

## **An Exploration of Architecture Design Methods in Urban Fringe Belt Based on Typo-Morphological Research- A Case of Expansion Project of the Second Middle School in Xuancheng, China**

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**Abstract :** Urban fringe belt is an important part of urban morphology research. Different from the relatively fixed central district of city, the position of fringe belt is changing. In the process of urban expansion, the original fringe belt is likely to be merged by the new-built city, even become new city public center. During the change, we are facing the dialectic between restoring the organicity of old urban form and creating new urban image. There are lots of relevant research in urban scale, but when we focus on building scale, rare design method can be proposed, thus some new individual building cannot match the overall urban planning intent. The expansion project of the second middle school in Xuancheng is facing this situation. The existing campus is located in the south fringe belt of Xuancheng, Anhui province, China, adjacent to farmland and ponds. While based on the Xucheng urban planning, the farmland and ponds will be transformed into a big lake, around which new public center will be built; the expansion of the school becomes an important part of the boundary of the new public center. Therefore, the expansion project faces challenges from both urban and building scale. In urban scale, we analyze and summarize the fringe belt characters through the reading of existing and future urban organism, in order to determine the form of the expansion project. Meanwhile, in building scale, we study on different types of school buildings and select appropriate type which can satisfy to both urban form and school function. This research attempts to investigate design methods based on an under construction project in Xuancheng, a historic city in southeast China. It also aims to bridge the gap from urban design to individual building design through the typo-morphological research.

**Keywords :** design methods, urban fringe belt, typo-morphological research, middle school

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