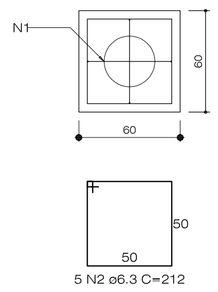
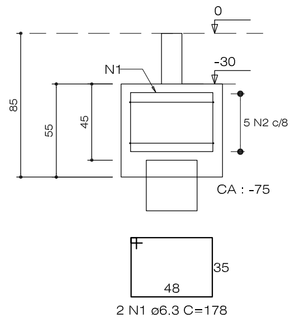
B1=B3=B4=B5=B6=B7=B8=B9=B10=B11=B12=B13
=B14=B17=B18=B19=B20=B21=B22=B25=B26
=B29=B30=B31=B32=B33=B34=B35=B37=B39
=B40=B41=B42=B43=B44=B45=B46=BBA1
1xC30

PLANTA
ESC 1:25



5 N2 ø6.3 C=212

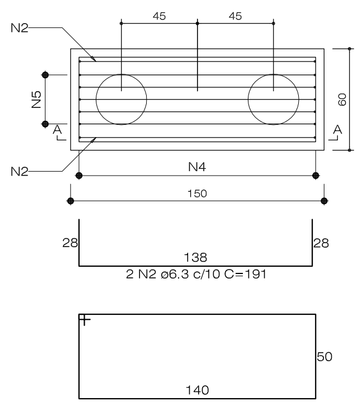
CORTE
ESC 1:25



2 N1 ø6.3 C=178

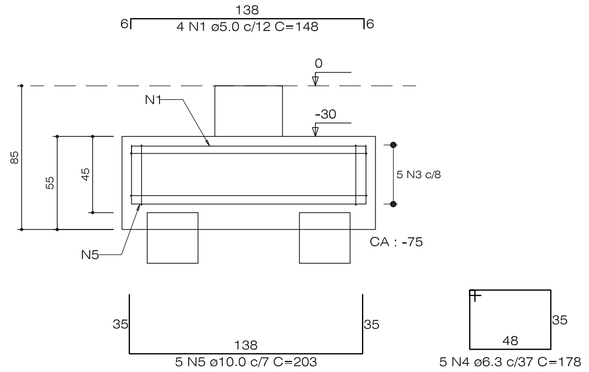
B2=B15=B36=B38
2xC30

PLANTA
ESC 1:25



5 N3 ø6.3 C=392

CORTE A-A
ESC 1:25



5 N4 ø6.3 c/37 C=178

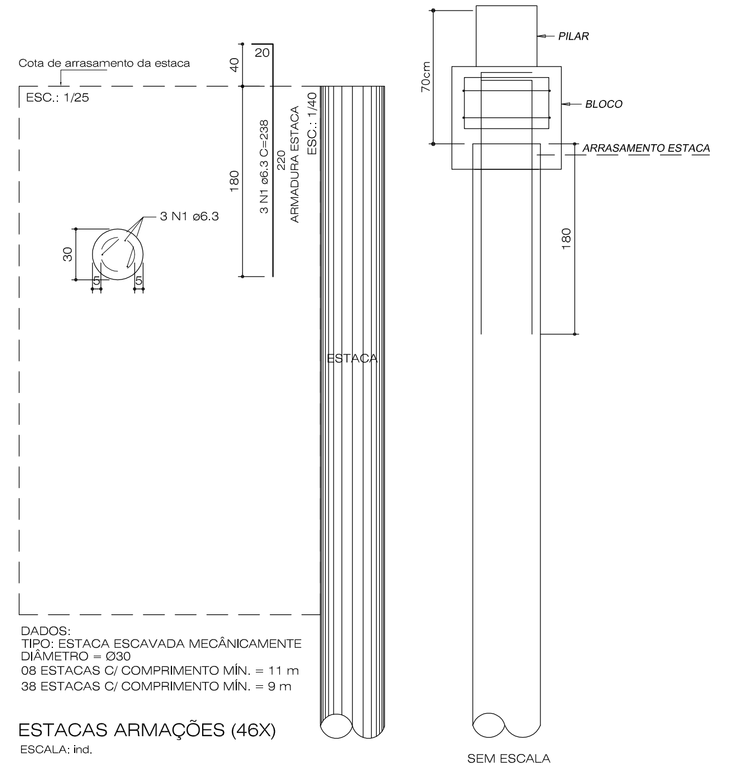
Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
4xB15	CA60	1	5.0	16	148	2368
	CA50	2	6.3	8	191	1528
	CA50	3	6.3	20	392	7840
	CA50	4	6.3	20	178	3560
	CA50	5	10.0	20	203	4060
38xB41	CA50	1	6.3	76	178	13528
	CA50	2	6.3	190	212	40280

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	667.4	179.6
	10.0	40.6	27.5
CA60	5.0	23.7	4
PESO TOTAL (kg)			
CA50	207.2		
CA60	4		

Volume de concreto (C-25) = 9.14 m³
Área de forma = 59.4 m²



DADOS:
TIPO: ESTACA ESCAVADA MECÂNICAMENTE
DIÂMETRO = Ø30
08 ESTACAS C/ COMPRIMENTO MÍN. = 11 m
38 ESTACAS C/ COMPRIMENTO MÍN. = 9 m

ESTACAS ARMAÇÕES (46X)
ESCALA: ind.

SEM ESCALA

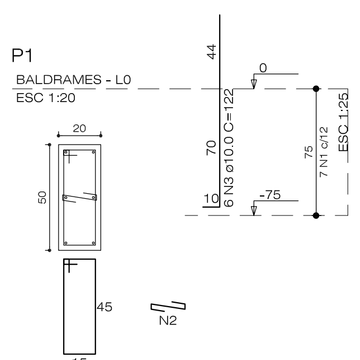
Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
46xEST ARM	CA50	1	6.3	138	238	32844

Resumo do aço

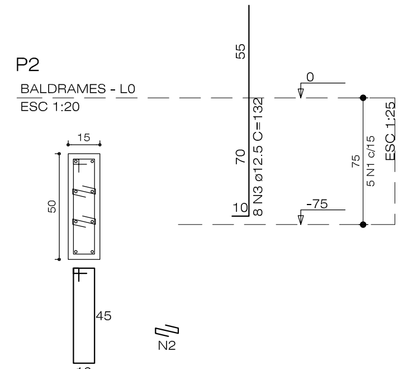
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	328.5	88.4
PESO TOTAL (kg)			
CA50	88.4		

P1
BALDRAMES - L0
ESC 1:20



7 N1 ø5.0 C=132
7 N2 ø5.0 C=30

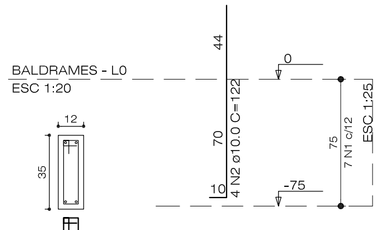
P2
BALDRAMES - L0
ESC 1:20



5 N1 ø5.0 C=122
2x5 N2 ø5.0 C=25

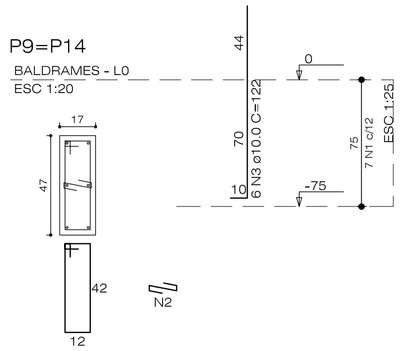
P3=P5=P6=P7=P8=P22=P41=P42
P4=P10=P11=P12=P13=P17=P18
P19=P25=P26=P29=P32=P33
P34=P35=P40=P43=P44

BALDRAMES - L0
ESC 1:20



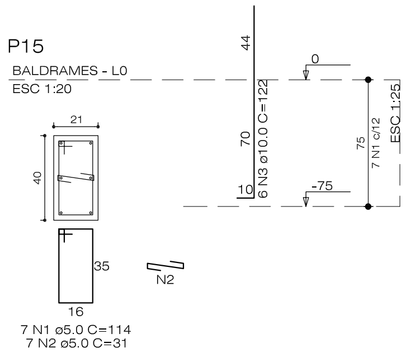
7 N1 ø5.0 C=86

P9=P14
BALDRAMES - L0
ESC 1:20



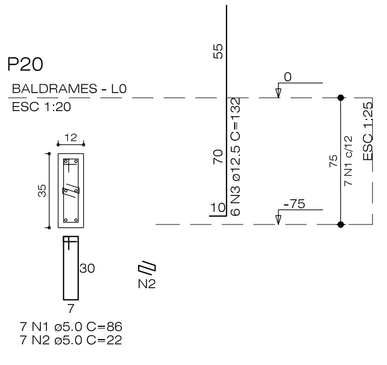
7 N1 ø5.0 C=120
7 N2 ø5.0 C=27

P15
BALDRAMES - L0
ESC 1:20



7 N1 ø5.0 C=114
7 N2 ø5.0 C=31

P20
BALDRAMES - L0
ESC 1:20

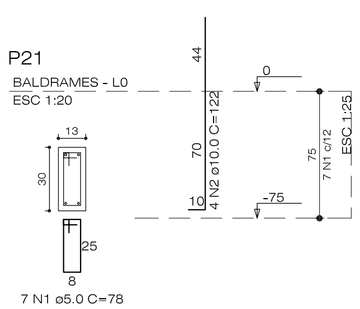


7 N1 ø5.0 C=86
7 N2 ø5.0 C=22

Relação do aço

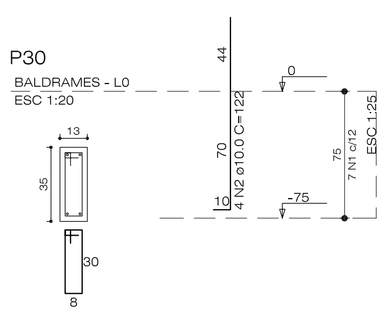
ELEMENTO	AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
P1	CA60	1	5.0	7	132	924
	CA60	2	5.0	7	30	210
	CA50	3	10.0	6	122	732
P2	CA60	1	5.0	5	122	610
	CA60	2	5.0	10	25	250
	CA50	3	12.5	8	132	1056
26xP4	CA60	1	5.0	182	86	15652
	CA50	2	10.0	104	122	12688
2xP9	CA60	1	5.0	14	120	1680
	CA60	2	5.0	14	27	378
	CA50	3	10.0	12	122	1464
P15	CA60	1	5.0	7	114	798
	CA60	2	5.0	7	31	217
	CA50	3	10.0	6	122	732
P20	CA60	1	5.0	7	86	602
	CA60	2	5.0	7	22	154
	CA50	3	12.5	6	132	792
P21	CA60	1	5.0	7	78	546
	CA50	2	10.0	4	122	488
P30	CA60	1	5.0	7	88	616
	CA50	2	10.0	4	122	488
P31	CA60	1	5.0	7	78	546
	CA50	2	10.0	4	122	488
2xP36	CA60	1	5.0	14	112	1568
	CA60	2	5.0	14	30	420
	CA50	3	10.0	12	122	1464
P37	CA60	1	5.0	7	78	546
	CA50	2	10.0	4	122	488
3xP39	CA60	1	5.0	21	98	2058
	CA50	2	10.0	12	122	1464

P21
BALDRAMES - L0
ESC 1:20



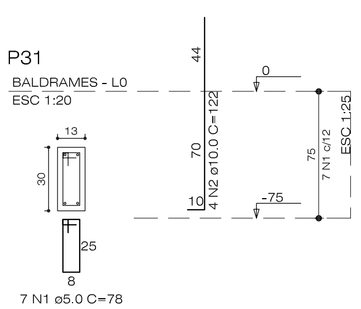
7 N1 ø5.0 C=78

P30
BALDRAMES - L0
ESC 1:20



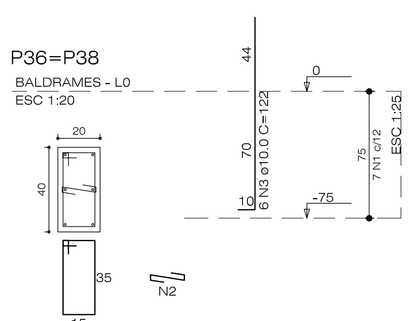
7 N1 ø5.0 C=88

P31
BALDRAMES - L0
ESC 1:20



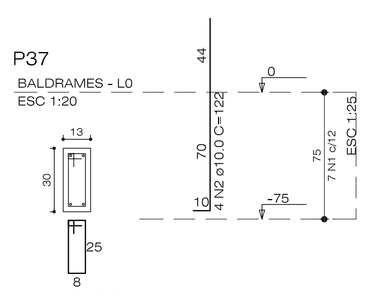
7 N1 ø5.0 C=78

P36=P38
BALDRAMES - L0
ESC 1:20



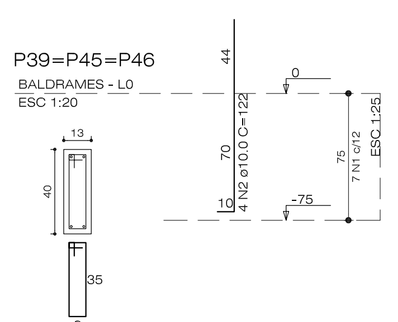
7 N1 ø5.0 C=112
7 N2 ø5.0 C=30

P37
BALDRAMES - L0
ESC 1:20



7 N1 ø5.0 C=78

P39=P45=P46
BALDRAMES - L0
ESC 1:20



7 N1 ø5.0 C=98

Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
P1	CA60	1	5.0	7	132	924
	CA60	2	5.0	7	30	210
	CA50	3	10.0	6	122	732
P2	CA60	1	5.0	5	122	610
	CA60	2	5.0	10	25	250
	CA50	3	12.5	8	132	1056
26xP4	CA60	1	5.0	182	86	15652
	CA50	2	10.0	104	122	12688
2xP9	CA60	1	5.0	14	120	1680
	CA60	2	5.0	14	27	378
	CA50	3	10.0	12	122	1464
P15	CA60	1	5.0	7	114	798
	CA60	2	5.0	7	31	217
	CA50	3	10.0	6	122	732
P20	CA60	1	5.0	7	86	602
	CA60	2	5.0	7	22	154
	CA50	3	12.5	6	132	792
P21	CA60	1	5.0	7	78	546
	CA50	2	10.0	4	122	488
P30	CA60	1	5.0	7	88	616
	CA50	2	10.0	4	122	488
P31	CA60	1	5.0	7	78	546
	CA50	2	10.0	4	122	488
2xP36	CA60	1	5.0	14	112	1568
	CA60	2	5.0	14	30	420
	CA50	3	10.0	12	122	1464
P37	CA60	1	5.0	7	78	546
	CA50	2	10.0	4	122	488
3xP39	CA60	1	5.0	21	98	2058
	CA50	2	10.0	12	122	1464

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	205	139
	12.5	18.5	19.6
CA60	5.0	277.8	47.1
PESO TOTAL (kg)			
CA50	158.6		
CA60	47.1		

Volume de concreto (C-25) = 1.49 m³
Área de forma = 30.91 m²

Nº	DATA	REVISÃO	EXECUTADO	APROVADO	DESENHOS DE REFERÊNCIA	NÚMEROS

CONTRATANTE
VISTO E ACEITO

ESTA ACEITAÇÃO NÃO ISENTA A CONTRATADA DAS RESPONSABILIDADES E OBRIGAÇÕES ESTABELECIDAS NO CONTRATO

ANALISADO
ACEITO
VISTO

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Rua Jatai, 711 - Nova Bandeirantes - CEP 79.086 - 330
Campo Grande - MS - Fone: (67) 3042.9684
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RESP. TÉCNICO
Engº Civil - Walter Radich Júnior
CREA nº 8.039/D - MS
VISTO
RESP. TÉCNICO
Engº Civil - Luiz André Radich
CREA nº 15.500/D - MS
VISTO

TRIBUNAL REGIONAL ELEITORAL MATO GROSSO DO SUL

CARTÓRIO ELEITORAL - CASSILÂNDIA/MS
ARMAÇÃO DOS BLOCOS DE COROAMENTO DAS ESTACAS
ARMAÇÃO ARRANQUE DOS PILARES

REVISÃO 0

DATA: AGOSTO/2016
ESCALA: INDICADA
ART: 1320160003214
PRANCHA Nº: 11/20
LOCAL: RUA OLIMPIO DIAS DOS SANTOS - QUADRA "F" - LOTES 01,04 e 28 LOTEAMENTO ALTO IZANÓPOLIS

CONFERIR MEDIDAS NO LOCAL DA OBRA