

GUIMARÃES AVENUE FLYOVER (preliminary design)



Client / Employer Government of the Macao Special Administrative Region
Land, Public Works and Transport Bureau

Service Project Design by CONSULASIA, LDA.

Investment MOP 400,000,000 (estimate)

Contract Price MOP 8,500,000

Time Schedule October 2013 to September de 2014

Description of the Project In recent years there has been an exponential growth of Taipa Island in Macau, with many buildings, mainly residential. This situation has contributed to a big increase of pedestrian and road flow.

The Light Metro (LRT) have a station next to the Olympic Stadium, near the residential area, which will accentuate the pedestrian flow in the area.

Acknowledging this new reality, the Government of Macao decided to build a walkway to facilitate the movement of residents between their homes, Taipa Central commerce and the new LRT station.

The project comprises a pedestrian corridor about 8 meters from the ground, 400 meters long, built along the Guimarães Avenue, which joins two roundabouts (one of which is the Rotunda of the Stadium). From the Rotunda of the Stadium the footbridge will be extend to the station of the Light Metro of the Olympic Stadium.

The new walkway will allow pedestrians to move in a safer and faster way, avoiding high car flow. The footbridge will be all covered and the installation of travelators was considered during the preliminary design to make their use even more comfortable.

GUIMARÃES AVENUE FLYOVER (cont.) (preliminary design)



Description of the Project (cont.)

The construction works will have an estimated value of 400 million patacas, and Consulasia was the company responsible for the preliminary design, with a contract valued at 8.5 million patacas.

This important infrastructure, unique in Macao, taking into account its size (700m in length and 6,400m² of area), will reinforce the government's policy which aims to encourage the population to travel more on foot and by bicycle thus contributing to a healthier life. Consulasia proposed the construction of bike paths in both directions of Guimarães Avenue (where a large part of the footbridge will be built). The footbridge access elevators were projected to be big enough so that bicycles could be transported.

The proposed pavement was of natural wood deck, suitable for this purpose, with planting areas interspersed along a pedestrian path. The preliminary design also proposed the installation of travelators in both directions, with 35m lengths, for better convenience in using the footbridge.

The public walks of the Guimarães Avenue would have a landscape arrangement, with the renovation of the materials, design of the pavements and planting of new trees.

The central separator of the Avenue, on which the pillars of the catwalk will be constructed, would be landscaped and planted. The initial idea was to have the structural pillars surrounded by plant elements and supported by decorative metallic structures.