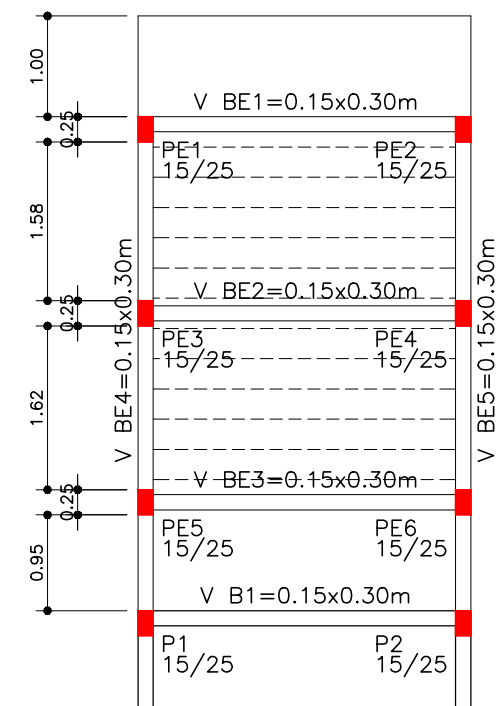


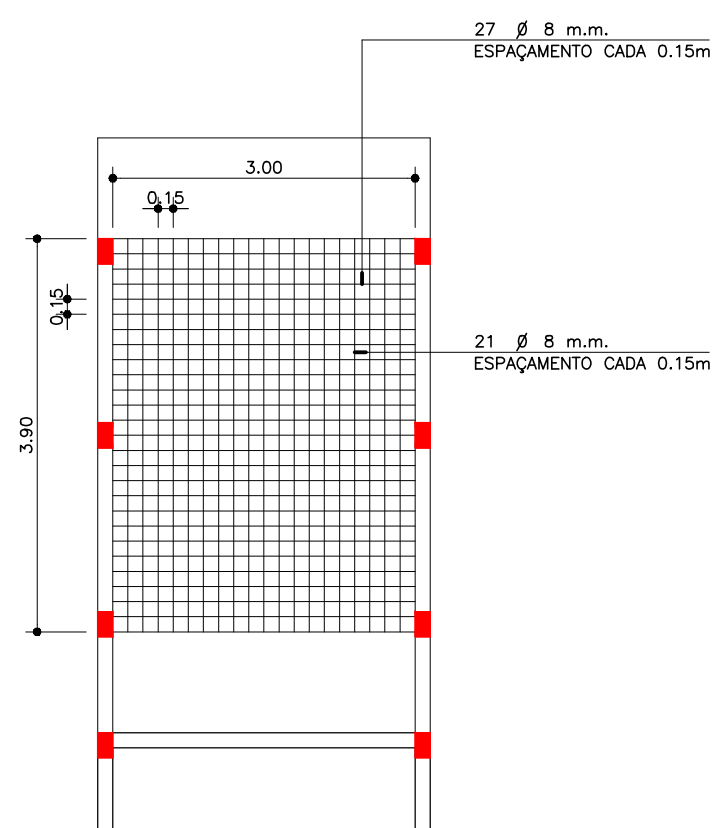
DETALHE – VIGA DE AMARRAÇÃO ESCADA 0.15x0.20m



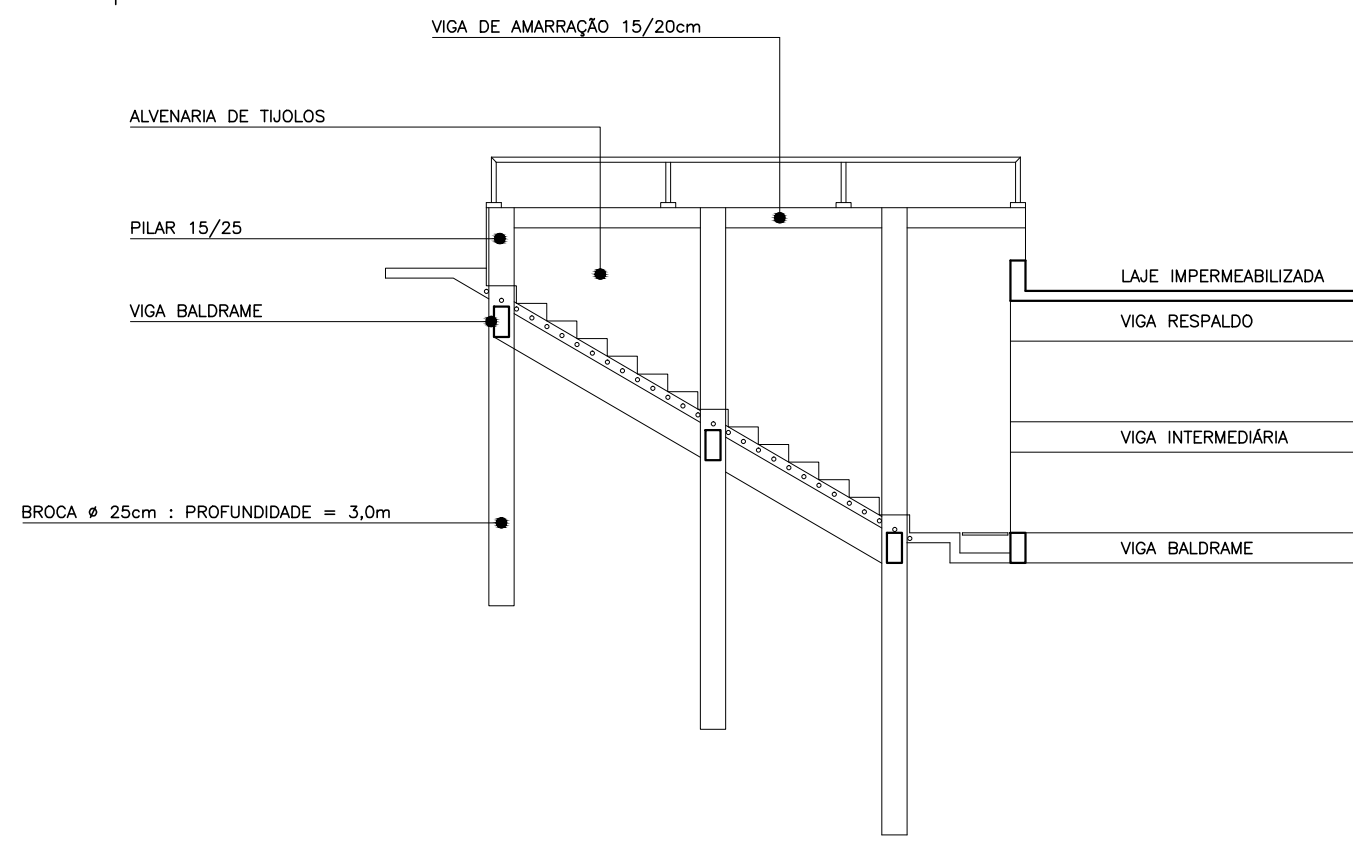
ESTRIBO



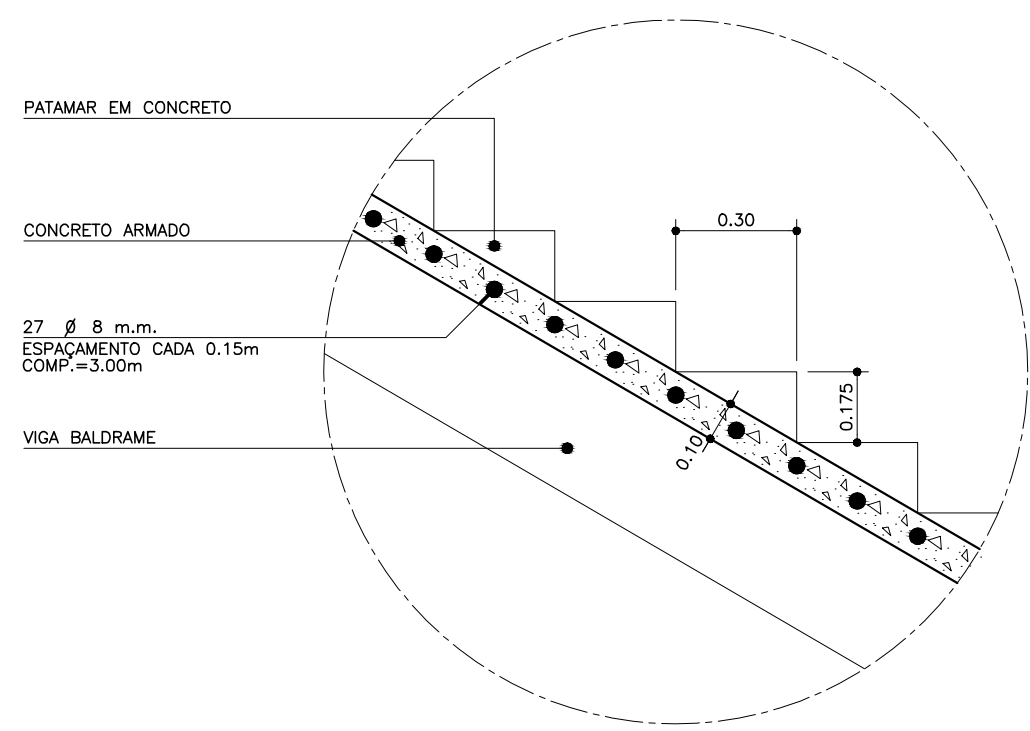
PLANTA – PILARES



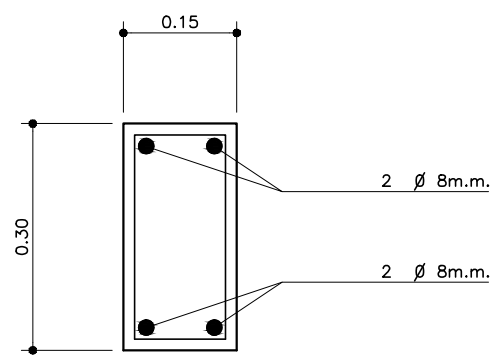
PLANTA – MALHA FERRAGEM



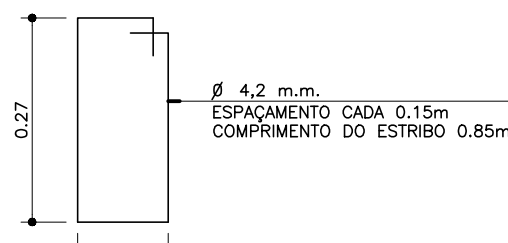
CORTE



DETALHE 01

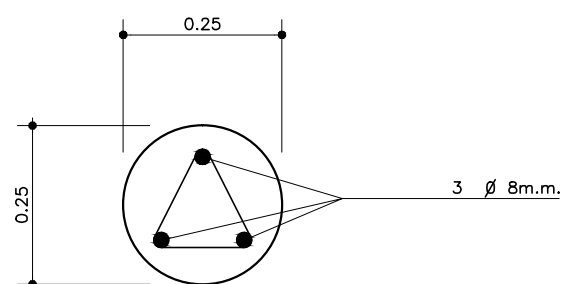


DETALHE – VIGA BALDRAME = 0.15x0.30m

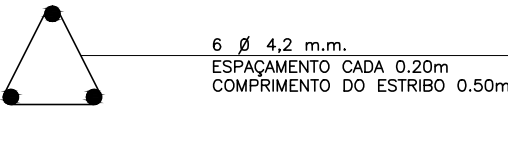


ESTRIBO

RESUMO DO AÇO – VIGA BALDRAME			
VOLUME CONCRETO FCK 25MPa = 5,17 M3			
ÁREA DE FORMA = 68,82 M2			
COMPRIMENTO	MASSA NOMINAL	KG	
Ø 8mm, CASO	458,8	0,395	181,23
Ø 4,2mm, CABO	649,95	0,109	90,99



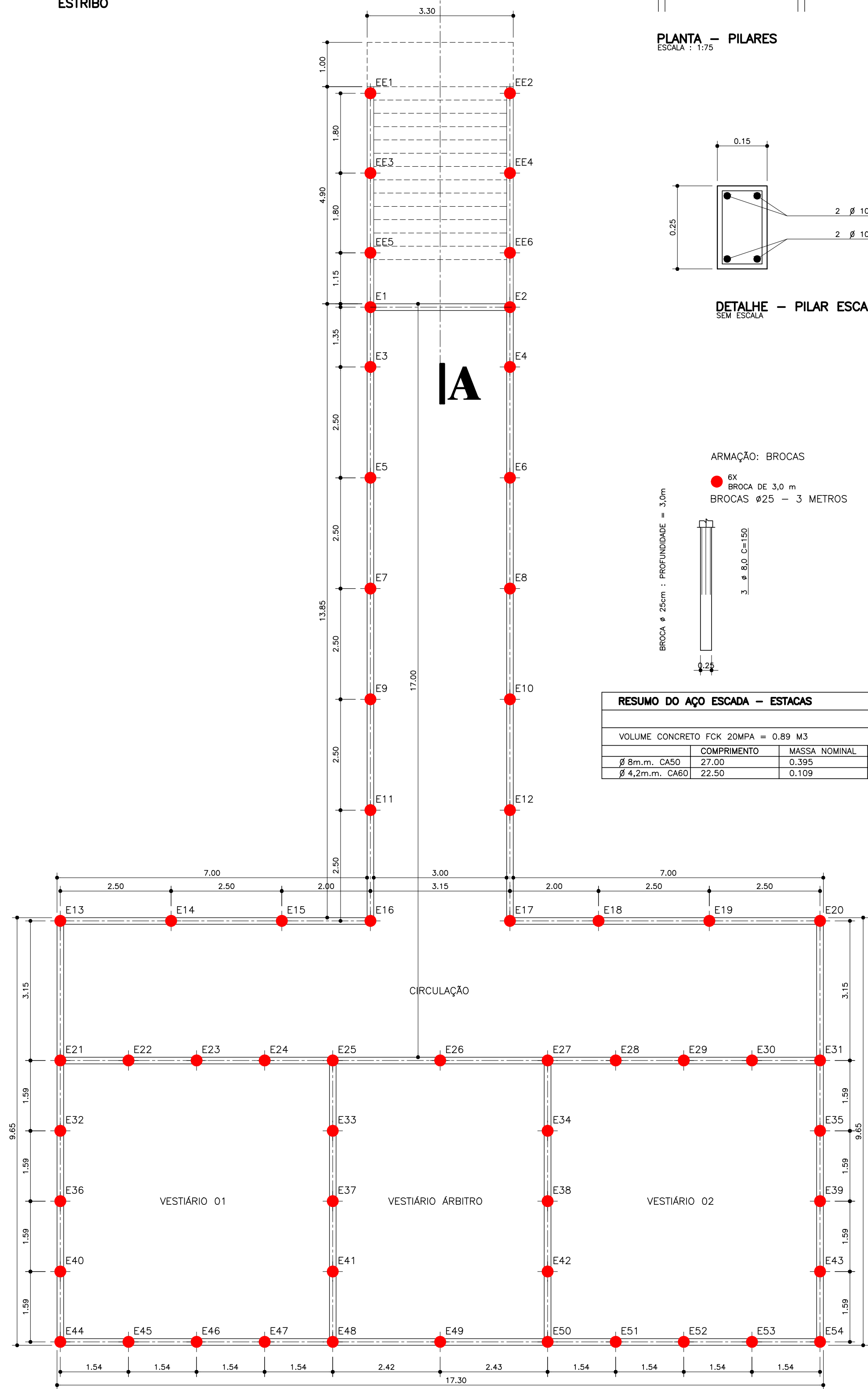
DETALHE – BROCA 54(X)= Ø 0.25m



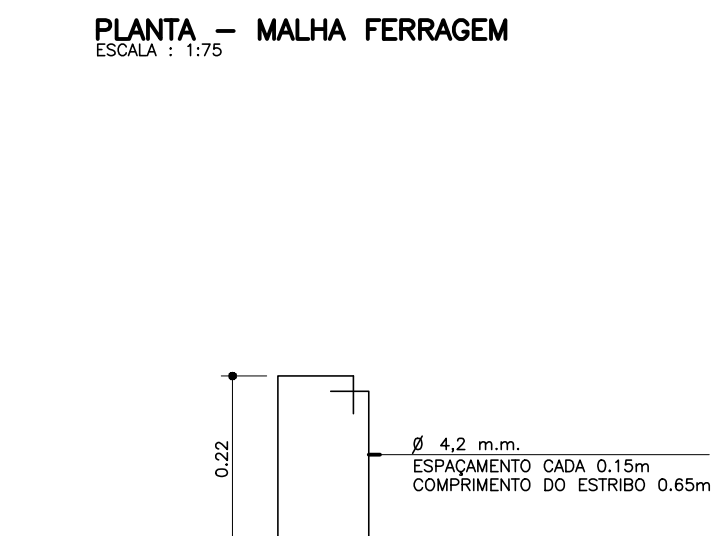
DETALHE – ESTRIBO

NOTA: PROFUNDIDADE DA BROCA = 1,00m
FCK 20 mpa

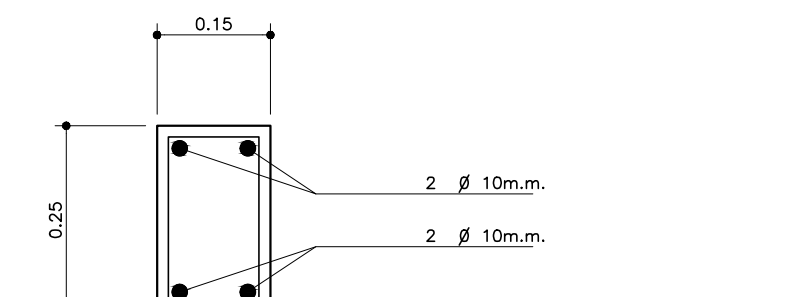
RESUMO DO AÇO – ESTACAS			
VOLUME CONCRETO = 31,80 M3			
ÁREA DE FORMA = 243,50 M2			
COMPRIMENTO	MASSA NOMINAL	KG	
Ø 8mm, CASO	243,50	0,395	95,99
Ø 4,2mm, CABO	202,50	0,140	28,35



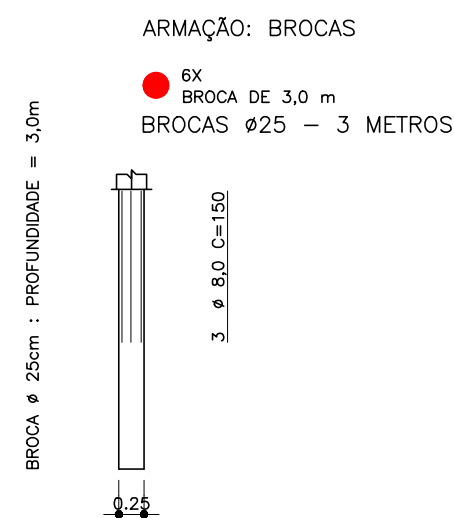
PLANTA – ESTACAS



ESTRIBO



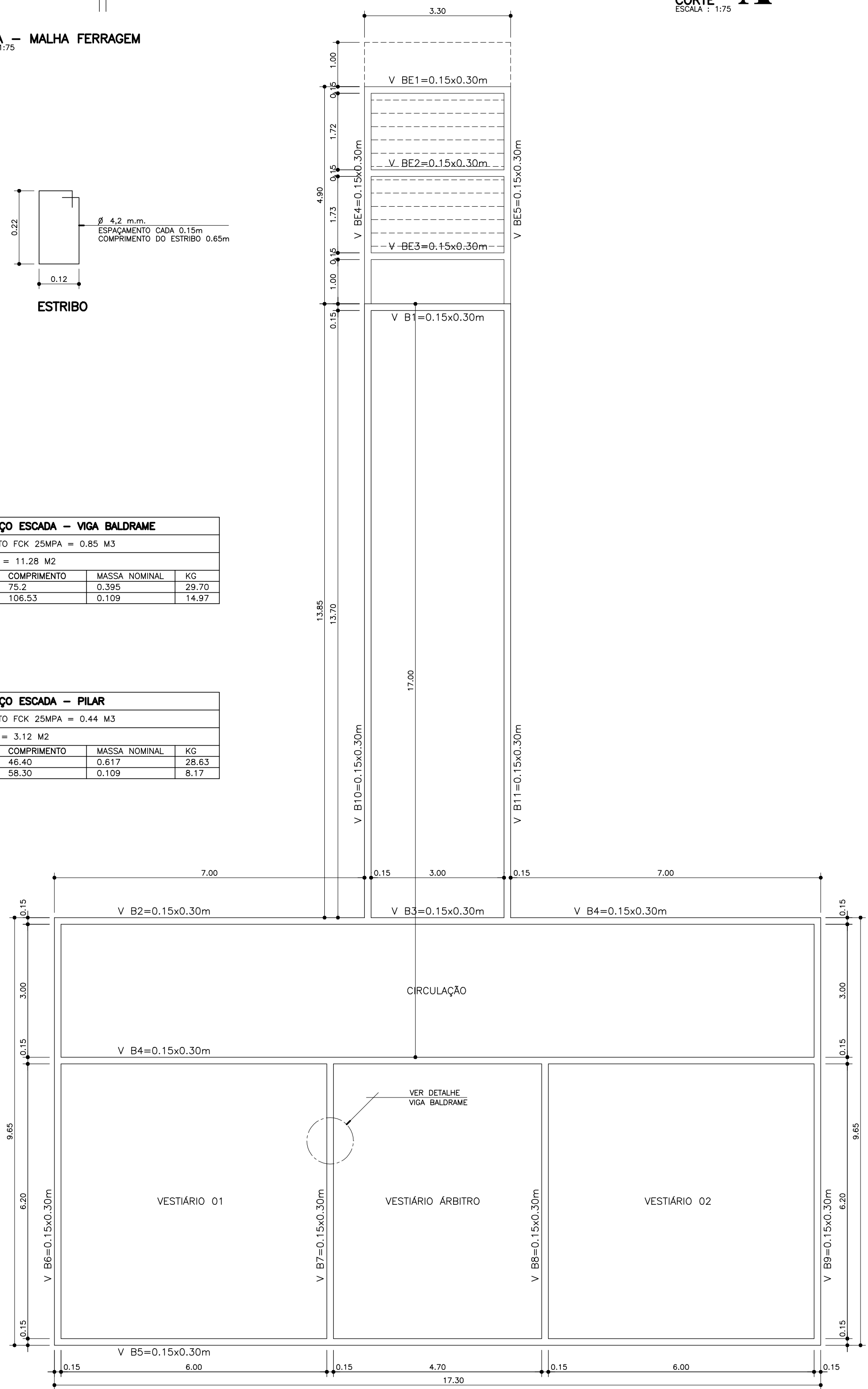
DETALHE – PILAR ESCADA 6(X) 0.15x0.25m



ARMAÇÃO: BROCAS
Ø 6x BROCA DE 3,0 m
BROCAS Ø25 – 3 METROS

RESUMO DO AÇO ESCADA – VIGA BALDRAME			
VOLUME CONCRETO FCK 25MPa = 0,85 M3			
ÁREA DE FORMA = 11,28 M2			
COMPRIMENTO	MASSA NOMINAL	KG	
Ø 8mm, CASO	17,2	0,395	29,70
Ø 4,2mm, CABO	106,53	0,109	14,97

RESUMO DO AÇO ESCADA – PILAR			
VOLUME CONCRETO FCK 25MPa = 0,44 M3			
ÁREA DE FORMA = 3,12 M2			
COMPRIMENTO	MASSA NOMINAL	KG	
Ø 10mm, CASO	46,40	0,617	28,63
Ø 4,2mm, CABO	58,30	0,109	8,17



PLANTA – BALDRAME

OBRA:	CONSTRUÇÃO DE VESTIÁRIO – ESTÁDIO MUNICIPAL DR. ANTÔNIO PEREIRA LIMA		
LOCAL:	RUA BENEDITO DESIDÉRIO – SANTA MARIANA – PR.		
PROP.:	PREFEITURA MUNICIPAL DE SANTA MARIANA		
	ADMINISTRAÇÃO JORGE RODRIGUES NUNES		
PRINCHA:	01/02	ESCALA:	INDICADA
DATA:	JANEIRO DE 2017		
ASSUNTO:	PROJETO ESTRUTURAL		
RESPONSÁVEL TÉCNICO			
GUSTAVO DE PAULA SPAGOLLA – ENG. CIVIL – CREA PR – 152.634/D – PORTARIA 041/2017			