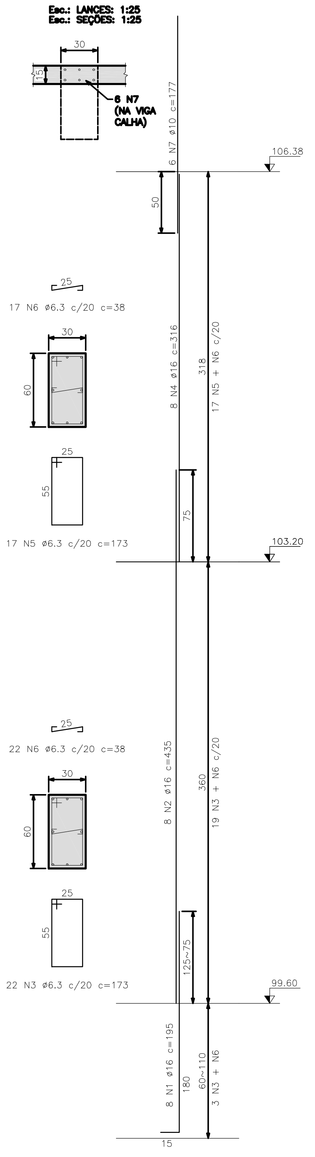
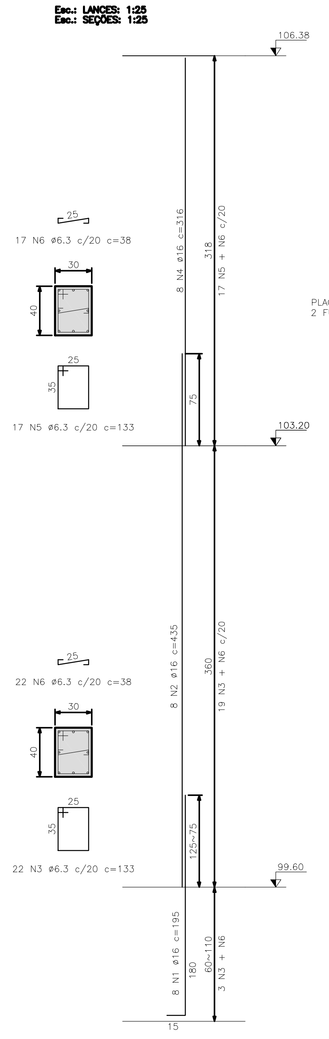
ARM. P57=P58=P59=P60=P61=P62= P75=P76=P77=P78=P79=P80

Esc.: LANCES: 1:25
Esc.: SEÇÕES: 1:25



ARM. P63=P64=P65=P66=P67=P68= P69=P70=P71=P72=P73=P74

Esc.: LANCES: 1:25
Esc.: SEÇÕES: 1:25



DET. DA SPDA VÁLIDO PARA OS PILARES: P57,P59,P60,P62,P69,P74,P75,P77,P78,P80

ESCALA LANCES: 1:25

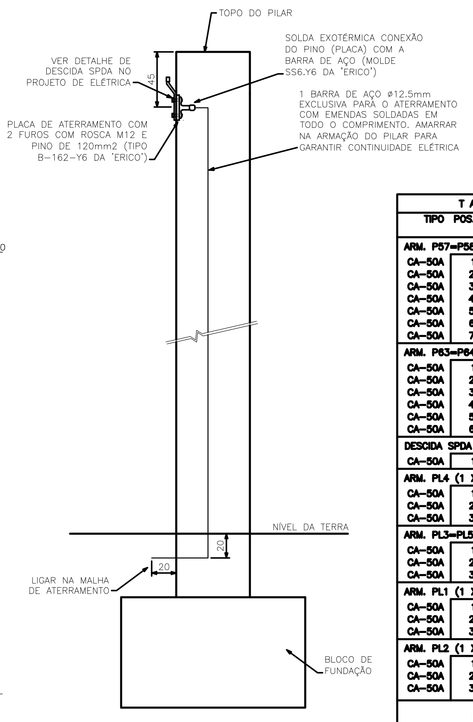
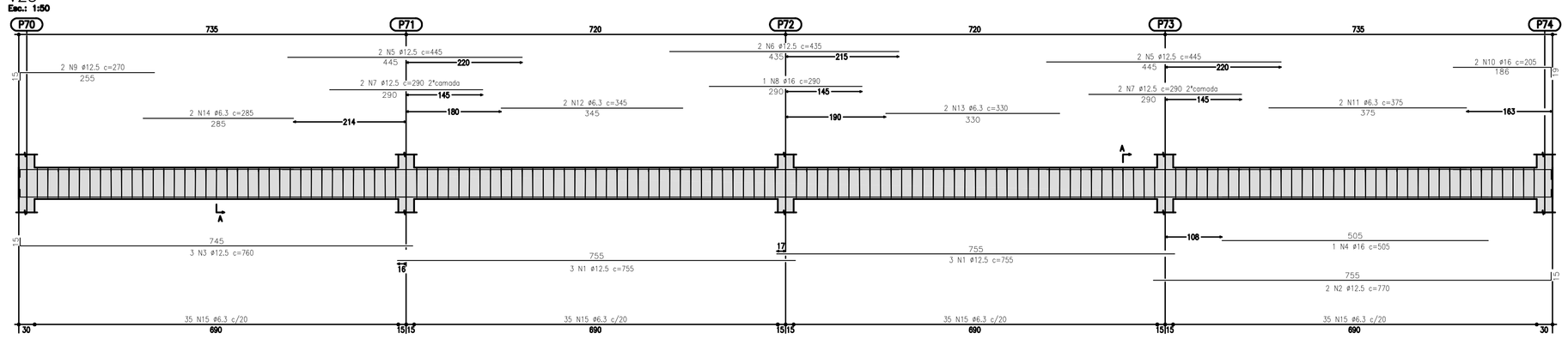


TABELA DE FERROS						
TIPO	POS.	BIT.	QUANT.	Q.Tot.	C.Unt. (cm)	C.Tot. (cm)
ARM. P57=P58=P59=P60=P61=P62= (12 X)						
CA-50A	1	16	8	96	195	18720
CA-50A	2	16	8	96	435	41760
CA-50A	3	6.3	22	264	173	45672
CA-50A	4	16	6	96	316	30336
CA-50A	5	6.3	17	204	173	35292
CA-50A	6	6.3	39	468	38	17784
CA-50A	7	10	6	72	177	12744
ARM. P63=P64=P65=P66=P67=P68= (12 X)						
CA-50A	1	16	8	96	195	18720
CA-50A	2	16	8	96	435	41760
CA-50A	3	6.3	22	264	133	35112
CA-50A	4	16	6	96	316	30336
CA-50A	5	6.3	17	204	133	27132
CA-50A	6	6.3	39	468	38	17784
DESCIDA SPDA (10 X)						
CA-50A	1	12.5	1	10	658	6580
ARM. PL4 (1 X)						
CA-50A	1	12.5	6	6	177	1062
CA-50A	2	12.5	6	6	176	1056
CA-50A	3	6.3	12	12	113	1356
ARM. PL3=PL5 (2 X)						
CA-50A	1	12.5	6	12	177	2124
CA-50A	2	12.5	6	12	197	2364
CA-50A	3	6.3	17	34	113	3842
ARM. PL1 (1 X)						
CA-50A	1	12.5	6	6	177	1062
CA-50A	2	12.5	6	6	358	2148
CA-50A	3	6.3	28	28	113	3164
ARM. PL2 (1 X)						
CA-50A	1	12.5	6	6	177	1062
CA-50A	2	12.5	6	6	317	1902
CA-50A	3	6.3	21	21	113	2373

RESUMO DO AÇO		
PESO CA-50A ø 6.3	1895.11 m	473.78kg
PESO CA-50A ø 10	127.44 m	80.29kg
PESO CA-50A ø 12.5	193.00 m	193.00kg
PESO CA-50A ø 16	1818.32 m	2908.11kg
PESO TOTAL CA-50A		3653.78kg
PESO TOTAL =		3653.78kg
CONCRETO fck 25MPa		

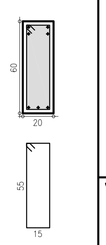
V23

Esc.: 1:50



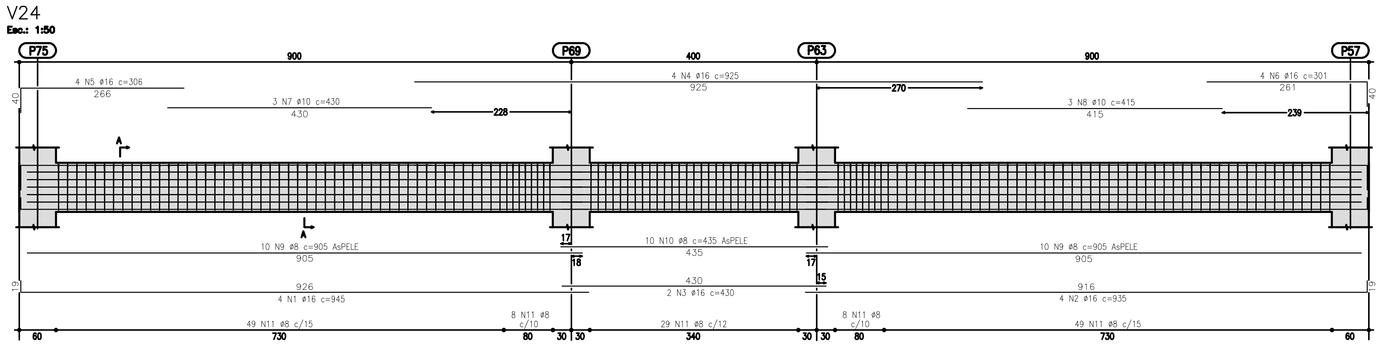
Corte A

Esc.: 1:20



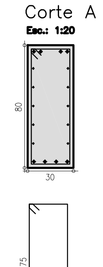
V24

Esc.: 1:50



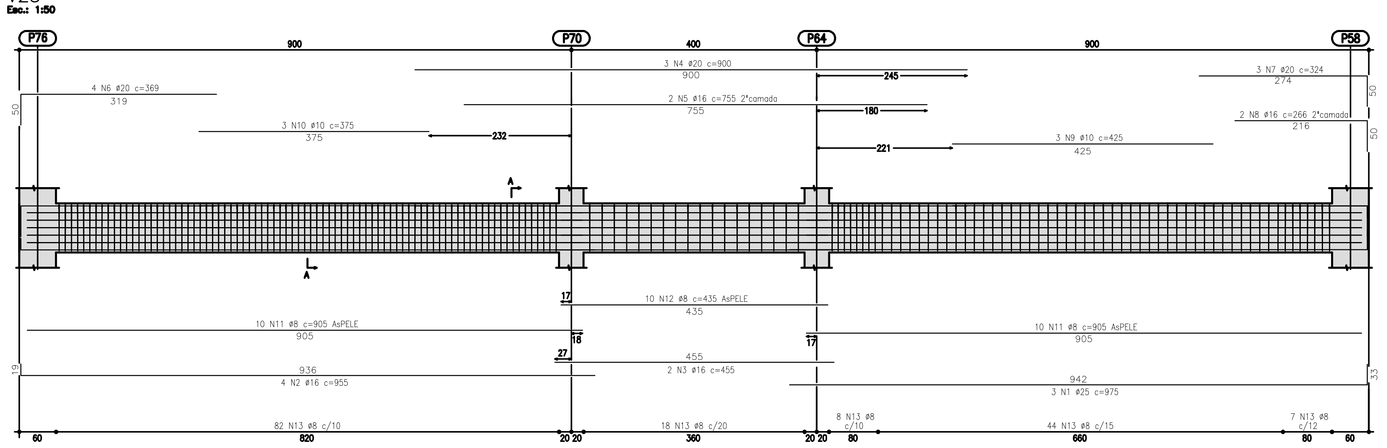
Corte A

Esc.: 1:20



V25

Esc.: 1:50



Corte A

Esc.: 1:20

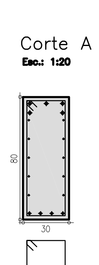
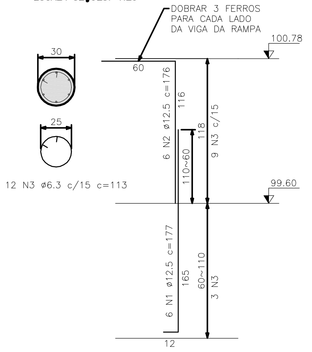


TABELA DE FERROS						
TIPO	POS.	BIT.	QUANT.	Q.Tot.	C.Unt. (cm)	C.Tot. (cm)
V23 (1 X)						
CA-50A	1	12.5	6	6	755	4530
CA-50A	2	12.5	2	2	770	1540
CA-50A	3	12.5	3	3	760	2280
CA-50A	4	16	1	1	505	505
CA-50A	5	12.5	4	4	435	1740
CA-50A	6	12.5	2	2	435	870
CA-50A	7	12.5	4	4	290	1160
CA-50A	8	16	1	1	290	290
CA-50A	9	12.5	2	2	270	540
CA-50A	10	16	2	2	205	410
CA-50A	11	6.3	2	2	375	750
CA-50A	12	6.3	2	2	345	690
CA-50A	13	6.3	2	2	330	660
CA-50A	14	6.3	2	2	285	570
CA-50A	15	6.3	140	140	153	21420
V24 (1 X)						
CA-50A	1	16	4	4	945	3780
CA-50A	2	16	4	4	935	3740
CA-50A	3	16	2	2	430	860
CA-50A	4	16	4	4	925	3700
CA-50A	5	16	4	4	306	1224
CA-50A	6	16	4	4	301	1204
CA-50A	7	10	3	3	430	1290
CA-50A	8	10	3	3	415	1245
CA-50A	9	8	20	20	905	18100
CA-50A	10	8	10	10	435	4350
CA-50A	11	8	143	143	216	30888
V25 (1 X)						
CA-50A	1	25	3	3	975	2925
CA-50A	2	16	4	4	955	3820
CA-50A	3	16	2	2	455	910
CA-50A	4	20	3	3	900	2700
CA-50A	5	16	2	2	755	1510
CA-50A	6	20	4	4	369	1476
CA-50A	7	20	3	3	972	2916
CA-50A	8	16	2	2	266	532
CA-50A	9	10	3	3	425	1275
CA-50A	10	10	3	3	375	1125
CA-50A	11	8	20	20	905	18100
CA-50A	12	8	10	10	435	4350
CA-50A	13	8	159	159	216	34344
V27 (1 X)						
CA-50A	1	16	4	4	945	3780
CA-50A	2	16	2	2	935	1870
CA-50A	3	16	2	2	430	860
CA-50A	4	16	2	2	850	1700
CA-50A	5	12.5	4	4	370	1480
CA-50A	6	16	2	2	295	590
CA-50A	7	16	3	3	291	873
CA-50A	8	10	3	3	440	1320
CA-50A	9	10	2	2	420	840
CA-50A	10	8	20	20	905	18100
CA-50A	11	8	10	10	435	4350
CA-50A	12	8	123	216	216	28568
VR1 (1 X)						
CA-50A	1	12.5	2	2	1191	2382
CA-50A	2	12.5	2	2	1200	2400
CA-50A	4	6.3	16	16	1067	17072
CA-50A	5	16	2	2	1074	2148
CA-50A	6	6.3	16	16	1065	17040
CA-50A	7	16	2	2	1188	2376
CA-50A	8	6.3	100	100	289	28900
CA-50A	9	6.3	100	100	28	2800
ARM. REFORÇO NA BORDA DA LAJE (6x)						
CA-50A	1	10	3	18	774	13932
CA-50A	2	10	3	18	530	9540
CA-50A	3	8	6	36	205	7380
ARM. REFORÇO ALVENARIAS INTERNAS NA LAJE (6x)						
CA-50A	1	12.5	4	24	776	18624
CA-50A	2	16	6	36	215	7740
V26 (3x)						
CA-50A	1	25	3	9	975	8775
CA-50A	2	16	2	6	480	2880
CA-50A	3	20	3	9	727	6543
CA-50A	4	20	2	6	460	2760
CA-50A	5	20	4	12	304	3648
CA-50A	6	12.5	2	6	430	2580
CA-50A	7	8	10	30	915	27450
CA-50A	8	8	10	30	435	13050
CA-50A	9	8	76	228	216	49248

RESUMO DO AÇO		
PESO CA-50A ø 6.3	897.02 m	224.26kg
PESO CA-50A ø 8	2562.78 m	1025.11kg
PESO CA-50A ø 10	305.67 m	192.57kg
PESO CA-50A ø 12.5	401.66 m	401.66kg
PESO CA-50A ø 16	473.02 m	756.83kg
PESO CA-50A ø 20	180.99 m	452.48kg
PESO CA-50A ø 25	117.00 m	585.00kg
PESO TOTAL CA-50A		3637.91kg
PESO TOTAL =		3637.91kg
CONCRETO fck 25MPa		

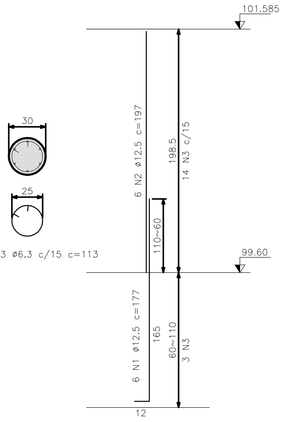
ARM. PL4

ESCALA LANCES: 1:25
ESCALA SEÇÕES: 1:25



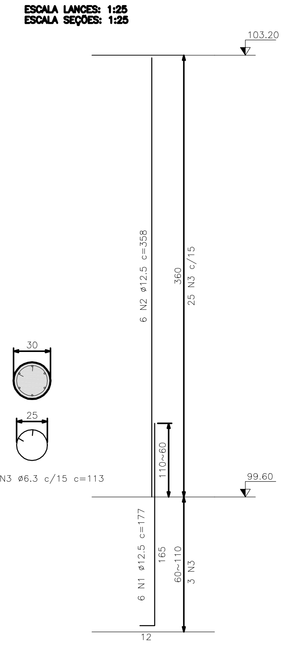
ARM. PL3=PL5

ESCALA LANCES: 1:25
ESCALA SEÇÕES: 1:25



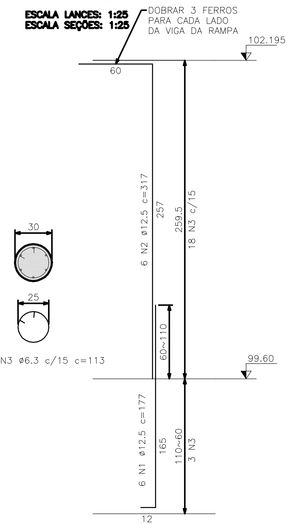
ARM. PL1

ESCALA LANCES: 1:25
ESCALA SEÇÕES: 1:25



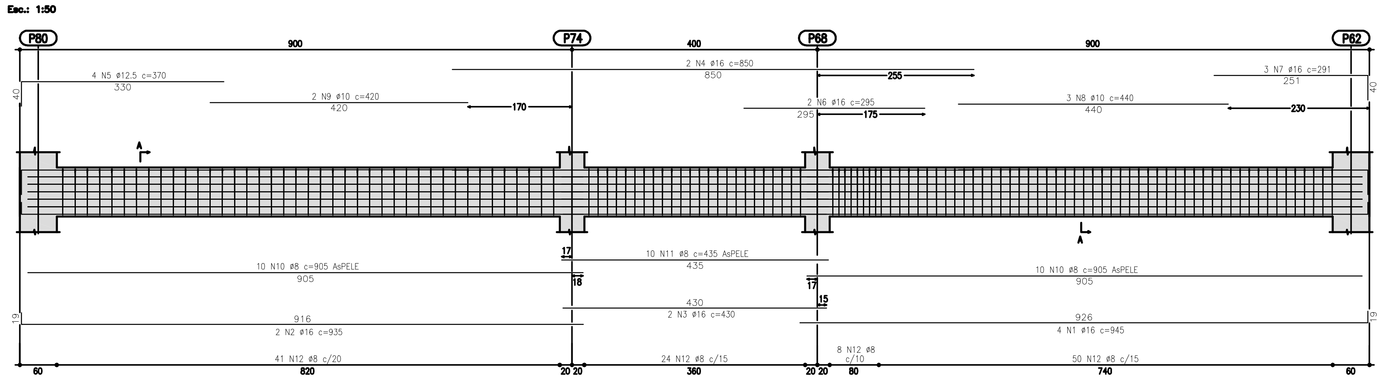
ARM. PL2

ESCALA LANCES: 1:25
ESCALA SEÇÕES: 1:25



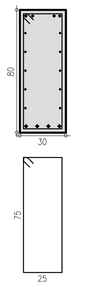
V27

Esc.: 1:50



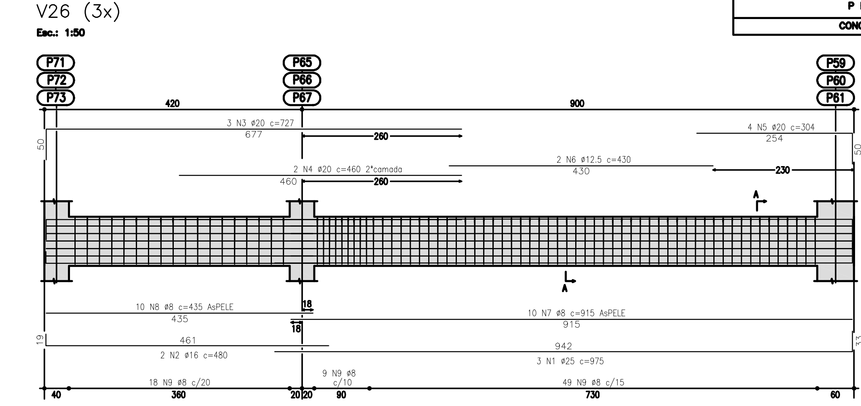
Corte A

Esc.: 1:20



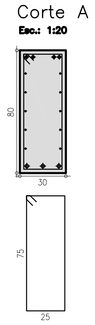
V26 (3x)

Esc.: 1:50



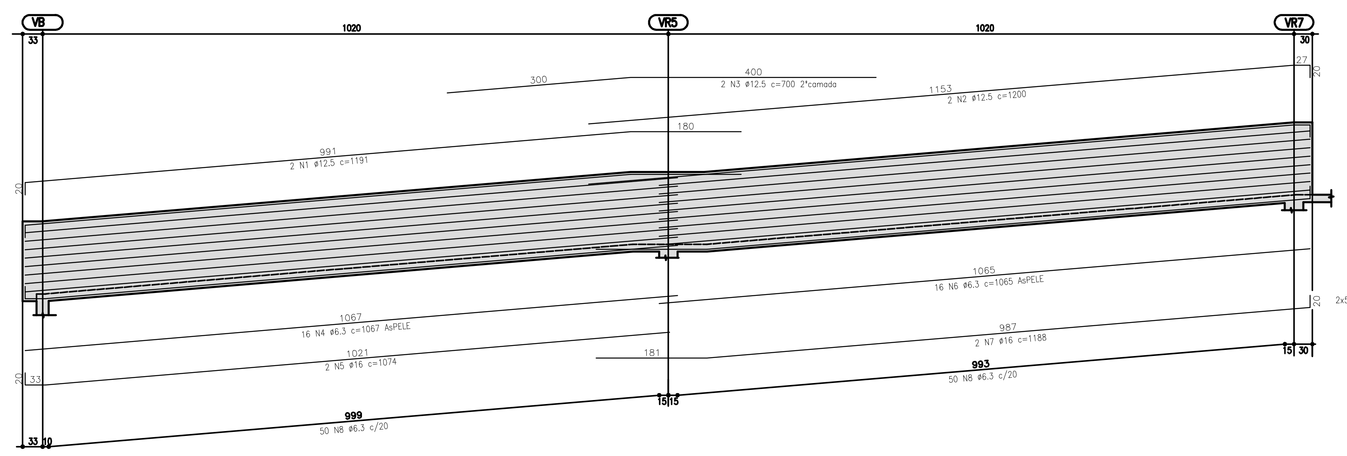
Corte A

Esc.: 1:20



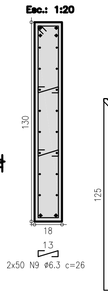
VR1

Escala 1:50



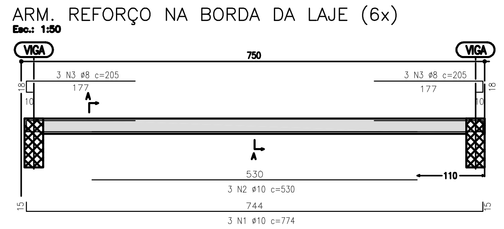
Corte A

Esc.: 1:20



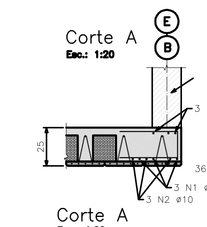
ARM. REFORÇO NA BORDA DA LAJE (6x)

Esc.: 1:50



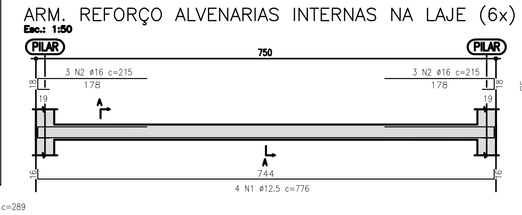
Corte A

Esc.: 1:20



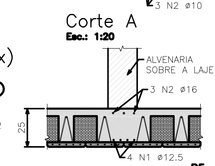
ARM. REFORÇO ALVENARIAS INTERNAS NA LAJE (6x)

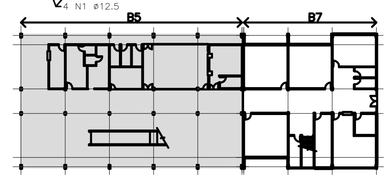
Esc.: 1:50



Corte A

Esc.: 1:20





OPÇÃO SAPATAS (ISOLADO - ACOPLADO)

REFERENCIA DE NIVEL - O NÍVEL 100,00 DO PROJETO PADRÃO REFERE-SE AO NIVEL 103,00, CONFORME PROJETO DE IMPLANTAÇÃO DE ARQUITETURA.

12.01.055 - PAD.PEROBAL 8 SALAS - SECRETARIA NO TÉRREO

- VER PARECER TÉCNICO DE FUNDAÇÕES PT191-13-TT9525, ELABORADO PELA EMPRESA DE ZF & ENGENHEIROS ASSOCIADOS S/S.

NOTA – EMENDA POR TRASPASSE PARA PILARES: 75cm PARA ø16mm E 60mm PARA ø12.5.

NOTAS:
1– MEDIDAS EM CENTIMETROS, NIVEIS EM METROS.
2– CONCRETO fck 25MPa PARA CONCRETO CONVENCIONAL.
3– CONSUMO MÍNIMO DE CIMENTO 350kgf/m3 PARA CONCRETO PREPARADO EM OBRA, 300kgf/m3 PARA CONCRETO USINADO; FATOR AGUA/CIMENTO <0,45.
4– COBRIMENTO DA ARMADURA = 2,5cm.

Nº	MODIFICAÇÕES	RESPONS.	DATA
1		AUTOR DO PROJETO	10/09/2014
0		RESPONS.	DATA
		AUTOR DO PROJETO	
		RESPONS.	DATA
		FDE	

OBSERVAÇÕES

DESENHOS DE REFERÊNCIA

Nº	ARQUIVO	DATA

OFICINA DE ARQUITETURA E ESTRUTURA

ARQ. LÉDA BRANDÃO DE OLIVEIRA
ENG. SÉRGIO JOSÉ B DE OLIVEIRA

R. PADRE MACHADO, 455 SL.86 - 04127-000 - SÃO PAULO TEL. 5506 1559 - FAX 5506 7989 - DFS@OFICINAARQUITETURA.COM.BR

responsável técnico: eng. Sérgio J B Oliveira
CREA: 060043858-2

RESPONSÁVEL PELA IMPLANTAÇÃO DO PROJETO:

apiacás arquitetos
ARQUITETOS | ANDERSON FREITAS, PEDRO BARROS, ACACIA FURLYA
R. GENERAL JARDIM 482 CJ.52 VILA BURQUE CEP 01223-010 SÃO PAULO
apiacas@apiacasarquitetos.com.br

RESPONSÁVEL TÉCNICO:
PEDRO AMANDO DE BARROS – CAU Nº A93385-0

FDE FUNDAÇÃO PARA O DESENVOLVIMENTO DA EDUCAÇÃO

FUNDAÇÃO PARA O DESENVOLVIMENTO DA EDUCAÇÃO - FDE	
ESCOLA – NOME/LOCAL: TERRENO DISTRITO CAMPOS DE HOLAMBRA – PARANAPANEMA/SP	CÓDIGO: 1 2 0 1 4 7 1 4
INTERVENÇÃO: OBRA NOVA DE 08 SALAS DE AULA E 04 SALAS AMBIENTES	No. INTERVENÇÃO: 01
ENG. RESPONS.: PROJETO EXECUTIVO DE ESTRUTURA	ENG. RESPONS.: PAD. PEROBAL / DATA: DEZ/2014 / No. FOLHA: PE-EST
CONTEÚDO: ARMAÇÃO DOS PILARES E VIGAS DO 1º PAVIMENTO (1ª PARTE)	ESCALA: INDICADA / FOLHA: 10 / REVISÃO: 00

1201474_03EPE001000_01