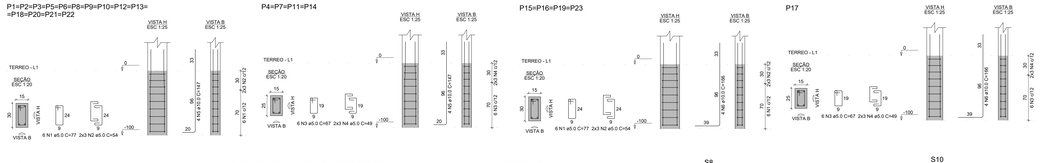


RELAÇÃO DO AÇO

14ø11 4ø94 4ø115
P17

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	108	77	8316
	2	5.0	108	54	5832
	3	5.0	36	87	3132
CA50	4	5.0	30	49	1470
	5	10.0	72	147	10584
	6	10.0	20	166	3320

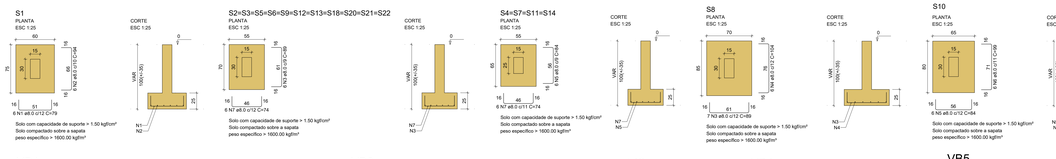
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	150	92.7
CA60	5.0	176.3	27.2

PESO TOTAL (kg)

CA50	85.7
CA60	27.2

Volume de concreto (C-30) = 0.74 m³
Área de forma = 14.93 m²



RELAÇÃO DO AÇO

58 5ø10
11ø12 5ø15

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	6	79	474
	2	8.0	6	94	564
	3	8.0	4	106	424
	4	8.0	4	104	424
	5	8.0	30	84	2520
	6	8.0	30	74	2220
	7	8.0	60	74	4440
	8	8.0	30	79	2370
	9	8.0	30	64	1920

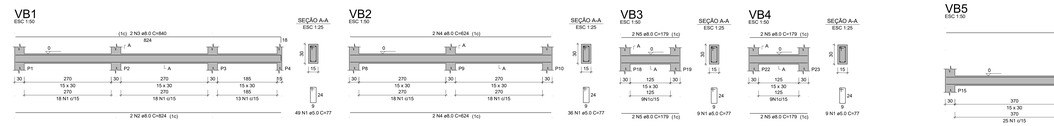
RESUMO DO AÇO

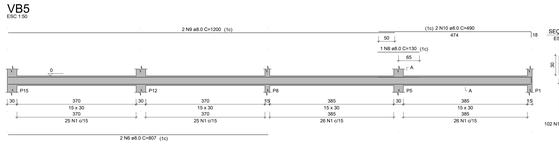
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA60	8.0	222.2	87.7

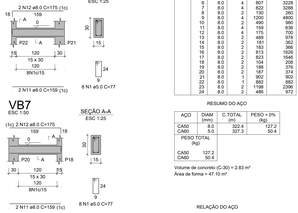
PESO TOTAL (kg)

CA60	87.7

Volume de concreto (C-30) = 2.29 m³
Área de forma = 14.23 m²







RELAÇÃO DO AÇO

VB1 VB2 VB3
VB4 VB5 VB6
VB7 VB8 VB9

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	420	77	32725
CA50	2	8.0	2	824	1648
	3	8.0	2	840	1680
	4	8.0	2	856	1712
	5	8.0	2	179	1432
	6	8.0	4	807	3228
	7	8.0	4	824	3296
	8	8.0	2	130	260
	9	8.0	4	1200	4800
	10	8.0	2	474	948
	11	8.0	2	159	636
	12	8.0	4	175	700
	13	8.0	2	159	318
	14	8.0	2	181	362
	15	8.0	2	183	366
	16	8.0	2	813	1626
	17	8.0	2	823	1646
	18	8.0	2	548	1096
	19	8.0	2	185	370
	20	8.0	2	187	374
	21	8.0	2	187	374
	22	8.0	2	852	1704
	23	8.0	2	1198	2396
	24	8.0	2	486	972

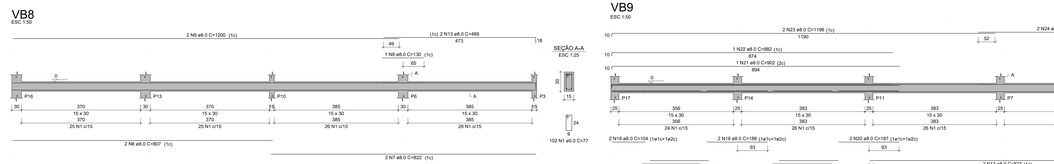
RESUMO DO AÇO

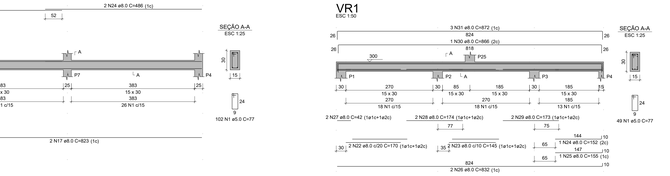
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	8.0	327.2	127.2
CA60	5.0	327.5	50.4

PESO TOTAL (kg)

CA50	127.2
CA60	50.4

Volume de concreto (C-30) = 2.83 m³
Área de forma = 47.10 m²





RELAÇÃO DO AÇO

16ø11-L3 5ø94-L3 2ø204.4
V11-L2 VC11-L4 VC41-L4
VC31-L4 VC44-L4 VR11-L3
VR41-L3 VR51-L3 VR71-L3
VR61-L3 VR81-L3 VR91-L3

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1114	77	85778
	2	5.0	108	54	5832
	3	5.0	30	49	1470
	4	5.0	30	49	1470
CA50	5	5.0	4	223	892
	6	8.0	2	130	260
	7	8.0	4	183	732
	8	8.0	2	813	1626
	9	8.0	2	823	1646
	10	8.0	2	845	1690
	11	8.0	2	104	208
	12	8.0	4	186	744
	13	8.0	2	113	226
	14	8.0	2	125	250
	15	8.0	1	488	488
	16	8.0	3	494	1482
	17	8.0	2	824	1648
	18	8.0	4	524	2096
	19	8.0	4	489	1956
	20	8.0	2	520	1040
	21	8.0	2	520	1040
	22	8.0	4	170	680
	23	8.0	2	150	300
	24	8.0	2	150	300
	25	8.0	2	150	310
	26	8.0	4	67	268
	27	8.0	4	67	268
	28	8.0	4	174	696
	29	8.0	4	173	692
	30	8.0	2	866	1732
	31	8.0	2	860	1720
	32	8.0	2	135	270
	33	8.0	4	179	716
	34	8.0	4	174	696
	35	8.0	4	807	3228
	36	8.0	4	822	3288
	37	8.0	2	192	384
	38	8.0	2	192	384
	39	8.0	4	101	404
	40	8.0	4	189	756
	41	8.0	4	191	764
	42	8.0	2	193	386
	43	8.0	2	823	1646
	44	8.0	2	823	1646
	45	8.0	2	494	988
	46	10.0	92	297	27324
	47	10.0	8	237	1916

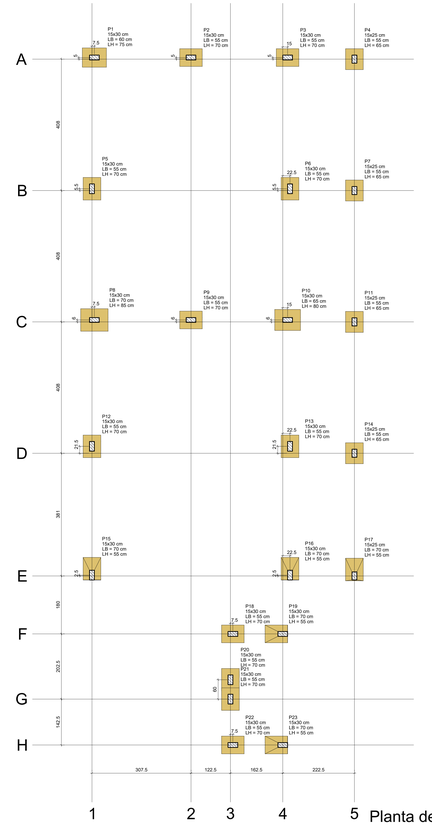
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	569.3	224.6
CA60	10.0	291.4	179.7
CA50	5.0	1016.8	156.7

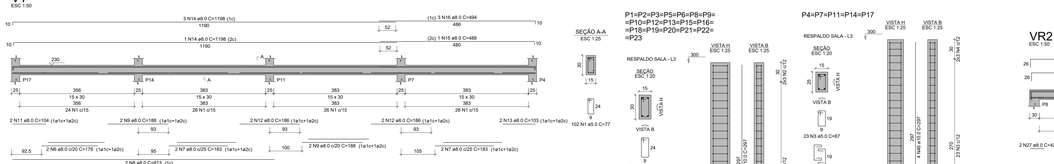
PESO TOTAL (kg)

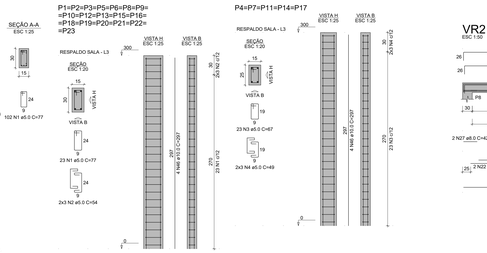
CA50	404.3
CA60	156.7

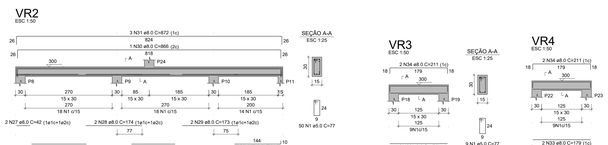
Volume de concreto (C-30) = 7.58 m³
Área de forma = 137.78 m²

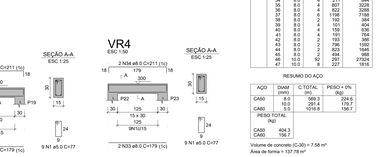


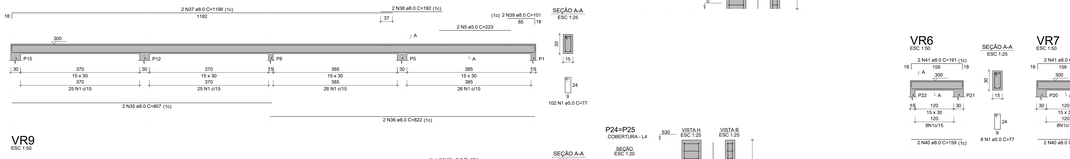
Pilar			Fundação				
Nome	Seção (cm)	Lado B (cm)	Lado H (cm)	N1 / Na (cm)	N / Nb (cm)	Nf (cm)	Hf (cm)
P1	15x30	60	75	25	25	100	
P2	15x30	55	75	25	25	100	
P3	15x30	55	75	25	25	100	
P4	15x30	55	65	25	25	100	
P5	15x30	55	70	25	25	100	
P6	15x30	55	70	25	25	100	
P7	15x30	55	65	25	25	100	
P8	15x30	55	70	25	25	100	
P9	15x30	55	70	25	25	100	
P10	15x30	55	65	25	25	100	
P11	15x25	55	65	25	25	100	
P12	15x30	55	70	25	25	100	
P13	15x30	55	70	25	25	100	
P14	15x25	55	65	25	25	100	
P15	15x30	70	85	25	25	100	
P16	15x30	70	70	25	25	100	
P17	15x25	55	65	25	25	100	
P18	15x30	55	70	25	25	100	
P19	15x30	70	55	25	25	100	
P20	15x30	55	70	25	25	100	
P21	15x30	55	70	25	25	100	
P22	15x30	55	70	25	25	100	
P23	15x30	70	55	25	30	100	

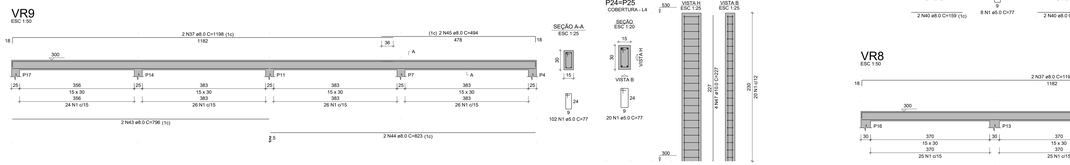


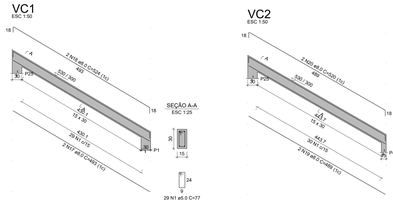


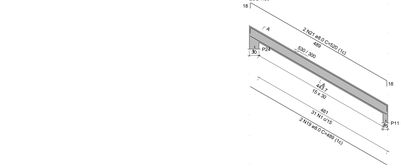


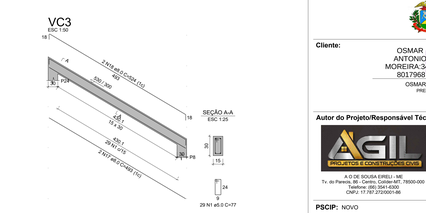


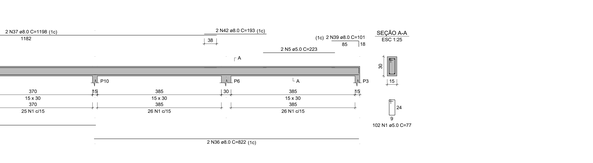












ESTADO DO MATO GROSSO

Cliente:
OSMAR ANTONIO MOREIRA:3454 8017968
OSMAR ANTONIO MOREIRA
PREFEITO MUNICIPAL

Autor do Projeto/Responsável Técnico: ALEX OSCAR DE SOUSA:9038486 5100
ALEX OSCAR DE SOUSA
ENGENHEIRO CIVIL CREA/PR - 141259/D

A O DE SOUSA EIRELI - ME
Tv. do Paraná, 89 - Centro, Cotriguaçu - MT, 78200-000
Telefone: (66) 3541-6300
CNPJ: 17.767.272/0001-86

PSCIP: NOVO **OCUPAÇÃO:** EDUCACIONAL E CULTURA FÍSICA

DADOS DA OBRA

Objeto de Contrato: **Convênio:** 0000
REFORMA E AMPLIAÇÃO DA ESCOLA MUNICIPAL MARIA QUITÉRIA COM CONSTRUÇÃO DE COMPLEXO ESPORTIVO.

Endereço da Obra:
ESTRADA CAPIXABA, COMUNIDADE SOMBRA DA MANHÃ - P.A SÃO PEDRO, PARANAÍTA - MT

Coordenada:
9°46'12.09"S | 56°41'25.63"O

ESTRUTURA DE CONCRETO

Conteúdo: SAPATAS, PILARES, VIGAS, TABELAS E LEGENDAS.

Quadro de Áreas/Legenda:

ÁREA DO TERRENO:	10.305,04 m²
ÁREA EXISTENTE:	1.945,68 m²
ÁREA A AMPLIAR:	1.658,46 m²
ÁREA TOTAL:	3.644,17 m²
TAXA DE OCUPAÇÃO:	36,36 %
TAXA DE PERMEABILIDADE:	64,64 %
ÍNDICE DE APROVEITAMENTO:	0,35%

REV: 08
DATA: Agosto/2025
ESCALA: Indicada

NOMECLATURA	FOLHA
EST. CON.	01/02

ART-RRT: 0 ORIGINAL A PRIMEIRA ALTERAÇÃO DE ACORDO COM A RRT: 1 ORIGINAL A SEGUNDA ALTERAÇÃO DE ACORDO COM A RRT: 2 ORIGINAL A TERCEIRA ALTERAÇÃO DE ACORDO COM A RRT: 3 ORIGINAL A QUARTA ALTERAÇÃO DE ACORDO COM A RRT: 4 ORIGINAL A QUINTA ALTERAÇÃO DE ACORDO COM A RRT: 5 ORIGINAL A SEXTA ALTERAÇÃO DE ACORDO COM A RRT: 6 ORIGINAL A SÉTIMA ALTERAÇÃO DE ACORDO COM A RRT: 7 ORIGINAL A OITAVA ALTERAÇÃO DE ACORDO COM A RRT: 8