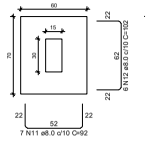
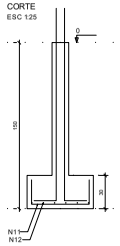
S1=S3=S5

PLANTA
ESC 125



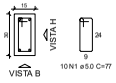
CORTE
ESC 125



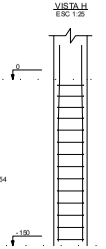
P1=P3=P5

BALDRAME - L1

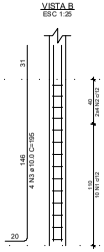
SEÇÃO
ESC 1:20



VISTA H
ESC 1:25

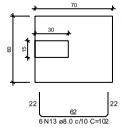


VISTA B
ESC 1:25

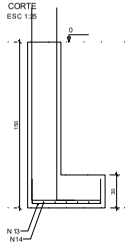


S2=S4=S6

PLANTA
ESC 125



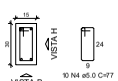
CORTE
ESC 1:25



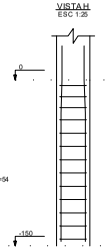
P2=P6

BALDRAME - L1

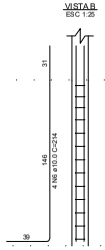
SEÇÃO
ESC 1:30



VISTA H
ESC 1:25



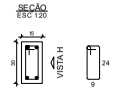
VISTA B
ESC 1:25



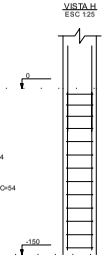
P4

BALDRAME - L1

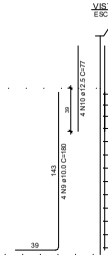
SEÇÃO
ESC 1:20



VISTA H
ESC 1:25



VISTA B
ESC 1:25



RELAÇÃO DO AÇO

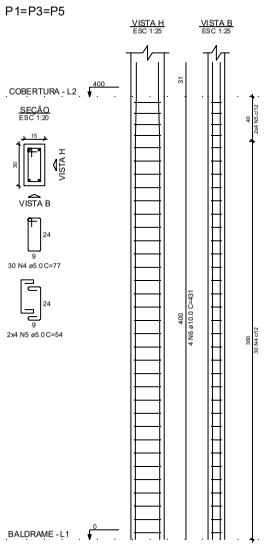
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
3xP1	CA60	1	5.0	30	77	2310
	CA60	2	5.0	24	54	1296
	CA50	3	10.0	12	195	2340
2xP2	CA60	4	5.0	20	77	1540
	CA60	5	5.0	12	54	648
	CA50	6	10.0	8	214	1712
P4	CA60	7	5.0	10	77	770
	CA60	8	5.0	6	54	324
	CA50	9	10.0	4	180	720
	CA50	10	12.5	4	77	308
3xS1	CA50	11	8.0	21	92	1932
	CA50	12	8.0	18	102	1836
3xS2	CA50	13	8.0	18	102	1836
	CA50	14	8.0	21	92	1932

RESUMO DO AÇO

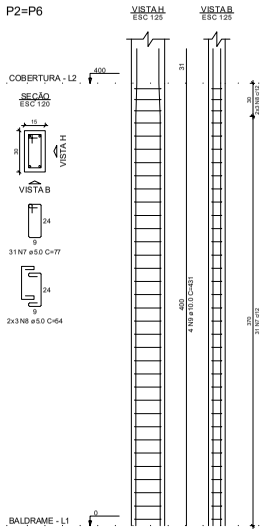
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT +0% (Barras)	UNIT	PESO +0% (kg)
CA50	5.0	75.4	7	12 m	29.7
	10.0	47.7	4	12 m	29.4
	12.5	3.1	1	12 m	3
CA60	5.0	68.9	6	12 m	10.6
PESO TOTAL (kg)					
CA50	62.1				
CA60	10.6				

Volume de concreto (C-30) = 1.08 m³
Área de forma = 12.76 m²

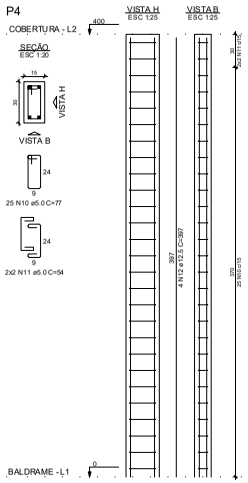
P1=P3=P5



P2=P6



P4



RELAÇÃO DO AÇO

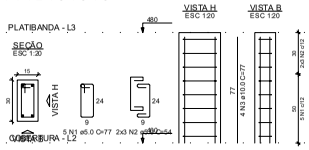
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
5xP1-L3	CA60	1	5.0	25	77	1925
	CA60	2	5.0	30	54	1620
3xP1-L2	CA50	3	10.0	20	77	1540
	CA60	4	5.0	90	77	6930
	CA60	5	5.0	24	54	1296
2xP2-L2	CA50	6	10.0	12	431	5172
	CA60	7	5.0	62	77	4774
	CA60	8	5.0	12	54	648
P4-L2	CA50	9	10.0	8	431	3448
	CA60	10	5.0	25	77	1925
	CA60	11	5.0	4	54	216
	CA50	12	12.5	4	397	1588

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT +0% (Barras)	UNIT	PESO +0% (kg)
CA50	10.0	101.6	9	12 m	62.6
	12.5	15.9	2	12 m	15.3
CA60	5.0	198.3	17	12 m	29.8
PESO TOTAL (kg)					
CA50	77.9				
CA60	29.8				

Volume de concreto (C-30) = 1.26 m³
Área de forma = 25.20 m²

P1=P2=P3=P5=P6



APROVAÇÃO:

MANGA 1923

TÍTULO:	FINALIDADE:
PROJETO ESTRUTURAL	AMPLIAÇÃO FARMÁCIA DE MINAS

RESPONSÁVEL TÉCNICO (RT):	CREA-MG:	DATA:
JOÃO ALÍPIO FERREIRA DUTRA DE SOUZA ENGENHEIRO CIVIL	170978/D	MAIO / 2023
	Nº ART:	REVISÃO:
		00

PROPRIETÁRIO:	CONTRATANTE:
PREFEITURA MUNICIPAL DE MANGA CNPJ: 18.270.447/0001-46	PREFEITURA MUNICIPAL DE MANGA CNPJ: 18.270.447/0001-46

ENDEREÇO DA OBRA:	CIDADE:	CEP:
RUA CONSELHEIRO SARAIVA, SNº, BAIRRO: CENTRO	MANGA - MG	39.460-000

CONTEÚDO:	ESCALAS:	FOLHA Nº:
ELEMENTO ESTRUTURAL: ARMAÇÃO SAPATAS E PILARES	INDICADAS DESENHISTA: JOÃO ALÍPIO	3/5