

**PROPOSED DRAINAGE AND SEWERAGE SYSTEM OF BARANGAY
BANABA LEJOS, INDANG, CAVITE**

APPROVAL SHEET

An undergraduate **DESIGN PROJECT**
submitted to the faculty of the
Department of Civil Engineering,
College of Engineering and Information Technology,
CAVITE STATE UNIVERSITY
Indang, Cavite

In partial fulfillment
of the requirements for the degree of
Bachelor of Science in Civil Engineering



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*Proposed drainage and sewerage system of
barangay Banaba Lejos, Indang, Cavite
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ABSTRACT

RICAFRENTE, RICHARD L., LEA L. VICEDO, "Proposed Drainage and Sewerage System of Barangay Banaba Lejos, Indang, Cavite ". Undergraduate Design Project. Bachelor of Science in Civil Engineering. Cavite State University, Indang, Cavite .April 2004. Adviser: Engineer Renato B. Cubilla.

The proposed Drainage and Sewerage System of Barangay Banaba Lejos, Indang, Cavite was conducted at Cavite State University, Indang, Cavite from January 2003 to March 2004.

The primary objective of the study was to provide a design of drainage and sewerage system of Barangay Banaba Lejos, Indang, Cavite which can be used as reference of the incoming Civil Engineering students, Municipality of Indang, and Cavite State University for future implementation.

The study comprised the design of drainage system, sewerage system, detailed cost estimates of the materials used and the labor cost using the man – hour basis.

The drainage system was the CHB Lined Open Canal with concrete cover and had the depth of 0.6 meter and width of 1.0 meter. The estimated materials and labor costs were P 820.00 and P 230.00 per linear meter. For the entire study, the estimated cost were P 2, 497, 380.00 for material cost and P 698, 800.00 for labor cost with the total of P 3, 196, 180.00.

The sewerage system covered only the suggested design of individual septic tank for each households of the barangay, with the depth of 1.5 meter, length of 1.5 meter including the leaching well and width of 0.9 meter with a capacity of five persons per household. The entire cost of constructing one unit of septic tank was P 3, 265.00.

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