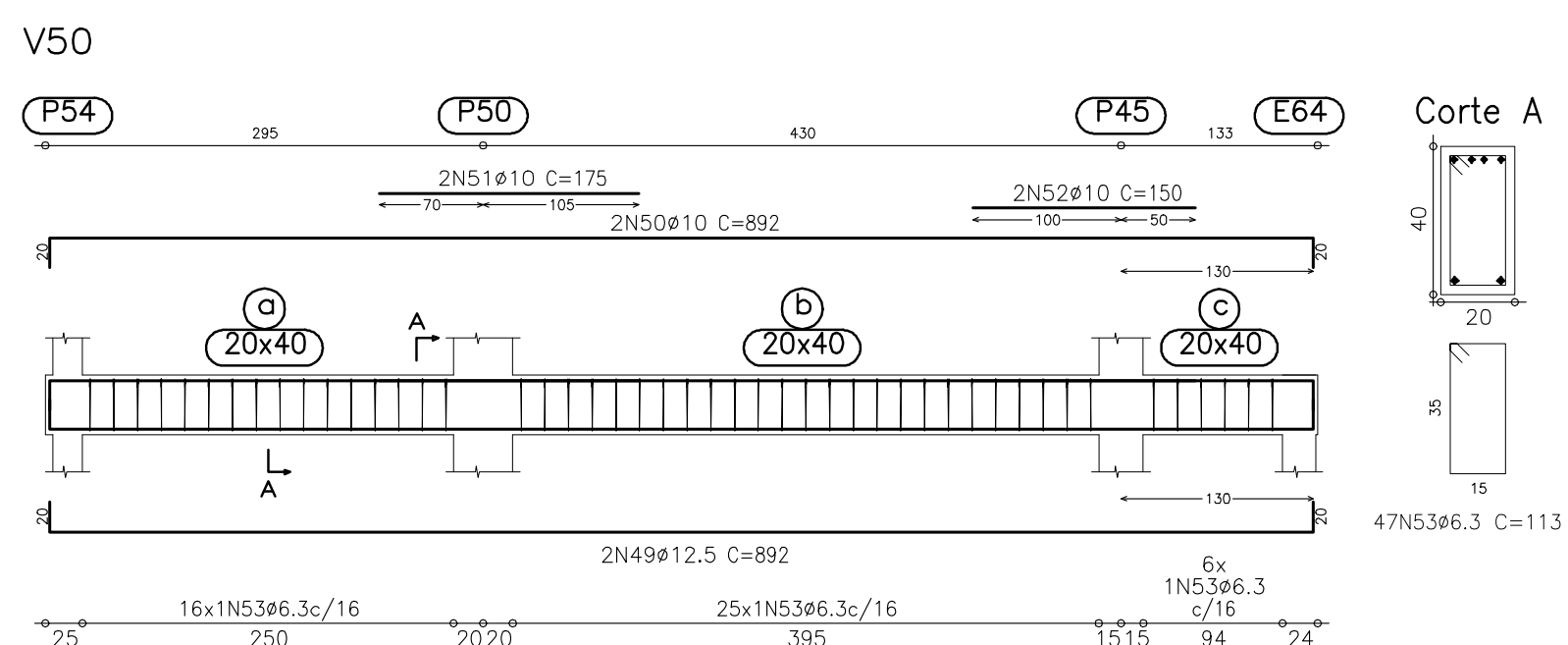
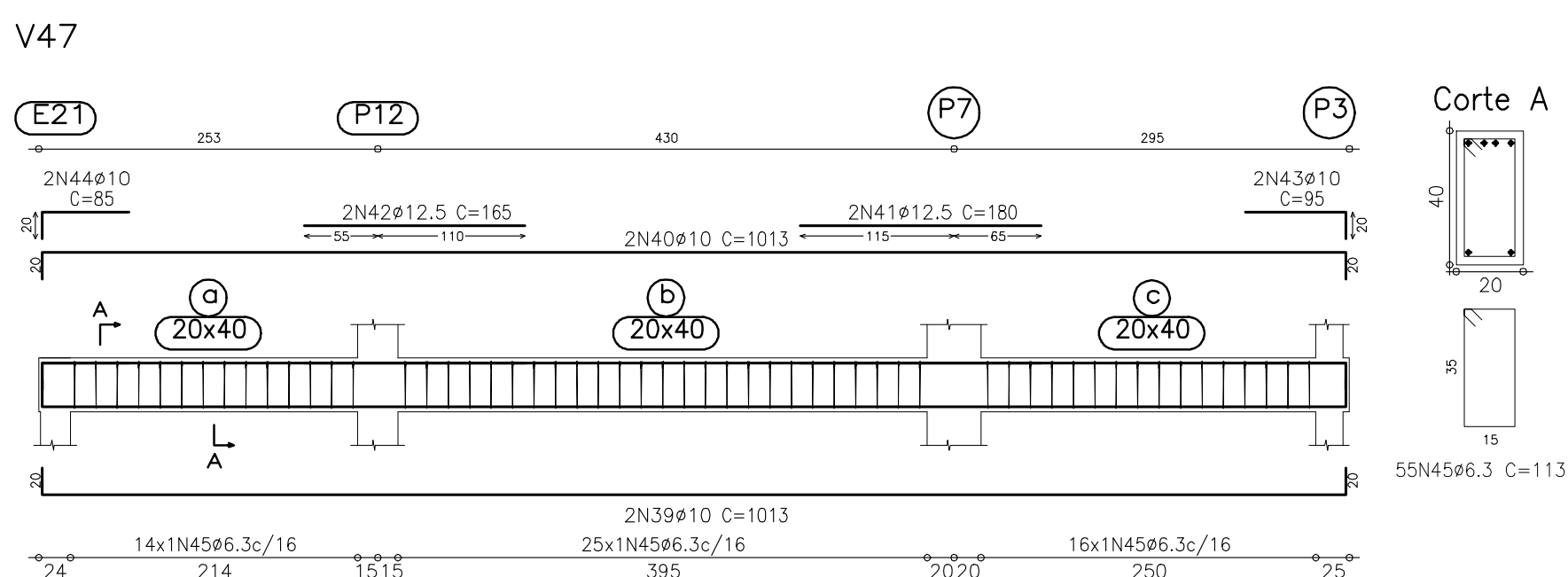
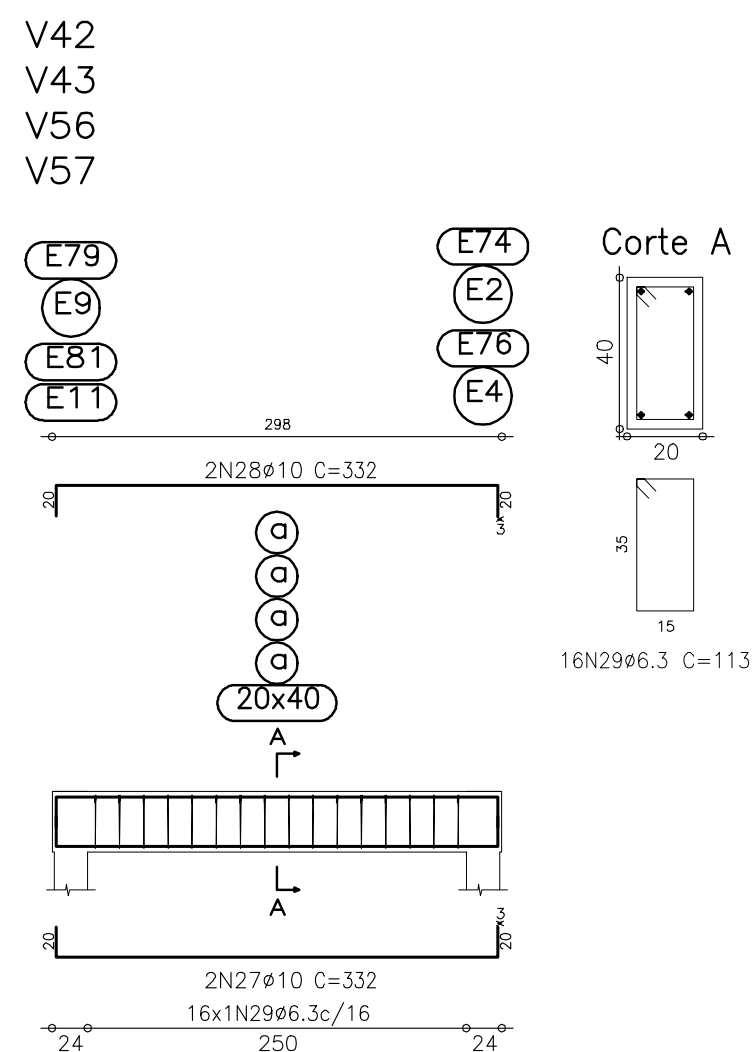
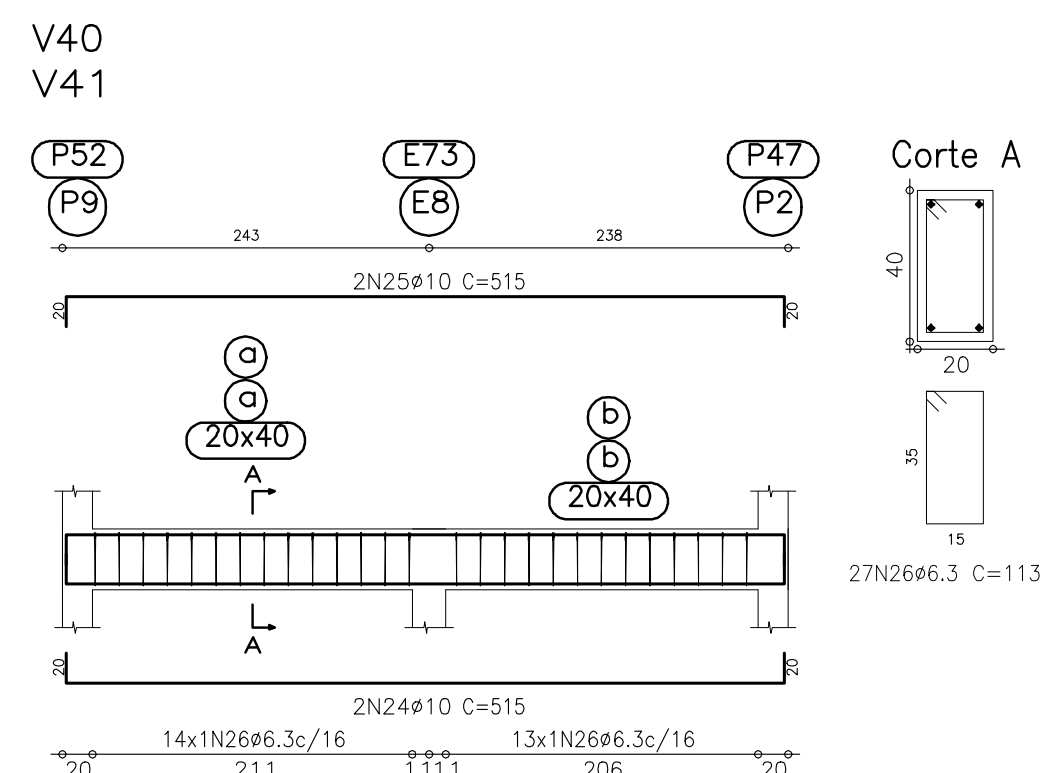
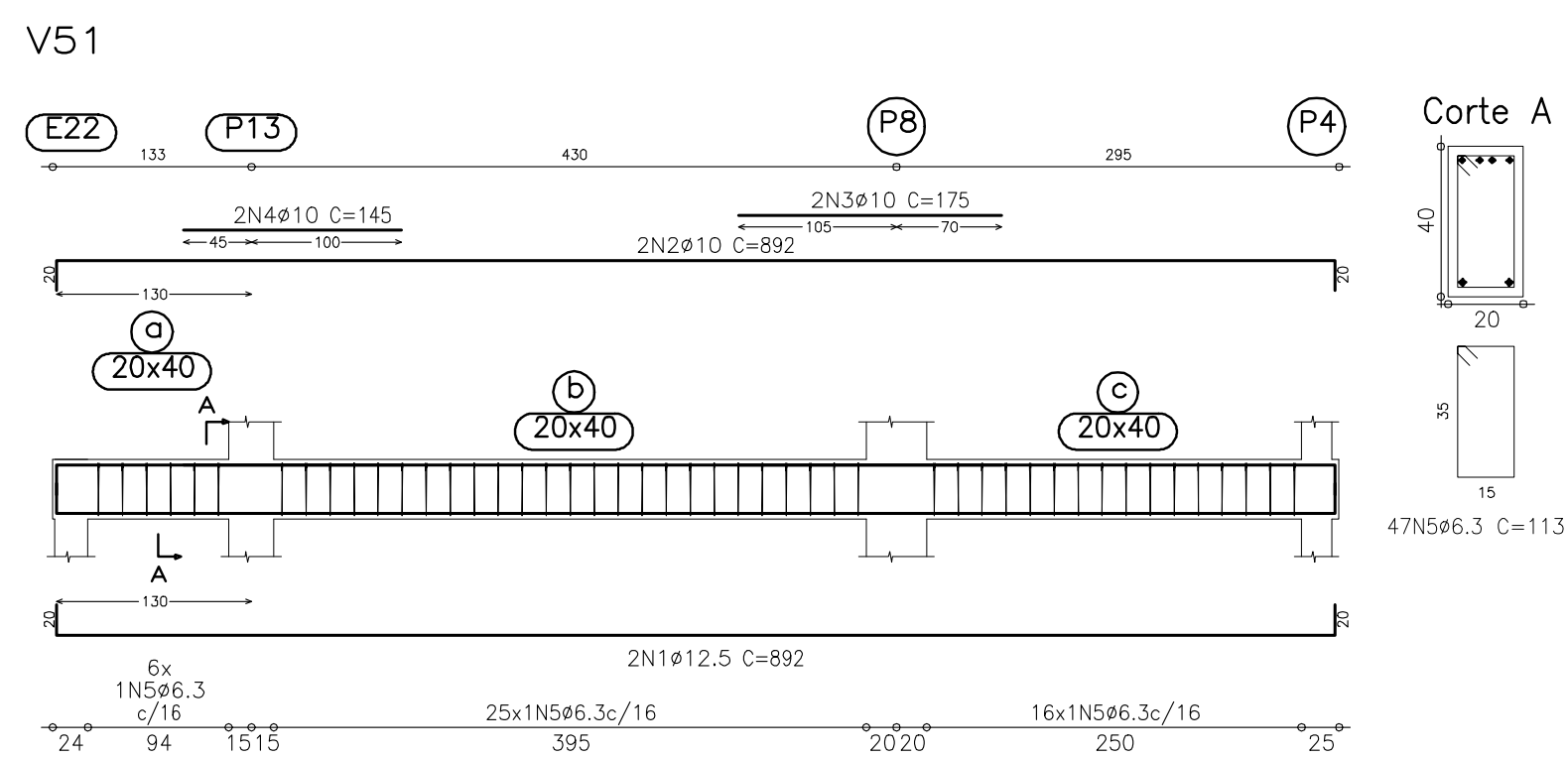
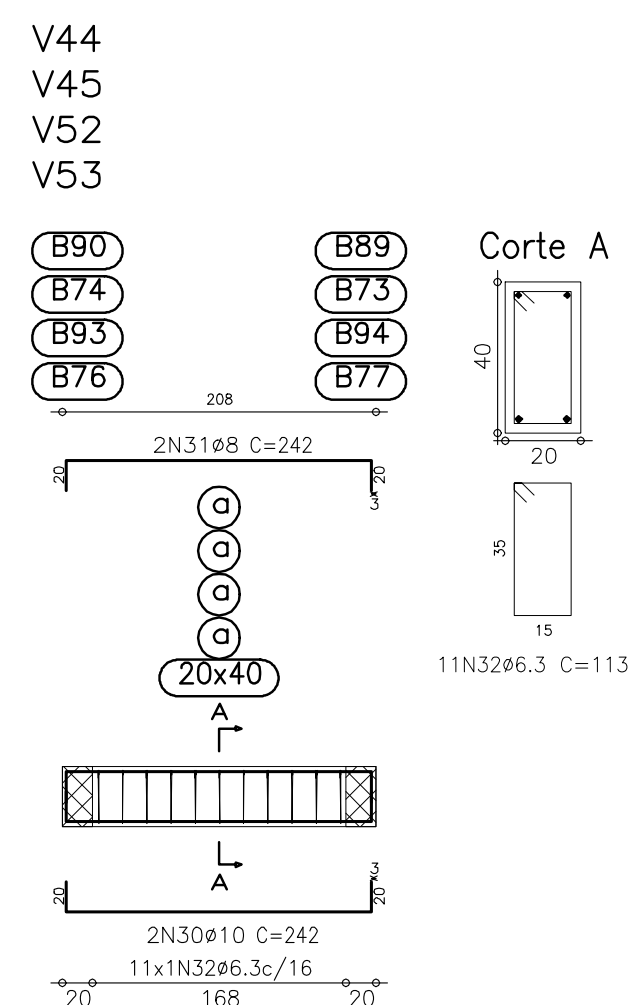
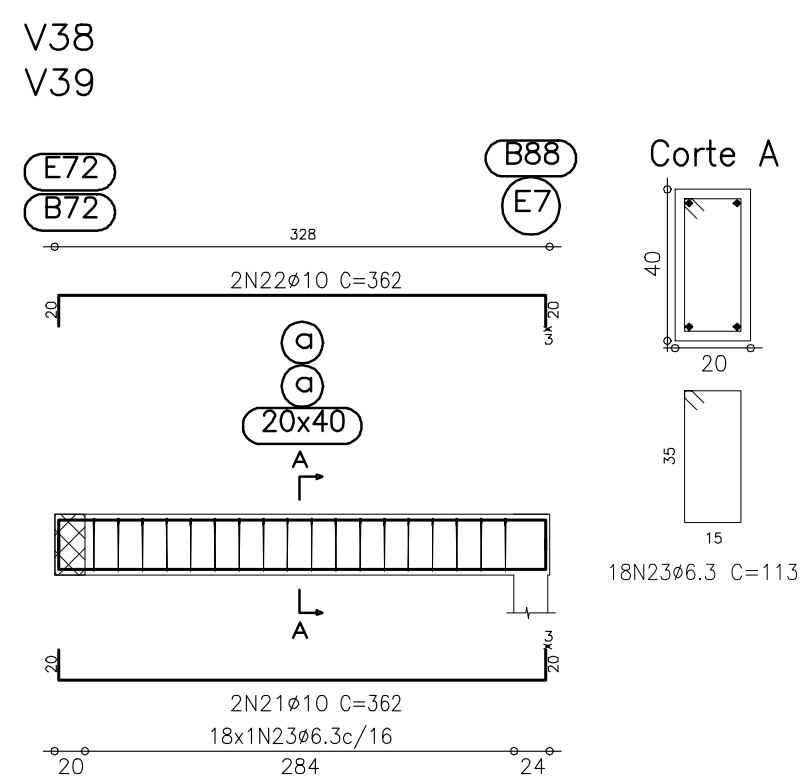
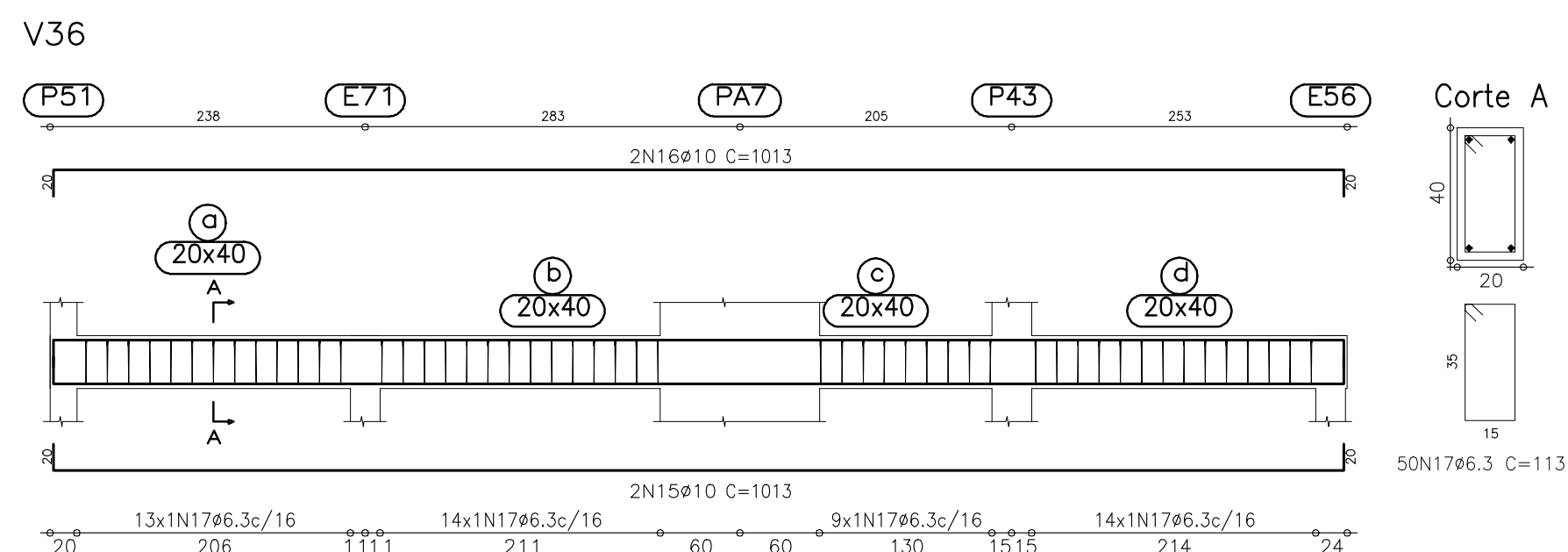
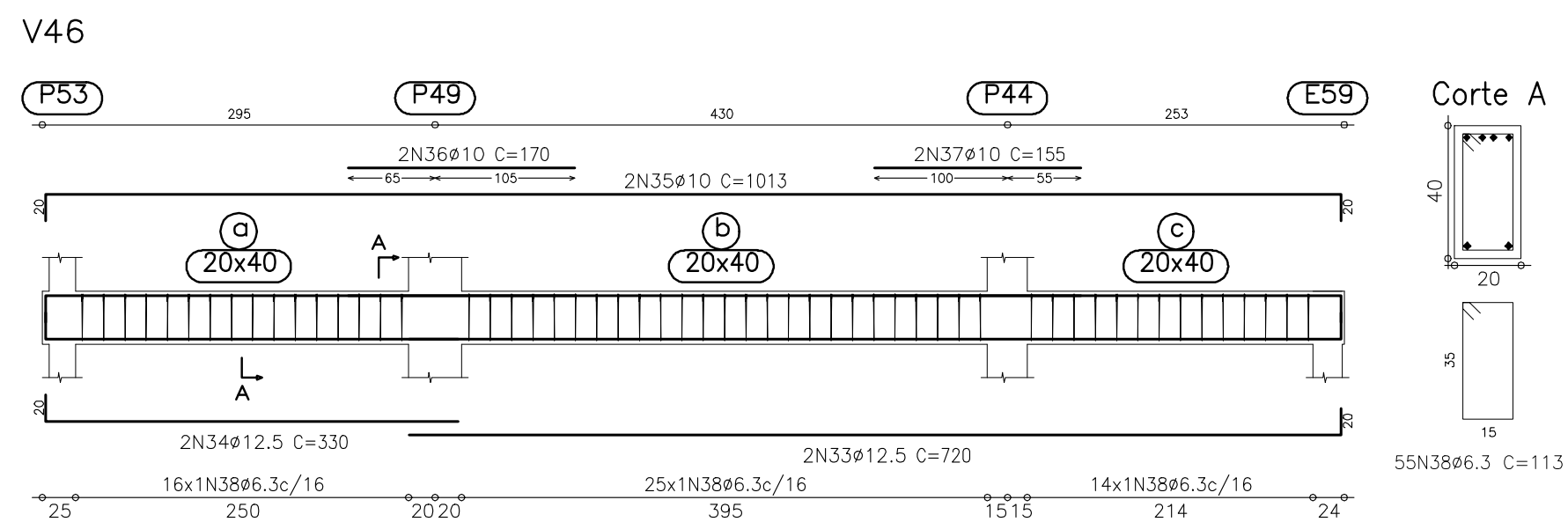
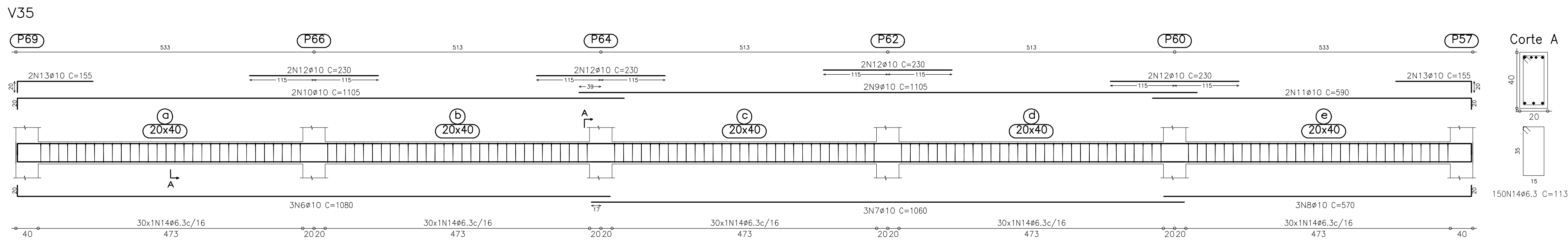


Elemento	Pos.	Diam.	Q.	Dob. (cm)	Ret. (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V51	1	Ø12.5	2	20	852	20	892	1784	17.5	
	2	Ø10	2	20	852	20	892	1784	11.2	
	3	Ø10	2	20	175		175	350	2.2	
	4	Ø10	2	20	145		145	290	1.8	
	5	Ø6.3	47				113	5311	13.1	
Total:									45.8	

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Ret. (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V35	6	Ø10	3	20	1060		1060	2120	20.3	
	7	Ø10	3	20	1060		1060	2120	20.0	
	8	Ø10	3	20	550		550	1100	10.7	
	9	Ø10	2	20	1105		1105	2210	13.9	
	10	Ø10	2	20	1085		1105	2210	13.9	
	11	Ø10	2	20	570		590	1180	7.4	
	12	Ø10	8	20	230		230	1840	11.6	
	13	Ø10	4	20	135		155	620	3.9	
	14	Ø6.3	150				113	16950	41.9	
Total:									143.6	

Térreo  
Desenho de vigas  
Concreto: C30, em geral  
Aço: CA-50-A e CA-60-B  
Escala vigas: 1:50  
Escala seções: 1:20



## ARMADURA DAS VIGAS DO TÉRREO (03/04)

ESCALA 1/60 - ESCALA 1/20 (CORTES)

FCK=30.0 MPa - FATOR H<sub>2</sub>O/CIMENTO=0.58

		<div>07/09/2015</div> <div>DATA</div>		<div>REVISO: PROJETO INICIAL</div> <div>REVISÃO/AUTORIZAÇÃO</div>	
<h2>PROJETO ESTRUTURAL CONCRETO</h2>					
<div>OBRA:</div> <div>ARENA - CENTRO DE EVENTOS</div>					
<div>PROPRIETÁRIO:</div> <div>PREFEITURA MUNICIPAL DE SÃO JORGE DO IVAI</div>					
<div>CONTEÚDO:</div> <div>ARMADURA DAS VIGAS DO TÉRREO (03/04)</div>					
<div>LOCAL: RUA DR. MICHEL FELPE - LOTE 125-B - GUERÁ ANDRÁ - SÃO JORGE DO IVAI - PARANÁ</div>					
<div>141220-EST_L3_03.dwg</div> <div>DATA: MARÇO/2015</div>		<div>RESPONSÁVEL TÉCNICO PELO PROJETO</div>			
<div>Nº PÁGINAS</div> <div>20/28</div>		<div>PAULO LEÃO</div> <div>LEÃO Projetos Complementares LTDA</div> <div>ENGENHEIRO CIVIL</div> <div>Av. Certo Azul, 2688 - Jardim Novo Horizonte - 44.3026-1800</div> <div>CREA Nº 45577</div> <div>CHP 08.956.061/0001-39 - CREA Nº 45577</div> <div>pauloleao@leaooprojetos.com.br</div> <div>www.leaooprojetos.com.br</div>			