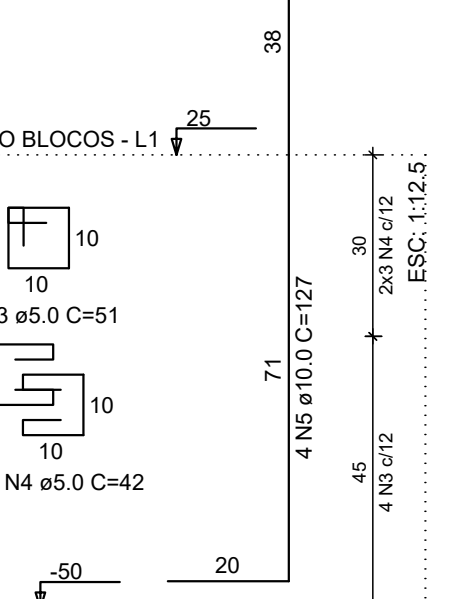
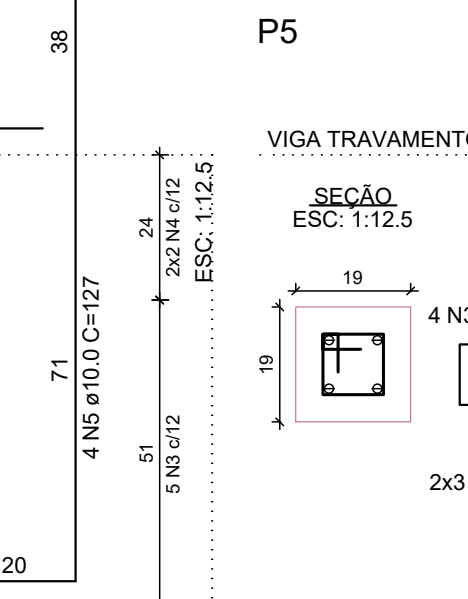
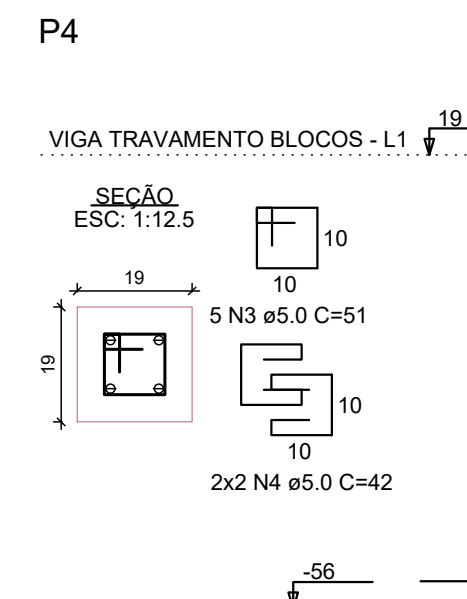
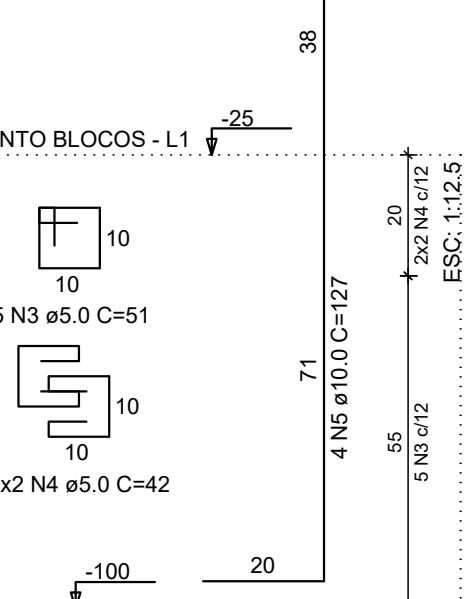
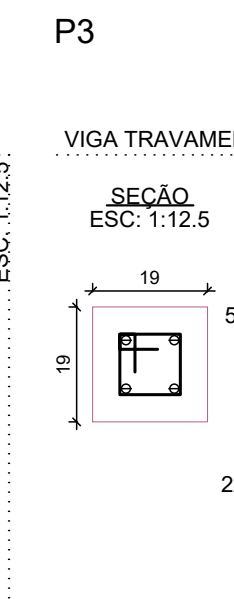
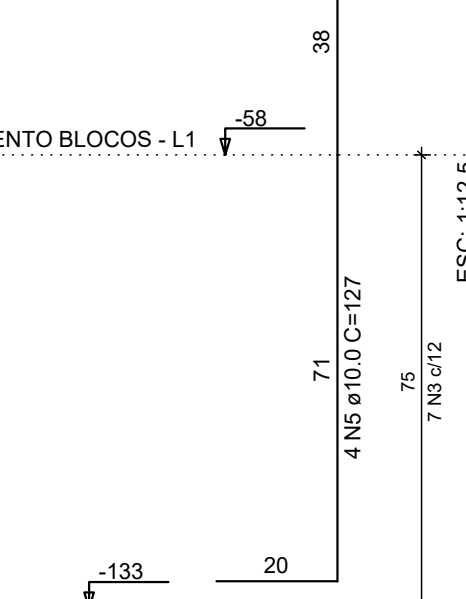
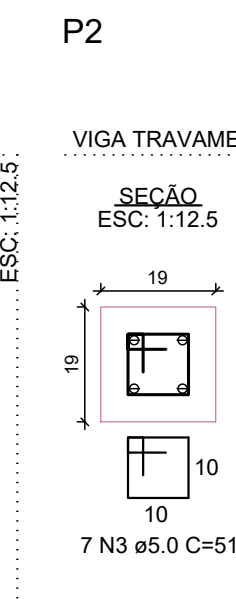
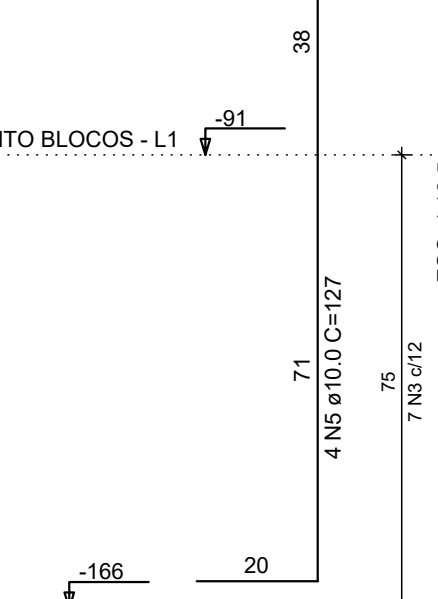
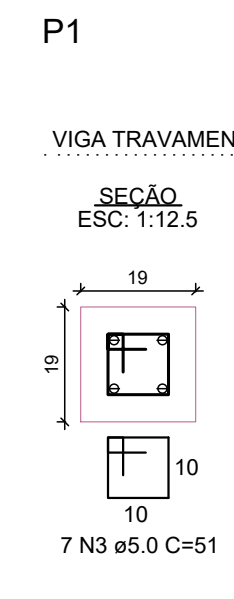
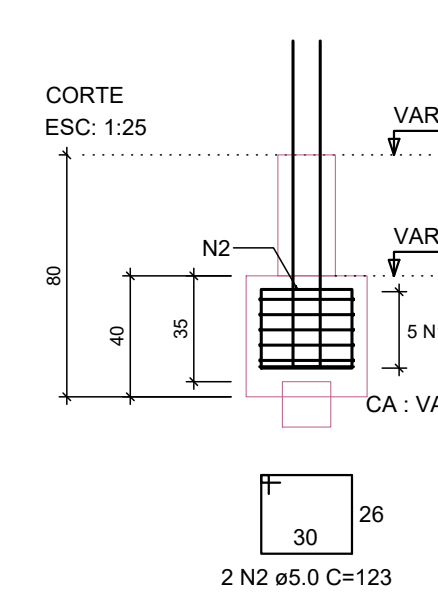
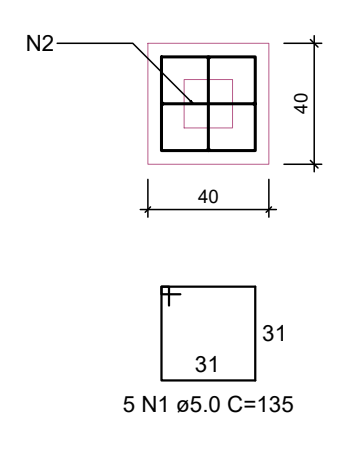


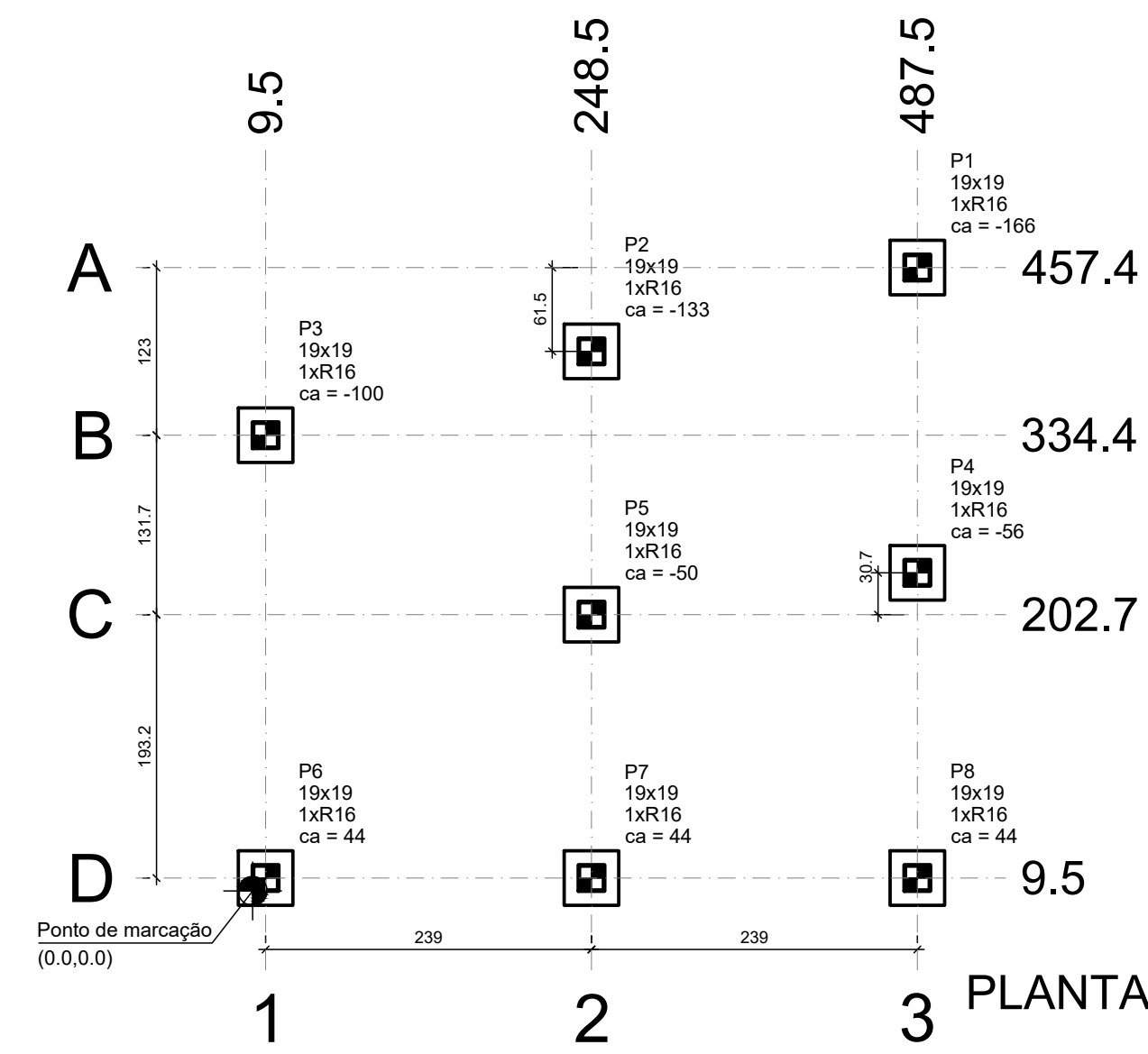
B1=B2=B3=B4=B5
1xR16
PLANTA
ESC: 1:25



RESUMO DO AÇO					
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 5% (Barras)	UNIT	PESO + 5% (kg)
CA50	10.0	25.4	3	12 m	16.4
CA60	5.0	66.2	-	rolo (170 kg)	10.7
PESO TOTAL (kg)					16.4
CA50					16.4
CA60					10.7
Volume de concreto (C-25) = 0.45 m³					
Área de forma = 6.05 m²					

DETALHAMENTO DOS BLOCOS DO NÍVEL TRAVAMENTO

ESCALA: Indicada



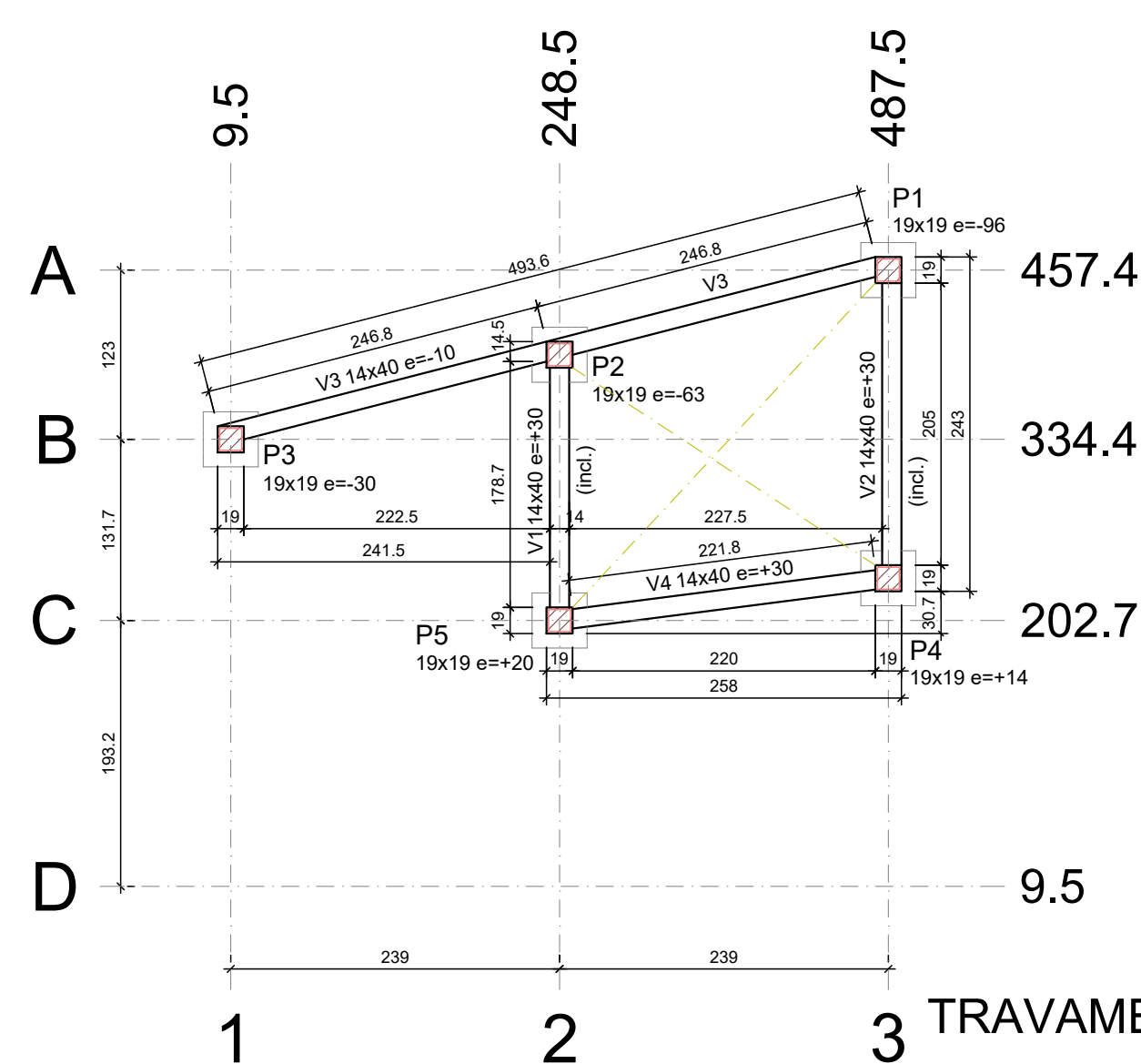
Pilar				Fundação				Bloco			
Nome	Seção (cm)	X (cm)	Y (cm)	Carga Máx. (tf)	Carga Mín. (tf)	Lado B (cm)	Lado H (cm)	h1 / hb (cm)	ne	Estaca	Base tub. (cm)
P1	19x19	487.5	457.4	3.0	2.4	40	40	40	1	R16	-166
P2	19x19	248.5	395.9	5.5	4.2	40	40	40	1	R16	-133
P3	19x19	9.5	334.4	4.8	3.7	40	40	40	1	R16	-100
P4	19x19	487.5	233.4	5.4	4.0	40	40	40	1	R16	-56
P5	19x19	248.5	202.7	6.7	4.4	40	40	40	1	R16	-50
P6	19x19	9.5	202.7	3.4	2.4	40	40	80	1	R16	44
P7	19x19	248.5	9.5	3.2	2.0	40	40	80	1	R16	44
P8	19x19	487.5	9.5	1.8	1.2	40	40	80	1	R16	44

Estacas			
Simbologia	Nome	d (cm)	b (cm)
	R16	16.00	16.00

Localização no eixo X			
Coordenadas (cm)	Nome		
9.5	P3, P6		
248.5	P2, P5, P7		
487.5	P1, P4, P8		

Localização no eixo Y			
Coordenadas (cm)	Nome		
457.4	P1		
395.9	P2		
334.4	P3		
233.4	P4		
202.7	P5		
9.5	P6, P7, P8		

LEGENDA DOS BLOCOS
ESCALA: 1/25



Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	14x40	30	35
V2	14x40	30	35
V3	14x40	-10	-5
V4	14x40	30	35

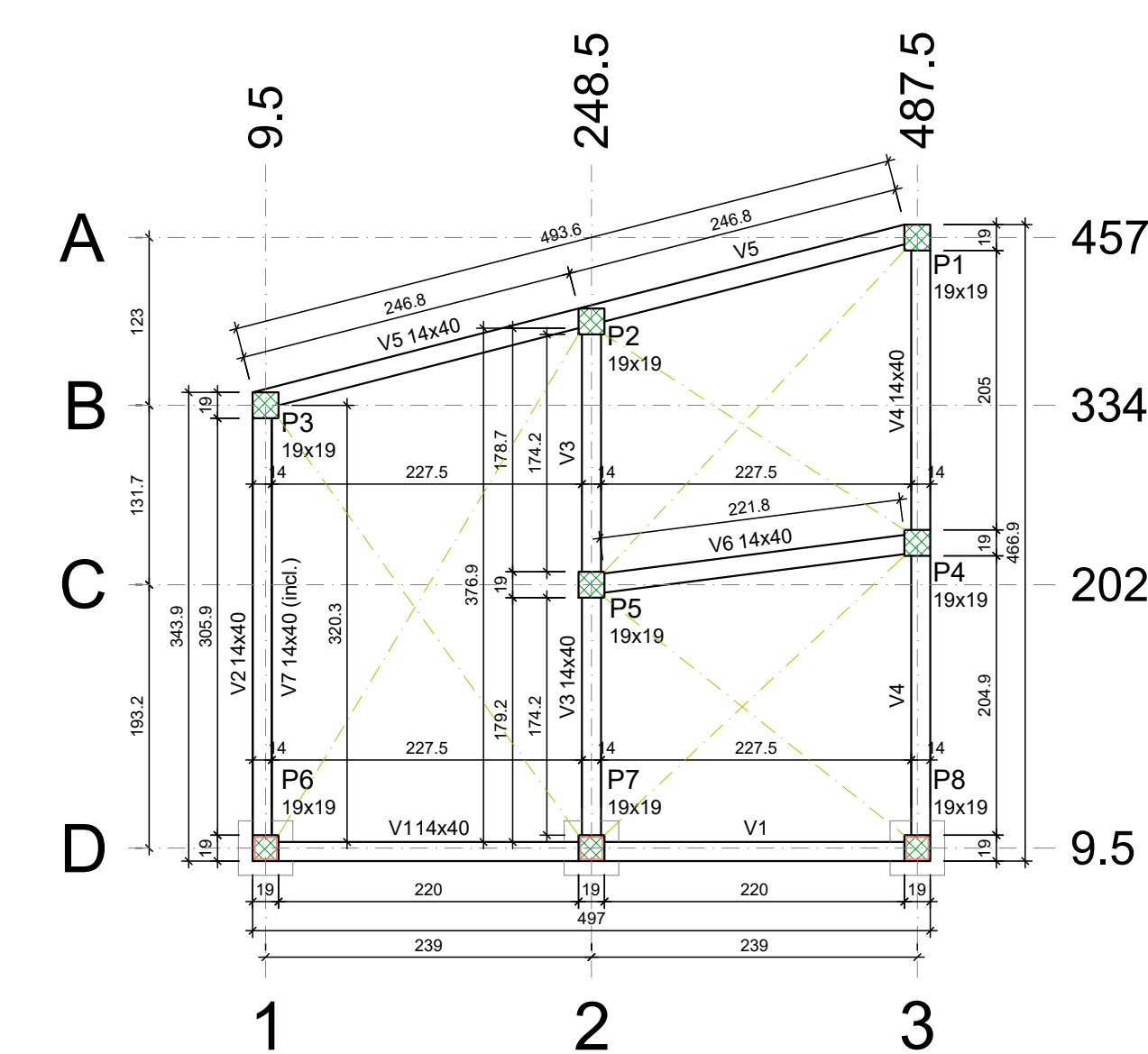
Características dos materiais		
fck (kgf/cm²)	Ecs (kgf/cm²)	Abatimento (cm)
250	241500	12.00
Dimensão máxima do agregado = 19 mm		

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	19x19	-96	-91
P2	19x19	-63	-58
P3	19x19	-30	-25
P4	19x19	14	19
P5	19x19	20	25

LEGENDA DOS PILARES
Pilar que passa

GEOMETRIA EM PLANTA DO TRAVAMENTO DOS BLOCOS (NÍVEL 5)

ESCALA: 1/50

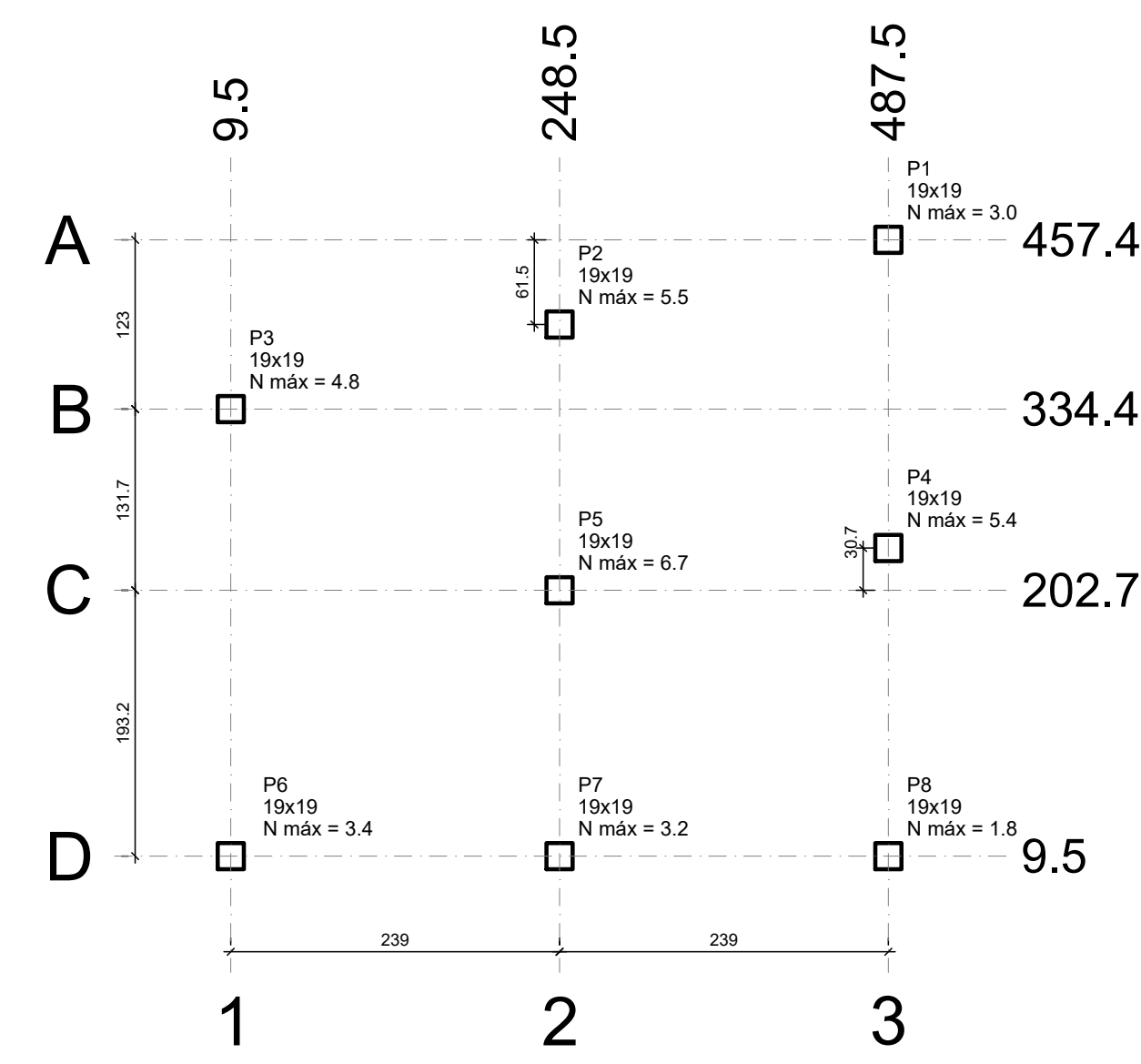


Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	14x40	0	159
V2	14x40	0	159
V3	14x40	0	159
V4	14x40	0	159
V5	14x40	0	159
V6	14x40	0	159
V7	14x40	0 / -154	159 / 5

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	19x19	0	159
P2	19x19	0	159
P3	19x19	0	159
P4	19x19	0	159
P5	19x19	0	159
P6	19x19	0	159
P7	19x19	0	159
P8	19x19	0	159

Características dos materiais		
fck (kgf/cm²)	Ecs (kgf/cm²)	Abatimento (cm)
250	241500	12.00
Dimensão máxima do agregado = 19 mm		

LEGENDA DOS PILARES
Pilar que morre



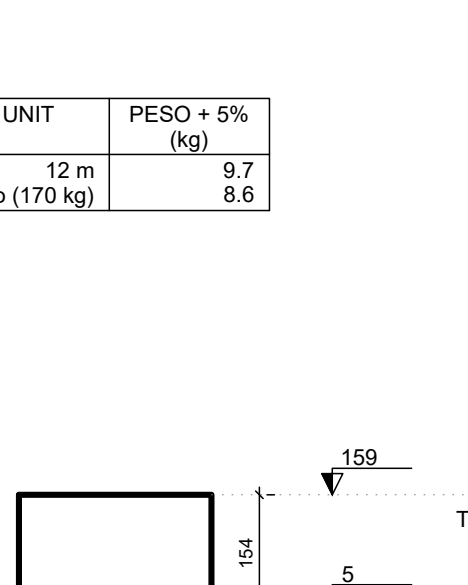
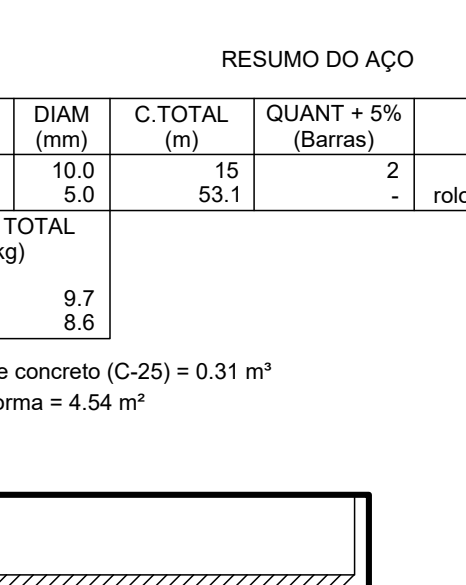
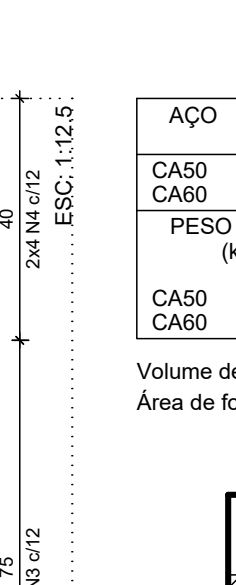
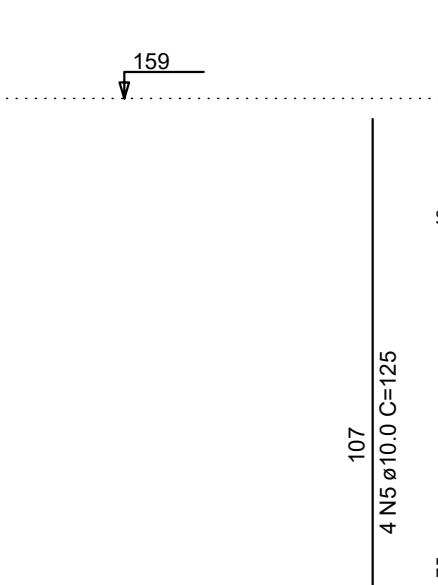
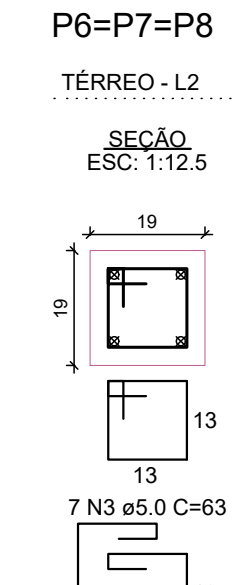
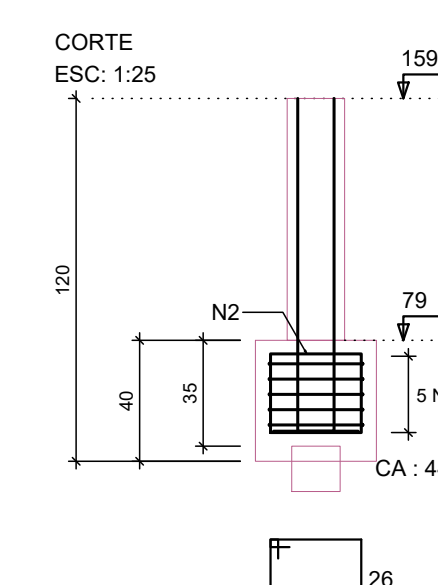
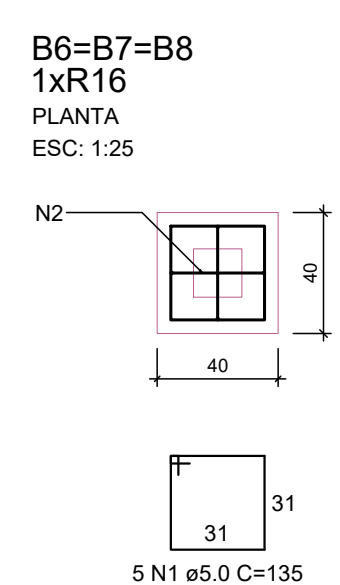
Pilar											
Nome	Seção (cm)	X (cm)	Y (cm)	Carga Máx. (tf)	Mx Máximo (kgf.m)		My Máximo (kgf.m)		Fx Máximo (tf)		Fy Máximo (tf)
					Positivo	Negativo	Positivo	Negativo	Positivo	Negativo	Positivo
P1	19x19	487.5	457.4	3.0	0	-200	100	0	0.2	0.0	0.2
P2	19x19	248.5	395.9	5.5	0	-200	100	0	0.1	-0.2	0.2
P3	19x19	9.5	334.4	4.8	0	-200	0	-200	0.0	-0.1	0.5
P4	19x19	487.5	233.4	5.4	100	0	100	0	0.2	0.0	0.1
P5	19x19	248.5	202.7	6.7	100	0	100	0	0.1	-0.2	0.1
P6	19x19	9.5	202.7	3.4	200	0	100	-200	0.0	-0.3	0.0
P7	19x19	248.5	9.5	3.2	100	0	100	0	0.1	0.0	0.0
P8	19x19	487.5	9.5	1.8	200	0	200	0	0.2	0.0	0.0

Os esforços indicados nesta tabela são os valores máximos obtidos pela envoltória de todas as combinações definidas para as fundações. Para análises complementares, deve-se consultar o relatório de esforços na fundação, que apresenta os valores calculados para cada combinação.

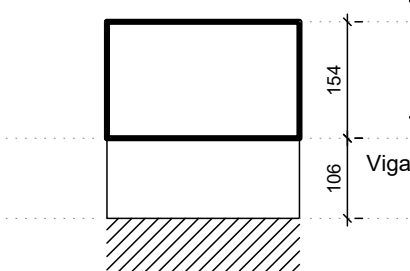
Localização no eixo X		Localização no eixo Y	
Coordenadas (cm)	Nome	Coordenadas (cm)	Nome
9.5	P3, P6	457.4	P1
248.5	P2, P5, P7	395.9	P2
487.5	P1, P4, P8	334.4	P3
		233.4	P4
		202.7	P5
		9.5	P6, P7, P8

GEOMETRIA EM PLANTA DO TÉRREO (NÍVEL 159)

ESCALA: 1/50



RESUMO DO AÇO					
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 5% (Barras)	UNIT	PESO + 5% (kg)
CA50	10.0	15	2	12 m	9.7
CA60	5.0	53.1	-	rolo (170 kg)	8.6
PESO TOTAL (kg)					9.7
CA50					9.7
CA60					8.6
Volume de concreto (C-25) = 0.31 m³					
Área de forma = 4.54 m²					



CORTE XX CORTE YY

ESCALA: 1/100

DETALHAMENTO DOS BLOCOS DO TÉRREO

ESCALA: Indicada



Prefeitura Municipal de Tubarão

Secretaria de Urbanismo

PROJETO ESTRUTURAL

OBJETO: PARQUE CULTURAL - DEQUES

ASSUNTO: GEOMETRIAS, DETALHES, LOCAÇÃO, CORTES ESQUEMÁTICOS E PLANTA DE CARGAS

ESCALA: Indicada

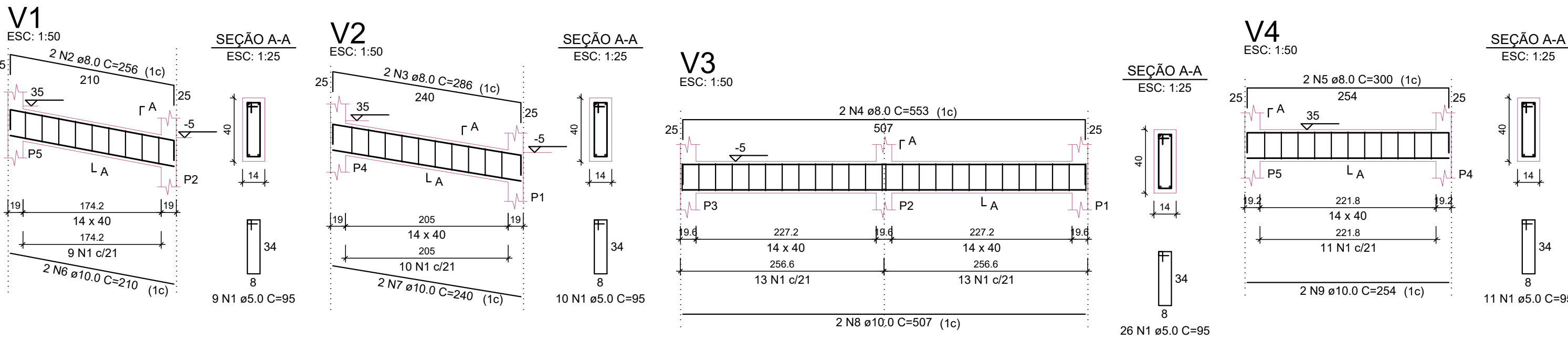
DATA: Nov/2021

ARQUIVO: est_Deques Parque Cultural.dwg

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0108



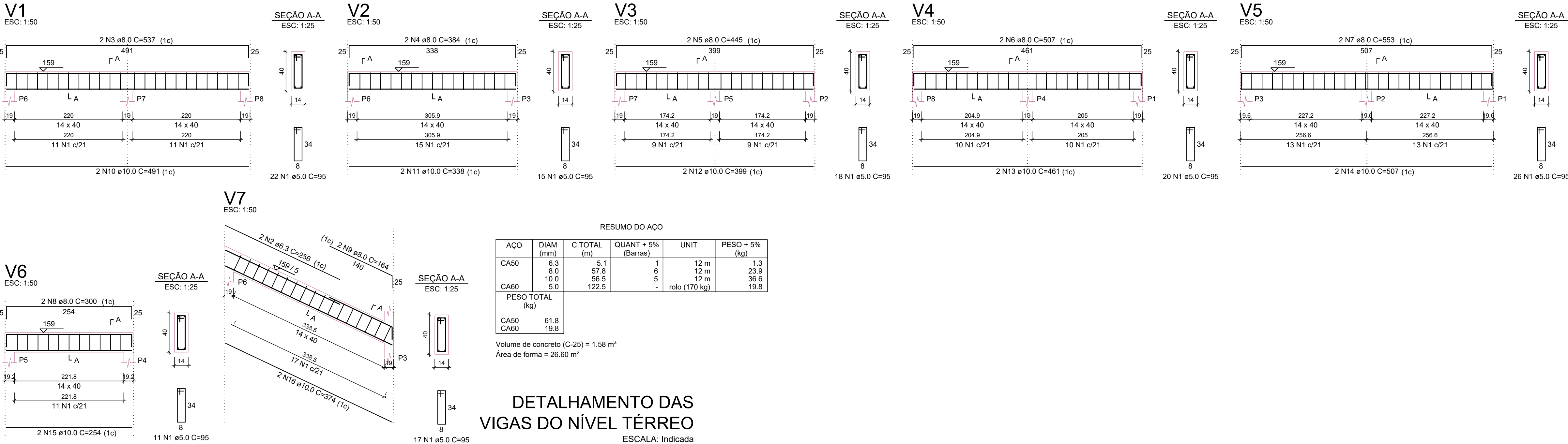
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 5% (Barras)	UNIT	PESO + 5% (kg)
CA50	8.0	27.9	3	12 m	11.6
CA60	10.0	24.2	3	12 m	15.7
	5.0	53.2	-	rolo (170 kg)	8.6
PESO TOTAL (kg)					
CA50		27.2			
CA60		8.6			

Volume de concreto (C-25) = 0.69 m³
Área de forma = 11.55 m²

DETALHAMENTO DAS VIGAS DO NÍVEL TRAVAMENTO

ESCALA: Indicada



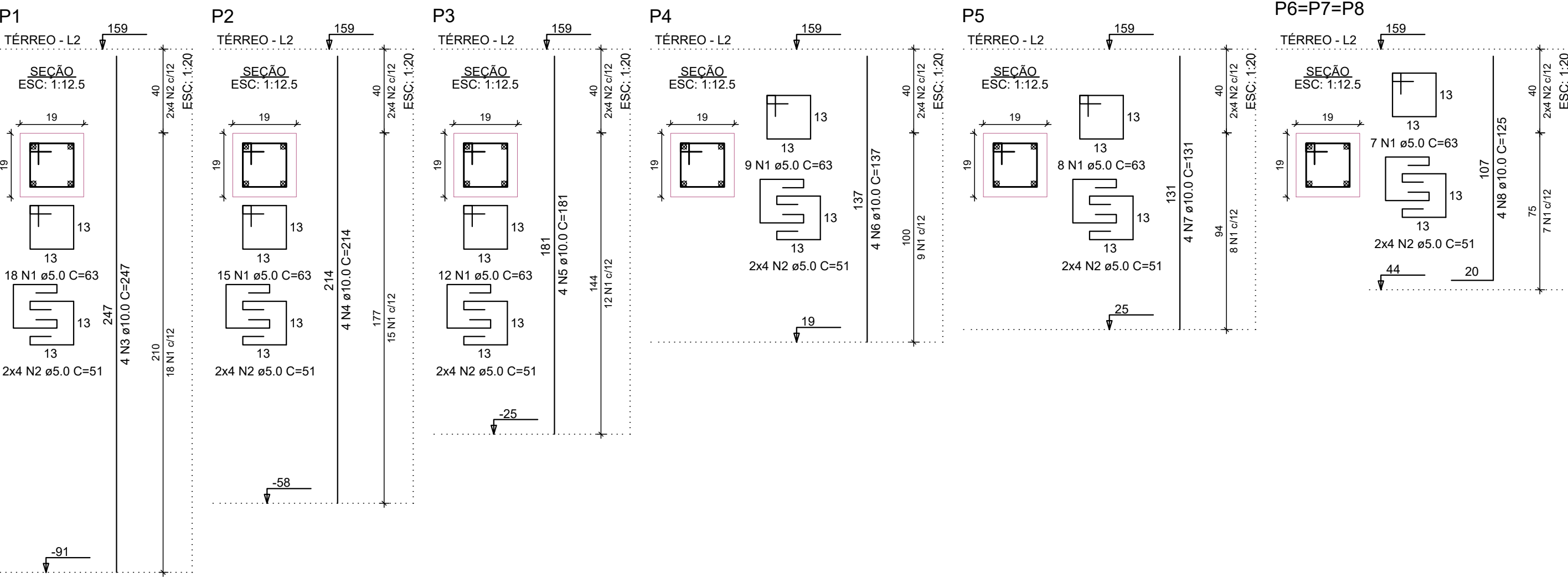
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 5% (Barras)	UNIT	PESO + 5% (kg)
CA50	6.3	5.1	1	12 m	1.3
	8.0	57.8	6	12 m	23.9
	10.0	56.5	5	12 m	36.6
CA60	5.0	122.5	-	rolo (170 kg)	19.8
PESO TOTAL (kg)					
CA50		61.8			
CA60		19.8			

Volume de concreto (C-25) = 1.58 m³
Área de forma = 26.60 m²

DETALHAMENTO DAS VIGAS DO NÍVEL TÉRREO

ESCALA: Indicada



RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 5% (Barras)	UNIT	PESO + 5% (kg)
CA50	10.0	51.4	5	12 m	33.3
CA60	5.0	84.9	-	rolo (170 kg)	13.7
PESO TOTAL (kg)					
CA50		33.3			
CA60		13.7			

Volume de concreto (C-25) = 0.46 m³
Área de forma = 9.65 m²

DETALHAMENTO DOS PILARES DO TÉRREO

ESCALA: Indicada

 **Prefeitura Municipal de Tubarão**
Secretaria de Urbanismo

PROJETO ESTRUTURAL

OBJETO: Parque Cultural - DEQUES

ENDEREÇO: Trecho entre Ruas Tubalcain Faraco e Professora Eugênia dos Reis Perito - Tubarão/SC

ASSUNTO: DETALHAMENTO DE VIGAS E PILARES

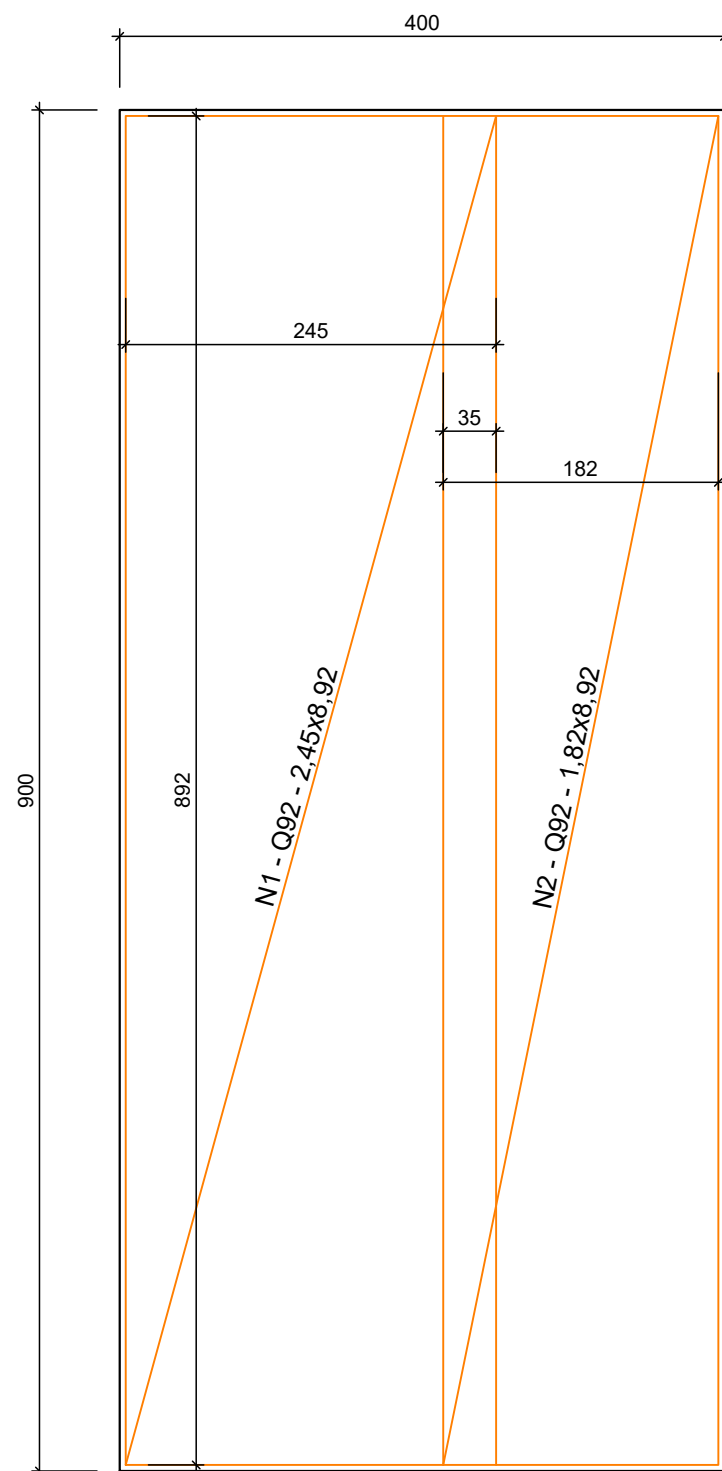
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RICHARD RODRIGUES ALEXANDRE Engenheiro Civil - CREA/SC nº 044.062-2

ESCALA: Indicada DATA: Nov/2021 ARQUIVO: est_Deques Parque Cultural.dwg

02
08

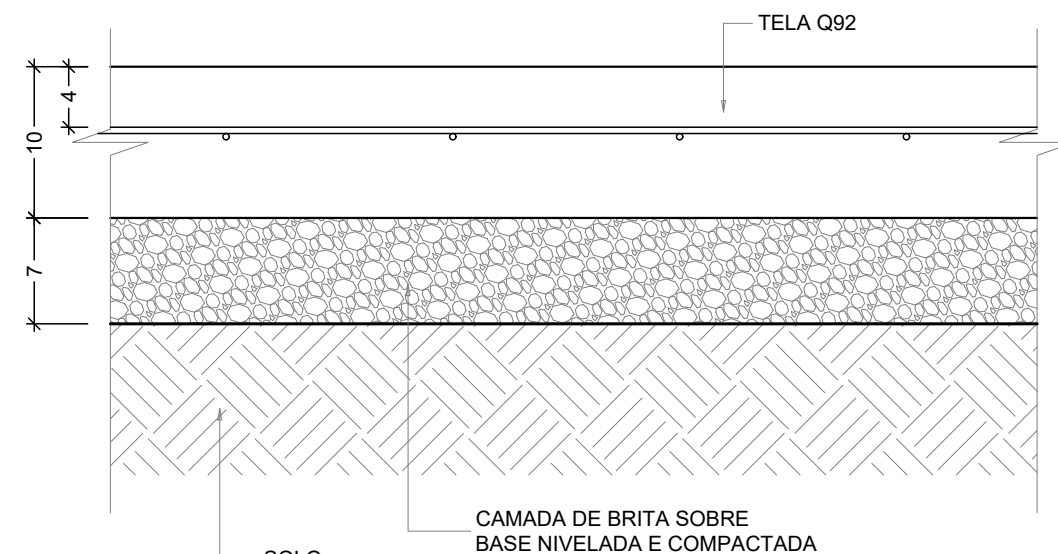


ESPECIFICAÇÃO DAS TELAS						
DESIGNAÇÃO	ESPAÇAMENTO (cm)		Ø (mm)		APRESENTAÇÃO	PESO (kg/PC)
	LONG.	TRANS.	LONG.	TRANS.		
Q92	15	15	4.2	4.2	ROLO 2.45 x 60 m	218

RELAÇÃO DAS TELAS				
POS.	DESIGNAÇÃO	QUANT.	DIMENSÕES	ÁREA (m²)
N1	Q92	1	2.45x8.92	21.85
N2		1	1.82x8.92	16.23
			TOTAL	38.08

RESUMO DAS TELAS			
AÇO	DESIGNAÇÃO	QUANT. ROLOS	DIMENSÕES (m)
CA 60	Q92	0.30	2.45 x 60.00
PESO TOTAL		65.4 Kg	

COBRIMENTO DA ARMADURA = 4cm
VOLUME DE BRITA = 2.77m³ (10% PERDA)
VOLUME DE CONCRETO (C25) = 3.60m³
ÁREA DE FORMA = 5.20m²



PERFIL TRANSVERSAL
ESCALA: 1/5

DETALHAMENTO TELAS
ESCALA: 1/50



Prefeitura Municipal de Tubarão

Secretaria de Urbanismo

PROJETO ESTRUTURAL

OBJETO:

PARQUE CULTURAL - BASE PARA AS ACADEMIAS

ASSUNTO:

DETALHAMENTO DAS ARMADURAS E CORTE

ESCALA:

Indicada

DATA:

Nov/2021

ARQUIVO:

Base das Academias.dwg

ENDEREÇO:

Trecho entre Ruas Tubalcaim Faraco e Professora Eugênia dos Reis Perito - Tubarão/SC

RESP. TÉCNICO:

RICHARD RODRIGUES

Alexandre:88945367934

7934

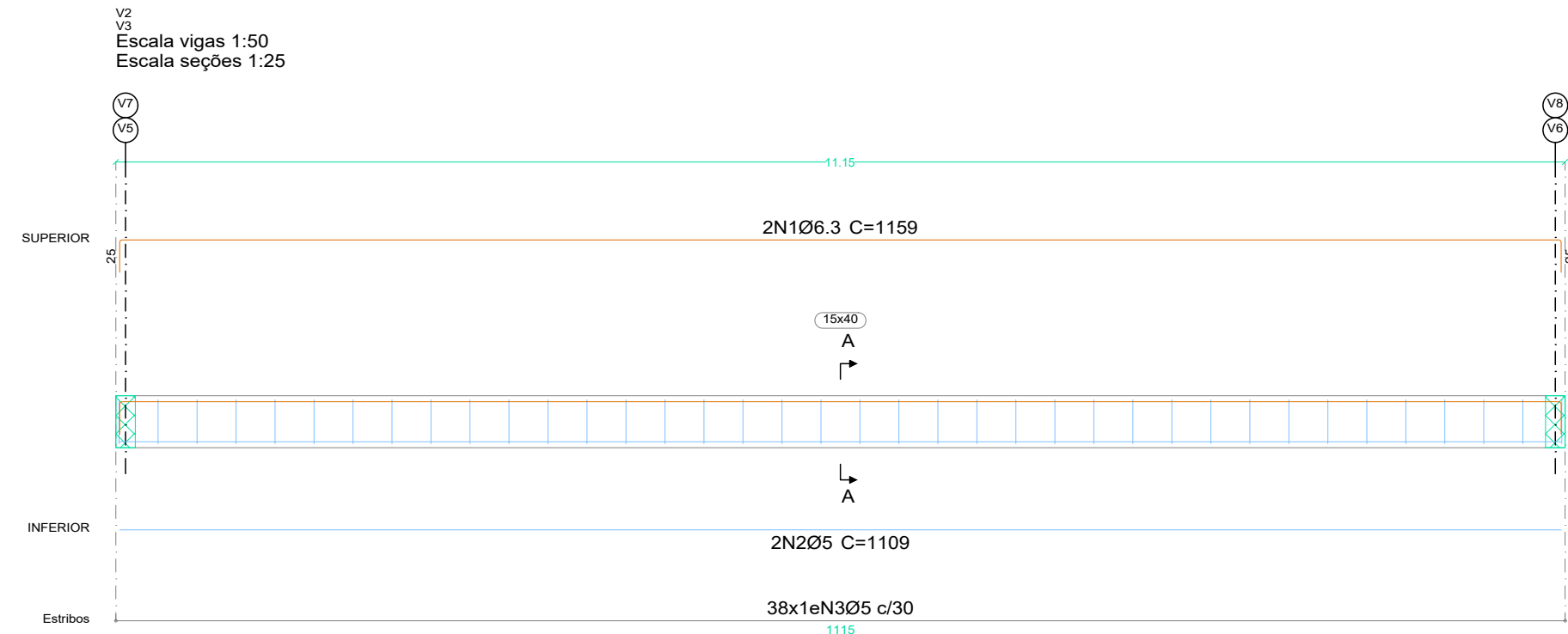
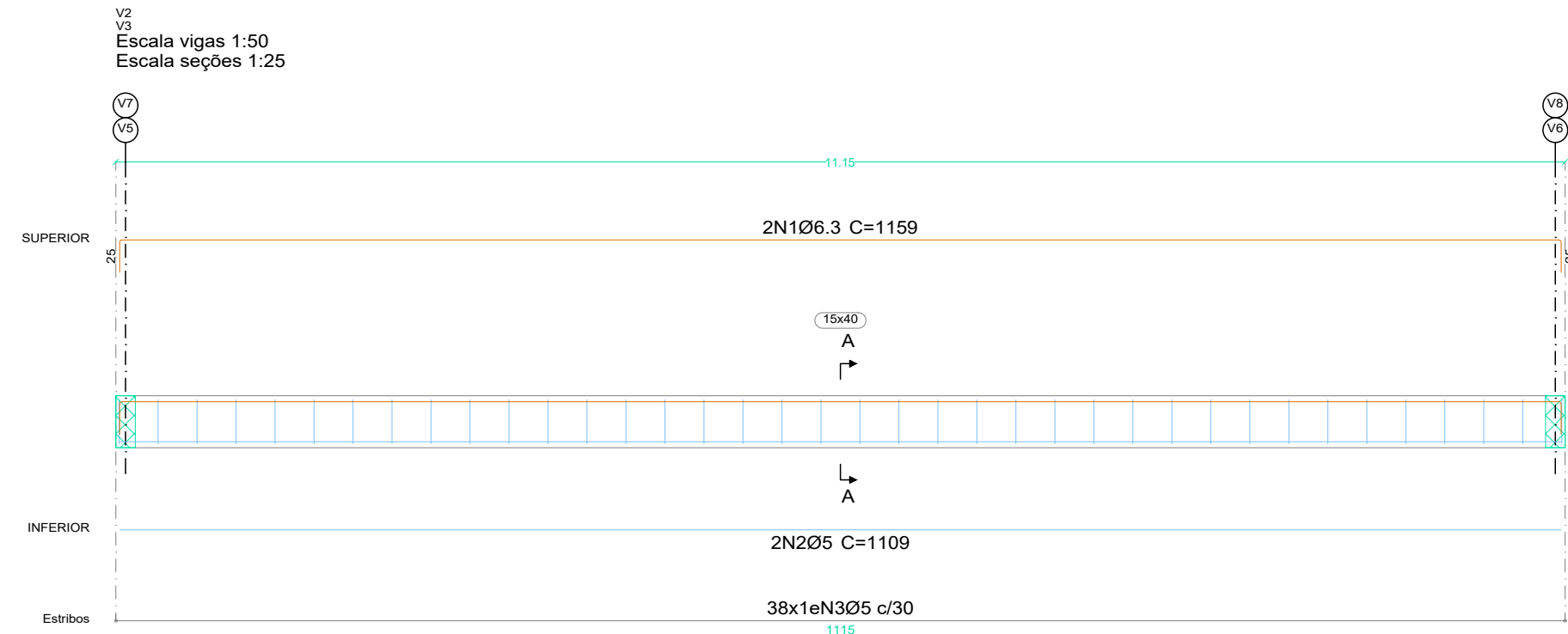
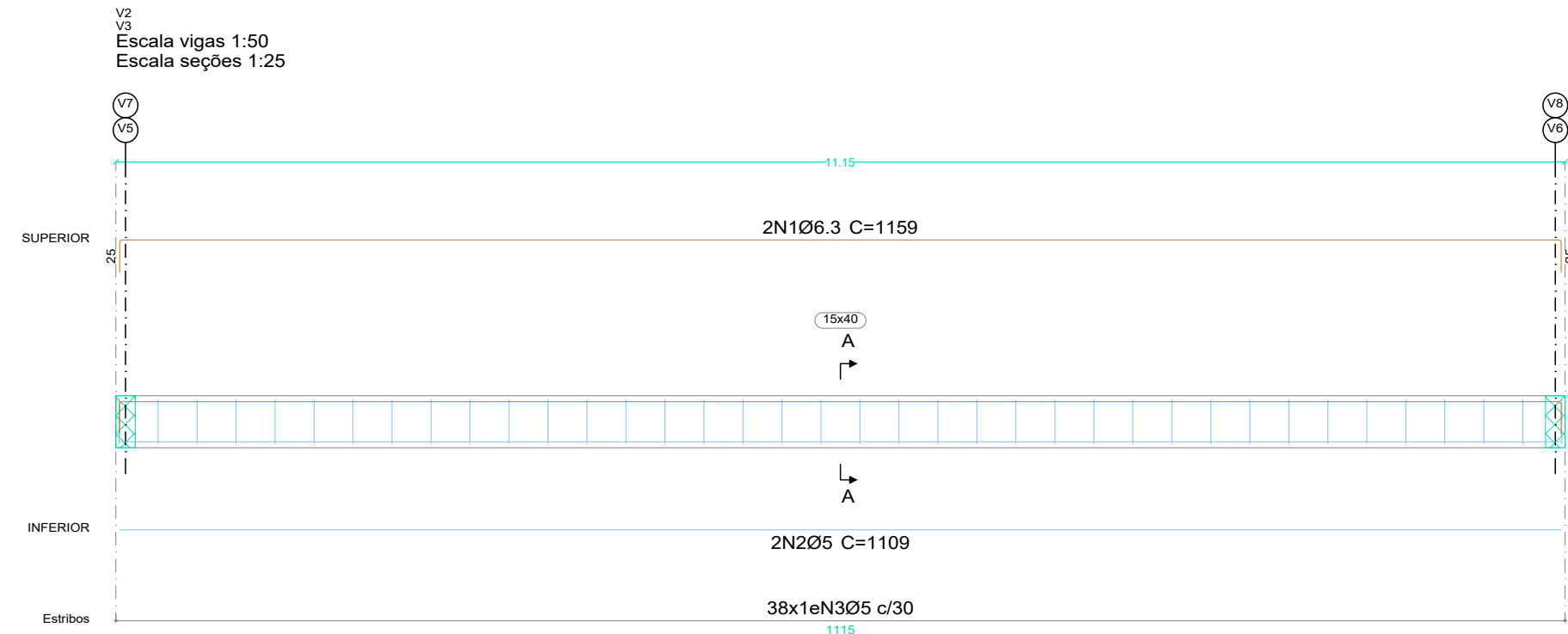
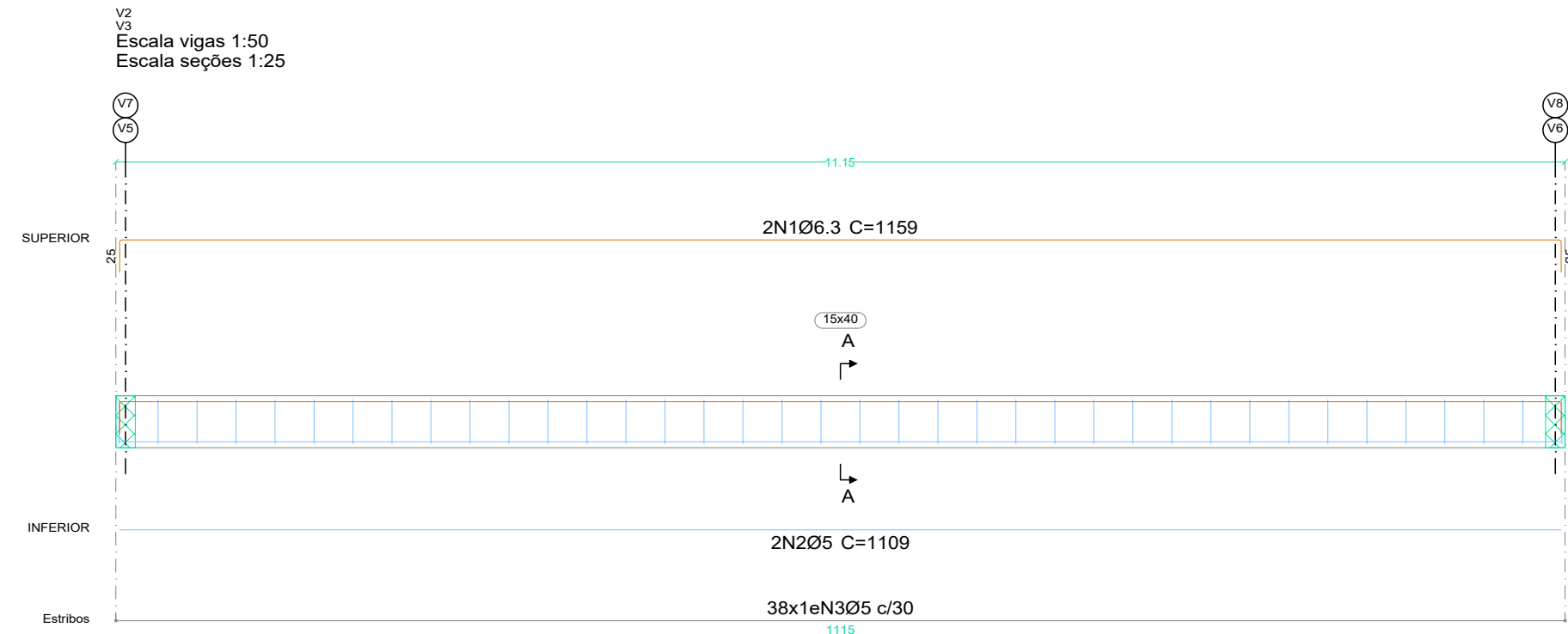
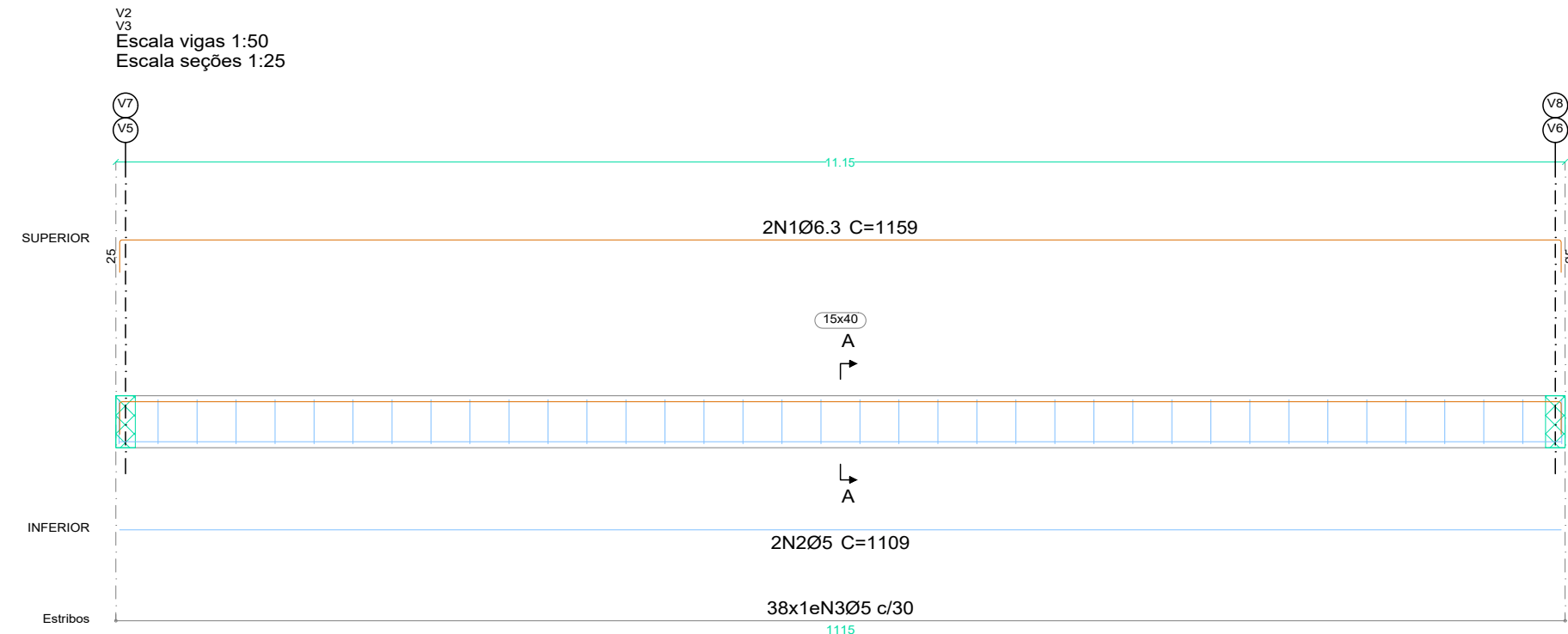
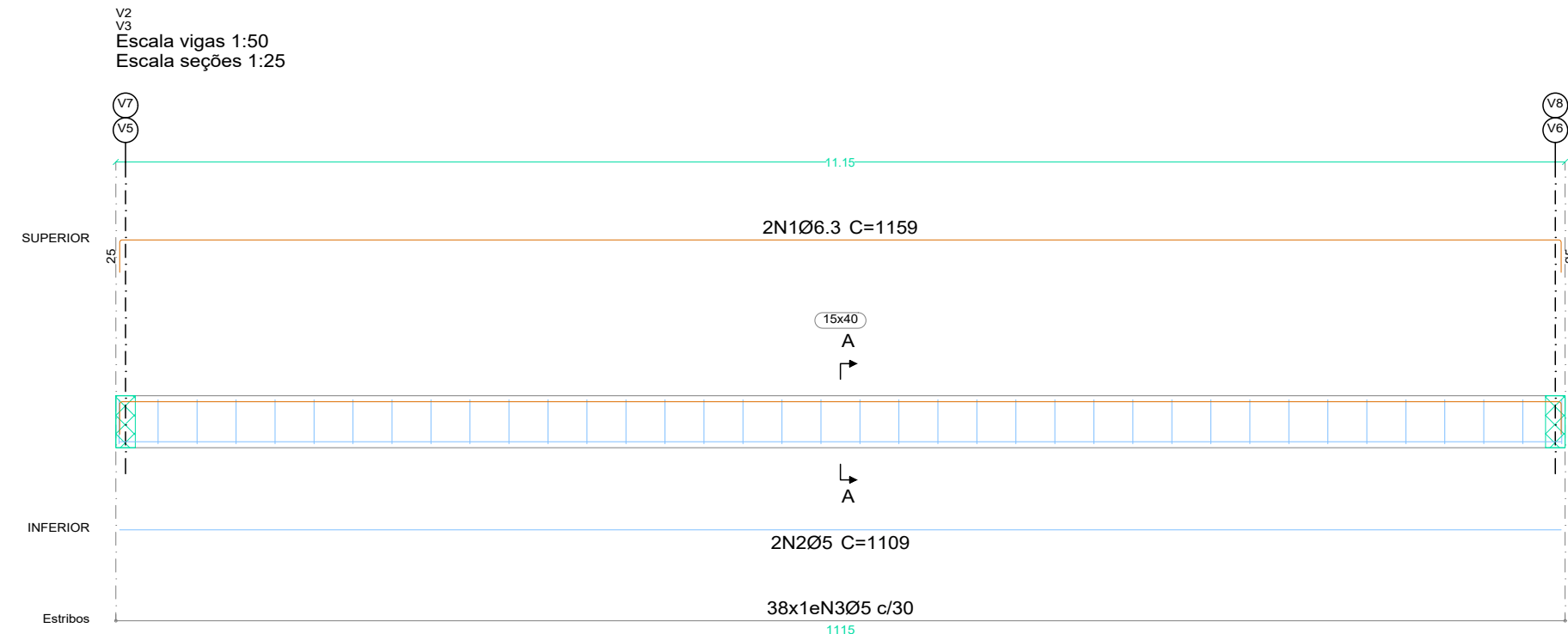
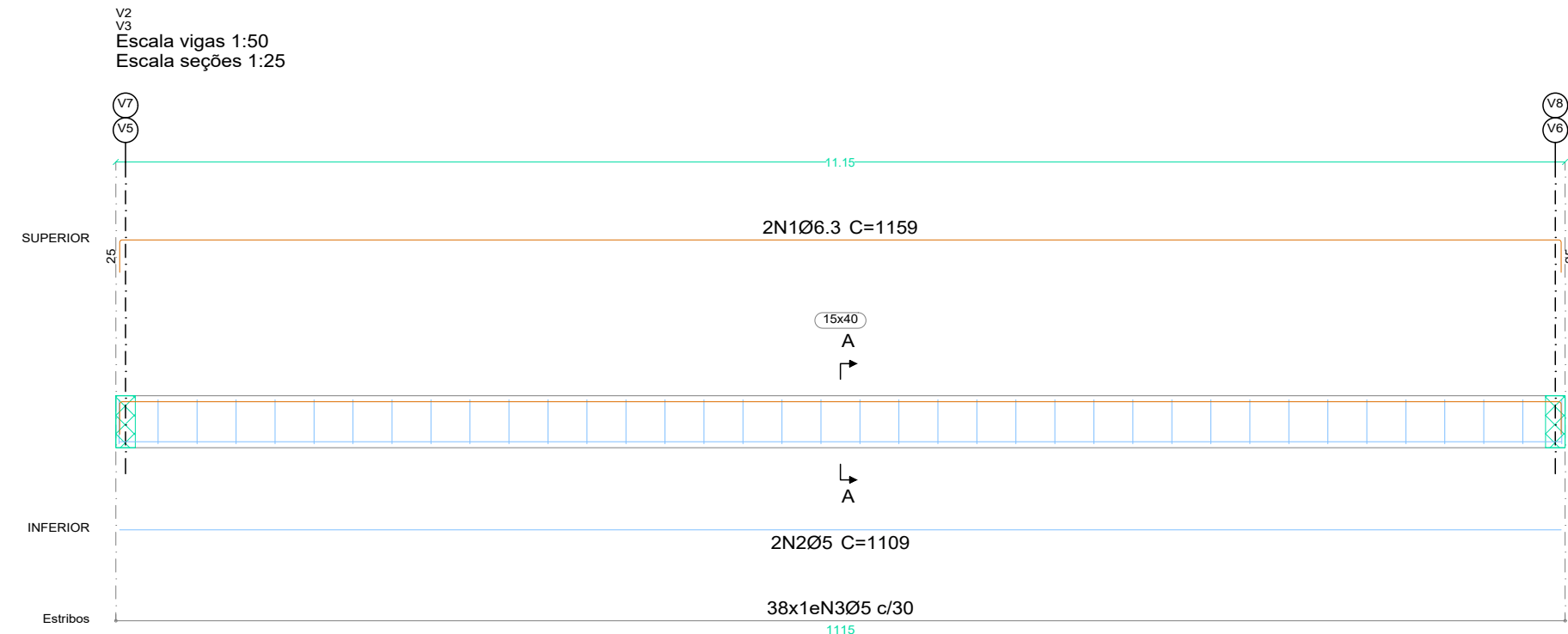
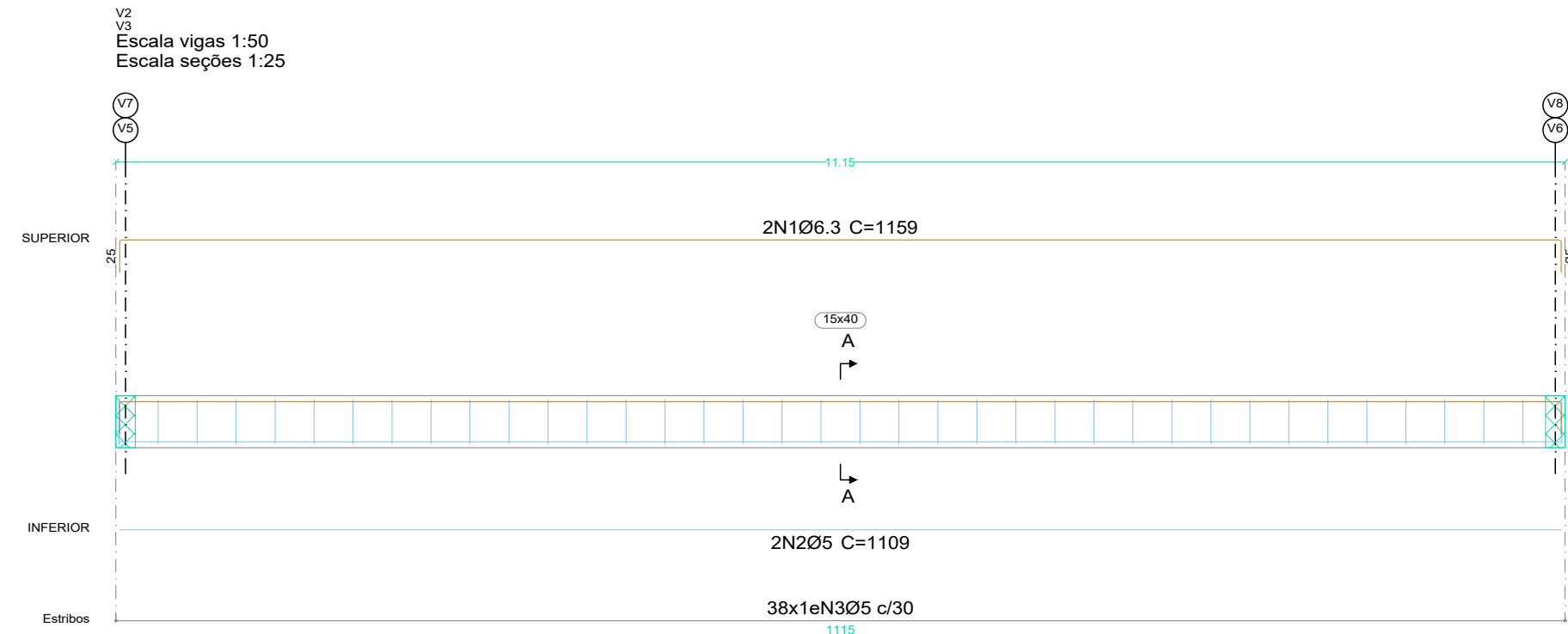
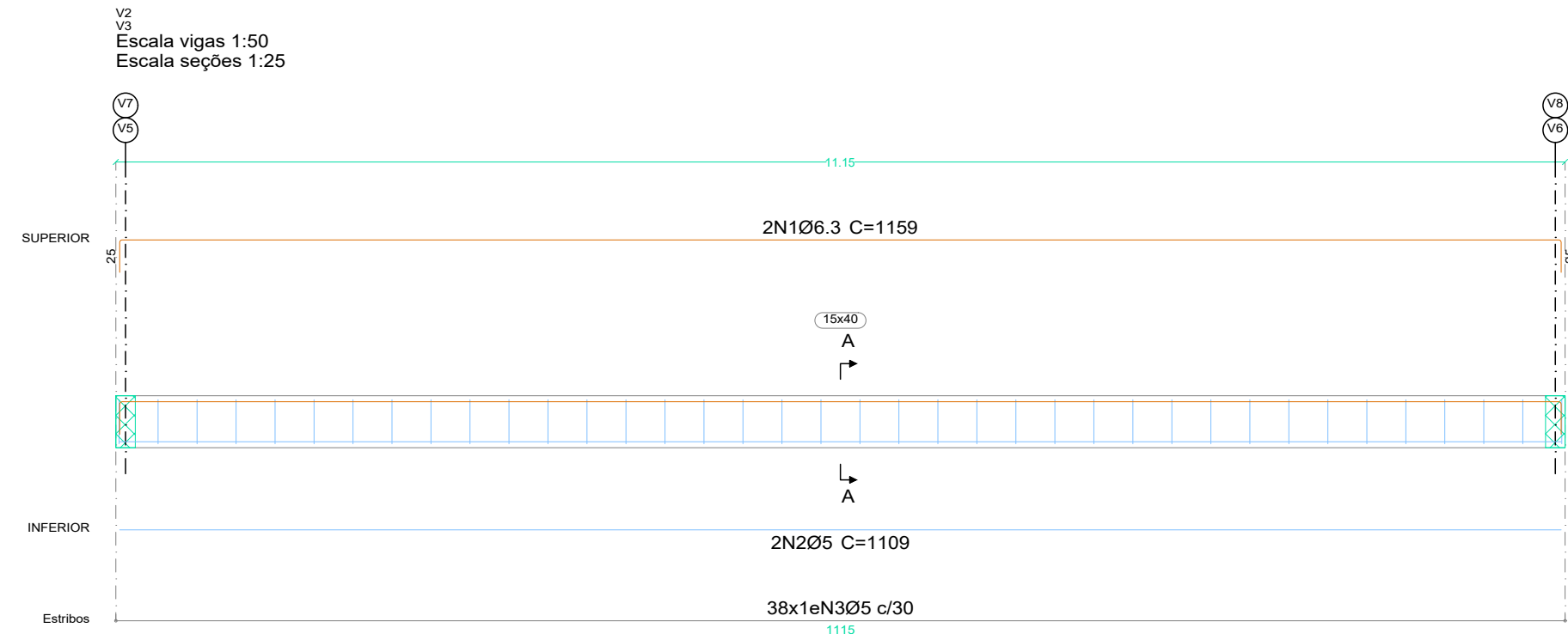
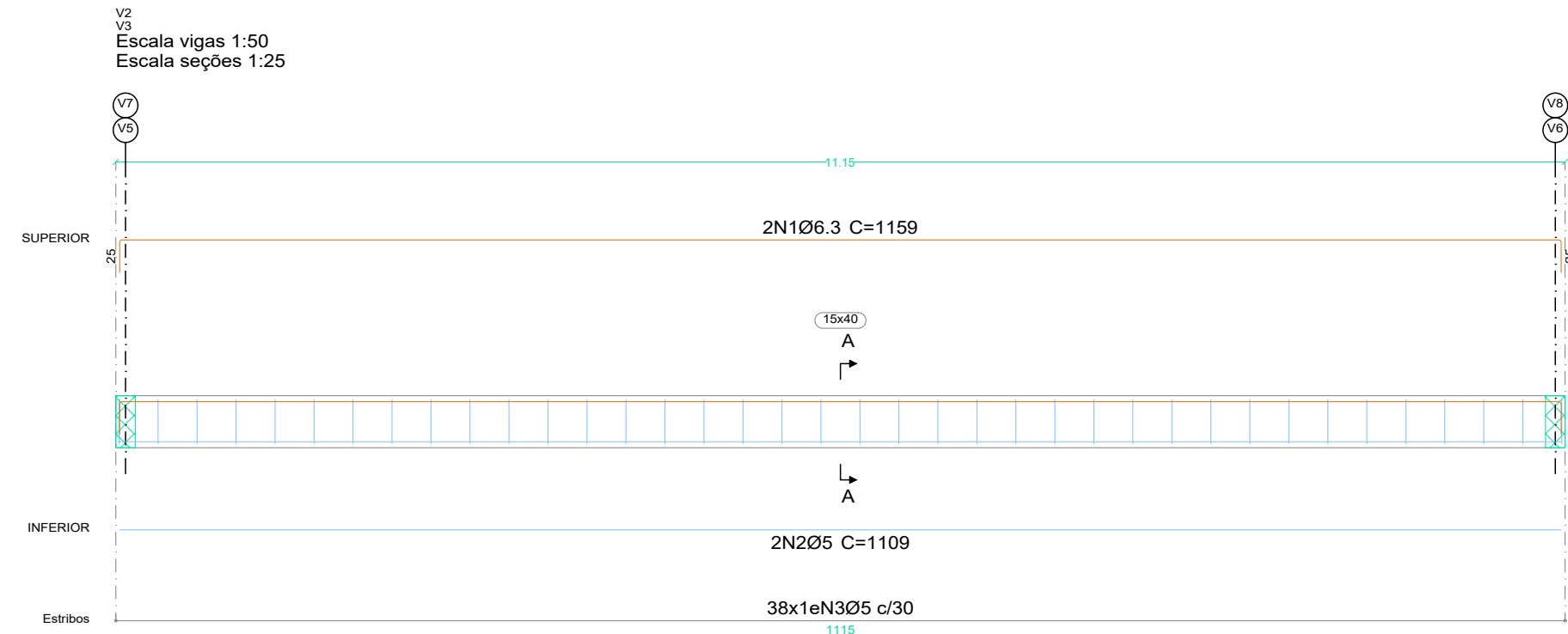
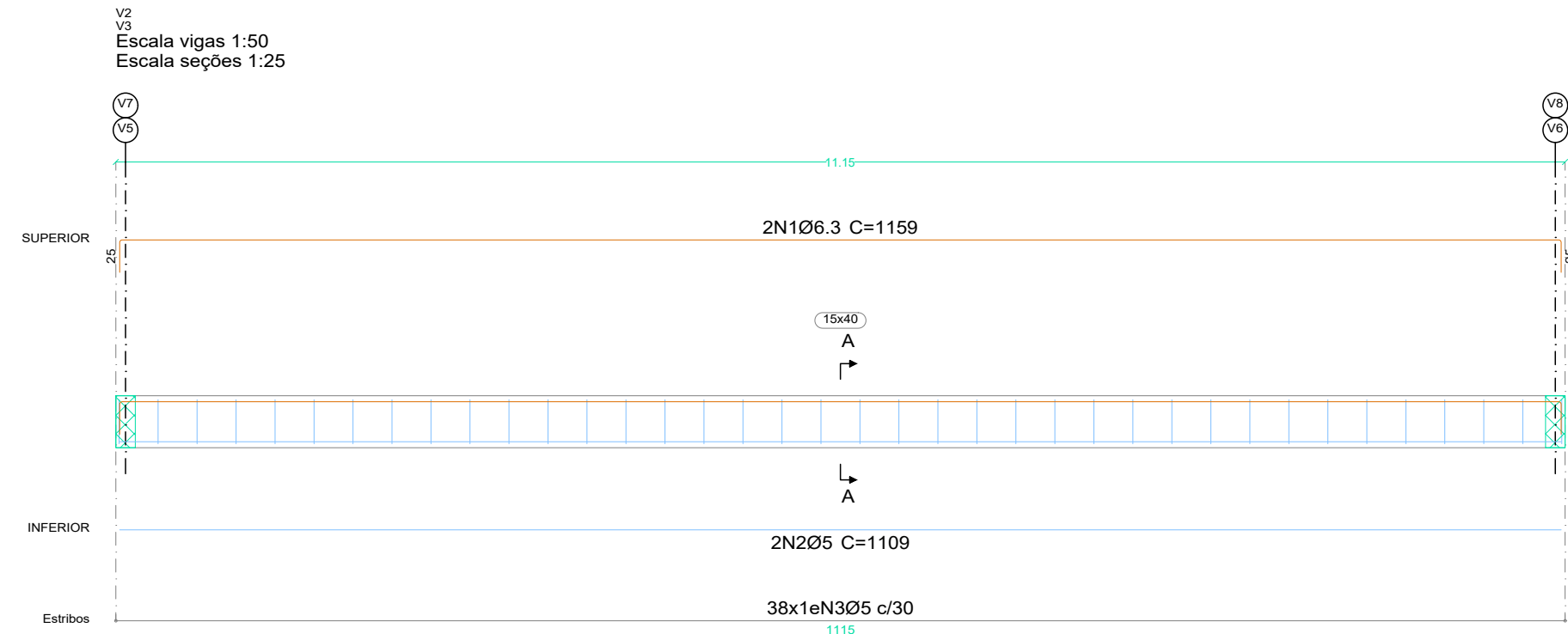
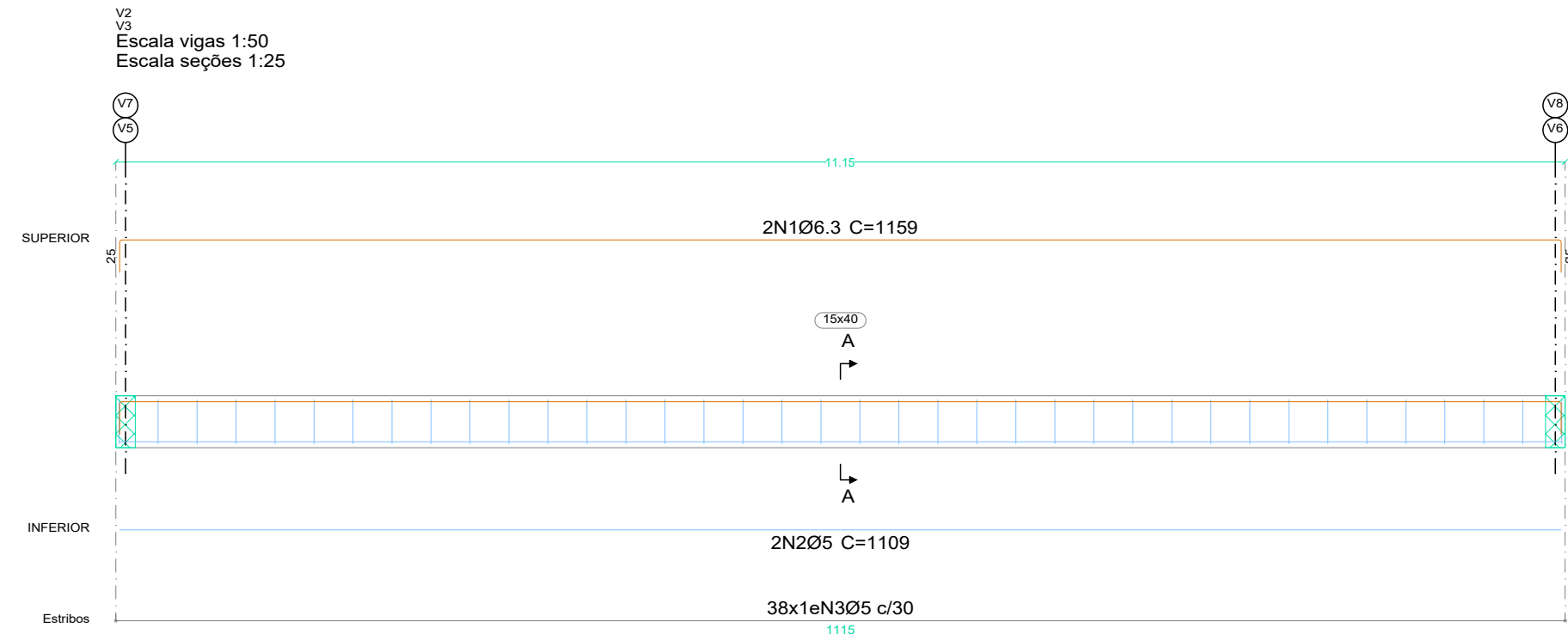
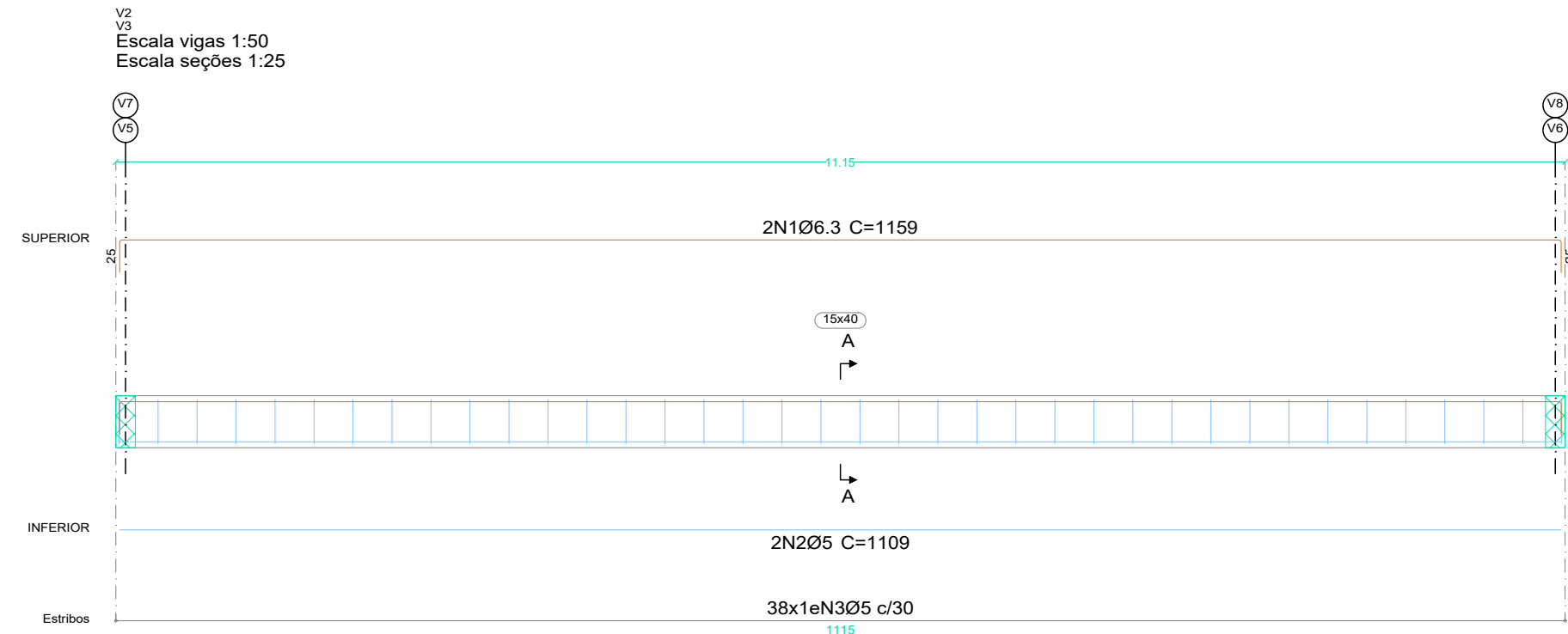
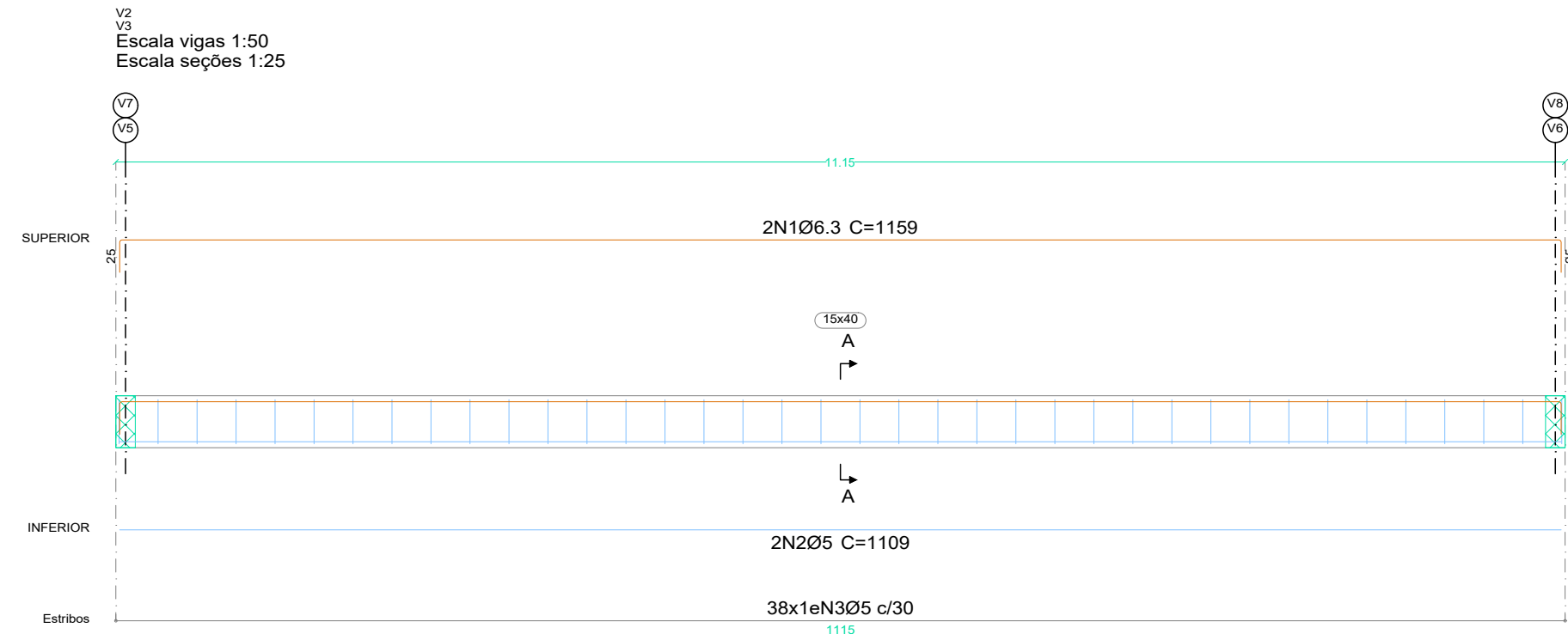
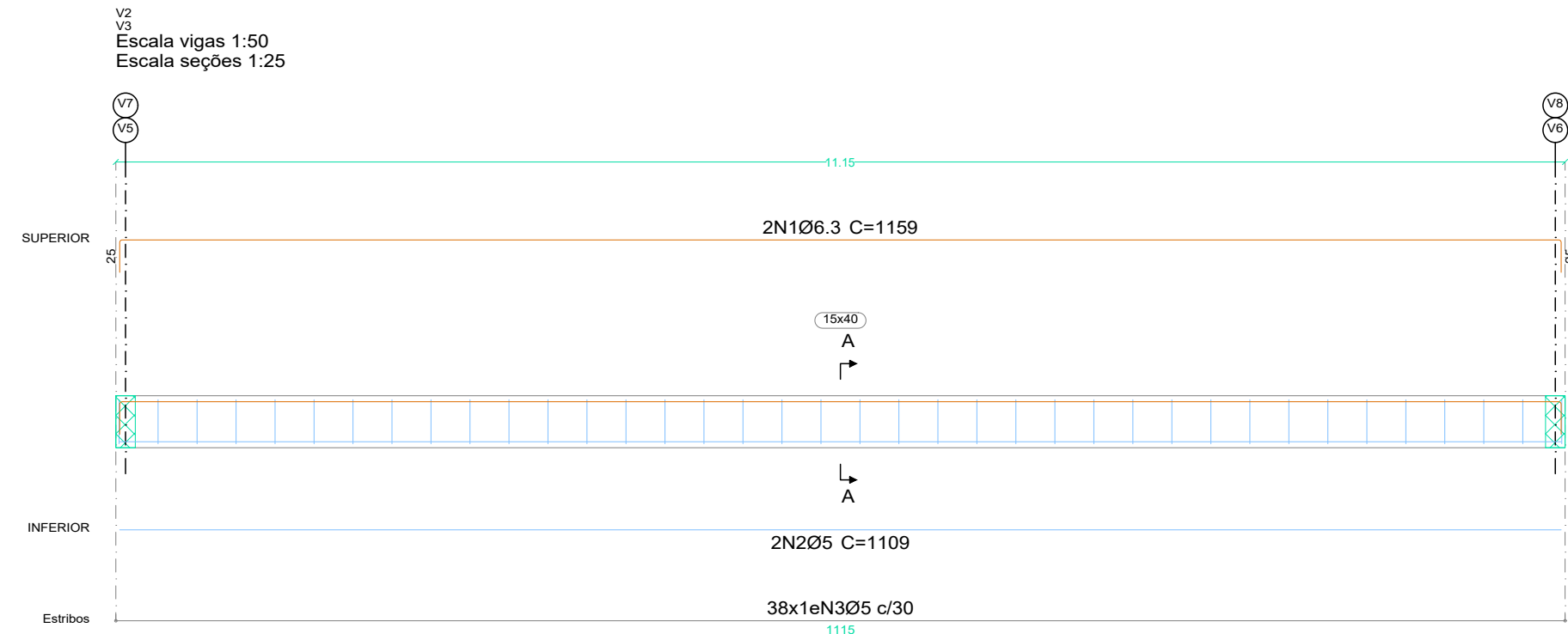
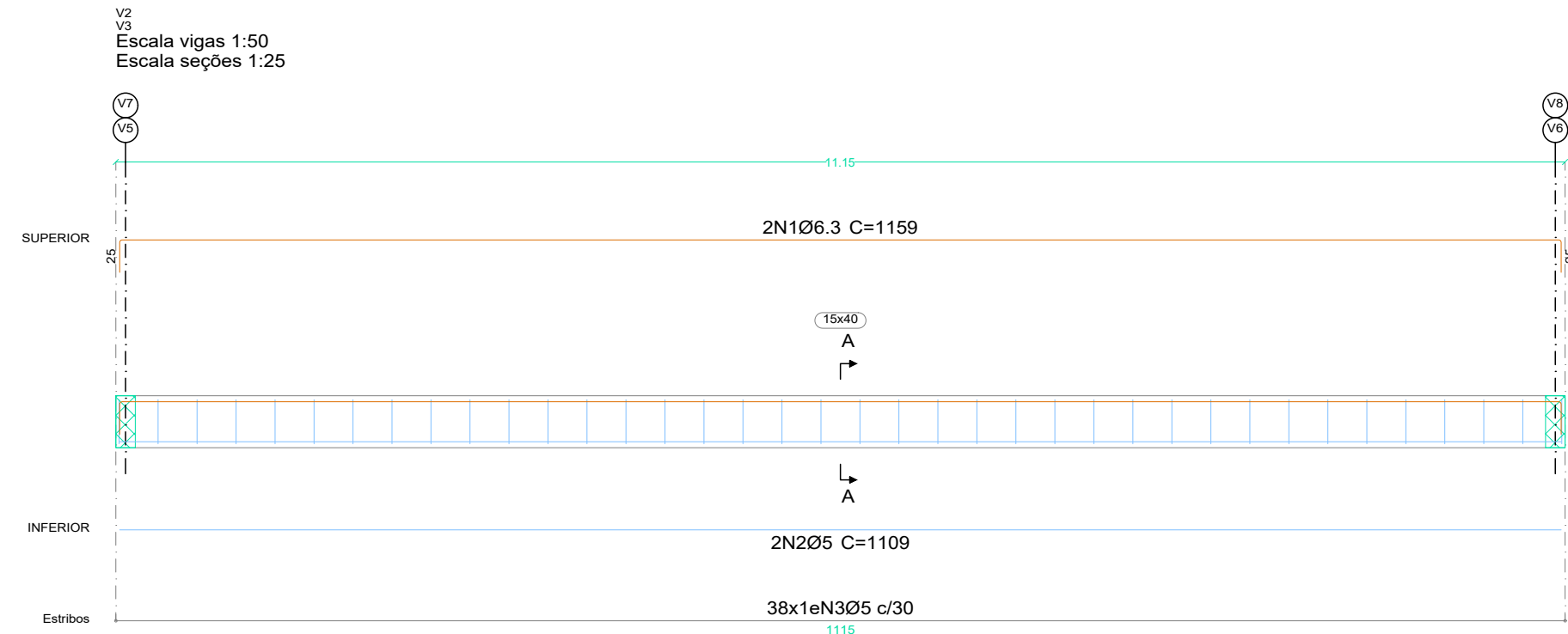
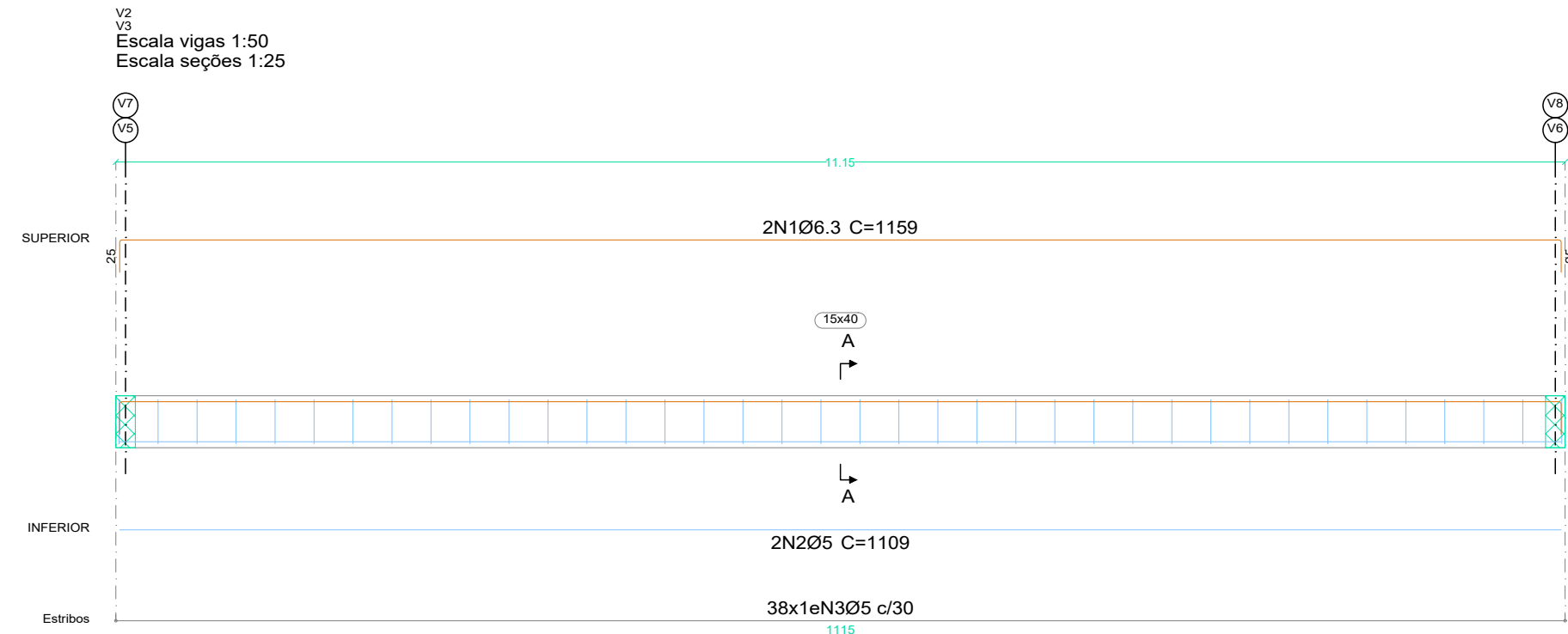
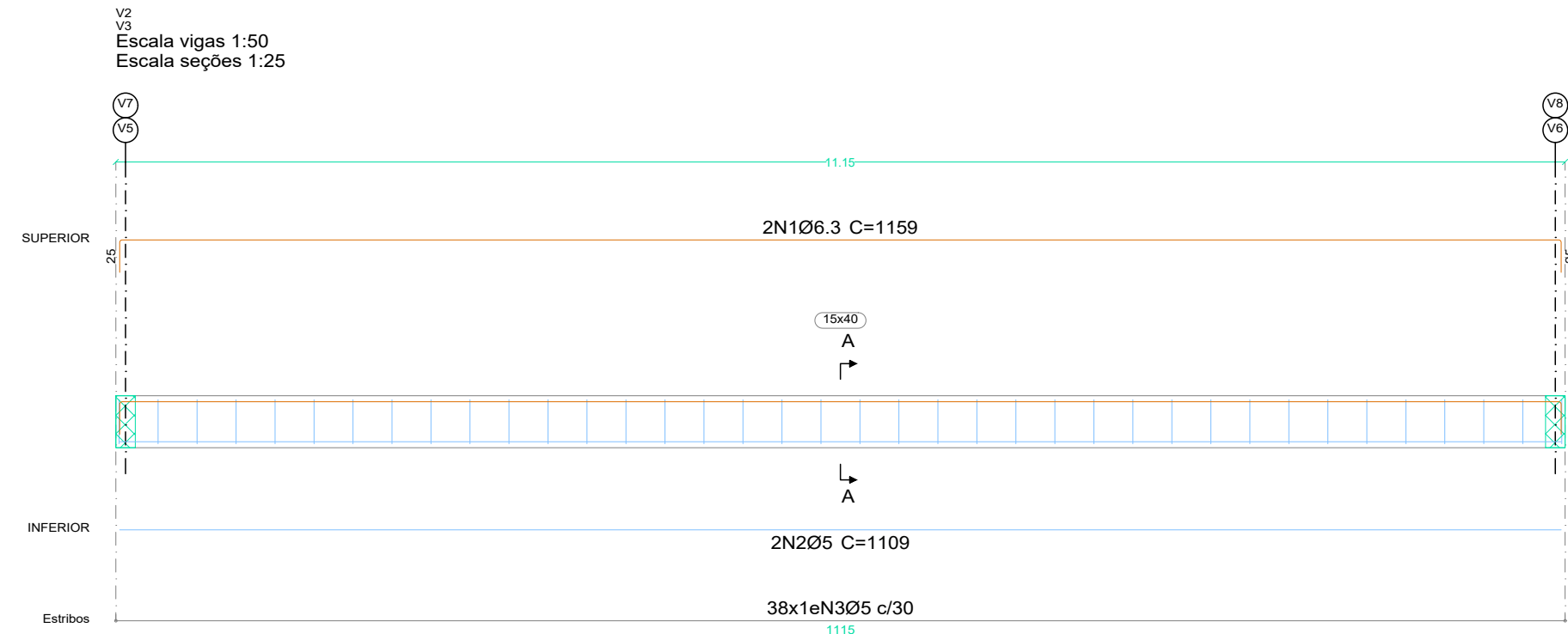
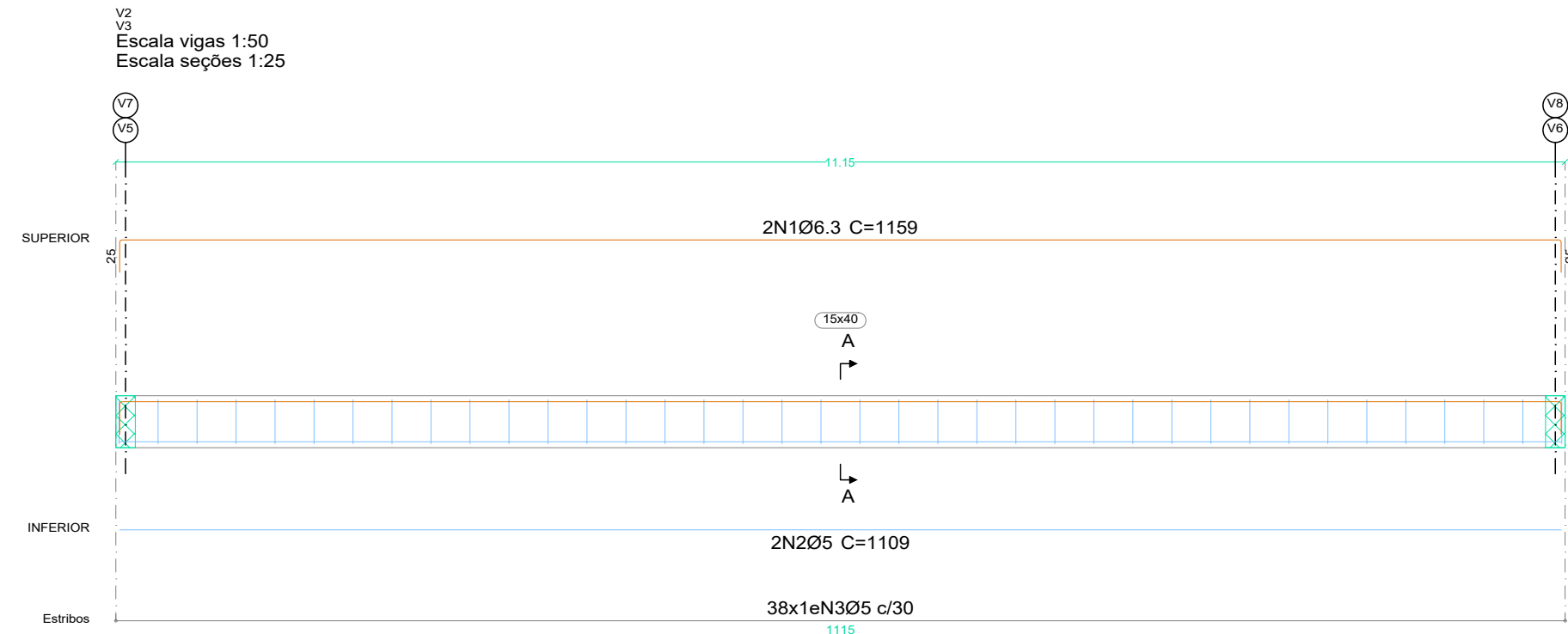
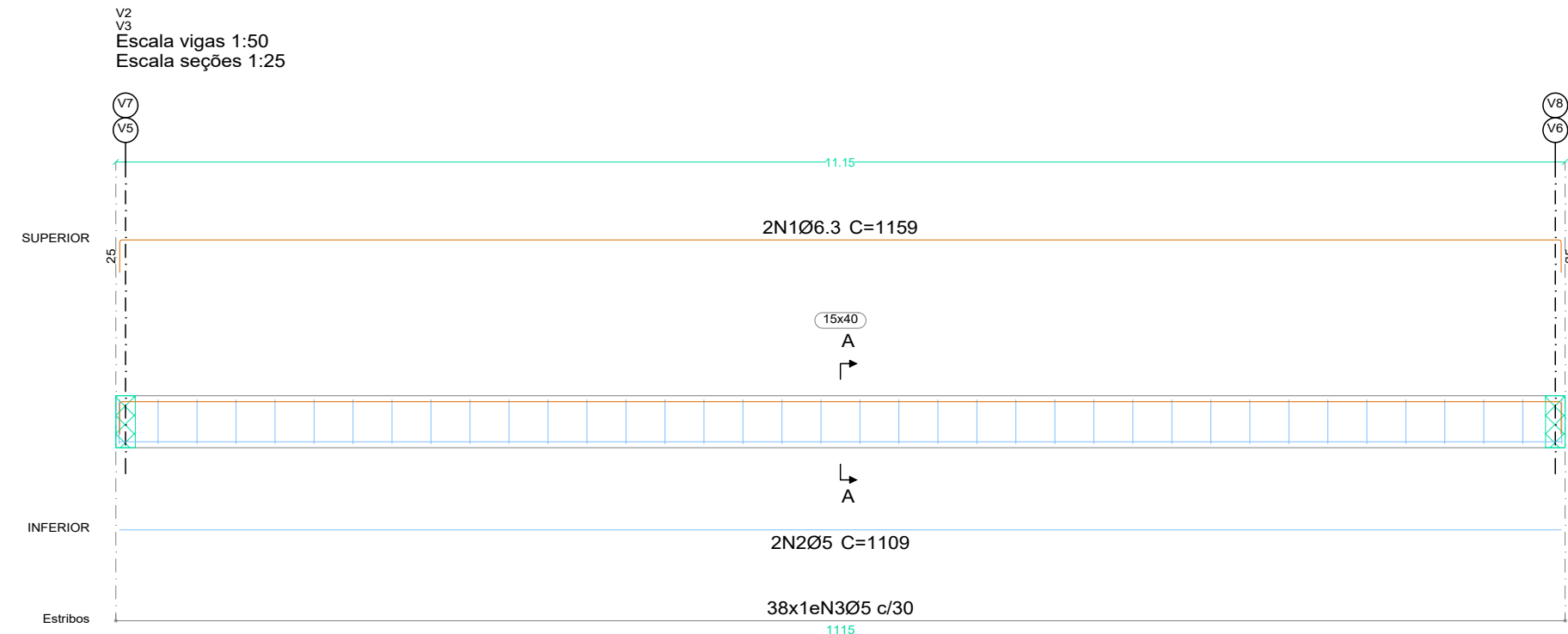
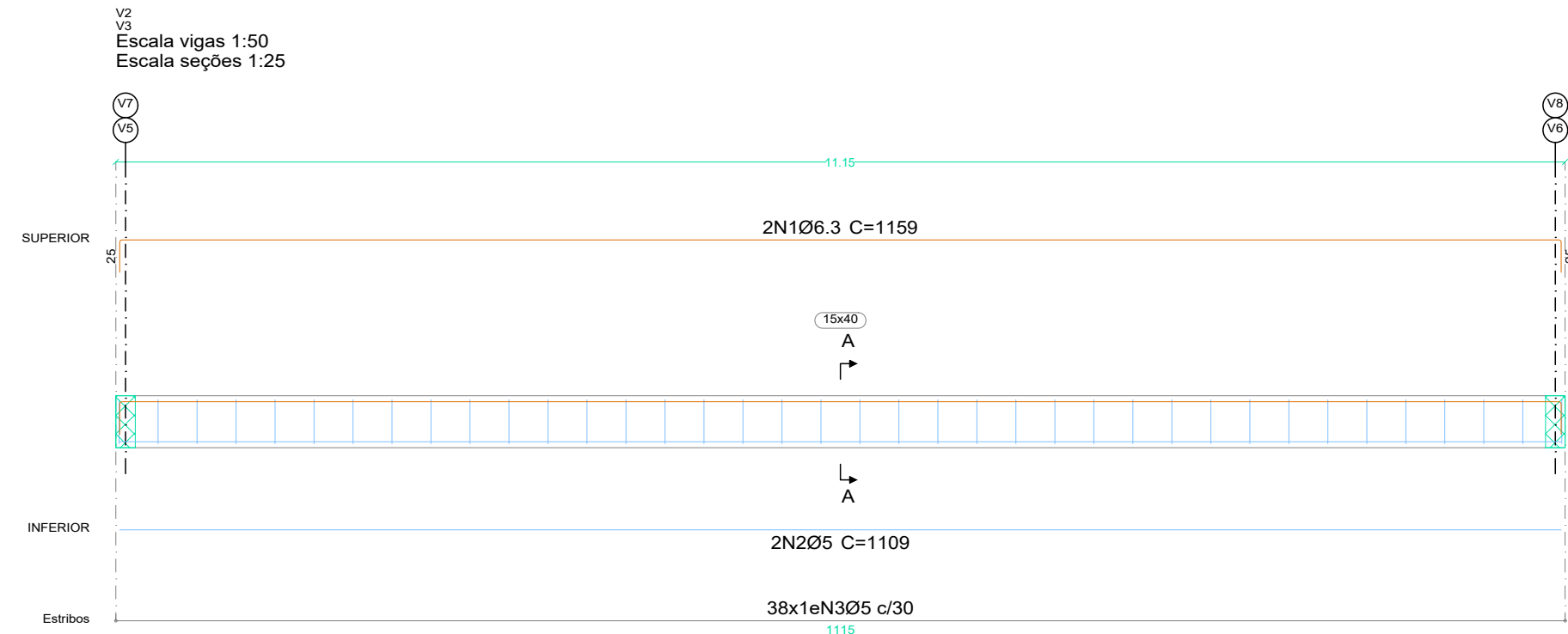
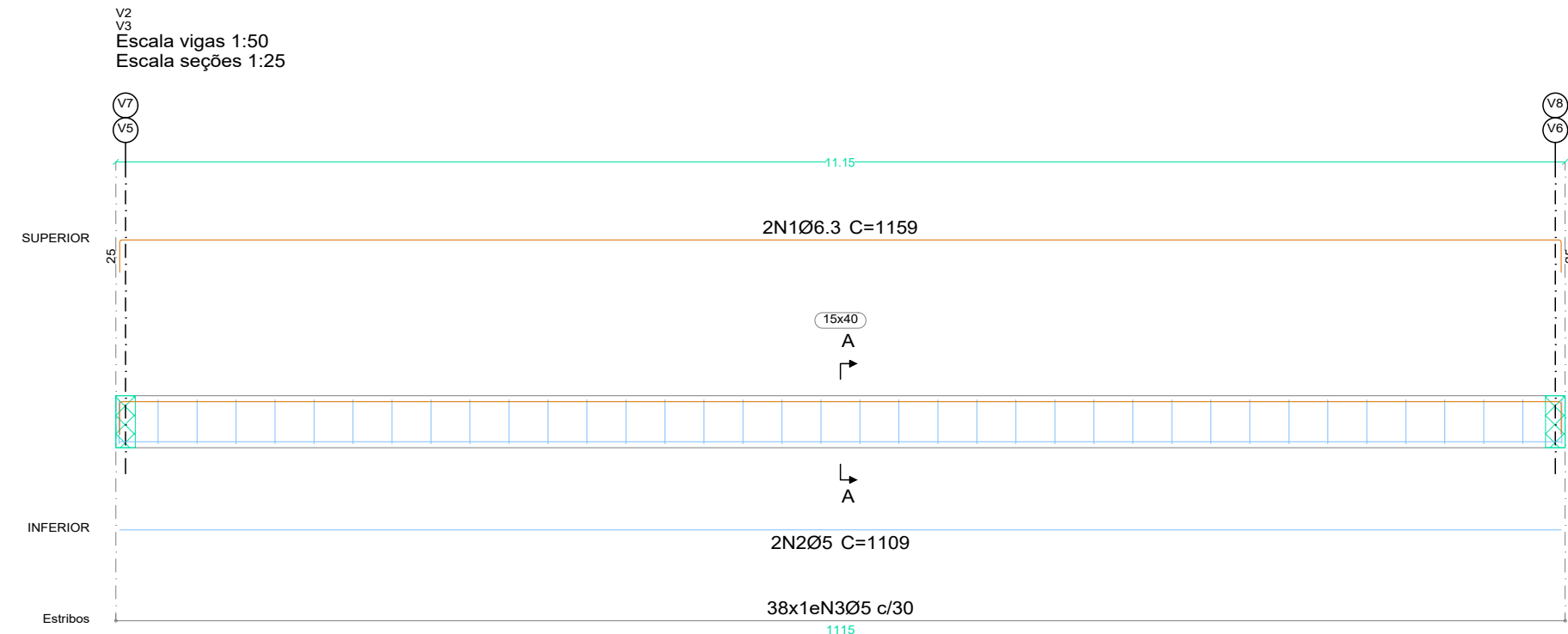
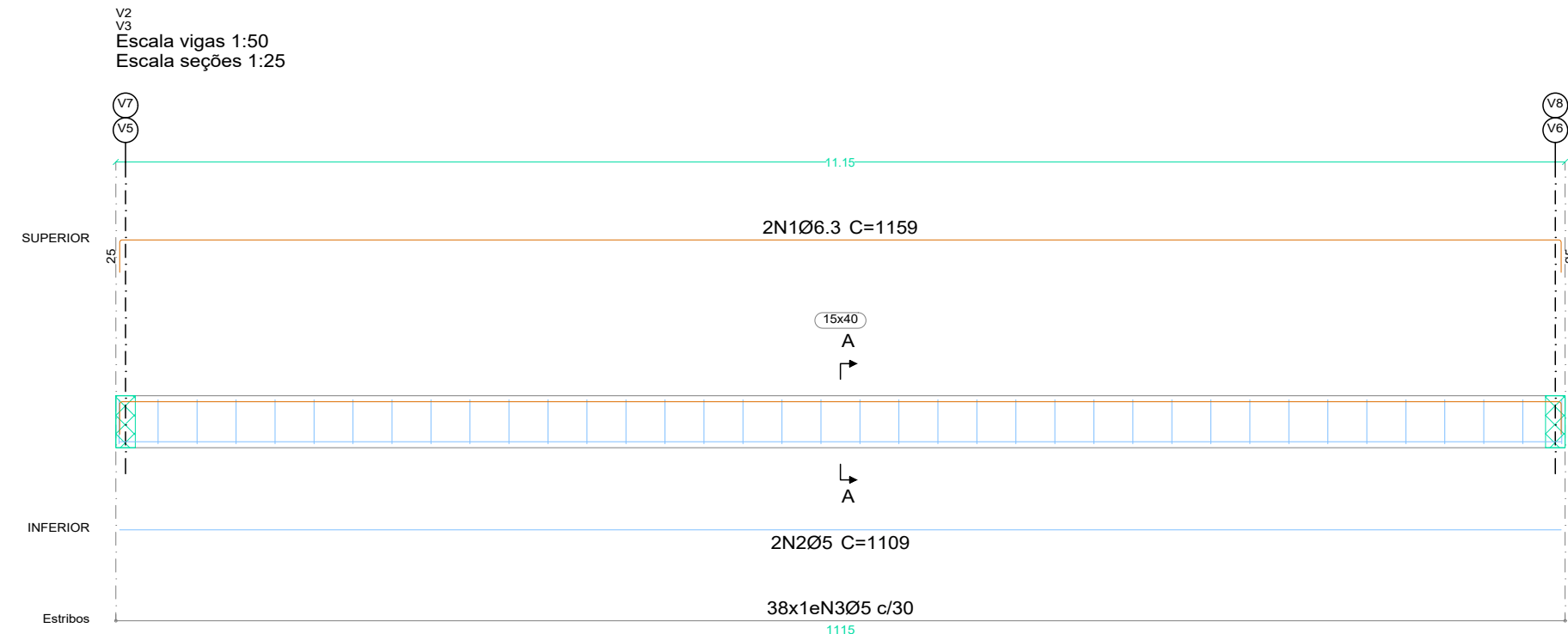
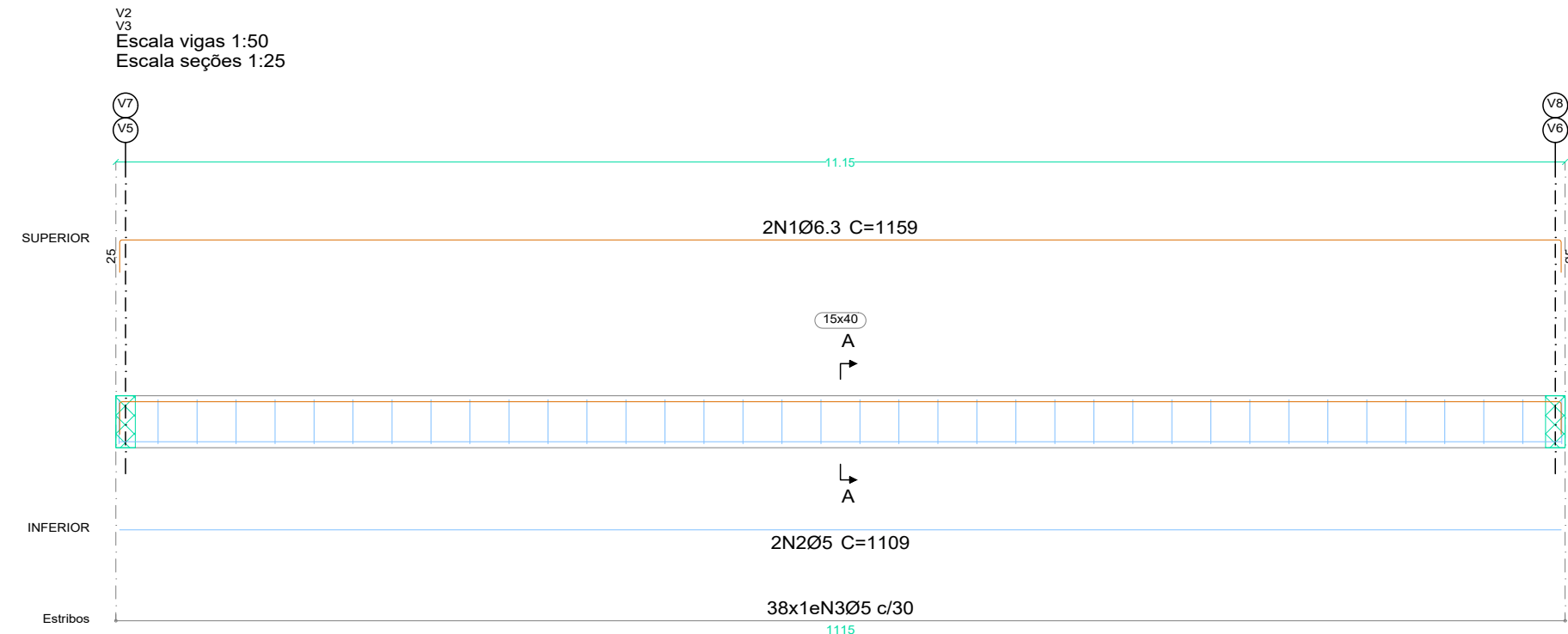
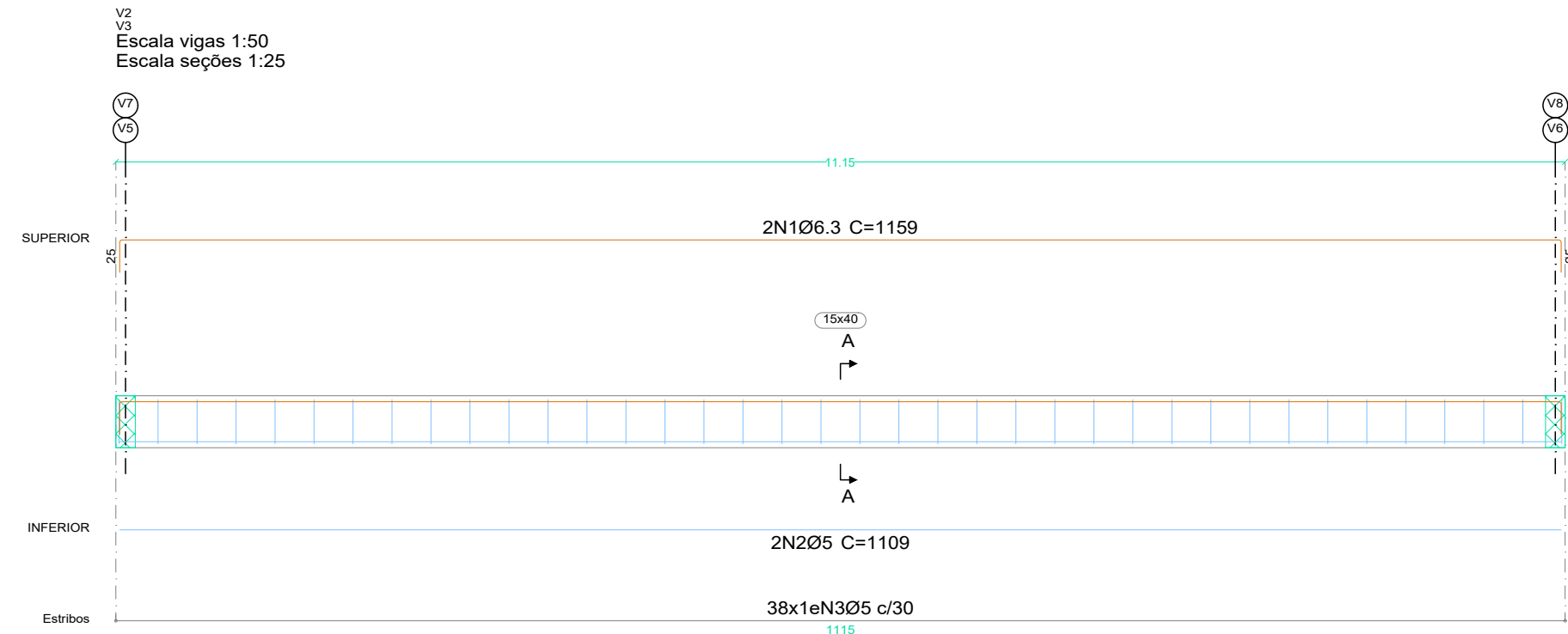
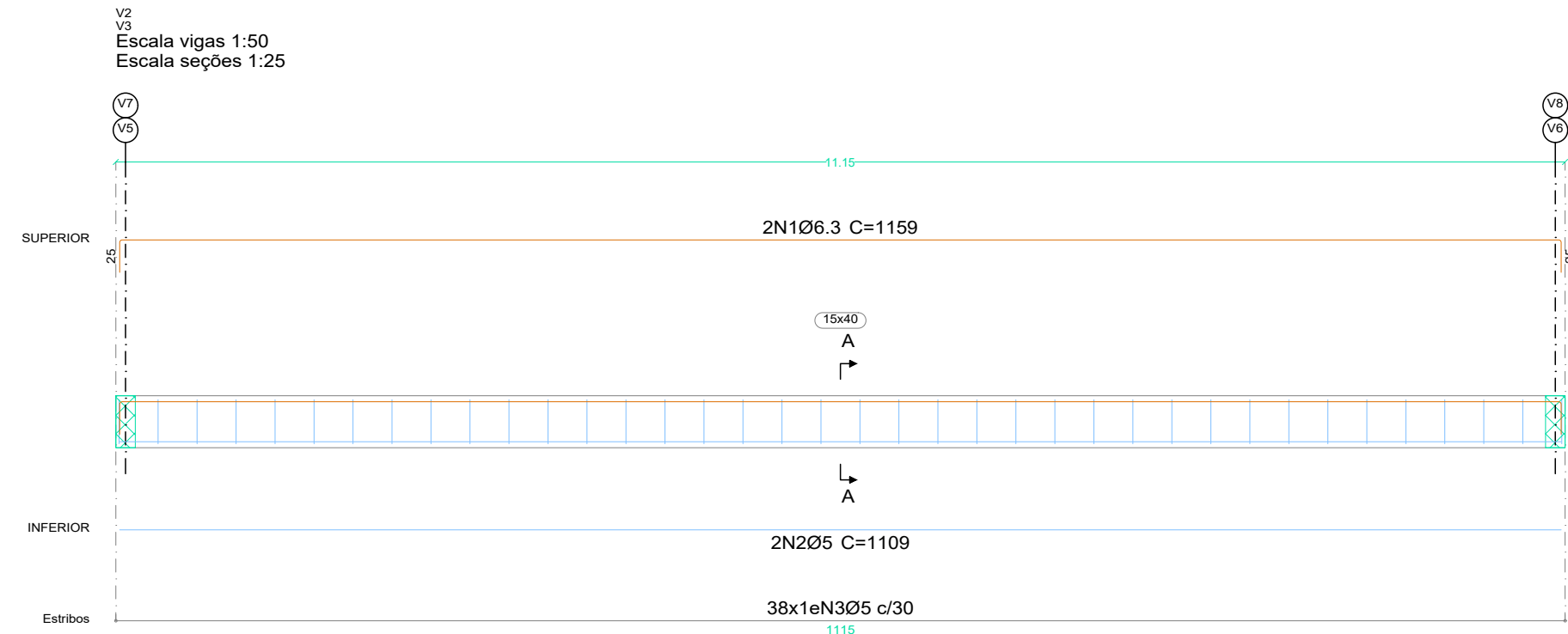
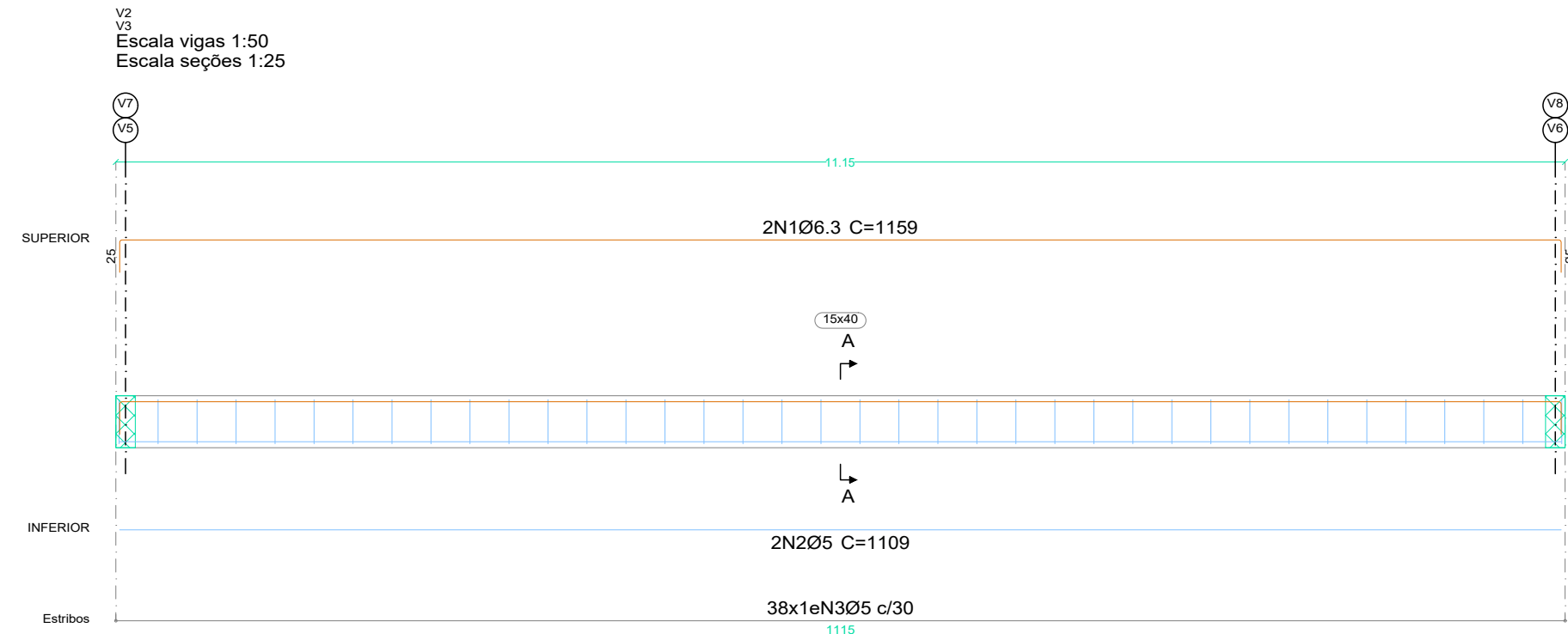
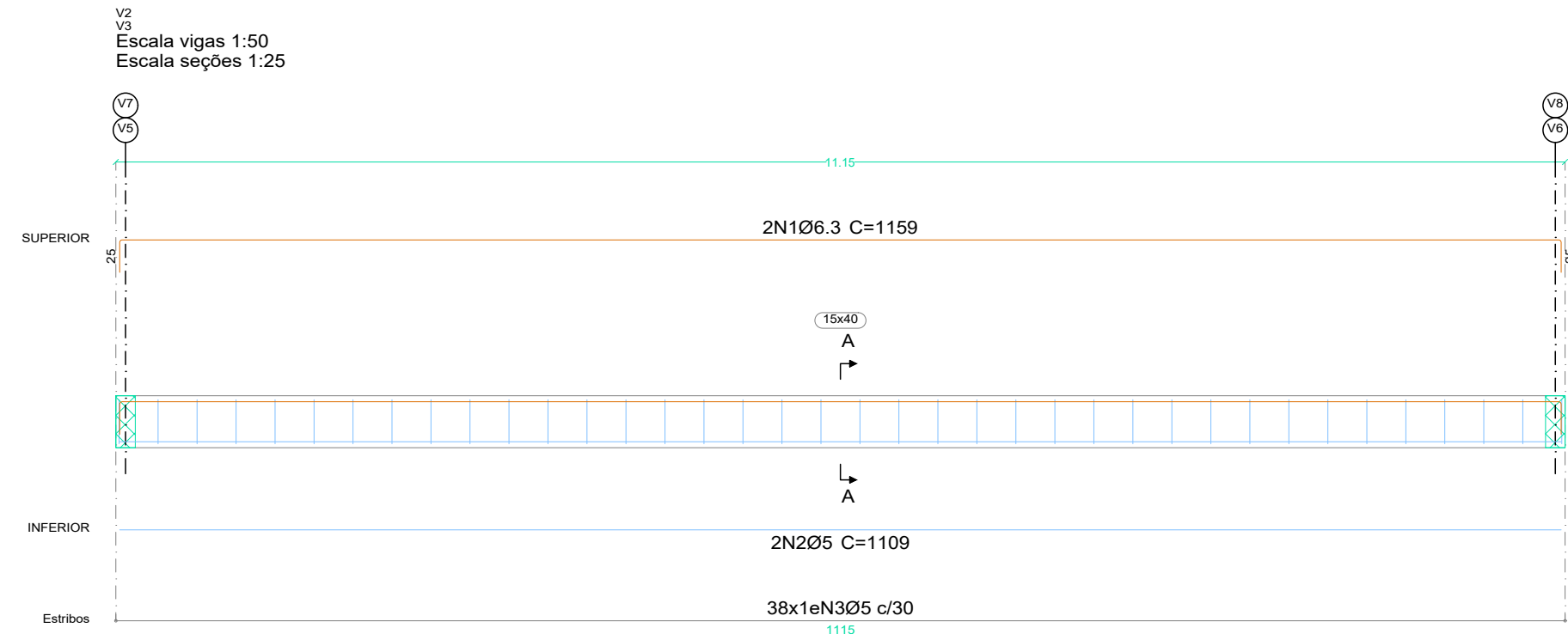
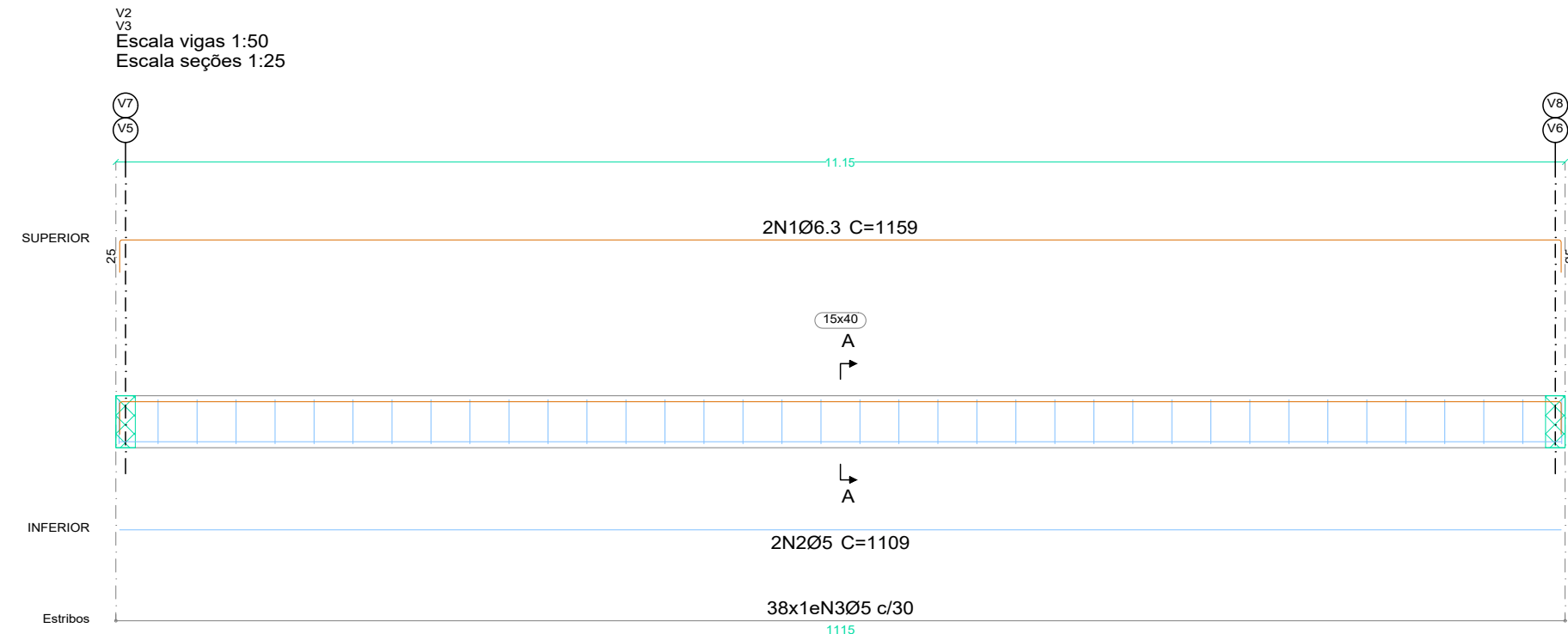
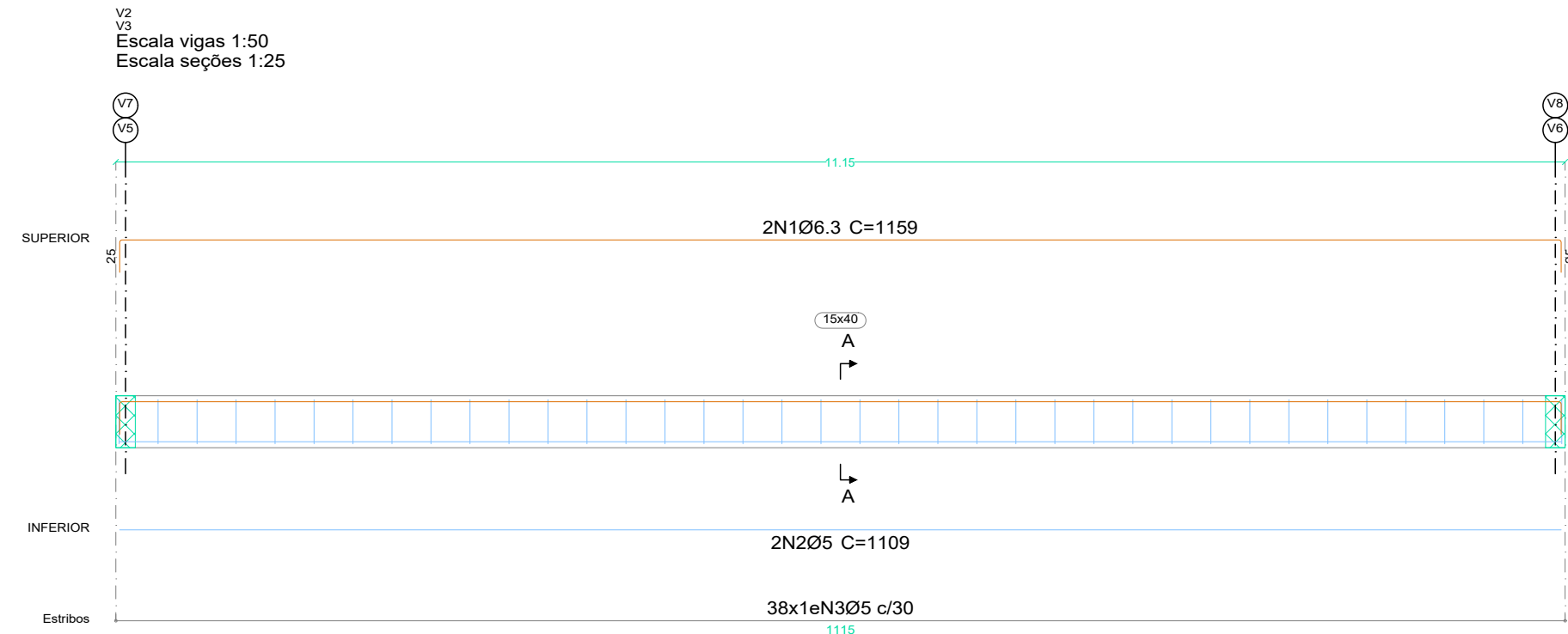
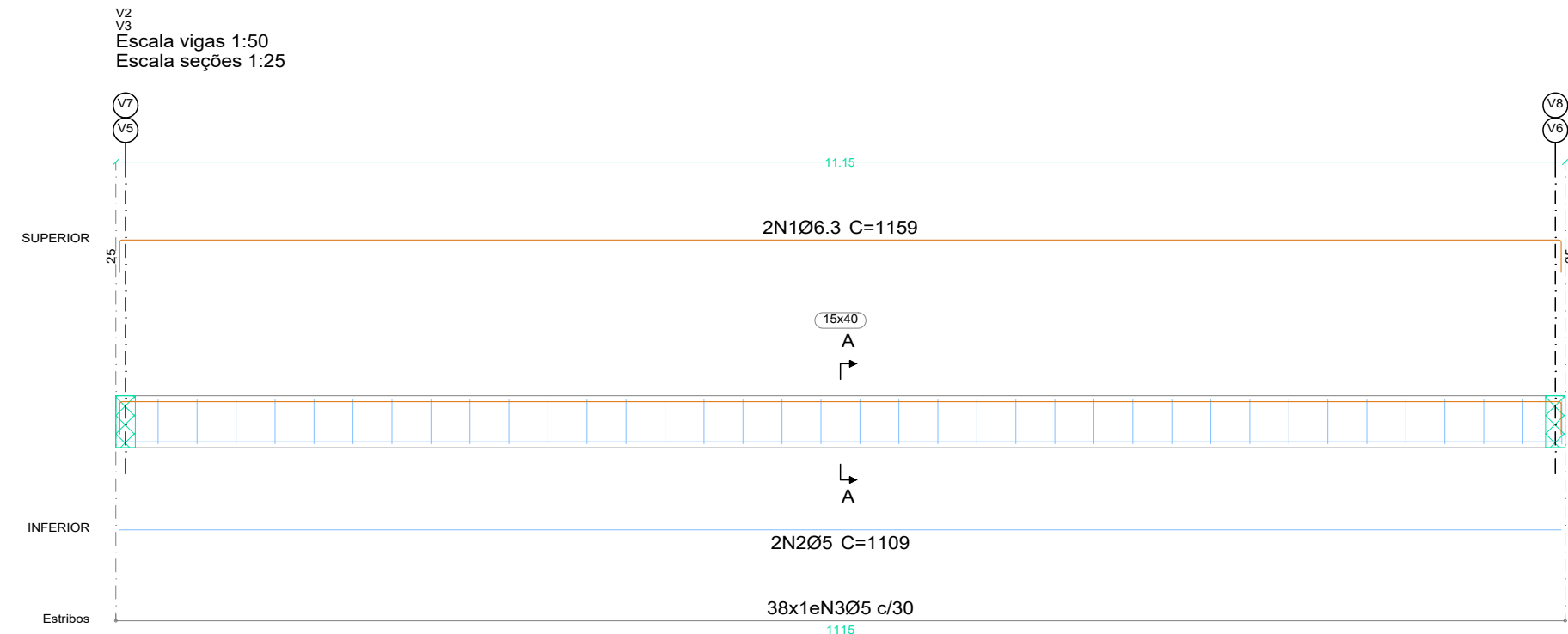
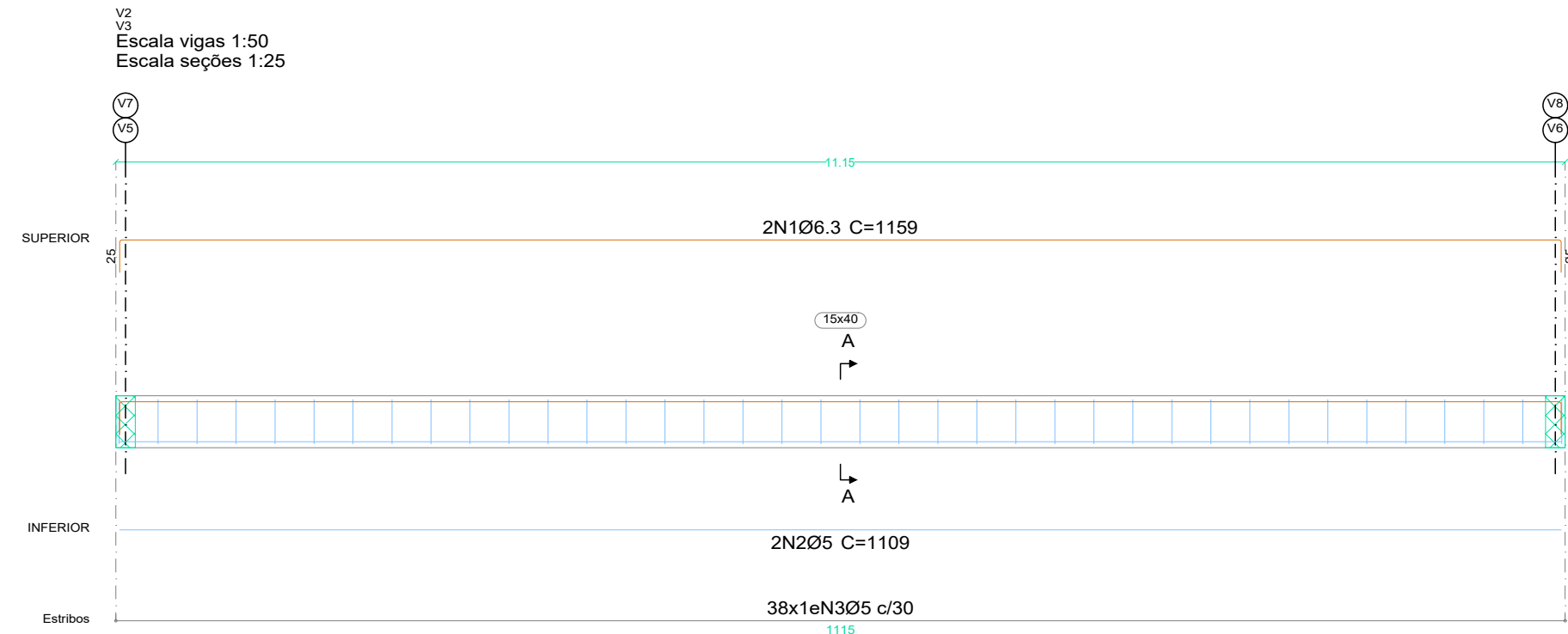
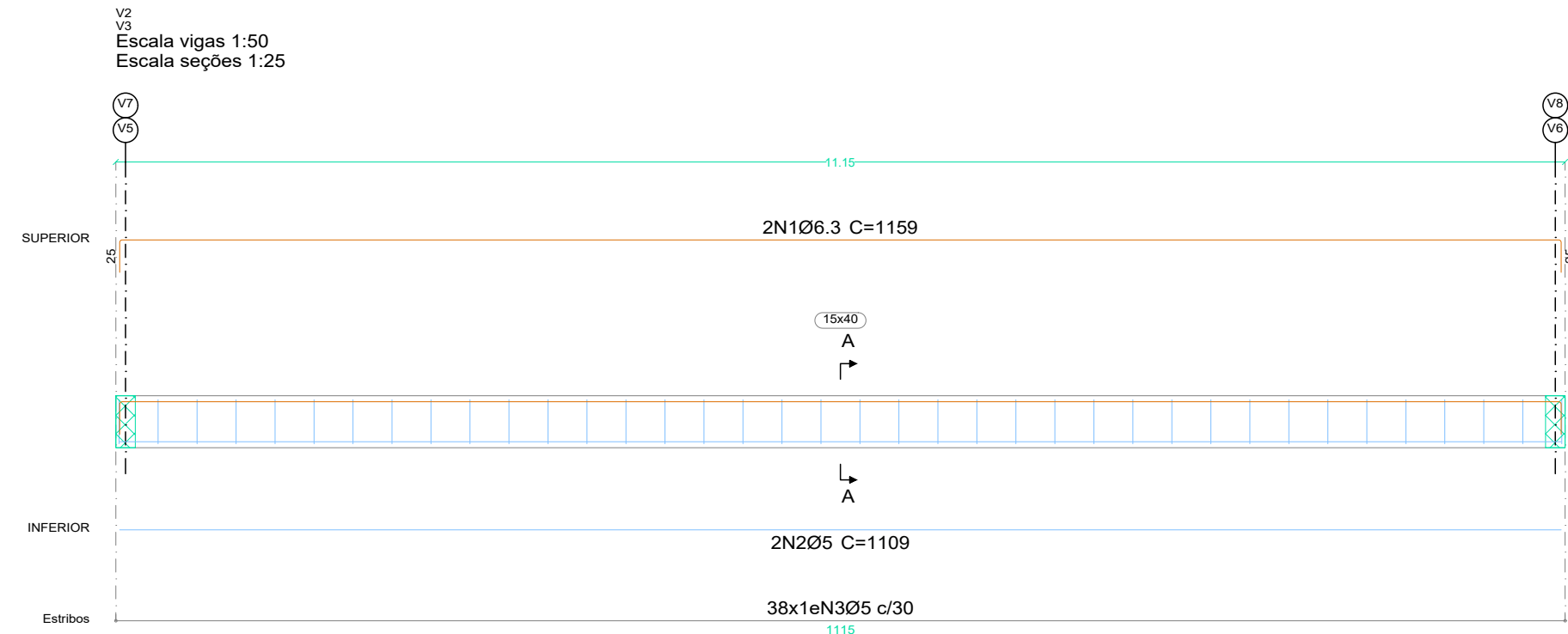
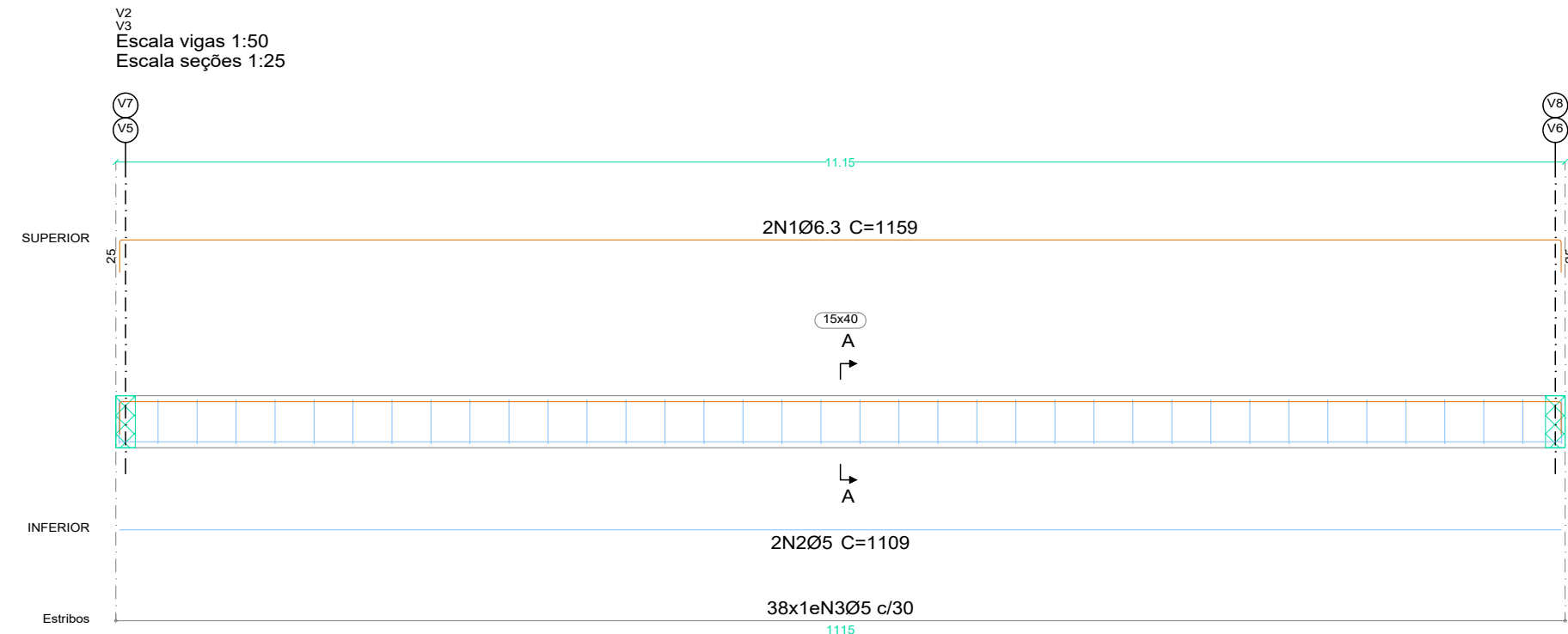
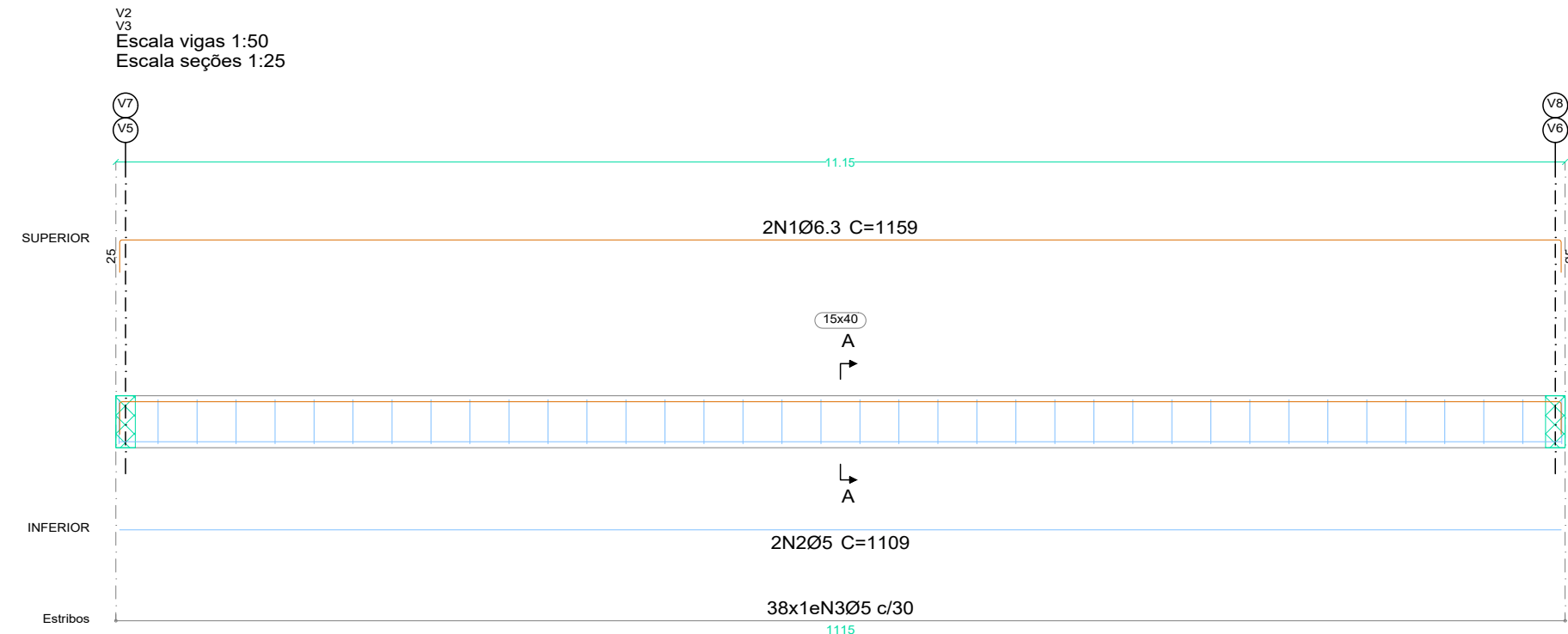
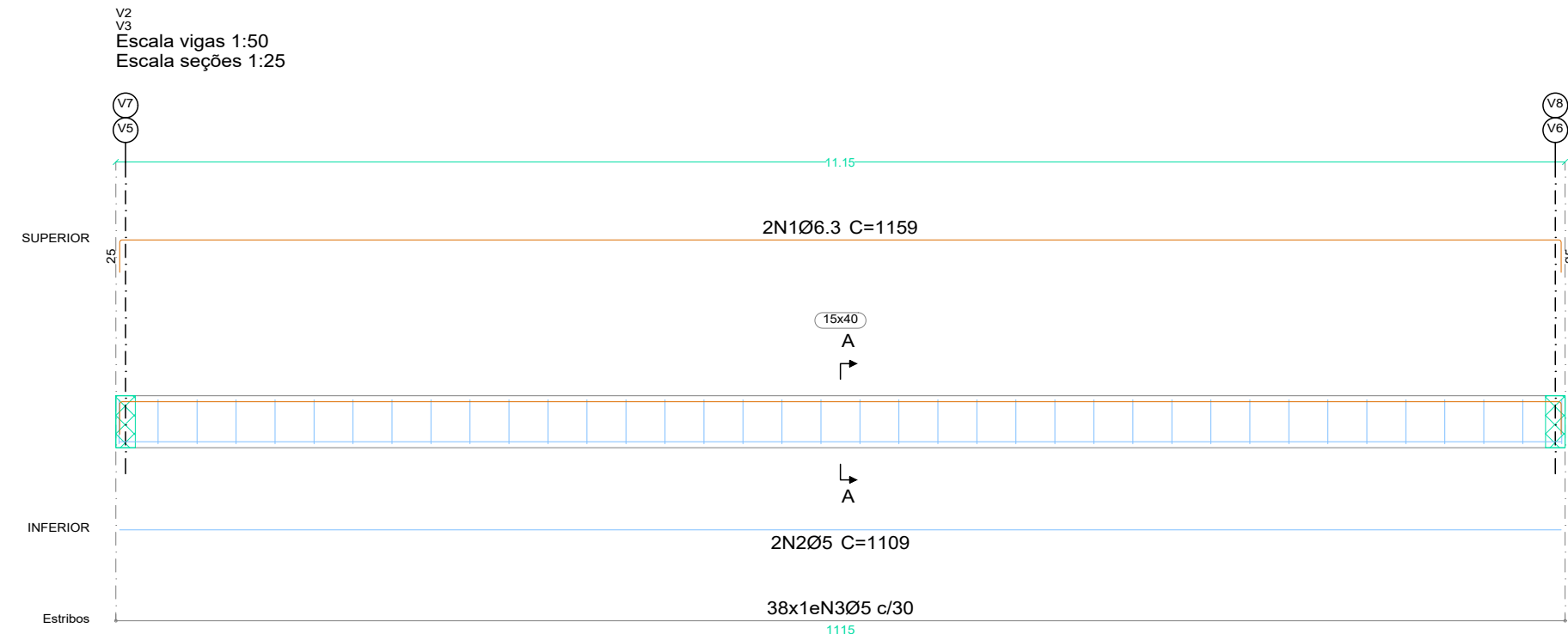
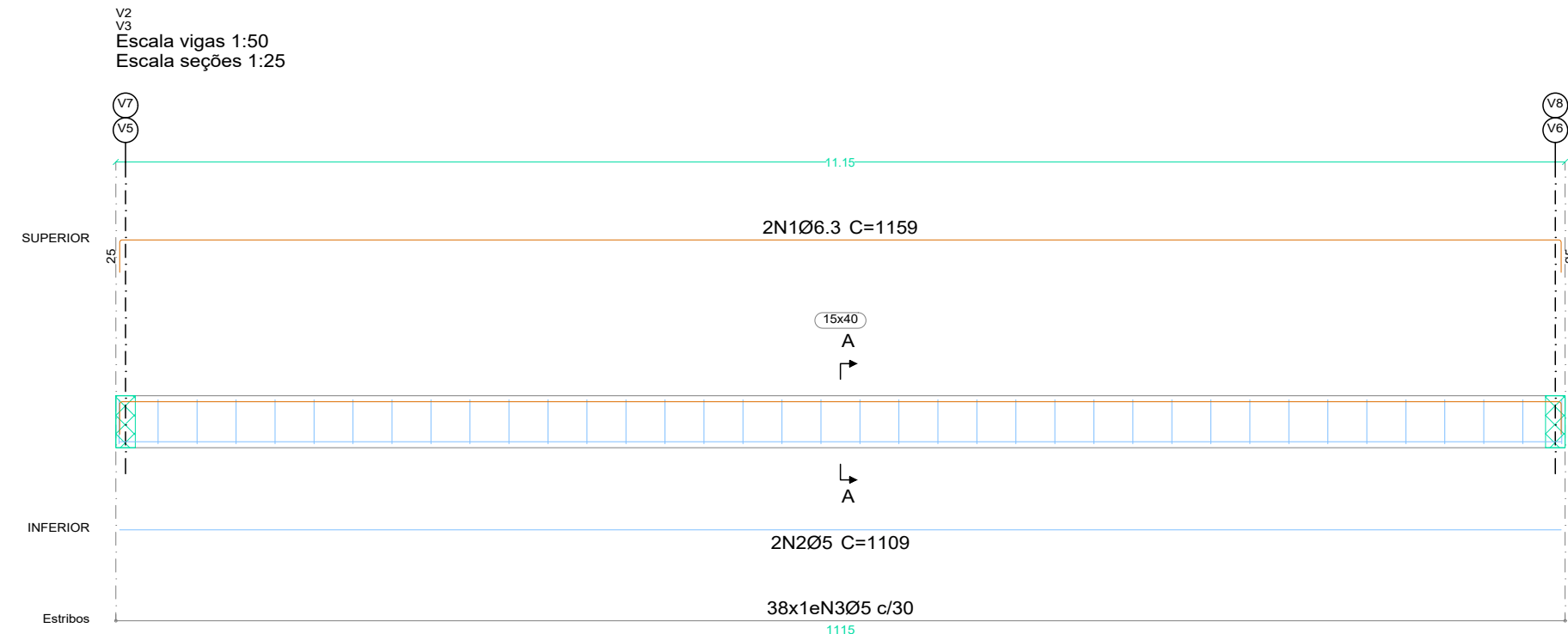
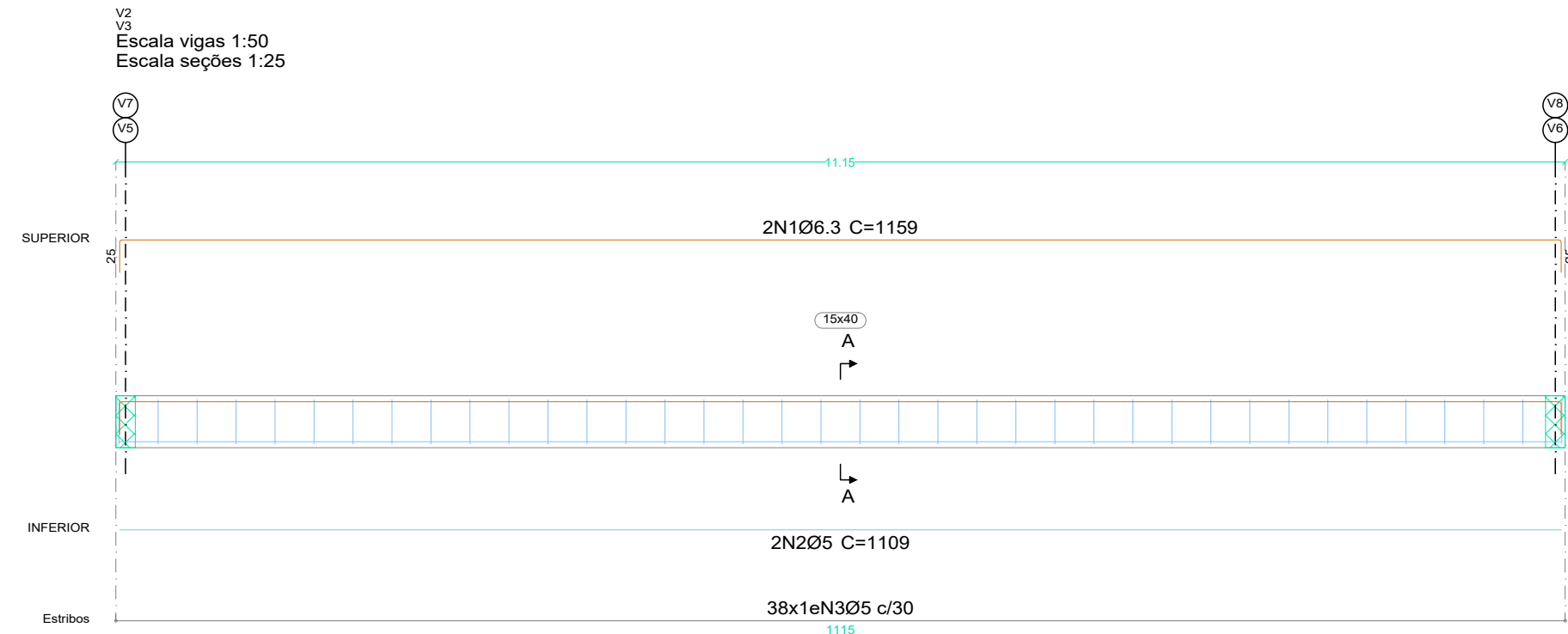
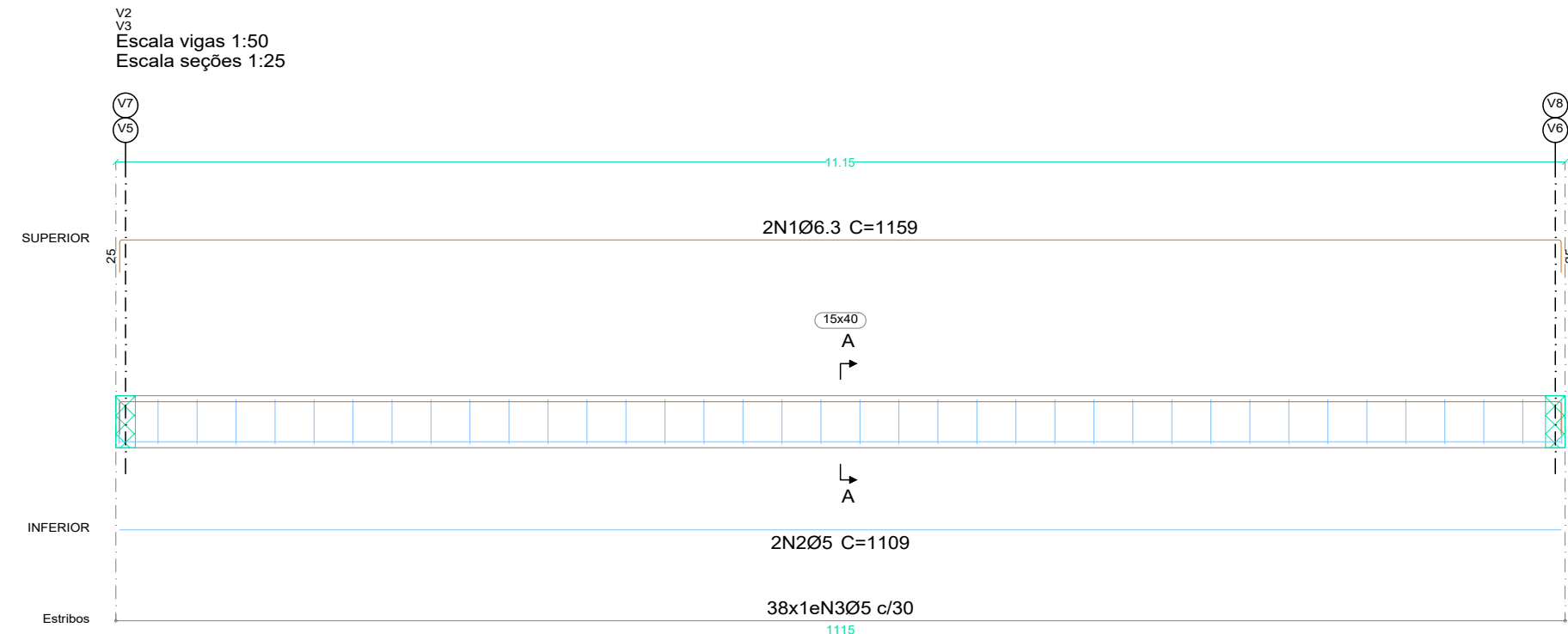
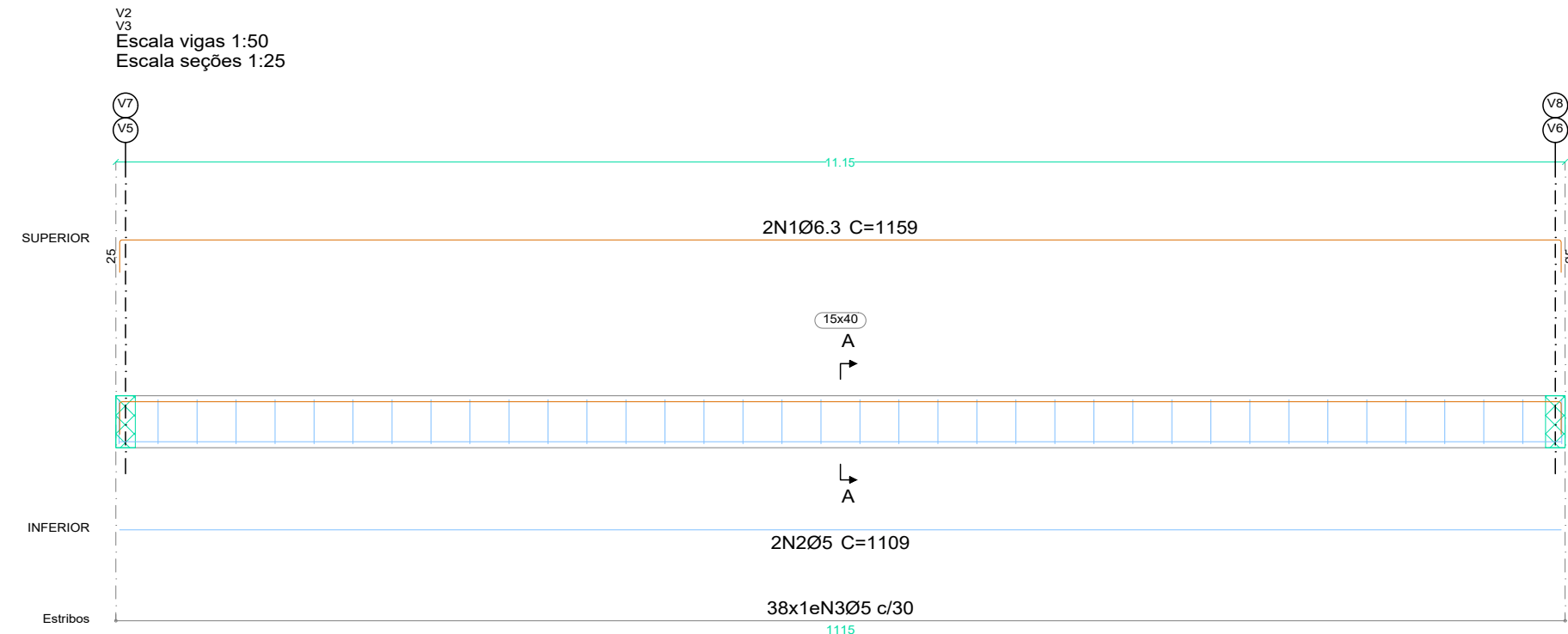
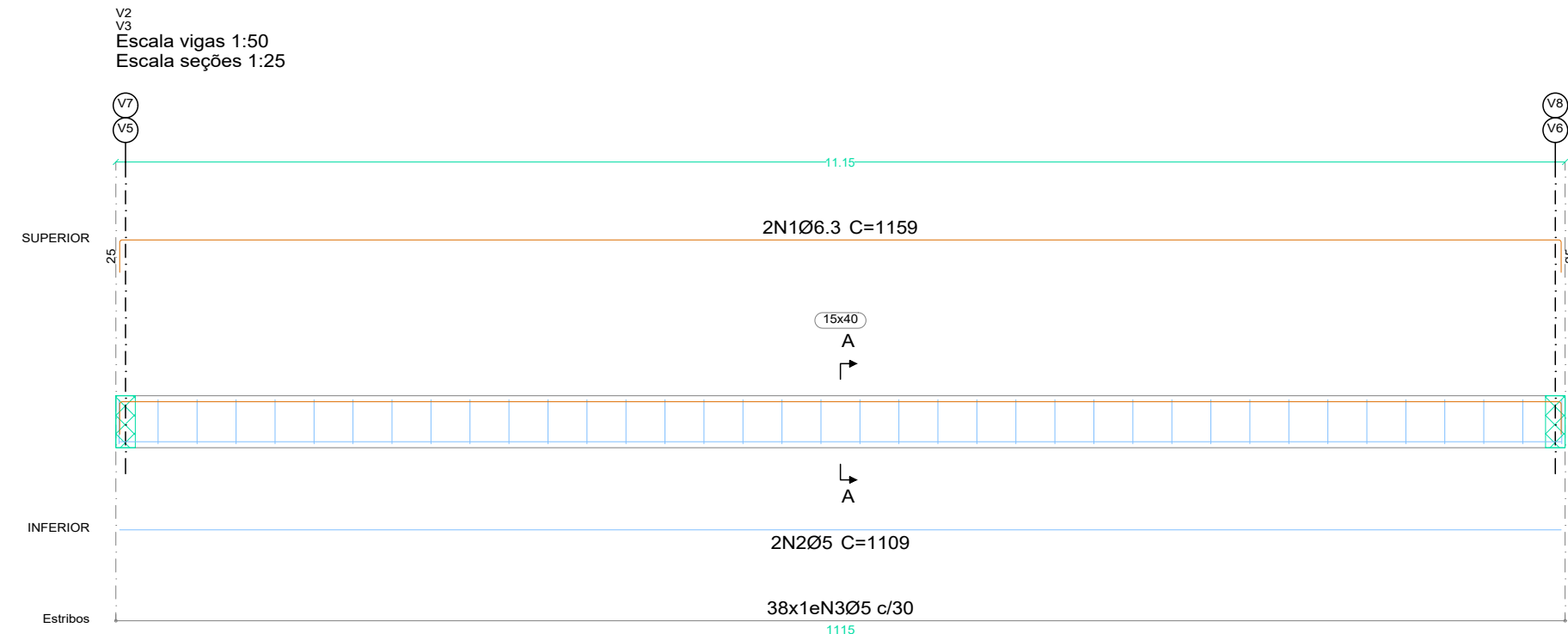
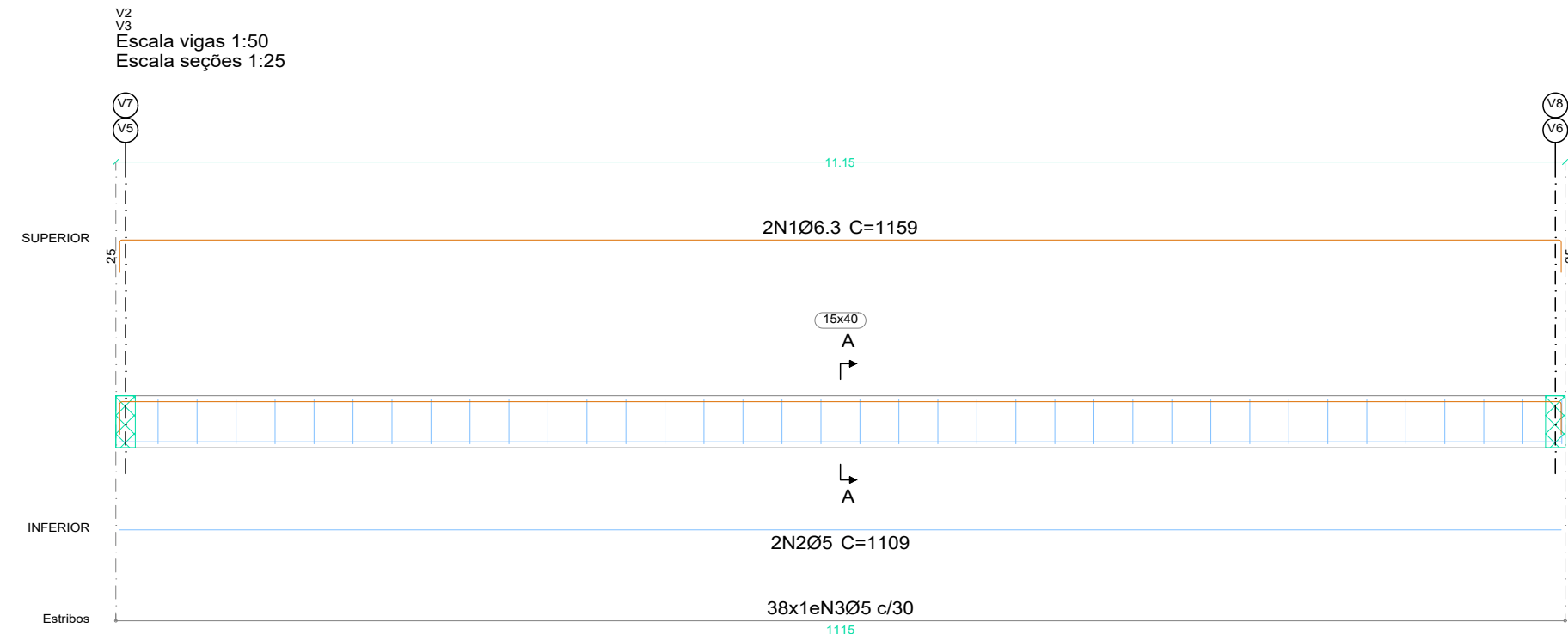
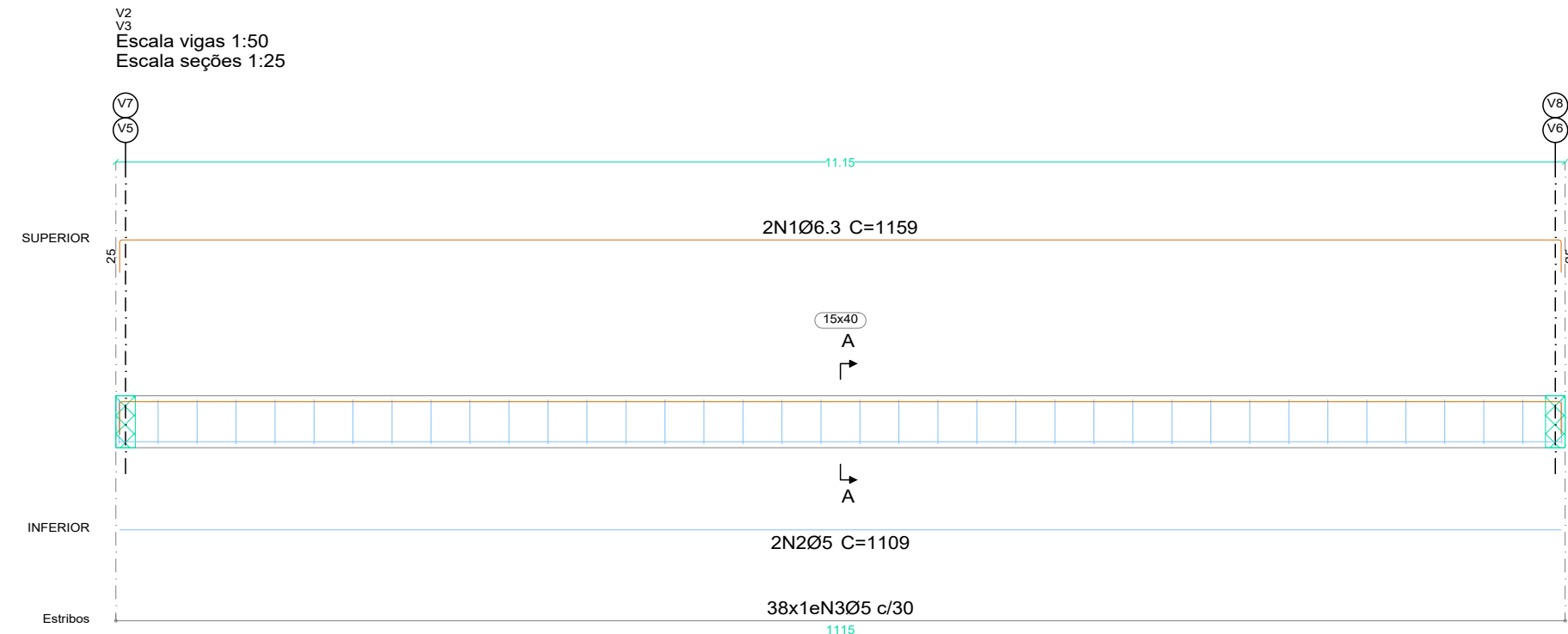
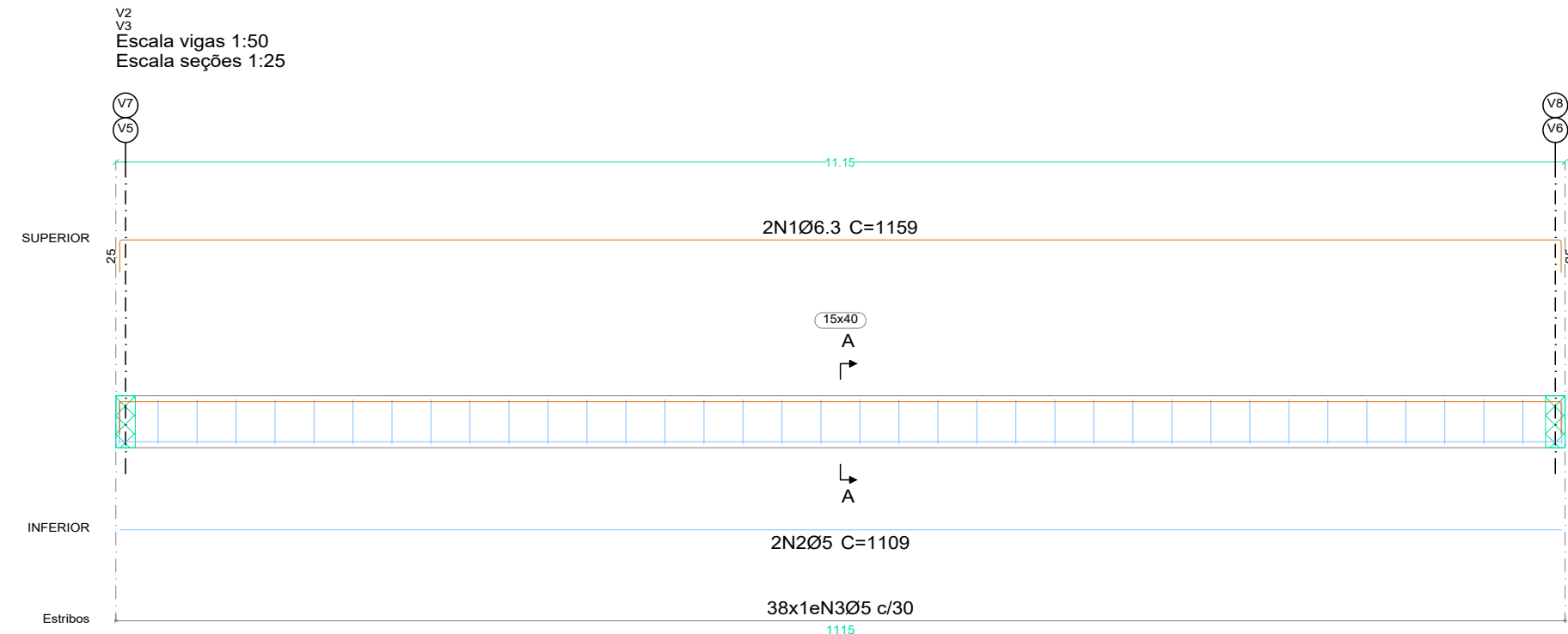
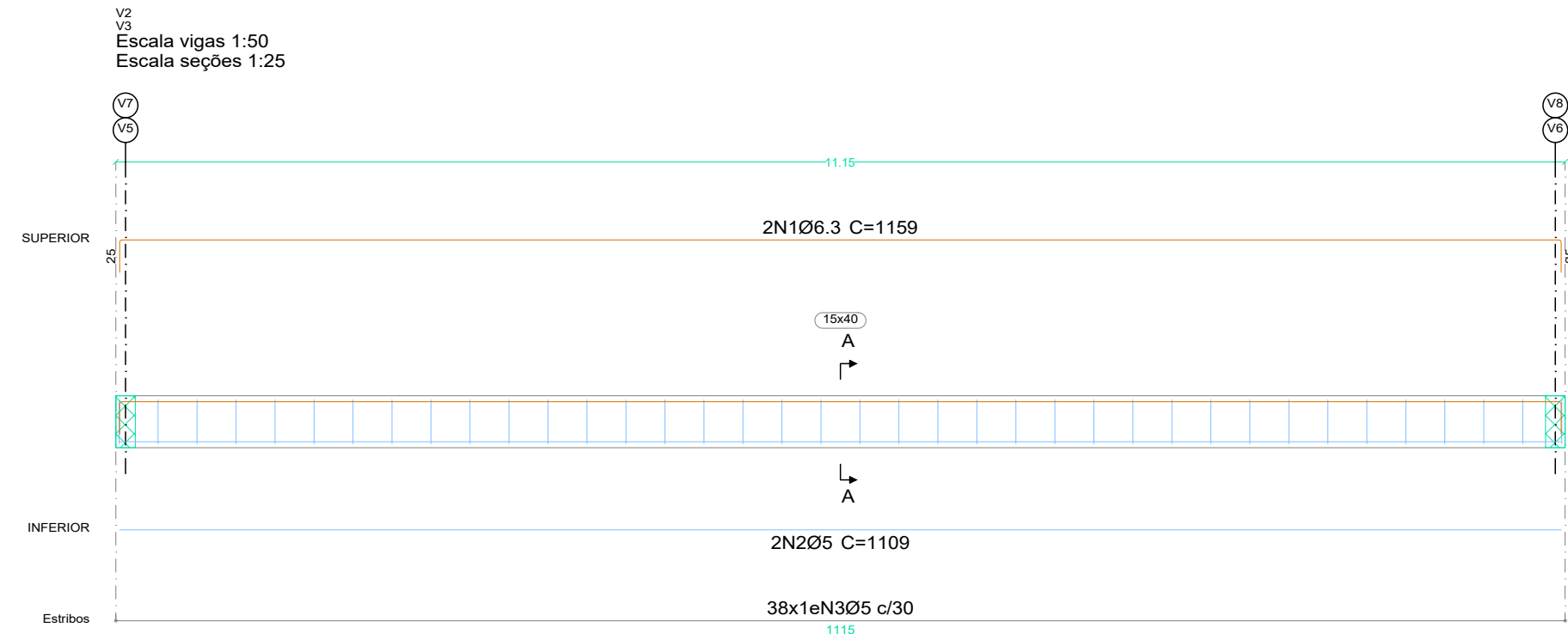
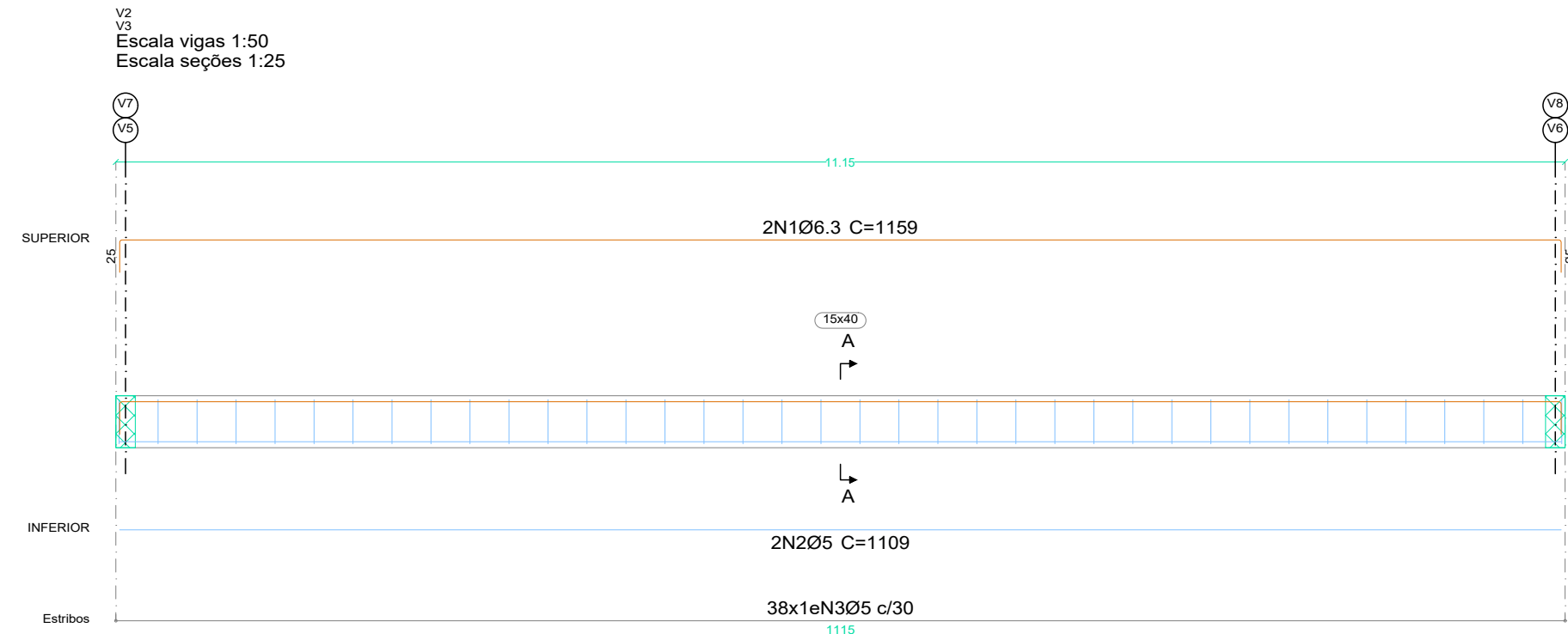
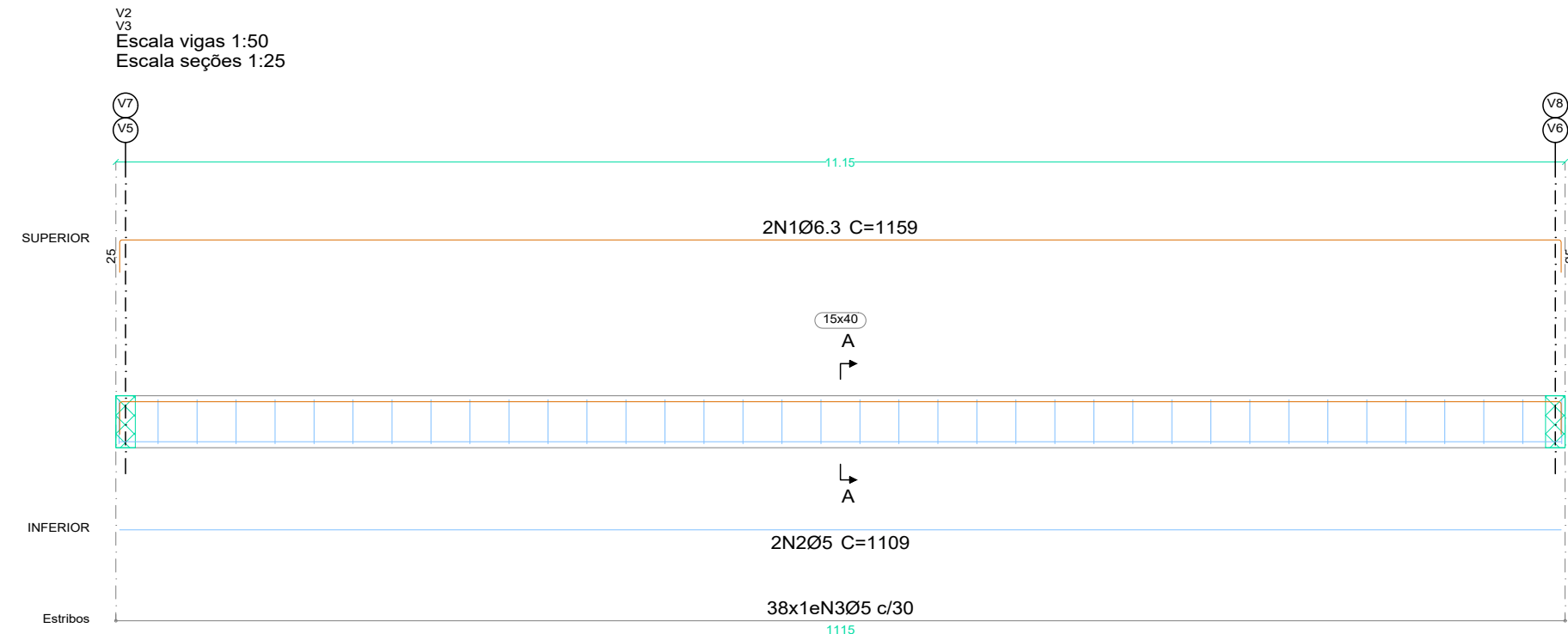
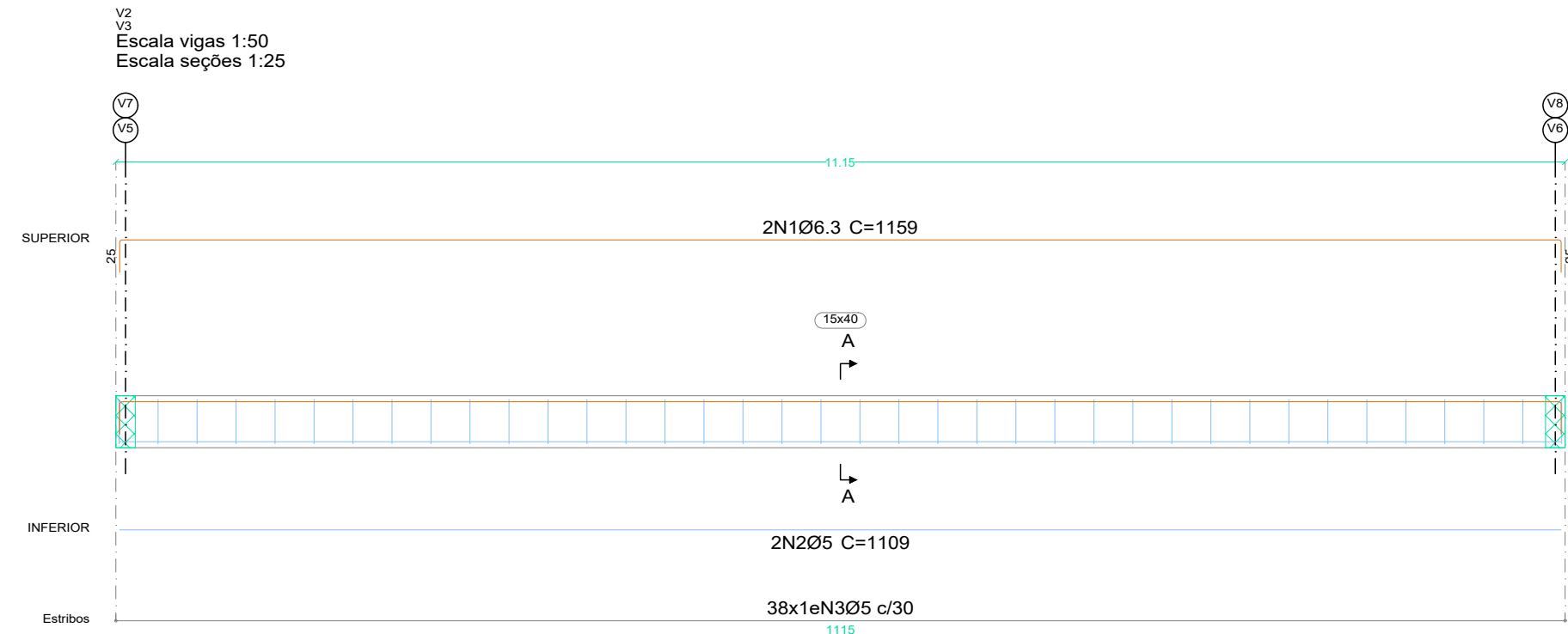
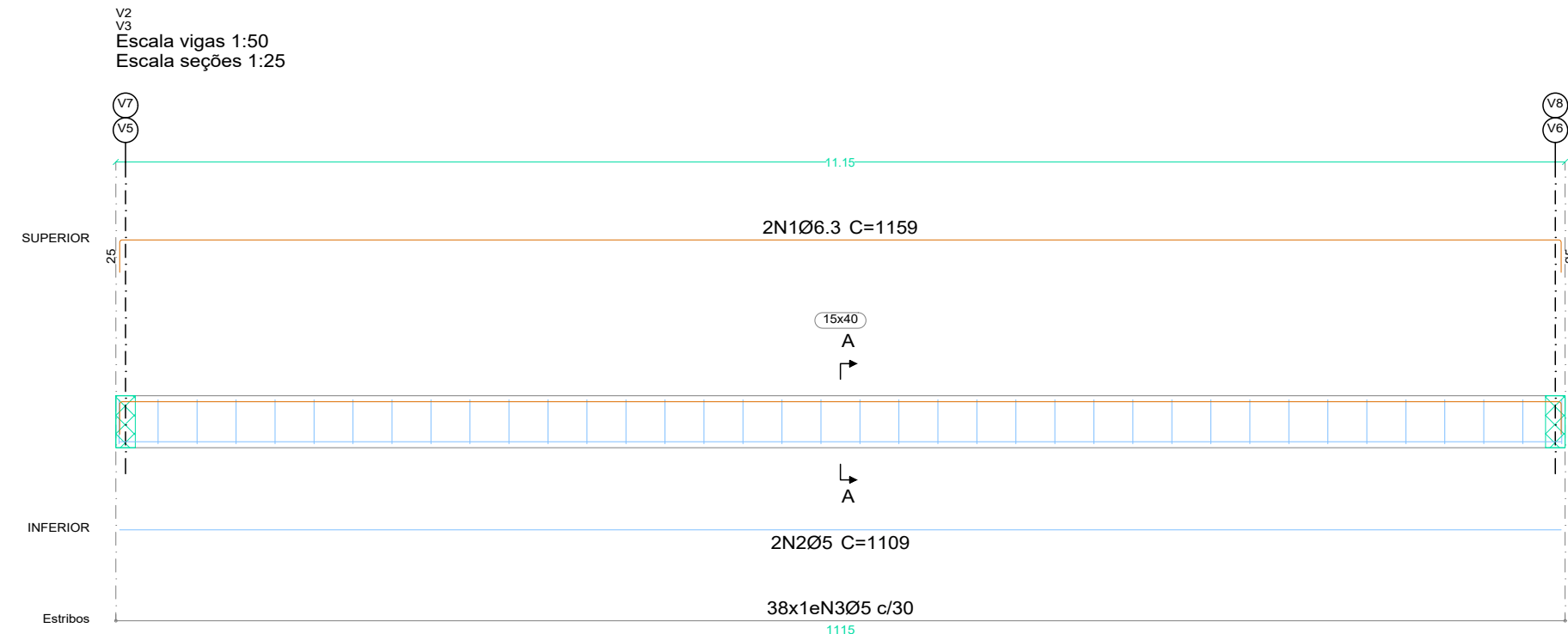
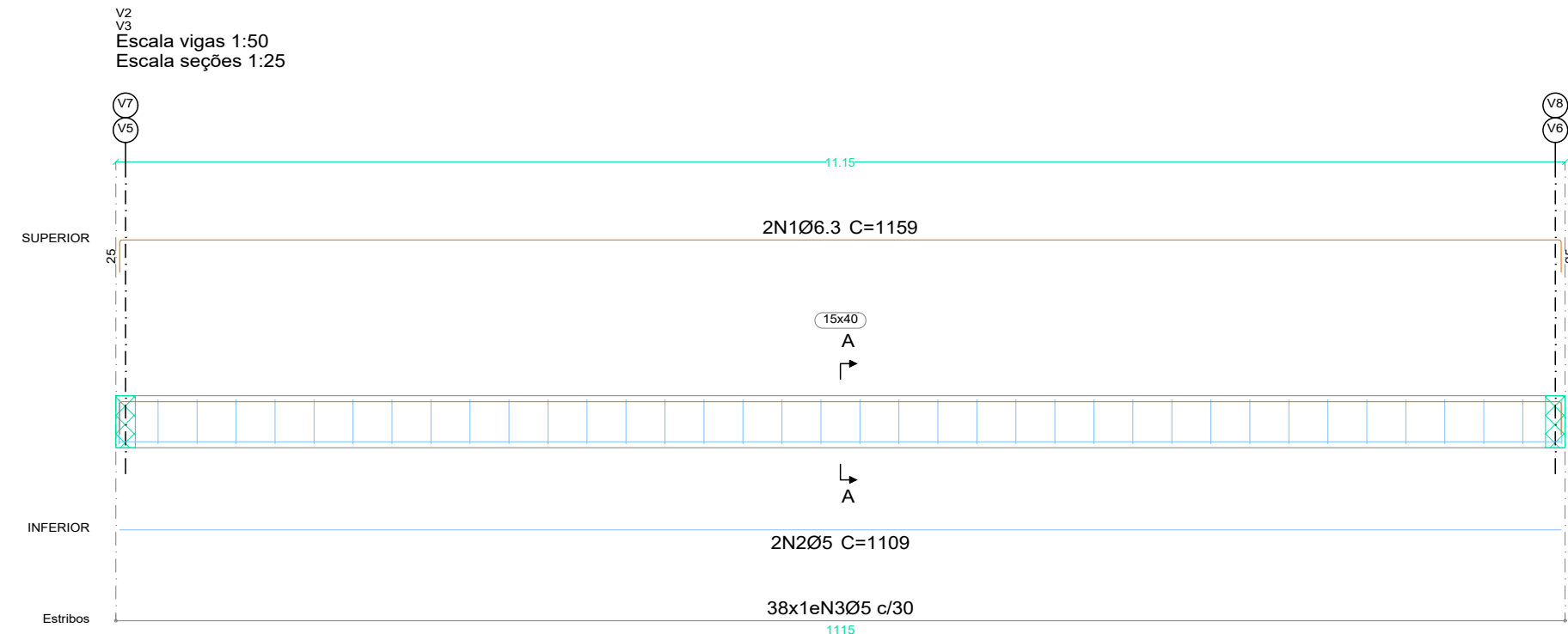
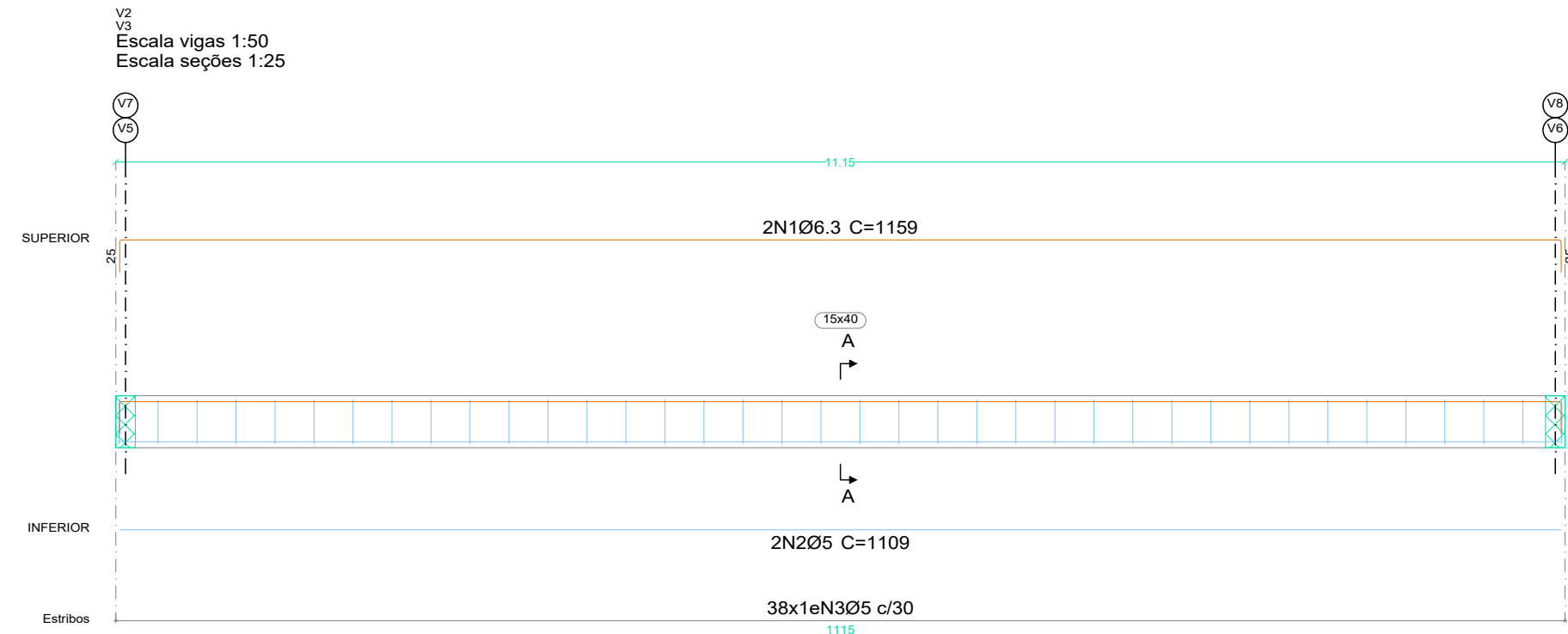
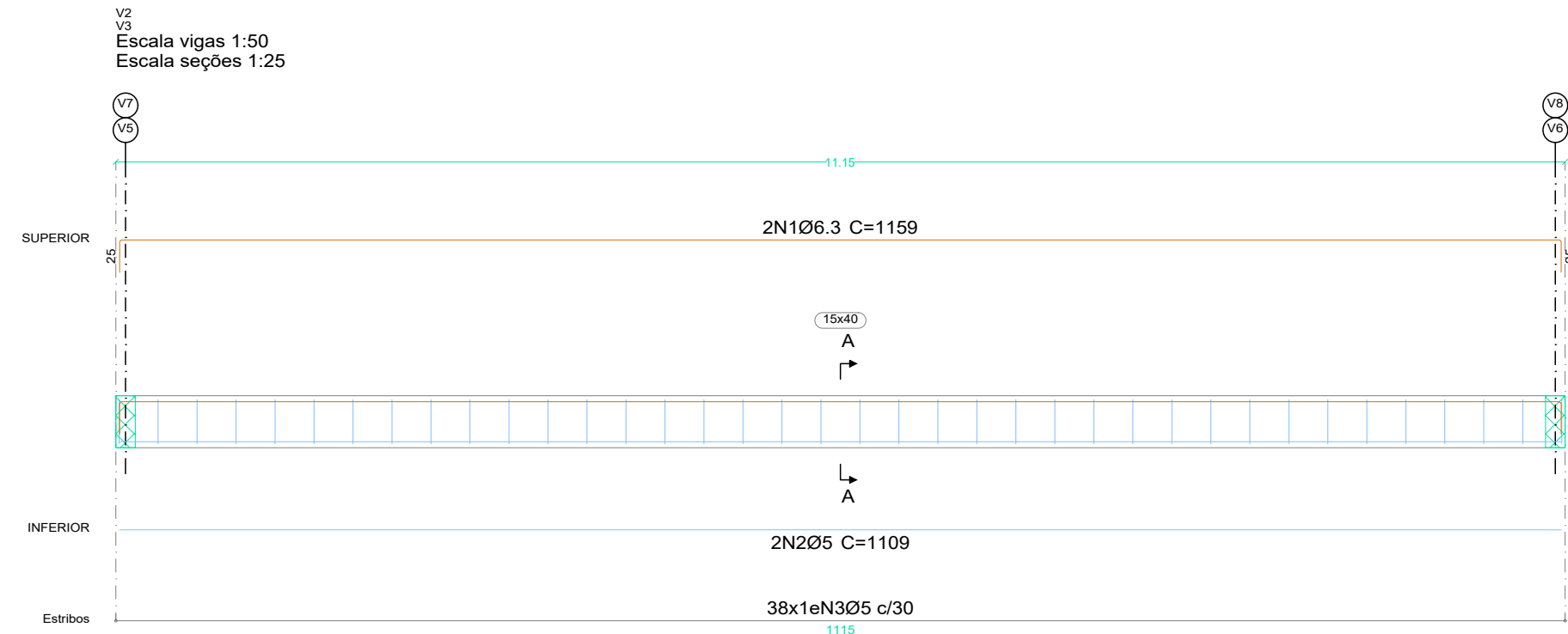
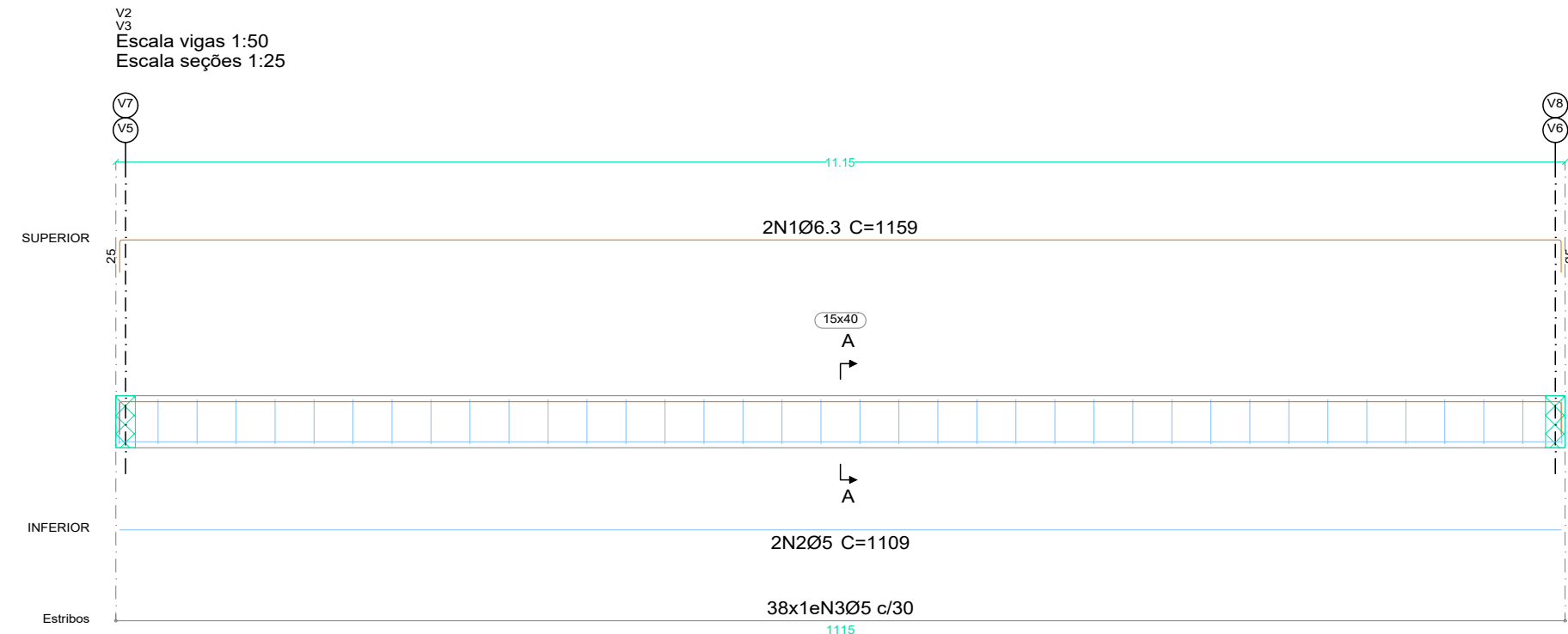
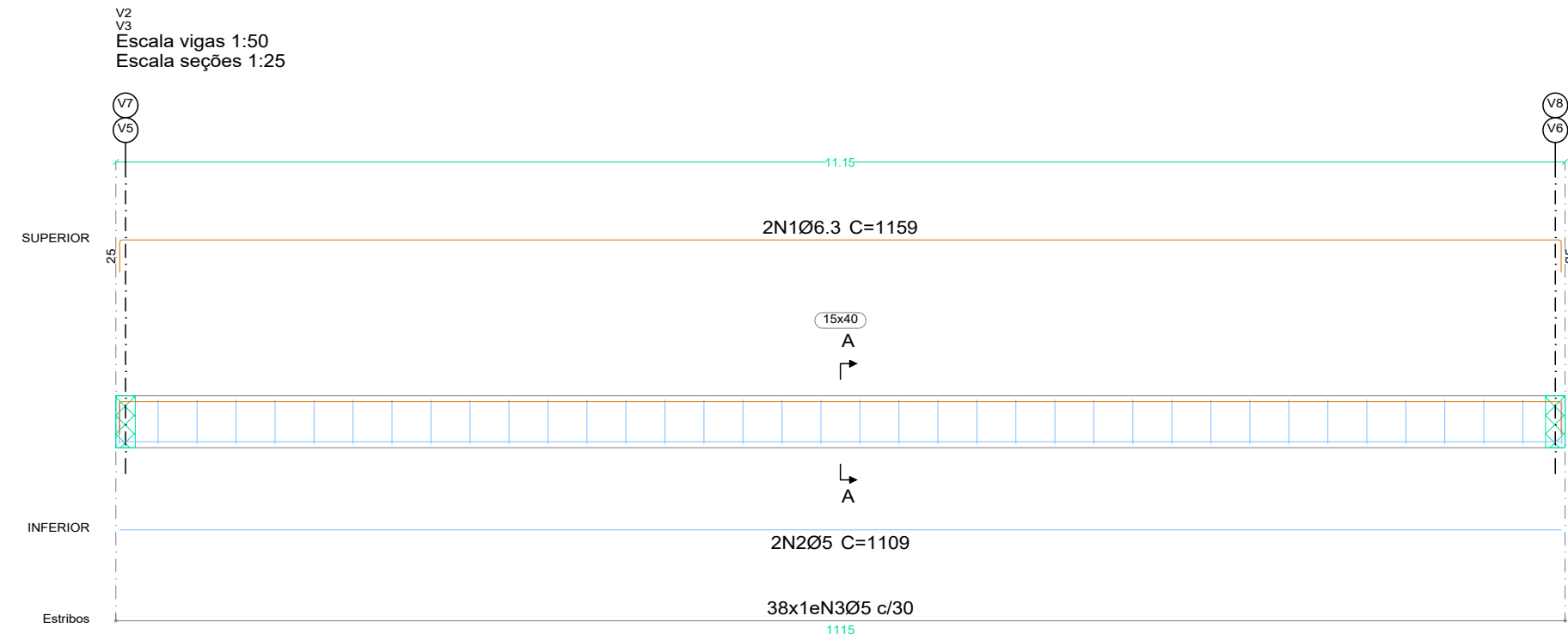
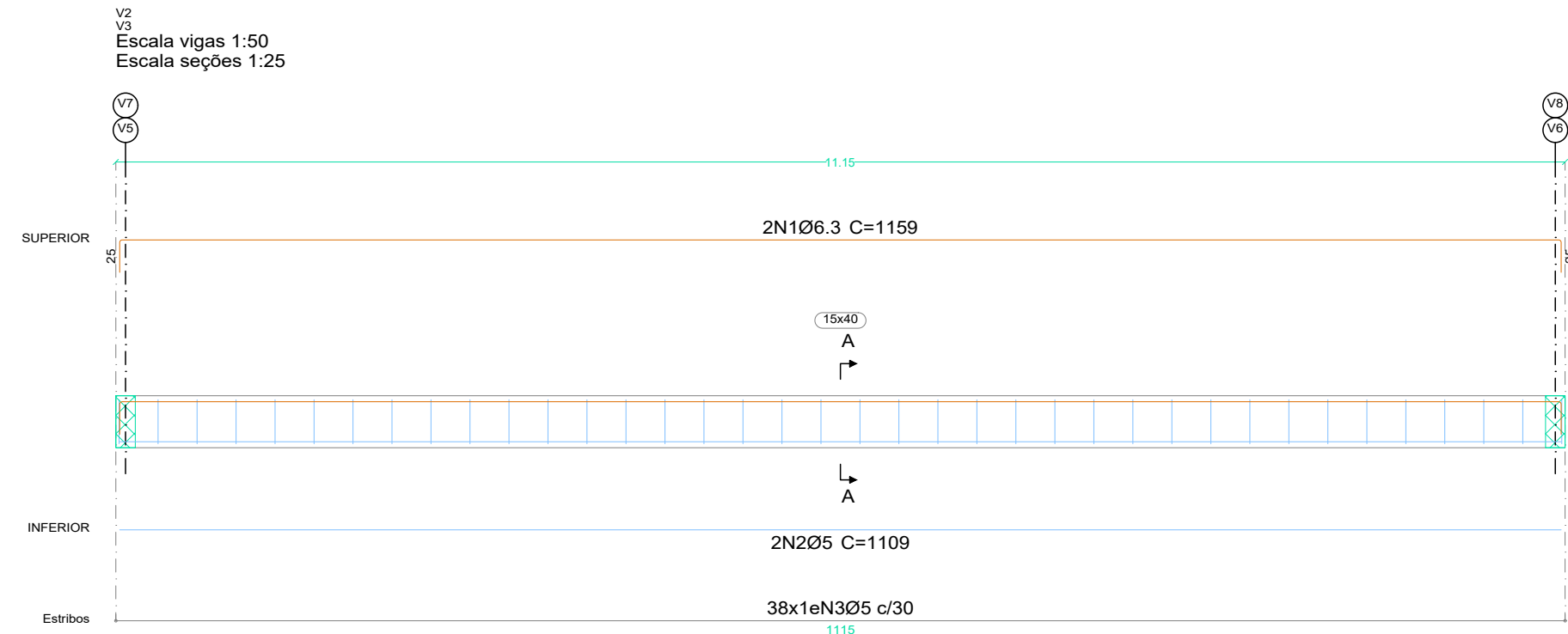
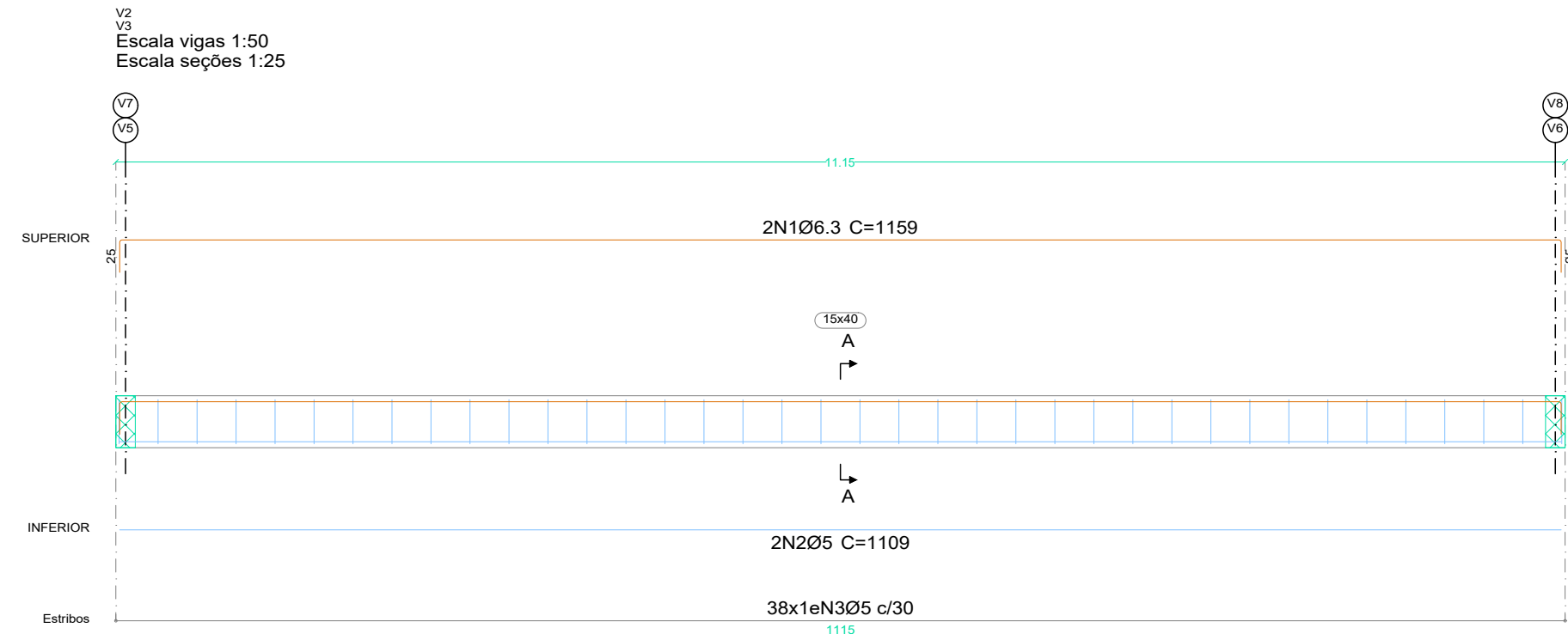
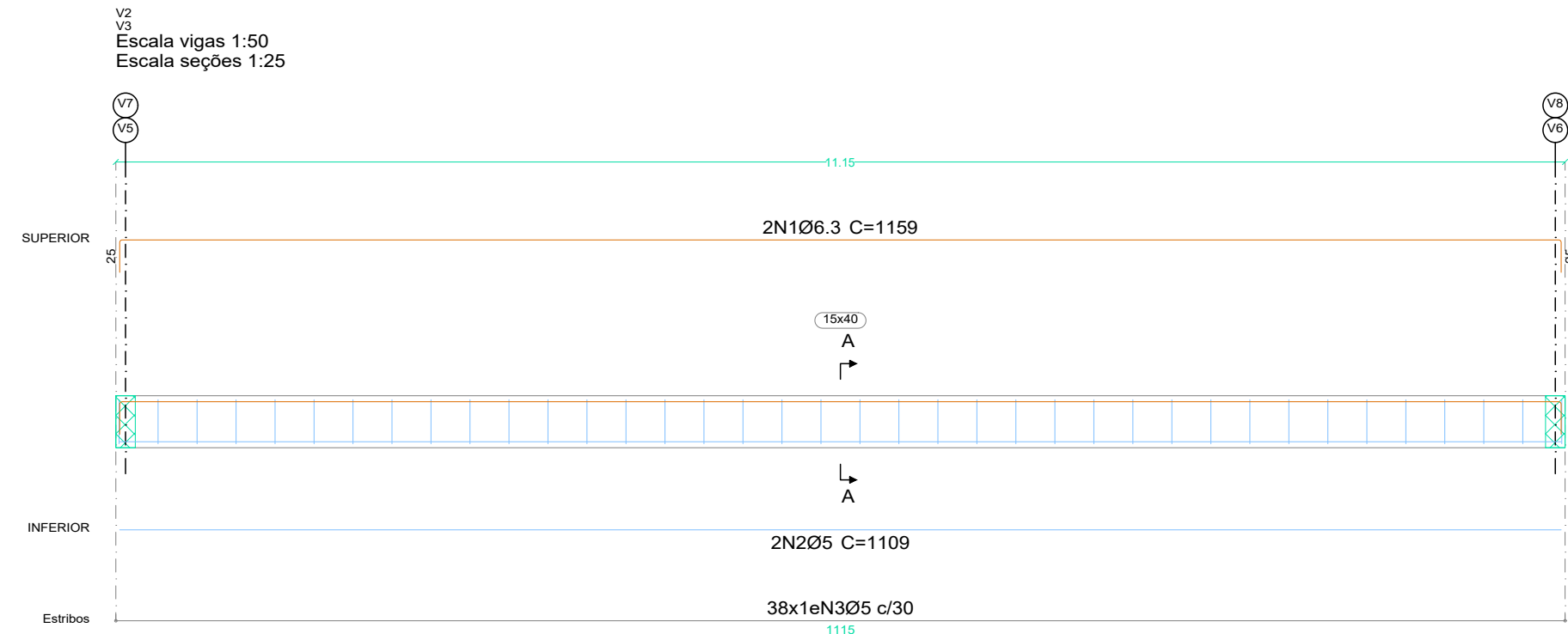
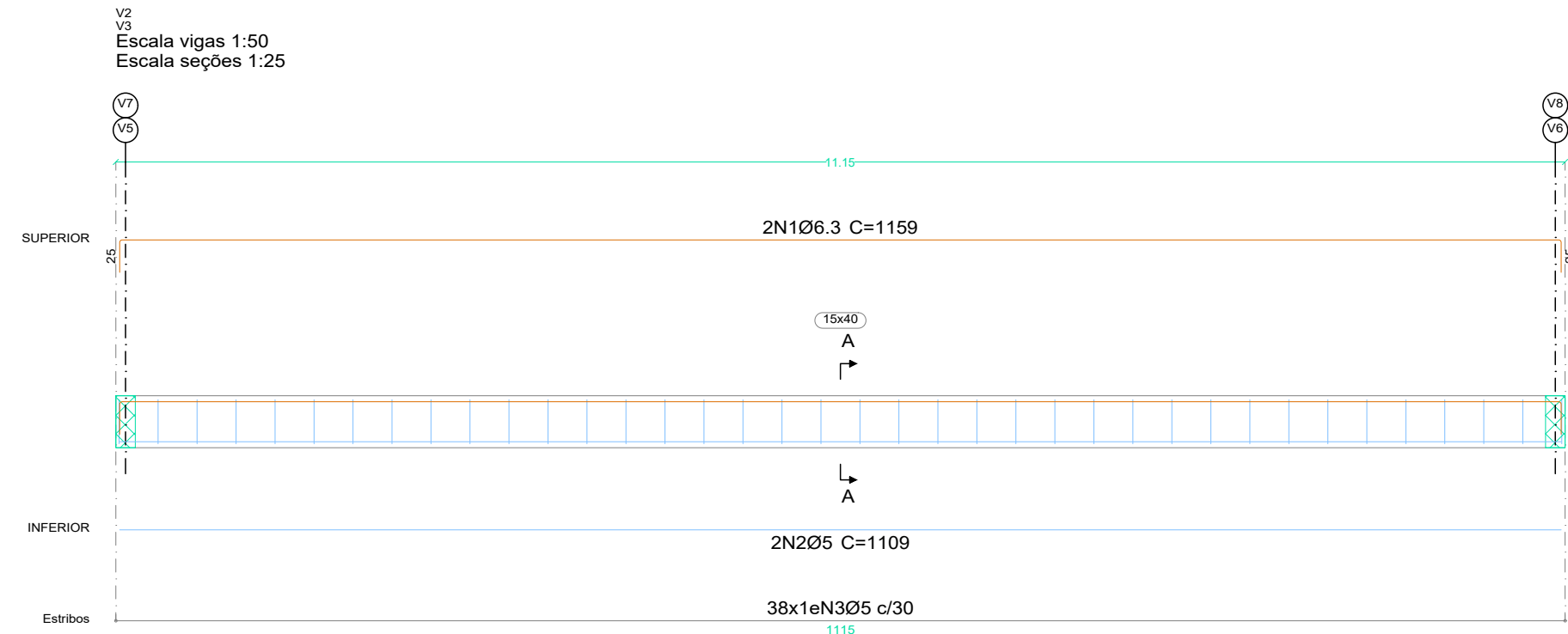
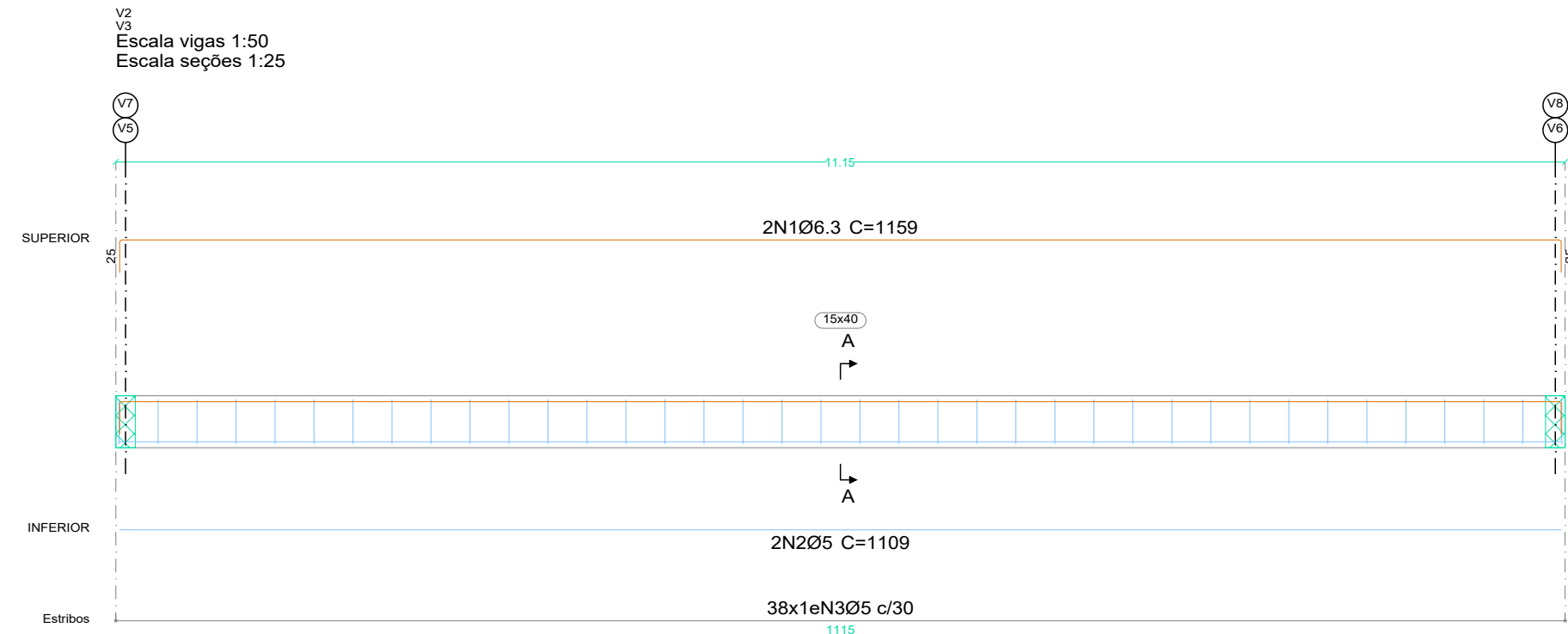
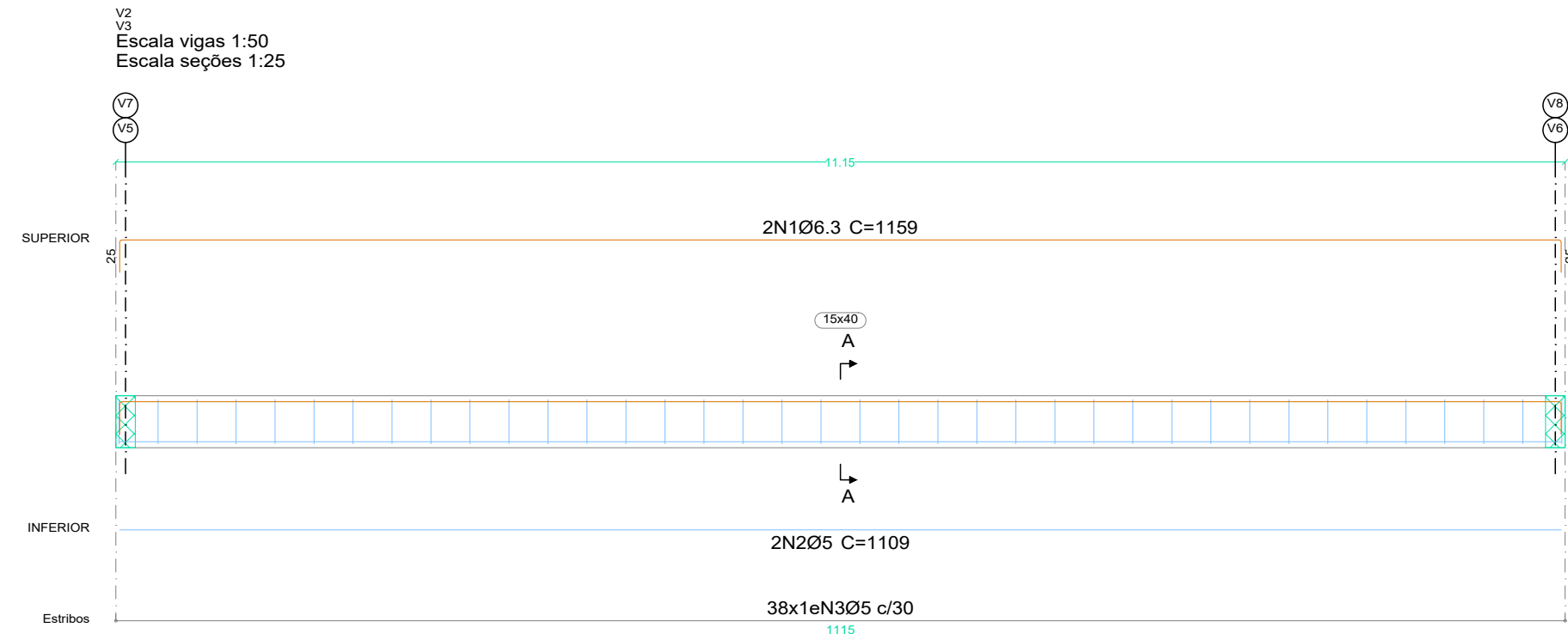
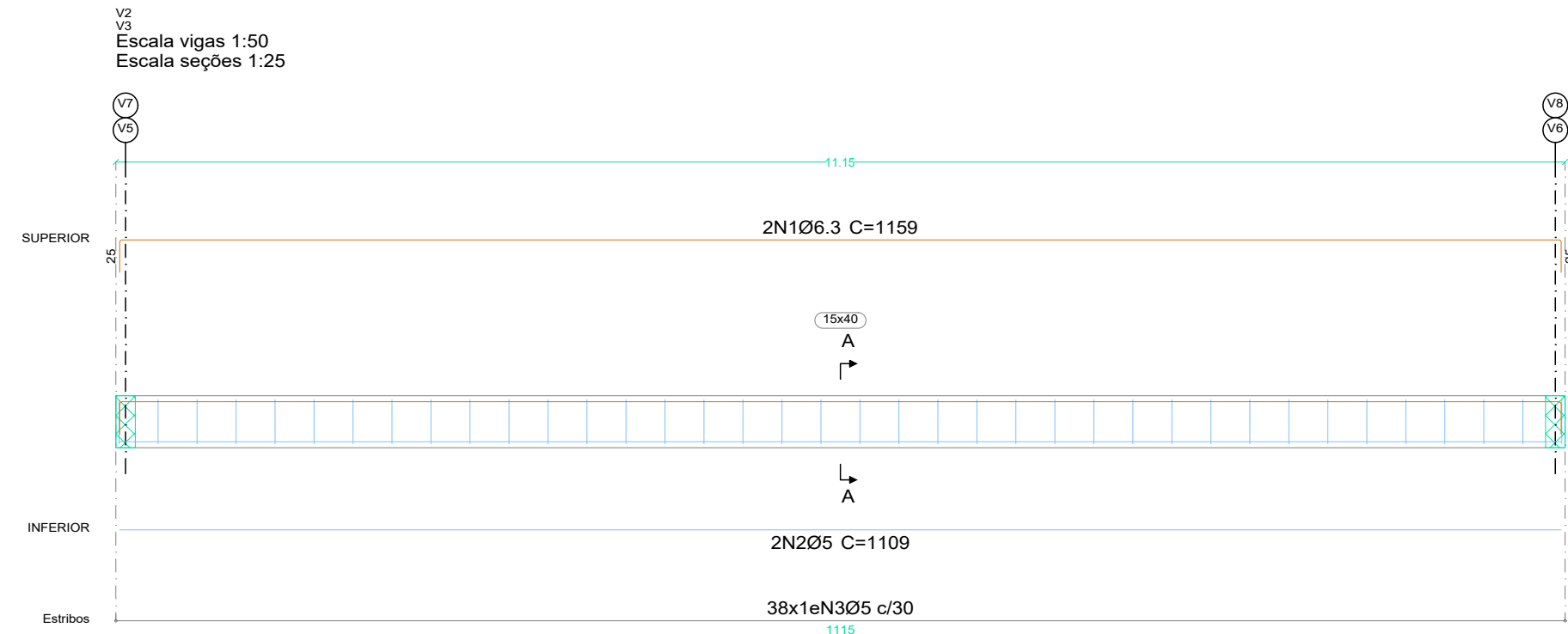
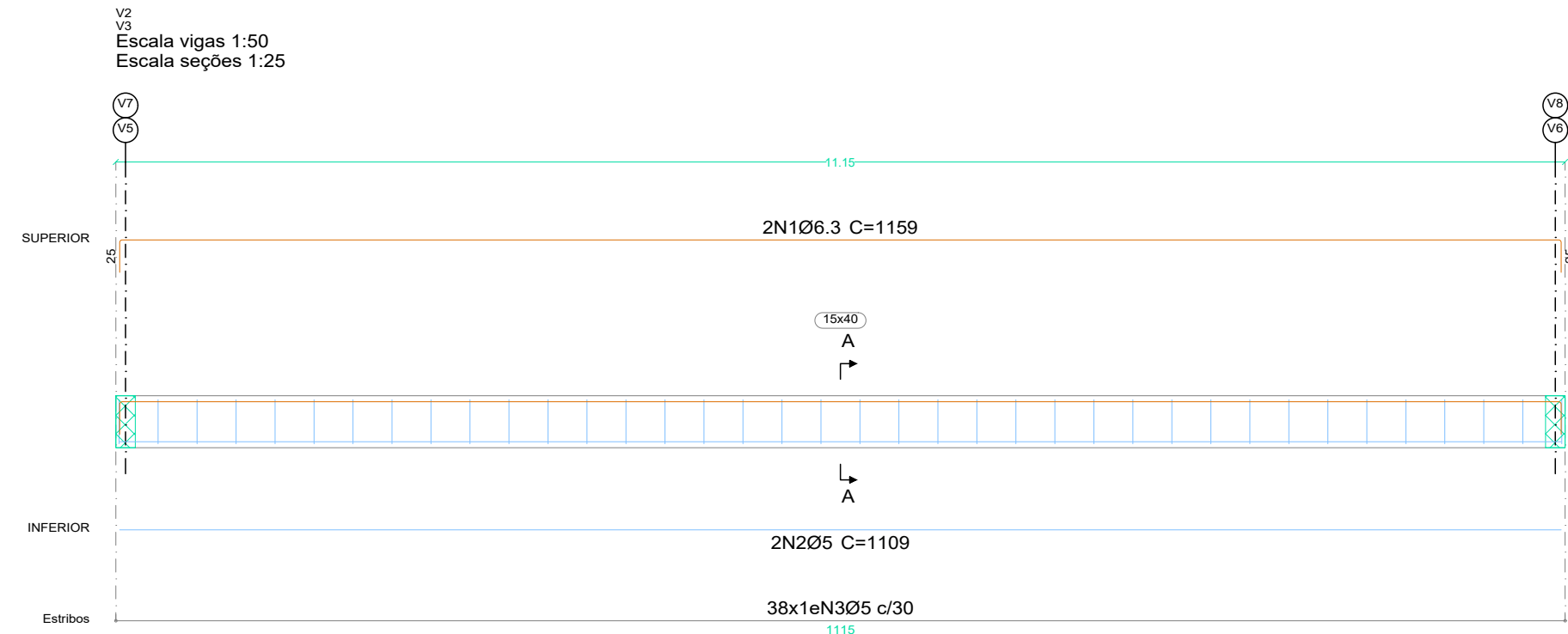
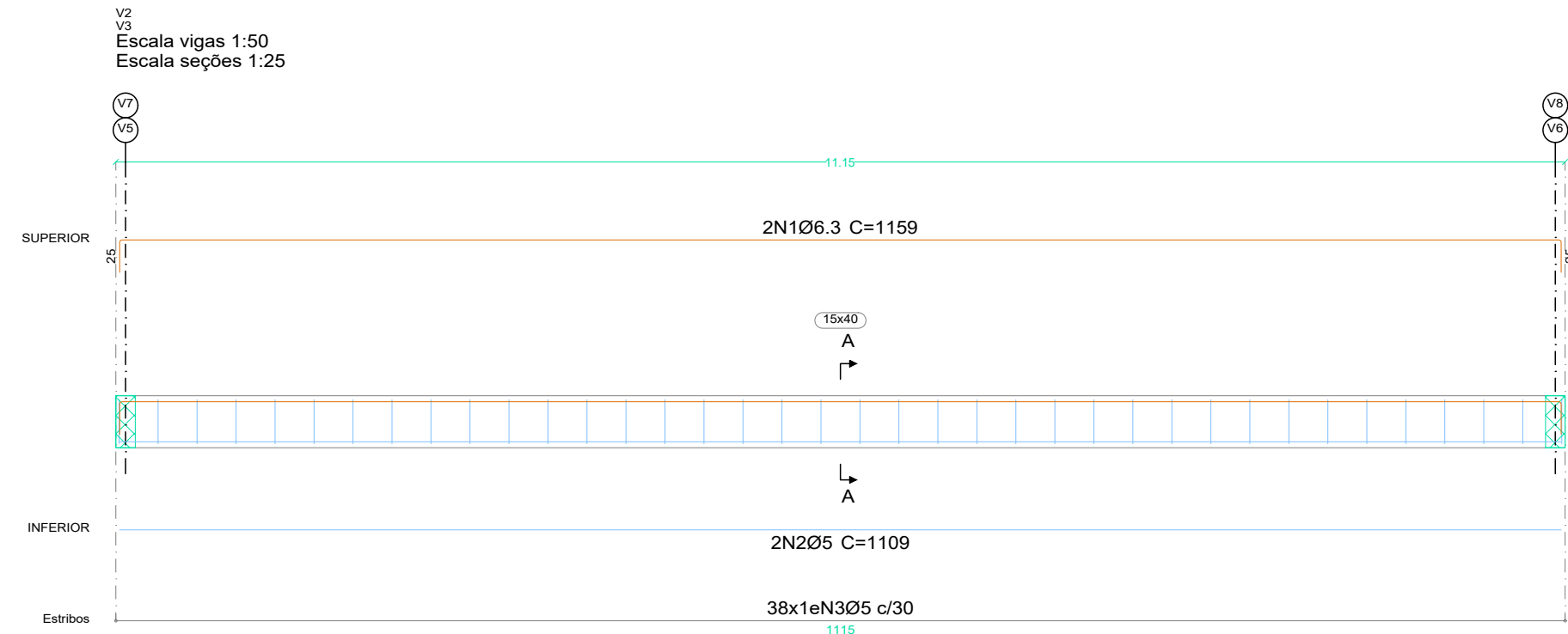
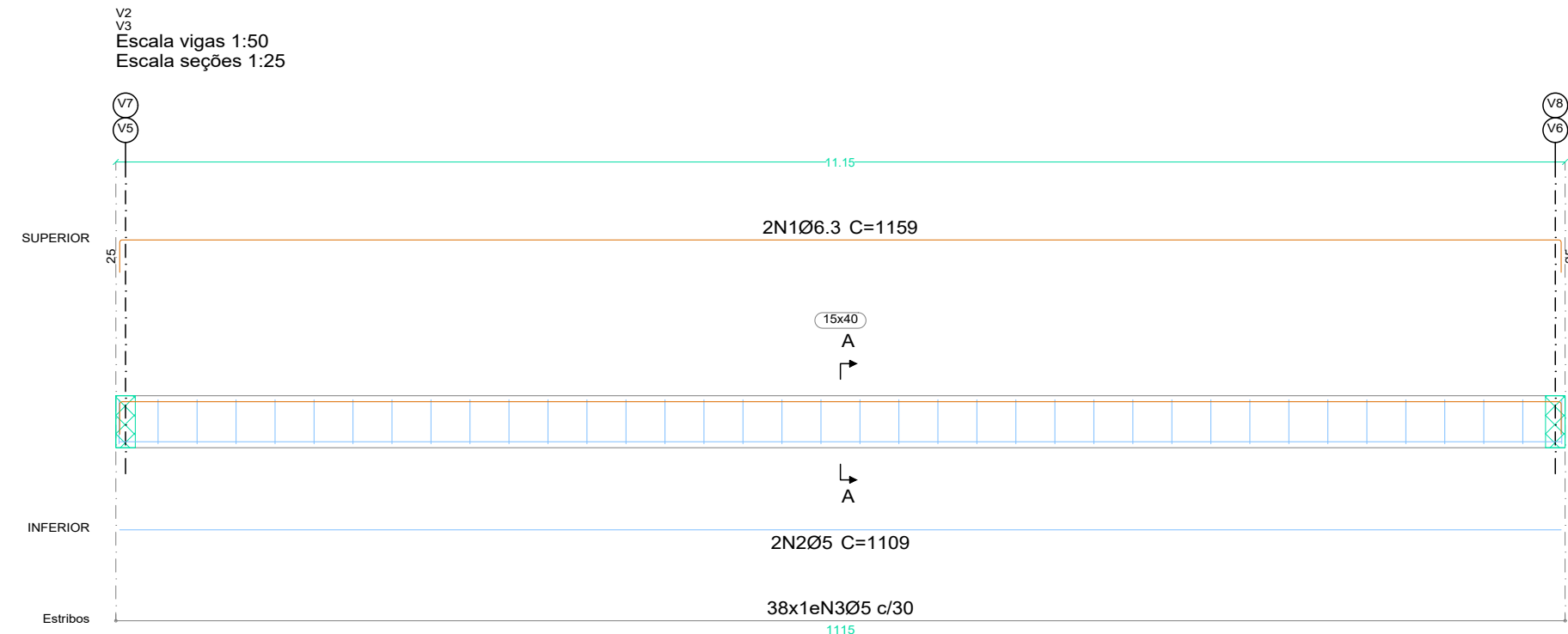
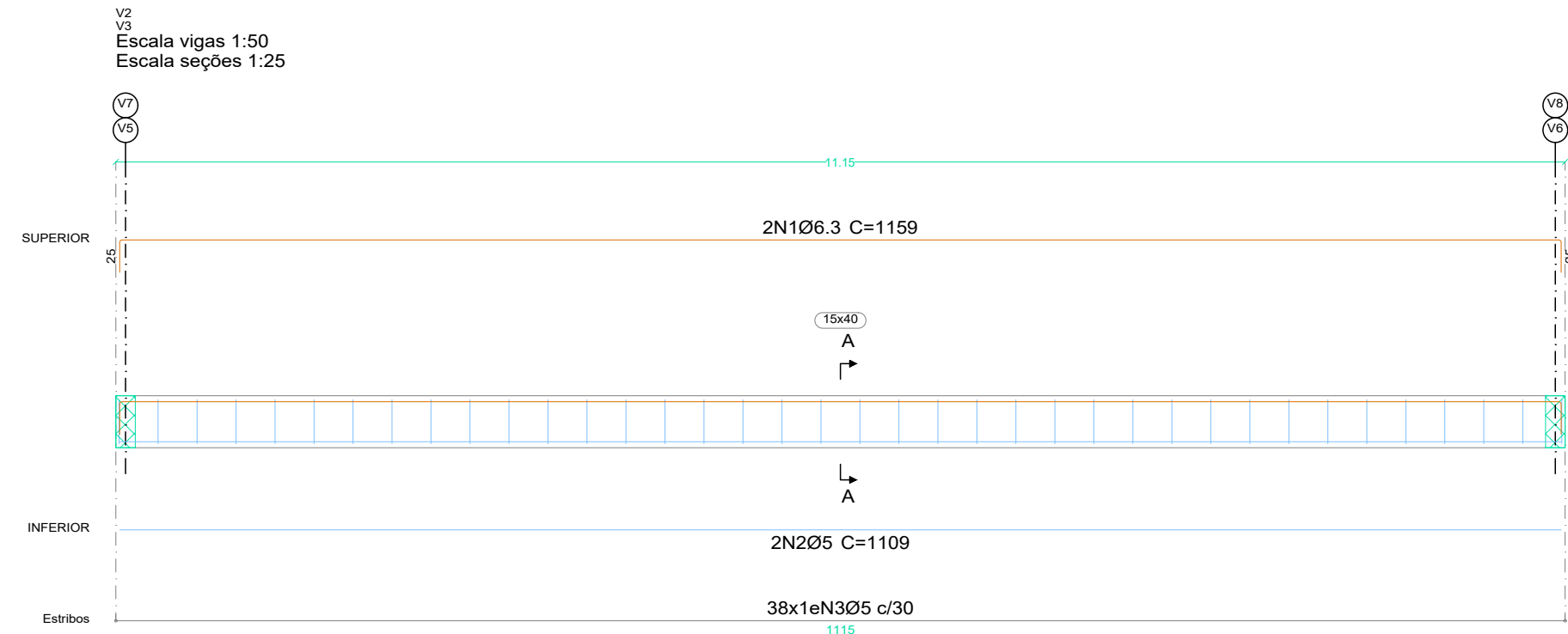
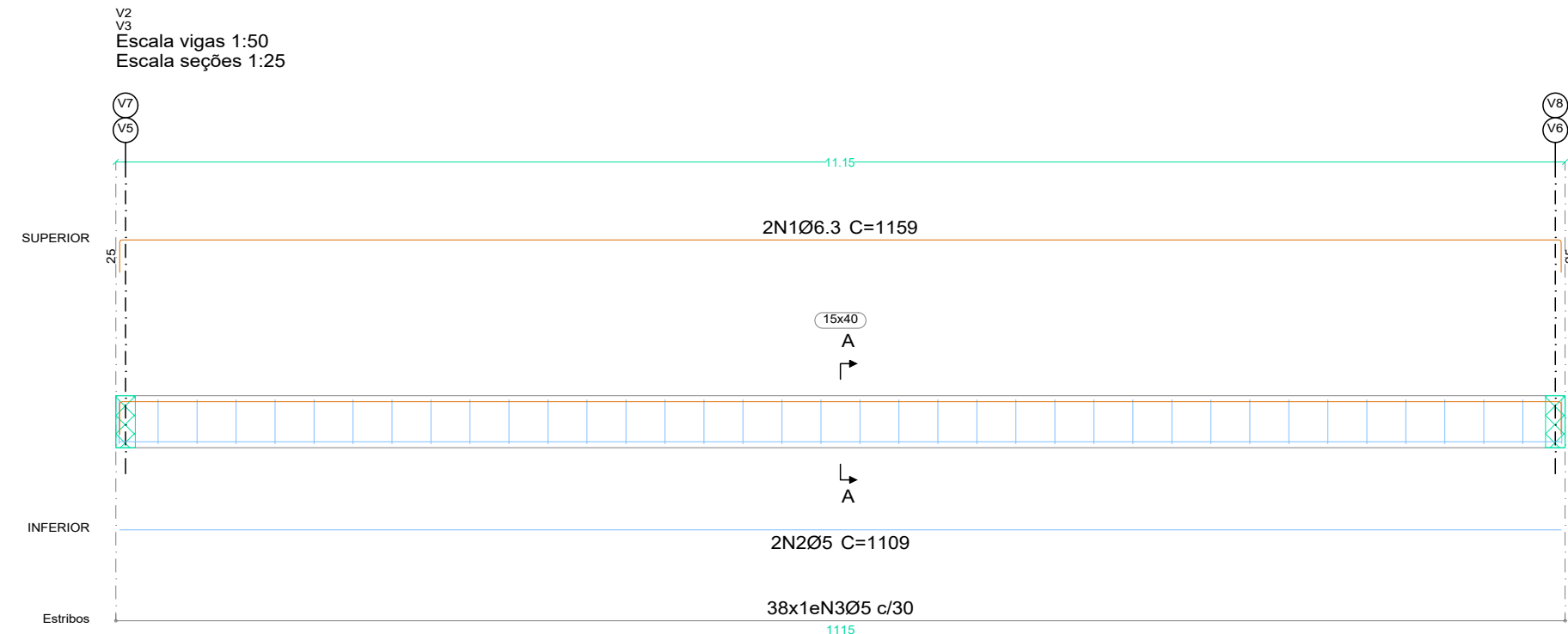
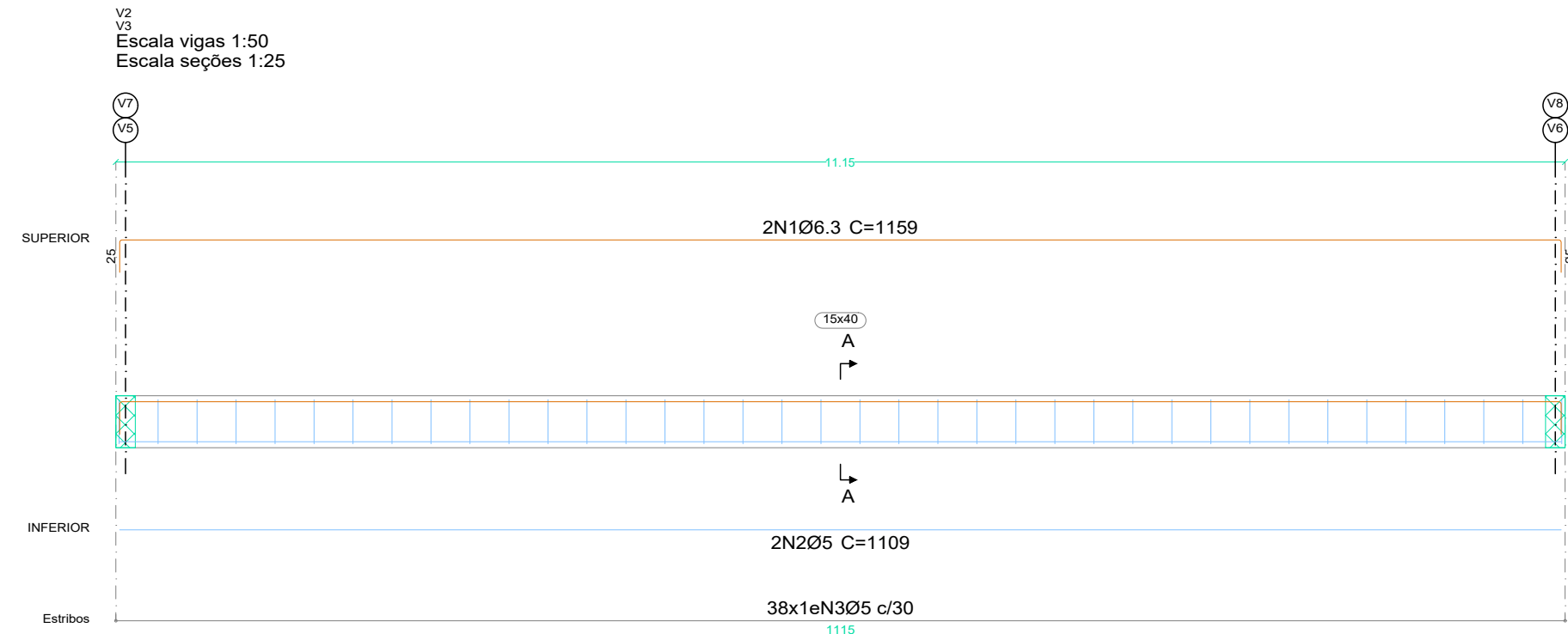
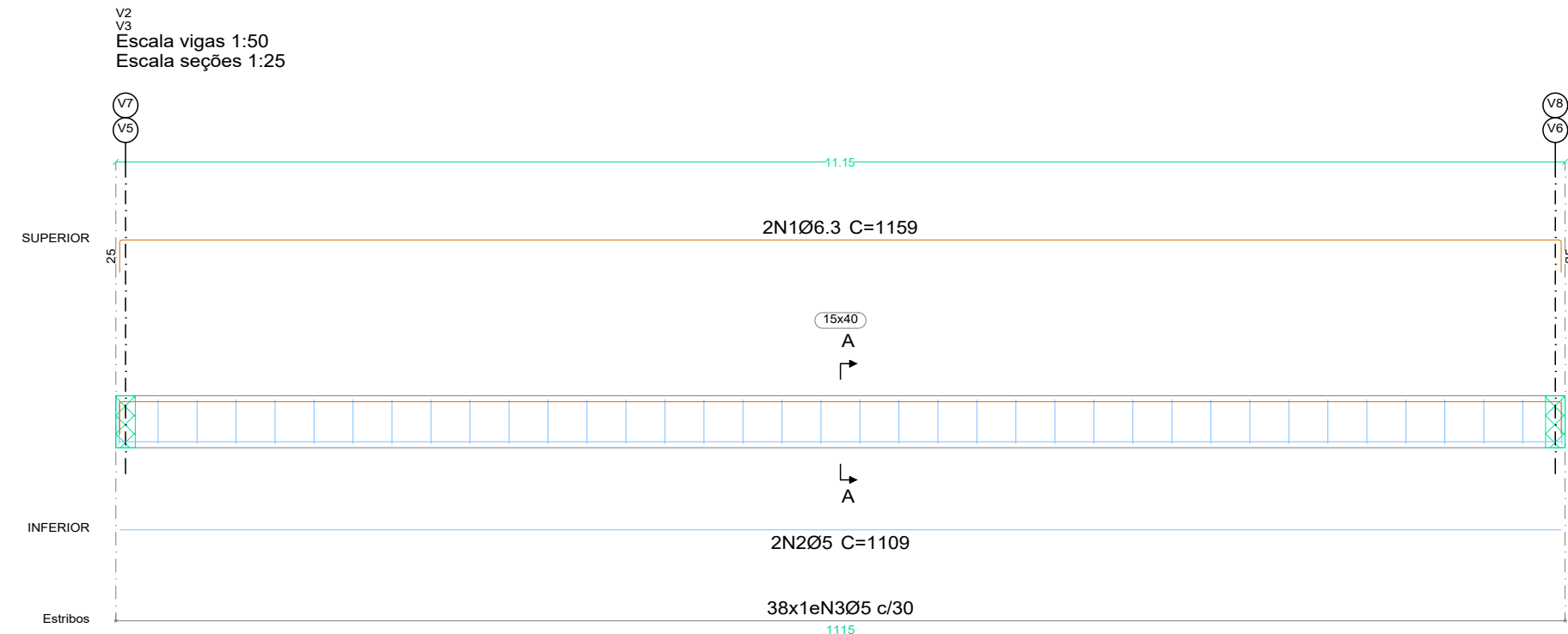
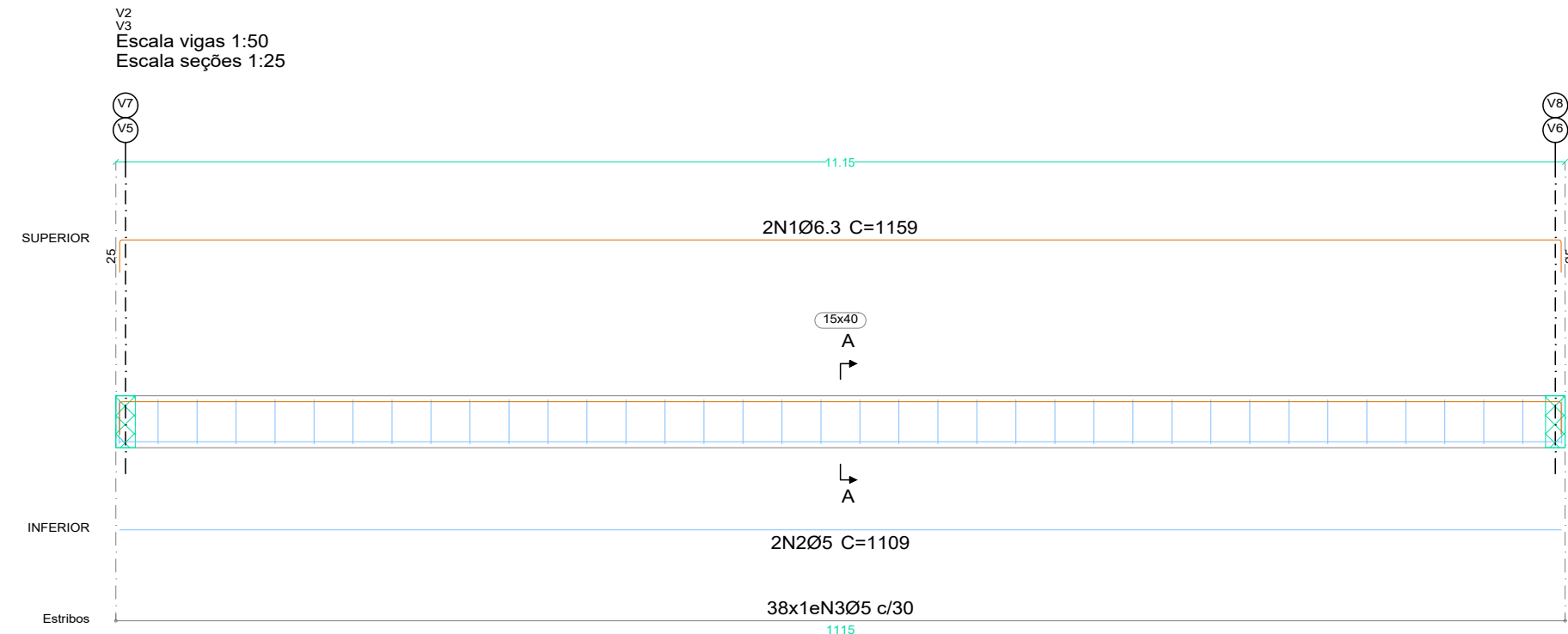
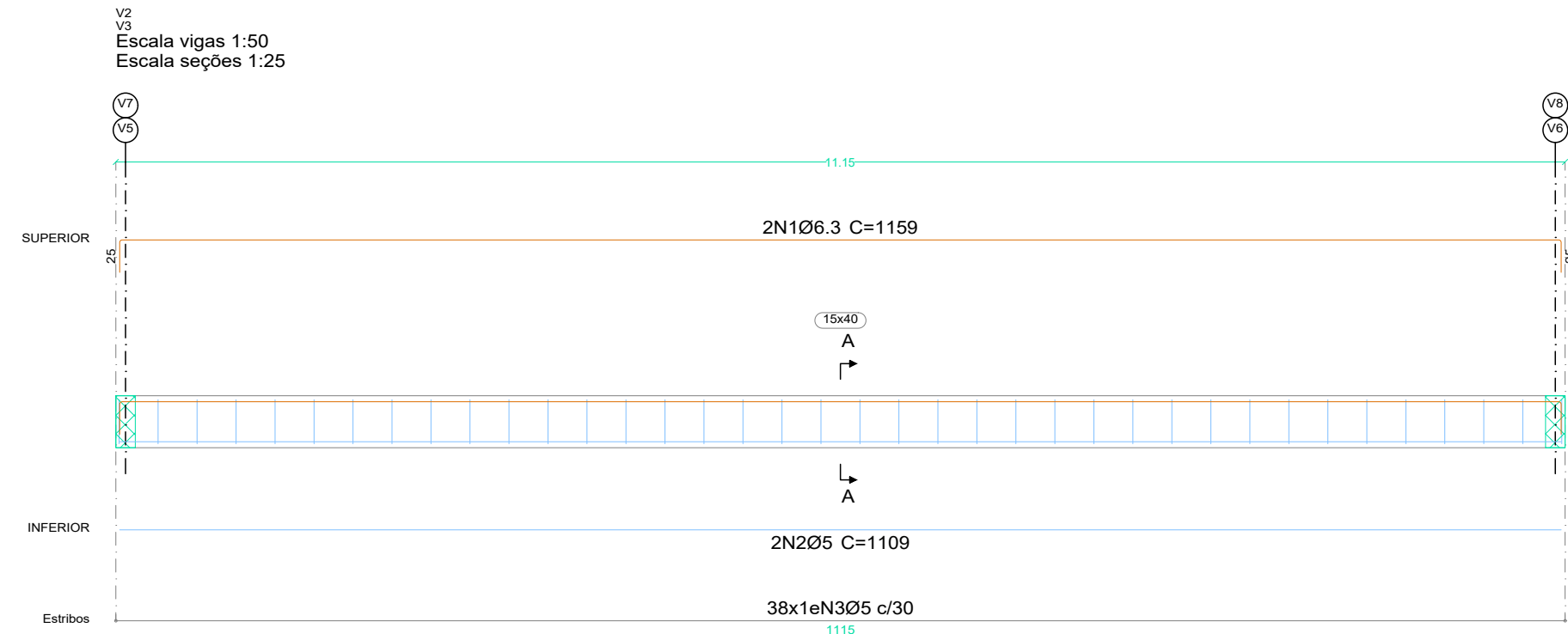
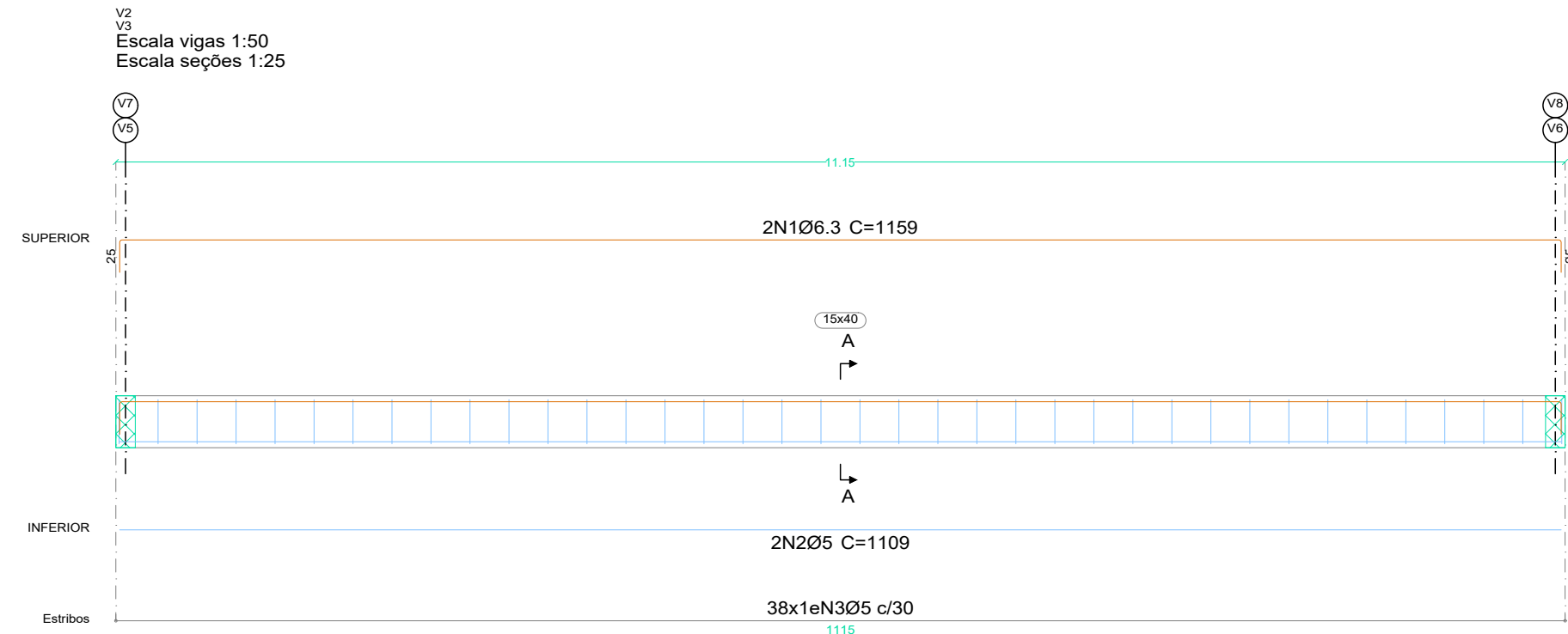
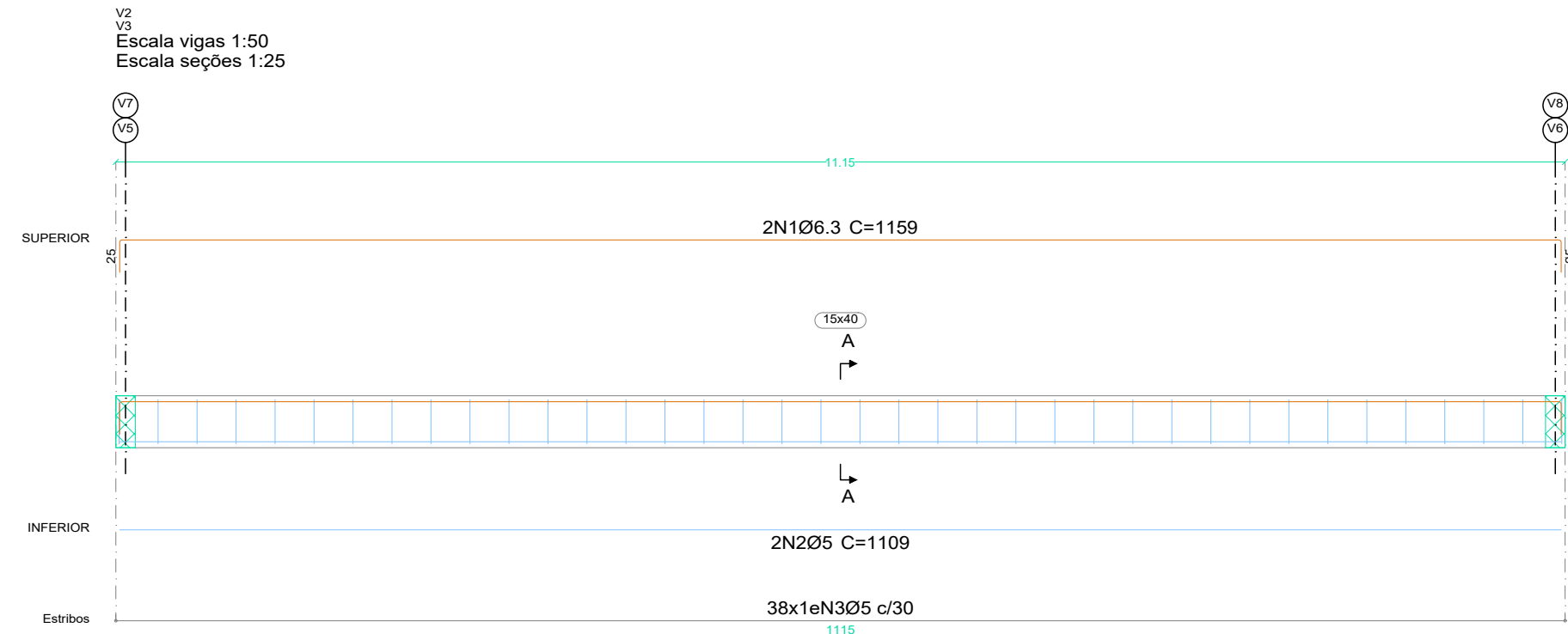
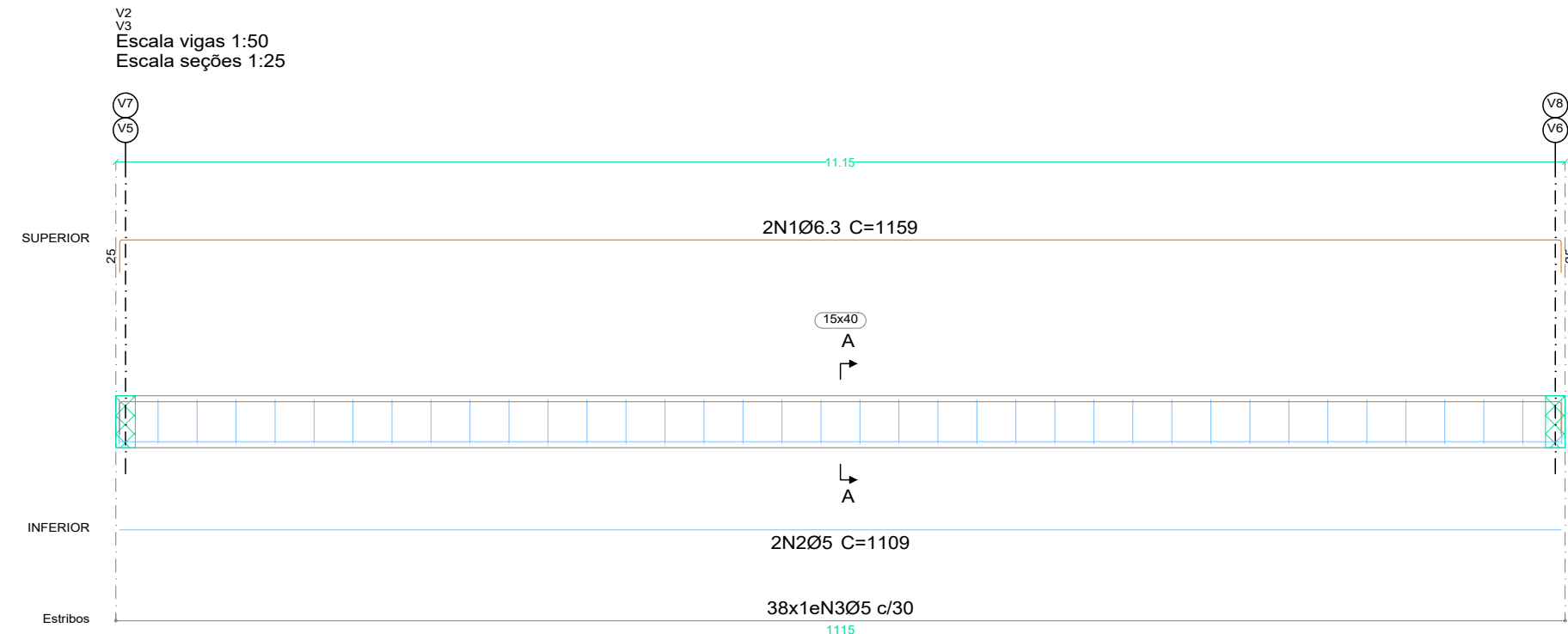
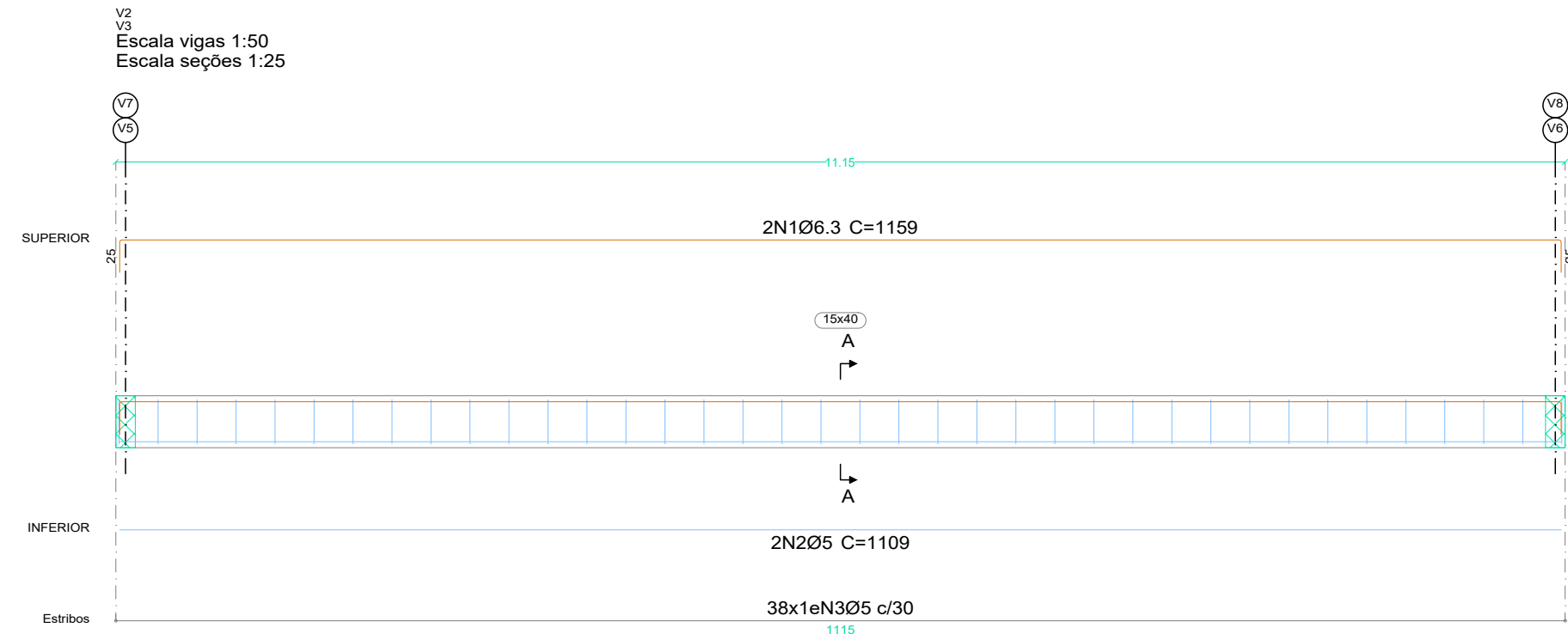
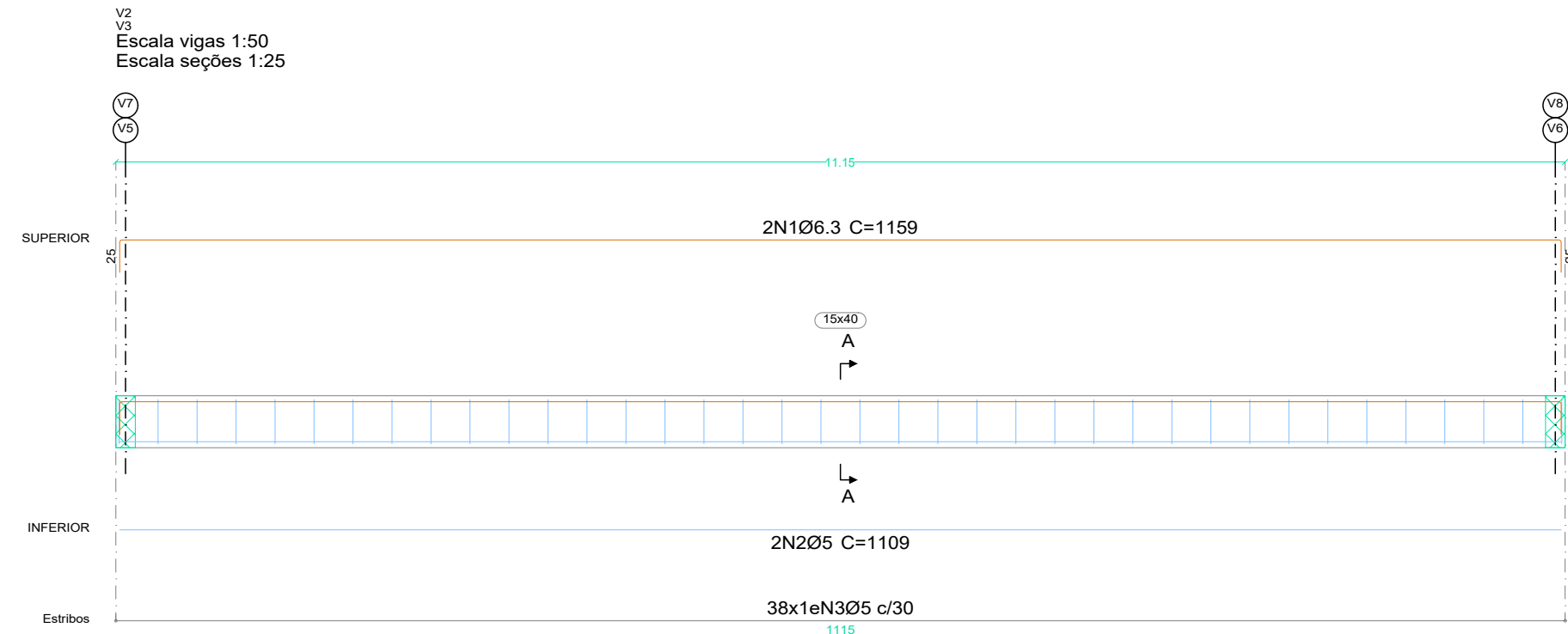
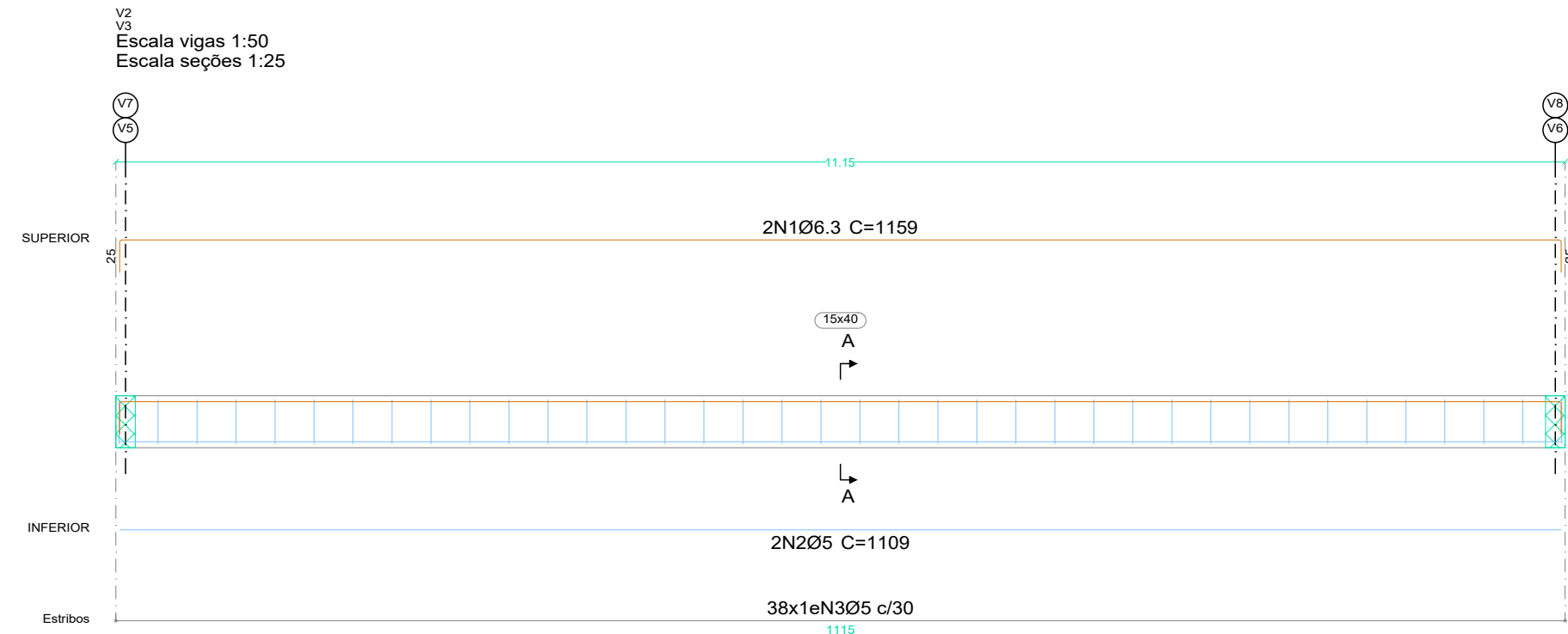
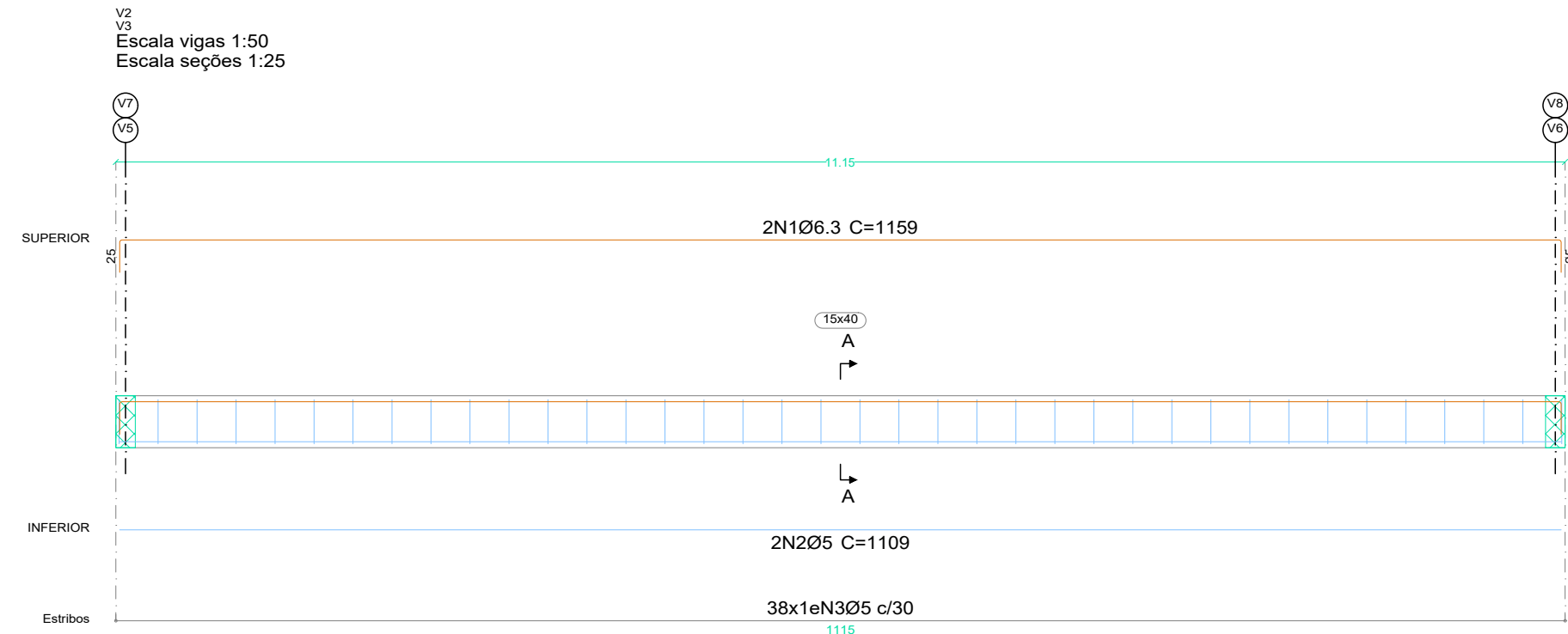
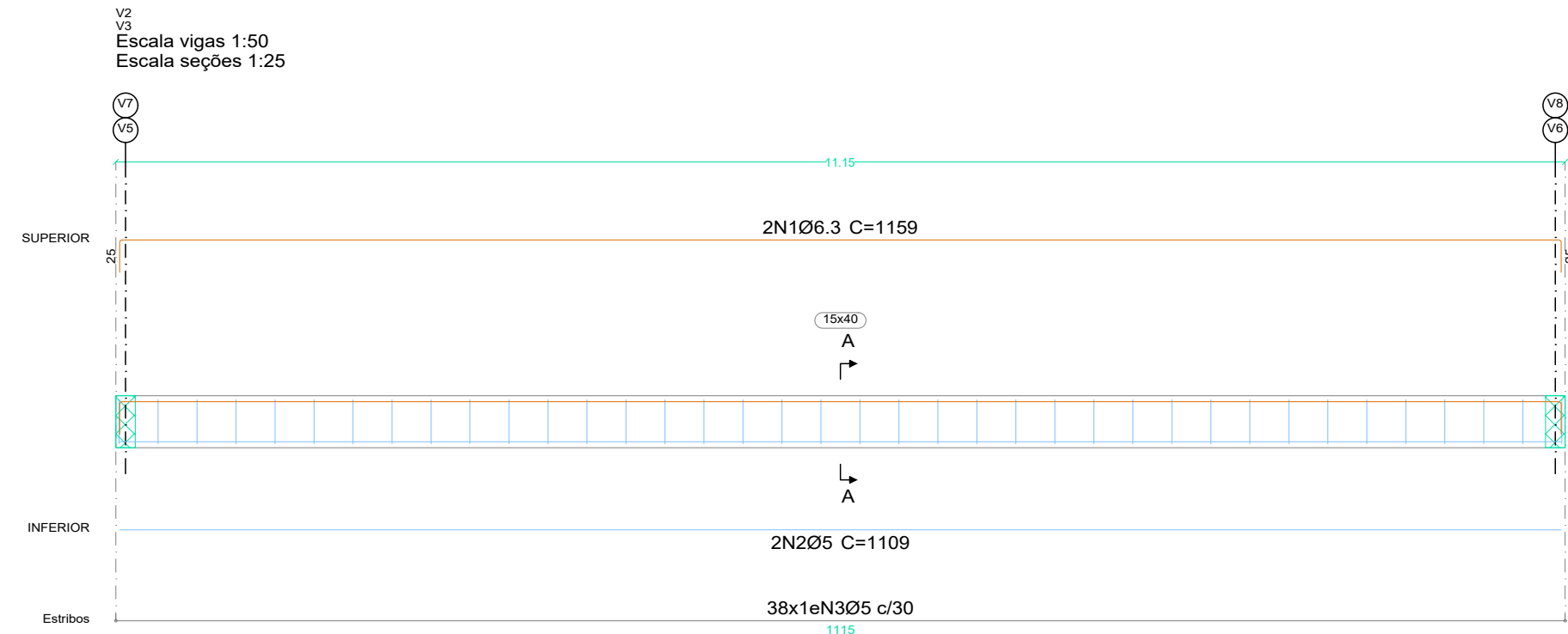
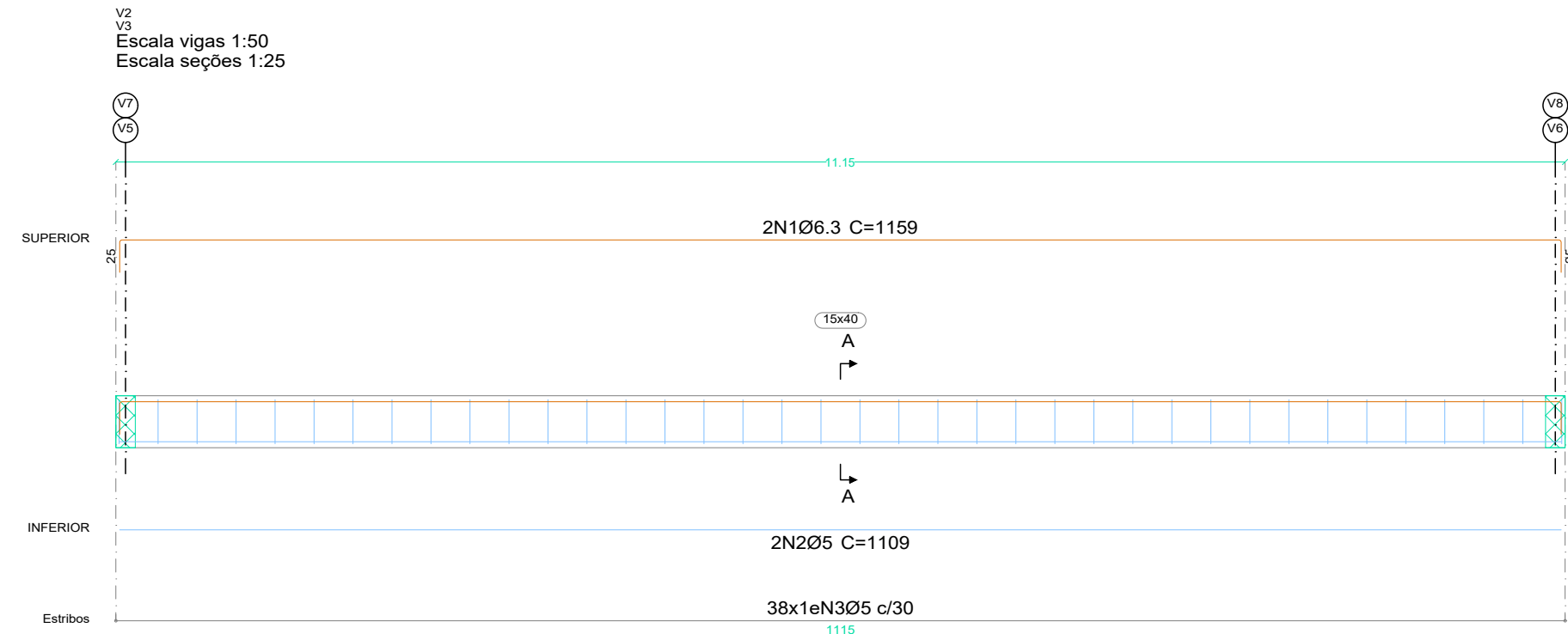
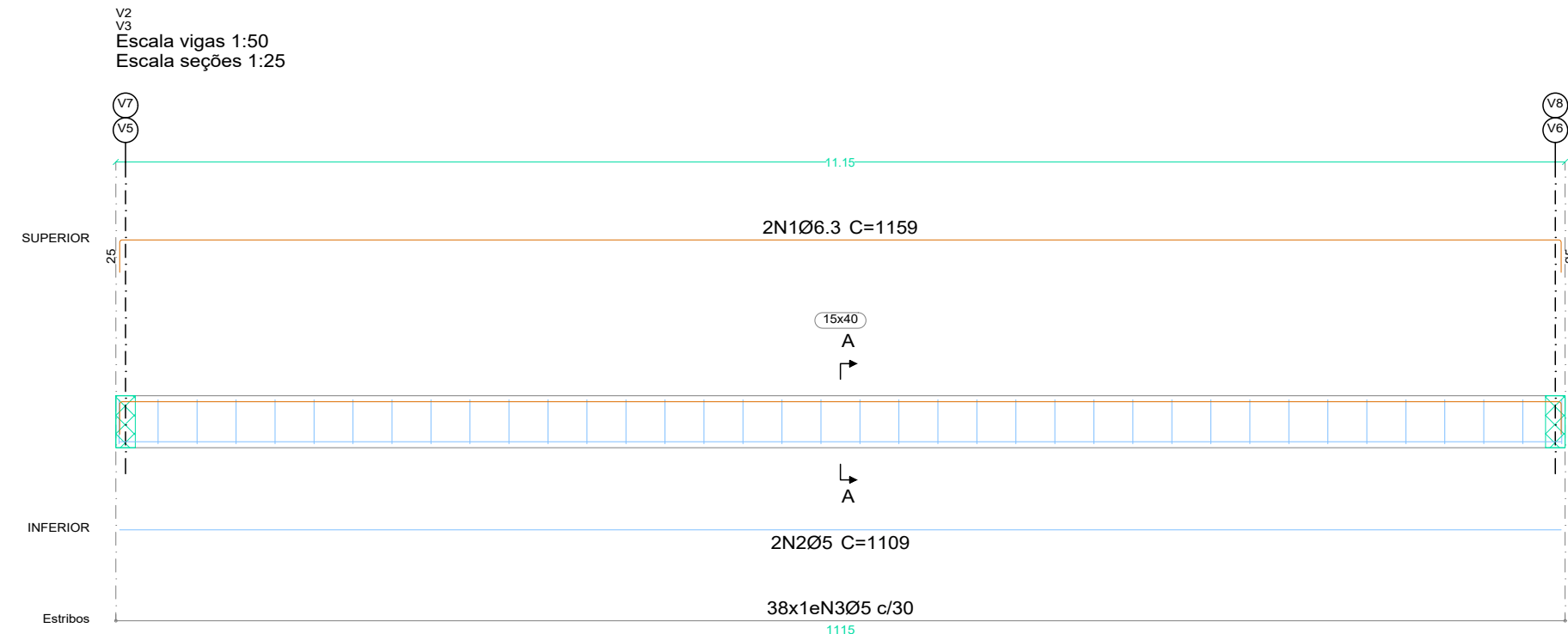
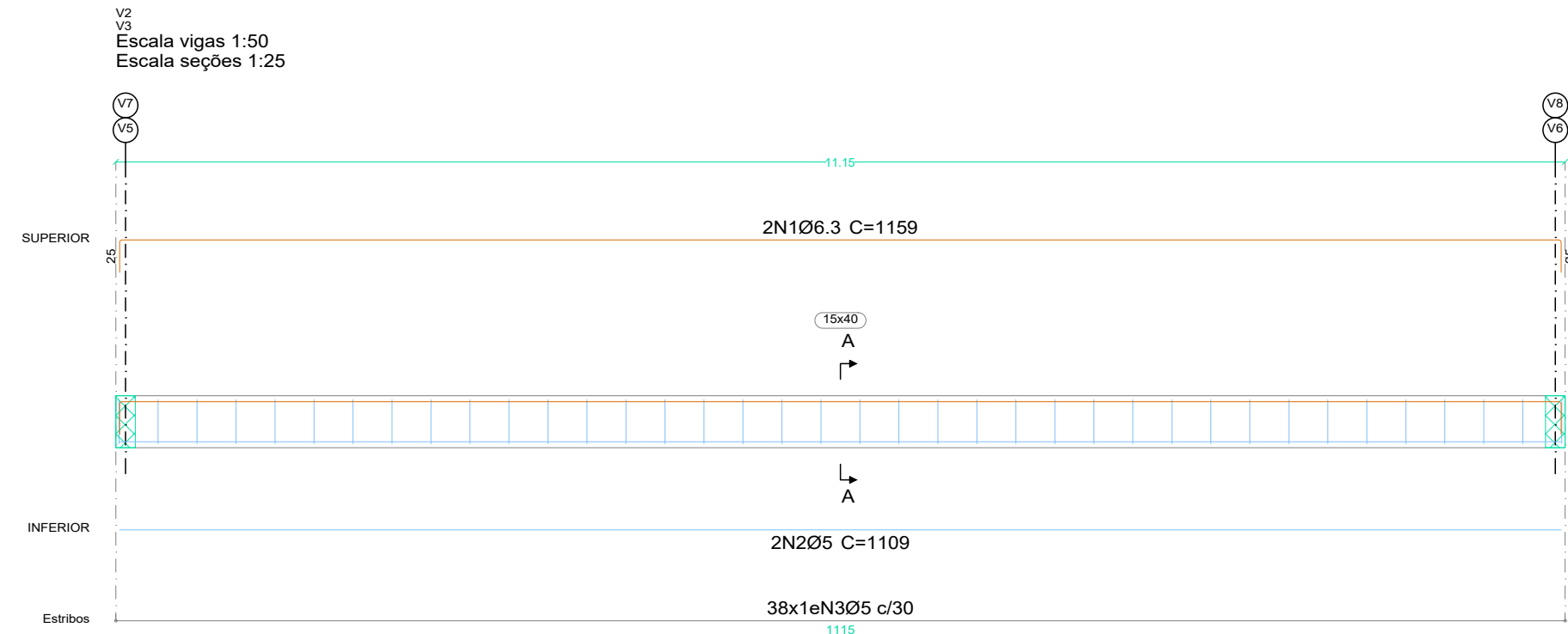
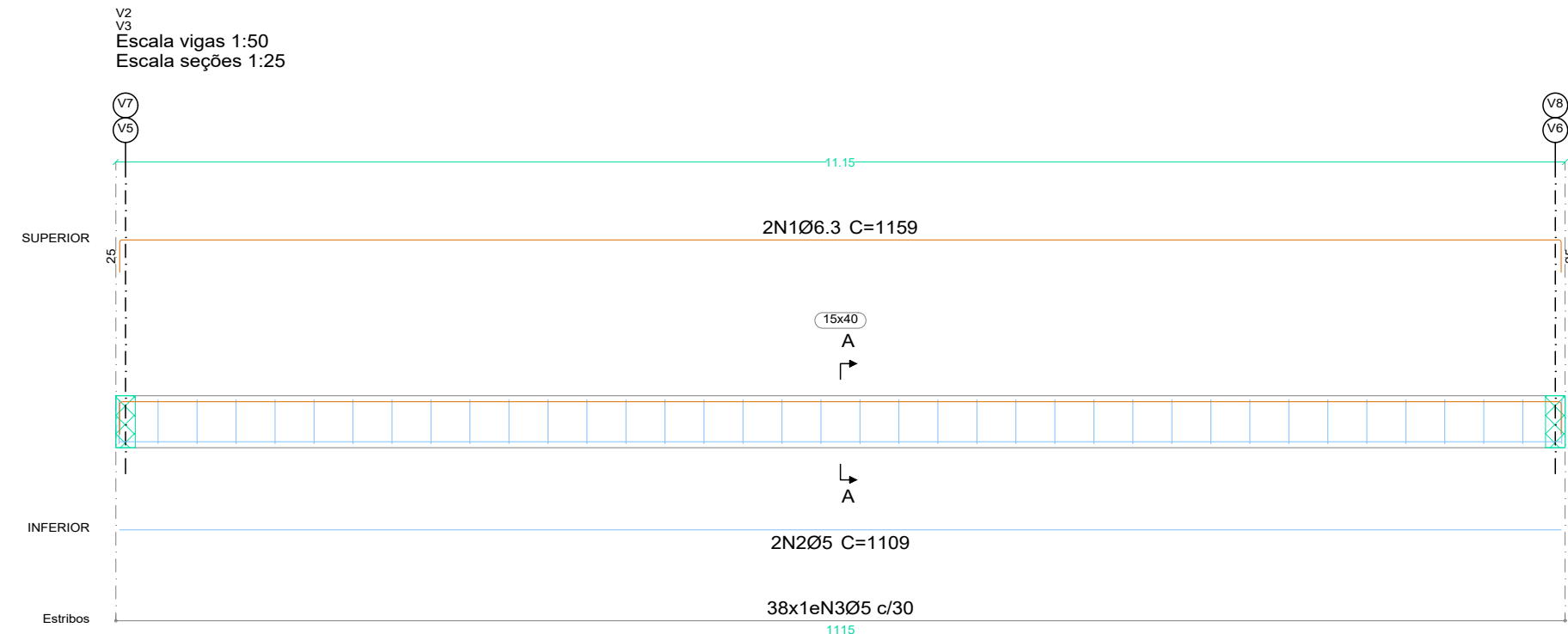
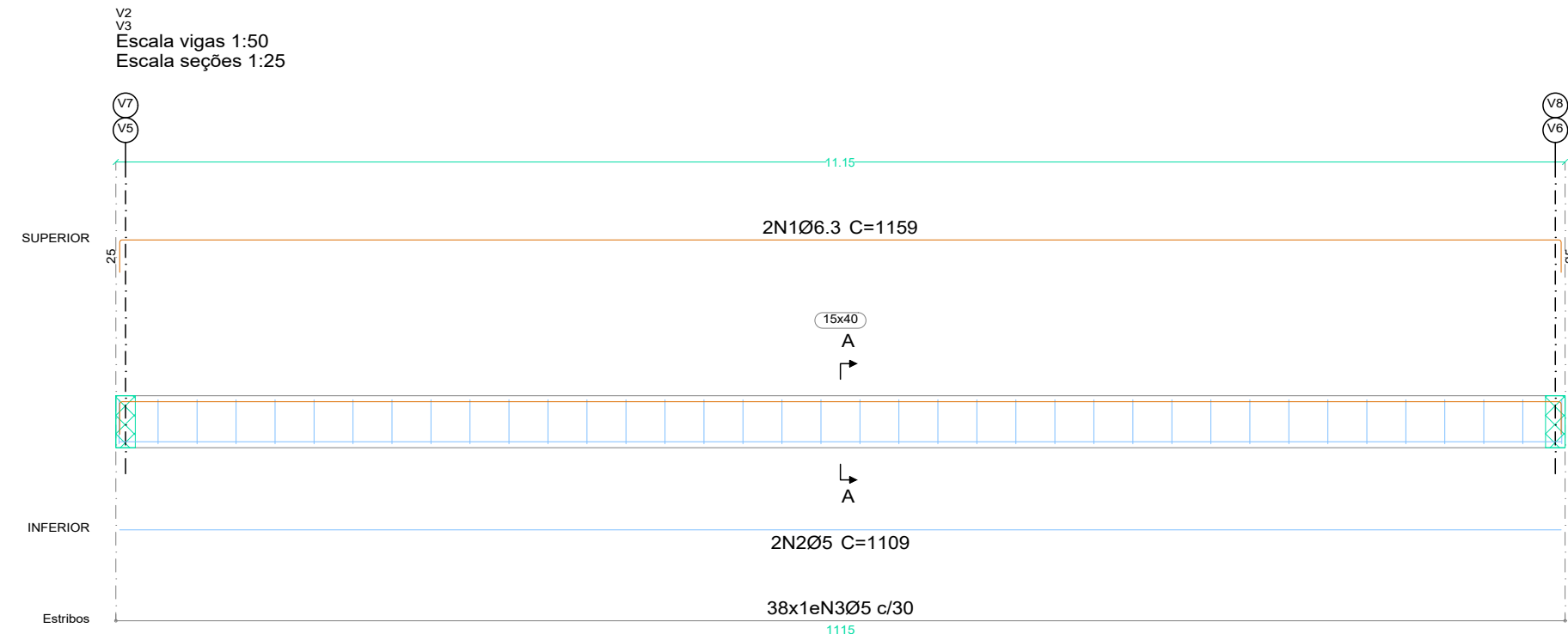
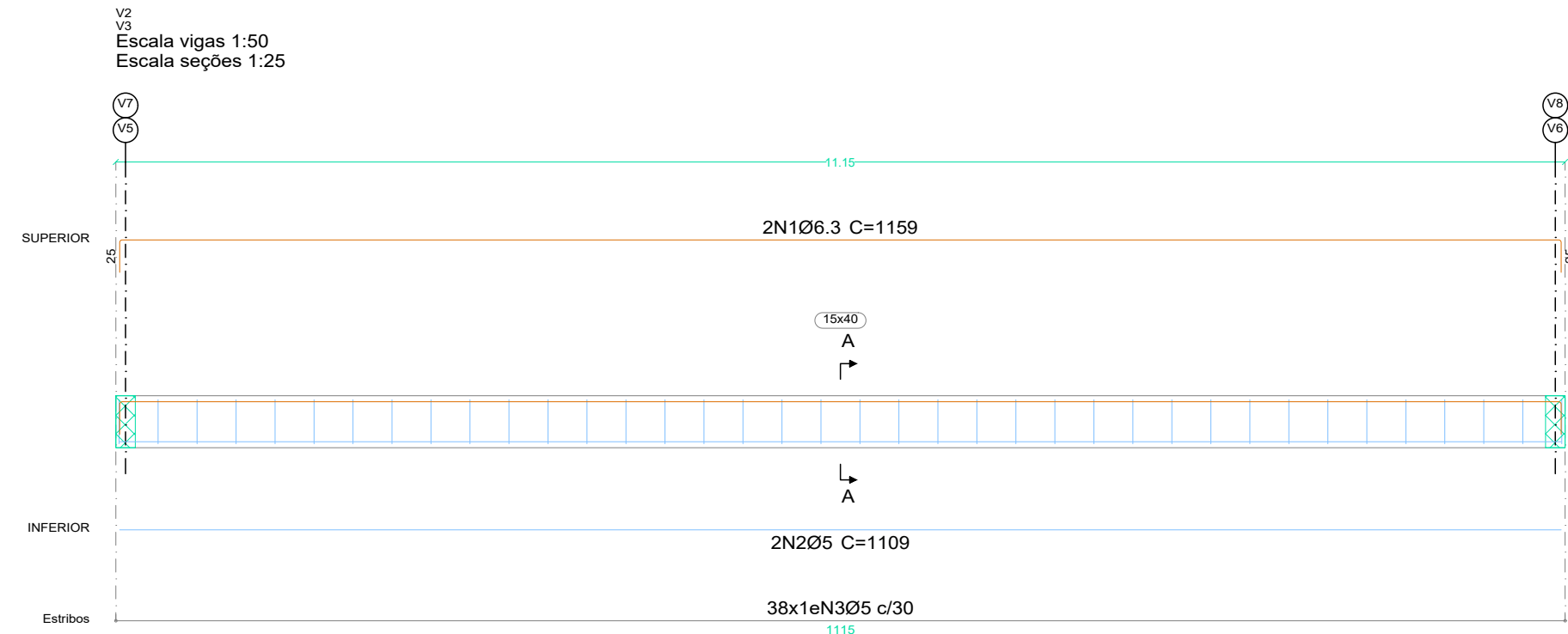
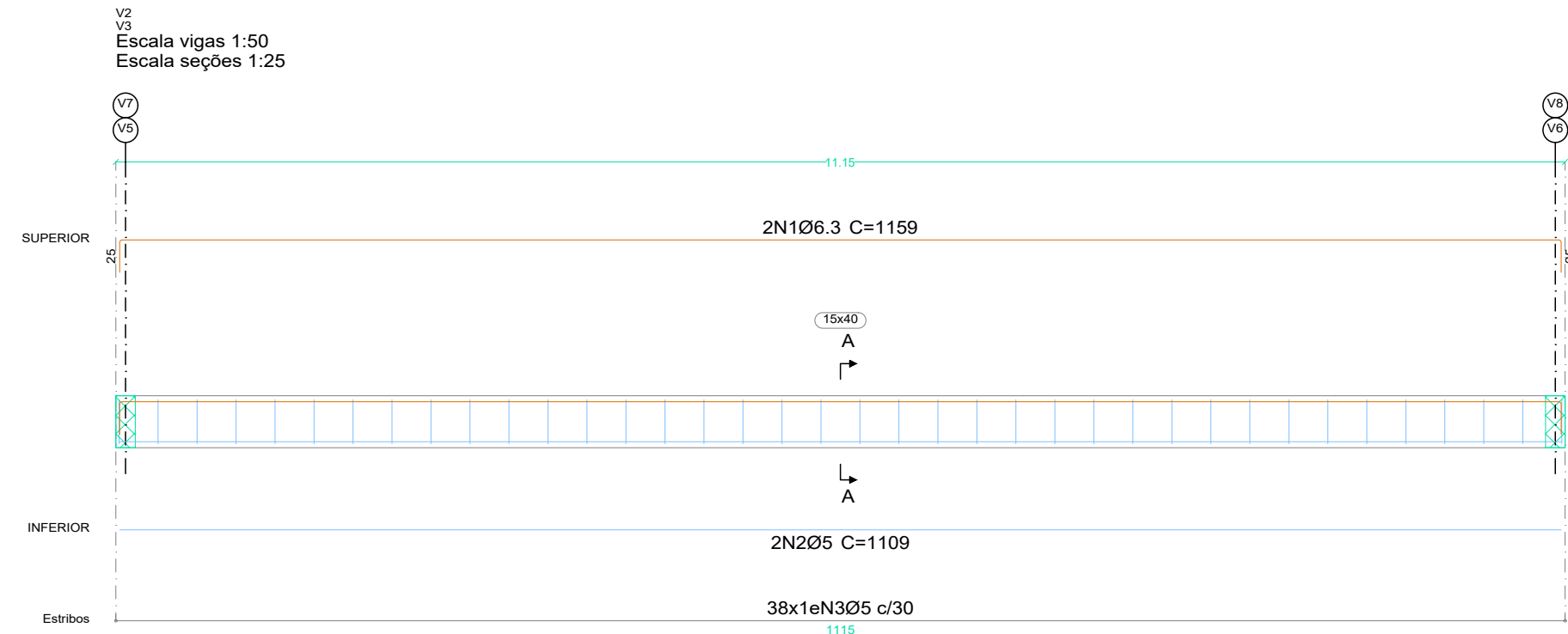
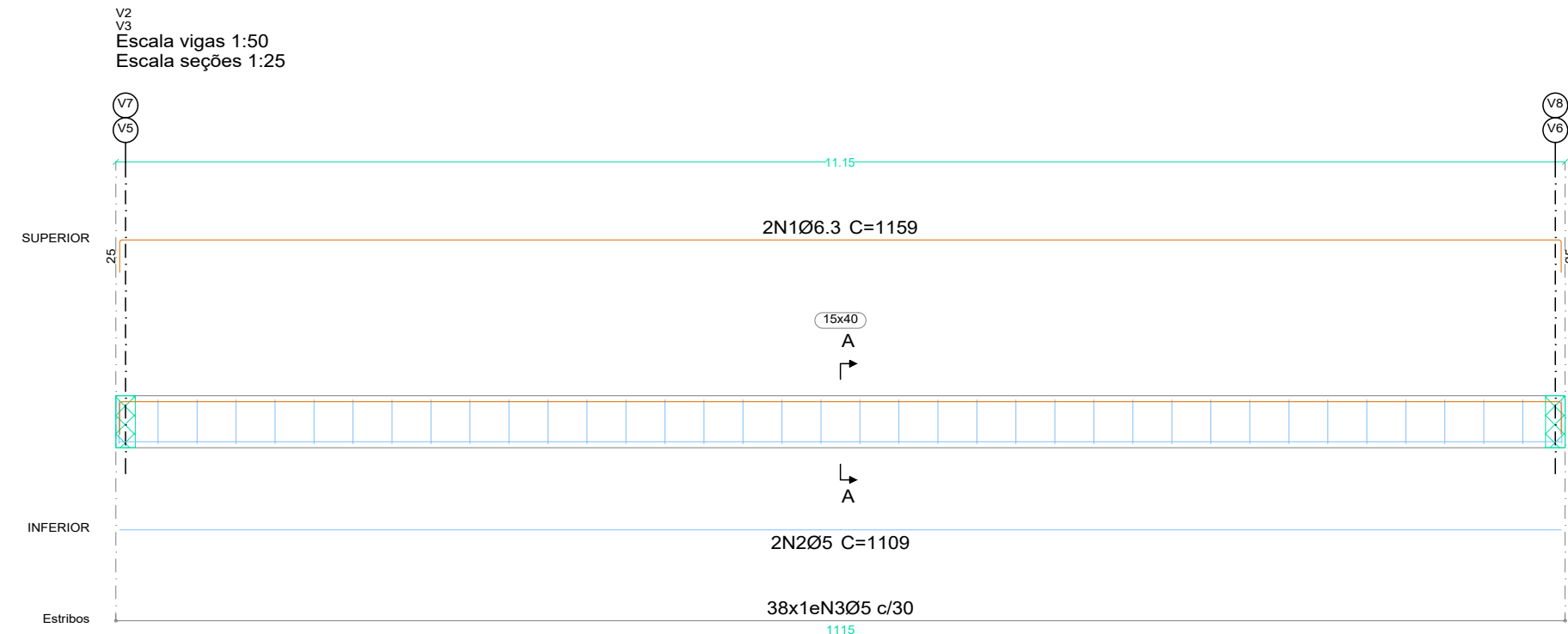
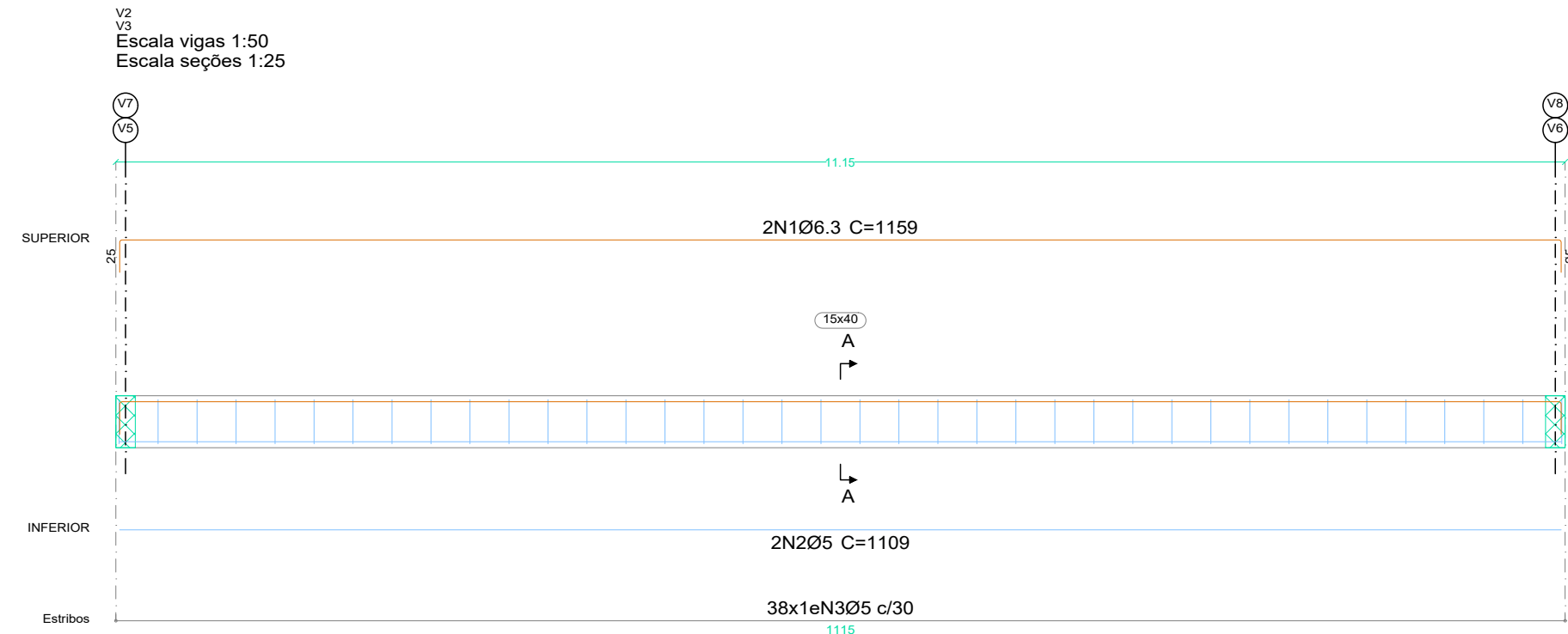
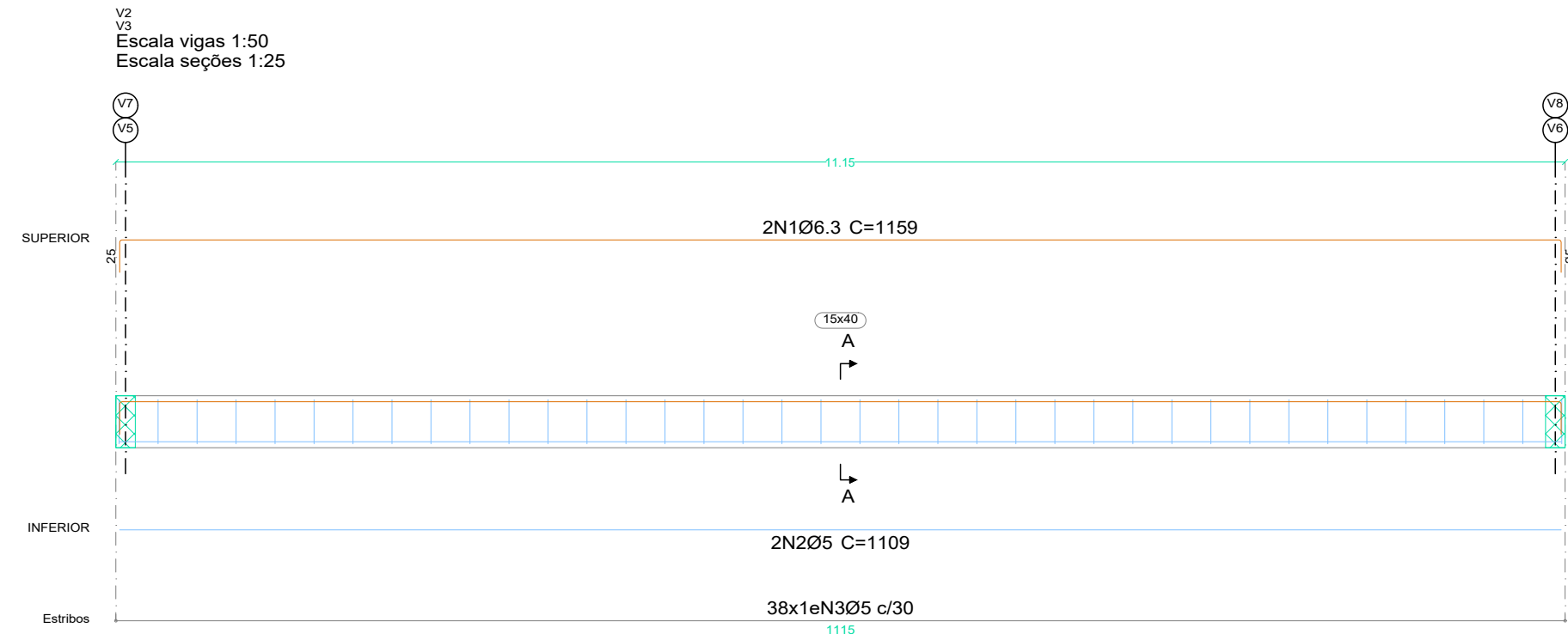
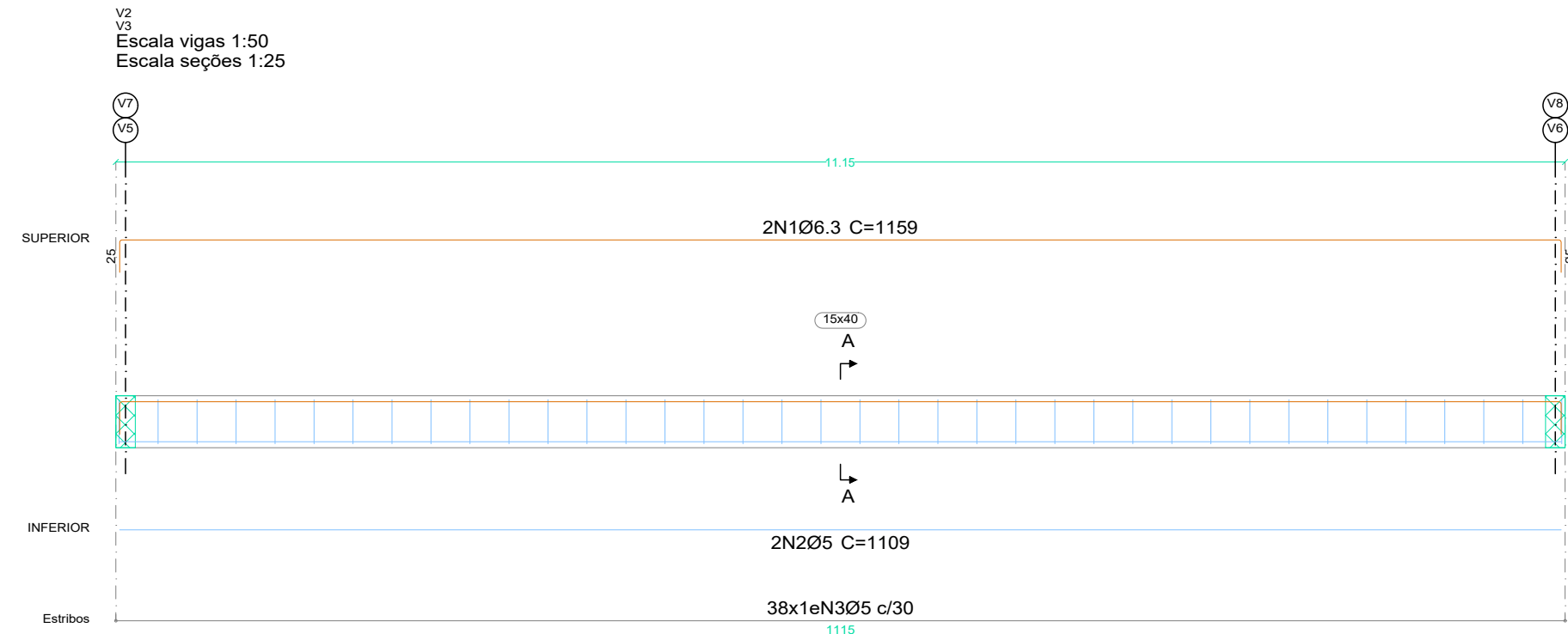
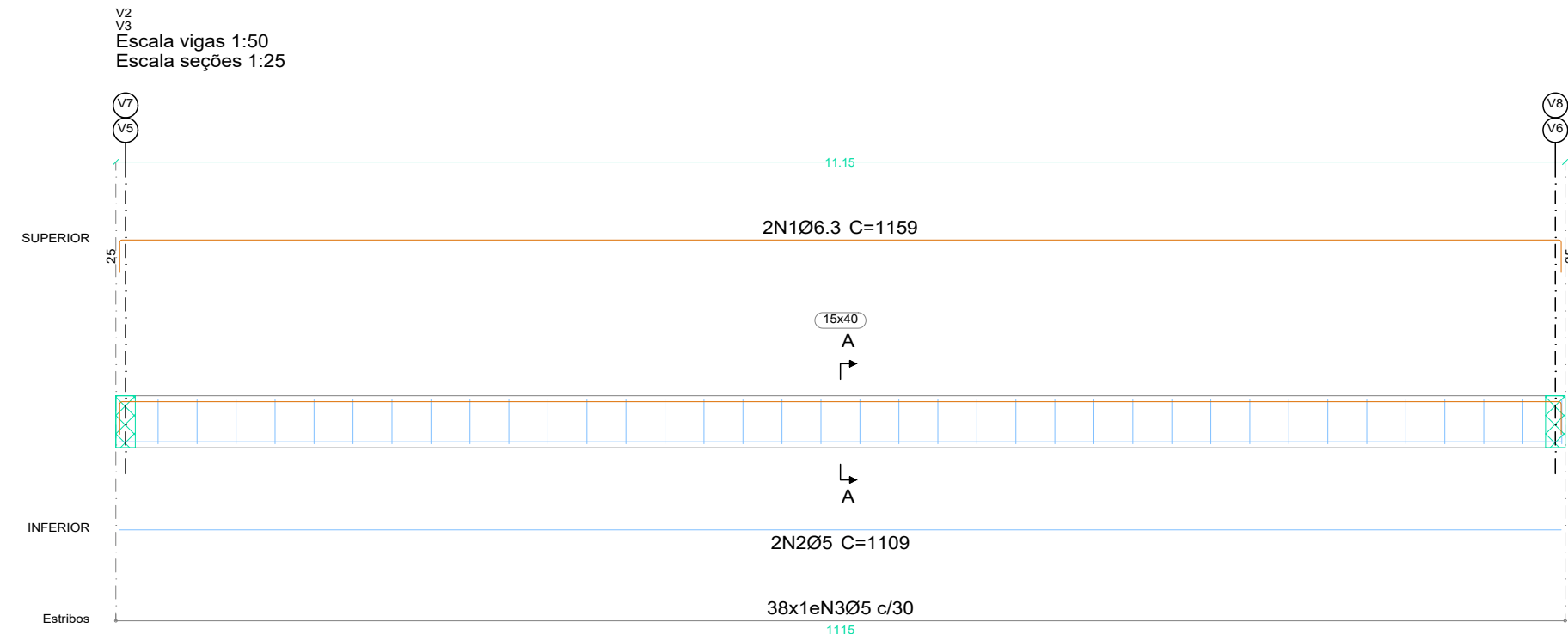
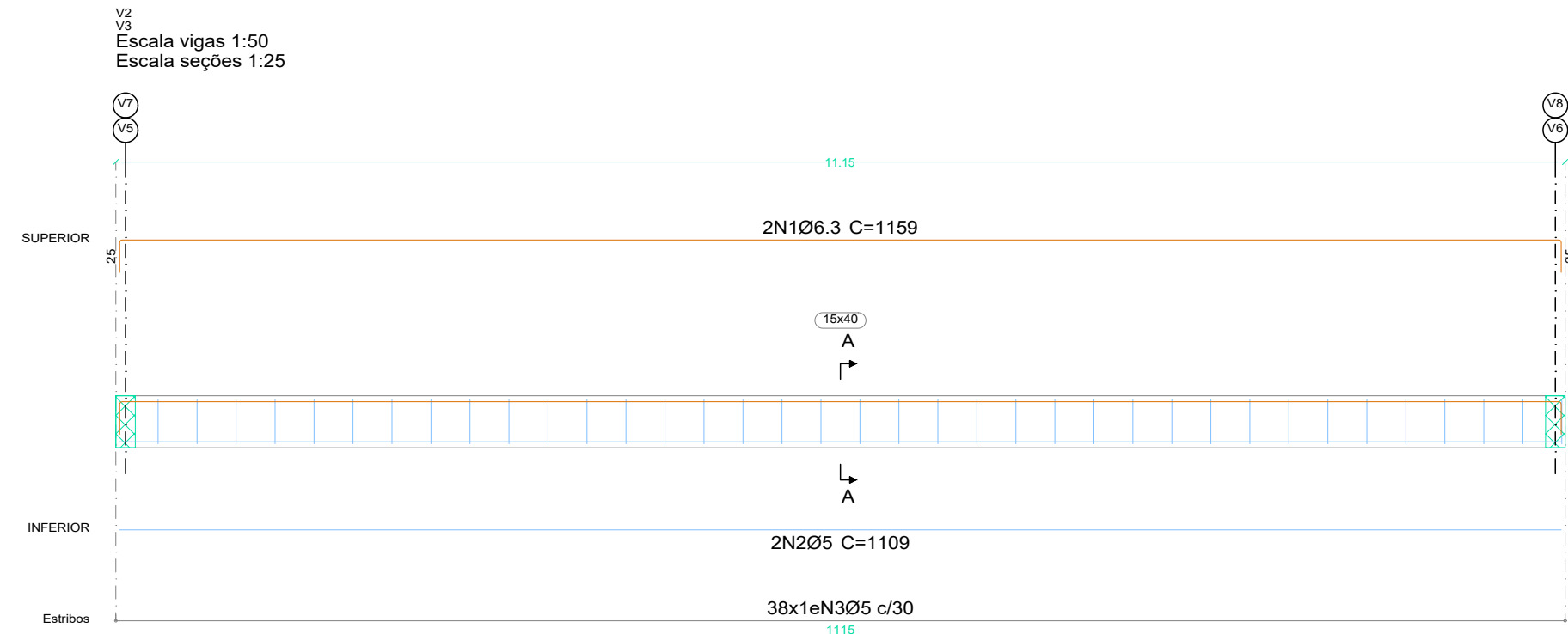
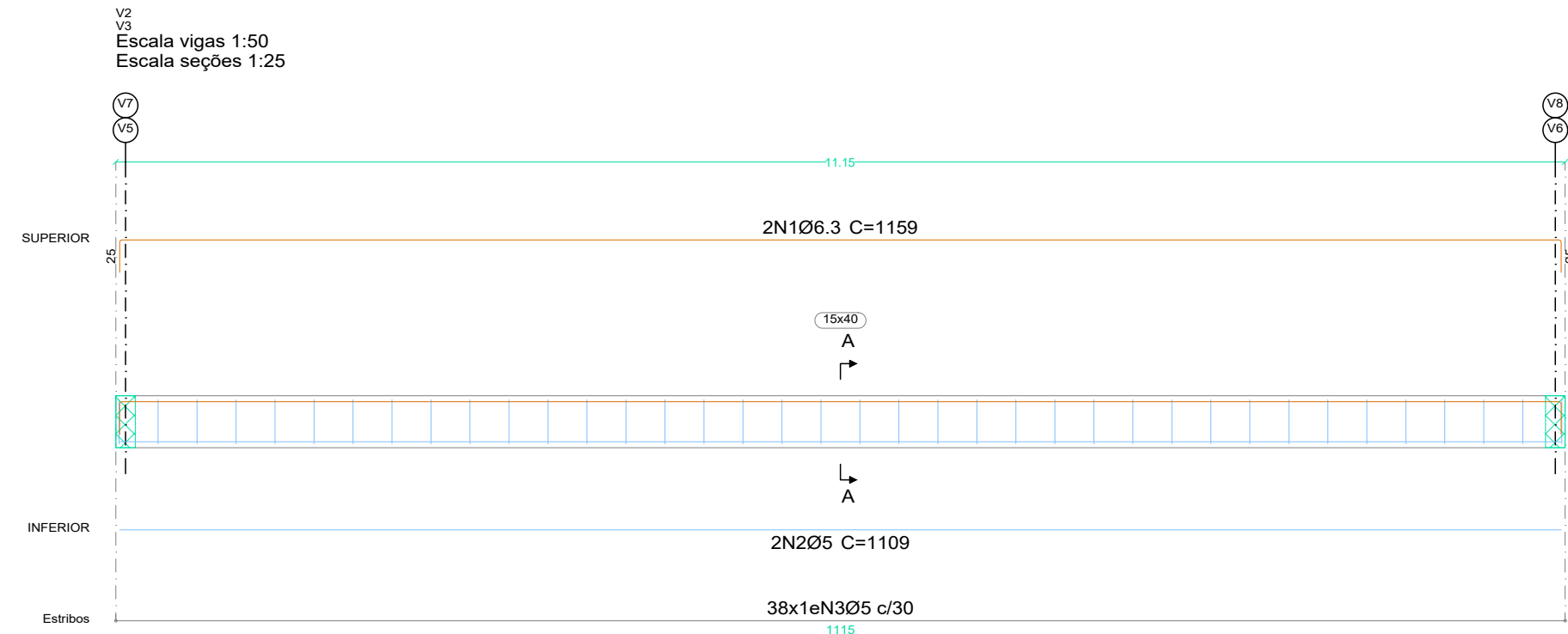
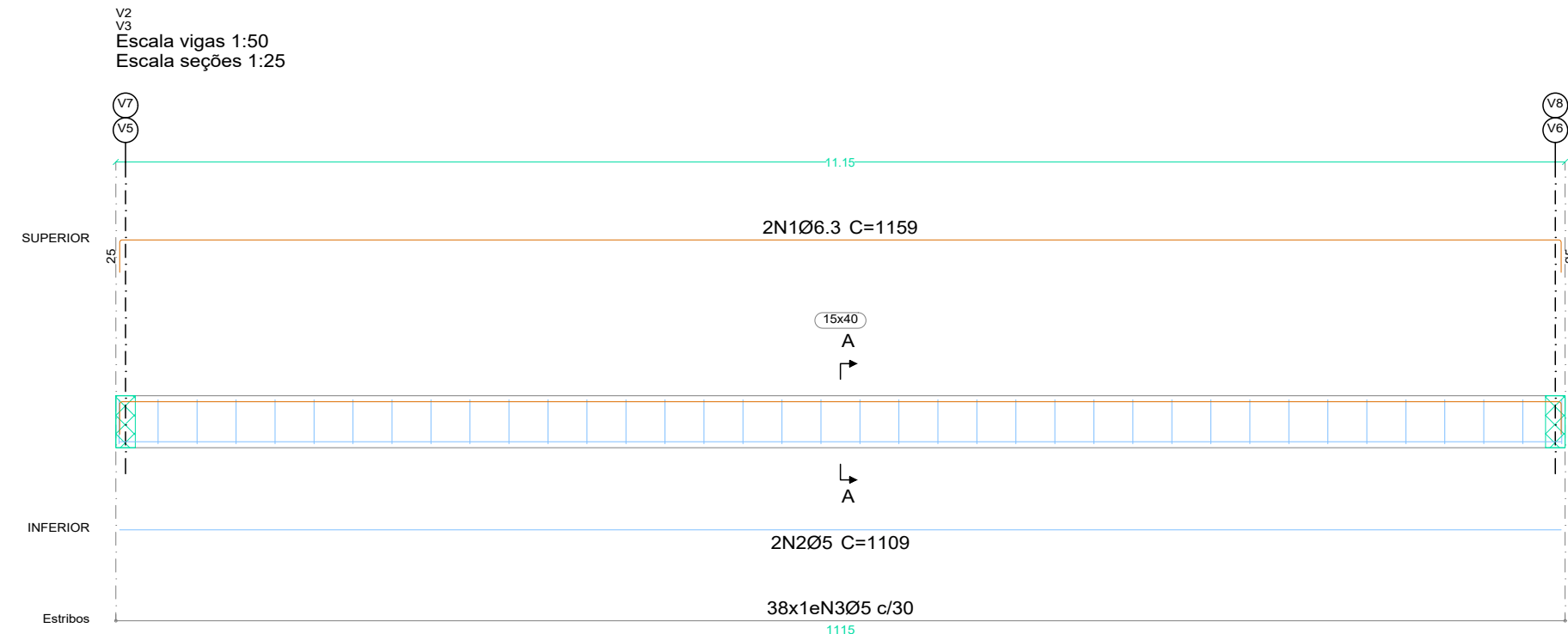
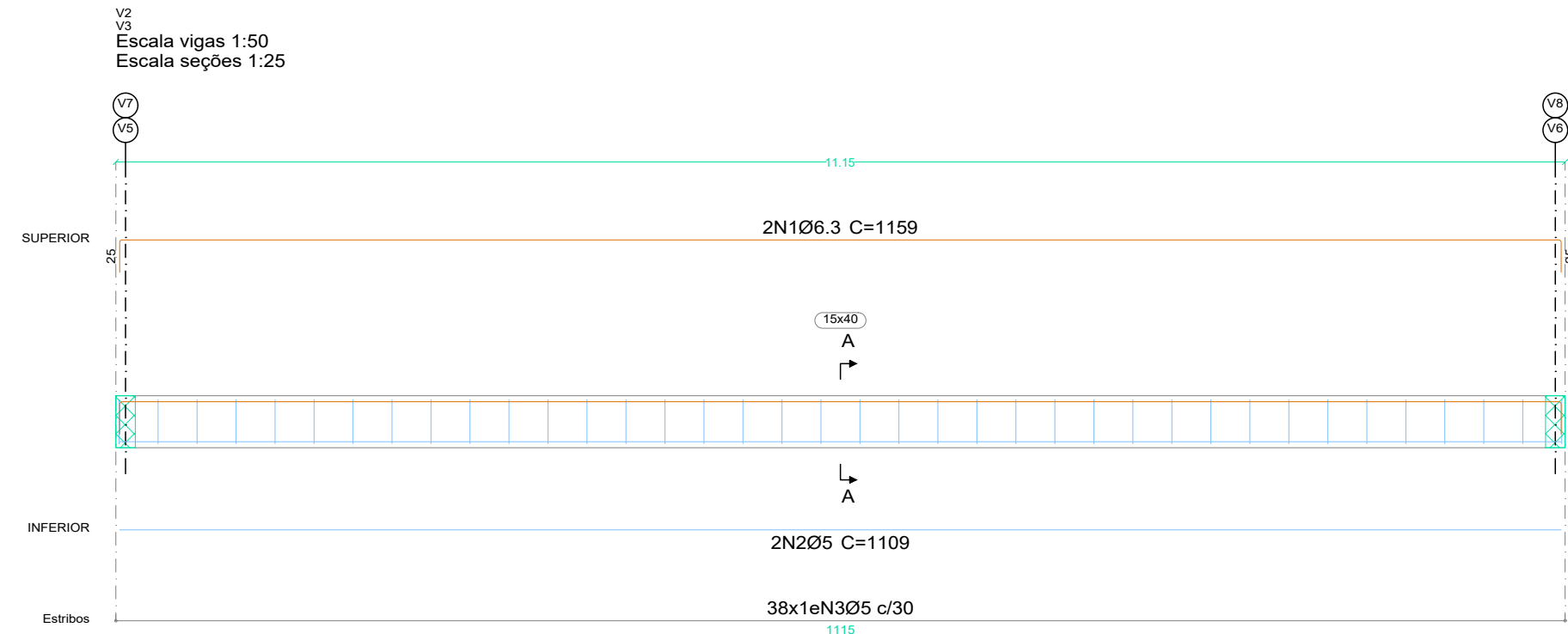
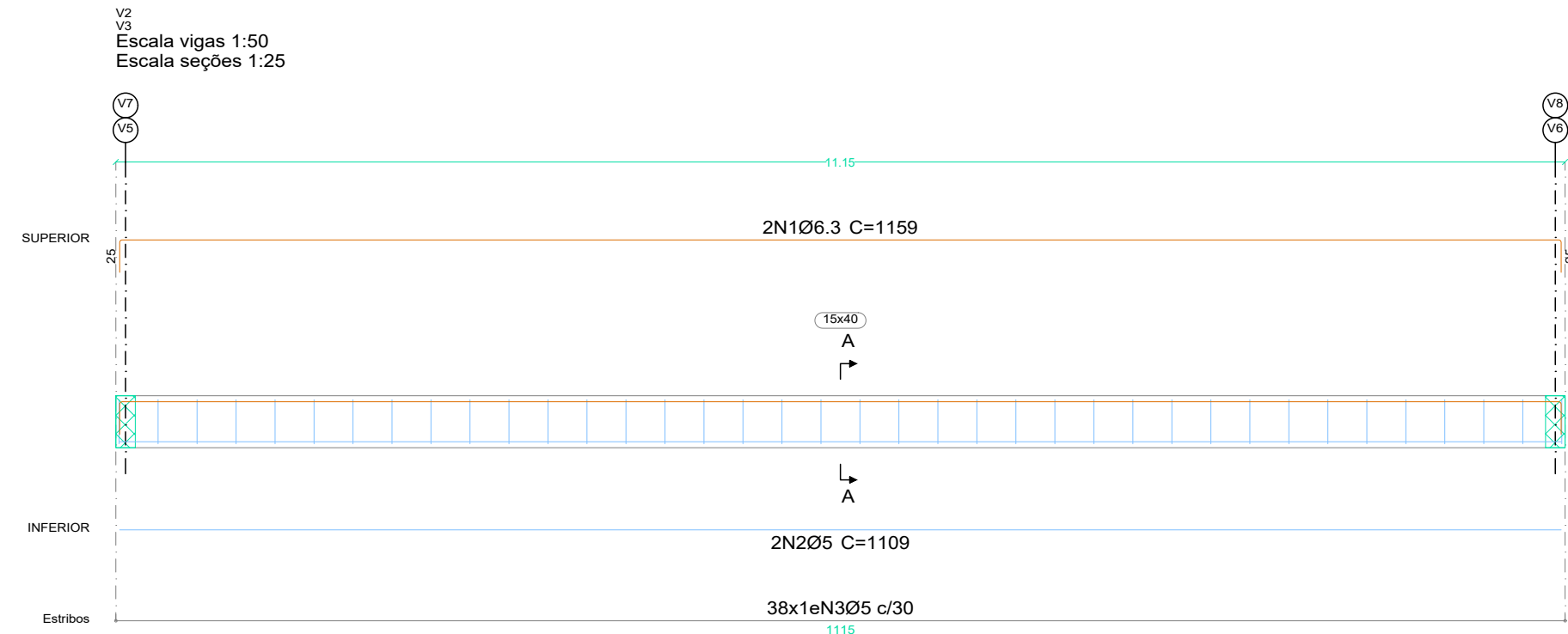
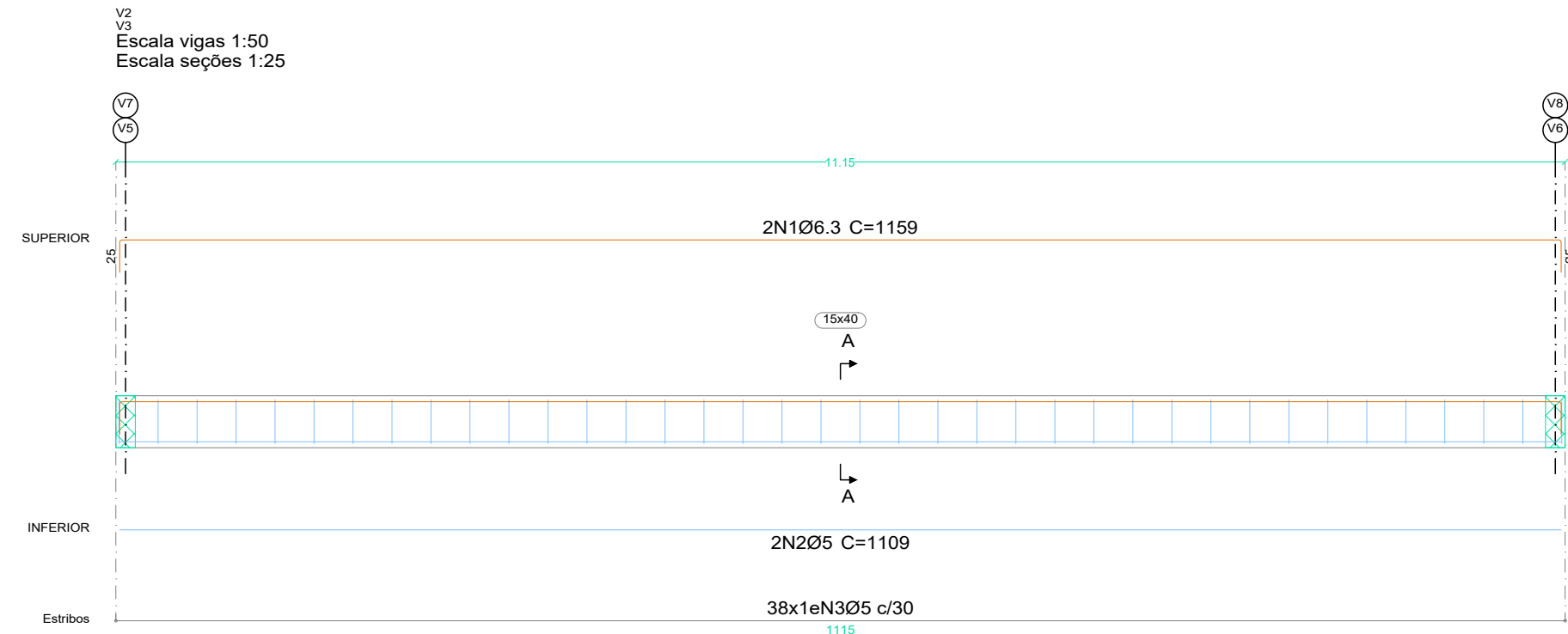
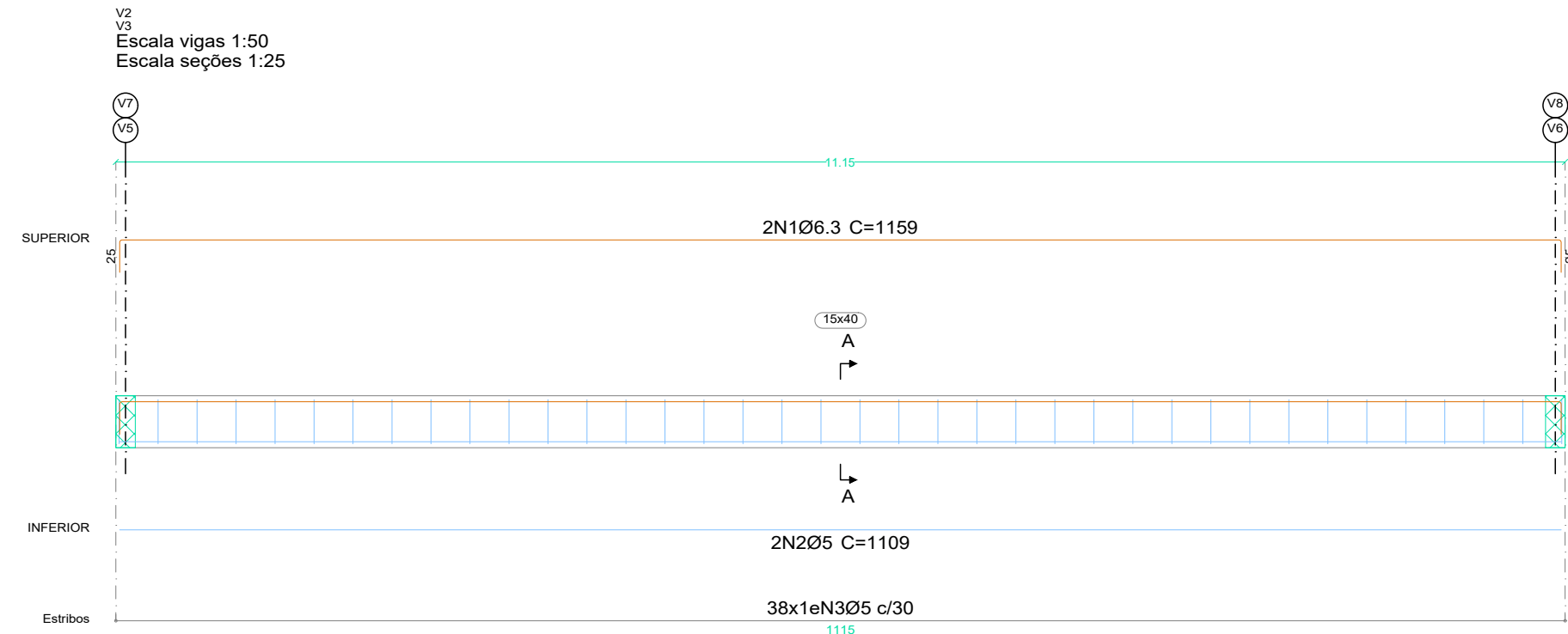
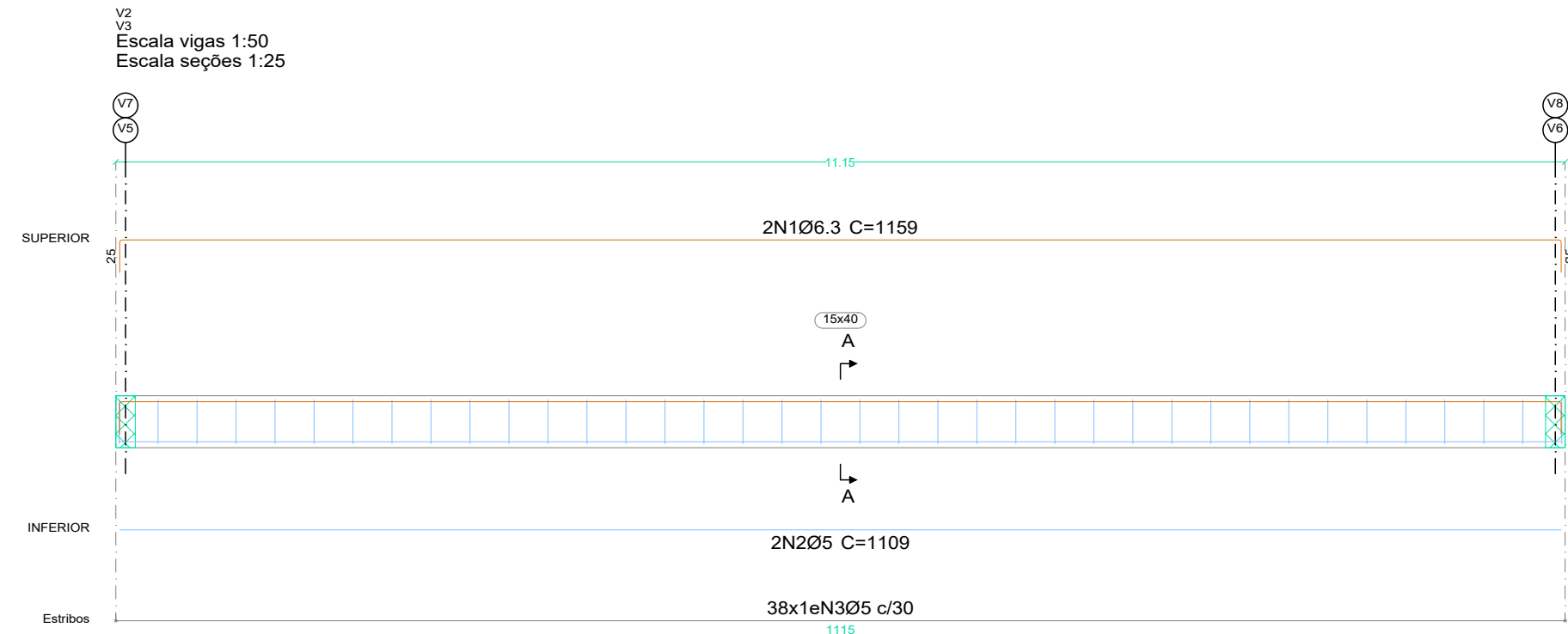
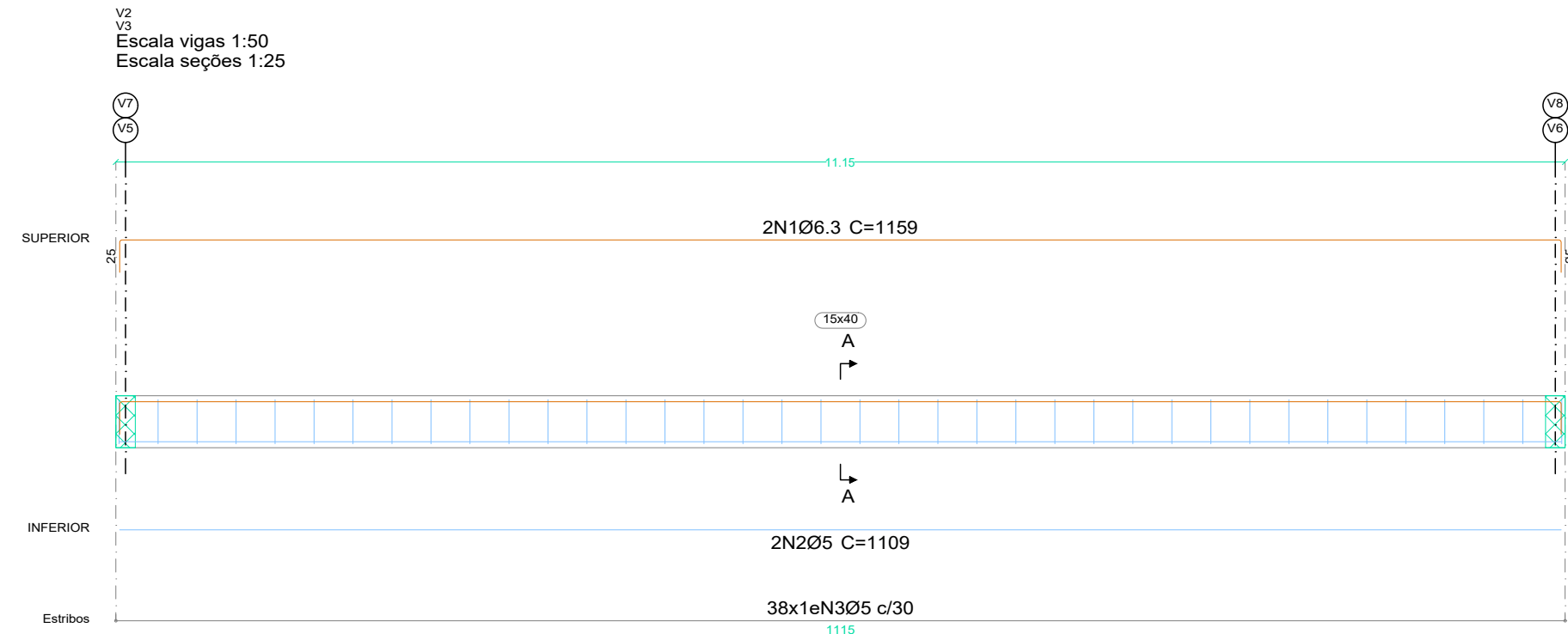
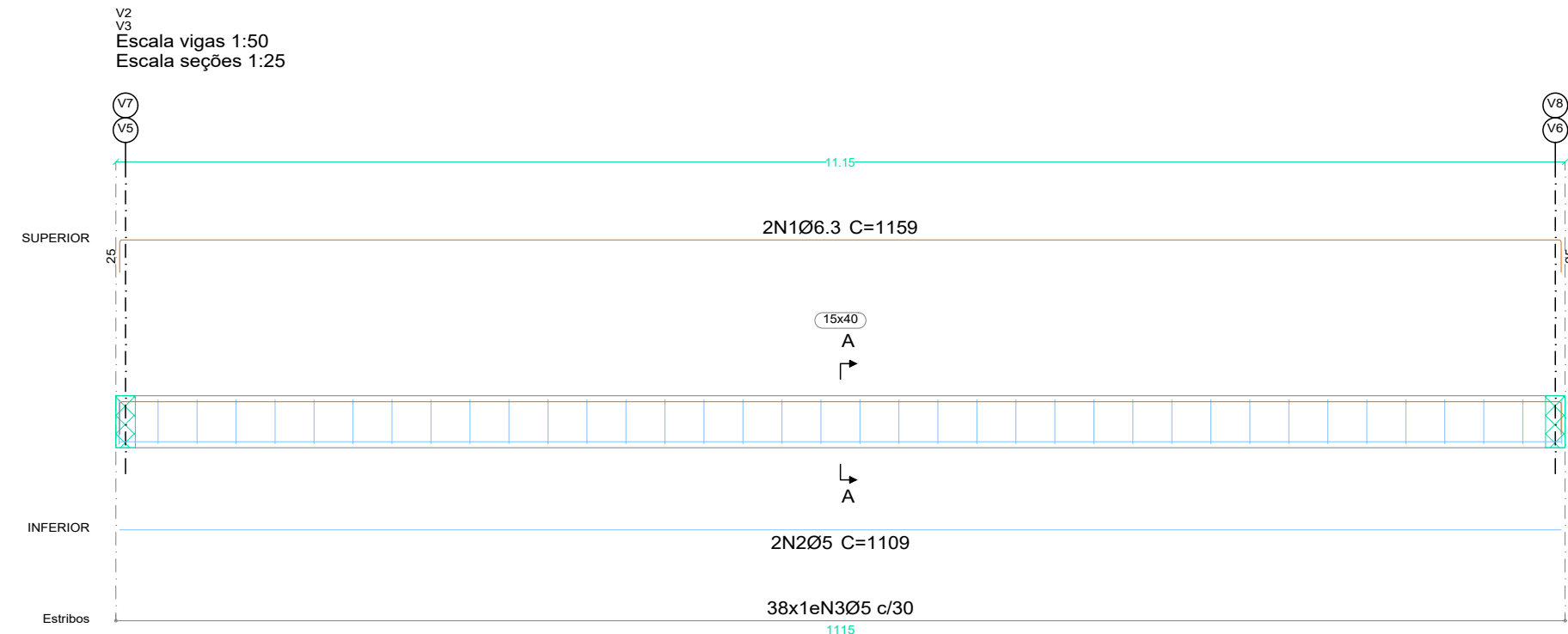
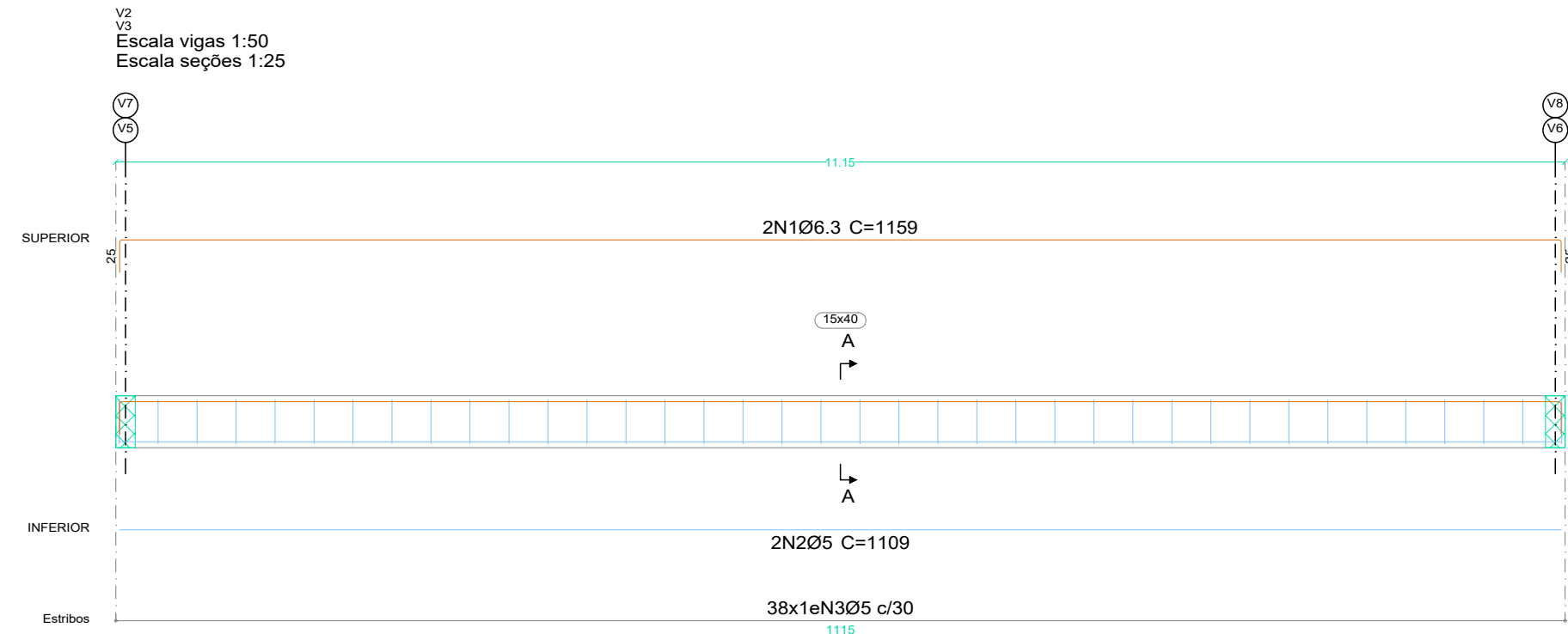
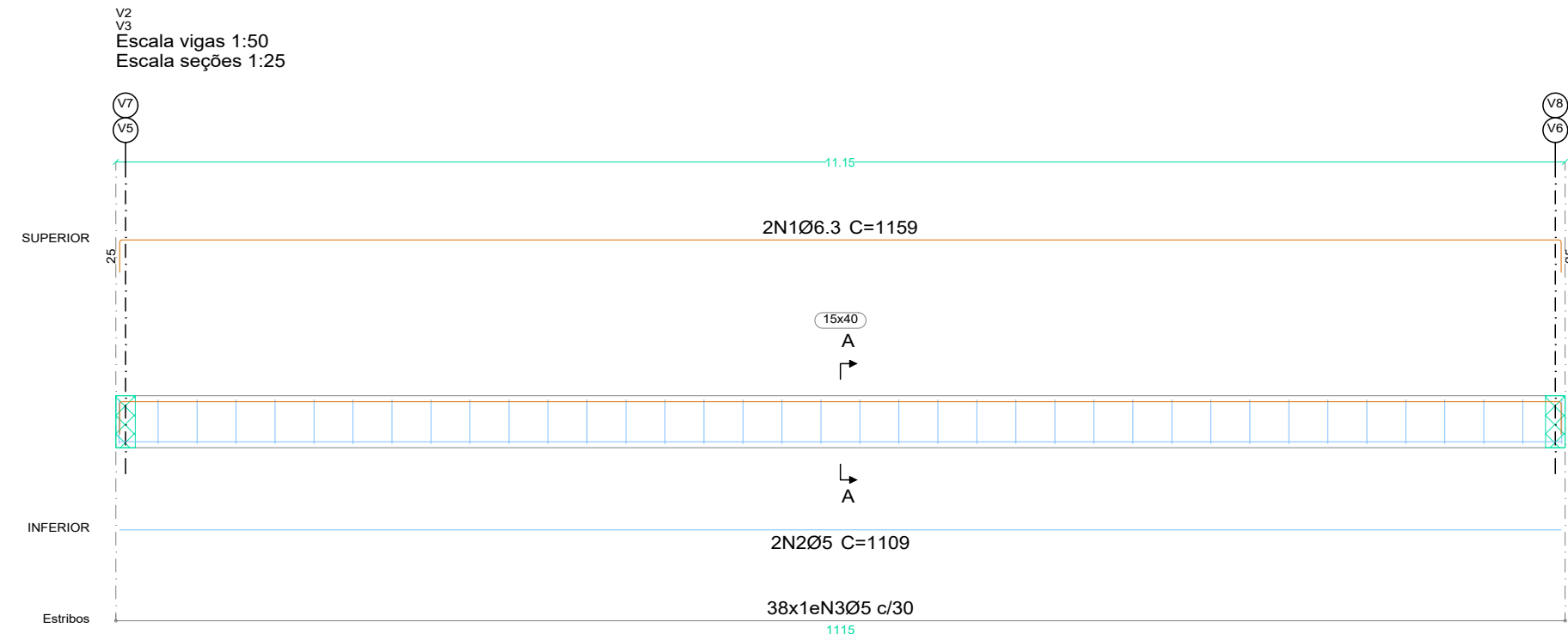
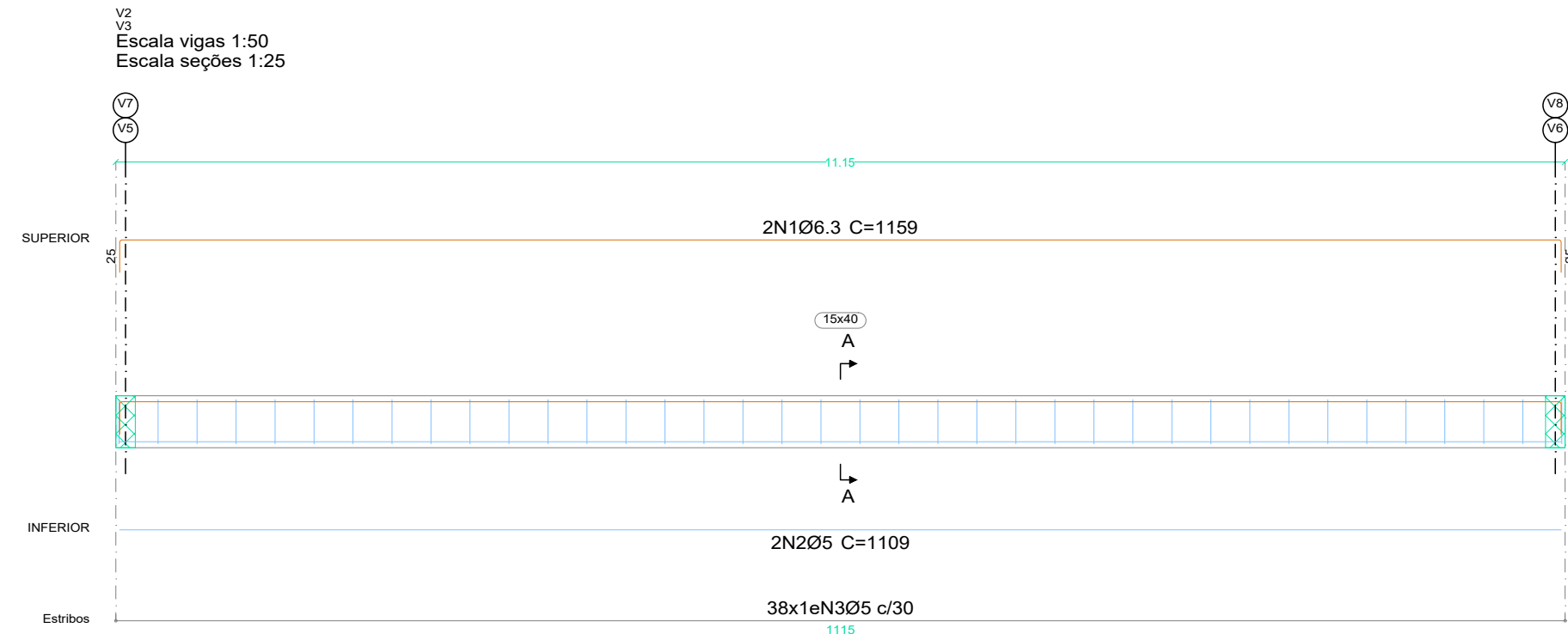
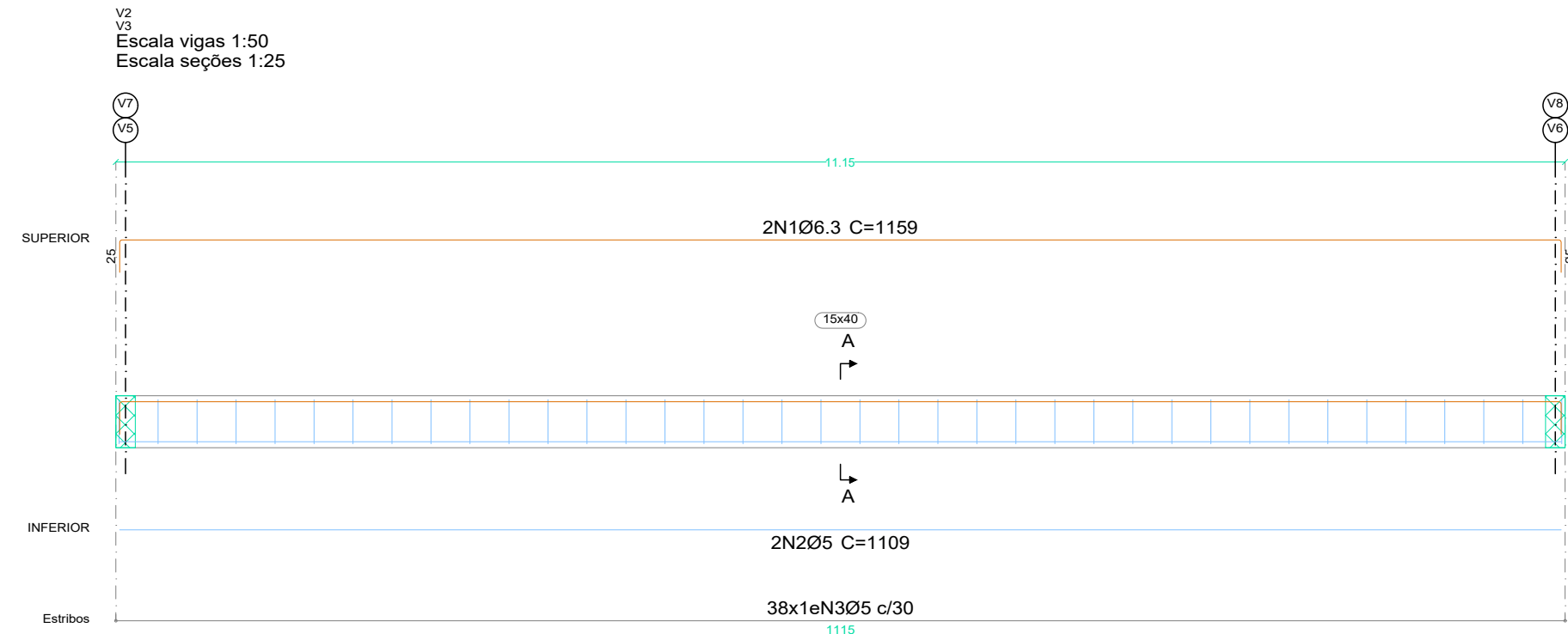
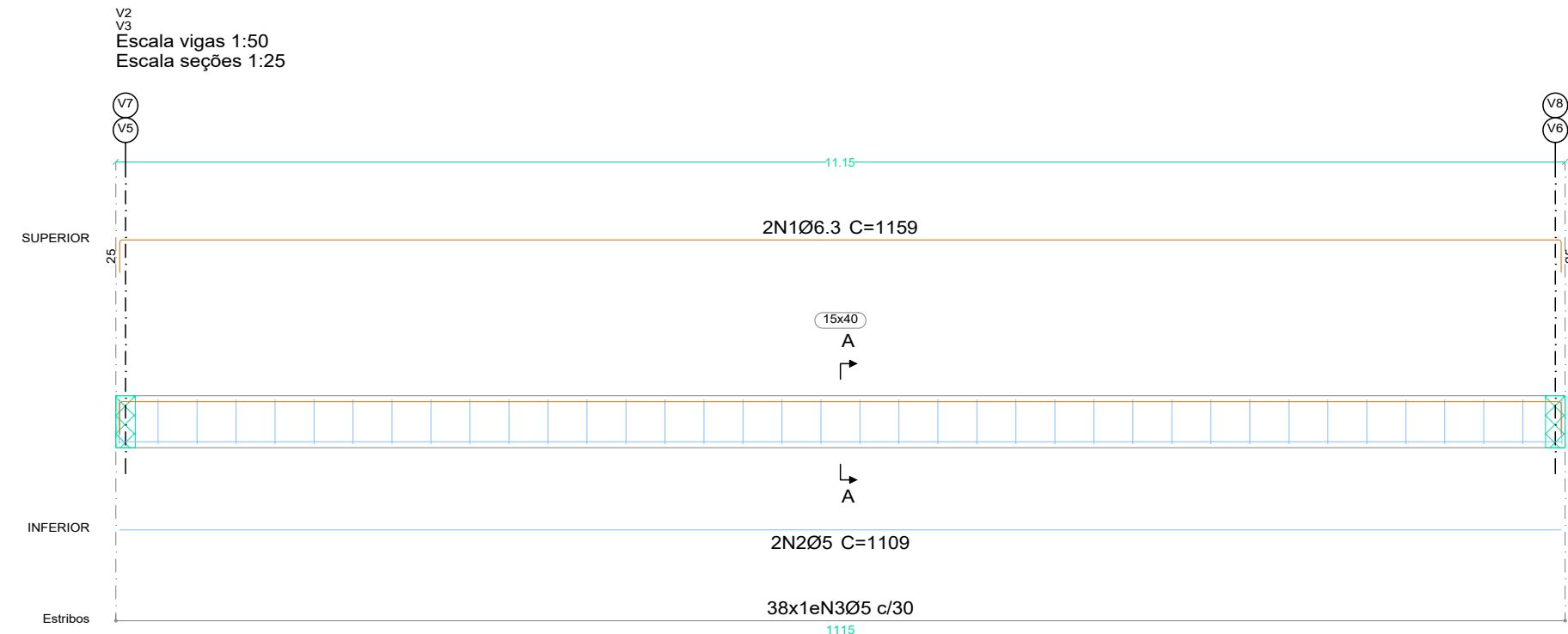
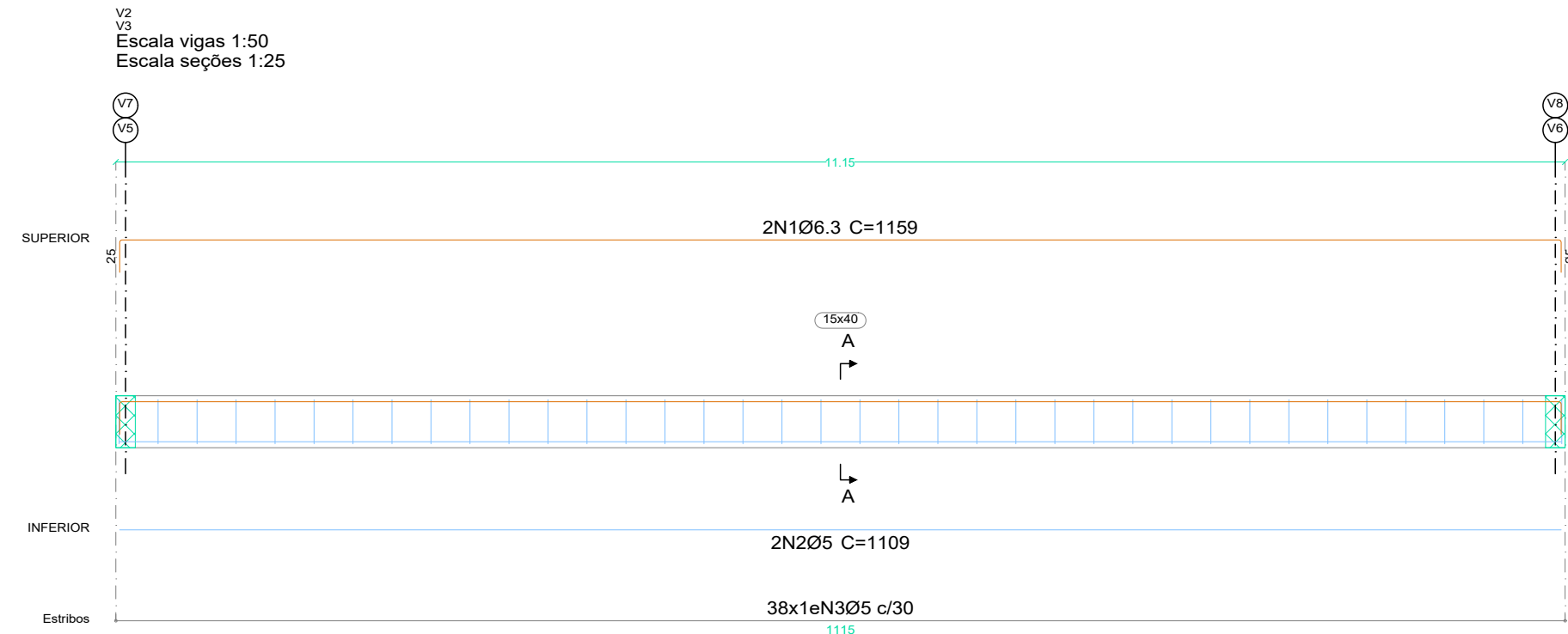
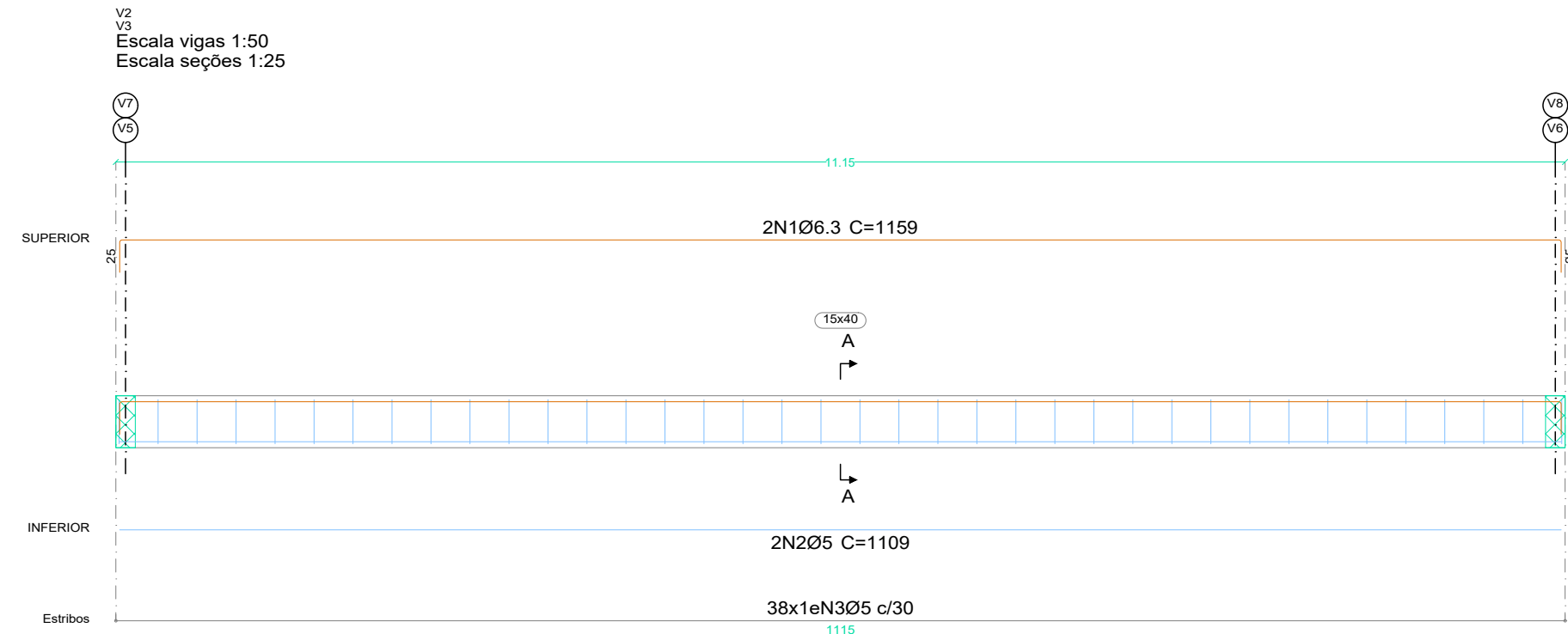
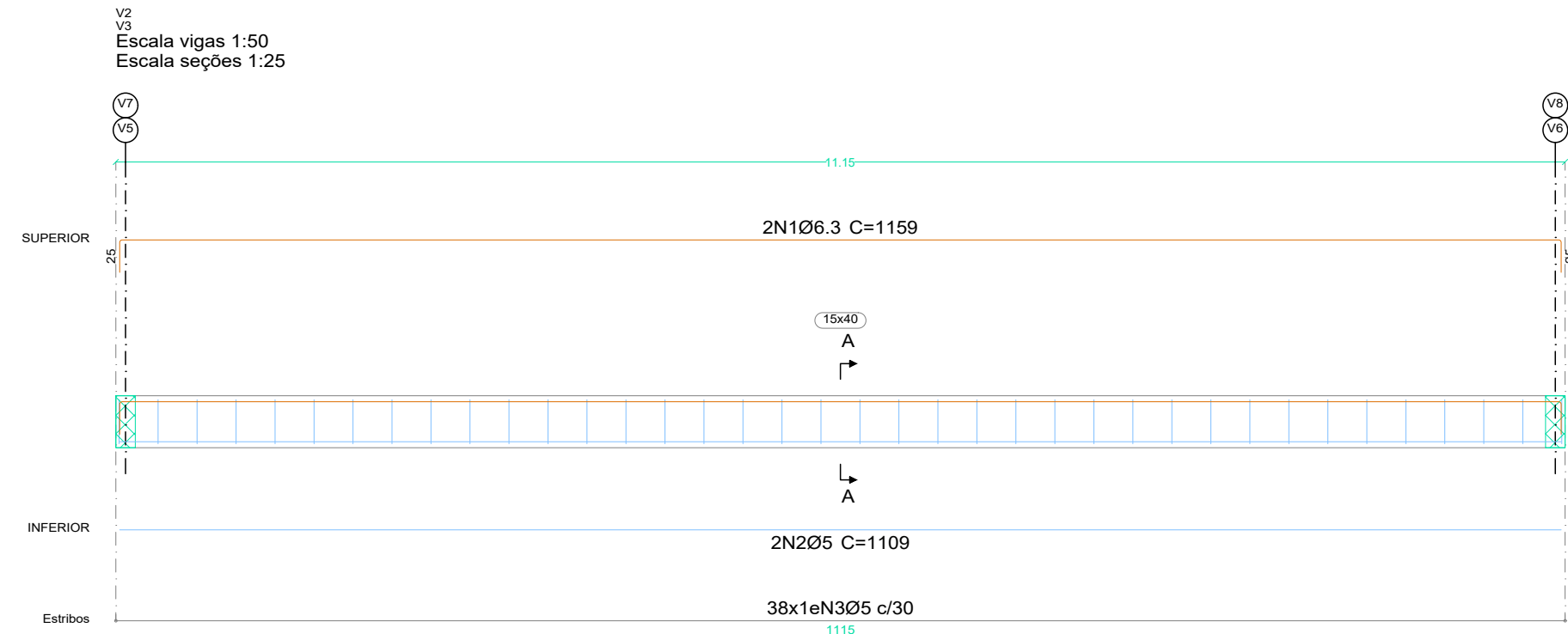
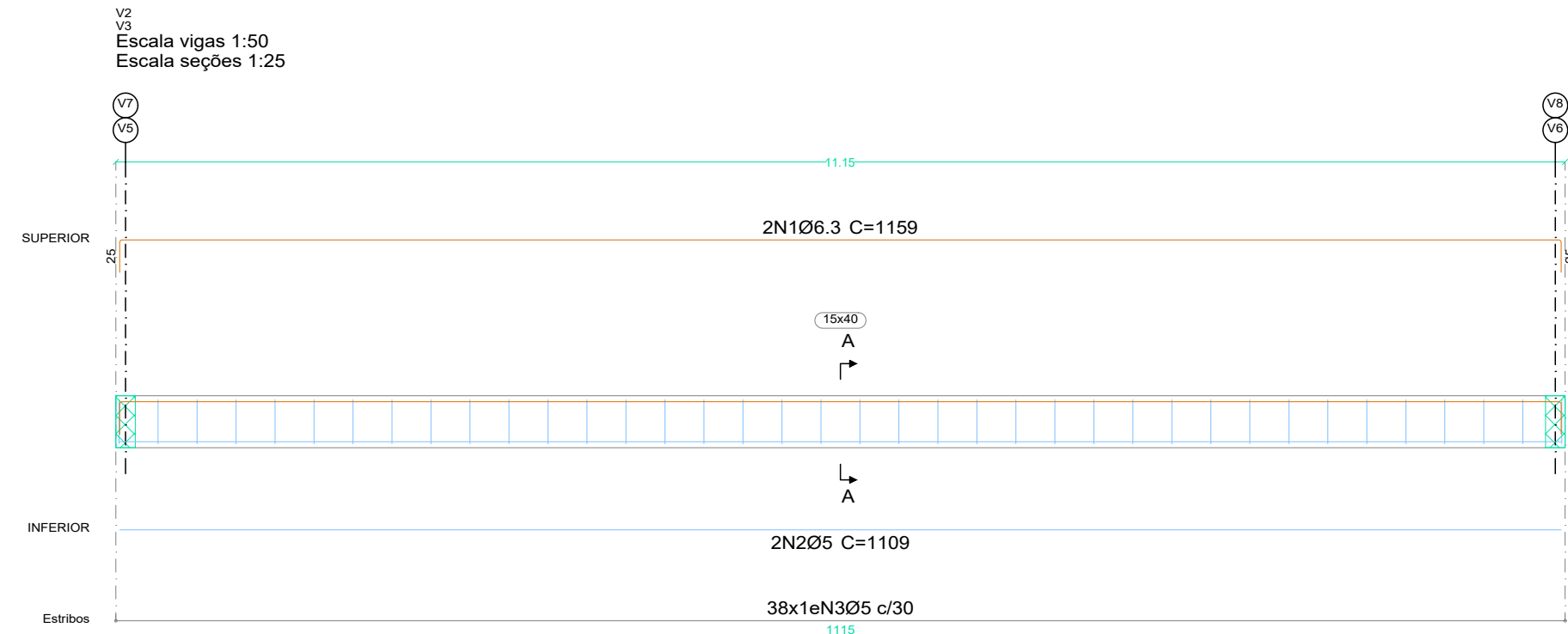
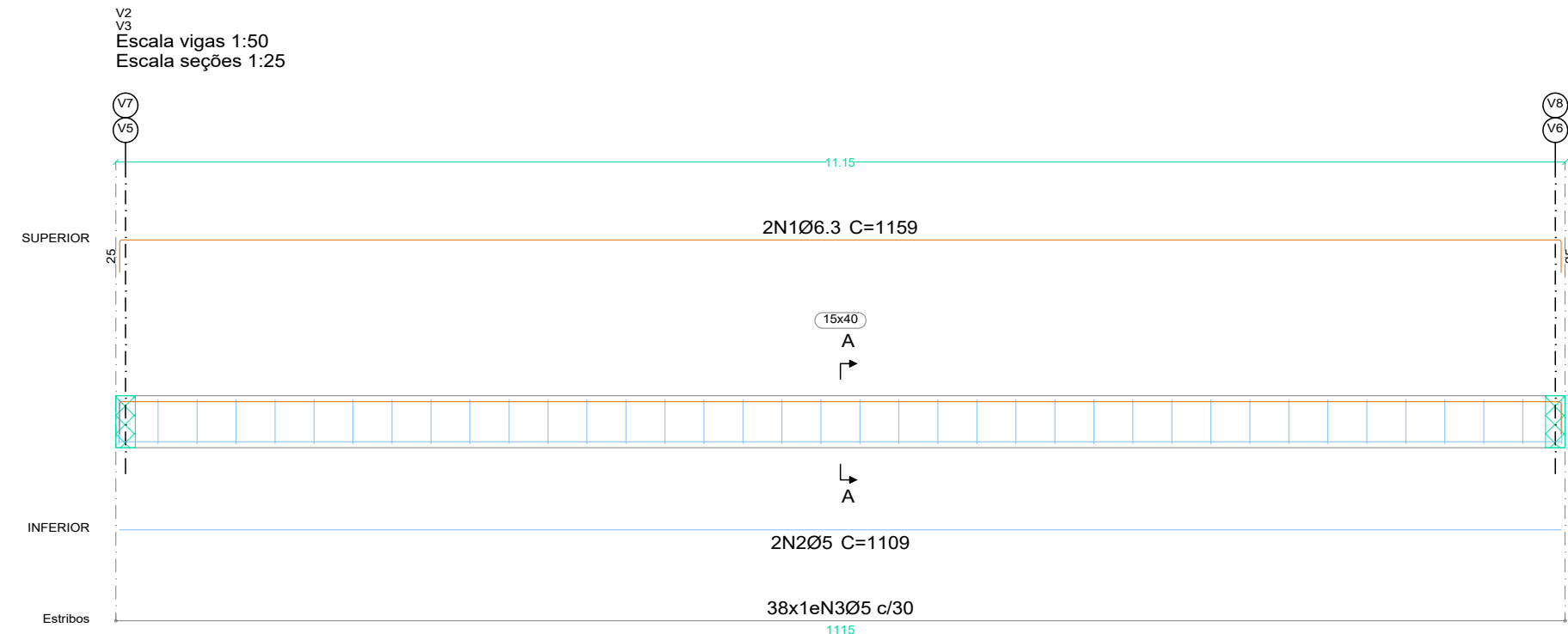
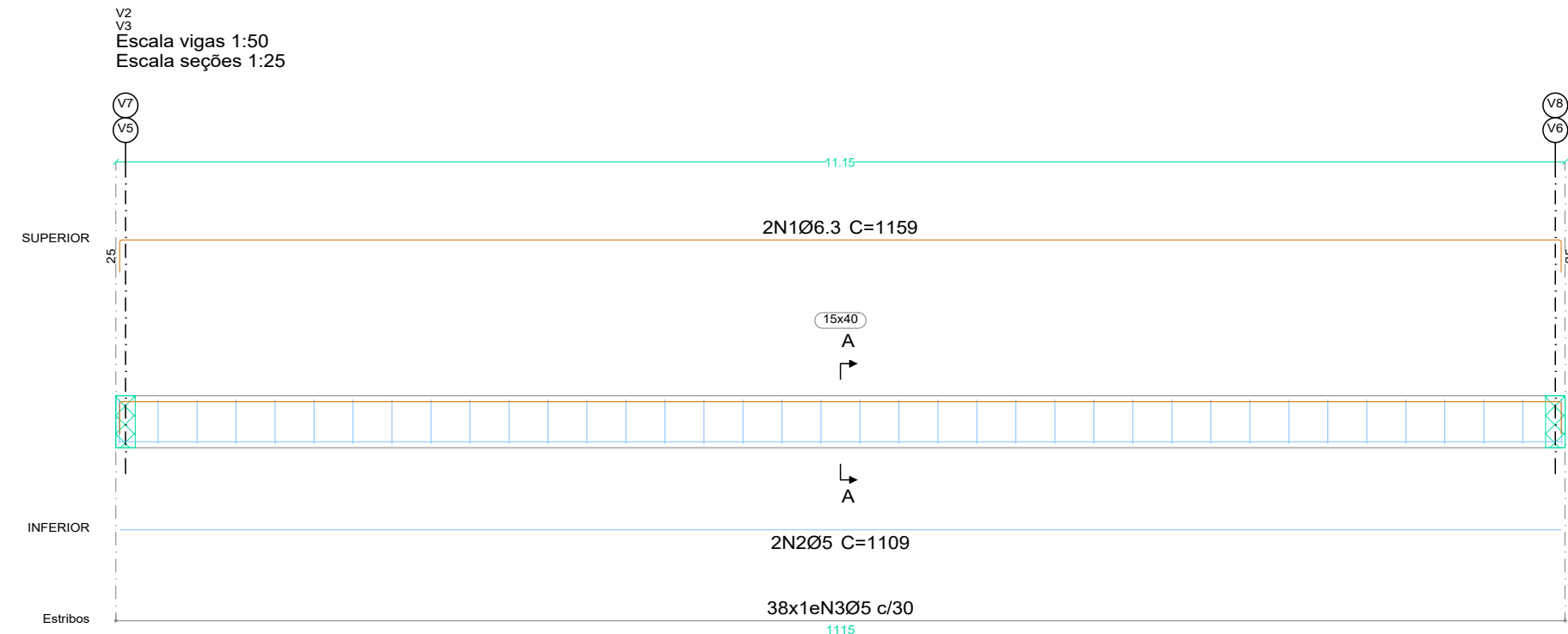
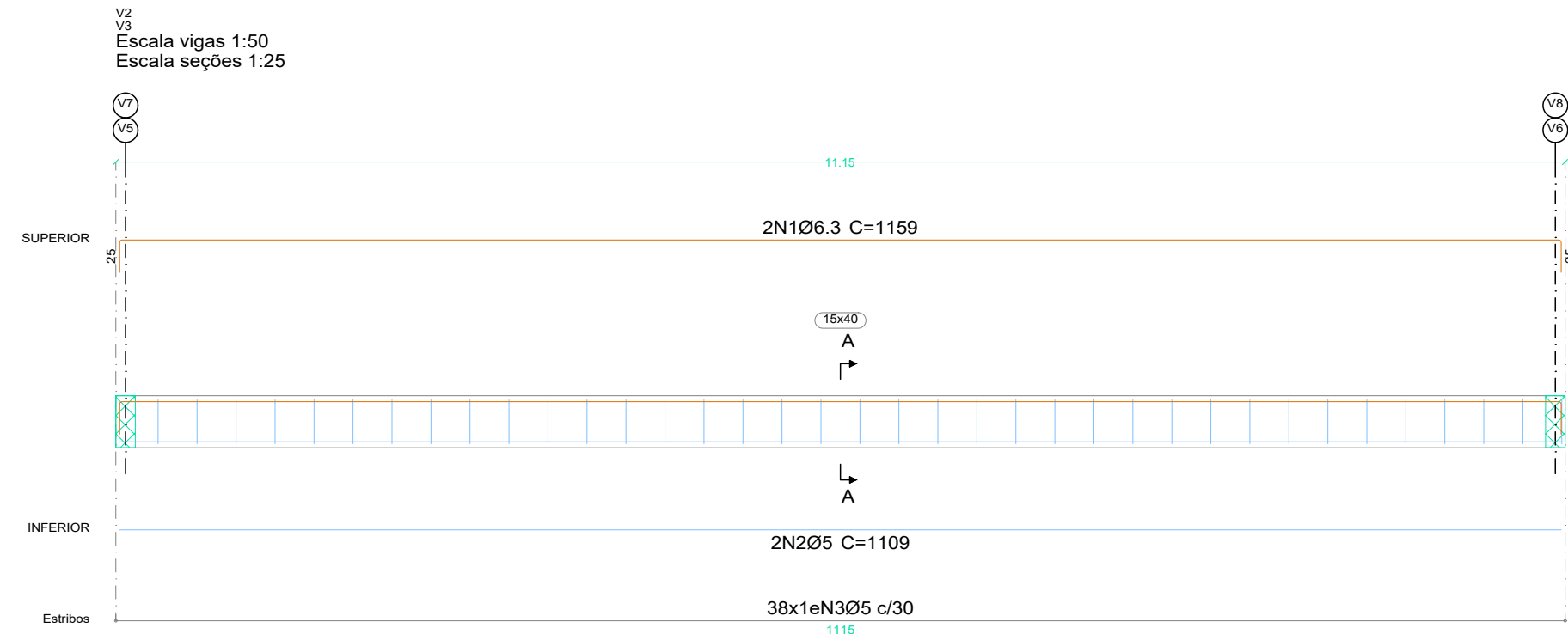
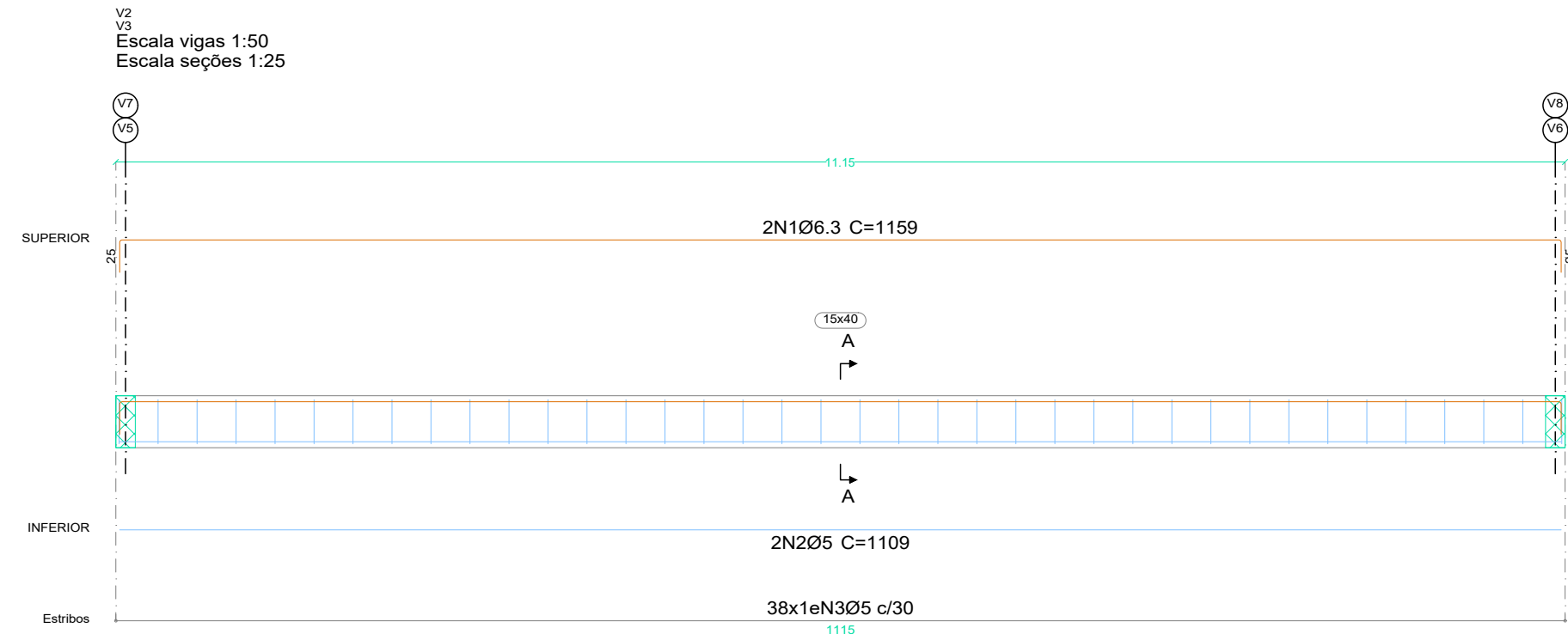
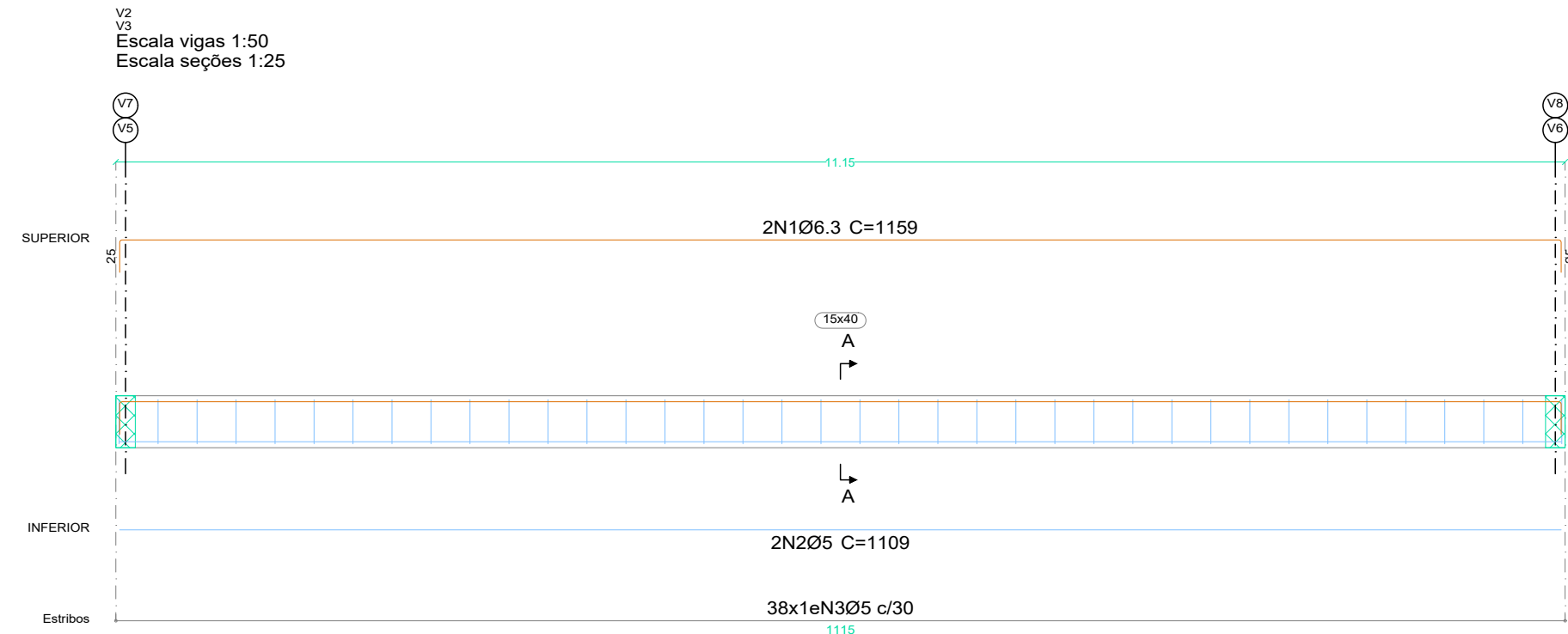
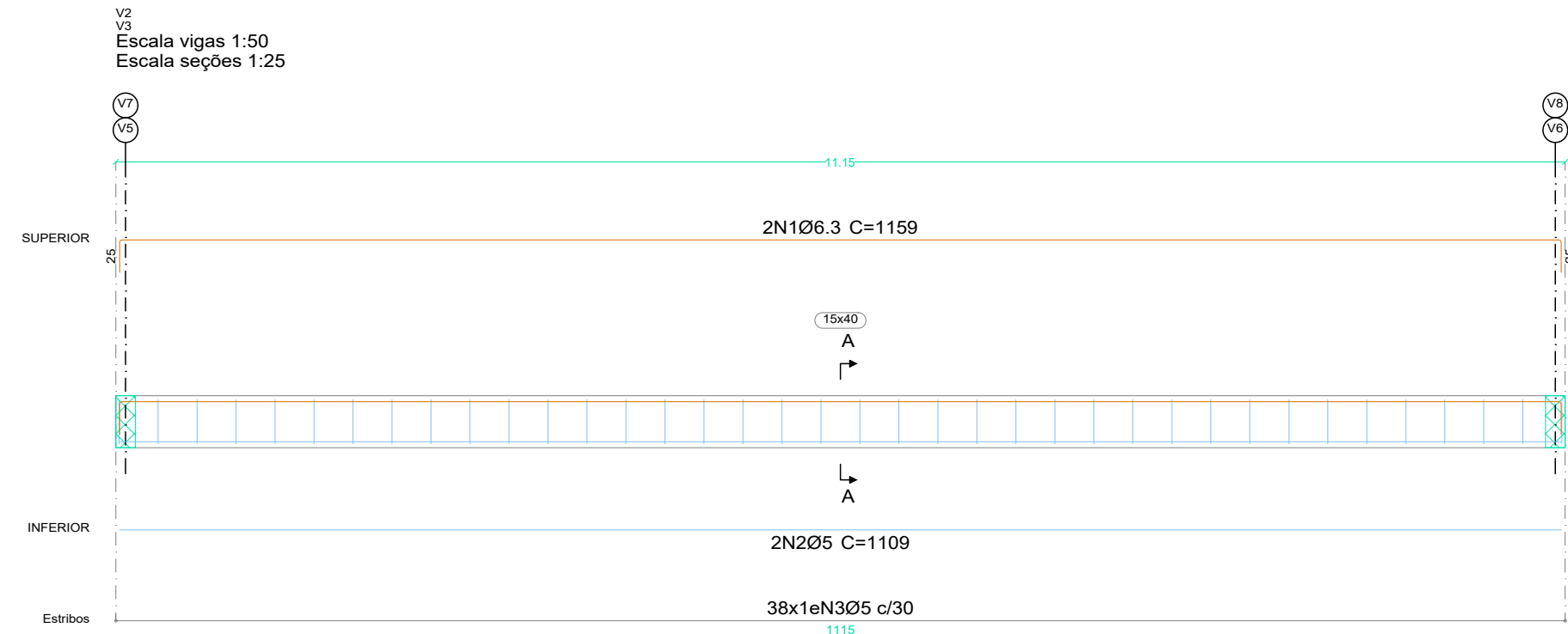
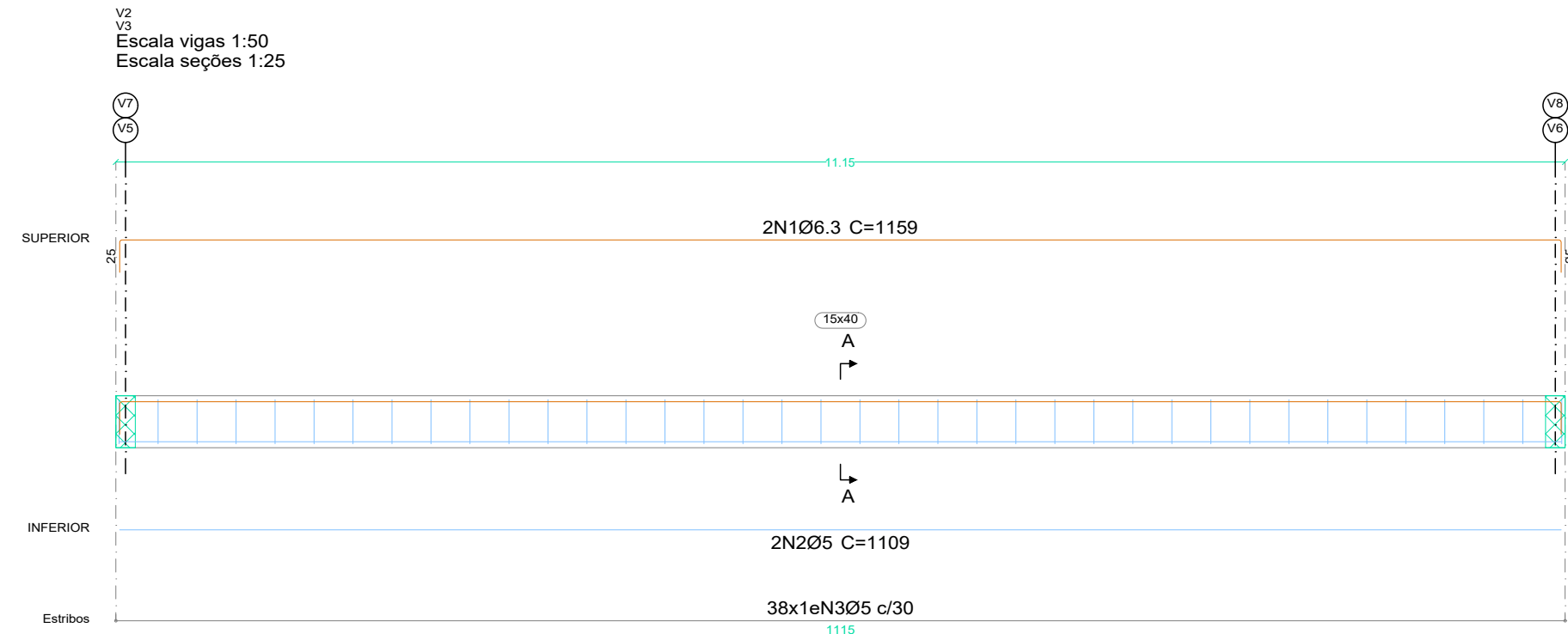
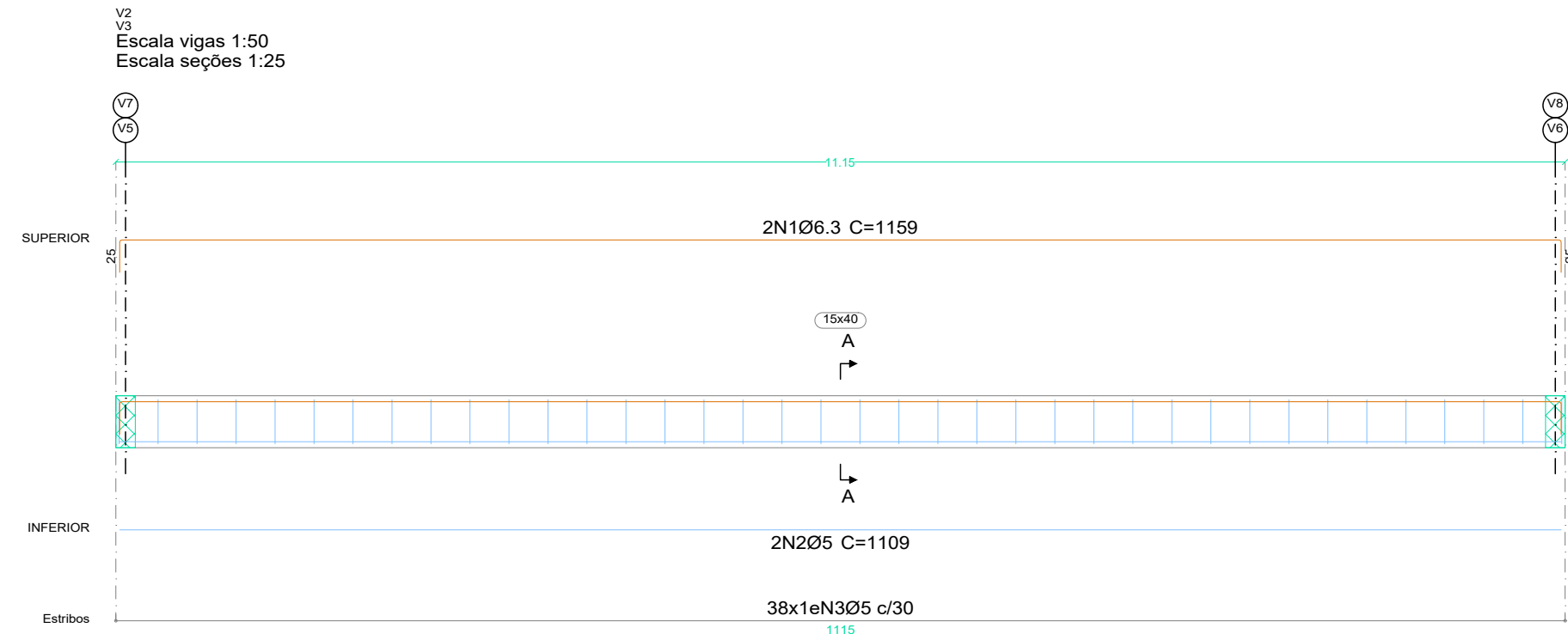
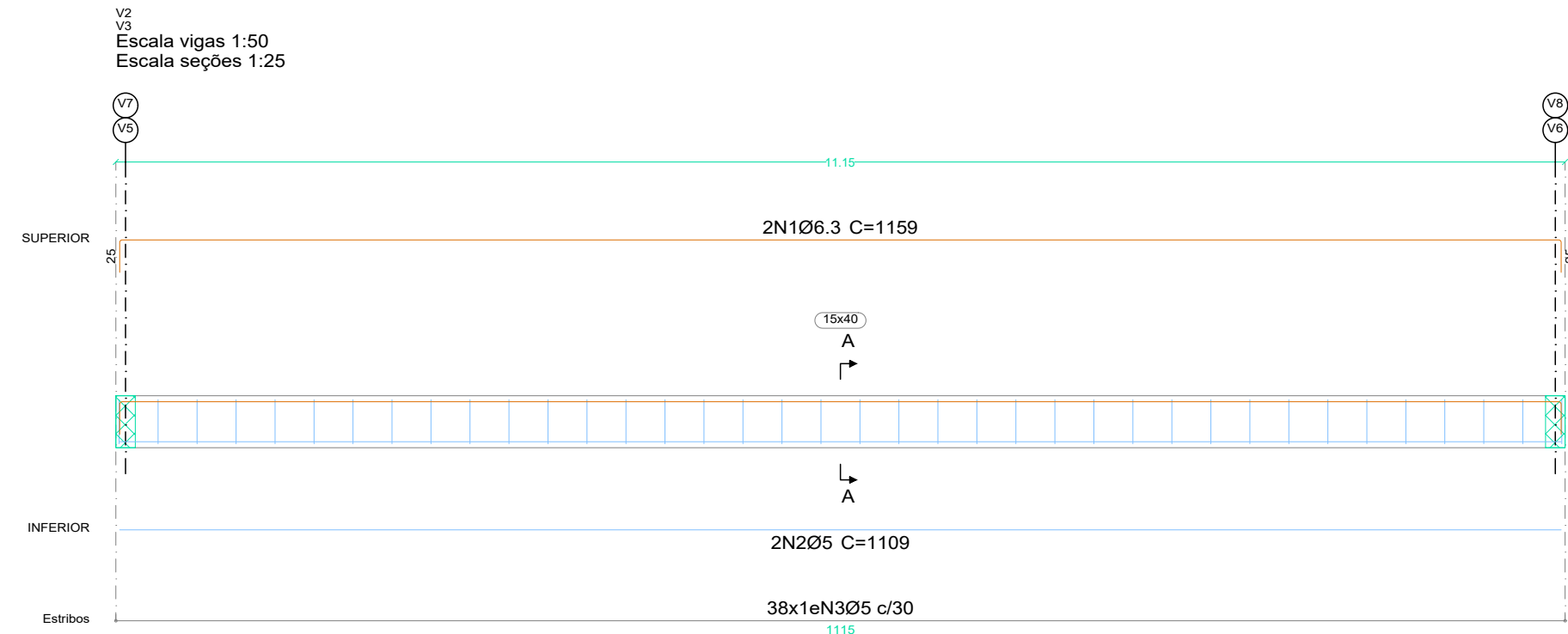
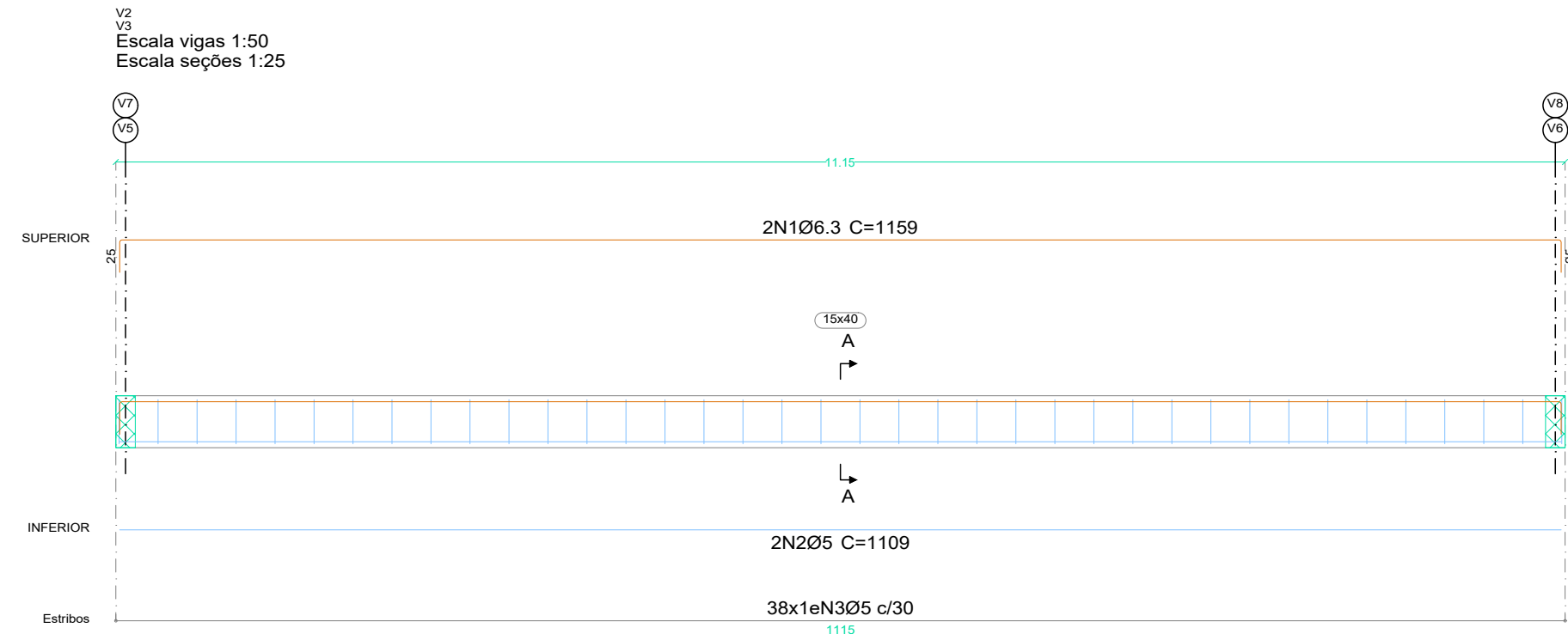
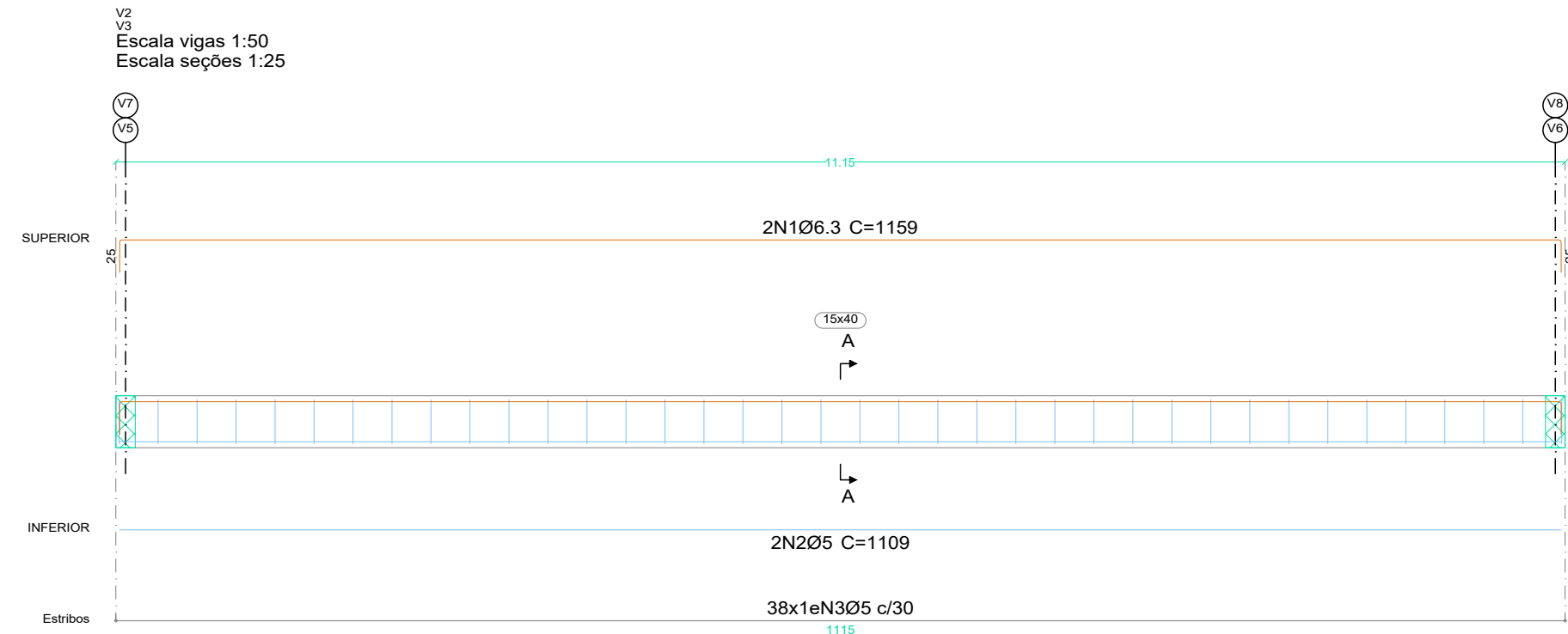
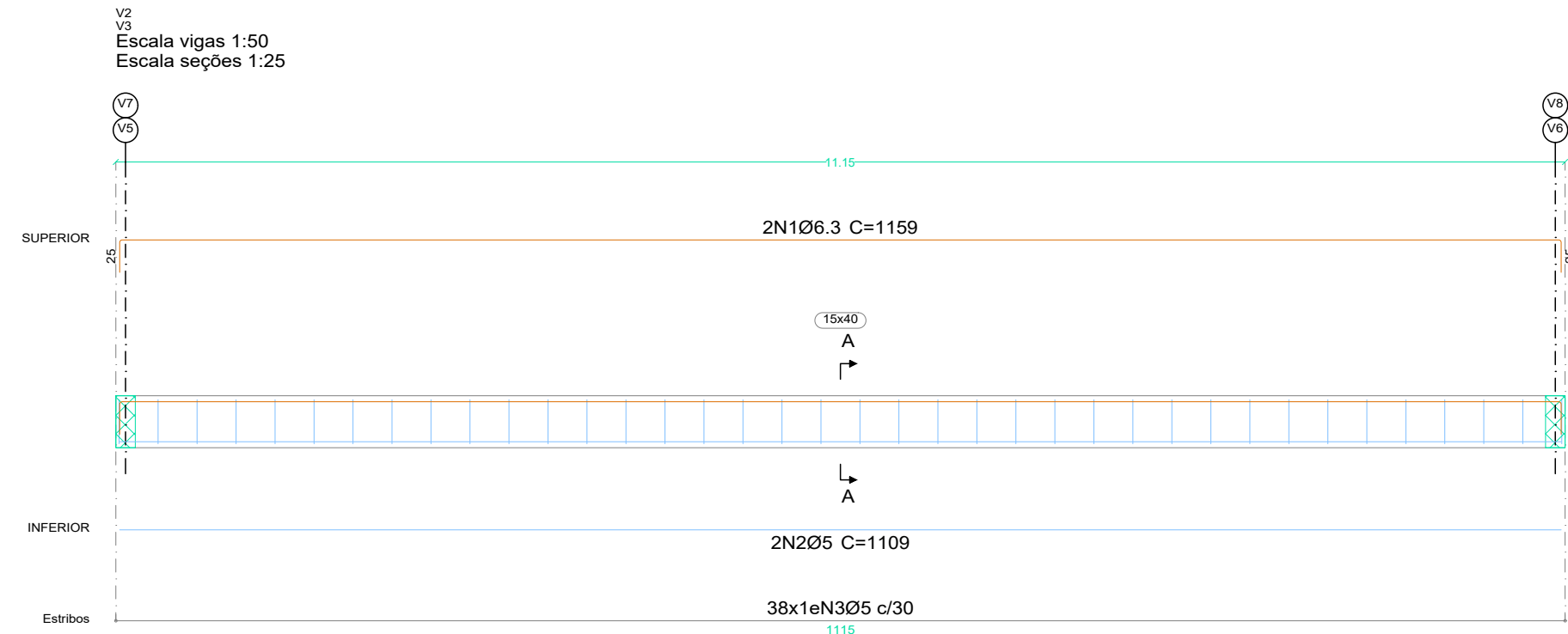
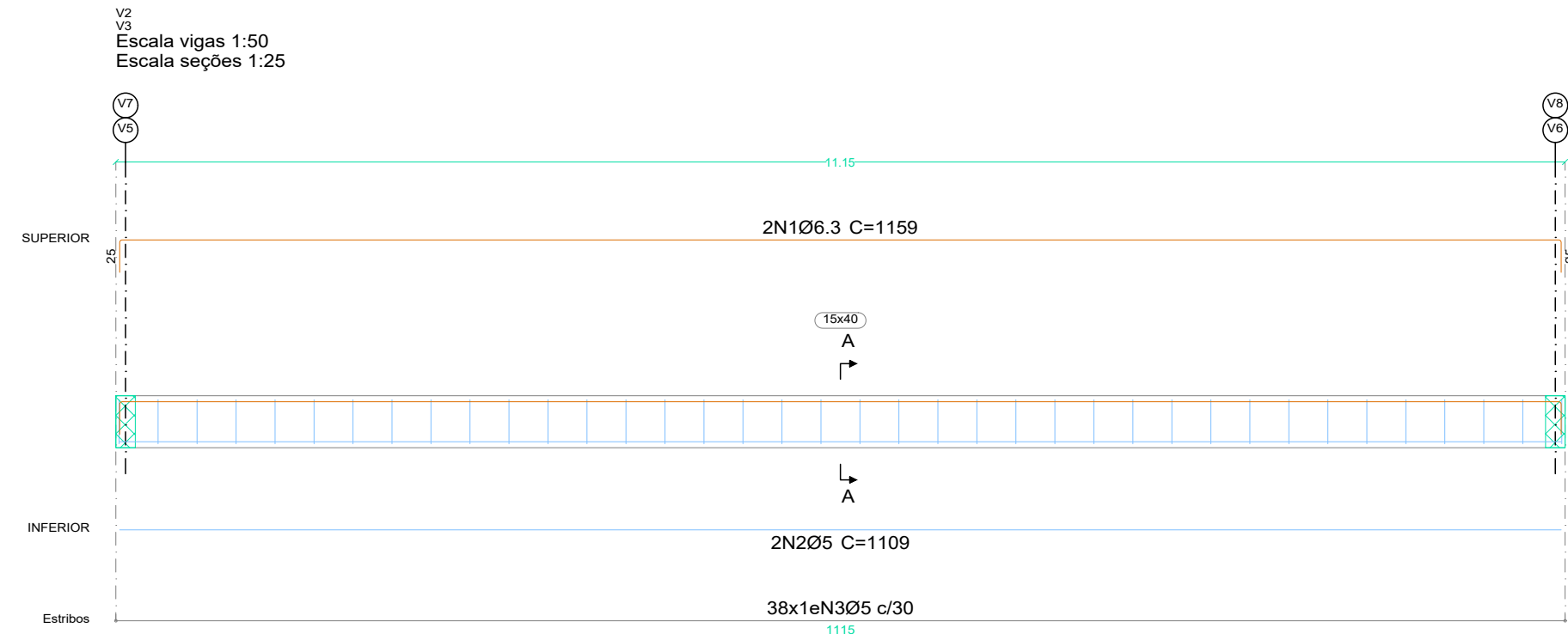
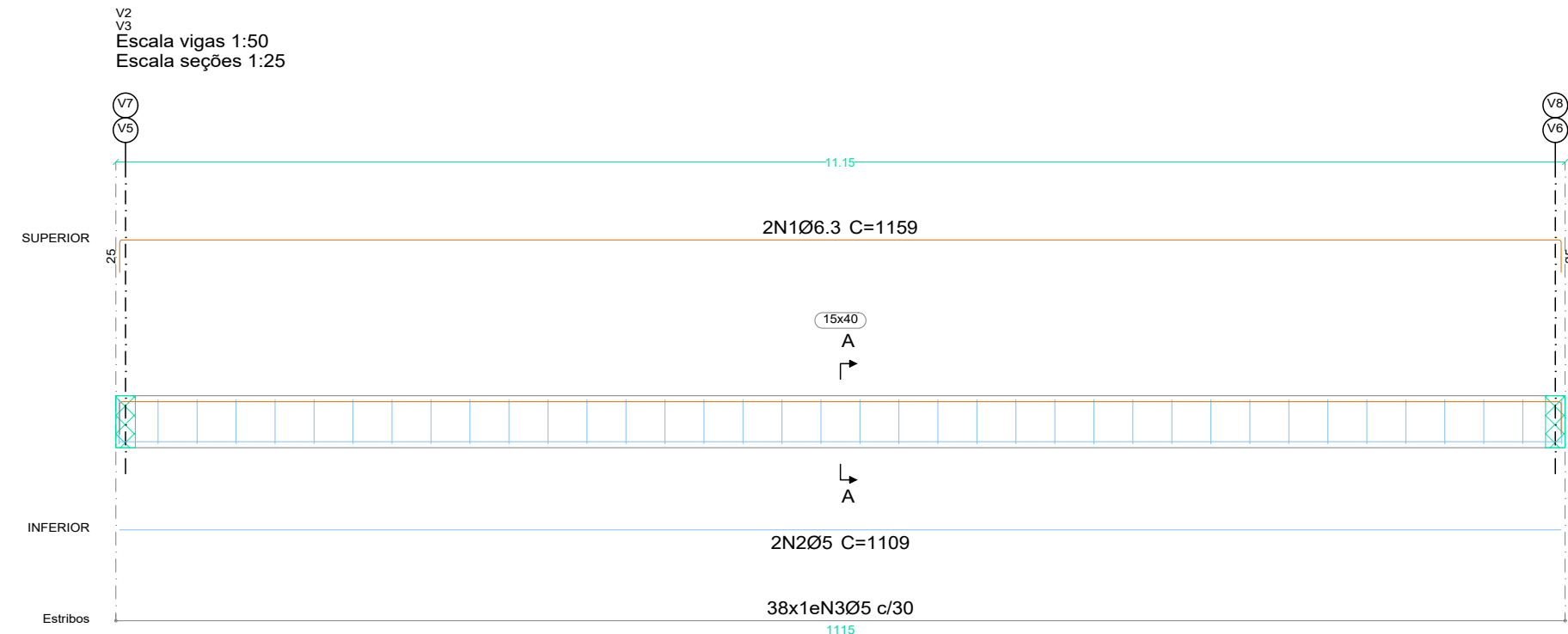
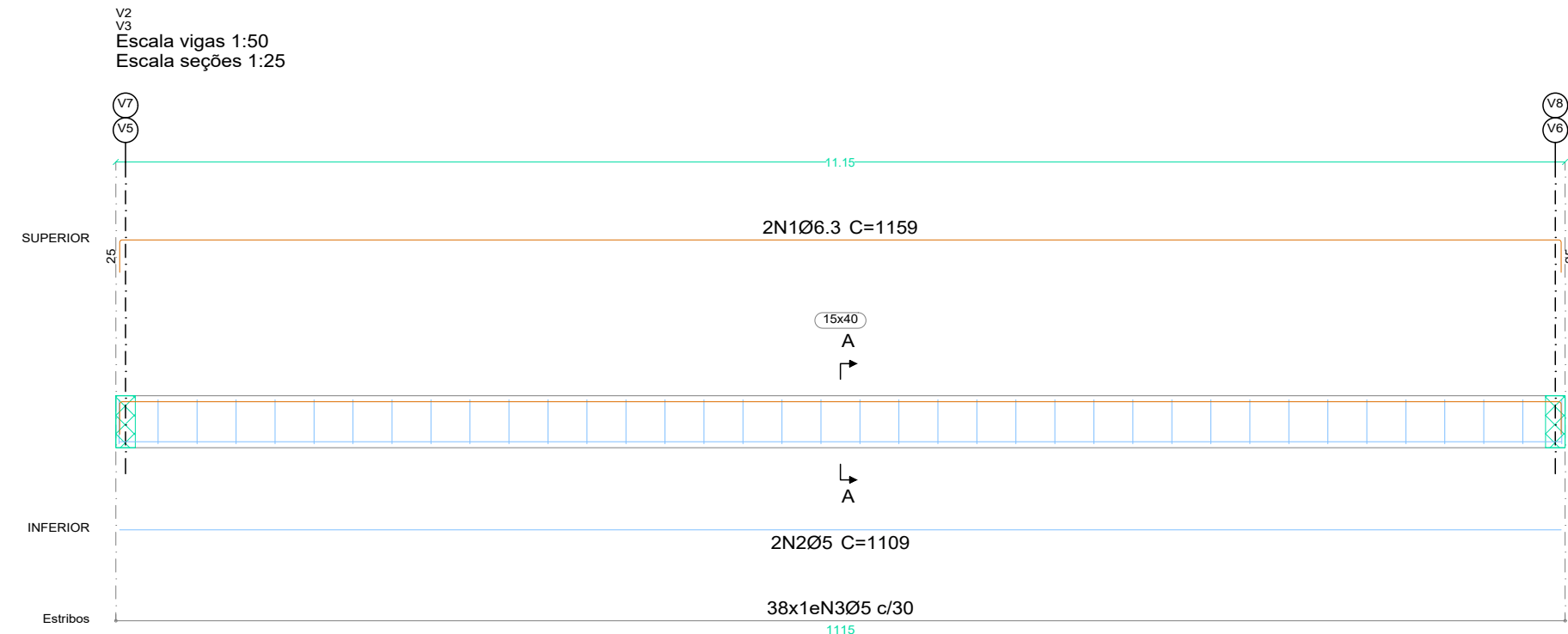
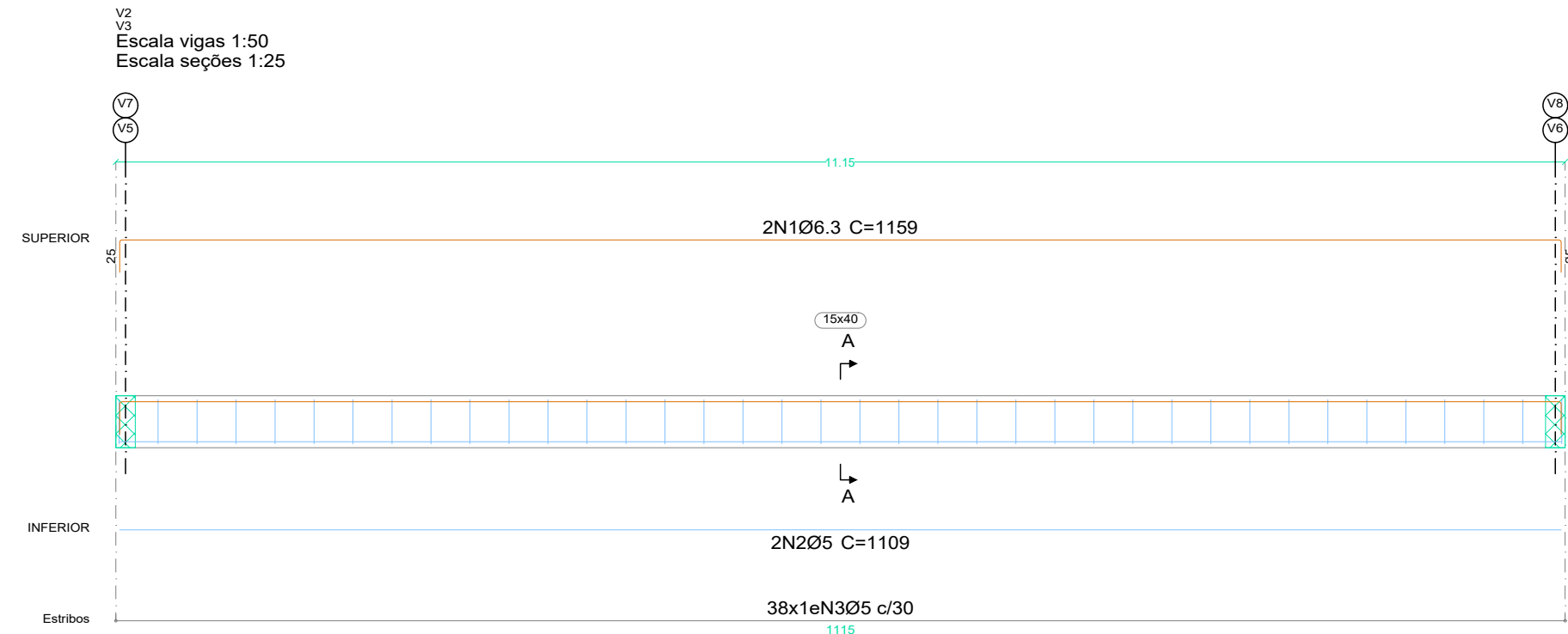
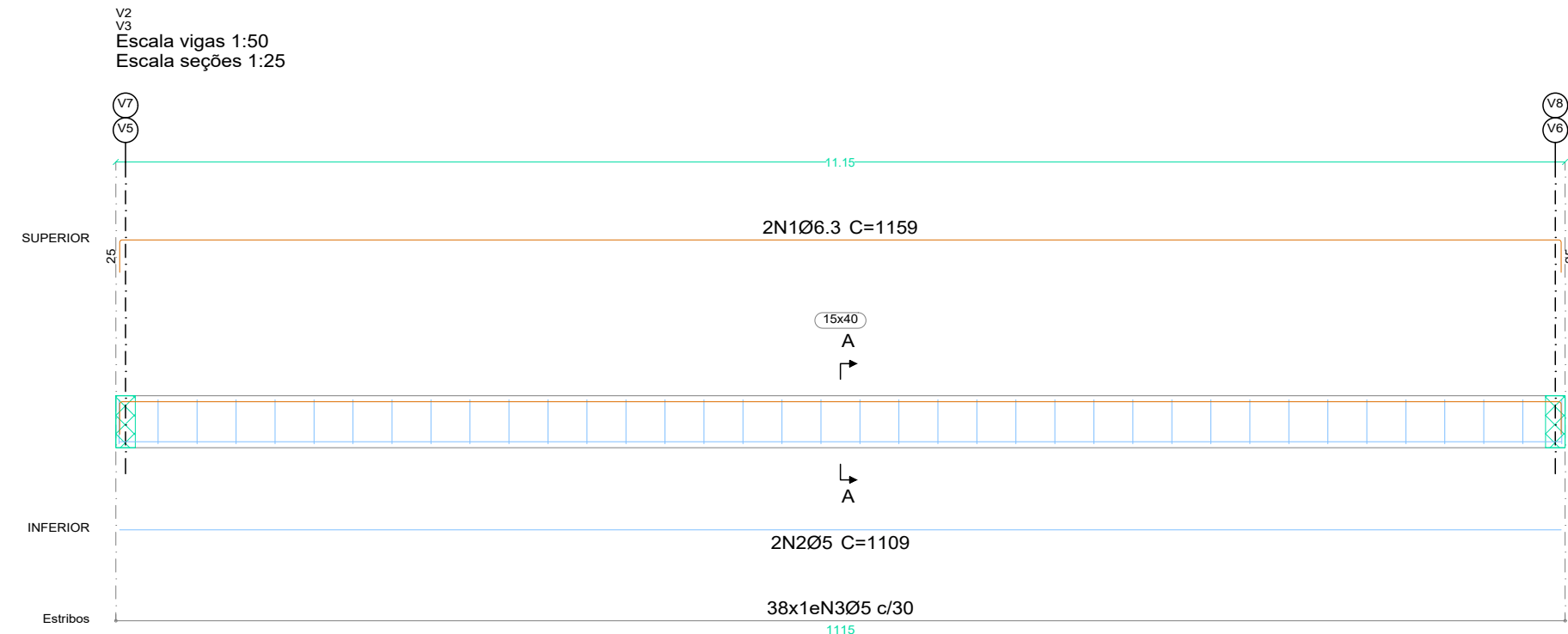
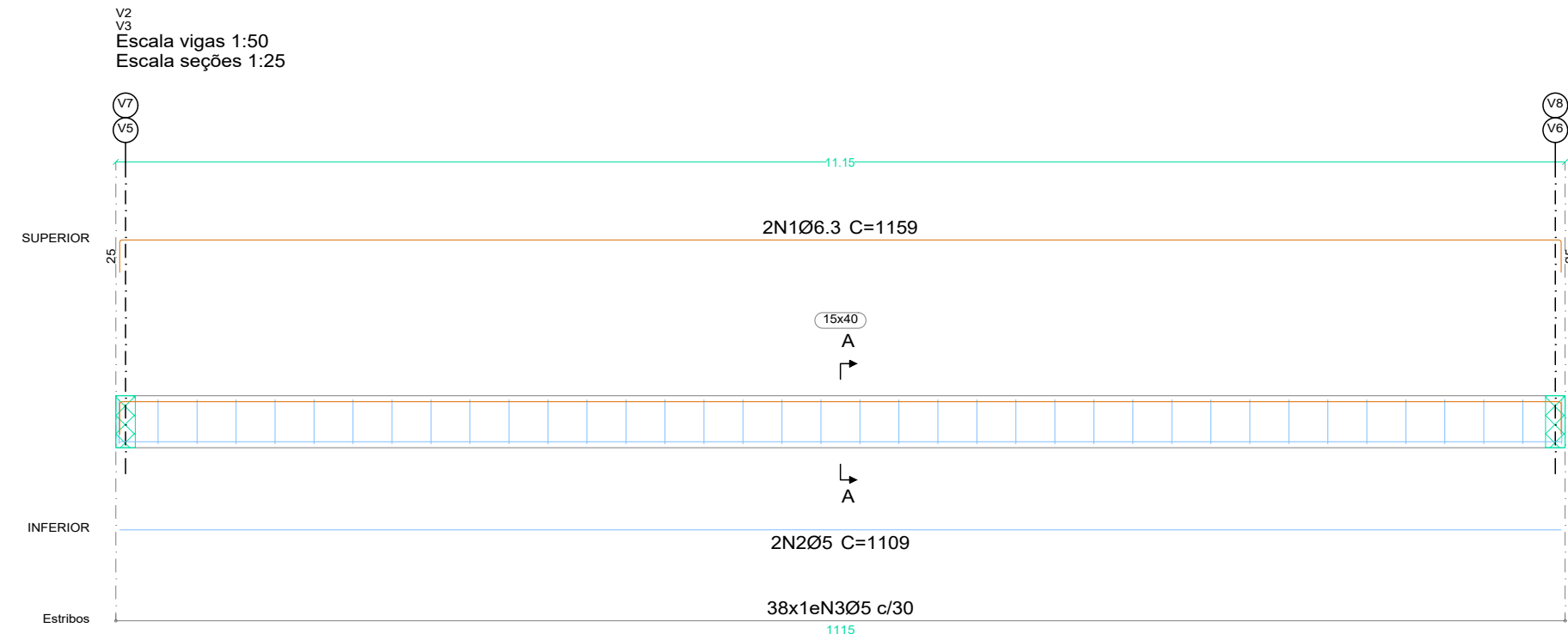
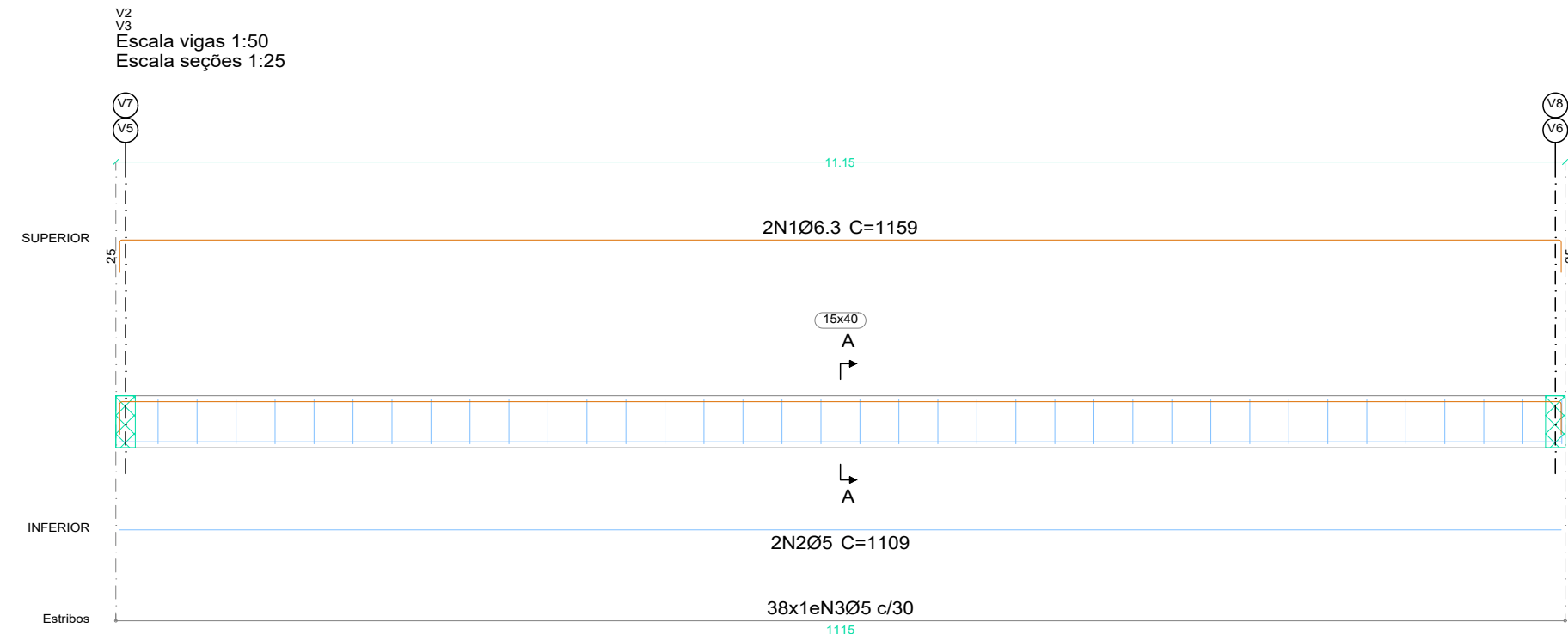
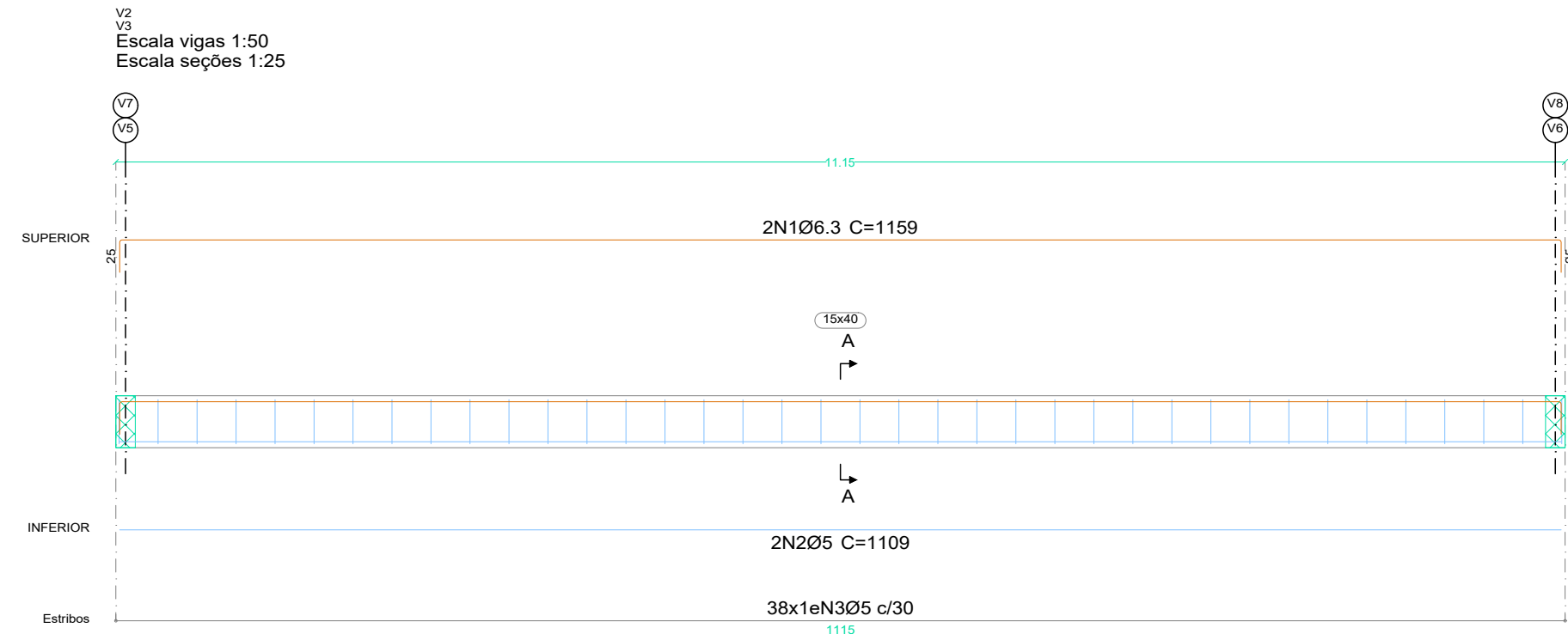
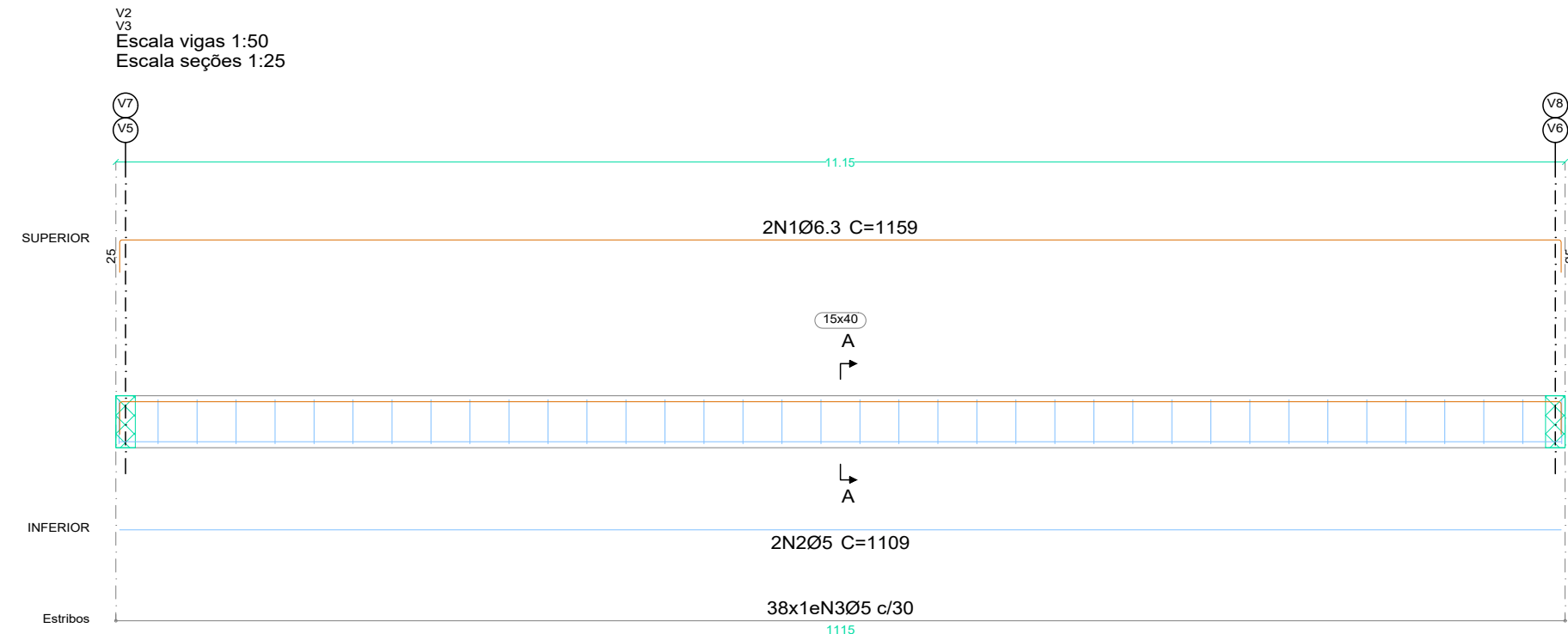
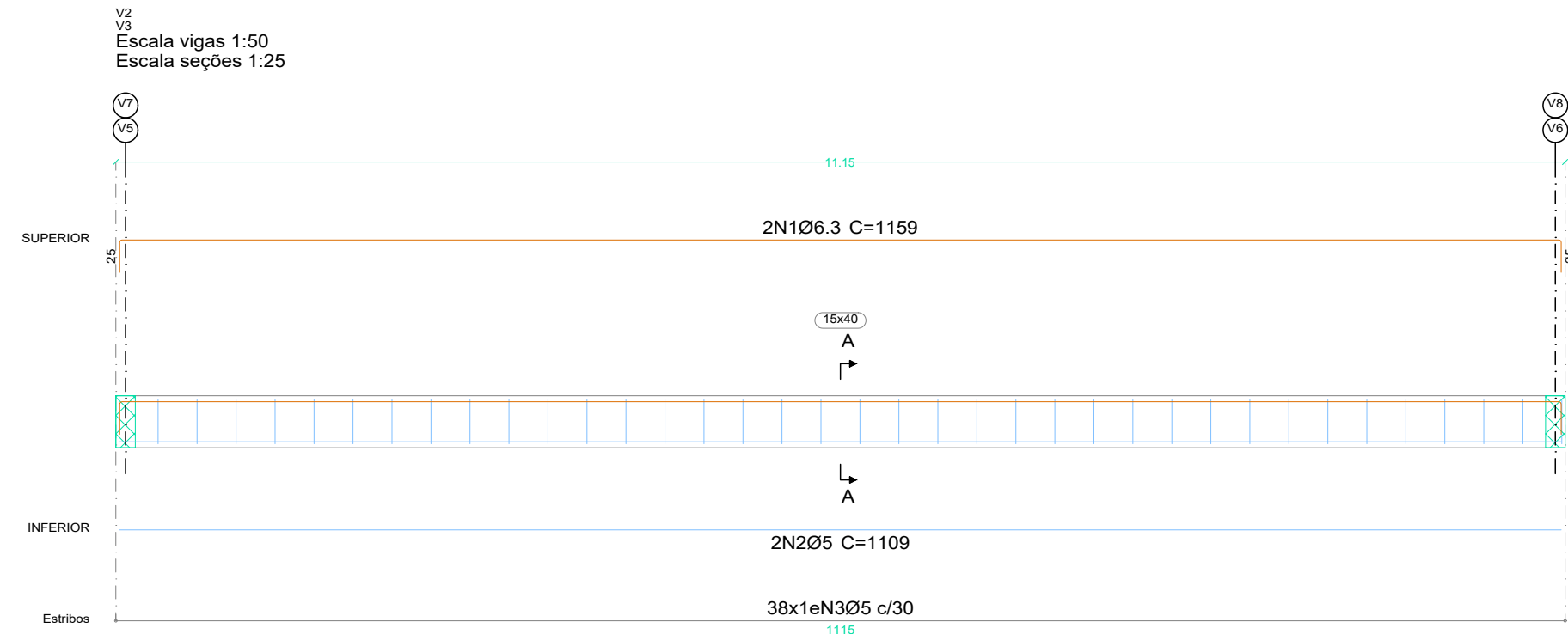
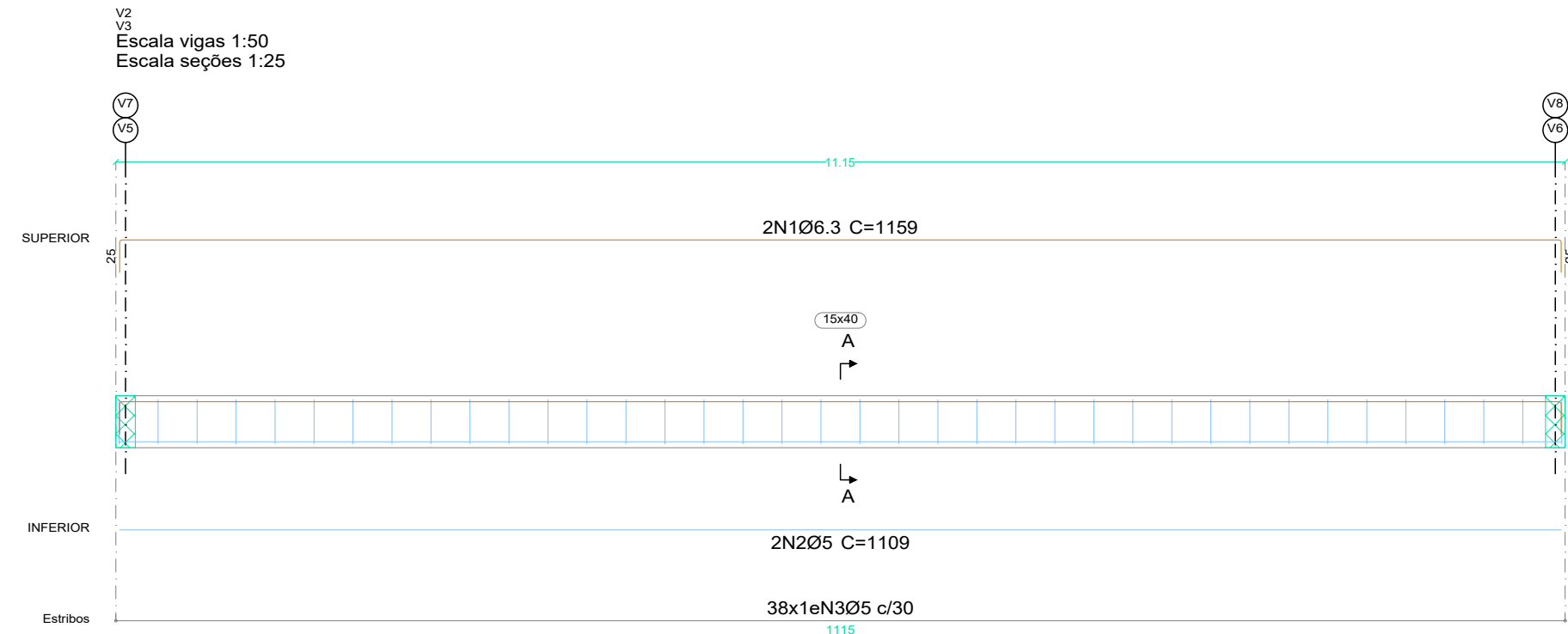
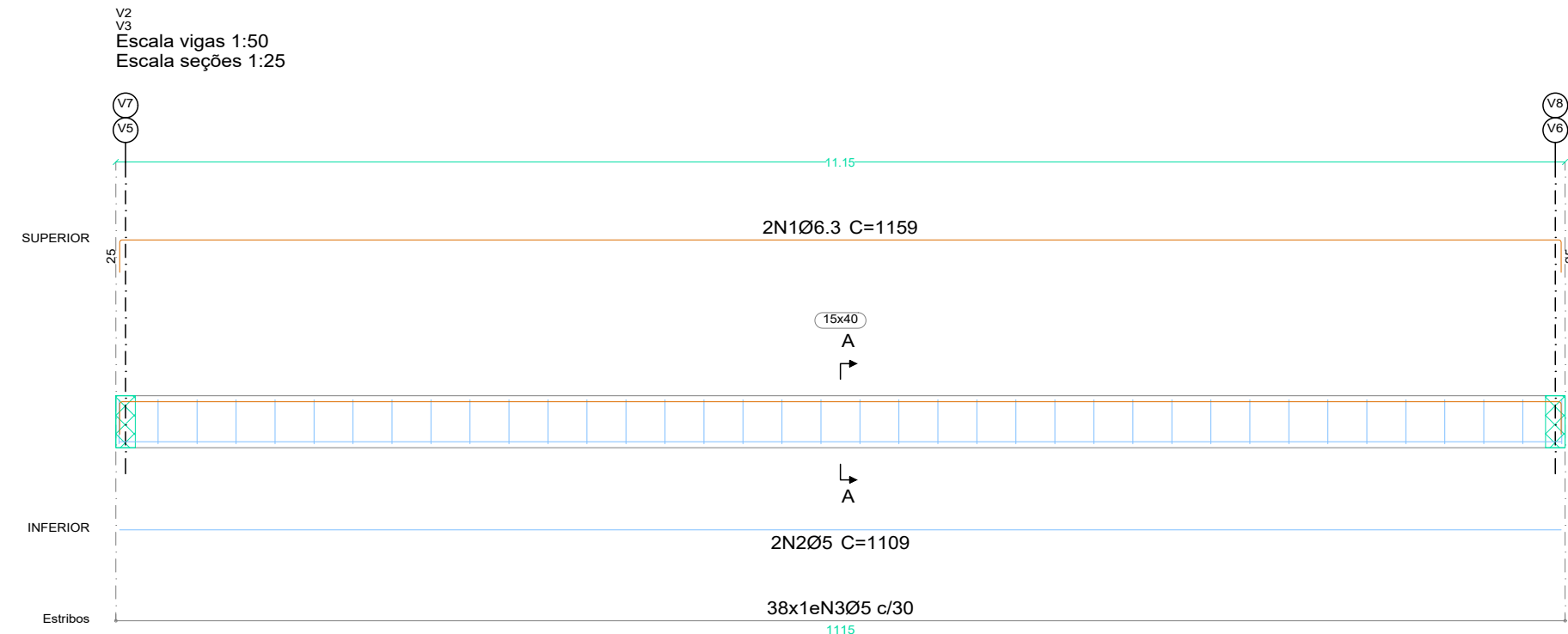
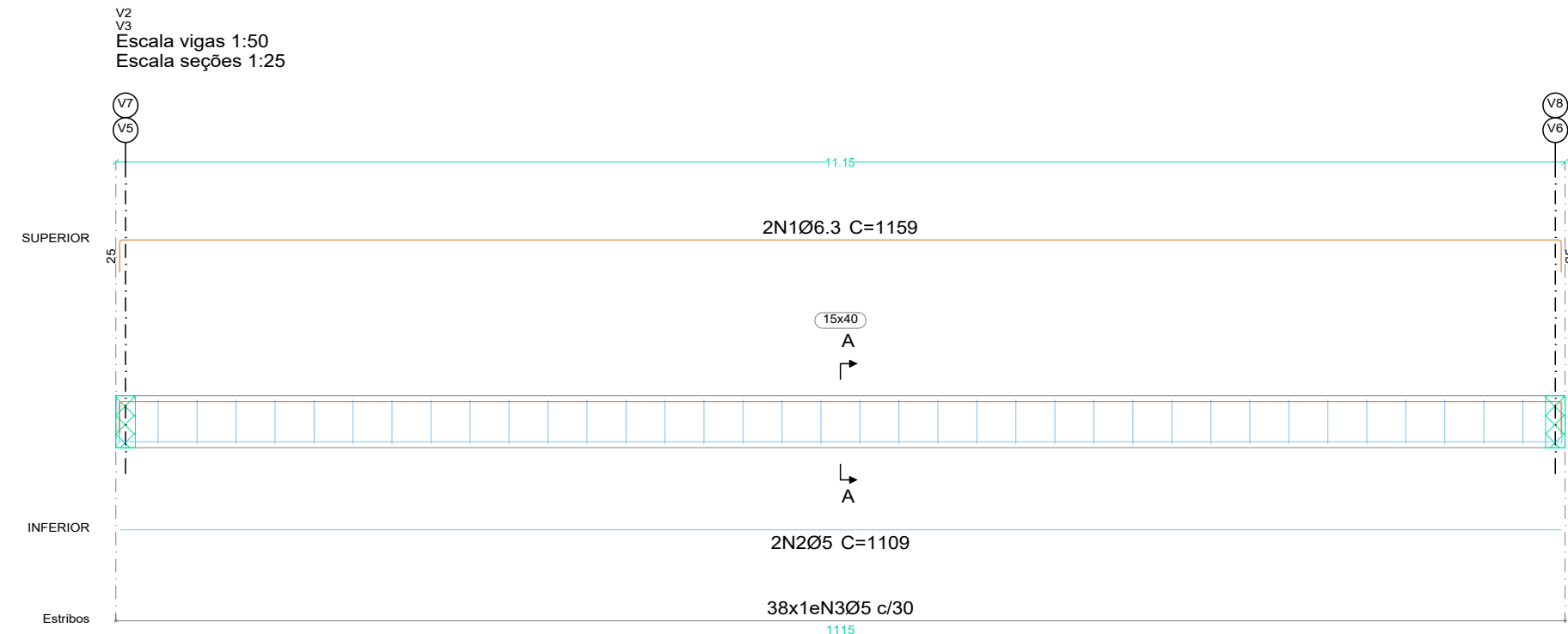
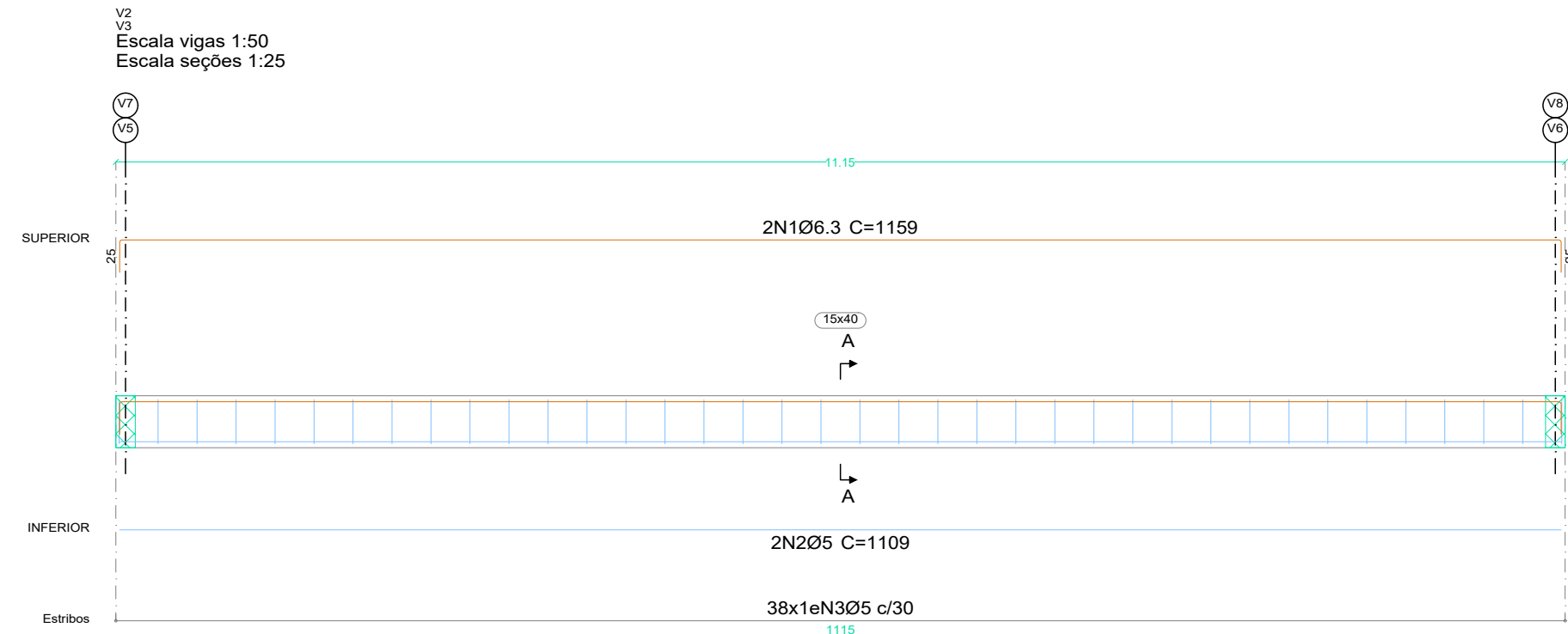
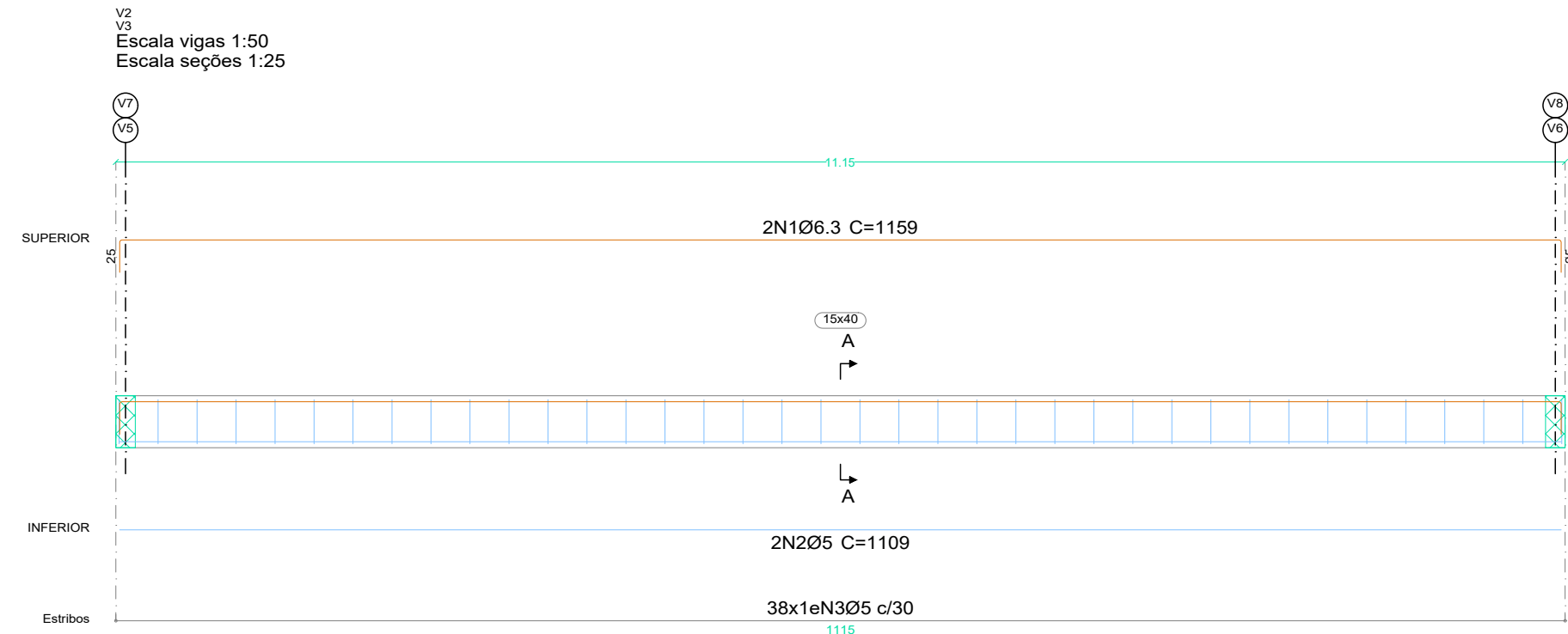
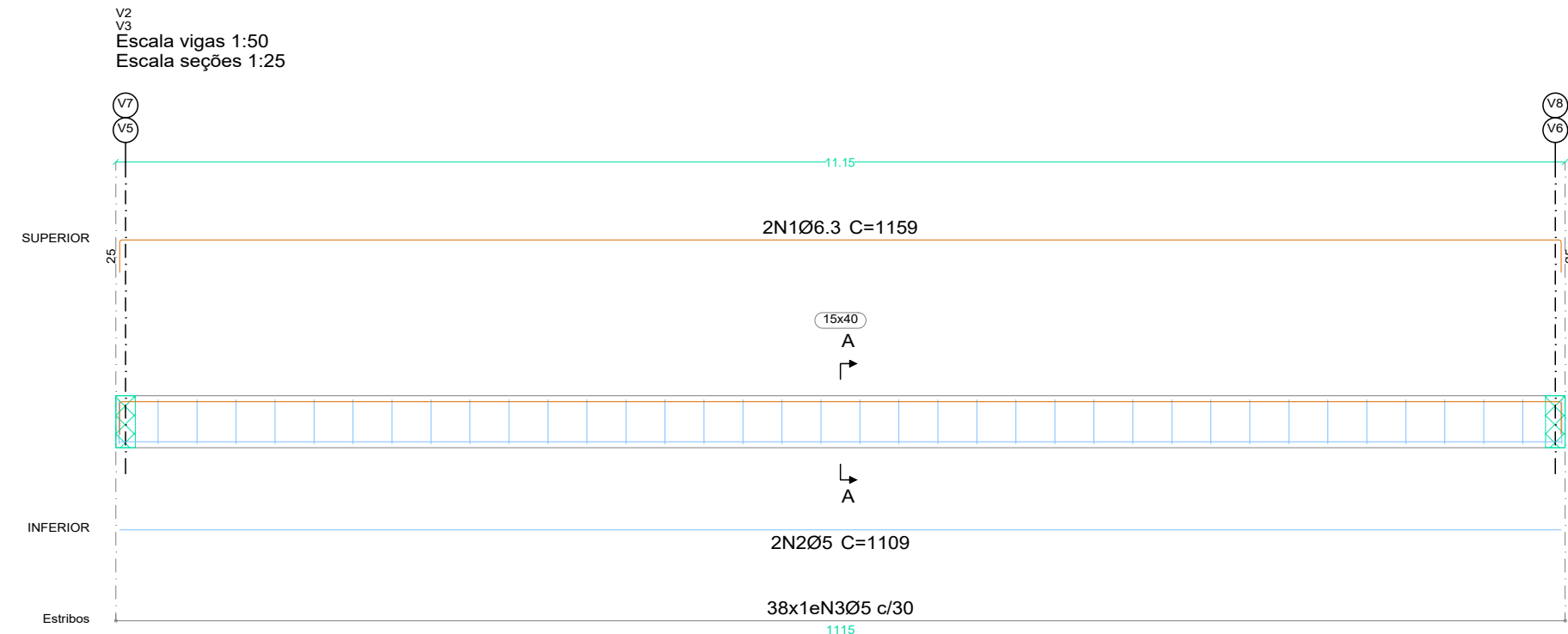
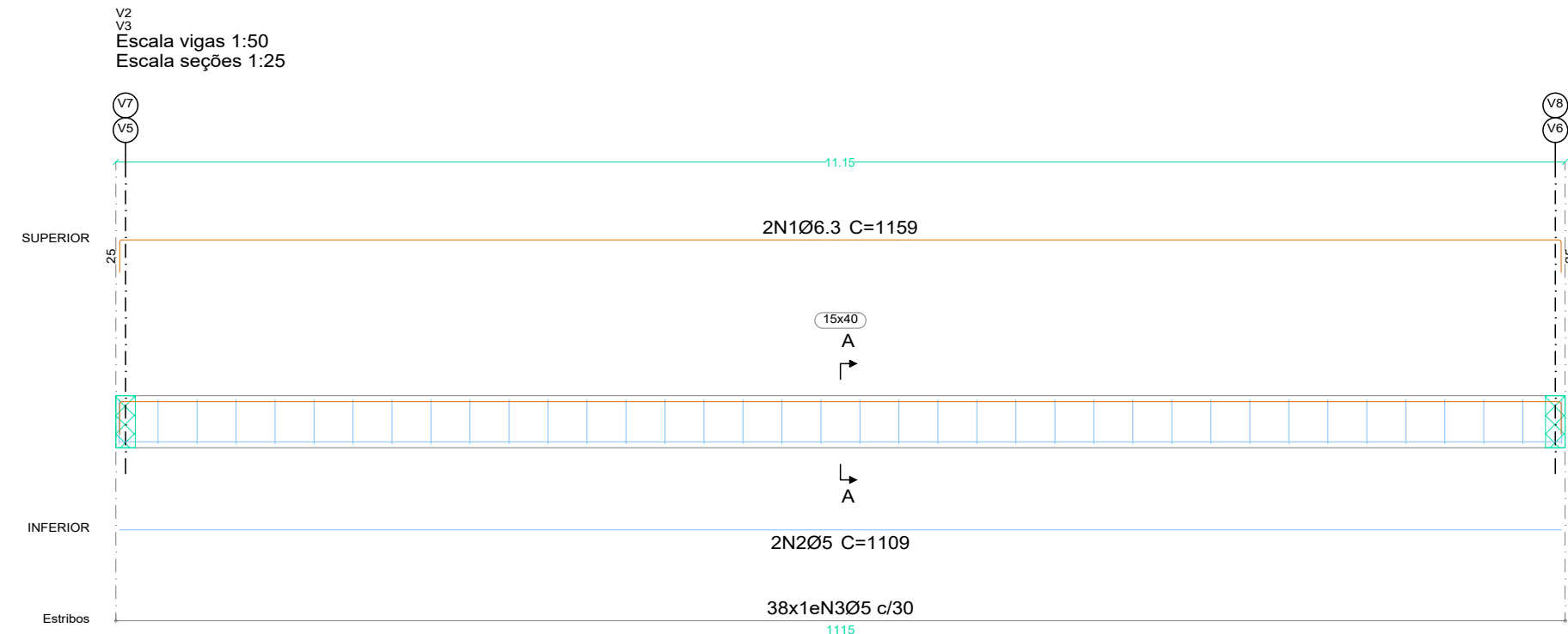
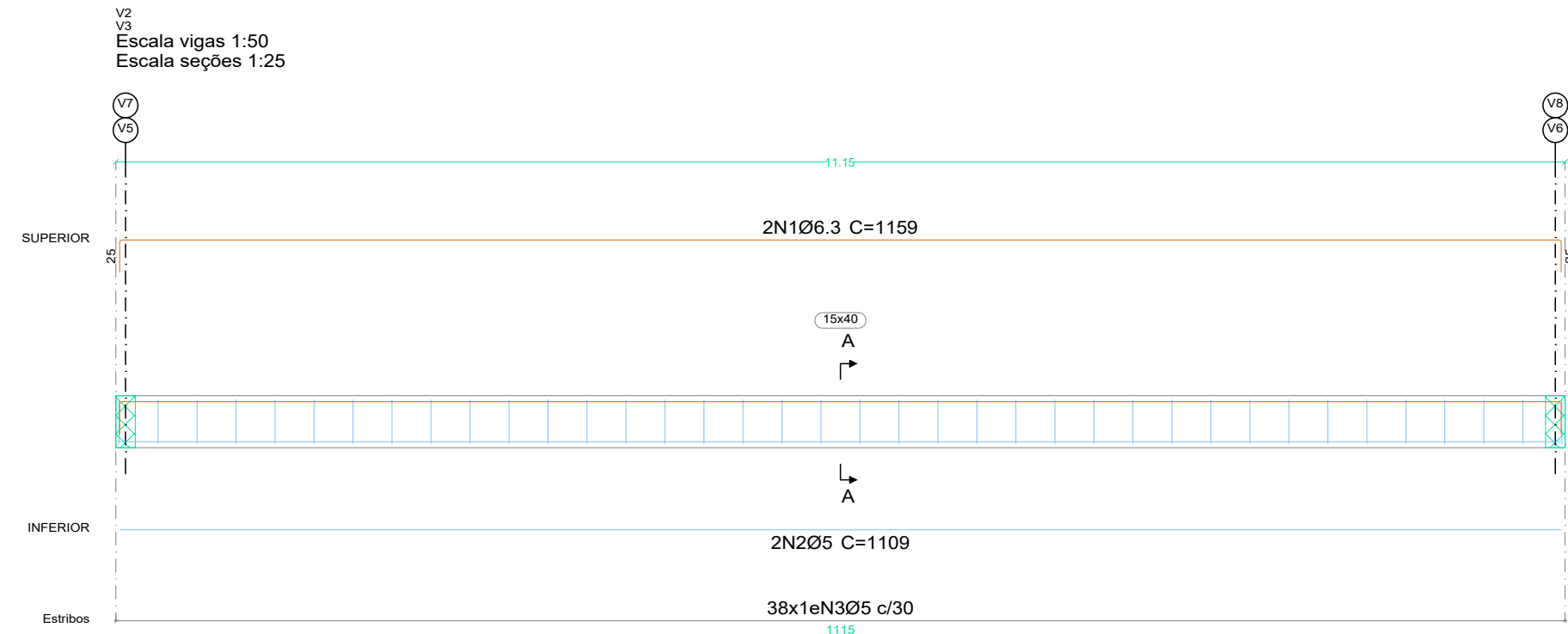
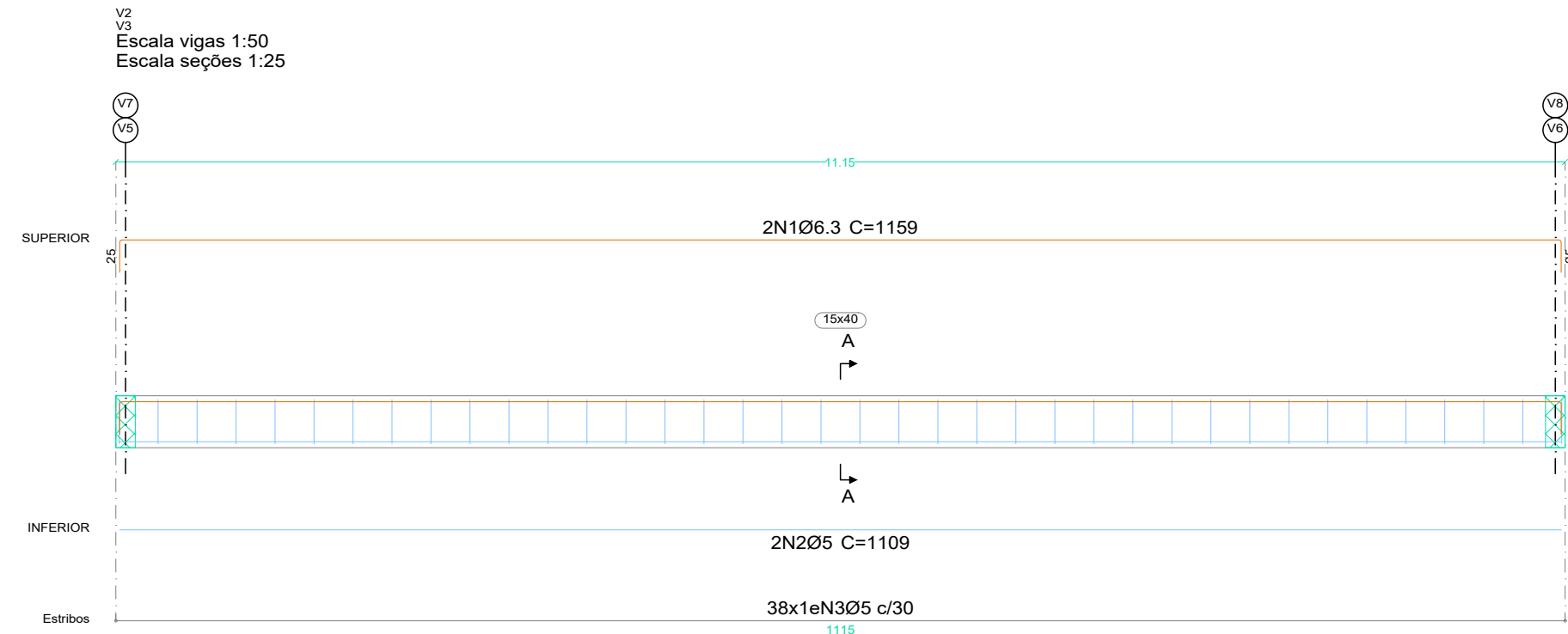
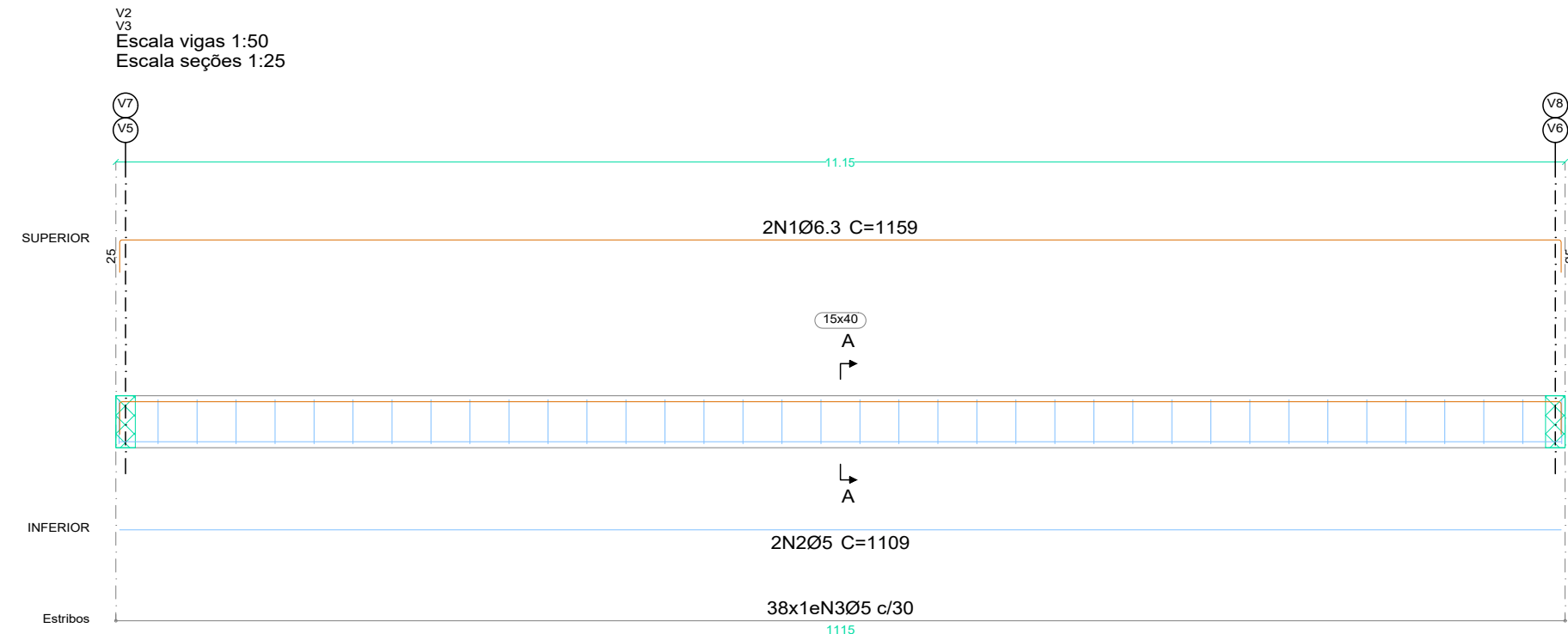
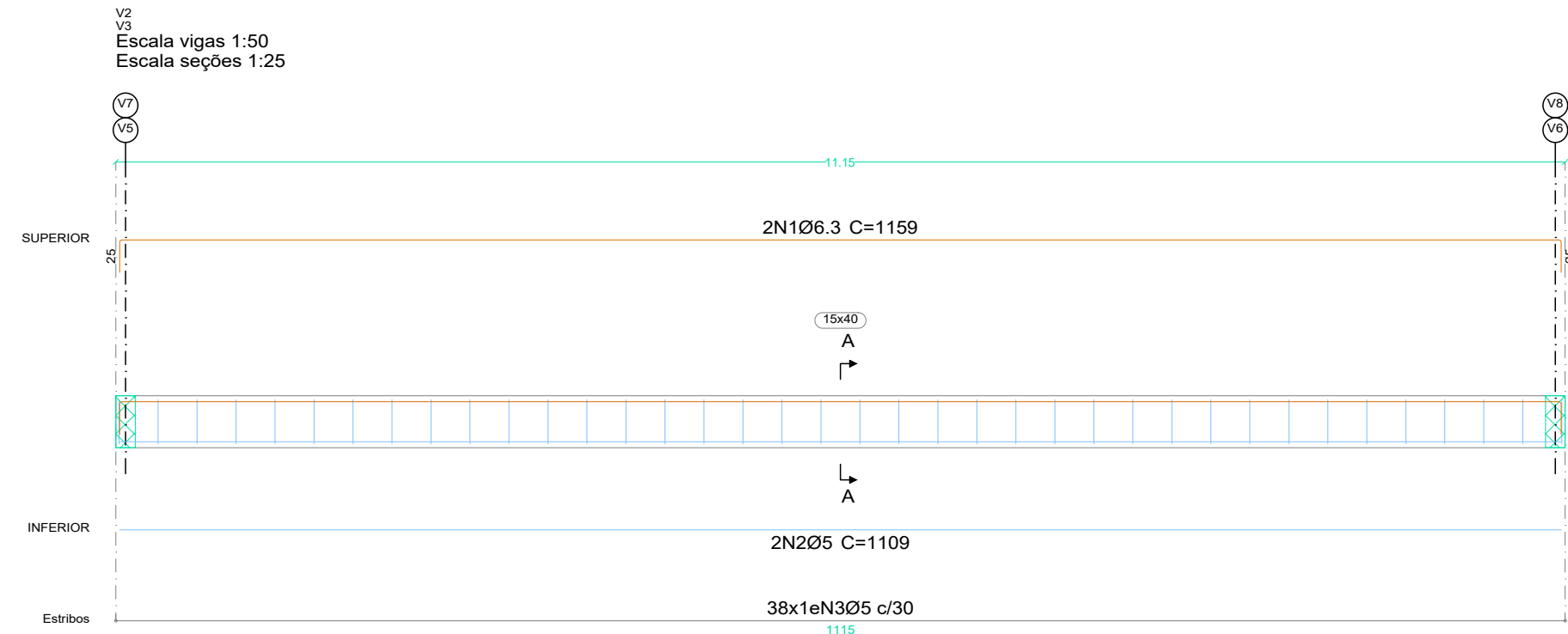
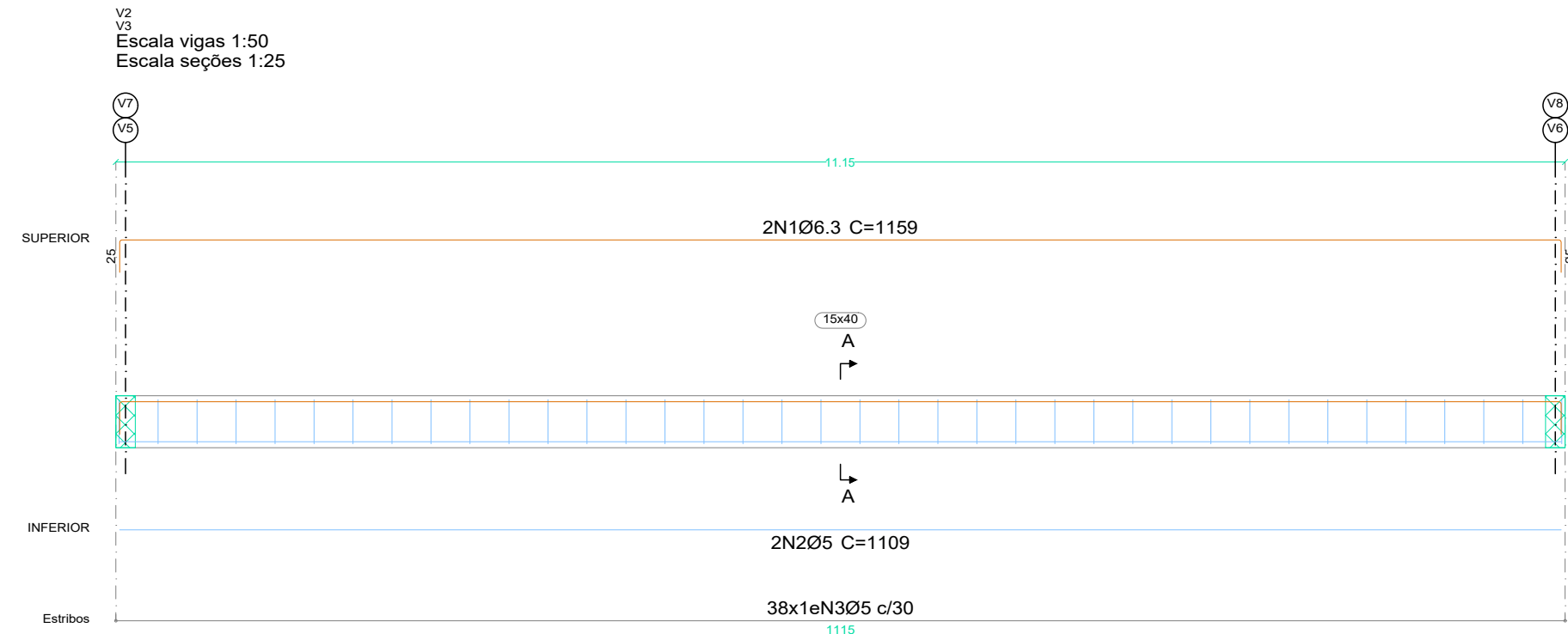
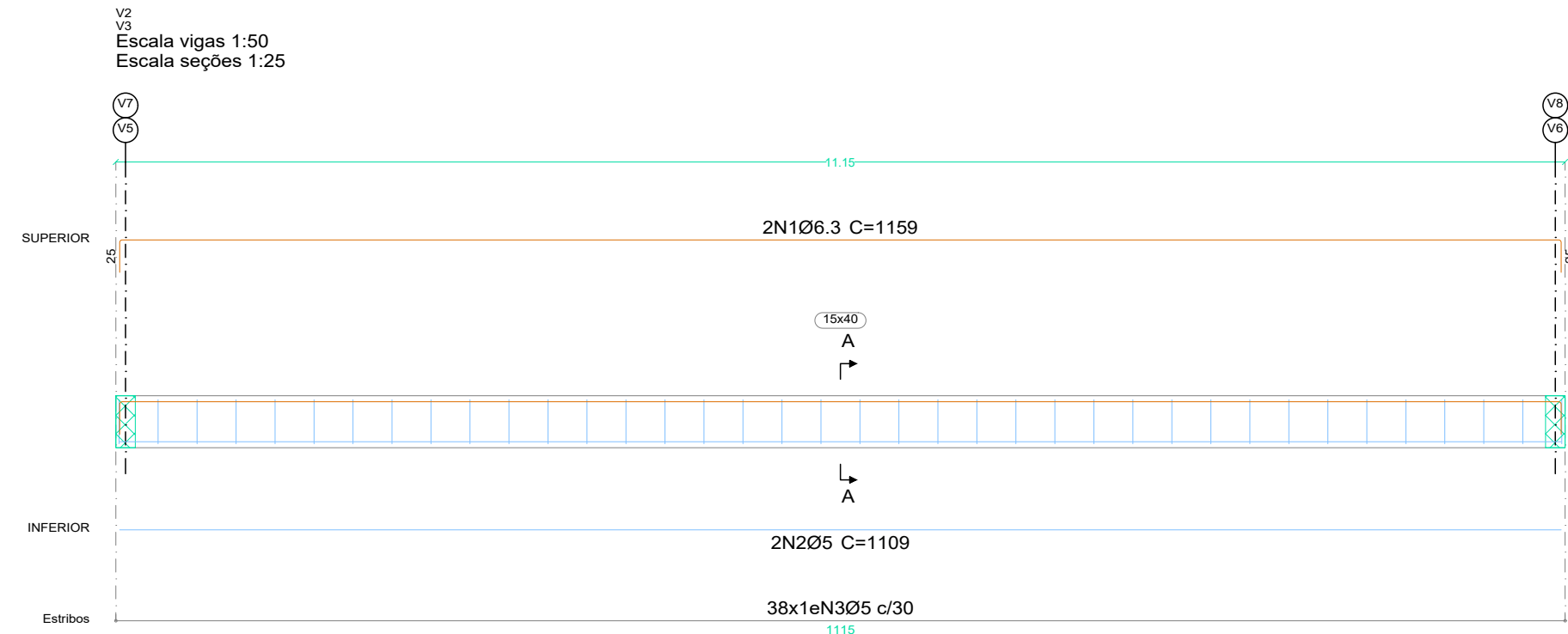
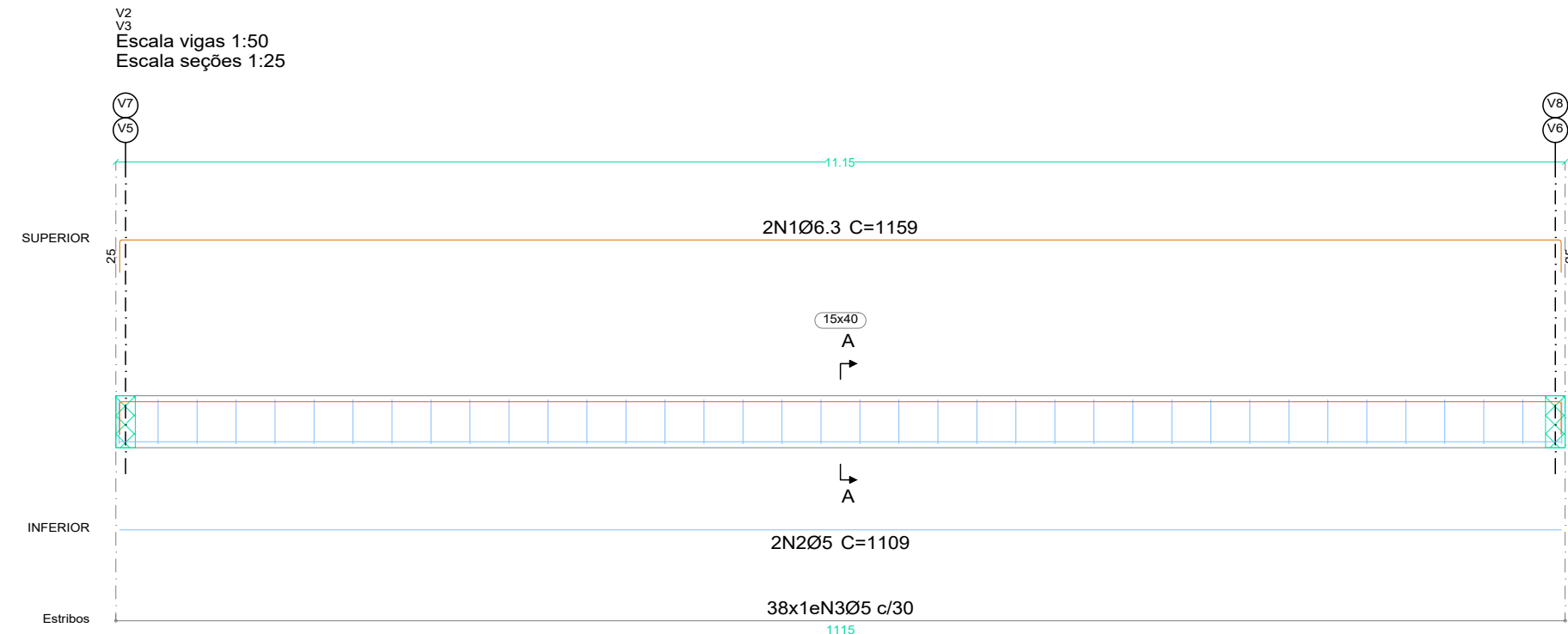
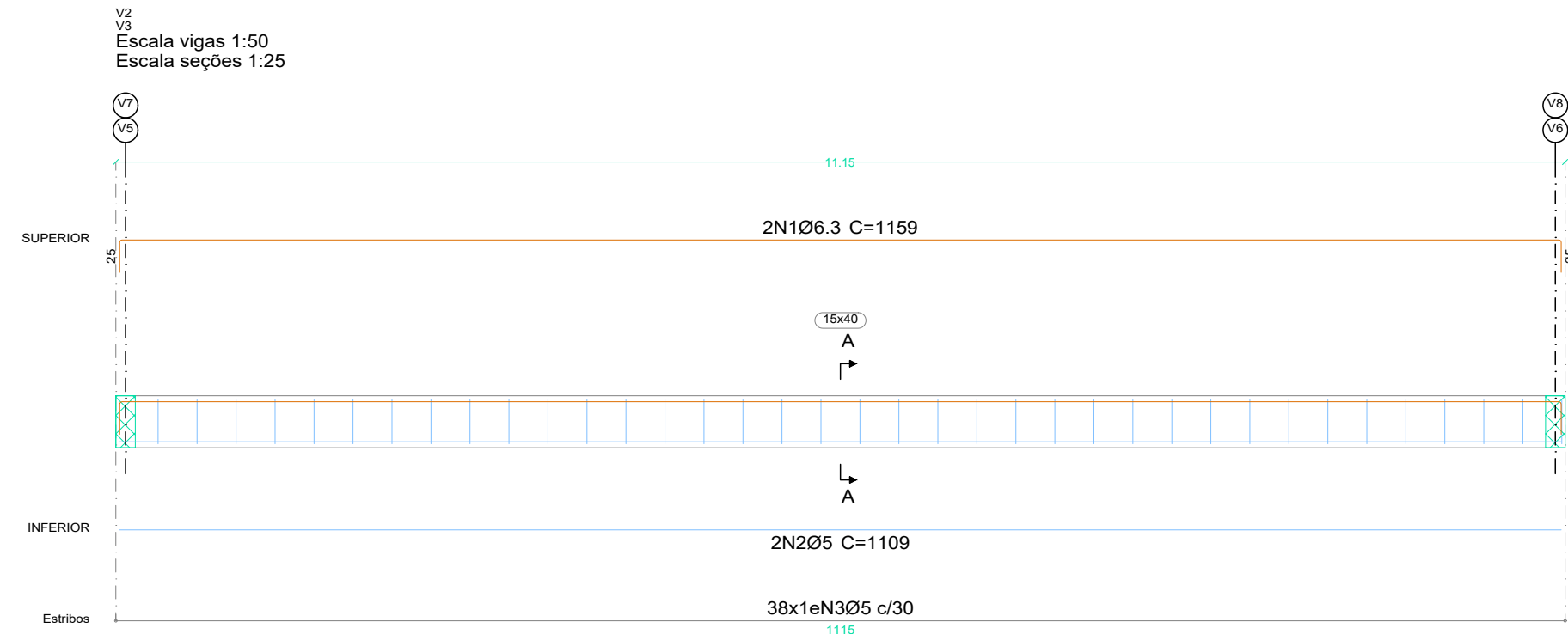
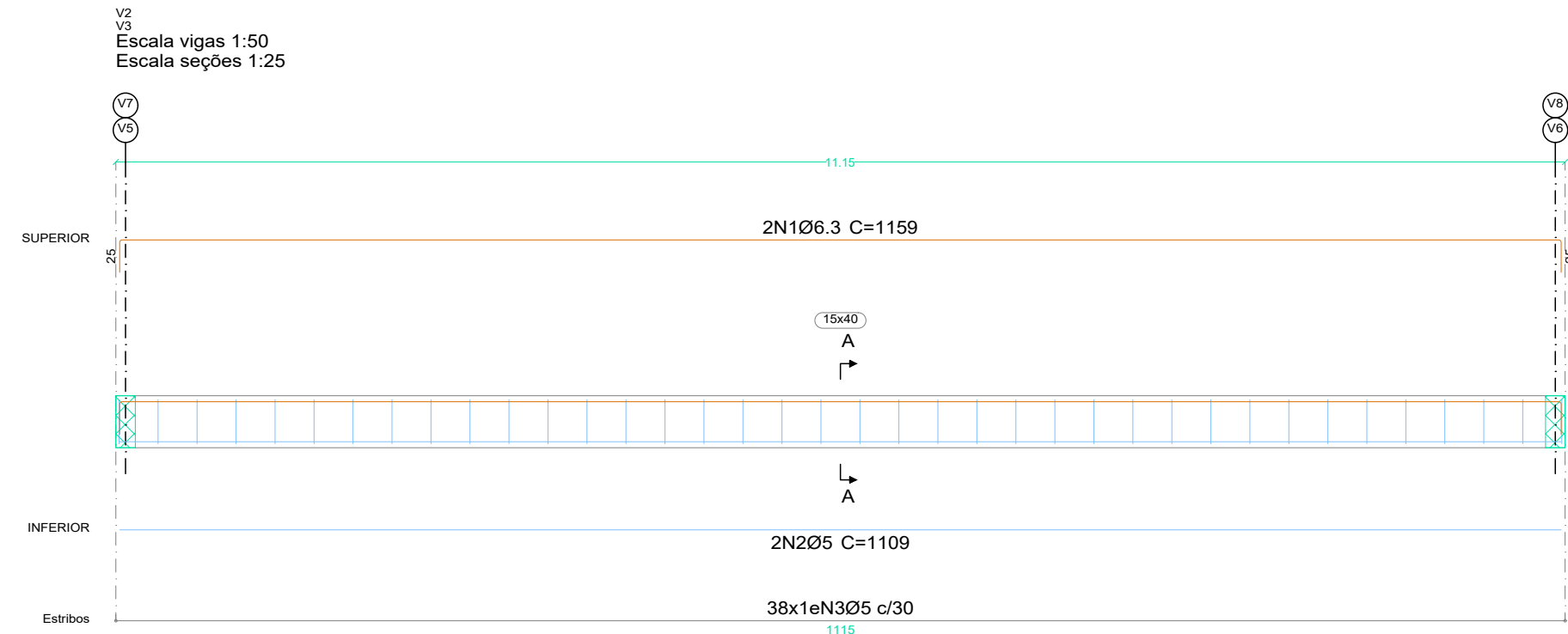
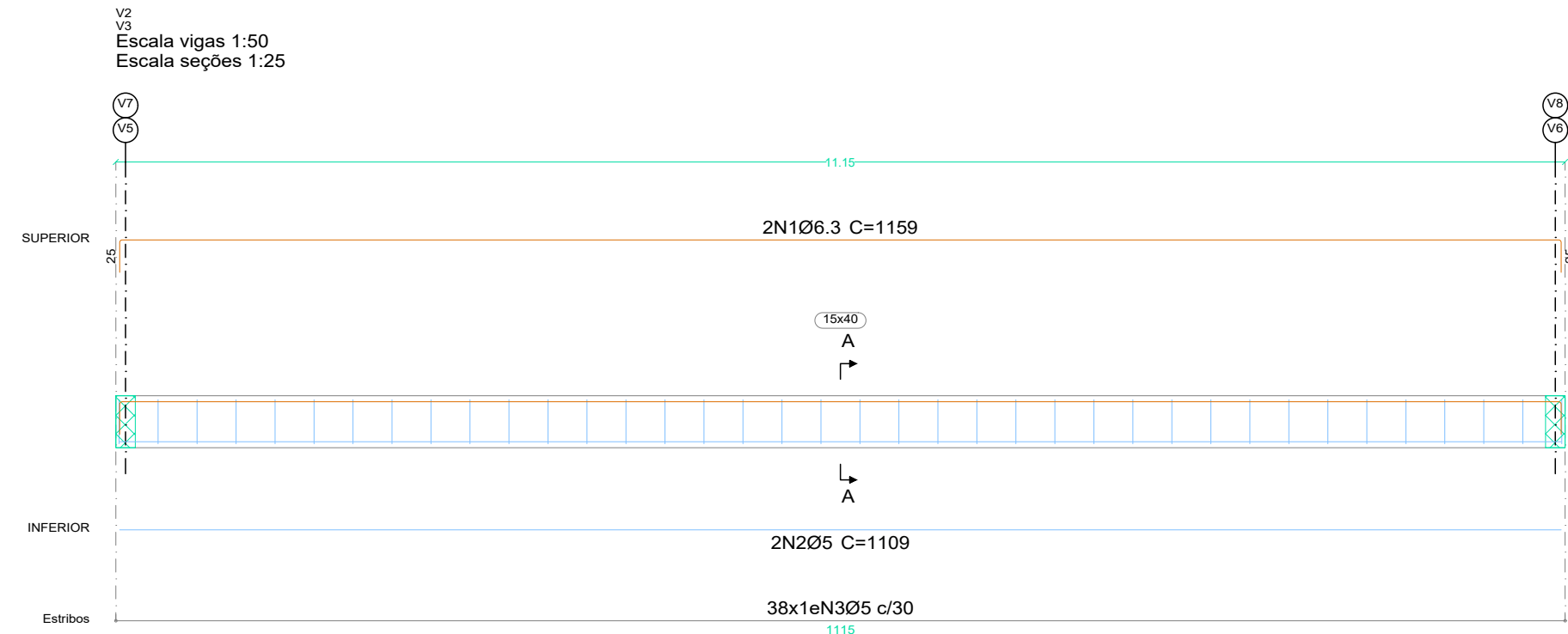
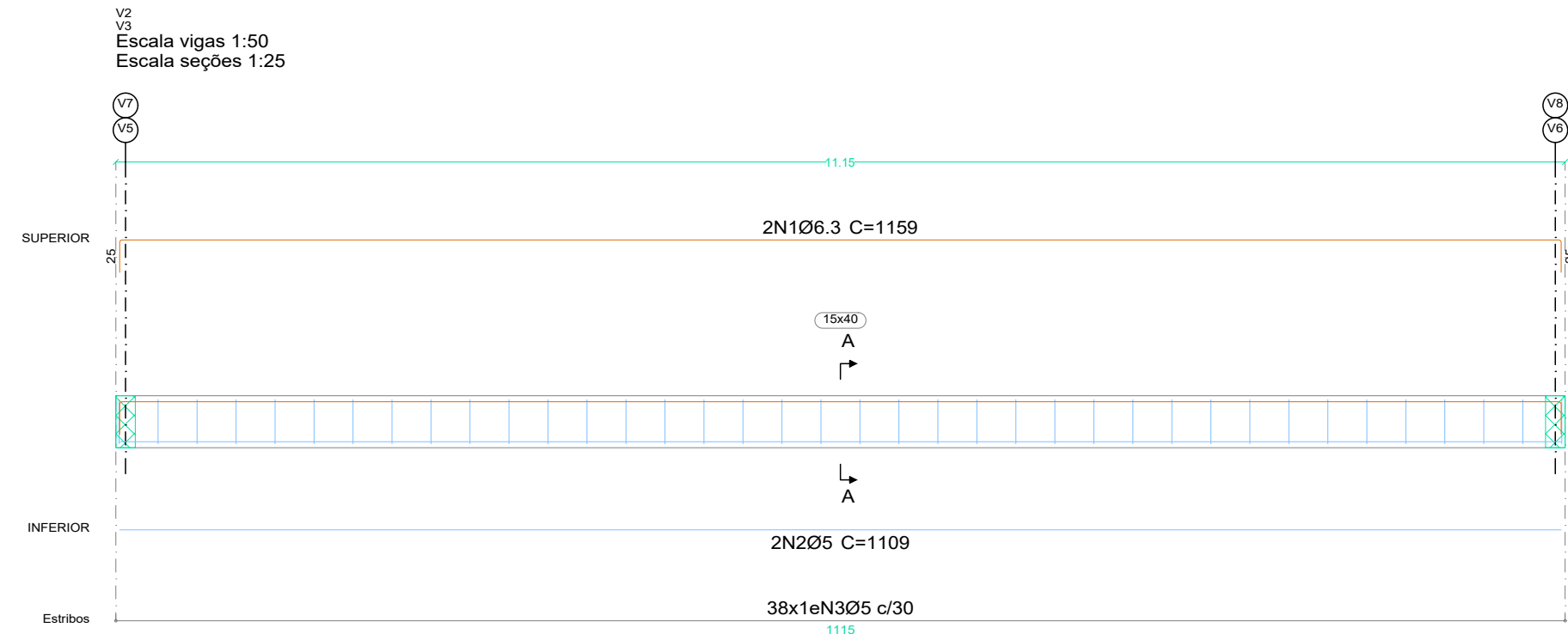
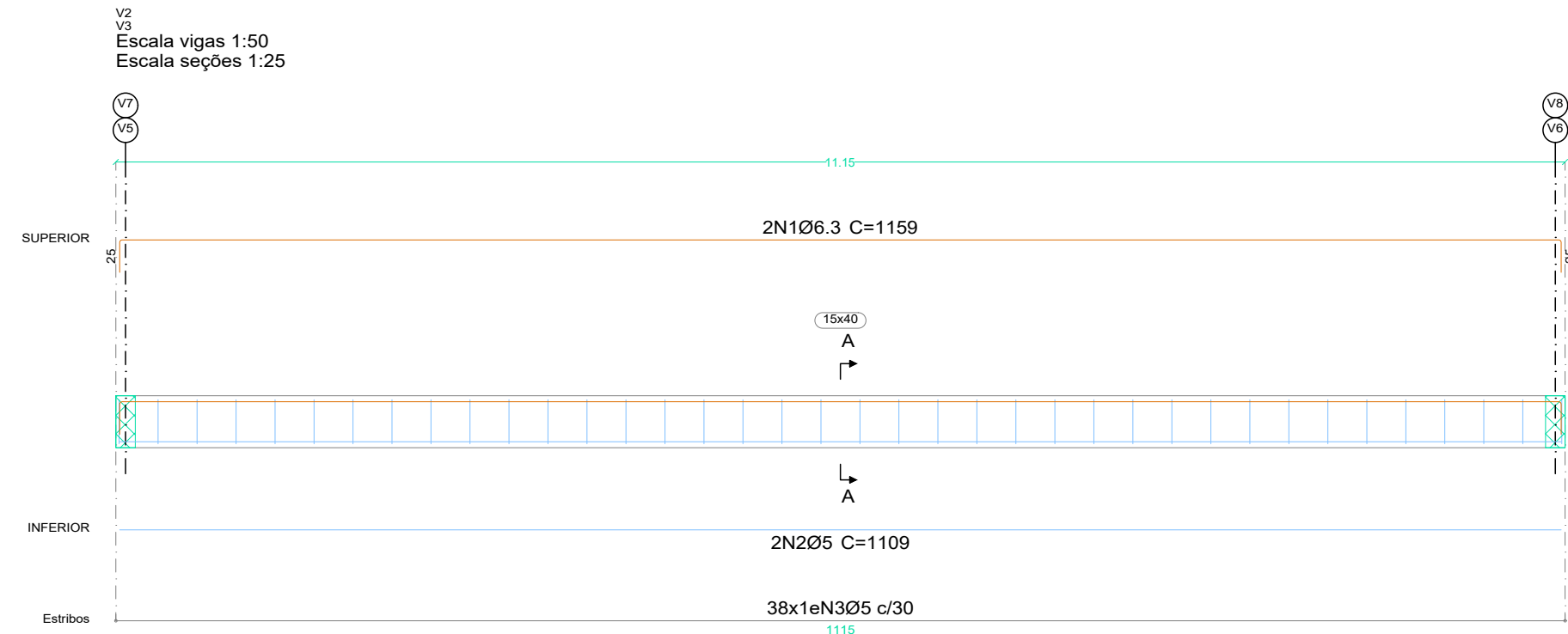
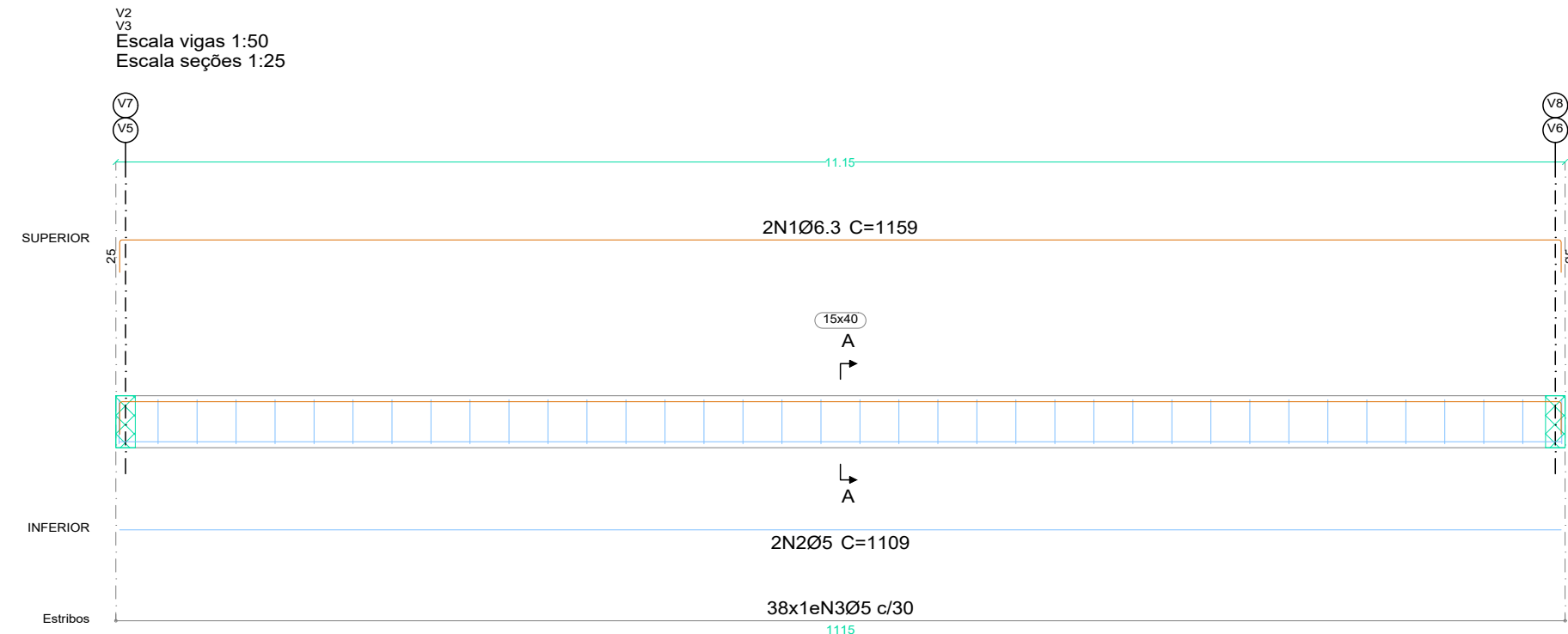
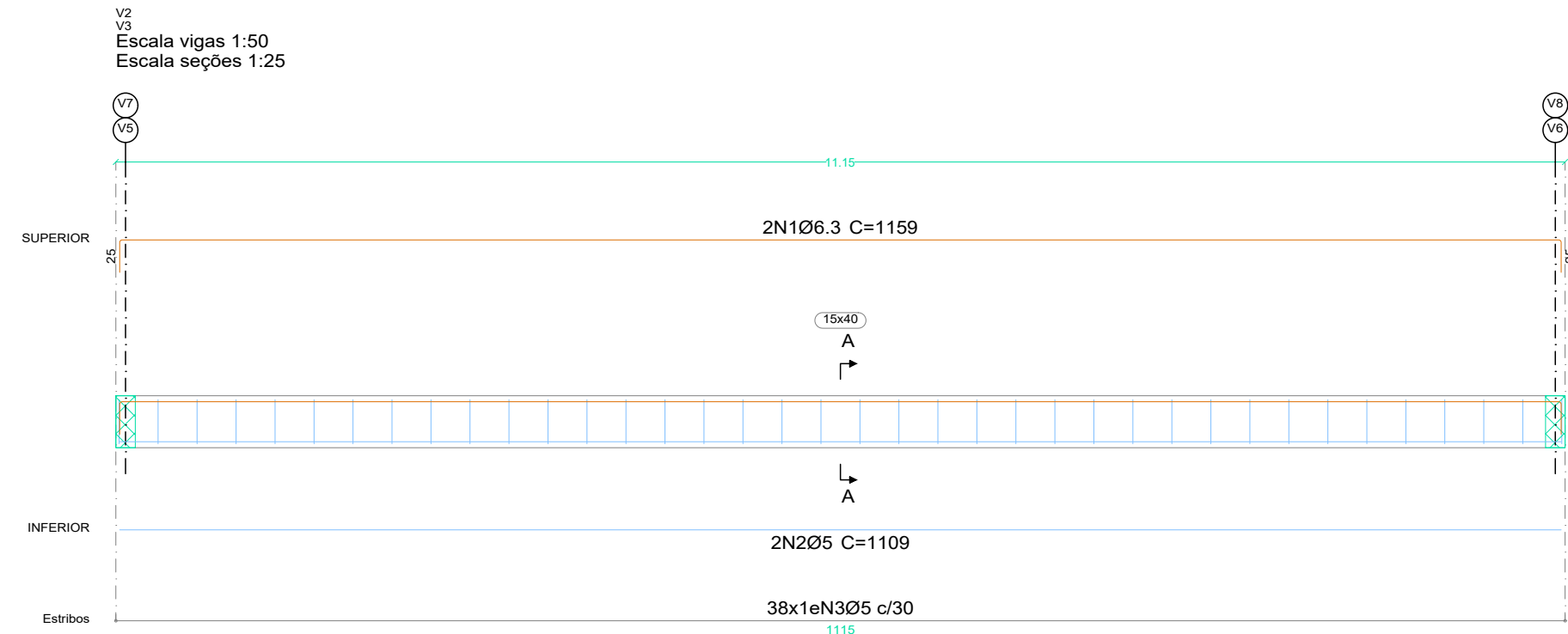
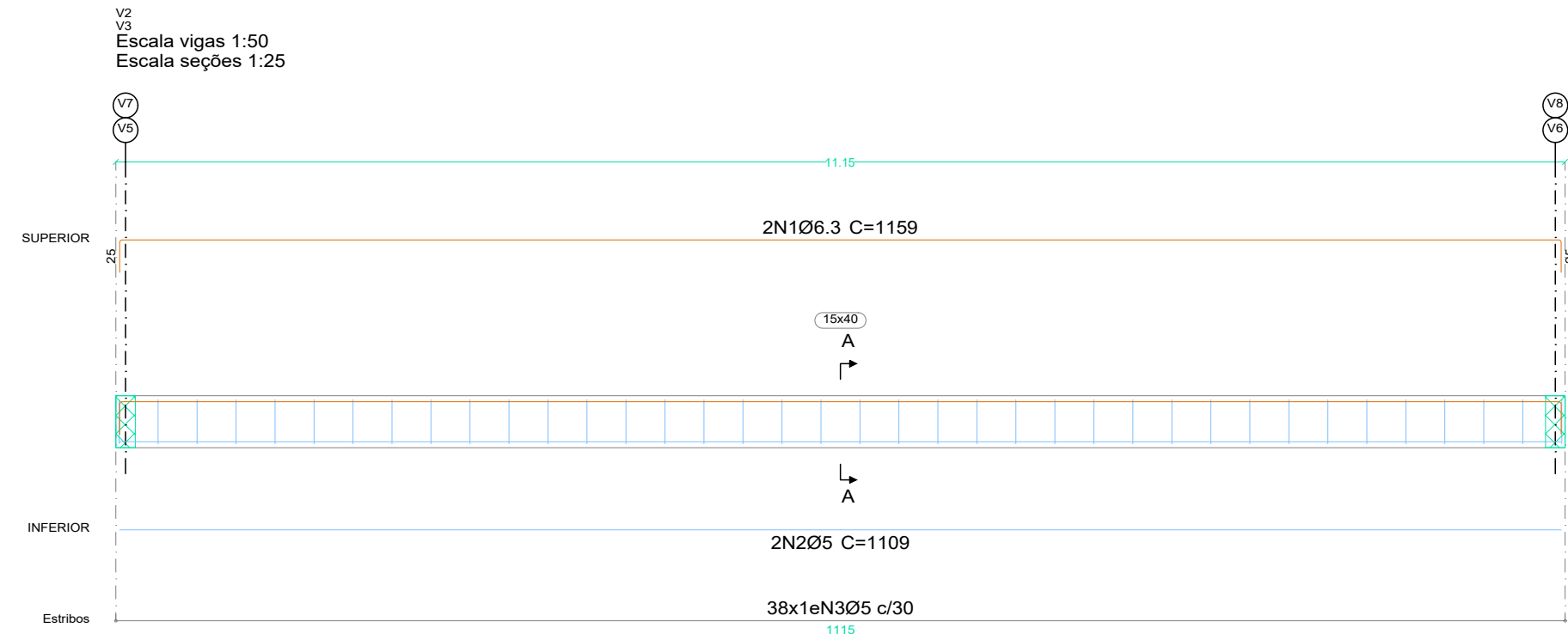
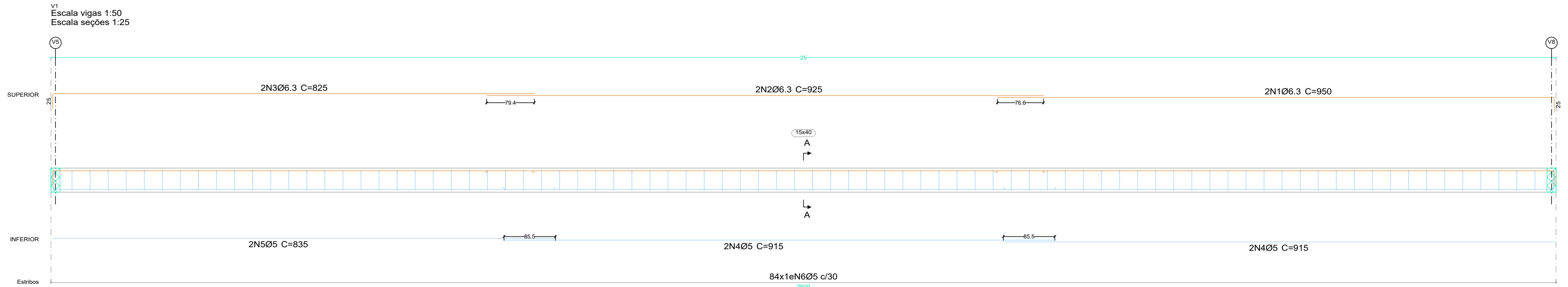
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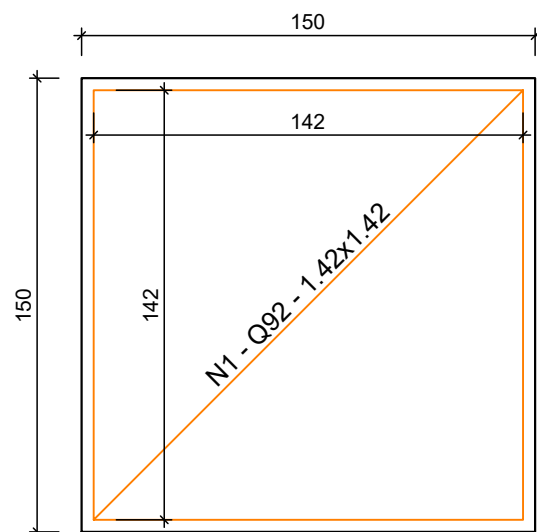
03

08

RICHARD R. ALEXANDRE

Engenheiro Civil - CREA/SC nº 044.062-2





ESPECIFICAÇÃO DAS TELAS						
DESIGNAÇÃO	ESPAÇAMENTO (cm)		Ø (mm)		APRESENTAÇÃO	PESO (kg/PÇ)
	LONG.	TRANS.	LONG.	TRANS.		
Q92	15	15	4.2	4.2	ROLO 2.45 x 60 m	218

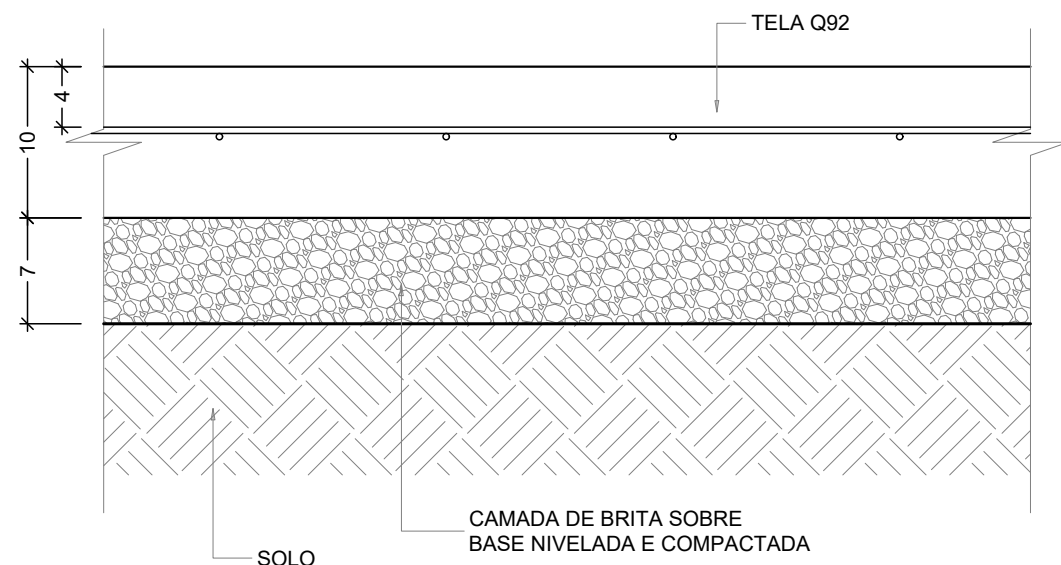
RELAÇÃO DAS TELAS				
POS.	DESIGNAÇÃO	QUANT.	DIMENSÕES	ÁREA (m²)
N1	Q92	1	1.42x1.42	2.02

RESUMO DAS TELAS			
AÇO	DESIGNAÇÃO	QUANT. ROLOS	DIMENSÕES (m)
CA 60	Q92	0.024	2.45 x 60.00
PESO TOTAL		5.2 Kg	

COBRIMENTO DA ARMADURA = 4cm
VOLUME DE BRITA = 0.17m³ (10% PERDA)
VOLUME DE CONCRETO (C25) = 0.23m³
ÁREA DE FORMA = 1.20m²

DETALHAMENTO TELAS

ESCALA: 1/25



PERFIL TRANSVERSAL

ESCALA: 1/5

Prefeitura Municipal de Tubarão

Secretaria de Urbanismo

PROJETO ESTRUTURAL

OBJETO:

PARQUE CULTURAL - BASE PARA A ESTAÇÃO DE BICICLETAS

ASSUNTO:

DETALHAMENTO DAS ARMADURAS E PERFIL TRANSVERSAL

ESCALA:

Indicada

DATA:

Nov/2021

ARQUIVO:

Base da Estação de Bicicletas.dwg

ENDEREÇO:

Trecho entre Ruas Tubalcaim Faraco e Professora Eugênia dos Reis Perito - Tubarão/SC

RESP. TÉCNICO:

RICHARD RODRIGUES ALEXANDRE:88945367934

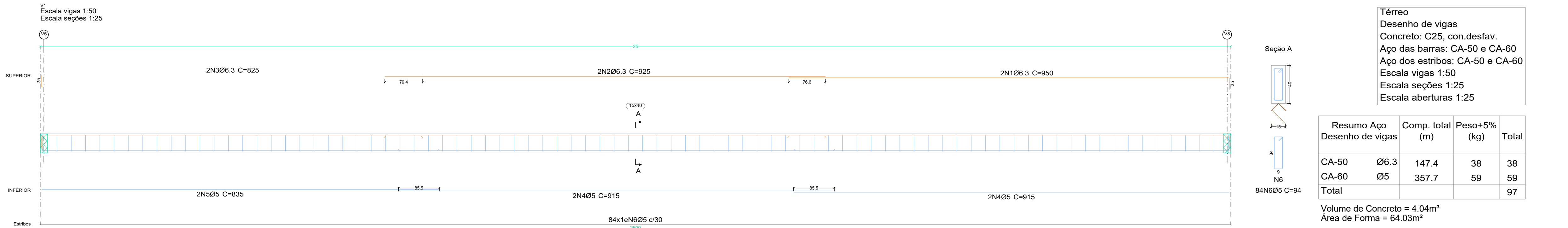
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RICHARD R. ALEXANDRE

Engenheiro Civil - CREA/SC nº 044.062-2

05

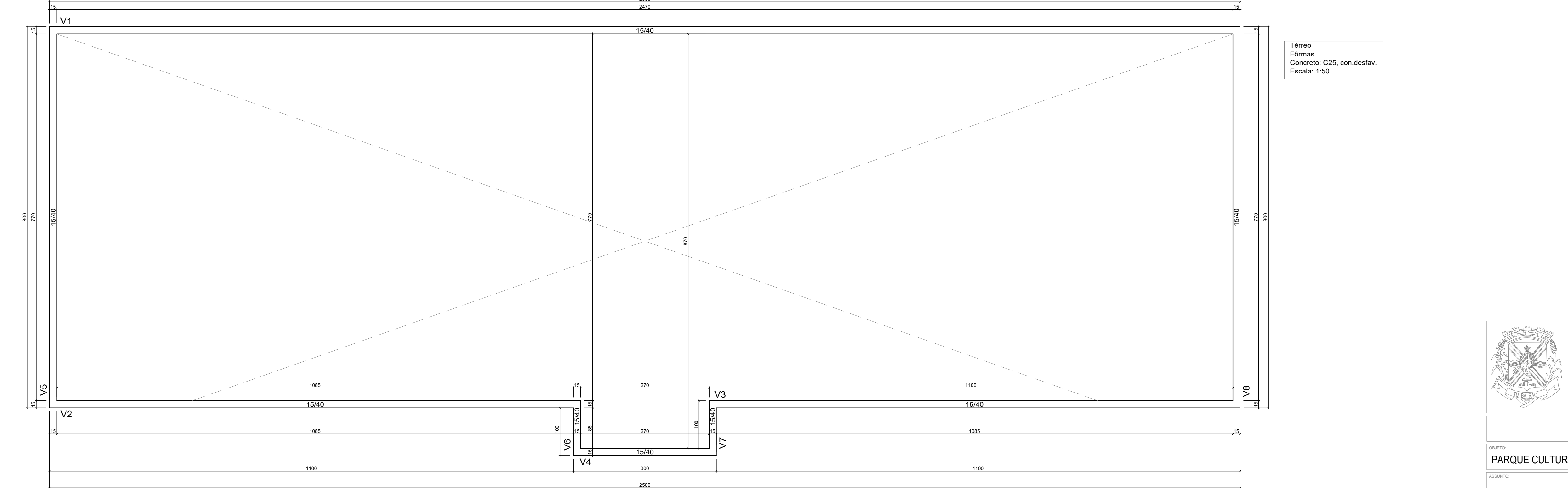
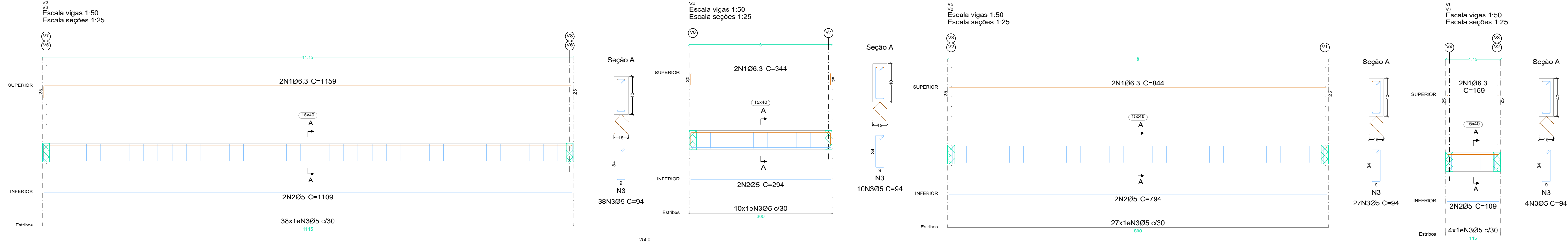
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Térreo
Desenho de vigas
Concreto: C25, con.desfav.
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:25
Escala aberturas 1:25

Resumo Aço	Comp. total	Peso+5%	Total
Desenho de vigas	(m)	(kg)	
CA-50	Ø6.3	147.4	38
CA-60	Ø5	357.7	59
Total			97

Volume de Concreto = 4.04m³
Área de Forma = 64.03m²



GEOMETRIA EM PLANTA DO VIGAMENTO
ESCALA: 1/50

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V1	1	Ø6.3	2		925	25	950	1900	4.7	
	2	Ø6.3	2		925		925	1850	4.5	
	3	Ø6.3	2	25	800		825	1650	4.0	
	4	Ø5	4		915		915	3660		5.7
	5	Ø5	2		835		835	1670		2.6
	6	Ø5	84	5	84	5	94	7896		12.4
Total+5%:									13.9	21.7
V2=V3	1	Ø6.3	2	25	1109	25	1159	2318	5.7	
	2	Ø5	2		1109		1109	2218		3.5
	3	Ø5	38	5	84	5	94	3572		5.6
Total+5%:									6.0	9.6
(x2):									12.0	19.2
V4	1	Ø6.3	2	25	294	25	344	688	1.7	
	2	Ø5	2		294		294	588		0.9
	3	Ø5	10	5	84	5	94	940		1.5
Total+5%:									1.8	2.5
V5=V8	1	Ø6.3	2	25	794	25	844	1688	4.1	
	2	Ø5	2		794		794	1588		2.5
	3	Ø5	27	5	84	5	94	2538		4.0
Total+5%:									4.3	6.8
(x2):									8.6	13.6
V6=V7	1	Ø6.3	2	25	109	25	159	318	0.8	
	2	Ø5	2		109		109	218		0.3
	3	Ø5	4	5	84	5	94	376		0.6
Total+5%:									0.8	0.9
(x2):									1.6	1.8
Ø5:									0.0	58.8
Ø6.3:									37.9	0.0
Total:									37.9	58.8



Prefeitura Municipal de Tubarão

Secretaria de Urbanismo

PROJETO ESTRUTURAL

OBJETO:

PARQUE CULTURAL - VIGA DE PERÍMETRO PET PLACE

ASSUNTO:

DETALHAMENTO DAS ARMADURAS E PERFIL TRANSVERSAL

ESCALA:

Indicada

DATA:

Nov/2021

ARQUIVO:

Base da Estação de Bicicletas.dwg

ENDEREÇO:

Trecho entre Ruas Tubalcain Faraco e Professora Eugénia dos Reis Perito - Tubarão/SC

RESP. TÉCNICO:

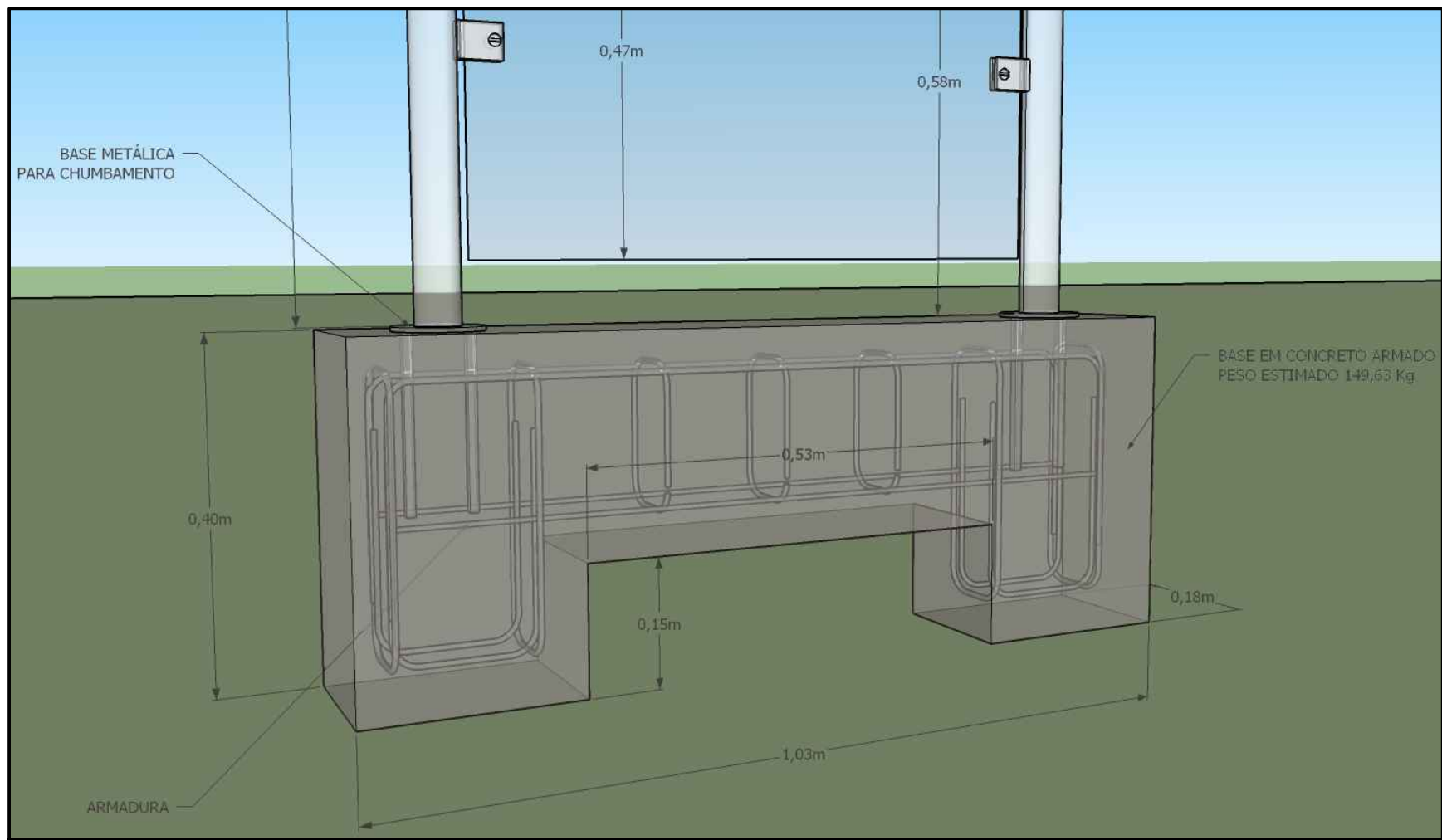
RICHARD RODRIGUES
ALEXANDRE RODRIGUES
934

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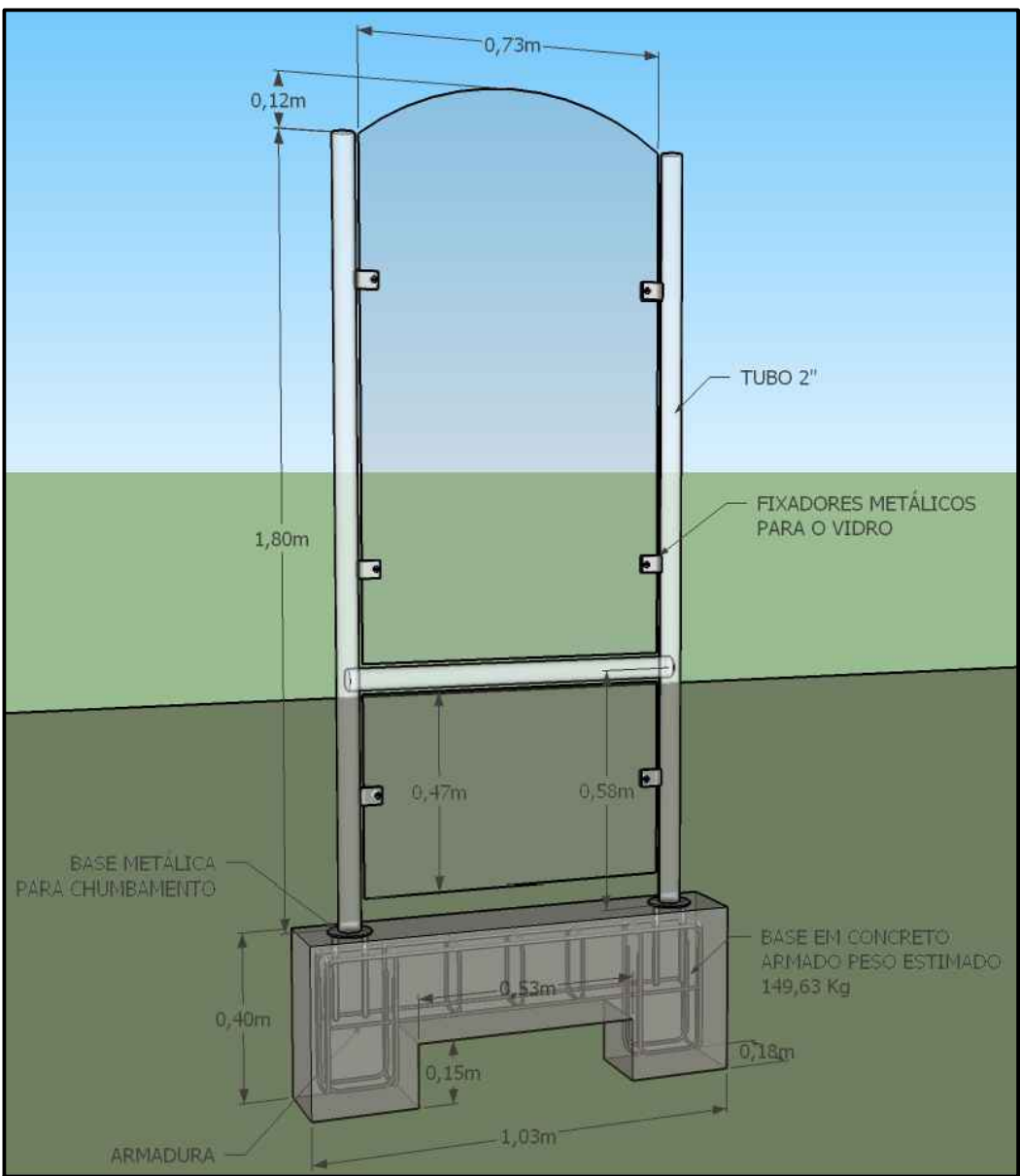
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Engenheiro Civil - CREA/SC nº 044.062-2

06

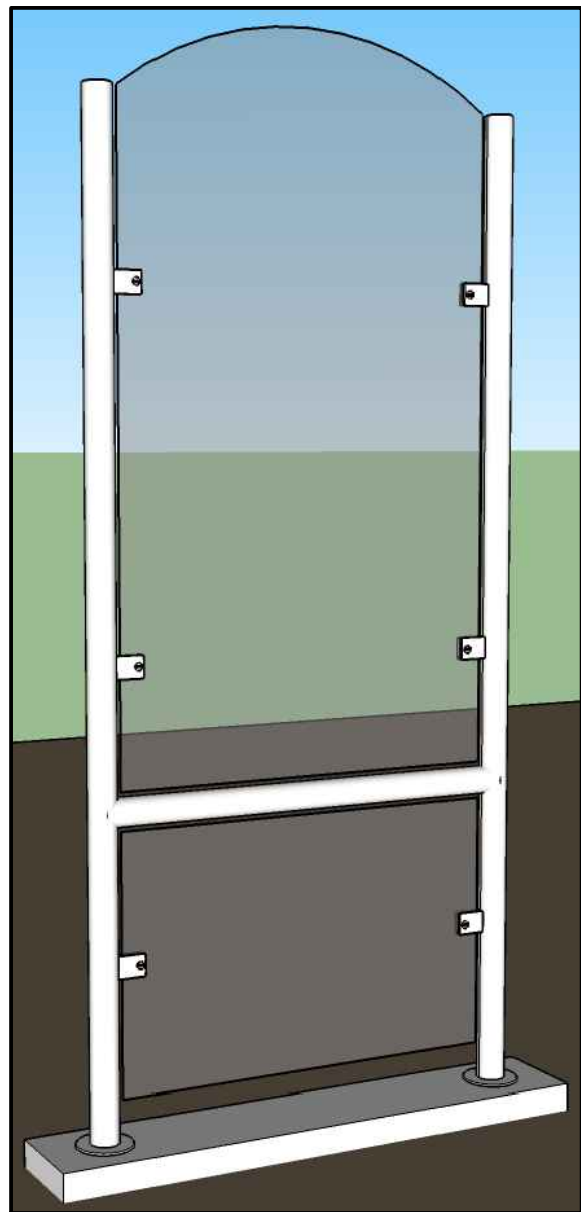
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DETALHE BASE EM CONCRETO ARMADO
SEM ESCALA

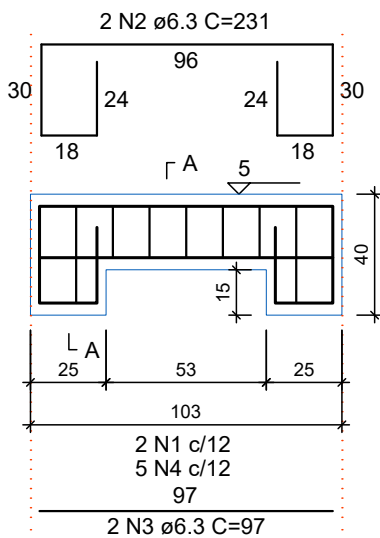


VISTA DE MONTAGEM DO TOTEM
SEM ESCALA

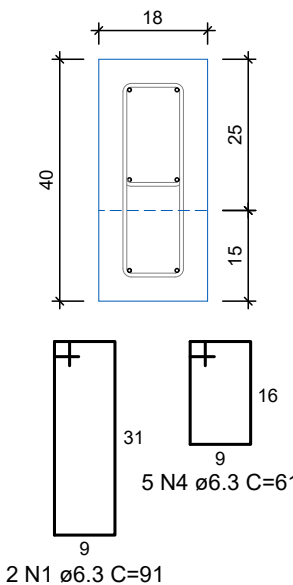


VISTA DO TOTEM
SEM ESCALA

BASE
ESC: 1:25



SEÇÃO A-A
ESC: 1:12.5



RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 5% (Barras)	UNIT	PESO + 5% (kg)
CA50	6.3	11.4	1	12 m	3.1
PESO TOTAL (kg)					
CA50	3.1				

Volume de concreto (C-25) = 0.06 m³
Área de forma = 1.16 m²



Prefeitura Municipal de Tubarão
Secretaria de Urbanismo

PROJETO ESTRUTURAL

OBJETO: PARQUE CULTURAL - BASE PARA O TOTEM

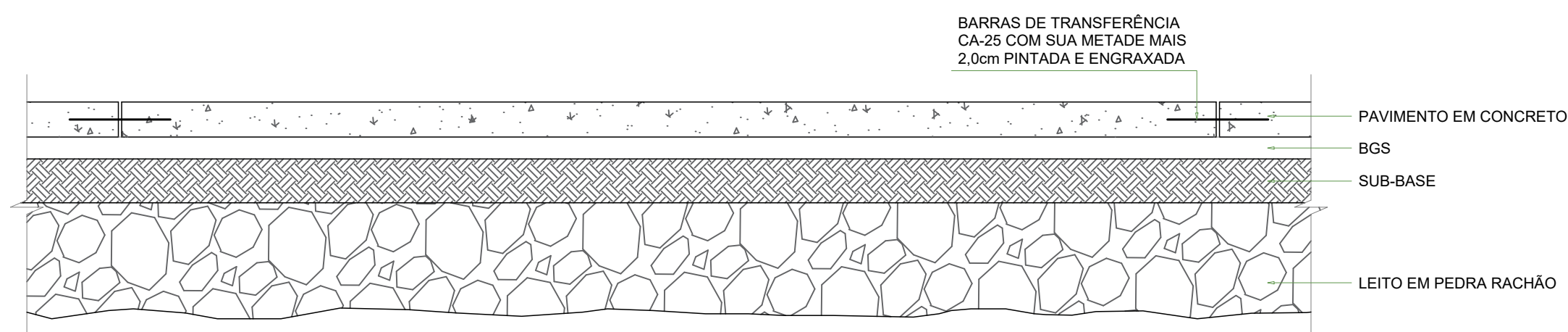
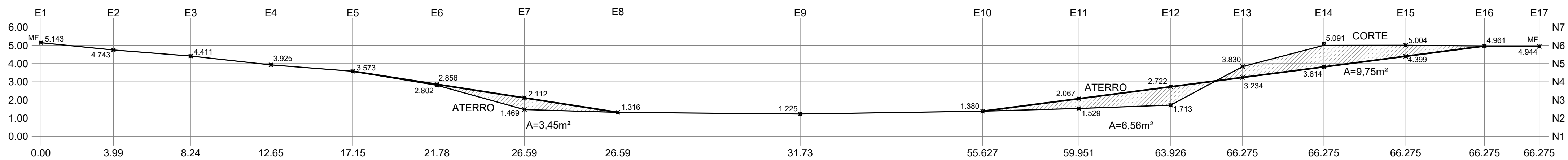
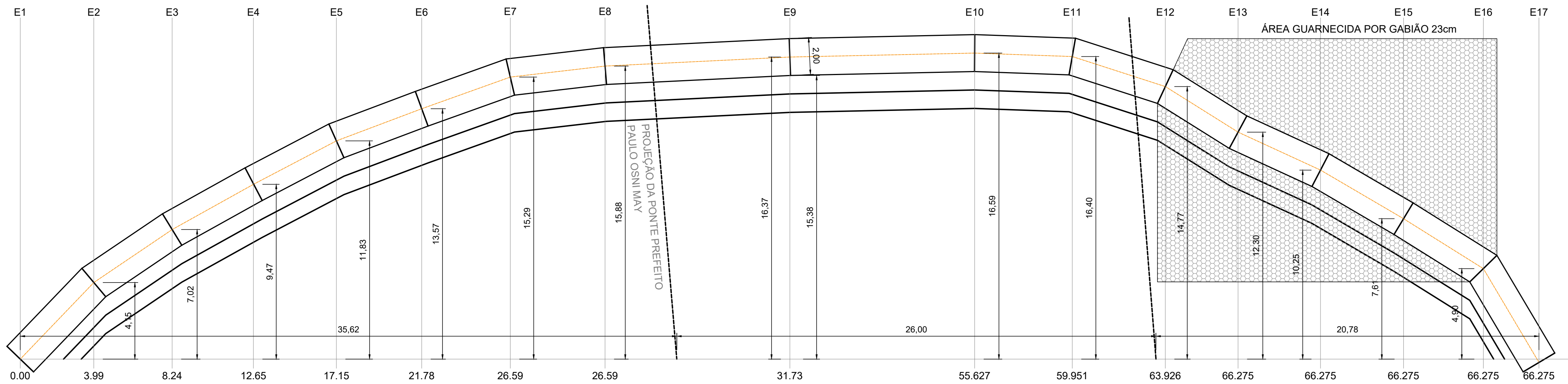
ENDEREÇO: Trecho entre Ruas Tubalcain Faraco e Professora Eugênia dos Reis Perito - Tubarão/SC

ASSUNTO: GEOMETRIA, DETALHAMENTO DA ARMADURA E VISTAS

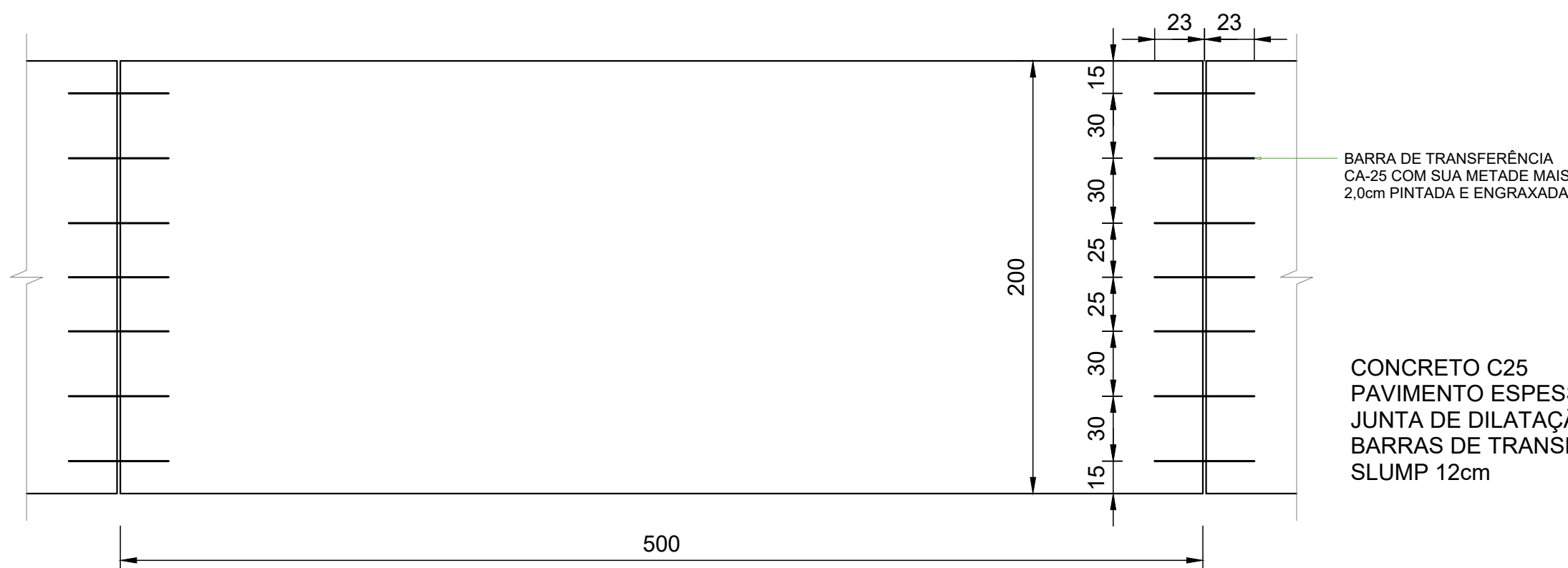
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RICHARD R. ALEXANDRE
Engenheiro Civil - CREA/SC nº 044.062-2

ESCALA: Indicada
DATA: Nov/2021
ARQUIVO: Detalhe Base Totem de Vidro.dwg

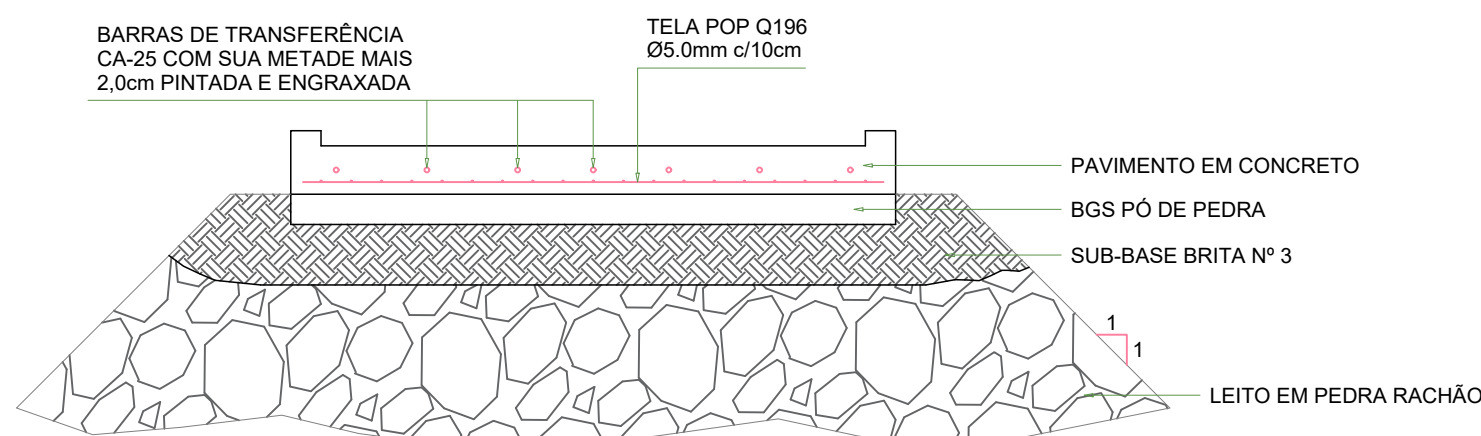
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08



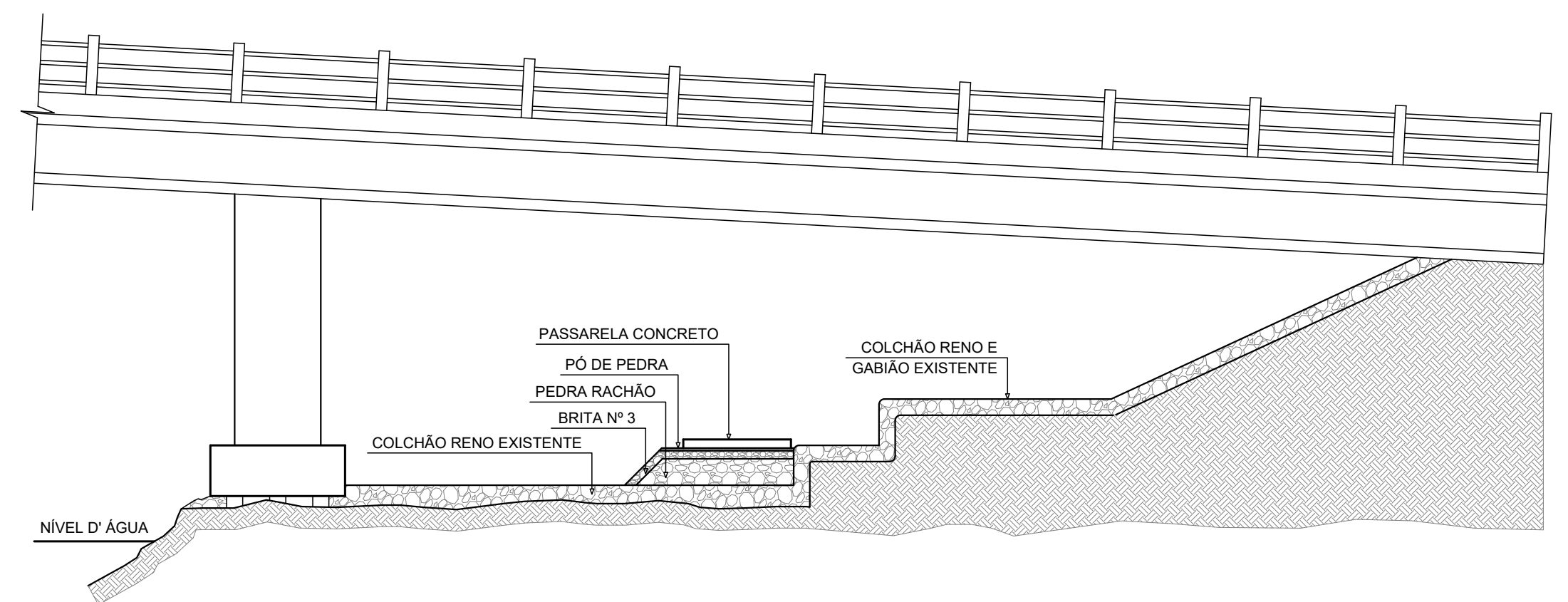
CORTE LONGITUDINAL
ESCALA: 1/25



PLANTA BAIXA PAVIMENTO CONCRETO ARMADO
ESCALA: 1/25



CORTE TRANSVERSAL
ESCALA: 1/25



CORTE TRANSVERSAL SOB A PONTE
ESCALA: 1/25

		Prefeitura Municipal de Tubarão Secretaria de Urbanismo	
PROJETO DE PAVIMENTAÇÃO			
OBJETO: PARQUE CULTURAL - PASSAGEM MOLHADA		ENDEREÇO: Trecho entre Ruas Tubalcaim Faraco e Professora Eugênia dos Reis Perito - Tubarão/SC	
ASSUNTO: PERFIL LONGITUDINAL E DETALHES		RESP. TÉCNICO: RICHARD RODRIGUES ALEXANDRE-8894536 7934 RICHARD RODRIGUES ALEXANDRE Engenheiro Civil - CRE/SC nº 044.062-2	
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