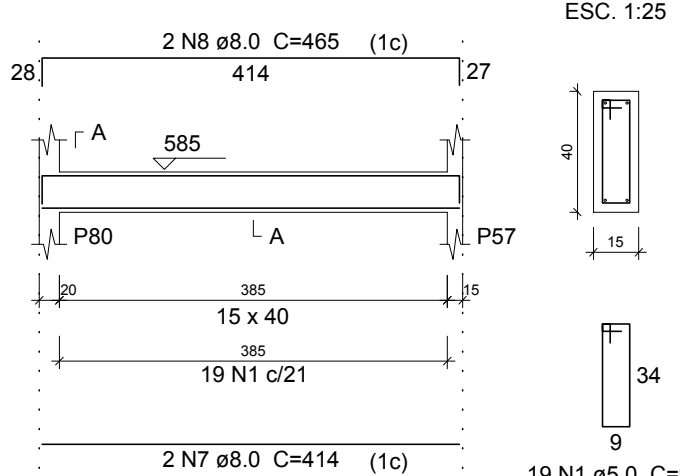
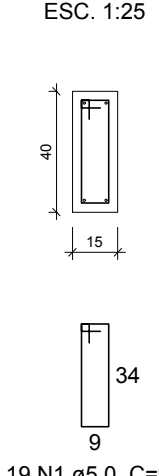


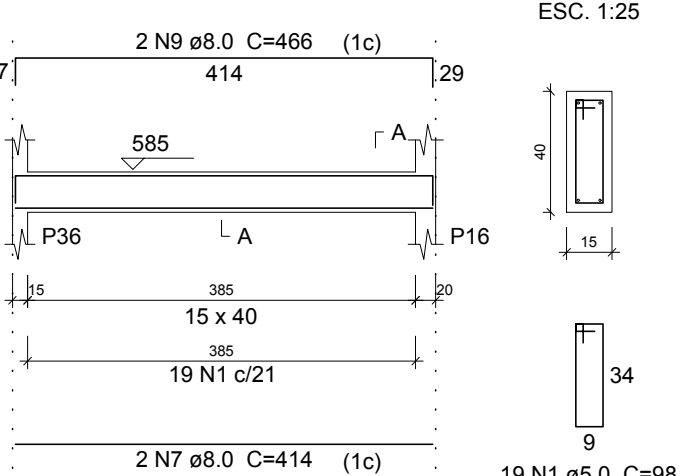
V71  
ESC. 1:75



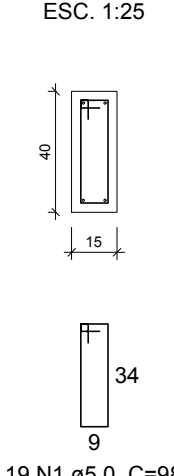
SEÇÃO A-A  
ESC. 1:25



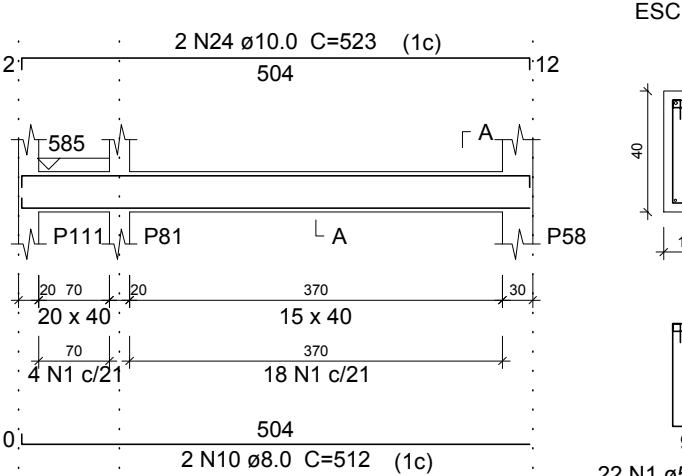
V72  
ESC. 1:75



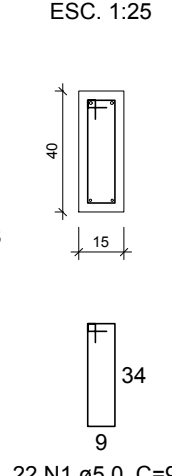
SEÇÃO A-A  
ESC. 1:25



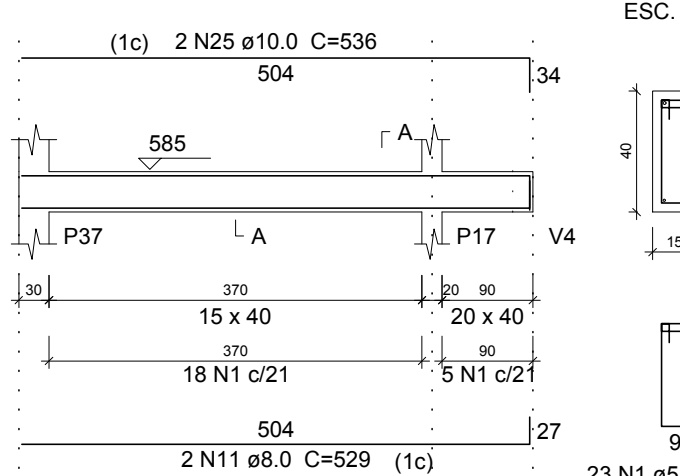
V73  
ESC. 1:75



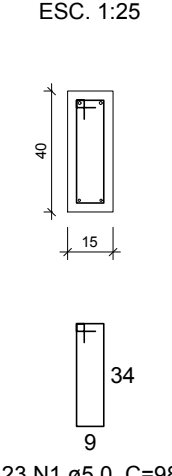
SEÇÃO A-A  
ESC. 1:25



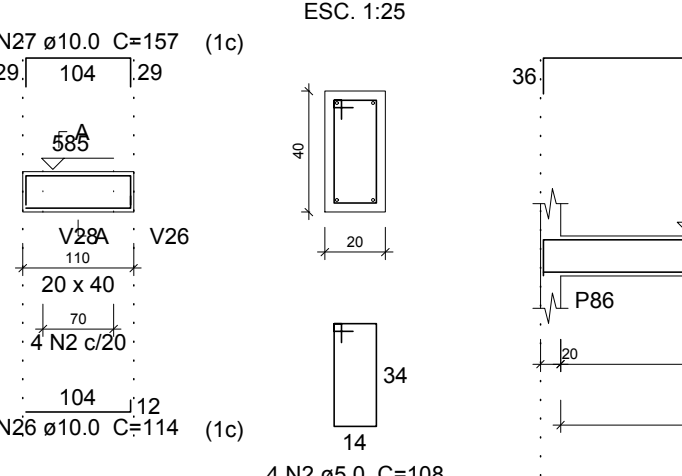
V74  
ESC. 1:75



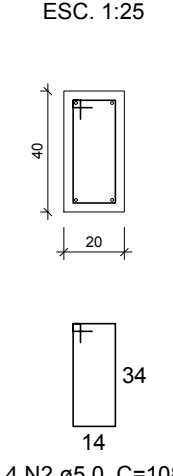
SEÇÃO A-A  
ESC. 1:25



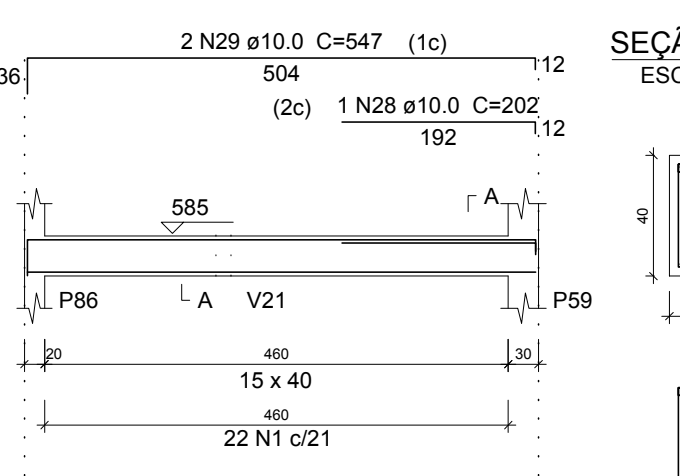
V75  
ESC. 1:75



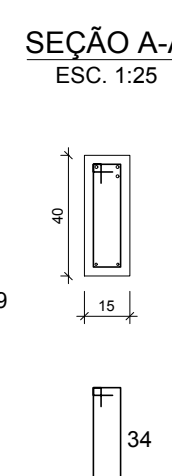
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ESC. 1:25



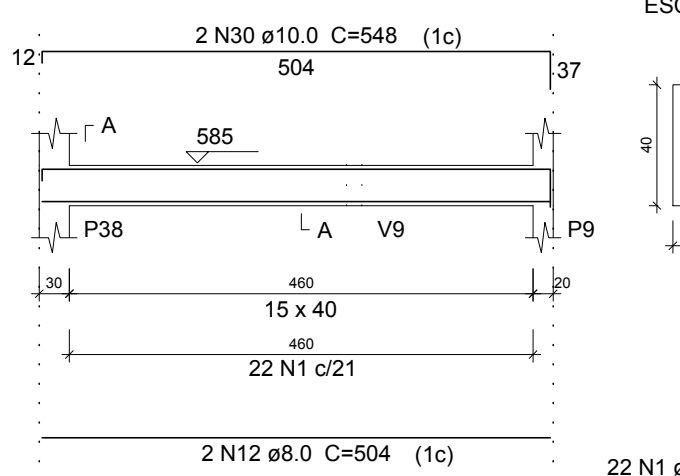
V76  
ESC. 1:75



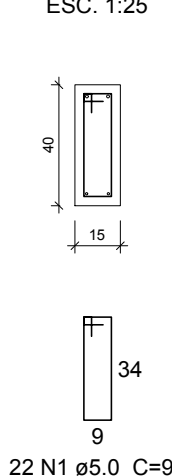
SEÇÃO A-A  
ESC. 1:25



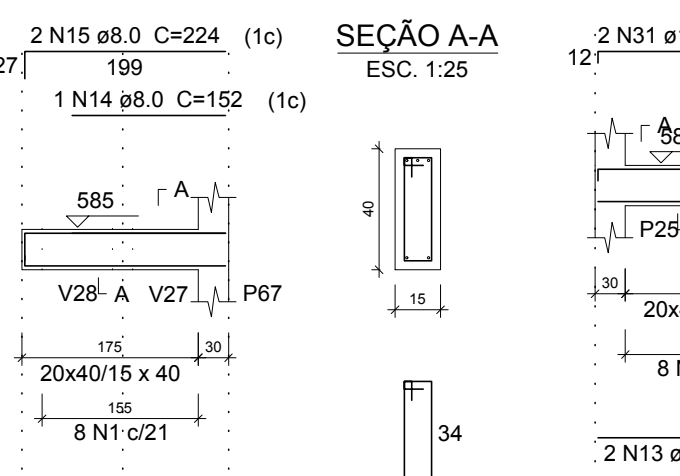
V77  
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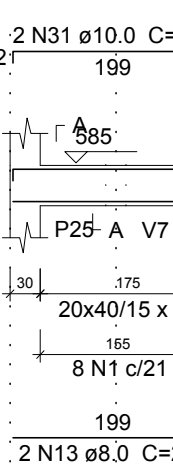
SEÇÃO A-A  
ESC. 1:25



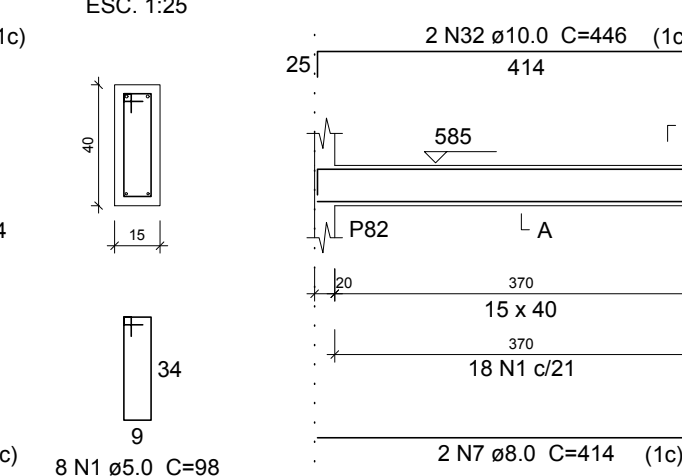
V78  
ESC. 1:75



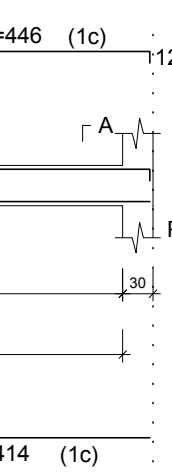
SEÇÃO A-A  
ESC. 1:25



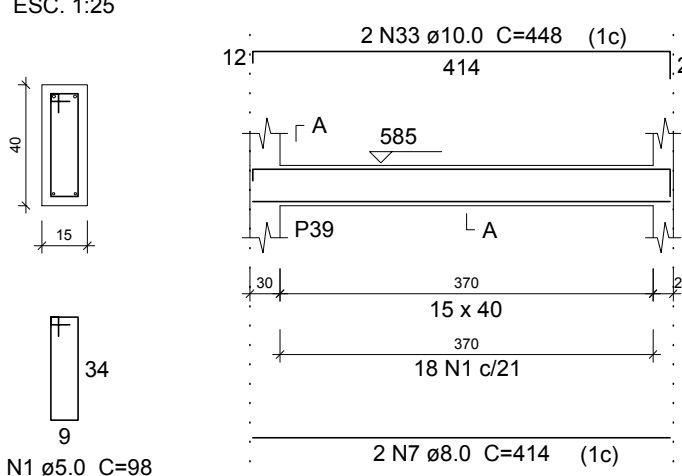
V79  
ESC. 1:75



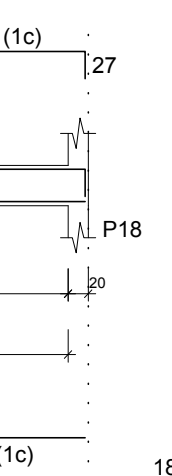
SEÇÃO A-A  
ESC. 1:25



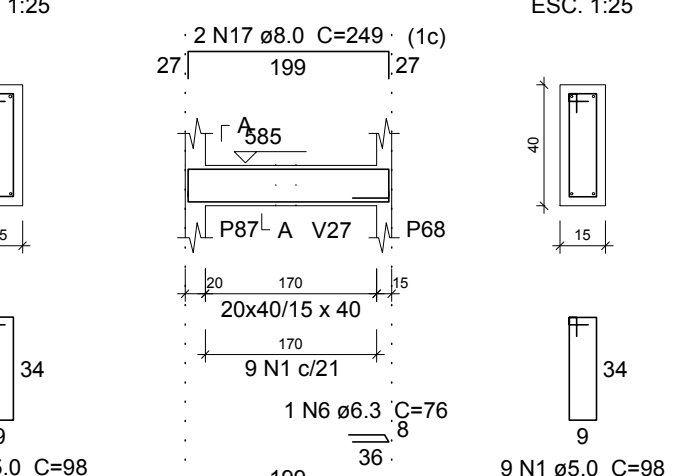
V80  
ESC. 1:75



SEÇÃO A-A  
ESC. 1:25



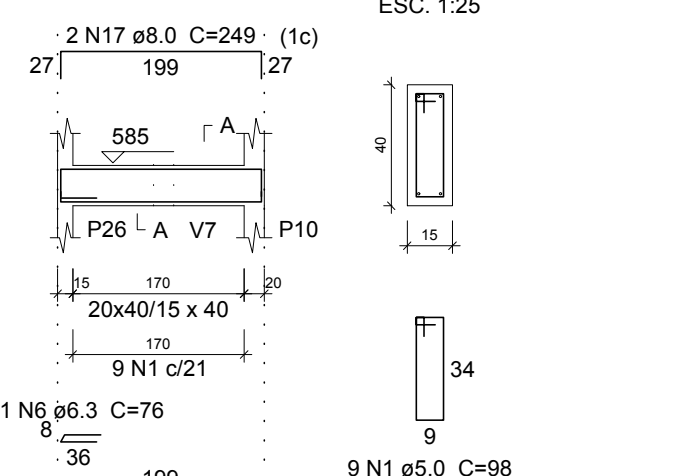
V81  
ESC. 1:75



SEÇÃO A-A  
ESC. 1:25



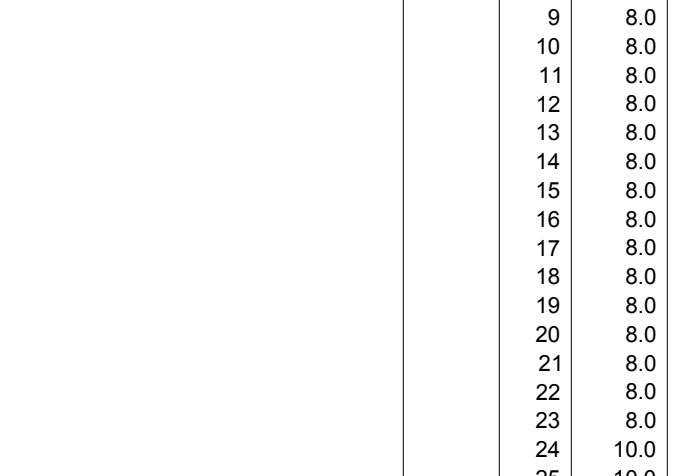
V82  
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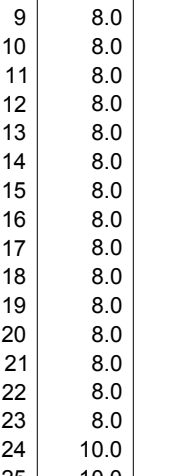
SEÇÃO A-A  
ESC. 1:25



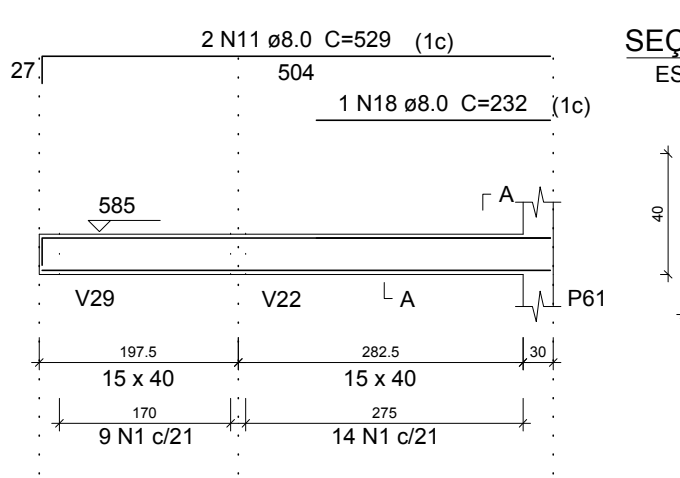
V83  
ESC. 1:75



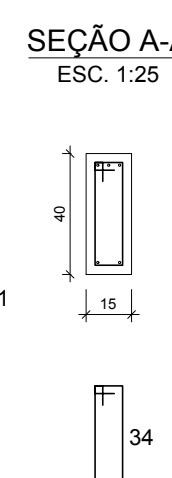
SEÇÃO A-A  
ESC. 1:25



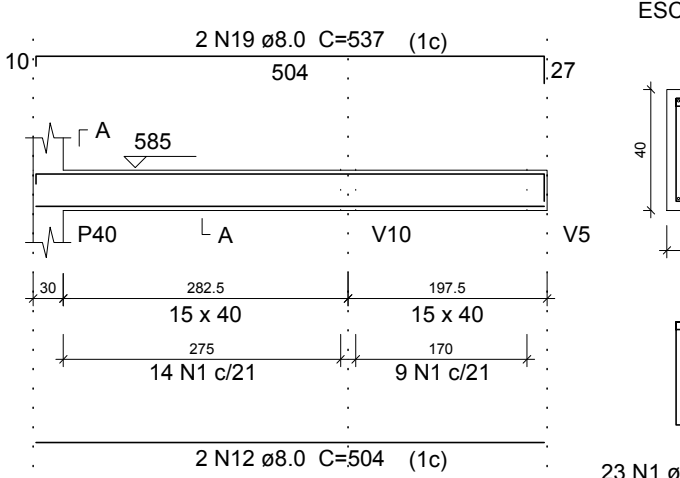
V84  
ESC. 1:75



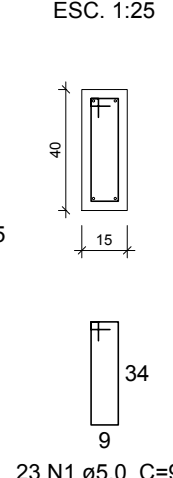
SEÇÃO A-A  
ESC. 1:25



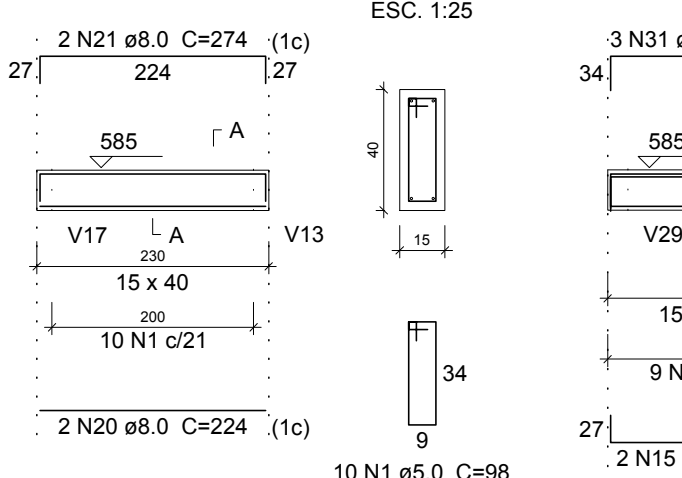
V85  
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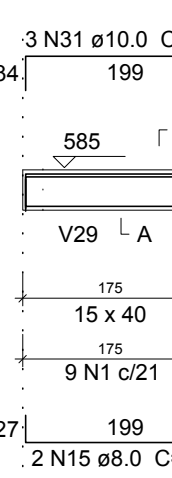
SEÇÃO A-A  
ESC. 1:25



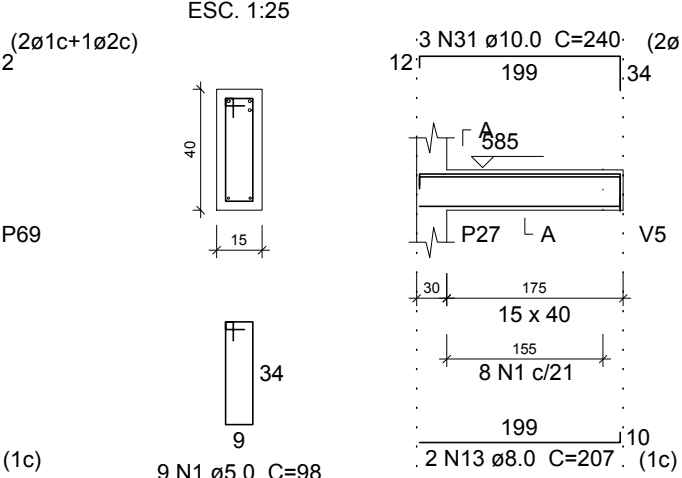
V86  
ESC. 1:75



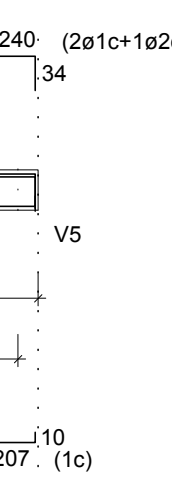
SEÇÃO A-A  
ESC. 1:25



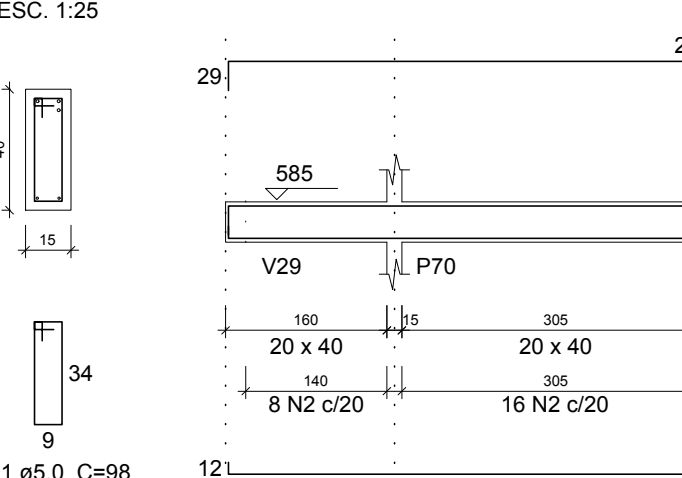
V87  
ESC. 1:75



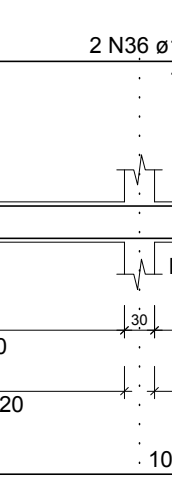
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ESC. 1:25



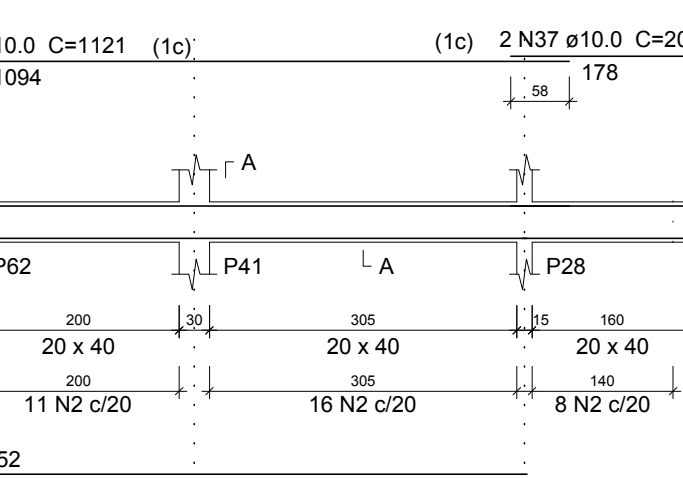
V88  
ESC. 1:75



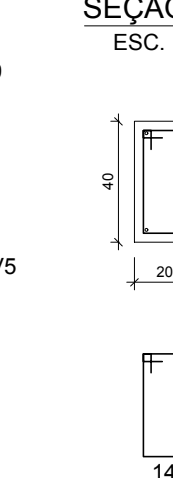
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ESC. 1:25



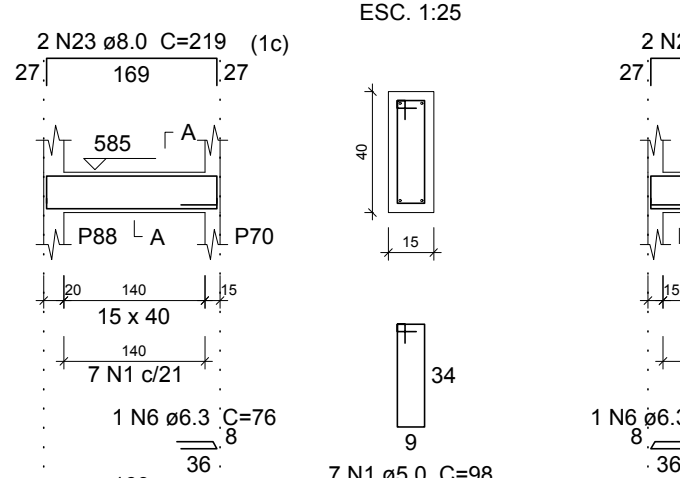
V89  
ESC. 1:75



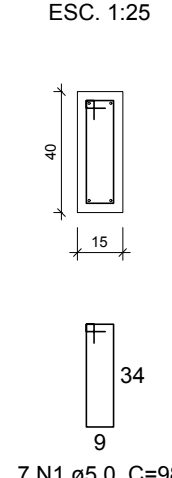
SEÇÃO A-A  
ESC. 1:25



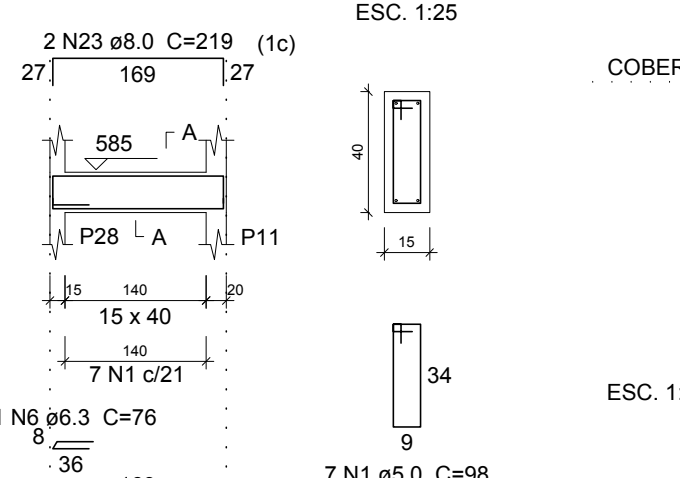
V90  
ESC. 1:75



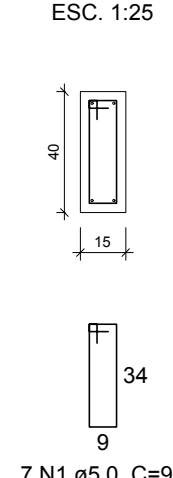
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ESC. 1:25



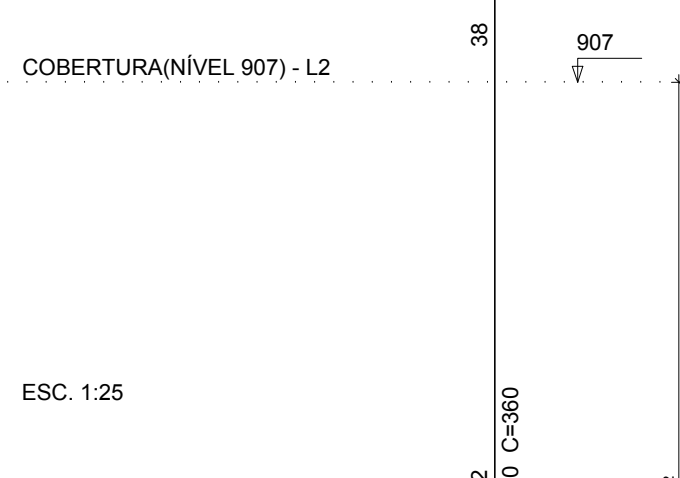
V91  
ESC. 1:75



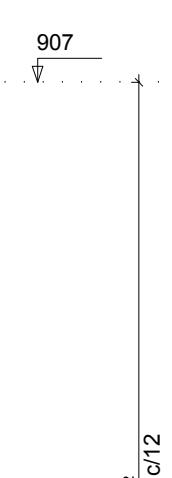
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ESC. 1:25



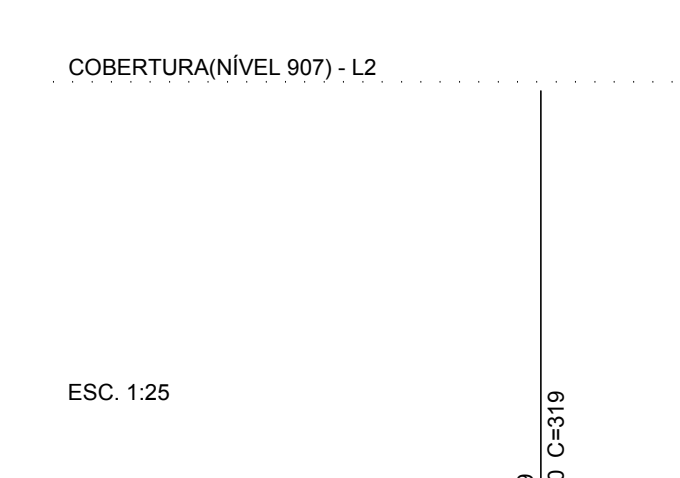
V92  
ESC. 1:75



SEÇÃO A-A  
ESC. 1:25



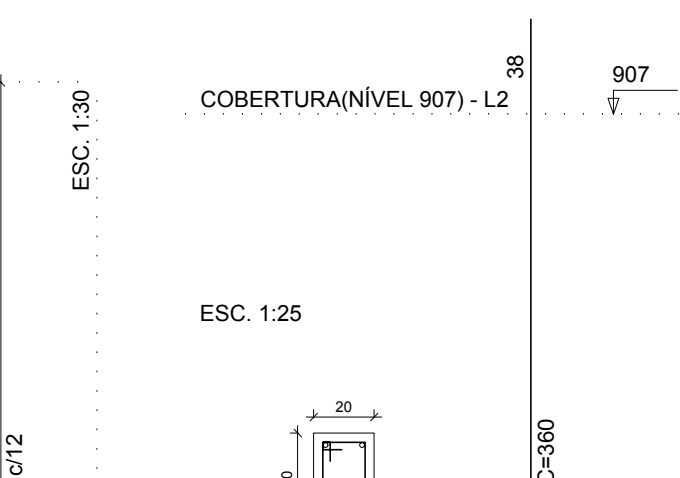
V93  
ESC. 1:75



SEÇÃO A-A  
ESC. 1:25



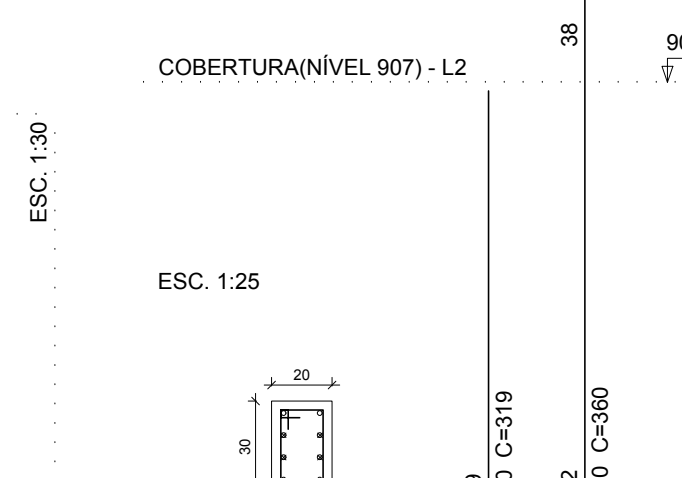
V94  
ESC. 1:75



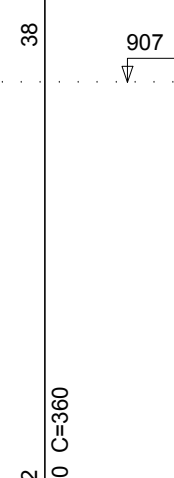
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ESC. 1:25



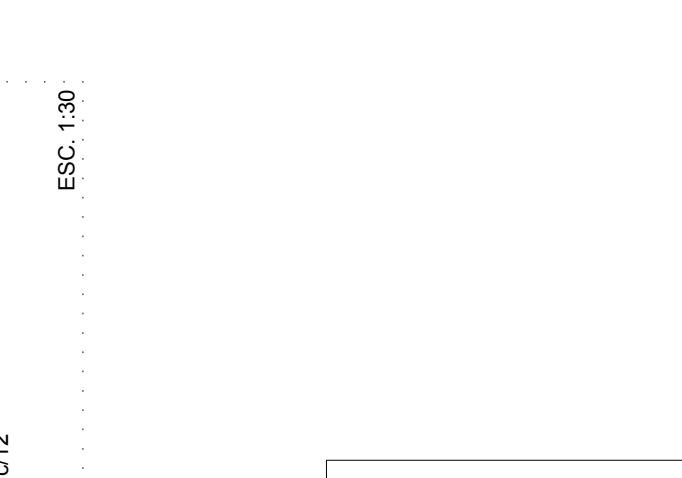
V95  
ESC. 1:75



SEÇÃO A-A  
ESC. 1:25



V96  
ESC. 1:75



SEÇÃO A-A  
ESC. 1:25



Relação do aço

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	284	98	27832
	2	5.0	63	108	6804
	3	5.0	162	128	20736
	4	5.0	162	24	3888
	5	5.0	405	88	35640
	6	6.3	4	76	304
	7	8.0	8	414	3312
	8	8.0	2	465	930
	9	8.0	2	466	932
	10	8.0	2	512	1024
	11	8.0	4	529	2116
	12	8.0	8	504	4032
	13	8.0	6	207	1242
	14	8.0	1	152	152
	15	8.0	4	224	896
	16	8.0	4	215	860
	17	8.0	4	249	996
	18	8.0	1	232	232
	19	8.0	2	537	1074
	20	8.0	2	224	448
	21	8.0	2	274	548
	22	8.0	4	185	740
	23	8.0	4	219	876
	24	10.0	2	523	1046
	25	10.0	2	536	1072
	26	10.0	2	114	228
	27	10.0	2	157	314
	28	10.0	1	202	202
	29	10.0	2	547	1094
	30	10.0	2	548	1096
	31	10.0	8	240	1920
	32	10.0	2	446	892
	33	10.0	2	448	896
	34	10.0	2	1062	2124
	35	10.0	2	177	354
	36	10.0	2	1121	2242
	37	10.0	2	205	410
	38	10.0	90	360	32400
	39	10.0	14	319	4466

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	3.1	0.8
	8.0	204.1	88.6
	10.0	507.6	344.2
CA60	5.0	949	160.9
PESO TOTAL (kg)			
CA50		433.6	
CA60		160.9	

Volume de concreto (C-25) = 9.49 m³  
Área de forma = 150.87 m²



Equipe Técnica

Eng. Civil Dilnei de Freitas Jacinto  
Eng. Civil Jacson Jeremias  
Eng. Eletricista Edénir Vieira  
Arq. Urbanista e Seg. do Trabalho Mario Cesar Osorio  
Arq. Urbanista Andrea Patricia Martins de Souza  
Acad. de Engenharia Civil Evair da Silva Borges  
Acad. de Arq. e Urbanismo Vinicius Souza

E + Plan Engenharia Ltda Me - CNPJ:15.018.870/0001-65  
Registro no CREA/SC: 127.622-8  
www.emais.eng.br - contato@emais.eng.br - (48)3093-9350  
Rua Najla Carone Goedert, nº 1080 - Sala 411 - Ed. City Office  
Paganí - Palhoça - SC

Projeto

## ESTRUTURAL

Obra

UBSF BAKITAS  
Rua São Vicente S/N - Bairro Boa Vista - Joinville SC

Proprietário

Fundo Municipal de Saúde de Joinville  
CNPJ:08184821/0001-37

Responsáveis Técnicos

Andrea P. Martins de Souza  
Arquiteta e Urbanista  
CAU: A30287-2

Edénir Vieira  
Engenheiro Eletricista  
Crea/SC:118.524-5

Dilnei de Freitas Jacinto  
Engenheiro Civil  
Crea/SC:122.825-5

Jacson Jeremias  
Engenheiro Civil  
Crea/SC:125.007-9

Conteúdo

Detalhamento de Vigas e Pilares.

Ref.

JOI-01

Data

OUT/2016

Área

862,69 m²

Escala

INDICADA

Folha

14/25

PROIBIDO CÓPIA OU REPRODUÇÃO DO PROJETO SEM PRÉVIA AUTORIZAÇÃO.  
DIREITOS AUTORAIS RESERVADOS PELA LEI Nº 9.610-98