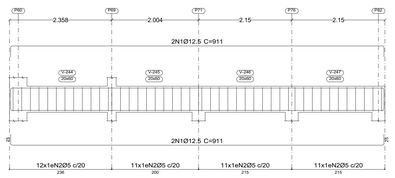
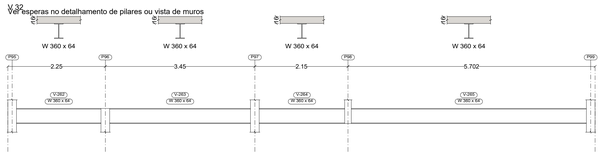
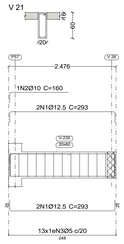
V 25



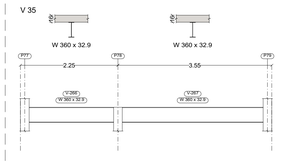
V 32
Ver esperas no detalhamento de pilares ou vista de muros



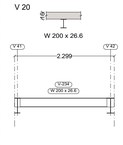
V 21



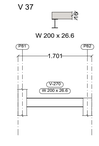
V 35



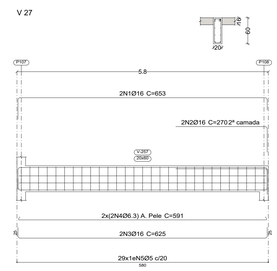
V 20



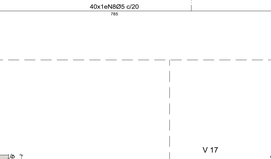
V 37



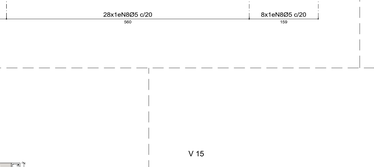
V 27



V 29



V 30
Ver esperas no detalhamento de pilares ou vista de muros

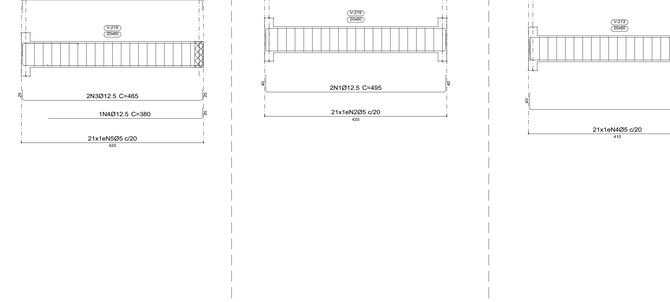


V 10
Ver esperas no detalhamento de pilares ou vista de muros

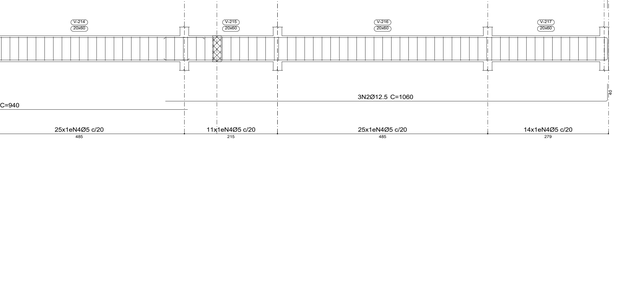
V 36
Ver esperas no detalhamento de pilares ou vista de muros

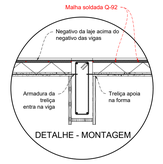


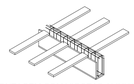
V 12



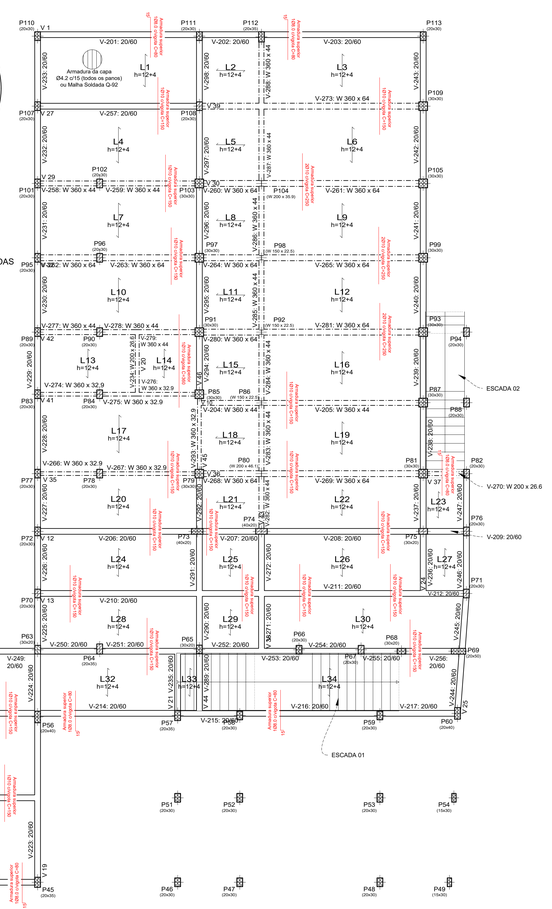
V 1







MONTAGEM COM VIGOTAS ALINHADAS



DETALHAMENTO LAJE SUBSOLO 01
ESCALA 1:75

V 13

V 18

V 16

V 17

V 15

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 1	1	Ø12.5	4	60 / 695 / 15	695	2780	26.8	
	2	Ø12.5	4	60 / 800 / 15	840	3360	32.4	
	3	Ø12.5	1	500	500	500	4.8	
	4	Ø12.5	1	470	470	470	4.5	
	5	Ø12.5	1	490	490	490	4.7	
	6	Ø5	69	20 / 35 / 15	148	10212		16.0
						Total+10%	80.5	17.6
V 12	1	Ø12.5	2	60 / 815 / 15	855	1710	16.5	
	2	Ø12.5	4	60 / 780 / 15	785	3140	30.2	
	3	Ø12.5	2	500	500	1000	9.6	
	4	Ø12.5	2	285 / 15	310	620	6.0	
	5	Ø12.5	1	60 / 125 / 15	150	150	1.4	
	6	Ø12.5	2	60 / 800 / 15	840	1680	16.2	
	7	Ø12.5	2	450	450	900	8.7	
	8	Ø12.5	2	60 / 485 / 15	490	980	9.4	
	9	Ø6.3	4	590	590	2360	5.8	
	10	Ø6.3	4	255	255	1020	2.5	
	11	Ø6.3	4	170	170	680	1.7	
	12	Ø6.3	4	575	575	2300	5.6	
	13	Ø5	87	20 / 35 / 15	148	12876		20.2
						Total+10%	125.0	22.2
V 13	1	Ø12.5	2	60 / 825 / 15	865	1730	16.7	
	2	Ø12.5	2	60 / 785 / 15	805	1610	15.5	
	3	Ø12.5	1	465	465	465	4.5	
	4	Ø12.5	2	60 / 820 / 15	845	1690	16.3	
	5	Ø12.5	2	60 / 734 / 15	749	1498	14.4	
	6	Ø12.5	1	450	450	450	4.3	
	7	Ø12.5	1	565	565	565	5.4	
	8	Ø5	76	20 / 35 / 15	148	11248		17.7
						Total+10%	84.8	19.5
V 15	1	Ø12.5	3	60 / 935 / 15	975	2925	28.2	
	2	Ø12.5	6	60 / 1020 / 15	1060	6360	61.3	
	3	Ø12.5	3	60 / 900 / 15	940	2820	27.2	
	4	Ø5	96	20 / 35 / 15	148	14208		22.3
						Total+10%	128.4	24.5
V 16	1	Ø12.5	2	60 / 415 / 15	470	940	9.1	
	2	Ø12.5	1	60 / 125 / 15	155	155	1.5	
	3	Ø12.5	2	60 / 415 / 15	465	930	9.0	
	4	Ø12.5	1	380 / 15	380	380	3.7	
	5	Ø5	21	20 / 35 / 15	148	3108		4.9
						Total+10%	25.6	5.4
V 17	1	Ø12.5	4	60 / 415 / 15	495	1980	19.1	
	2	Ø5	21	20 / 35 / 15	148	3108		4.9
						Total+10%	21.0	5.4
V 18	1	Ø12.5	4	60 / 830 / 15	910	3640	35.1	
	2	Ø5	43	20 / 35 / 15	148	6364		10.0
						Total+10%	38.6	11.0
V 21	1	Ø12.5	4	60 / 243 / 15	293	1172	11.3	
	2	Ø10	1	60 / 135	160	160	1.0	
	3	Ø5	13	20 / 35 / 15	148	1924		3.0
						Total+10%	13.5	3.3
V 25	1	Ø12.5	4	60 / 861 / 15	911	3644	35.1	
	2	Ø5	45	20 / 35 / 15	148	6660		10.5
						Total+10%	38.6	11.6
V 27	1	Ø16	2	60 / 575 / 15	653	1306	20.6	
	2	Ø16	2	60 / 211 / 15	270	540	8.5	
	3	Ø16	2	60 / 575 / 15	625	1250	19.7	
	4	Ø6.3	4	60 / 575 / 15	591	2364	5.8	
	5	Ø5	29	20 / 35 / 15	148	4292		6.7
						Total+10%	60.1	7.4
						Ø5:	0.0	127.9
						Ø6.3:	23.6	0.0
						Ø10:	1.1	0.0
						Ø12.5:	537.7	0.0
						Ø16:	53.7	0.0
						Total:	616.1	127.9

SUBSOLO 01
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	250.8	68	
	Ø10	18.8	13	
	Ø12.5	938.9	995	
	Ø16	62.6	109	1185
CA-60	Ø5	1453.4	251	251
Total				1436

DESCRIÇÃO
A 12.26 EMISSÃO INICIAL
DATA
REVISÃO
A B C D

ESTE DESENHO É DE PROPRIEDADE INTELECTUAL DA CONTRATADA DOS SERVIÇOS E COMANDO CESAR PINTO E TAIO ARQUITETURA E NÃO PODERÁ SER REPRODUZIDO SEM SUA AUTORIZAÇÃO

CÉSAR COMÉRCIO E SERVIÇOS LTDA
CNPJ: 10.713.406/0001-75
CREA 1033860DMG
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

ASSINATURA:
Documento assinado digitalmente
gov.br EDSON DA SILVA ARANTES
Data: 27/05/2026 11:58:23-0300
Verifique em https://validar.iti.gov.br

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

DATA:
03/2026

DESCRIÇÃO:
PROJETO ESTRUTURAL
DETALHAMENTO DE VIGAS E LAJES - NÍVEL SUBSOLO 01 - PARTE 01

ESCALA:
Como indicado

DES. Nº:
1200.460-CIV-127

REVISÃO
A

A0