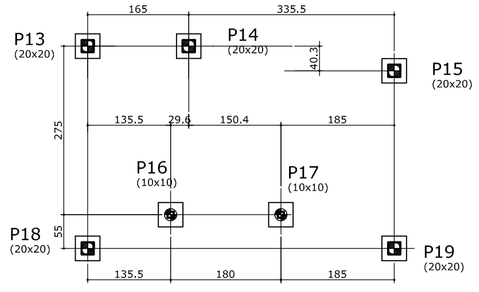
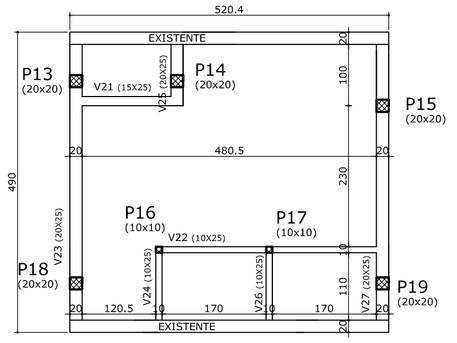
COMPRESSORES - LOCAÇÃO DE PILARES E ESTACAS
ESCALA 1:50

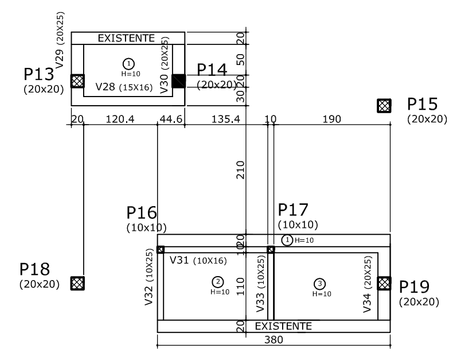


7 ESTACAS A TRADO Ø 20,0 cm E COMPRIMENTO DE 3,00m

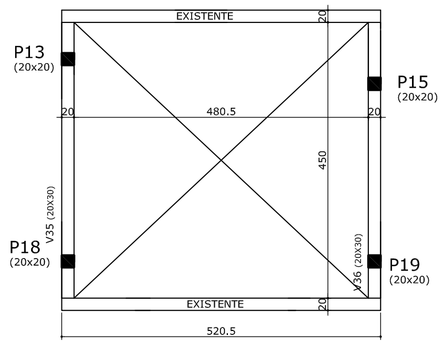
COMPRESSORES - NÍVEL +0,25 - FORMAS
ESCALA 1:50



COMPRESSORES - NÍVEL +1,55 - FORMAS
ESCALA 1:50

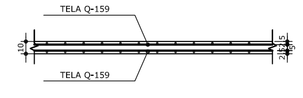


COMPRESSORES - NÍVEL +3,20 - FORMAS
ESCALA 1:50



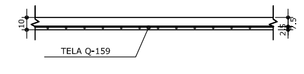
Ⓛ AS LAJES L1, L2 E L3 SÃO MACIÇAS COM ALTURA DE 10 cm.

ARMADURA DAS LAJES L2 E L3- NÍVEL +1,55 - FORMAS
ESCALA 1:25



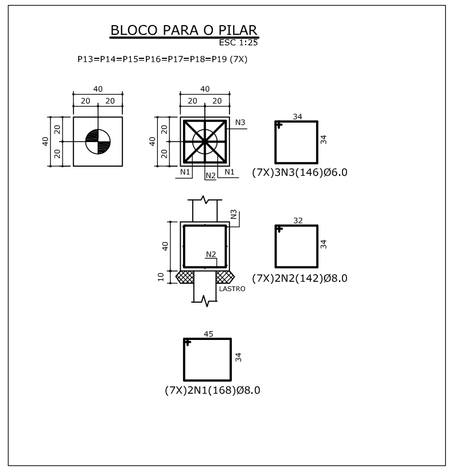
ARMADURA DA LAJE: TELA SOLDADA NERVURADA TIPO Q-159 NA FACE SUPERIOR E INFERIOR DA LAJE ADOTANDO UM COBRIMENTO DE 2,5 cm.

ARMADURA DA LAJE L1 - NÍVEL +1,55 - FORMAS
ESCALA 1:25

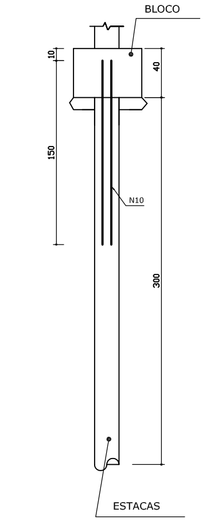


ARMADURA DA LAJE: TELA SOLDADA NERVURADA TIPO Q-159 NA FACE INFERIOR DA LAJE ADOTANDO UM COBRIMENTO DE 2,5 cm.

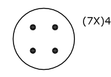
BLOCO PARA O PILAR
ESC 1:25



DET .ARMADURA DAS ESTACAS
ESC 1:25



ARMADURA DAS ESTACAS
(7X) ESC 1:10



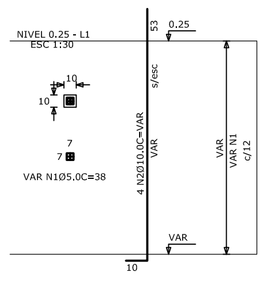
ARMADURA DOS BLOCOS E ESTACAS

TABELA DE ARMADURAS			
N	Ø	QUANT.	COMP. UNIT.
1	8.0	14	168
2	8.0	14	142
3	6.0	21	146
10	8.0	28	150

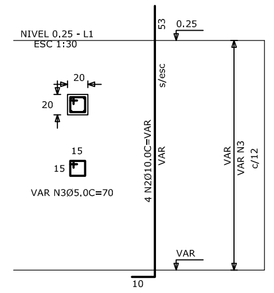
RESUMO DO AÇO		
	DIAM.	PESO
CA-60	5.0	-
	6.0	6
CA-50	6.3	-
	8.0	34
	10.0	-
	12.5	-
	16.0	-
	20.0	-
	25.0	-
TOTAL		40

VOLUME DE CONCRETO 1,50 m3
ÁREA DE FORMAS 5,00 m2

P16=P17
NIVEL 0.25 - L1 ESC 1:30



P13=P14=P15=P18=P19
NIVEL 0.25 - L1 ESC 1:30



RELACAO DO ACO

2xP16-L1 5xP13-L1

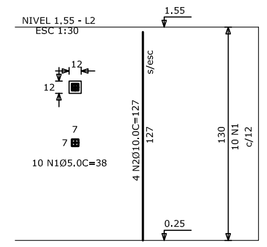
ACO	N	DIAM.	Q.	UNIT (cm)	C. TOTAL (cm)
50A	2	10.0	28	var	4564
60	1	5.0	var	38	608
	3	5.0	var	70	2800

RESUMO DO ACO

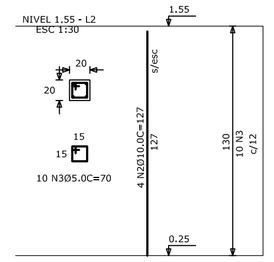
ACO	DIAM.	C. TOTAL (m)	PESO+ 0% (kgf)
CA50A	10.0	45.6	29
CA60	5.0	34.0	5
PESO TOTAL			
CA50A	29 kgf		
CA60	5 kgf		

Vol. concreto total = 0.50 m3
Area de forma total = 5.00 m2

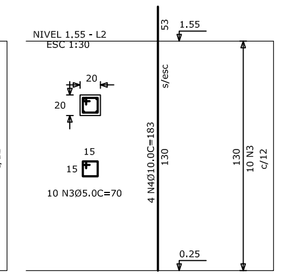
P16=P17
NIVEL 1.55 - L2 ESC 1:30



P14
NIVEL 1.55 - L2 ESC 1:30



P13=P19
NIVEL 1.55 - L2 ESC 1:30



RELACAO DO ACO

2xP16-L2 P14-L2 2xP13-L2

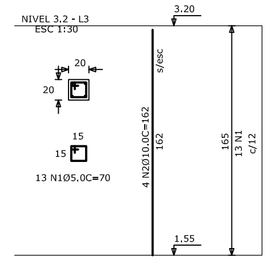
ACO	N	DIAM.	Q.	UNIT (cm)	C. TOTAL (cm)
50A	2	10.0	12	127	1524
	4	10.0	8	183	1464
60	1	5.0	20	38	760
	3	5.0	30	70	2100

RESUMO DO ACO

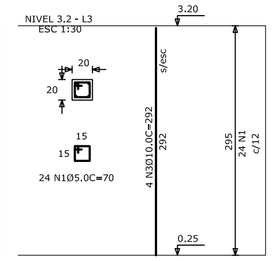
ACO	DIAM.	C. TOTAL (m)	PESO+ 0% (kgf)
CA50A	10.0	29.8	19
CA60	5.0	28.6	4
PESO TOTAL			
CA50A	19 kgf		
CA60	4 kgf		

Vol. concreto total = 0.50 m3
Area de forma total = 4.50 m2

P13=P19
NIVEL 3.2 - L3 ESC 1:30



P15=P18
NIVEL 3.2 - L3 ESC 1:30



RELACAO DO ACO

2xP13-L3 2xP15-L3

ACO	N	DIAM.	Q.	UNIT (cm)	C. TOTAL (cm)
50A	2	10.0	8	162	1296
	3	10.0	8	292	2336
60	1	5.0	74	70	5180

RESUMO DO ACO

ACO	DIAM.	C. TOTAL (m)	PESO+ 0% (kgf)
CA50A	10.0	36.3	23
CA60	5.0	51.8	8
PESO TOTAL			
CA50A	23 kgf		
CA60	8 kgf		

Vol. concreto total = 0.50 m3
Area de forma total = 7.50 m2

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

V21
1:50

SECAO A-A ESC 1:25

V22
1:50

SECAO A-A ESC 1:25

V23
1:50

SECAO A-A ESC 1:25

V24
1:50

SECAO A-A ESC 1:25

V25
1:50

SECAO A-A ESC 1:25

V26
1:50

SECAO A-A ESC 1:25

RELACAO DO ACO

V21 V22 V23
V24 V25 V26
V27

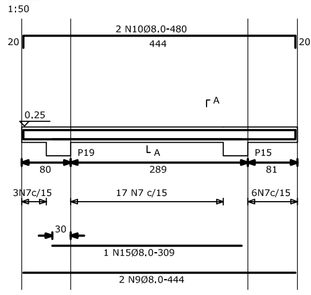
ACO	N	DIAM.	Q.	UNIT (cm)	C. TOTAL (cm)
50A	2	6.3	2	212	424
	5	6.3	2	407	814
	11	6.3	4	412	824
	12	6.3	4	143	572
	8	8.0	2	350	700
	9	8.0	4	444	1776
	10	8.0	4	480	1920
	13	8.0	2	94	188
	14	8.0	2	130	260
	1	5.0	1	309	309
	3	5.0	10	70	700
	4	5.0	2	179	358
	7	5.0	40	60	2400
60		5.0	67	80	5360

RESUMO DO ACO

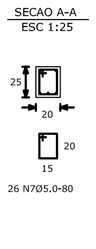
ACO	DIAM.	C. TOTAL (m)	PESO+ 0% (kgf)
CA50A	6.3	32.4	8
CA50A	8.0	81.5	20
CA60	5.0	88.1	14
PESO TOTAL			
CA50A	28 kgf		
CA60	14 kgf		

Vol. concreto total = 1.00 m3
Area de forma total = 12.00 m2

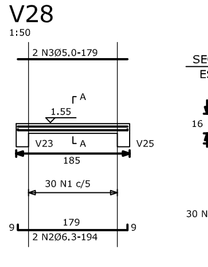
V27
1:50



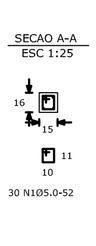
SECAO A-A ESC 1:25



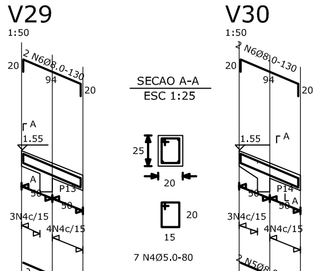
V28
1:50



SECAO A-A ESC 1:25

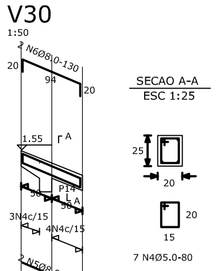


V29
1:50

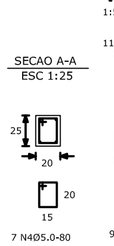


SECAO A-A ESC 1:25

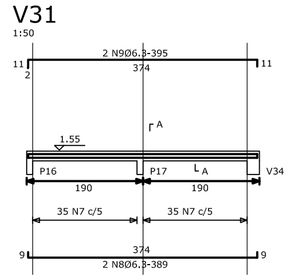
V30
1:50



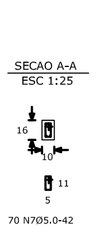
SECAO A-A ESC 1:25



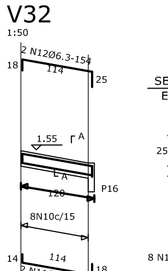
V31
1:50



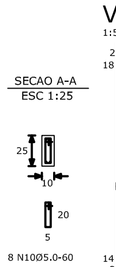
SECAO A-A ESC 1:25



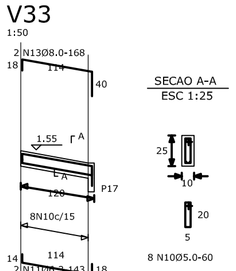
V32
1:50



SECAO A-A ESC 1:25

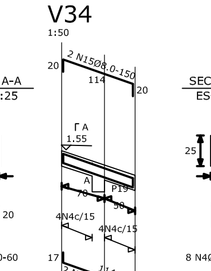


V33
1:50

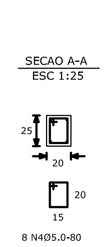


SECAO A-A ESC 1:25

V34
1:50



SECAO A-A ESC 1:25



RELACAO DO ACO

V28 V29 V30
V31 V32 V33
V34 V35 V36

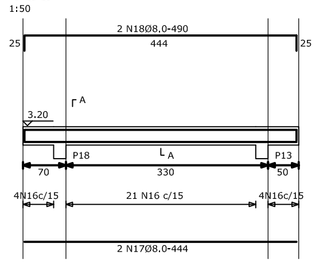
ACO	N	DIAM.	Q.	UNIT (cm)	C. TOTAL (cm)
50A	2	6.3	2	194	388
	8	6.3	2	389	778
	9	6.3	2	395	790
	11	6.3	4	143	572
	12	6.3	2	154	308
	5	8.0	4	94	376
	6	8.0	4	130	520
	13	8.0	2	168	336
	14	8.0	2	129	258
	15	8.0	2	150	300
	17	8.0	4	444	1776
	18	8.0	4	490	1960
	1	5.0	30	52	1560
	3	5.0	2	179	358
	4	5.0	22	80	1760
	7	5.0	70	42	2940
	10	5.0	16	60	960
60	16	5.0	58	90	5220

RESUMO DO ACO

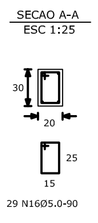
ACO	DIAM.	C. TOTAL (m)	PESO+ 0% (kgf)
CA50A	6.3	28.3	7
CA50A	8.0	55.2	22
CA60	5.0	127.9	20
PESO TOTAL			
CA50A	29 kgf		
CA60	20 kgf		

Vol. concreto total = 1.00 m3
Area de forma total = 14.00 m2

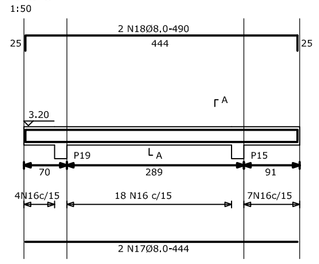
V35
1:50



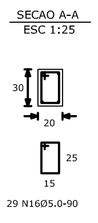
SECAO A-A ESC 1:25



V36
1:50



SECAO A-A ESC 1:25



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 - em caso de dúvidas, consultar o autor do projeto.
04 - não cortar nenhuma armadura sem autorização.
05 - ocorrendo a necessidade de realizar alterações em relação ao projeto, deverá haver aprovação 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 criterio da similaridade, deverá haver aprovação prévia da fiscalização.

ESPAÇO RESERVADO P/ OS CARIMBOS DE APROVAÇÃO P/ALI, BOMBEIROS, VIGILÂNCIA SANITÁRIA E FUNDEMA

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

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

Terceirizada: HELPCON Construções Projetos Serviços
Helpcon Construções Projetos Serviços Ltda.
Rua Conselheiro Lafayete, 190
89.205-350 Joinville - SC
Fone: (047) 3029-6022

Tipo: PROJETO ESTRUTURAL
Nome da Obra / Endereço: **UBS COSTA E SILVA**
Rua Comandante Telles de Mendonça - Bairro Costa e Silva - Joinville SC

Requerente: FUNDO MUNICIPAL DE SAÚDE
Proprietário: PREFEITURA MUNICIPAL DE JOINVILLE
Autor: ENG. RODRIGO HARTMANN DOBNER CREA: 101952-S/ SC

Conteúdo: SALA PARA COMPRESSORES
LOCAÇÃO, FORMAS CORTES E ARMADURAS

Arq. PLT: Escala: Indicada
Arq CAD: Num. Prancha: **ES 04/05**
Revisado por: Desenhado por: NATASCHA
Data: Dezembro/2011
Classificação:

A1 dwg - 841 x 594mm