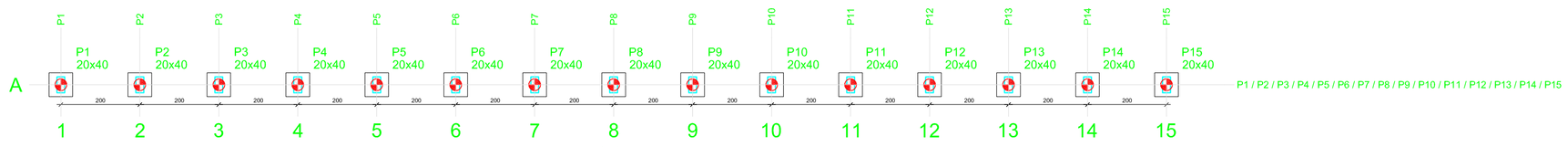


Planta de locação
Esc 1:100

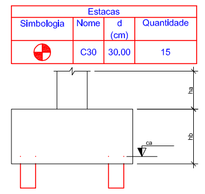
Pilar			Fundação				Bloco			
Nome	Seção	Carga Máx.	Lado B	Lado H	h0 / ha	h1 / hb	ne	Estaca	ca	cp
P1	20x40	0,6	60	60	0	70	1	C30	-55	-205
P2	20x40	0,9	60	60	0	70	1	C30	-55	-205
P3	20x40	0,9	60	60	0	70	1	C30	-55	-205
P4	20x40	0,9	60	60	0	70	1	C30	-55	-205
P5	20x40	0,9	60	60	0	70	1	C30	-55	-205
P6	20x40	0,9	60	60	0	70	1	C30	-55	-205
P7	20x40	0,9	60	60	0	70	1	C30	-55	-205
P8	20x40	0,9	60	60	0	70	1	C30	-55	-205
P9	20x40	0,9	60	60	0	70	1	C30	-55	-205
P10	20x40	0,9	60	60	0	70	1	C30	-55	-205
P11	20x40	0,9	60	60	0	70	1	C30	-55	-205
P12	20x40	0,9	60	60	0	70	1	C30	-55	-205
P13	20x40	0,9	60	60	0	70	1	C30	-55	-205
P14	20x40	0,9	60	60	0	70	1	C30	-55	-205
P15	20x40	0,6	60	60	0	70	1	C30	-55	-205

Profundidade de escavação das estacas

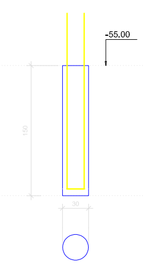
B1=B2=B3=B4=B5=B6=B7
B8=B9=B10=B11=B12
B13=B14=B15 (1xC30)

Legenda dos blocos
Esc 1:100

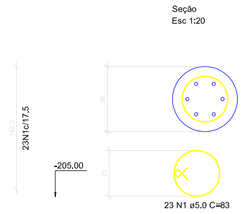
Estacas			
Simbologia	Nome	d (cm)	Quantidade
	C30	30,00	15



E1====E15
Corte
Esc 1:50



Seção
Esc 1:20



RELAÇÃO DO AÇO

15xE15

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	8,0	345	83	28635
CA60	2	5,0	60	220	13200

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT
CA50	8,0	286,39	38	12 m
CA60	5,0		26	12 m

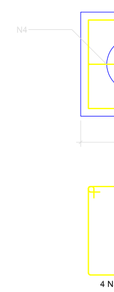
PESO TOTAL (kg)

CA50	88,3
CA60	48,0

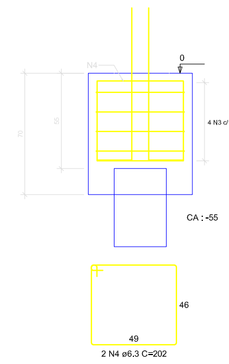
Volume de concreto (C-25) = 3,6 m³

B1=B2=B3=B4=B5=B6=B7=B8=B9=B10=B11=B12 =B13=B14=B15
1xC30

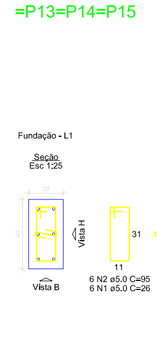
Planta
Esc 1:25



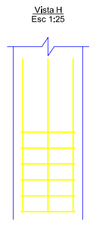
Corte
Esc 1:25



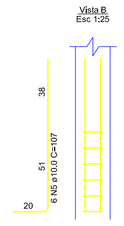
P1=P2=P3=P4=P5=P6=P7= =P8=P9=P10=P11=P12= =P13=P14=P15



Vista H
Esc 1:25



Vista B
Esc 1:25



RELAÇÃO DO AÇO

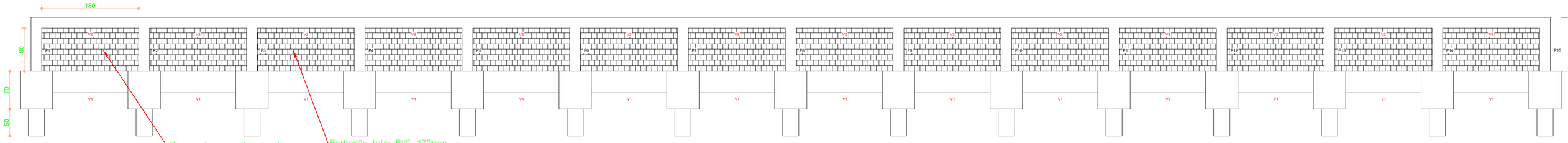
15xB15

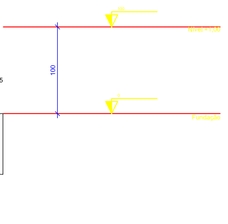
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	6,3	90	107	9630
CA50	2	6,3	96	79	7584
	3	6,3	96	79	7584
CA50	4	6,3	36	202	7272
	5	10,0	90	202	18180

RESUMO DO AÇO

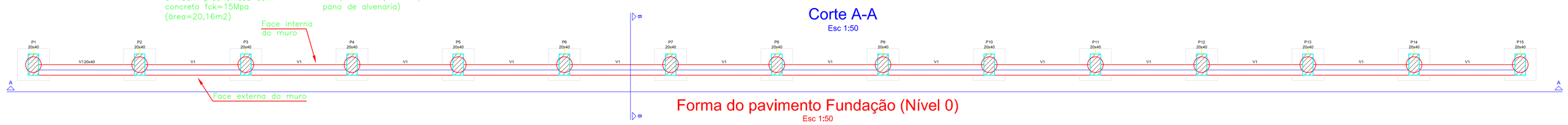
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT
CA50	6,3	1592,2	18	12 m
CA50	10,0	181,5	16	12 m
PESO TOTAL (kg)		139,9	15	12 m
CA50	116,5			
CA60	10,5			

Volume de concreto (C-25) = 4,26 m³
Área de forma = 35,10 m²

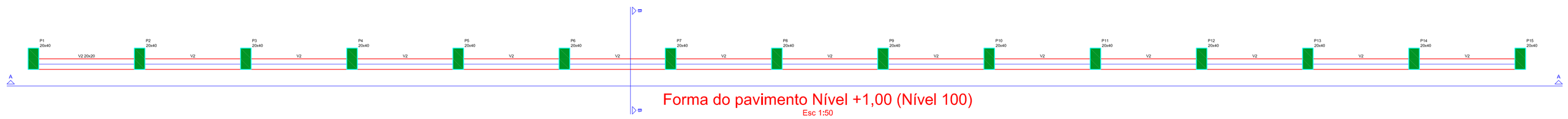




Corte A-A
Esc 1:50



Forma do pavimento Fundação (Nível 0)
Esc 1:50



Forma do pavimento Nível +1,00 (Nível 100)
Esc 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	20x40	0	0

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	20x40	0	0
P2	20x40	0	0
P3	20x40	0	0
P4	20x40	0	0
P5	20x40	0	0
P6	20x40	0	0
P7	20x40	0	0
P8	20x40	0	0
P9	20x40	0	0
P10	20x40	0	0
P11	20x40	0	0
P12	20x40	0	0
P13	20x40	0	0
P14	20x40	0	0
P15	20x40	0	0

Legenda dos pilares
Pilar que passa

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V2	20x20	0	100

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	20x40	0	100
P2	20x40	0	100
P3	20x40	0	100
P4	20x40	0	100
P5	20x40	0	100
P6	20x40	0	100
P7	20x40	0	100
P8	20x40	0	100
P9	20x40	0	100
P10	20x40	0	100
P11	20x40	0	100
P12	20x40	0	100
P13	20x40	0	100
P14	20x40	0	100
P15	20x40	0	100

Legenda dos pilares
Pilar que morre

Corte B-B
Esc 1:50

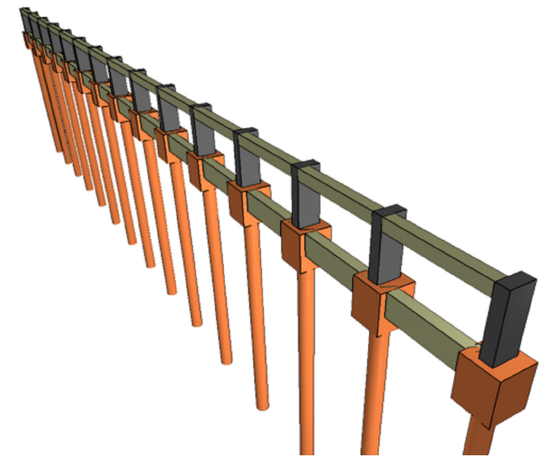


Imagem 3D - Muro Arrimo
Sem Escala

MURO_São José
Fundação
V1 (20 x 40)
Esc 1:50

Seção A=A
Esc 1:50

RELAÇÃO DO AÇO

V1

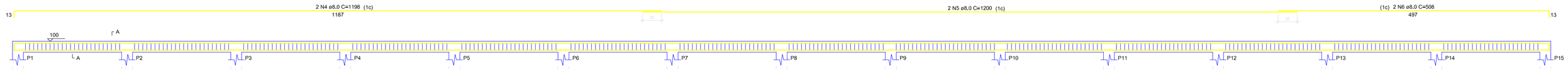
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	10,0	2	1198	2396
CA50	2	10,0	2	1014	4056
	3	10,0	2	814	3256
	4	10,0	2	1198	2396
	5	10,0	2	1200	2400
	6	10,0	2	594	1188

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT
CA50	10,0	119,7	11	12 m
CA50	6,0	134,8	13	12 m
PESO TOTAL (kg)				
CA50	73,5			
CA60	22,0			

Volume de concreto (C-25) = 2,26 m³
Área de forma = 28,20 m²

MURO_São José
Nível +1,00
V2 (20 x 20)
Esc 1:50



Seção A=A
Esc 1:50

RELAÇÃO DO AÇO

V2

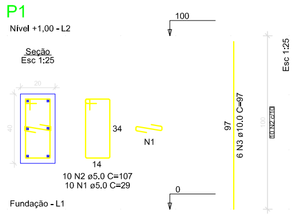
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	8,0	337	67	22579
CA50	2	8,0	4	1014	4056
	3	8,0	4	814	3256
	4	8,0	4	1198	4792
	5	8,0	2	1200	2400
	6	8,0	2	508	1016

RESUMO DO AÇO

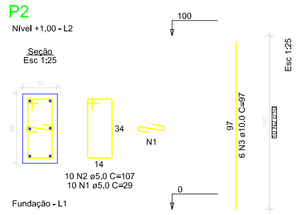
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT
CA50	8,0	142	17	12 m
CA60	5,0	225,6	21	12 m
PESO TOTAL (kg)				
CA50	69,9			
CA60	30,3			

Volume de concreto (C-25) = 3,53 m³
Área de forma = 16,99 m²

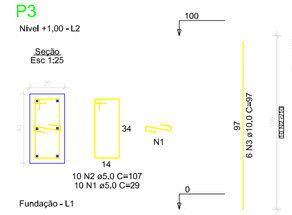
P1
Nível +1,00 - L2



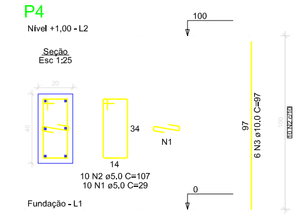
P2
Nível +1,00 - L2



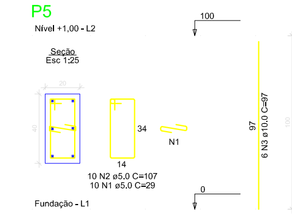
P3
Nível +1,00 - L2



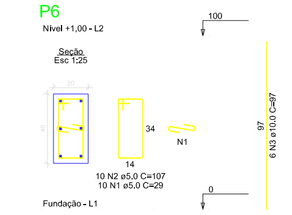
P4
Nível +1,00 - L2



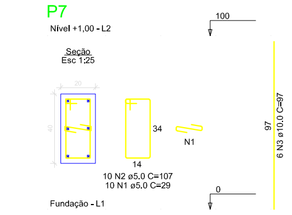
P5
Nível +1,00 - L2



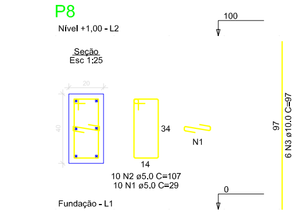
P6
Nível +1,00 - L2



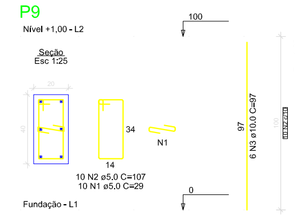
P7
Nível +1,00 - L2



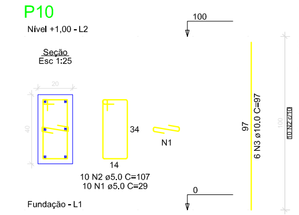
P8
Nível +1,00 - L2



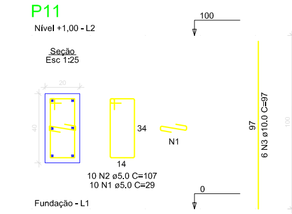
P9
Nível +1,00 - L2



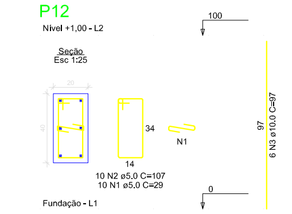
P10
Nível +1,00 - L2



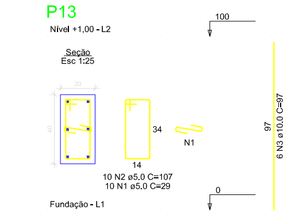
P11
Nível +1,00 - L2



P12
Nível +1,00 - L2



P13
Nível +1,00 - L2



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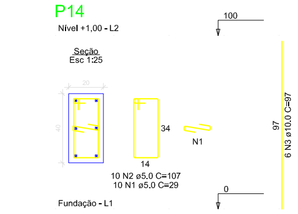
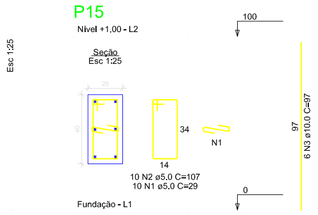
Nível +1,00 - L2



P15
Nível +1,00 - L2



Características dos materiais
Aço
(kg/m³)
Aço 250 7850

ProSen Projetos & Serviços de Engenharia Ltda.	
Prefeitura Municipal Santa Cruz do Escalvado ESTADO DE MINAS GERAIS Administração 2021-2024	
OBJETO Execução de Calçamento em Bloquete e Muros de Arrimo	NO. OPERAÇÃO -------- DATA Fev / 2022
RESPONSÁVEL TÉCNICO PELO PROJETO Engº Civil WILSON DIAS DA FONSECA JR.	CREA 61.924 / D
PREFEITO MUNICIPAL GILMAR DE PAULA LIMA	CPF 697.293.526-15
CONTÉM Detalhes Diversos	ESCALA Indicadas
LOCALIZAÇÃO Rua "B", Distrito de São José, Santa Cruz Escalvado	FOLHA 02/03
PROGRAMA RECURSOS PRÓPRIOS	

Formato A1