PROPOSED REINFORCED CONCRETE DESIGN OF THE CENTER FOR PERFORMING ARTS BUILDING AT CAVITE STATE UNIVERSITY DON SEVERINO DE LAS ALAS CAMPUS, INDANG, CAVITE

DESIGN PROJECT

CELWYN S. AURE
MYER RIZ A. CRIZALDO
FRANCES GRACE E. POLINGA

College of Engineering and Information Technology
CAVITE STATE UNIVERSITY
Indang, Cavite

APRIL 2004

PROPOSED REINFORCED CONCRETE DESIGN OF THE CENTER FOR PERFORMING ARTS BUILDING AT CAVITE STATE UNIVERSITY DON SEVERINO DE LAS ALAS CAMPUS, INDANG, CAVITE

Undergraduate Design Project
Submitted to the Faculty of the
Cavite State University
Indang, Cavite

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

CELWYN S. AURE
MYER RIZ A. CRIZALDO
FRANCES GRACE E. POLINGA

April 2004

ABSTRACT

AURE, CELWYN S., CRIZALDO, MYER RIZ A. and FRANCES GRACE E. POLINGA, Proposed Reinforced Concrete Design of the Center for Performing Arts Building at Cavite State University – Don Severino de las Alas Campus, Indang, Cavite. Undergraduate Design Project. Bachelor of Science in Civil Engineering. Cavite State University, Indang, Cavite. April 2004. Adviser: Engr. Renato B. Cubilla.

The proposed reinforced concrete design of the Center for Performing Arts Building at Cavite State University – Don Severino de las Alas Campus was conducted at the Cavite State University Main Campus from July 2003 to April 2004. It was evaluated in February 2004 at the Audio Visual Room, Department of Civil Engineering, College of Engineering and Information Technology.

The design of structural members was based on the Structural Aid Analysis and Design (STAAD III) output, the specifications set by the National Structural Code of the Philippines (NSCP), American Concrete Institute (ACI) Code and the Codes and Specifications for Ultimate Stress Design.

The authors enhanced, developed and applied the skills and knowledge in various aspects of structural design and analysis.

The general objective of the proposed project was to develop and design a Center for Performing Arts Building at the Cavite State University – Don Severino de las Alas Campus. The detailed architectural plans were provided by Architect Jun Bayot from the Physical Planning Services unit of the university. Structural plans were based from the result of actual computation in which all structural members were checked for strength, stability and economy. The standard specifications for the

entire proposed project were based on the requirements as specified in the scope of works and other existing codes in the Philippines. The cost estimates were computed based on the architectural and structural plans and the required scope of works. The material costs were based on the present price in the local market.

TABLE OF CONTENTS

LIST OF APPENDICES

LIST OF TABLES

PROPOSED REINFORCED CONCRETE DESIGN OF THE CENTER FOR PERFORMING ARTS BUILDING AT CAVITE STATE UNIVERSITY-DON SEVERINO DE LAS ALAS CAMPUS, INDANG, CAVITE [1/]

CELWYN S. AURE
MYER RIZ A. CRIZALDO
FRANCES GRACE E. POLINGA

An undergraduate design project outline 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 graduation with the degree of Bachelor of Science in Civil Engineering (BSCE). Contribution No. BSCEng'g-2003-2004-1-066-02. Prepared under the supervision of Engr. Renato B. Cubilla.

INTRODUCTION

Performing on stage is really a part of the Filipino culture. Our passion for art and our love for music prove that we have a very rich culture. Filipinos really love to act, sing and dance ever since. Every individual has a talent within that needs to be enhanced. A Center for Performing Arts plays a great role in doing so. It is where individuals, especially the students can practice and show their hidden talents. Various activities and related event can be also held in the Center for Performing Arts.