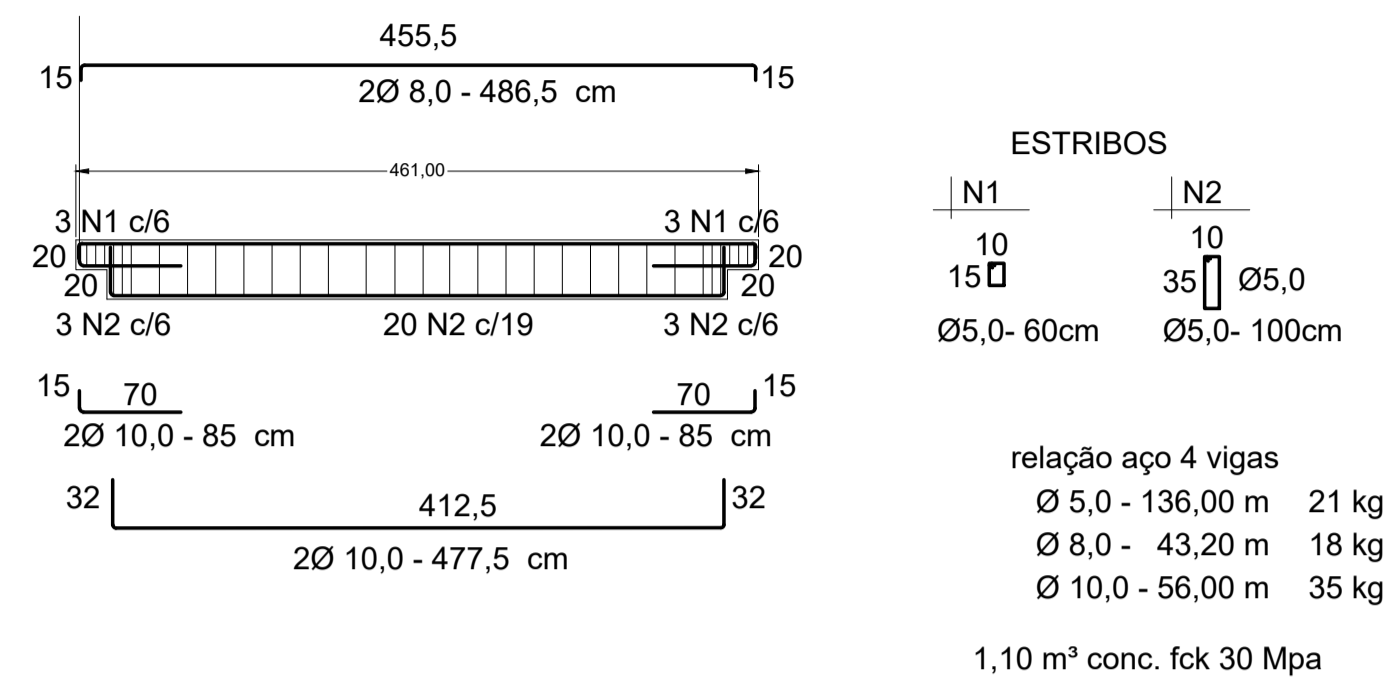
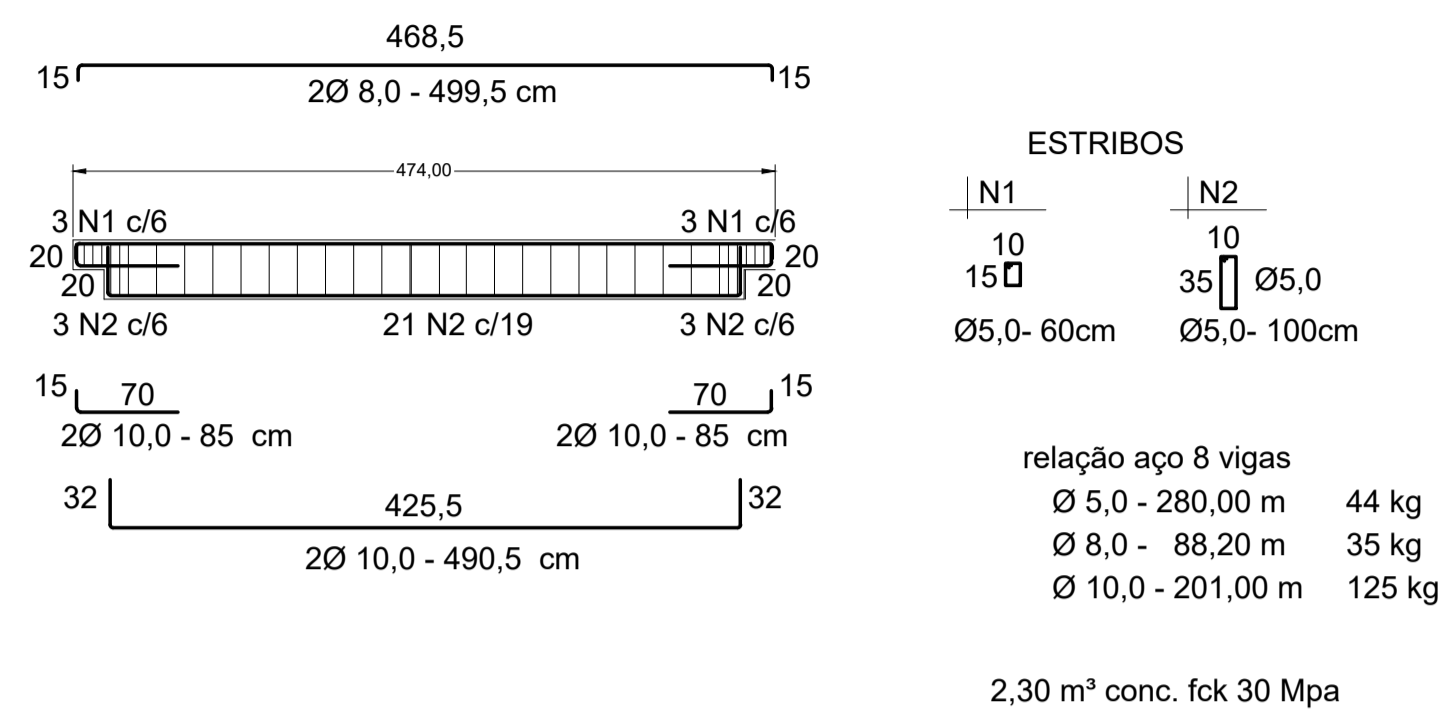


V1 (15x40) (4x)



V2 (15x40) (8x)

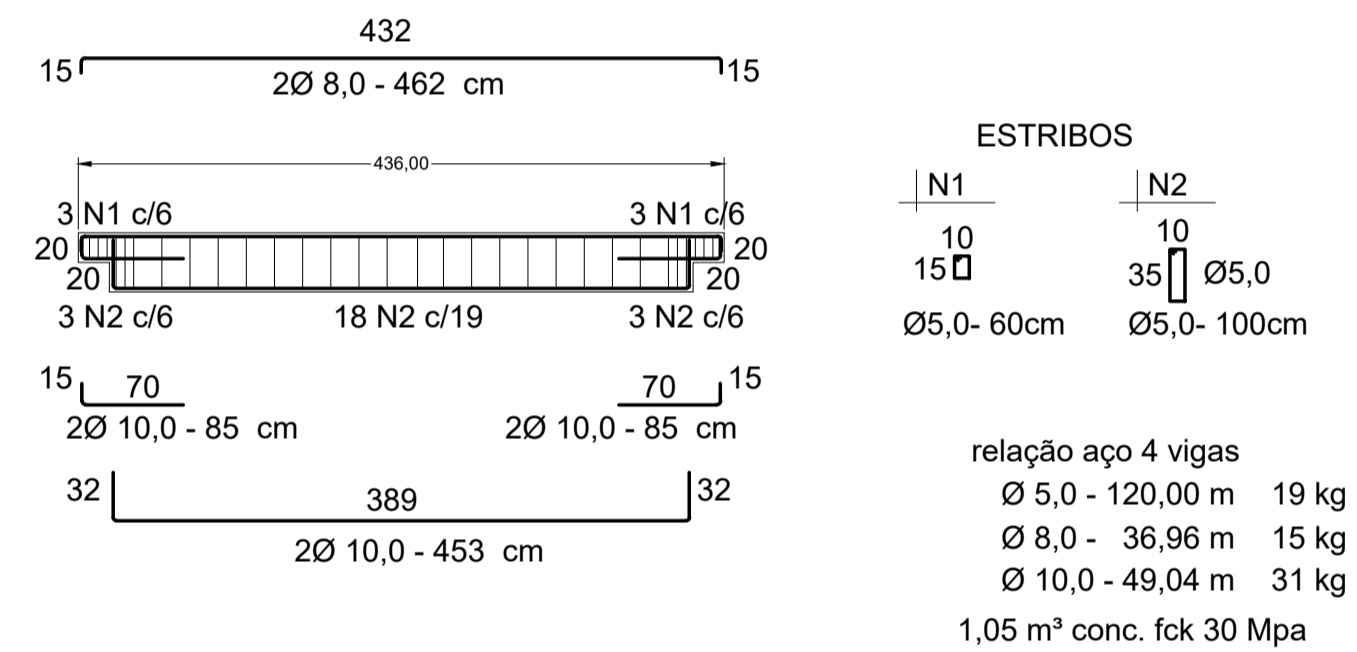


RELAÇÃO TOTA DO AÇO VIGAS E PILLARES E BLOCOS DE FUNDAÇÃO			
	COMPR.	kgf/m	PESO+10% (kg)
Ø 5,0	- 1.208,00 m	0,154	205
Ø 6,3	- 1.360,60 m	0,245	367
Ø 8,0	- 229,00 m	0,395	252
Ø 10,0	- 660,00 m	0,617	448
Ø 12,5	- 733,20 m	0,963	777
Ø 16,0	- 870,00 m	1,578	1364
			3413

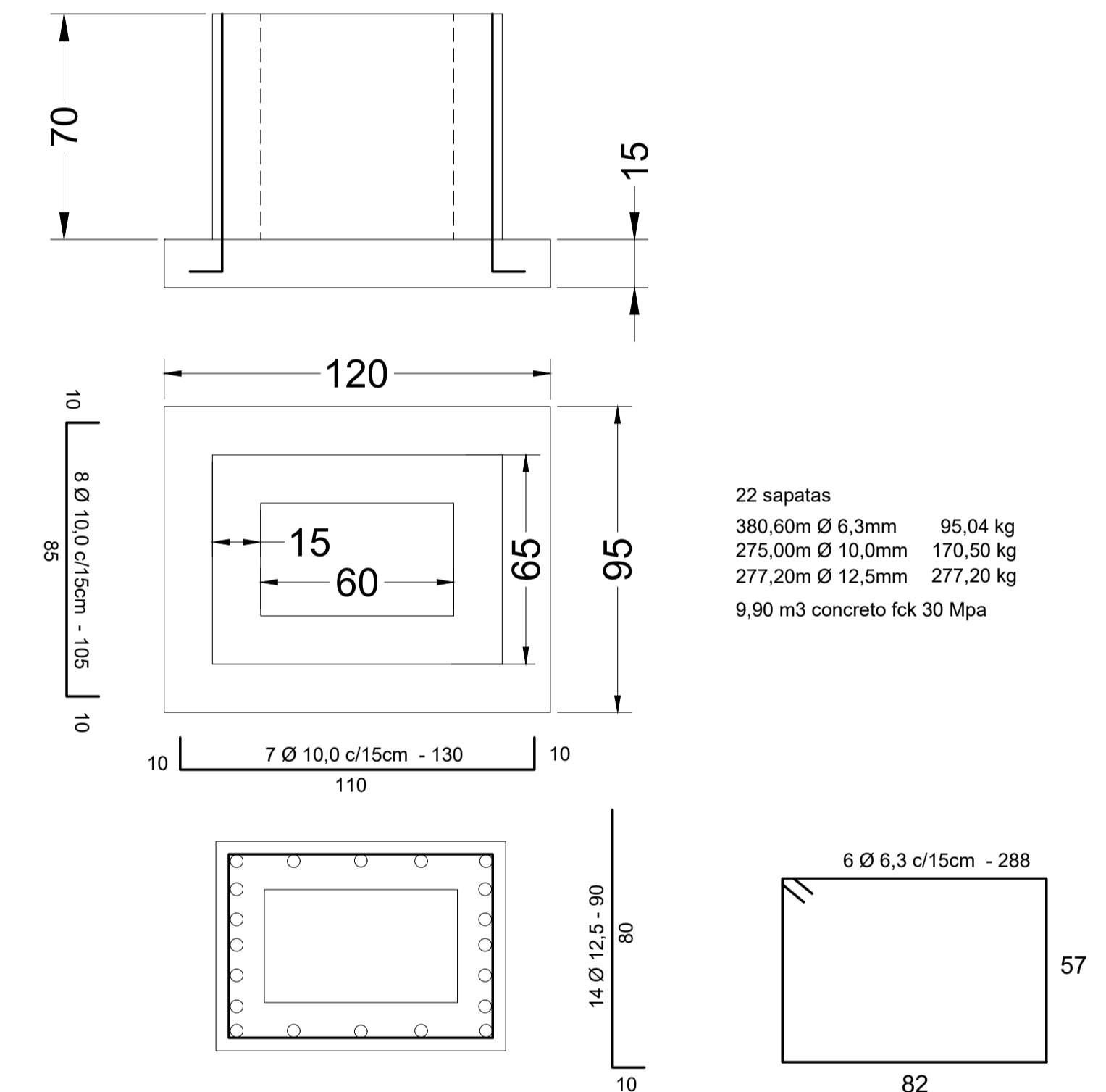
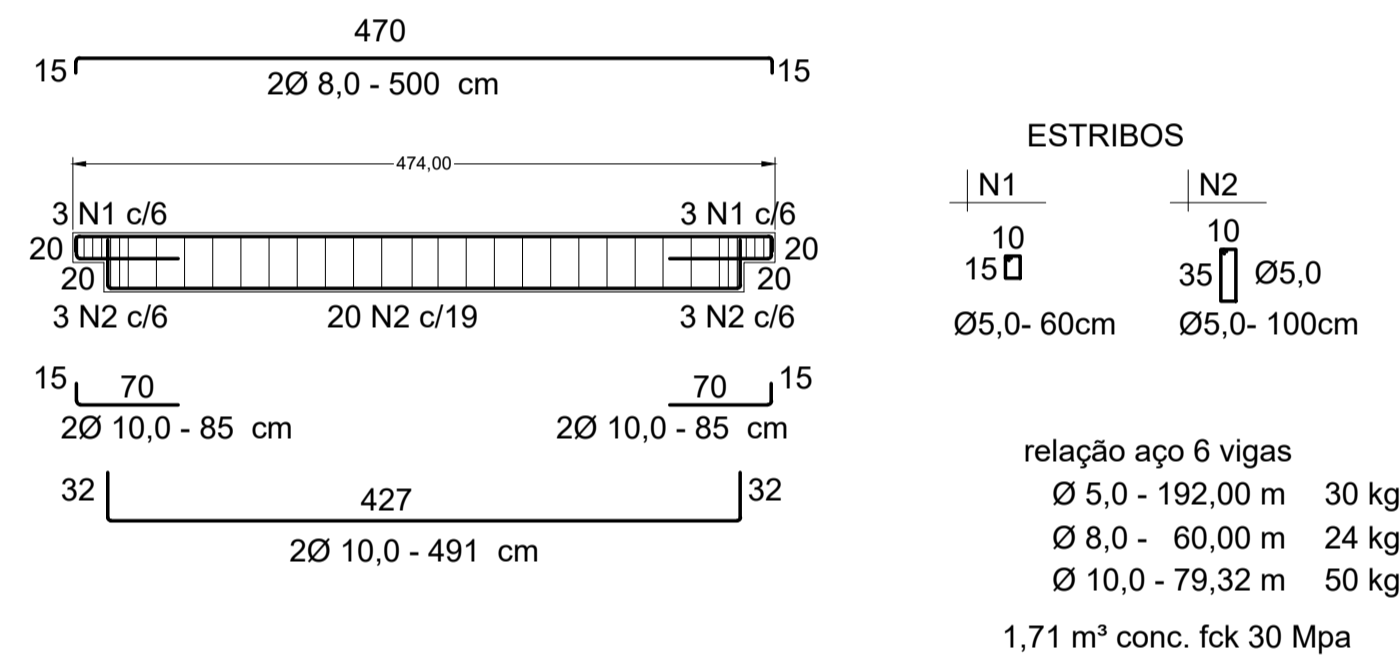
35,19 m³ conc. fck 30 Mpa

CHUMBADORES
 36 x (0,15m x 0,30m # 5/16") 101,16 kgf
 36 x 4 x 0,25 (1/2") - 36,00 kgf

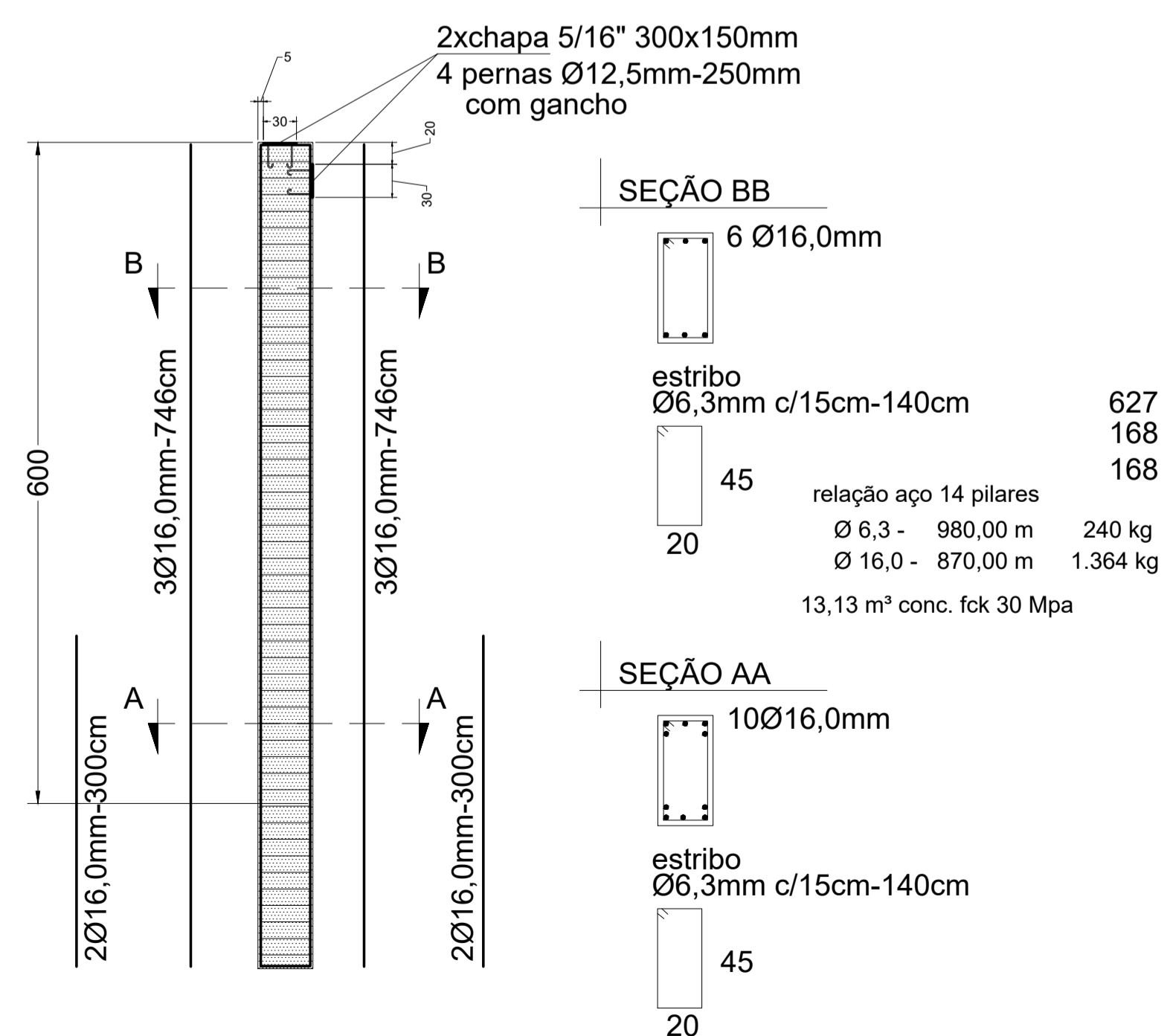
V3 (15x40) (4x)



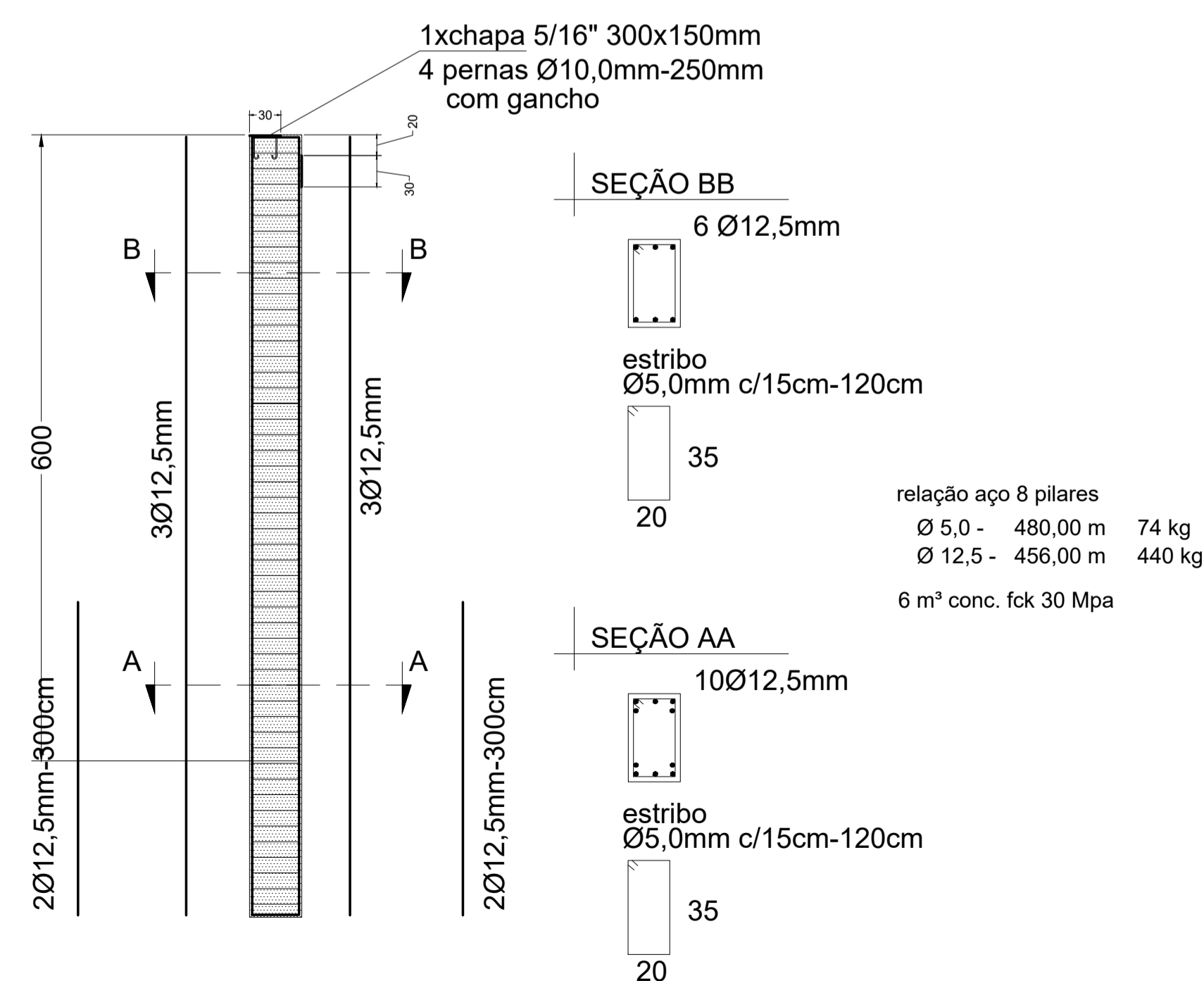
V4 (15x40) (6x)



P1(25x50) (14x)



P2(25x40) (8x)



obra	PROPRIETÁRIO: PREFEITURA MUNICIPAL DE IBIRUBÁ
	LOCAL DA OBRA: ESCOLA ESTADUAL EDSON QUINTANA - IBIRUBÁ RS
	CONSTRUÇÃO COBERTURA QUADRA POLIESPORTIVA
assunto	DETALHAMENTO PILARES E VIGAS PRÉ-MOLDADAS
	DATA: NOV/21
PROJETO ESTRUTURAL	
Proprietário:	Responsável Técnico:
Município de Ibirubá CNPJ: 87.564.381/0001-10	ENG. CIVIL ANDRÉ SCHIEFELBEIN CREA-RS 093.876 CRUZ ALTA-RS Fone: CEL (51) 9 9159 8247