

## KOEBERG INTERCHANGE UPGRADE WESTERN CAPE, SOUTH AFRICA

HHO Africa were appointed to investigate and propose solutions to the severe traffic congestion occurring at this important traffic interchange. Following comprehensive review a solution was arrived at.

Two new elevated access ramps forming two viaducts 640 and 690 metres respectively as well as 375 metres of widening of the existing precast "T" beam viaduct were agreed on.

Among the features of these ramps are :

- ◆ **27 spans mostly 35m long comprising precast pre-stressed "U" beams**
- ◆ **2 Number 3 span pre-stressed concrete continuous box girders 137 metres long with a main span of 65 metres**
- ◆ **A total deck area of 14000 m<sup>2</sup>**

The use of precast technology enabled various elements to be manufactured in advance of site construction, reducing overall construction times and facilitatory accommodation of traffic.



70 m insitu box deck span over railway line shown in clear relief in the aerial photograph



Night-time launch of the 40m beams, belies the complexity & meticulous preparation behind this apparently simple operation.



Ramp A