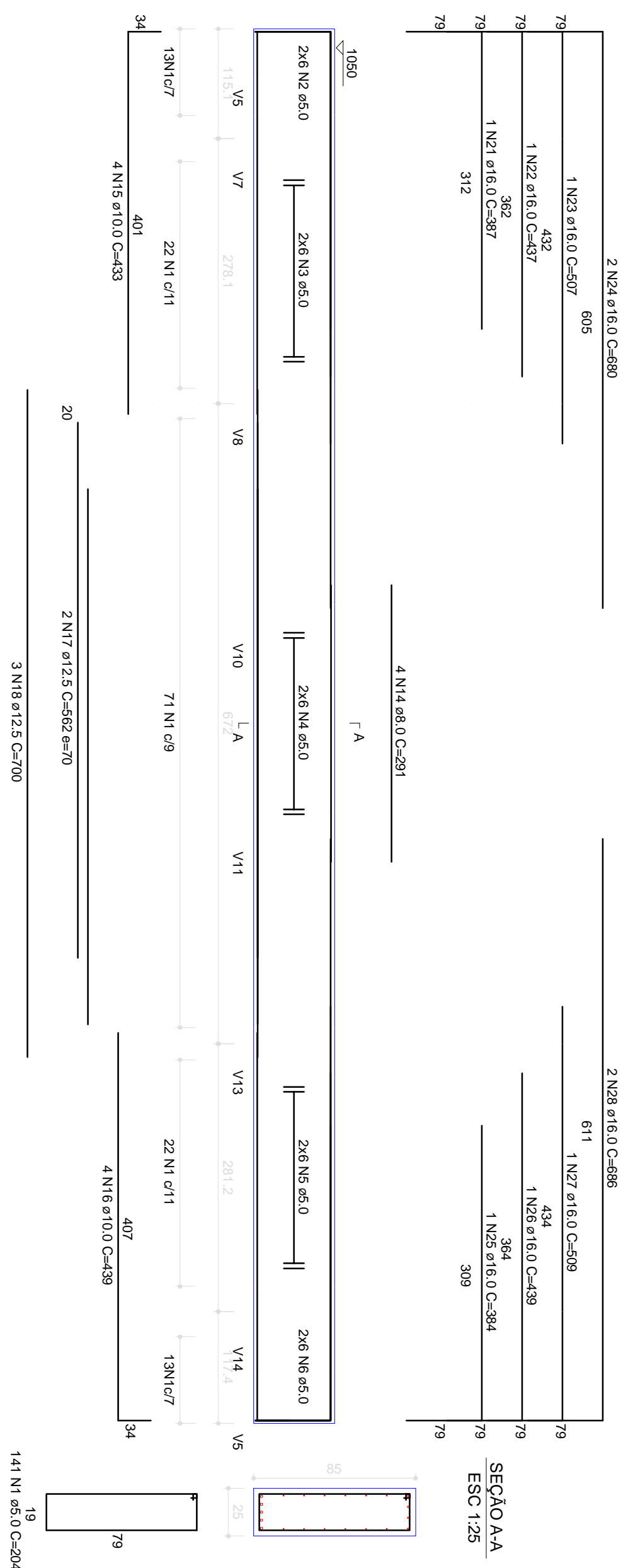


V18  
1:50

1:50



## RELAÇÃO DO AÇO

Negativos

2Xp13

AÇO

ACO	N	DIAM	UNIT	C-TOTAL
			(mm)	(mm)
60	1	5.0	144	2,384
	2	5.0	144	2,380
	3	5.0	144	2,386
	4	5.0	144	2,386
	5	5.0	144	2,386
	6	5.0	144	2,386
50	7	6.3	208	1,464
	8	6.3	208	1,464
	9	6.3	208	1,464
	10	6.3	208	1,464
	11	6.3	208	1,464
	12	6.3	208	1,464
	13	6.3	208	1,464
	14	8.0	291	1,164
	15	8.0	291	1,164
	16	10.0	439	756
	17	12.5	562	524
	18	15.0	725	325
	19	16.0	766	325
	20	16.0	766	325
	21	16.0	766	325
	22	16.0	766	325
	23	16.0	766	325
	24	16.0	766	325
	25	16.0	766	325
	26	16.0	766	325

## RESUMO DO AÇO

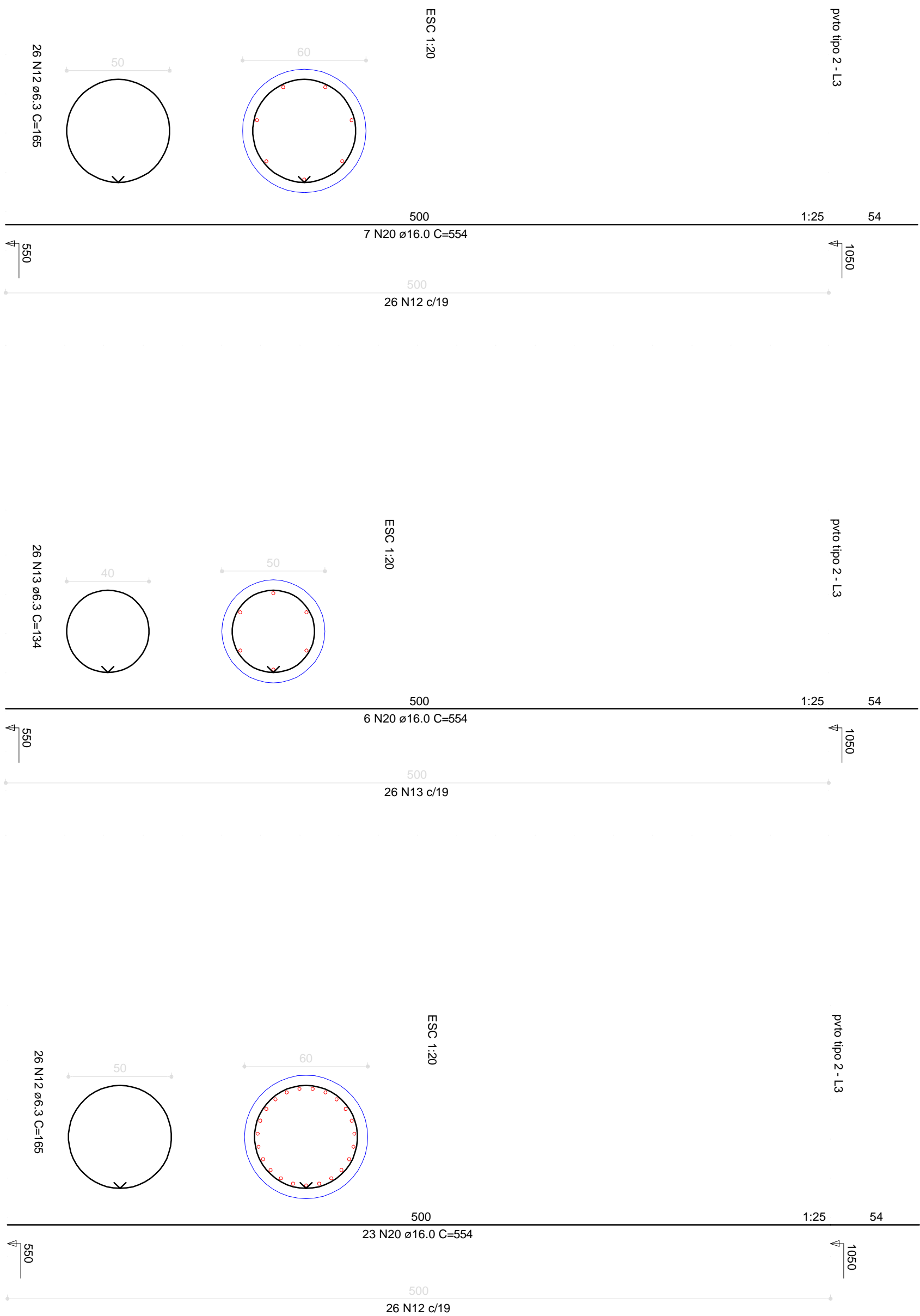
	DIAM	C. TOTAL (m)	PESO+10% (kg)
CA50	6.3 8.0 10.0 12.5 16.0 19.0 5.0	326.2 11.6 34.9 32.2 504.9 463.9	87.9 5.1 23.6 34.2 877.4 78.6
CA60			
PESO TOTAL			
CA50	1028.2		
CA60	78.6		

Volume de concreto total = 10.73 m<sup>3</sup>  
Área de forma total = 81.95 m<sup>2</sup>

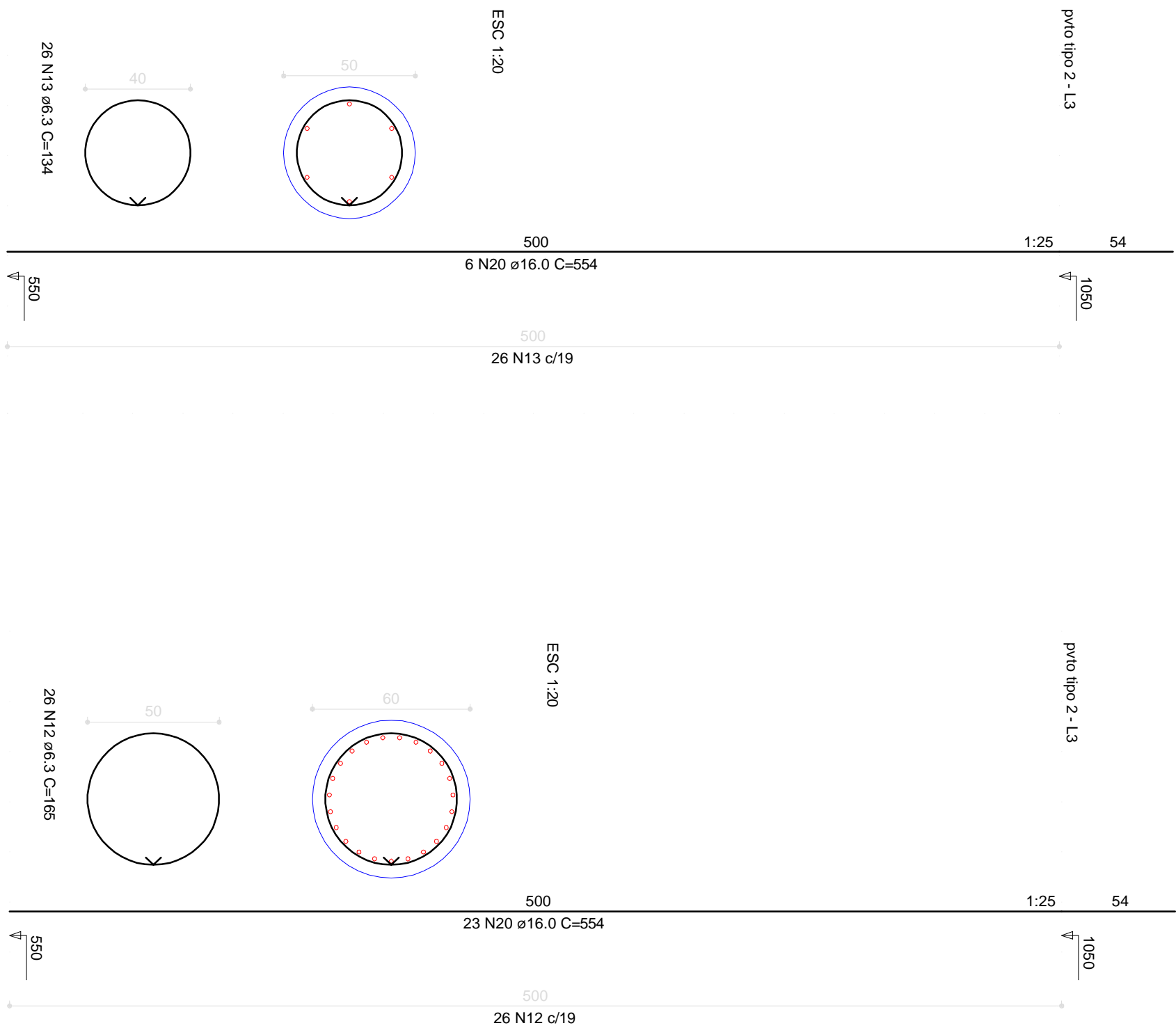
Area de forma total = 81.95 m<sup>2</sup>.

 $f_{ck} = 300.00 \text{ kgf/cm}^2$ 

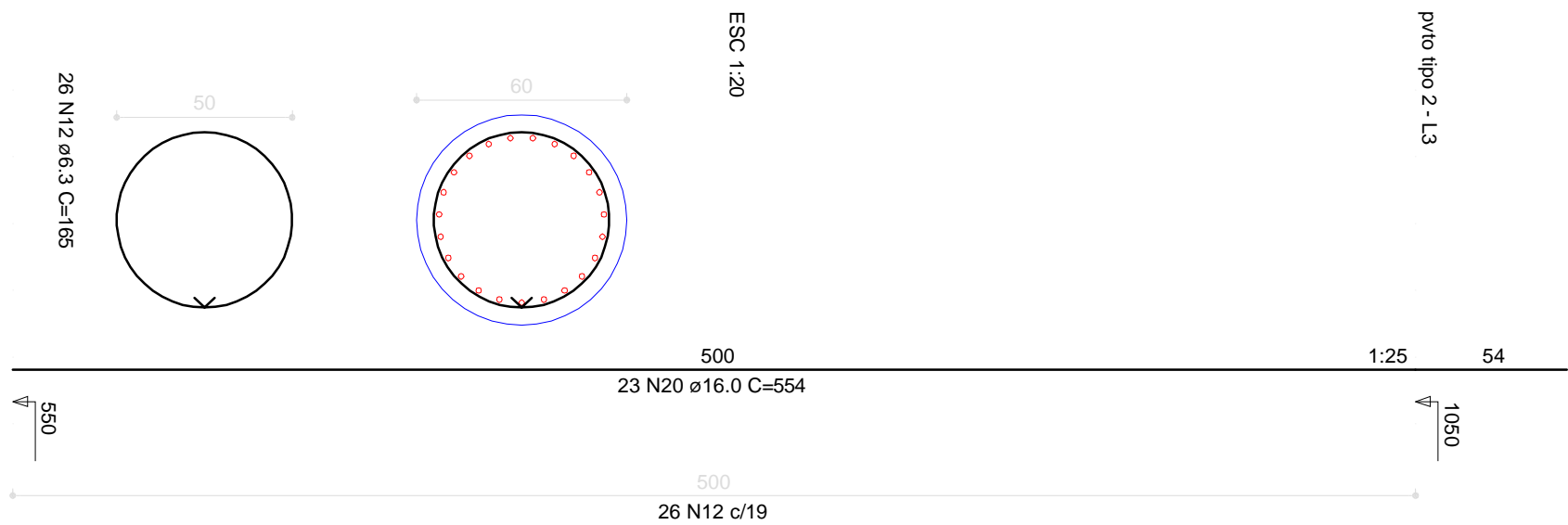
P7=P8



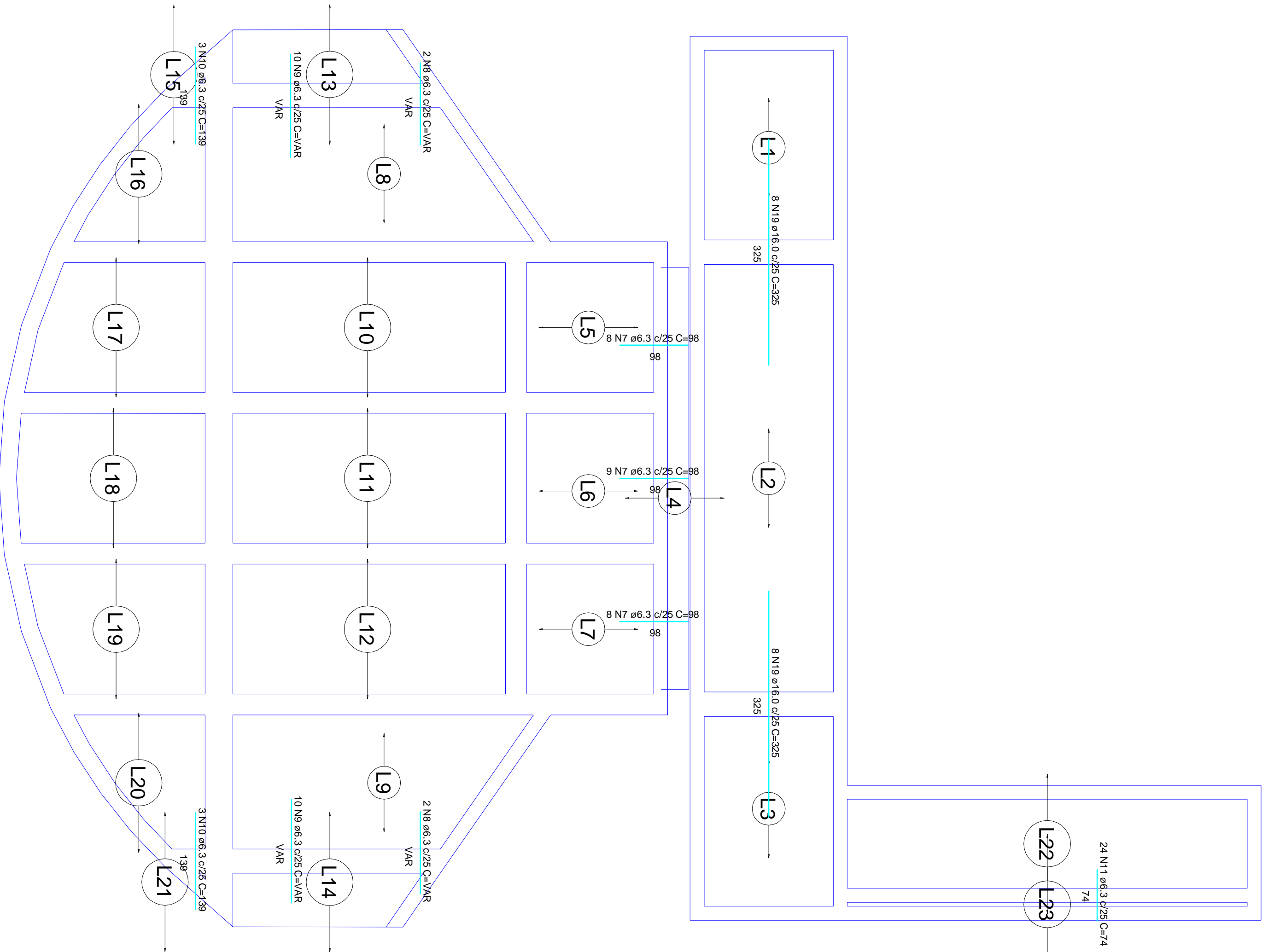
P9=P12



P13=P16



## Ferragem Negativa



TÍTULO: FERRAGEM NEG LAJE, VIGAS, PILARES 2º PVº

OBRA: BLOCO CENTRAL

LOCAL: FRANCA SP

CLIENTE: UNIFACEF

ENG. VIRGÍNIO H. V. REIS

OBS:

OBS:

DATA

DATA

DATA

NOV 2012