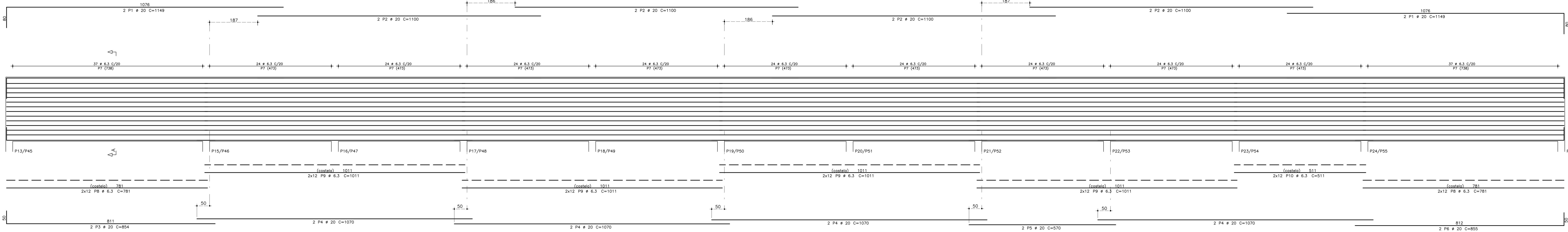
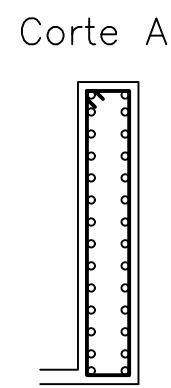


VC1=VC12 14/250

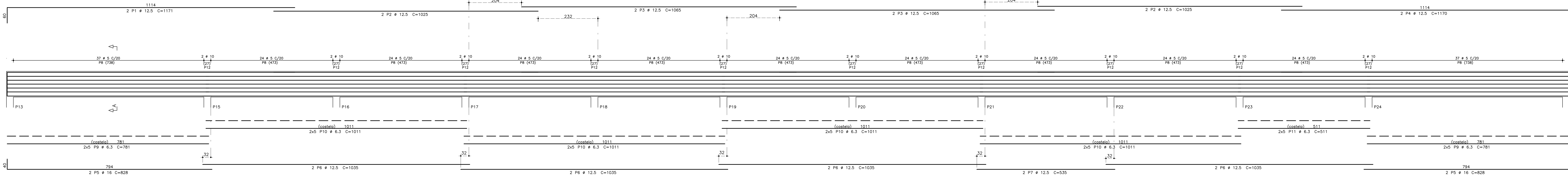


Corte A

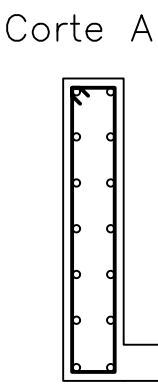


290 P7 # 6.3 C=520

VC2=VC11 14/100

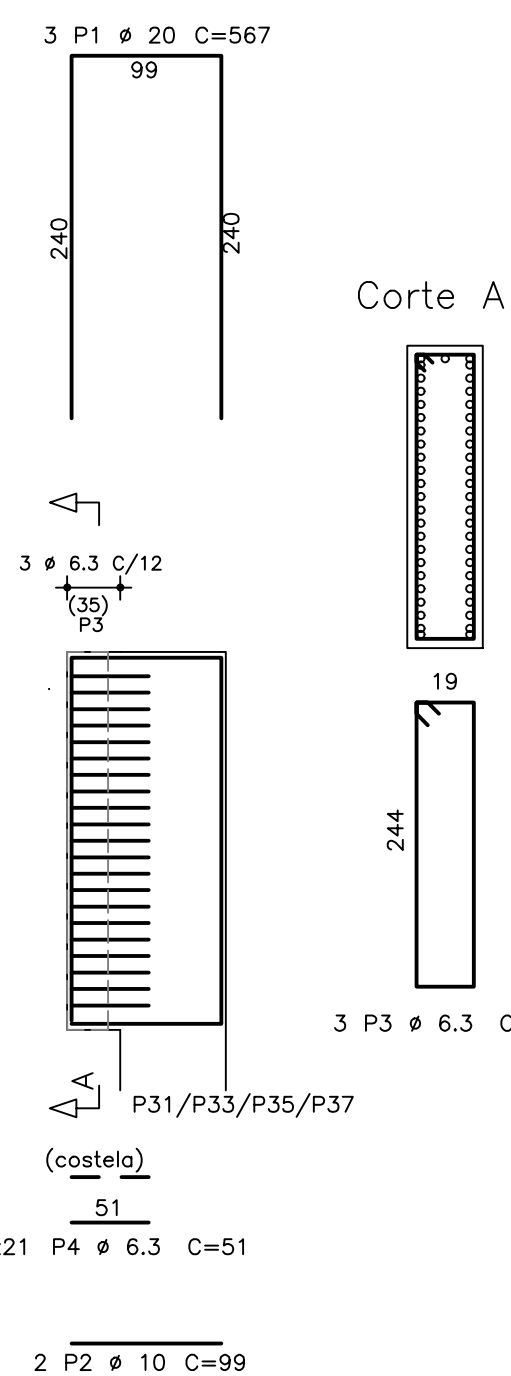


Corte A

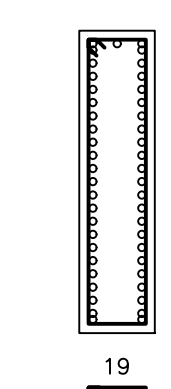


290 P8 # 5 C=216
20 P12 # 10 C=302

VC3=VC5=VC7=VC9 25/250

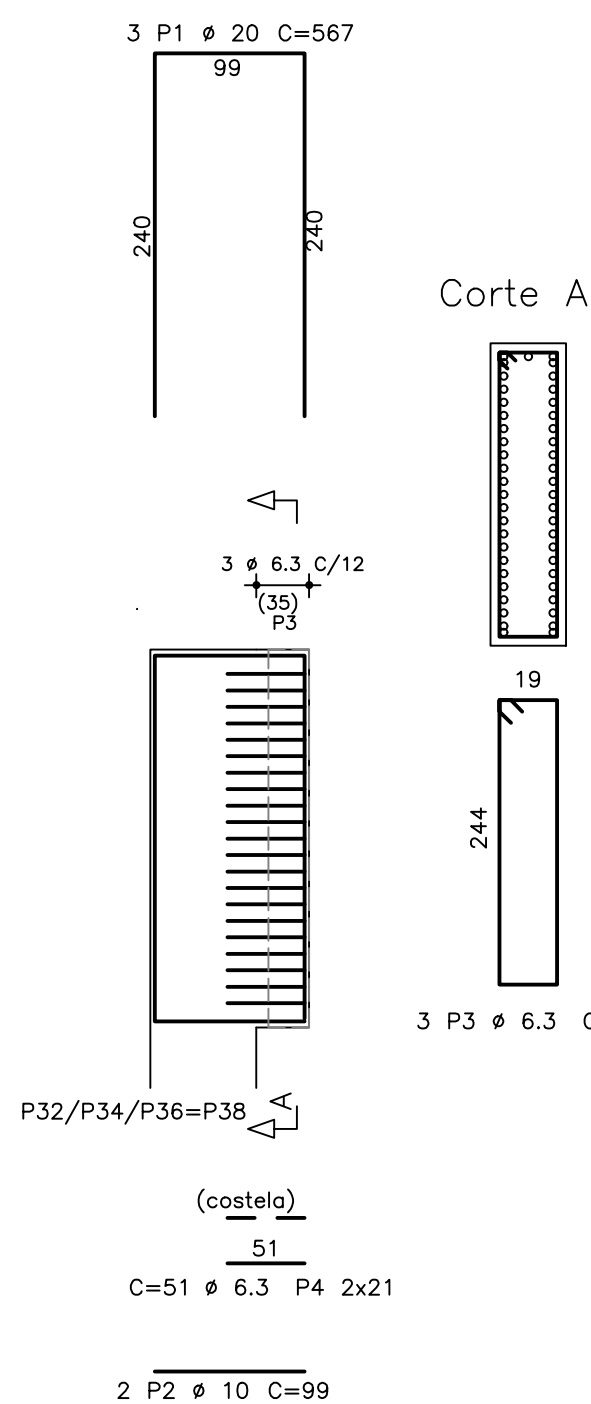


Corte A

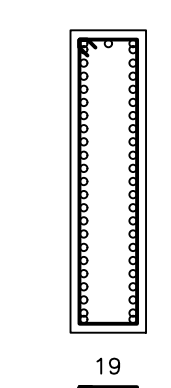


2 P2 # 10 C=99

VC4=VC6=VC8=VC10 25/250



Corte A



2 P2 # 10 C=99

AÇO	POS	BIT	QUANT	COMPRIMENTO	UNIT	TOTAL
(mm)		(mm)		(cm)		(cm)
VC1=VC12	(X2)					
50	1	20	8	1149	9192	4684
50	2	20	16	1100	17600	8200
50	3	20	4	854	3416	8520
50	4	20	16	1070	17120	4680
50	5	20	4	570	2280	6624
50	6	20	4	855	3420	16560
50	7	6.3	580	520	301600	2140
50	8	6.3	96	781	74976	122980
50	9	6.3	192	1011	194112	31240
50	10	6.3	48	511	24528	80880
50	11	6.3	20	511	10220	10220
50	12	10	40	302	12080	12080
VC2=VC11	(X2)					
50	1	12.5	4	1171	4684	4684
50	2	12.5	8	1025	8200	8200
50	3	12.5	8	1065	8520	8520
50	4	12.5	4	1170	4680	4680
50	5	16	8	828	6624	6624
50	6	12.5	16	1035	16560	16560
50	7	12.5	4	535	2140	2140
50	8	5	590	216	122980	122980
50	9	6.3	40	761	31240	31240
50	10	6.3	80	1011	80880	80880
50	11	6.3	20	511	10220	10220
50	12	10	40	302	12080	12080
VC3=VC5=VC7=VC9	(X4)					
50	1	20	12	567	6804	6804
50	2	10	8	99	792	792
50	3	6.3	12	542	6504	6504
50	4	6.3	168	51	8568	8568
VC4=VC6=VC8=VC10	(X4)					
50	1	20	12	567	6804	6804
50	2	10	8	99	792	792
50	3	6.3	12	542	6504	6504
50	4	6.3	168	51	8568	8568

AÇO	BIT	COMPR	PESO
(mm)	(mm)	(cm)	(kg)
60	5	253	200
50	6.3	7477	1869
50	10	137	86
50	12.5	448	448
50	16	66	106
50	20	666	1666
Peso Total	60	=	200 kg
Peso Total	50	=	4175 kg

DETALHE DE DOBRAMENTO DOS FERROS	Ø	RAIO (cm)	DESCONTO(cm)
	10.0	7.5	3.0
	12.5	9.3	4.0
	16.0	12.0	5.0
	20.0	15.0	6.0
	25.0	18.5	8.0

REVISÃO	DESCRIÇÃO	SOLICITADO POR	DATA	RESPONSÁVEL
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TAUFIG ASFURA
CREA 1086 - RJ/7N

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GAMAL ASFURA
CREA 10873 - RJ/7N

Engest

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OBRA

GINÁSIO DE ESPORTES

(PREFEITURA DE LIMOEIRO)

01/2017

RESP. TÉCNICO
GAMAL ASFURA
PROJETO ESTRUCTURAL
DESENHO
AMARO CORTEZ

ACQ
CA- 50 e 60
CONCRETO
fck > 35 MPa
ABRIL/2017
REVISÃO
0

ESSA
1-SO
DATA
ABRIL/2017
REVISÃO
0

P

06/01

COBERTA - ARMAÇÃO DAS VIGAS (PARTE 01/02)