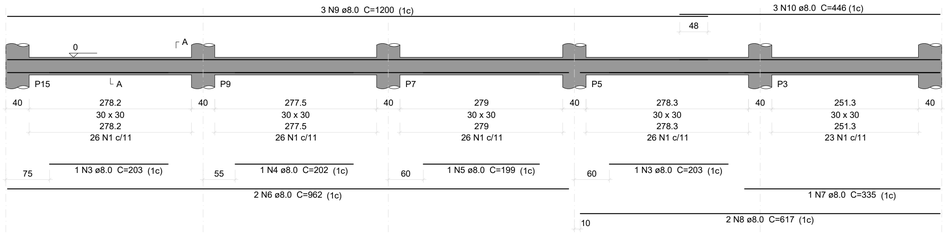
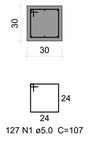
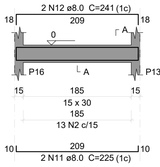
VB5
ESC 1:50



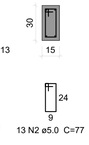
SEÇÃO A-A
ESC 1:25



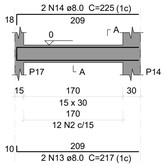
VB6
ESC 1:50



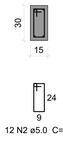
SEÇÃO A-A
ESC 1:25



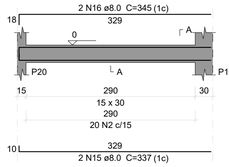
VB7
ESC 1:50



SEÇÃO A-A
ESC 1:25



VB8
ESC 1:50



SEÇÃO A-A
ESC 1:25

Relação do aço

VB5 VB6 VB7 VB8 VB9 VB10 VB11

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	176	107	18832
	2	5.0	127	77	9779
CA50	3	8.0	2	203	406
	4	8.0	1	202	202
	5	8.0	1	199	199
	6	8.0	2	962	1924
	7	8.0	1	335	335
	8	8.0	2	617	1234
	9	8.0	3	1200	3600
	10	8.0	3	446	1338
	11	8.0	2	225	450
	12	8.0	2	241	482
	13	8.0	2	217	434
	14	8.0	2	225	450
	15	8.0	4	337	1348
	16	8.0	4	345	1380
	17	8.0	2	992	1984
	18	8.0	2	1000	2000
	19	8.0	6	644	3864

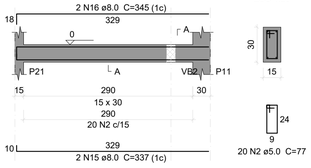
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	216.3	93.9
CA60	5.0	286.2	48.5

PESO TOTAL (kg)	
CA50	93.9
CA60	48.5

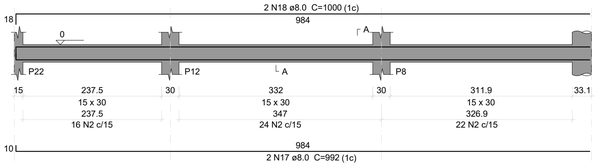
Volume de concreto (C-30) = 2.73 m³
Área de forma = 32.78 m²

VB9
ESC 1:50

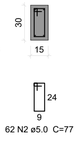


SEÇÃO A-A
ESC 1:25

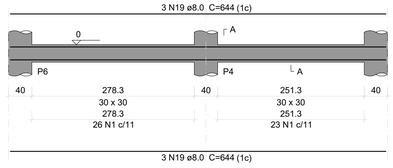
VB10
ESC 1:50



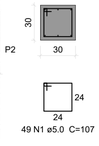
SEÇÃO A-A
ESC 1:25



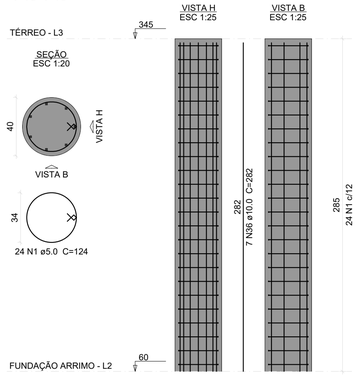
VB11
ESC 1:50



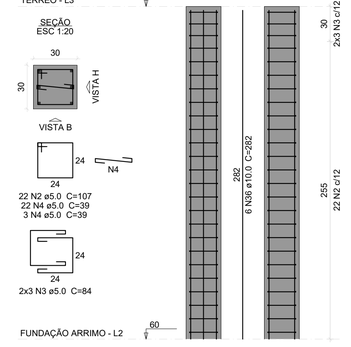
SEÇÃO A-A
ESC 1:25



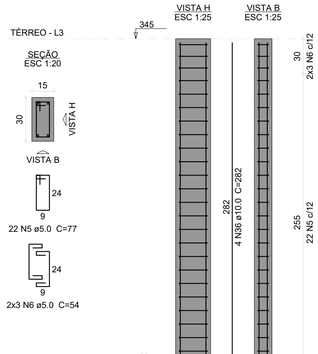
P1=P2=P3=P4=P5=P6=P7=P9=P15=P18=P19



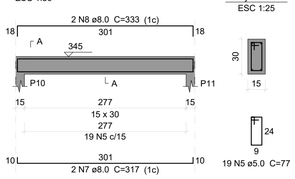
P8



P10=P11=P12=P13=P14=P16=P17=P20=P21=P22

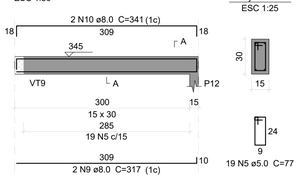


VT1
ESC 1:50



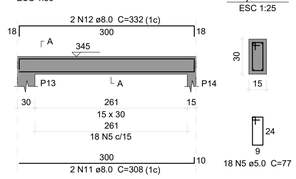
SEÇÃO A-A
ESC 1:25

VT2
ESC 1:50



SEÇÃO A-A
ESC 1:25

VT3
ESC 1:50



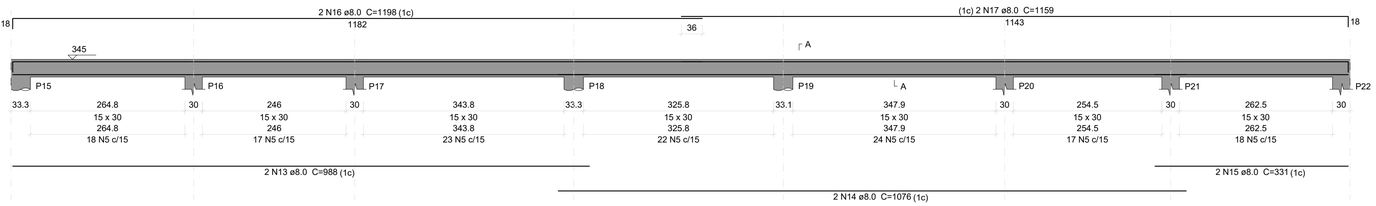
SEÇÃO A-A
ESC 1:25

Relação do aço

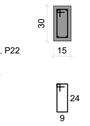
11xP1 P8 10xP10 VT1 VT2 VT3 VT4 VT5 VT6 VT7 VT8 VT9 VT10 VT11

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	264	124	32736
	2	5.0	198	107	21186
	3	5.0	6	84	504
	4	5.0	25	39	975
	5	5.0	542	77	41734
	6	5.0	60	54	3240
CA50	7	8.0	2	317	634
	8	8.0	2	333	666
	9	8.0	2	317	634
	10	8.0	2	341	682
	11	8.0	2	308	616
	12	8.0	2	332	664
	13	8.0	2	988	1976
	14	8.0	2	1076	2152
	15	8.0	2	331	662
	16	8.0	2	1198	2396
	17	8.0	2	1159	2318
	18	8.0	1	362	362
	19	8.0	1	222	222
	20	8.0	1	229	229
	21	8.0	2	998	1996
	22	8.0	1	218	218
	23	8.0	1	335	335
	24	8.0	2	653	1306
	25	8.0	3	1198	3594
	26	8.0	3	492	1476
	27	8.0	2	225	450
	28	8.0	4	241	964
	29	8.0	2	217	434
	30	8.0	4	337	1348
	31	8.0	4	361	1444
	32	8.0	2	992	1984
	33	8.0	2	1016	2032
	34	8.0	3	644	1932
	35	8.0	3	688	2064
	36	10.0	123	282	34686

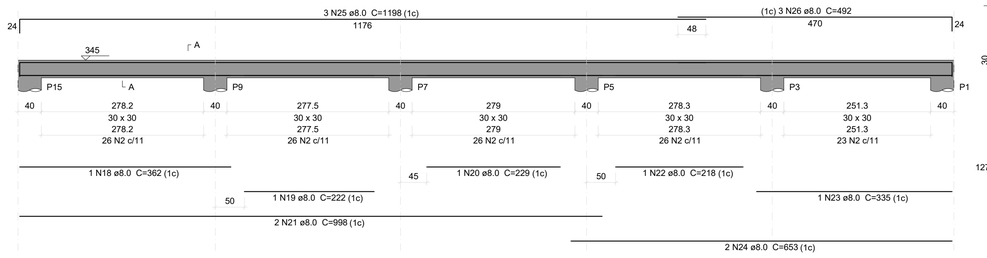
VT4
ESC 1:50



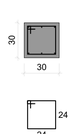
SEÇÃO A-A
ESC 1:25



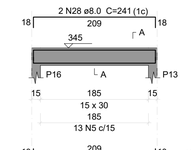
VT5
ESC 1:50



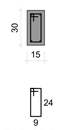
SEÇÃO A-A
ESC 1:25



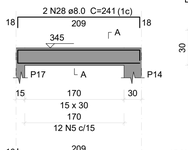
VT6
ESC 1:50



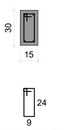
SEÇÃO A-A
ESC 1:25



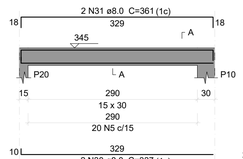
VT7
ESC 1:50



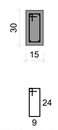
SEÇÃO A-A
ESC 1:25



VT8
ESC 1:50



SEÇÃO A-A
ESC 1:25



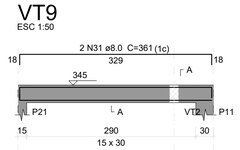
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	357.9	155.3
	10.0	346.9	235.2
CA60	5.0	1003.8	170.2

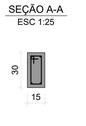
PESO TOTAL (kg)	
CA50	390.6
CA60	170.2

Volume de concreto (C-30) = 9.42 m³
Área de forma = 122.23 m²

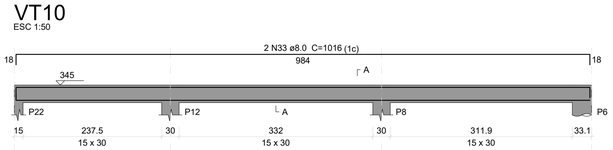
VT9
ESC 1:50



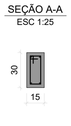
SEÇÃO A-A
ESC 1:25



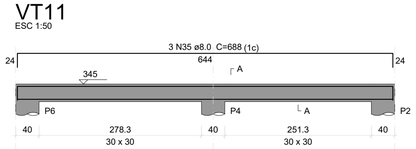
VT10
ESC 1:50



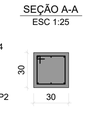
SEÇÃO A-A
ESC 1:25



VT11
ESC 1:50



SEÇÃO A-A
ESC 1:25



PROJETO ESTRUTURAL

REFORMA E AMPLIAÇÃO DA ESCOLA MUNICIPAL MARIA ALICE DE SOUZA - COMUNIDADE DE RIO DAS PEDRAS

Descrição do Projeto: Armações Vigas Baldrames, Pilares e Vigas de Travamento e Resumo de Aço.

Responsável Tecnico:
LWAN MATHEUS COSTA SOUZA:07052436566
Assinado de forma digital por LWAN MATHEUS COSTA SOUZA:07052436566
Dados: 2026.05.05 19:31:24 -03'00'
Lwan Matheus Costa Souza
Engenheiro(a) Civil - Crea: 255.542-D/MG

Endereço: Comunidade de Rio das Pedras, no Município de Glaucilândia-MG.

Contratante:
Herivelto Alves Luiz
Prefeito Municipal de Glaucilândia-MG

Area (m²): 153,63 m²	Tipo da Edificação: Edificação	Prancha: 05/07
Data: 05 de maio de 2026	Art.: MG20264916476	
Referência / Número da pasta: VLK - 1PSP - GLA -31	Escala: Indicada	

Contratada:
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(38) 9 9977-6300
CNPJ: 57.955.661/0001-98
engenhariavlk@gmail.com
Avenida Coronel Prates, nº 409, Sala 301
Centro, Montes Claros-MG

Contratante:
Prefeitura Glaucilândia 2021-2024 Nosso município em 1º lugar!
(38) 3236-8136
CNPJ: 01.612.496/0001-17
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Praça José Brant Maia, nº 01
Centro, Glaucilândia-MG