

**PROJECTO DE EXECUÇÃO**

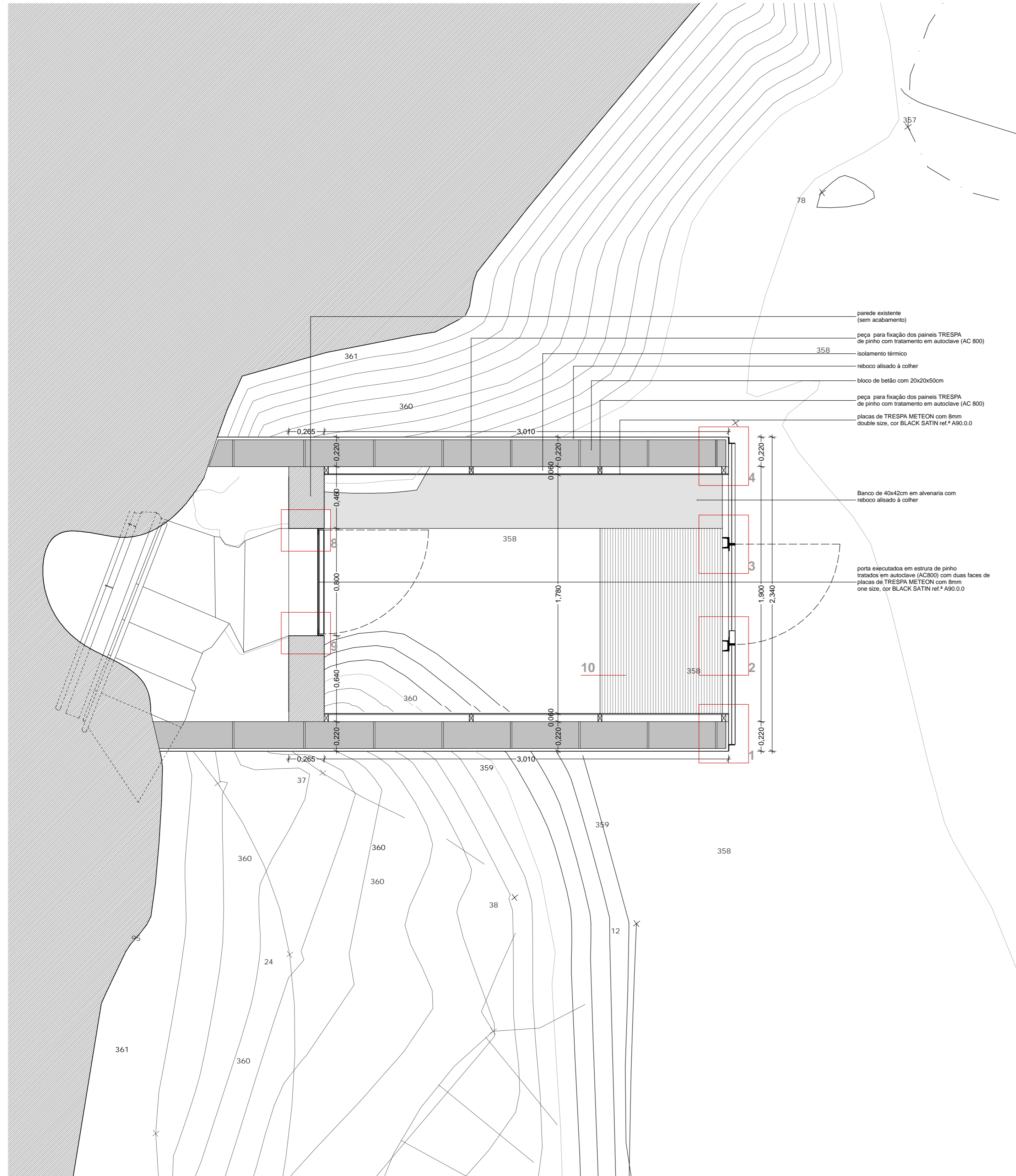
**GRUTA DO ESCOURAL**  
 ANTECÂMARA E ESTRUTURA DE VISITA INTERNA

**01**

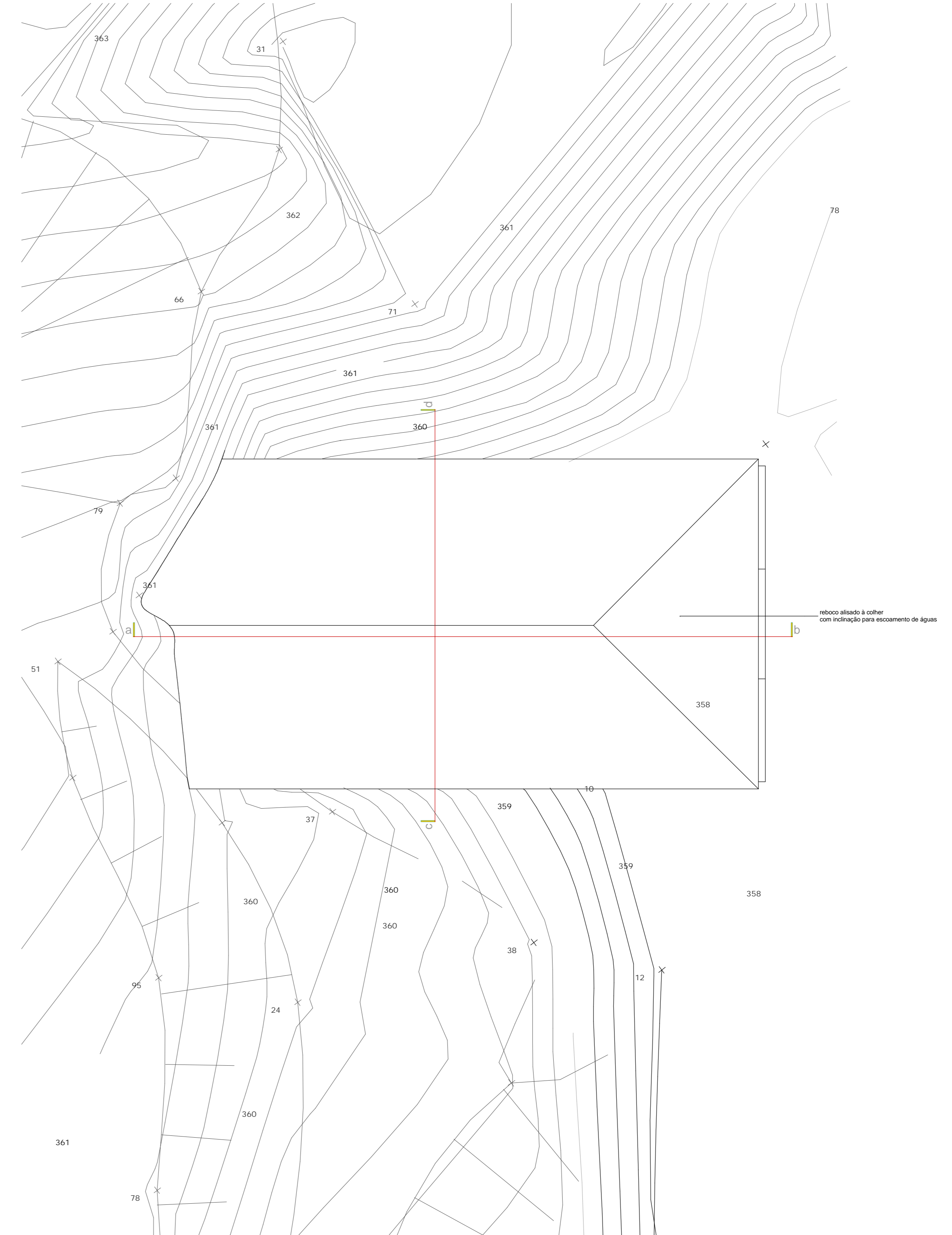
Requerente: Direcção Regional de Cultura do Alentejo, Ministério da Cultura

**DNSJ.arq**  
 Nuno Simões  
 Arq. insc. n.º 2532  
 Gonçalo Nicolau

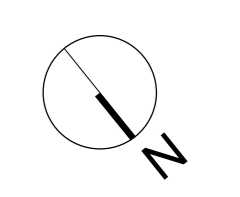
planta de localização

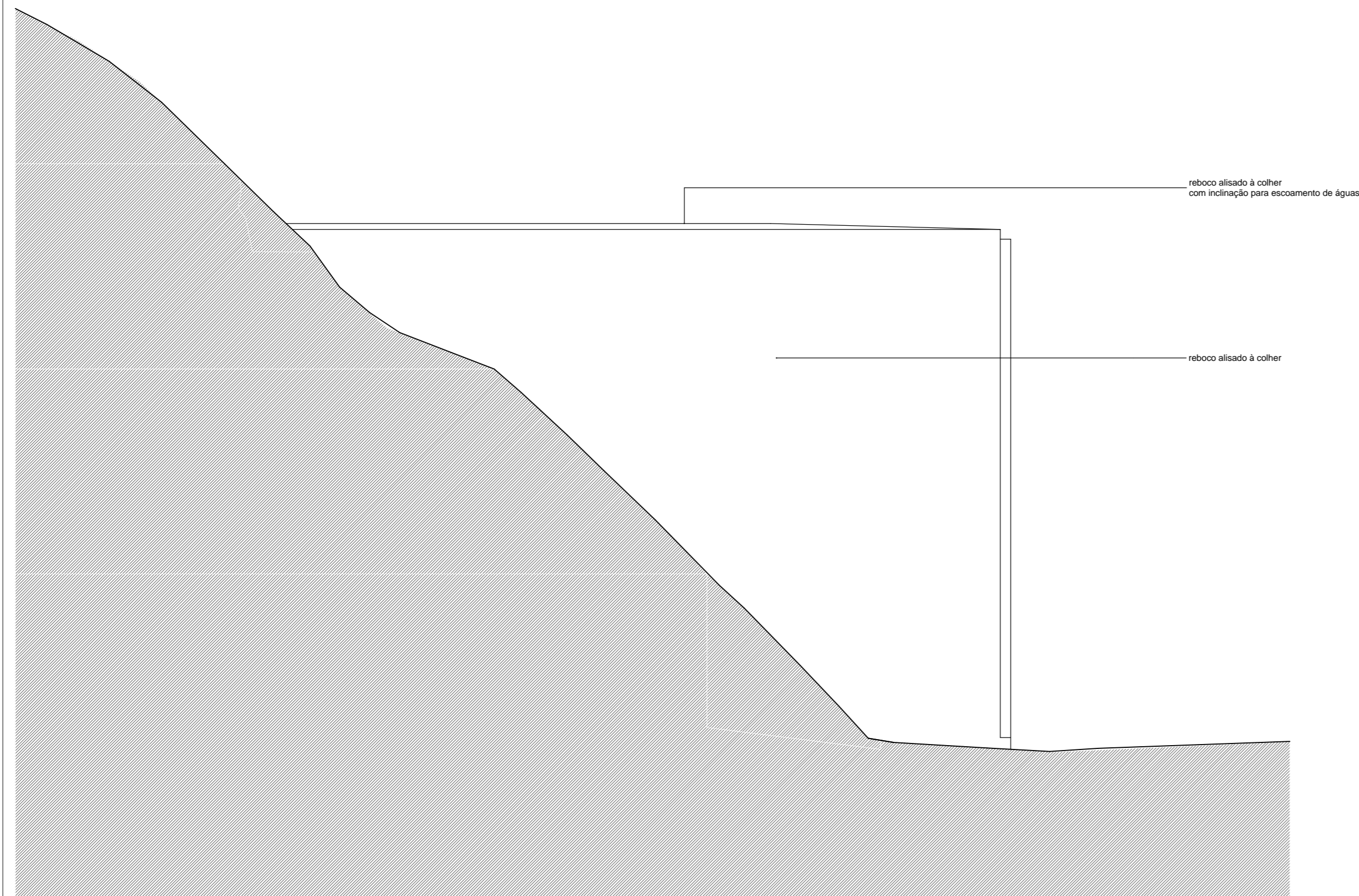


planta

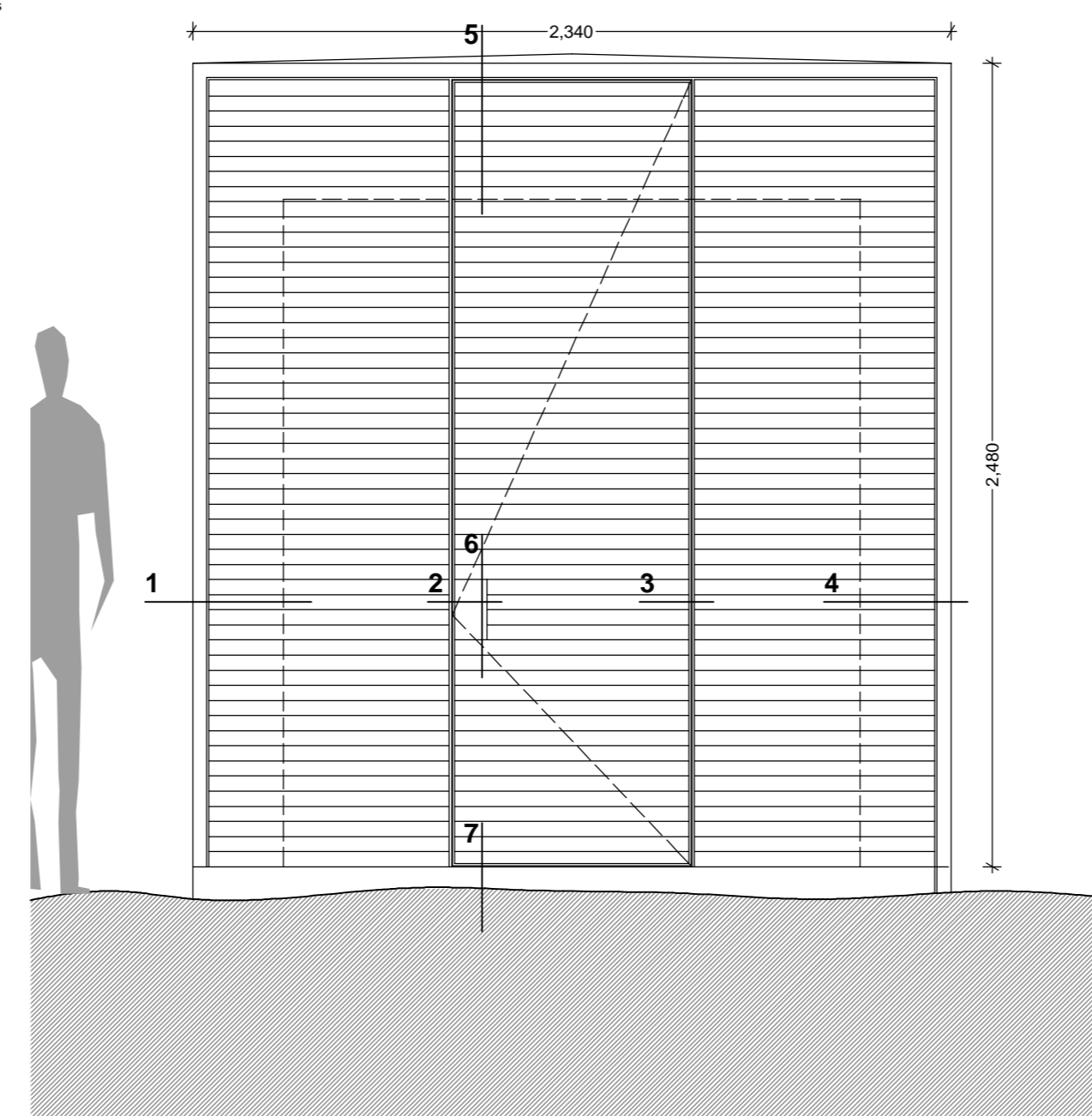


planta de coberturas

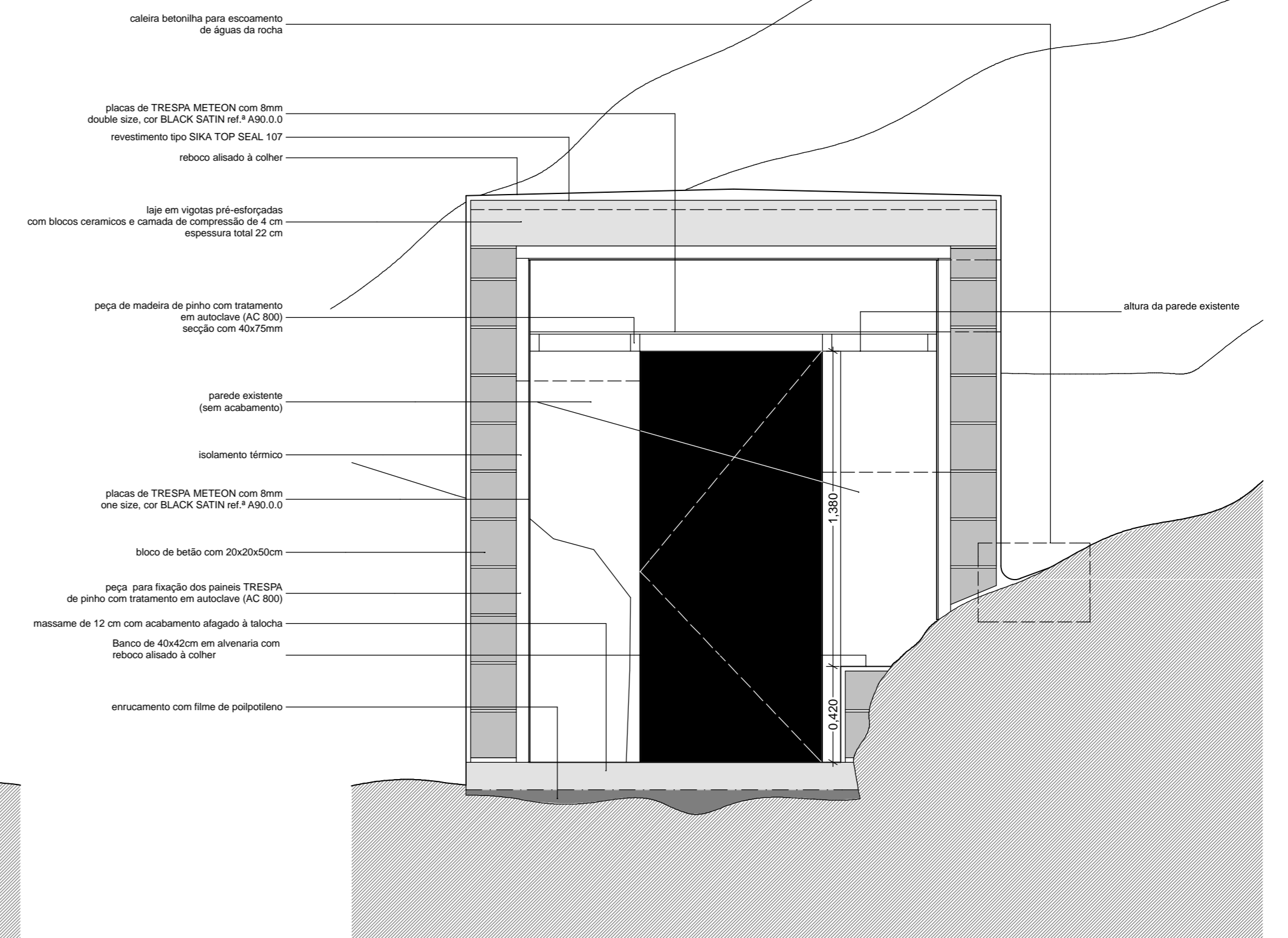




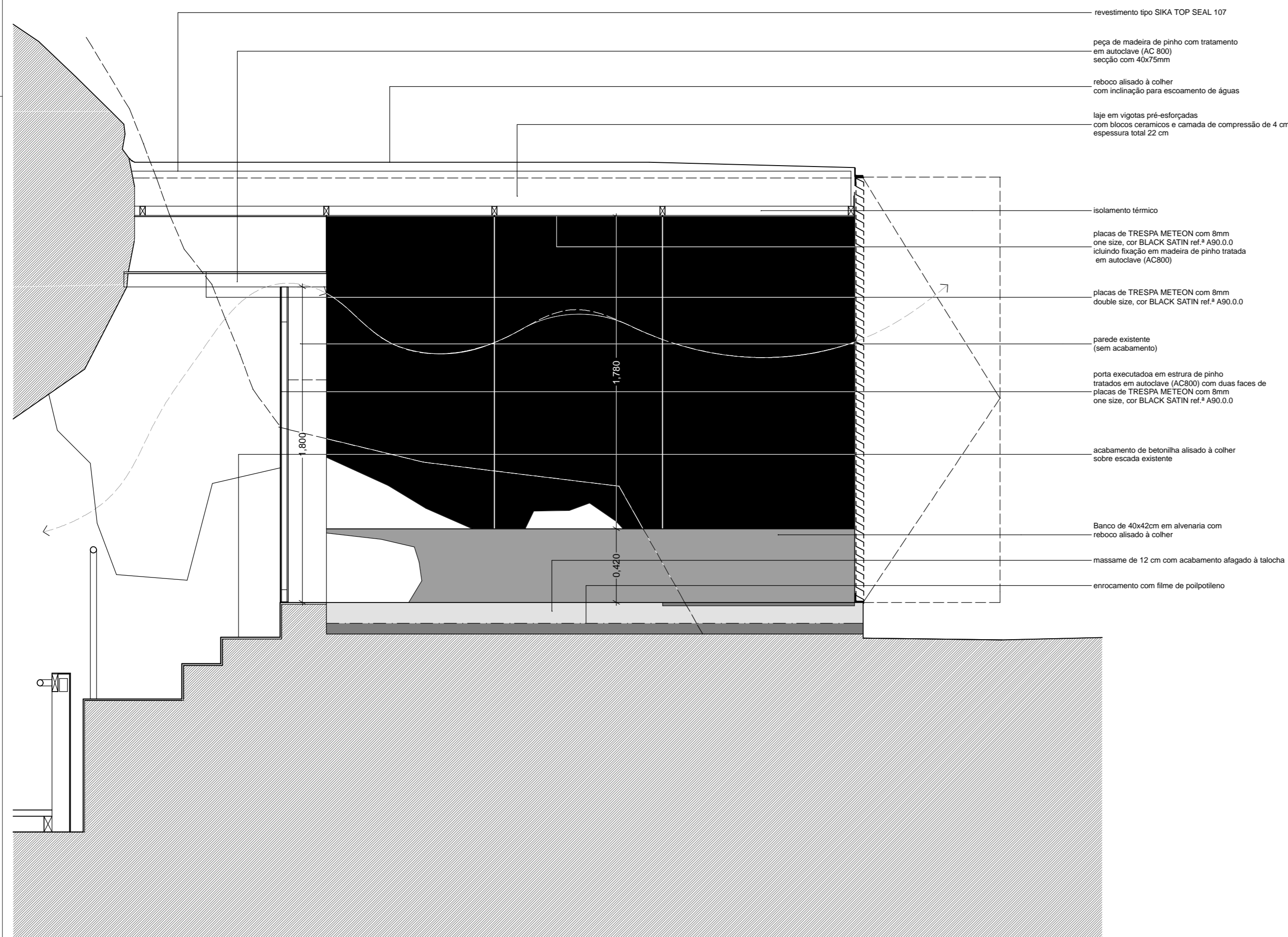
alçado norte



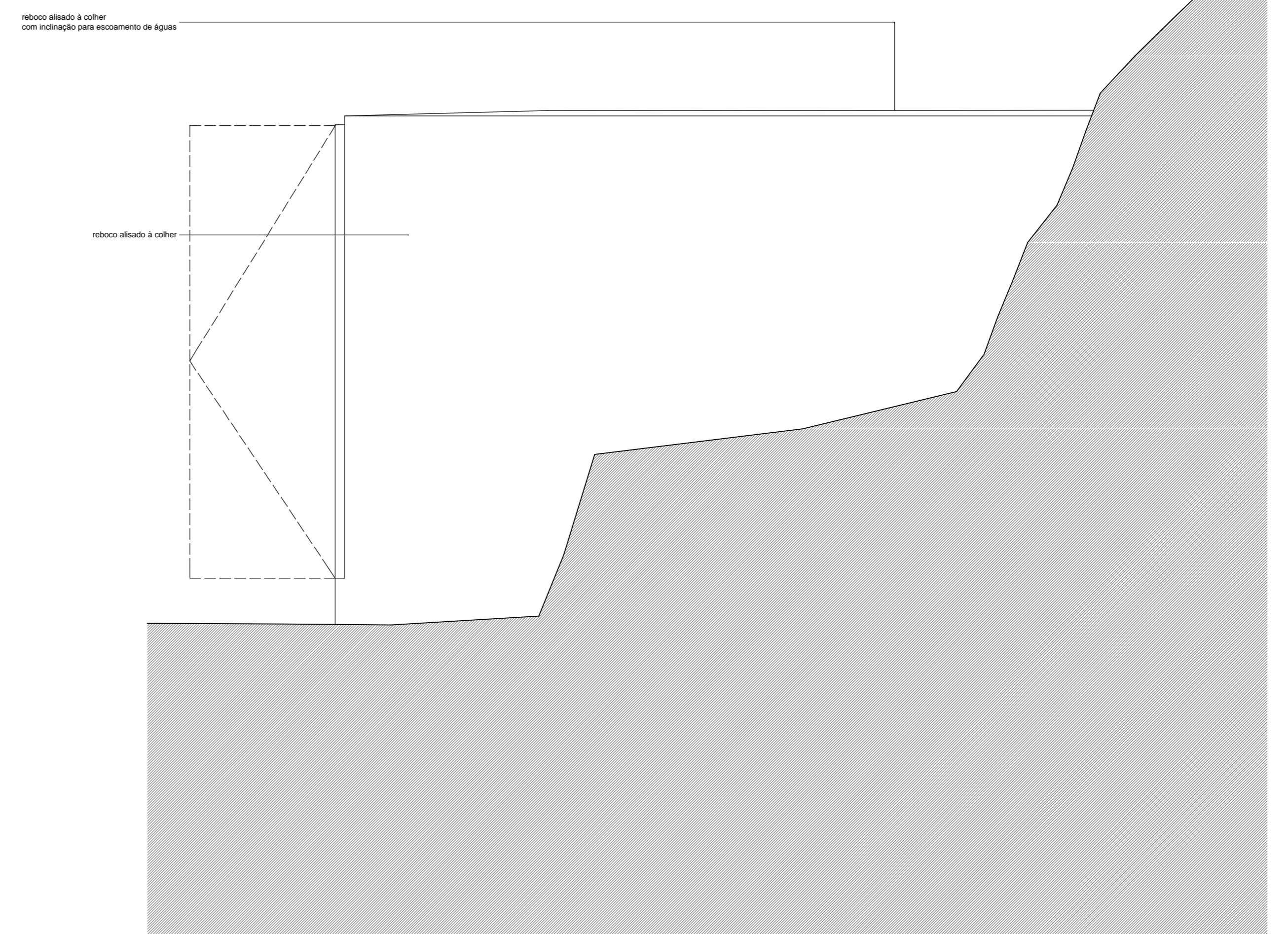
alçado oeste



corte CD



corte AB



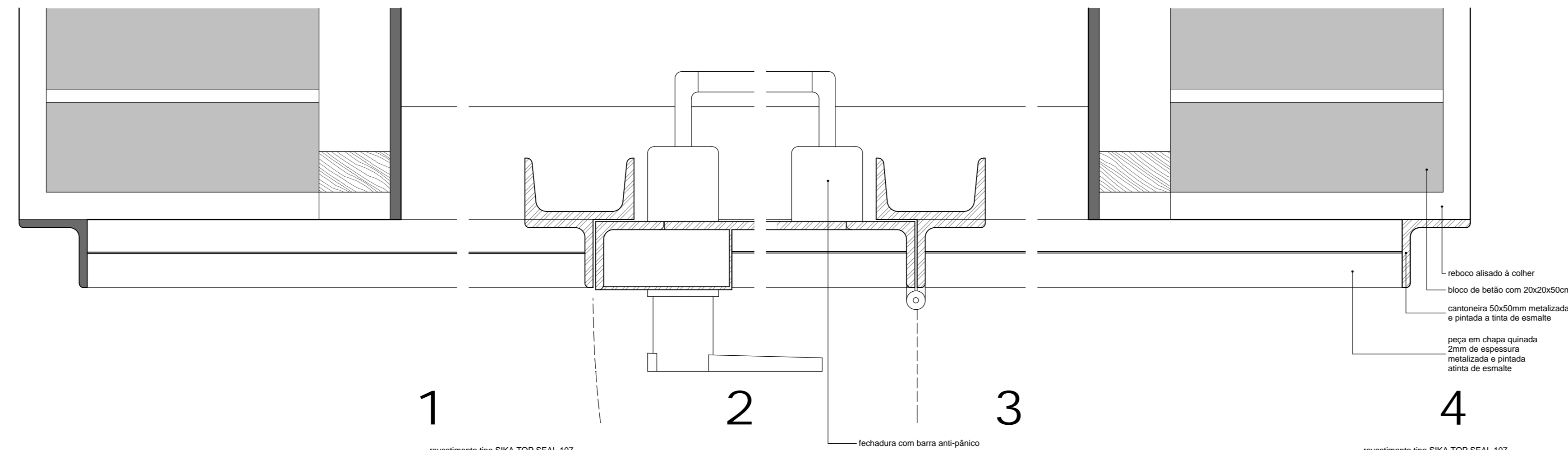
alçado sul

- caldeira betonilha para escoamento de águas da rocha
- placas de TRESPA METEON com firm double size, cor BLACK SATIN ref.º A90.0.0
- revestimento tipo SIKR TOP SEAL 107
- reboco alisado à colher
- laje em vigotas pré-tensionadas com blocos cerâmicos e camada de compressão de 4 cm espessura total 22 cm
- peça de madeira de pinho com tratamento em autoclave (AC 800) secção com 40x75mm
- altura da parede existente
- parede existente (sem acabamento)
- isolamento térmico
- placas de TRESPA METEON com firm one size, cor BLACK SATIN ref.º A90.0.0
- bloco de betão com 20x20x50cm
- peça para fixação dos painéis TRESPA de pinho com tratamento em autoclave (AC 800)
- massame de 12 cm com acabamento atagado à talocha
- Barco de 40x42cm em alvenaria com reboco alisado à colher
- enrocamento com firme de polipóteno

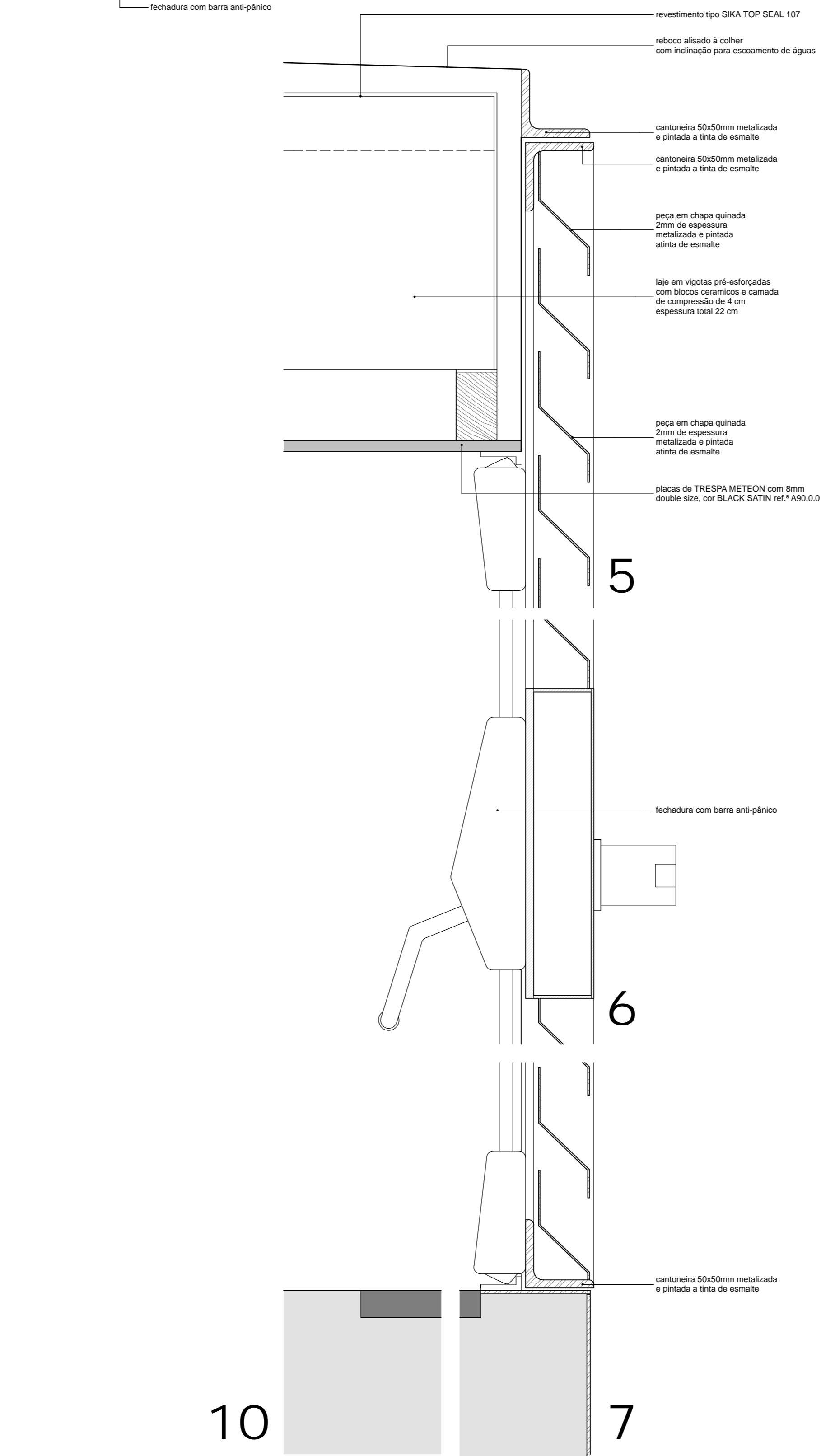
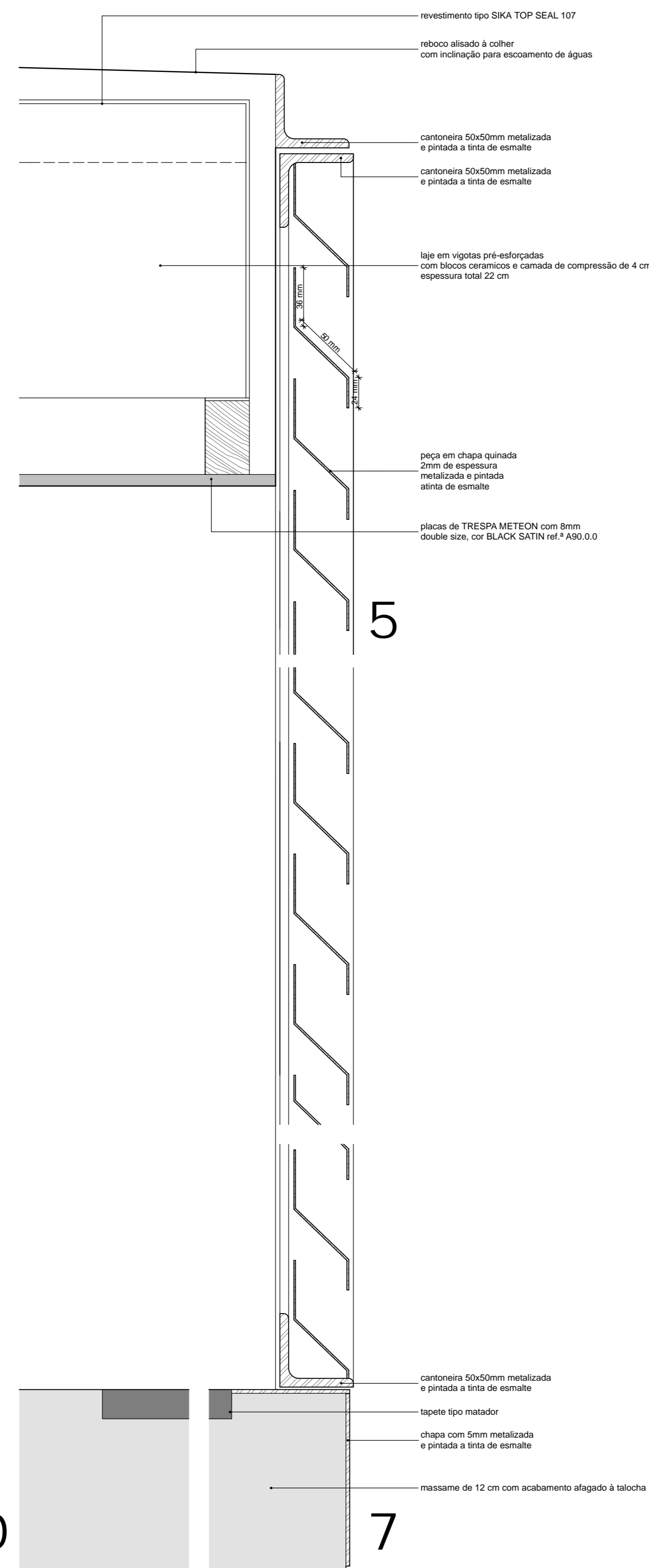
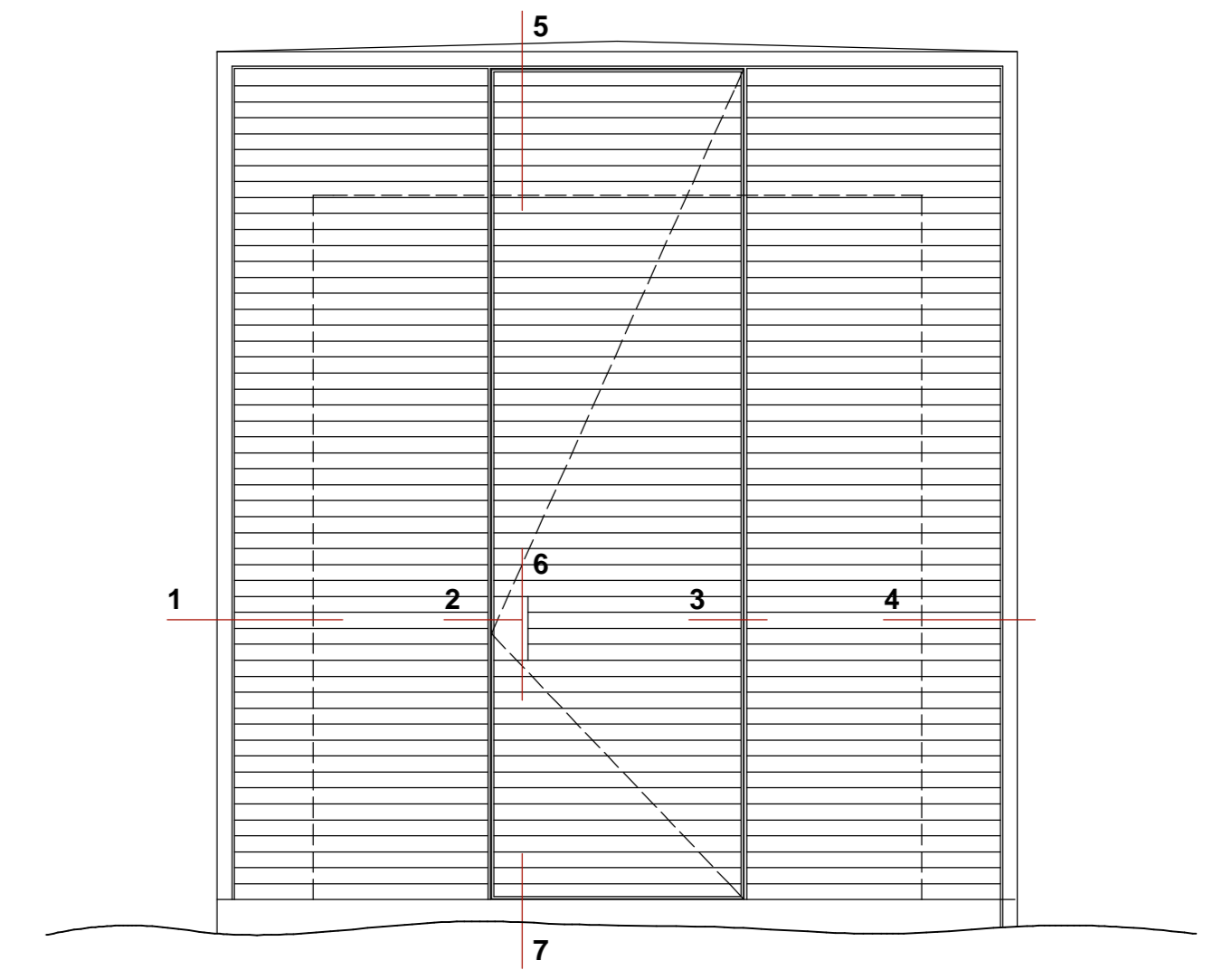
- revestimento tipo SIKR TOP SEAL 107
- peça de madeira de pinho com tratamento em autoclave (AC 800) secção com 40x75mm
- reboco alisado à colher com inclinação para escoamento de águas
- laje em vigotas pré-tensionadas com blocos cerâmicos e camada de compressão de 4 cm espessura total 22 cm
- isolamento térmico
- placas de TRESPA METEON com firm one size, cor BLACK SATIN ref.º A90.0.0 alçando fixação em madeira de pinho tratada em autoclave (AC 800)
- placas de TRESPA METEON com firm double size, cor BLACK SATIN ref.º A90.0.0
- parede existente (sem acabamento)
- porta associativa em estrutura de pinho tratados em autoclave (AC 800) com duas faces de placas de TRESPA METEON com firm one size, cor BLACK SATIN ref.º A90.0.0
- acabamento de betonilha alisado à colher sobre escada existente
- Barco de 40x42cm em alvenaria com reboco alisado à colher
- massame de 12 cm com acabamento atagado à talocha
- enrocamento com firme de polipóteno

- reboco alisado à colher com inclinação para escoamento de águas
- reboco alisado à colher

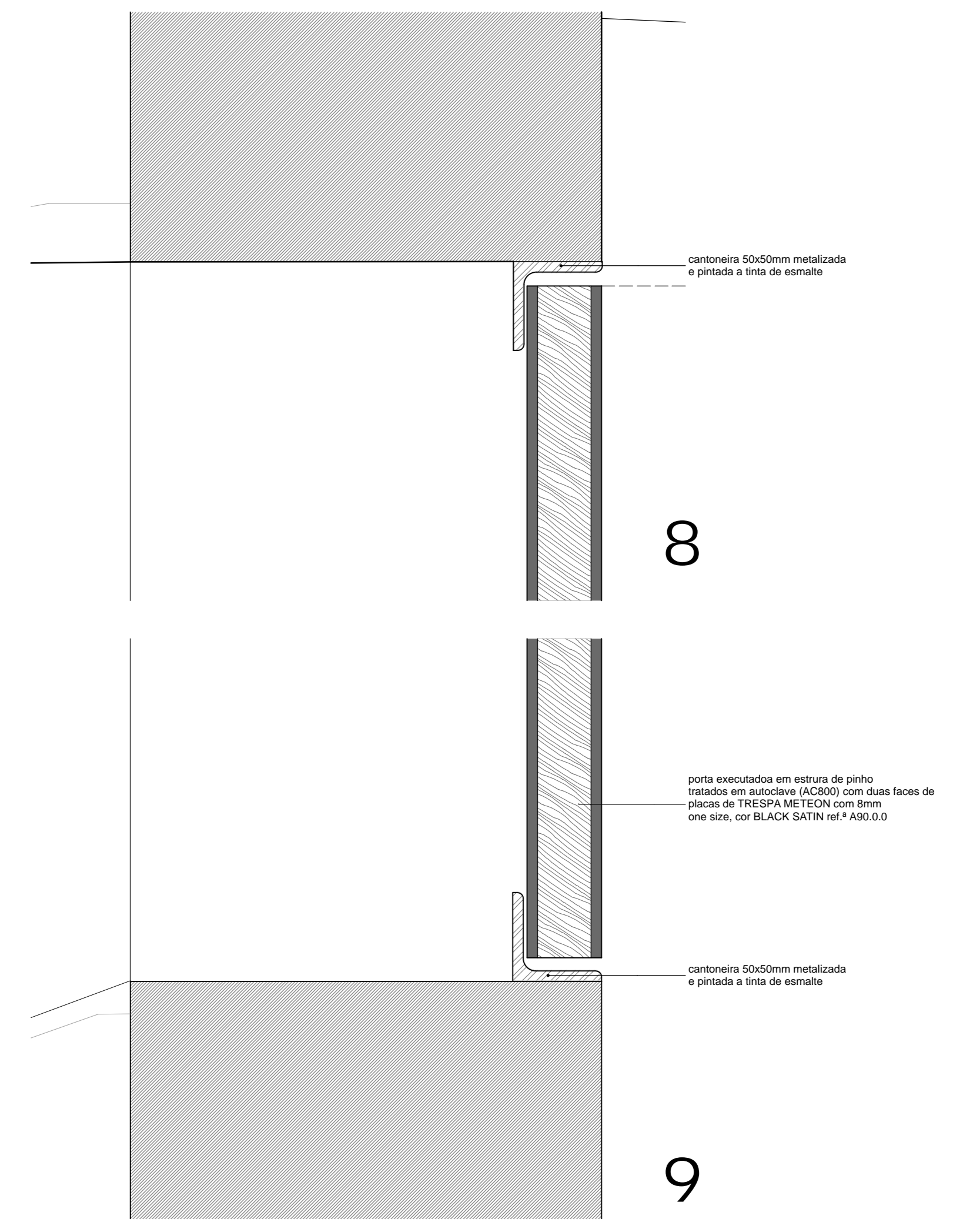
### Pormenor da grelha com porta de entrada na antecâmara



- ARO**  
- em perfis metálicos metalizados e pintados a tinta de esmalte.
- FOLHA**  
- estrutura em perfis metálicos preenchidos com lâmina de chapa quinada, metalizado e pintado a tinta de esmalte.
- dobradiças e corredeiras executadas em peças metálicas metalizadas pintadas a tinta de esmalte.
- fechadura tipo "Hebelzylinder, Cam lock, Serrure batteuse, Type Z25-08-1" ou equivalente montada em caixa executada em chapa com puxador em varão de ferro metalizado e pintado a tinta de esmalte.



### Pormenor da porta de entrada na gruta



GRUTA DO ESCOURAL  
ANTECÂMARA E ESTRUTURA DE VISITA INTERNA

Requerente: Direcção Regional de Cultura do Alentejo, Ministério da Cultura

DNSJ.arq

Nuno Simões  
Arq. n.º 2532

Gonçalo Nicolau

pormenores

Rua Teixeira de Passos nº 21 9.º 1700-384 Lisboa, tel/fax.: 218465555 mail: dnsj.arq@gmail.com

esc. 1/5

Setembro 2008

PROJECTO DE EXECUÇÃO

04

10

7

10

7

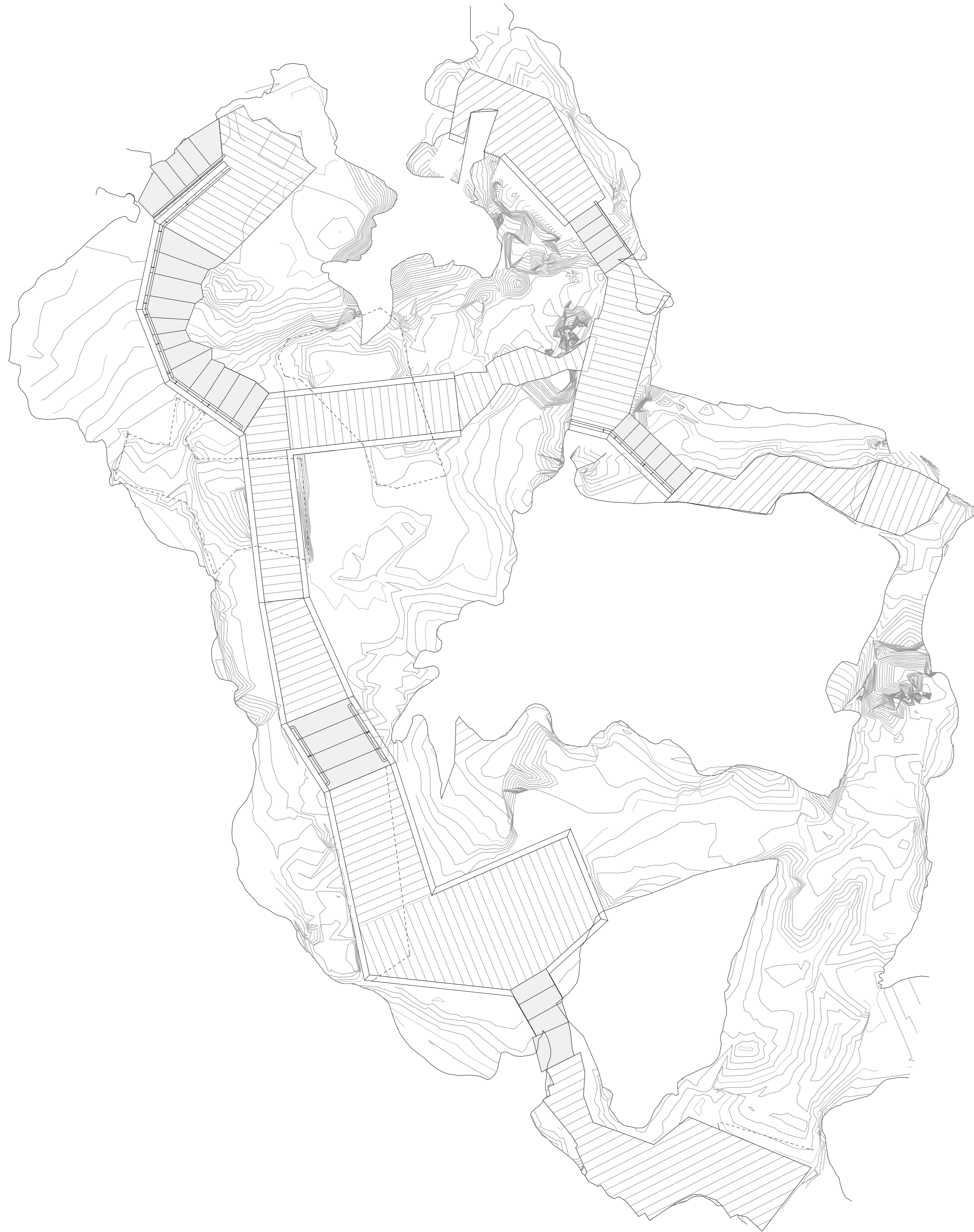
PLANTA DO LEVANTAMENTO



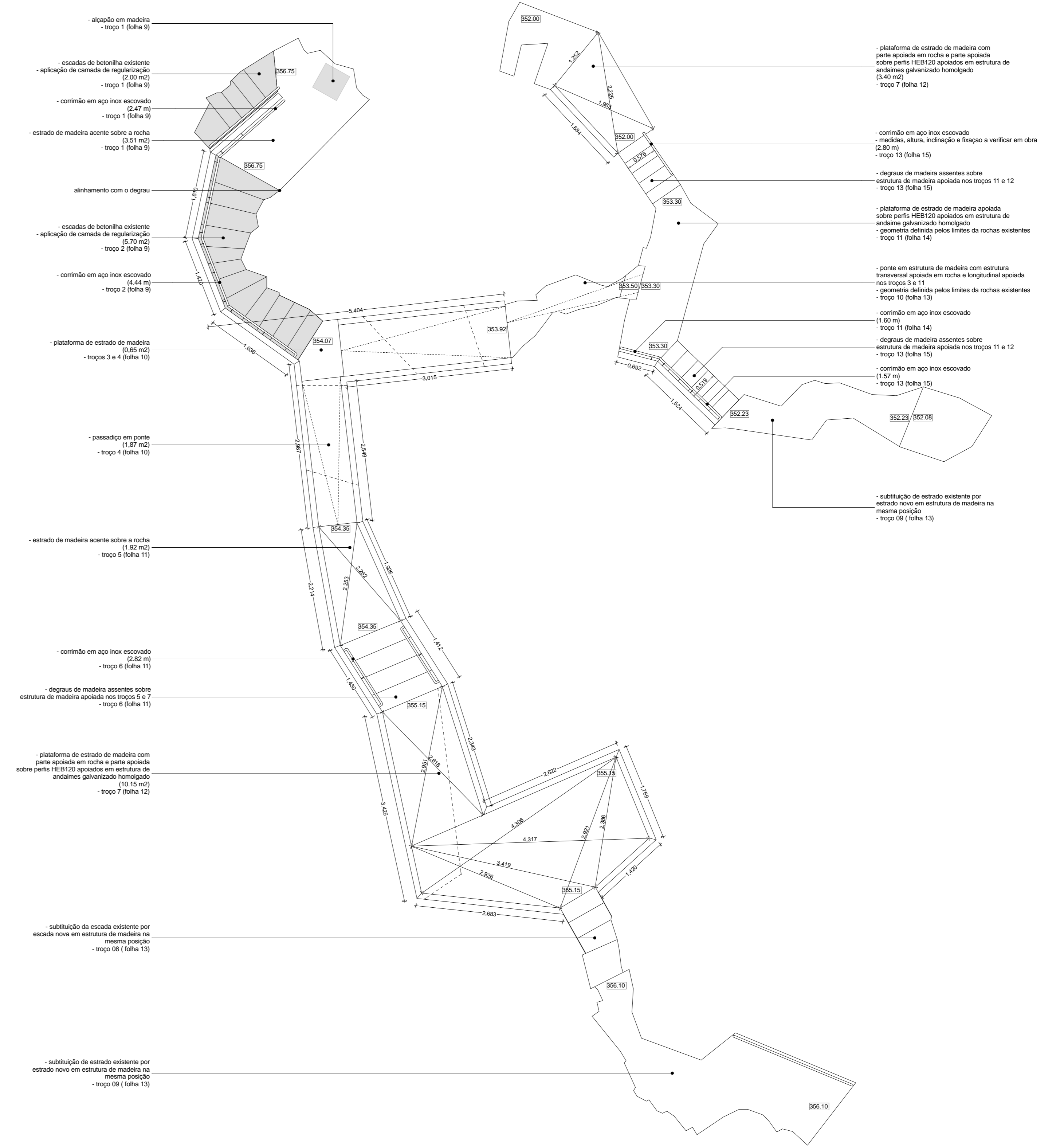
PLANTA DE ALTERAÇÕES



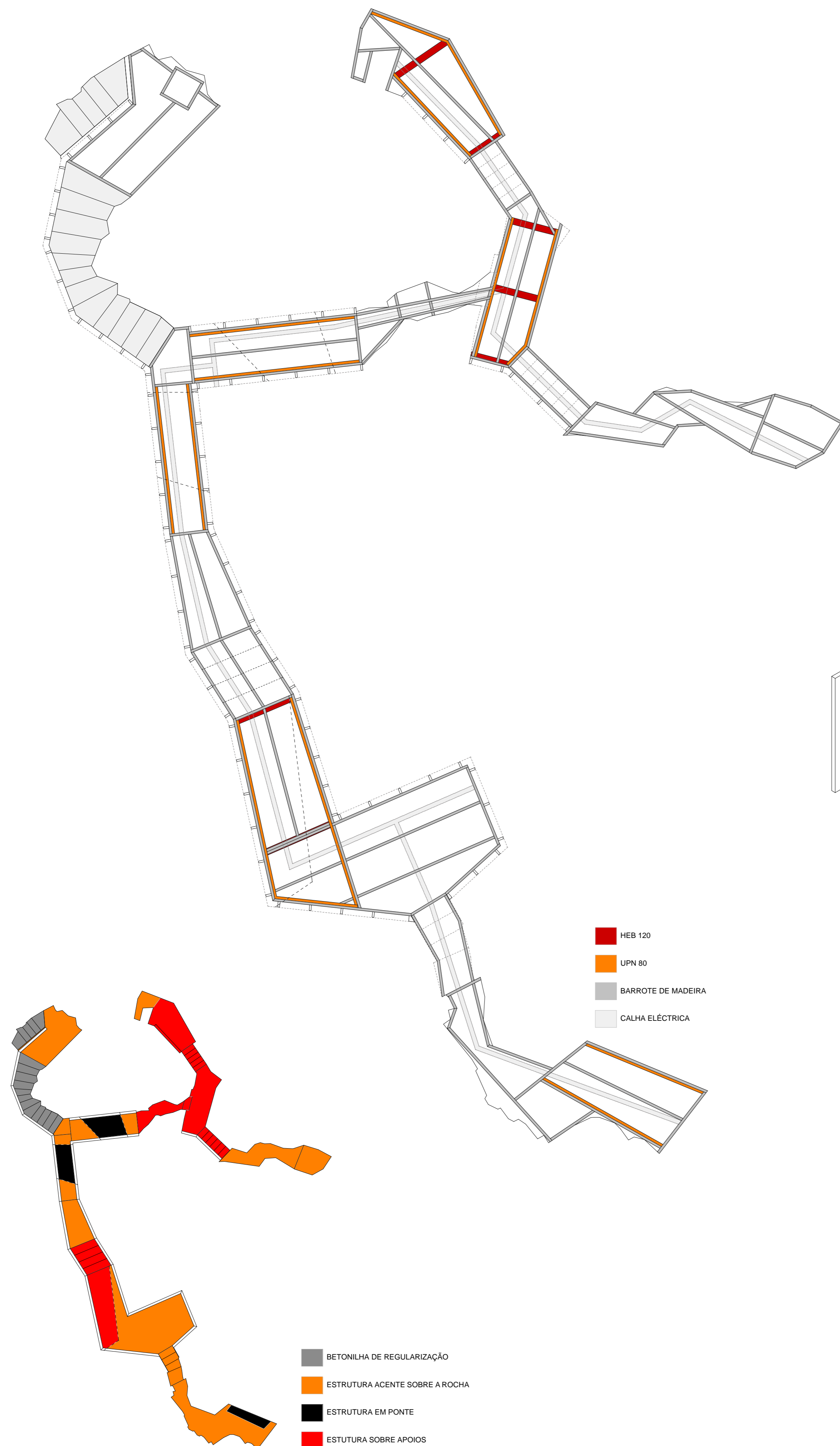
PLANTA GERAL



ESQUEMA DAS ESTRUTURAS DE VISITA

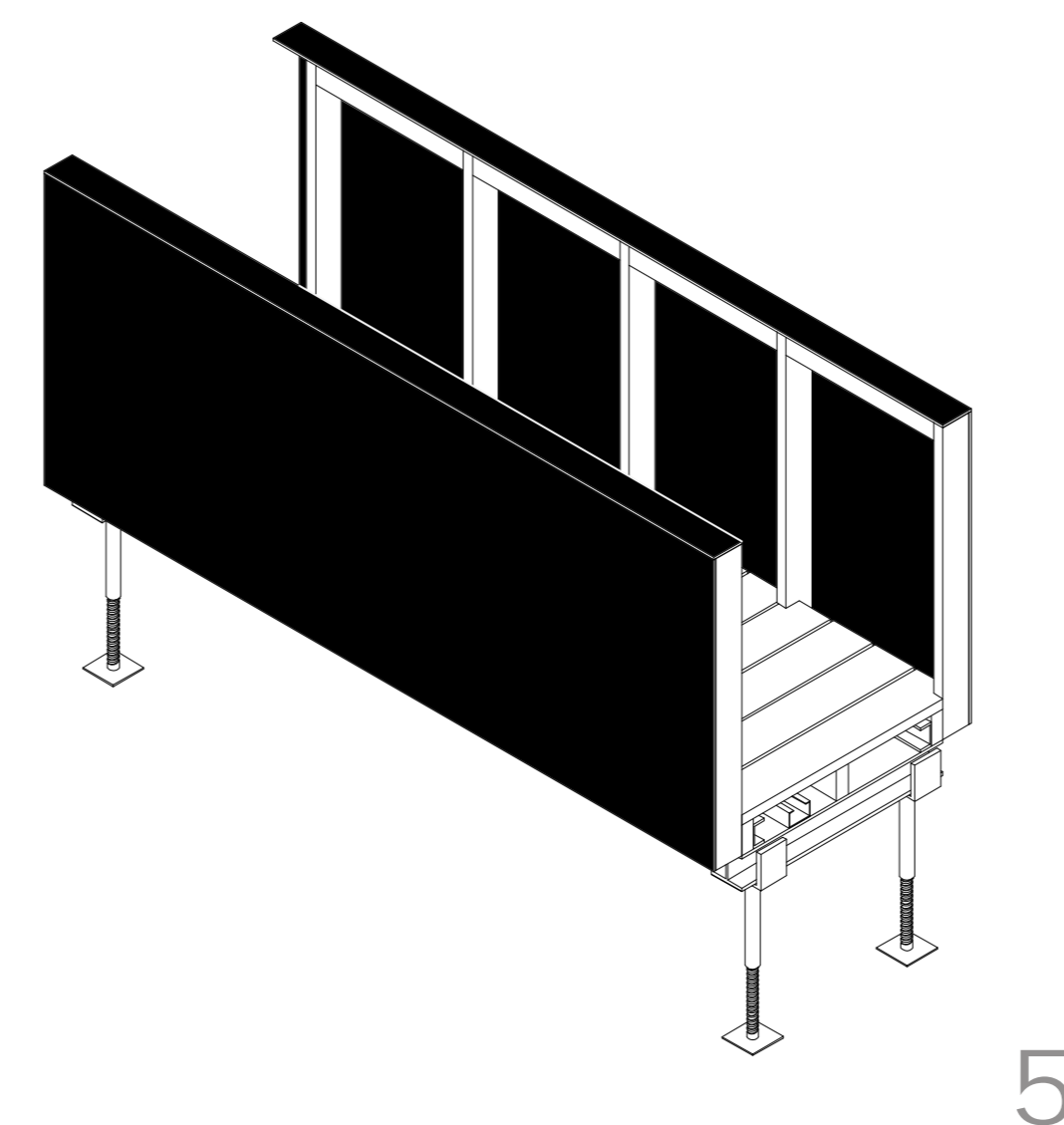
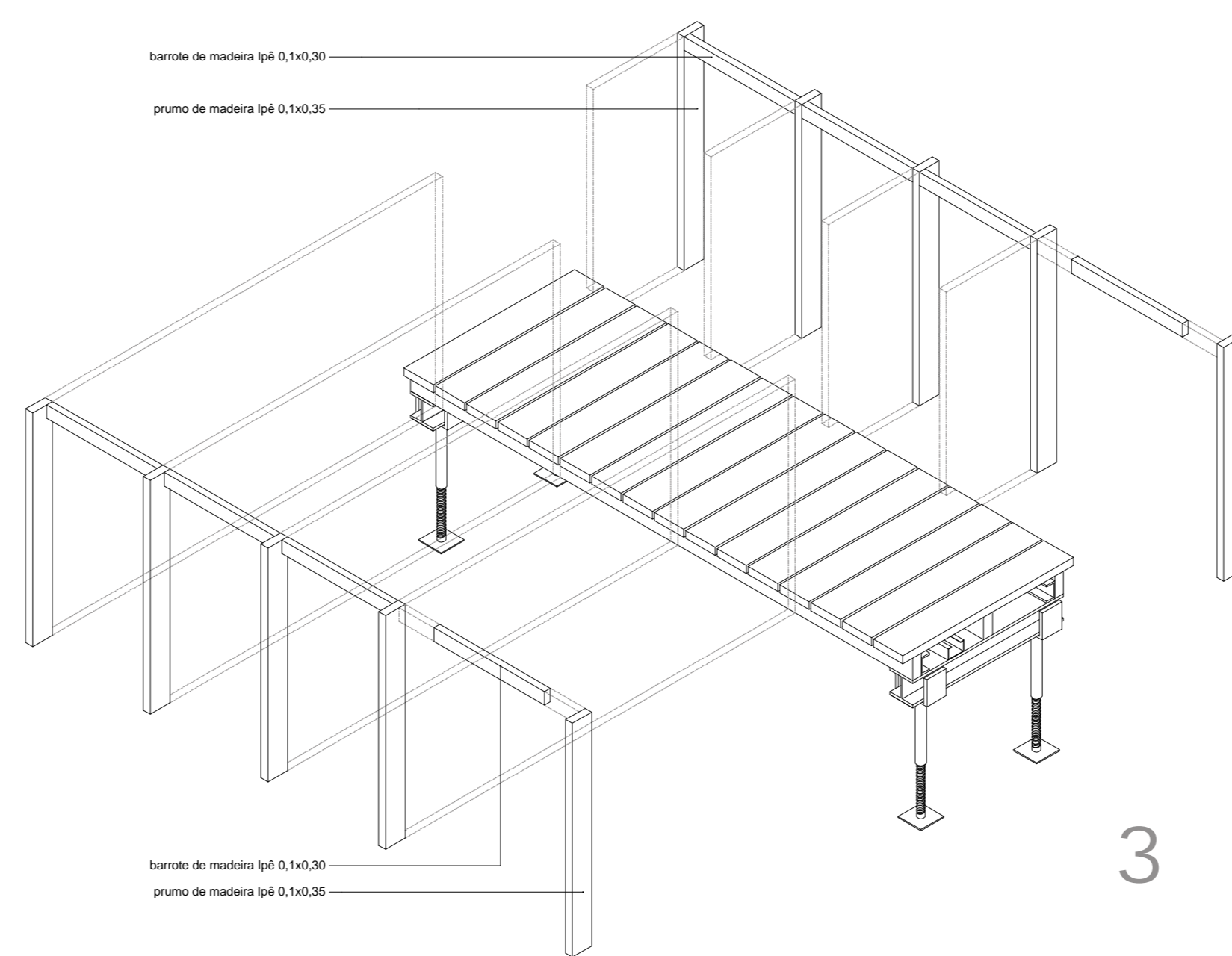
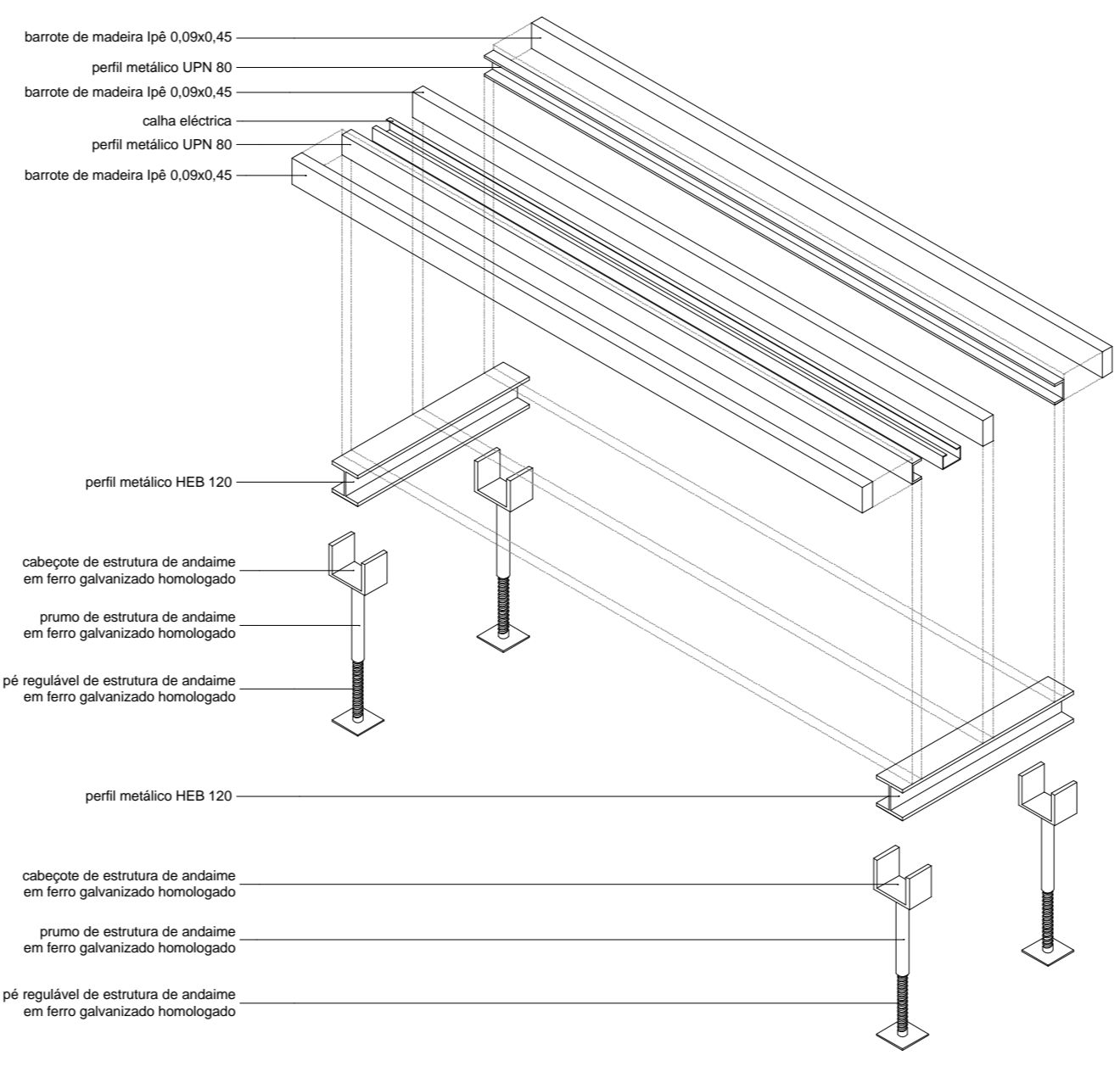


**ESQUEMA DE ESTRUTURA**

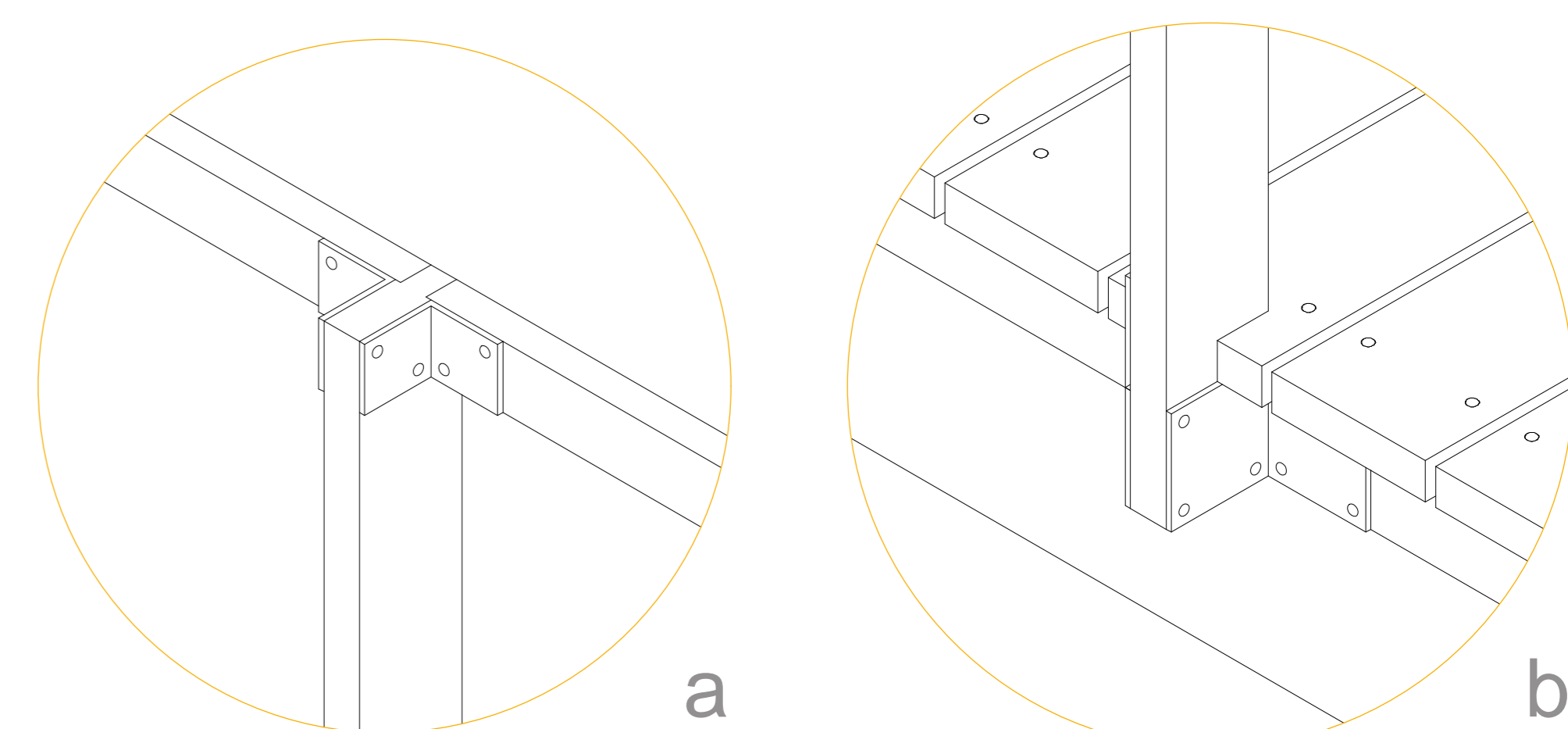
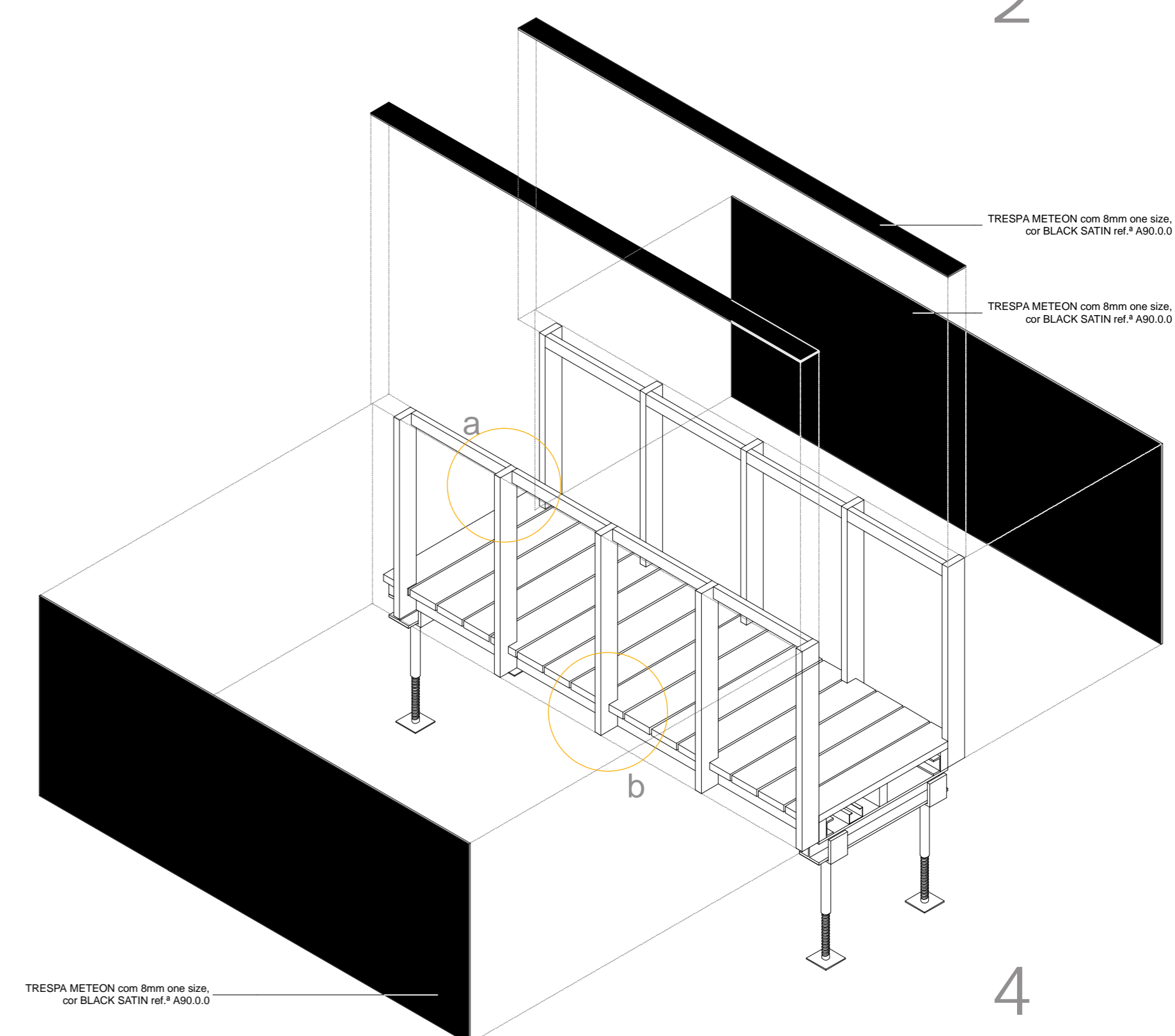
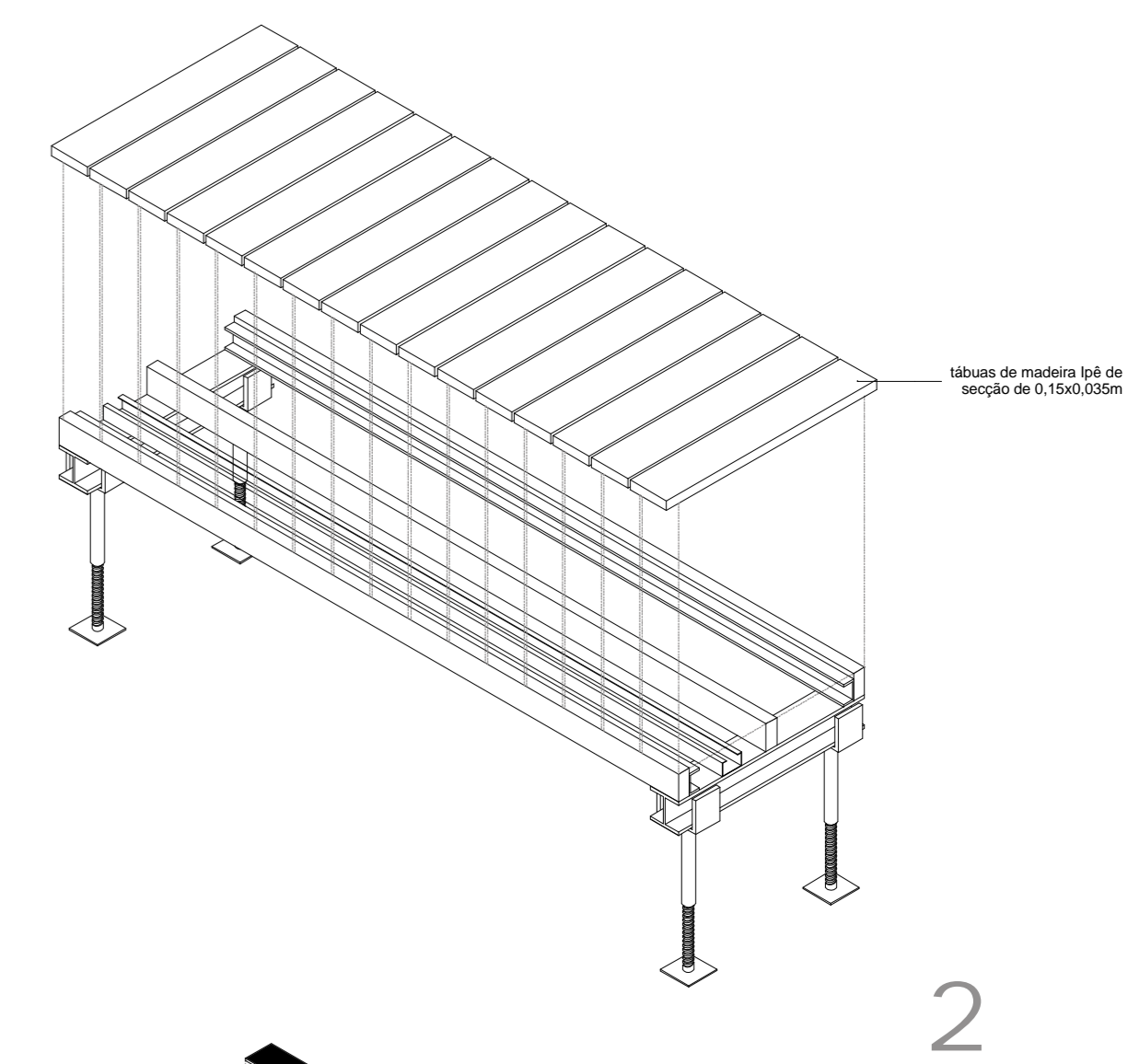


- HEB 120
- UPN 80
- BARROTE DE MADEIRA
- CALHA ELÉCTRICA

- BETONILHA DE REGULARIZAÇÃO
- ESTRUTURA ACENTE SOBRE A ROCHA
- ESTRUTURA EM PONTE
- ESTUTURA SOBRE APOIOS



**ESQUEMAS DE MONTAGEM**



NOTA: Os elementos de madeira são fixos entre si por peças de aço inoxidável em cantoneira e aparafusadas com parafusos de aço inoxidável.

HEB 120

UPN80

BARROTE MADEIRA 9X4,5 cm



- Perfis HEB 120 metalizados e pintados, apoiados em estrutura de andaime galvanizado homologado

- Perfis UPN 80 metalizados e pintados aparafusado ao perfil HEB 120

- Barrotes de madeira de Ipê (*Tabebuia spp*) com 9x4,5cm

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08

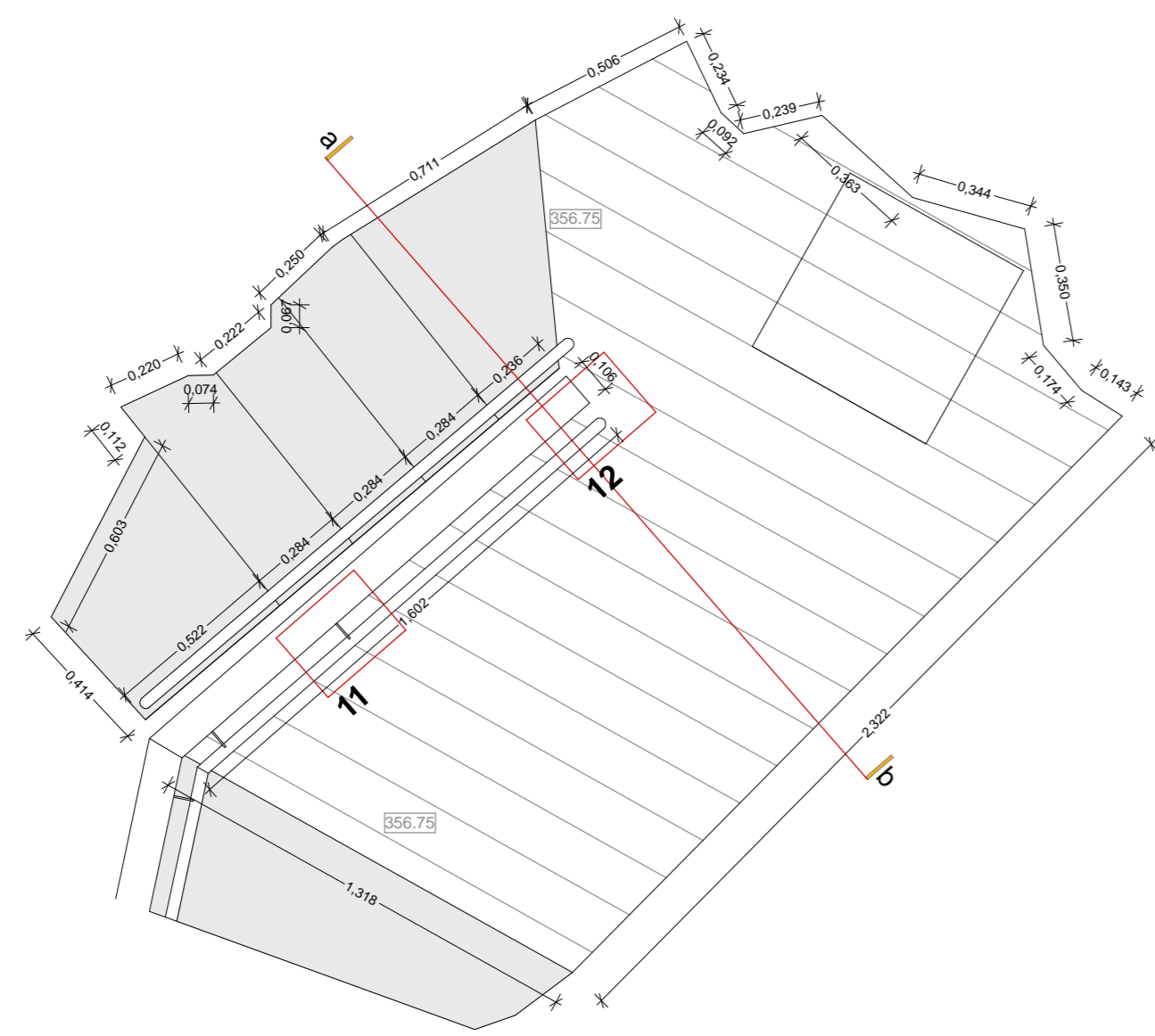
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planta dos elementos estruturais

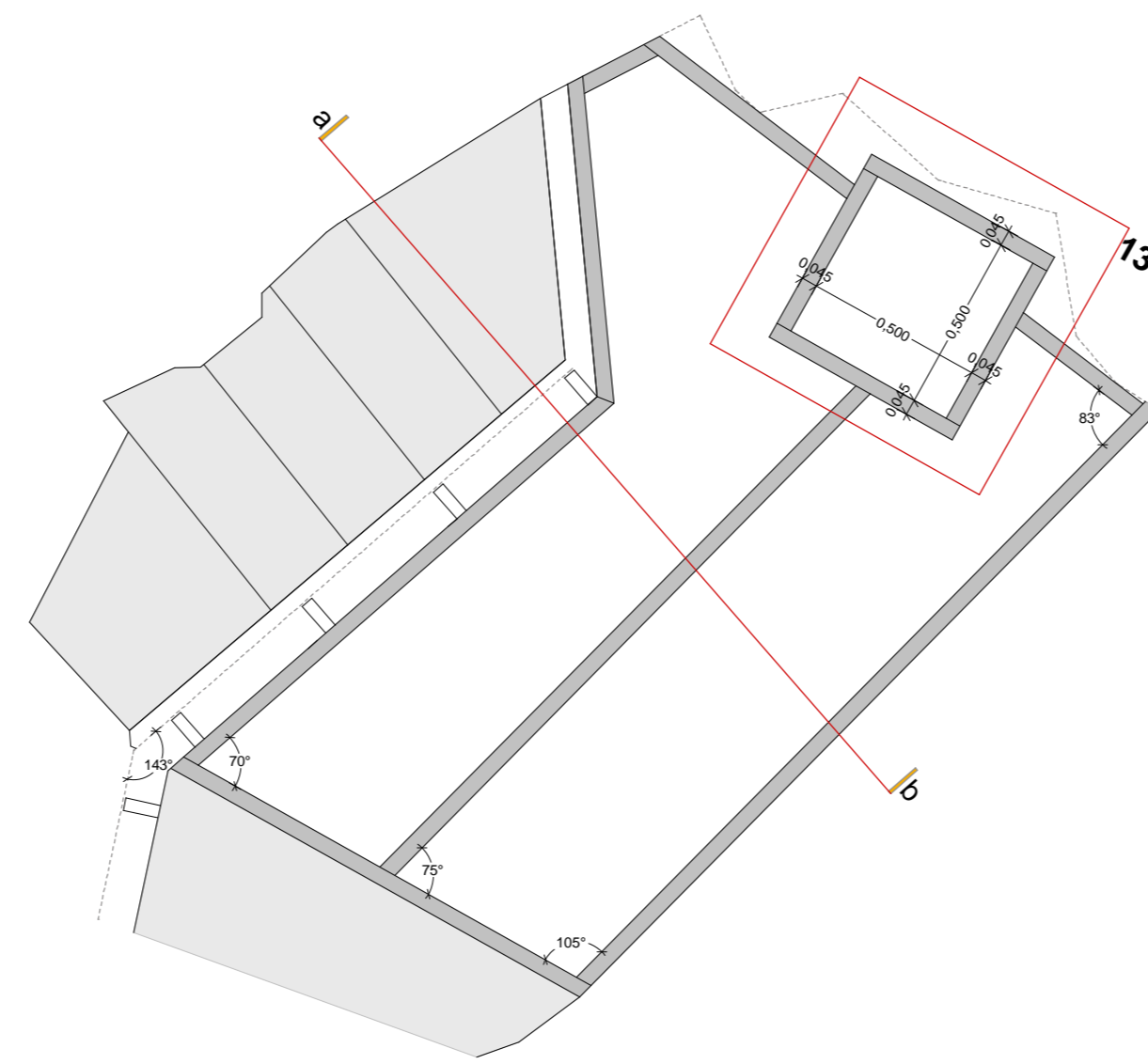
esc. 1:50

Setembro 2008

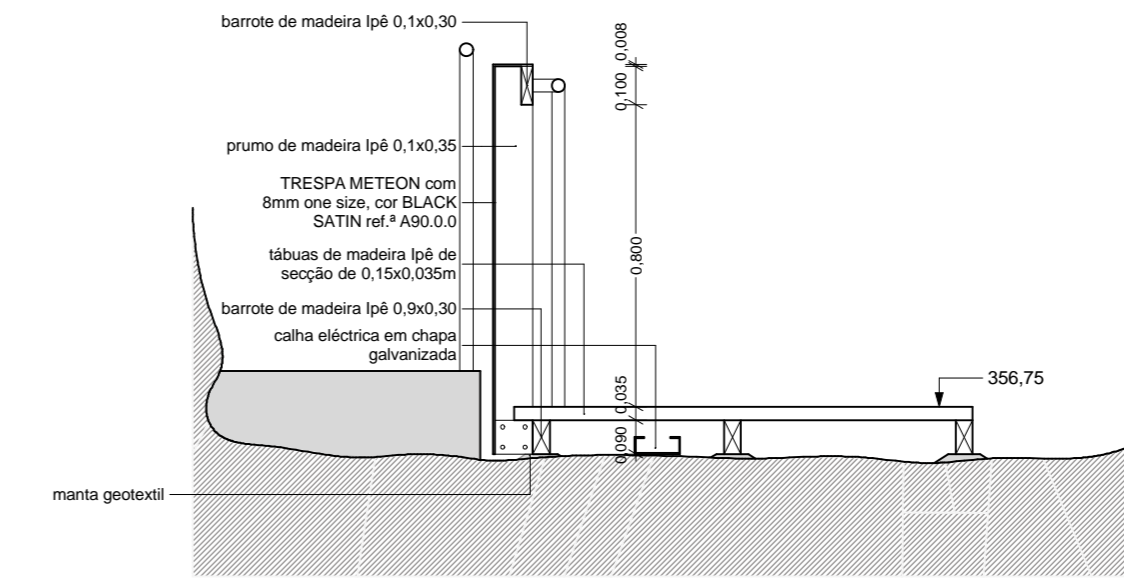
troço 1



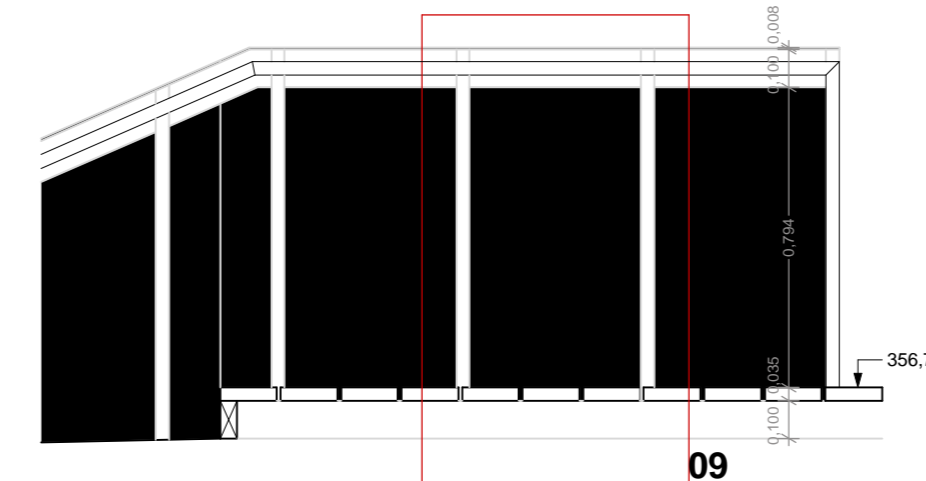
planta



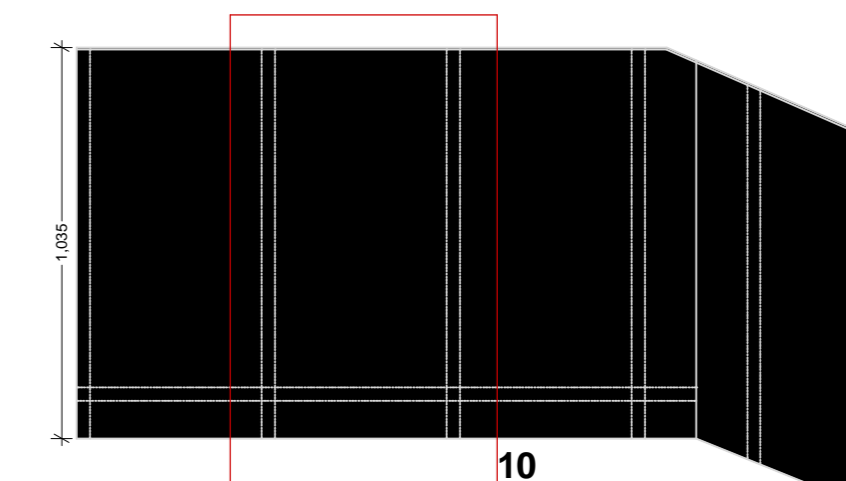
esquema de estrutura



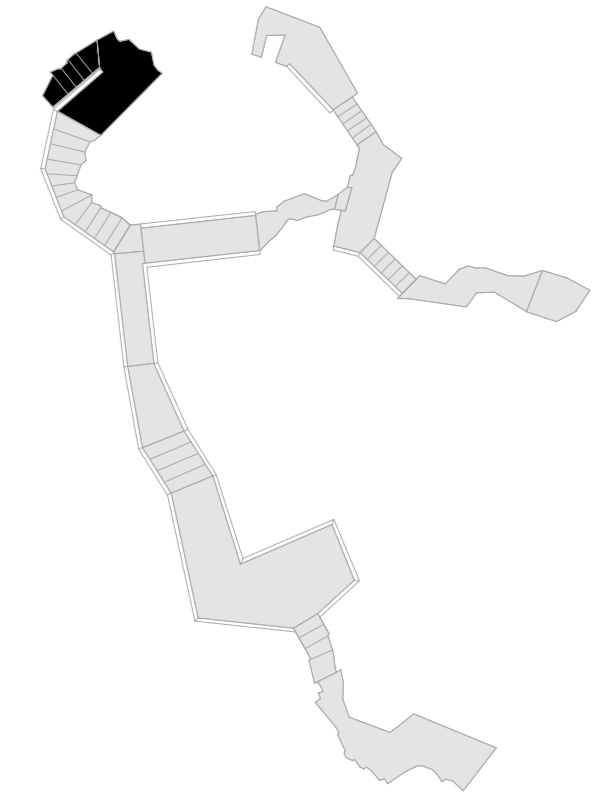
corte ab



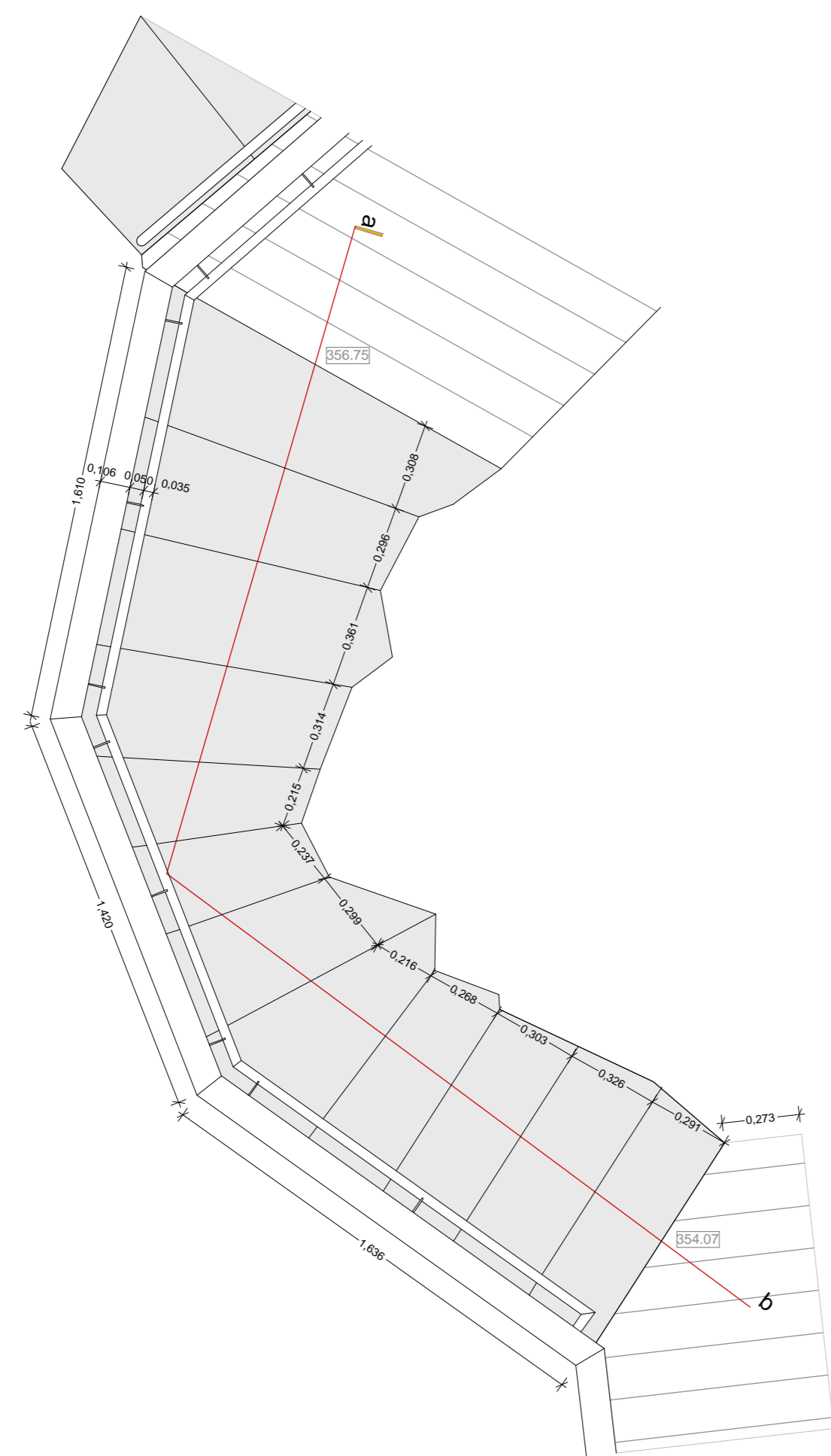
vista interior da guarda



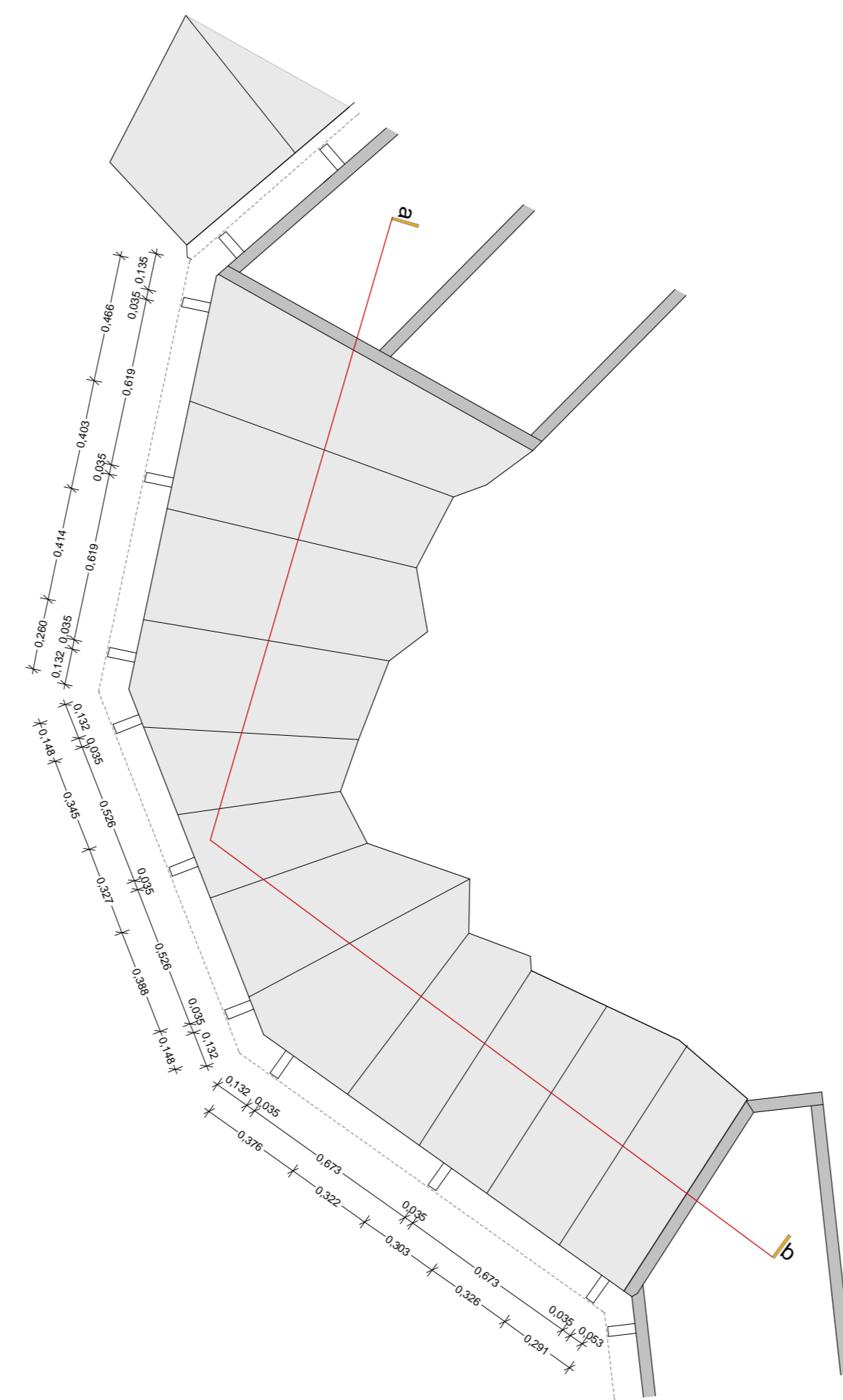
vista exterior da guarda



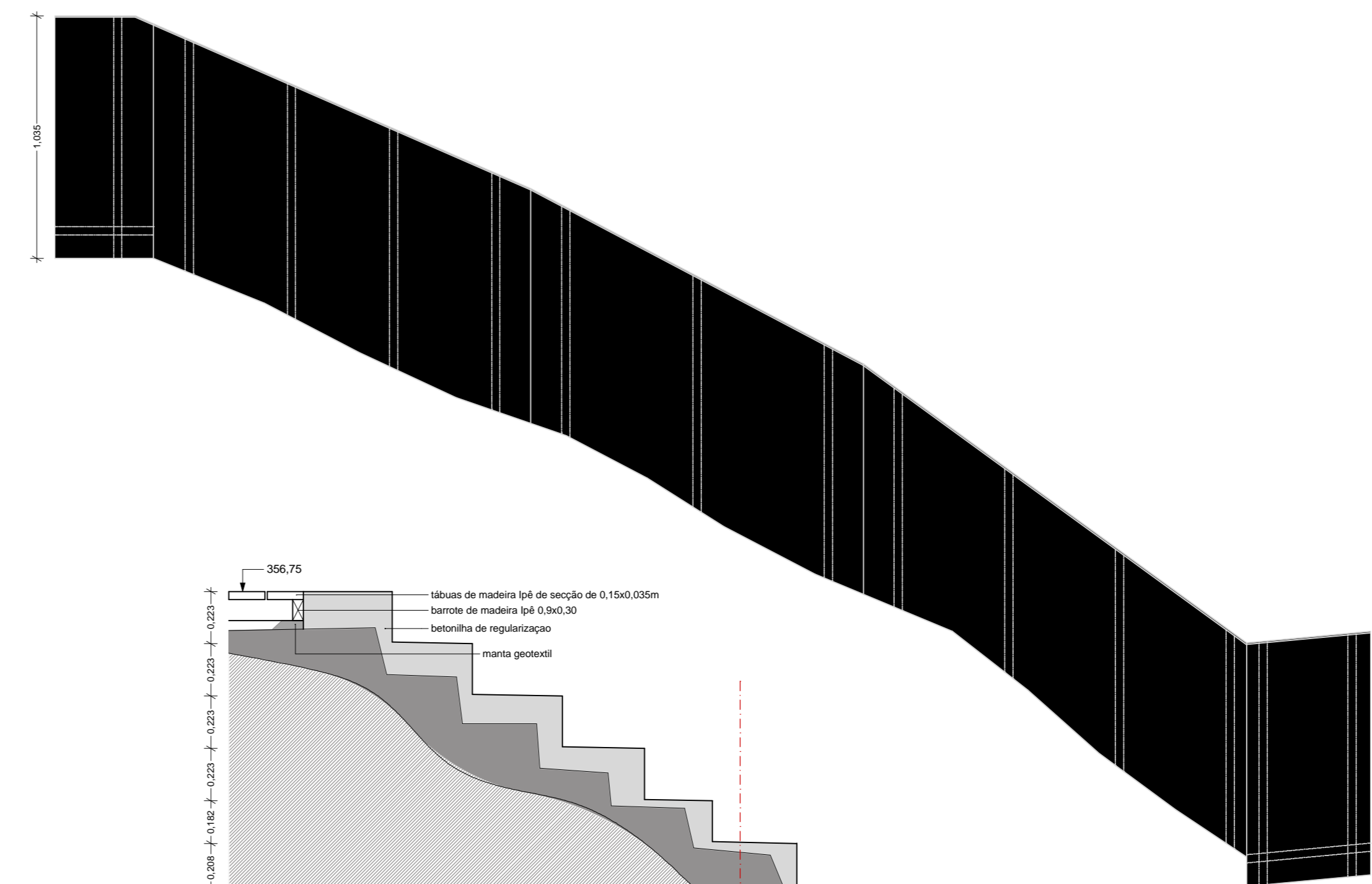
troço 2



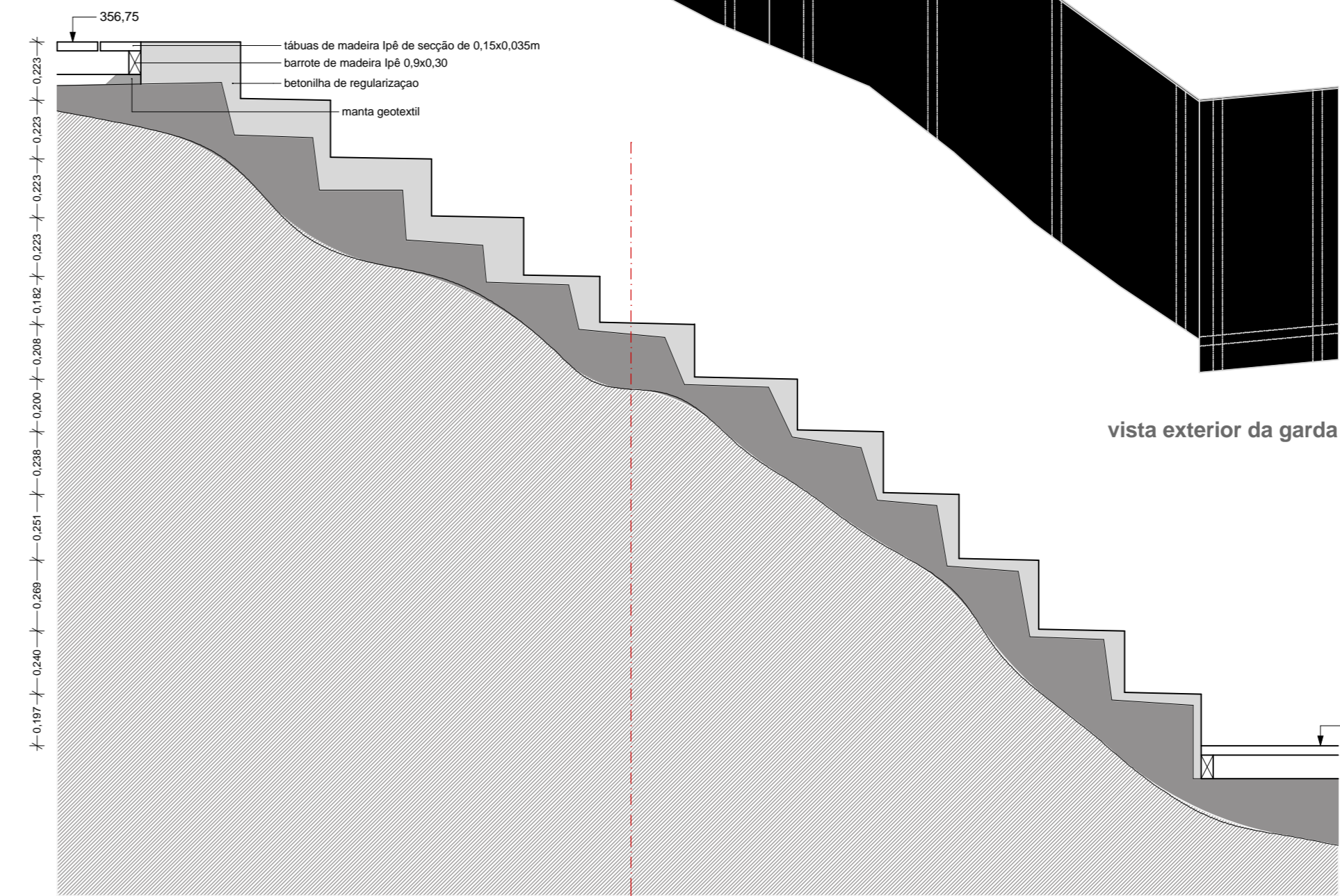
planta



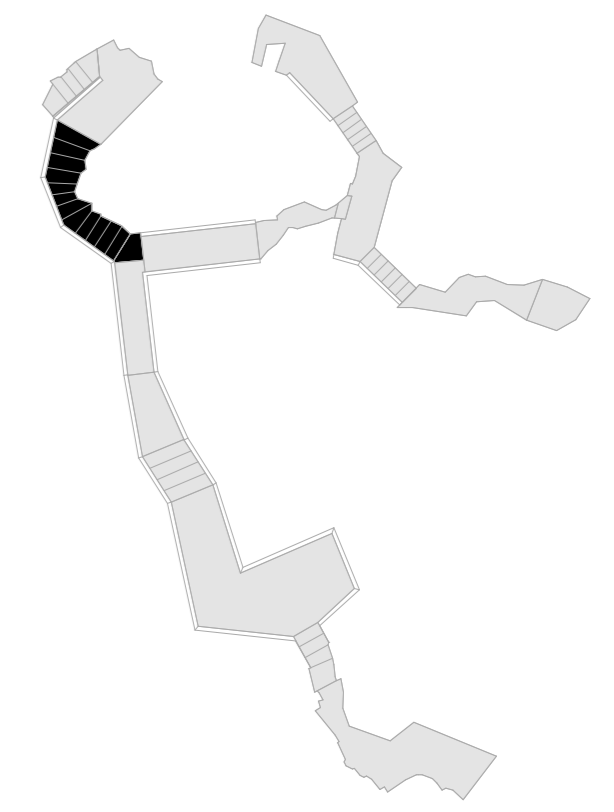
esquema de estrutura



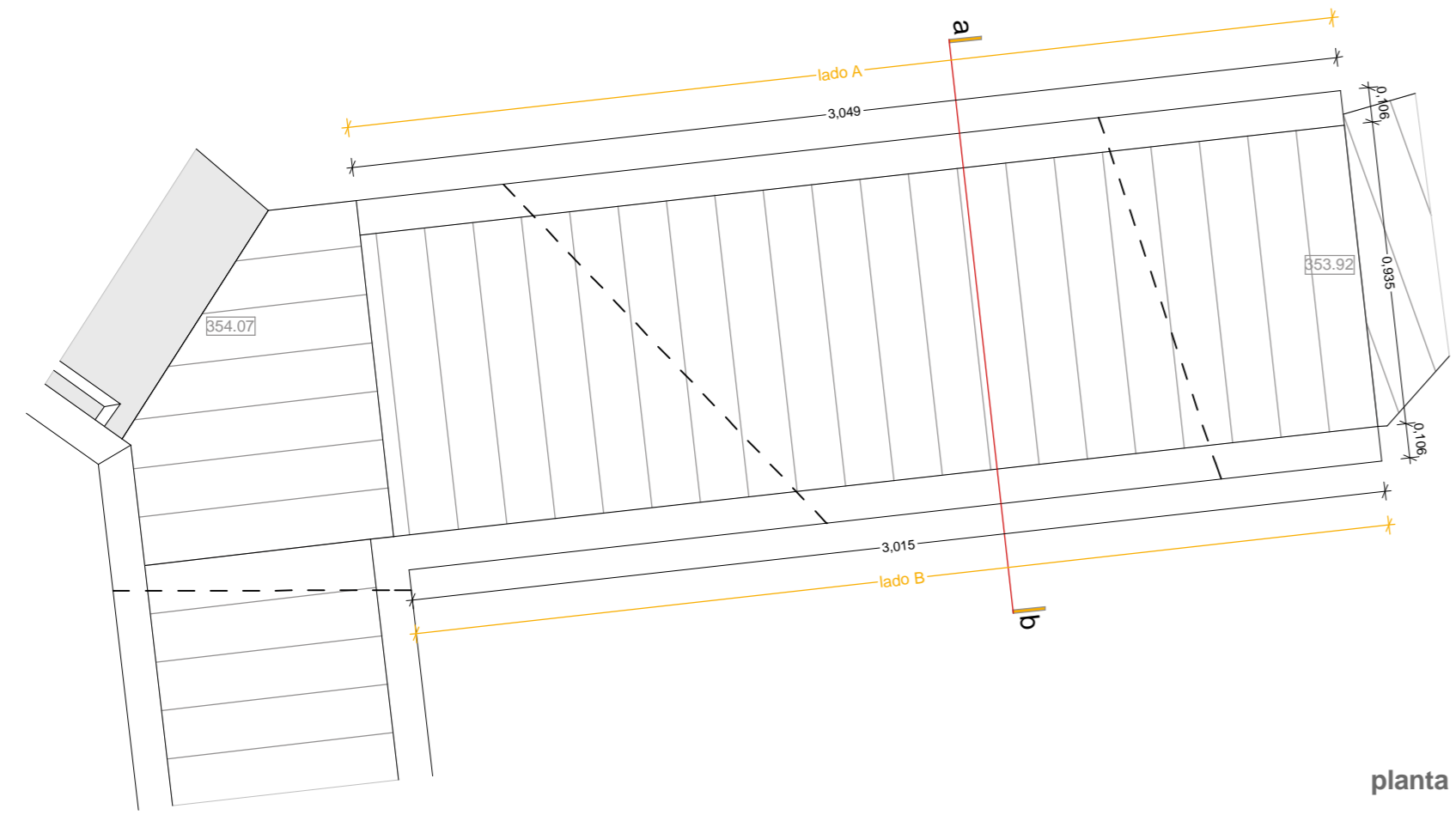
vista exterior da guarda



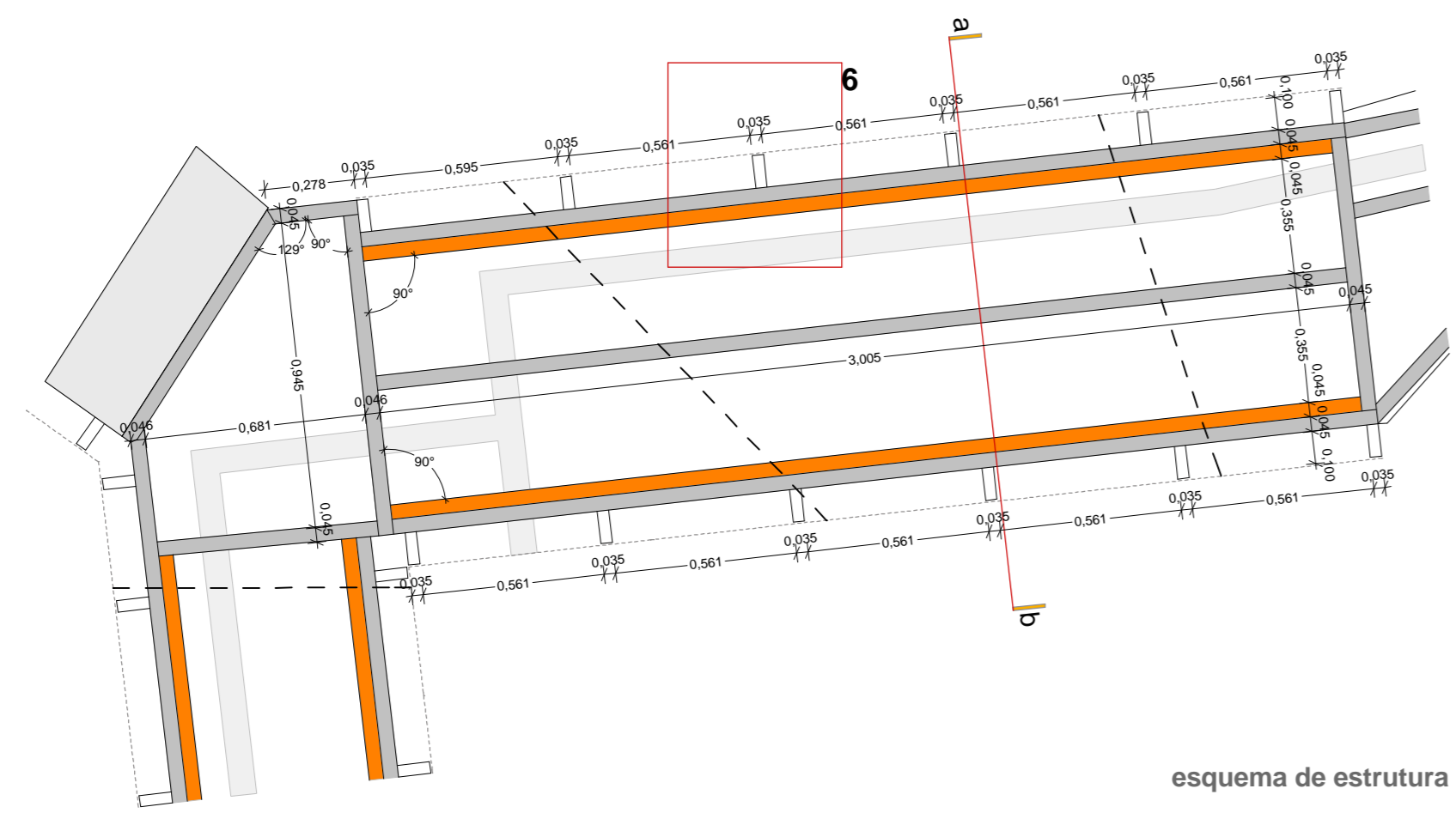
corte ab



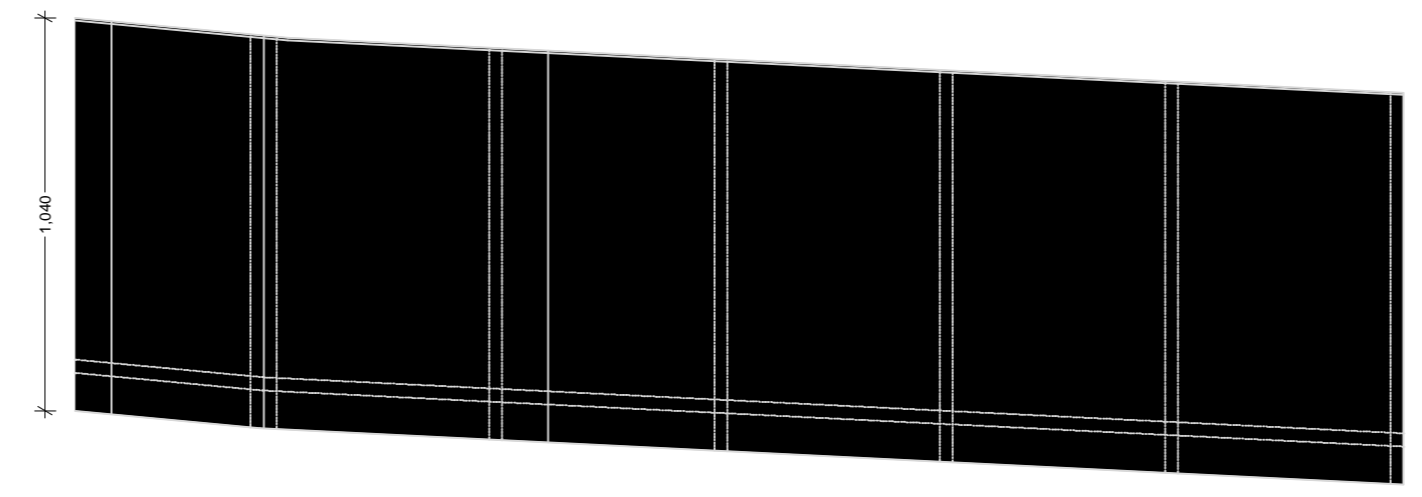
### troço 3



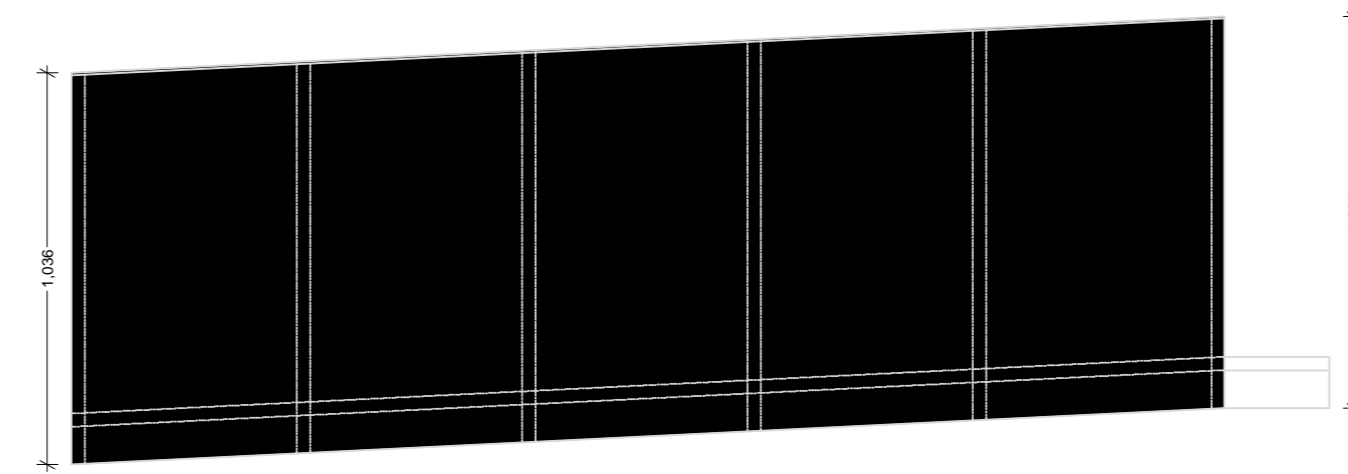
planta



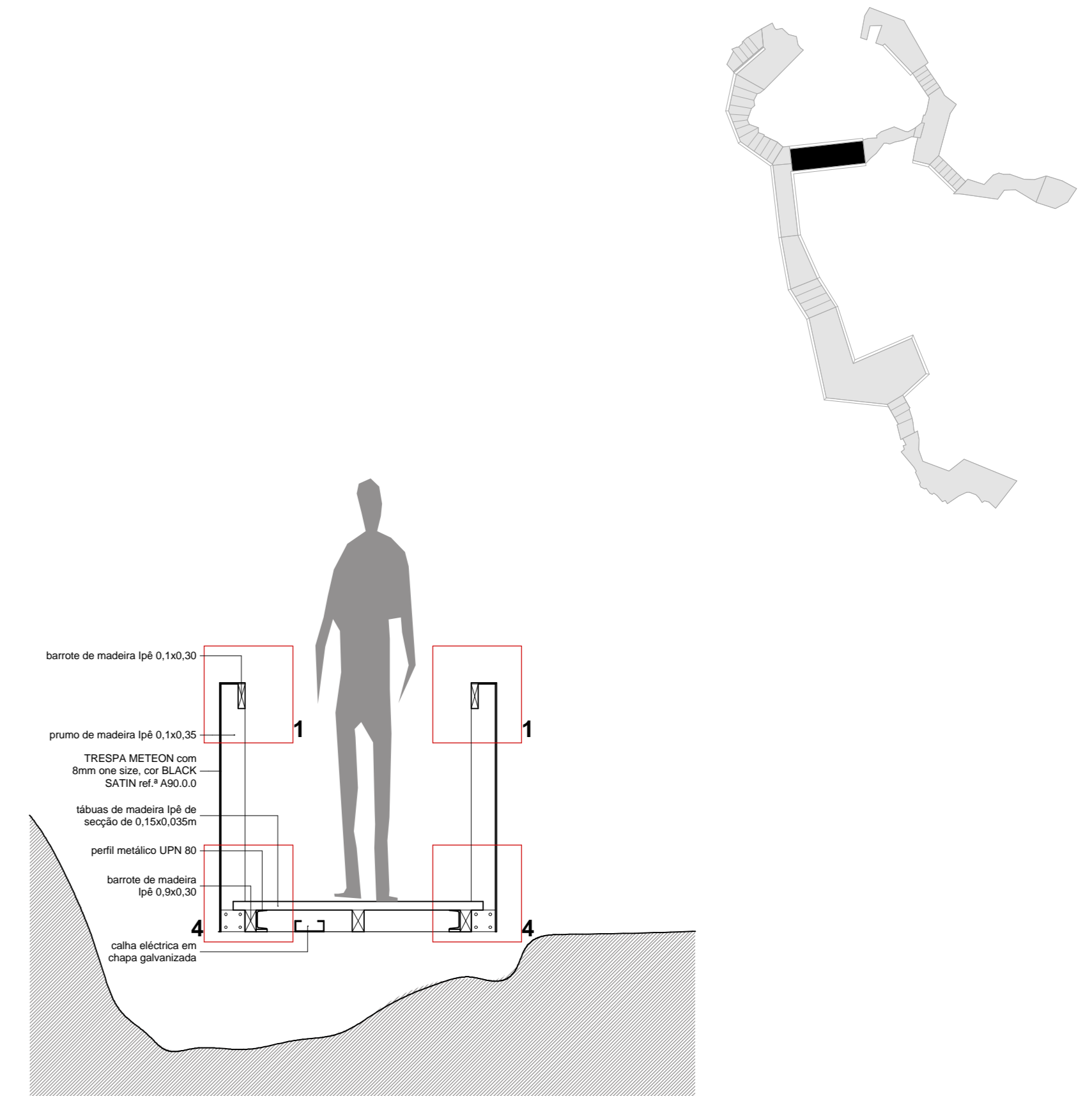
esquema de estrutura



vista exterior da guarda lado B

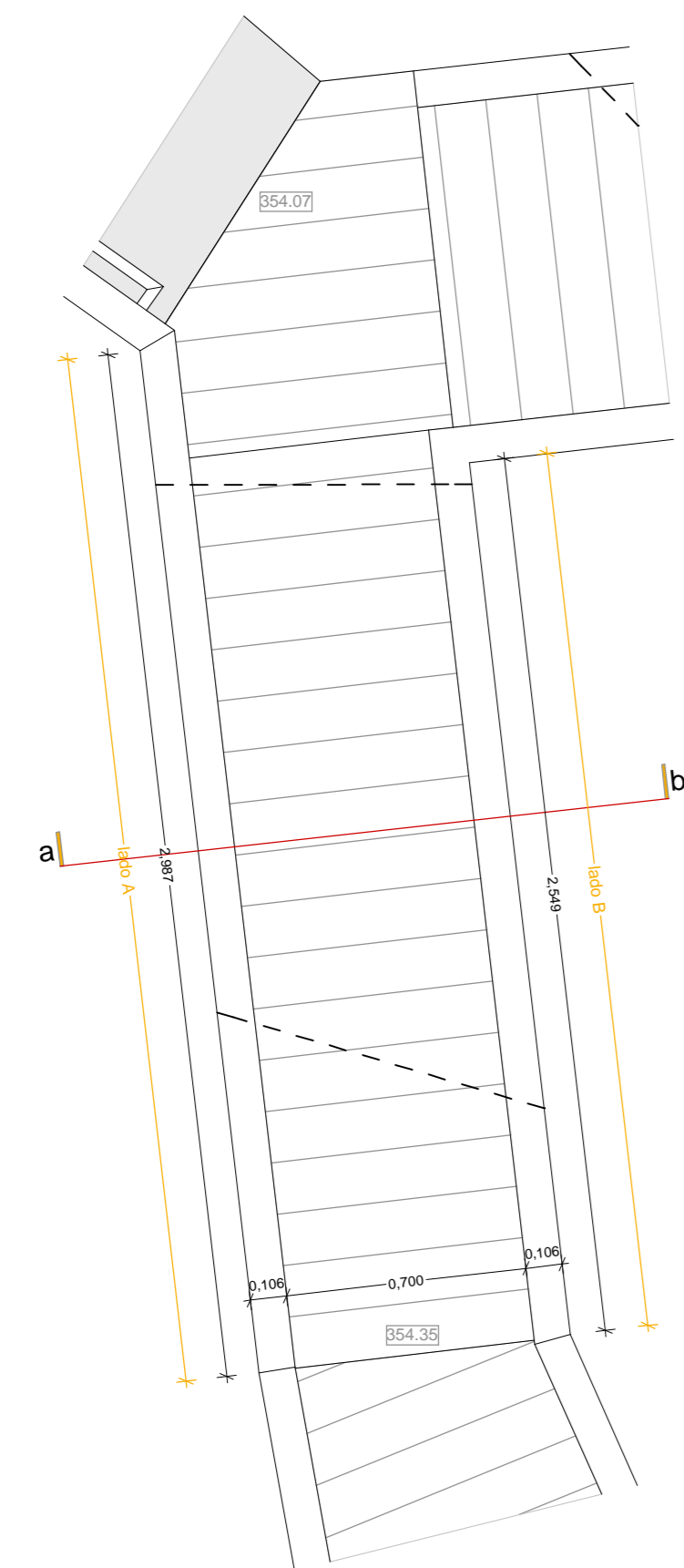


vista exterior da guarda lado A

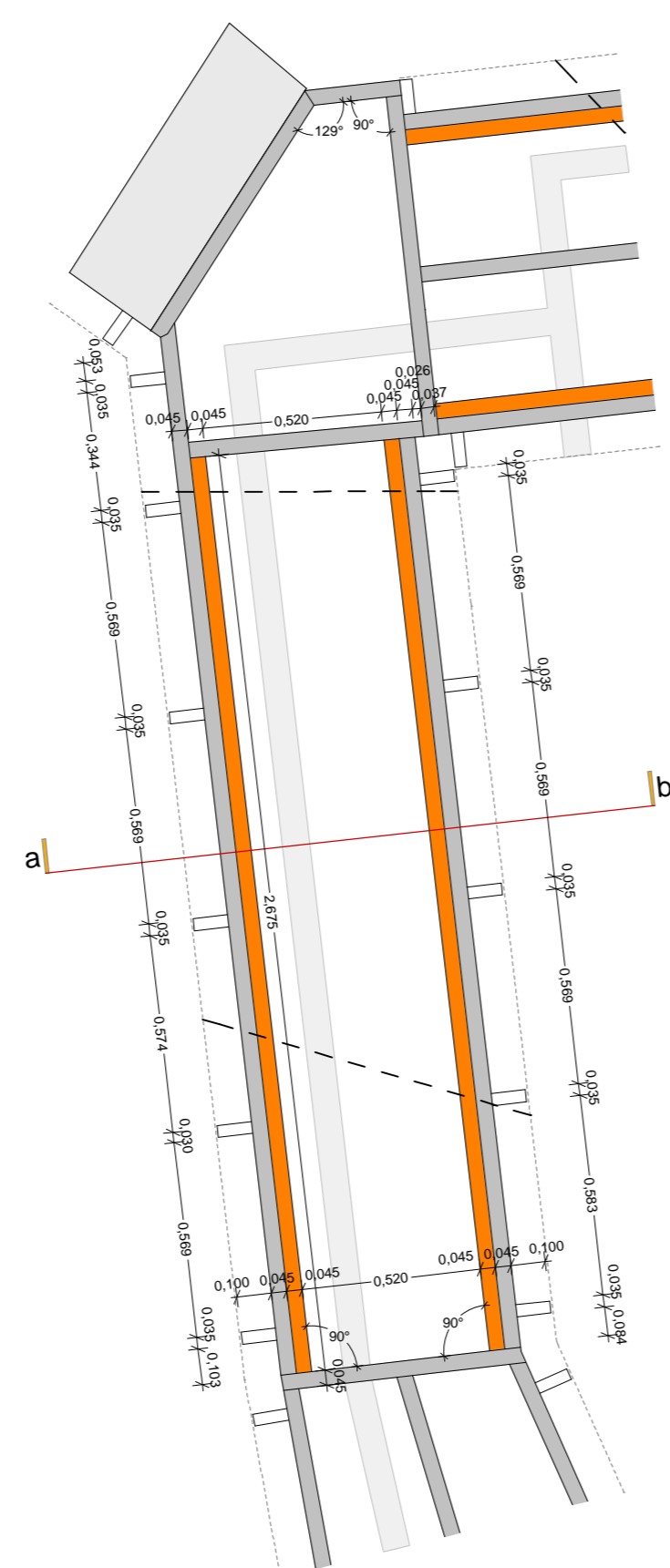


corte ab

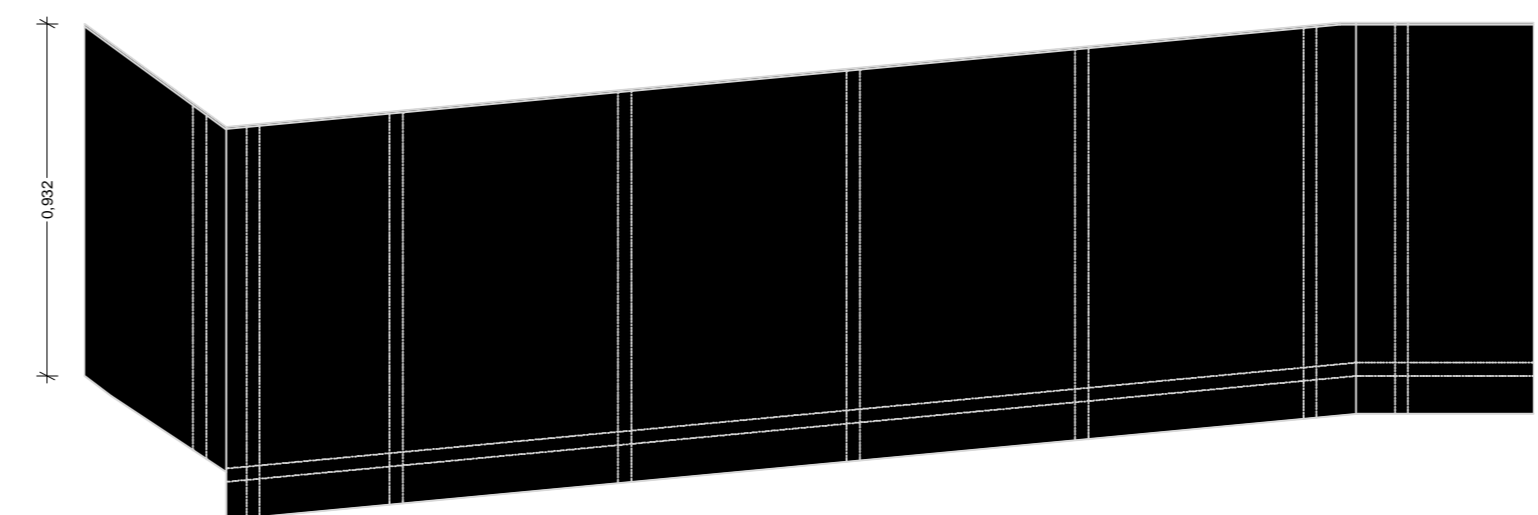
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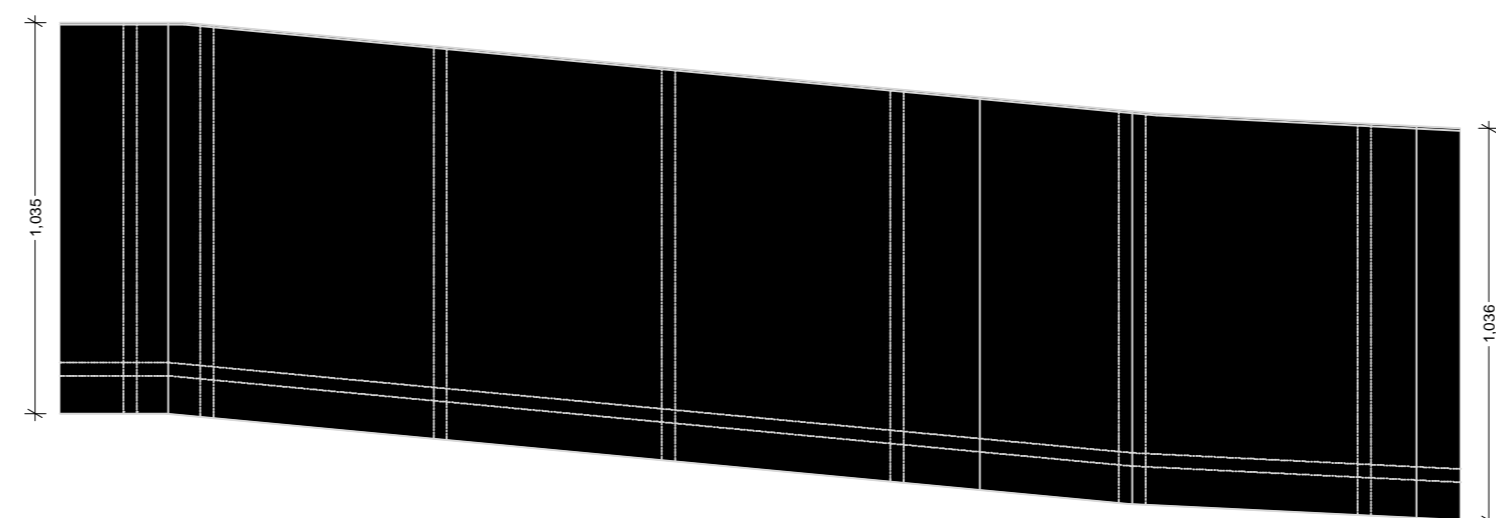
planta



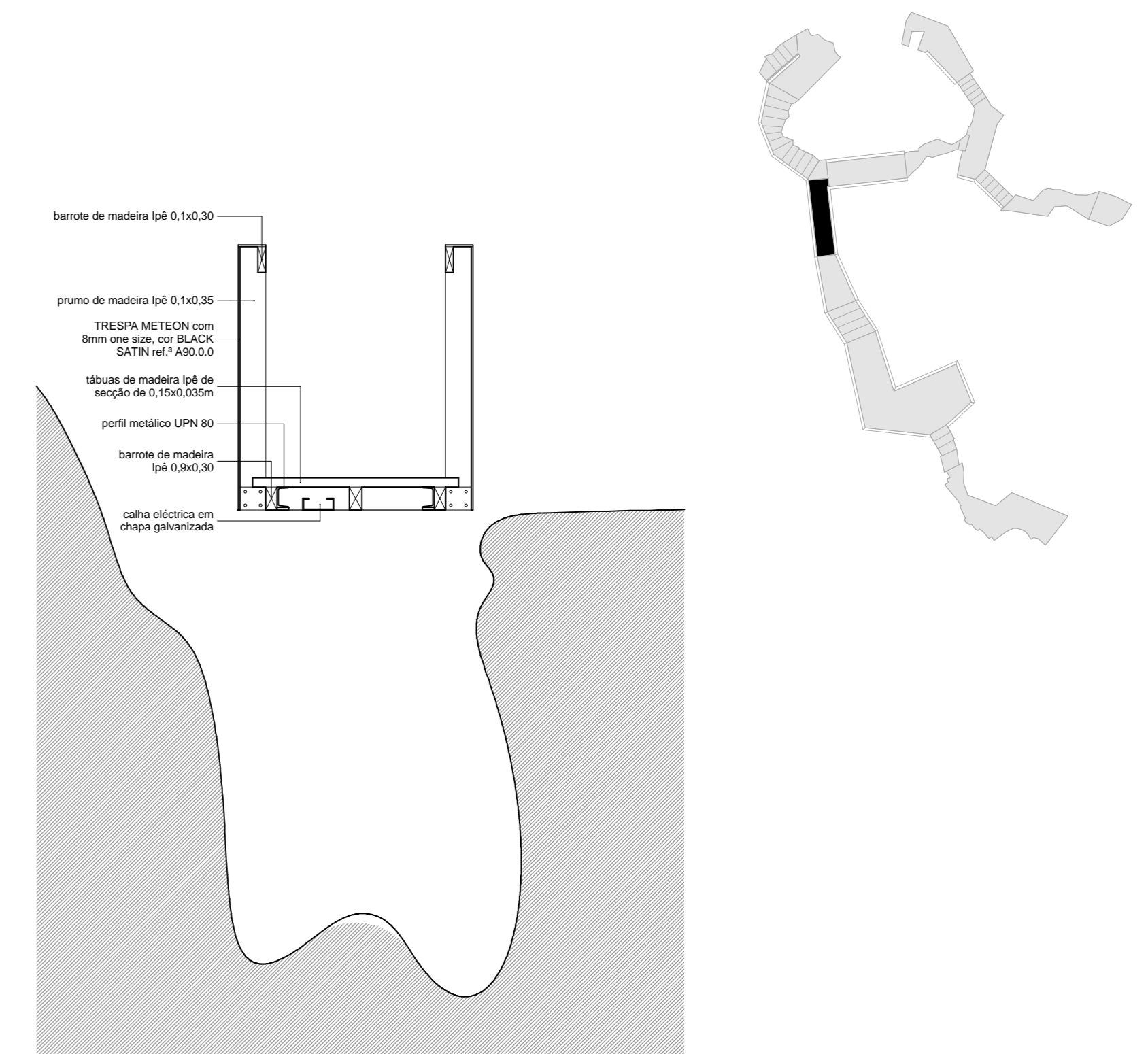
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vista exterior da guarda lado A

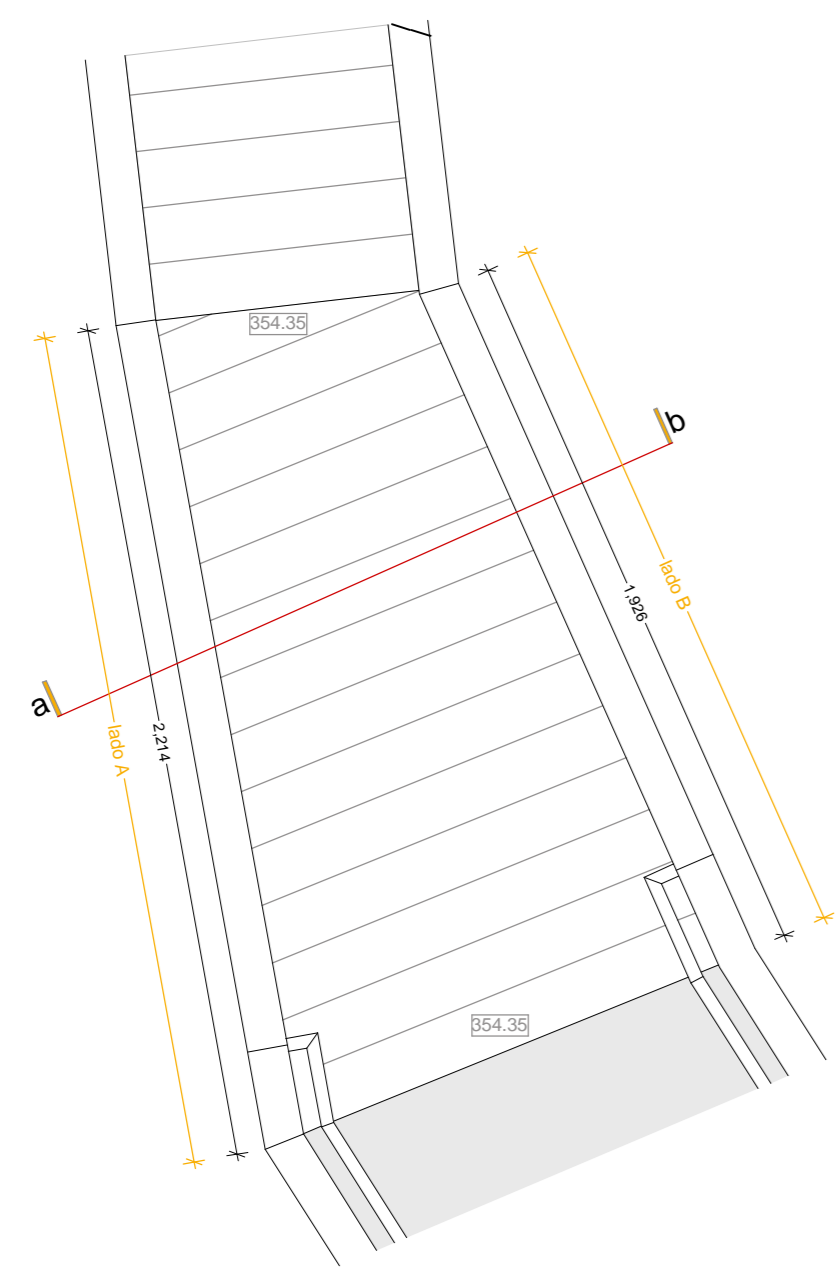


vista exterior da guarda lado B

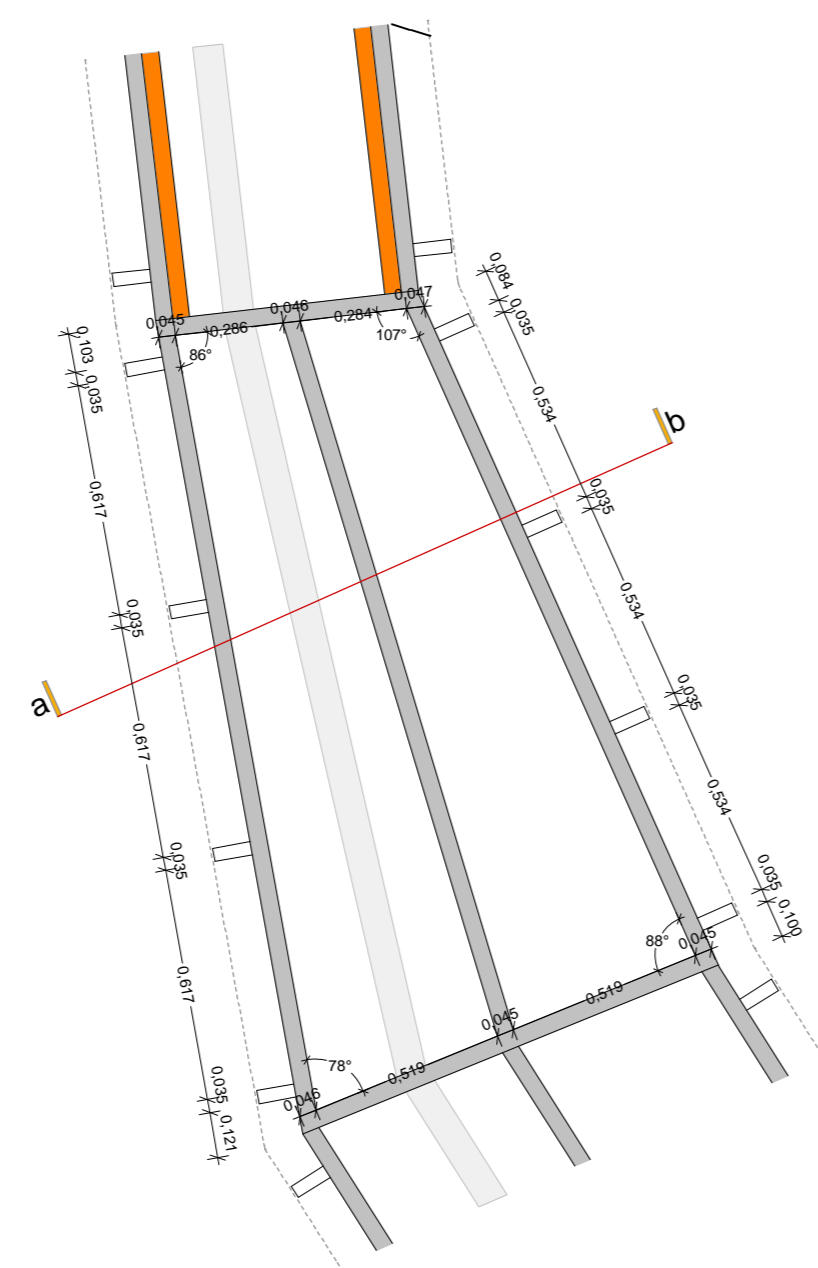


corte ab

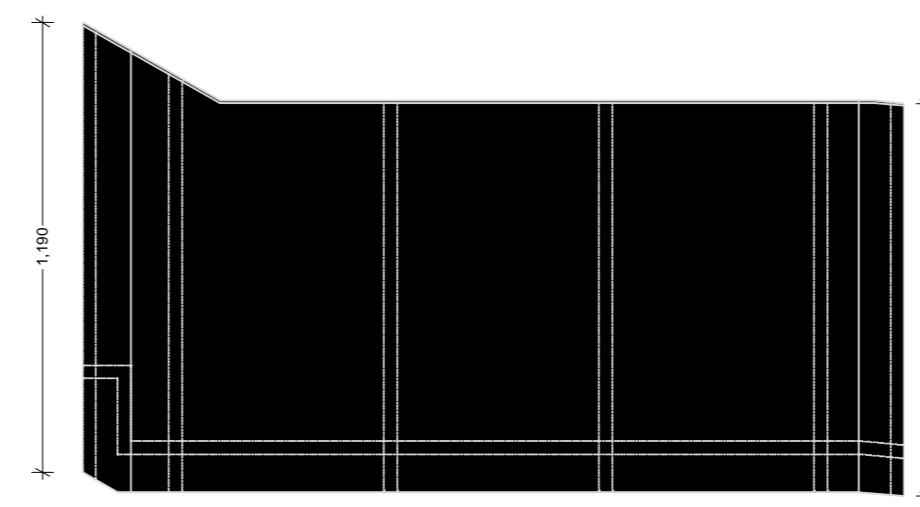
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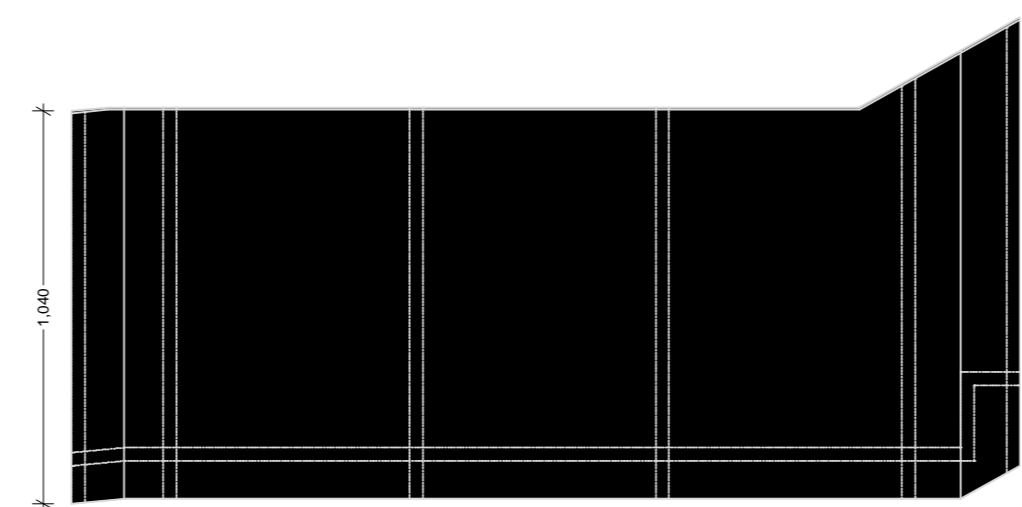
planta



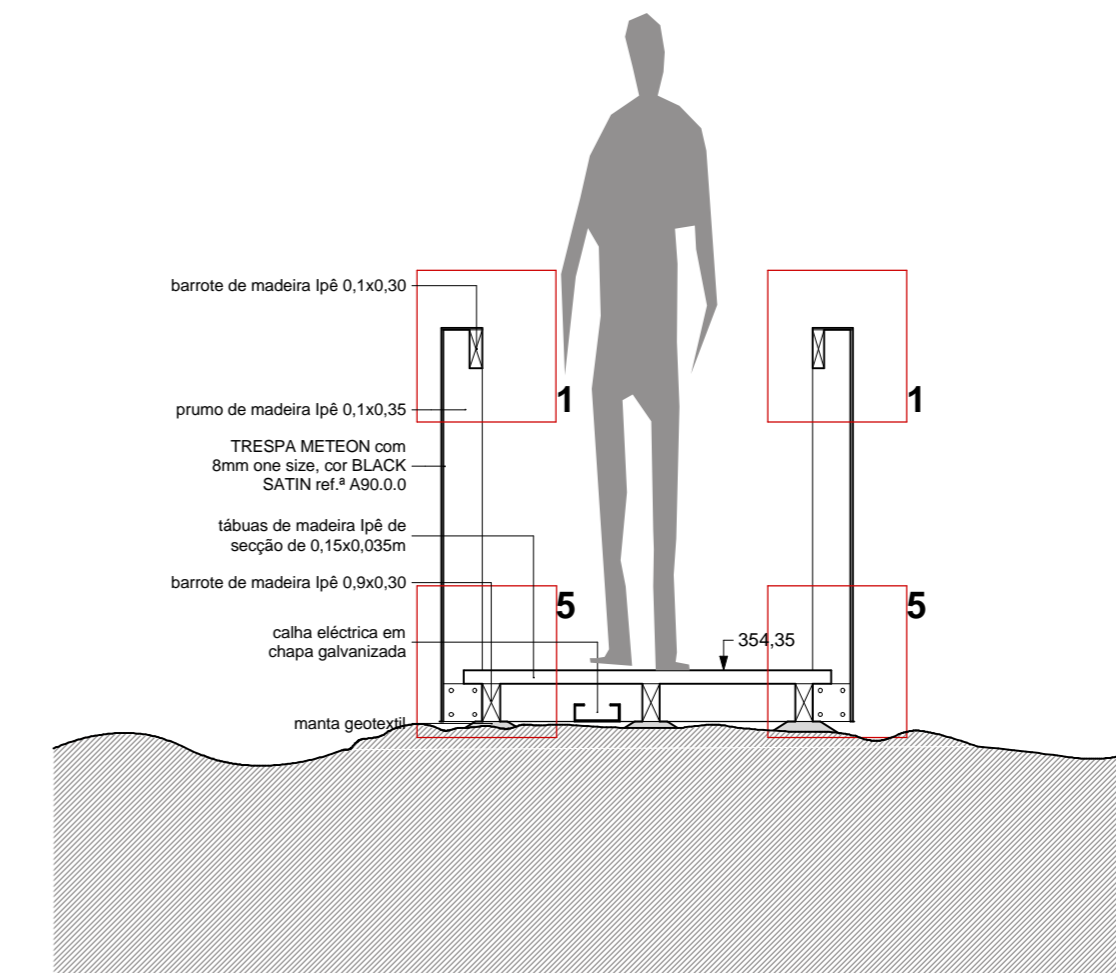
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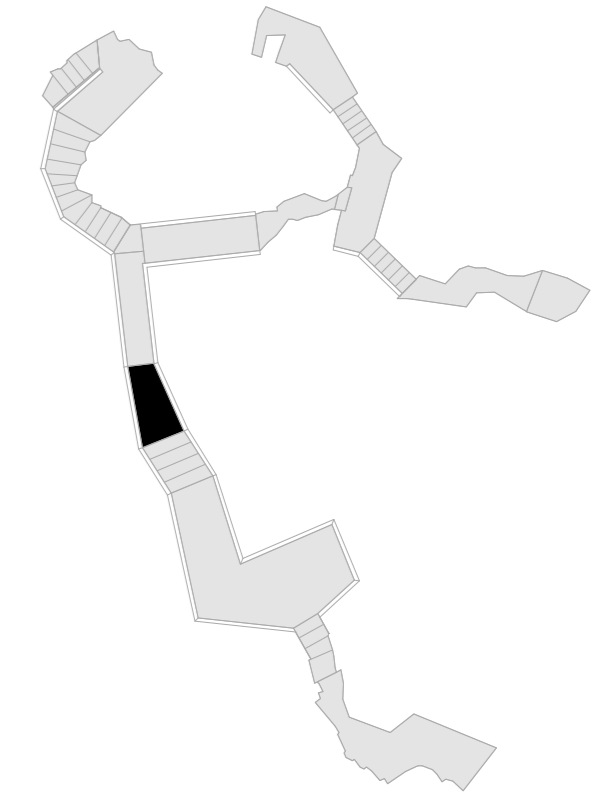
vista exterior da guarda lado B



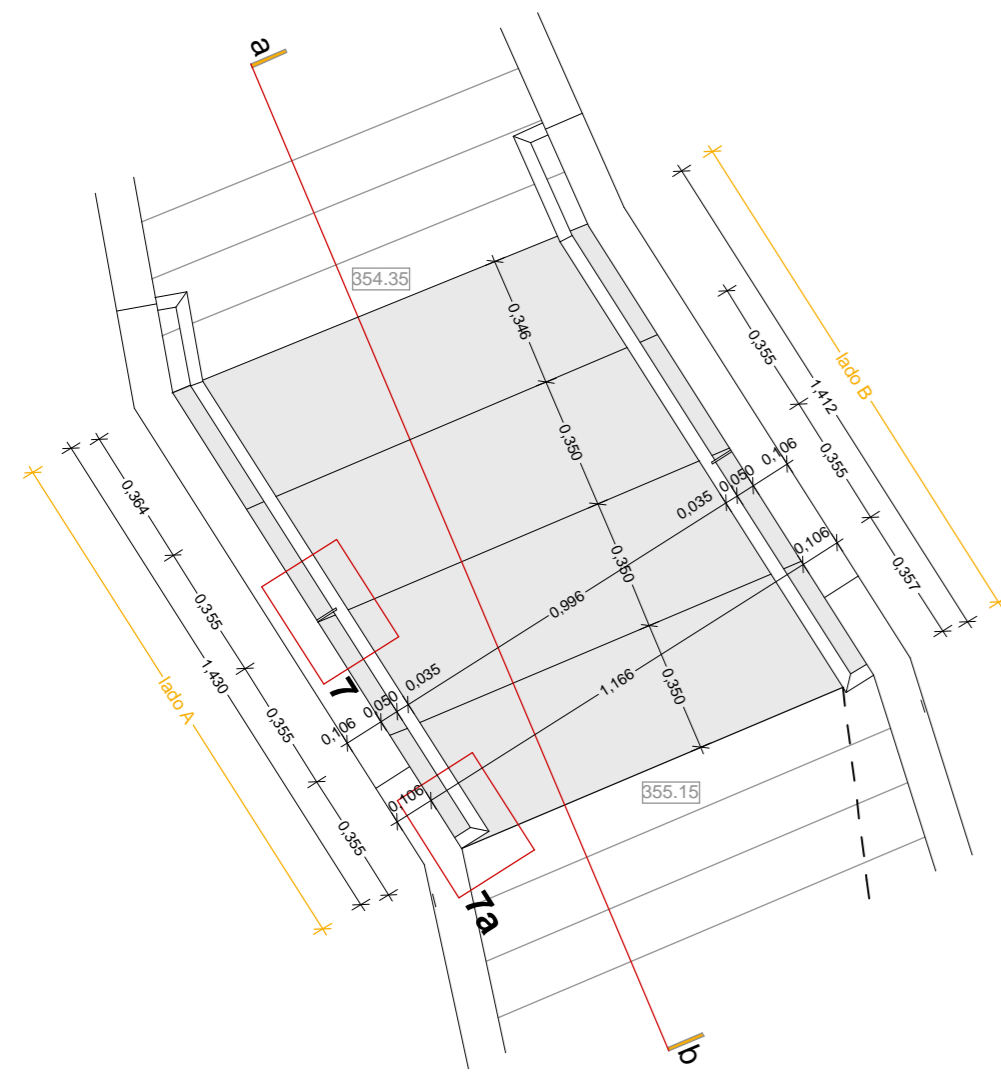
vista exterior da guarda lado A



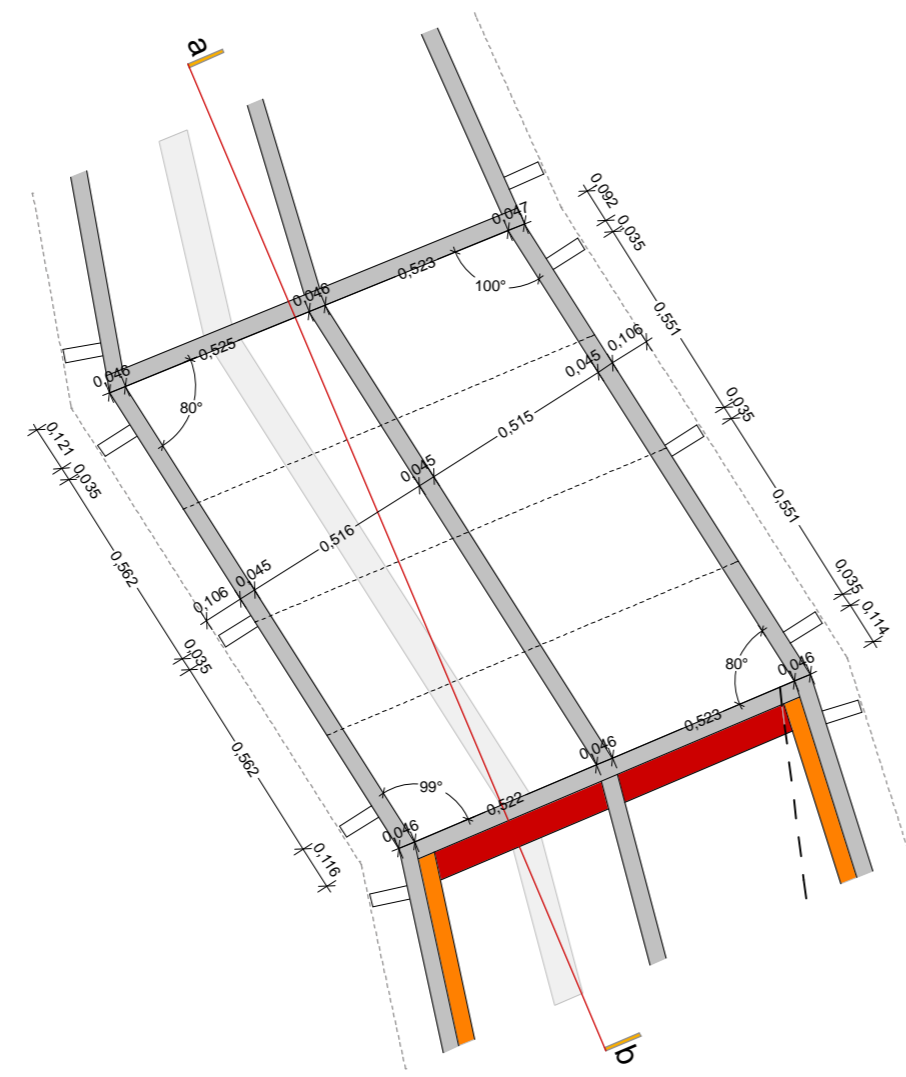
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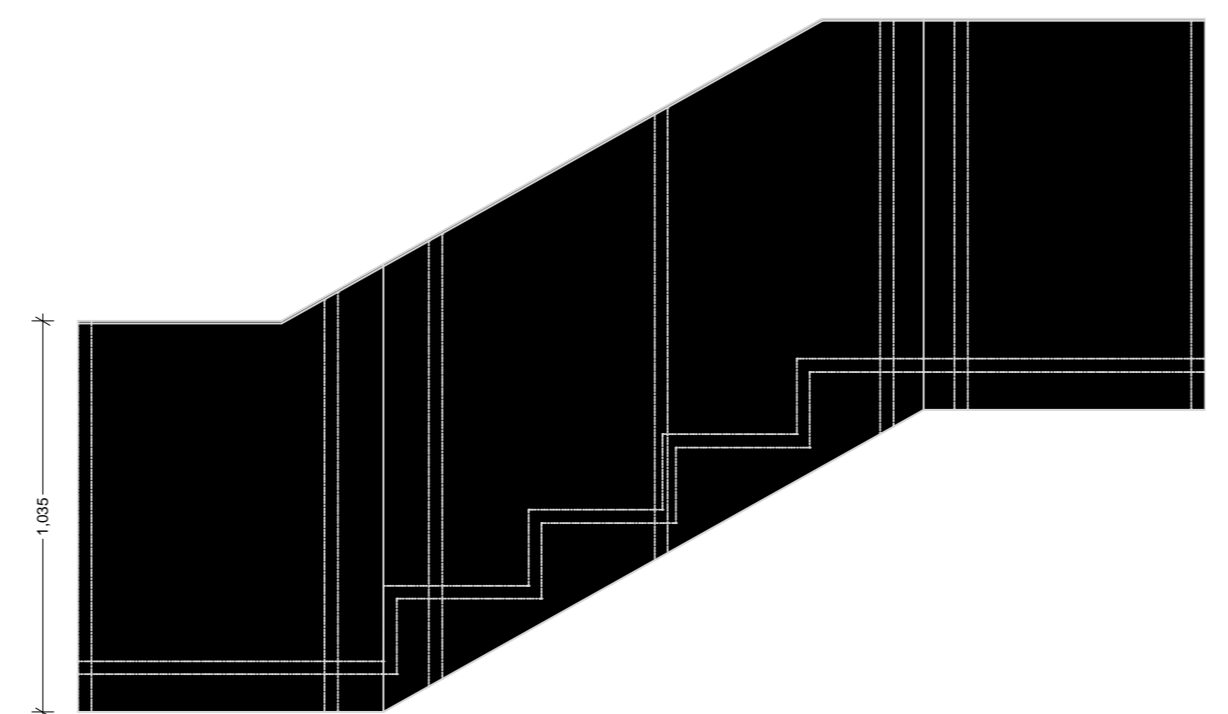
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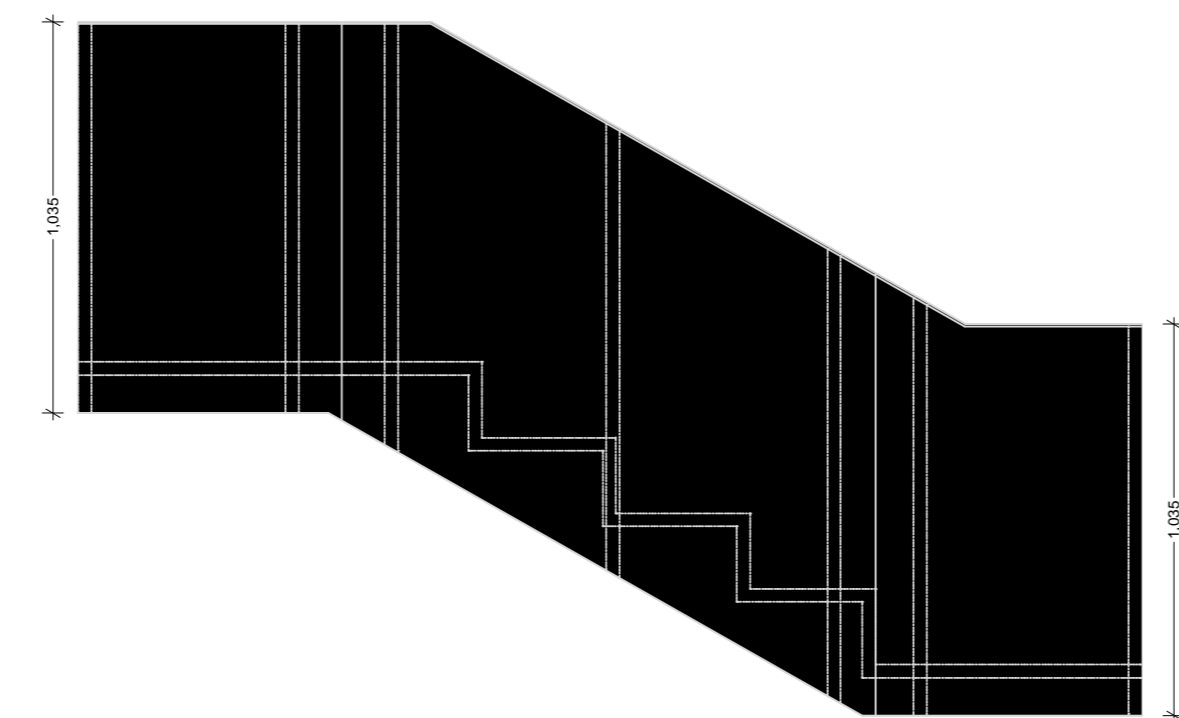
planta



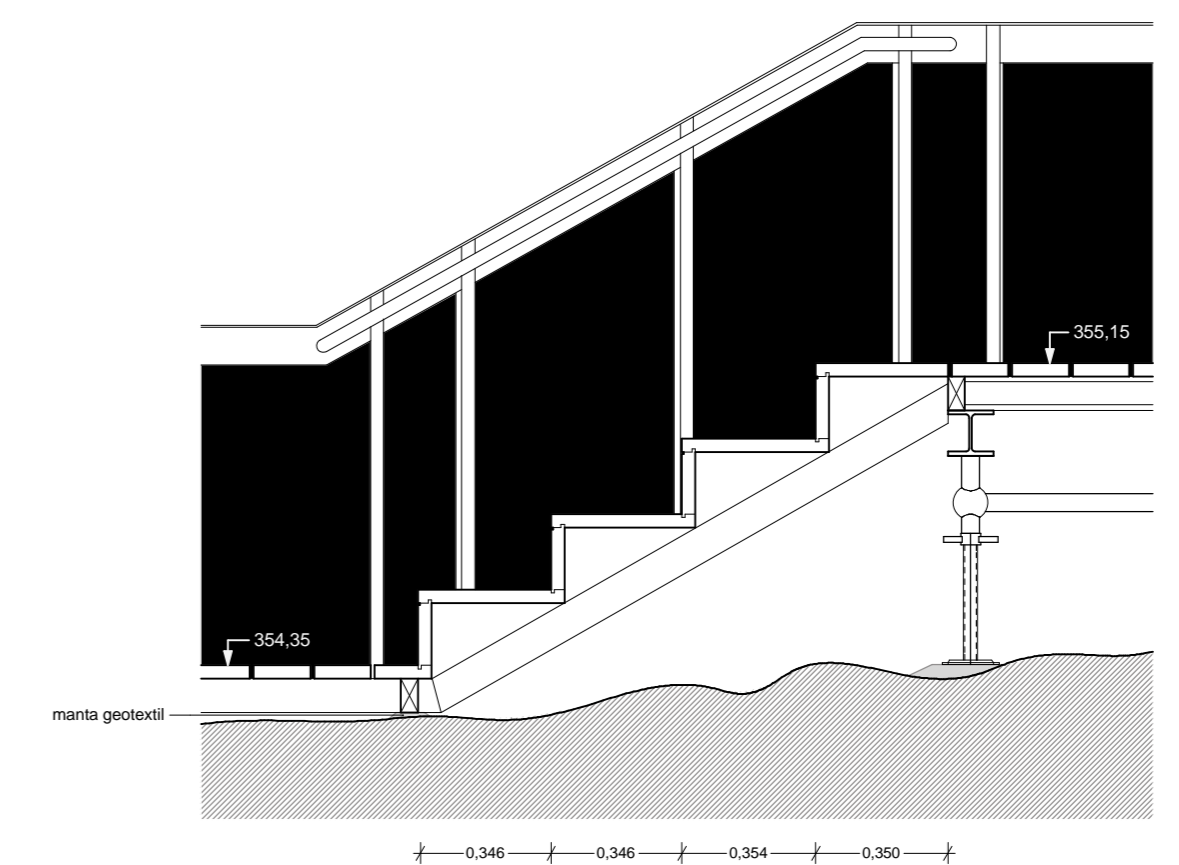
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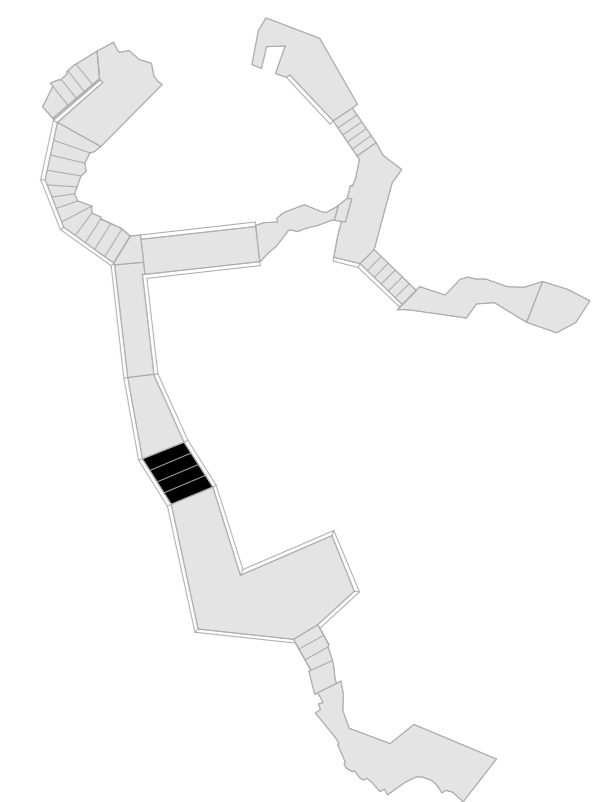
vista exterior da guarda lado A



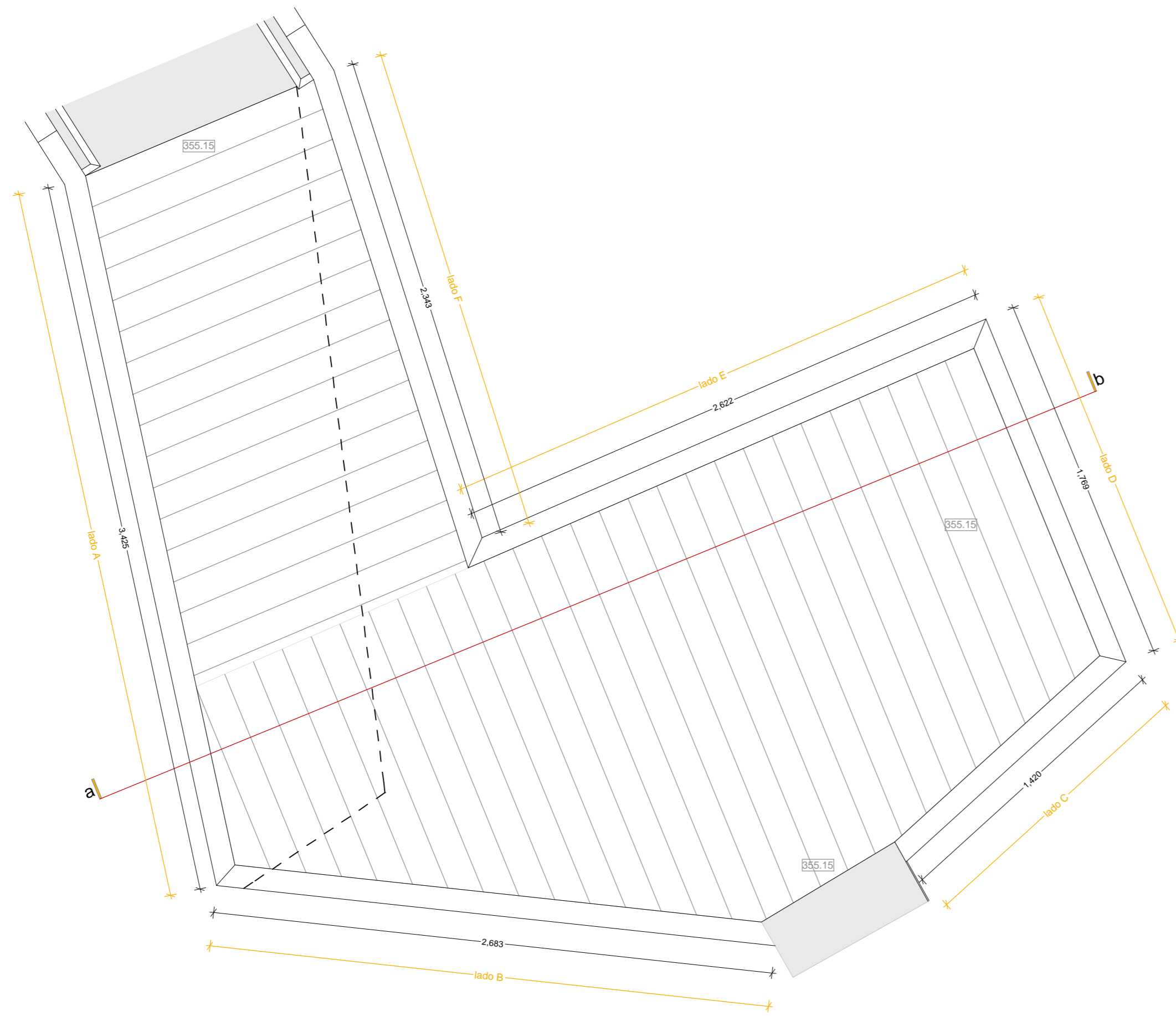
vista exterior da guarda lado B



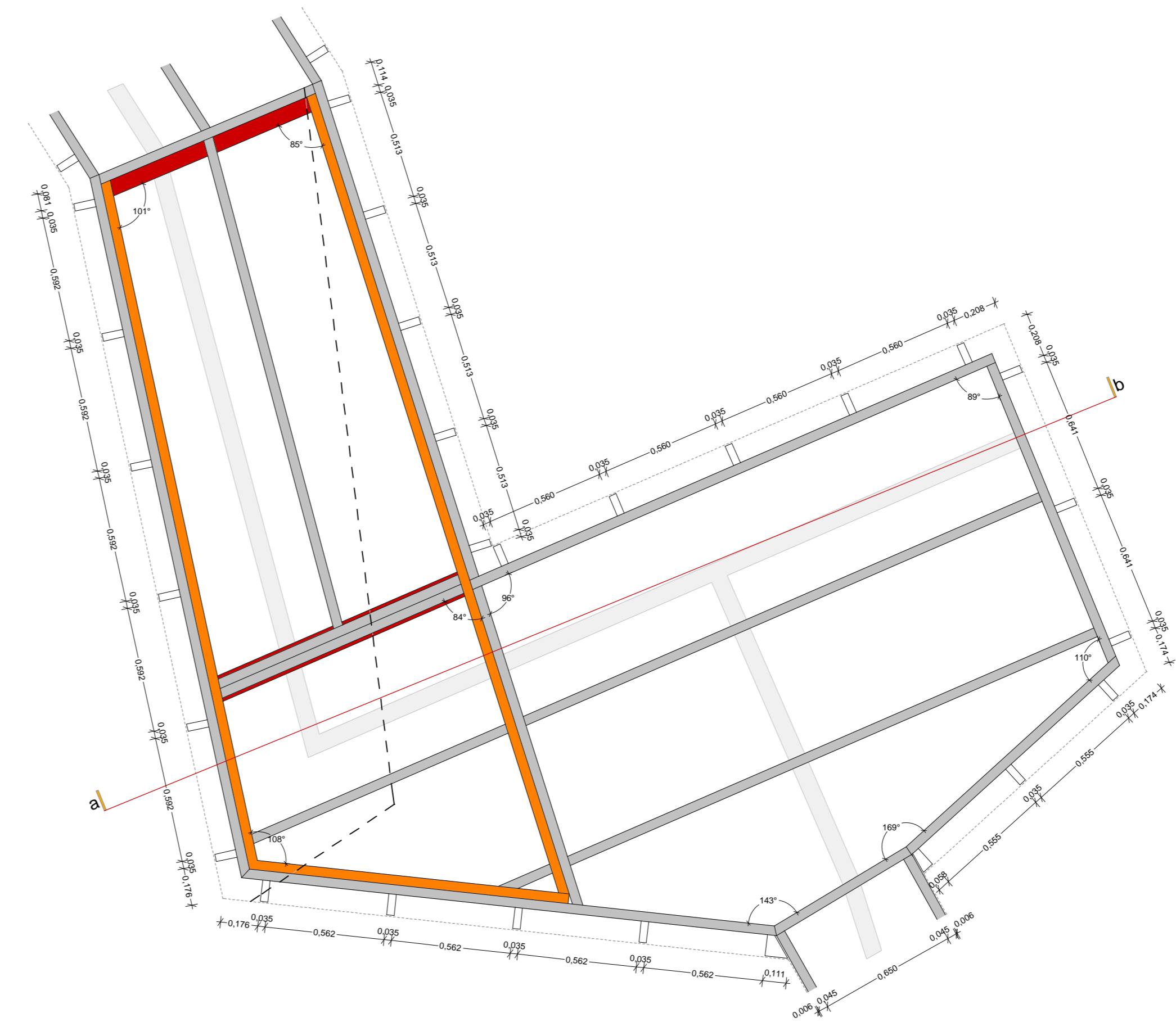
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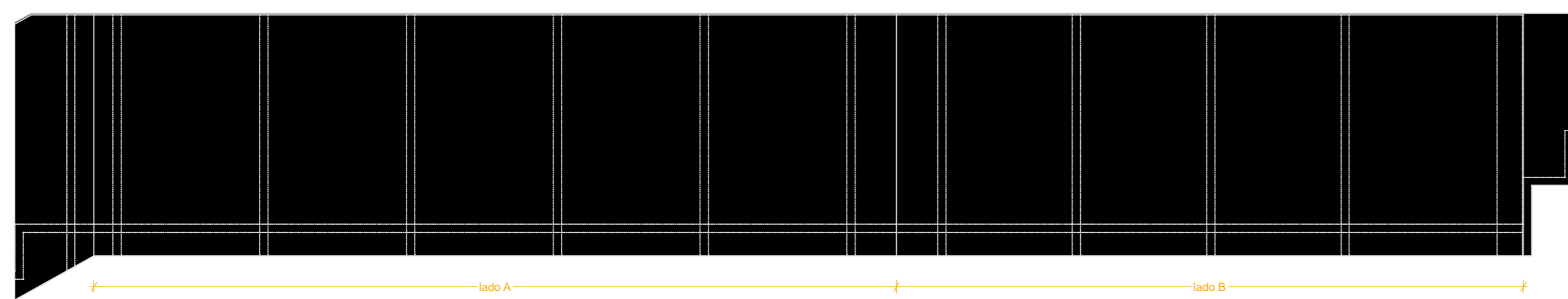
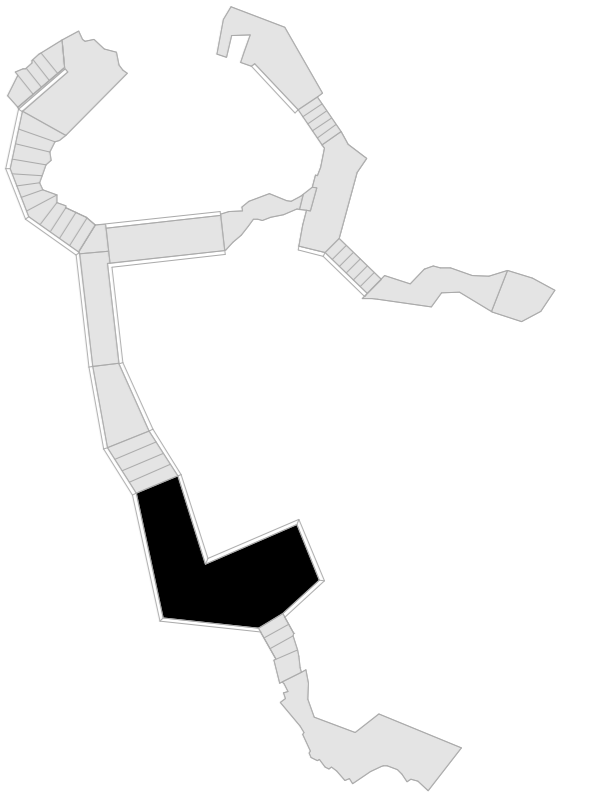
troço 7



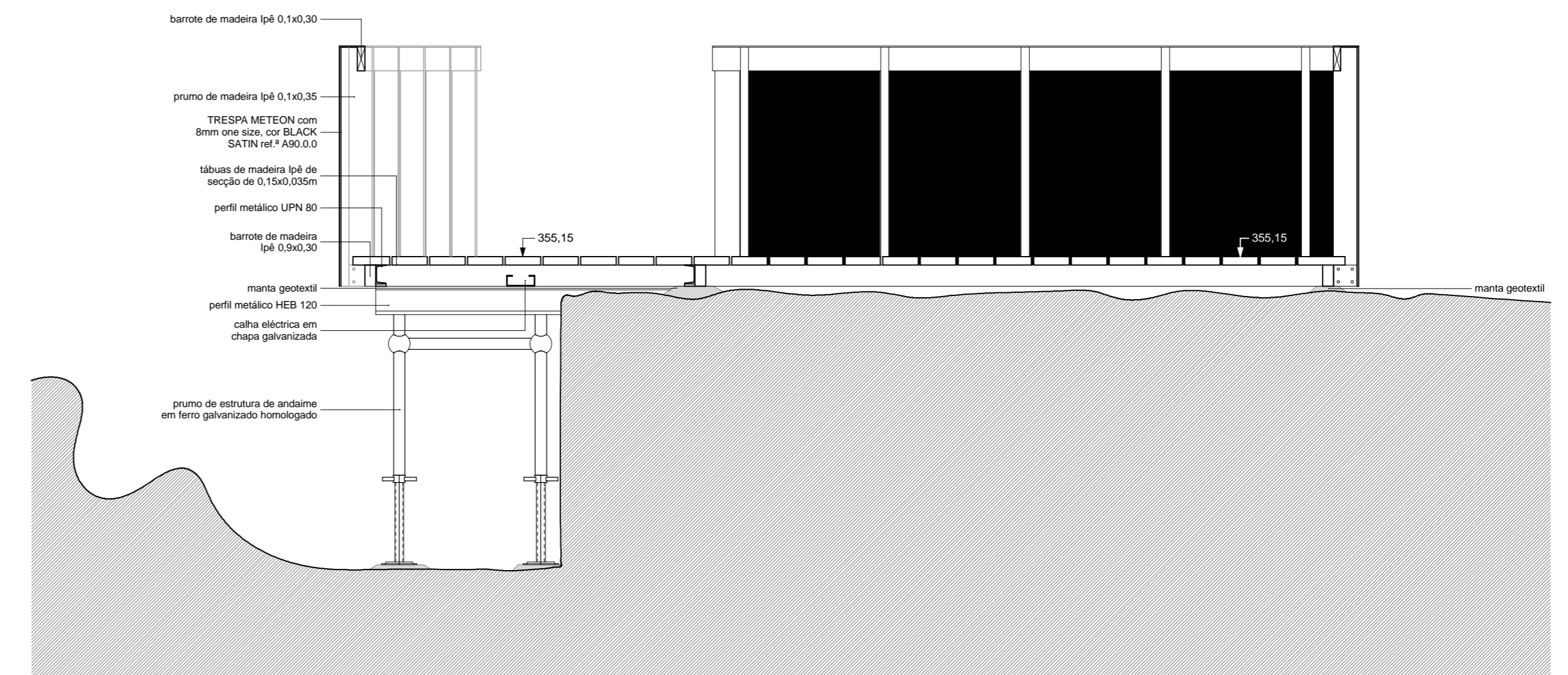
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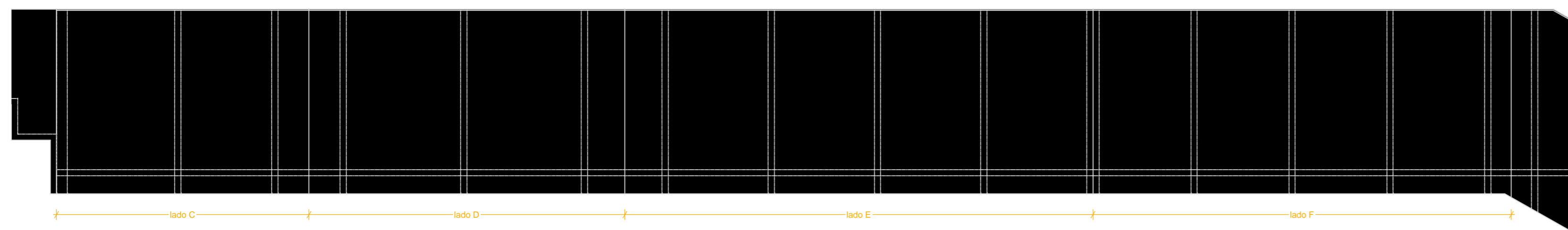
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vista exterior da guarda

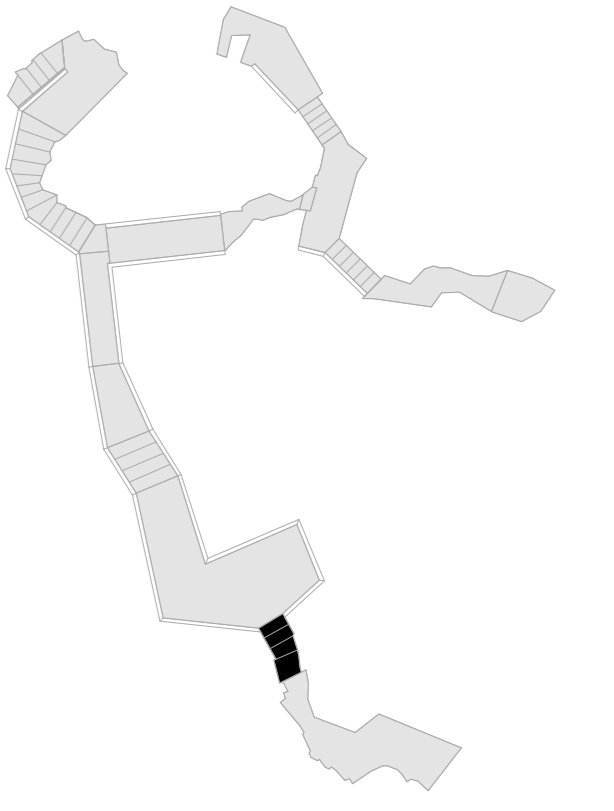
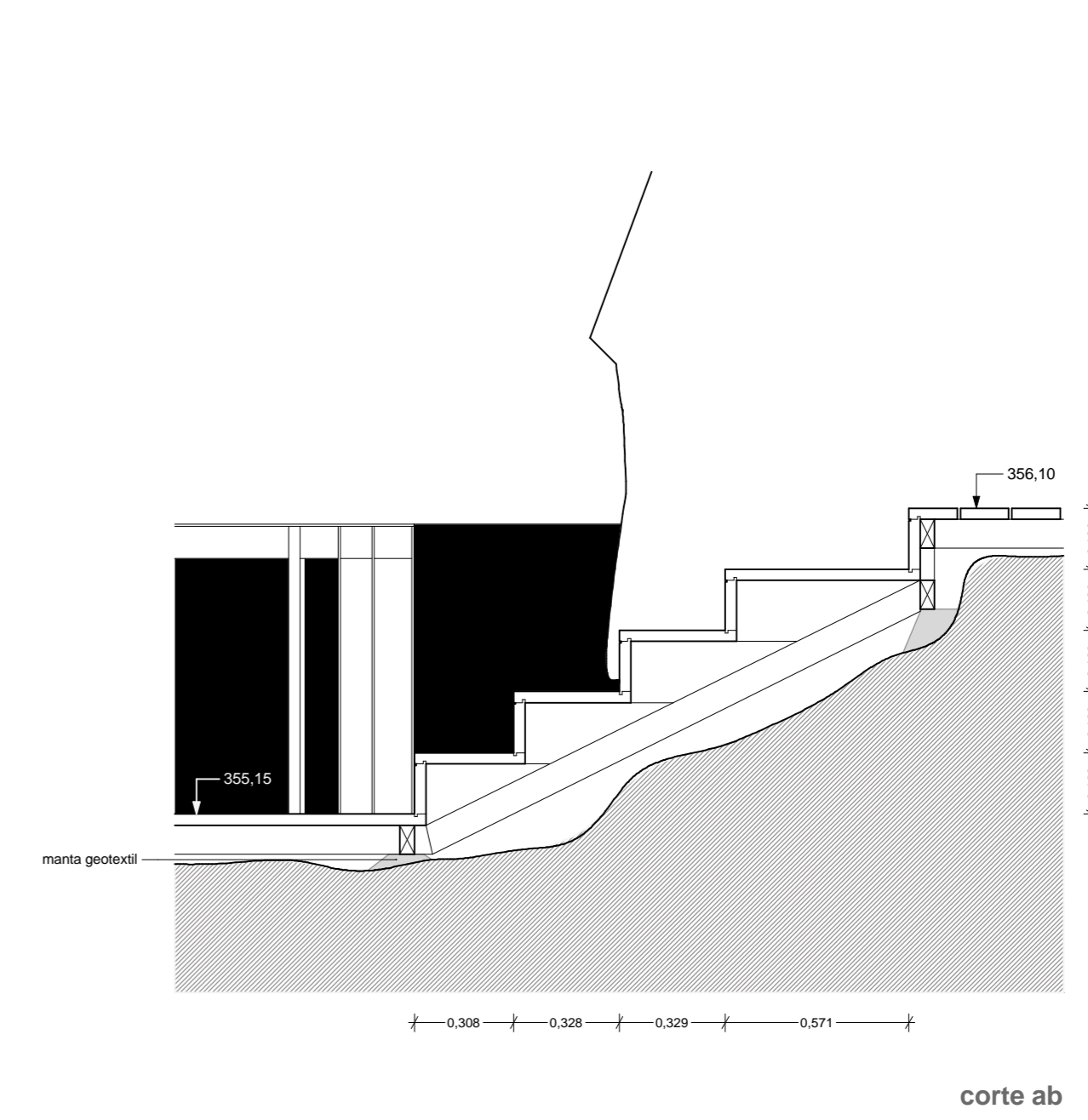
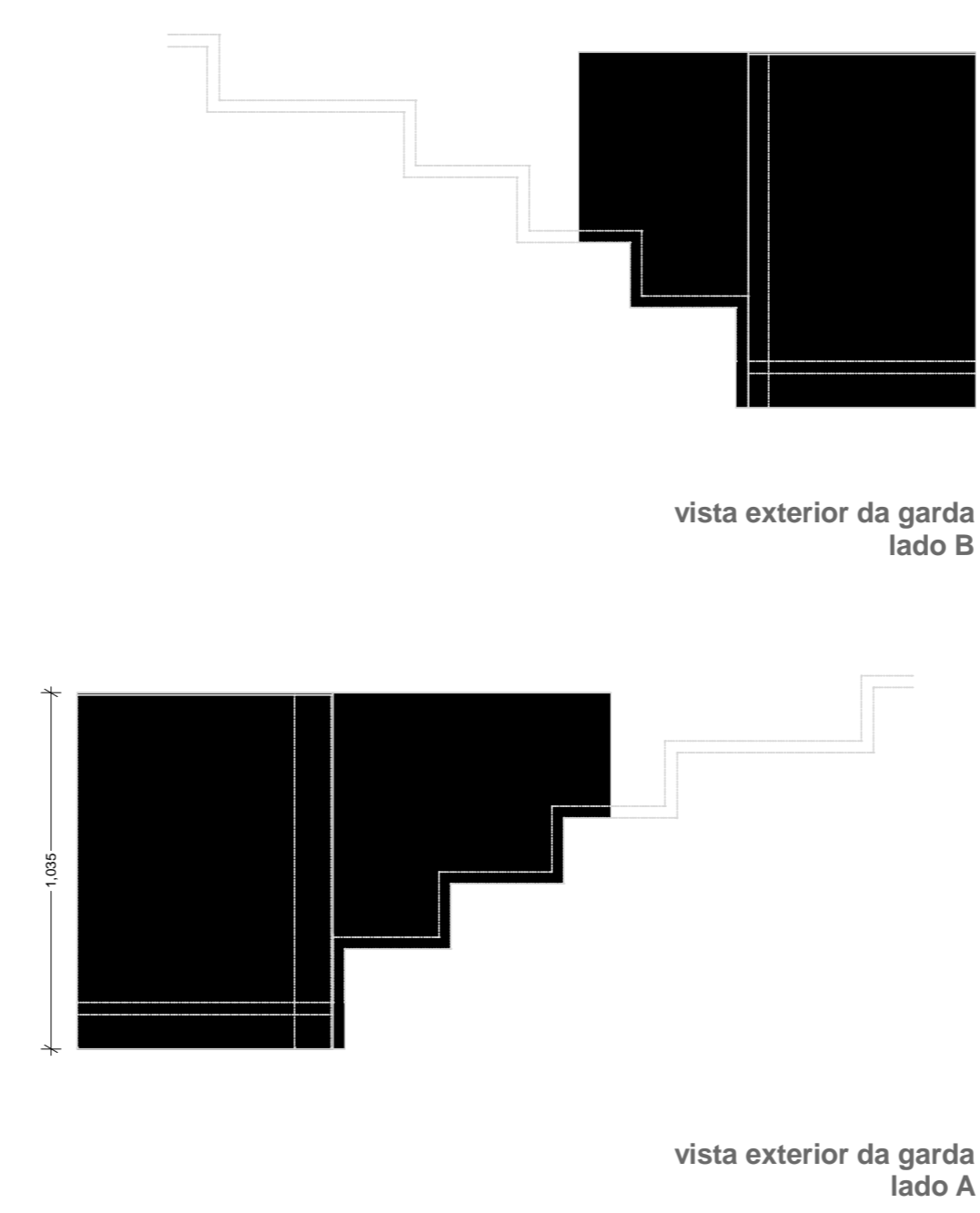
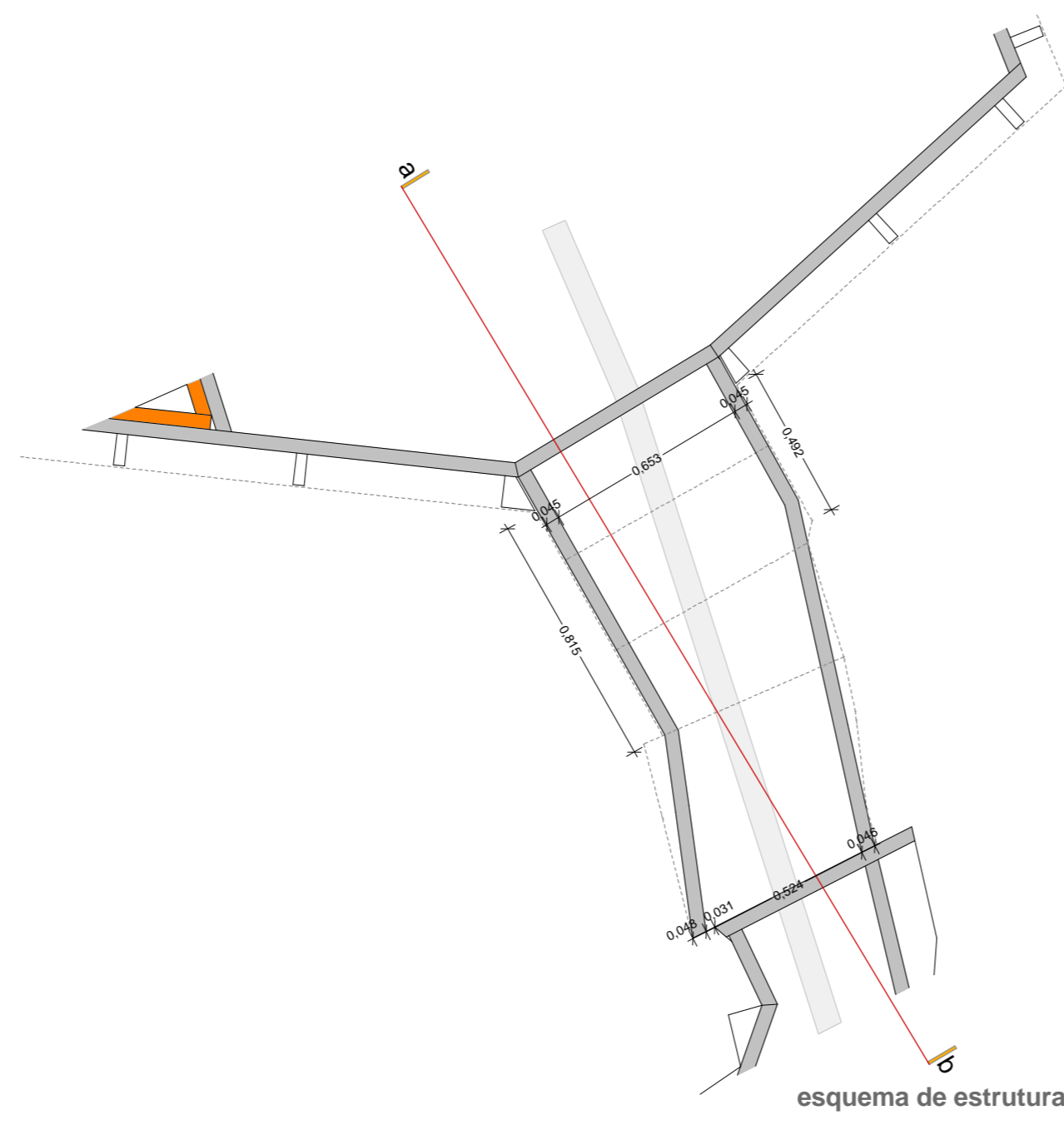
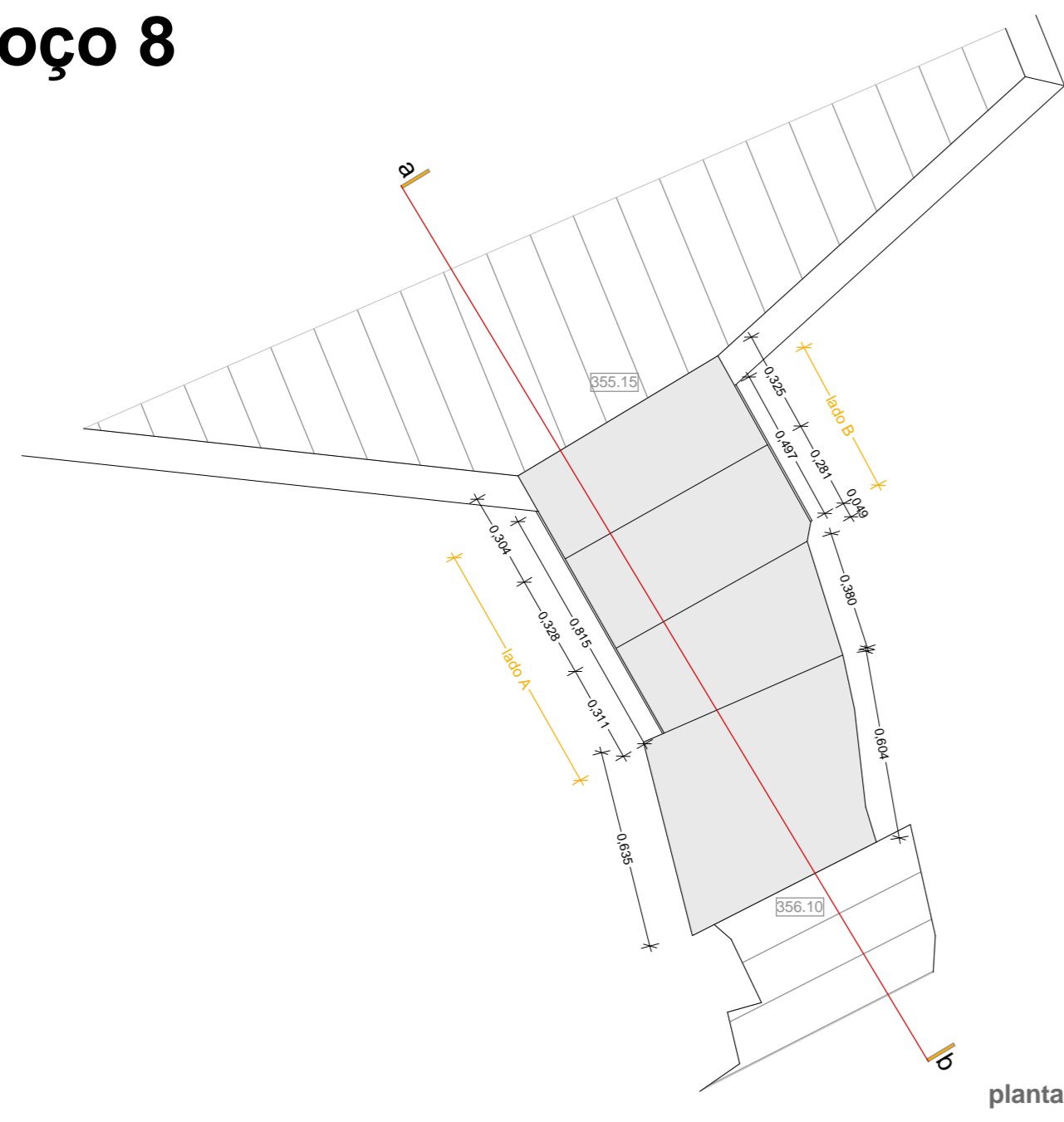


corte ab

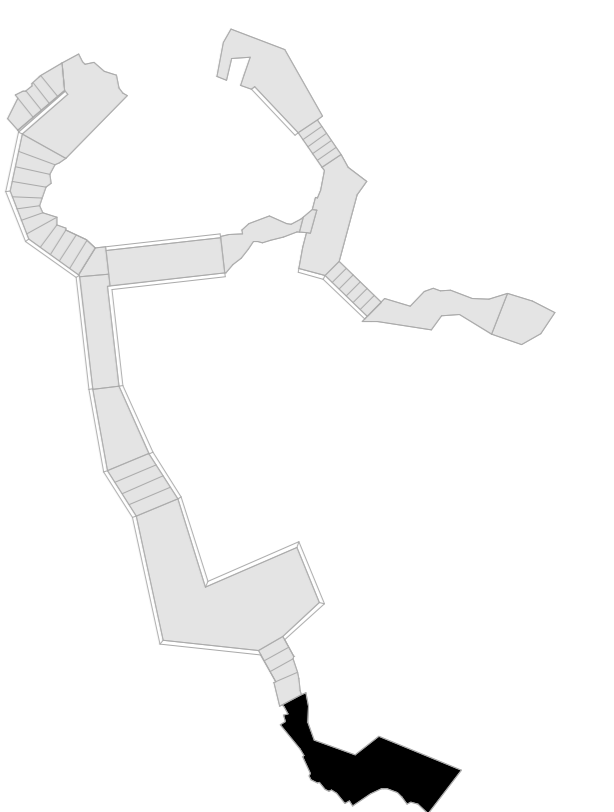
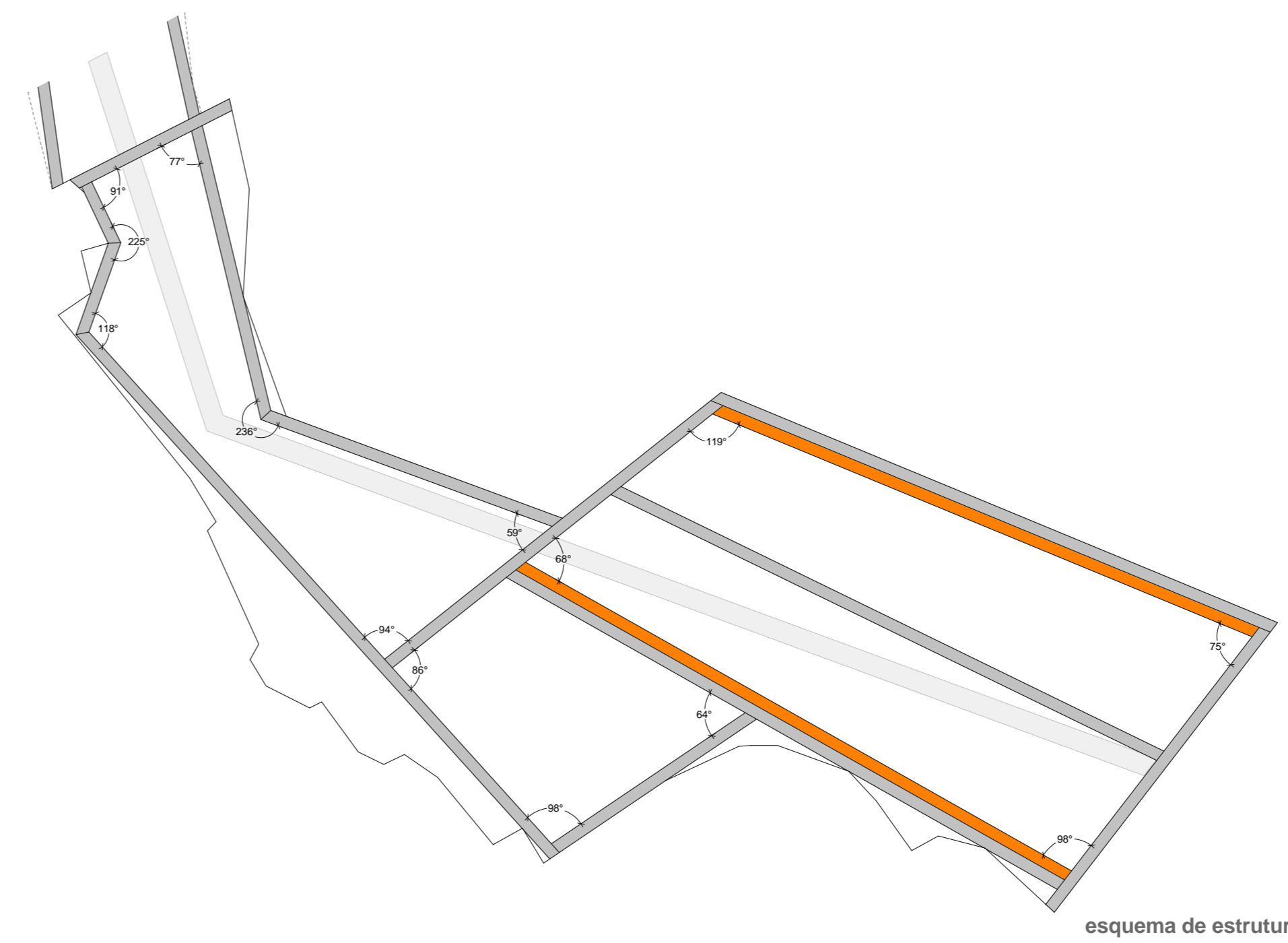
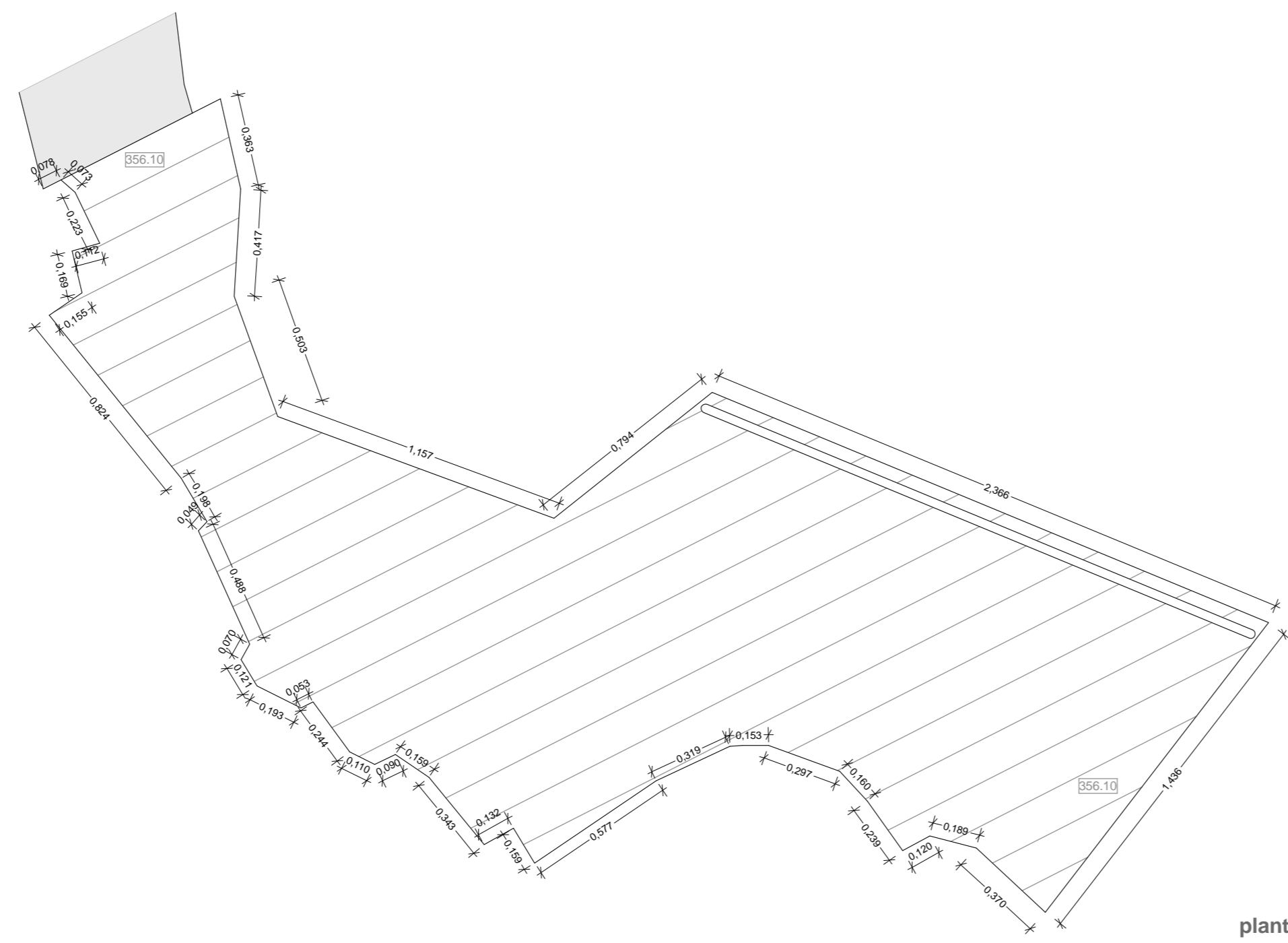


vista exterior da guarda

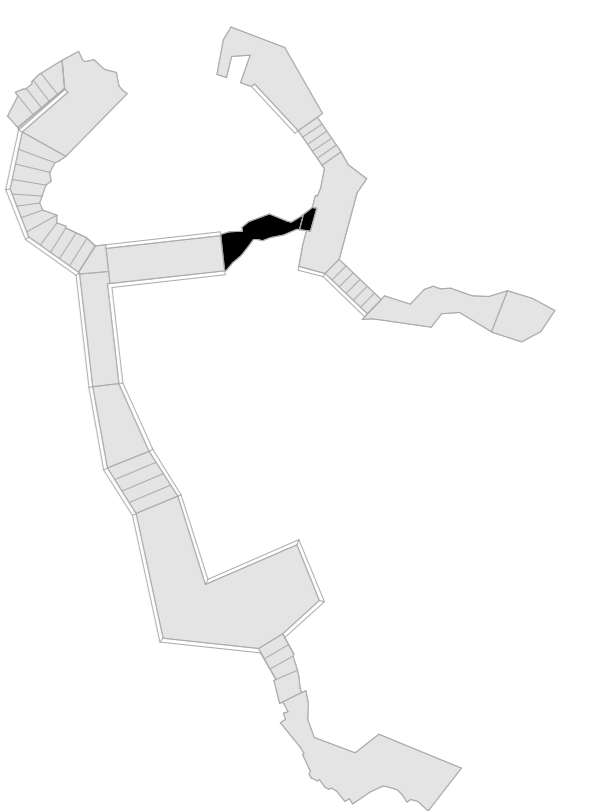
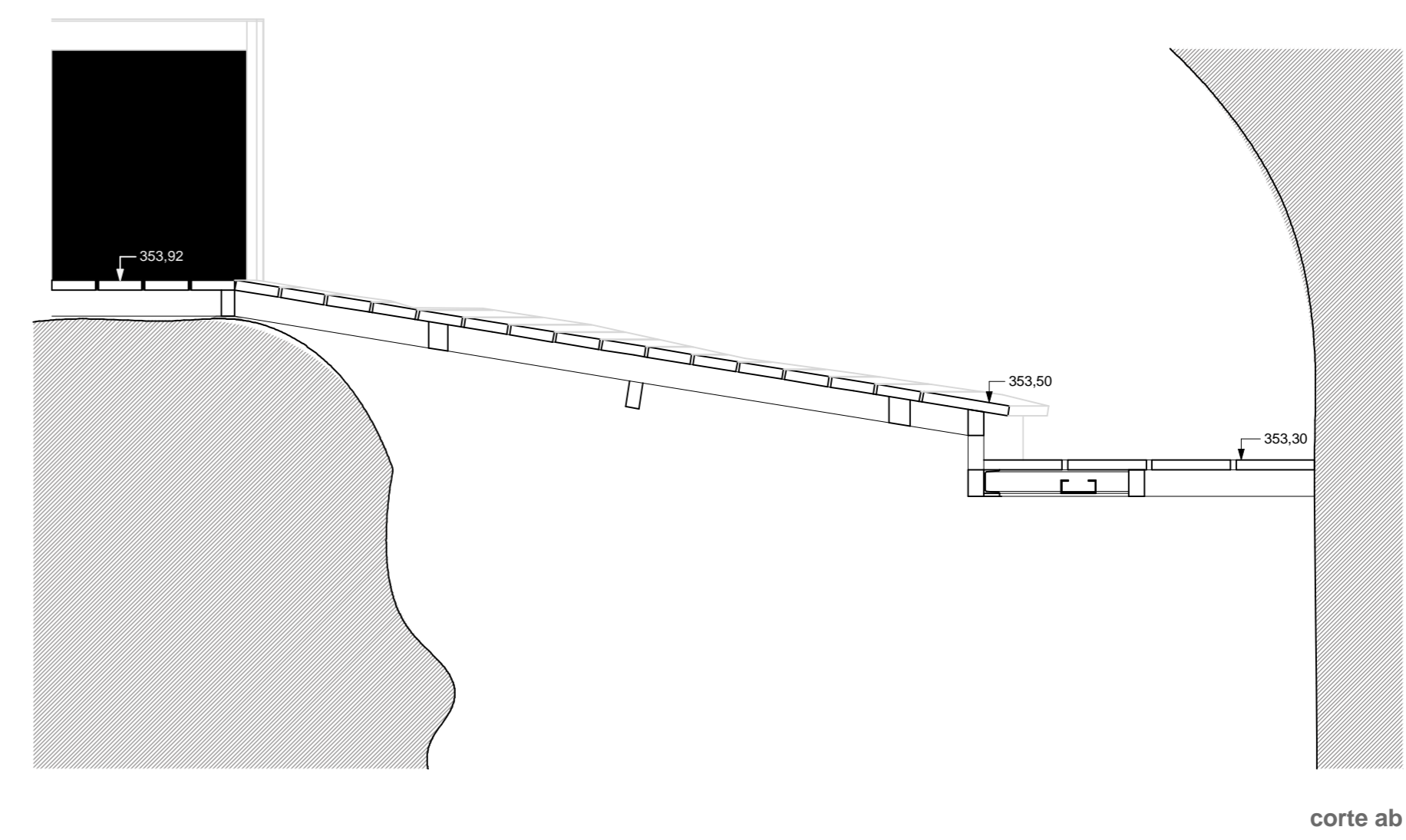
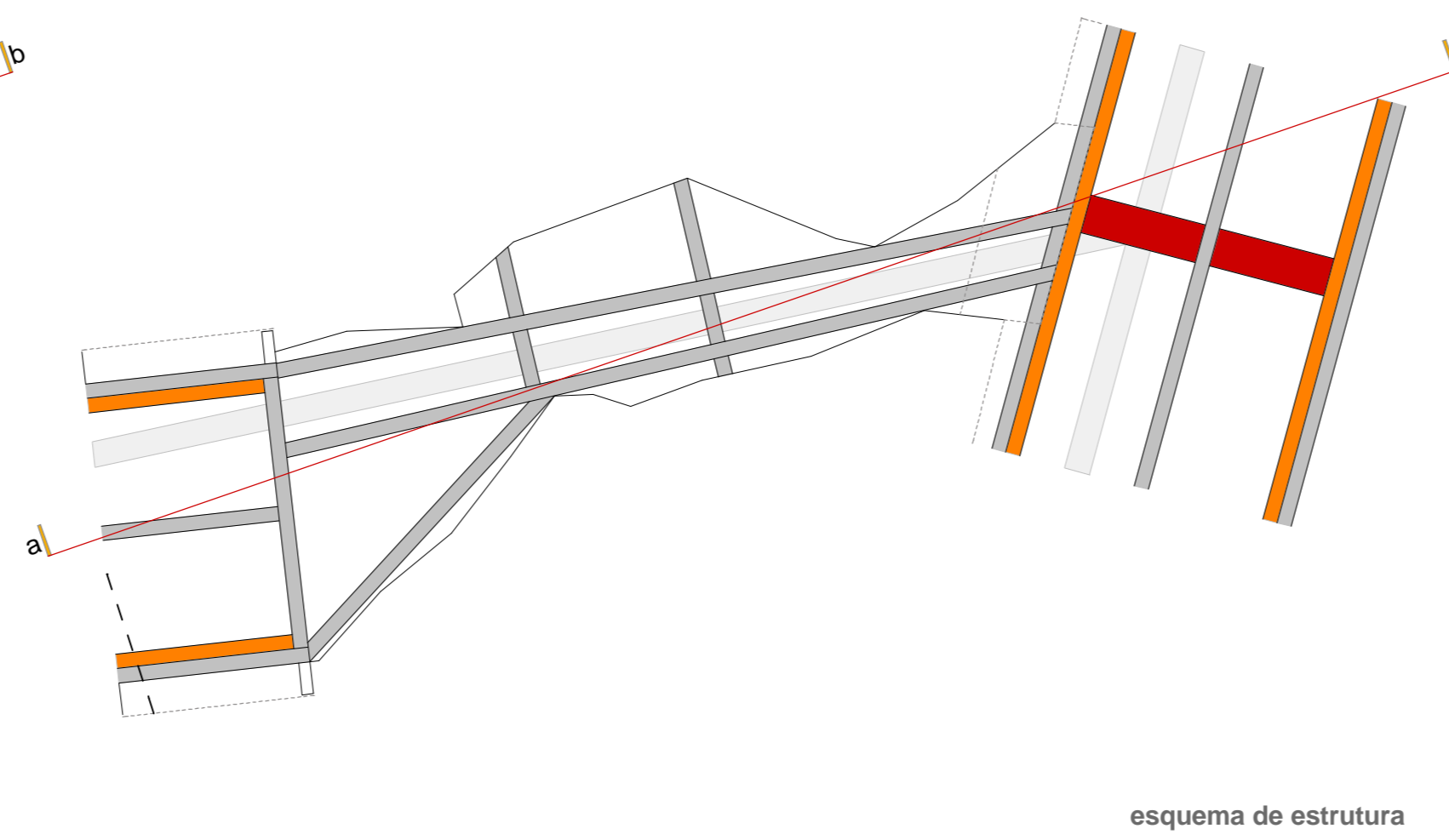
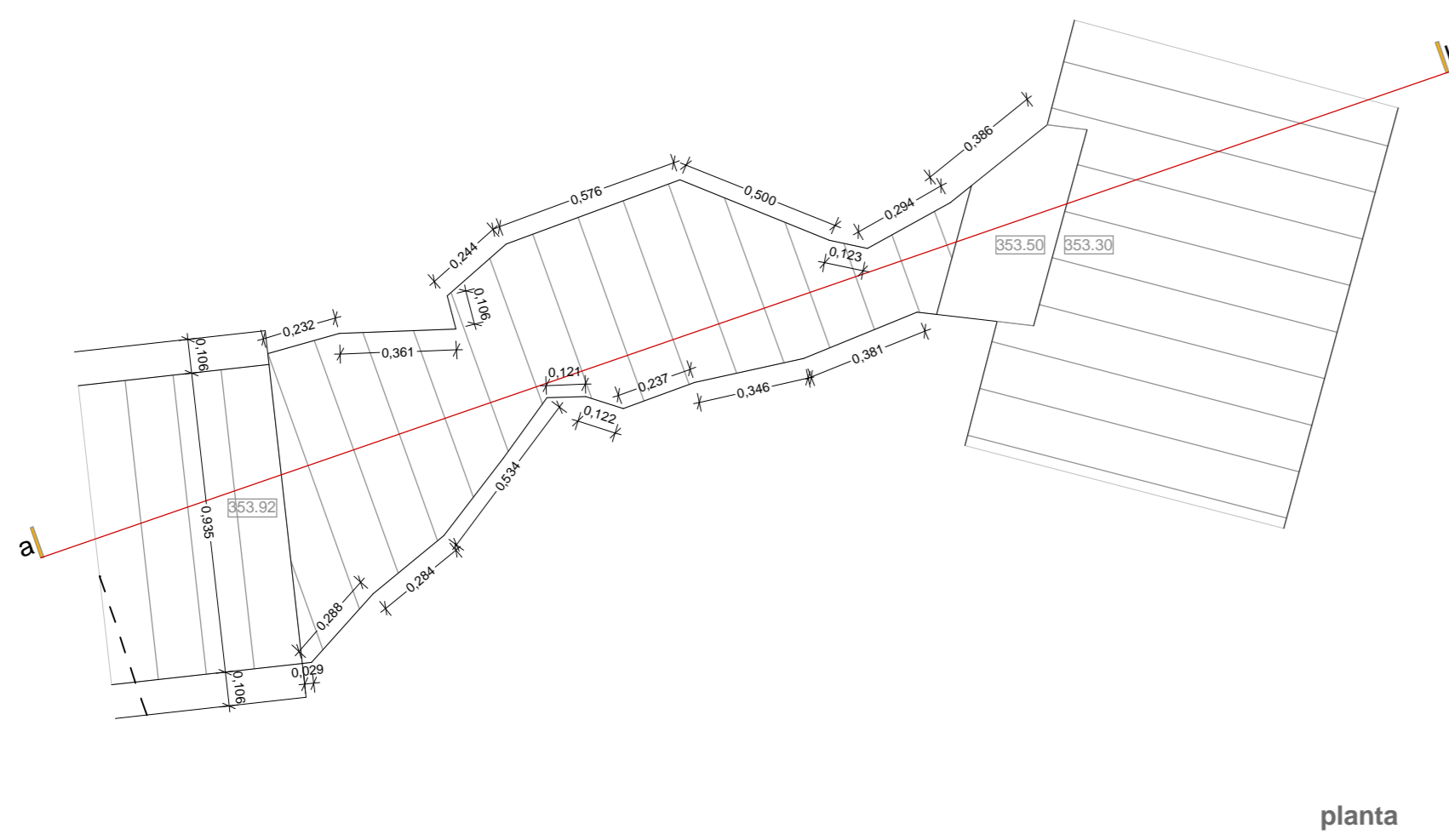
**troço 8**



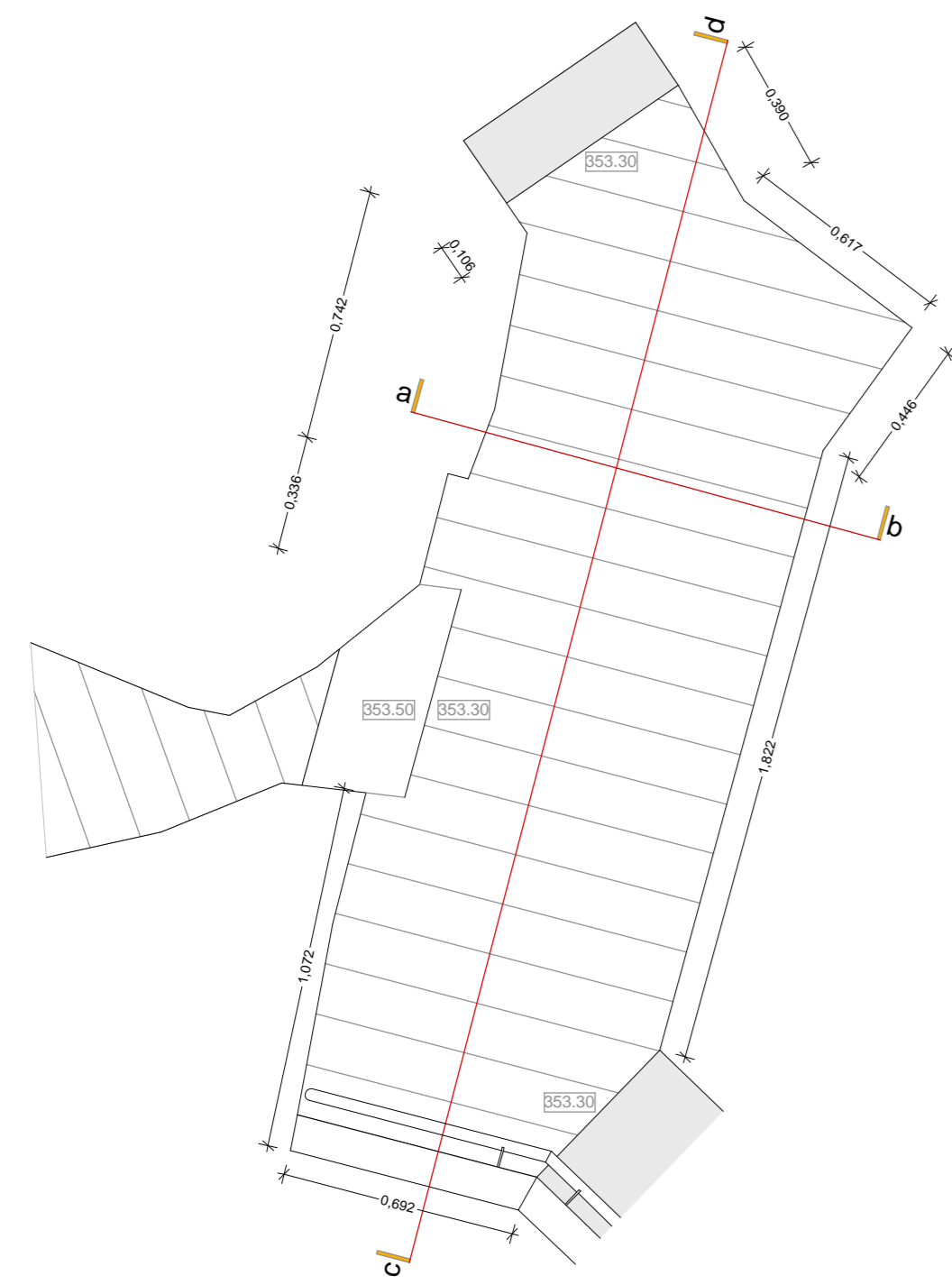
**troço 9**



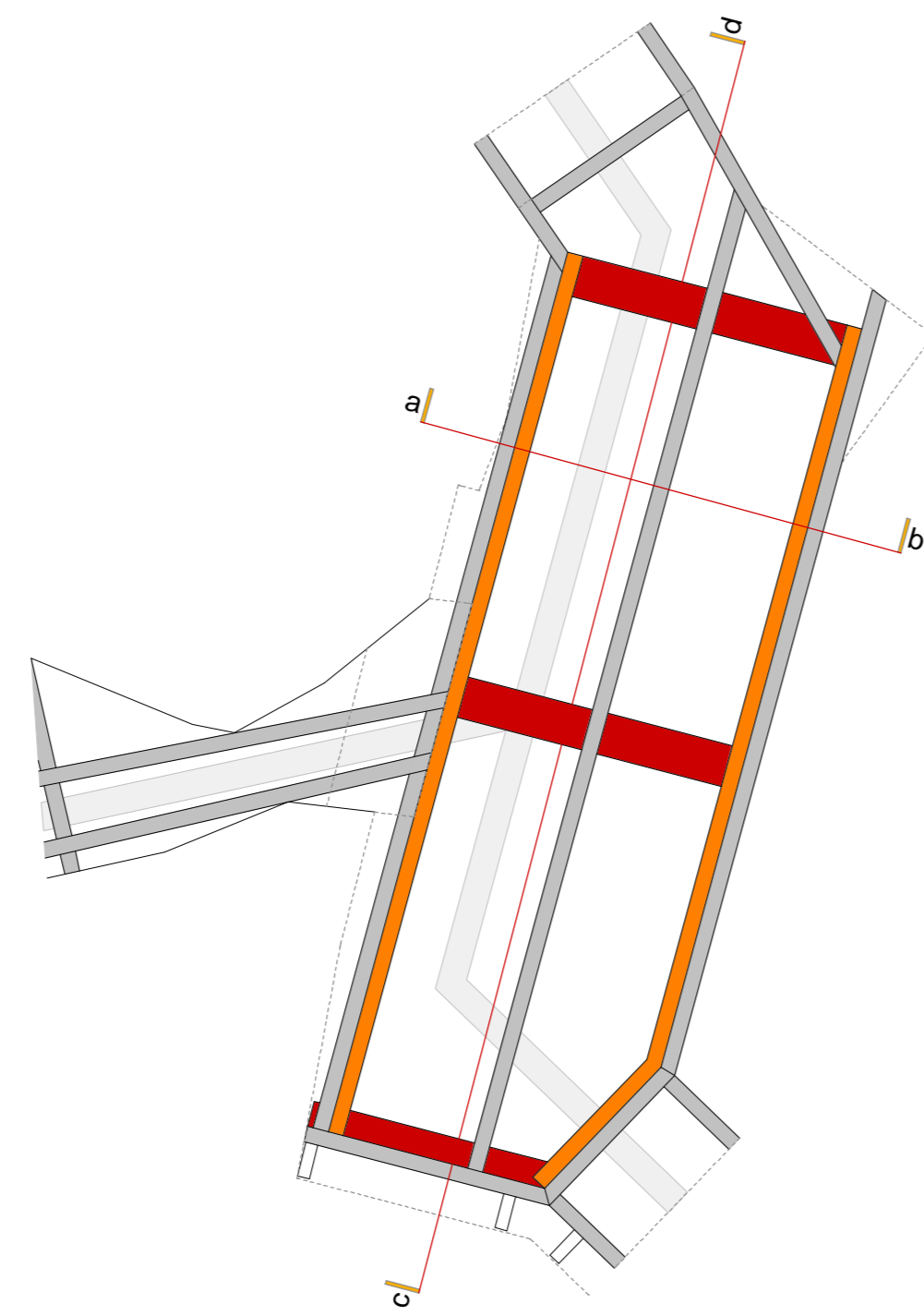
**troço 10**



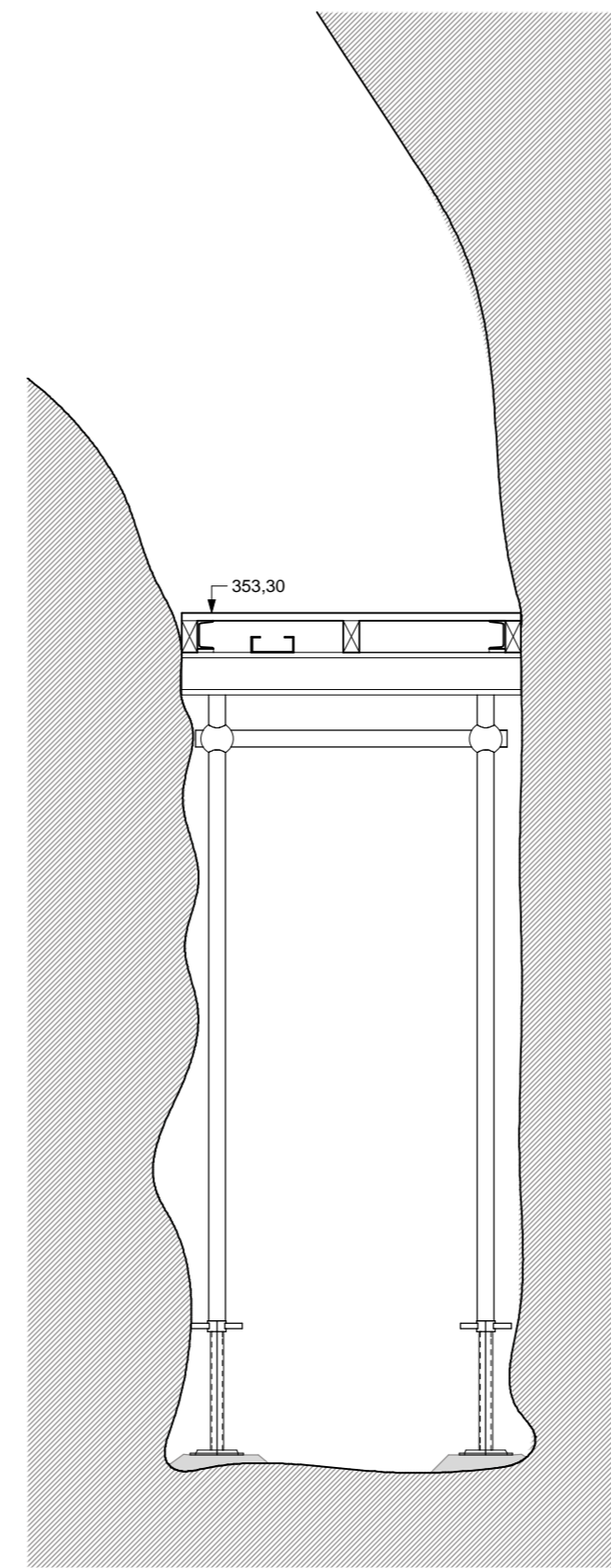
### troço 11



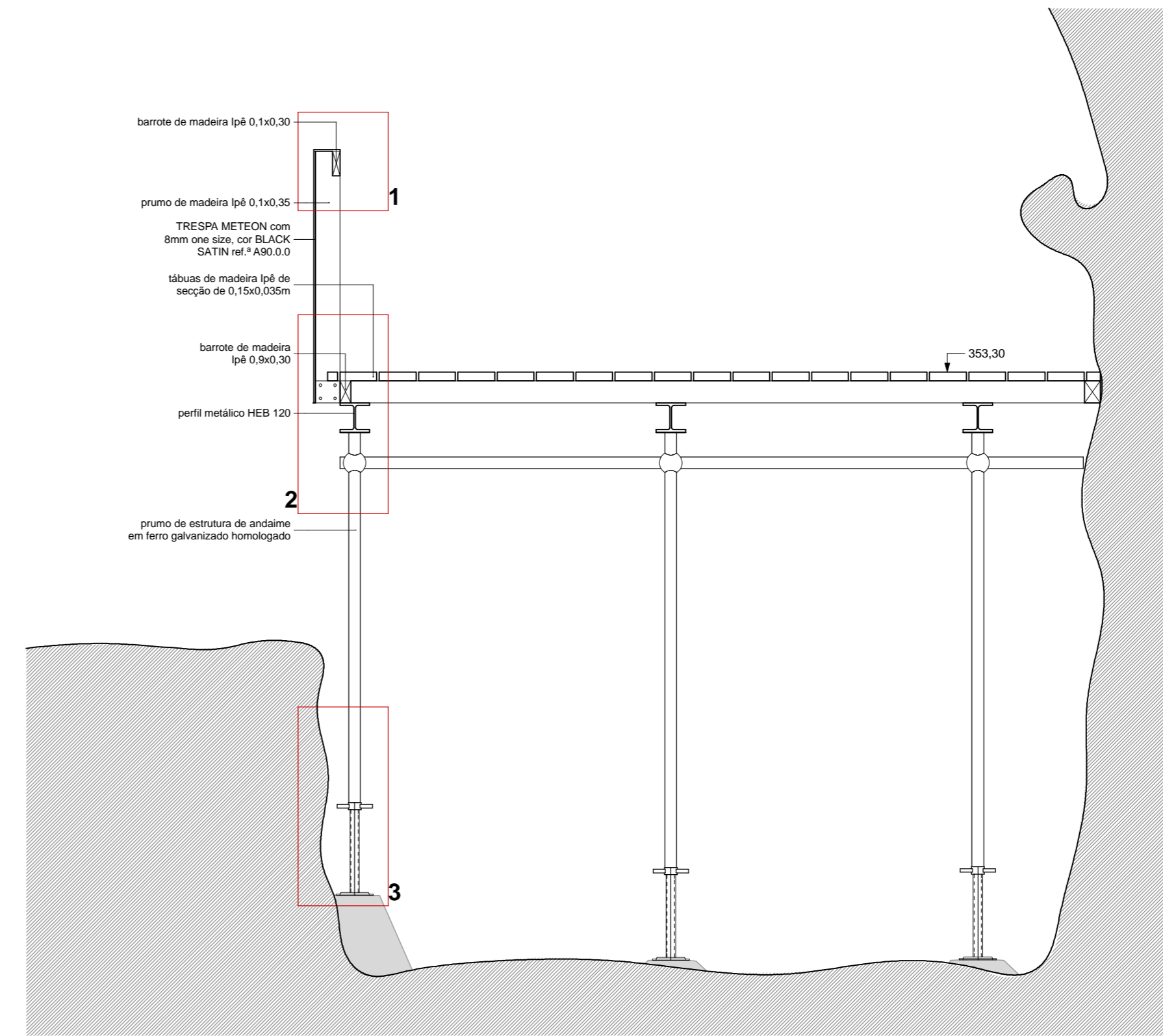
planta



esquema de estrutura



corte ab

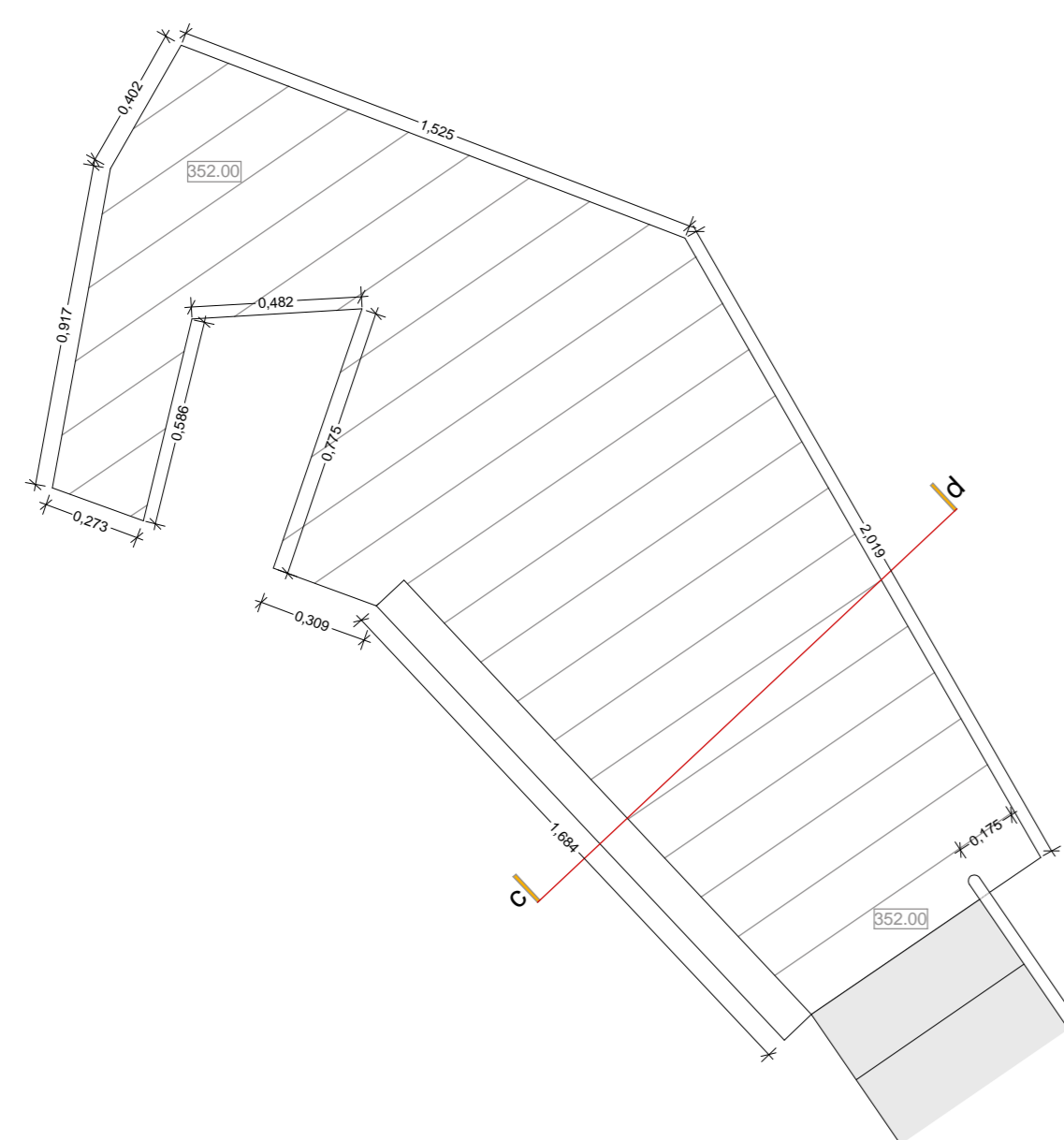


corte cd

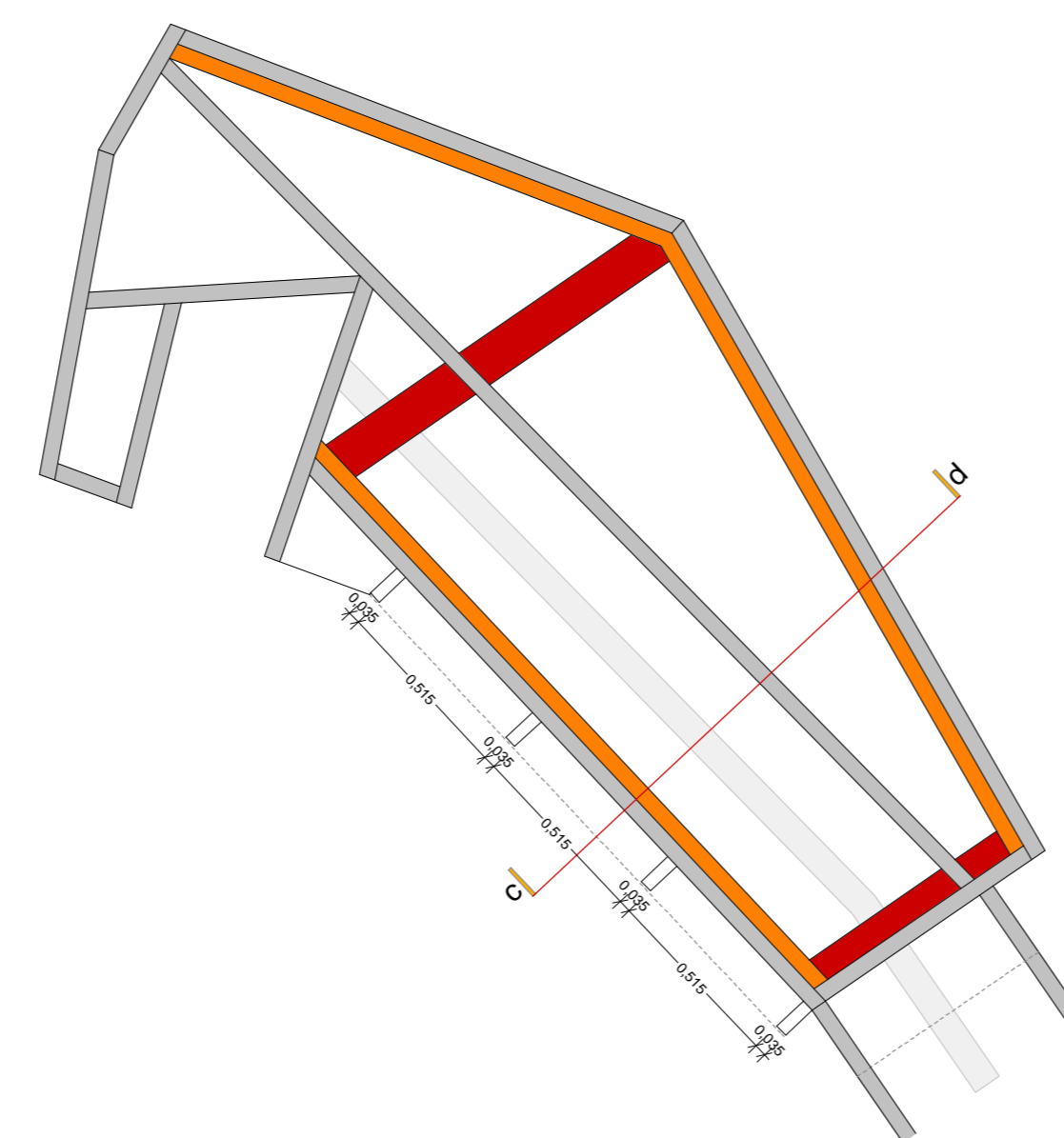


vista exterior da guarda

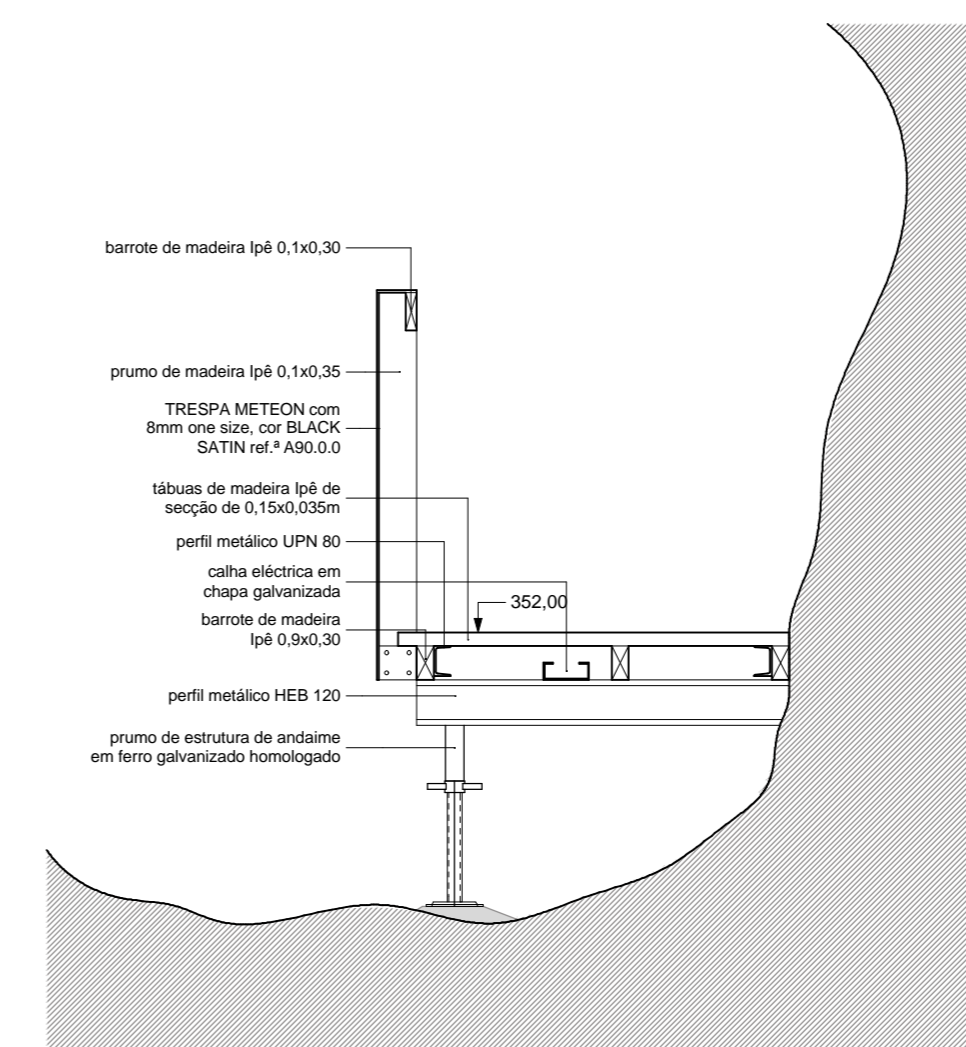
### troço 12



planta



esquema de estrutura

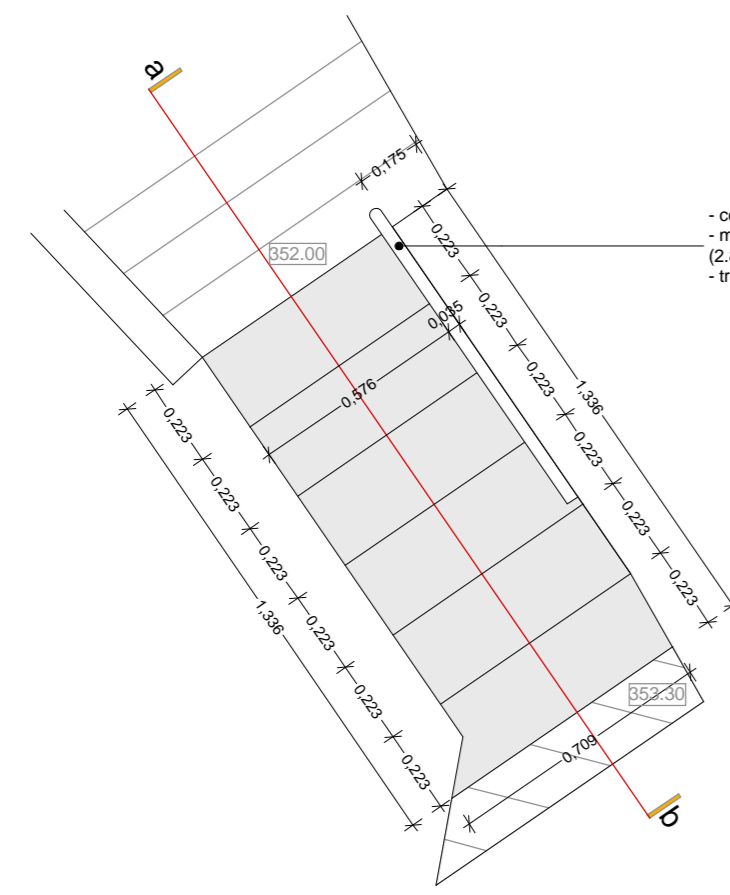


corte ab



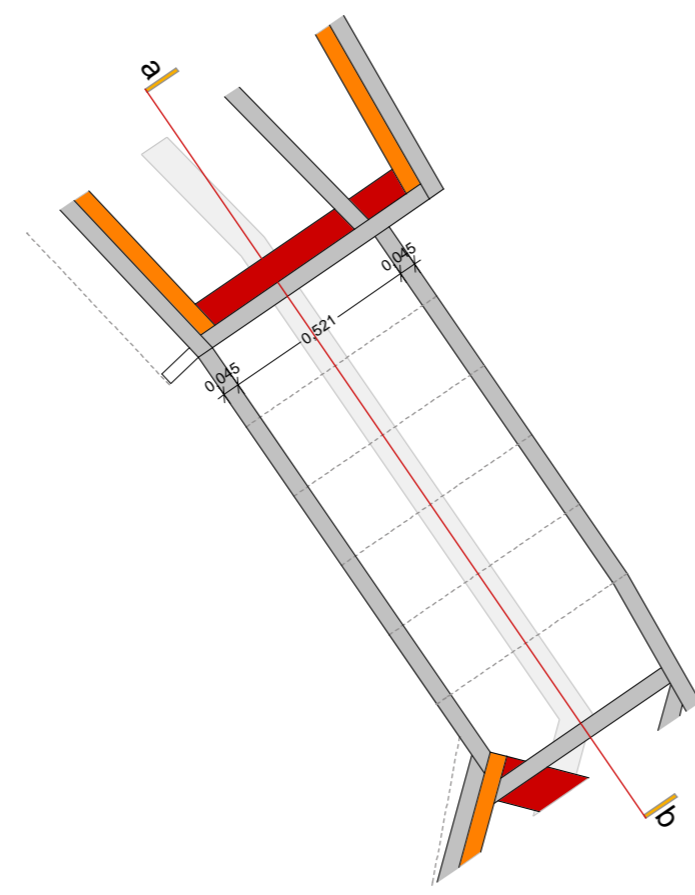
vista exterior da guarda

### troço 13

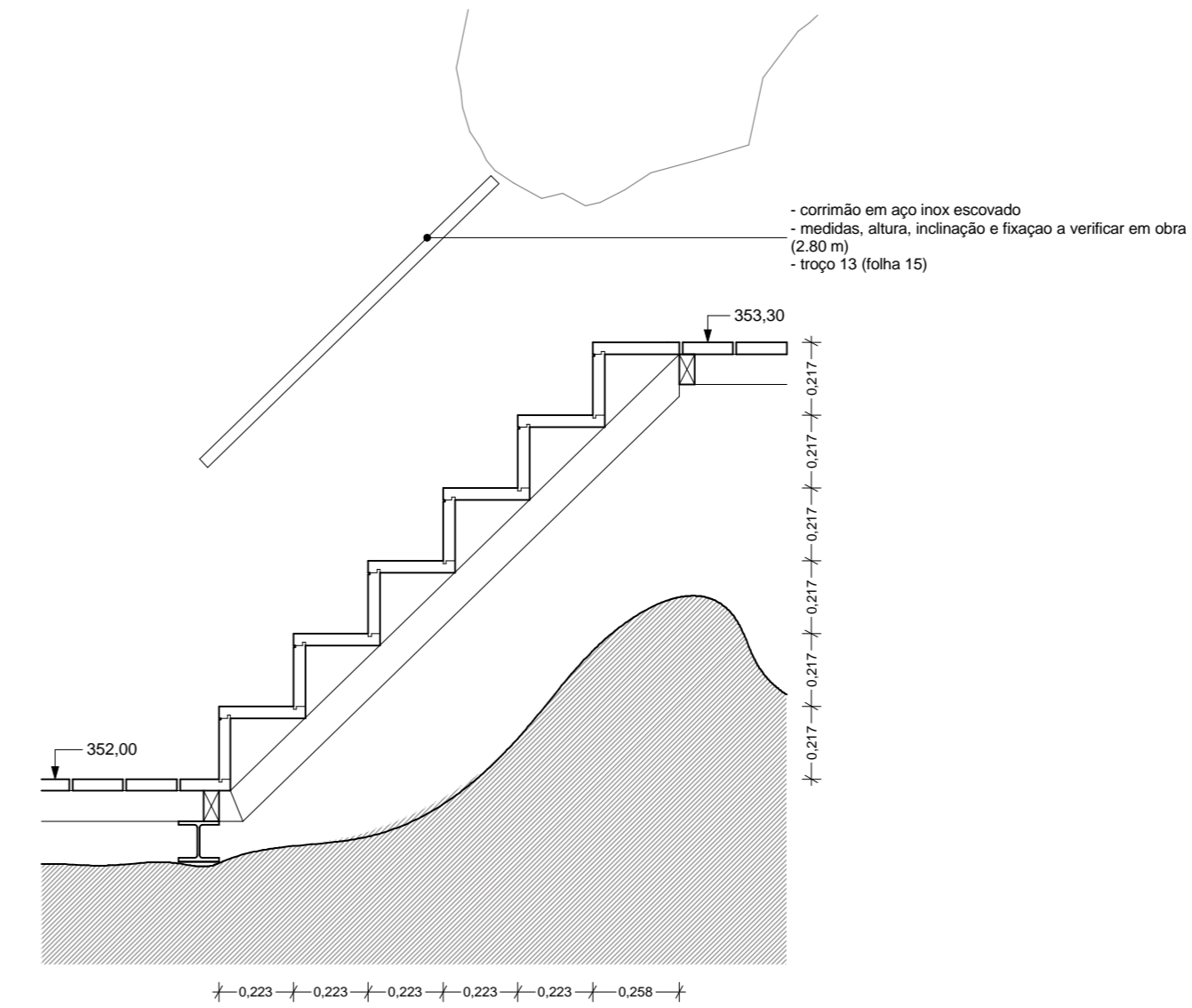


- corrimão em aço inox escovado  
- medidas, altura, inclinação e fixação a verificar em obra (2,50 m)  
- troço 13 (folha 15)

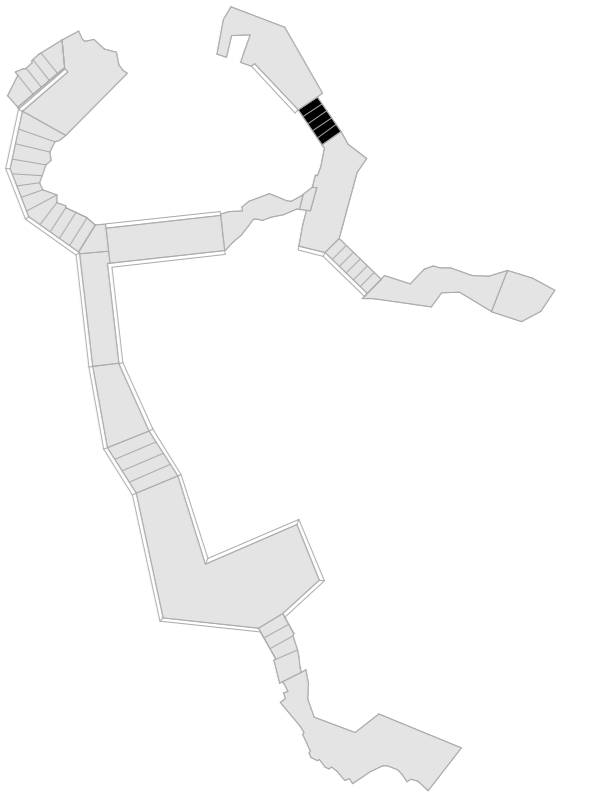
planta



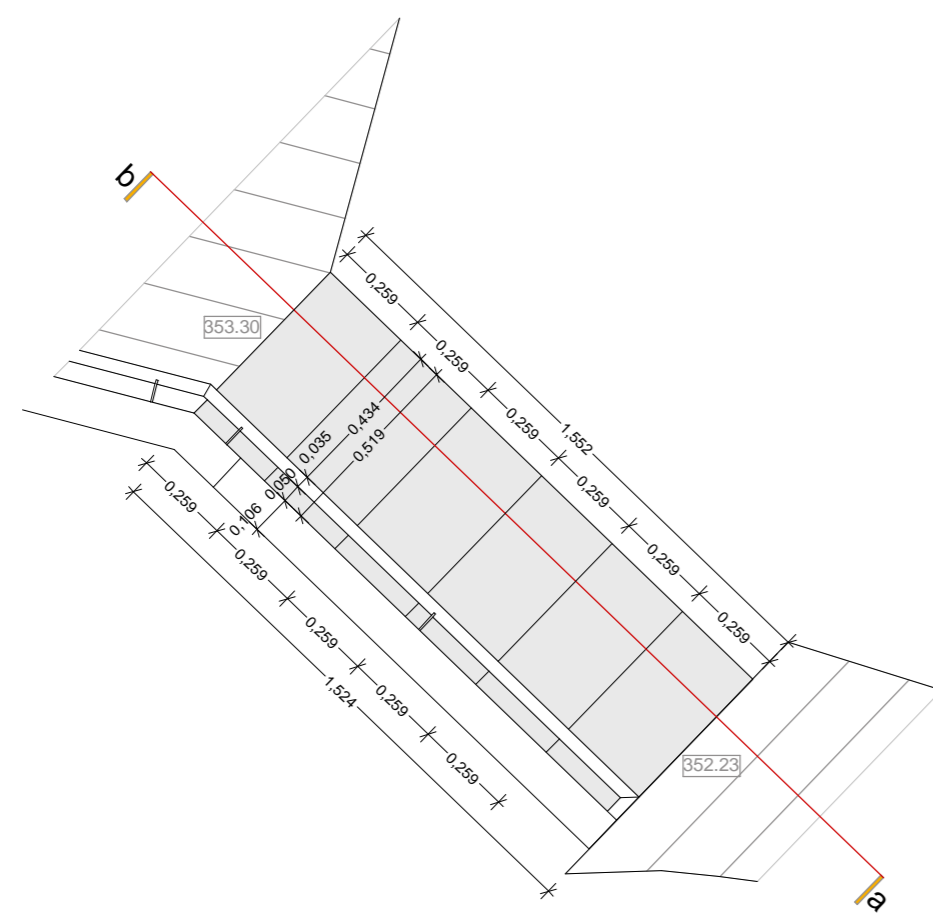
esquema de estrutura



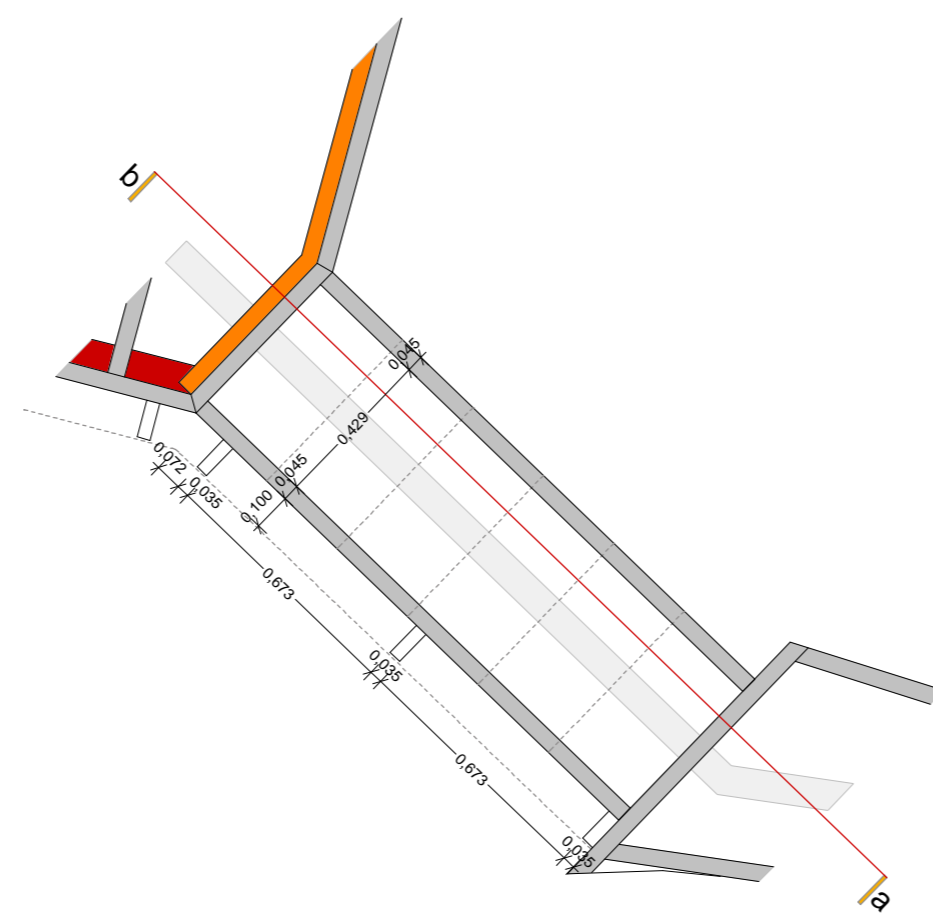
corte ab



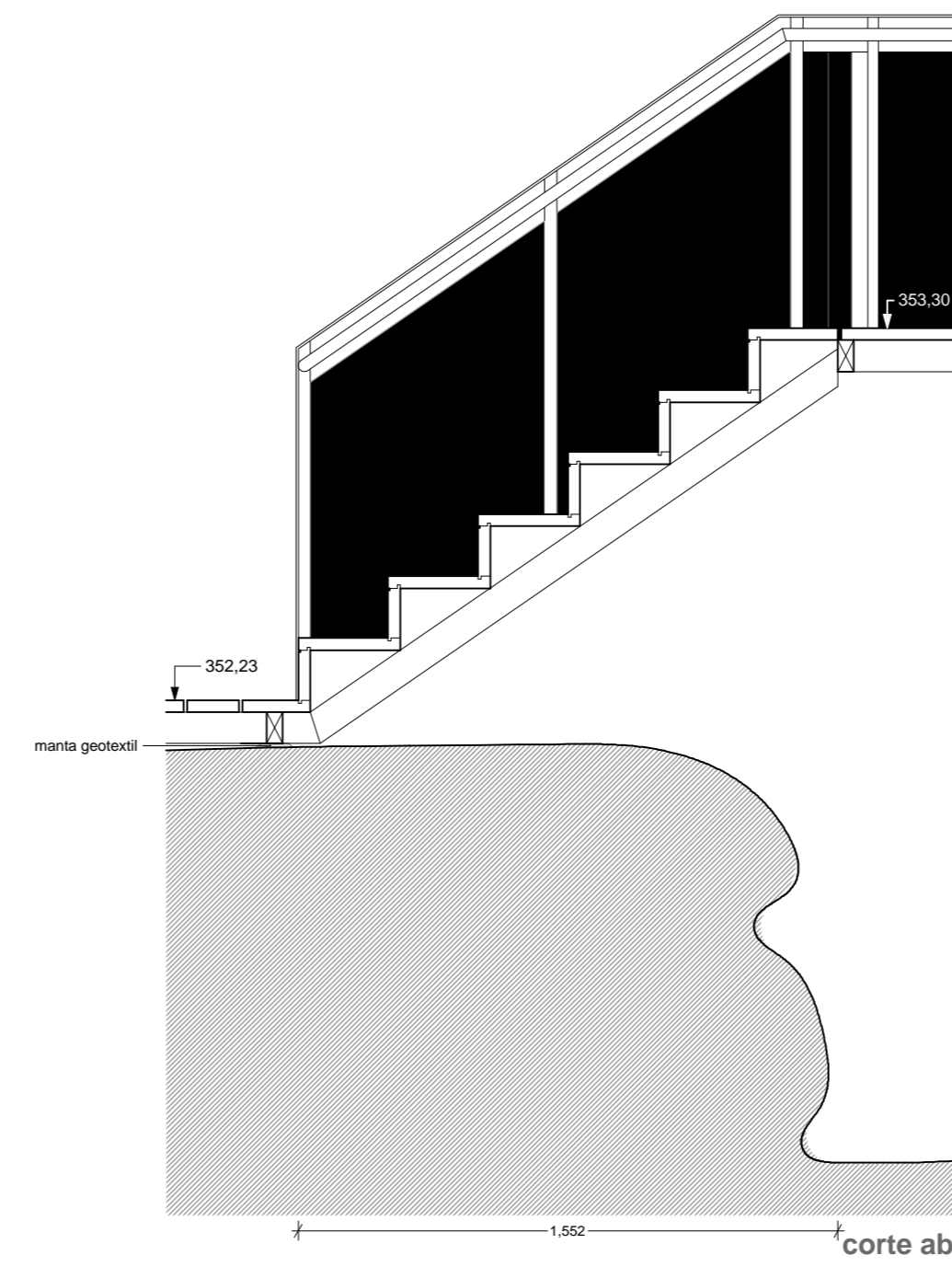
### troço 14



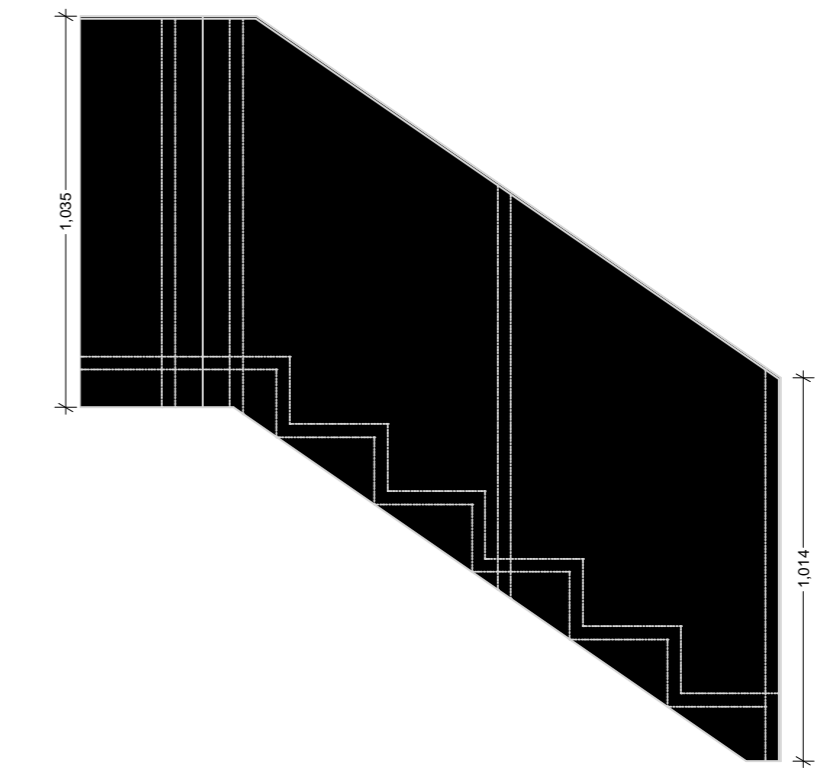
planta



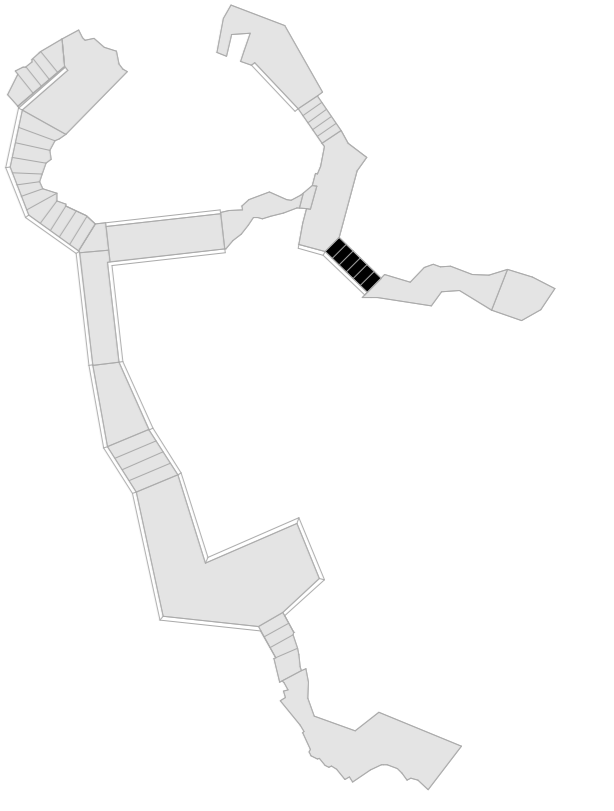
esquema de estrutura



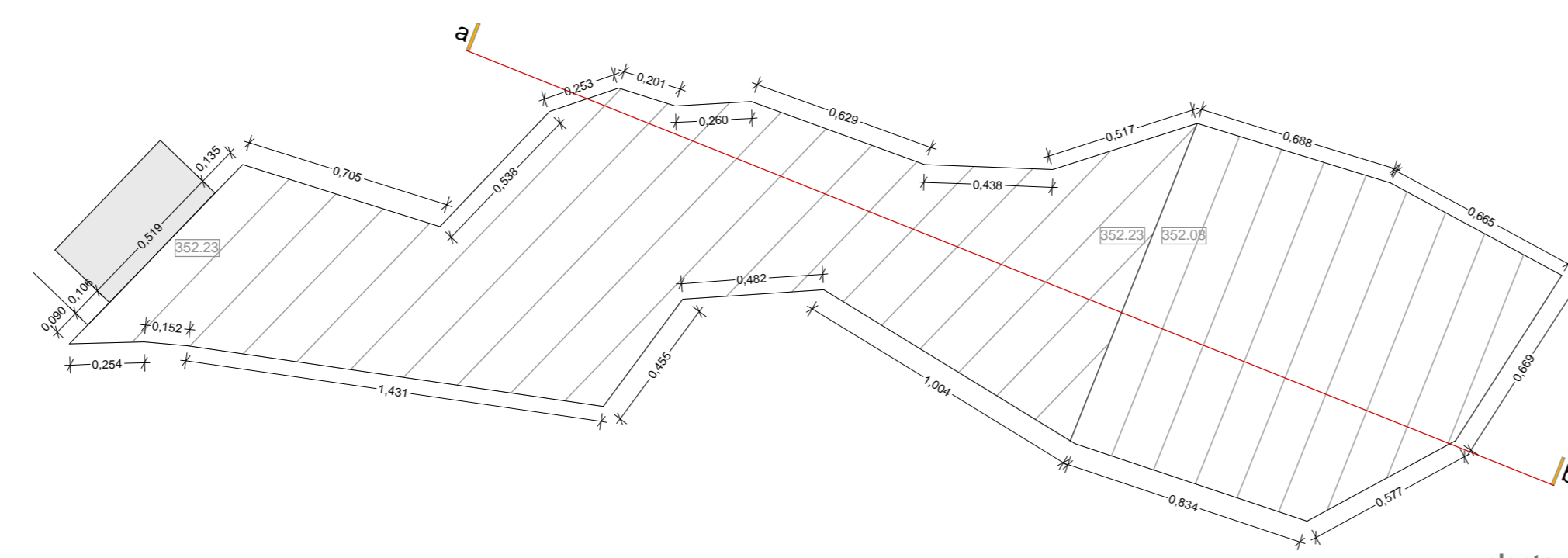
corte ab



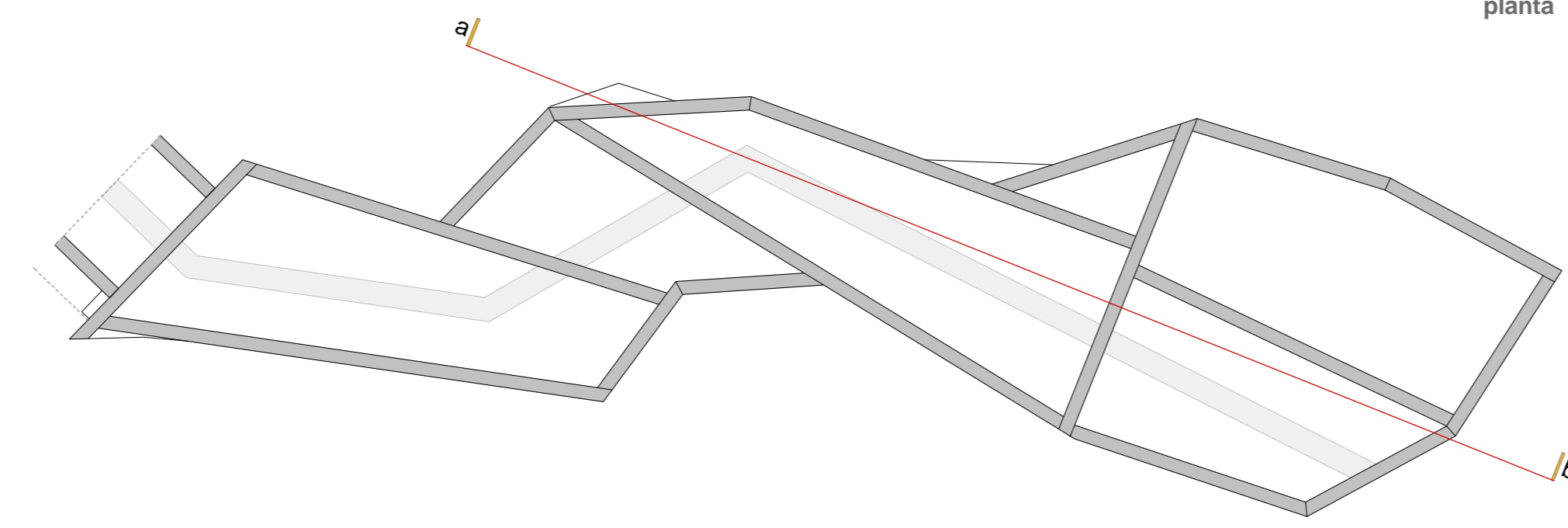
vista exterior da guarda



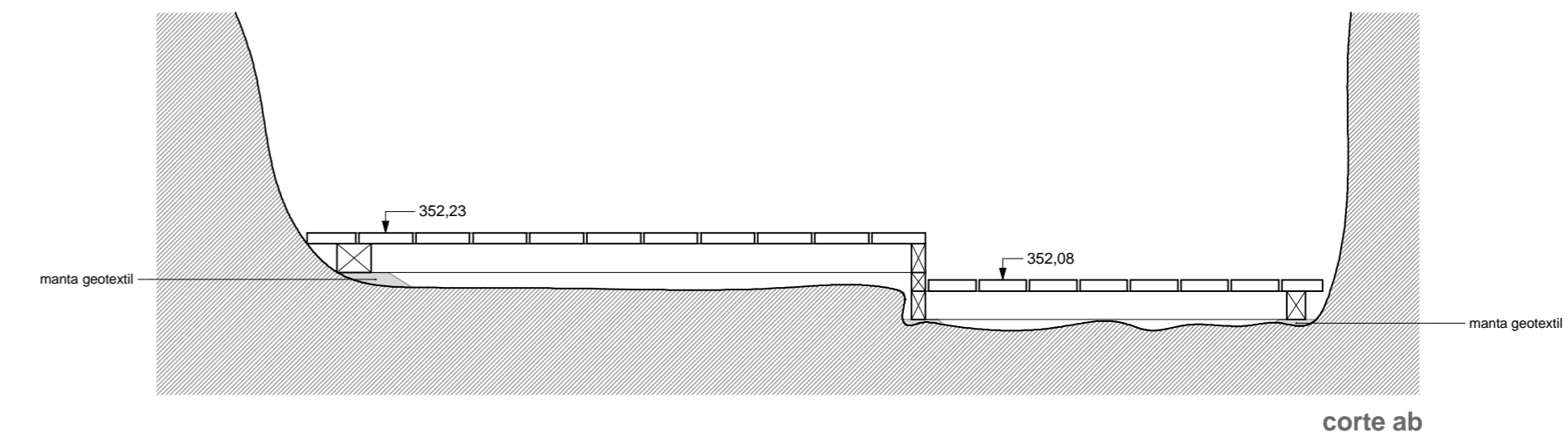
### troço 15



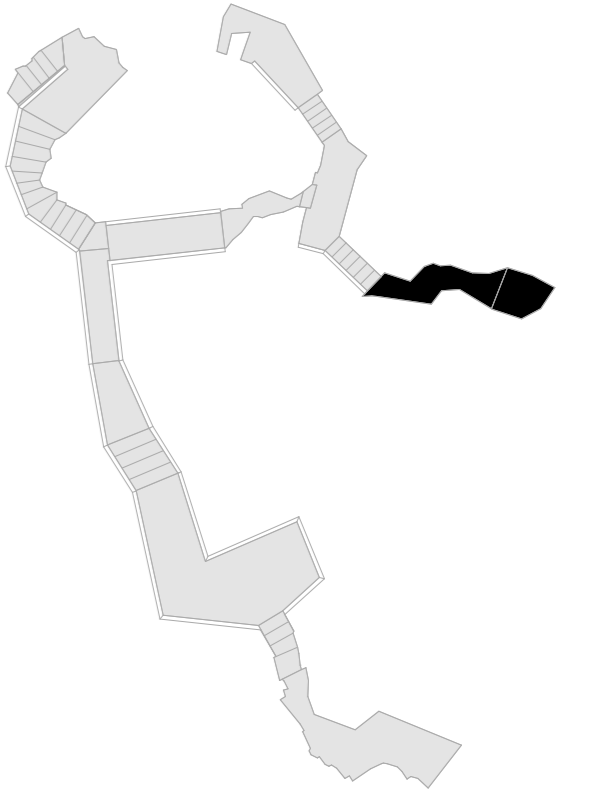
planta

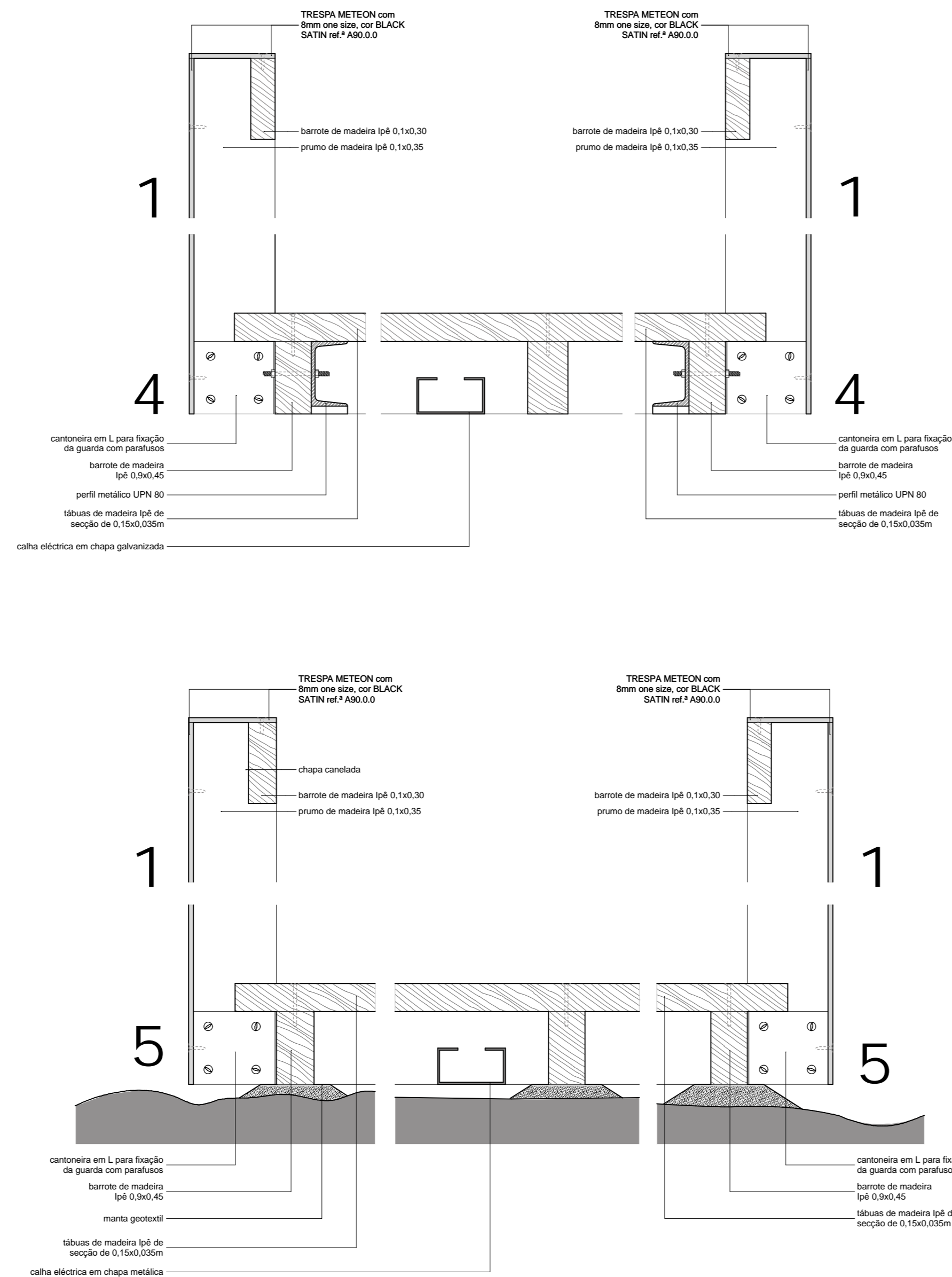
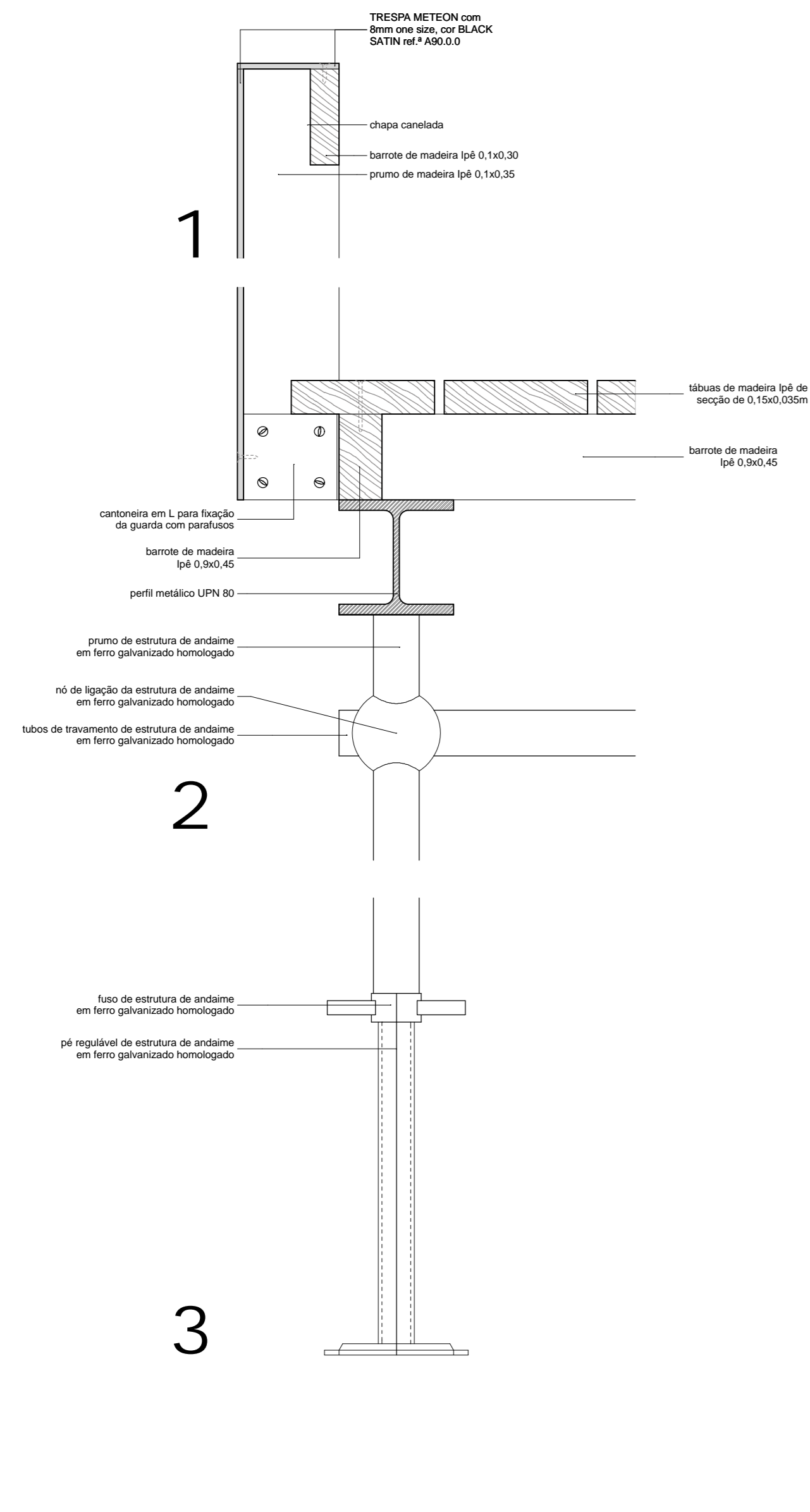


esquema de estrutura

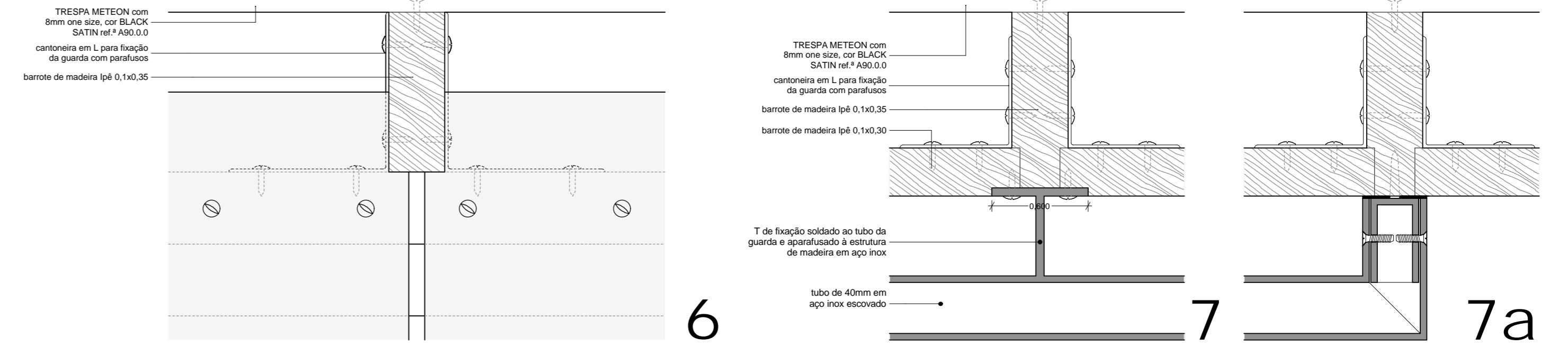


corte ab

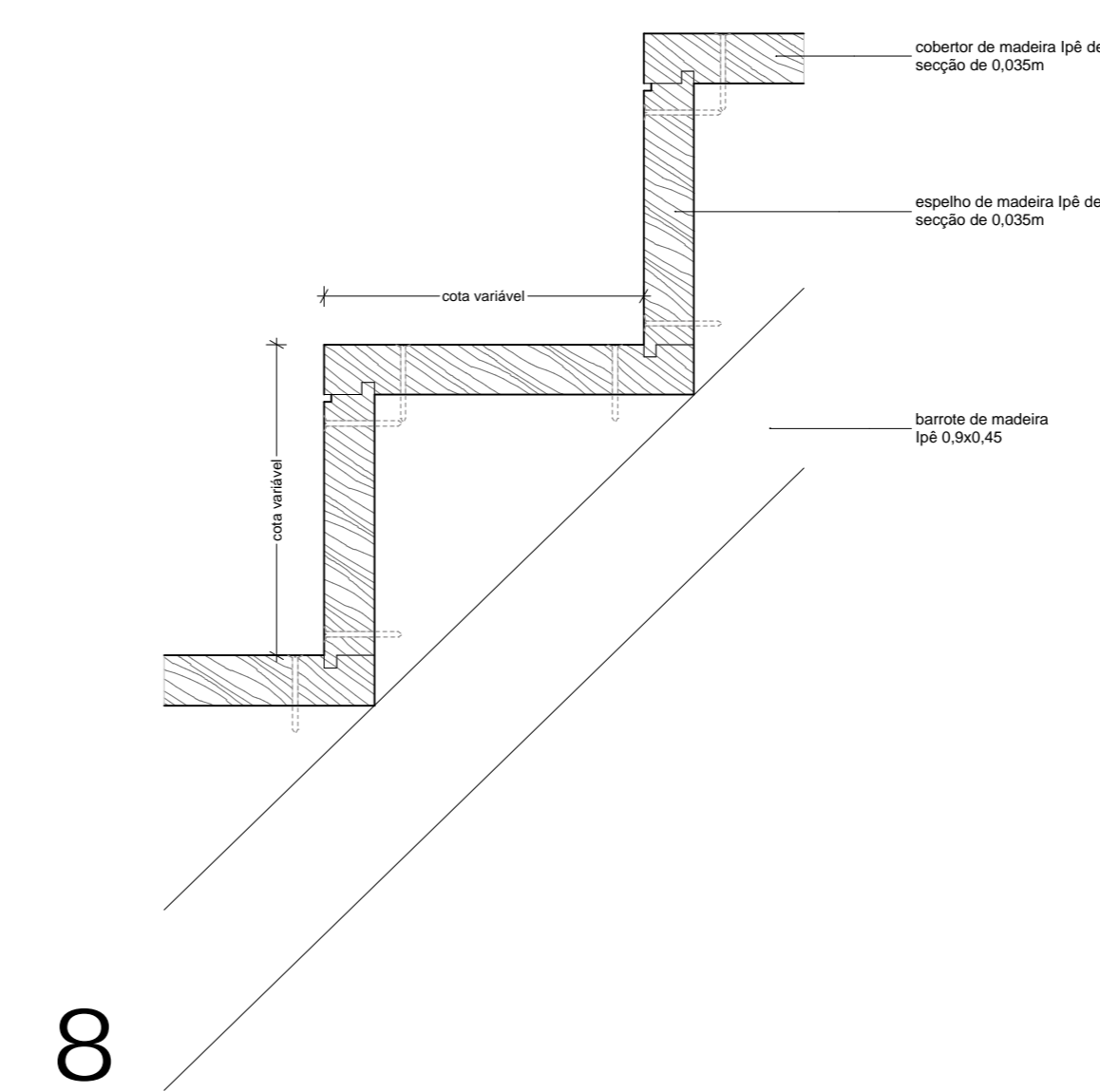




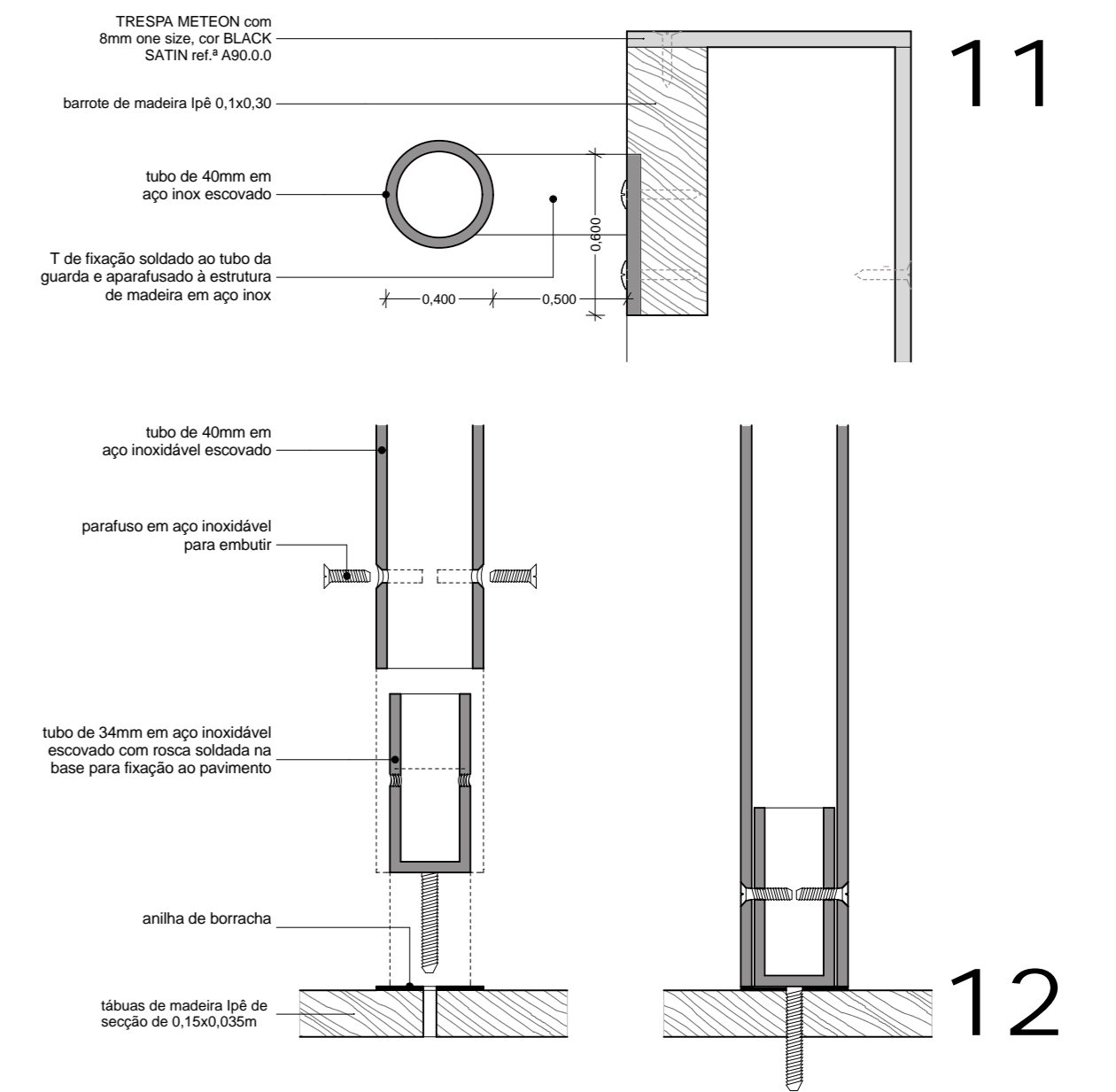
### Pormenor tipo das fixações das guardas



### Pormenor tipo das escadas de madeira



### Pormenor tipo das guardas de aço inox escovado



### Pormenor do alçapão (troço 1)

