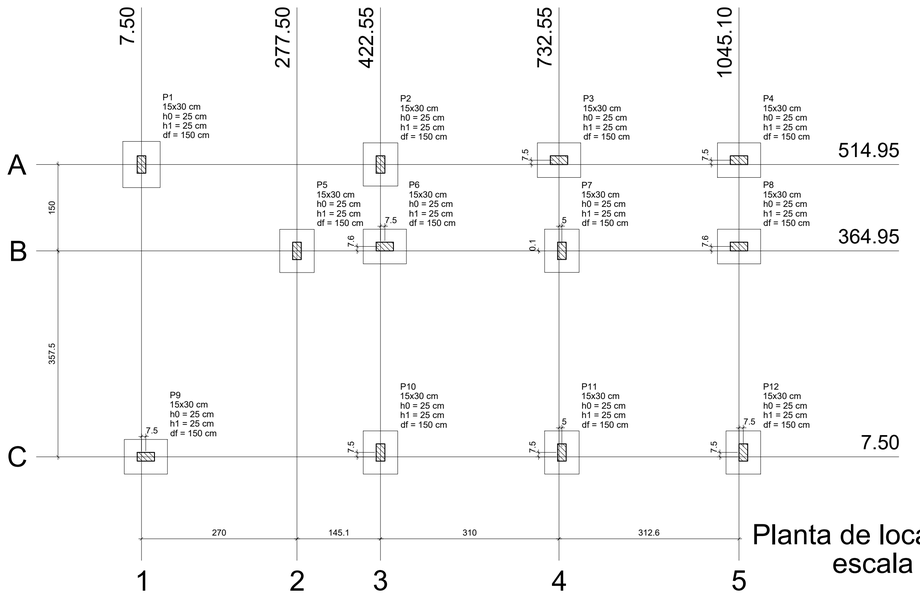
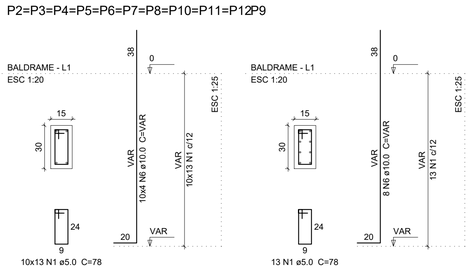
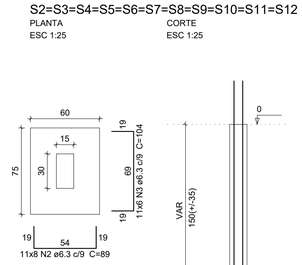


Planta de locação
escala 1:50

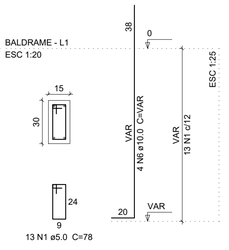
P2=P3=P4=P5=P6=P7=P8=P10=P11=P12P9



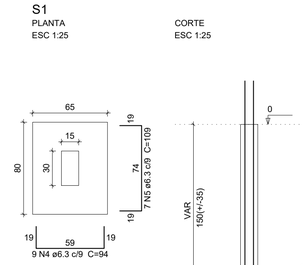
S2=S3=S4=S5=S6=S7=S8=S9=S10=S11=S12



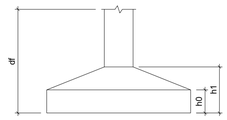
P1



S1



Pilar										Fundação				
Nome	Seção (cm)	X (cm)	Y (cm)	Carga Máx. (tf)	Carga Mín. (tf)	Mx (kgf.m)	My (kgf.m)	Fx (tf)	Fy (tf)	Lado B (cm)	Lado H (cm)	h0 / ha (cm)	h1 / hb (cm)	df (cm)
P1	15x30	7.50	514.95	5.2	4.6	600	300	0.4	0.9	65	80	25	25	150
P2	15x30	422.60	514.95	4.9	3.4	400	100	0.2	0.2	60	75	25	25	150
P3	15x30	732.55	522.45	3.5	2.6	200	300	0.3	0.2	60	75	25	25	150
P4	15x30	1045.10	522.45	2.5	1.6	200	200	0.3	0.2	60	75	25	25	150
P5	15x30	277.50	364.95	3.4	2.8	300	200	0.4	0.4	60	75	25	25	150
P6	15x30	430.05	372.55	4.4	3.4	300	300	0.3	0.3	60	75	25	25	150
P7	15x30	737.50	365.05	5.0	4.3	400	100	0.1	0.5	60	75	25	25	150
P8	15x30	1045.10	372.55	4.2	3.6	300	200	0.3	0.4	60	75	25	25	150
P9	15x30	15.00	7.50	4.5	4.1	400	300	0.4	0.7	60	75	25	25	150
P10	15x30	422.55	15.00	5.1	4.7	300	200	0.2	0.3	60	75	25	25	150
P11	15x30	737.50	15.00	4.7	4.2	300	100	0.1	0.3	60	75	25	25	150
P12	15x30	1052.60	15.00	3.3	2.9	300	200	0.3	0.4	60	75	25	25	150



Relação do aço

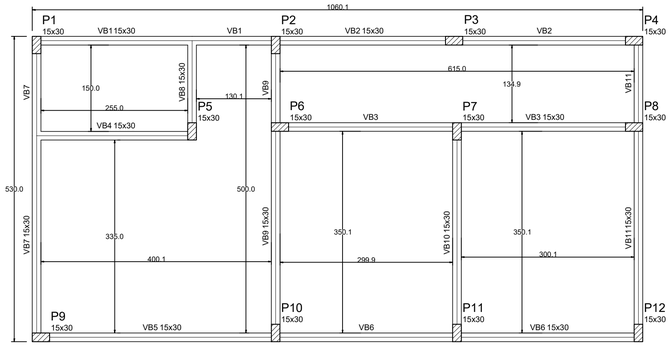
S1 S9

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	156	78	12168
CA50	2	6.3	88	89	7832
	3	6.3	66	104	6864
	4	6.3	9	94	846
	5	6.3	7	109	763
	6	10.0	52	VAR	VAR

Resumo do aço

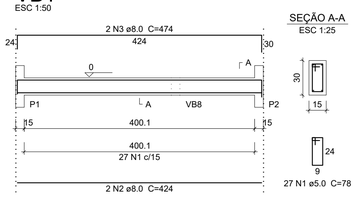
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	163.1	39.9
	10.0	105.6	65.1
CA60	5.0	121.7	18.8
PESO TOTAL (kg)			
CA50	105		
CA60	18.8		

Volume de concreto (C-25) = 2.18 m³
Área de forma = 24.35 m²

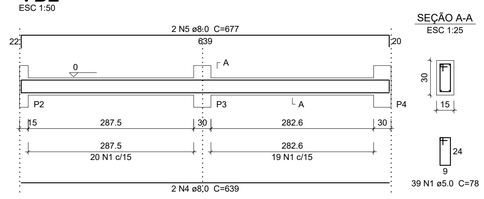


Forma do pavimento Baldrame
escala 1:50

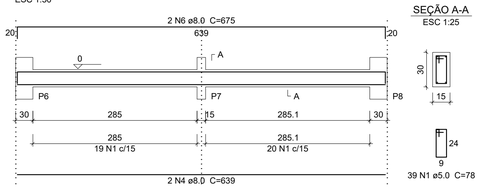
VB1
ESC 1:50



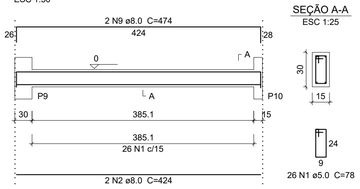
VB2
ESC 1:50



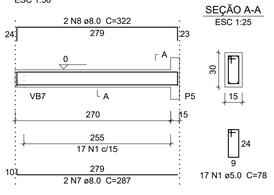
VB3
ESC 1:50



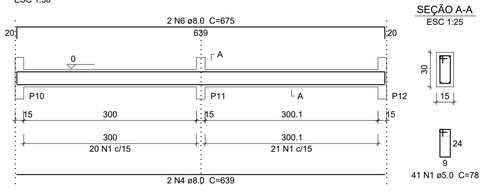
VB5
ESC 1:50



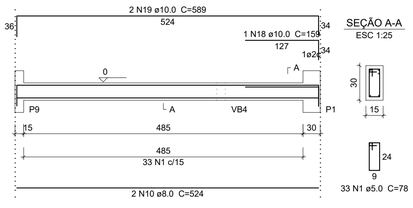
VB4
ESC 1:50



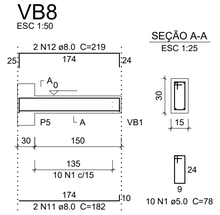
VB6
ESC 1:50



VB7
ESC 1:50



VB8
ESC 1:50



Relação do aço

VB1	VB2	VB3
VB4	VB5	VB6
VB7	VB8	VB9
VB10	VB11	

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	317	78	24726
CA50	2	8.0	4	424	1696
	3	8.0	2	474	948
	4	8.0	6	639	3834
	5	8.0	2	677	1354
	6	8.0	4	675	2700
	7	8.0	2	287	574
	8	8.0	2	322	644
	9	8.0	2	474	948
	10	8.0	4	524	2096
	11	8.0	2	182	364
	12	8.0	2	219	438
	13	8.0	2	562	1124
	14	8.0	2	374	748
	15	8.0	2	414	828
	16	8.0	2	532	1064
	17	8.0	2	563	1126
	18	10.0	1	159	159
	19	10.0	2	589	1178

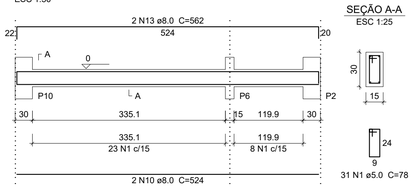
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8.0	204.9	80.8
	10.0	13.4	8.2
CA60	5.0	247.3	38.1
PESO TOTAL (kg)			
CA50	89.1		
CA60	38.1		

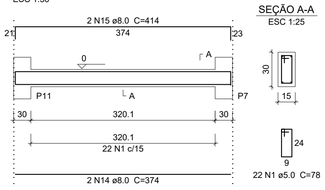
Volume de concreto (C-25) = 2.35 m³
Área de forma = 39.23 m²

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VB1	15x30	0	0
VB2	15x30	0	0
VB3	15x30	0	0
VB4	15x30	0	0
VB5	15x30	0	0
VB6	15x30	0	0
VB7	15x30	0	0
VB8	15x30	0	0
VB9	15x30	0	0
VB10	15x30	0	0
VB11	15x30	0	0

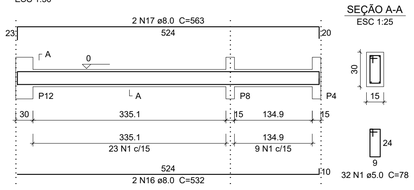
VB9
ESC 1:50



VB10
ESC 1:50



VB11
ESC 1:50



PREFEITURA:

PROJETO ESTRUTURAL

OBRA: Ampliação da Escola Municipal Virgilino Batista
PROPRIETÁRIO: Prefeitura Municipal de Carmolandia
CIDADE: Carmolândia - TO
TIPO DA OBRA: PÚBLICA

PARA USO DO REQUERENTE

R.T. – PROJETO:

Bruno Carreiro Santos
Engenheiro Civil
CREA: 201065/D-TO

Engenheiro Civil Bruno Carreiro Santos – CREA: 201065/D-TO

PROPRIETÁRIO:

PREFEITURA MUNICIPAL DE CARMOLANDIA
CNPJ: 25.063.868/0001-61

CONTATO: (63) 98440-6047

PROJETO

QUADRO DE ÁREAS:

VERIFICAR PROJETO ARQUITETONICO

CONTEUDO DA FOLHA:

- PLANTA DE LOCAÇÃO
- RESUMO DE AÇO
- DETALHAMENTO SAPATAS
- DETALHAMENTO VIGAS BALDRAME
- FORMA VIGAS BALDRAME

ENDEREÇO:			ESCALA:	DATA:
ESCOLA MUNICIPAL VIRGILINO BATISTA			INDICADA	OUTUBRO /2019
BAIRRO:	CIDADE:	CEP:	DESENHO: ESTRUT.	FOLHA NÚMERO:
CENTRO	CARMOLÂNDIA – TO	77.840-000	BRUNO	01–02