CENTRAL PLAZA
Chaeng Wattana

Object
To improve shear strength of soft clay for basement excavation works using deep soil mixing method, soil-cement column construction.

Project Description
Up to –8.6m deep excavations in soft clay for construction of foundation footings and basement floors of a shopping complex and office tower.

Type of Work
Construction of block type soil retaining walls with soil-cement columns.

Owner
Central Plaza Public Company Limited.

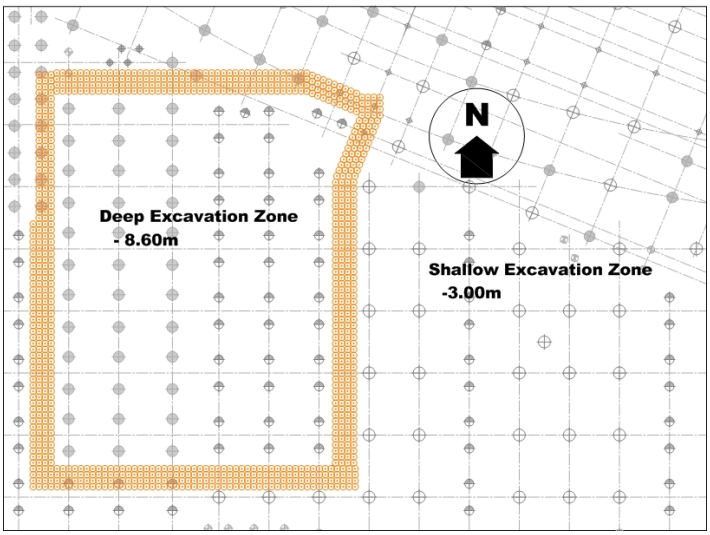
Main Contractor
Ritta Co., Ltd.

Project Schedule
April-May 2007

Construction Method
- Mechanical Deep Soil Mixing

Construction Details
Soil-Cement Columns: 874 (ϕ1.0mx12m)

Subsoil Conditions
Soft clay:	0.0-16.5m
Medium clay:	14.8-20.5m
Stiff clay:	16.5-21.5m
Clayey fine sand:	16.2-25.0m



Soil-cement Column Retaining System Layout.


Deep soil mixing (soil-cement column works) in progress.


Soil retained by soil-cement columns for basement excavation and construction works.

REFERENCES:

- Thasnanipan, N., Win M. A and Thayanan Boonyarak (2007) "Minimizing Ground Movement by Using Deep Soil Mixing Technique" (in Thai). The 12th National Convention on Civil Engineering. Phitsanulok, Thailand. pp 240-246.

No. 144, Praya Suren Road, Bangchan, Khlong Sam Wah, Bagkok 10510, Thailand. Tel. (662) 919-0090 to 97, Fax. (662) 919-0098, 518-3088. Email: seafco@seafco.co.th, Homepage: www.seafco.co.th.