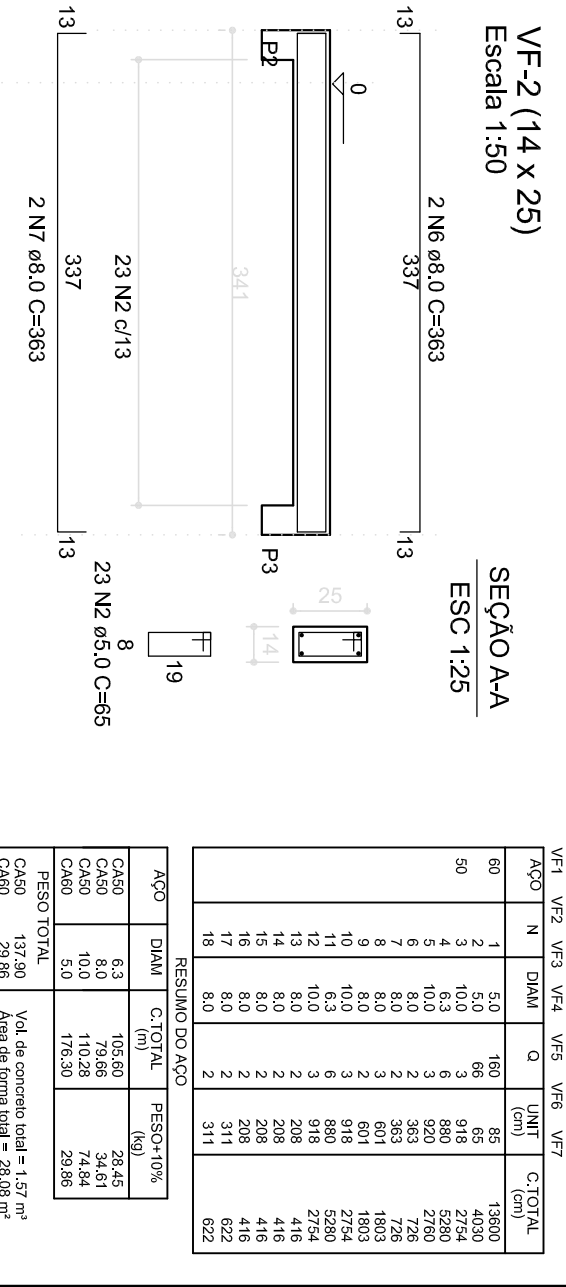
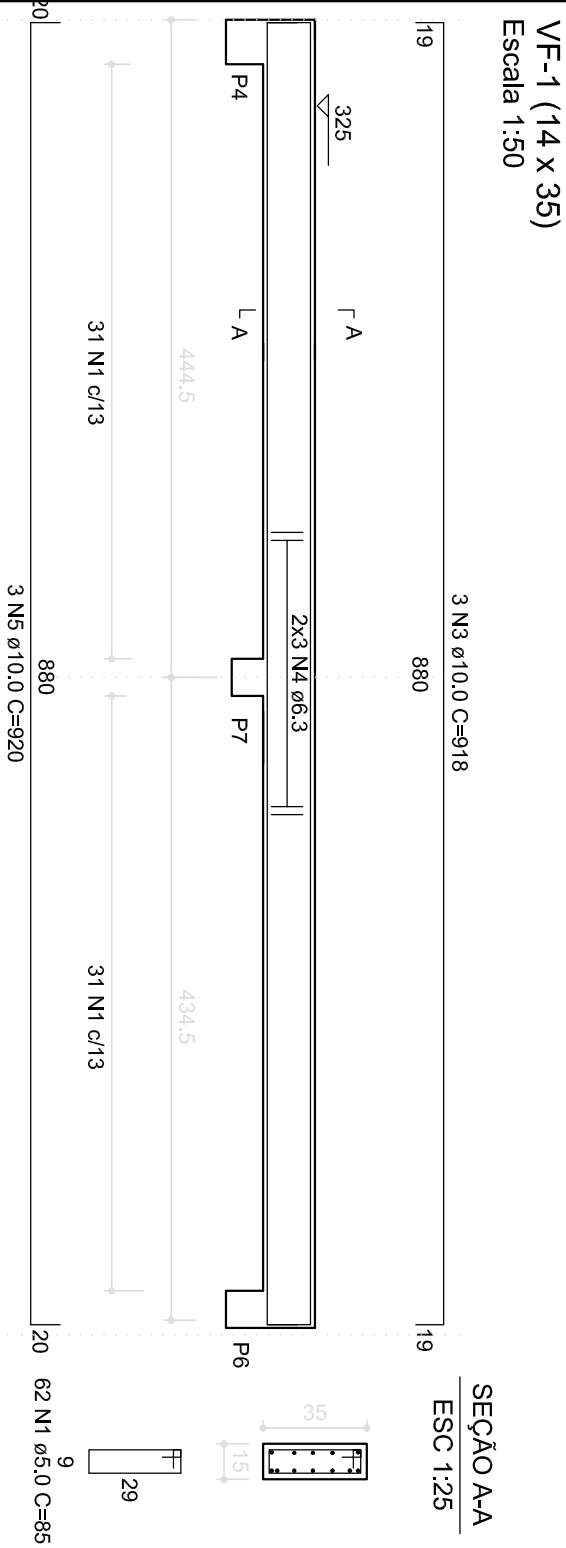


RELAÇÃO DO AÇO

VF1 VF2 VF3 VF4 VF5 VF6 VF7						
AÇO	N	DIAM	Q	UNIT	C:TOTAL	
60	1	5,0	160	85	13600	
50	2	5,0	66	65	4030	
	3	10,0	3	918	2754	
	4	6,3	6	880	5280	
	5	10,0	3	920	2760	
	6	8,0	2	363	726	
	7	8,0	2	363	726	
RESUMO DO AÇO	8	8,0	3	601	1803	
	9	8,0	2	601	1803	
	10	10,0	3	918	2754	
	11	6,3	6	880	5280	
	12	10,0	3	918	2754	
	13	8,0	2	208	416	
	14	8,0	2	208	416	
	15	8,0	2	208	416	
	16	8,0	2	208	416	
	17	8,0	2	311	622	
	18	8,0	2	311	622	
VF-1 (14 x 35)						
Escala 1:50						
3 N3 ø10,0 C=918						
19	880					
SEÇÃO A-A						
ESC 1:25						
19	337					
2 N6 ø8,0 C=363						
13	341					
VF-2 (14 x 25)						
Escala 1:50						
SEÇÃO A-A						
ESC 1:25						
13	337					
2 N6 ø8,0 C=363						
13	341					
VF-3 (14 x 25)						
Escala 1:50						
SEÇÃO A-A						
ESC 1:25						
13	337					
2 N6 ø8,0 C=363						
13	341					
VF-4 (14 x 35)						
Escala 1:50						
SEÇÃO A-A						
ESC 1:25						
13	337					
2 N7 ø8,0 C=363						
13	341					
VF-5 (14 x 25)						
Escala 1:50						
SEÇÃO A-A						
ESC 1:25						
13	337					
2 N7 ø8,0 C=363						
13	341					
VF-6 (14 x 25)						
Escala 1:50						
SEÇÃO A-A						
ESC 1:25						
13	337					
2 N7 ø8,0 C=363						
13	341					
VF-7 (14 x 25)						
Escala 1:50						
SEÇÃO A-A						
ESC 1:25						
13	337					
2 N7 ø8,0 C=363						
13	341					

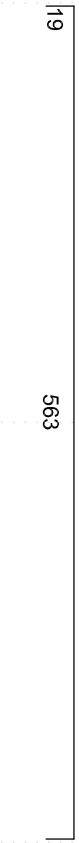
AÇO	DIAM	C:TOTAL	PESO+10%
CA50	6,3	105,60	28,45
CA50	8,0	79,66	24,61
CA50	10,0	110,28	74,84
CA60	5,0	176,30	29,86
PESO TOTAL			
CA50	137,90	Vol. de concreto total = 1,57 m³	
CA60	29,86	Area de forma total = 28,08 m²	



VF-3 (14 x 25)

Escala 1:50

3 N8 ø8,0 C=601



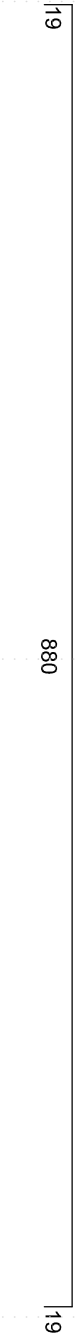
SEÇÃO A-A

ESC 1:25

VF-4 (14 x 35)

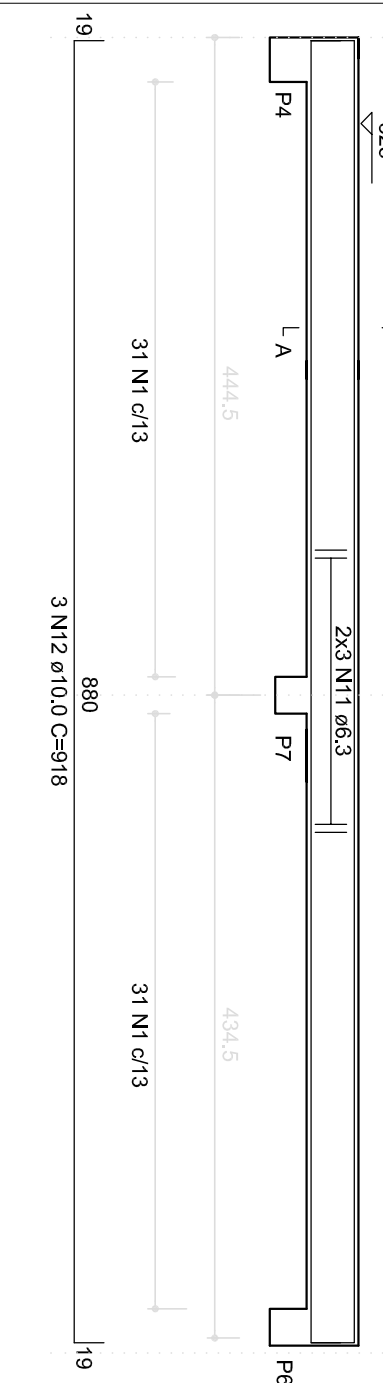
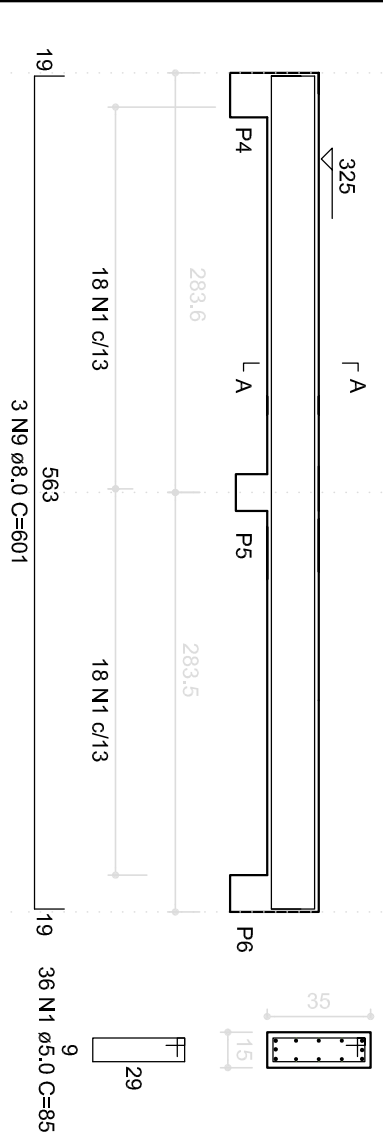
Escala 1:50

3 N10 ø10,0 C=918



SEÇÃO A-A

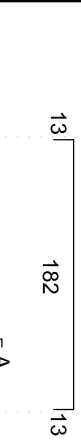
ESC 1:25



VF-5 (14 x 25)

Escala 1:50

2 N13 ø8,0 C=208



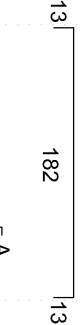
SEÇÃO A-A

ESC 1:25

VF-6 (14 x 25)

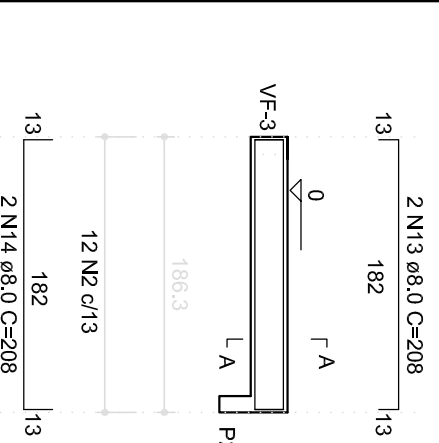
Escala 1:50

2 N15 ø8,0 C=208



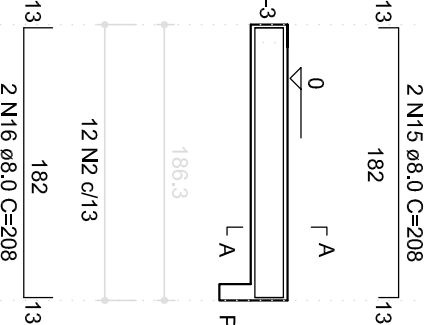
SEÇÃO A-A

ESC 1:25



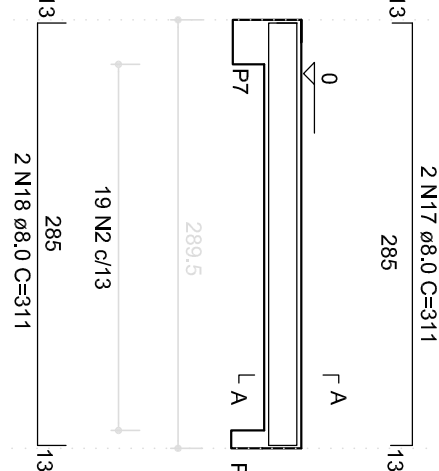
SEÇÃO A-A

ESC 1:25



SEÇÃO A-A

ESC 1:25



SEÇÃO A-A

ESC 1:25

PENALIDADE
7 0,10
7 0,20
7 0,30
7 0,40
7 0,50
7 0,60
7 0,70
7 0,80
7 0,90
7 1,00



EMPRESA MARANHENSE DE ADMINISTRAÇÃO PORTUÁRIA

E M A P

GOVERNO DO ESTADO DO MARANHÃO

TÍTULO: PROJETO URBANÍSTICO DE REQUALIFICAÇÃO DO CAIS DE SÃO JOSÉ DE RIBAMAR

LOGO:

Nº CONTRATADO:

DS-SJ-5101-0007-R00

DATA: JULHO 2015

PROJETO: ARMAÇÃO DAS VIGAS

ESCALA:

1/50

REVISÃO:

00

Nº PRANCHAS:

03

03