

RAMA VIII BRIDGE PROJECT

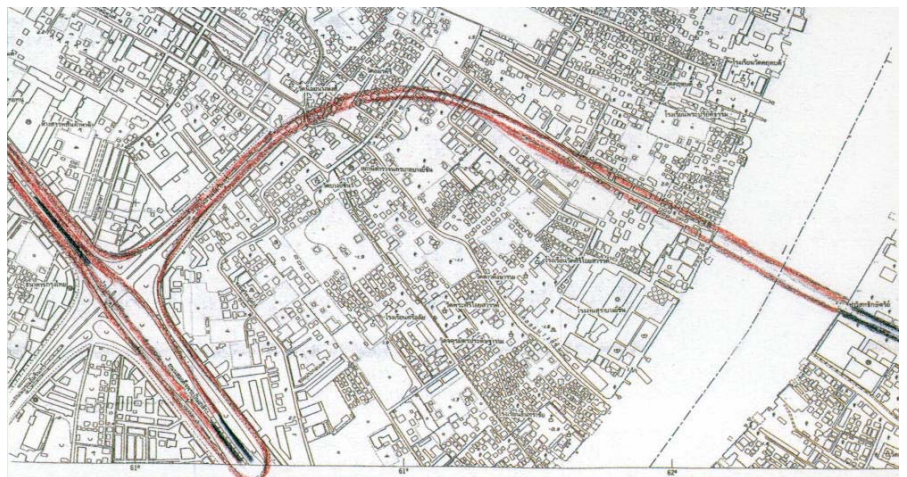
Bored Pile Work

Technical Reference No. 14/2000

GENERAL

Rama VIII Bridge Project is one of H.M. King Bhumibol's initiatives in relieving the traffic congestion problems in Bangkok. The bridge was granted the name "Rama VIII" by the King in commemoration of his elder brother King Ananda. It is located to the north of Somdet Pra Pinklao Bridge and ahead of Thornburi Bridge. It connects with Bromratchachonnanee Interchange at Arun Ammarin Intersection, then runs past Arun Ammarin Road to cross the Chao Phraya River, and finally joins the end of Visutkasat Road near the Bank of Thailand.

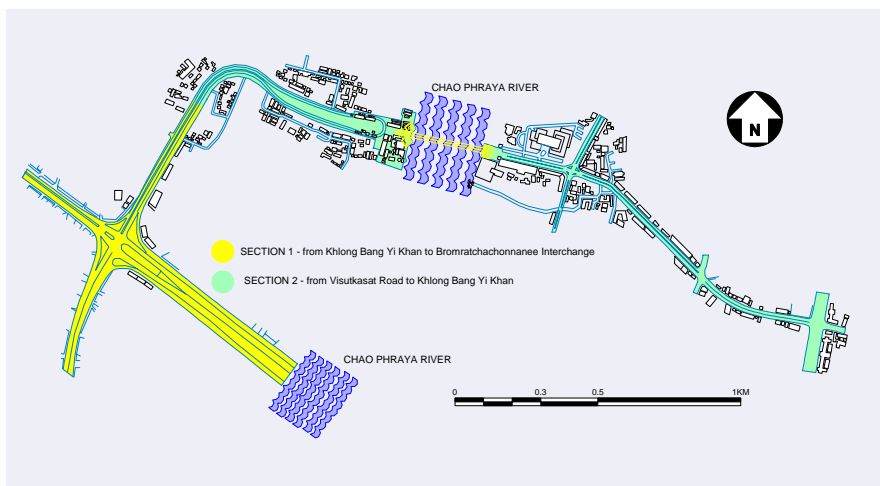
Bored piles of 0.8-1.0m support viaducts while approach and ramp sections are generally supported by dia. 0.5-0.6m bored piles. Bored piles of 1.5m in diameter support the main bridge.



H. M. King Bhumibol bestowed to BMA a proposed route for Rama VIII Bridge Project in his handwriting (15 July 1995).

WORK UNDERTAKEN (BORED PILING)

Section I	Dia. 0.5mx21.0m	12 nos.
	Dia. 0.6mx36.5m	13 nos.
	Dia. 0.8mx36.5m	76 nos.
	Dia. 1.0mx36.5m	213 nos.
Section II	Dia. 0.8mx45m	416 nos.
	Dia. 1.5mx54m	36 nos.



Layout of the project.



Piling in the main bridge area.

TYPE OF WORK: Foundation Piles
OWNER: Bangkok Metropolitan Administration
MAIN CONTRACTOR: KPV, CSCEC, PPD & BBR Joint Venture
PERIOD: 1999-2000



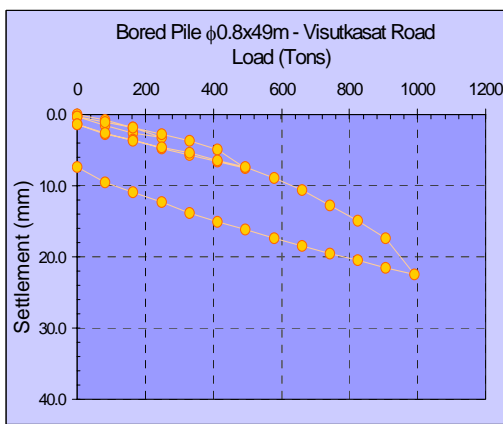
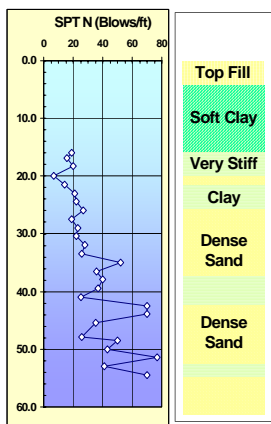
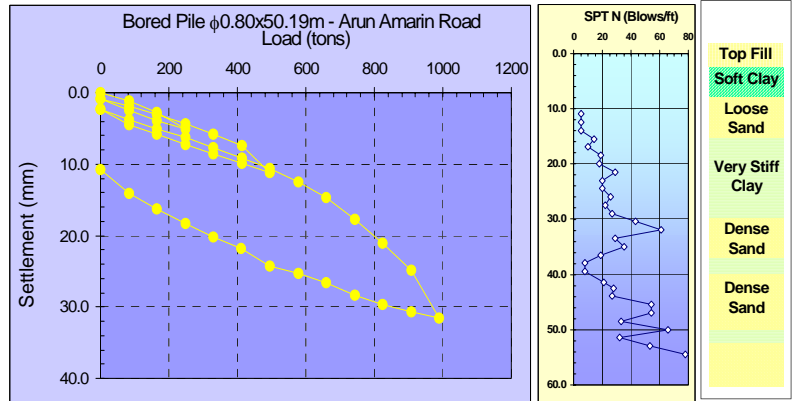
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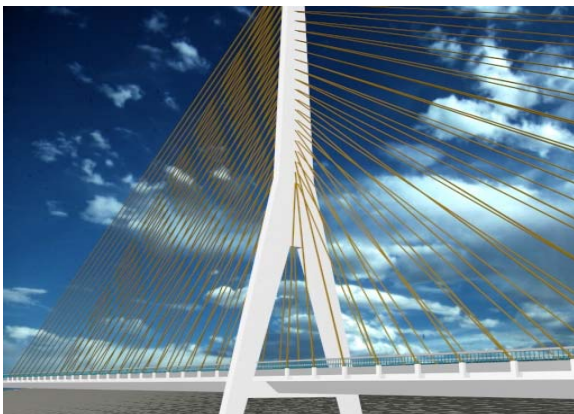
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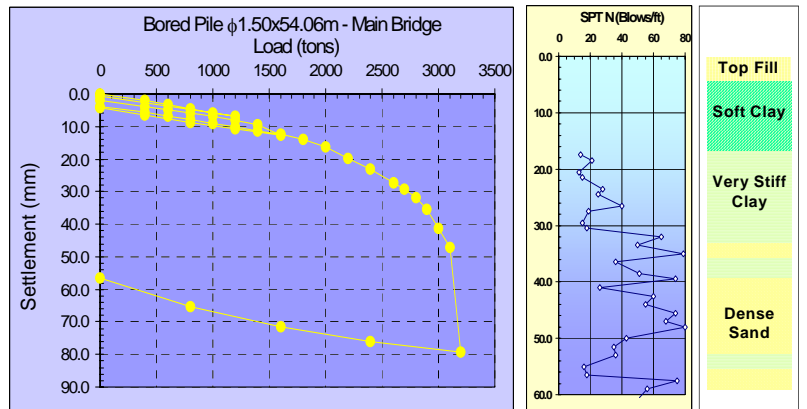
Bored piling in progress in the main bridge area.



Piling in progress for the viaduct in front of the Bank of Thailand.



Shape of the main bridge section (schematic).



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References:

- Thasnanipan, N., Tanseng, P. and Anwar M. A. (1998), "Large Diameter Bored Piles in Multi-layered Soils of Bangkok", Third International Geotechnical Seminar on Deep Foundations on Bored and Auger Piles, Ghent, Belgium, October 19-21, 1998. Pp. 511-518.
- Thasnanipan, N., Anwar, M. A. and Maung, A. W. (1999), "Failure Mechanism of Long Bored Piles in Layered Soils of Bangkok", The Civil and Environmental Engineering Conference – New Frontiers and Challenges, Bangkok, Thailand, November 8-12, 1999. Pp. V-69-74.
- Thasnanipan, N. Teeparaksa, W., Maung A. W. and Baskaran G. (1998), "Design, Construction and Behavior of Bored Cast-in-situ Concrete Piles in Bangkok Subsoil", Fourth International Conference on Case Histories in Geotechnical Engineering, St. Louis, Missouri, USA, March 9-12, 1998. Pp. 281-287.

