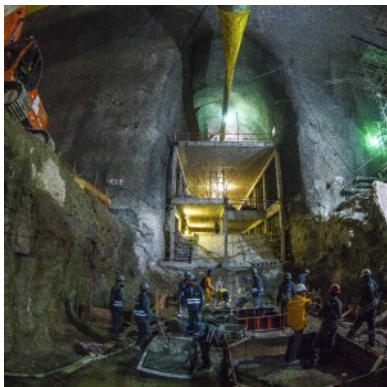
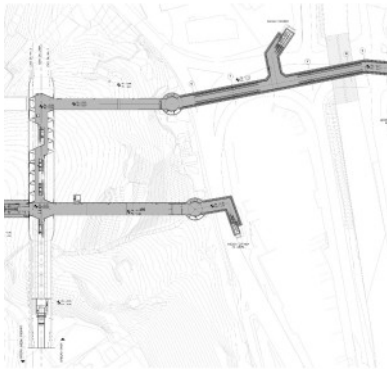




SÃO CONRADO STATION INTERNAL STRUCTURES DESIGN

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 m². The structure includes an electrical substation, 3930 m² 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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