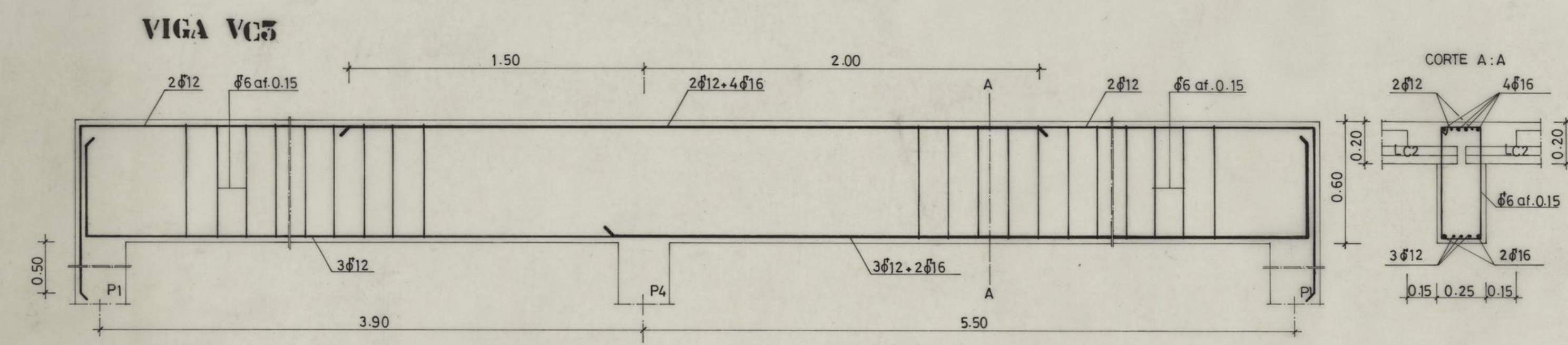
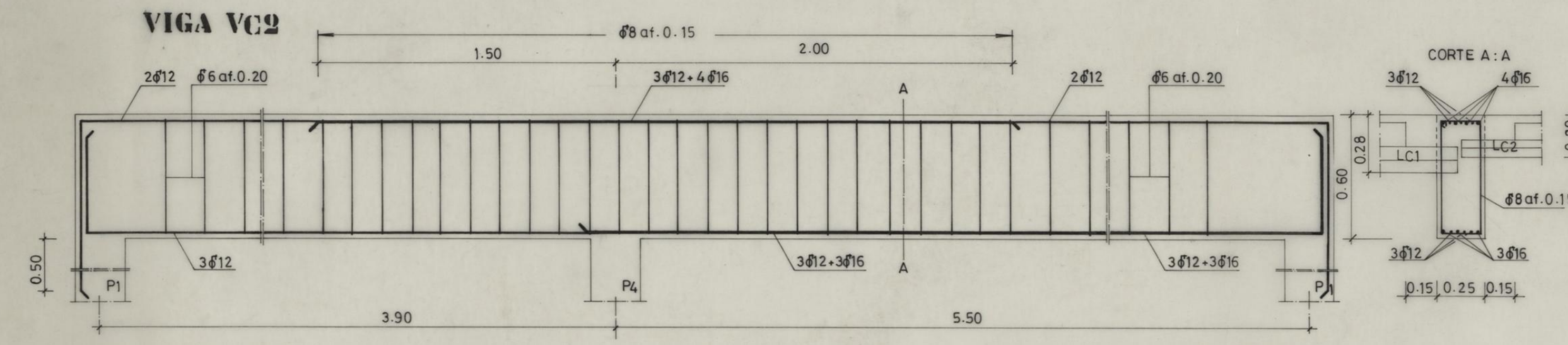
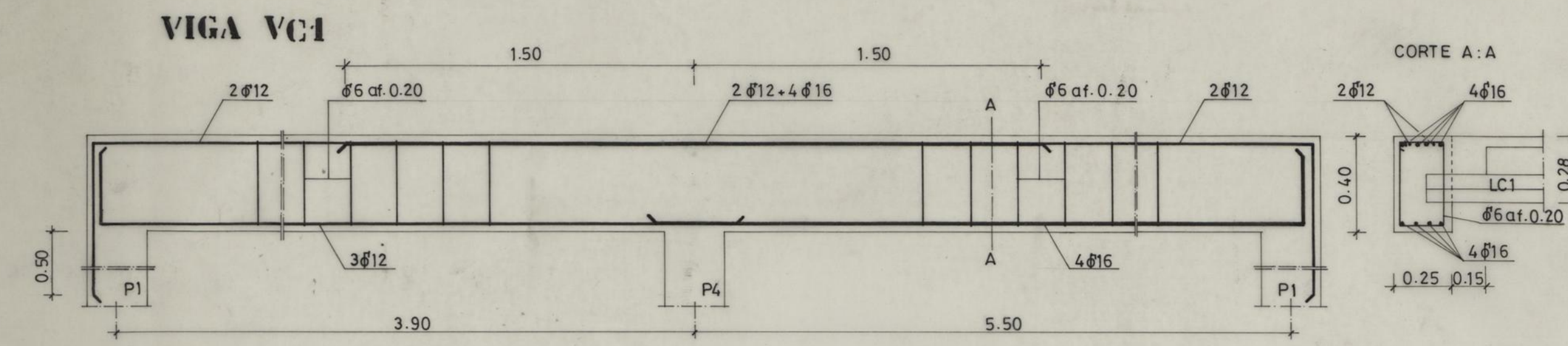
NOTA: Cotas a rectificar no local

|                                                                               |  |                                       |  |
|-------------------------------------------------------------------------------|--|---------------------------------------|--|
| CRECHE, JARDIM DE INFÂNCIA E CENTRO DE DIA DE RAINHA D. LEONOR - O.D.P.S.     |  | CAMARA MUNICIPAL DO PORTO             |  |
| DIRECÇÃO DOS SERVIÇOS DE OBRAS D.S.O.                                         |  | DIRECÇÃO DOS SERVIÇOS DE OBRAS D.S.O. |  |
| BETÃO ARMADO                                                                  |  | DESENHO Nº: <b>46 8</b>               |  |
| VIGAS                                                                         |  | ESCALAS 1/20                          |  |
| VT13, VT14, VI14, VT15, VT16, VT18, VT19, VT20, VT21, VT22, VT23, VT24 e VT25 |  | ANULADO                               |  |
| O CHEFE                                                                       |  | SUBSTITUÍDO                           |  |
| DESENHOU: <i>Teresa Oliveira</i>                                              |  | DATA 1995 MAIO                        |  |
| PROJECTOU: <i>Alvaro</i>                                                      |  |                                       |  |



|                |  |
|----------------|--|
| ANULADO        |  |
| SUBSTITUÍDO    |  |
| DATA 1995 MAIO |  |

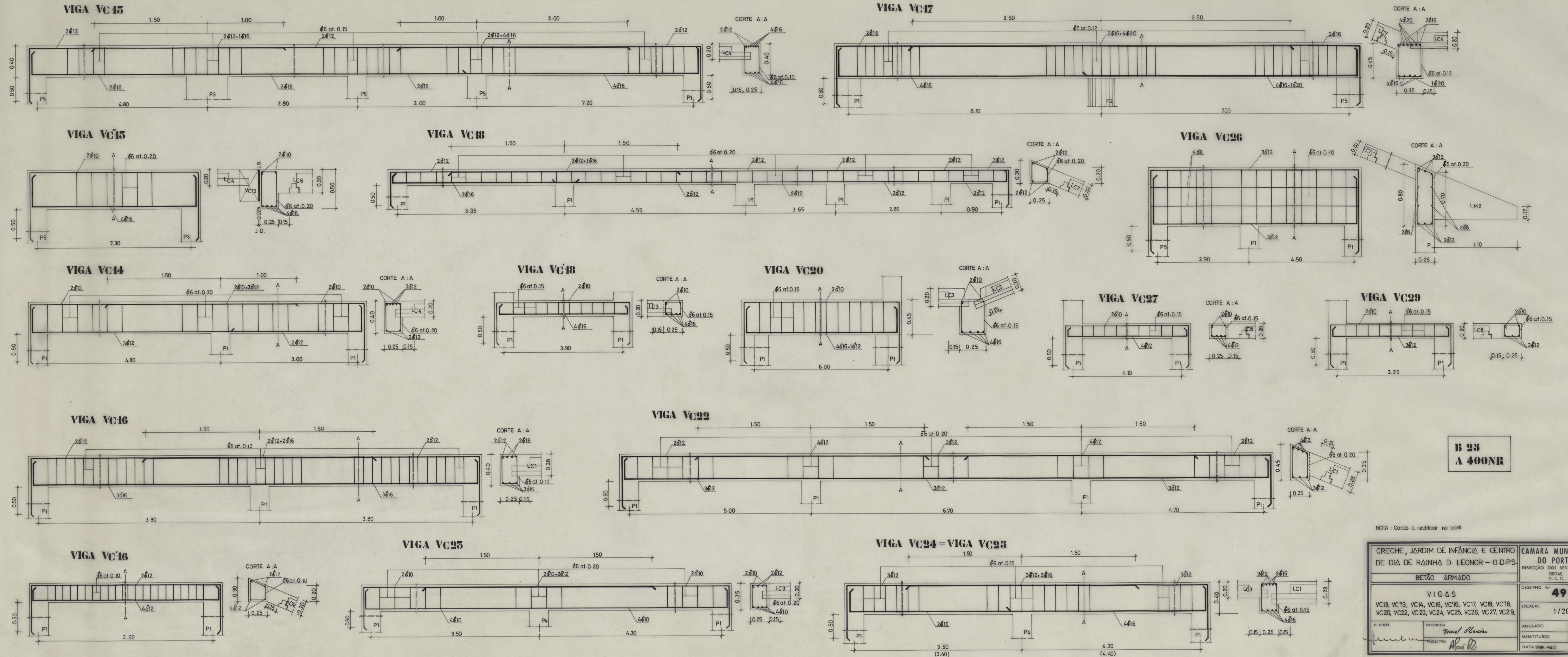
**B 25**  
**A 400 NR**



**B 25  
A 400NR**

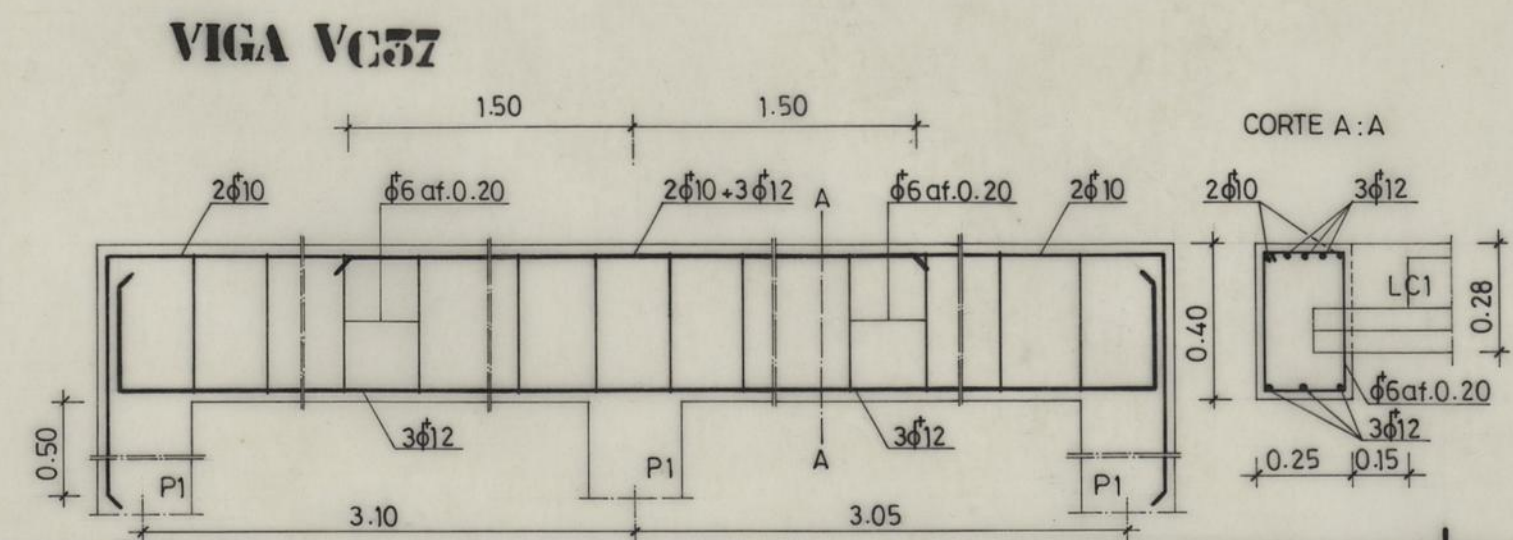
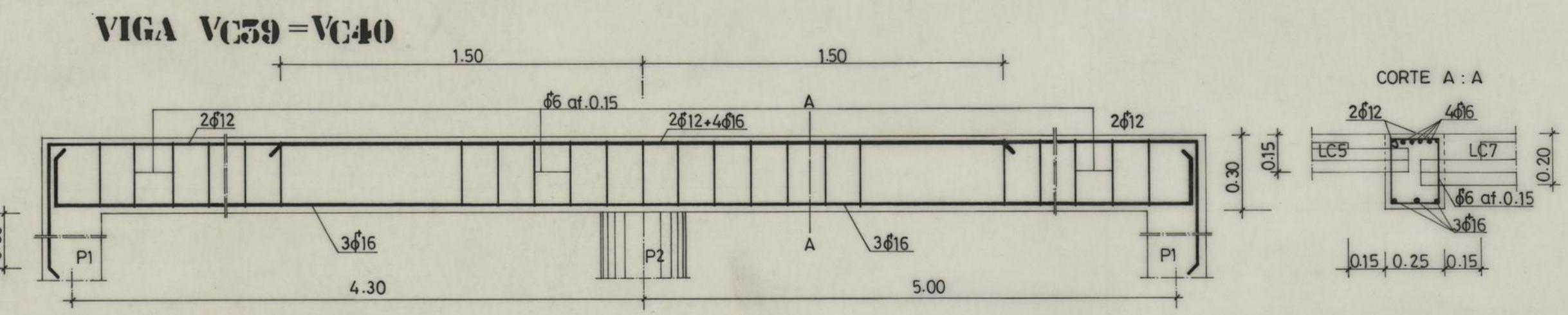
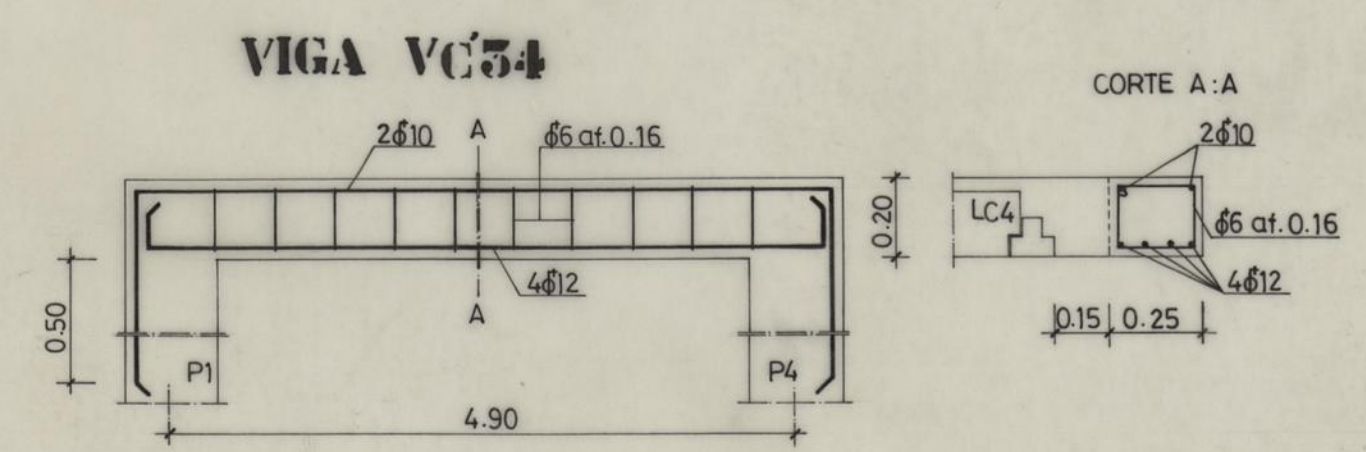
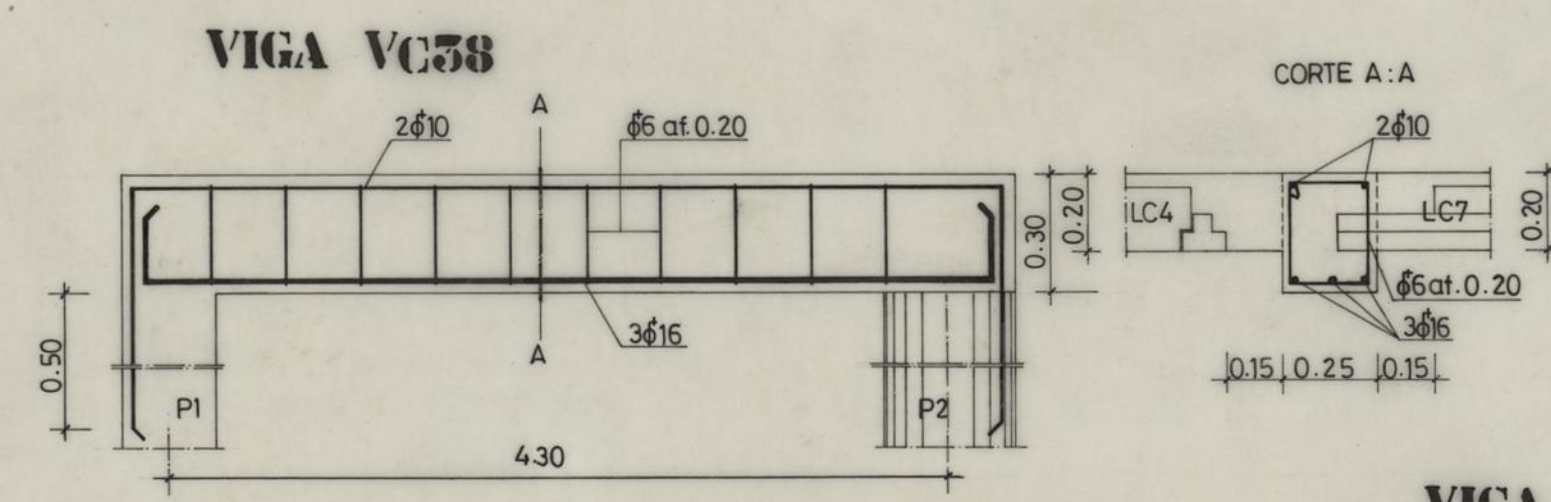
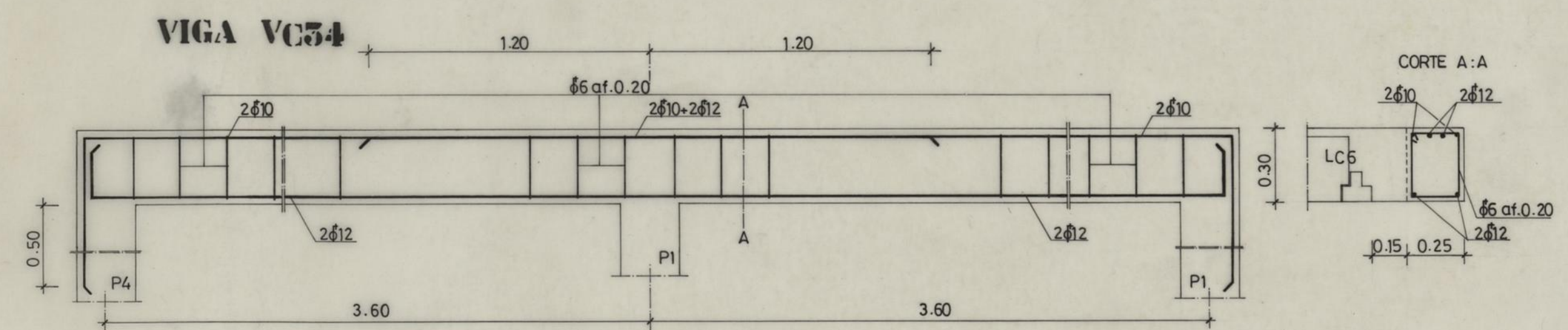
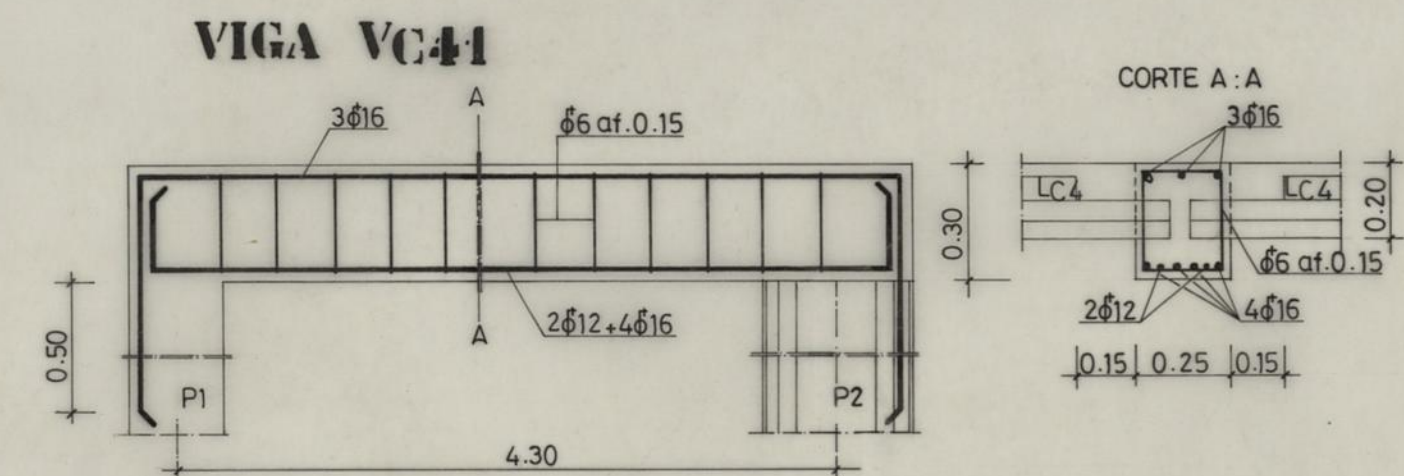
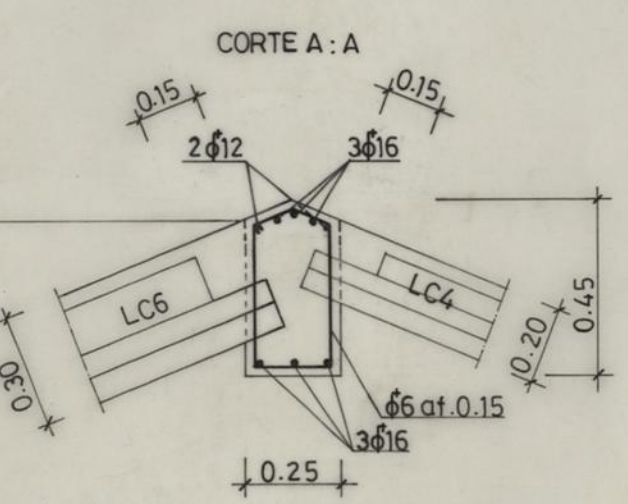
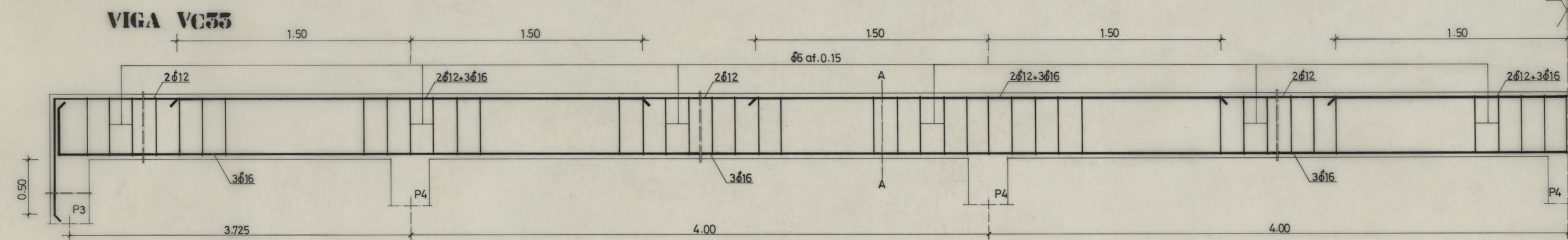
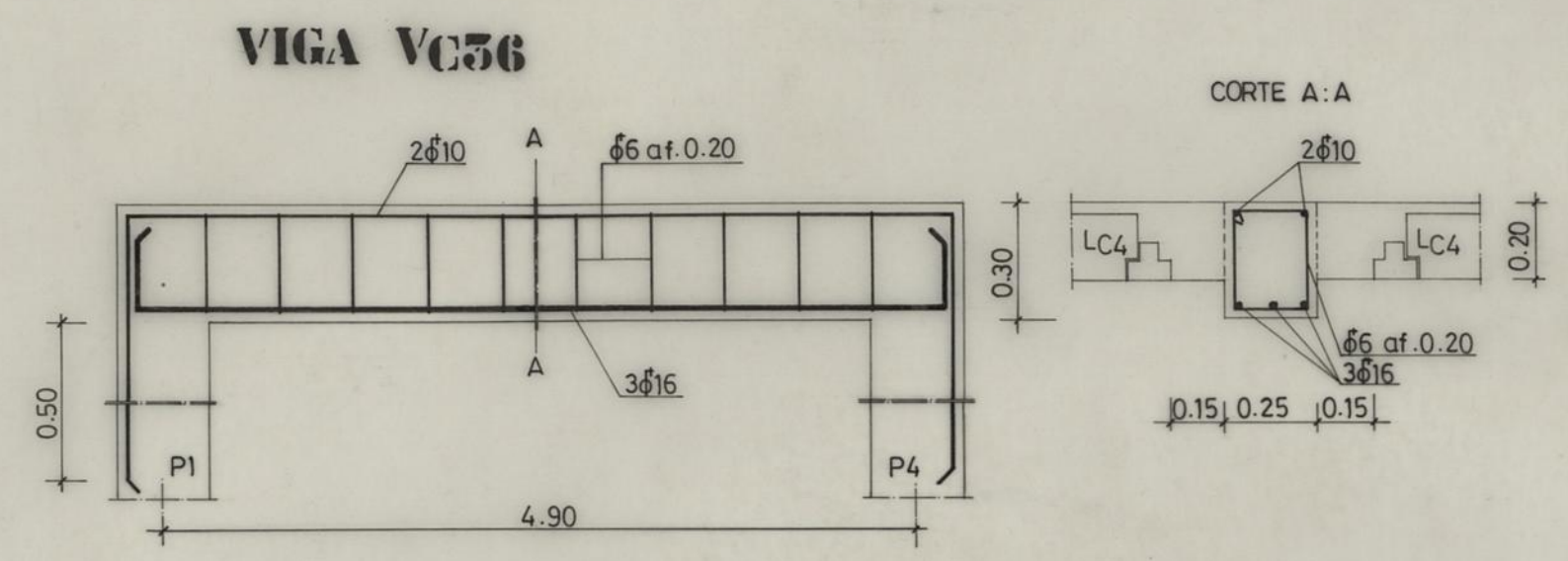
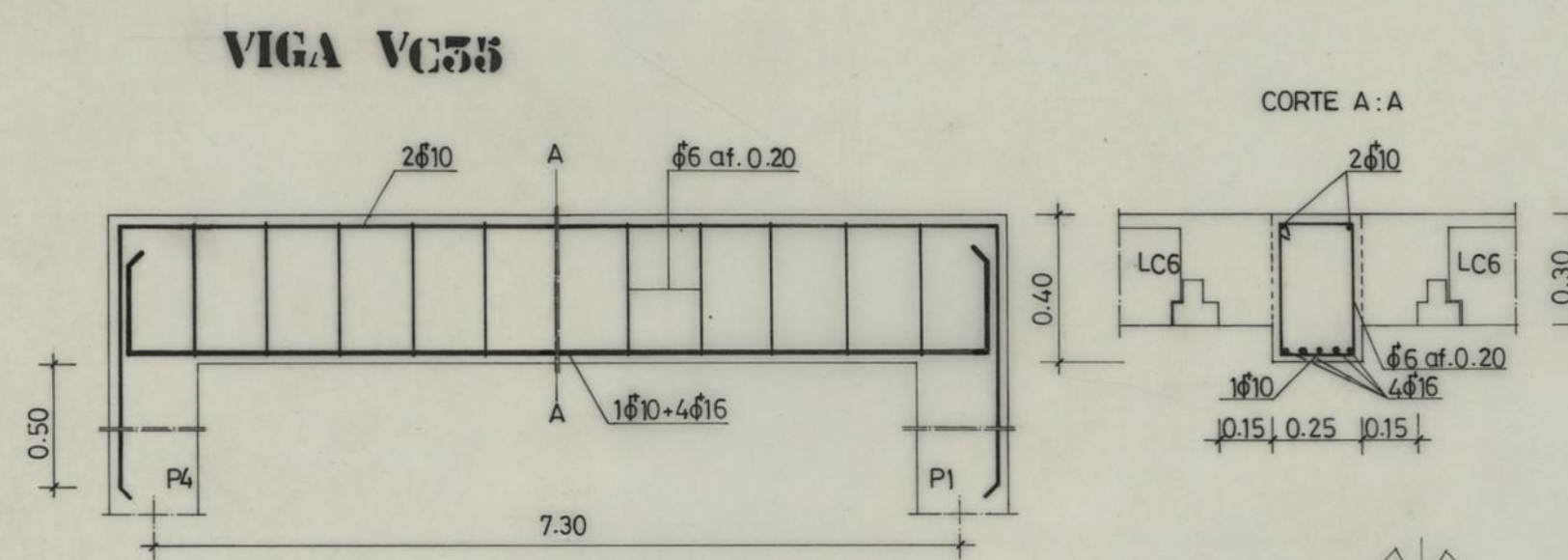
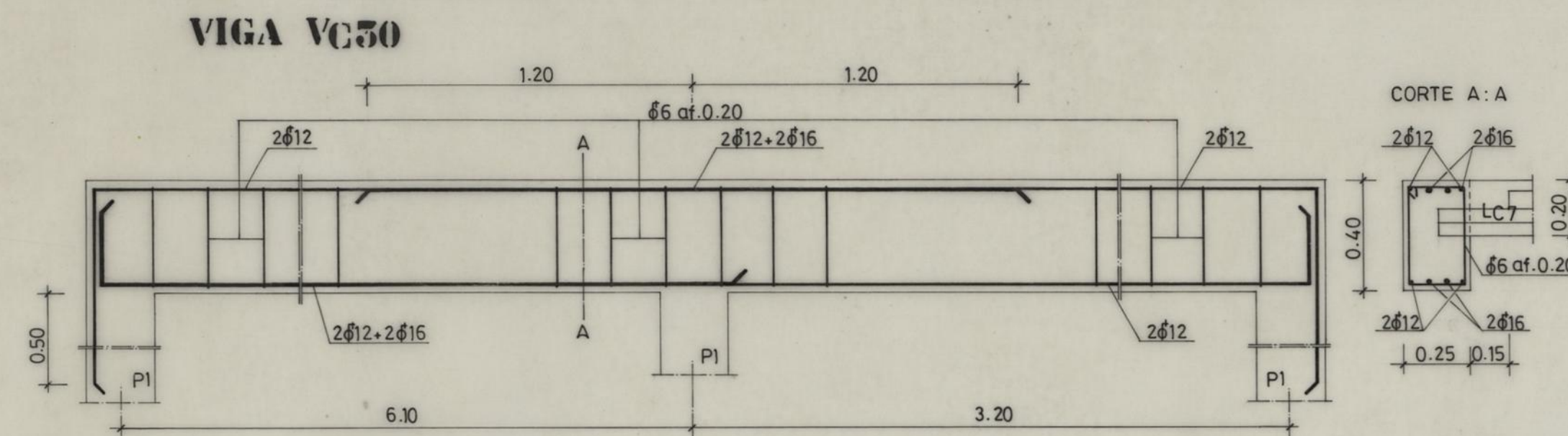
NOTA : Cotas a rectificar no local

|                                                                         |           |                                         |  |
|-------------------------------------------------------------------------|-----------|-----------------------------------------|--|
| CRECHE, JARDIM DE INFÂNCIA E CENTRO DE DIA DE RAINHA D. LEONOR-O.D.P.S. |           | CAMARA MUNICIPAL DO PORTO               |  |
| BETÃO ARMADO                                                            |           | DIRECÇÃO DOS SERVIÇOS DE OBRAS D. C. C. |  |
| VIGAS                                                                   |           | DESENHO N.º 48 10                       |  |
| VC1, VC2, VC3, VC4, VC6, VC7, VC8, VC9, VC10, VC11, VC12 e VC13         |           | ESCALAS 1/20                            |  |
| O CHEFE                                                                 | DESENHOU  | ANULADO                                 |  |
|                                                                         | PROJECTOU | SUBSTITUÍDO                             |  |
|                                                                         |           | DATA 1995 MAIO                          |  |



NOTA: Cotas a rectificar no local

|                                                                                                 |           |                                         |       |
|-------------------------------------------------------------------------------------------------|-----------|-----------------------------------------|-------|
| CRECHE, JARDIM DE INFÂNCIA E CENTRO DE DIA DE RAINHA D. LEONOR - O.D.P.S.                       |           | CAMARA MUNICIPAL DO PORTO               |       |
| BETÃO ARMADO                                                                                    |           | DIRECÇÃO DOS SERVIÇOS DE OBRAS D. C. C. |       |
| VIGAS                                                                                           |           | DESENHO N.º                             | 49 11 |
| VC13, VC13, VC14, VC16, VC16, VC17, VC18, VC18, VC20, VC22, VC23, VC24, VC25, VC26, VC27, VC29, |           | ESCALAS                                 | 1/20  |
| O CHEFE                                                                                         | DESENHOU  | ANULADO                                 |       |
|                                                                                                 | PROFESSOR | SUBSTITUÍDO                             |       |
|                                                                                                 |           | DATA 1995 MAIO                          |       |



**B 25  
A 400NR**

NOTA : Cotas a rectificar no local

|                                                                           |           |                                       |  |
|---------------------------------------------------------------------------|-----------|---------------------------------------|--|
| CRECHE, JARDIM DE INFÂNCIA E CENTRO DE DIA DE RAINHA D. LEONOR — O.D.P.S. |           | CAMARA MUNICIPAL DO PORTO             |  |
| BETÃO ARMADO                                                              |           | DIRECÇÃO DOS SERVIÇOS DE OBRAS D.C.C. |  |
| VIGAS                                                                     |           | DESENHO N.º <b>50 12</b>              |  |
| VC30, VC33, VC34, VC35, VC36, VC37, VC38, VC39 e VC40                     |           | ESCALAS 1/20                          |  |
| O CHEFE                                                                   | DESENHOU  | ANULADO                               |  |
|                                                                           | PROJECTOU | SUBSTITUÍDO                           |  |
|                                                                           |           | DATA 1995 MAIO                        |  |