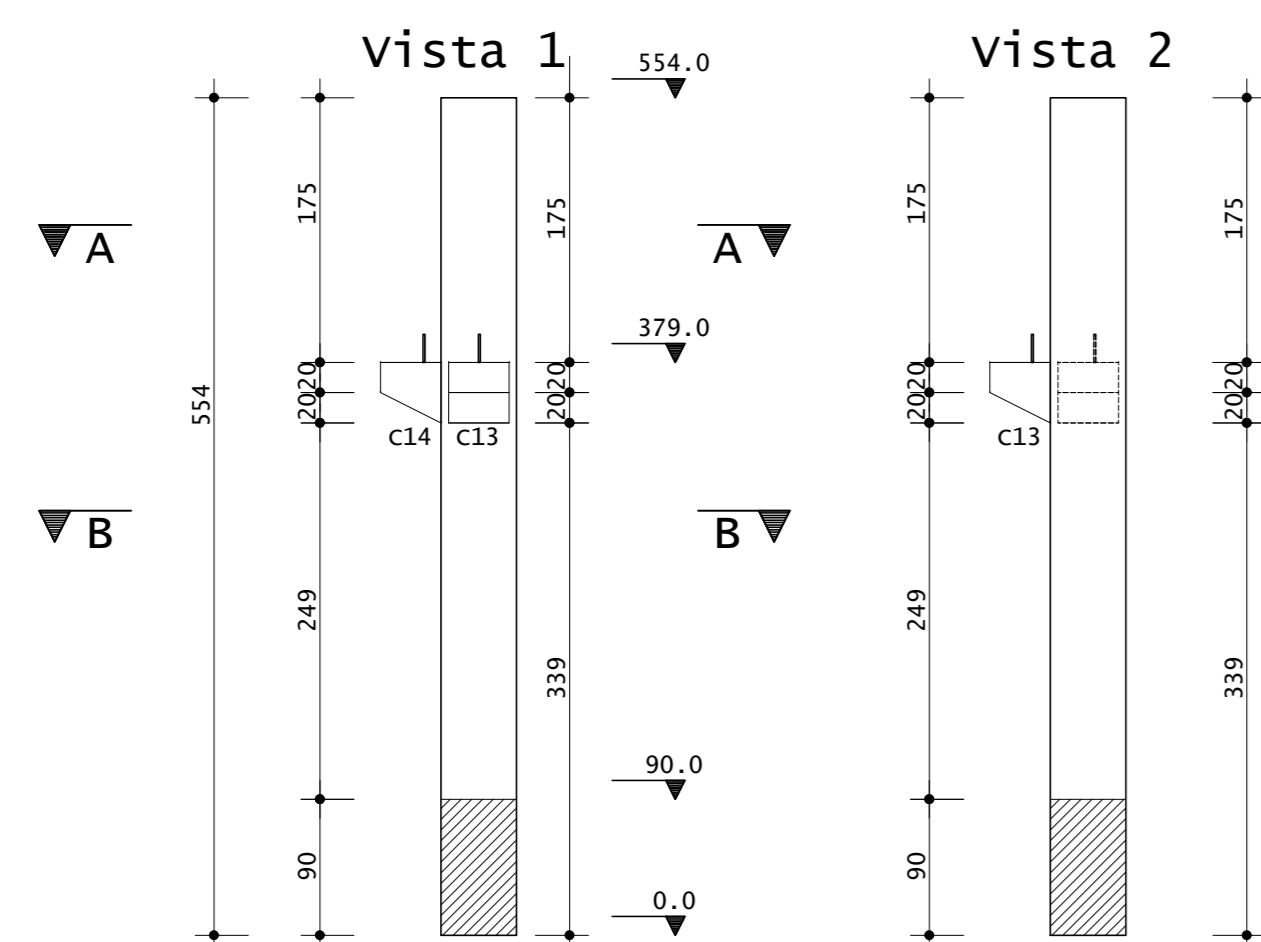
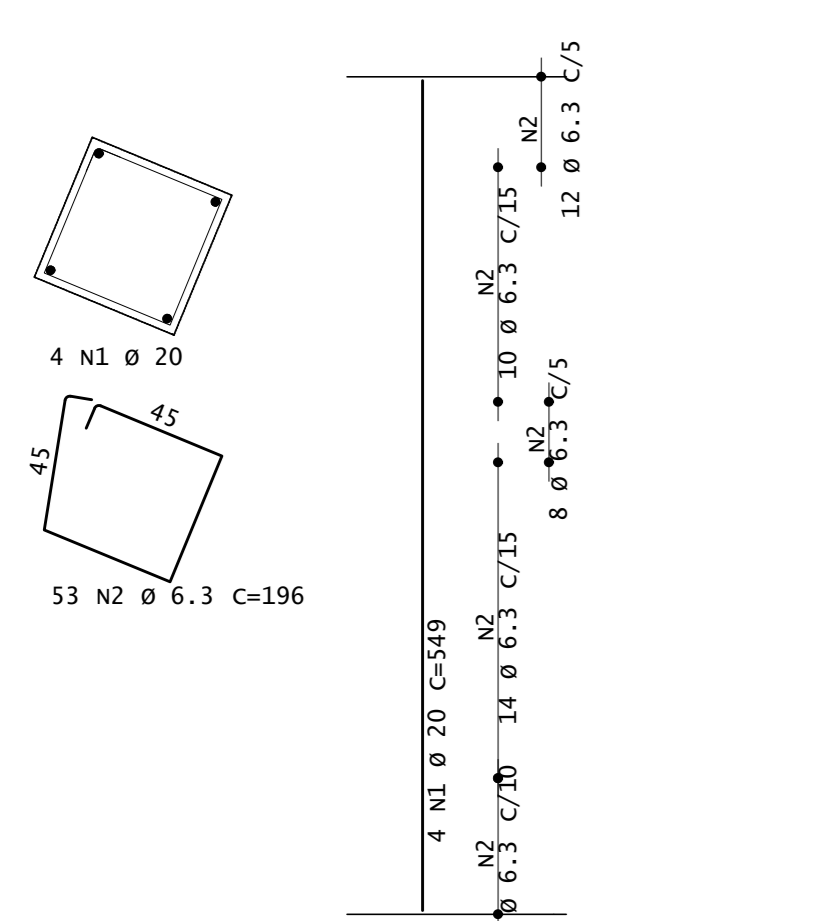


PP55 (P121)

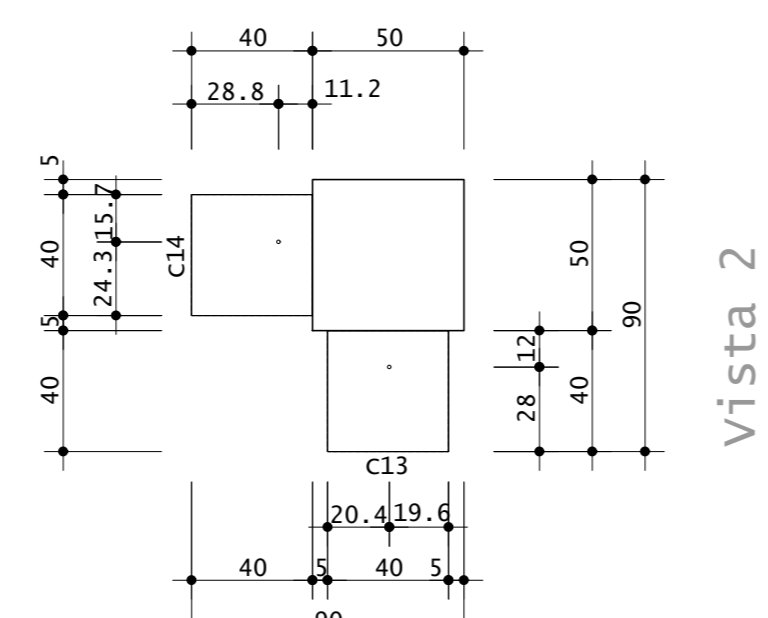


AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	TOTAL (cm)	
PP55	S0A	1	20	4	549	2196
	S0A	2	6.3	53	196	10388

RESUMO DE AÇO			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
S0A	6.3	104	26
S0A	20	22	55
Peso Total			81 kg

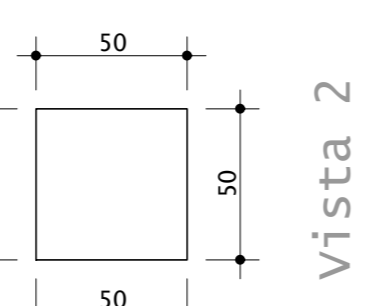
Quant	Volume unit m3	Volume total m3	Peso unit tf	Peso total tf
1	1.48	1.48	3.70	3.70

Corte A-A



Vista 1

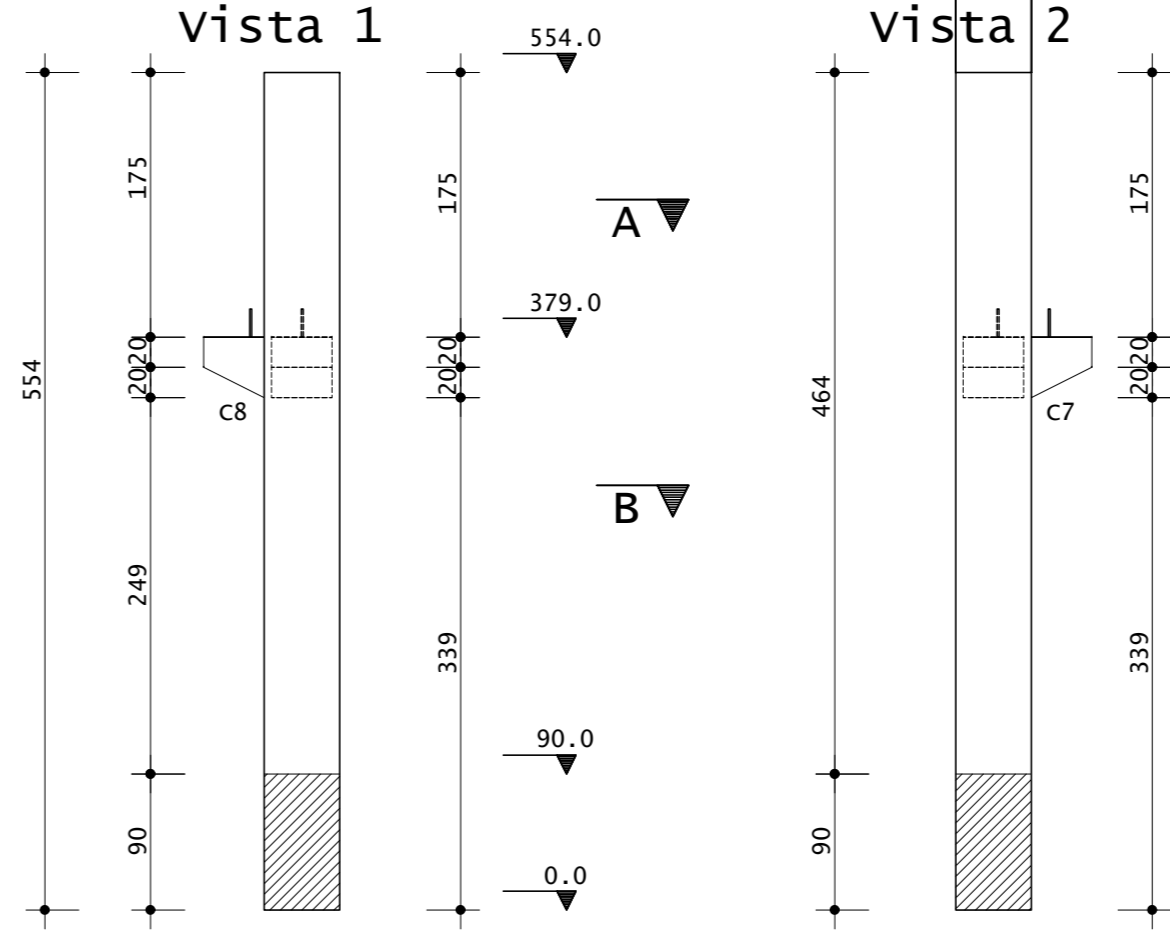
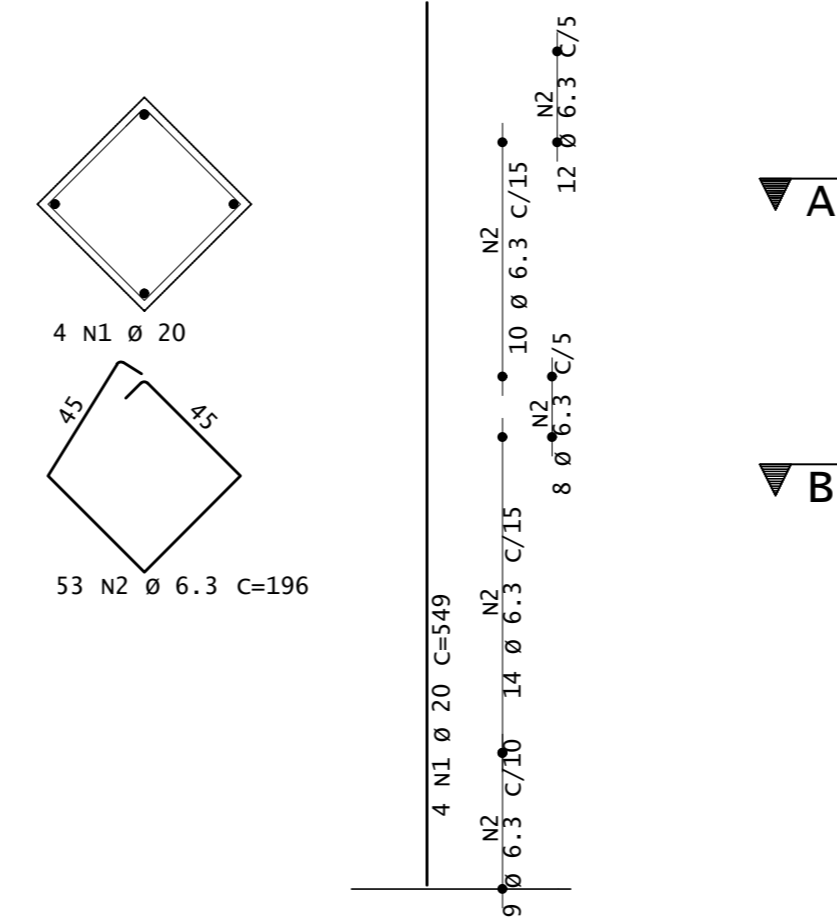
Corte B-B



Vista 1

Vista 2

PP58 (P131)

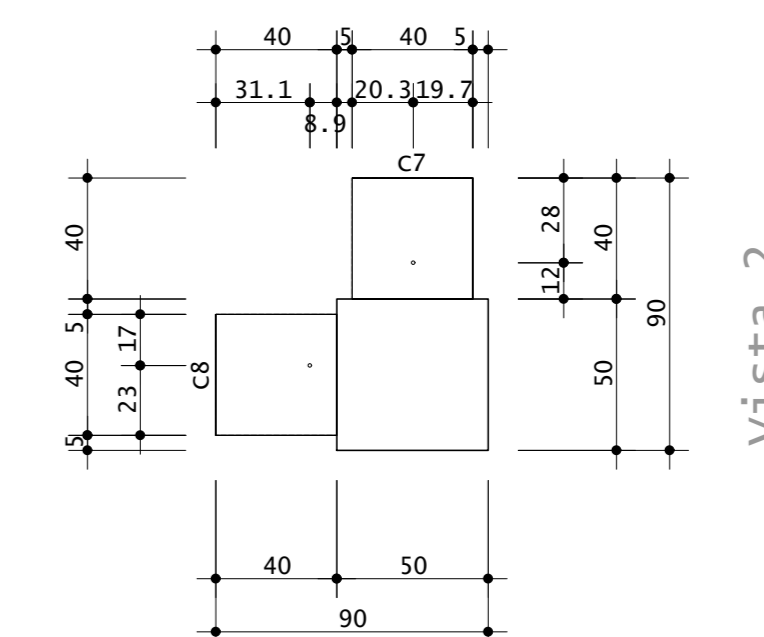


AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	TOTAL (cm)	
PP58	S0A	1	20	4	549	2196
	S0A	2	6.3	53	196	10388

RESUMO DE AÇO			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
S0A	6.3	104	26
S0A	20	22	55
Peso Total			81 kg

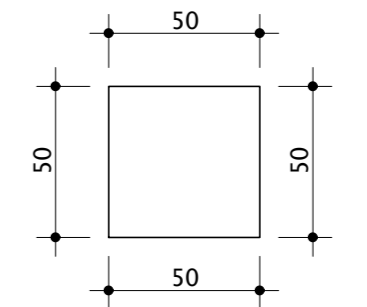
Quant	Volume unit m3	Volume total m3	Peso unit tf	Peso total tf
1	1.48	1.48	3.70	3.70

Corte A-A



Vista 1

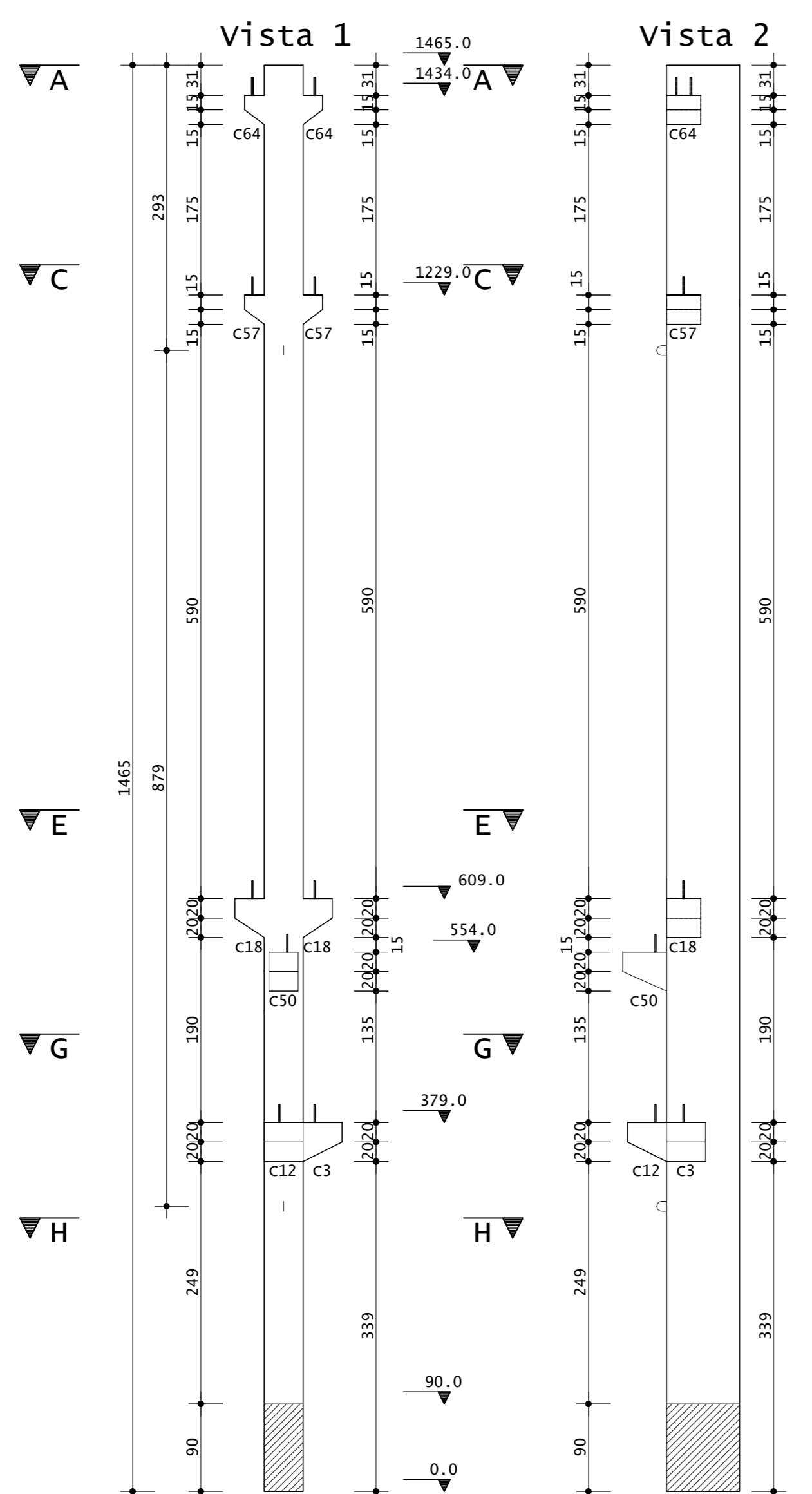
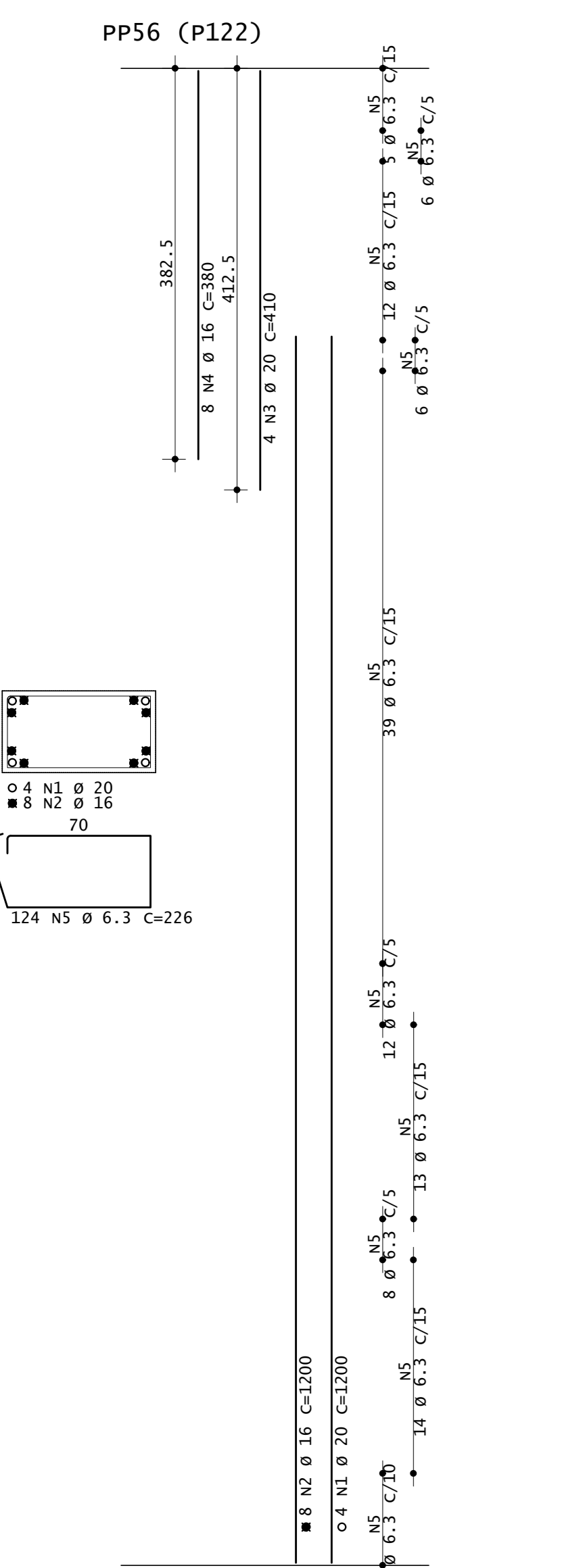
Corte B-B



Vista 1

Vista 2

PP56 (P122)

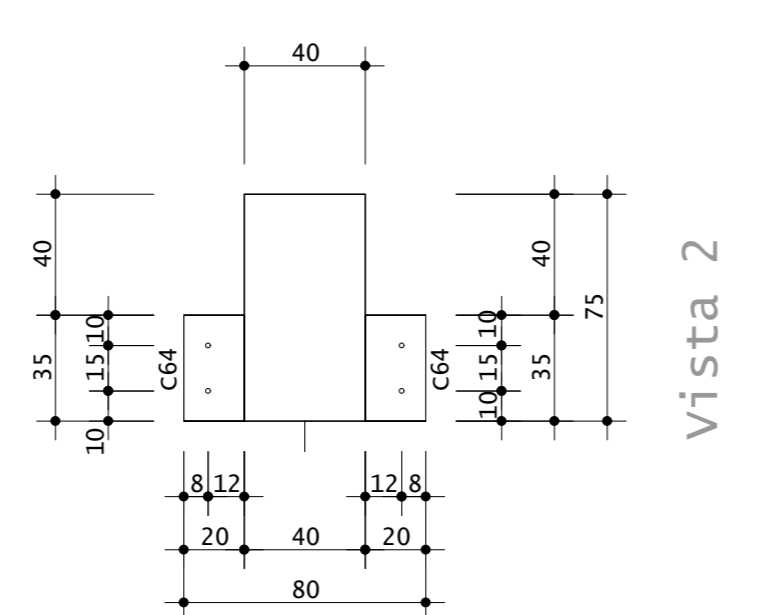


AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	TOTAL (cm)	
PP56	S0A	1	20	4	3200	4800
	S0A	2	16	1200	1920	3600
	S0A	3	20	4	410	1640
	S0A	4	16	124	380	1940
	S0A	5	6.3	124	226	28024

RESUMO DE AÇO			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
S0A	6.3	480	69
S0A	16	126	199
S0A	20	64	159
Peso Total			427 kg

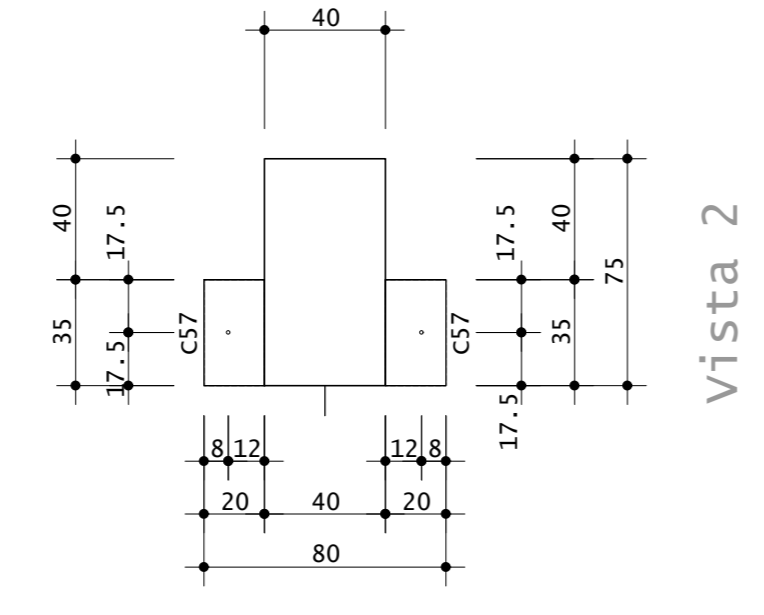
Quant	Volume unit m3	Volume total m3	Peso unit tf	Peso total tf
1	4.66	4.66	11.64	11.64

Corte A-A



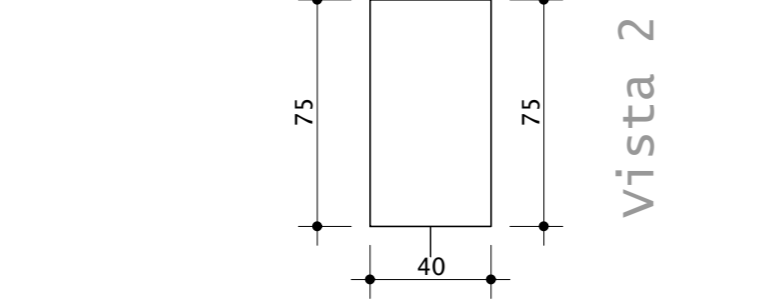
Vista 1

Corte C-C



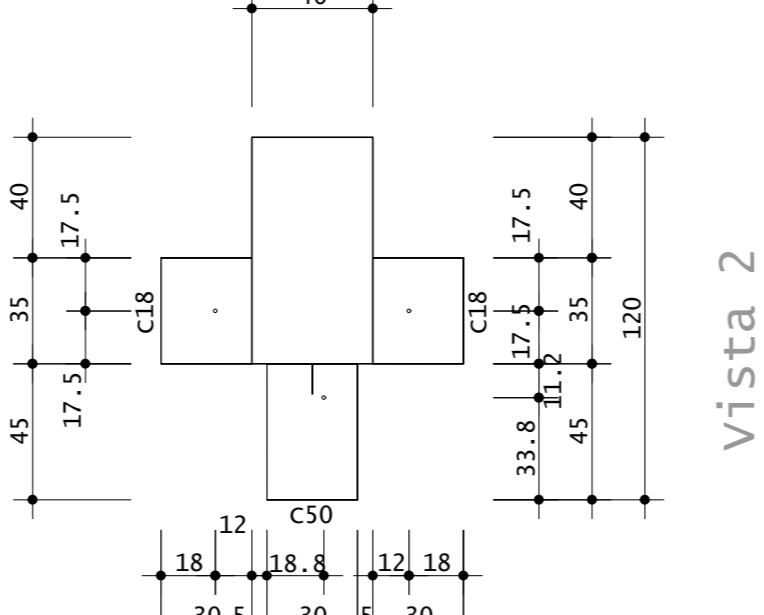
Vista 1

Corte H-H



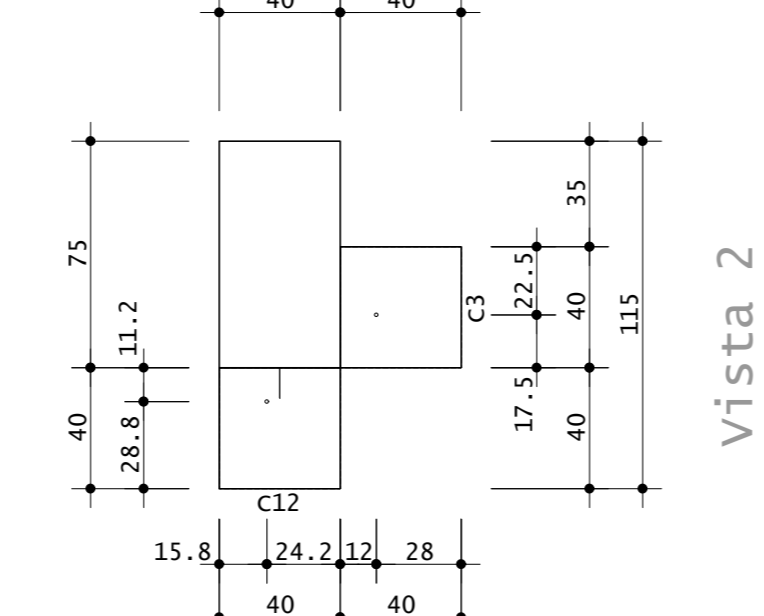
Vista 1

Corte E-E



Vista 1

Corte G-G



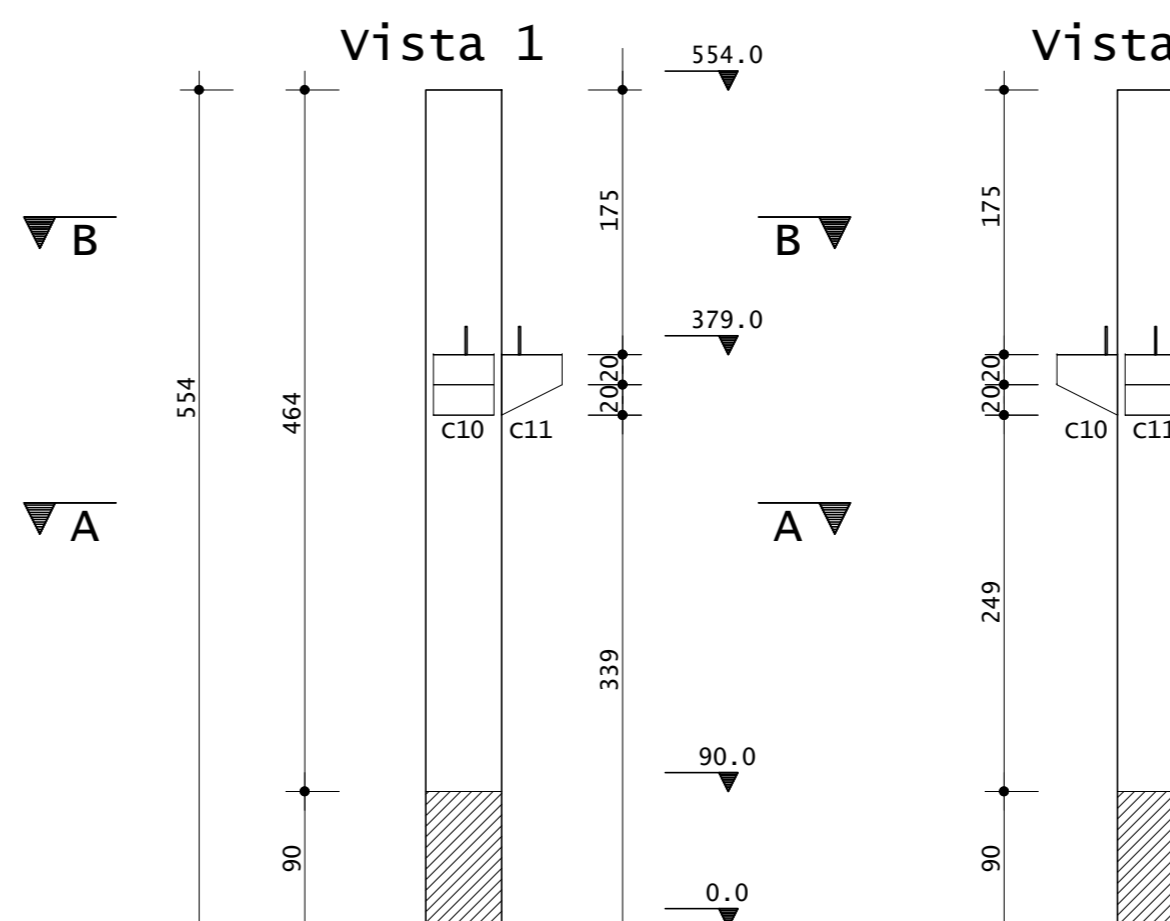
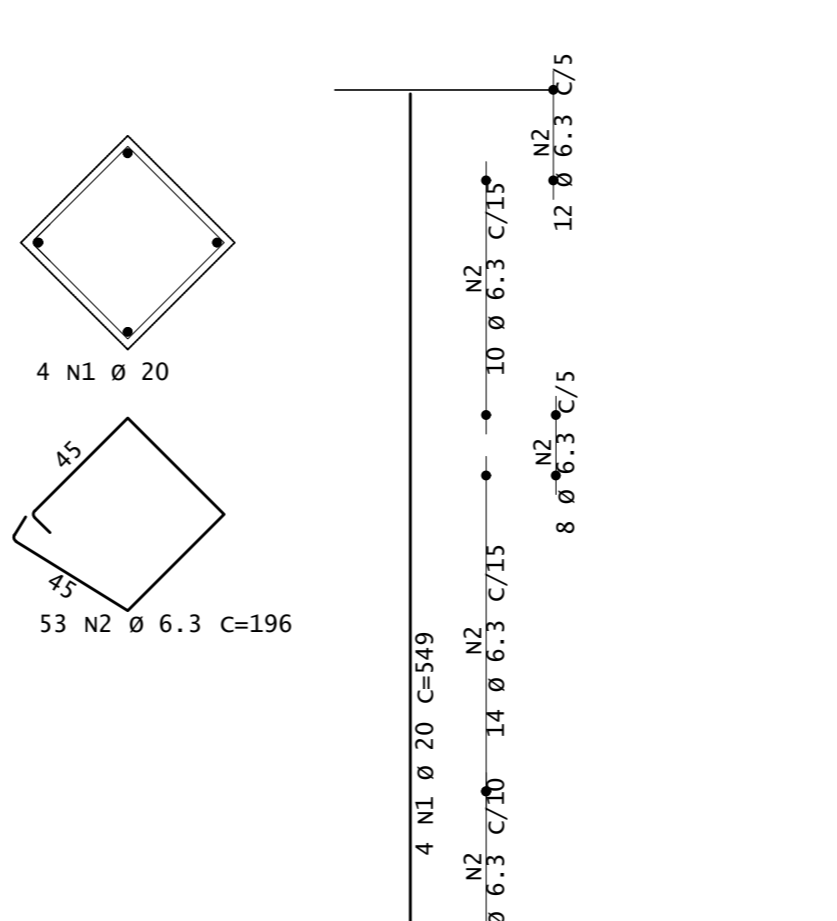
Vista 1

Vista 2

Vista 2

Vista 2

PP59 (P132)

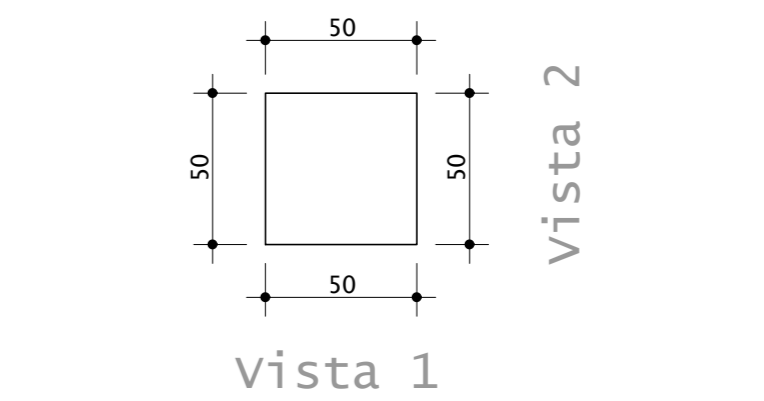


AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	TOTAL (cm)	
PP59	S0A	1	20	4	549	2196
	S0A	2	6.3	53	196	10388

RESUMO DE AÇO			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
S0A	6.3	104	26
S0A	20	22	55
Peso Total			81 kg

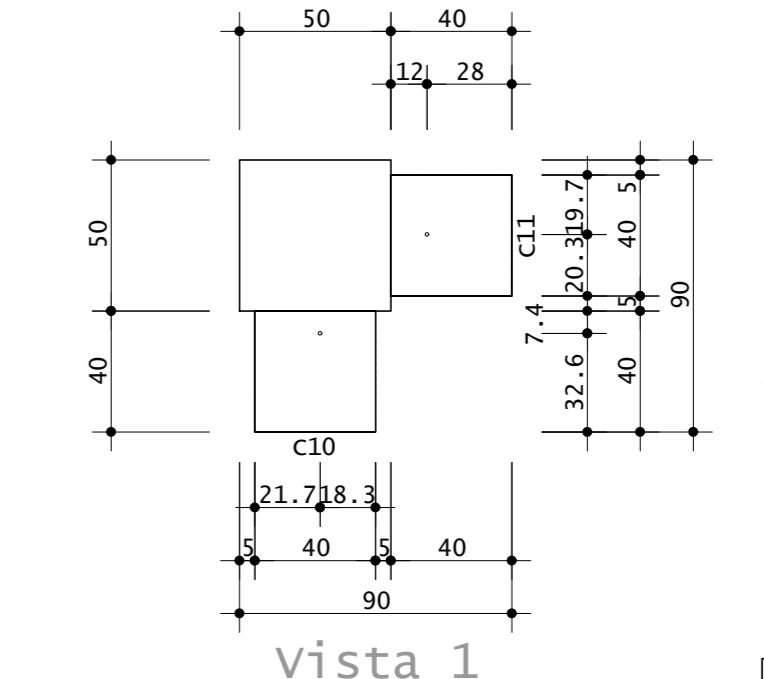
Quant	Volume unit m3	Volume total m3	Peso unit tf	Peso total tf
1	1.48	1.48	3.70	3.70

Corte A-A



Vista 1

Corte B-B



Vista 1

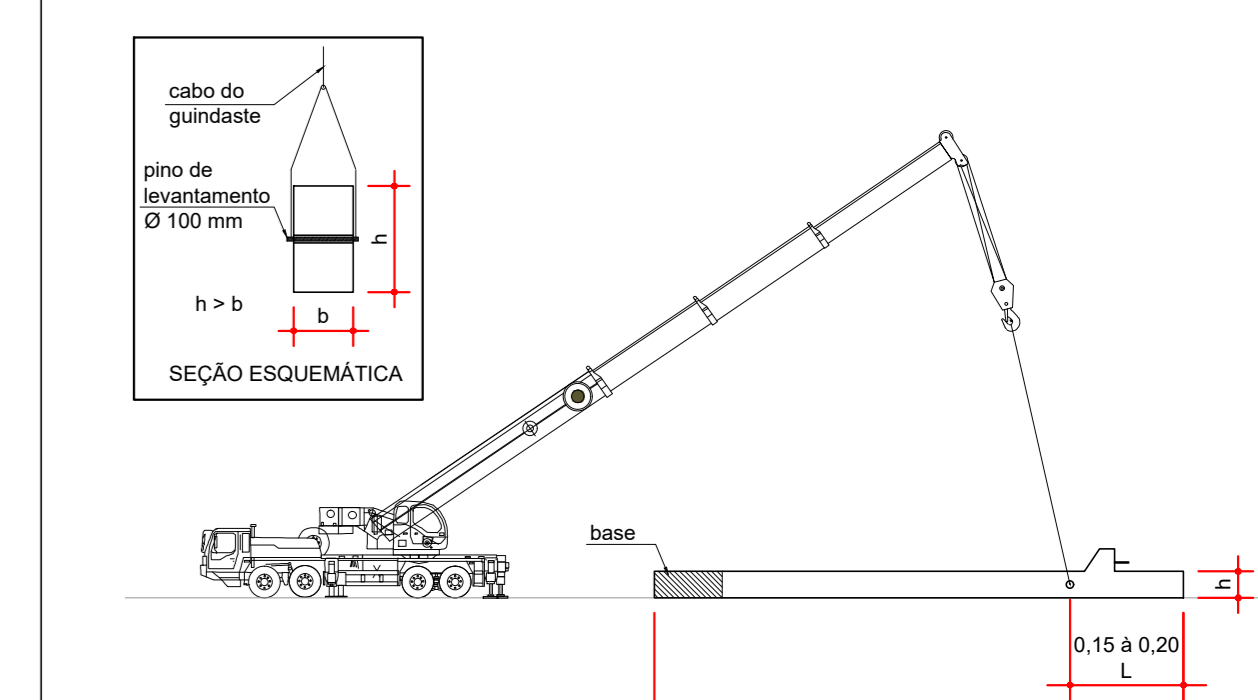
Vista 2

Vista 2

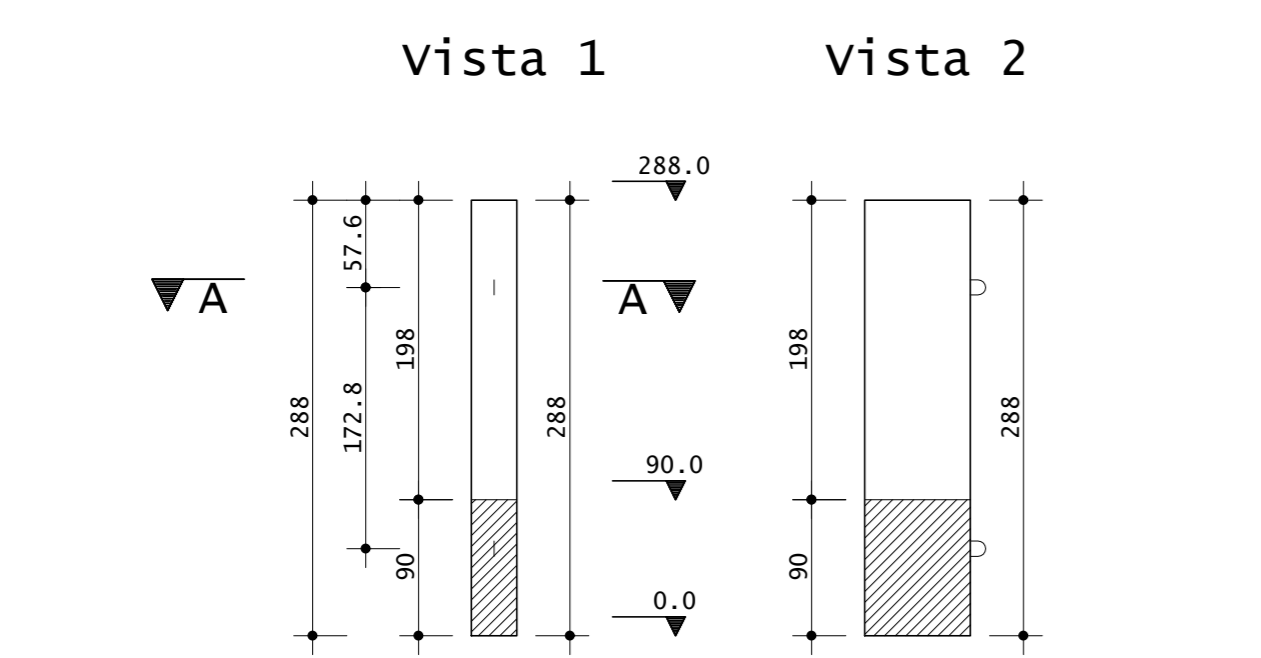
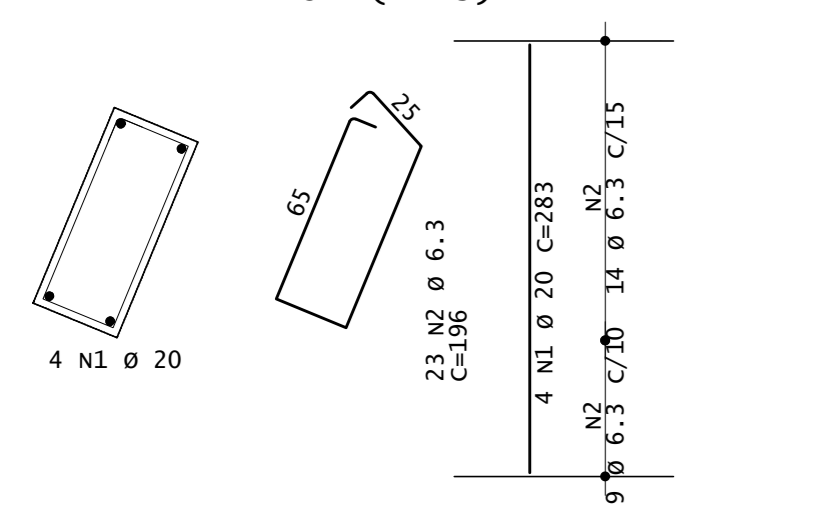
Vista 2

NOTAS DE PROJETO:

- DIMENSÕES EM CM. EXCETO ONDE INDICADO.
- O CONCRETO UTILIZADO DEVERÁ SER DA CLASSE C30 CONFORME DISCRIMINADO NA NBR 6118 (ABNT, 2014).
- AS ARMADURAS DOS CONSÓLOS ESTÃO INDICADAS NAS FRANCHAS COM CÓDIGO D-032-CC-XXX. AS ARMADURAS DOS CONSÓLOS DEVERÃO SER MONTADAS JUNTO COM AS ARMADURAS DOS PILARES.
- IÇAMENTO DOS PILARES:
 - A MOVIMENTAÇÃO DOS PILARES SOMENTE PODERÁ SER REALIZADA APÓS O CONCRETO ATINGIR A RESISTÊNCIA CARACTERÍSTICA (Rk) DE 21 MPa.
 - O IÇAMENTO DAS PEÇAS DEVE OCORRER OBRIGATORIAMENTE NA DIREÇÃO DA MAIOR INÉRCIA, CONFORME INDICADO NO DETALHE DOS PILARES.
- LEVANTAMENTO DOS PILARES:
 - PODERÁ SER PREVISTOS FUROS PARA FACILITAR A OPERAÇÃO DE LEVANTAMENTO DOS PILARES. OS FUROS DEVEM POSSUIR DIÂMETRO DE NO MÁXIMO 100 mm.
 - O FURO DEVERÁ SER REALIZADO DE FORMA QUE A SOLICITAÇÃO DE LEVANTAMENTO OCORRA NA DIREÇÃO DA MAIOR INÉRCIA DOS PILARES.
 - A POSIÇÃO DO FURO DEVE VARIAR ENTRE 15% E 20% DO COMPRIMENTO DO PILAR, MEDIDO A PARTIR DO TOPO.



PP57 (P123)

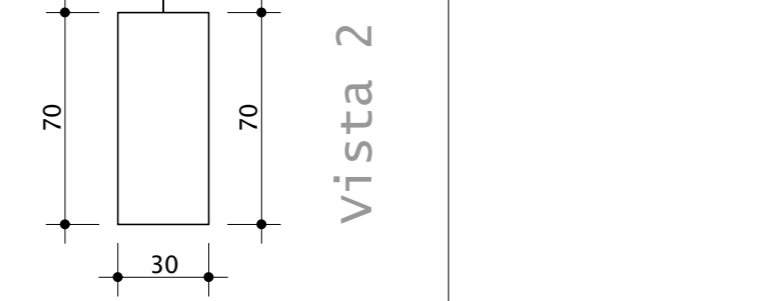


AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	TOTAL (cm)	
PP57	S0A	1	20	4	283	1132
	S0A	2	6.3	23	196	4508

RESUMO DE AÇO			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
S0A	6.3	45	11
S0A	20	11	28
Peso Total			39 kg

Quant	Volume unit m3	Volume total m3	Peso unit tf	Peso total tf
1	0.60	0.60	1.51	1.51

Corte A-A



Vista 1

Vista 2

REVISÃO	DESCRIÇÃO	DESENHO	APROV	DATA
2	REVISÃO DE NOMENCLATURA DOS PILARES	PJC	PJC	28/10/2019
1	REVISÃO GERAL	PJC	PJC	20/09/2019
0	INICIAL	PJC	PJC	19/08/2019

Projeto estrutural
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 ENGP CIVIL - WELINGTON RENANN TAIVARES
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 contato: wrenann@projecalcalc.com.br
 ENGP CIVIL - MATHEUS GALDINO DA SILVA
 CREA-PR 1342910
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Obra
GINÁSIO DE ESPORTES PATO BRANCO
PROJETO EXECUTIVO
ARMADURAS DOS PILARES PP55 A PP59
 Proprietário
 PREFEITURA MUNICIPAL DE PATO BRANCO
 Endereço
 RUA BENJAMIM BORGES, BAIRRO FRARON, PATO BRANCO - PR
 Escala
 INDICADA
 Data
 10/2019
 Número
 D-032-CP-015