53º CONGRESSO DO IBRACON 2011

SEMINÁRIO GRANDES CONSTRUÇÕES

A COPA DE 2014

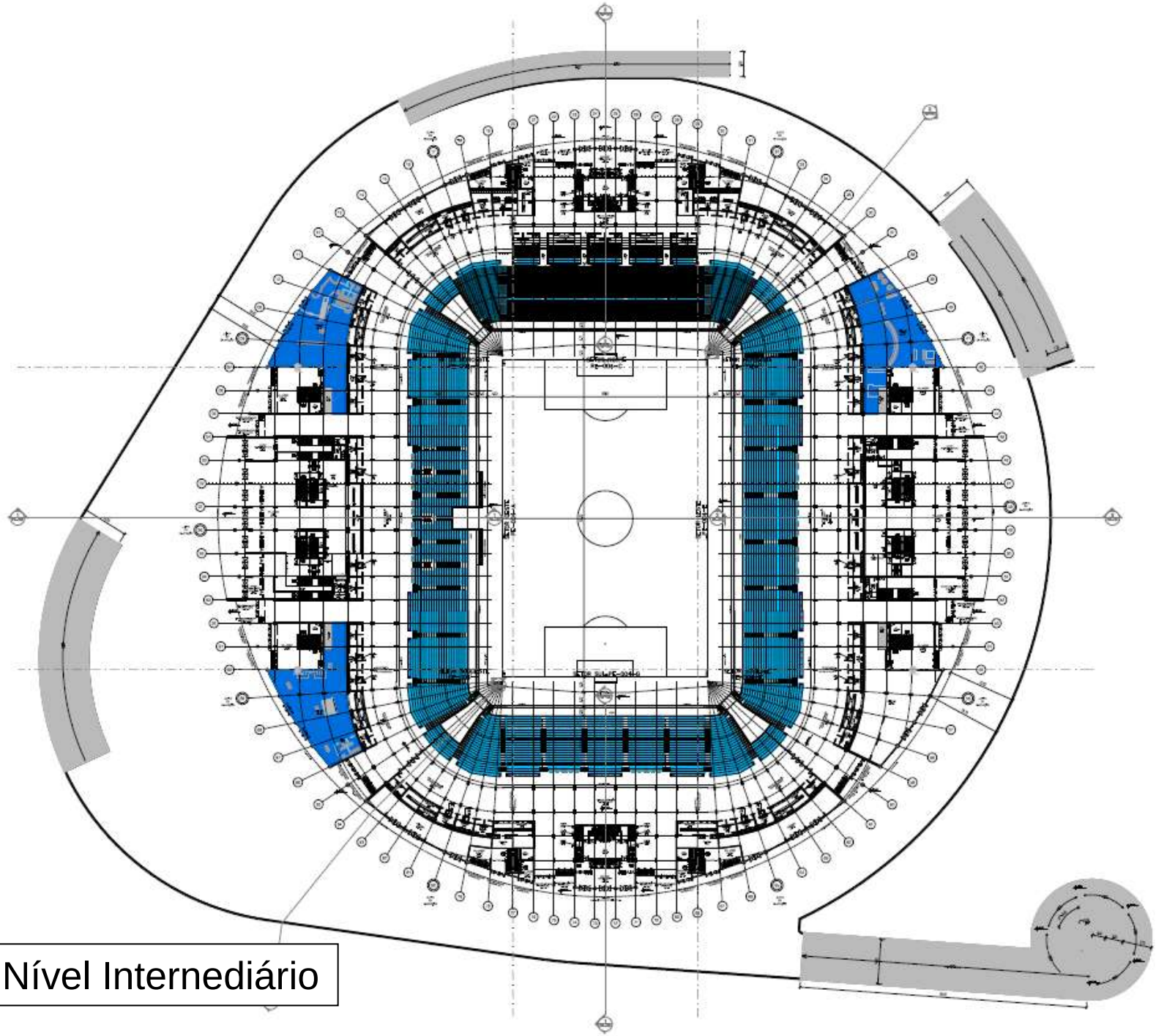
SIST. CONSTRUTIVOS COMO FERRAMENTA PARA A CONSTRUÇÃO RÁPIDA DE ESTADIOS, PORTOS, PONTES, ETC -2014

Fernando Stucchi 11/2011

1. Avanços possíveis na Préfabricação
   1 - Exemplo das Arenas da Copa 2014
   2 - Exemplos de Portos e Pontes
   3 - Exemplos de Túneis e Valas

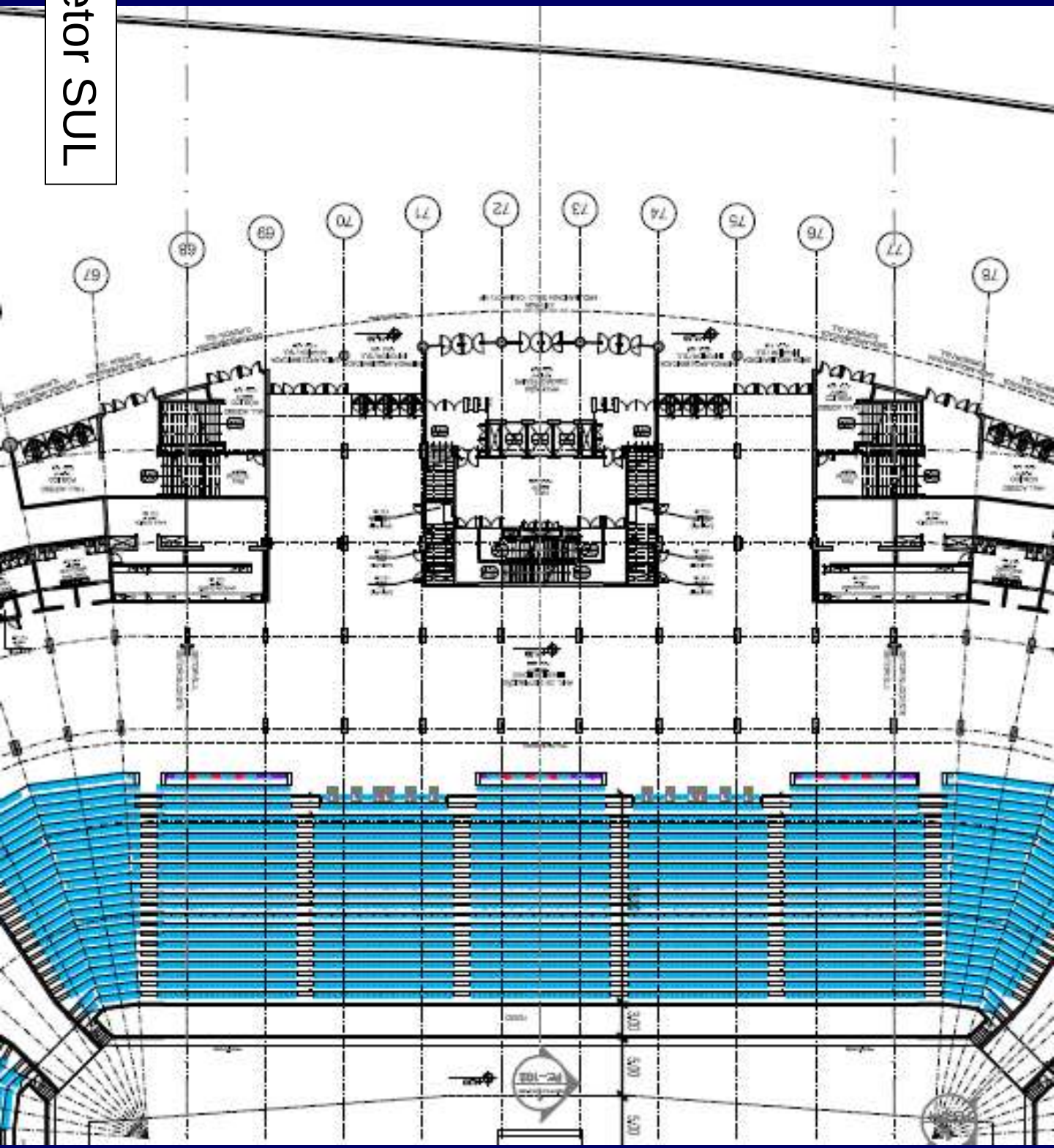
2. Avanços importantes ainda indisponíveis

1.1.1 - Arena Grêmio

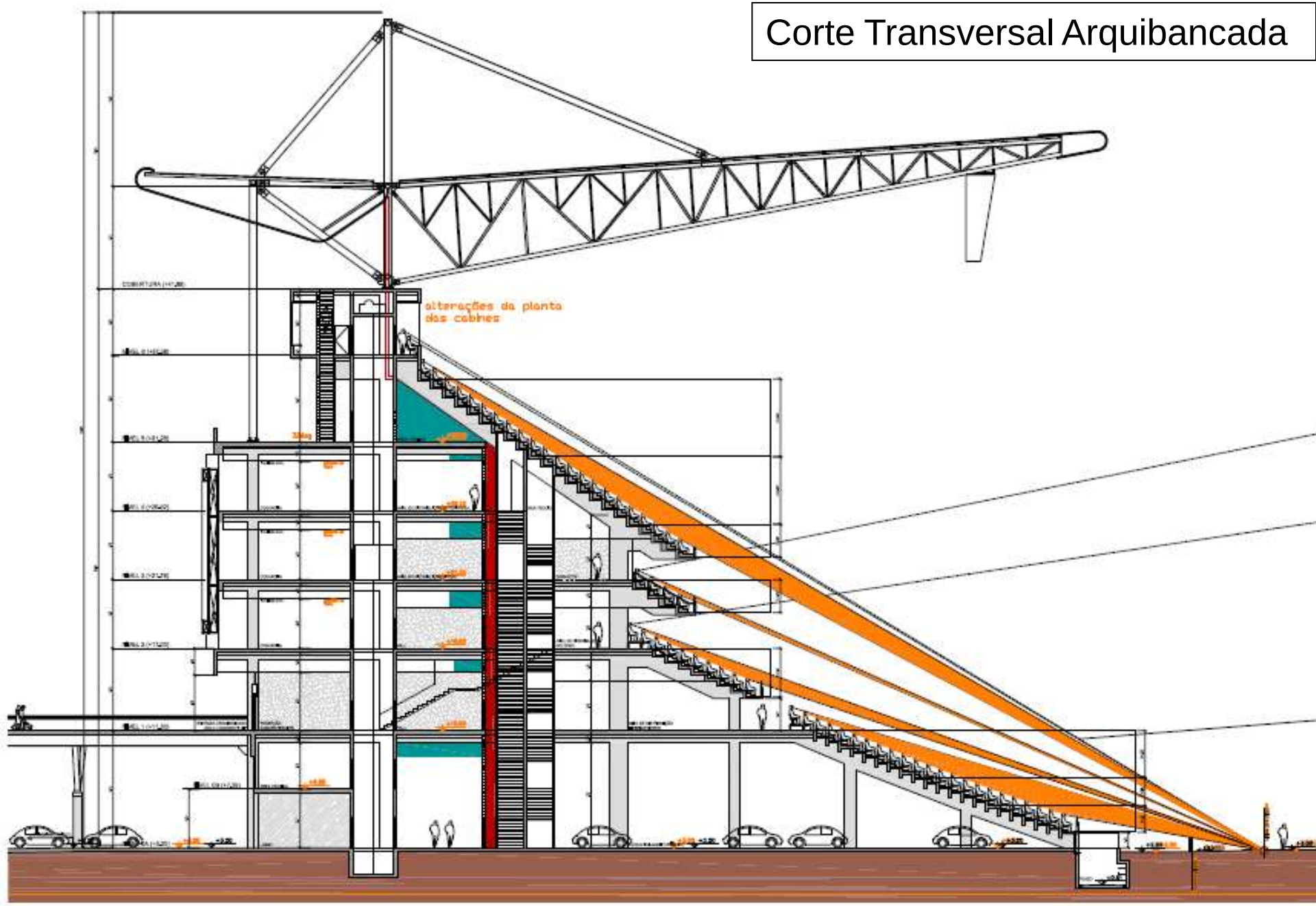


- Planta Nível Internediário

Setor SUL



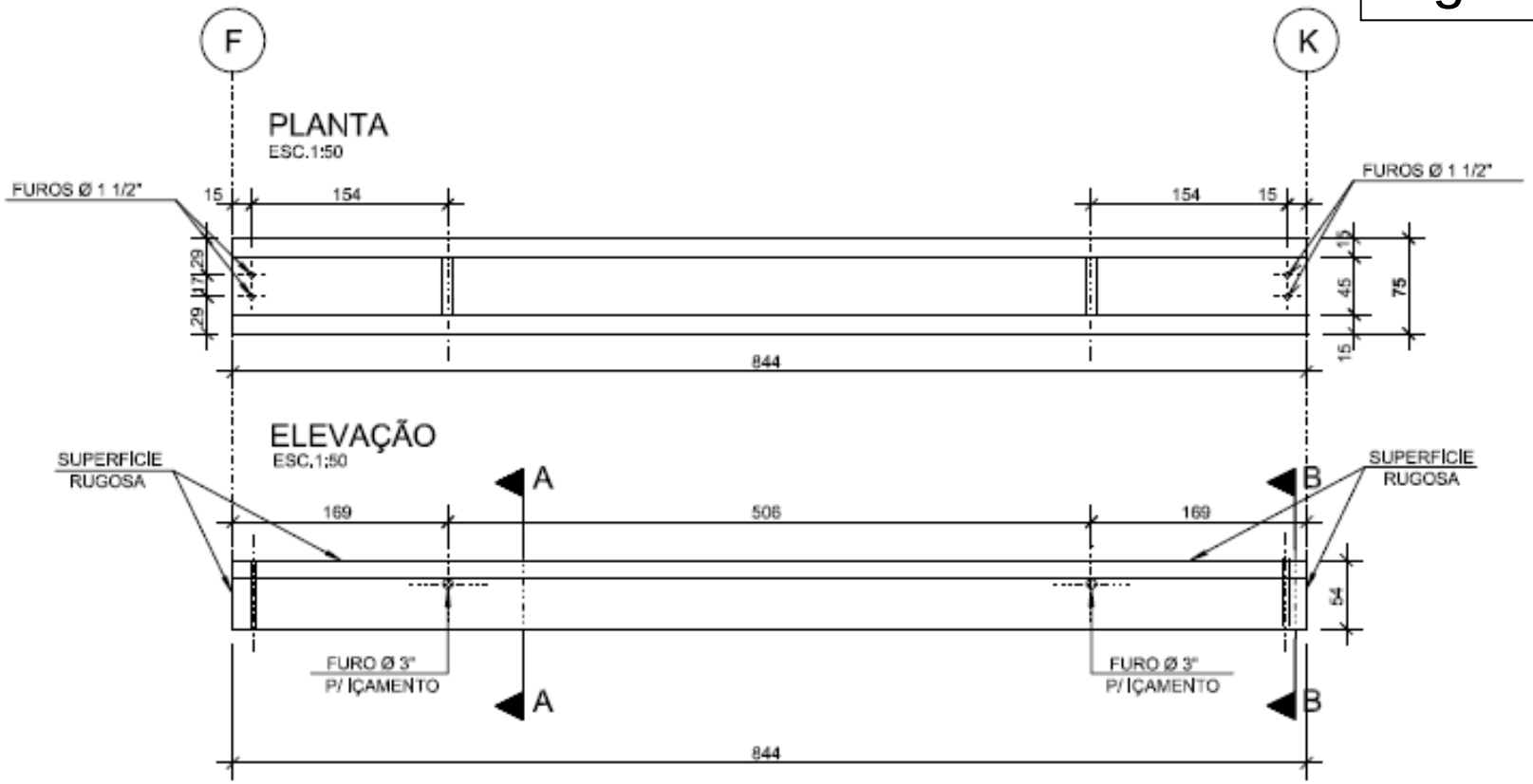
Corte Transversal Arquibancada

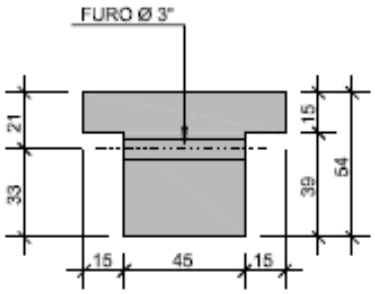


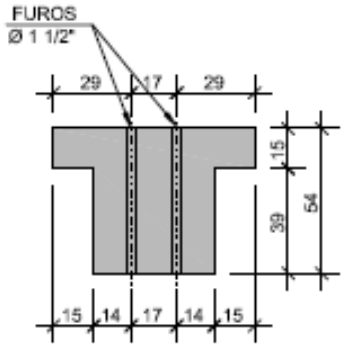
1 CORTE C – SUL

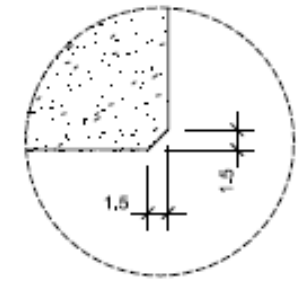
VP62FK18/VP62FK31 (45x54) (2X)

Vigas Pisos

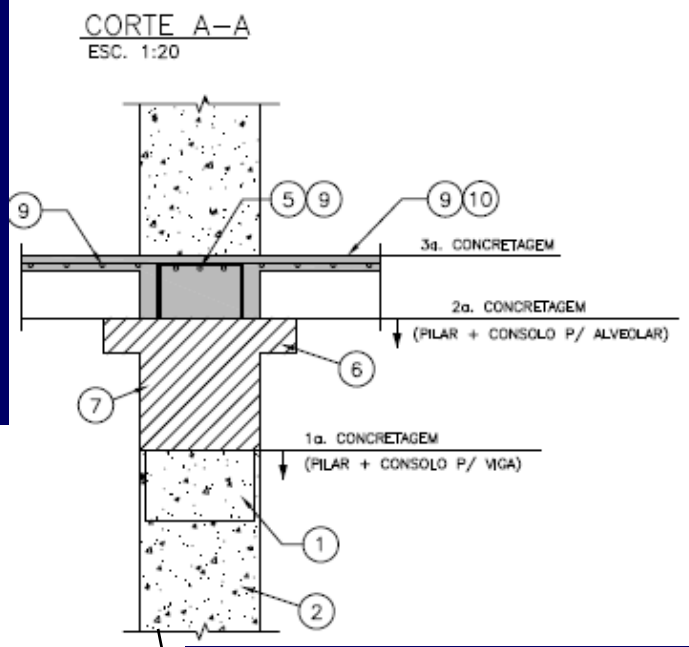


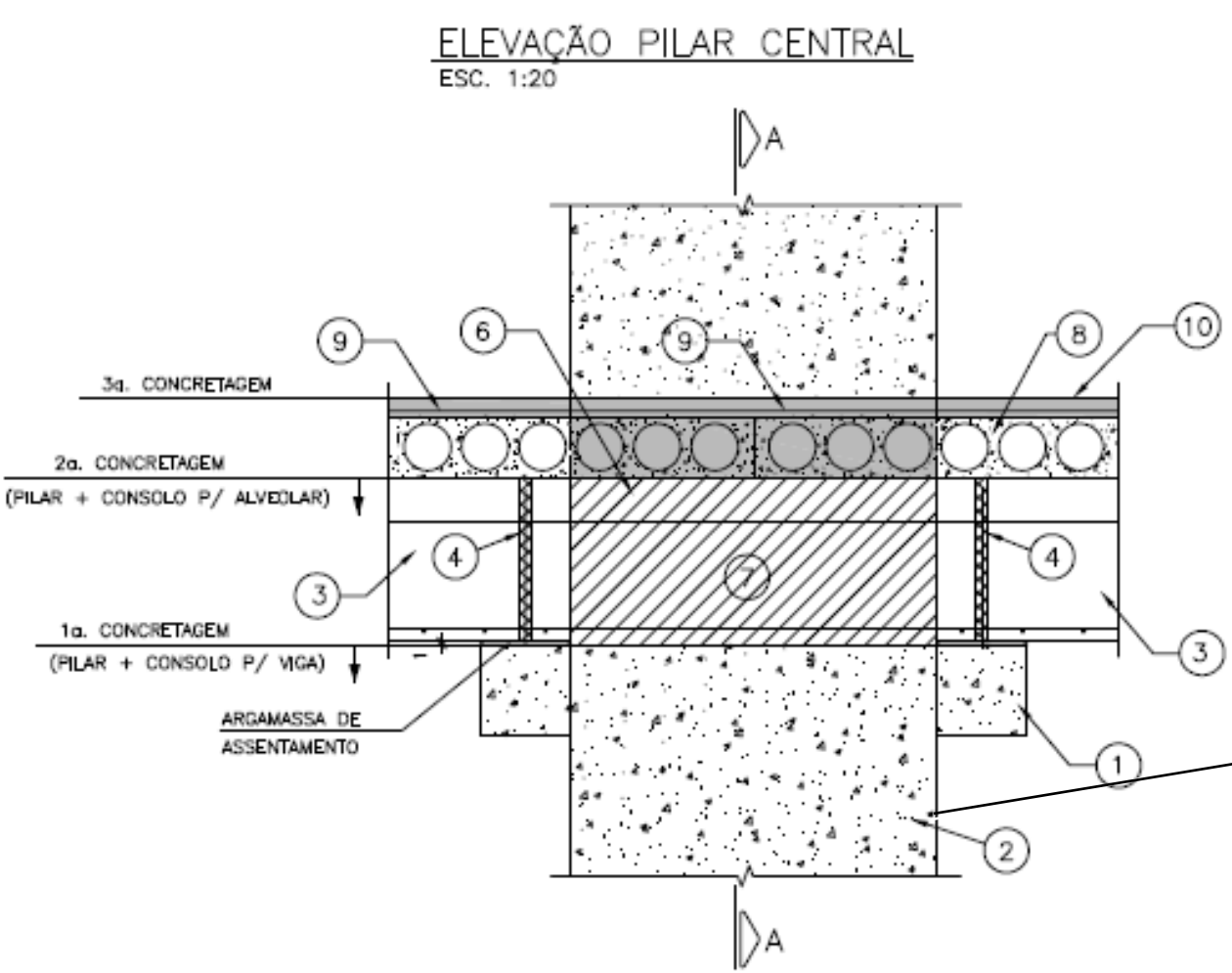






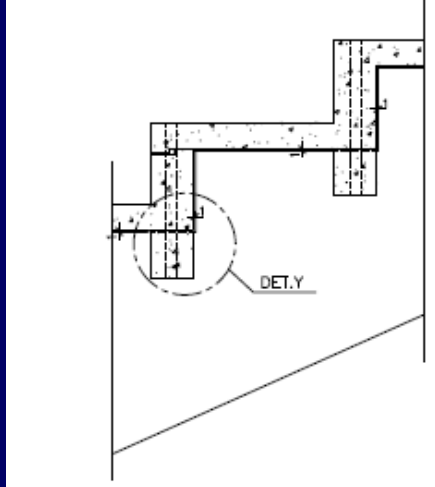
Apoio das lajes alveolares nas Vigas e delas nos Pilares

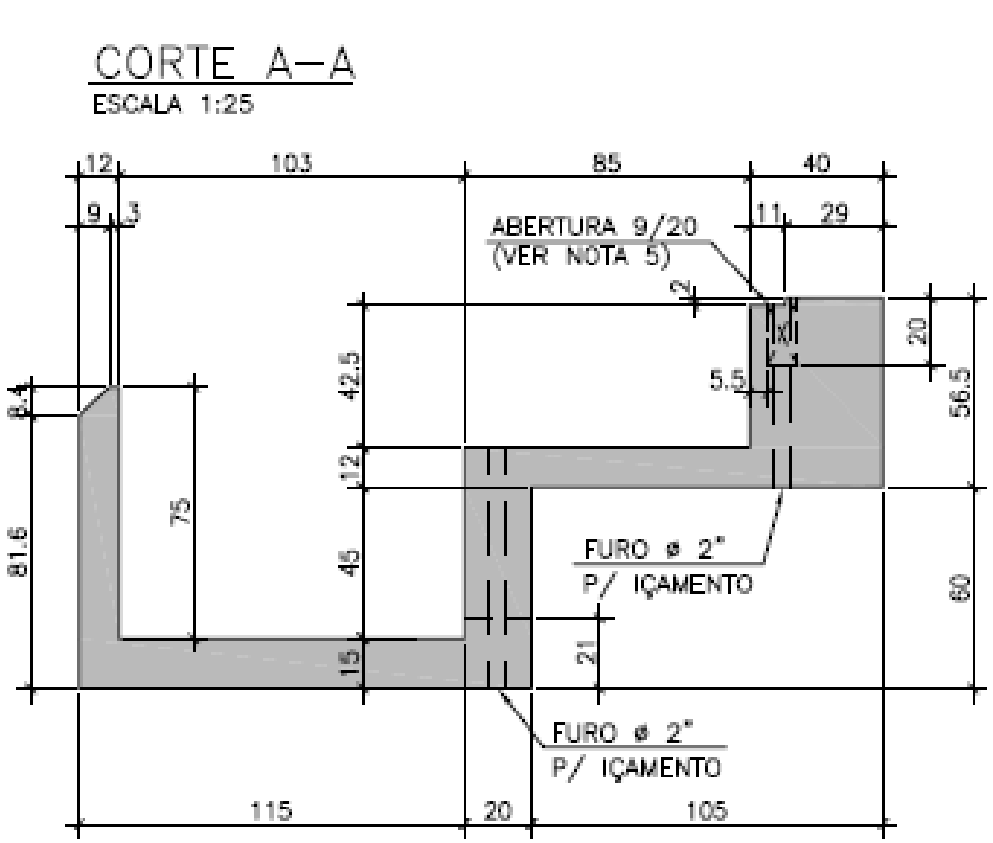


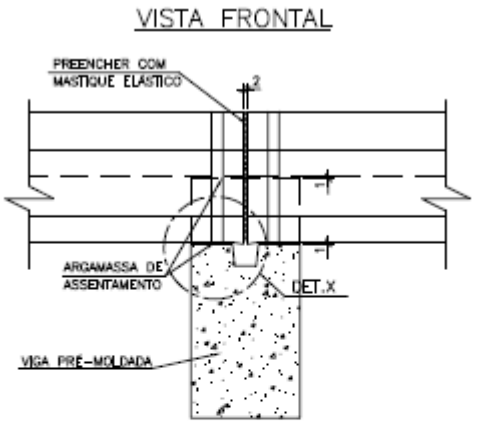


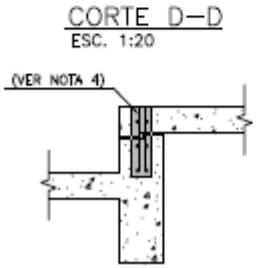
Pilares moldados in loco

Degrau e ligação com Viga Jacaré

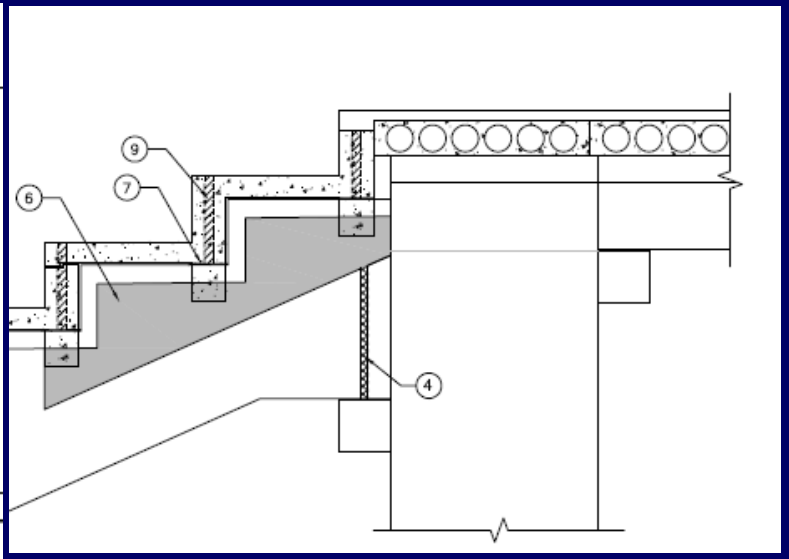


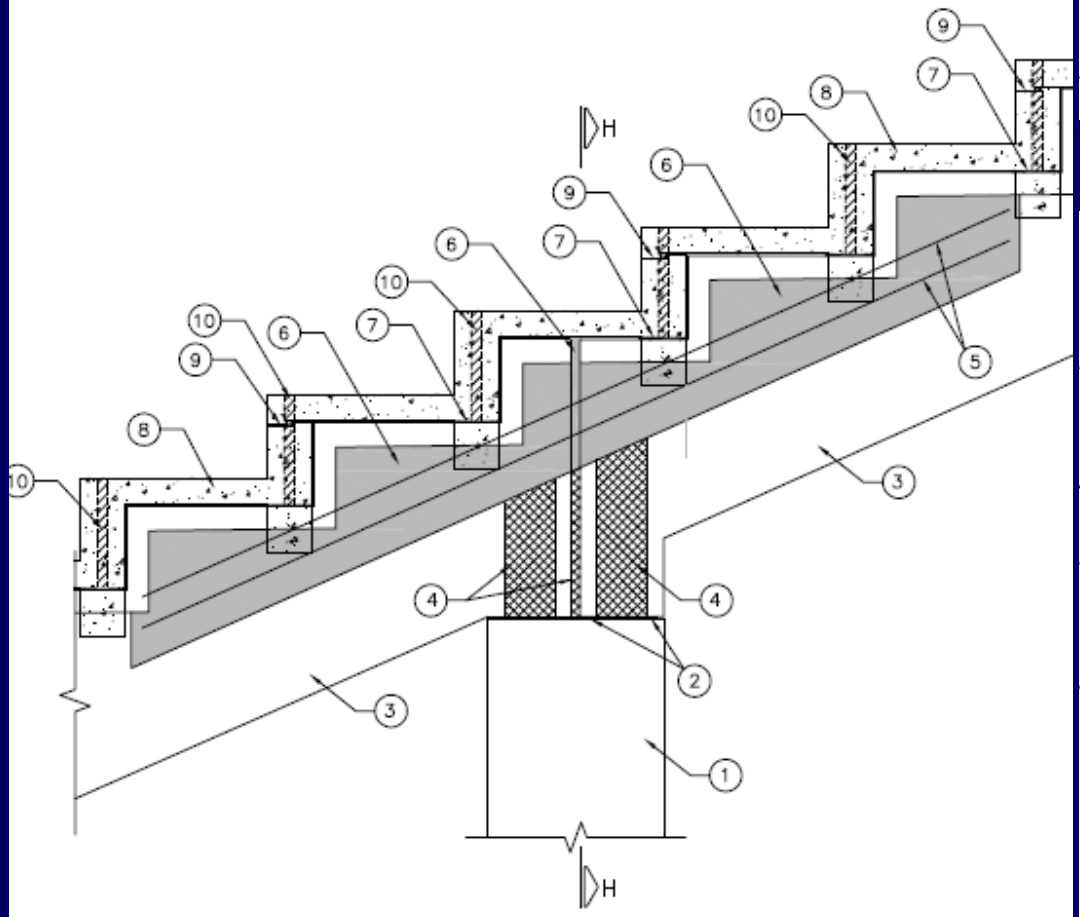


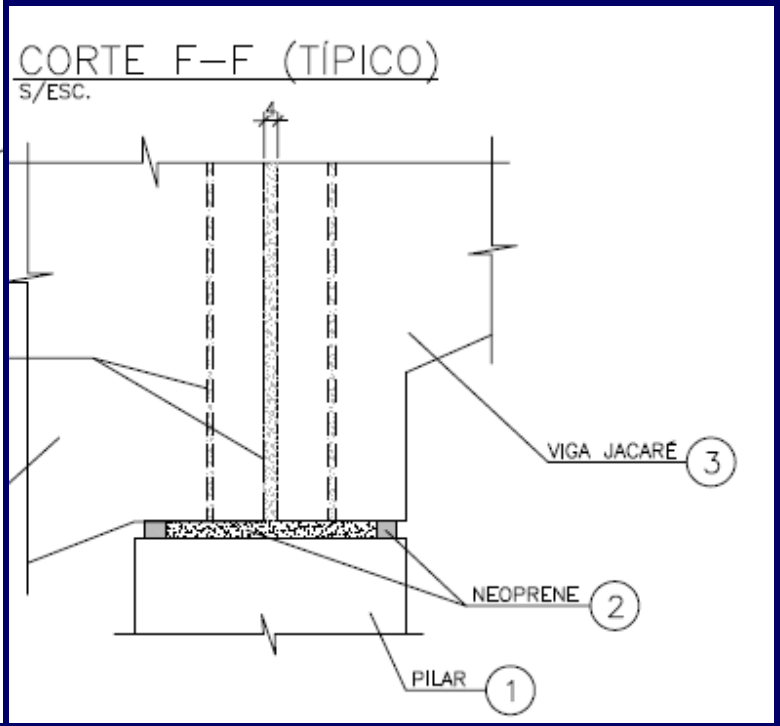


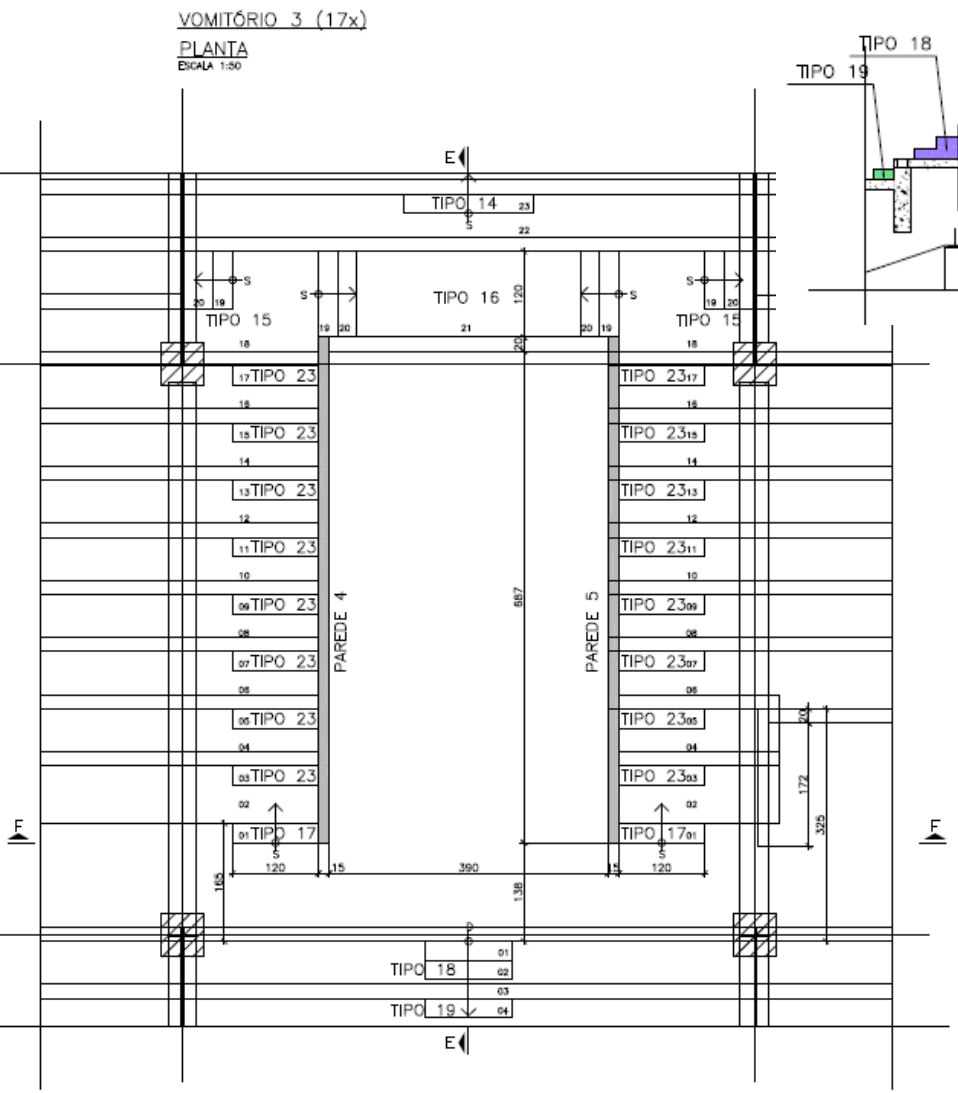


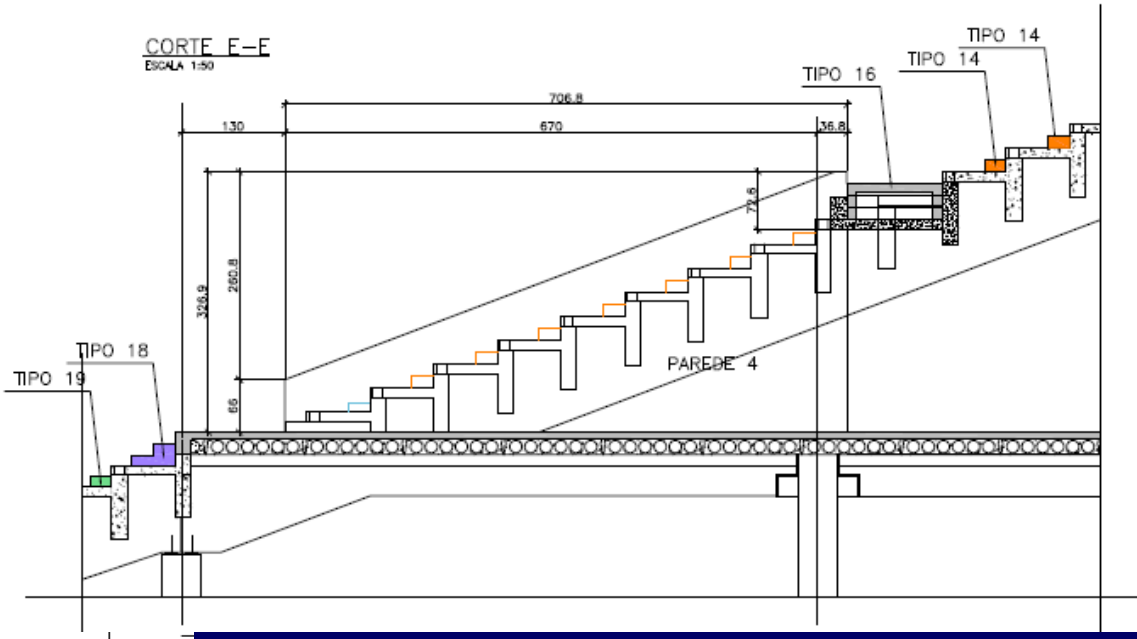
Ligações Vigas Jacaré entre si e pilares







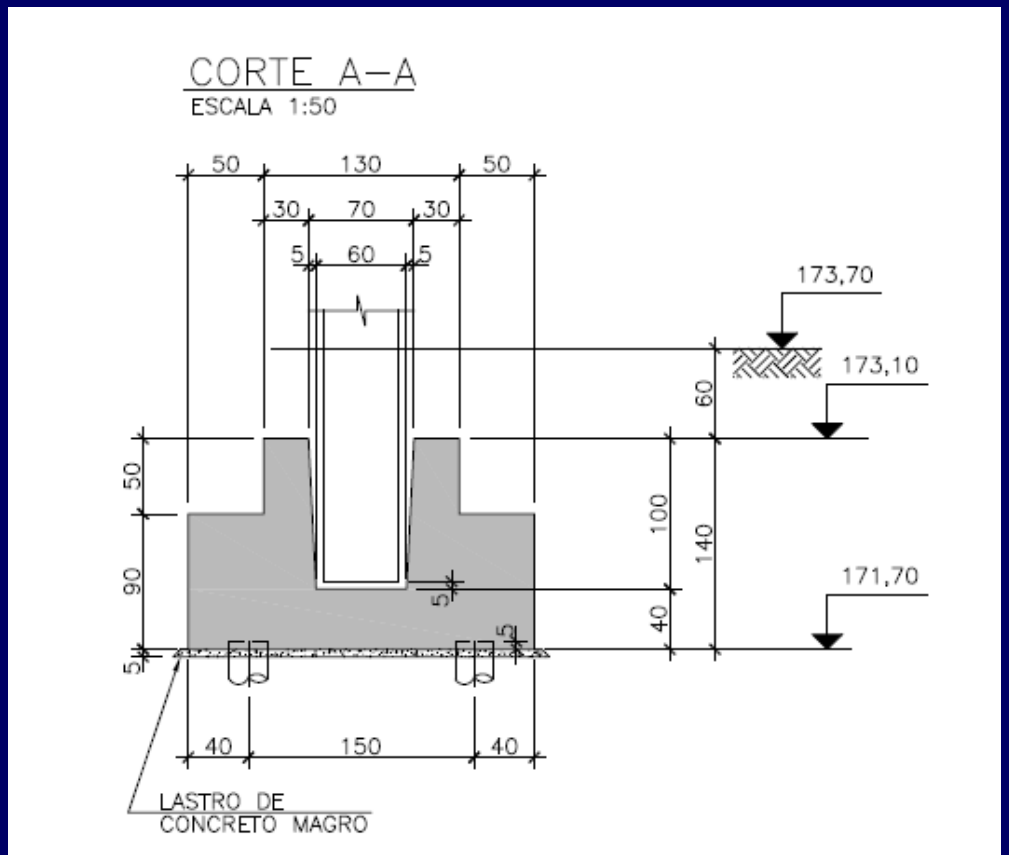


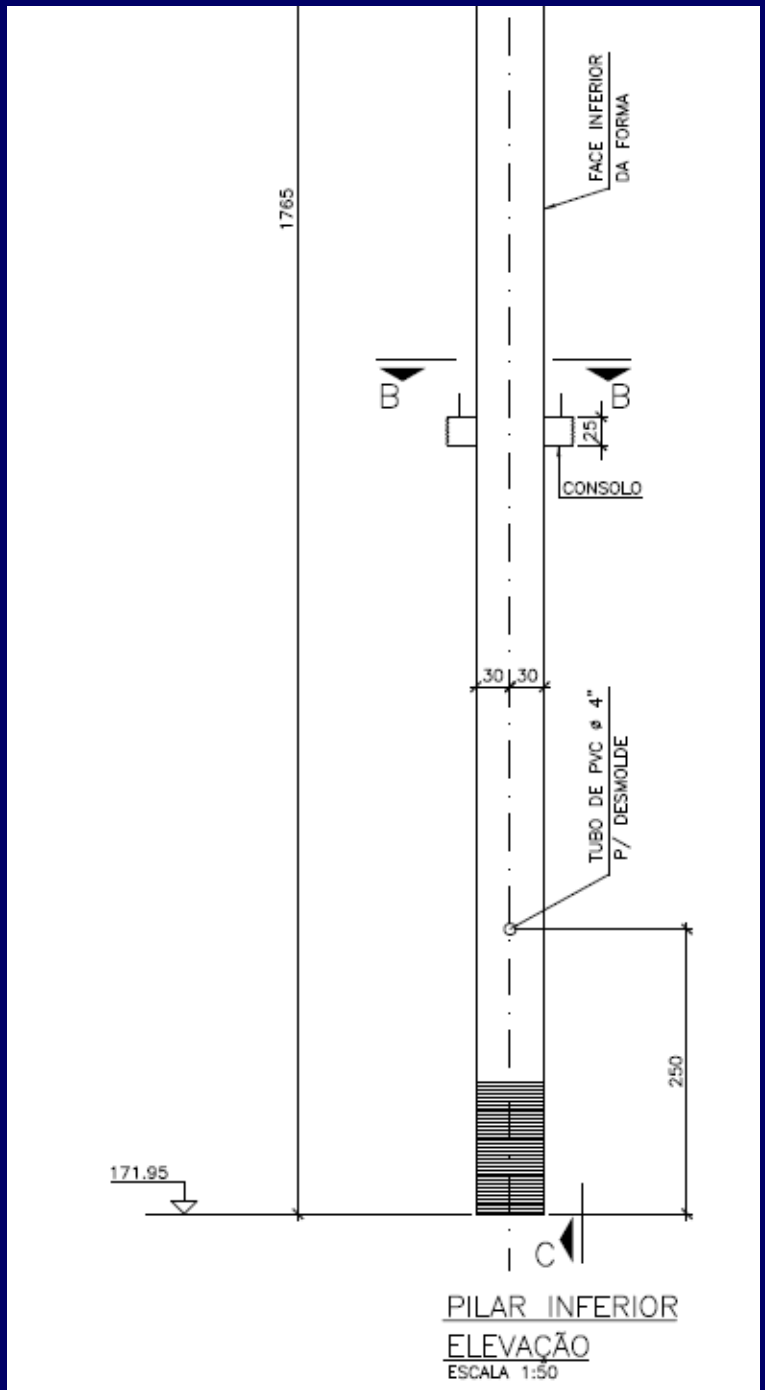


Vomitórios Entrada do Público

1.1.2 - Arena Cuiaba

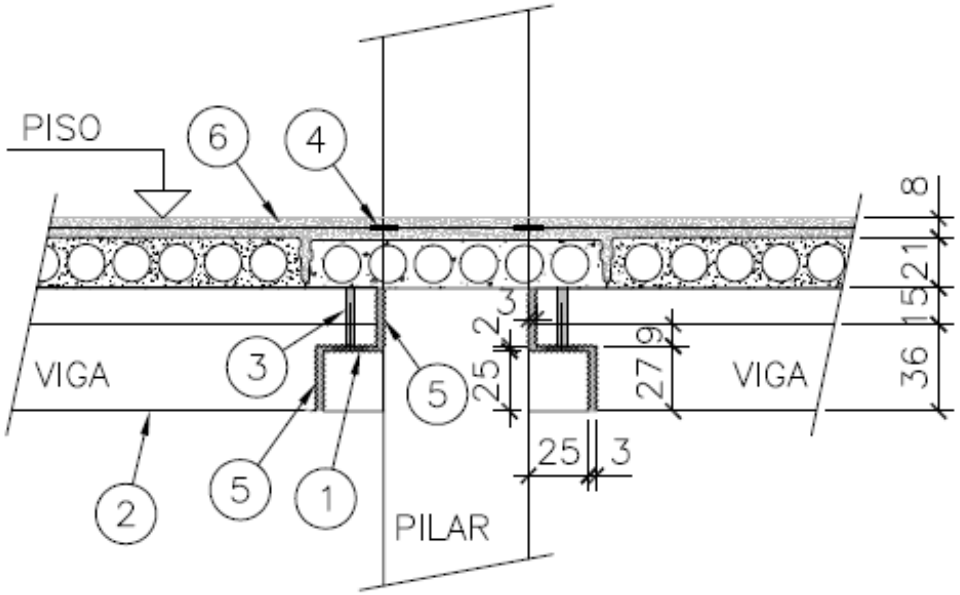
Blocos Cálice e Pilares



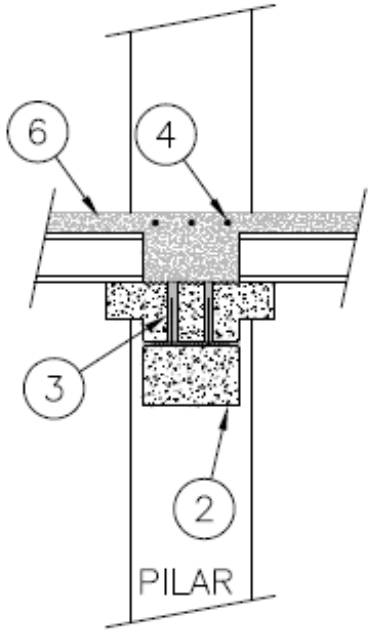


METODO CONSTRUTVO
VIGA DO PISO

ESCALA 1:50



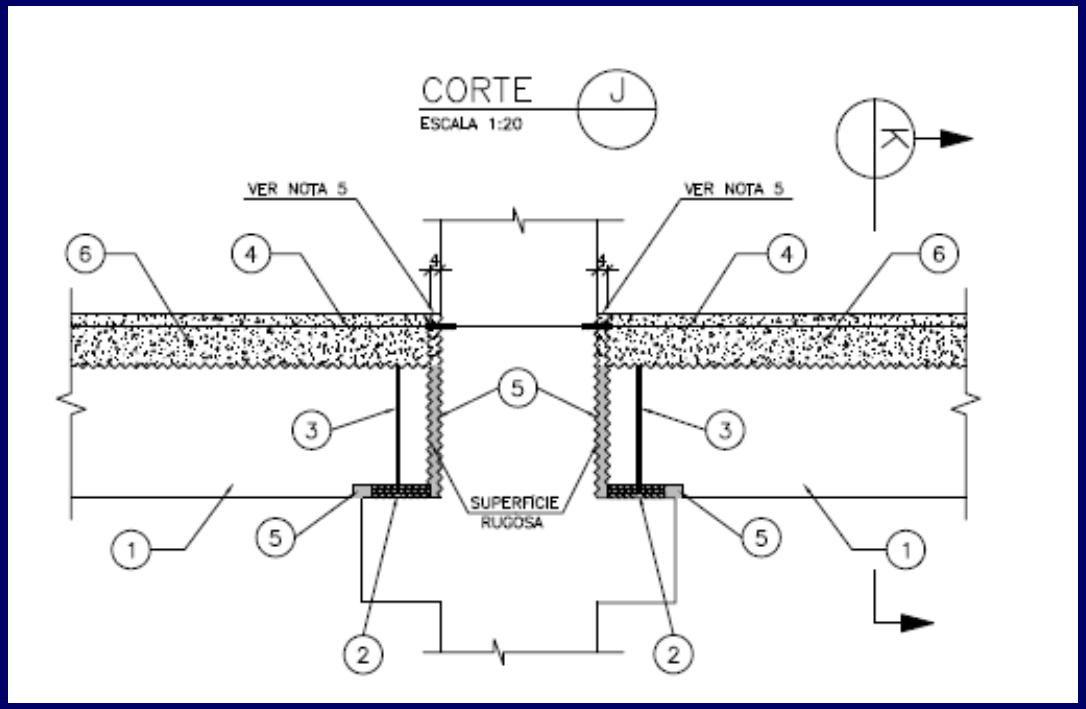
ELEVAÇÃO

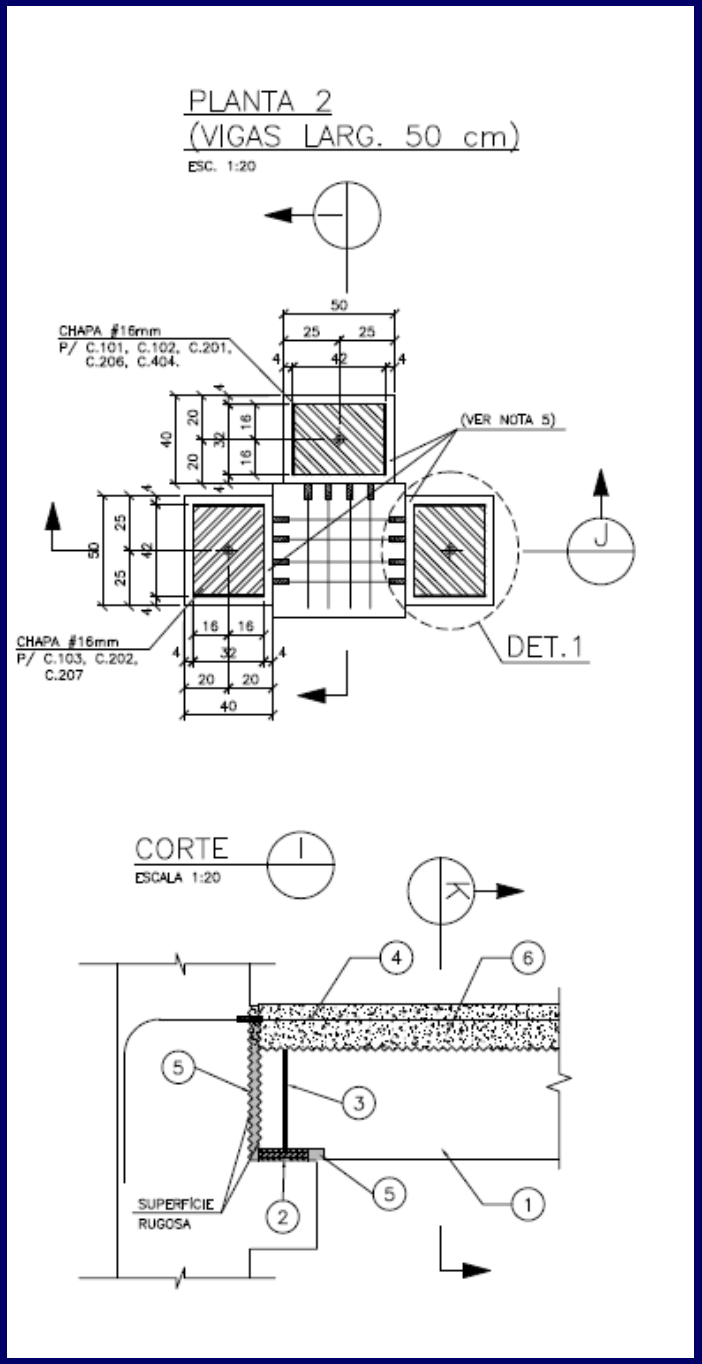


CORTE

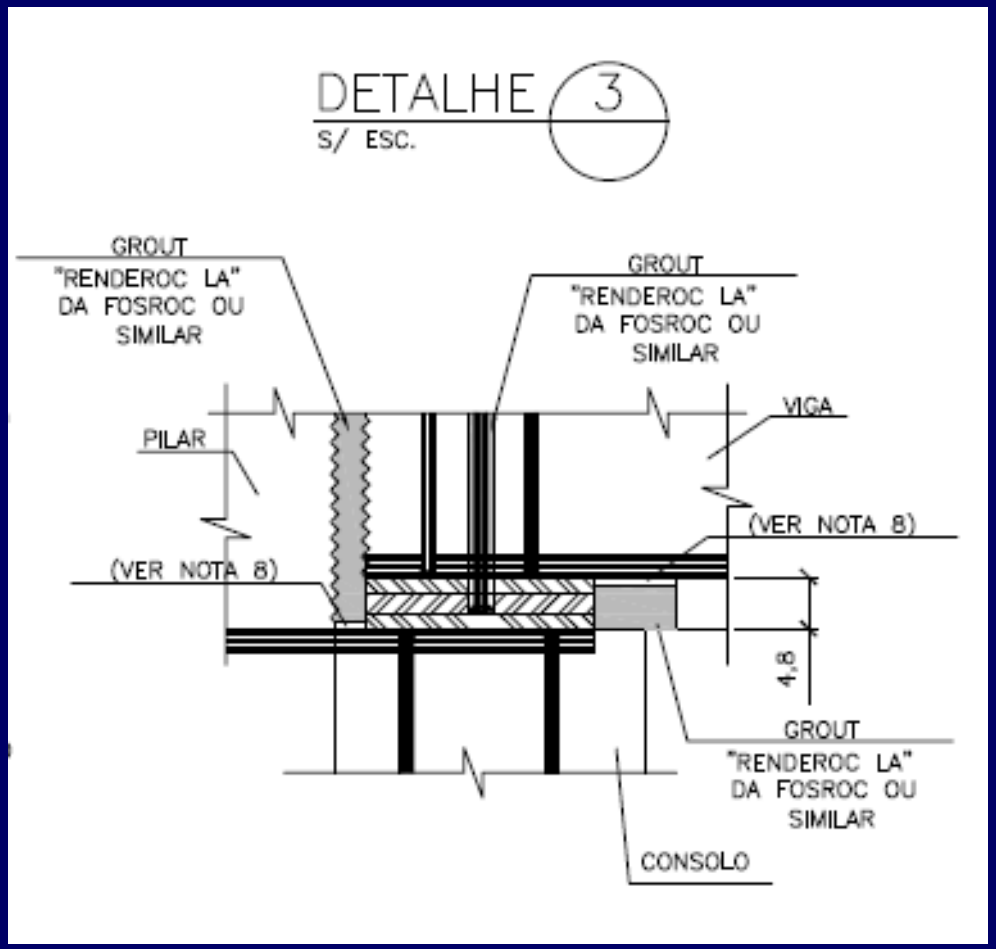
Ligação pilar-viga pré-moldados

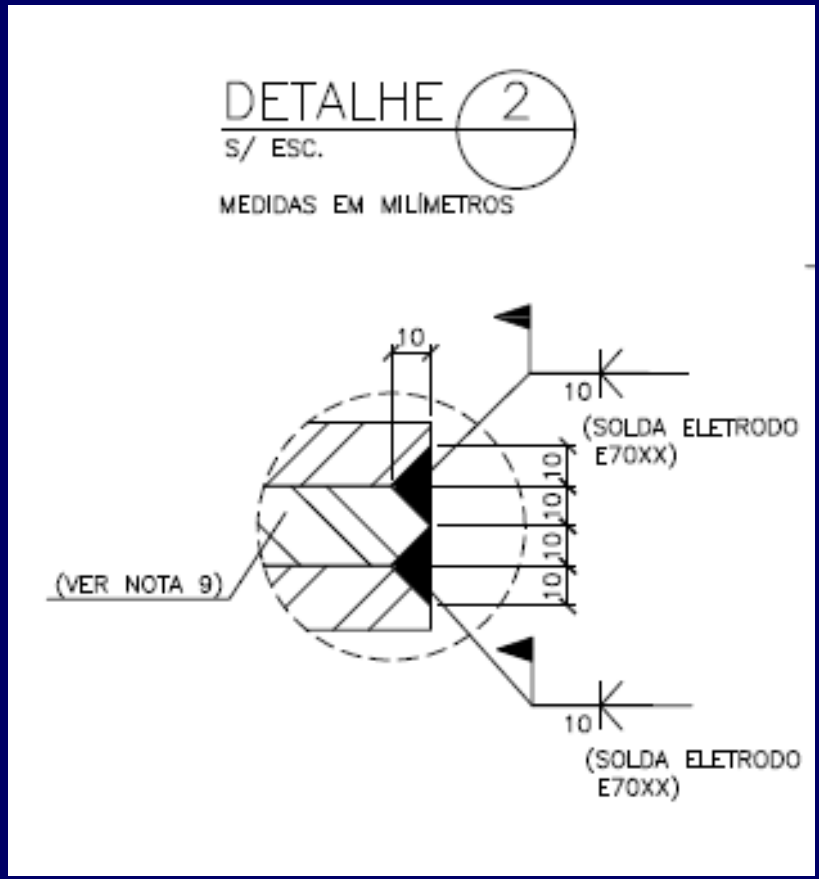
Ligação pilar-viga pré-moldados
Com chapa de ligação inferior





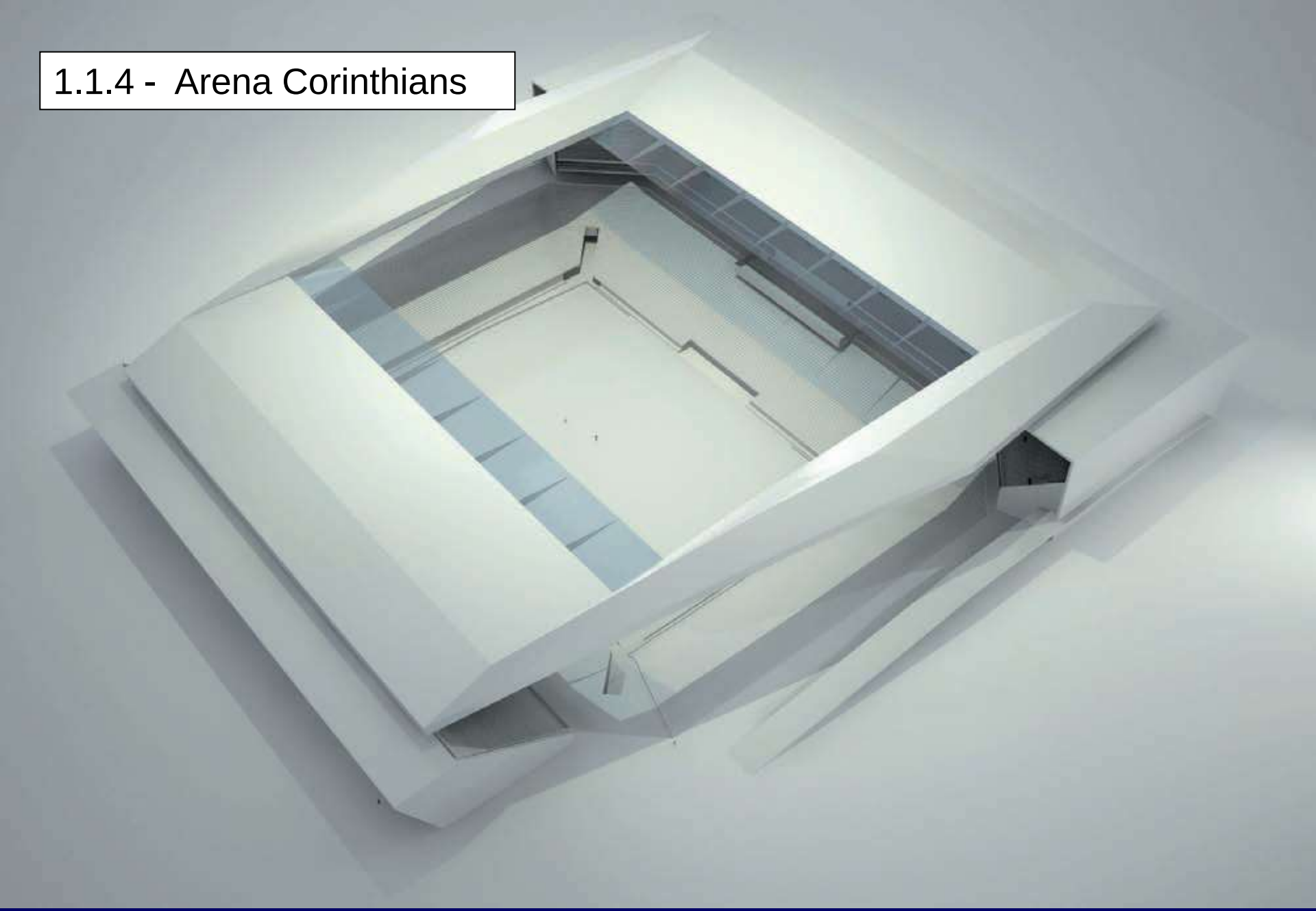
Ligação pilar-viga pré-moldados
Detalhe chapa de ligação inferior

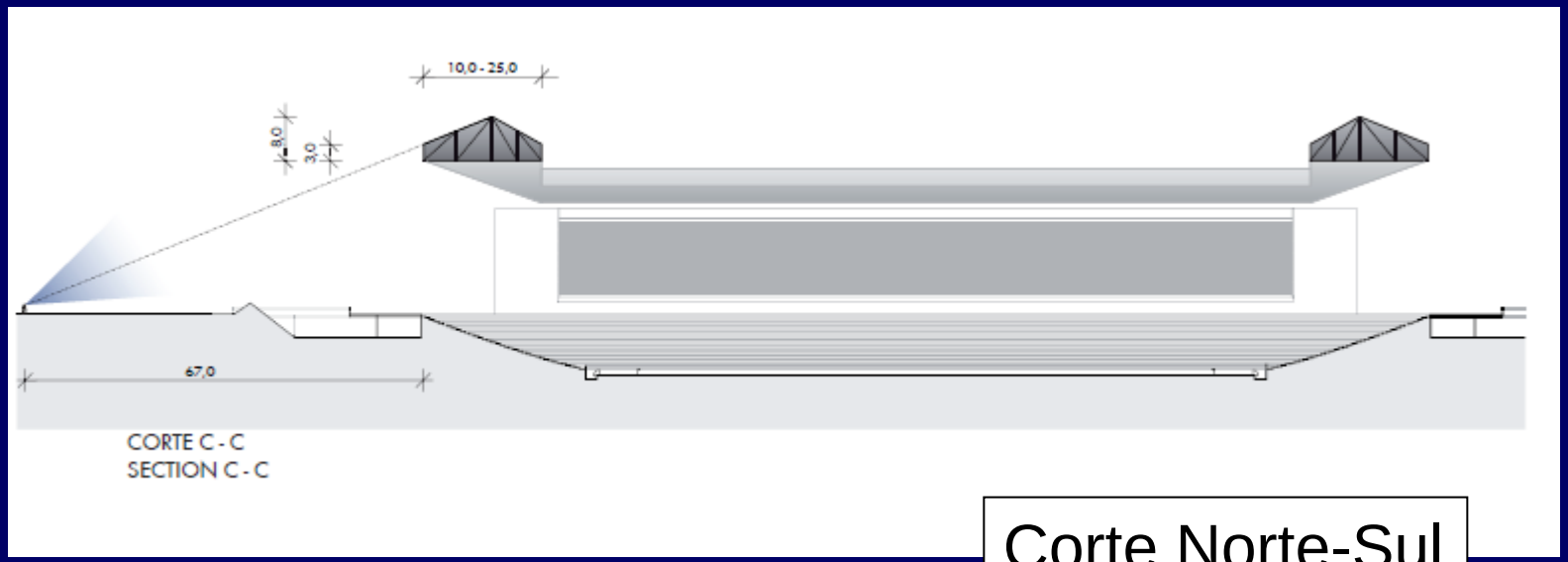




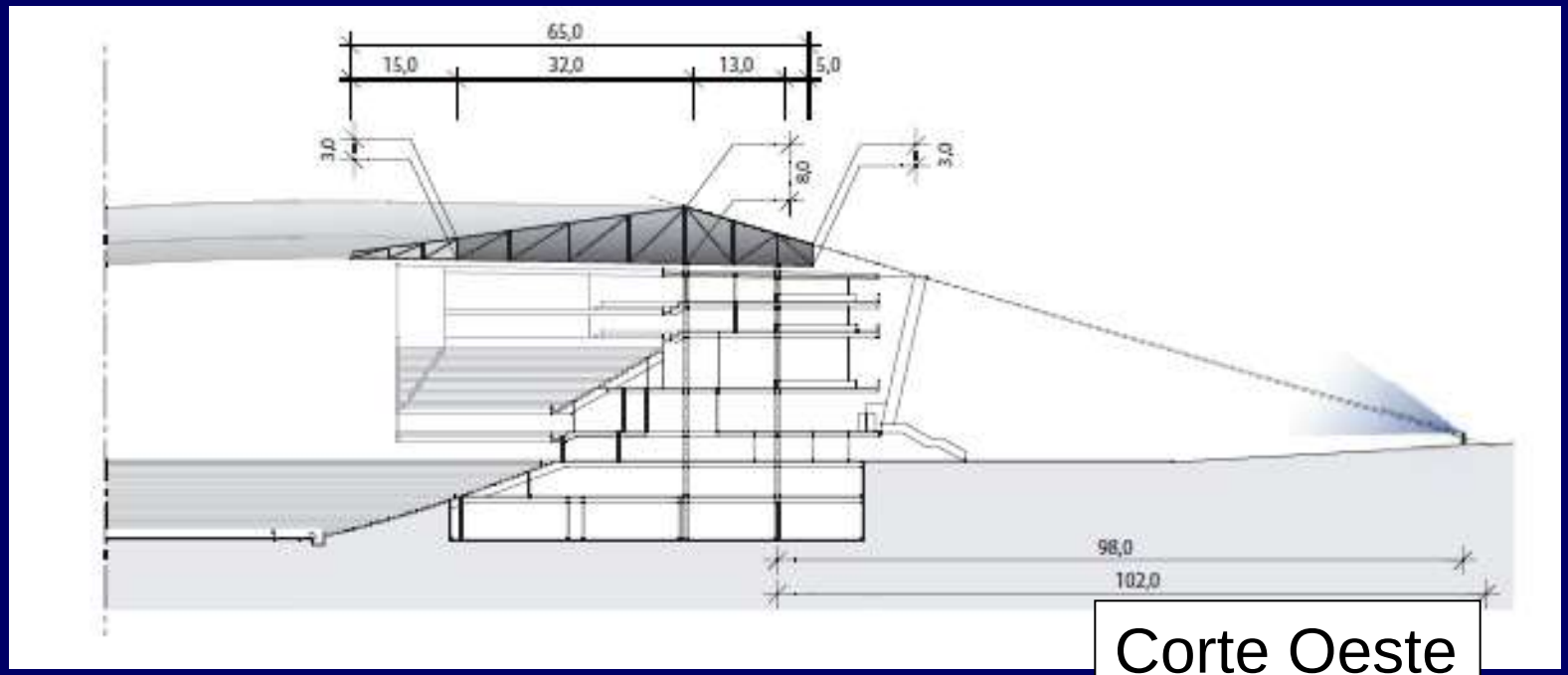
1.1.3 - Arena Recife

1.1.4 - Arena Corinthians





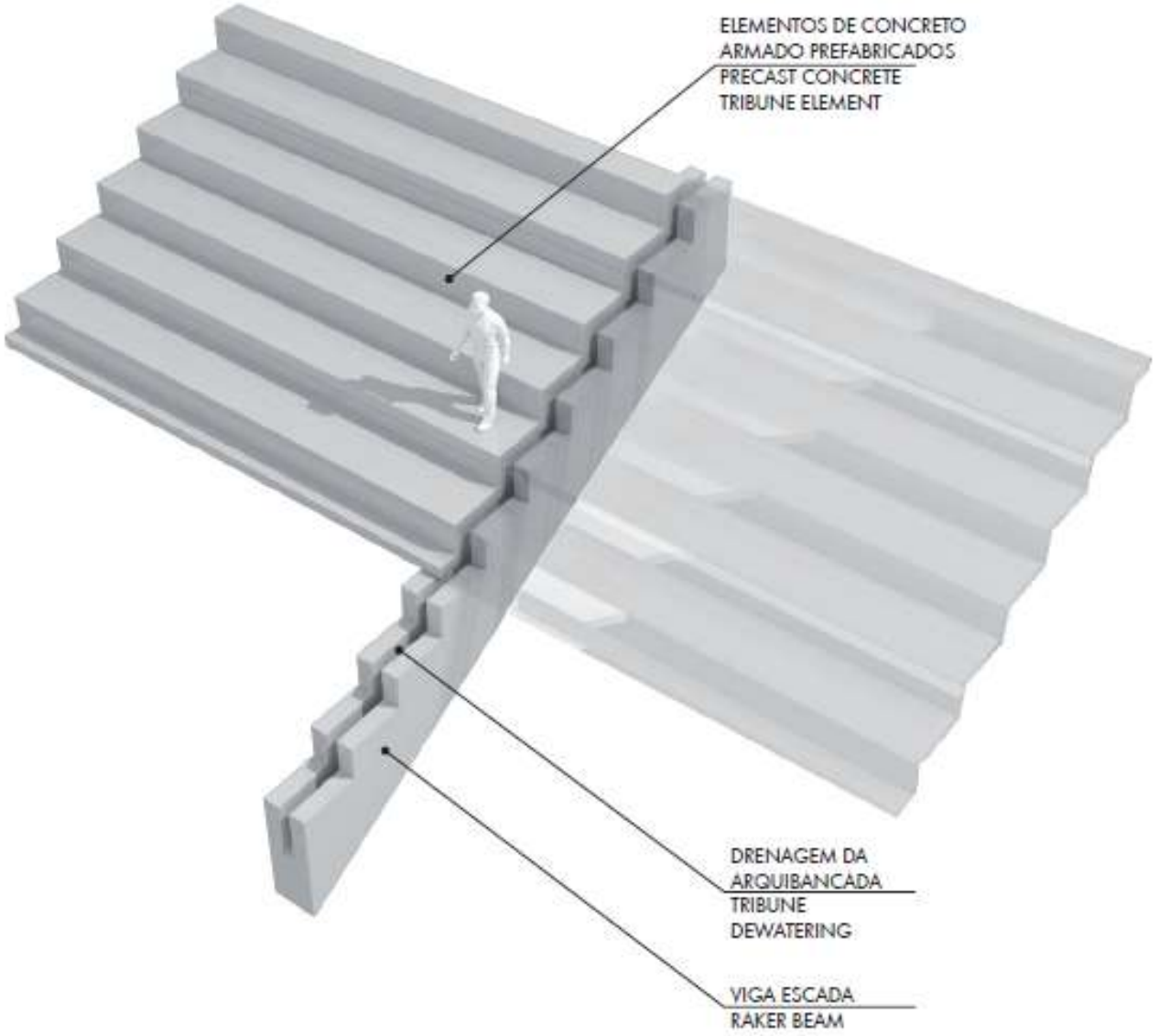
Corte Norte-Sul



Corte Oeste

ELEMENTO DA
ARQUIBANCADA

TRIBUNE
ELEMENTS



1.2.1 – Portos –Santos-Brasil – Santos ou Imbituba


Estaqueamento


Forma, armação
e anel de emenda
da Estaca


Bolacha na cabeça da estaca
OK
ICA 304 - 69. 30-03-11

1.2.2 – Pontes
1.2.2.1 - Vigas pré-modadas – Roaoanel

1.2.2.2 - Consolos Sucessivos pré-moldados
Ponte do Rio Daule - Quayaquil


24 15:26

1. 2.2.3 - Consolos Sucessivos pré-moldados
Ponte do Rio Guamá - Belém


2002

1.2.2.4 - Consolos Sucessivos pré-moldados

Ponte da Billings no Rodoanel Sul

Aduelas não se encaixam,
Existe uma faixa moldada!

1.3.1 – Túneis em Schield

Cf Herrencknet

Cf Herrencknet

1.3.1 – Galerias em Diafragma pré-moldada

2. – Avanços importantes ainda indisponíveis
2.1 – Aqueduto Empurrado - Transposição do S. Francisco cf VSL

Aqueduct launch

→ **CTT Stronghold (VSL in Spain) has successfully finished** the launching and post-tensioning works of an aqueduct for the first phase of the new Segarra-Garrigues water channel in the north of Spain, 150km from Barcelona. The 390m-long aqueduct was built using the incremental launching method with friction jacks. The typical span is 40m long and the cross-section is 5.4m high. The deck was cast and launched in 20m-long segments, half the typical span length. Segments were cast to a five-day cycle. A total of 100t of PT was used. Design of the project

was by Carlos Fernandez Casado and the main contractor was a joint venture of Dragados and ACSA-Sorigué. ■ *Contact: pferrer@vslsp.com*

2.3. Cimbramento deslocável com aduelas pré-moldadas

cf Freyssinet

Chantier du viaduc de San Antonio

2.4. Cimbramento deslocável para moldagem no local

Viaduto em Barcelona – Espanha – Enerpac - Cf Bridge

2.5. Pontes em Arco - Ponte na Auto estrada Oparno – República Checa – cf Bridge

2.6. Lançamento com super-dolles – cf VSL

Muito Obrigado pela atenção

Ponte de Aracaju