

## X CONSTRUCTION MATERIALS

**Project Title: SOIL STABILIZATION TEST WORK ON THE MANILA-CAVITE COASTAL ROAD AND RECLAMATION PROJECT**

**Name and Address of Principal Investigator:** Planning and Engineering Services Office  
Construction & Development Corporation of the Philippines (CDCP)  
J.B. Building, 351 Buendia Ave. Ext., Makati, Metro Manila

**Description of the Project:** Field test on different methods of soil stabilization namely: (1) Sand Drain; (2) Vibro Compozer; (3) Wellpoint Method; and, (4) Pre-Loading Method were carried out at the Financial Center Area of the Manila Bay Reclamation Project to solve problems of "settlement" and "instability".

**Project Cost and Source of Funding:** Approximately ₱ 3 million, by CDCP  
**Cooperating Agencies:** a. CDCP  
b. Kawasaki Steel Corporation Engineering Center

**Date Started:** April 1977

**Date of Completion:** November 1977

**Present Status of the Project:** Completed

**Project Title: SOIL STABILIZATION TEST WORK AT THE NORTH LUZON EXPRESSWAY STAGES I & II**

**Name and Address of Principal Investigator:** a. Planning and Engineering Services Office Construction & Development Corporation of the Philippines (CDCP)  
J.B. Building, 351 Buendia Ave. Ext., Makati, Metro Manila

b. NORCONSULT A.S.  
ADC Building  
6805 Ayala Avenue  
Makati, Metro Manila

**Description of the Project:** Test work was conducted at the North Luzon Expressway for the purpose of assessing the applicability and effectivity of prefabricated drains in the Philippines. Three (3) types of drains were tested:

1. Geodrain;
2. Castleboard; and,
3. Tafnel.

The effects of these drains were compared with those test pads with surcharge only.

**Project Cost and Source of Funding:** Approximately ₱ 1 million, by the following:

- a. CDCP Tollways Department
- b. CDCP Planning & Engineering Services Office

Cooperating Agencies: a. CDCP Highway Construction Department  
b. CDCP Tollways Department

Date Started: July 1979

Date of Completion: May 1980

Present Status of the Project: Completed

Other Relevant Information: The performance of the prefabricated drains were below expectations.

**Project Title: FNU BULKHEAD TESTWORK**

Name and Address of Principal Investigator: Planning & Engineering Services Office, Construction & Development Corporation of the Philippines (CDCP)  
J.B. Building, 351, Buendia Ave. Ext., Makati, Metro Manila

Description of the Project: A bulkhead design, deemed to be the most economical scheme, is being tested in the field. A 45-meter-length section along the Seaside Channel was selected for this purpose. The scheme includes H-piles spaced at 3.24 m supporting concrete and wooden panels in between with rockmound counter-weight on the channel side.

Project Cost and Source of Funding: Approximately P 800,000.00 by Marina Properties Corporation

Cooperating Agencies: a. CDCP Realty Development Department  
b. Ministry of Public Highways/Public Estates Authority

Date Started: December 17, 1979

Expected Date of Completion: April, 1981

Present Status of the Project: On-going

Other Relevant Information: Presently, only the H-piles and panelings are installed. Rockmound and fill will be placed as soon as the materials are ready.