Object
Construction of an U-turn underpass for Pattanakarn Road.

Project Description
700m long U-turn underpass for Pattanakarn Road at highway interchange.

Type of Work
Foundation piling, retaining walls for the underpass and concrete road pavement.

Owner
The Bangkok Metropolitan Authority.

Designer
The Bangkok Metropolitan Authority.

Project Schedule
2002-2003

Construction Method
- Excavation with sheet pile and circular steel casing using bottom up construction method to −7.0m.

Construction Details
Foundation bored pile: 1,680 (φ0.35mx21.0m)  
81 (φ0.5mx21.0m)

Subsoil Conditions
Soft clay: 0.0-13.0m  
Medium clay: 13.0-15.0m  
Stiff clay: 15.0-19.0m  
Dense sand: 19.0-32.0m  
Hard clay: 32.0-39.0m  
Very dense sand: 39.0-41.0m

REFERENCES:
• Completed Pathanakarn U-turn Underpass

No. 144, Prayasren Road, Bangchan, Khlong Sam Wah, Bangkok 10510, Thailand. Tel. (66) 919-0090 to 97, Fax. (66) 919-0098, 518-3088. Email: seafco@seafco.co.th, Homepage: www.seafco.co.th.