



## THE INTERNAL STRUCTURES OF THE EMERGENCY CROSS PASSAGES AND AUXILIARY SUBSTATIONS BETWEEN THE TWIN TUNNELS

PRELIMINARY DESIGN AND FINAL DESIGN OF THE INTERNAL STRUCTURES; TECHNIQUE ASSISTANCE TO THE CONSTRUCTION



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

**Location:** Line 4 (Section Jardim Oceânico / Gávea) of the Rio de Janeiro Metro Expansion Project – Rio de Janeiro – Brasil

**Design date:** 2012 - 2014

**Construction date:** 2013 - 2016

**Services:** Preliminary Design and Final Design of the Internal Structures; Technique Assistance to the Construction

### Summary:

The 35 emergency Passages are located between Lines 1 and 2 twin tunnels, and are divided into levels corresponding to cables routes and an emergency anteroom.

Buildings for Auxiliary Electrical Posts (SSA) and Correction Posts (SSR) which are technical spaces that include a differentiated area for the installation of electrical equipment and an emergency anteroom.

[SEE ONLINE](#)

