Republic of the Philippines
WESTERN MINDANAO STATE UNIVERSITY
**PHYSICAL PLANT AND ENGINEERING SERVICES**
Zamboanga City

# PROJECT PROFILE

| | | |
|---|---|---|
| **PROJECT TITLE** | : | **CONSTRUCTION OF THE COLLEGE OF TEACHER EDUCATION ACADEMIC BUILDING** |
| **ABC** | : | **PhP 47,000,000.00** |
| **TOTAL FLOOR AREA** | : | **1,240 sq.m.** |
| Ground Floor | : | 496 sq.m. |
| 2nd Floor | : | 496 sq.m. |
| 3rd Floor | : | 248 sq.m. |
| **NO. OF STOREY** | : | **THREE (3) STOREY** |
| **COST PER SQ.M.** | : | **PhP 37,903/sq.m.** |
| **PROJECT CONSTRUCTION DURATION** | : | **390 Calendar Days** |
| **NO. OF CLASSROOMS** | : | 10 Classrooms x 40 Students/room<br>= 400 Students<br>(7.00 x 9.00meter = 63 Sq.m.)<br>(GF- 4, 2F- 4 & 3F- 2 Classrooms |

**TOILET** : Male, Female, PWD & Gender Neutral Toilets @ GF
Male Toilet @ 2F & Male & Female Toilets @ 3F.

A comprehensive building statutory compliance checklist covers building codes, fire safety, environmental regulations, health and safety, structural integrity, and accessibility,

**Building Codes & Structural Integrity**:

- Ensuring the building's foundation, walls, and roof meet current structural code requirements.
- Adhering to building regulations for construction and alterations

**Fire Safety & Equipment:**

- Installation fire sprinkler system, smoke detectors and fire alarms.
- Proper placement of fire extinguishers.
- Ensures clear and unobstructed fire exits and escape routes

**Health & Safety:**

- Compliance with health and safety regulations.
- Appropriate lighting and ventilation within the building

**Accessibility:**

- The building is accessible to people with disabilities, through ramps, elevators, and proper signage.

**Green Architecture:**

- Energy Efficiency: Using energy-efficient ventilation, lighting, and appliances, as well as alternative energy sources like solar and wind power.
- Water Conservation: Incorporating plumbing fixtures and designs that reduce water consumption, rainwater harvesting systems for landscaping and toilet flushing.
- Thermal roof insulation create a building envelope that minimizes heat transfer, which directly supports the core green principle of energy efficiency.

**Common building materials** used are raw & manufactured substances used in construction are the following; Concrete, Steel, Wood, Stone, Masonry, Glass, Aluminum & Insulation.

**Building Structural Components** using the materials above are assembled into the following;

**Foundation**: The base of the building that supports the entire structure.
**Walls**: Vertical structures that enclose and support the building.
**Beams and Columns**: Vertical and horizontal structural elements that carry loads from the roof and floors to the foundation.

**Floors:** The flat surfaces that support people and furniture, connecting different levels of the building.
**Roof:** The uppermost part of the building that provides shelter.
**Doors and Windows:** Openings in the walls that provide access and allow for natural light and ventilation.
**Plumbing and Electrical Systems:** The pipes and wiring systems for water, waste, and power.

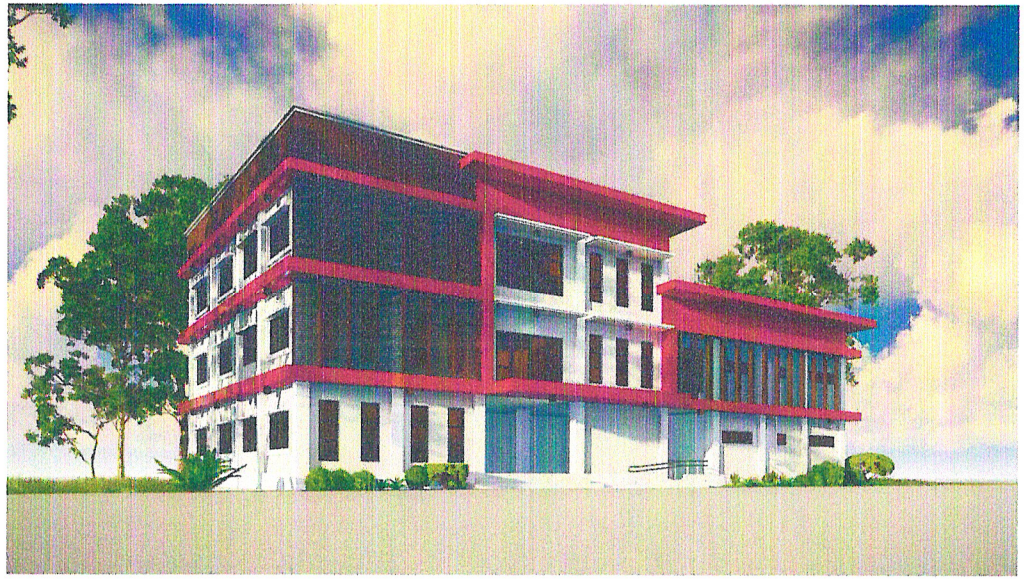
PERSPECTIVE

Prepared by:

**ARCH. JOSEPH ANDREW L. SAHIAL**
Director, PPES/ University Architect
PDO-III

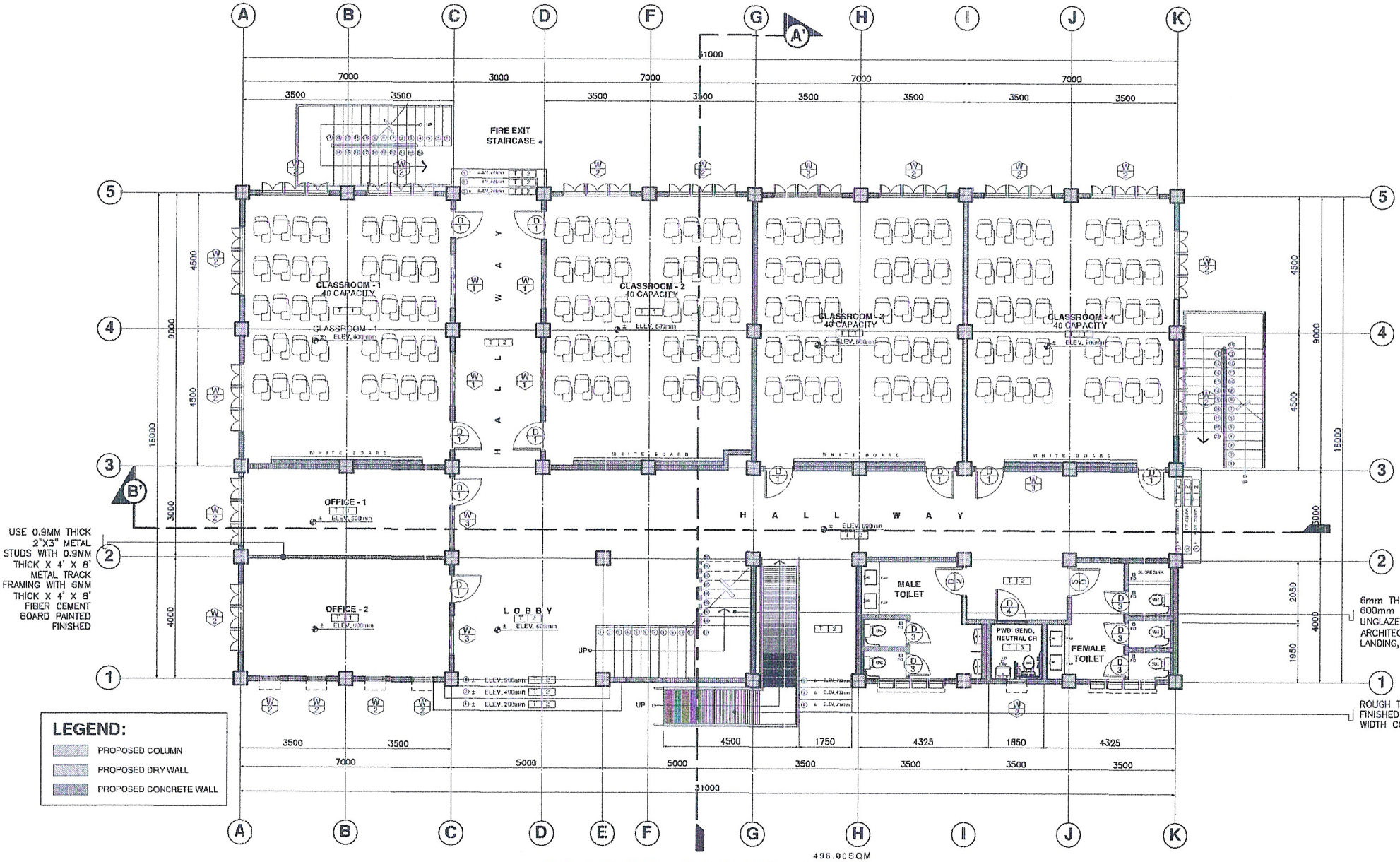
EXTERIOR PERSPECTIVE

EXTERIOR PERSPECTIVE



EXTERIOR PERSPECTIVE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DESIGNED BY: ARCH. JOSEPH ANDREW L. SAHIAL,UAP, UNIVERSITY ARCHITECT; PRC: 0010577 \| PTR: 3344412 \| TIN: 445-013-228 | PROJECT TITLE: CONSTRUCTION OF COLLEGE OF TEACHER EDUCATION ACADEMIC BUILDING; LOCATION: WMSU CAMPUS A, NORMAL ROAD, ZAMBOANGA CITY | REQUISITIONER | RECOMMENDING APPROVAL: ARCH. JOSEPH ANDREW L. SAHIAL,UAP, DIRECTOR OF PHYSICAL PLANT AND ENGINEERING SERVICES; PRC: 0010577 \| PTR: 3344412 \| TIN: 445-013-228 | RECOMMENDING APPROVAL: DR. JOSELITO D. MADROÑAL, VICE PRESIDENT FOR ADMIN AND FINANCE | APPROVED BY: DR. MA. CARIDA A. OCHOTORENA, WMSU-PRESIDENT | SHEET CONTENTS; DRAFTED BY: RVS | SHEET NO. A01 01\|04 | |

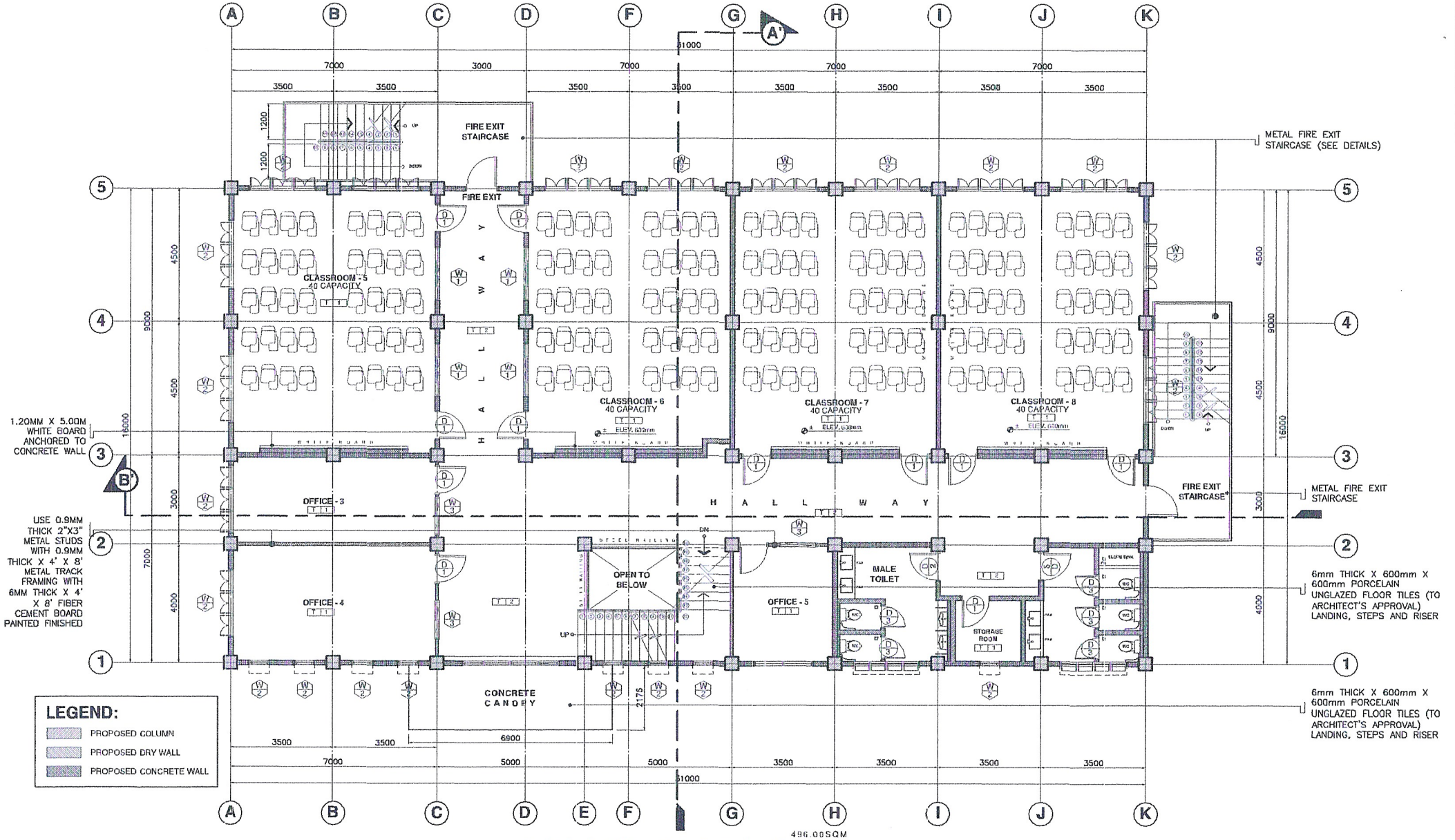



496.00SQM

## GROUND FLOOR PLAN

SCALE 1:125MTRS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DESIGNED BY: ARCH. JOSEPH ANDREW L. SAHIAL,UAP, UNIVERSITY ARCHITECT; PRC: 0010577 PTR: 3344412 TIN: 445-013-228 | PROJECT TITLE: CONSTRUCTION OF COLLEGE OF TEACHER EDUCATION ACADEMIC BUILDING; LOCATION: WMSU CAMPUS A, NORMAL ROAD, ZAMBOANGA CITY | REQUISITIONER | RECOMMENDING APPROVAL: ARCH. JOSEPH ANDREW L. SAHIAL,UAP, DIRECTOR OF PHYSICAL PLANT AND ENGINEERING SERVICES; PRC: 0010577 PTR: 3344412 TIN: 445-013-228 | RECOMMENDING APPROVAL: DR. JOSELITO D. MADROÑAL, VICE PRESIDENT FOR ADMIN AND FINANCE | APPROVED BY: DR. MA. CARLA A. OCHOTORENA, WMSU-PRESIDENT | SHEET CONTENTS | SHEET NO. A02 02 04 |
| | | | | | | DRAFTED BY: RVS | |

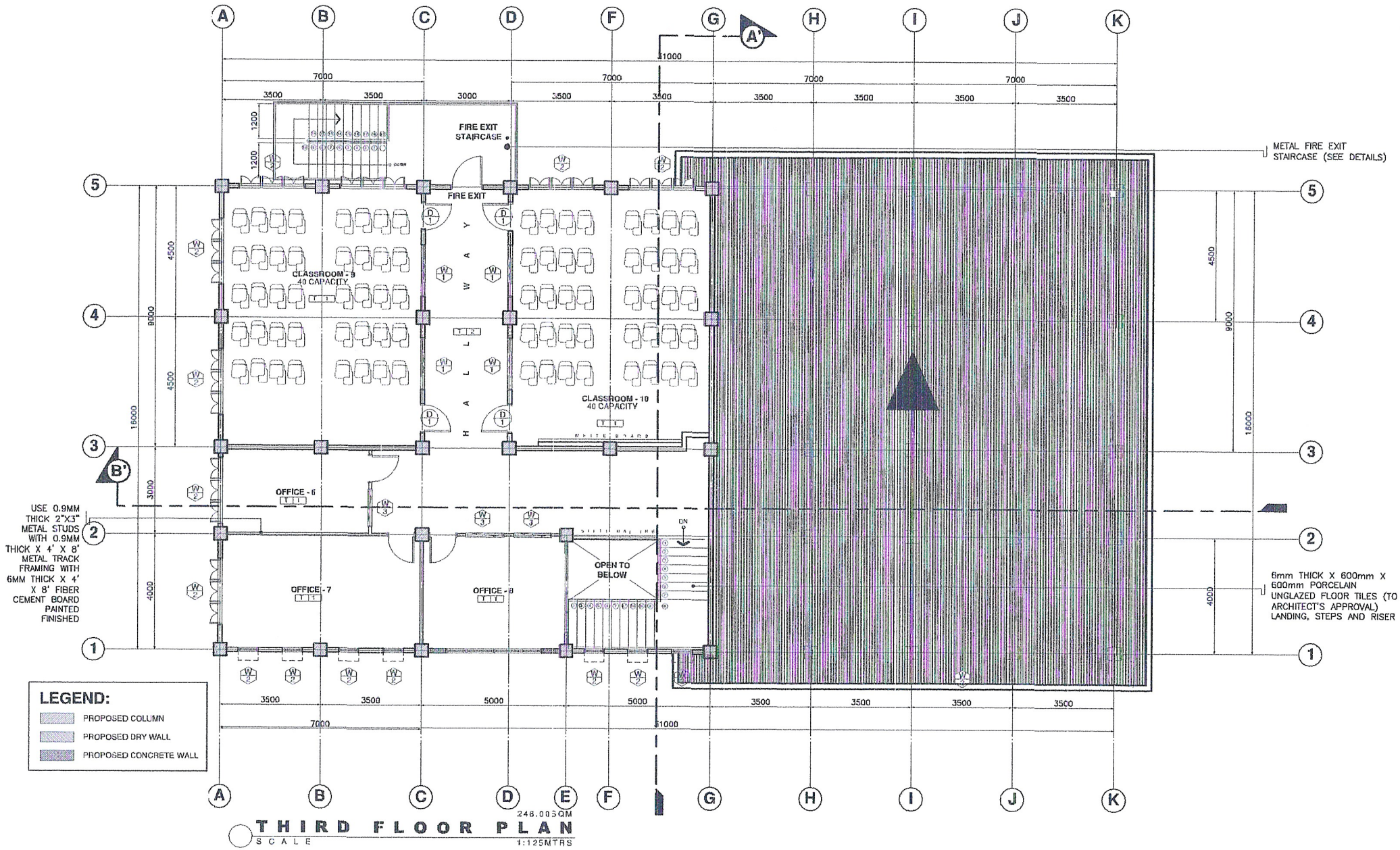



496.00SQM

## SECOND FLOOR PLAN

SCALE 1:125MTRS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DESIGNED BY: ARCH. JOSEPH ANDREW L. SAHIAL,UAP, UNIVERSITY ARCHITECT; PRC: 0010577 PTR: 3344412 TIN: 445-013-228 | PROJECT TITLE: CONSTRUCTION OF COLLEGE OF TEACHER EDUCATION ACADEMIC BUILDING; LOCATION: WMSU CAMPUS A, NORMAL ROAD, ZAMBOANGA CITY | REQUESTIONER | RECOMMENDING APPROVAL: ARCH. JOSEPH ANDREW L. SAHIAL,UAP, DIRECTOR OF PHYSICAL PLANT AND ENGINEERING SERVICES; PRC: 0010577 PTR 3344412 TIN: 445-013-228 | RECOMMENDING APPROVAL: DR. JOSELITO D. MADROÑAL, VICE PRESIDENT FOR ADMIN AND FINANCE | APPROVED BY: DR. MA. CARLA A. OCHOTORENA, WMSU-PRESIDENT | SHEET CONTENTS; DRAFTED BY: RVS | SHEET NO. A03 03\|04 |




248.00SQM

# THIRD FLOOR PLAN

SCALE 1:125MTRS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DESIGNED BY: ARCH. JOSEPH ANDREW L. SAHIAL,UAP, UNIVERSITY ARCHITECT; PRC: 0010577 PTR: 3344412 TIN: 445-013-228 | PROJECT TITLE: CONSTRUCTION OF COLLEGE OF TEACHER EDUCATION ACADEMIC BUILDING; LOCATION: WMSU CAMPUS A, NORMAL ROAD, ZAMBOANGA CITY | REQUESTIONER | RECOMMENDING APPROVAL: ARCH. JOSEPH ANDREW L. SAHIAL,UAP, DIRECTOR OF PHYSICAL PLANT AND ENG NEERING SERVICES; PRC: 0010577 PTR 3344412 TIN: 445-013-228 | RECOMMENDING APPROVAL: DR. JOSELITO D. MADRONAL, VICE PRESIDENT FOR ADMIN AND FINANCE | APPROVED BY: DR. MA. CARLA A. OCHOTORENA, WMSU-PRESIDENT | SHEET CONTENTS | SHEET NO. A04 04 04 |
| | | | | | | DRAFTED BY: RVS | |

Republic of the Philippines
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Zamboanga City
**PHYSICAL PLANT AND ENGINEERING SERVICES**

# BILL OF ESTIMATED MATERIALS

Project Title: **CONSTRUCTION OF THE COLLEGE OF TEACHER EDUCATION ACADEMIC BUILDING**
Location: **WMSU Main Campus A, Normal Road, Baliwasan, Zamboanga City**

## SCOPE OF WORK

| ITEM NO. | DESCPRIPTION | LABOR | MATERIAL | EQUIPMENT | TOTAL |
|---|---|---|---|---|---|
| B | GENERAL REQUIREMENTS | ₱ 194,865.78 | ₱ 132,508.73 | ₱ 452,088.62 | ₱ 779,463.13 |
| ITEM 801 | REMOVAL OF STRUCTURE AND OBSTRUCTIONS | ₱ 72,609.01 | ₱ - | ₱ 611,091.62 | ₱ 683,700.63 |
| ITEM 803 | STRUCTURE EXCAVATION | ₱ 31,880.68 | ₱ - | ₱ 477,395.40 | ₱ 509,276.08 |
| ITEM 804 | EMBANKMENT | ₱ 152,839.69 | ₱ 401,151.85 | ₱ 44,206.86 | ₱ 598,198.40 |
| ITEM 807 | SITE DEVELOPMENT | ₱ 70,699.41 | ₱ 185,561.73 | ₱ 20,448.87 | ₱ 276,710.01 |
| ITEM 900 | REINFORCED CONCRETE | ₱ 1,042,879.58 | ₱ 3,174,739.07 | ₱ 1,404,373.69 | ₱ 5,621,992.33 |
| ITEM 901 | PLAIN/LEAN CONCRETE | ₱ 39,261.20 | ₱ 91,354.11 | ₱ 43,492.01 | ₱ 174,107.33 |
| ITEM 902 | REINFORCING STEEL | ₱ 1,574,397.07 | ₱ 3,776,890.72 | ₱ 585,352.76 | ₱ 5,936,640.55 |
| ITEM 903 | FORMWORKS AND FALSEWORKS | ₱ 16,559.36 | ₱ 179,782.95 | ₱ 111,452.50 | ₱ 307,794.82 |
| ITEM 1000 | TERMITE CONTROL WORKS | ₱ 37,915.91 | ₱ 94,776.12 | ₱ 3,794.32 | ₱ 136,486.35 |
| ITEM 1001 | STORM DRAINAGE AND SEWERAGE | ₱ 54,131.44 | ₱ 135,308.12 | ₱ 15,448.57 | ₱ 204,888.13 |
| ITEM 1002 | PLUMBING WORKS | ₱ 54,468.63 | ₱ 143,121.03 | ₱ 339,047.13 | ₱ 536,636.79 |
| ITEM 1003 | CARPENTRY AND JOINERY WORKS | ₱ 221,285.36 | ₱ 553,133.75 | ₱ 22,144.47 | ₱ 796,563.58 |
| ITEM 1006 | STEEL DOORS AND FRAMES | ₱ 119,002.41 | ₱ 297,506.02 | ₱ 38,046.22 | ₱ 454,554.65 |
| ITEM 1007 | ALUMINUM FRAMED GLASS DOORS | ₱ 119,002.41 | ₱ 297,506.02 | ₱ 38,046.22 | ₱ 454,554.65 |
| ITEM 1008 | ALUMINUM GLASS WINDOWS | ₱ 189,688.99 | ₱ 446,247.21 | ₱ 10,143.45 | ₱ 646,079.65 |
| ITEM 1010 | WOODEN DOORS AND WINDOWS | ₱ 80,460.31 | ₱ 216,770.23 | ₱ - | ₱ 297,230.54 |
| ITEM 1012 | GLASS AND GLAZING | ₱ 113,923.97 | ₱ 284,768.92 | ₱ 11,400.60 | ₱ 410,093.49 |
| ITEM 1013 | CORRUGATED METAL ROOFING | ₱ 15,113.49 | ₱ 37,778.28 | ₱ 1,512.44 | ₱ 54,404.20 |
| ITEM 1014 | PREPAINTED METAL SHEETS | ₱ 120,435.99 | ₱ 243,428.05 | ₱ 12,028.56 | ₱ 375,892.60 |
| ITEM 1016 | WATERPROOFING | ₱ 123,046.12 | ₱ 269,946.92 | ₱ - | ₱ 392,993.04 |
| ITEM 1018 | CERAMIC/GRANITE TILES | ₱ 527,120.64 | ₱ 1,104,339.53 | ₱ 44,066.35 | ₱ 1,675,526.52 |
| ITEM 1021 | CEMENT FLOOR FINISH | ₱ 66,609.73 | ₱ 139,550.13 | ₱ 5,568.45 | ₱ 211,728.31 |
| ITEM 1027 | CEMENT PLASTER FINISH/DECORATIVE STONE | ₱ 779,033.30 | ₱ 1,388,960.44 | ₱ 33,909.31 | ₱ 2,201,903.05 |
| ITEM 1032 | PAINTING, VARNISHING, AND OTHER RELATED WORKS | ₱ 183,281.33 | ₱ 458,137.35 | ₱ 18,341.33 | ₱ 659,760.01 |
| ITEM 1033 | METAL DECK | ₱ 242,160.05 | ₱ 663,217.37 | ₱ 41,670.09 | ₱ 947,047.51 |
| ITEM 1038 | REFLECTIVE INSULATION | ₱ 34,999.71 | ₱ 84,306.31 | ₱ 3,499.97 | ₱ 122,805.99 |
| ITEM 1039 | ALUMINUM CLADDING | ₱ 263,969.78 | ₱ 635,842.99 | ₱ 26,396.98 | ₱ 926,209.75 |
| ITEM 1043 | PVC DOORS AND FRAMES | ₱ 19,404.10 | ₱ 44,697.51 | ₱ 3,982.95 | ₱ 68,084.56 |
| ITEM 1045 | ALUMINUM PANEL | ₱ 116,963.29 | ₱ 281,737.88 | ₱ 11,696.33 | ₱ 410,397.50 |
| ITEM 1046 | MASONRY WORKS | ₱ 165,184.80 | ₱ 412,962.00 | ₱ 6,371.25 | ₱ 584,518.04 |
| ITEM 1047 | METAL STRUCTURES | ₱ 318,462.94 | ₱ 698,626.96 | ₱ 761,039.30 | ₱ 1,778,129.20 |
| ITEM 1051 | RAILINGS | ₱ 91,079.34 | ₱ 227,698.35 | ₱ 142,617.14 | ₱ 461,394.83 |
| ITEM 1100 | CONDUITS, BOXES, & FITTINGS (CONDUIT WORKS/CONDUIT ROUGH-IN) | ₱ 38,408.19 | ₱ 63,877.27 | ₱ - | ₱ 102,285.45 |
| ITEM 1101 | WIRES AND WIRING DEVICES | ₱ 119,639.68 | ₱ 478,558.72 | ₱ - | ₱ 598,198.40 |
| ITEM 1102 | POWER LOAD CENTER, SWITCHGEAR AND PANELBOARDS, AND OTHER OVERCURRENT PROTECTION DEVICES | ₱ 133,351.76 | ₱ 1,200,165.84 | ₱ - | ₱ 1,333,517.60 |
| ITEM 1103 | LIGHTING FIXTURES AND LAMPS | ₱ 63,575.59 | ₱ 466,221.02 | ₱ - | ₱ 529,796.61 |
| ITEM 1104 | AUXILIARY SYSTEM | ₱ 67,132.88 | ₱ 355,790.94 | ₱ 21,370.56 | ₱ 444,294.38 |
| ITEM 1106 | CCTV SYSTEM | ₱ 60,333.05 | ₱ 252,183.70 | ₱ 12,378.51 | ₱ 324,895.26 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ITEM 1201 | WATER PUMPING SYSTEM | ₱ | 31,626.66 | ₱ | 70,658.79 | ₱ | - | ₱ 102,285.45 |
| ITEM 1209 | FIRE ALARM SYSTEM | ₱ | 49,492.80 | ₱ | 218,850.57 | ₱ | 4,946.55 | ₱ 273,289.92 |
| ITEM 1705 | FILL AND BACKFILL | ₱ | 102,916.01 | ₱ | 185,678.97 | ₱ | 507,968.59 | ₱ 796,563.58 |
| | | | | | | | | ₱ **34,200,892.86** |

## SUMMARY

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|---|---|---|
| A | TOTAL MATERIAL COST | ₱ 20,394,342.47 |
| B | TOTAL LABOR COST | ₱ 7,919,212.44 |
| C | TOTAL EQUIPMENT COST | ₱ 5,887,337.95 |
| D | CONTINGENCIES | ₱ 4,104,107.14 |
| E | CONTRACTOR'S PROFIT | ₱ 2,736,071.43 |
| F | MOBILIZATION/DEMOBILIZATION | ₱ 470,000.00 |
| G | VAT | ₱ 4,924,928.57 |
| 1.2% ADMIN COST | | ₱ 564,000.00 |
| **TOTAL PROJECT COST** | | ₱ **47,000,000.00** |

Estimated by:

**Engr. Jan Carl Lemm R. Tuazon**
Engineer I

Recommeding Approval By:

**Arch. Joseph Andrew L. Sahial, Uap**
Director-PPES/University Architect

Approved by:

**Ma. Carla A. Ochotorena, RN,Ph.D**
University President