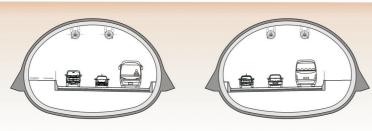
B R A Z I L Sao Paulo Location	maubertec			
	Project: Road Connection and Tunnel between Av. Cruzeiro do Sul and Av. Engenheiro Caetano Álvares			
	Client: EMURB - Empresa Municipal de Urbanização			
Start: Jul/2008 Completion: Abr/2012		CAT-CREA-SP: 2620140000162	Cost of Services: R\$ 3,517,589.17	
Services: Basic and Executive Projects and Preparation of Environmental Impact Study (EIA/RIMA)				

PROJECT DESCRIPTION

Preparation of Functional Studies, design of Basic and Executive Projects, and Preparation of Environmental Impact Study (EIA/RIMA) for road connection and tunnel between Av. Cruzeiro do Sul and Av. Engenheiro Caetano Álvares

MAIN QUANTITIES

Number of tunnels:	2		
Total extension of road connection:	2,400m		
Length of each tunnel:	420m		
Constructive method of tunnels:	NATM		
Number of cells per tunnel:	1		
Section surface area per tunnel:	137m²		
Surface area of internal tunnel pavement: Rigid: 10,228m ²			
Surface area of pavement external	Flexible: 46,540m ²		
to tunnel:	Rigid: 567m ²		



Typical tunnel section

DESCRIPTION OF SERVICES

Functional Project; Topographic Survey; Basic Project comprising the following projects and studies: Geometric Project; Geological and Geotechnical Studies; Earthworks Project; Hydrological Studies and Drainage Project; Paving Project; Tunnel Project; Special Tunnel Projects; Structural Project of Ventilation House; Containment Project; Architecture Project; Urbanism Project; Landscape Project; Public Lighting Project; Interference Rearrangement Project; Traffic Diversion Project; Expropriation Project; Environmental Studies and Licensing.



Project Location

Works were carried out jointly with the company Planservi Engenharia Ltda.