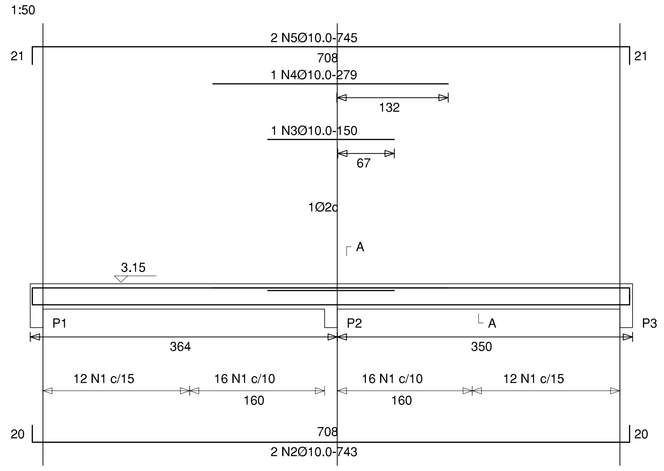
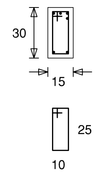
V31

1:50



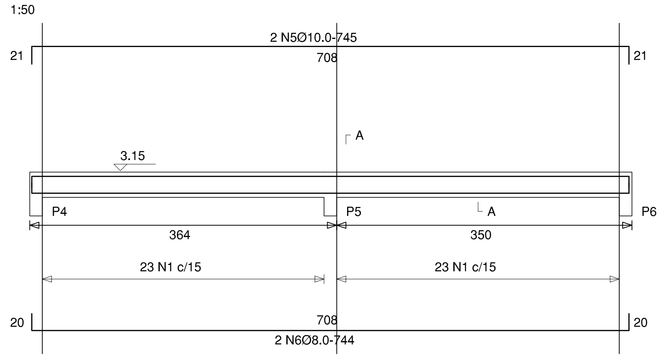
SECAO A-A
ESC 1:25



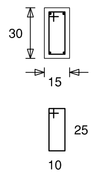
56 N1Ø5.0-80

V32

1:50



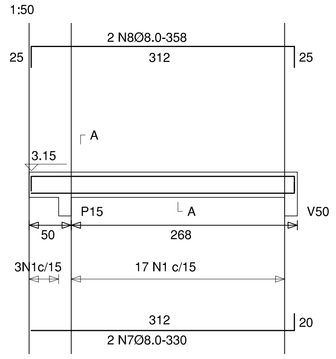
SECAO A-A
ESC 1:25



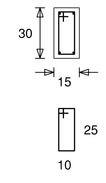
46 N1Ø5.0-80

V33

1:50



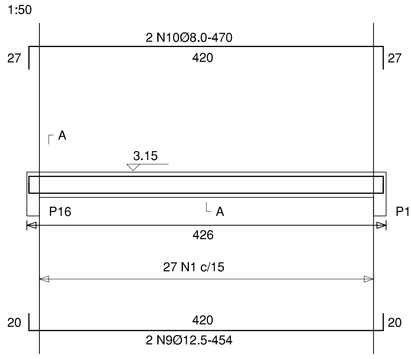
SECAO A-A
ESC 1:25



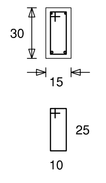
20 N1Ø5.0-80

V34

1:50



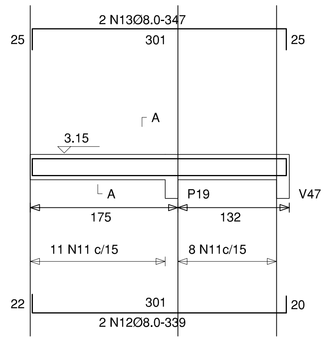
SECAO A-A
ESC 1:25



27 N1Ø5.0-80

V35

1:50



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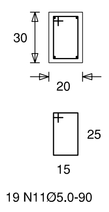
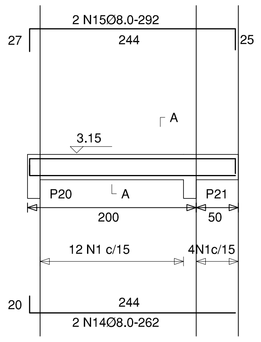
ESC 1:25



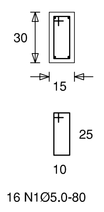
19 N11Ø5.0-90

V36

1:50



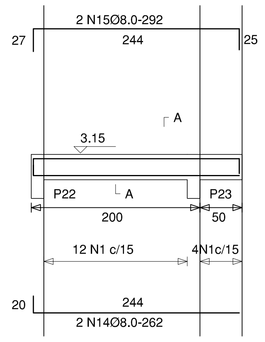
SECAO A-A
ESC 1:25



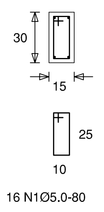
16 N1Ø5.0-80

V37

1:50



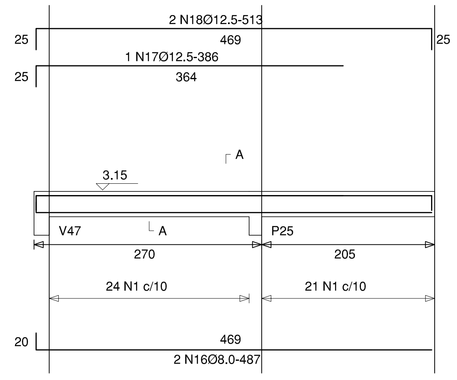
SECAO A-A
ESC 1:25



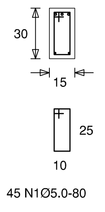
16 N1Ø5.0-80

V38

1:50



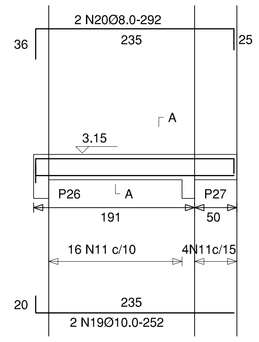
SECAO A-A
ESC 1:25



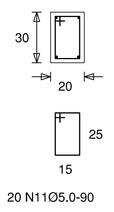
45 N1Ø5.0-80

V39

1:50



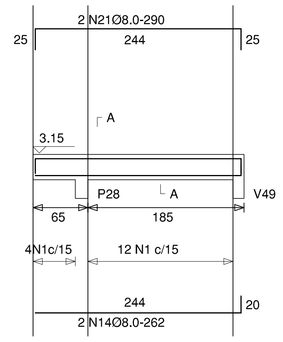
SECAO A-A
ESC 1:25



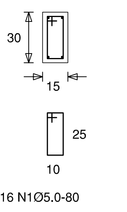
20 N11Ø5.0-90

V40

1:50



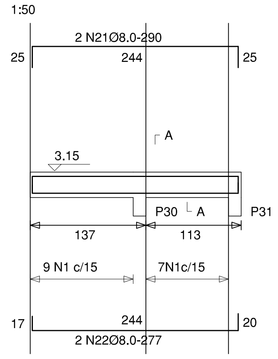
SECAO A-A
ESC 1:25



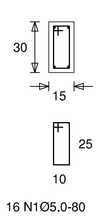
16 N1Ø5.0-80

V41

1:50



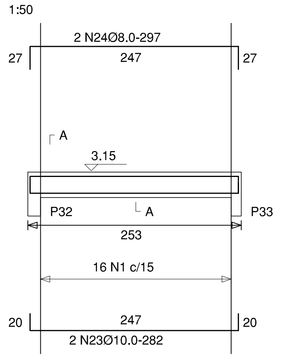
SECAO A-A
ESC 1:25



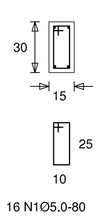
16 N1Ø5.0-80

V42

1:50



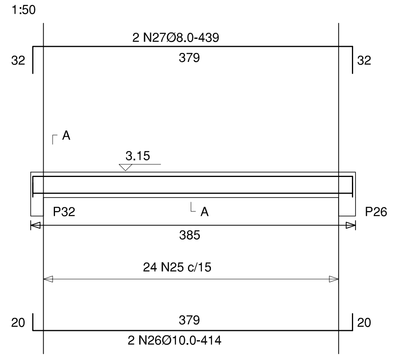
SECAO A-A
ESC 1:25



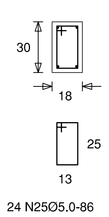
16 N1Ø5.0-80

V43

1:50



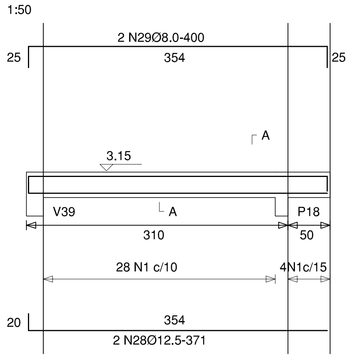
SECAO A-A
ESC 1:25



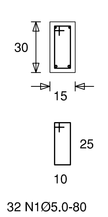
24 N25Ø5.0-86

V44

1:50



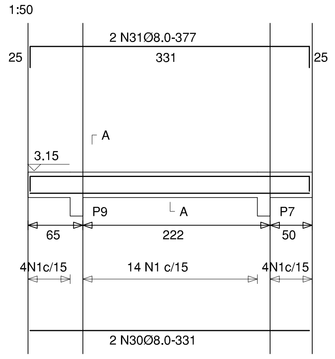
SECAO A-A
ESC 1:25



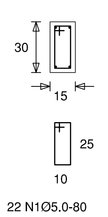
32 N1Ø5.0-80

V45

1:50



SECAO A-A
ESC 1:25



22 N1Ø5.0-80

RELACAO DO ACO

V31	V32	V33
V34	V35	V36
V37	V38	V39
V40	V41	V42
V43	V44	V45

ACO	N	DIAM.	Q.	UNIT (cm)	C. TOTAL (cm)
50A	6	8.0	2	744	1488
	7	8.0	2	330	660
	8	8.0	2	358	716
	10	8.0	2	470	940
	12	8.0	2	339	678
	13	8.0	2	347	694
	14	8.0	6	262	1572
	15	8.0	4	292	1168
	16	8.0	2	487	974
	20	8.0	2	292	584
	21	8.0	4	290	1160
	22	8.0	2	277	554
	24	8.0	2	297	594
	27	8.0	2	439	878
	29	8.0	2	400	800
	30	8.0	2	331	662
	31	8.0	2	377	754
	2	10.0	2	743	1486
	3	10.0	1	150	150
	4	10.0	1	279	279
	5	10.0	4	745	2980
	19	10.0	2	252	504
	23	10.0	2	282	564
	26	10.0	2	414	828
	9	12.5	2	454	908
	17	12.5	1	386	386
	18	12.5	2	513	1026
	28	12.5	2	371	742
60	1	5.0	328	80	26240
	11	5.0	39	90	3510
	25	5.0	24	86	2064

RESUMO DO ACO

ACO	DIAM.	C. TOTAL (m)	PESO+ 0% (kgf)
CA50A	8.0	148.7	58
CA50A	10.0	67.9	43
CA50A	12.5	30.6	30
CA60	5.0	318.1	50

PESO TOTAL	
CA50A	131 kgf
CA60	50 kgf

Vol. concreto total = 3.00 m3
Area de forma total = 42.00 m2

OBS: A ESTRUTURA NOVA DEVERÁ ESTAR DILATADA, NO MÍNIMO 2,0 cm, DA ESTRUTURA EXISTENTE.

CLASSIFICAÇÃO QUANTO A AGRESSIVIDADE AMBIENTAL
(SEGUNDO NBR 6118/2003)

TIPO DE AMBIENTE	AGRESSIVIDADE	RISCO DE DETERIORAÇÃO
URBANA	MODERADA	PEQUENO

CLASSE DE AGRESSIVIDADE	CONCRETO MINIMO	COBRIMENTO MINIMO
II	25 MPa	2,5 cm

NOTAS:

01	conferir as medidas in loco.
02	todas as cotas estão em centímetros.
03	as medidas in loco prevalecem sobre as do projeto.
04	as medidas referem-se às dimensões acabadas.
05	caberão a necessidade de realizar alterações e/ou ajustes durante a obra, deverá haver anuência prévia da fiscalização.
06	todas as alterações processadas em obra deverão ser registradas para efeito de "As Built" e repassadas aos projetistas.
07	em caso de substituição de materiais pelo critério da similaridade, deverá haver autorização prévia da fiscalização.

ESPAÇO RESERVADO P/ OS CARIMBOS DE APROVAÇÃO: PMJ, BOMBEIROS, VIGILÂNCIA SANITÁRIA E FUNDEMA.

Assinatura Proprietário	Assinatura Autor Projeto	Responsável Execução
Secretário Municipal da Saúde	ENG. RODRIGO HARTMANN DOBNER CREA: 101952-5/ SC	

PREFEITURA MUNICIPAL DE JOINVILLE
Secretaria da Saúde
Rua Araranguá, 397 - Bairro América - Joinville SC

Helpcon — Construções Projetos Serviços

Terceirizada: HELPCON
Helpcon Construções Projetos Serviços Ltda.
Rua Conselheiro Lafayete, 190
89.200-000 Joinville - SC
Fone: (047) 3028-6002

Tipo: **PROJETO ESTRUTURAL**

Nome da Obra e Endereço: **UBS JARDIM PARAISO**
Av. Jupiter - Bairro Jardim Paraiso - Joinville SC

Requerente: **FUNDO MUNICIPAL DE SAÚDE**

Proprietário: **PREFEITURA MUNICIPAL DE JOINVILLE**

Autor: **ENG. RODRIGO HARTMANN DOBNER**
CREA: 101952-5/ SC

Conteúdo:
NIVEL +3,15
ARMADURA DAS VIGAS F01-02

Revisado por:	Desenhista CAD:	Data:	Classificação:	Arq. PLT:	Escala:
	NATASCHA	Dezembro/2011		Arq.CAD:	Indicada

Num. Prancha: **ES 06/08**