



F&N have been a structural advisor to the Hong Kong Government since the 1970's for matters of structural design and the development of design loading criteria appropriate to the major bridges in the region.

We were the consultants to the Hong Kong Highways Department (HKHD) to assist in the development of the agreements covering the operation, inspection and maintenance of the Lantau fixed crossing, Ting Kau Bridge and associated structures. This commission followed on from our earlier role as special advisor to the HK Government on all aspects of these major structures. F&N were also appointed to undertake the independent structural check of their designs.

We adapted the HKHD maintenance procedures to produce structure specific inspection and maintenance manuals for three main cable suspended structures, Tsing Ma, Kap Shui Mun and Ting Kau. These documents were required to comply as far as possible with established HKHD routines.

F&N contributed to the development of the tender documentation relating to the Concession Agreement for the Tsing Ma Control Area. We also undertook a review of the proposed concession agreement in order to ensure that the obligations contained in the agreement were compatible with the unique inspection and maintenance requirements that we had developed for these major structures.

We also contributed to the evaluation of the tenders received from the international consortia seeking to be awarded the concession.

The Tsing Ma Control Area covers 17 kilometres (10.5 miles) of road network connecting the Chep Lap Kok Hong Kong International Airport on Lantau Island with major highways on mainland Hong Kong and takes in the Tsing Ma Bridge, the Kap Shui Mun Bridge, the Rambler Channel Bridge and the Cheung Tsing Tunnel on Tsing Yi Island. The Control Area also includes the Ting Kau Bridge, and its associated viaducts.

Client:

Highways Department Hong Kong

Location:

Lantau Link, Hong Kong

Service Dates:

1970-1990, 1995 to present

Services:

Specialist advice

