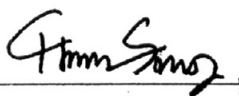
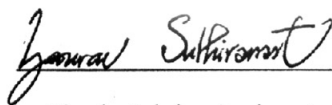


Cheranchan Saengvisut 2006: Changes of Open Space in Central Business District:
A Case Study of Bangrak District Area, Bangkok. Master of Urban and Environmental
Planning, Major Field: Urban and Environmental Planning, Department of Urban and
Environmental Planning. Thesis Advisor: Assistant Professor: Yaourai Suthiranart, Ph.D.
128 pages.
ISBN 974-16-2339-9

The purpose of the study is to study the physical change of the open space in Bangrak, Central Business District, from the street network development and the change of land use by using Geographic Information Systems analyze the aerial photograph and settelite photograph taken in 1952, 1974, 1987 and 2004. There is not enough open space per person in the mixed use area of Central Business District in Bangrak. The research results found that the expressway network development, major arterial, collector street and local street network connected Bangrak District without planning and controling from the government. They have impacted the changes of number and form of buildings in built up area along the street network through out open space of northern and eastern part of the district. This leads to the decrease of open space from 57.71 % in 1952 to 44.28 % in 2004, especially, the decreased of green open space which decreased from 8.96 % to 2.49 % of the whole area. Where as the increase of street network and the change of building's form, from houses, row houses, commercial buildings to high rise and big buildings, which impacted to the increase and decrease of hard surface open space in the southern part of the district. Furthermore, they impact to the open space pattern in each area. The over all open space patterns are linear open street, semi – public open space, open space at entrance of the building, interchange and parking. In addition, there are open space for commercial and services to cooperate with the undeveloped area in the western part of the district.



Student's signature



Thesis Advisor's signature

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