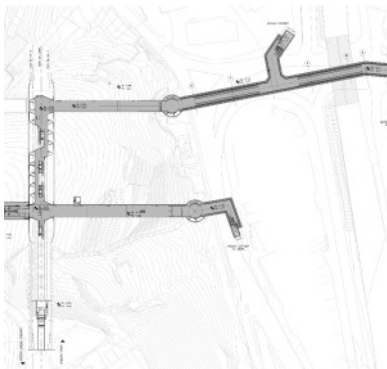




## SÃO CONRADO STATION INTERNAL STRUCTURES DESIGN

BASE DESIGN AND FINAL DESIGN - INTERNAL STRUCTURES; TECHNICAL ASSISTANCE TO THE CONSTRUCTION.



**Client:** Riотrilhos / CCRB - Consórcio Construtor Rio Barra / CJC - Engenharia e Projetos, Ltda.

**Location:** Rio De Janeiro Metro - Line 4, Rio de Janeiro, Brazil

**Design date:** 2012 - 2013

**Construction date:** 2014 - 2015

**Services:** Base Design and Final Design - Internal Structures; Technical Assistance to the Construction.

### Summary:

This is a station with a deployment area with more than 9000 m<sup>2</sup>. The structure includes an electrical substation, 3930 m<sup>2</sup> access and two ventilation shafts 24 and 33 m high and 17 m in diameter. Various external constraints have forced the adoption of several constructive ways: cut-and-cover, tunnel boring machine, indirect method and shaft excavation and prefabricated construction.

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