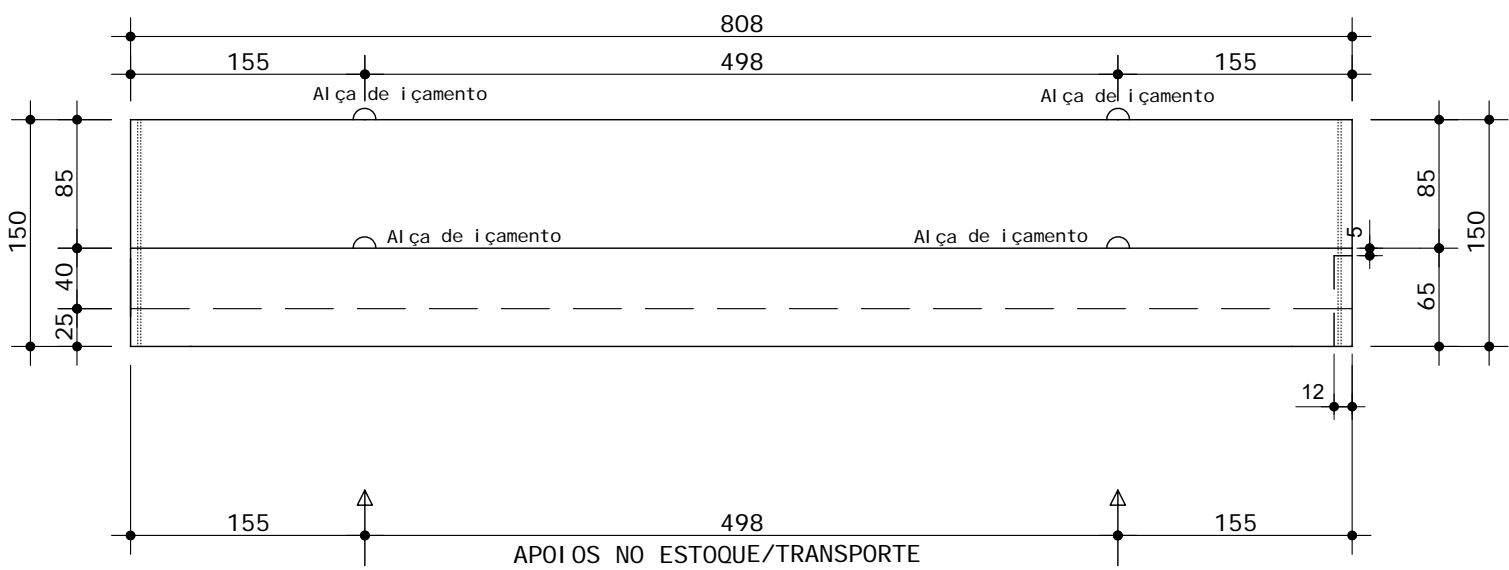
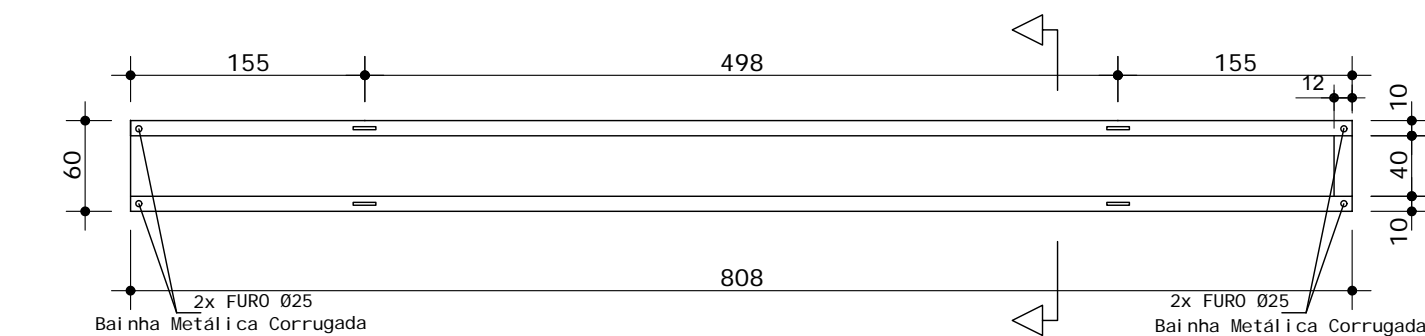


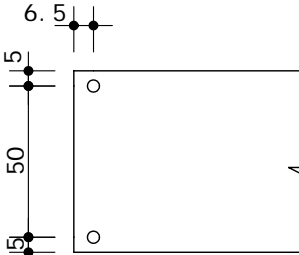
ELEVAÇÃO



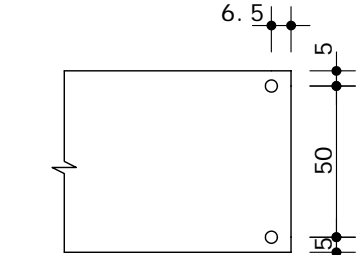
## PLANTA



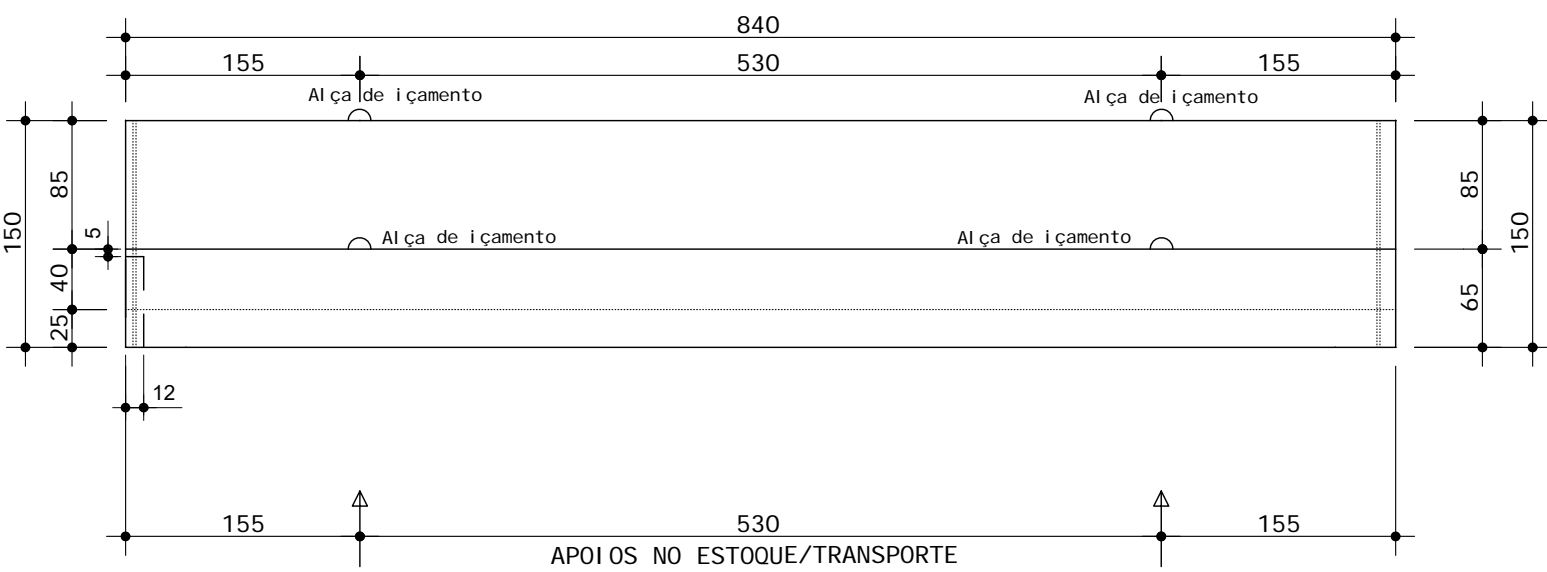
FUROS INICIALS  
(25 mm)



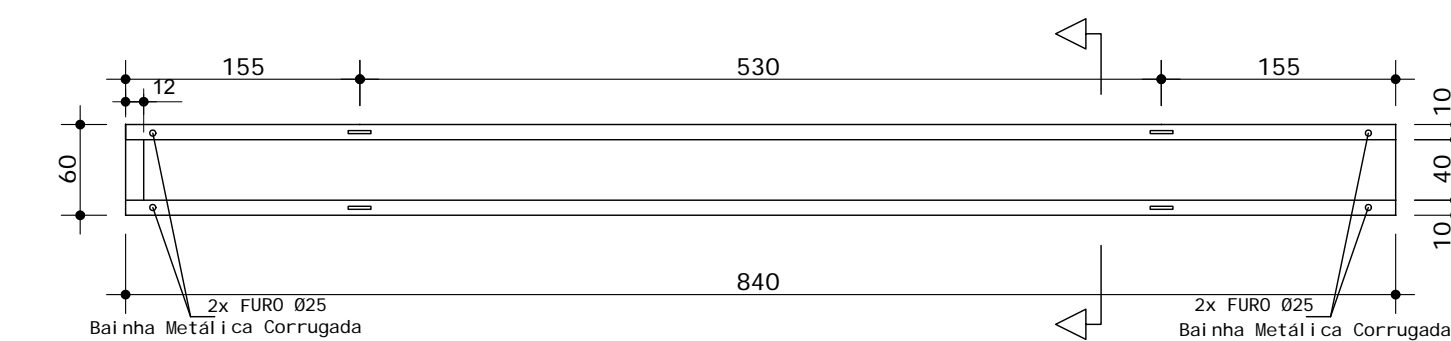
FUROS FINAIS  
(25 mm)



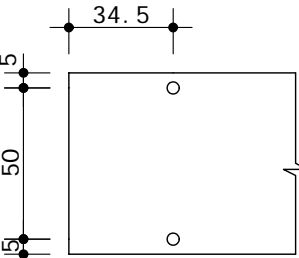
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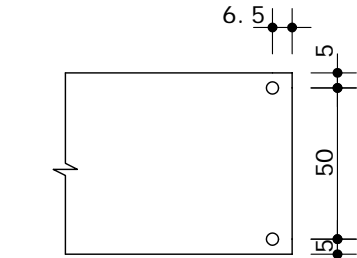
## PLANTA



FUROS INICIAIS  
(25 mm)

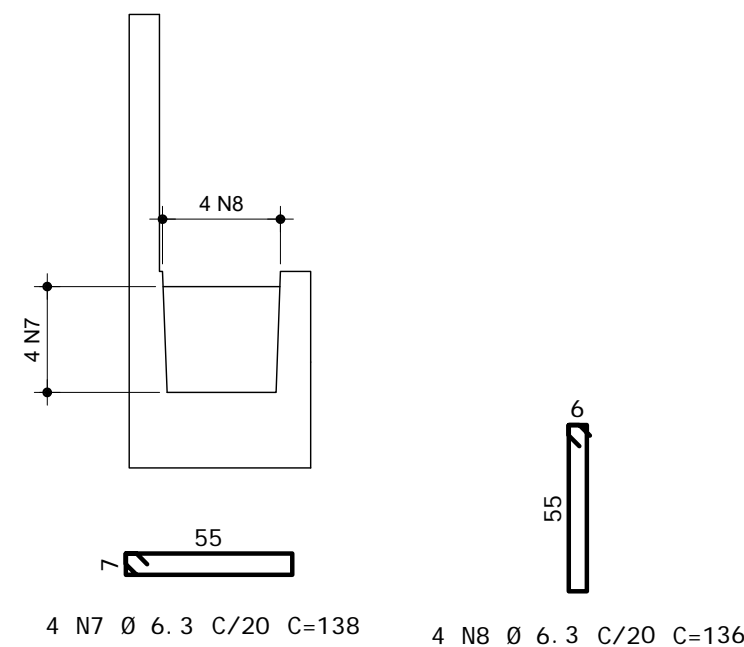


FUROS FINAIS  
(25 mm)

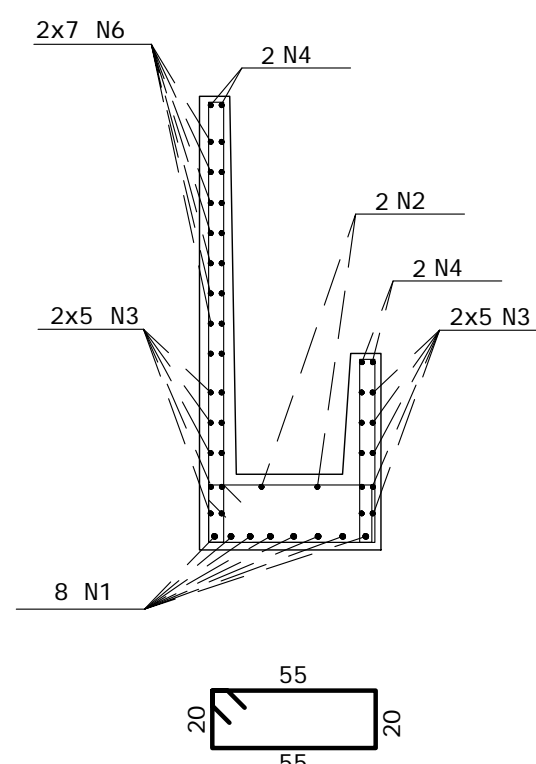
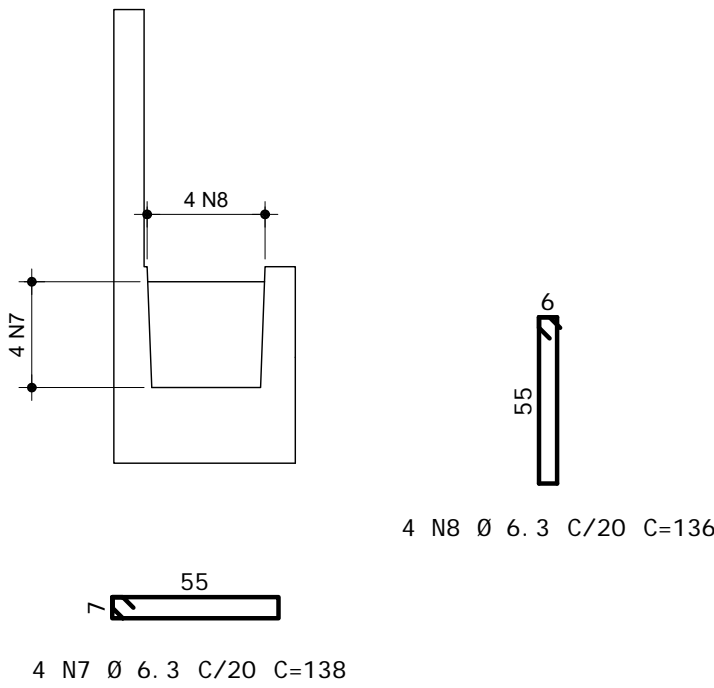


Technical drawing of a reinforced concrete slab cross-section. The drawing shows a rectangular slab with a total width of 802 mm and a total height of 150 mm. The top reinforcement consists of 4 bars (N4) with a diameter of 12.5 mm, spaced at 80 mm (C=80). The bottom reinforcement consists of 2 bars (N2) with a diameter of 12.5 mm, spaced at 80 mm (C=80). The slab is supported by a wall on the left and a column on the right. The wall has a thickness of 44 mm, and the column has a diameter of 44 mm. The slab is shown in a cross-section view with a dashed line indicating the reinforcement layout.

## ARMAÇÃO EXTREMI DADE DI REI TA



## ARMAÇÃO EXTREMI DADE ESQUERDA

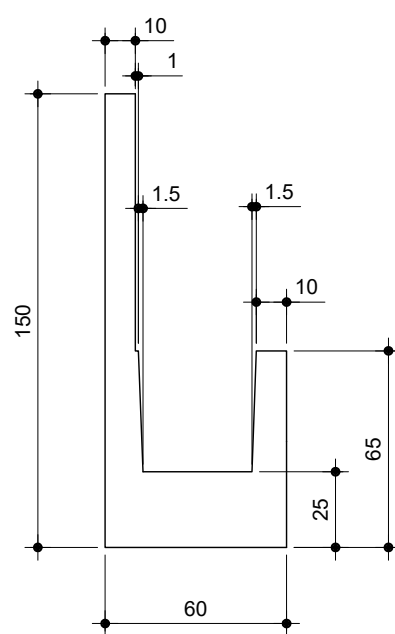


Pavimento	Quant	Volume unit	Volume total	Peso unit	Peso total
Cobertura(1x)	2	2.626	5.252	6.565	13.130
TOTAL S	2		5.252		13.130

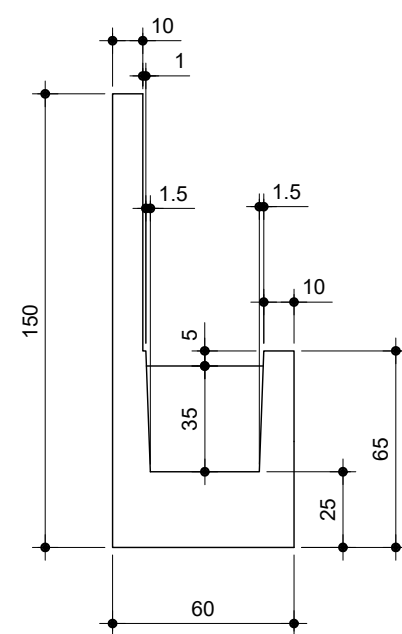
AÇO	POS	BI T	QUANT	COMPRIMENTO	
				UNI T	TOTAL
		mm		cm	cm
VP103b	(X2)				
50A	1	16	16	829	13264
50A	2	12,5	4	842	3368
50A	3	8	40	802	32080
50A	4	12,5	8	890	7120
50A	5	6	134	176	23584
50A	6	8	280	802	22456
50A	7	6,3	8	138	1104
50A	8	6,3	8	136	1088
50A	9	6,3	130	314	40820
50A	11	6,3	130	144	18720

RESUMO DE AÇO			
AÇO	BI T	COMPR	PESO
	mm	m	kgf
50A	6. 3	853	209
50A	8	545	215
50A	12. 5	105	101
50A	16	133	209
Peso Total +10%		50A =	806 kgf

## SEÇÃO



## EXTREMI DADE DI REI TA



NOTAS :

- 1- MEDIDAS EM MILÍMETRO, NÍVEIS EM METRO
- 2- CARACTERÍSTICAS DO CONCRETO ESTRUTURAL (CAA II):
  - VIGAS PRÉ FABRICADAS -  $f_{ck} \geq 40$  MPa  $E_{cs} \geq 30,1$  GPa;
  - PILARES PRÉ FABRICADOS -  $f_{ck} \geq 40$  MPa  $E_{cs} \geq 30,1$  GPa;
  - CONCRETO MOLDADO IN LOCO -  $f_{ck} \geq 30$  MPa  $E_{cs} \geq 26,1$  GPa;
- 3- EXIGÊNCIA DO GRAUAMENTO DA INTERFACE DAS VIGAS, PILARES E LAJES ALVEOLARES COM O MATERIAL:
  - GRaute:
    - $f_{gk} \geq 40$  MPa;
    - ISENTO DE RETRAÇÃO.
  - FLUIDEZ ADEQUADA PARA PERFEITO PREENCHIMENTO DO VÃO ENTRE OS ELEMENTOS
- 4- ELASTÔMERO SIMPLES  $e=10$ mm, DUREZA 70 SHORE-A
- 5- EXCENTRISMO = 2,5 CM.

[illegible]

**CDHU** Companhia de Desenvolvimento Habitacional e Urbano

Rua Boa Vista,170 . São Paulo . Tel.2505.2000 . CNPJ 47.865.597/0001-09

CONTRATO  
SECRETARIA DE DESENVOLVIMENTO ECONÔMICO

PROJETO

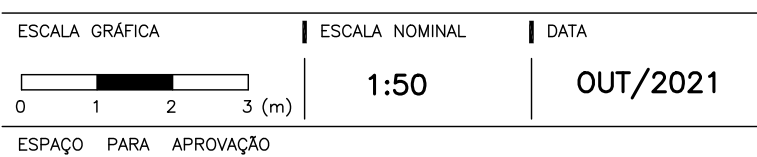
SDE\_074—ETEC JOSÉ MARTIMIANO DA SILVA  
REFORMA E AMPLIAÇÃO

ENDEREÇO / MUNICÍPIO

R. Tamandaré, 520—Campos Elíseos—Ribeirão Preto

DISCIPLINA	ÁREA	FOLHA
ESTRUTURA	EST	251/254

ESTRUTURA DE CONCRETO  
PROJETO EXECUTIVO  
ARMAÇÃO DAS VIGAS PRÉ-MOLDADAS 20/21  
BLOCO PEDAGOGICO



CÓDIGO CDHU EMPREENHIMENTO											
Projeto					Região		Município		Versão	Etap	do Projeto
0	0	0	6	5	0	6	1	3	0	P	E