D-runway News Letter (No.1')

March 26, 2008

国土交通省 関東地方整備局

http://www.pa.ktr.mlit.go.jp/haneda

Sea bed soil improvement for reclamation and sea walls completed !!

■ "Sand Compaction Pile (SCP) Method" is applied to sea bed soil improvement for "gently sloped rubble mound sea walls".

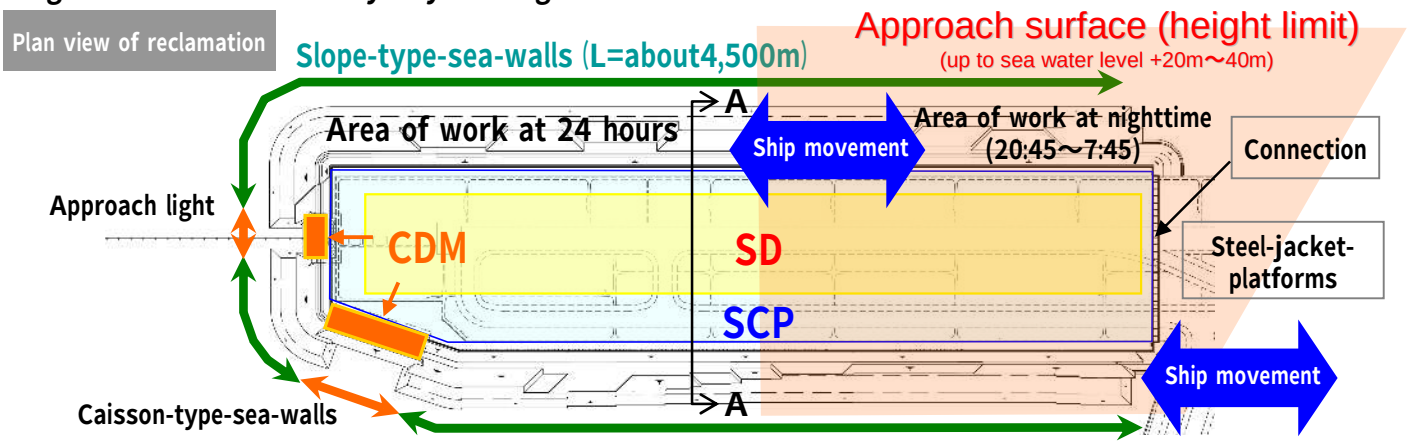
■ Sand piles of 2.0m diameter and 3.0m × 3.5m arrangement (30% replacement) are constructed into sea bed soft clay down to sea bottom -26m at maximum.

■ Sea bed soil improvement for reclamation, which is surrounded by sea walls, is done by "Sand Drain (SD) Method".

■ Sand piles of 40cm diameter and 1.6m×2.5m arrangement (3% replacement) as vertical drainage are constructed into sea bed soft clay down to sea bottom -22m.

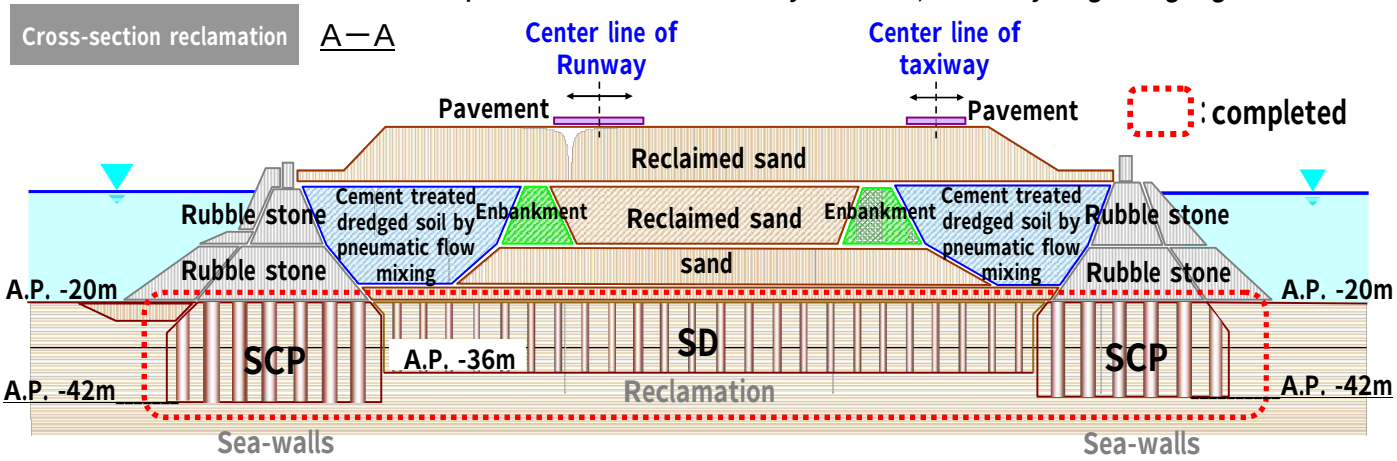
■ Due to severe height limit by the approach surface, each working vessel was forced to do improvement work by hectic movement from/to night-only-working area (20:45-7:45) to/from no height limitation area every day and night.

Plan view of reclamation



※*A total GPS monitoring system* of all vessels was introduced to this soil improvement work to avoid any accidents, and everything was going well.

Cross-section reclamation A－A



Sea bed soil improvement vessels

SCP: April 25,2007～December 12,2007 (completed)

SD: November 11,2007～March 26,2008 (completed)

	-SCP working vessels-	-SD working vessels-
■Number of vessels	13 working vessels at maximum	4 working vessels at maximum
■Maximum height of working vessels	about 80m	about 70m
■Construction amount (amount of sand piles)	about 70,000 piles	about 180,000 piles
■Improvement specifications	3.0m×3.5m, φ2000 (30% replacement)	1.6m×2.5m, φ400 (3% replacement)