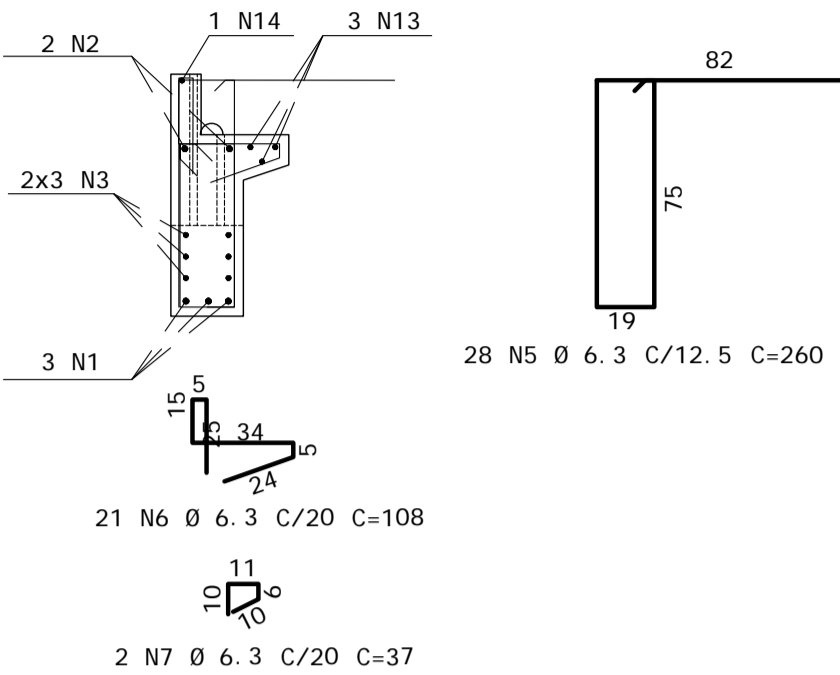


CDHU		
ENG. FERNANDO AREVALLO LLATA	SUP. PROJETOS	
ARQ. ANA MARIA ANTUNES COELHO	GERENTE	
ARQ. LUIZ GUSTAVO DELLA NOCE	LIDER	
ARQ. ALBERTO BUNDUKI	GESTOR	RRT S10439392100
APOIO CDHU		
JHE		
ENG. LUIZ ROBERTO GUIMARÃES	COORDENADOR	ART 28027230210176583
JHE + GEPRO		
ENG. GERRIVAN DE OLIVEIRA	DESENVOLVIMENTO	ART 28027230211455797
LEGENDA / NOTAS		

- NOTAS:**
- MEDIDAS EM MILÍMETRO, NÍVEIS EM METRO
 - CARACTERÍSTICAS DO CONCRETO ESTRUTURAL (CAA II):
VIGAS PRÉ-FABRICADAS - $f_{ck} \geq 40$ MPa - $E_{cs} \geq 30,1$ GPa;
PILARES PRÉ-FABRICADOS - $f_{ck} \geq 40$ MPa - $E_{cs} \geq 30,1$ GPa;
CONCRETO MOLDADO IN LOCO - $f_{ck} \geq 30$ MPa - $E_{cs} \geq 26,1$ GPa;
EXECUTAR O GRAUTEAMENTO DA INTERFACE DAS VIGAS, PILARES E LAJES ALVEOLARES COM O MATERIAL GRAUTE:
 - $f_{gk} \geq 40$ MPa;
 - ISENTO DE RETRAÇÃO;
 - FLUIDEZ ADEQUADA PARA PERFEITO PREENCHIMENTO DO VÃO ENTRE OS ELEMENTOS.
 - ELASTÔMERO SIMPLES $e=10$ mm, DUREZA 70 SHORE-A.
 - COBRIMENTO = 2,5 CM.

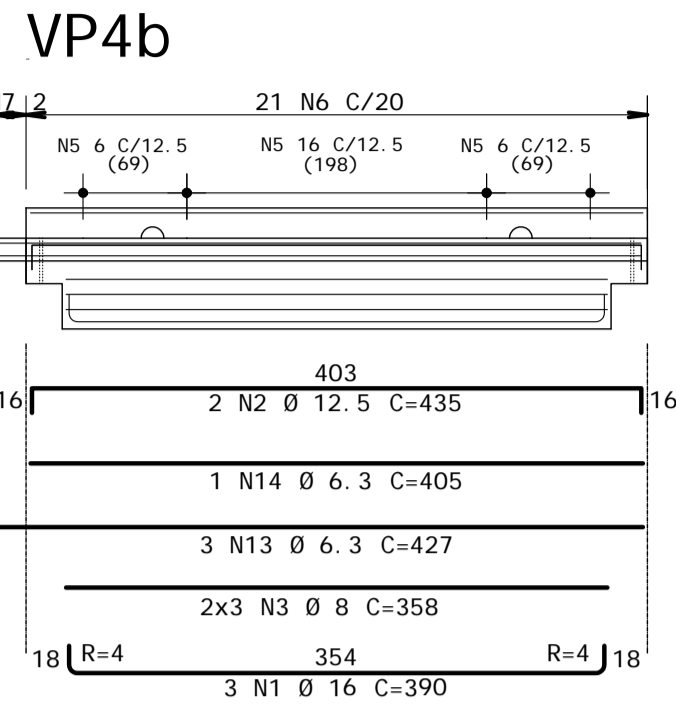
REVISÕES (DISCRIMINAÇÃO)	Nº	DATA	RUBRICA

Pavimento	Quant	Vol ume uni t	Vol ume total	Peso uni t	Peso total
Mezani no(1x)	2	0.744	1.488	1.86	3.72
TOTAIS	2		1.488		3.72

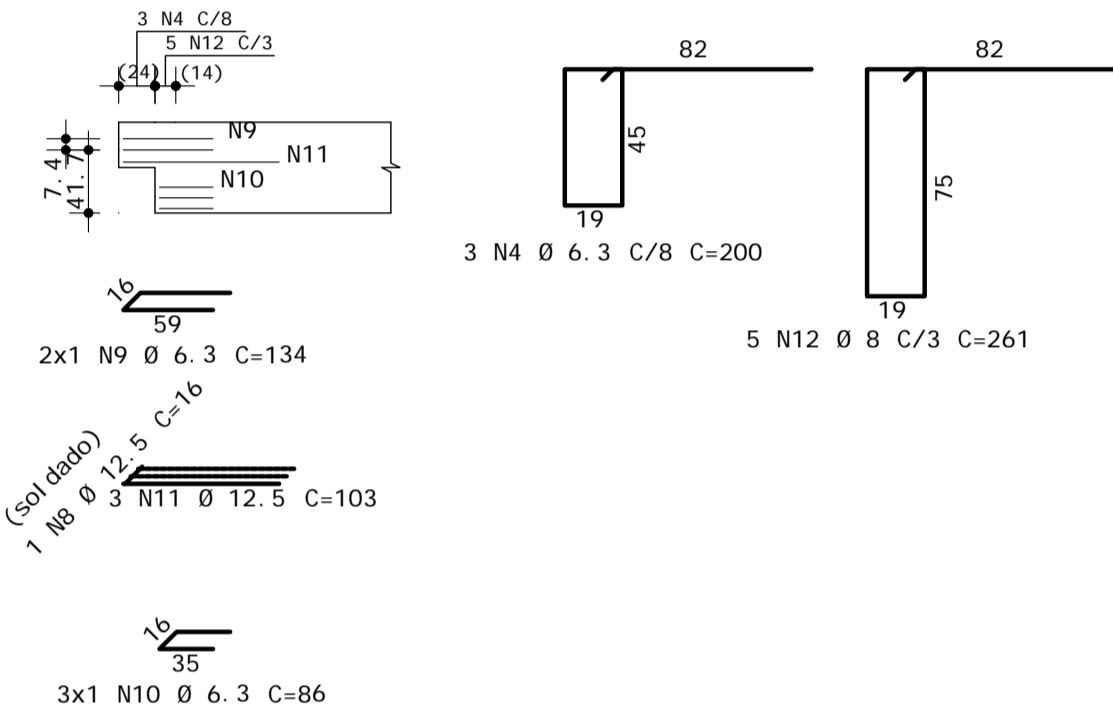


ÇO	POS	BI T	QUANT	COMPRI MENTO
		mm		UNI T TOTAL
VP4b (X2)				
50A	1	16	6	390 2340
50A	2	12.5	4	435 1740
50A	3	8	12	358 4296
50A	4	6.3	12	200 2400
50A	5	6.3	56	260 14560
50A	6	6.3	42	108 4536
50A	7	6.3	4	37 148
50A	8	12.5	4	16 64
50A	9	6.3	8	134 1072
50A	10	6.3	12	86 1032
50A	11	12.5	12	103 1236
50A	12	8	20	261 5220
50A	13	6.3	6	427 2562
50A	14	6.3	2	405 810

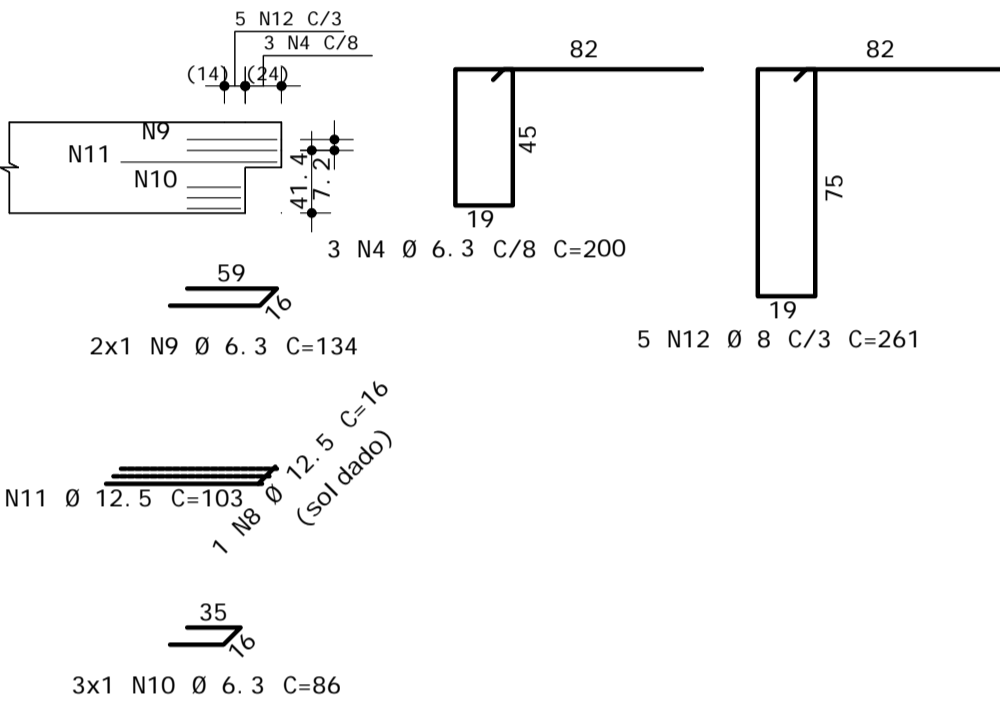
RESUMO DE AÇO			
ÇO	BI T	COMPR	PESO
	mm	m	kgf
50A	6.3	271	66
50A	8	95	38
50A	12.5	30	29
50A	16	23	37
Peso Total +10%			50A = 187 kgf



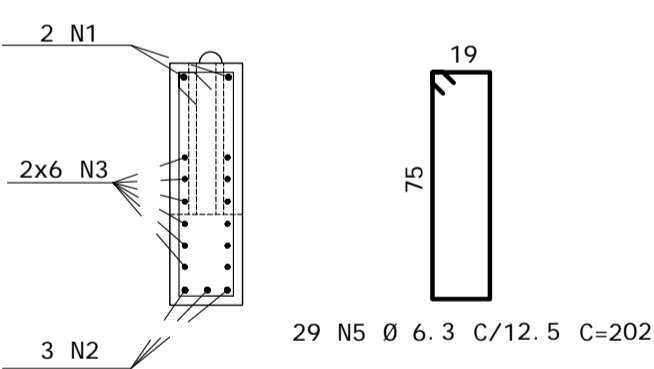
DETALHE INICIAL



DETALHE FINAL

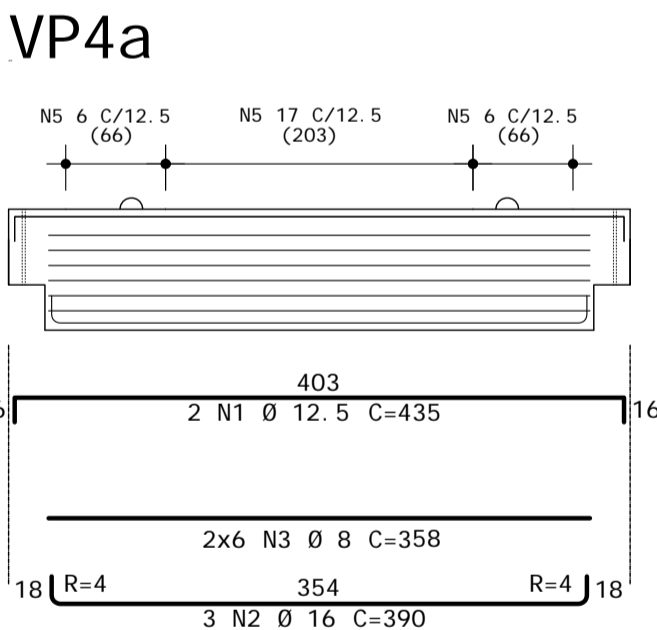


Pavimento	Quant	Vol ume uni t	Vol ume total	Peso uni t	Peso total
Mezani no(1x)	2	0.744	1.488	1.86	3.72
TOTAIS	2		1.488		3.72

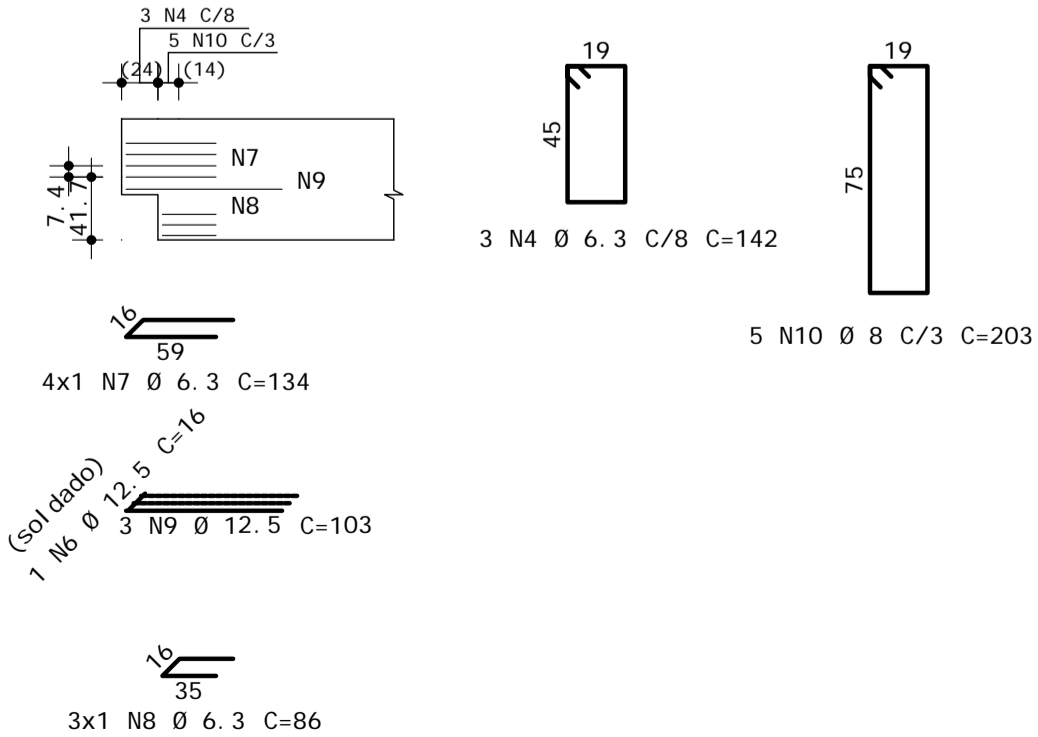


ÇO	POS	BI T	QUANT	COMPRI MENTO
		mm		UNI T TOTAL
VP4a (X2)				
50A	1	12.5	4	435 1740
50A	2	16	6	390 2340
50A	3	8	24	358 8592
50A	4	6.3	12	142 1704
50A	5	6.3	58	202 11716
50A	6	12.5	4	16 64
50A	7	6.3	16	134 2144
50A	8	6.3	12	86 1032
50A	9	12.5	12	103 1236
50A	10	8	20	203 4060

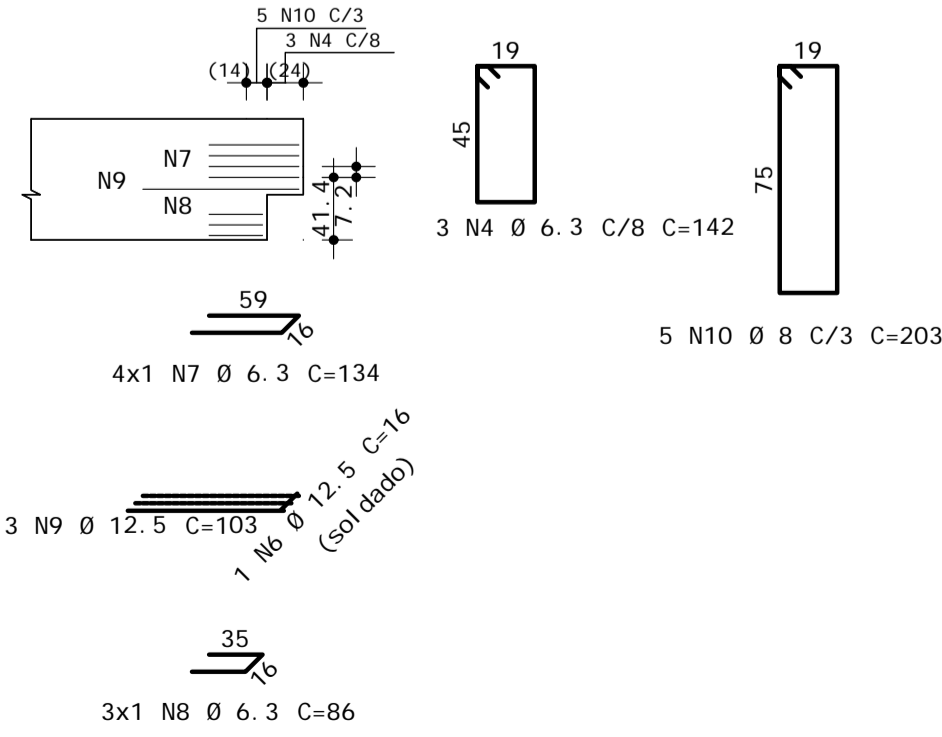
RESUMO DE AÇO			
ÇO	BI T	COMPR	PESO
	mm	m	kgf
50A	6.3	166	41
50A	8	127	50
50A	12.5	30	29
50A	16	23	37
Peso Total +10%			50A = 173 kgf



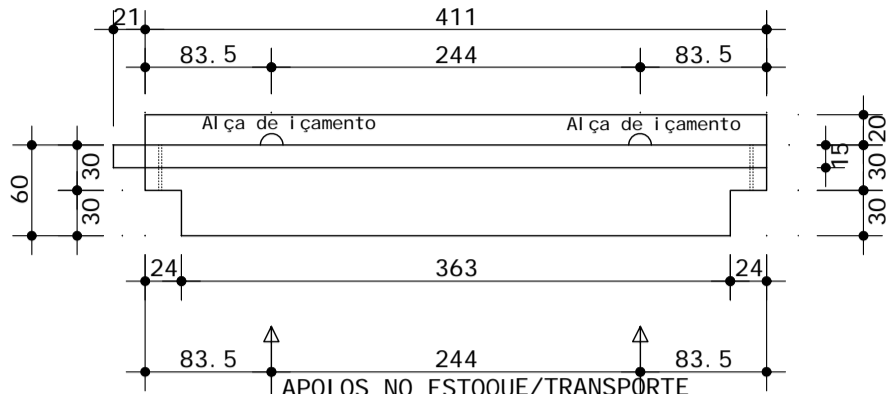
DETALHE INICIAL



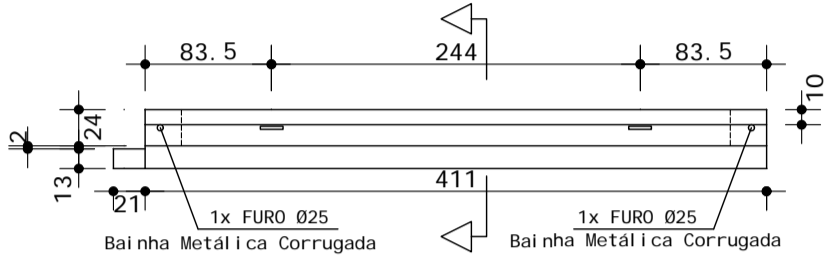
DETALHE FINAL



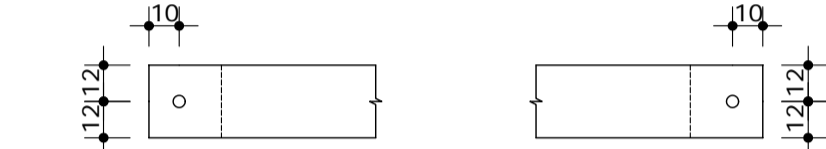
VP4b
ELEVACÃO



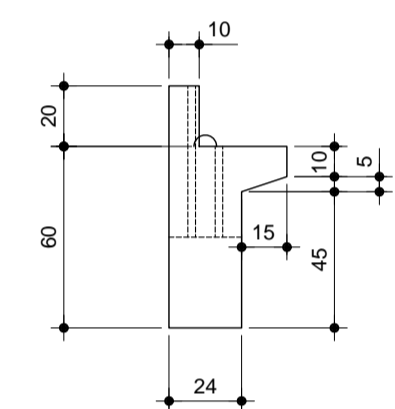
PLANTA



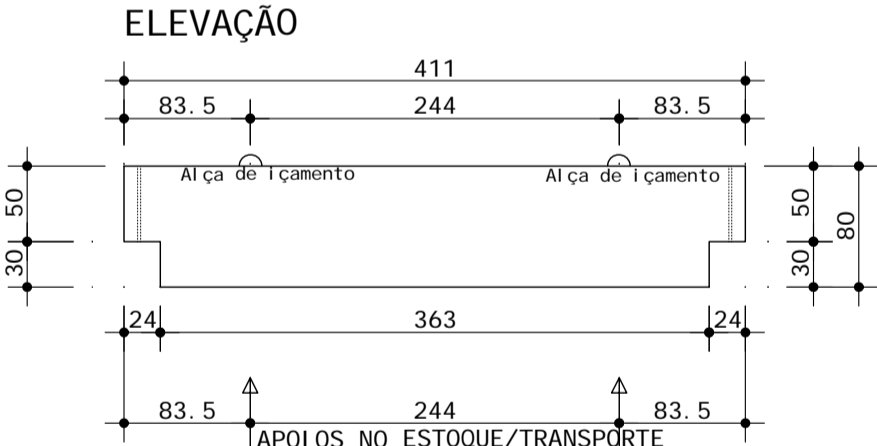
FUROS INICIAIS FUROS FINAIS
(25 mm)



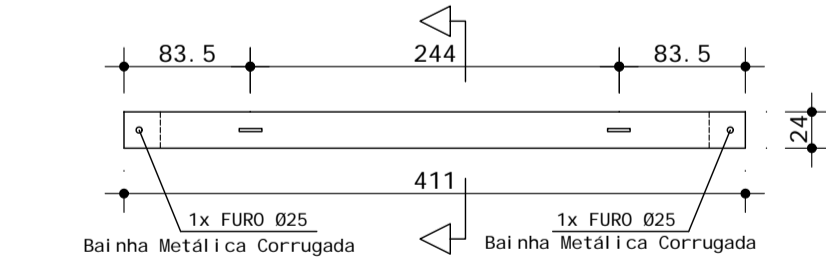
SEÇÃO



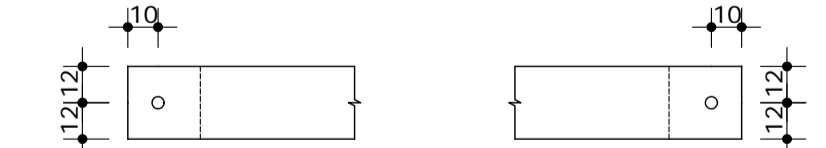
VP4a
ELEVACÃO



PLANTA



FUROS INICIAIS FUROS FINAIS
(25 mm)



SEÇÃO

