

C035134 : MAJOR URBAN PLANNING

KEY WORD : IMPACT/RAMP-ON/RAMP-OFF/EXPRESSWAY/URBAN AREA

KWUNCHAI KLUNPRAYOON : A COMPARATIVE IMPACT STUDY OF RAMP-ON AND RAMP-OFF OF FIRST STAGE EXPRESSWAY SYSTEM ON URBAN AREA. THESIS
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Traffic congestion has long been one of the most serious problems in Bangkok. The construction of expressway to solve the problem creates many impacts on urban area, especially in the area around the ramp-on and ramp-off of the expressway.

The objective of this research is to study the impacts of each ramp-on and ramp-off on urban area in terms of physical condition, landuse, road network, traffic condition and land price. In addition, the atmosphere and landscape in the area of each ramp-on and ramp-off, and the accidents occurred on the expressway have been focused.

The study reveals that

- the impacts of the ramp-on and ramp-off on the increase of land-use occurs in the suburban area more than the central urban area,
- convenience of accessibility is the most important factor of the activities in the nearby zone, and
- the pattern of the ramp-on and ramp-off is one of the causes of traffic congestion problem in the area.

The guideline for solving the problems resulted from the impacts of ramp-on and ramp-off of the expressway is that the design of the ramp-on and ramp-off of the further-stage expressway system should be focused on the support of the traffic in the area around the ramp, and the location of the ramp should not be in the central business district.