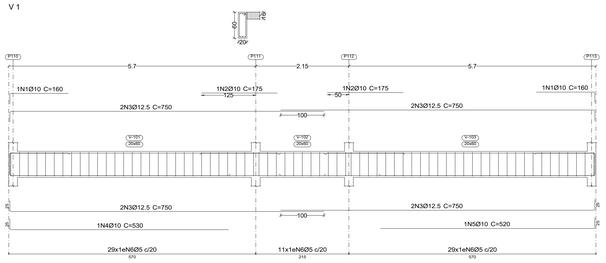
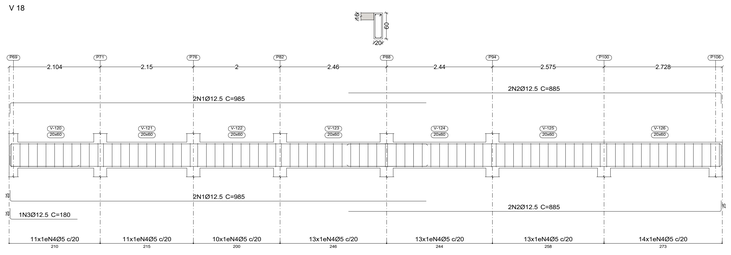
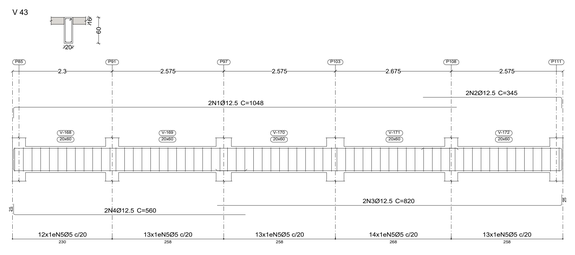
V 1



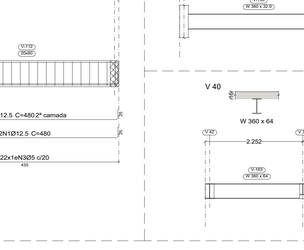
V 18



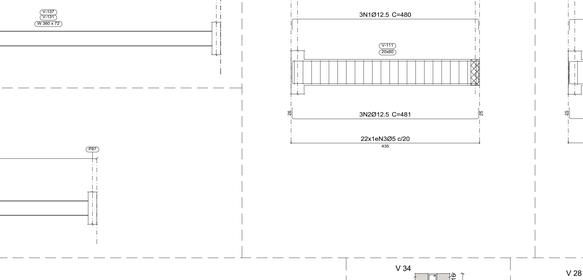
V 43



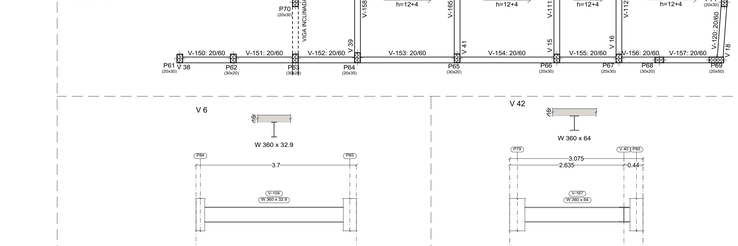
V 41



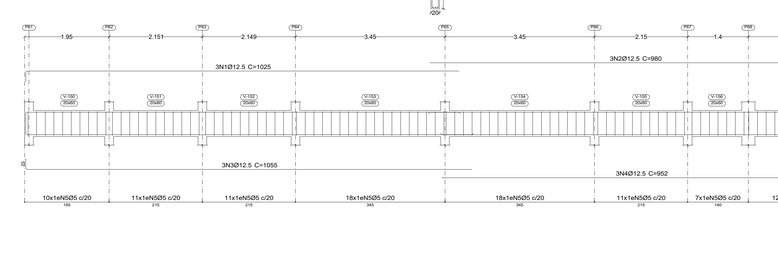
V 9



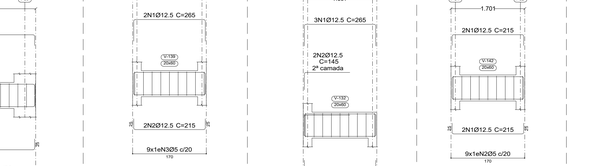
V 39



V 17



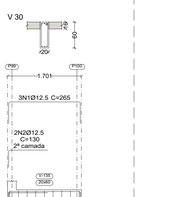
V 26



V 37

V 29
V 35

DETALHE - MONTAGEM

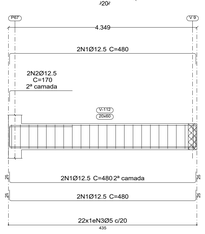


MONTAGEM COM VIGOTAS ALINHADAS

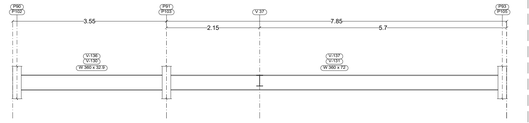


DETALHAMENTO LAJE SUBSOLO 02
ESCALA 1:75

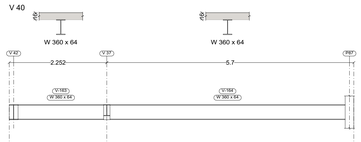
V 16



V 27
V 31

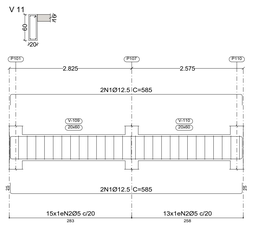


V 40



V 15

V 11



V 6

V 42

V 38

V 34

V 28

V 36

V 30

V 32

V 25

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 1	1	Ø10	2	60 20 139	160	320	2.0	
	2	Ø10	2	175	175	350	2.2	
	3	Ø12.5	8	60 725	750	6000	57.8	
	4	Ø10	1	60 505	530	530	3.3	
	5	Ø10	1	495 70	520	520	3.2	
	6	Ø5	69	35 15	148	10212		16.0
						Total+10%	112.5	21.5
V 9	1	Ø12.5	6	60 555	680	4080	39.3	
	2	Ø12.5	6	60 730 70	760	4560	43.9	
	3	Ø12.5	4	275	275	1100	10.6	
	4	Ø12.5	2	440	440	880	8.5	
	5	Ø6.3	4	590	590	2360	5.8	
	6	Ø5	69	35 15	148	10212		16.0
						Total+10%	118.9	17.6
V 11	1	Ø12.5	4	60 535 70	585	2340	22.5	
	2	Ø5	28	35 15	148	4144		6.5
						Total+10%	24.8	7.2
V 15	1	Ø12.5	3	60 430 70	480	1440	13.9	
	2	Ø12.5	3	60 430 70	481	1443	13.9	
	3	Ø5	22	35 15	148	3256		5.1
						Total+10%	30.6	5.6
V 16	1	Ø12.5	6	60 430 70	480	2880	27.7	
	2	Ø12.5	2	60 143	170	340	3.3	
	3	Ø5	22	35 15	148	3256		5.1
						Total+10%	34.1	5.6
V 17	1	Ø12.5	4	60 1020	1045	4180	40.3	
	2	Ø12.5	2	60 835 70	860	1720	16.6	
	3	Ø12.5	2	60 830 70	855	1710	16.5	
	4	Ø12.5	1	60 155	180	180	1.7	
	5	Ø5	90	35 15	148	13320		20.9
						Total+10%	82.6	23.0
V 18	1	Ø12.5	4	60 960	985	3940	37.9	
	2	Ø12.5	4	60 860 70	885	3540	34.1	
	3	Ø12.5	1	60 155	180	180	1.7	
	4	Ø5	85	35 15	148	12580		19.8
						Total+10%	81.1	21.8
V 25	1	Ø12.5	4	30 230 70	330	1320	12.7	
	2	Ø6.3	12	30 230 70	246	2952	7.2	
	3	Ø5	12	35 15	168	2016		3.2
						Total+10%	21.9	3.5
V 28	1	Ø12.5	6	60 165 70	265	1590	15.3	
	2	Ø12.5	2	60 125 70	145	290	2.8	
	3	Ø5	9	35 15	148	1332		2.1
						Total+10%	19.9	2.3
V 30	1	Ø12.5	6	60 165 70	265	1590	15.3	
	2	Ø12.5	2	60 90 70	130	260	2.5	
	3	Ø5	9	35 15	148	1332		2.1
						Total+10%	19.6	2.3
V 32	1	Ø12.5	3	30 165 70	265	795	7.7	
	2	Ø12.5	2	60 90 70	130	260	2.5	
	3	Ø12.5	3	60 165 70	245	735	7.1	
	4	Ø5	9	35 15	148	1332		2.1
						Total+10%	19.0	2.3
V 34	1	Ø12.5	2	30 165 70	265	530	5.1	
	2	Ø12.5	2	60 165 70	215	430	4.1	
	3	Ø5	9	35 15	148	1332		2.1
						Total+10%	10.1	2.3
V 36	1	Ø12.5	4	60 165 70	215	860	8.3	
	2	Ø5	9	35 15	148	1332		2.1
						Total+10%	9.1	2.3
V 38	1	Ø12.5	3	60 1000	1025	3075	29.6	
	2	Ø12.5	3	60 955	980	2940	28.3	
	3	Ø12.5	3	60 1000	1055	3165	30.5	
	4	Ø12.5	2	60 927 70	952	2856	27.5	
	5	Ø5	98	35 15	148	14504		22.8
						Total+10%	127.5	25.1
V 39	1	Ø12.5	3	60 975	1000	3000	28.9	
	2	Ø12.5	6	60 735 70	780	4680	45.1	
	3	Ø12.5	3	60 955	980	2940	28.3	
	4	Ø5	84	35 15	148	12432		19.5
						Total+10%	112.5	21.5
V 43	1	Ø12.5	2	60 1003	1048	2096	20.2	
	2	Ø12.5	2	60 320 70	345	690	6.6	
	3	Ø12.5	2	60 790 70	820	1640	15.8	
	4	Ø12.5	2	60 539	560	1120	10.8	
	5	Ø5	65	35 15	148	9620		15.1
						Total+10%	58.7	16.6
V 41	1	Ø12.5	2	60 637 70	712	1424	13.7	
	2	Ø12.5	1	155	165	165	1.6	
	3	Ø12.5	2	60 637 70	687	1374	13.2	
	4	Ø5	33	35 15	148	4884		7.7
						Total+10%	31.4	8.5
						Ø5:	0.0	185.1
						Ø6.3:	14.3	0.0
						Ø10:	11.8	0.0
						Ø12.5:	851.1	0.0
						Total:	877.2	185.1

SUBSOLO 02
Desenho de vigas
Concreto: C25, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Aço laminado em perfis: A-572 Grau 50, t<=50
Escala vigas 1:50
Escala seções 1:50
Escala aberturas 1:50

Resumo Aço Desenho de vigas		Comp. total (m)	Peso+10% (kg)	Total
CA-50	Ø6.3	53.1	14	
	Ø10	17.2	12	
	Ø12.5	803.4	851	877
CA-60	Ø5	1071.0	185	185
Total				1062

DATA	DESCRIÇÃO
10.26	EMISSÃO INICIAL
A B C D	REVISÃO

ESTE DESENHO É DE PROPRIEDADE EXCLUSIVA DE CÉSAR COMÉRCIO E SERVIÇOS E O MAIOR CUIDADO FOI TOMADO NA SUA ELABORAÇÃO. PROIBIDA A REPRODUÇÃO SEM SUA AUTORIZAÇÃO

CÉSAR COMÉRCIO E SERVIÇOS LTDA
CNPJ: 10.713.406/0001-75
CREA 103388DDMG
RUA ANTÔNIO MAURÍCIO FERREIRA, Nº 57 - CAXAMBU/MG
csaengenhariacax@gmail.com

CONTRATANTE:
CONSÓRCIO PÚBLICO INTERMUNICIPAL MULTIFINALITÁRIO DA AMAG - CIMAG
CNPJ: 21.406.451/0001-01
CONTRATO DE PRESTAÇÃO DE SERVIÇOS Nº 115/2026

PROPRIETÁRIO/OBRA:
PREFEITURA MUNICIPAL DE SÃO THOMÉ DAS LETRAS
CNPJ: 18.008.920/0000-11
PROJETO PARA CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL - CEMEI
RUA HELENA JEFERSON DE SOUZA, S/Nº, CENTRO - SÃO THOMÉ DAS LETRAS

DESENHO:
EDSON DA SILVA ARANTES
CREA/MG: 60.220/D

RT PROJETO:
EDSON DA SILVA ARANTES
CREA/MG: 60.220/D

DATA: 03/2026

ASSINATUR

govbr Documento assinado digitalmente
EDSON DA SILVA ARANTES
Data: 27/01/2026 11:08:25-0300
Verifique em https://validar.iti.gov.br

DESCRIÇÃO:
PROJETO ESTRUTURAL
DETALHAMENTO DE VIGAS E LAJES - NÍVEL SUBSOLO 02

ESCALA: Como indicado
DES. Nº: 1200.460-CIV-126
REVISÃO: A

A0