D-runway News Letter (No.2)

April 1, 2008

国土交通省 関東地方整備局

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

One year has passed since Haneda D-runway construction work started in March 2007.

☐Past movement

March 29, 2005.
A construction contract was concluded.

- Negotiations on fishery compensation finished.
- Use of Environmental Impact Assessment finished.
- Reclamation of public waters was approved.

March 30, 2007.
Construction work started.

- Seabed soil improvement of reclamation area completed in March 2008.
- Prefabrication of steel jacket and installation it. (Steel-jacket-platforms and Connection bridges sections.)

March 29, 2008.
1year has passed since construction work started.

☐A summary of seabed soil improvement

・Sand Compaction Pile (SCP) method [April,2007～Decemder,2007]

SCP method is a method of improving soft soil by building dense sand piles into the ground.

Improvement specification：3.0m×3.5m , Diameter：2.0m,
Improved length of a sand piles：about 25m, Constructed amount：71,747 piles,
The total length of sand piles ：about 1,200km

・Cement Deep Mixing (CDM) method [November,2007～February,2008]

CDM method improves soft sea bed marine clay as a rigid foundation by mixing soils with cement directly.

Improved width : Foundation of caisson-type-seawalls : CN
width 55m×length 125m×depth 28.5m, improved : 28.5m
Foundation of caisson-type-seawalls : CW
width 60m×length 245m×depth 28.5m, improved : 28.5m
Improved length28.5m
Constructed amount：4,525 cement deep mixing piles.

・Sand Drain (SD) method [July,2007～March,2008]

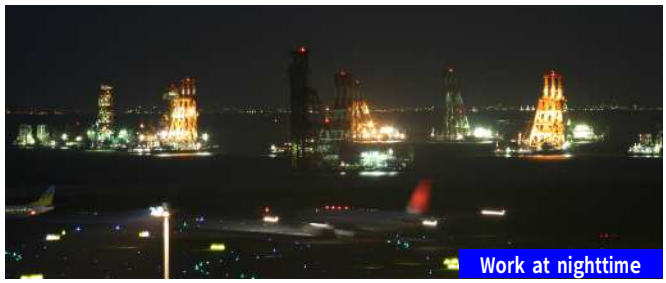
SD method develop vertical drainage system in the foundation ground.

Improvement specification：1.6m×2.5m, Diameter：0.4m,
Improved length of a sand piles ：about 20m,
Constructed amount：183,846 piles,
The total length sand piles：about 3,900km

※Amount of sand used for seabed soil improvement：Approximately 1,100,000m³

☐Photos

image


Work at nighttime


Work at daytime

CDM working vessels

☐Prefabrication and installation of steel jacket


Prefabrication of a steel jacket


Installation of a steel jacket for steel plat forms


Installation of a steel jacket for connection bridges