

Design and Construction of Deep Excavations in Taiwan

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Abstract: Numerous deep excavations have been carried out in major cities in Taiwan for constructing infrastructures and basements for high-rise buildings. Discussed herein are the current status of the design and construction practice adopted. The concept of reference envelop is introduced and reference envelops have been established for the T2 Zone of the Taipei Basin for bottom-up excavations. Performance of individual diaphragm walls can be evaluated by comparing their deflection paths with reference envelops. Moreover, reference envelops can be used as a guide in performance-based design of diaphragm walls.

INTRODUCTION

With the rapid economic growth in the past decades, Taiwan has undergone drastic social reform with construction industry playing an important role. As more and more high-rise buildings are constructed, basements tend to go deeper and deeper. Furthermore, the majority of stations in the Taipei Rapid Transit Systems (TRTS) and the Kaohsiung Mass Rapid Transit System (KMRT) are underground. As a result, there is significant advancement in both design concept and construction practice of underground works. Presented herein are the current status of deep excavations on the island. Also presented is the concept of wall deflection path and reference envelop for evaluating the performance of walls and the effects of various factors affecting wall deflections. Based on the observations obtained, reference envelops have been established for the T2 Zone of the Taipei Basin for bottom-up excavations and these envelops can be used to guide the design of diaphragm walls.

GROUND CHARACTERIZATION

Since the majority of the cases presented hereinafter are located in the Taipei Basin, a geological zoning map is given in Figure 1 (Lee, 1996) for the convenience of readers and an east-west soil profile across the Basin is presented in Figure 2. As can be noted that at the surface is a thick layer of Sungshan Formation underlain by the Chingmei Gravels. The Basin is divided into 21 zones and in the central city area (T2 Zone), where the Taipei Main Station (BL7/R13 Station) is located, the six-sublayer sequence is evident. Toward the east (K1, K2 and K3 Zones), silty clay dominates, and toward the west (B2 and B3 Zones) the stratigraphy becomes rather complex with silty sand and silty clay seams interbedded in these sublayers. The Chingmei Gravels contains gravels of various sizes and is extremely permeable. This gravelly layer is practically an underground reservoir and has been responsible for several major failures during the first stage construction of TRTS. As can be noted from Figure 3 that the piezometric levels in the Chingmei Gravels were lowered by as much as 40m in the 70's as a result of excessive pumping of groundwater for industrial and

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