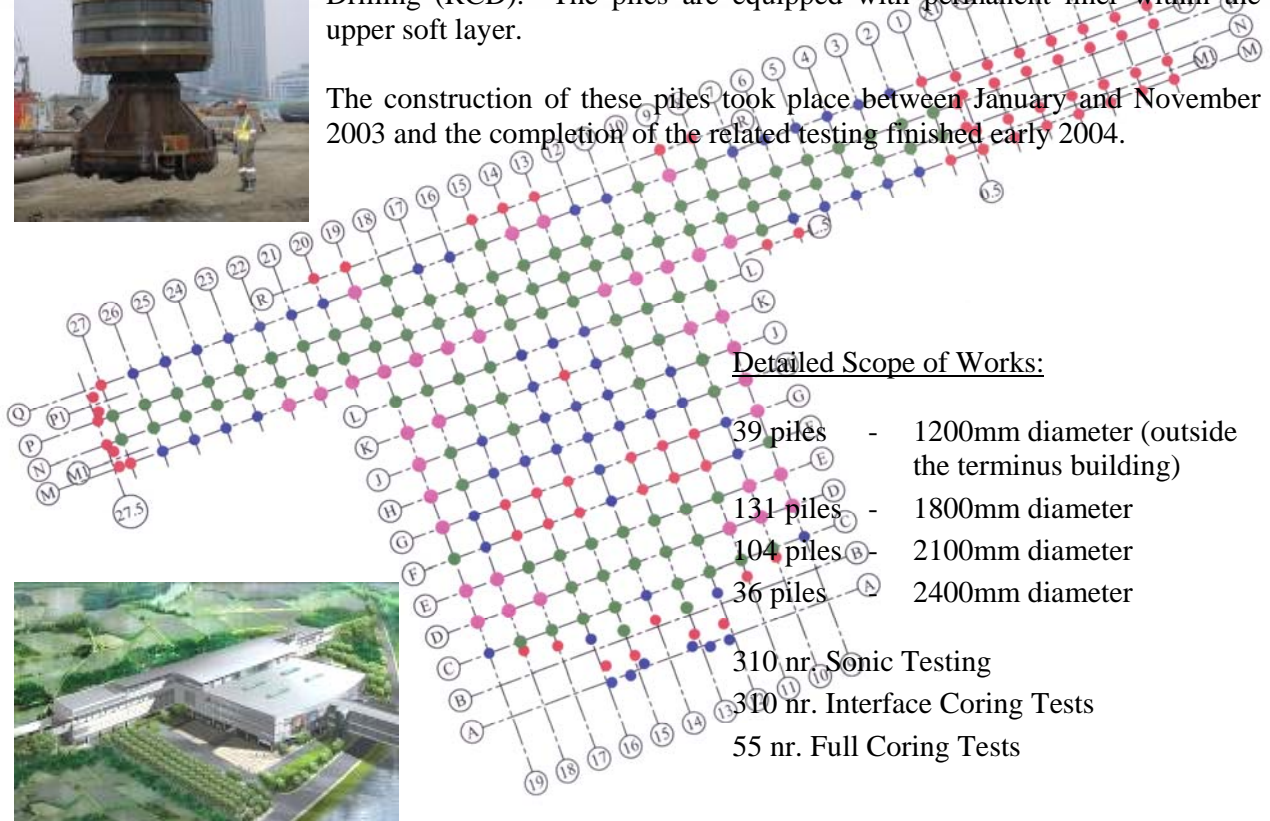


Construction of Large Diameter Bored Piles



The Lok Ma Chau Terminus is part of the KCRC's Spur Line linking Sheung Shui Station to the Chinese border. The building of the terminus is supported by 271 nr. large diameter bored piles of various size founded on rock Grade III or better. For the construction of these piles, temporary casing is lowered down into the soil layer using a vibrator, the soil is excavated and a rock socket is formed by means of Reverse Circulation Drilling (RCD). The piles are equipped with permanent liner within the upper soft layer.

The construction of these piles took place between January and November 2003 and the completion of the related testing finished early 2004.



Construction of Large Diameter Bored Piles



Some Quantities

Concrete : 36,000m³
Steel : 3,152T
Permanent Liner : 5,000m
Average Pile Depth : 35m

Resources

10 piling rigs and cranes
75 persons

Safety is a Top Priority

The project team obtained the
"Best Sub-Contractor Safety
Award".

*Steel cage equipped with
reservation tubes for sonic
testing and interface
coring*



*Sonic Test of one 2400mm
diameter bored pile*

OWNER :
Kowloon-Canton Railway Corporation

ENGINEER :
Mott Connell Limited

MAIN CONTRACTOR :
Balfour Beatty-Lam Joint Venture

FOUNDATION CONTRACTOR:
INTRAFOR-Trevi Joint Venture

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