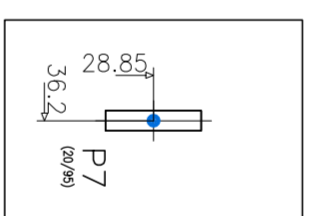
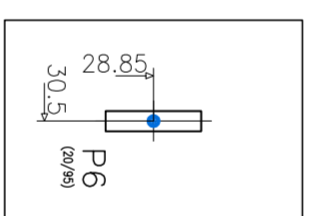
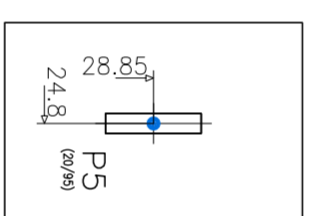
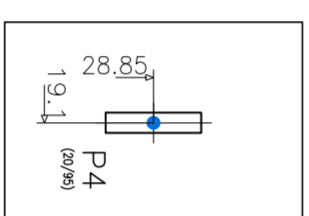
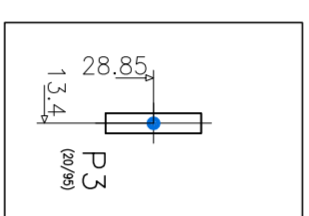
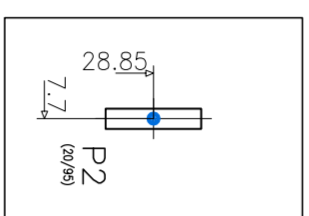
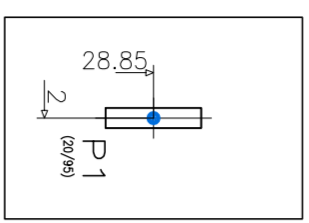
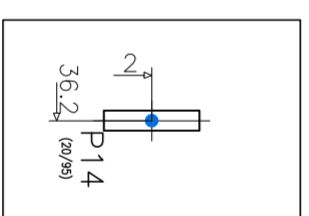
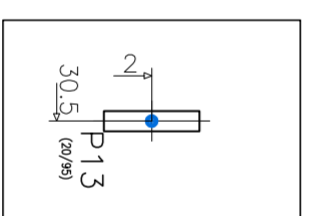
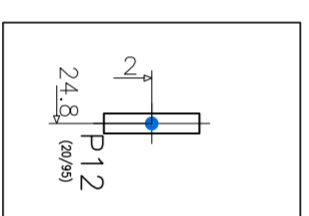
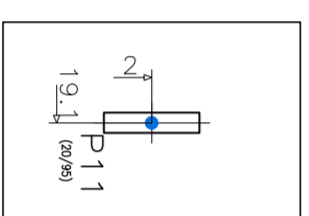
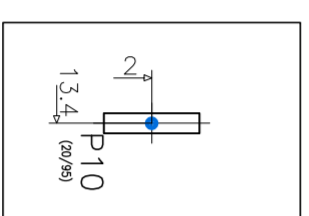
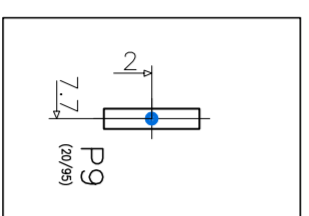
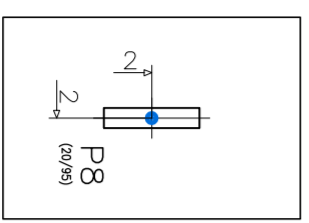


Eixo Y

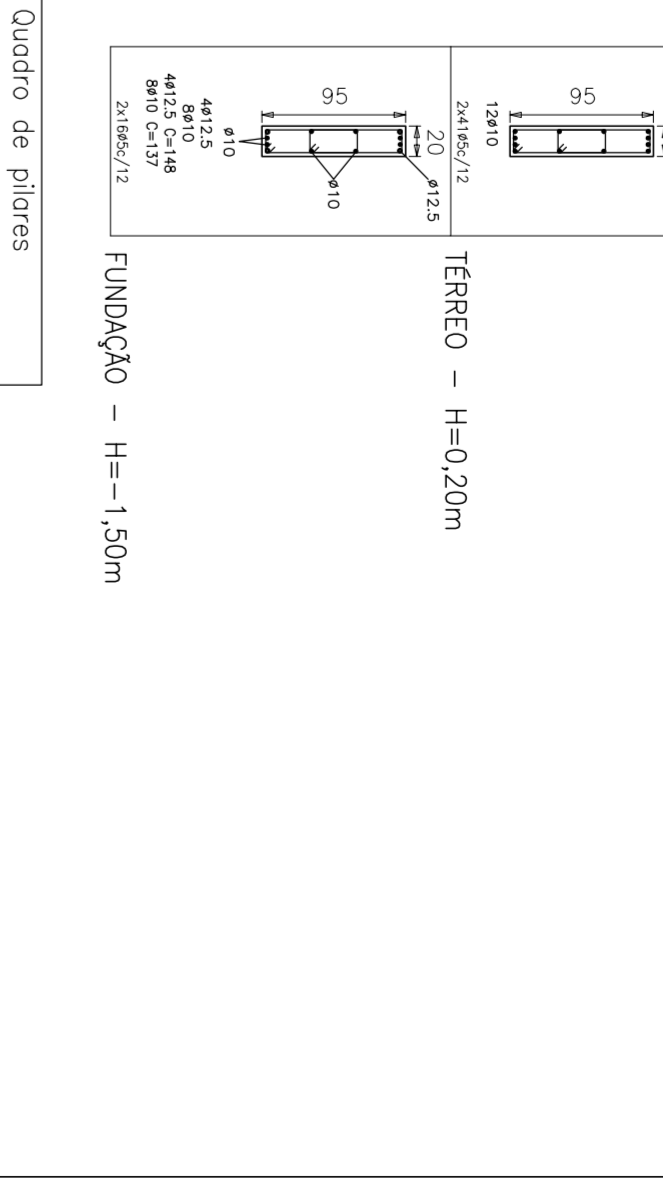


Eixo X



NÍVEL SUPERIOR DOS PILARES DA COBERTURA - H=5,00m

P1=P2=P3
P4=P5=P6
P7=P8=P9
P10=P11
P12=P13
P14



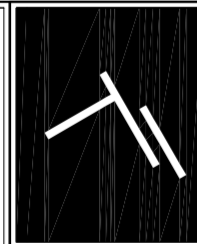
Quadro de pilares
Concreto - C20, em geral
Aço - CA-50/A e CA-60-B
Escala: 1:50

Quantitativos da Obra (exceto Fundação)			
Elemento	Formas (m ²)	VOLUME (m ³)	Barra (Kg)
Vigas	-	3,12	28,00
Forma fundo	8,58	-	-
Forma lateral	46,20	-	-
Pilares	-	16,38	158,00
Forma	197,40	-	-
Total	252,18	19,90	1776,00

Elemento	Quantitativos da Obra (Fundação)			Concreto (m ³)	
	CA-50/A (Kg)	CA-60-B (Kg)	Total	C15	C20
Referências: P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13 e P14	1447,57	144950,41	2301,18	1440,78	1440,59
Totais	105,98	89,46	2109,74	10,92	8,26

FUNDÇÃO - H=1,50m
Pilares
Escala: 1:7,5

Resumo do Concreto			
Elemento	Classe (m ³)	VOLUME (m ³)	
Vigas	20	3,12	
Pilares	15	16,38	
Fundação	20	8,26	
Total		27,76	



JOSÉ AROLDO QUEIROGA DE MORAIS
Engenheiro Civil

PROJETO: **Projeto de Estrutura de Concreto Armado da Cobertura de uma Quadra Políesportiva**

PROPRIETÁRIO: **SECRETARIA MUNICIPAL DE URBANISMO**

PROJETO:	ELABORADO POR:	REVISADO POR:	DATA:	ESTADO:	ESCALA:
	PROF. JOSÉ AROLDO QUEIROGA DE MORAIS	PROF. JOSÉ AROLDO QUEIROGA DE MORAIS	20/01/2021	1	1:50