

近接施工規範以及審查制度推動成果與未來展望

高宗正

新北市政府

陳俊宏

臺北市政府捷運工程局中區工程處

李維峰

磐碩工程股份有限公司

摘 要

隨著都會區捷運系統逐步擴展與都市更新改建工程的增加，近接施工已成為都會區大地工程的重要課題，許多分析設計、探測、地盤改良、以及安全監測的新技術、工法與觀念也因為近接施工的特殊性與複雜性因應而發展。近接施工規範與審查制度的起草研議至今已達十六年，也有許多執行上的寶貴經驗與挑戰，本文主要介紹相關規範與審查制度的推動現況與成果，並提出未來精進方向，提供給工程界參考。

關鍵字：近接施工、審查制度、禁限建、安全監測。

Development and Future Challenges of Specifications and Reviewing Standard of Close Construction

Chung-Cheng Kao

New Taipei City Government

Chun-Hung Chen

Central District Project Office, Department of Rapid Transit Systems, Taipei City Government

Wei-Feng Lee

Ground Master Construction

Abstract

Close construction had become the most important urban geotechnical engineering topic along with the expansion of metro network and urban renovation. Many new technologies, construction measures, and even engineering concepts had been reformed or innovated based on increasing unique features and complexity of such constructions. In Taiwan, the construction specifications and reviewing standards of close construction was initiated 16 years ago. Valuable experience and challenges had learnt. In this paper, present progress and challenges of close construction specifications and regulations would be introduced and commented in addition to the historical development, and hopefully, this paper could provide some insights to engineers for future revolution of close construction.

Key Words : close construction, reviewing standard, construction restriction, safety monitoring.

一、前 言

大眾運輸系統為達到疏運旅客，進而促進沿線開發及繁榮之目的，其路線皆沿都會區中主要運輸走廊佈設。而且為了架構各路線成一完整的捷運路網，部份路線還須自建物密集區域下方穿越。因此，捷運興建階段必須以各種工程手段小心保護沿線鄰房，避免捷運施工造

成鄰房受損。待捷運建設完成後，則因帶動沿線發展，人口及商業陸續進駐，所以不斷有建築物新建、改建及公共工程施工，這些開發行為都可能損及捷運設施安全，使捷運變成被保護的對象，故須考慮如何管制各種開發及施工行為，避免捷運受損、營運中斷。

舉凡於捷運興建過程中遭遇與鄰近建物、構造物的保護或穿越施工，亦或捷運完工