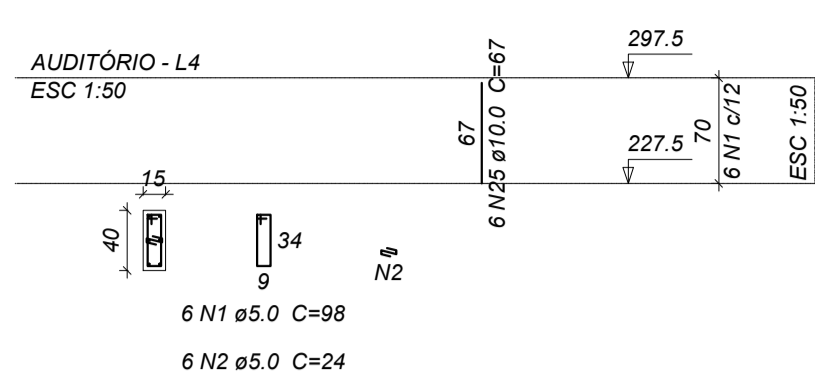
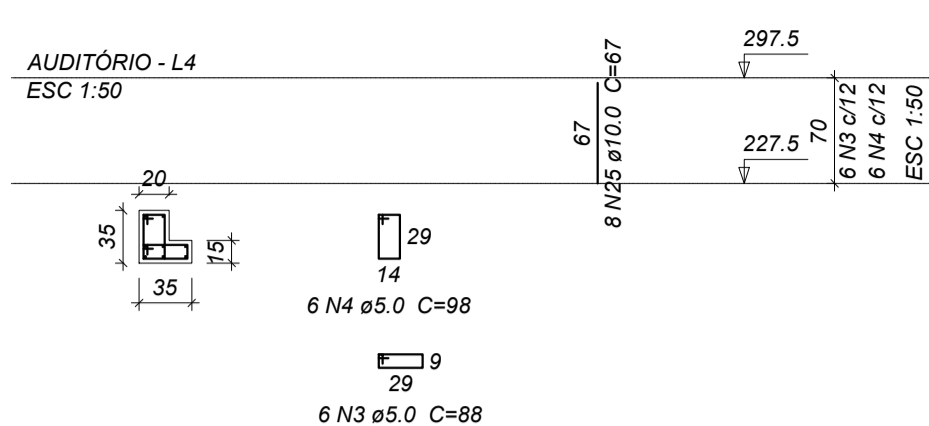


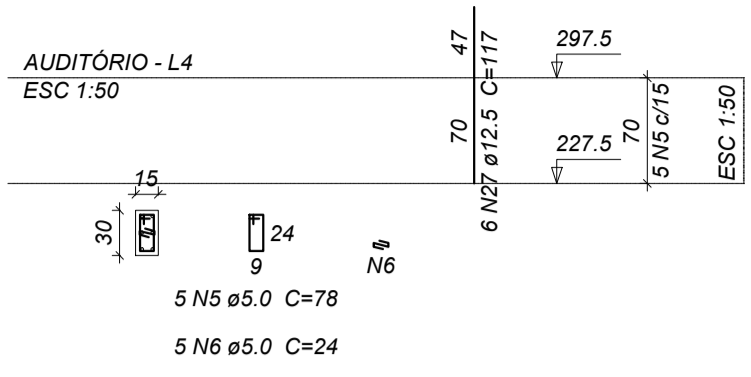
P39=P67



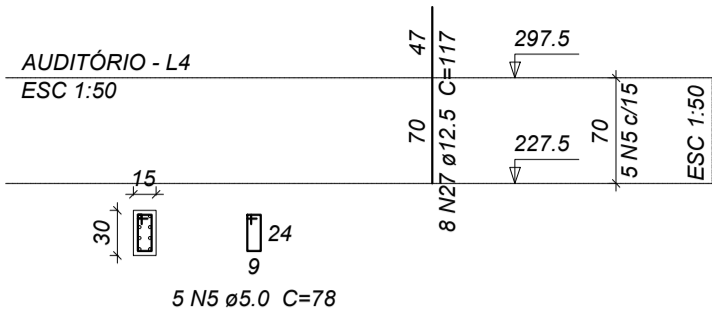
P40



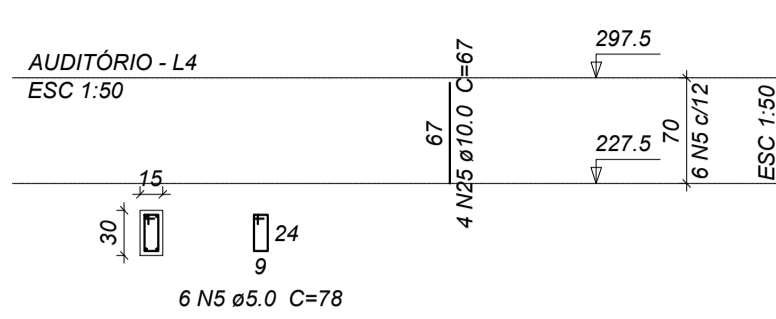
P42=P60=P61=P70=P81



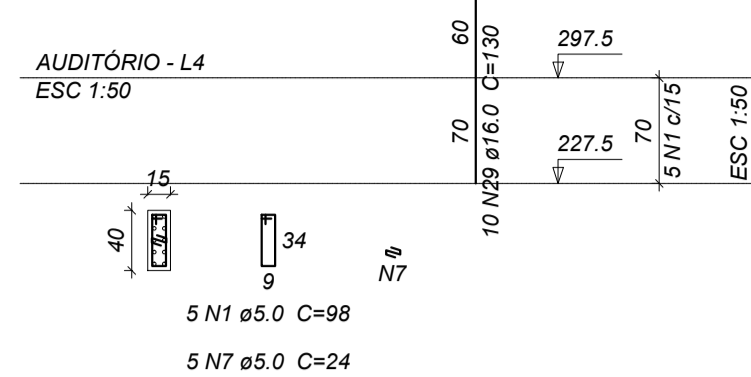
P48



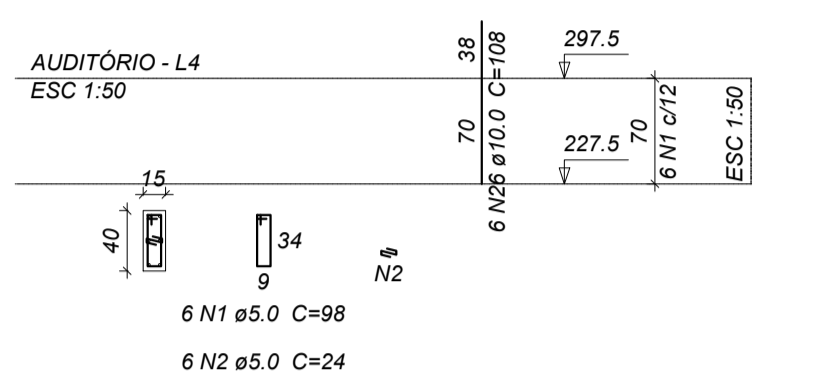
P49=P64



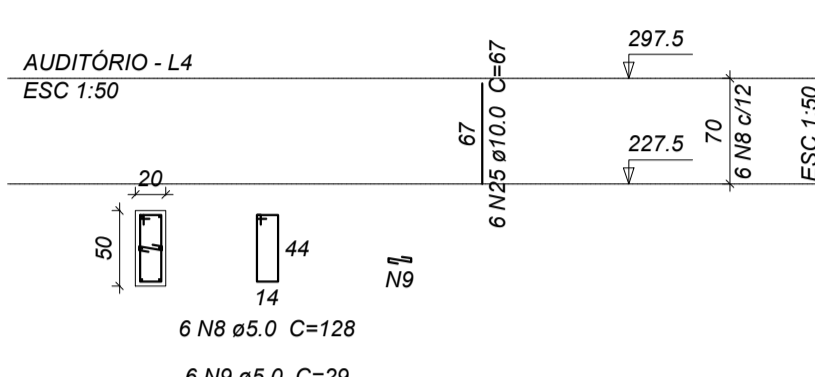
P50



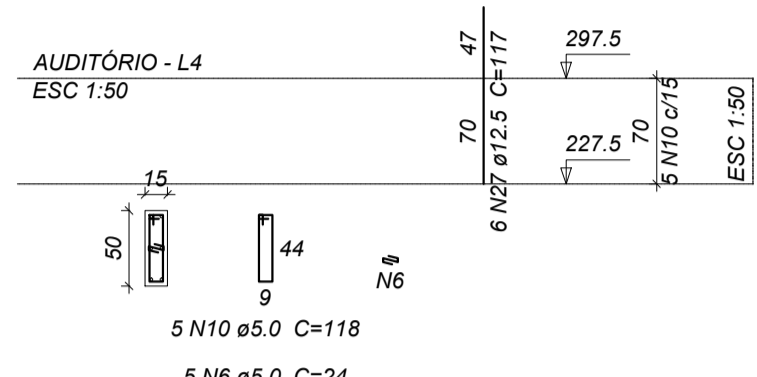
P51=P78=P87



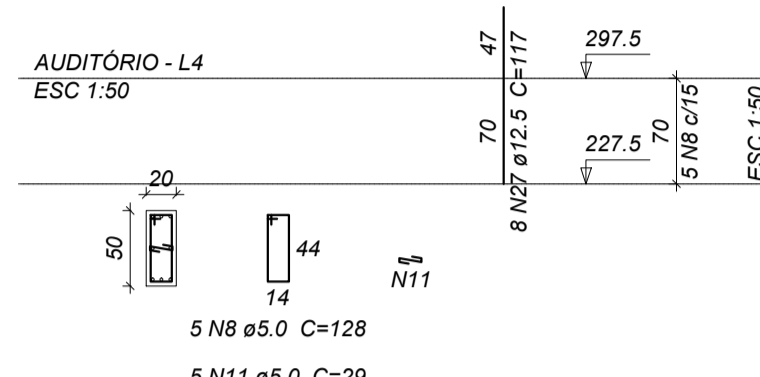
P53



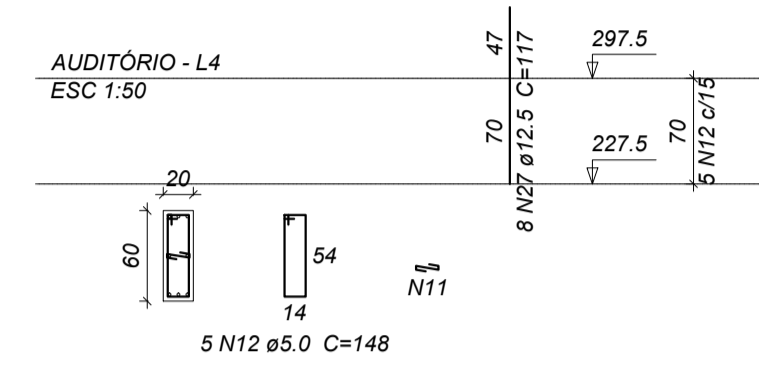
P62



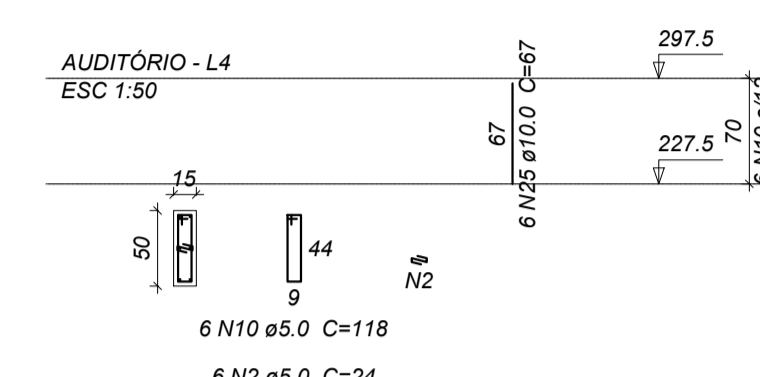
P63



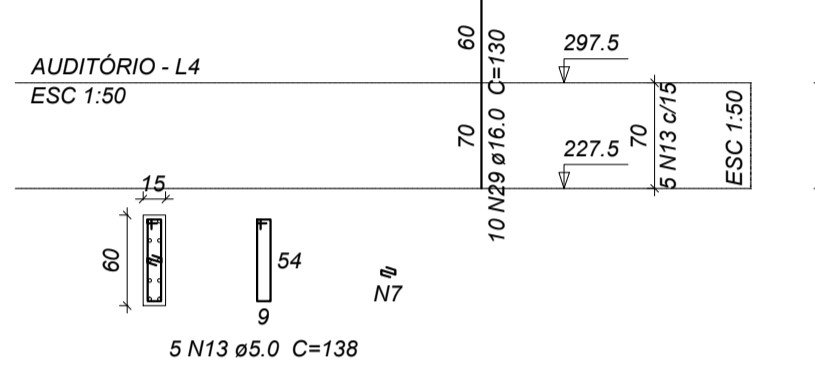
P66



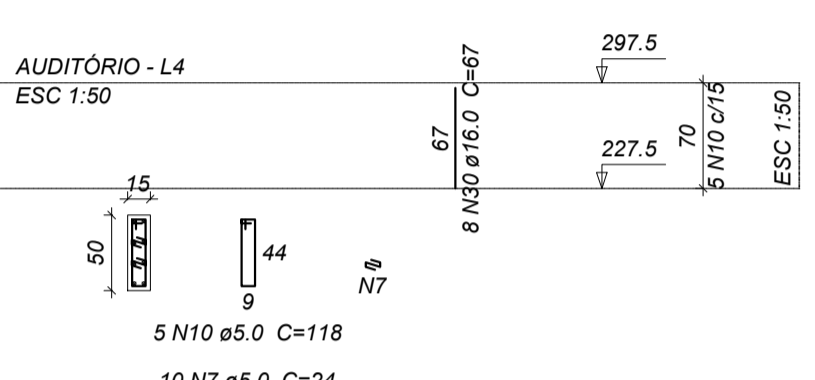
P68



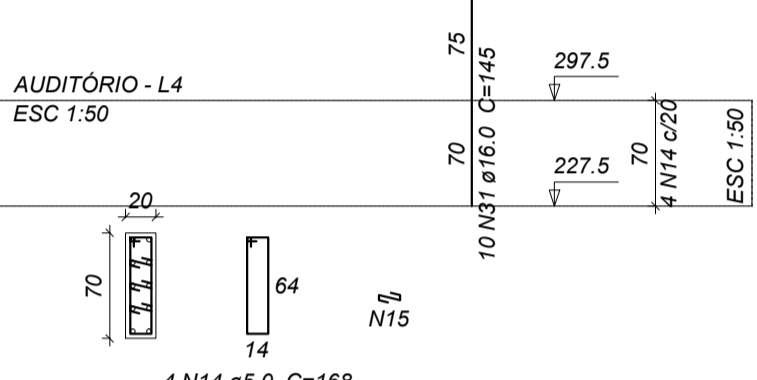
P77



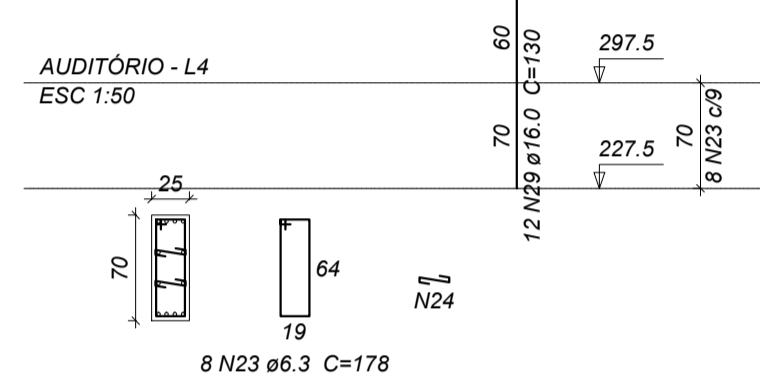
P82



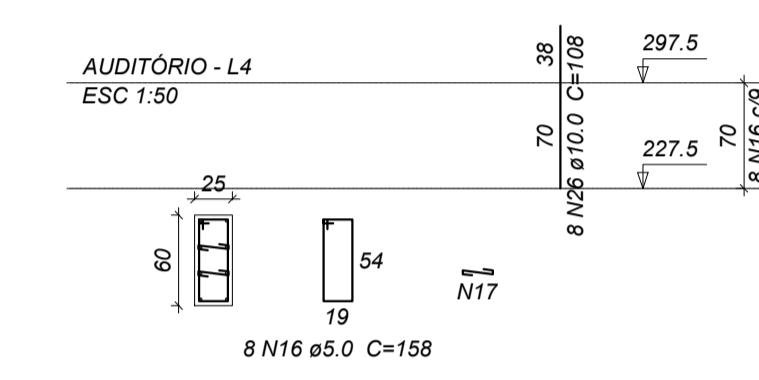
P86



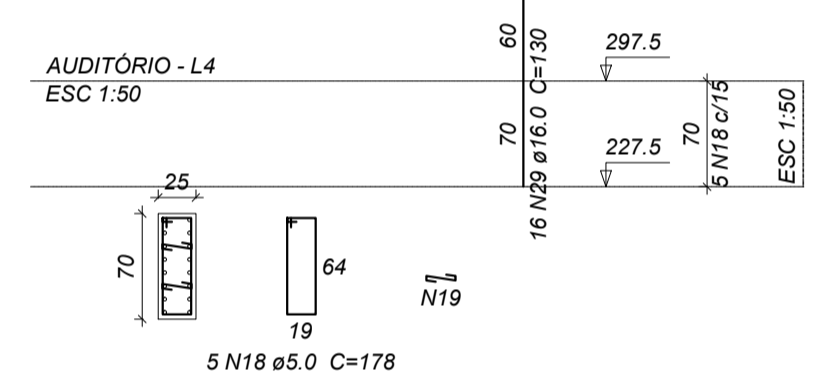
P90



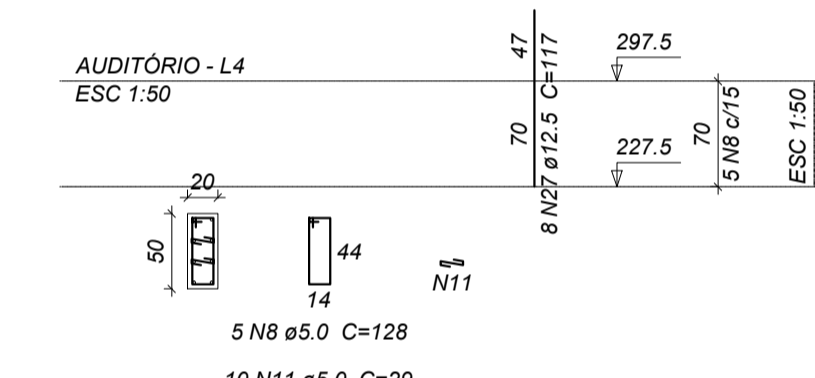
P92



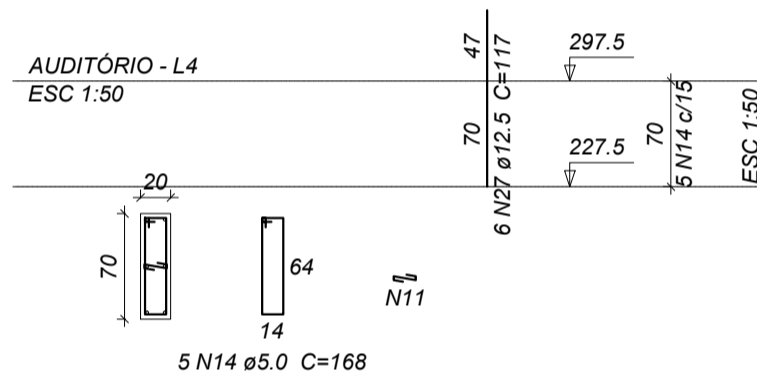
P97



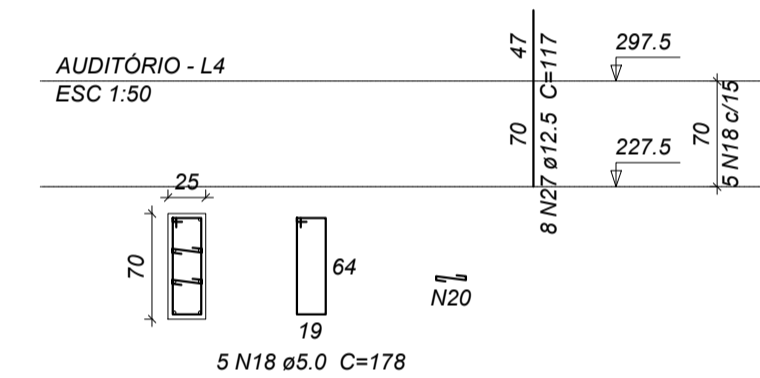
P98



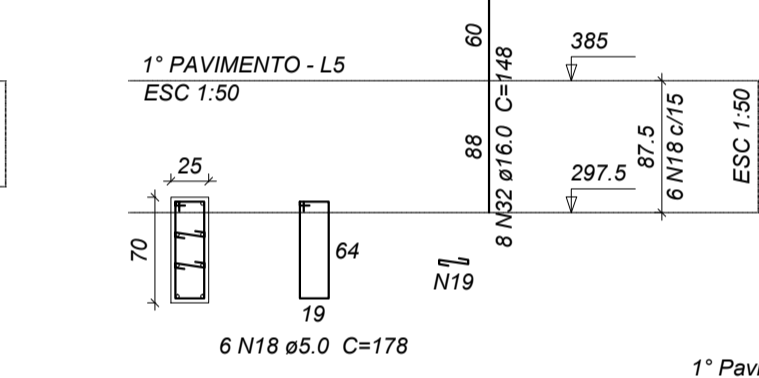
P100=P101



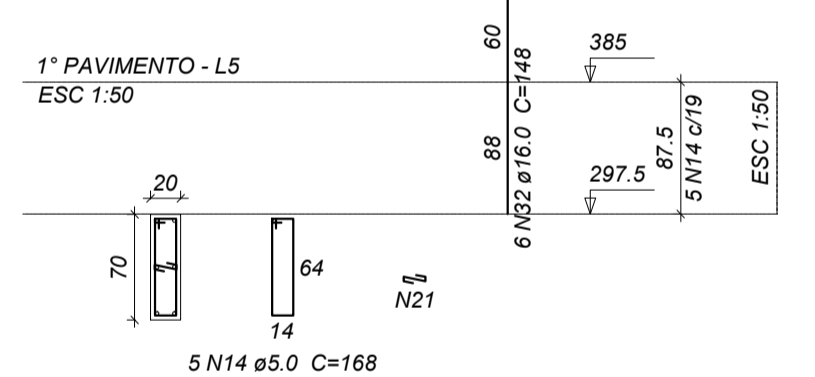
P103



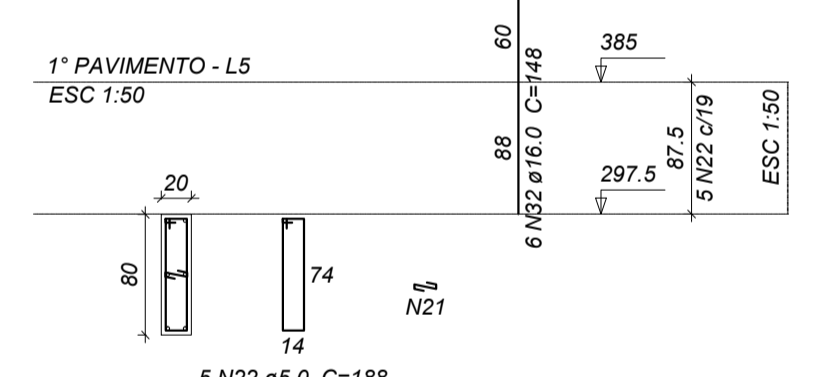
P1



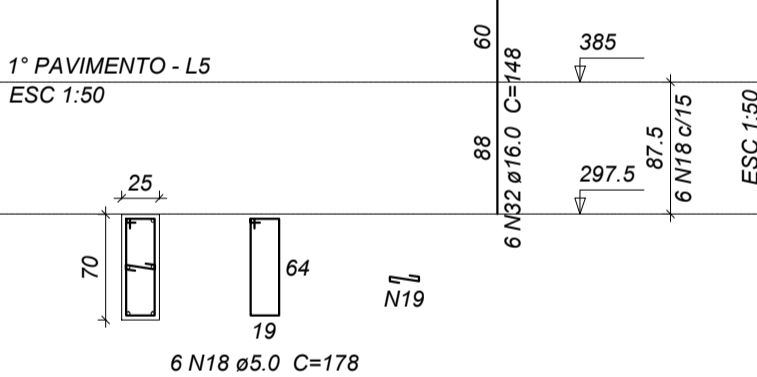
P3



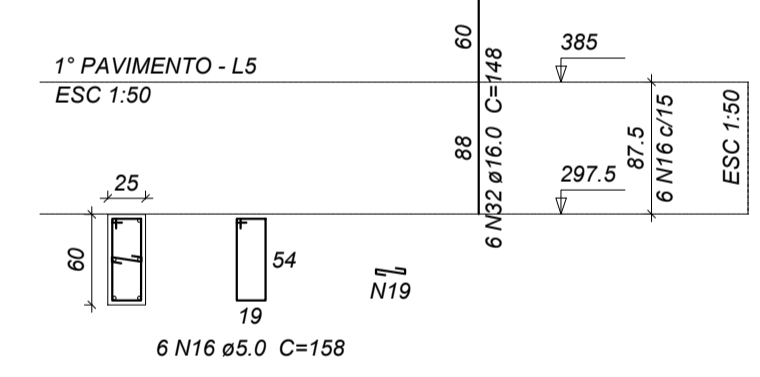
P4



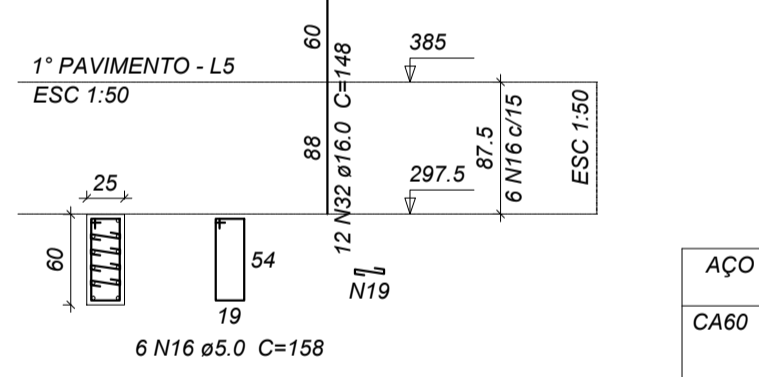
P6=P7=P104



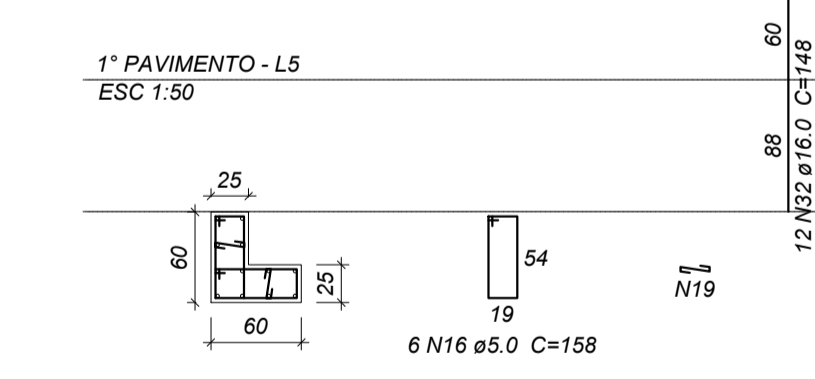
P8=P105



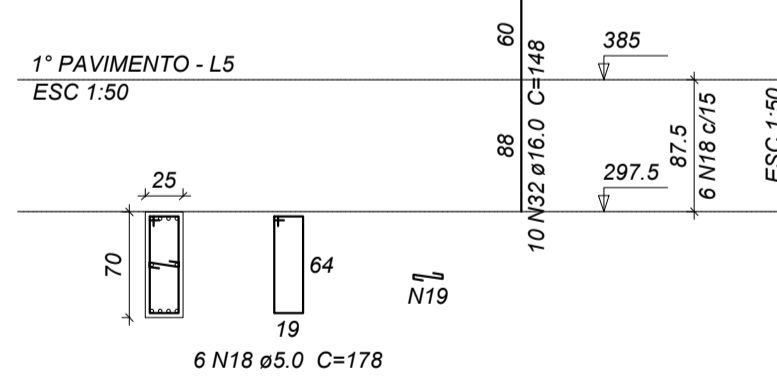
P9=P106



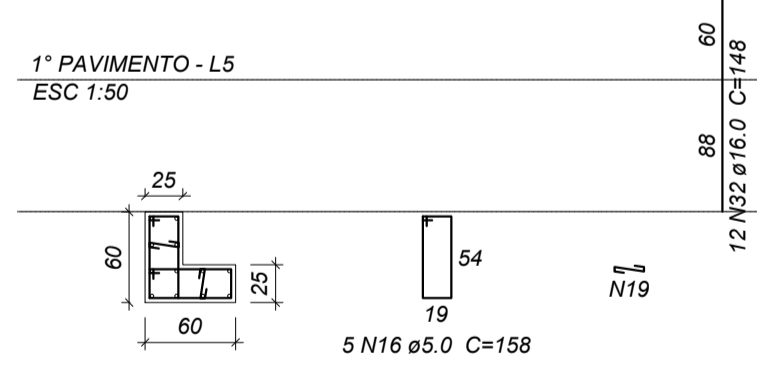
P10=P107



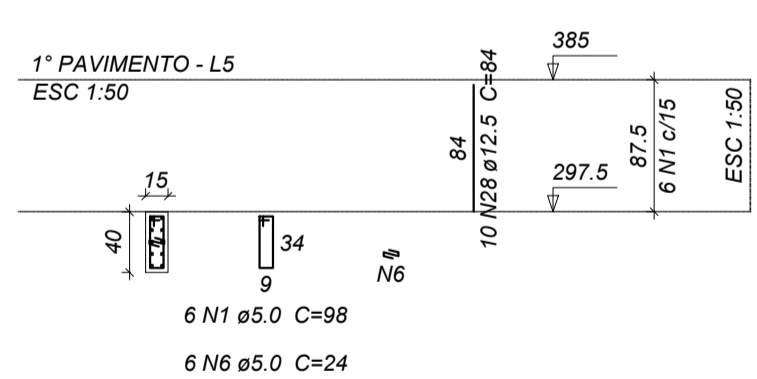
P11=P108



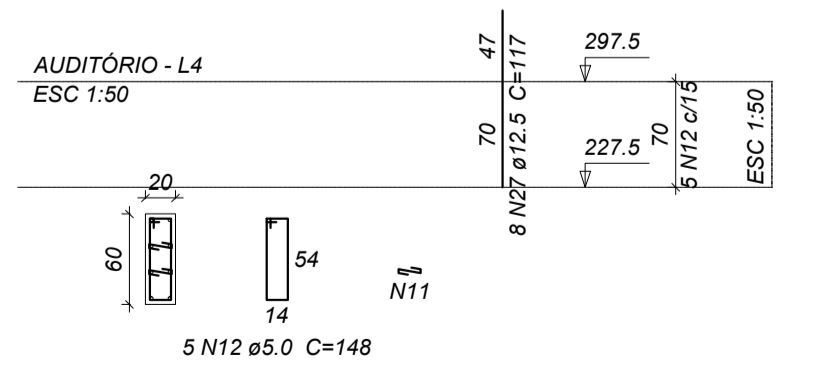
P12=P109



P13



P96



Relação do aço

1º Pavimento:	P1	P3
Auditório:	2xP8	3xP6
	2xP9	P4
	2xP10	2xP8
	2xP12	P13
	2xP39	P40
	5xP42	P48
	2xP49	P50
	3xP51	P53
	P62	P63
	P66	P68
	P77	P82
	P86	P90
	P92	P96
	P97	P98
	2xP100	P103

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	41	98	4018
	2	5.0	36	24	864
	3	5.0	6	88	528
	4	5.0	6	98	588
	5	5.0	42	78	3276
	6	5.0	36	24	864
	7	5.0	20	24	480
	8	5.0	16	128	2048
	9	5.0	6	29	174
	10	5.0	16	118	1888
	11	5.0	40	29	1160
	12	5.0	10	148	1480
CA50	13	5.0	5	138	690
	14	5.0	19	168	3192
	15	5.0	12	28	336
	16	5.0	76	158	12008
	17	5.0	16	34	544
	18	5.0	46	178	8188
	19	5.0	156	34	5304
	20	5.0	10	34	340
	21	5.0	10	29	290
	22	5.0	5	168	840
	23	6.3	8	178	1424
	24	6.3	16	35	560
25	10.0	40	67	2680	
26	10.0	26	108	2808	
27	12.5	96	117	11232	
28	12.5	10	84	840	
29	16.0	48	130	6240	
30	16.0	8	67	536	
31	16.0	10	145	1450	
32	16.0	142	148	21016	

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	6.3	19.9	4.9
	10.0	54.9	33.8
	12.5	120.8	116.3
CA60	16.0	292.5	461.5
	5.0	492	75.8
PESO TOTAL			
CA50	616.5		
CA60	75.8		

Vol. de concreto total (C-25) = 4.52 m³
Área de forma total = 57.17 m²

NOTAS GERAIS

- DIMENSÕES EM CENTÍMETRO. ELEVAÇÕES EM METRO E BITOLAS DOS FERROS EM MILÍMETROS EXCETO INDICAÇÃO CONTRÁRIA.
- TENSÃO PARA O CONCRETO:
CONCRETO ESTRUTURAL fck=25 MPa
CONCRETO MAGRO fck=10 MPa
- AÇO CASO, fyk=5000 kgf/cm²
CA60, fyk=6000 kgf/cm²
- EXECUTAR PASSAGENS PARA TUBULAÇÕES DE ÁGUA, ESGOTO E ELETRICIDADE. NÃO SERÁ PERMITIDO NENHUMA TUBULAÇÃO DENTRO DOS ELEMENTOS ESTRUTURAIS, EXCETO AS PREVISTAS EM PROJETO.
- REALIZAR ENSAIOS DE COMPRESSÃO EM CORPO DE PROVA PARA ASSEGURAR A RESISTÊNCIA FINAL DO CONCRETO.
- DIMENSÃO MÁXIMA DO AGREGADO RECOMENDADA DE 19mm.
- DOSAGEM DO CONCRETO: PARA EVITAR SEGREGAÇÃO, DEVEM SER CONSIDERADAS AS PROPRIEDADES: ESTABILIDADE - EXSUDAÇÃO E SEGREGAÇÃO MOBILIDADE - VISCOSIDADE, COESÃO E ÂNGULO DE ATRITO INTERNO COMPACTIDADE - DENSIDADE NECESSITANDO, PORTANTO, DE UM ESTUDO EM FUNÇÃO DOS MATERIAIS A SEREM UTILIZADOS.
- CURA DO CONCRETO: FUNÇÃO DO TIPO DE CIMENTO UTILIZADO E DA EXPOSIÇÃO AOS INTemperismos. A CURA DEVE SER DE:
7 DIAS PARA CONCRETO COM CIMENTO PORTLAND
10 DIAS PARA CONCRETO COM CIMENTO ALTO FORNO
28 DIAS PARA CONCRETO COM CIMENTO POZOLÂNICO
CONSERVAR ÚMIDAS AS PARTES CONCRETADAS DURANTE O TEMPO DE CURA
- COBRIMENTO MÍNIMO DAS ARMADURAS:
VIGAS e PILARES = 3,0cm
LAJES = 2,5cm
O RECOBRIMENTO DEVERÁ SER GARANTIDO COM O USO DE ESPAÇADORES
- FATOR ÁGUA/CIMENTO DO CONCRETO: AC < 0,60
- CONFRONTAR AS MEDIDAS DO PROJETO ESTRUTURAL COM O PROJETO ARQUITETÔNICO.
- EM CASO DE DÚVIDAS CONSULTAR O CALCULISTA.

RAIO DE CURVATURA DAS BARRAS		CONCRETO ADOTADO	
φ	R (cm)	fck =	25 MPa
12.5	10	fcj=fck+1,65 x	4 MPa 5.5 MPa 7 MPa
16.0	12		
20.0	15		
25.0	19		

DE ACORDO COM O ITEM 8.3.1.2 DA NBR-6118

ATUALIZAÇÃO:

05	04	03	02	01
Nº.	DESCRIÇÃO	RESP.	DATA	

ASSINATURA DO PROPRIETÁRIO DO PROJETO ASSINATURA DO AUTOR DO PROJETO

CARIMBOS P.M.P.B SECRETARIA DE PLANEJAMENTO URBANO E SAÚDE PÚBLICA

OBRA: TEATRO MUNICIPAL NAURA RIGON

ESPECIFICAÇÃO: ESTRUTURAL

ÁREA TOTAL: 17.164,85 m²

ESCALA: Indizada

DATA: 04/03/2019

DESENHO: _____

PROJETO: _____

PROPRIETÁRIO: Município de Pató Branco
CNPJ: 16.995.448/000194

ÁREA TOTAL: 17.164,85 m²

ESCALA: Indizada

DATA: 04/03/2019

DESENHO: _____

PROJETO: _____

PROPRIETÁRIO: Município de Pató Branco
CNPJ: 16.995.448/000194

COORDENADOR: _____

LOCAL: Pató Branco - PB

VERIFICAÇÃO: _____