



REPUBLIC OF THE PHILIPPINES  
**DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**  
REGIONAL OFFICE IX  
ZAMBOANGA CITY 2ND DISTRICT ENGINEERING OFFICE  
MCLL HIGH WAY, DIVISORIA, ZAMBOANGA CITY

C.Y. 2025 PROJECT

DETAILED ENGINEERING DESIGN PLAN FOR  
REPAIR/MAINTENANCE OF DPWH BUILDING, ZAMBOANGA CITY 2nd DEO BUILDING,  
MAINTENANCE AND PLANNING BUILDING (MAINTENANCE SECTION) PHASE II,  
MCLL HIGHWAY, DIVISORIA, ZAMBOANGA CITY

BRGY. DIVISORIA, ZAMBOANGA CITY

SUBMITTED:

  
**ABRAHAM M. AQUINO**

CHIEF MAINTENANCE SECTION

DATE

7/28/25

RECOMMENDED:

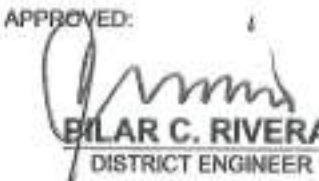
  
**ROBERTO DONDI F. STA. ELENA**

ASSISTANT DISTRICT ENGINEER

DATE

8-28-25

APPROVED:

  
**PILAR C. RIVERA**

DISTRICT ENGINEER

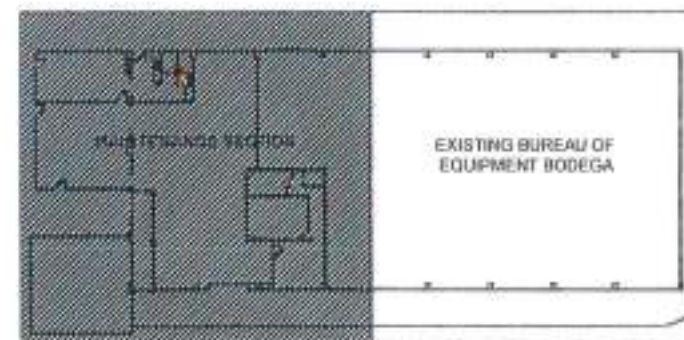
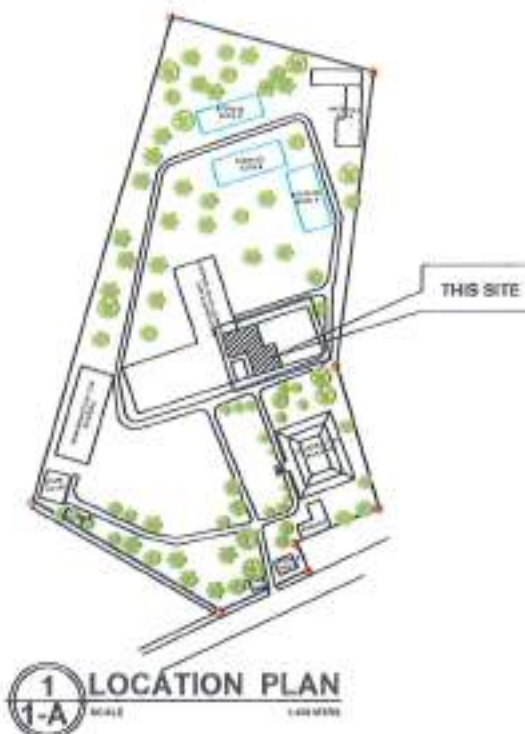
DATE

7/28/25





# P E R S P E C T I V E



## 2 SITE DEVELOPMENT PLAN

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REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
OFFICE OF THE DISTRICT ENGINEER  
DIVISORA, ZAMBOANGA CITY

#### LAND USE AND ZONING

DATE:

#### LINE AND GRADE

DATE:

#### ARCHITECTURAL

DATE:

#### STRUCTURAL

DATE:

#### SANITARY

DATE:

#### ELECTRICAL

DATE:

#### MECHANICAL



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE IX  
ZAMBOANGA CITY 2ND DISTRICT  
ENGINEERING OFFICE  
MILL HIGHWAY, DIVISORA, ZAMBOANGA CITY

PROJECT NAME AND LOCATION:  
C.V. 2019 PROJECT  
DETAILED ENGINEERING DESIGN PLAN FOR  
REPAIR/MAINTENANCE OF OPEN BUILDING, ZAMBOANGA CITY 2ND  
DISTRICT, MAINTENANCE AND PLAYING BUILDING  
(MAINTENANCE SECTION) PHASE II, MILL HIGHWAY, DIVISORA,  
ZAMBOANGA CITY

SHEET CONTENTS:  
PERSPECTIVE  
LOCATION MAP  
VICINITY MAP

DRAFTED:  
09/28/2018 JAY WILSON, S. BADAAN  
DESIGNATIVE NO. 1  
PREPARED:  
07-21-25 JHON RICK V. SANCHEZ  
DESIGNATIVE NO. 1

REVIEWED BY DESIGNED CONCEPT:  
07-24-2025 SHIRLEY P. ARANETA  
DESIGNATIVE NO. 1  
DATE: 07-24-2025

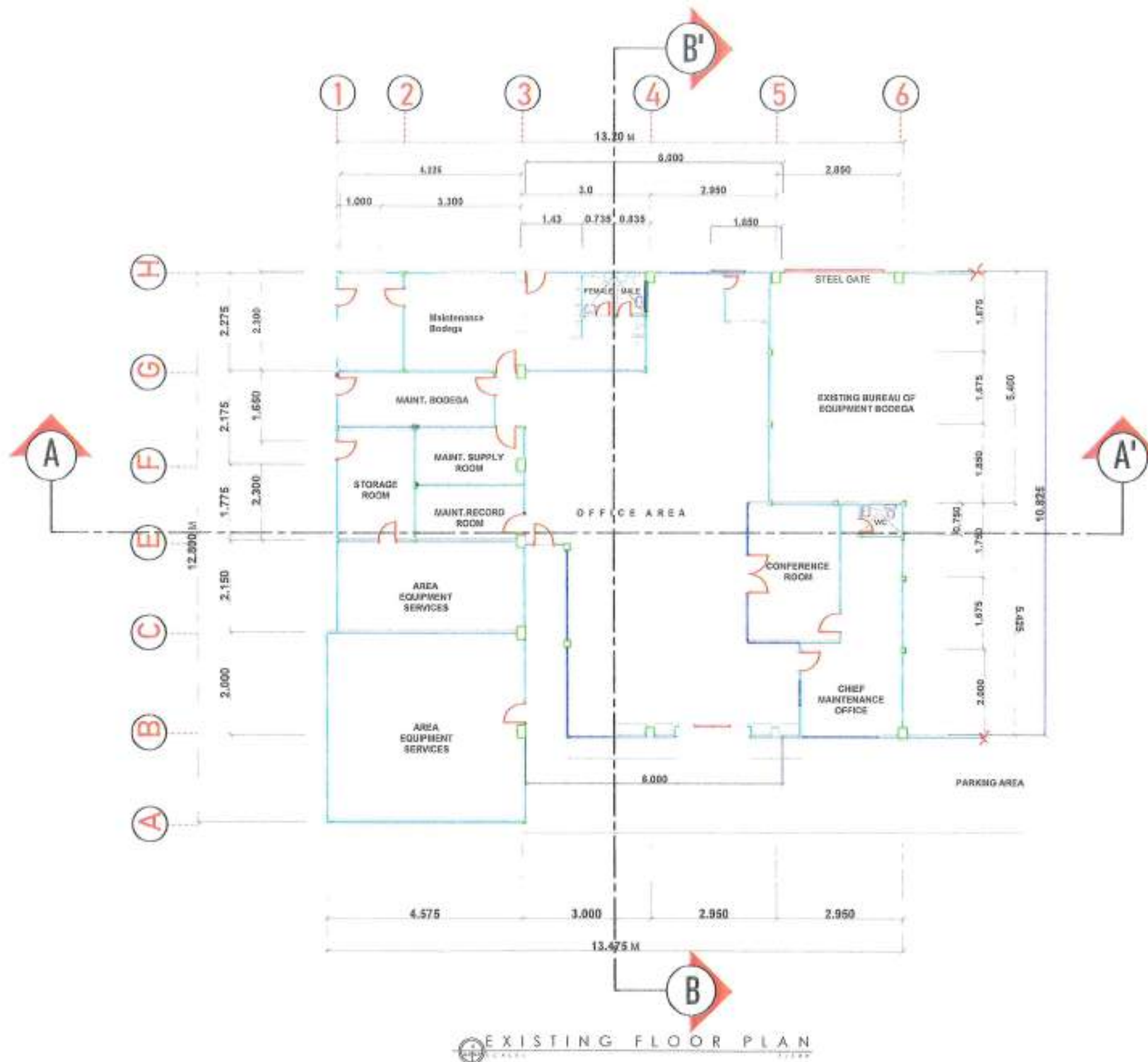
SUBMITTED:  
ABRAHAM M. AGUIÑO  
CHIEF ENGINEER  
DATE: 7/28/25

RECOMMENDED:  
ROBERTO GONDI F. STA. ELENA  
ASSISTANT DISTRICT ENGINEER  
DATE: 7-28-25

APPROVED:  
PILAR C. RIVERA  
DISTRICT ENGINEER  
DATE: 7-28-25

REV. NO. SHEET NO.  
A 01  
1 17





## SCOPE OF WORKS:

| ITEM NO.  | DESCRIPTION                                                                               | QUANTITY | UNIT |
|-----------|-------------------------------------------------------------------------------------------|----------|------|
| PART II   | OTHER GENERAL REQUIREMENTS                                                                |          |      |
| B.4(10)   | MISCELLANEOUS AND STAKING                                                                 | 1.00     | LS   |
| B.5(1)    | PROJECT BILLBOARD/SIGN BOARD                                                              | 2.00     | EA   |
| B.7(1)    | OCCUPATIONAL SAFETY AND HEALTH (PPE AND SAFETY PERSONAL INCLUDING SIGNAGES AND BARRICADES | 1.00     | LS   |
| B.9(1)    | MOBILIZATION/DEMOLITION                                                                   | 1.00     | LS   |
| PART A.   | EARTHWORKS                                                                                |          |      |
| 801(1)    | REMOVAL OF STRUCTURE AND OBSTRUCTION                                                      | 1.00     | LS   |
| PART B.   | PLAIN AND REINFORCED CONCRETE WORKS                                                       |          |      |
| 900(1)C   | STRUCTURAL CONCRETE, 300psi, CLASS A, 28 days                                             | 0.12     | CUM  |
| 902(1)a1  | REINFORCING STEEL (DEFORMED), GRADE 40                                                    | 17.05    | Kg   |
| PART C.   | FINISHING WORKS                                                                           |          |      |
| 1046(2)a1 | CHR NON-LOAD BEARING (INCLUDING REINFORCING STEEL), 100 mm                                | 6.56     | Sq.m |
| 1008(1)d  | ALUMINUM GLASS AND WINDOWS, FIXED TYPE (ANALOG)                                           |          |      |
| 1005(1)   | RESIDENTIAL CASEMENT                                                                      | 5.75     | Sq.m |
| 1021(1)c  | FLOOR FINISHES                                                                            | 1.00     | LS   |
| 1027(1)   | CEMENT PLASTER FINISH                                                                     | 180.79   | Sq.m |
| 1014(1)b2 | PREPAINTED METAL SHEETS, ABOVE 0.427 mm, R18 TYPE, LONG SPAN                              | 215.30   | Sq.m |
| PART D.   | PLUMBING/SANITARY WORKS                                                                   |          |      |
| 1001(8)   | SEWER LINE WORKS                                                                          | 1.00     | LS   |
| 1002(4)   | PLUMBING FIXTURES                                                                         | 1.00     | LS   |
| PART E.   | ELECTRICAL WORKS                                                                          |          |      |
| 1101(33)  | WIRES AND WIRING DEVICES                                                                  | 1.00     | LS   |
| 1103(1)   | LIGHTING FIXTURES                                                                         | 1.00     | LS   |



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE IX  
ZAMBOANGA CITY 2ND DISTRICT  
ENGINEERING OFFICE  
MOL. HIGHWAY, DIVISORA, ZAMBOANGA CITY

PROJECT NAME AND LOCATION:  
CITY 30th PROJECT  
DETAILED DESIGN AND DESIGN PLAN FOR  
REPAIR/MAINTENANCE OF OPEN BUILDING, ZAMBOANGA CITY 2ND  
DISTRICT BUILDING, MAINTENANCE AND PLANNED BUILDING  
(MAINTENANCE SECTION) PHASE II, MOL. HIGHWAY, DIVISORA,  
ZAMBOANGA CITY

SHEET CONTENTS:  
EXISTING FLOOR PLAN

DRAWN BY:  
JAY M. L. SAGAN  
CHECKED BY:  
JHON ROY V. SANCHEZ  
DATE: 07-28-2025

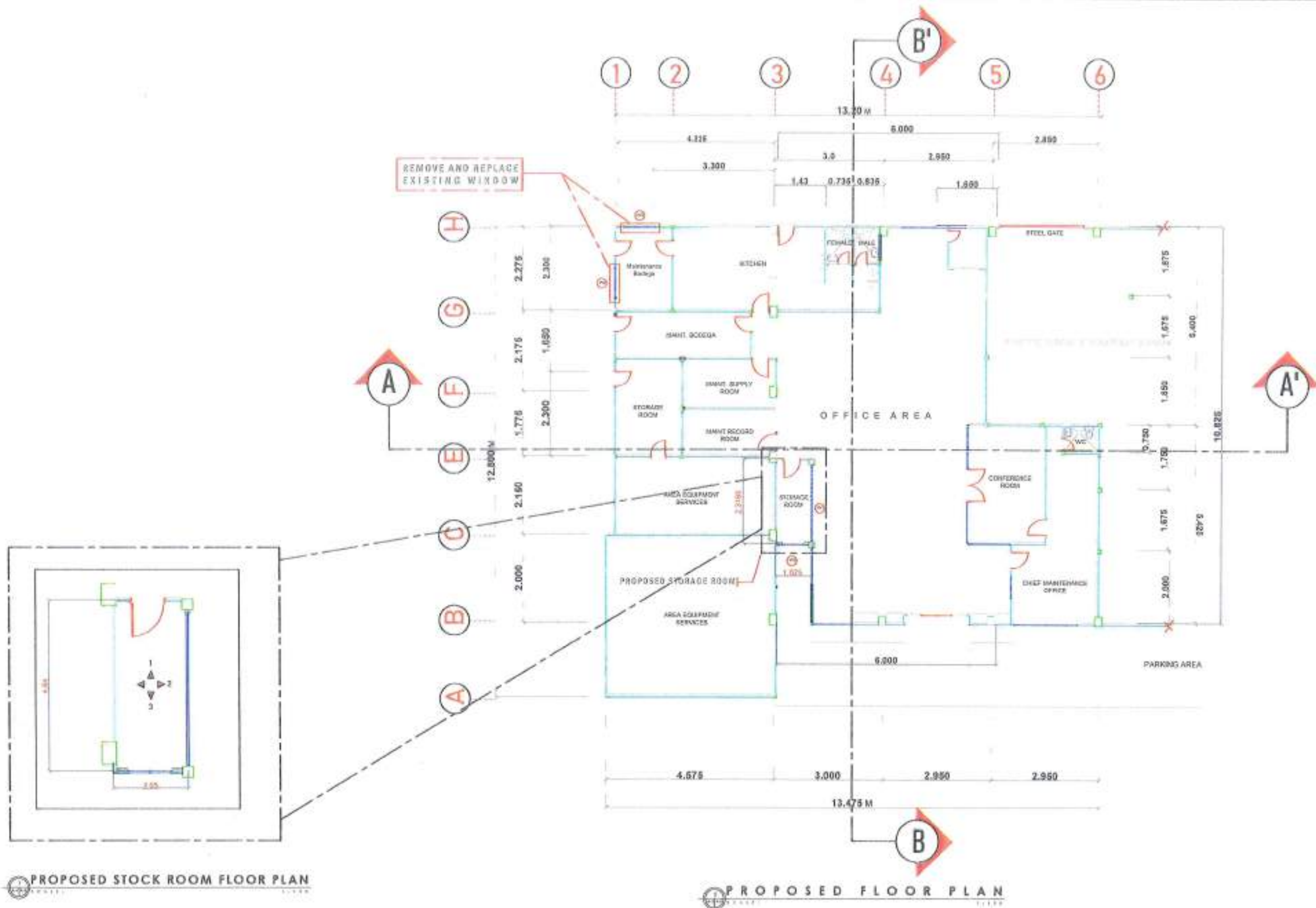
REVIEWED AS TO DESIGN CONCEPT:  
RIZELIE P. ARANETA  
DATE: 07-28-2025

QUANTIFIED:  
ABRAHAM M. AQUINO  
DATE: 7/28/25

RECOMMENDED:  
ROBERTO DOMIN F. STA. ELENA  
DATE: 7-28-25

APPROVED:  
PILAR C. RIVERA  
DISTRICT ENGINEER  
DATE: 7-28-25

REV. NO. 02  
SHEET NO. 17



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE IX  
ZAMBOANGA CITY 2ND DISTRICT  
ENGINEERING OFFICE  
MOL. HIGHWAY, DIVISORA, ZAMBOANGA CITY

PROJECT NAME AND LOCATION  
C.V. 3815 PROJECT  
DETAILED ENGINEERING DESIGN PLAN FOR  
REPAIR/MAINTENANCE OF DPWH BUILDING, ZAMBOANGA CITY AND  
OLD BUILDING MAINTENANCE AND PLANNING BUILDING  
(MAINTENANCE SECTION) PHASE 2, MOL. HIGHWAY, DIVISORA,  
ZAMBOANGA CITY

SHEET CONTENTS  
PROPOSED FLOOR PLAN  
SCOPE OF WORK

DRAWN BY:  
JAYMANTHE SADAN  
DATE: 07-25-2024  
CHECKED BY:  
JOHN ROY V. SANSON  
DATE: 07-25-2024

REVIEWED AND DESIGNED CONCEPT:  
RHEZELLE P. ARANETA  
DATE: 07-18-2024

QUANTIFIED:  
ABRAHAM M. AQUINO  
DATE: 7/24/24

RECOMMENDED:  
ROBERTO DOMESTICO - STA. ELENA  
DATE: 7-25-24

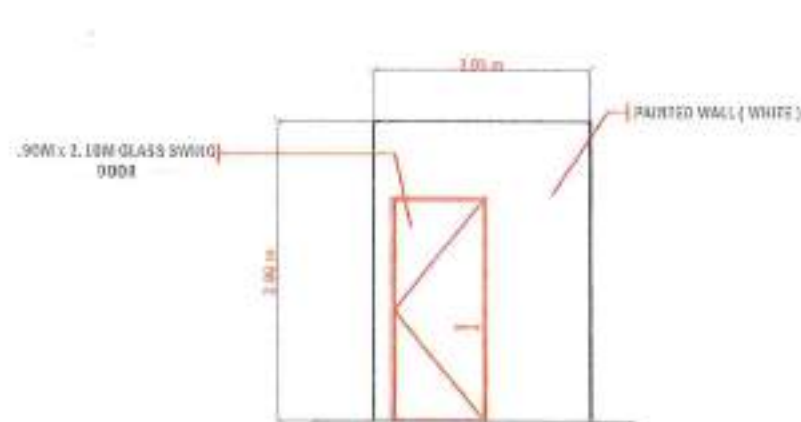
APPROVED:  
PEARL C. RIVERA  
DATE: 7-25-24

REVISION  
3/08  
SHEET NO.  
03/17

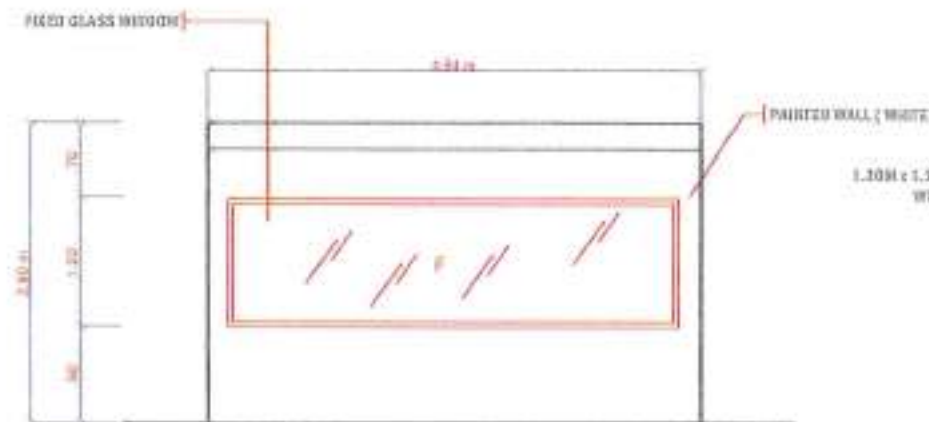


|  |                    |                               |                               |
|--|--------------------|-------------------------------|-------------------------------|
|  |                    |                               |                               |
|  | W1                 | W2                            | W3                            |
|  | FIXED GLASS WINDOW | 1.80m x 1.20m CASEMENT WINDOW | 1.20m x 1.20m CASEMENT WINDOW |
|  | 1                  | 2                             | 1                             |
|  | OFFICE AREA        | STORAGE ROOM                  | STORAGE ROOM                  |

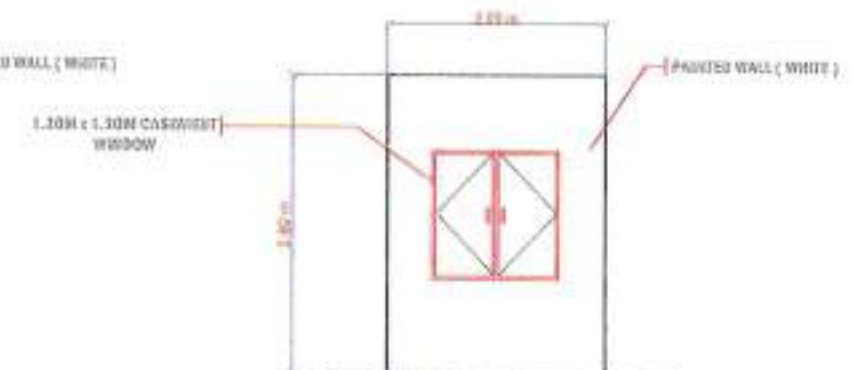
**SCHEDULE OF DOORS AND WINDOWS**  
SCALE: 1:100



**ELEVATION ( 1 )**  
SCALE: 1:100



**ELEVATION ( 2 )**  
SCALE: 1:100



**ELEVATION ( 3 )**  
SCALE: 1:100

## INTERIOR ELEVATION



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE IX  
ZAMBOANGA CITY 2ND DISTRICT  
ENGINEERING OFFICE  
MCL HIGHWAY, DIVISORA, ZAMBOANGA CITY

PROJECT NAME AND LOCATION:  
C.V. 20th PROJECT  
OCTOBER ENGINEERING DESIGN PLAN FOR  
REPAIR/MAINTENANCE OF OPEN BUILDING, ZAMBOANGA CITY 2ND  
DISTRICT, MAINTENANCE AND PLANNING BUILDING  
PAINTING/MAINTENANCE SECTION, PHASE 1, MCL HIGHWAY, DIVISORA,  
ZAMBOANGA CITY

SHEET CONTENTS:  
DOOR SCHEDULE  
WINDOW SCHEDULE  
PROPOSED STOCK ROOM LAM

DESIGNED BY:  
JAY MARQUEZ SAGAN  
ENGINEER  
DATE: 07/28/2025  
CHECKED BY:  
JOHN RYAN V. SANCHEZ  
ENGINEER

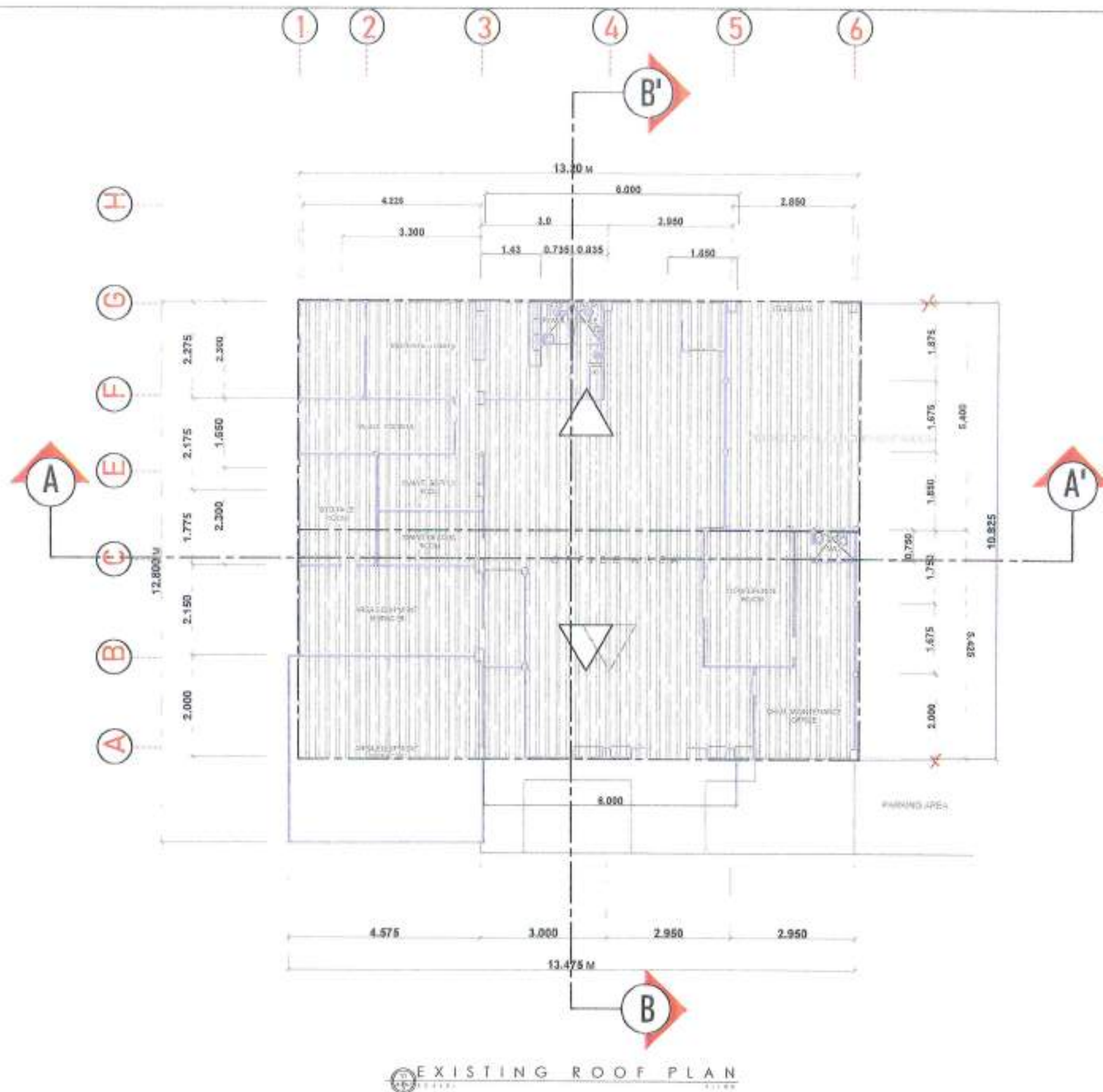
REVIEWED AS TO DESIGNED CONCEPT:  
RHIZELLE P. ARANETA  
ENGINEER  
DATE: 07-28-2025

SUBMITTED BY:  
ABRAHAM M. AQUINO  
DIRECTOR, MAINTENANCE SECTION  
DATE: 7/28/25

RECOMMENDED BY:  
ROBERTO BORDO F. STA. ELENA  
ASSISTANT DISTRICT ENGINEER  
DATE: 7-28-25

APPROVED BY:  
PILAR C. RIVERA  
DISTRICT ENGINEER  
DATE: 7-28-25

|         |           |
|---------|-----------|
| SET NO. | SHEET NO. |
| A       | 04        |
| 4       | 17        |



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE IX  
ZAMBOANGA CITY 2ND DISTRICT  
ENGINEERING OFFICE  
MOLLE HIGHTWAY, DIVISORA, ZAMBOANGA CITY

PROJECT NAME AND LOCATION:  
CIR. 3001 PROJECT  
DETAILED ENGINEERING DESIGN PLAN FOR  
REPAIR/MAINTENANCE OF DPWH BUILDINGS, ZAMBOANGA CITY AND  
DAG BULLENS, KALAMINAGAN, AND PLASID REAR DASH  
QUANTIFICATION SECTION PHASE II, MALL HIGHWAY, DIVISORA,  
ZAMBOANGA CITY

SHEET CONTENTS:  
EXISTING ROOF PLAN

DRAWN BY: JAY M. C. SARAN  
CHECKED BY: JHON ROY V. SANCHEZ  
DATE: 07-18-25

FORWARDED AS TO DESIGNED OR COPY:  
RIMZELLE P. ARANETA  
DATE: 07-18-2025

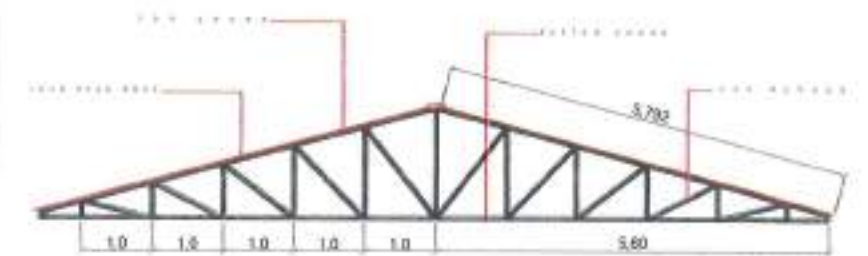
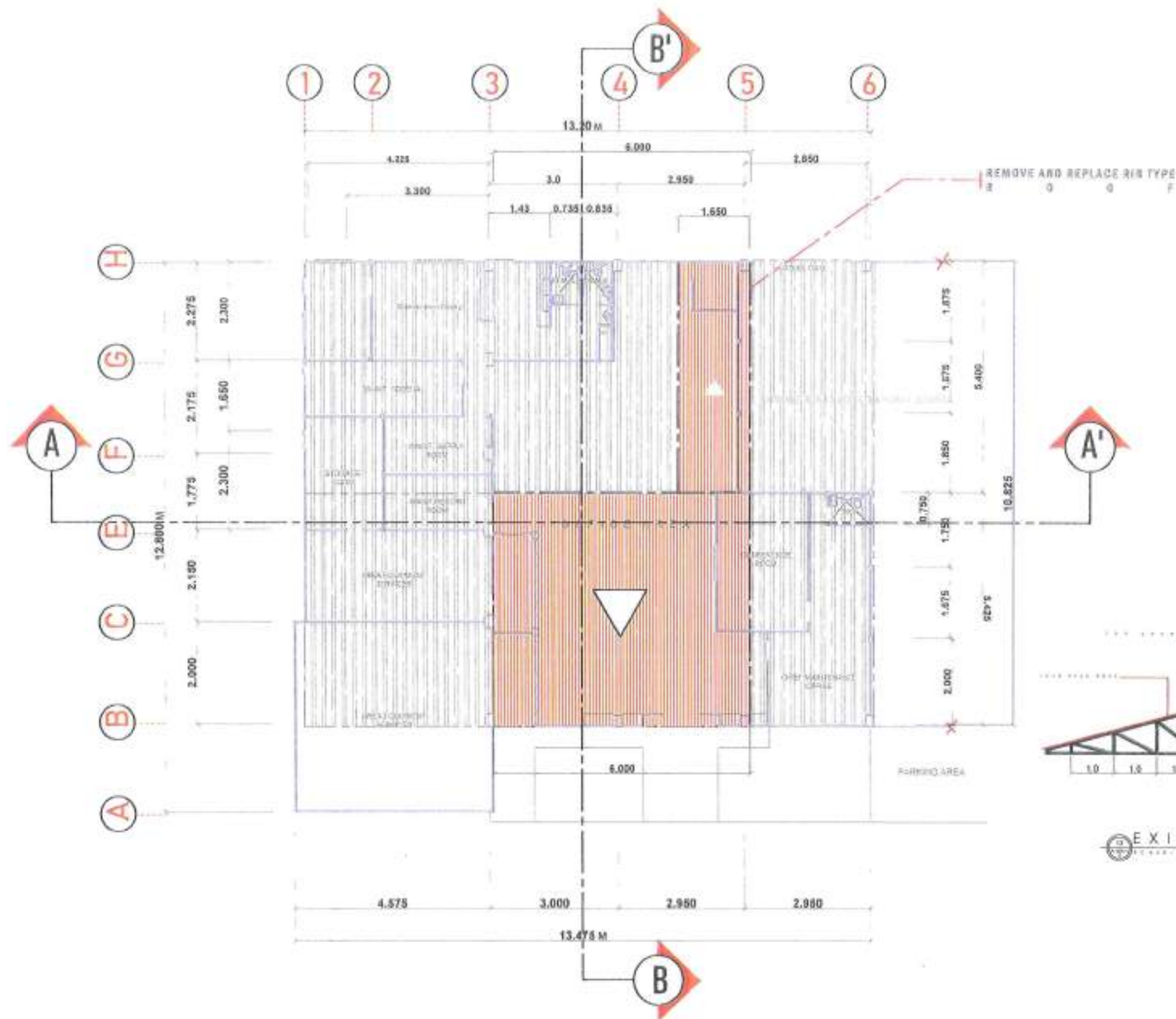
SUBMITTED BY: ABRAHAM M. AGUIÑO  
DATE: 7/28/25

RECOMMENDED BY: ROBERTO DOMESTICO, STA. ELENA  
DATE: 7-28-25

APPROVED BY: PILAR C. RIVERA  
DATE: 7-28-25

SET NO. 05  
SHEET NO. 17





EXISTING TRUSS DETAIL

PROPOSED ROOFING PLAN



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE IX  
ZAMBOANGA CITY 2ND DISTRICT  
ENGINEERING OFFICE  
MOLLO HIGHWAY, DAVAO DEL SUR, ZAMBOANGA CITY

PROJECT NAME AND LOCATION  
C.V. 3838 PROJECT  
DETAILED ENGINEERING DESIGN PLAN FOR  
REPAIR/MAINTENANCE OF DPWH BUILDING, ZAMBOANGA CITY 2ND  
DISTRICT (BUDGET MAINTENANCE AND PLANNING BUILDING  
(MAINTENANCE SECTION PHASE II, MOLLO HIGHWAY, DAVAO DEL SUR,  
ZAMBOANGA CITY

SHEET CONTENTS  
PROPOSED ROOF PLAN

DRAWN BY: JAY MARC C. BADAN  
CHECKED BY: JHON ROY V. SANSON  
DATE: 07-28-2025

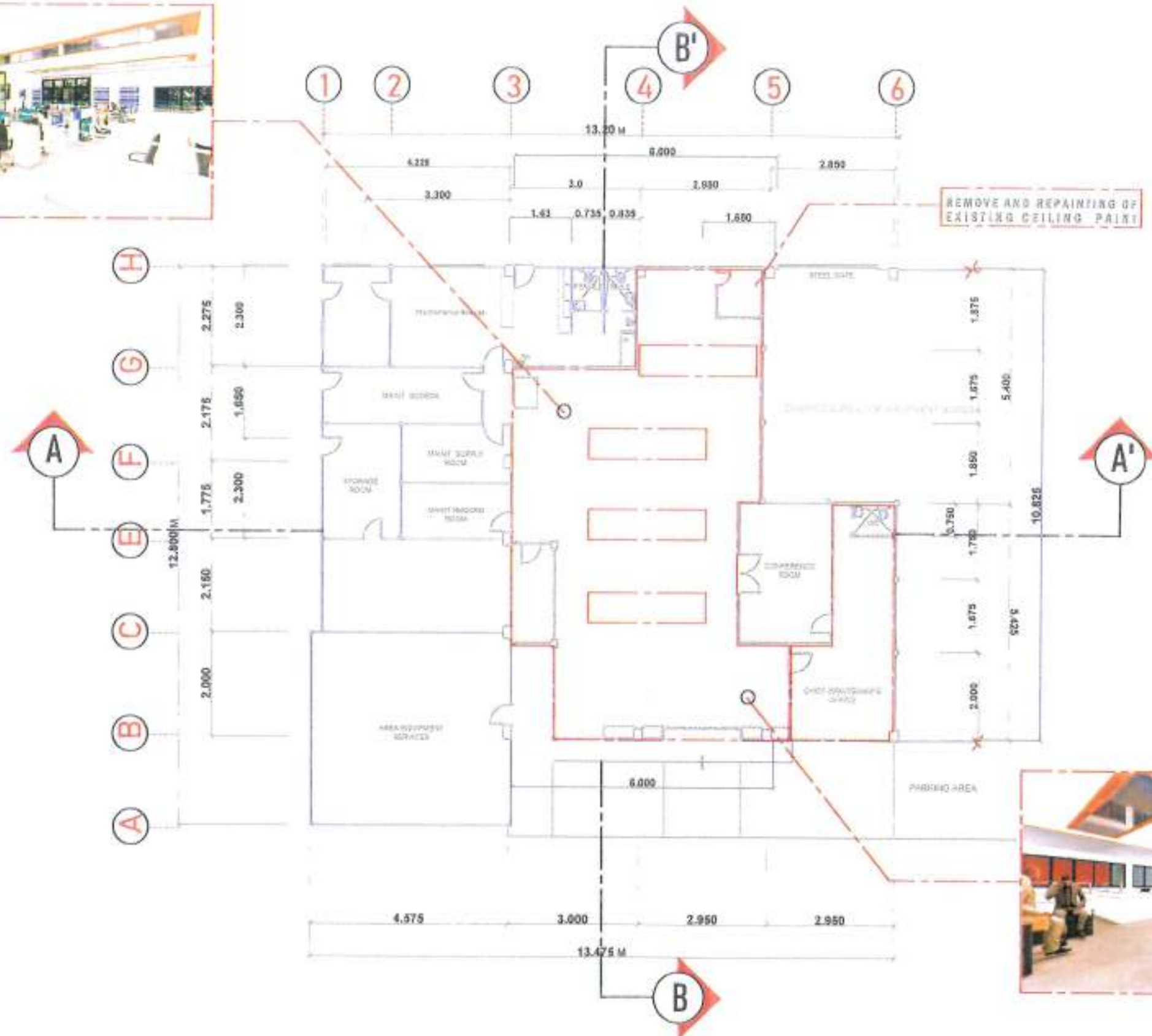
REVIEWED AS TO DESIGN CONCEPT: RHEZELLE P. ARANETA  
DATE: 07-28-2025

SUBMITTED: ABRAHAM M. AQUINO  
DATE: 7/28/25

RECEIVED BY: ROBERTO DOMESTICO P. STA. ELENA  
DATE: 7-28-25

APPROVED BY: PILAR C. RIVERA  
DATE: 7-28-25

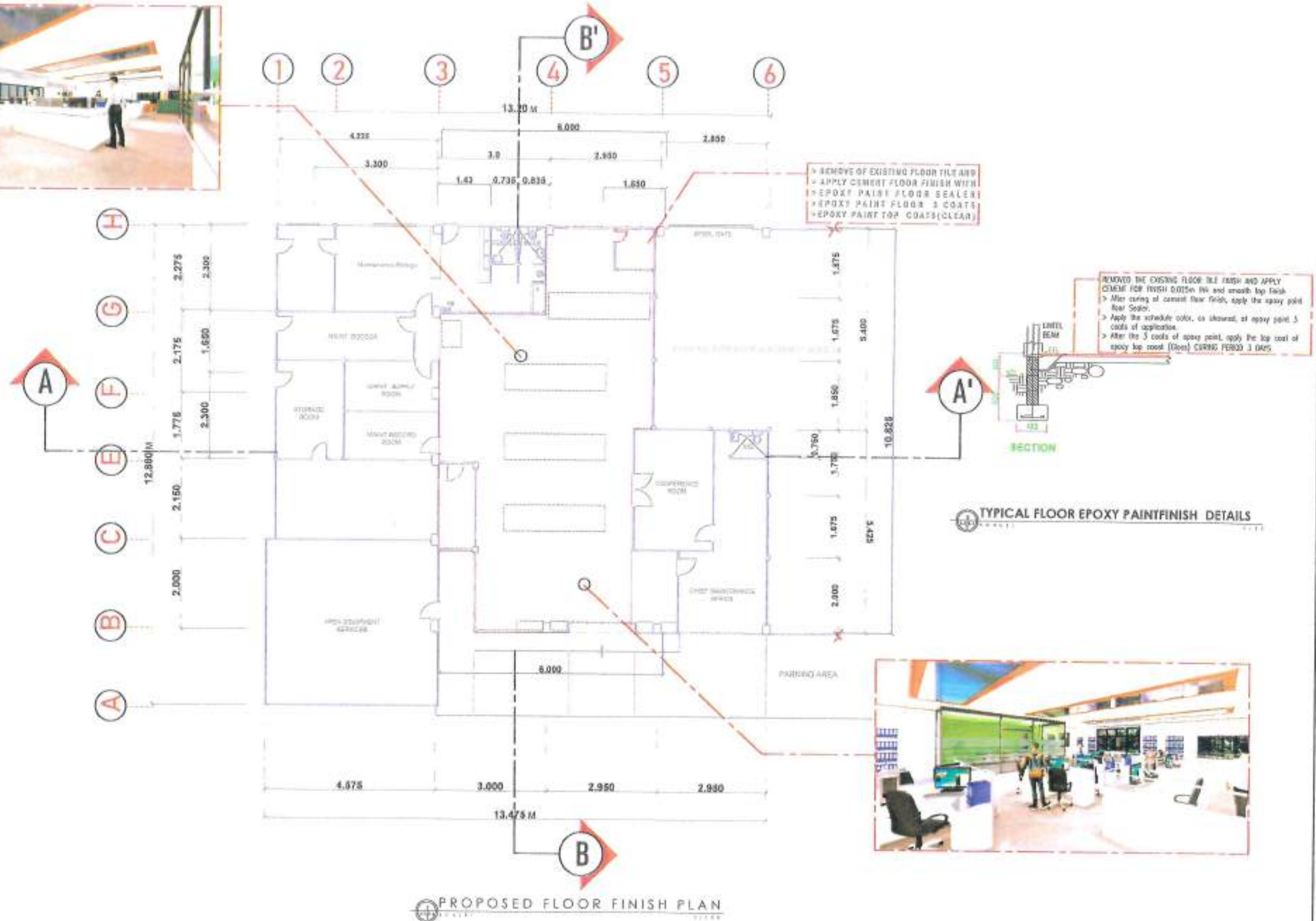
SHEET NO. 06  
SHEET NO. 17



REPAINTING OF EXISTING CEILING PLAN

|                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                      |                                                                |                                                                                                        |                                                                                                    |                                                                                 |                                                                                                           |                                                                                 |                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|
|  <p>REPUBLIC OF THE PHILIPPINES<br/>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS<br/>REGIONAL OFFICE IX<br/>ZAMBOANGA CITY 2ND DISTRICT<br/>ENGINEERING OFFICE<br/>WELL HIGHWAY, DIVISORA, ZAMBOANGA CITY</p> | <p>PROJECT NAME AND LOCATION:<br/>C.V. 300 PROJECT<br/>DETAILED ENGINEERING DESIGN PLAN FOR<br/>REPAIR AND MAINTENANCE OF CIVIL BUILDINGS, ZAMBOANGA CITY 2ND<br/>DISTRICT BUILDING, MAINTENANCE AND PLANNING BUILDING<br/>MAINTENANCE SCOTTSDRIVE, A WELL HIGHWAY, DIVISORA,<br/>ZAMBOANGA CITY</p> | <p>SHEET CONTENTS:<br/>REPAINTING OF EXISTING CEILING PLAN</p> | <p>DESIGNED BY:<br/>JAY MARCO D. SAGAN<br/>CHECKED BY:<br/>JHON ROY V. SANCHEZ<br/>DATE: 6-28-2025</p> | <p>REVIEWED BY TO DESIGNED CONCEPT:<br/>BRIELLE P. ARANETA<br/>ENGINEER II<br/>DATE: 6-28-2025</p> | <p>SUBMITTED BY:<br/>ABRAHAM M. AQUINO<br/>CHIEF ENGINEER<br/>DATE: 7-28-25</p> | <p>RECOMMENDED BY:<br/>ROBERTO BONDIE P. STA. ELENA<br/>ASSISTANT DISTRICT ENGINEER<br/>DATE: 7-28-25</p> | <p>APPROVED BY:<br/>PILAR C. RIVERA<br/>DISTRICT ENGINEER<br/>DATE: 7-28-25</p> | <p>SHEET NO.<br/>A<br/>7/08</p> <p>SHEET NO.<br/>07<br/>17</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|



 PROPOSED FLOOR FINISH PLAN

REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE IX  
ZAMBOANGA CITY 2ND DISTRICT  
ENGINEERING OFFICE  
M.C. HIGHWAY, ZAMBOANGA, ZAMBOANGA CITY

CY. 20140501

DETAILED ENGINEERING DESIGN PLAN FOR  
REPAIR/MAINTENANCE OF CPWH BUILDING, SAN JOSE CITY AND  
DED BUILDING, MAINTENANCE AND PLANNING BUILDING  
MAINTENANCE SECTION PHASE II, MCL HIGHWAY, DIVERSA,  
SAN JOSE CITY

EXISTING FLOOR FINISH PLAN  
TYPICAL FLOOR FINISH DETAILS

*[Signature]*  
JAN MARK C. BADAR  
MANAGING PARTNER

PREPARED:   
JOHN R. SARNO

2  
RUBEN P. ARANETA

DATE 6-22-2025

ABRAHAM M. AQUINO

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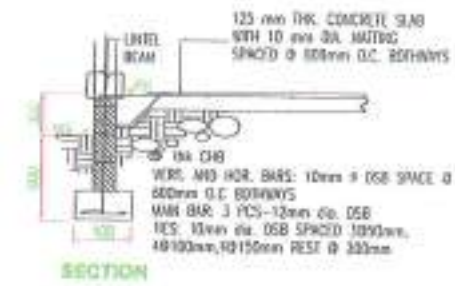
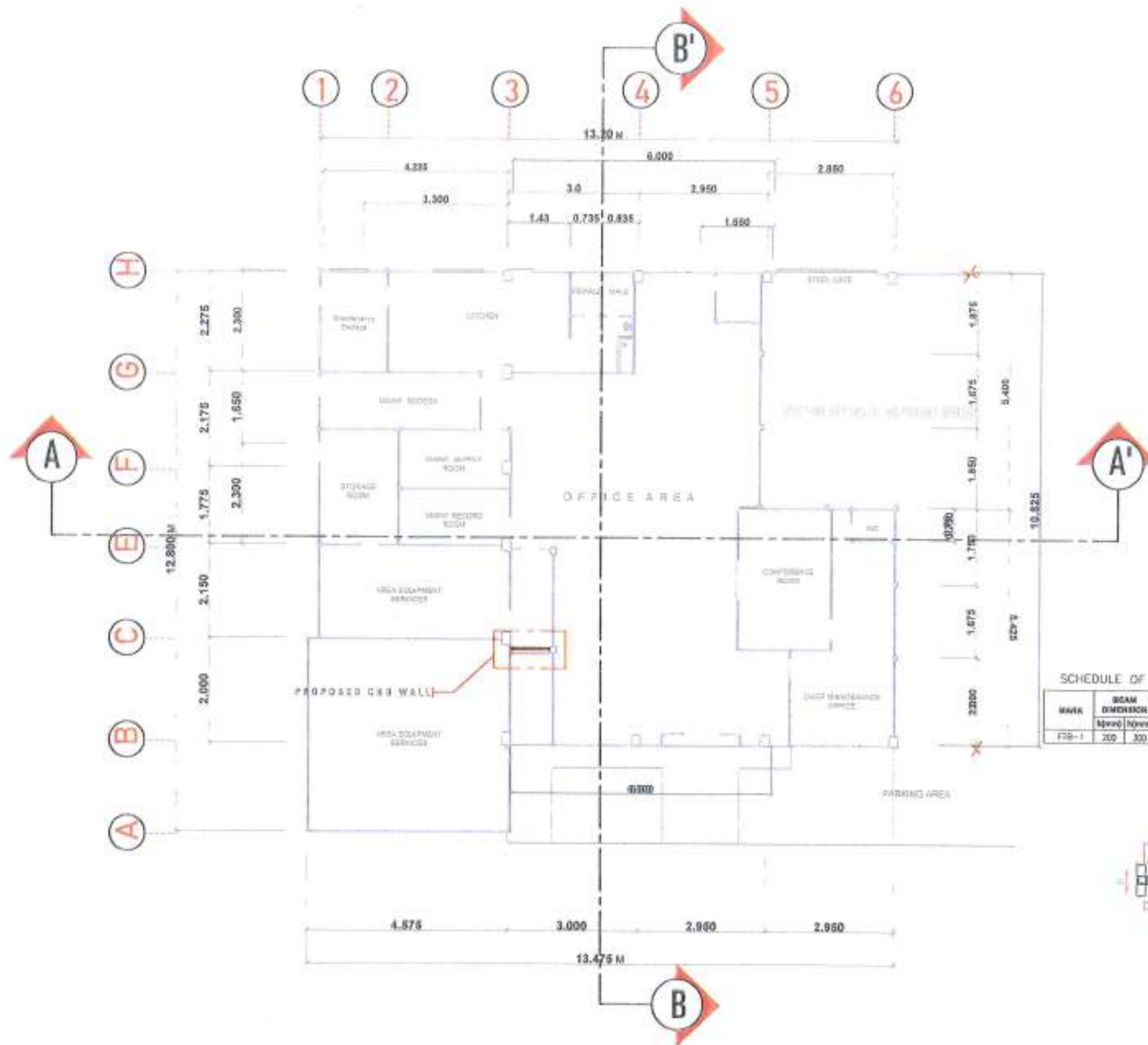
ASSISTANT District Manager

APPROVED: 

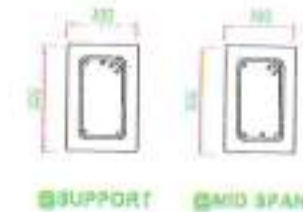
PILAR C. RIVERA  
DISTRICT ENGINEER

|         |           |
|---------|-----------|
| SET NO. | DRIFT NO. |
|         |           |

$$\begin{array}{r} \text{A} \\ 8 \overline{) 68} \\ \underline{64} \phantom{00} \\ 4 \phantom{00} \end{array}$$



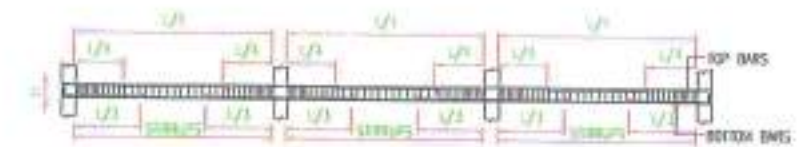
TYPICAL WALL FOOTING DETAILS



FOOTING-TIE BEAM

SCHEDULE OF BEAM

| MARK  | BEAM DIMENSION<br>(Span) (Ht) | REBAR SIZE | LONGITUDINAL BAR/REINFORCEMENT |     |        |     |        |          |     |        | SPACING @ 100mm               |
|-------|-------------------------------|------------|--------------------------------|-----|--------|-----|--------|----------|-----|--------|-------------------------------|
|       |                               |            | SUPPORT                        | TOP | BOTTOM | TOP | BOTTOM | MID SPAN | TOP | BOTTOM |                               |
| F10-1 | 200 300                       | 16mm ØL    | 2                              | 2   | -      | -   | 2      | 2        | -   | -      | 1850, 50100, 50150 REST @ 200 |



TYPICAL FOOTING-TIE BEAM SECTION DETAILS

PROPOSED FOUNDATION PLAN

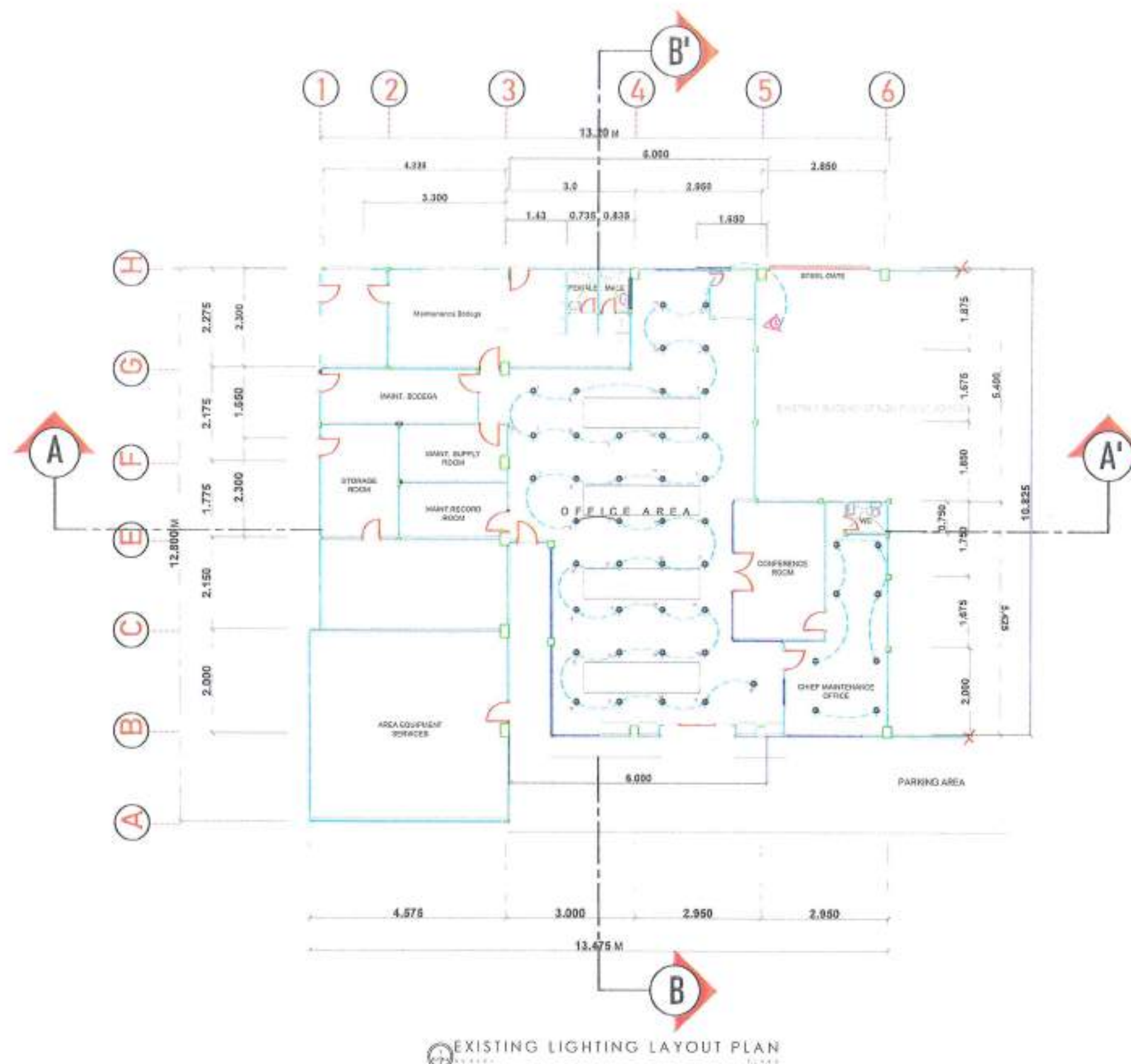
|  |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                           |                                               |                                                                                                             |                                                                          |                                                     |                                                              |                                                  |                  |                    |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|------------------|--------------------|
|  | REGIONAL OFFICE OF THE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS<br>REGIONAL OFFICE IX<br>ZAMBOANGA CITY 2ND DISTRICT<br>ENGINEERING OFFICE<br>HALL HIGHWAY, ZAMBOANGA CITY | PROJECT NAME AND LOCATION:<br>C.Y. 2023-2024<br>DETAILED ENGINEERING DESIGN PLAN FOR<br>REPAIR/RECONSTRUCTION OF CRASH BARRIER, ZAMBOANGA CITY 2ND<br>DISTRICT BUILDING, MAINTENANCE AND PLANNING BUILDING<br>(ZAMBOANGA CITY 2ND DISTRICT BUILDING, MAINTENANCE AND PLANNING BUILDING)<br>ZAMBOANGA CITY | SHEET CONTENTS:<br>PROPOSED WALL FOOTING PLAN | DRAFTED BY:<br>JAY MARK C. SADAN<br>DATE: 07/28/25<br>CHECKED BY:<br>JASON RYAN V. BARRON<br>DATE: 07/28/25 | REVIEWED AND DESIGNED CHECKED BY:<br>RHIZEL B. ARANETA<br>DATE: 07/28/25 | SUBMITTED BY:<br>ABRAHAM M. AGUIÑO<br>DATE: 7/28/25 | APPROVED BY:<br>ROBERTO GONDI F. STA. ELENA<br>DATE: 7/28/25 | APPROVED BY:<br>PILAR C. RIVERA<br>DATE: 7/28/25 | OCT NO.<br>S 101 | SHEET NO.<br>09 17 |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|------------------|--------------------|



## ELECTRICAL NOTES:

1. ALL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), CITY ORDINANCES ENFORCED BY THE BUILDING OFFICIALS, RULES AND REGULATIONS OF THE LOCAL ELECTRIC COOPERATIVE.
2. SERVICE VOLTAGE SHALL BE 230V SINGLE PHASE THREE (3) WIRE, 60Hz.
3. ALL CONVENIENCE AND POWER OUTLETS SHALL BE THREE PRONG, THREE WIRE TO SIGNIFICANTLY ADDRESS GROUNDING, AND THE WIRING INSTALLATION SHALL BE DONE IN EMT, RMC CONDUITS OR POLYMER CHLORIDE CONDUITS (PVC) POWER LINE.
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN/ THWN" UNLESS OTHERWISE INDICATED. THE MINIMUM SIZE FOR POWER AND LIGHTING SHALL BE 3.5 mm<sup>2</sup> AND 2.0 mm<sup>2</sup> RESPECTIVELY AND SHALL BE COLOR CODED AS FOLLOWS:
 

| LINE A              | RED   |
|---------------------|-------|
| NEUTRAL             | GRAY  |
| EQUIPMENT GROUNDING | GREEN |
5. ALL SERVICE ENTRANCE EQUIPMENT, SWITCHES, PANEL BOARDS AND ALL NON-CURRENT CARRYING METAL PARTS SHOULD BE PROPERLY GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE PEC.
6. THE MOUNTING HEIGHT OF ALL WIRING DEVICES SHALL BE AS FOLLOWS:
  - A. LIGHT SWITCHES 1400mm ABOVE FLOOR FINISHED;
  - B. CONVENIENCE OUTLETS 300mm ABOVE FLOOR FINISHED OR AS REQUIRED; AND
  - C. PANEL BOARDS SHALL BE INSTALLED 1800mm ABOVE FLOOR FINISHED LINE
7. ALL ELECTRICAL INSTALLATION SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED AND EXPERIENCED ELECTRICAL ENGINEER OR REGISTERED MASTER ELECTRICIAN.



EXISTING LIGHTING LAYOUT PLAN



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE IX  
ZAMBOANGA CITY 2ND DISTRICT  
ENGINEERING OFFICE  
HILL HIGHWAY, DIVISORA, ZAMBOANGA CITY

PROJECT NAME AND LOCATION  
C.V. 200 PROJECT  
DETAILED ENGINEERING DESIGN PLAN FOR  
REPAIR/MAINTENANCE OF DPWH BUILDING, ZAMBOANGA CITY 2ND  
DISTRICT BUILDING, MAINTENANCE AND PLANNING BUILDING  
(MAINTENANCE SECTION) PHASE II, HILL HIGHWAY, DIVISORA,  
ZAMBOANGA CITY

PROJECT CONTENTS:  
EXISTING LIGHTING LAY OUT  
LOCATION MAP  
ELECTRICAL NOTES

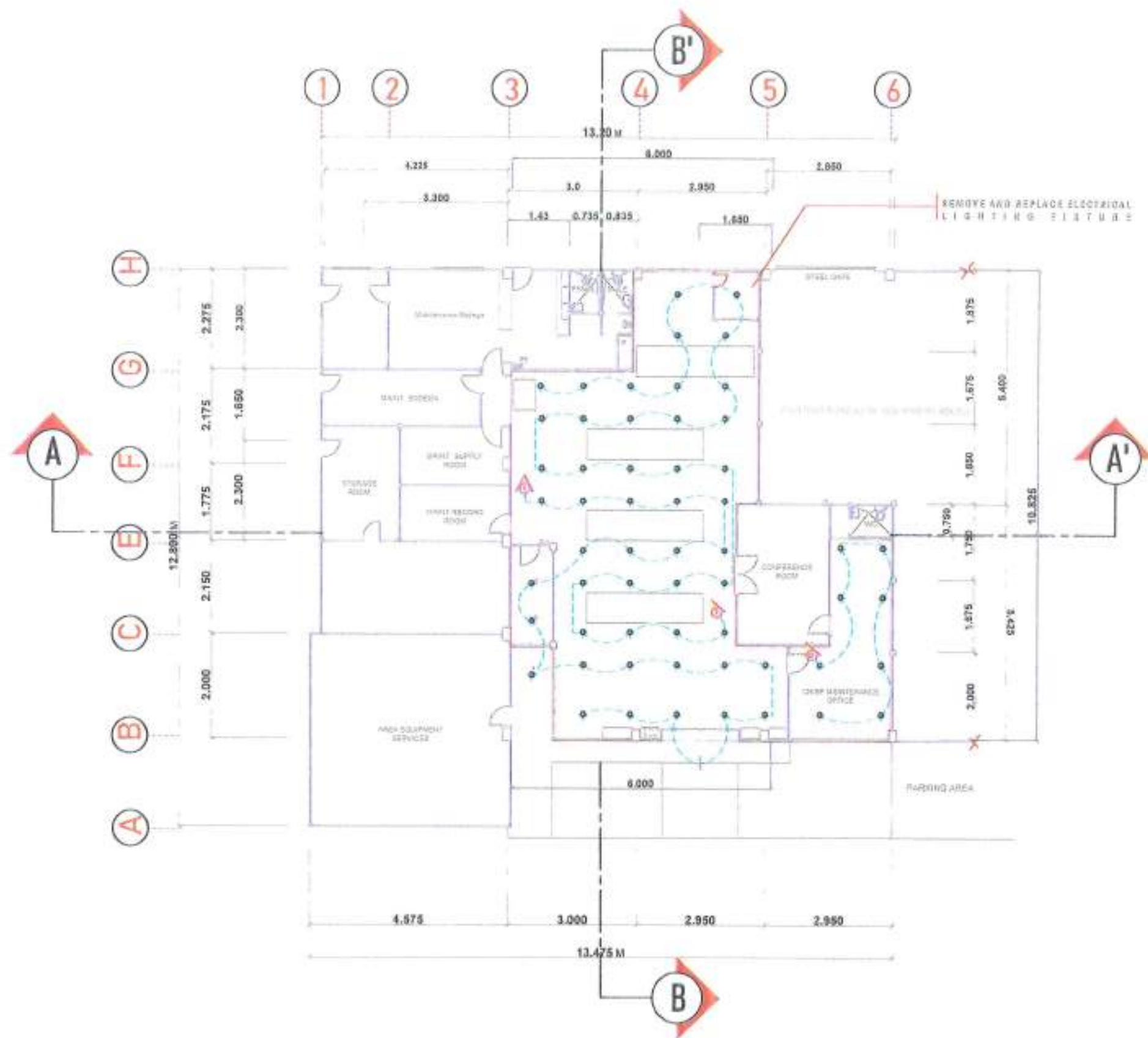
DRAWN BY:  
JAY MARK C. SUDAN  
DATE: 07/29/2005  
CHECKED BY:  
RHOZELLE P. ARANETA  
DATE: 7/28/05  
APPROVED BY:  
ABRAHAM M. AGUIRO  
DATE: 7/28/05  
SUPERVISOR  
CHIEF MAINTENANCE SECTION

APPROVED BY:  
RHOZELLE P. ARANETA  
DATE: 07-28-2005  
APPROVED BY:  
ABRAHAM M. AGUIRO  
DATE: 7/28/05  
SUPERVISOR  
CHIEF MAINTENANCE SECTION

APPROVED BY:  
ROBERTO QUONCE, BTA, ELENA  
DATE: 7-28-05  
ASSISTANT DISTRICT SUPERVISOR

APPROVED BY:  
PILAR C. RIVERA  
DATE: 7-28-05  
DISTRICT ENGINEER

EST. NO.  
104  
SHEET NO.  
10  
17



PROPOSED LIGHTING LAYOUT PLAN

LEGEND

- PINLIGHT @ 11W
- PANEL BOARD
- KW HOUR METER
- CIRCUIT LINE
- ONE GANG SWITCH
- TWO GANG SWITCH
- THREE GANG SWITCH
- CIRCUIT LINE
- SERVICE ENTRANCE



LOCATION MAP



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE III  
ZAMBOANGA CITY 2ND DISTRICT  
ENGINEERING OFFICE  
WILL HIGHWAY, DAVAO, ZAMBOANGA CITY

PROJECT NAME AND LOCATION  
C.Y. 2025 PROJECT  
DETAILS ENGINEERING DESIGN PLAN FOR  
REPAIR/RECONSTRUCTION OF SPAN BUILDING, ZAMBOANGA CITY AND  
2ND BUILDING, MAINTENANCE AND PLANNING BUILDING  
MAINTENANCE BUILDING PHASE II, WILL HIGHWAY, DAVAO, ZAMBOANGA CITY

SHEET CONTENTS  
PROPOSED LIGHTING LAYOUT PLAN  
LEGEND  
LOCATION PLAN

DESIGNED BY  
JAY MARIC S. SARAN  
DRAWN BY  
JOHN ROY V. SANBON  
DATE  
07/13/25

REVIEWED AND APPROVED  
RHOZELLE P. ARANETA  
DATE  
07-28-2025

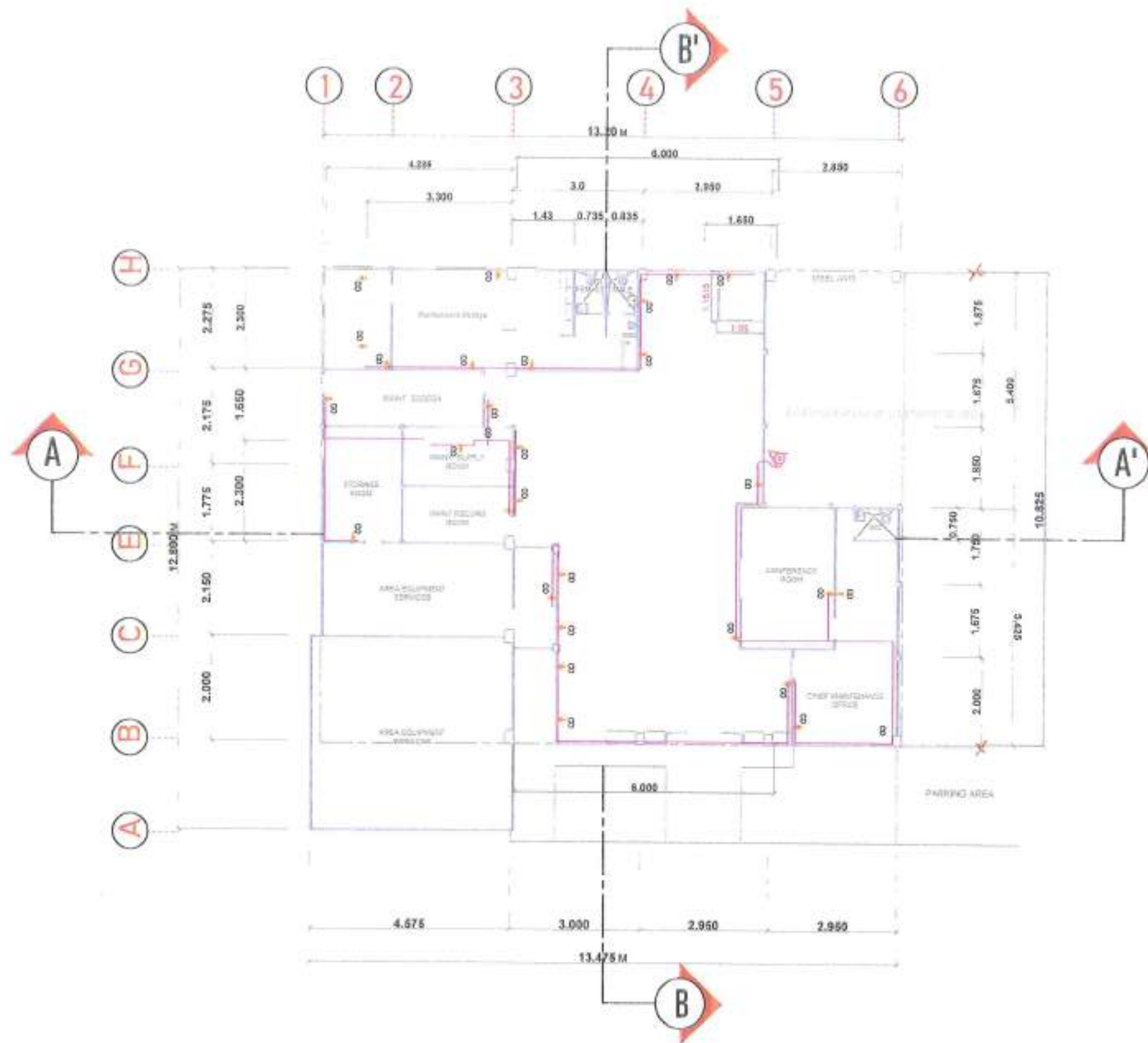
SUBMITTED BY  
ABRAHAM M. AQUINO  
DATE  
7/28/25

RECEIVED BY  
ROBERTO DOMO P. STA. ELENA  
DATE  
7-28-25

APPROVED BY  
BLAR C. RIVERA  
DATE  
7-28-25

|           |           |
|-----------|-----------|
| SET NO.   | SHEET NO. |
| E<br>2/04 | 11<br>17  |





EXISTING POWER LAYOUT PLAN



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE IX  
ZAMBOANGA CITY 2ND DISTRICT  
ENGINEERING OFFICE  
NELL HIGHWAY, DIVISORA, ZAMBOANGA CITY

PROJECT NAME AND LOCATION:  
C.V. 300 PROJECT  
DETAILED ENGINEERING DESIGN PLAN FOR  
REPAIR/MAINTENANCE OF DPWH BUILDING, ZAMBOANGA CITY 2ND  
DISTRICT, DIVISORA, MAINTENANCE AND PLANNING BUILDING  
(MAINTENANCE SECTION, PHASE II, NELL HIGHWAY, DIVISORA,  
ZAMBOANGA CITY)

EXISTING POWER LAYOUT

DRAWN BY:  
JAY MARCOS SARAHAN  
CHECKED BY:  
RONALD V. SANSON  
DATE: 07-28-2015

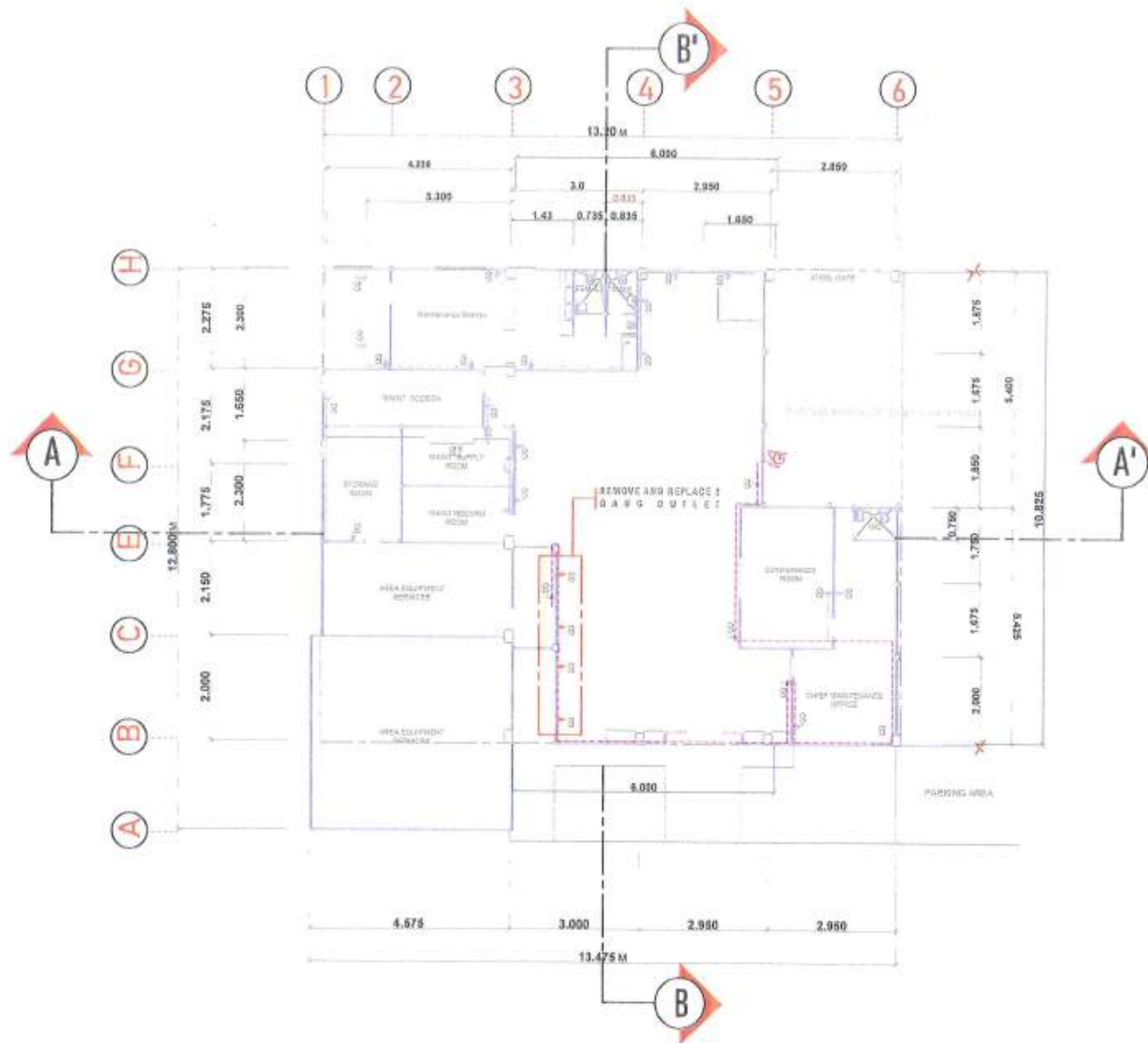
APPROVED BY:  
RIZELLE P. ARANETA  
DATE: 07-28-2015

DESIGNED BY:  
ABRAHAM M. AQUINO  
DATE: 7/28/15

REVIEWED BY:  
ROBERTO DIONISIO F. STA. ELENA  
DATE: 7-28-15

APPROVED BY:  
ALAN C. RIVERA  
DATE: 7-28-15

SHEET NO. 12  
OF 17



PROPOSED POWER LAYOUT PLAN



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE II  
ZAMBOANGA CITY 2ND DISTRICT  
ENGINEERING OFFICE  
MCL HIGHWAY, DIVISORA, ZAMBOANGA CITY

PROJECT NAME AND LOCATION  
C.V. 2025 PROJECT  
DETAILS ENGINEERING DESIGN PLAN FOR  
REPAIR/RECONSTRUCTION OF OPEN BUILDING, ZAMBOANGA CITY AND  
3RD BUILDING, MAINTENANCE AND PLUMBING (M&P)  
PHANTASIAW BICTEN PHASE 3, MCL HIGHWAY, DIVISORA,  
ZAMBOANGA CITY

SHEET CONTENTS  
PERSPECTIVE  
LOCATION MAP  
VICINITY MAP

DRAWN BY  
JAY MARCO SAGAN  
07/28/2025  
PROFESSOR  
JAY MARCO SAGAN  
07-28-25

REVIEWED AND DESIGNED BY  
RHIZELLE P. ARANETA  
07-28-2025  
DATE  
07-28-2025

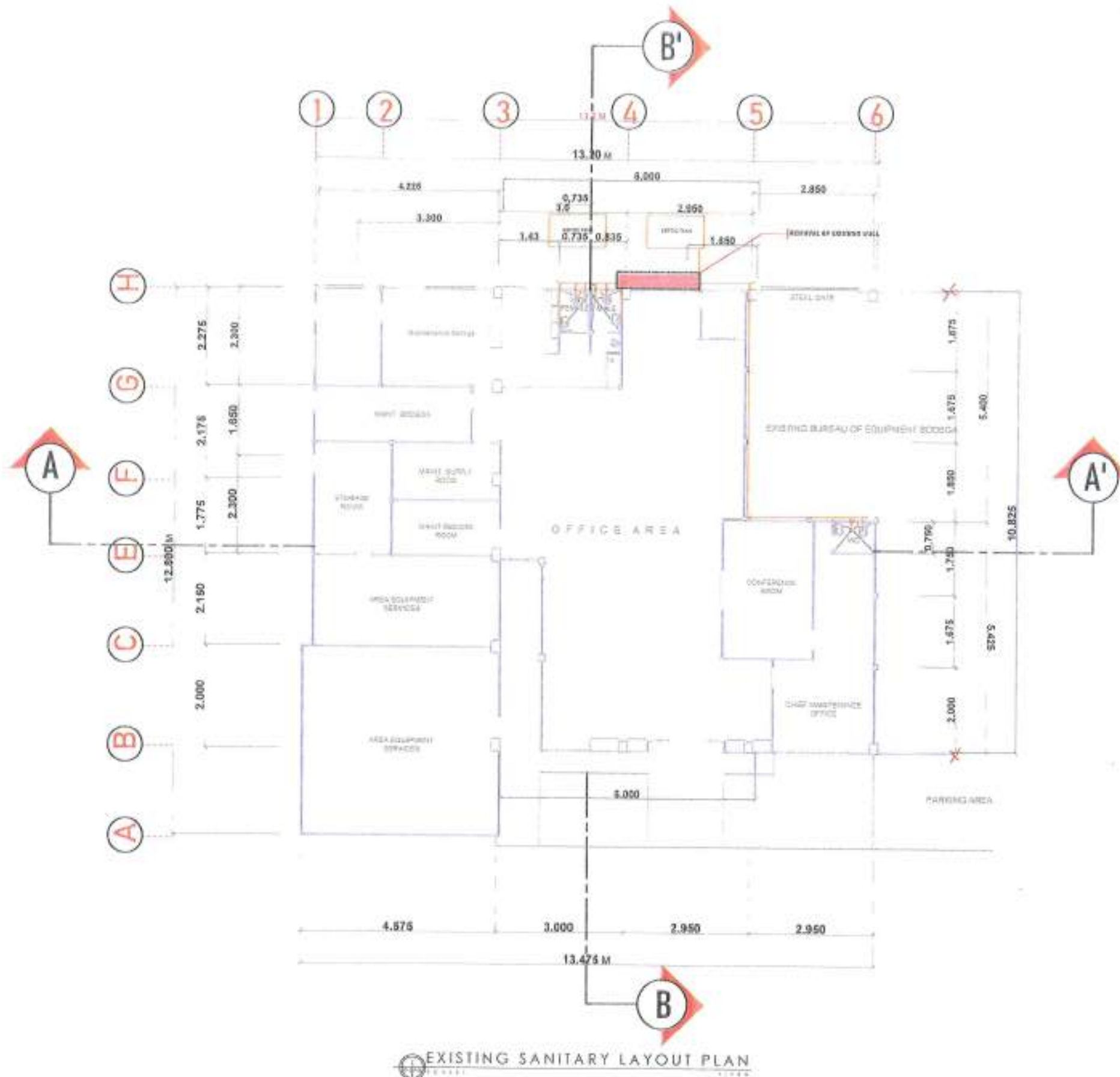
SUBMITTED  
ABRAHAM M. AQUINO  
07-28-2025  
DATE  
7/28/25

APPROVED  
ROBERTO BONGIORNO, BSA-ELENA  
2025-25  
DATE  
7-28-25

APPROVED  
MAR C. RIVERA  
2025-25  
DATE  
7-28-25

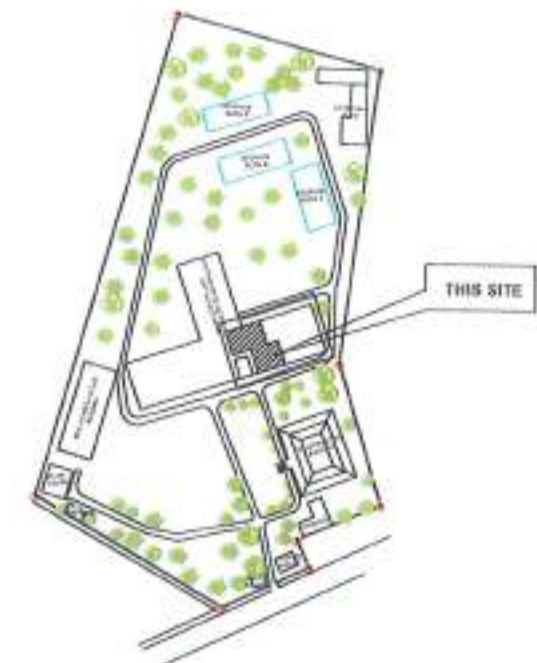
REV. NO.  
E  
4/04  
SHEET NO.  
13  
17





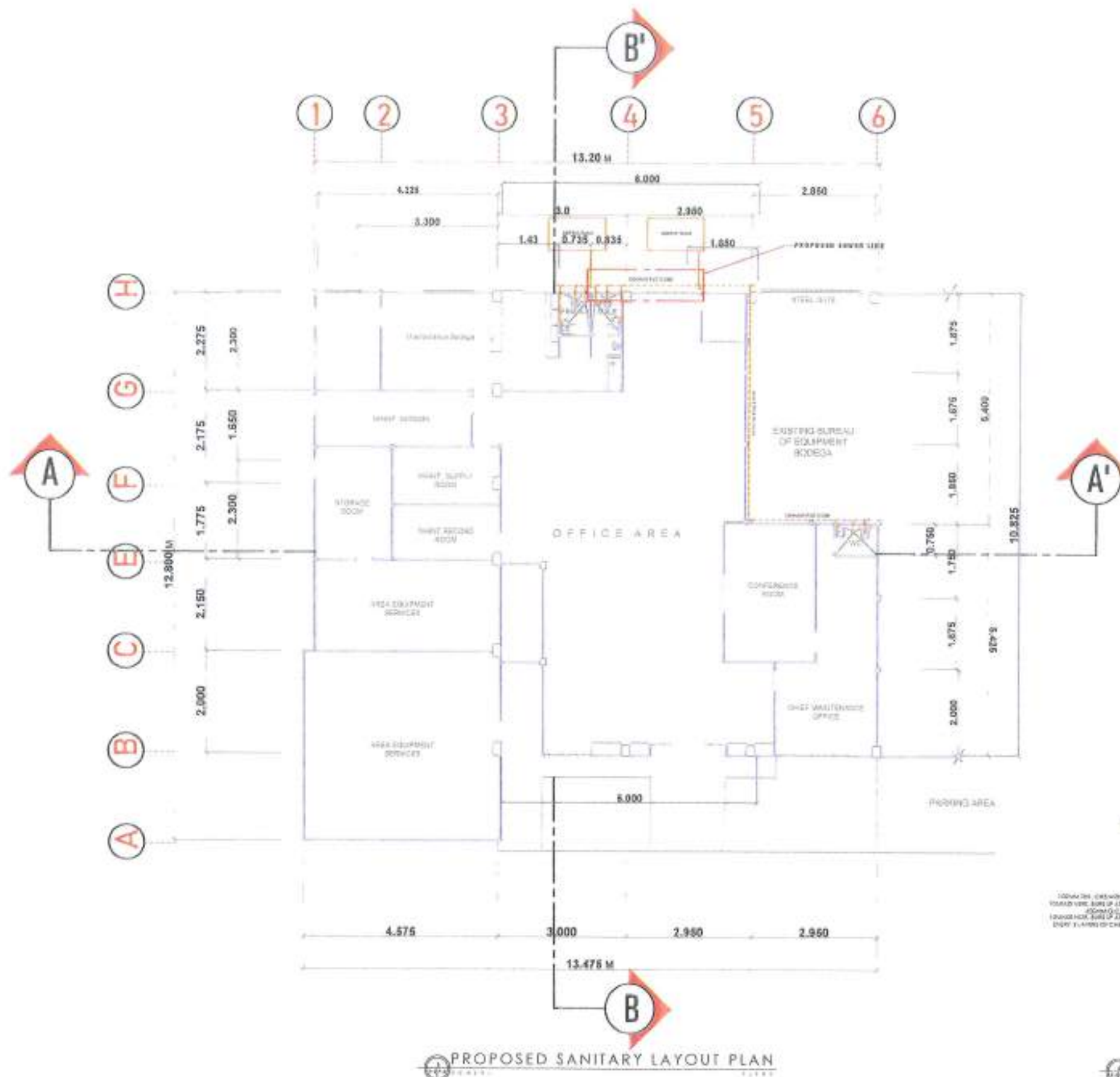
## PLUMBING NOTES:

1. ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE NATIONAL PLUMBING CODE, THE NATIONAL BUILDING CODE AND RULES & REGULATION OF ZAMBOANGA CITY, & AUTHORITIES HAVING JURISDICTION.
2. COORDINATE THE DRAWING WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS. THE ARCHITECT/ ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
3. ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCATIONS REQUIRED FOR PROPER EXECUTION OF OTHER TRADE SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECT.
4. PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTOR.
5. ALL SLOPE OF HOUSE AND SEWER DRAIN SHALL BE 2% TO THE DIRECTION OF THE WATER COORDINATE THE WORKS WITH THE SEWER LINE EFFICIENT.
6. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE, DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT.
7. ALL OTHER REQUIREMENTS SHOULD BE FOLLOWED THE REVISION OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES & R.A. 1378 SHALL PREVAIL.



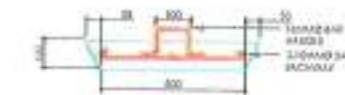
LOCATION MAP

|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                    |                                                                                               |                                                                                                  |                                                                      |                                                                  |                                                                           |                                                               |                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|
| <p>REPUBLIC OF THE PHILIPPINES<br/>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS<br/>REGIONAL OFFICE IX<br/>ZAMBOANGA CITY 2ND DISTRICT<br/>ENGINEERING OFFICE<br/>ROLL 102 MAY, DIVISION, ZAMBOANGA CITY</p> | <p>PROJECT NAME AND LOCATION:<br/>CITY 3035 PROJECT<br/>DETAILED ENGINEERING DESIGN PLAN FOR<br/>REPAIR/MAINTENANCE OF OTHER BUILDING, ZAMBOANGA CITY AND<br/>OSO BUILDING, ZAMBOANGA CITY AND PLANNING BUILDING<br/>(MAINTENANCE SECTION) PHASE 3, ROLL 102 MAY, DIVISION,<br/>ZAMBOANGA CITY</p> | <p>BRIEF CONTENTS:<br/>EXISTING SANITARY LAY OUT PLAN<br/>PLUMBING NOTES<br/>LOCATION MAP</p> | <p>DRAWN BY:<br/>JAY MARK KADAN<br/>APPROVED BY:<br/>JAY MARK KADAN<br/>DATE:<br/>07-28-2025</p> | <p>REVIEWED BY:<br/>RHIZELLE P. ARANETA<br/>DATE:<br/>07-28-2025</p> | <p>SUBMITTED BY:<br/>ABRAHAM V. AQUINO<br/>DATE:<br/>7/28/25</p> | <p>RECEIVED BY:<br/>ROBERTO BONDY P. STA. ELENA<br/>DATE:<br/>7-28-25</p> | <p>APPROVED BY:<br/>JILAR C. RIVERA<br/>DATE:<br/>7-28-25</p> | <p>SHEET NO.<br/>P<br/>1/02</p> <p>DISTRICT NO.<br/>14<br/>17</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|

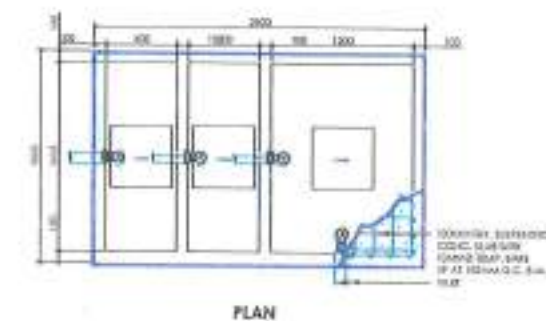


# LEGENDS

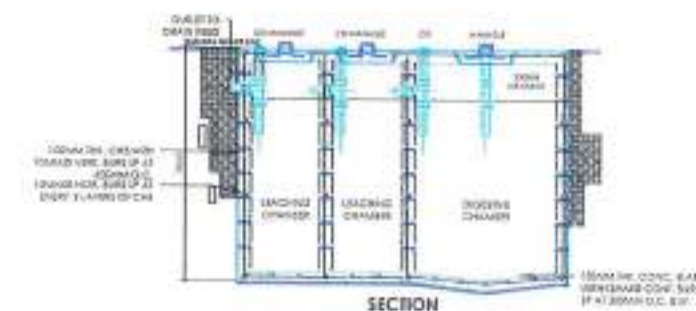
- UR URINAL
- FD FLOOR DRAIN
- CO CLEAN OUT
- WC WATER CLOSET
- LAV LAVATORY
- SANITARY LINE
- WATER LINE
- SEWER LINE
- WM WATER METER
- GV GATE VALVE



## MANHOLE DETAIL



PLAN



SECTION

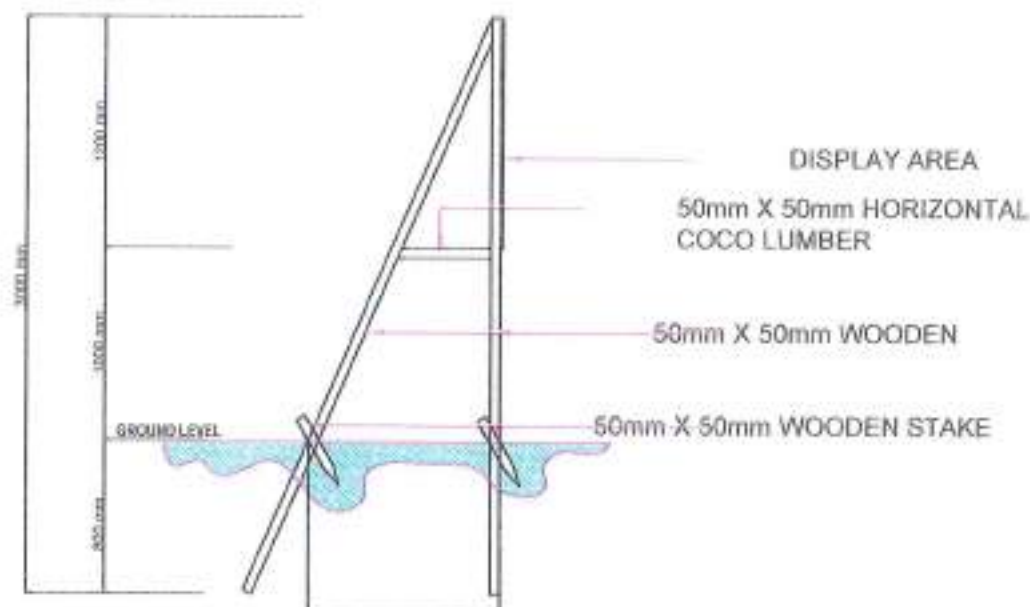
## SEPTIC TANK DETAIL

## PROPOSED SANITARY LAYOUT PLAN

|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                    |                                                                                       |                                                                                                                                 |                                                             |                                                           |                                                          |                                                          |                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|
| <p>REPUBLIC OF THE PHILIPPINES<br/>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS<br/>REGIONAL OFFICE IX<br/>ZAMBOANGA CITY 2ND DISTRICT<br/>ENGINEERING OFFICE<br/>NELL HIGHWAY, DIVISORA, ZAMBOANGA CITY</p> | <p>PROJECT NAME AND LOCATION<br/>C.V. 2015 PROJECT<br/>DETAILED ENGINEERING DESIGN PLAN FOR<br/>REPAIR/MAINTENANCE OF DPWH BUILDING, ZAMBOANGA CITY 2ND<br/>DISTRICT BUILDING, MAINTENANCE AND PLANNING BUILDING<br/>(MAINTENANCE SECTION) PHASE 1, MOLL HIGHWAY, DIVISORA,<br/>ZAMBOANGA CITY</p> | <p>SHEET CONTENTS<br/>PROPOSED SANITARY LAYOUT<br/>LEGENDS<br/>SEPTIC TANK DETAIL</p> | <p>DRAWN BY: <i>[Signature]</i><br/>CHECKED BY: <i>[Signature]</i><br/>APPROVED BY: <i>[Signature]</i><br/>DATE: 07-28-2025</p> | <p>REVIEWED BY: <i>[Signature]</i><br/>DATE: 07-28-2025</p> | <p>SUBMITTED BY: <i>[Signature]</i><br/>DATE: 7/28/25</p> | <p>RECEIVED BY: <i>[Signature]</i><br/>DATE: 7-29-25</p> | <p>APPROVED BY: <i>[Signature]</i><br/>DATE: 7-29-25</p> | <p>SHEET NO.<br/>P<br/>2/02</p> <p>SHEET NO.<br/>15<br/>17</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|







**TYPICAL FRAME ELEVATION**




## THIS IS WHERE YOUR TAXES GO

**NAME OF PROJECT:**

**LOCATION:**

**NAME OF CONTRACTOR:**

**DATE STARTED:**

**CONTRACT COMPLETION DATE:**

**CONTRACT COST:**

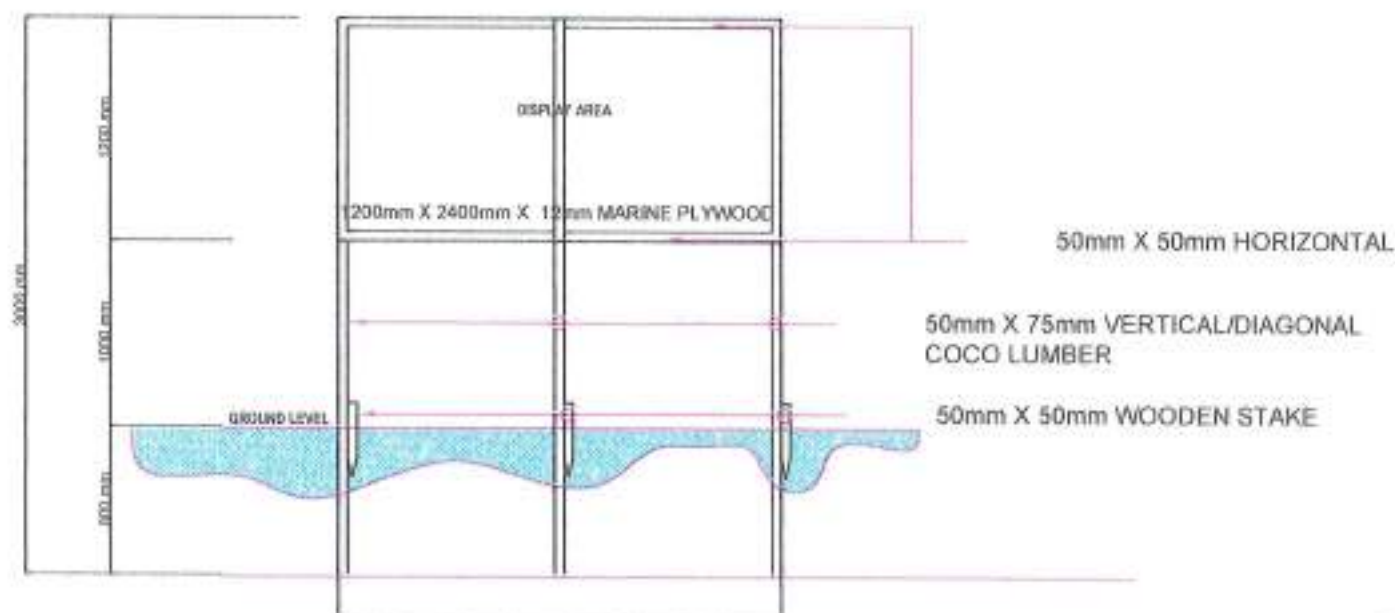
**IMPLEMENTING OFFICE:**

**SOURCE OF FUND:**

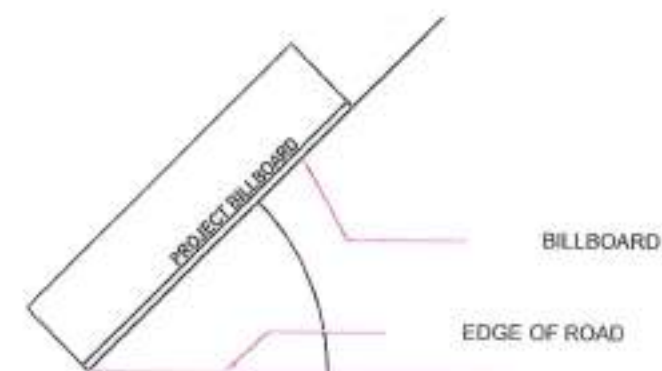
Department of Public Works and Highways  
Tel 6965941784 or call (02) 185-32 for any concern on this project  
www.dpw.gov.ph

# DPWH STANDARD PROJECT BILLBOARD

- GENERAL NOTES:**
1. FONT STYLE SHALL BE ARIAL, WHILE THE DIMENSION AND LETTER SIZES AS INDICATED ON THE DESIGN LAYOUT SHALL BE ON WHITE BACKGROUND.
  2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.



**FRONT ELEVATION**



ROAD TRAFFIC DIRECTION

**ORIENTATION**

|                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                            |                                                                    |                                                                                                                      |                                                                                                  |                                                                                        |                                                                                                      |                                                                             |                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------|
|  <p>REPUBLIC OF THE PHILIPPINES<br/>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS<br/>REGIONAL OFFICE II<br/>ZAMBOANGA CITY 2ND DISTRICT<br/>ENGINEERING OFFICE<br/>MC-1 HIGHWAY, ORSOGRA, ZAMBOANGA CITY</p> | <p>PROJECT NAME AND LOCATION:<br/>S.R. 2ND PROJECT</p> <p>DETAILS TO PROJECT DESIGN PLAN FOR<br/>REPAIR/MAINTENANCE OF DPWH BUILDING, ZAMBOANGA CITY AND<br/>OCCUPANCY, MAINTENANCE AND PLANNING BUILDING<br/>(KAWADANAN SECTION) PHASE 1, RCL, KAWADANAN, ORSOGRA,<br/>ZAMBOANGA CITY</p> | <p>SHEET CONTENTS:<br/>SAMPLE OF PROJECT BILLBOARD AND DETAILS</p> | <p>DRAFTED:<br/>BY MARK C. SAGAN<br/>DATE 09/28/2025</p> <p>PREPARED:<br/>JOHN ROY V. SANSON<br/>DATE 09/28/2025</p> | <p>DESIGNED BY TO DESIGNER/CONCEPT:<br/>RHIZELLE P. ARANETA<br/>ENGINEER<br/>DATE 07/28/2025</p> | <p>SUBMITTED:<br/>ABRAHAM M. AGUIÑO<br/>CHIEF MAINTENANCE SECTION<br/>DATE 7/28/25</p> | <p>REVIEWED BY:<br/>ROBERTO DORDE F. STA. ELENA<br/>ASSISTANT DISTRICT ENGINEER<br/>DATE 7-28-25</p> | <p>APPROVED:<br/>HILAR C. RIVERA<br/>DISTRICT ENGINEER<br/>DATE 9-28-25</p> | <p>SHEET NO.<br/>2</p> <p>SHEET NO.<br/>17</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------|