

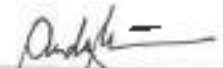


Republic of the Philippines  
**DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**  
REGIONAL OFFICE No. VIII  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
Catarman, Northern Samar

C.Y. 2025 PROJECT  
DETAILED ENGINEERING DESIGN PLAN FOR  
**CONSTRUCTION OF MULTIPURPOSE BUILDING, BRGY. DAO,**  
**SAN JOSE, NORTHERN SAMAR**  
San Jose, Northern Samar

LOCATION: Brgy. Dao, San Jose, Northern Samar  
LATITUDE: 12.522247  
LONGITUDE: 124.461722

SUBMITTED

  
ANDY S. UREÑO  
CHIEF, PLANNING AND DESIGN SECTION  
Date

RECOMMENDED:

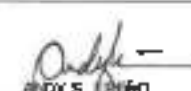
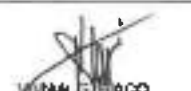
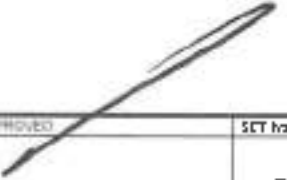
  
VIVIAN G. BIACO  
ASST. DISTRICT ENGINEER  
Date

APPROVED:

  
ALVIN A. IDLACIO  
DISTRICT ENGINEER  
Date

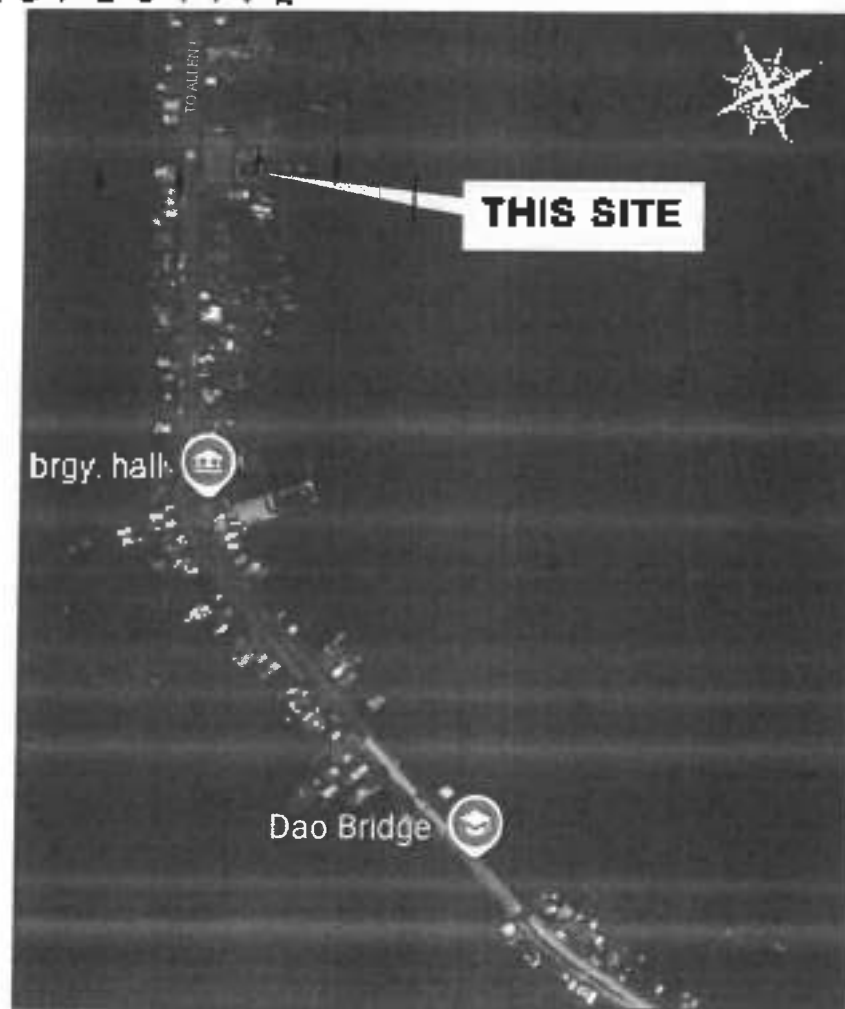
## SUMMARY OF QUANTITIES

| ITEM NO.      | DESCRIPTION                                                         | UNIT  | QUANTITY  | REMARKS |
|---------------|---------------------------------------------------------------------|-------|-----------|---------|
| <b>PART B</b> | <b>OTHER GENERAL REQUIREMENTS</b>                                   |       |           |         |
| B.3(1)        | Permits and Clearances                                              | ls.   | 1.00      |         |
| B.5(1)        | Project Billboard/Signboard (Department of Public Works & Highways) | each  | 1.00      |         |
| B.5(1)        | Project Billboard/Signboard (Commission on Audit)                   | each  | 1.00      |         |
| B.7(1)        | Occupational Safety and Health                                      | ls    | 1.00      |         |
| B.9(1)        | Mobilization/Demobilization                                         | ls.   | 1.00      |         |
|               | <b>DIVISION I - GENERAL</b>                                         |       |           |         |
| <b>PART C</b> | <b>EARTHWORK</b>                                                    |       |           |         |
| 802(1)        | Unsuitable Excavation                                               | cu.m  | 41.26     |         |
| 803(1)a       | Structure Excavation, Common Soil                                   | cu.m. | 149.79    |         |
| 804(1)a       | Embankment from Structure Excavation, Common Soil                   | cu.m  | 86.30     |         |
| 804(2)a       | Embankment from Borrow, Common Soil                                 | cu.m. | 162.90    |         |
| 804(7)        | Gravel Fill                                                         | cu.m. | 10.70     |         |
| <b>PART D</b> | <b>REINFORCED CONCRETE</b>                                          |       |           |         |
| 900(2)c       | Structural Concrete (Class B, 28 days)                              | cu.m  | 17.38     |         |
| 900(1)i       | Structural Concrete (Class A, 28 days)                              | cu.m  | 13.20     |         |
| 900(1)c       | Structural Concrete, 3000psi (Class A, 28 days)                     | cu.m  | 43.35     |         |
| 902(1)a1      | Reinforcing Steel (Deformed) Grade 40                               | kg    | 11,977.85 |         |
| 902(1)a2      | Reinforcing Steel (Deformed) Grade 60                               | kg    | 81.87     |         |
| 903(2)        | Formworks and Falseworks                                            | sq.m  | 140.65    |         |
| <b>PART E</b> | <b>FINISHINGS AND OTHER CML WORKS</b>                               |       |           |         |
| 1000(1)       | Soil Poisoning                                                      | L     | 3.00      |         |
| 1001(8)       | Sewer Line Works                                                    | ls.   | 1.00      |         |
| 1001(9)       | Storm Drainage and Downspout                                        | ls.   | 1.00      |         |
| 1002(4)       | Plumbing Fixtures                                                   | ls.   | 1.00      |         |
| 1002(24)      | Cold Water Lines                                                    | ls.   | 1.00      |         |
| 1003(1)b4     | Ceiling, 6mm, Wood Frame, Marine Plywood                            | sq.m  | 140.04    |         |
| 1004(2)       | Finishing Hardware                                                  | ls    | 1.00      |         |
| 1008(1)a      | Aluminum Glass Windows, Sliding Type                                | sq.m. | 24.38     |         |
| 1010(1)       | Frames, Jambs                                                       | set   | 6.00      |         |
| 1010(2)a      | Doors (Flush)                                                       | sq.m  | 2.94      |         |
| 1010(2)b      | Doors (Wood Panel)                                                  | sq.m  | 7.14      |         |
| 1013(2)b      | Fabricated Metal Roofing Accessory, Flashings                       | ln.m  | 14.40     |         |
| 1014(1)a2     | Prepainted Metal Sheets, above 0.427 mm, Corrugated Type, Long Span | sq.m  | 72.38     |         |
| 1016(1)a      | Waterproofing (Cement-base)                                         | sq.m  | 9.65      |         |
| 1027(1)       | Cement Plaster Finish                                               | sq.m  | 403.08    |         |
| 1032(1)c      | Painting Works, Steel                                               | sq.m  | 122.35    |         |
| 1046(2)a1     | CHB Non Load Bearing (including Reinforcing Steel), 100 mm          | sq.m  | 66.97     |         |
| 1046(2)a2     | CHB Non Load Bearing (including Reinforcing Steel), 150 mm          | sq.m  | 245.37    |         |
| 1047(5)a      | Metal Structure Accessories, Bolts                                  | kg    | 30.36     |         |
| 1047(5)d      | Metal Structure Accessories, Steel Plates                           | kg    | 208.81    |         |
| 1047(8)a      | Structural Steel, Trusses                                           | kg    | 2,020.90  |         |
| 1047(8)b      | Structural Steel, Purlins                                           | kg    | 1,062.95  |         |
| 1051(1)a      | Railing                                                             | ls.   | 1.00      |         |
| <b>PART F</b> | <b>ELECTRICAL</b>                                                   |       |           |         |
| 1100(10)      | Conduits, Boxes & Fittings (Conduit Works/Conduit Rough-in)         | ls.   | 1.00      |         |
| 1101(33)      | Wires and Wiring Devices                                            | ls.   | 1.00      |         |
| 1102(1)       | Panelboard with Main & Branch Breakers                              | ls.   | 1.00      |         |
| 1103(1)       | Lighting Fixtures                                                   | ls    | 1.00      |         |

|                                                                                                                                                                                                                                                                                     |                                                                                                          |               |                                                                                                                                                                            |                                                                                                                                                                         |                                                                                                                                                                          |                                                                                                                                                                            |                                                                                                                                                                         |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <br>Republic of the Philippines<br>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS<br>REGIONAL OFFICE - 8<br>NORTHERN SAMAR FIRST<br>DISTRICT ENGINEERING OFFICE<br><small>Division Office - 801</small> | PROJECT NAME & LOCATION                                                                                  | SHEET CONTENT | DESIGNED                                                                                                                                                                   | REVIEWED                                                                                                                                                                | SUBMITTED                                                                                                                                                                | RECEIVED BY                                                                                                                                                                | APPROVED                                                                                                                                                                | SET NO.                                                                               | SHEET NO.                                                                             |
|                                                                                                                                                                                                                                                                                     | CONSTRUCTION OF MULTIPURPOSE BUILDING<br>BRGY. BAO, SAN JOSE, NORTHERN SAMAR<br>San Jose, Northern Samar |               | <br>DESIGNED:<br>BAPTISTO L. LUCIANO<br><small>REGISTERED ELECTRICAL ENGINEER</small> | <br>REVIEWED:<br>ALVIN A. IGNACIO<br><small>REGISTERED ELECTRICAL ENGINEER</small> | <br>SUBMITTED:<br>ALVIN A. IGNACIO<br><small>REGISTERED ELECTRICAL ENGINEER</small> | <br>RECEIVED BY:<br>ALVIN A. IGNACIO<br><small>REGISTERED ELECTRICAL ENGINEER</small> | <br>APPROVED:<br>ALVIN A. IGNACIO<br><small>REGISTERED ELECTRICAL ENGINEER</small> |  |  |



PERSPECTIVE



VICINITY MAP

# TABLE OF CONTENTS

## ARCHITECTURAL

- A-01 PERSPECTIVE VIEW/TYPICAL
- A-02 LOCATION MAP
- A-03 SITE DEVELOPMENT PLAN
- A-04 GROUND FLOOR PLAN
- A-05 SECOND FLOOR PLAN
- A-06 RIGHT SIDE ELEVATION
- A-07 LEFT SIDE ELEVATION
- A-08 FRONT ELEVATION
- A-09 REAR ELEVATION
- A-10 REFLECTED SECTION PLAN (GROUND FLOOR)
- A-11 REFLECTED SECTION PLAN (SECOND FLOOR)
- A-12 SCHEDULE OF DOORS AND WINDOWS
- A-13 SCHEDULE OF FLOOR FINISHES
- A-14 SCHEDULE OF WALL FINISHES
- A-15 SCHEDULE OF CEILING FINISHES
- A-16 SCHEDULE OF ROOF FINISHES
- A-17 SCHEDULE OF PAINTS
- A-18 SCHEDULE OF LIGHTING FIXTURES
- A-19 SCHEDULE OF FURNITURE
- A-20 SCHEDULE OF EQUIPMENT

## STRUCTURAL

- S-01 STRUCTURAL GENERAL NOTES
- S-02 FOUNDATION PLAN
- S-03 GROUND FLOOR FRAMING PLAN
- S-04 SECOND FLOOR FRAMING PLAN
- S-05 ROOF FRAMING PLAN
- S-06 COLUMN SCHEDULE
- S-07 BEAM SCHEDULE
- S-08 WALL SCHEDULE
- S-09 FLOOR SCHEDULE
- S-10 ROOF SCHEDULE
- S-11 TRUSS SCHEDULE
- S-12 TYPICAL BEAM SECTION
- S-13 TYPICAL WALL SECTION
- S-14 TYPICAL FLOOR SECTION
- S-15 TYPICAL ROOF SECTION
- S-16 TYPICAL TRUSS SECTION
- S-17 TYPICAL FOUNDATION SECTION
- S-18 TYPICAL CONNECTION SECTION
- S-19 TYPICAL DETAIL SECTION
- S-20 TYPICAL CONNECTION SECTION

## ELECTRICAL

- E-01 ELECTRICAL GENERAL NOTES
- E-02 SITE DEVELOPMENT PLAN
- E-03 GROUND FLOOR CONDUIT LAYOUT
- E-04 SECOND FLOOR CONDUIT LAYOUT
- E-05 ROOF CONDUIT LAYOUT
- E-06 TRUSS CONDUIT LAYOUT
- E-07 FOUNDATION CONDUIT LAYOUT
- E-08 CONNECTION CONDUIT LAYOUT
- E-09 DETAIL CONDUIT LAYOUT
- E-10 CONNECTION CONDUIT LAYOUT

## PLUMBING

- P-01 PLUMBING GENERAL NOTES
- P-02 SITE DEVELOPMENT PLAN
- P-03 GROUND FLOOR PLUMBING LAYOUT
- P-04 SECOND FLOOR PLUMBING LAYOUT
- P-05 ROOF PLUMBING LAYOUT
- P-06 TRUSS PLUMBING LAYOUT
- P-07 FOUNDATION PLUMBING LAYOUT
- P-08 CONNECTION PLUMBING LAYOUT
- P-09 DETAIL PLUMBING LAYOUT
- P-10 CONNECTION PLUMBING LAYOUT

## MECHANICAL

- M-01 MECHANICAL GENERAL NOTES
- M-02 SITE DEVELOPMENT PLAN
- M-03 GROUND FLOOR MECHANICAL LAYOUT
- M-04 SECOND FLOOR MECHANICAL LAYOUT
- M-05 ROOF MECHANICAL LAYOUT
- M-06 TRUSS MECHANICAL LAYOUT
- M-07 FOUNDATION MECHANICAL LAYOUT
- M-08 CONNECTION MECHANICAL LAYOUT
- M-09 DETAIL MECHANICAL LAYOUT
- M-10 CONNECTION MECHANICAL LAYOUT

## BILLBOARD

- B-01 BILLBOARD GENERAL NOTES
- B-02 BILLBOARD LAYOUT
- B-03 BILLBOARD DETAIL

Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
Cebu Office, Negros Oriental

OFFICE OF THE  
BUILDING OFFICIAL  
San Jose, Northern Samar

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

LAND USE AND ZONING

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

LINE AND GRADE

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

ARCHITECTURAL

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

SANITARY

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

STRUCTURAL

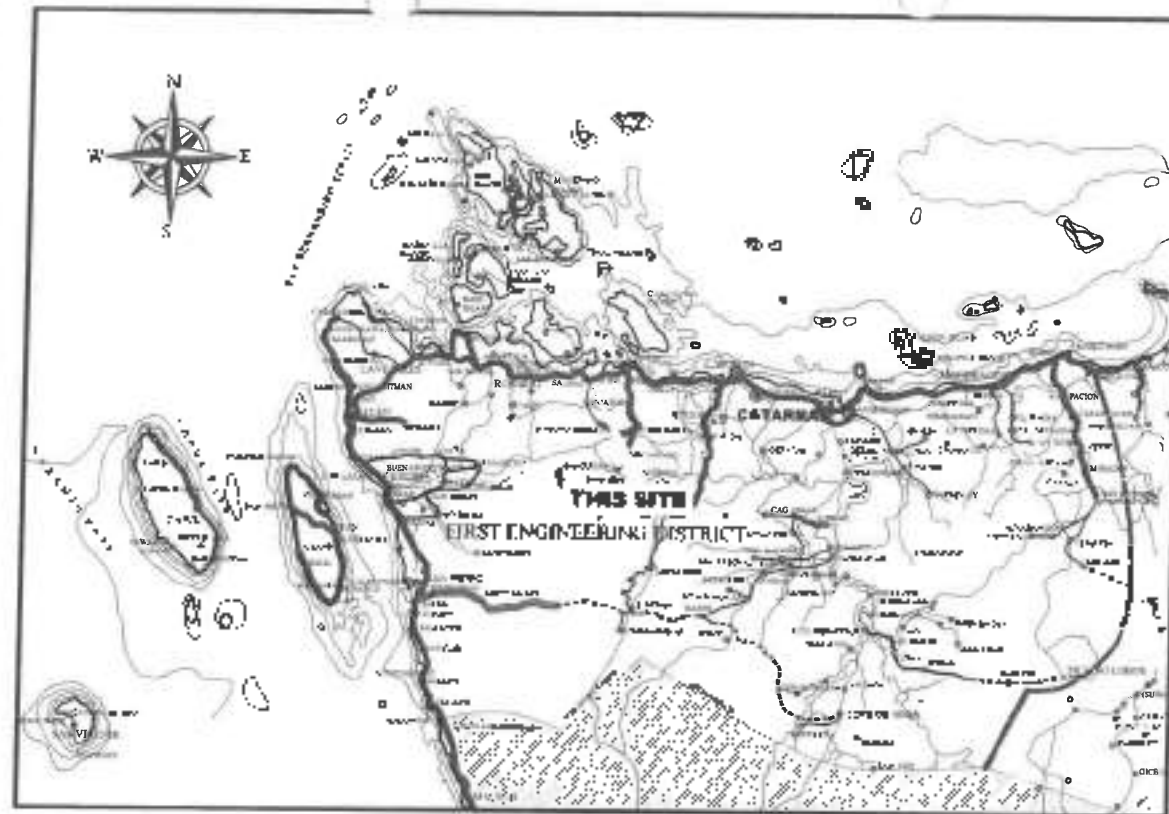
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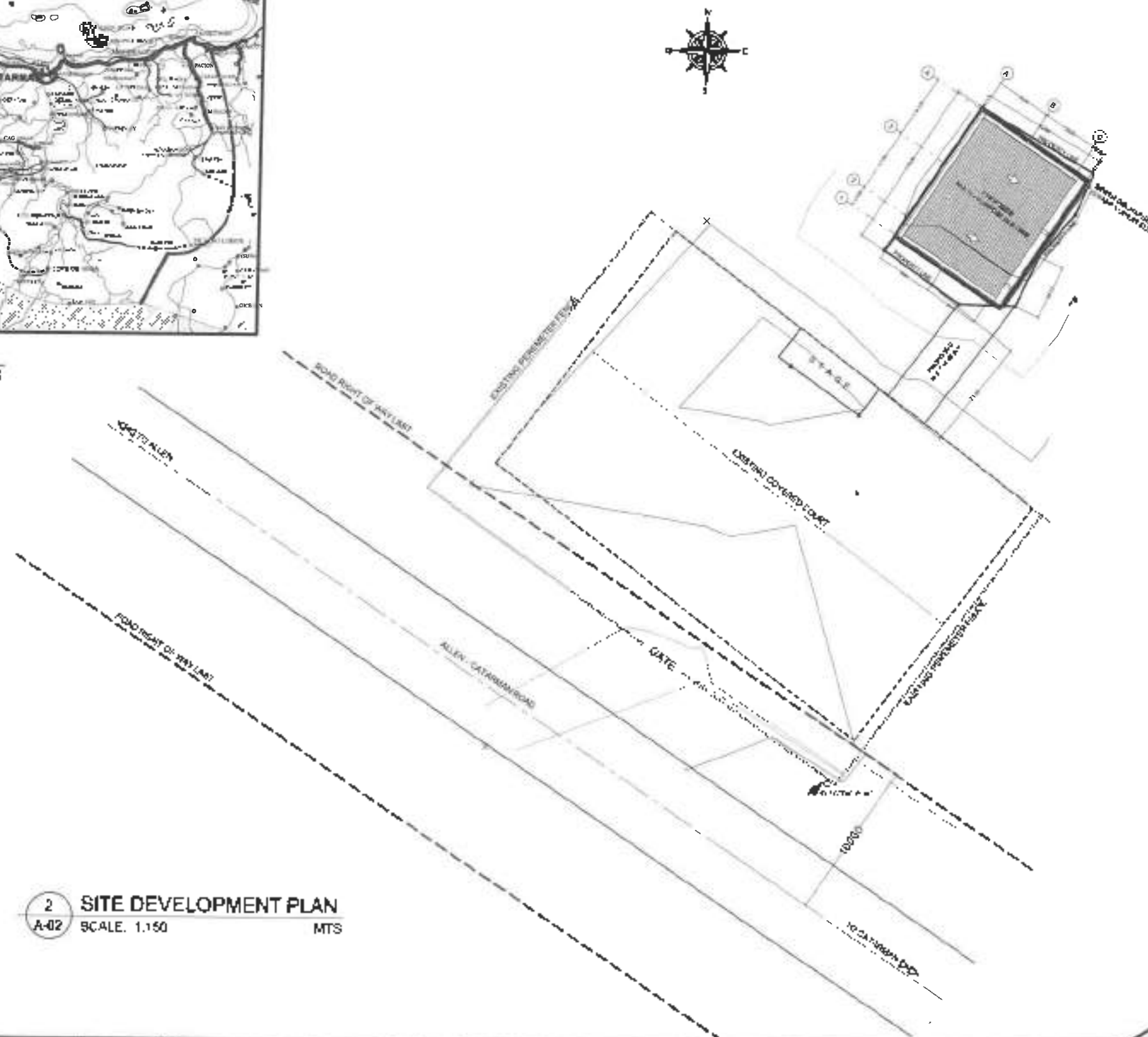
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

ELECTRICAL

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_



1 LOCATION MAP  
A-02 SCALE 1:150 MTS



2 SITE DEVELOPMENT PLAN  
A-02 SCALE 1:150 MTS



DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
NATIONAL OFFICE VII  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
CANTON, Samar, Philippines

PROJECT NAME & LOCATION

CONSTRUCTION OF MULTIPURPOSE BUILDING  
BRGY. DAD, SAN JOSE, NORTHERN SAMAR  
San Jose, Northern Samar

SHEET CONTENTS

LOCATION MAP  
SITE DEVELOPMENT PLAN

PREPARED BY

JERRY J. LACUNA  
Engineer III, Designer II

DESIGNED BY

BURT GABO F. LUCIANO  
Architect

REVIEWED BY

MARK DONALD N. ZIMAN  
Asst. Chief, Planning & Research Division

SUBMITTED BY

ANDY B. BEREND  
Chief, Planning & Research Division

RECOMMENDED BY

VIVIAN C. LACUNA  
Asst. Chief, Planning & Research Division

APPROVED BY

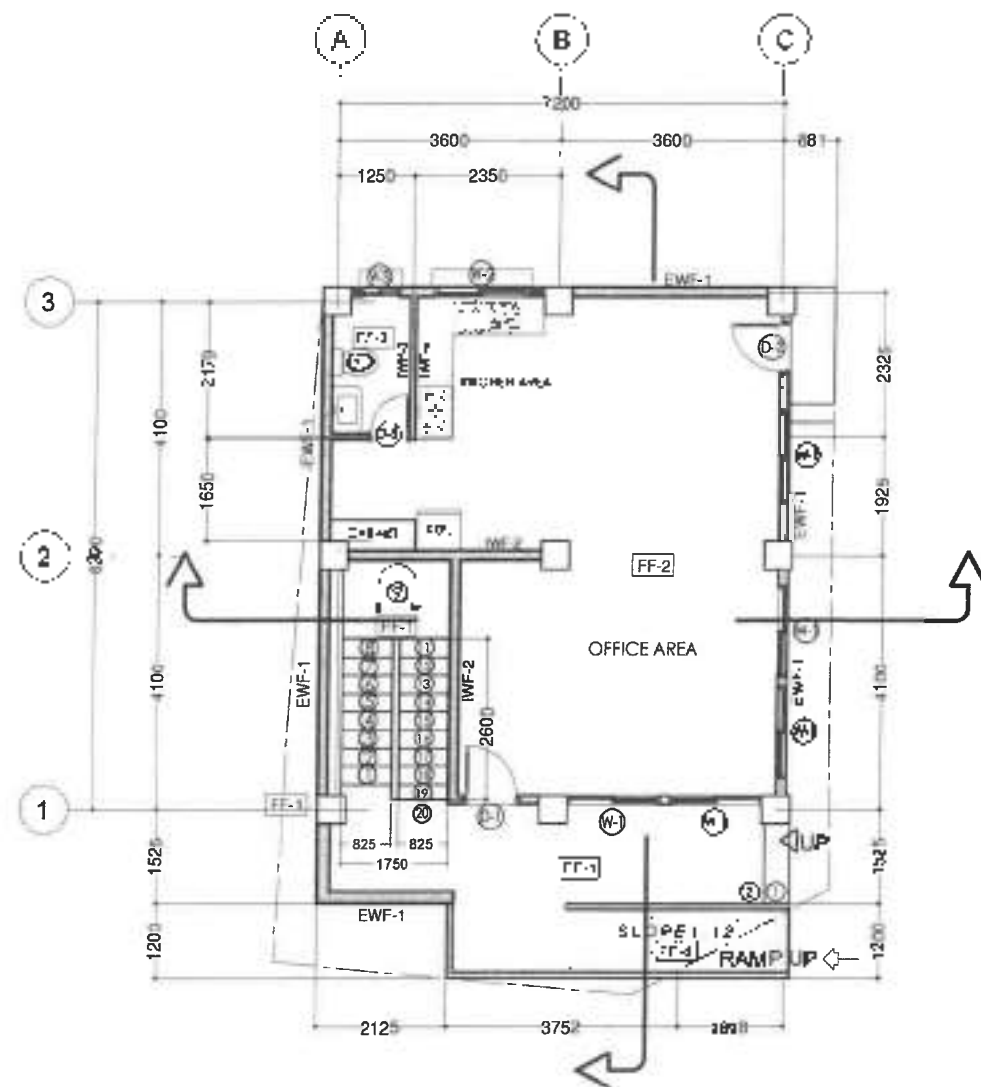
ALVIN A. IGNACIO  
District Engineer

SHEET No.

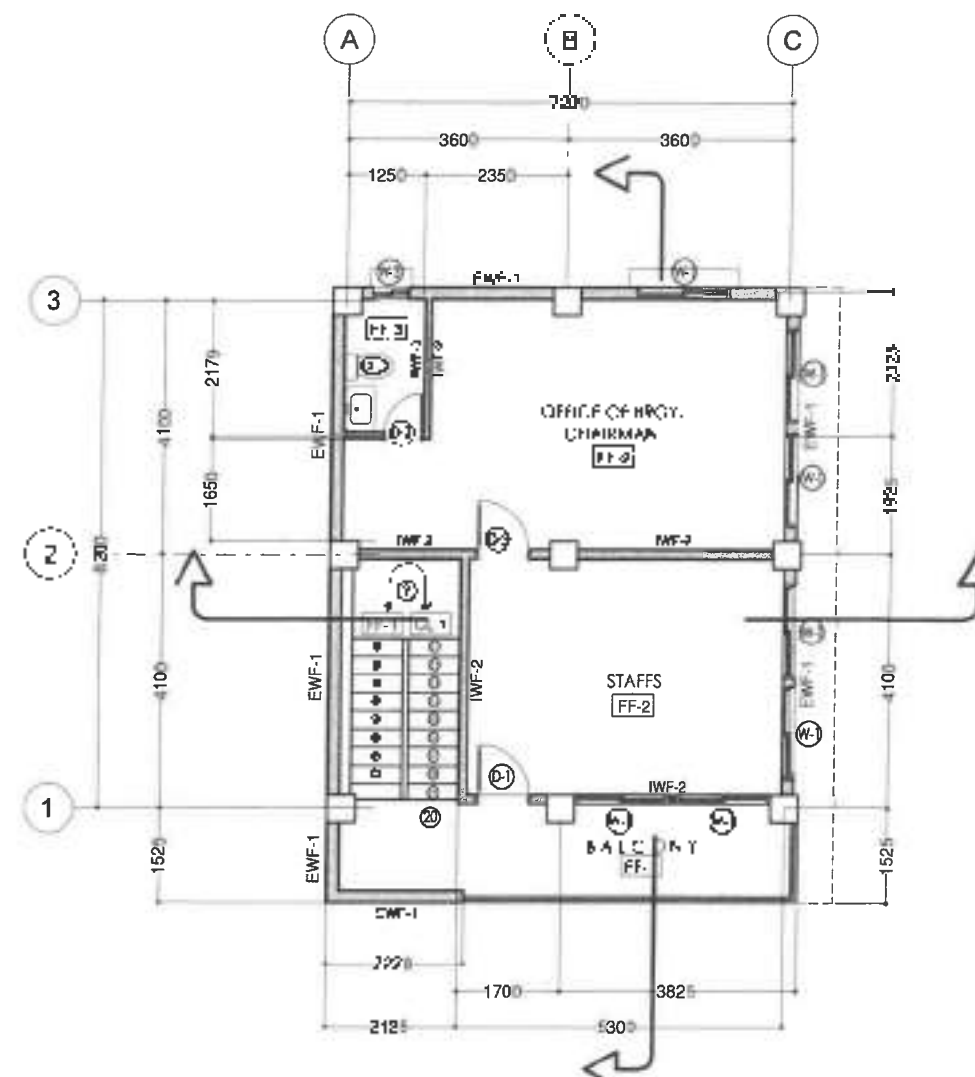
A-02

SHEET No.

04  
33



**1 GROUND FLOOR PLAN**  
A-03 SCALE 1:50 M



**2 SECOND FLOOR PLAN**  
A-03 SCALE 1:50 M

| MARK | FLOOR FINISH DESCRIPTION                       |
|------|------------------------------------------------|
| FF-1 | PLAIN CEMENT FLOOR FINISH WITH FLOOR MARKING   |
| FF-2 | 600 X 600 MM VITREOUS GLAZED TILE FLOOR FINISH |
| FF-3 | 200 X 200 MM VITREOUS GLAZED TILE FLOOR FINISH |
| FF-4 | PLAIN CEMENT FLOOR FINISH WITH FLOOR MARKING   |

| MARK  | WALL FINISH DESCRIPTION                                                                                    |
|-------|------------------------------------------------------------------------------------------------------------|
| SWF-1 | 100 X 100 MM VITREOUS GLAZED TILE WALL FINISH WITH PLASTER FINISH (PLAIN CEMENT FLOOR FINISH FOR APPROVAL) |
| SWF-2 | 100 X 100 MM VITREOUS GLAZED TILE WALL FINISH WITH PLASTER FINISH (PLAIN CEMENT FLOOR FINISH FOR APPROVAL) |
| SWF-3 | 200 X 200 MM VITREOUS GLAZED TILE WALL FINISH WITH PLASTER FINISH (PLAIN CEMENT FLOOR FINISH FOR APPROVAL) |



Department of Public Works and Highways  
Regional Office No. VII  
**NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE**  
Calbayog, Samar Province

PROJECT NAME & LOCATION

**CONSTRUCTION OF MULTIPURPOSE BUILDING**  
Brgy. Dao, San Jose, Northern Samar

SHEET CONTENTS  
GROUND FLOOR PLAN  
SECOND FLOOR PLAN

PREPARED:

JERRY J. ALONSO  
Engineer (Civil)  
DESIGNED  
JERRY J. ALONSO  
Engineer (Civil)

REVIEWED:

MANUEL R. ALONSO  
Engineer (Civil)  
CHECKED  
MANUEL R. ALONSO  
Engineer (Civil)

SUPPLEMENTED:

ANDY S. FREED  
Engineer (Civil)  
Date:

RECORDED:

MANUEL R. ALONSO  
Engineer (Civil)  
Date:

APPROVED:

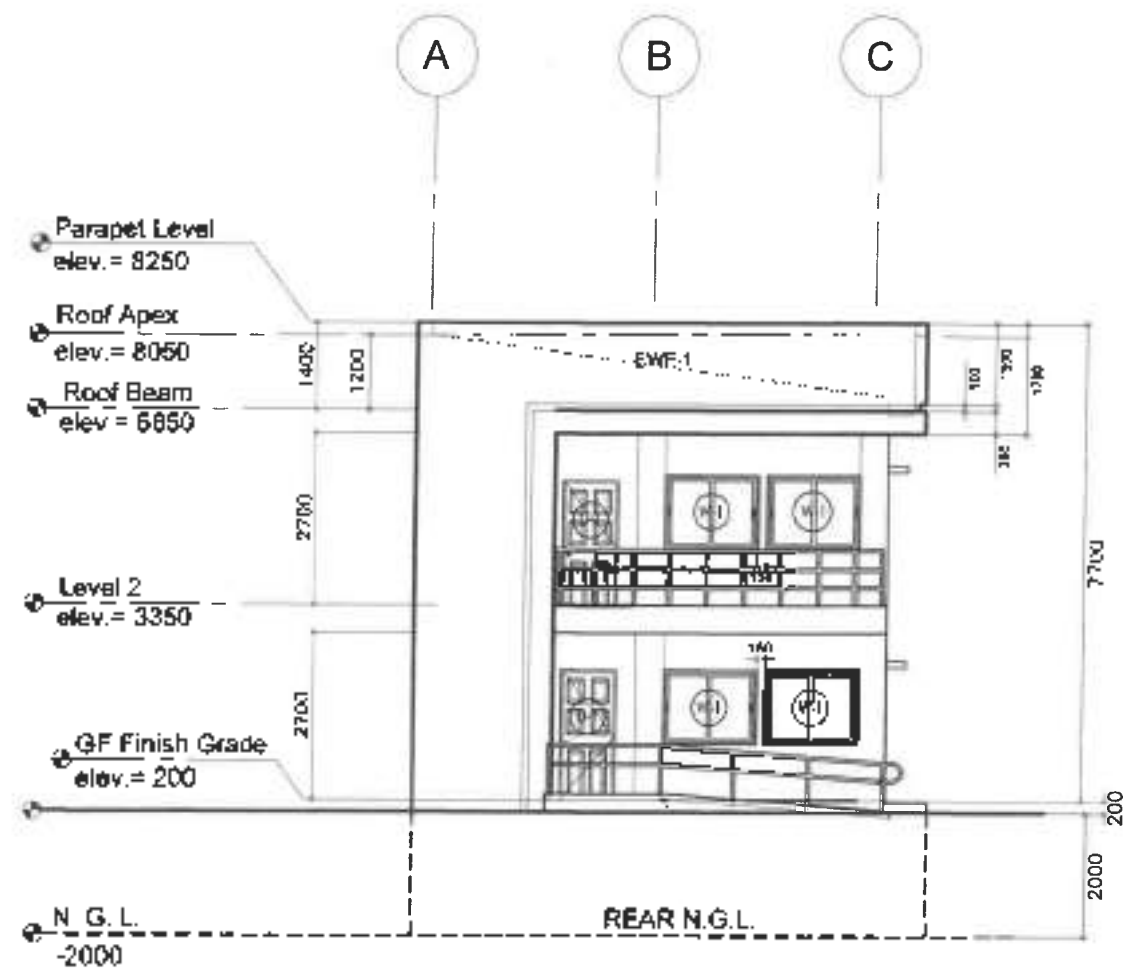
ALVIN A. IGNACIO  
District Engineer  
Date:

SHEET NO.

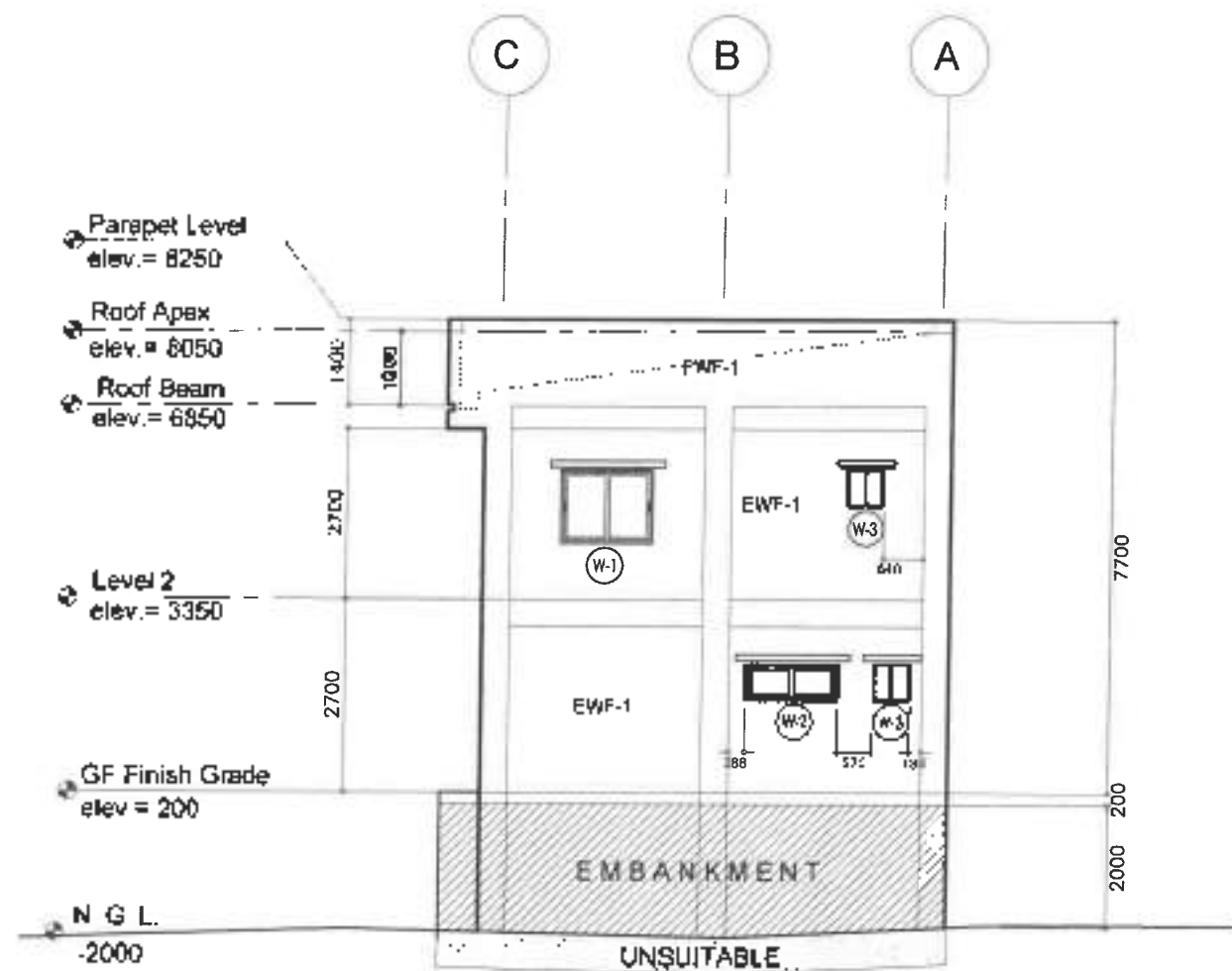
A-03

SHEET NO.

05

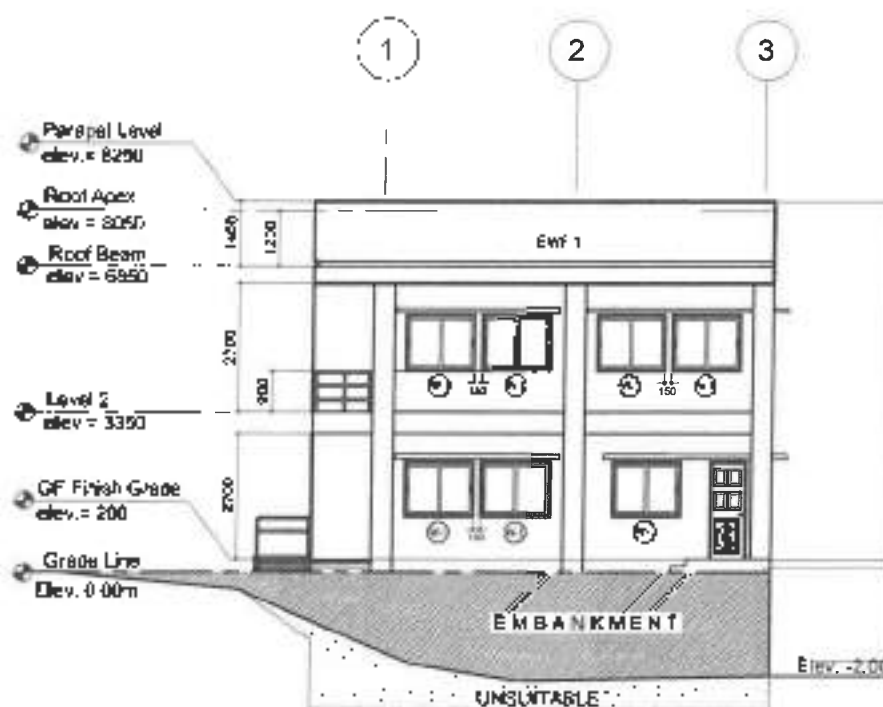


1 FRONT ELEVATION  
A-04 SCALE: 1:50 M

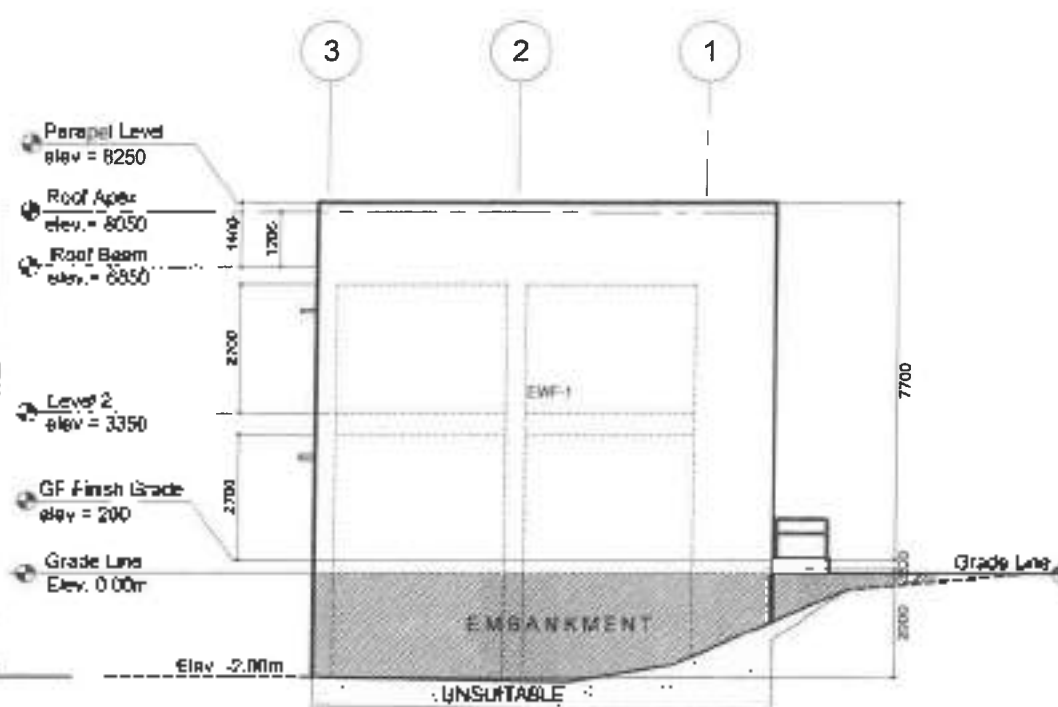


2 REAR ELEVATION  
A-04 SCALE: 1:50 M

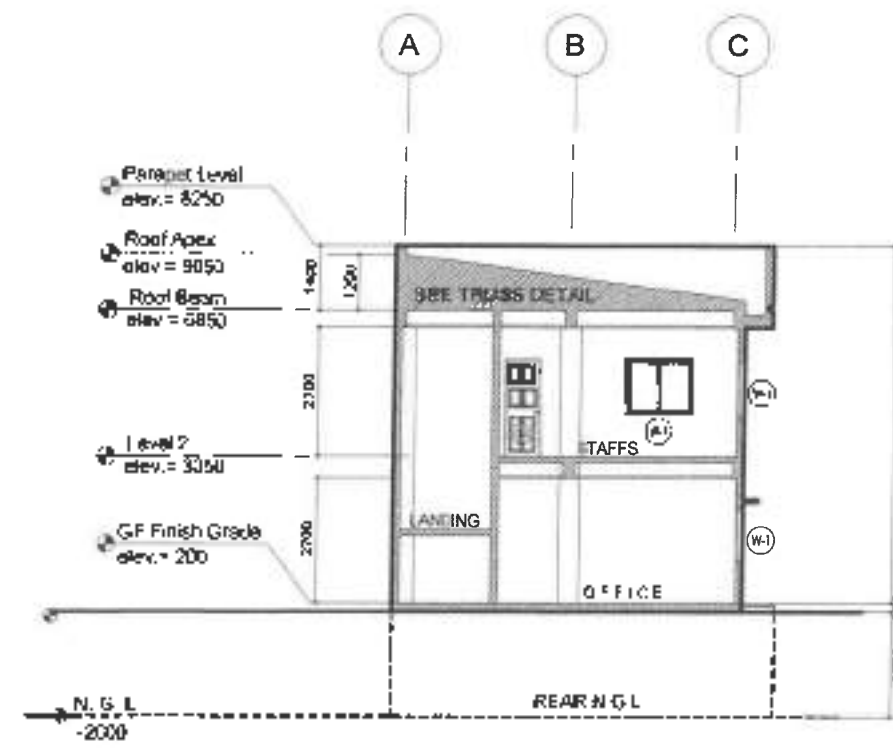
| MARK | WALL FINISH DESCRIPTION                                                                               |
|------|-------------------------------------------------------------------------------------------------------|
| EW-1 | 150 mm PRC EXTERIOR WALL WITH PLASTER (WHITE PLASTER) FINISH (SUBMIT COLOR SAMPLES FOR APPROVAL)      |
| EW-2 | 150 mm TYP. CTD EXTERIOR WALL WITH PLASTER (WHITE PLASTER) FINISH (SUBMIT COLOR SAMPLES FOR APPROVAL) |
| EW-3 | 200 mm TYP. CTD EXTERIOR WALL WITH PLASTER (WHITE PLASTER) FINISH (SUBMIT COLOR SAMPLES FOR APPROVAL) |



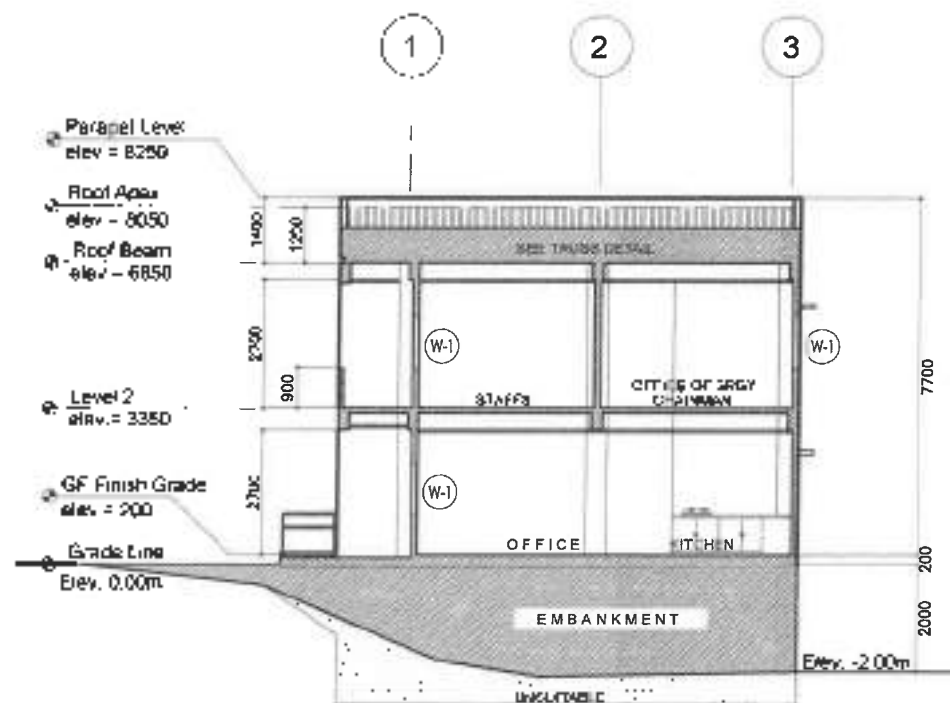
1 RIGHT SIDE ELEVATION  
A-05 SCALE: 1:30 M



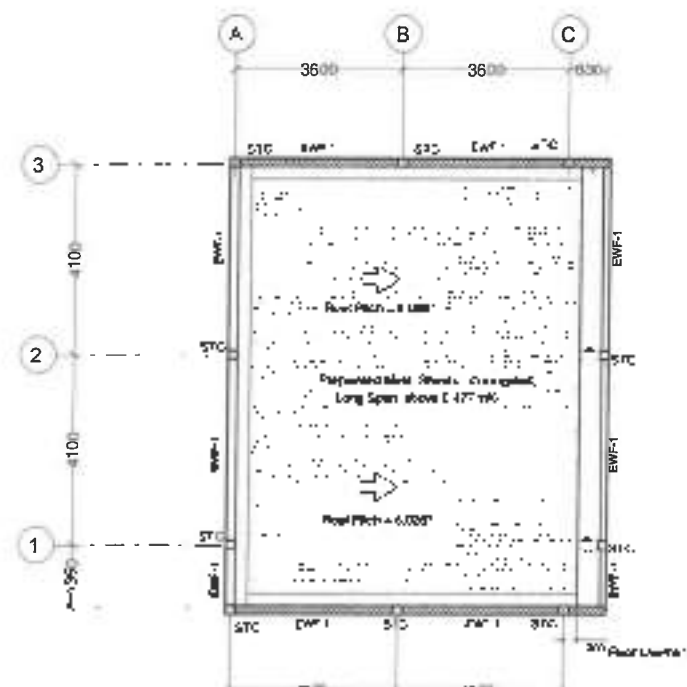
2 LEFT SIDE ELEVATION  
A-05 SCALE: 1:30 M



3 CROSS SECTION  
A-05 SCALE: 1:30 M



4 LONGITUDINAL SECTION  
A-05 SCALE: 1:30 M



5 ROOF PLAN  
A-05 SCALE: 1:30 M

| MARK  | WALL FINISH DESCRIPTION                                                                                       |
|-------|---------------------------------------------------------------------------------------------------------------|
| EWF-1 | 150mm DRY-CID EXTERIOR WALL WITH PLAIN CEMENT PLASTER PAINTED WHITE; LIGHT COLORED SOFFIT FACE, APPROXIMATELY |
| EWF-2 | 150mm DRY-CID EXTERIOR WALL WITH PLAIN CEMENT PLASTER PAINTED WHITE; LIGHT COLORED SOFFIT FACE, APPROXIMATELY |
| EWF-3 | 200mm DRY-CID EXTERIOR WALL WITH PLAIN CEMENT PLASTER PAINTED WHITE; LIGHT COLORED SOFFIT FACE, APPROXIMATELY |



DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE NO. VIII  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
CARLOS M. TORRES, JR.

PROJECT NAME & LOCATION  
CONSTRUCTION OF MULTIPURPOSE BUILDING  
BRGY. DAO, SAN JOSE, NORTHERN SAMAR  
San Jose, Northern Samar

SHEET CONTENTS  
RIGHT SIDE ELEVATION  
LEFT SIDE ELEVATION  
CROSS SECTION  
LONGITUDINAL SECTION  
ROOF PLAN

PREPARED  
DESIGNED  
CHECKED  
APPROVED  
ALVIN A. KINACIO  
ALVIN A. KINACIO  
ALVIN A. KINACIO

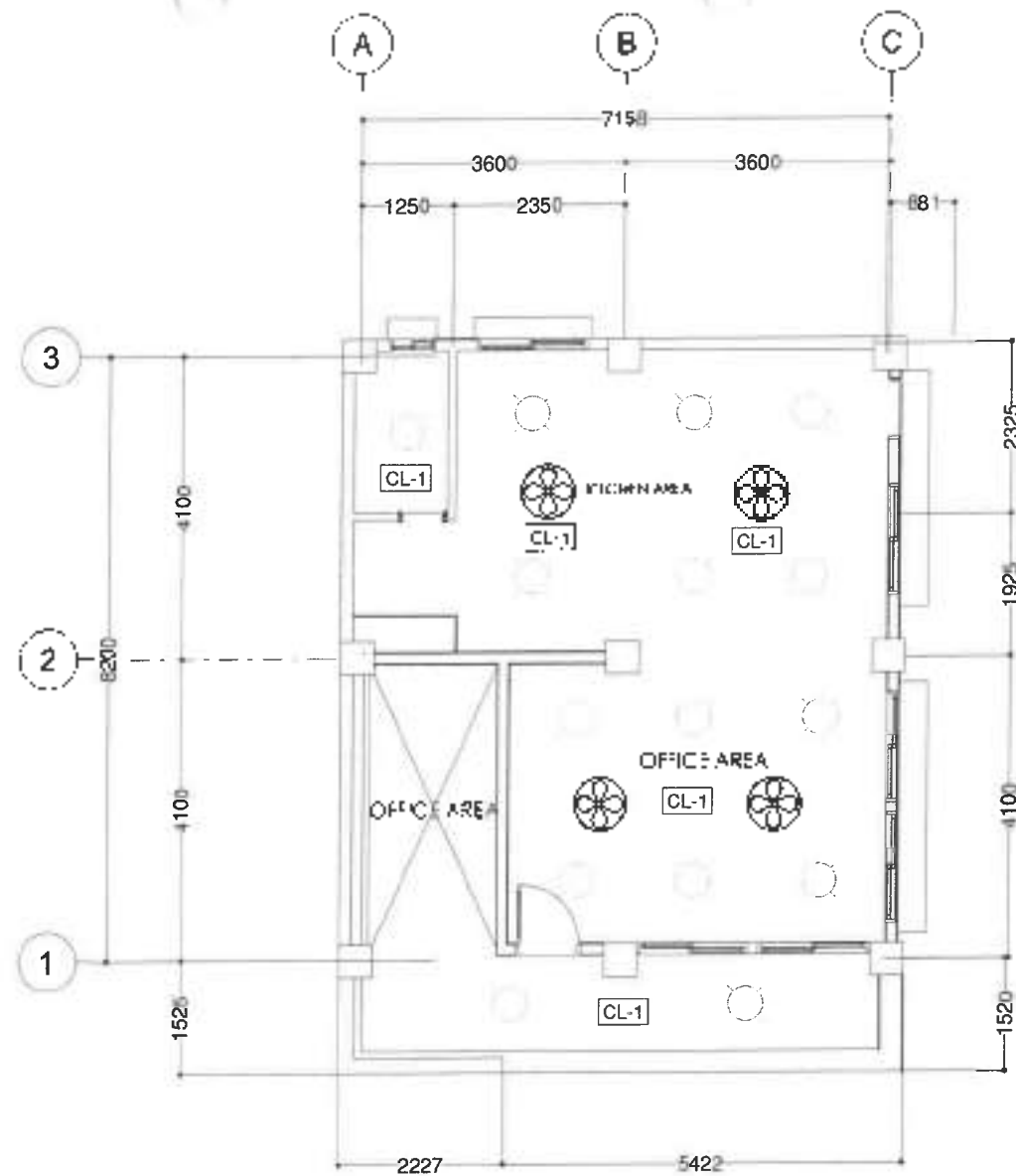
REVIEWED  
SUBMITTED  
RECOMMENDED  
APPROVED  
ALVIN A. KINACIO  
ALVIN A. KINACIO  
ALVIN A. KINACIO

REVIEWED  
SUBMITTED  
RECOMMENDED  
APPROVED  
ALVIN A. KINACIO  
ALVIN A. KINACIO  
ALVIN A. KINACIO

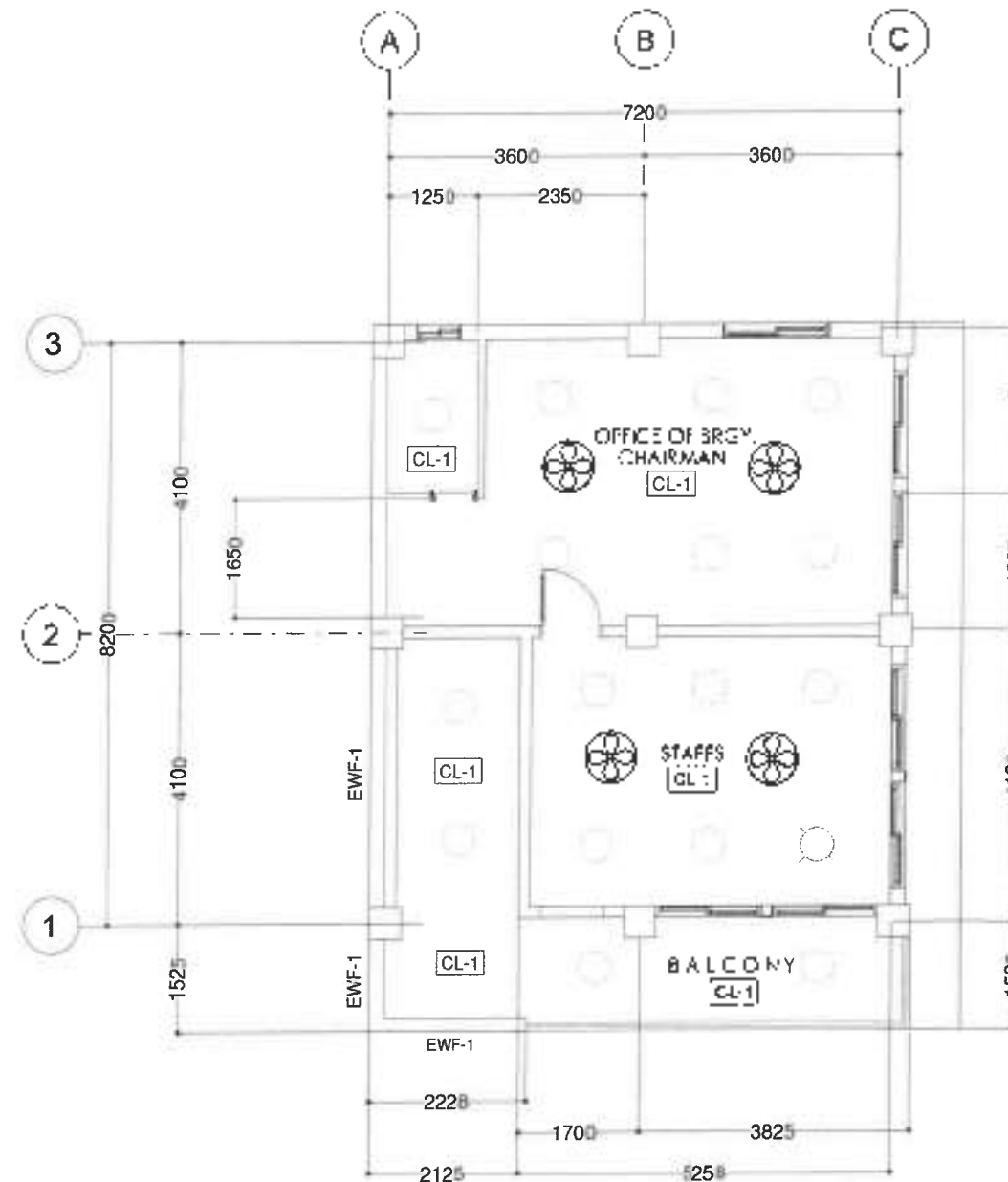
REVIEWED  
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RECOMMENDED  
APPROVED  
ALVIN A. KINACIO  
ALVIN A. KINACIO  
ALVIN A. KINACIO

REVIEWED  
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APPROVED  
ALVIN A. KINACIO  
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ALVIN A. KINACIO

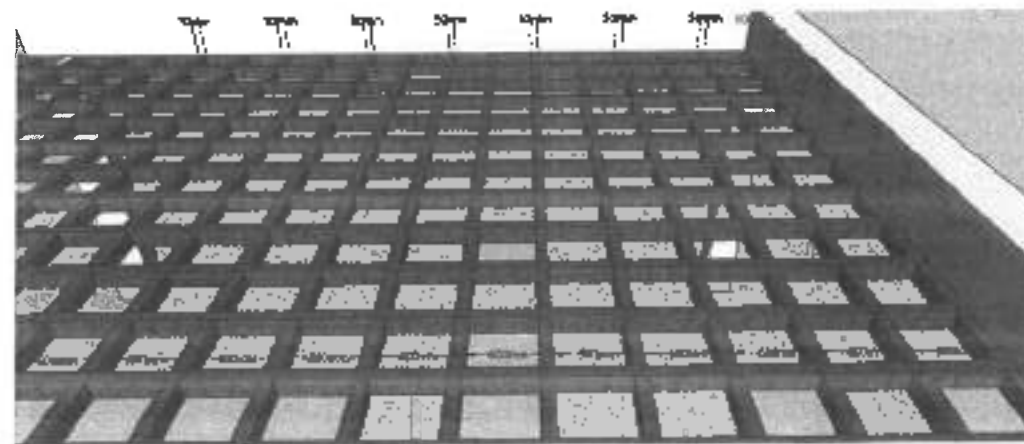
SET No  
01  
33



1 GROUND FLOOR REFLECTED CEILING PLAN  
A-06 SCALE: 1:50



2 SECOND FLOOR REFLECTED CEILING PLAN  
A-06 SCALE: 1:50



| MARK | DESCRIPTION                                                                                 |
|------|---------------------------------------------------------------------------------------------|
| CL-1 | 4'x8' T-1000 H-1000 WOOD<br>CEILING (PAINTED) 1/2" x 1/2" x 1/2"<br>@ LUMBER EVERY 800 C.C. |

3 CEILING 1 DETAIL  
A-06 NTS



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE No. VII  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
Cebu City, Northern Samar

PROJECT NAME & LOCATION

CONSTRUCTION OF MULTIPURPOSE BUILDING  
BRGY. DAD, SAN JOSE, NORTHERN SAMAR  
San Jose, Northern Samar

PROJECT CONTENTS:

GROUND FLOOR REFLECTED CEILING PLAN  
SECOND FLOOR REFLECTED CEILING PLAN  
CEILING 1 DETAIL

PREPARED

JERRY L. LUNA  
Engineering Consultant

DESIGNED

ENRICO R. L. LUCAS  
ARCHITECT

REVIEWED

MAE DONALD ALERAN  
ARCHITECT (PLANNING) & DESIGN SECTION

SUBMITTED

ANDY S. TIRADO  
CHIEF PLANNING & DESIGN SECTION

SECURITY

VIVIAN BRAGO  
CHIEF PLANNING & DESIGN SECTION

APPROVED

ALVIN A. IGNACIO  
REGIONAL ENGINEER

REF. NO.

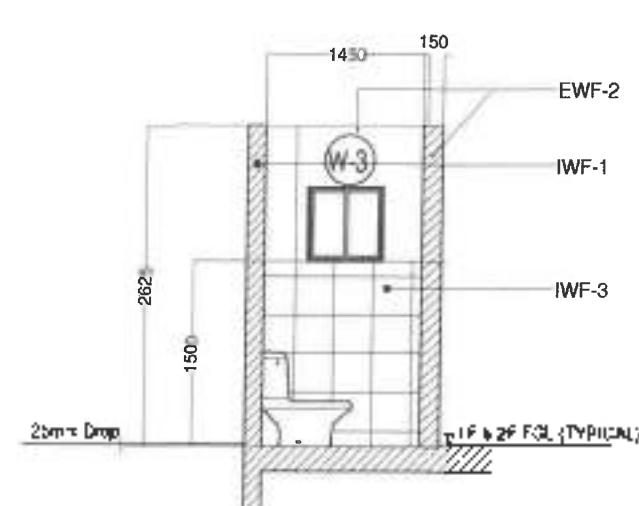
A-06

PROJECT NO.

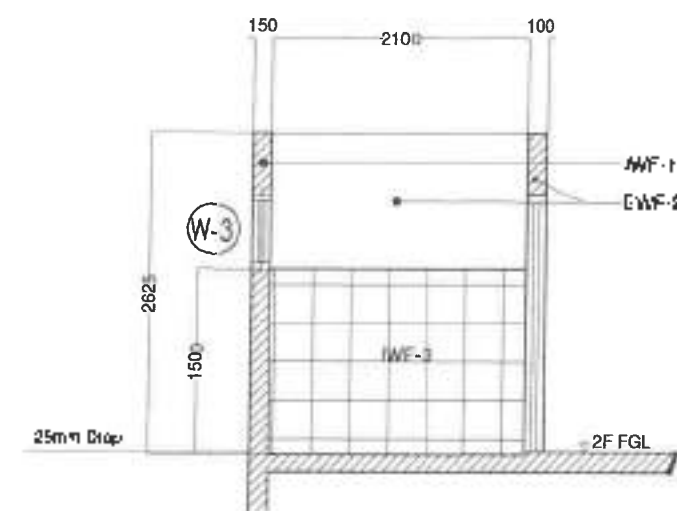
08  
33

| MARK | FLOOR FINISH DESCRIPTION                          |
|------|---------------------------------------------------|
| FF-1 | PLAIN CEMENT FLOOR FINISH WITH FLOOR TAMPING      |
| FF-2 | 500 X 400 mm VITRIFIED UNGLAZED TILE FLOOR FINISH |
| FF-3 | 200 X 200 mm VITRIFIED UNGLAZED TILE FLOOR FINISH |

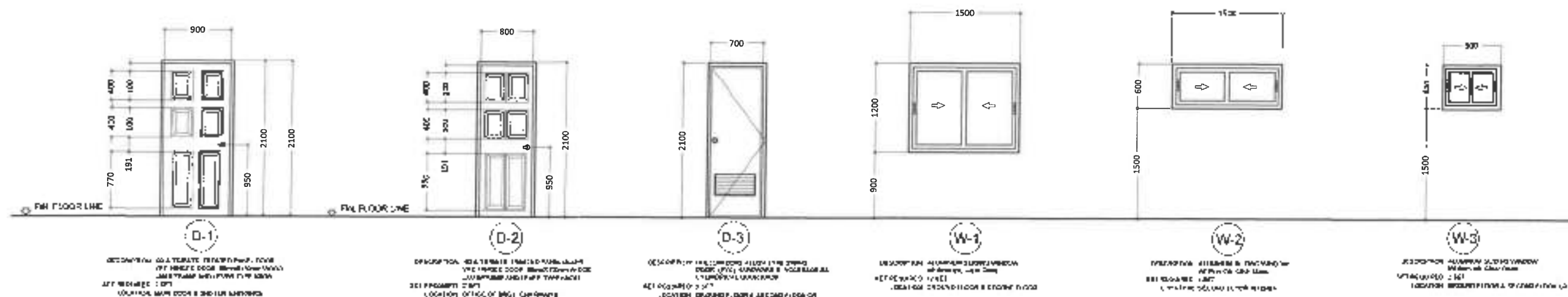
| MARK | FLOOR FINISH DESCRIPTION                          |
|------|---------------------------------------------------|
| FF-1 | PLAIN CEMENT FLOOR FINISH WITH FLOOR TAMPING      |
| FF-2 | 500 X 400 mm VITRIFIED UNGLAZED TILE FLOOR FINISH |
| FF-3 | 200 X 200 mm VITRIFIED UNGLAZED TILE FLOOR FINISH |



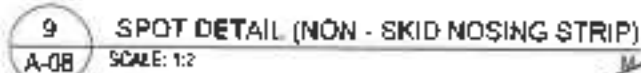
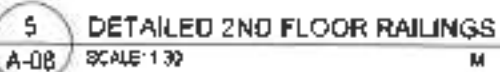
2  
A-07



3  
A-D7



1 SCHEDULE OF DOORS AND WINDOWS  
A-07 SCALE: 1:30 M





# GENERAL CONSTRUCTION NOTES

## NOTES ON BEAMS AND GIRDERS

- UNLESS OTHERWISE NOTED IN PLANS, CAMBER ALL BEAMS AND GIRDERS AT LEAST 1mm FOR EVERY 400mm OF SPAN, EXCEPT DAMPERS FOR WHICH THE CAMBER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE ENGINEER BUT IN NO CASE LESS THAN 20mm FOR EVERY 3.0 METER SPAN.
- TYPICAL BARS BENDING AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIG. B-1.

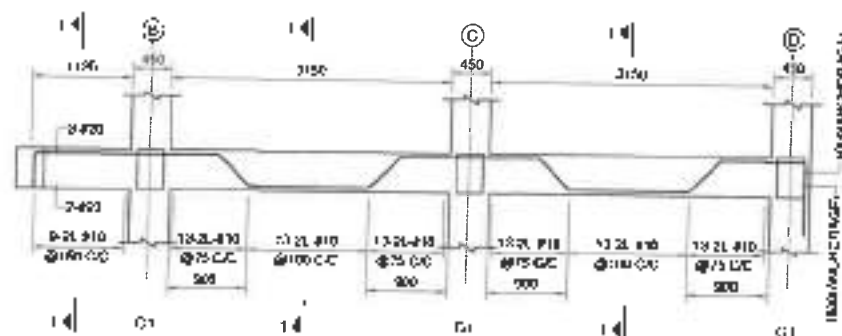
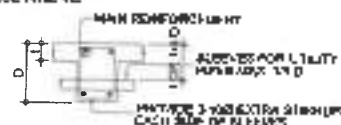


FIGURE B-1

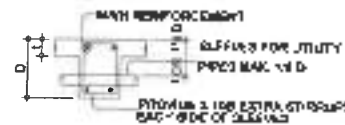
| BAR SIZE | EMBEDMENT | LAP | ANCHORAGE |
|----------|-----------|-----|-----------|
| 10mm     | 100       | 300 | 300       |
| 12mm     | 120       | 360 | 360       |
| 14mm     | 140       | 420 | 420       |
| 16mm     | 160       | 480 | 480       |
| 18mm     | 180       | 540 | 540       |
| 20mm     | 200       | 600 | 600       |

| BAR SIZE | EMBEDMENT | LAP | ANCHORAGE |
|----------|-----------|-----|-----------|
| 10mm     | 100       | 300 | 300       |
| 12mm     | 120       | 360 | 360       |
| 14mm     | 140       | 420 | 420       |
| 16mm     | 160       | 480 | 480       |
| 18mm     | 180       | 540 | 540       |
| 20mm     | 200       | 600 | 600       |

- IF THE BEAM REINFORCING BARS END IN A WALL, THE CLEAR DISTANCE FROM THE BAR TO THE PARTIAL FACE OF THE WALL IS NOT LESS THAN 20mm. EMBEDMENT LENGTH SHALL BE SHOWN IN A TABLE FOR TENSION BARS AND TABLE B FOR COMPRESSION BARS UNLESS OTHERWISE SPECIFIED IN PLANS. TOP BARS AND SHALL NOT BE SPOILED WITHIN THE COLUMN OR TWO STIRRUPS SHALL BE PROVIDED AT ALL SPICES.
- IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USED 25mm BAR SEPARATORS SPACED AT 1.0m ON CENTER ON NO CASE SHALL THERE BE MORE THAN TWO (2) SEPARATORS BETWEEN LAYERS OF BARS.
- MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS ON STEEL SHAPES SHALL BE AS SHOWN IN FIGURE B-2 UNLESS OTHERWISE.



TYP. DET. FOR SLEEVES THRU CONCRETE BEAM



TYP. DET. FOR SLEEVES THRU CONCRETE BEAM

- WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS, BEAM REINFORCING BARS SHALL BE SYMMETRICAL ABOUT THE CENTER LINE WHENEVER POSSIBLE.
- GENERALLY, LAP SPICES SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR. SPICES WHERE SO PERMITTED SHALL BE INDICATED IN TABLE B-1 AND B-2. WELDED SPICES SHALL DEVELOP IN TENSION AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPICED THEREIN.

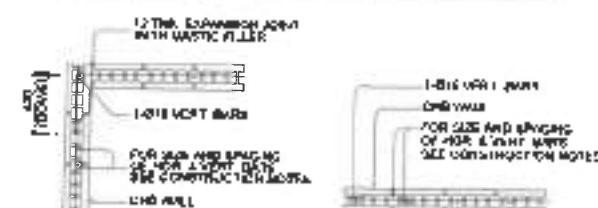
## NOTES ON CONCRETE HOLLOW BLOCK WALLS

- UNLESS OTHERWISE SHOWN IN PLANS, ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.
- PROVIDE 150mm x 30mm STIFFENER COLUMN REINFORCED WITH 4-12mm WITH 100mm @ 100mm (10mm @ 100mm) CENTER WHERE CONCRETE HOLLOW BLOCK TERMINATES AND AT EVERY 1.0m LENGTH OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN STRUCTURAL PLANS.

| BLOCK THICKNESS | REINFORCEMENT          | NOTES                                                                                                    |
|-----------------|------------------------|----------------------------------------------------------------------------------------------------------|
| 75 mm           | 10mm @ EVERY 3RD LEVEL | A. MINIMUM LAPS AT SPICES - 0.25 m                                                                       |
| 125 mm          | 10mm @ EVERY 3RD LEVEL | B. PROVIDE RIGHT ANGLE REINFORCEMENT AT CORNERS 0.30 m LONG                                              |
| 150 mm          | 10mm @ EVERY 3RD LEVEL | C. WHERE CHB OR CER. BLOCK WALL DOWELS WITH THE SAME SIZE AS VERT. OTHER REINFORCEMENT SHALL BE PROVIDED |
| 200 mm          | 10mm @ EVERY 3RD LEVEL |                                                                                                          |

## REINFORCING CONCRETE LINTEL BEAMS IN CONCRETE BLOCK WALLS

| CLEAR SPAN (m) | TOTAL LENGTH (m) | MIN. L (mm) | HEIGHT OF LINTEL (mm) | REINFORCEMENT | STIRRUPS     |
|----------------|------------------|-------------|-----------------------|---------------|--------------|
| 1.5m           | 1.8m             | 100         | 150                   | 10mm @ 200mm  | 10mm @ 200mm |
| 2.0m           | 2.4m             | 120         | 200                   | 12mm @ 200mm  | 12mm @ 200mm |
| 2.5m           | 3.0m             | 140         | 250                   | 14mm @ 200mm  | 14mm @ 200mm |
| 3.0m           | 3.6m             | 160         | 300                   | 16mm @ 200mm  | 16mm @ 200mm |
| 3.5m           | 4.2m             | 180         | 350                   | 18mm @ 200mm  | 18mm @ 200mm |
| 4.0m           | 4.8m             | 200         | 400                   | 20mm @ 200mm  | 20mm @ 200mm |



TYPICAL DETAIL FOR BEAM OR SLAB CHANGE SOFFIT

TYPICAL CONNECTION DETAIL OF R.C. WALL AT CORNERS

## NOTES ON WELDS

- USE E6018 F1 ELECTRODES FOR ALL MEMBERS WELDED.
- WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.

## NOTES ON STRUCTURAL STEEL

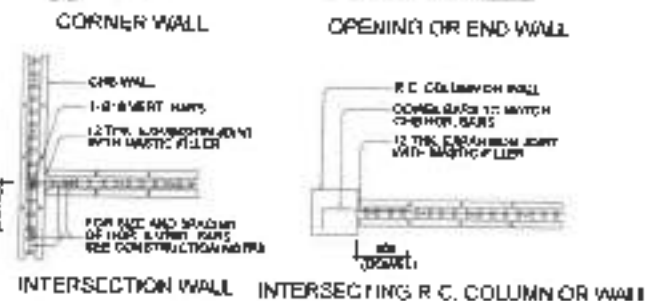
- STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISIONS OF AGC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
- ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
- ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
- UNLESS OTHERWISE SPECIFIED ALL WELDING RODS SHALL CONFORM WITH E60 F1 ELECTRODES.
- ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM A307 BOLTS.

## NOTES ON EMBEDDED PIPES

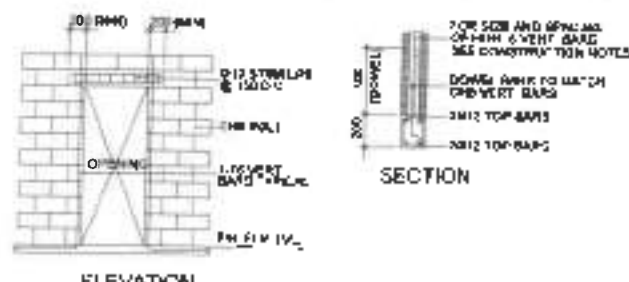
- ALL EMBEDDED PIPES FOR UTILITIES ETC. THAT PASS THRU BEAMS SHALL NOT EXCEED 30mm IN DIAMETER OR 1/3 BEAM DEPTH WHICHEVER IS LESS, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- NO PIPES SHALL BE ALLOWED TO PASS THRU BEAMS VERTICALLY.
- NO PIPES SHALL BE EMBEDDED IN CULMINATIONS.

## NOTES ON CONSTRUCTION JOINTS IN CONCRETE

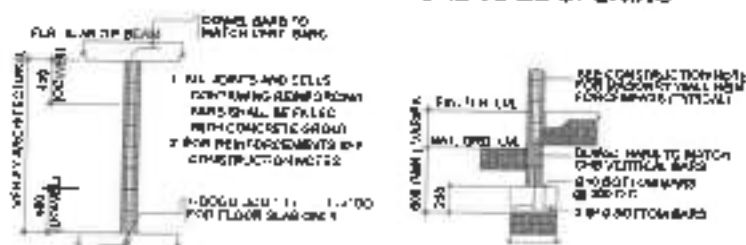
- WHERE A CONSTRUCTION JOINT IS TO BE MADE, THE SURFACE OF CONCRETE SHALL BE CLEANED AND ALL LA-TARGE AND STANDING WATER REMOVED. SHEAR KEY SHALL BE PROVIDED AT THE JOINT.



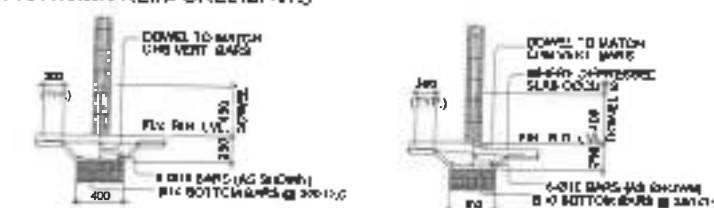
TYPICAL CONNECTION DETAIL OF MASONRY WALL



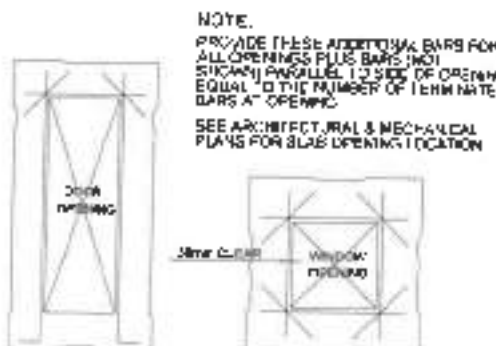
TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING



TYP. SECTION OF MASONRY PARTITION REINFORCEMENTS



TYPICAL CHB FOOTING DETAILS (WHERE APPLICABLE)



TYP. EXTERIOR WINDOW & DOOR OPENING

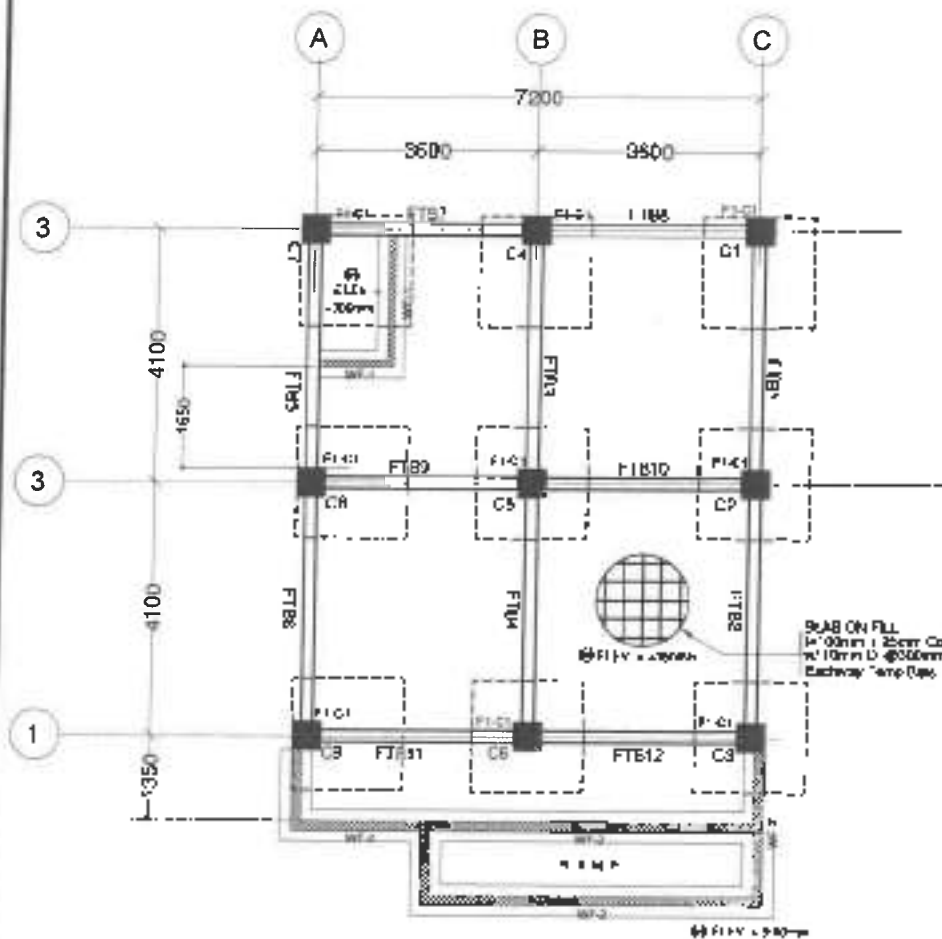
## NOTES ON CONCRETE WALLS

- ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.

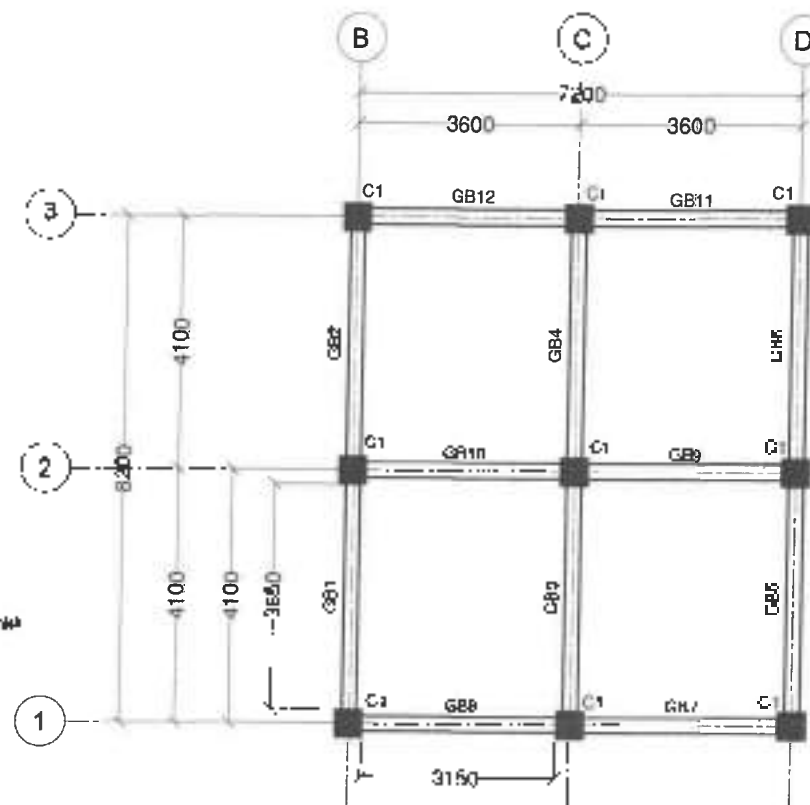
| WALL THICKNESS | HORIZONTAL REINFORCEMENT | VERTICAL REINFORCEMENT | REMARKS                                                | VERTICAL SECTION           |
|----------------|--------------------------|------------------------|--------------------------------------------------------|----------------------------|
| 100mm          | 10mm @ 200mm O.C.        | 10mm @ 200mm O.C.      | HORIZONTAL BARS AT CENTERS VERTICAL BARS STAGGERED OUT | USE BARS 10mm @ 200mm O.C. |
| 125mm          | 12mm @ 200mm O.C.        | 12mm @ 200mm O.C.      |                                                        |                            |
| 150mm          | 14mm @ 200mm O.C.        | 14mm @ 200mm O.C.      |                                                        |                            |

- REINFORCING BARS SHALL HAVE 20mm CLEAR CONCRETE COVER FROM FACE OF WALL EXCEPT FOR WALLS IN CONTACT WITH THE GROUND WHERE A MINIMUM OF 30mm SHALL BE PROVIDED AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm CLEAR.
- CURRY VERTICAL BARS AT LEAST 30mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPICES WHEN NECESSARY STOP AT 30mm BELOW TOP OF AS OR SOLID BAND WHERE THE WALL ENDS VERTICAL AND HORIZONTAL BARS SHALL BE SPICED BY LAPPING A DISTANCE EQUAL TO 30 DIAMETERS AND WELDED SECURELY WITH 150mm WIRE PROVIDED THAT SPICES IN ADJACENT BARS ARE STAGGERED AT LEAST 1.0m O.C.
- UNLESS OTHERWISE NOTED IN THE PLANS, ALL OPENINGS IN WALLS 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 2-20mm BARS FOR 225mm, 300mm, 125mm, 150mm THICK WALLS. USE 2-15mm FOR 125mm AND 20mm THICK WALLS. USE 3-12mm @ 300mm BARS. ALL WALLS SPACING SHALL HAVE VERTICAL REINFORCEMENT WITH A U-FORM LAMP STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED.

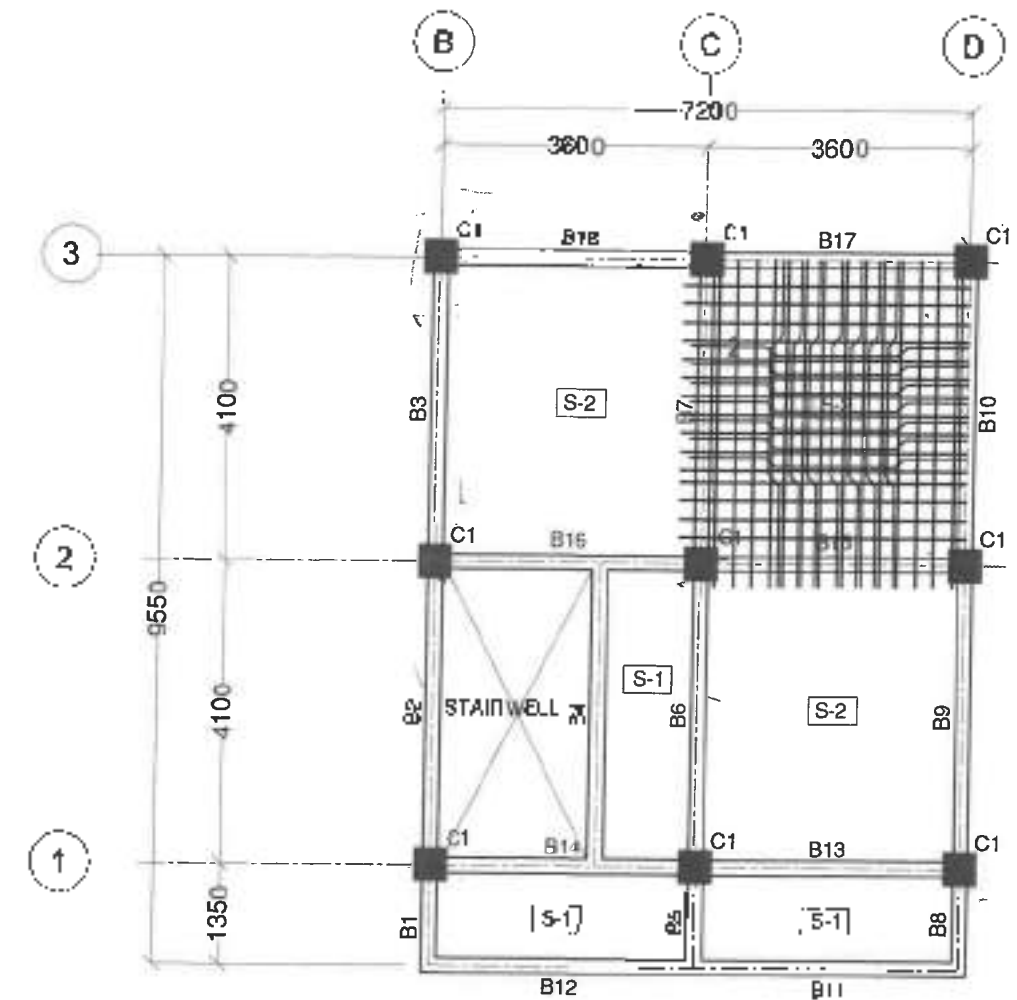
|                                                                                                                                                              |                                                                                                          |                          |                                                         |                                                        |                                                         |                                                         |                                                         |                                                         |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------|
| <p>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS<br/>REGIONAL OFFICE 16-171<br/>NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE<br/>Cebu City, Northern Samar</p> | PROJECT NAME & LOCATION                                                                                  | SHEET CONTENT            | PREPARED                                                | REVIEWED                                               | SUBMITTED                                               | RECOMMENDED                                             | APPROVED                                                | SET NO.                                                 | SHEET NO.     |
|                                                                                                                                                              | CONSTRUCTION OF MULTIPURPOSE BUILDING<br>BRGY. DAD, SAN JOSE, NORTHERN SAMAR<br>San Jose, Northern Samar | STRUCTURAL GENERAL NOTES | DESIGNED BY<br>JERRY M. VILLALBA<br>Structural Engineer | CHECKED BY<br>JERRY M. VILLALBA<br>Structural Engineer | APPROVED BY<br>JERRY M. VILLALBA<br>Structural Engineer | APPROVED BY<br>JERRY M. VILLALBA<br>Structural Engineer | APPROVED BY<br>JERRY M. VILLALBA<br>Structural Engineer | APPROVED BY<br>JERRY M. VILLALBA<br>Structural Engineer | 5-07<br>02/19 |



1 FOUNDATION PLAN  
S-03 SCALE: 1:60 M



2 GROUND BEAM FRAMING PLAN  
S-03 SCALE: 1:60 M



3 SECOND FLOOR FRAMING PLAN  
S-03 SCALE: 1:60 M



Regional Office - Samar  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE No. VIII  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
Carigara, Northern Samar

PROJECT NAME & LOCATION  
CONSTRUCTION OF MULTIPURPOSE BUILDING  
BROY. DMO, SAN JOSE, NORTHERN SAMAR  
San Jose, Northern Samar

SHEET CONTENTS  
FOUNDATION PLAN  
GROUND BEAM FRAMING PLAN  
SECOND FLOOR FRAMING PLAN

PREPARED BY  
JERRY A. LUNA  
DESIGNED BY  
JERRY A. LUNA  
CHECKED BY  
JERRY A. LUNA

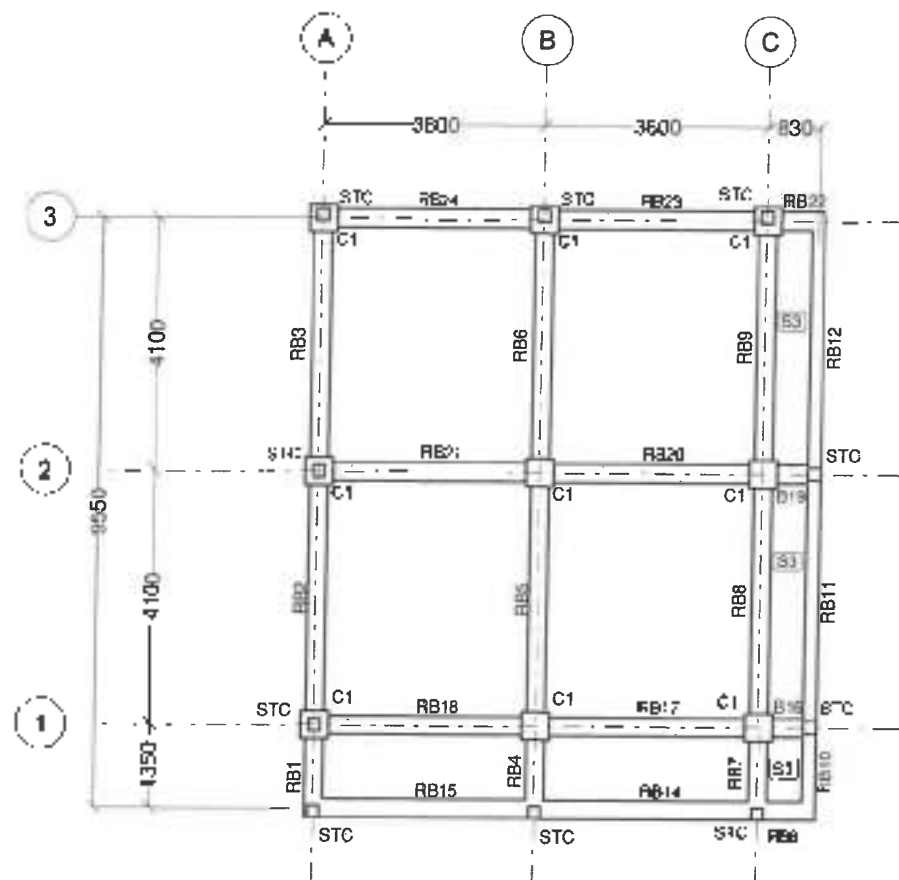
REVIEWED BY  
JERRY A. LUNA  
APPROVED BY  
JERRY A. LUNA

SUBMITTED BY  
JERRY A. LUNA  
DATE  
JERRY A. LUNA

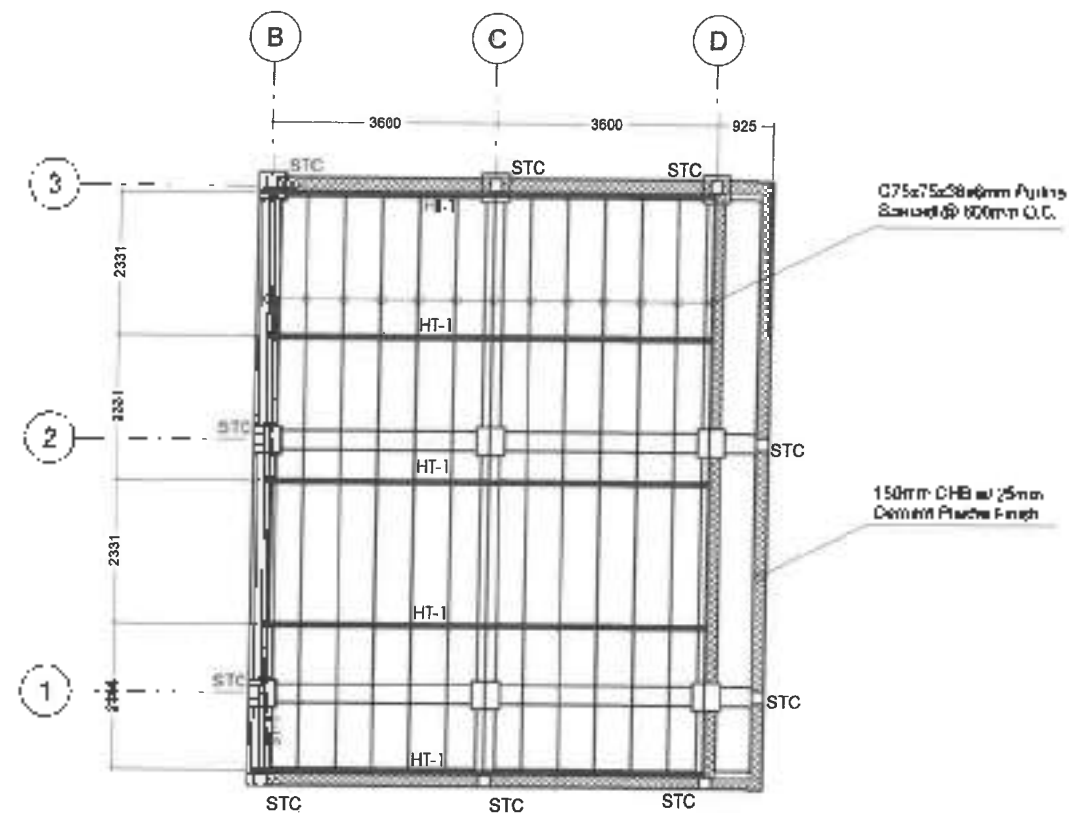
RECOMMENDED BY  
JERRY A. LUNA  
DATE  
JERRY A. LUNA

APPROVED BY  
JERRY A. LUNA  
DATE  
JERRY A. LUNA

REVISION  
S-03  
C-01  
13  
33



1 ROOF BEAM FRAMING PLAN  
S-04 SCALE: 1:30 M



2 ROOF FRAMING PLAN  
S-04 SCALE: 1:30 M



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE VI  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
Cebu City, Northern Samar

PROJECT NAME & LOCATION  
CONSTRUCTION OF MULTIPURPOSE BUILDING  
BRGY. DAD, SAN JOSE, NORTHERN SAMAR  
San Jose, Northern Samar

SET CONTENTS  
ROOF BEAM FRAMING PLAN  
ROOF FRAMING PLAN

PREPARED  
JERRY A. TORRES  
DESIGNED  
JERRY A. TORRES  
CHECKED  
JERRY A. TORRES

REVIEWED  
MEMORIAL N. BAYAN  
CHECKED  
MEMORIAL N. BAYAN

SUBMITTED  
ANDY S. SENERO  
CHECKED  
ANDY S. SENERO

RECOMMENDED  
VENI H. GARCIA  
CHECKED  
VENI H. GARCIA

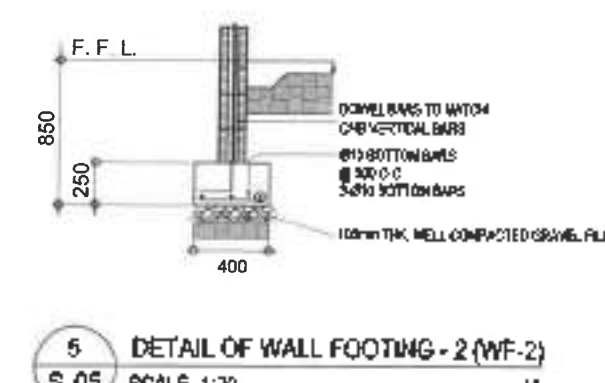
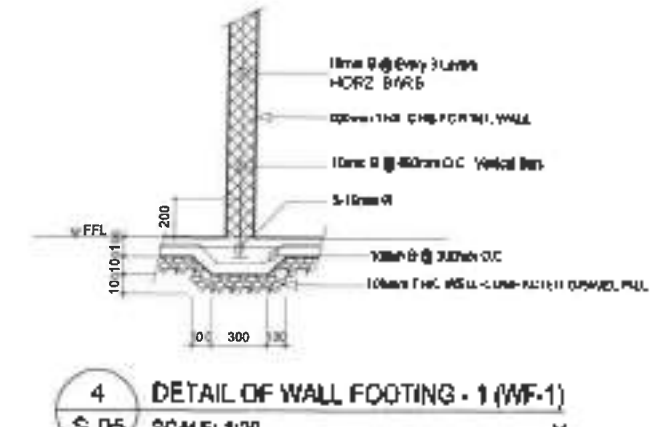
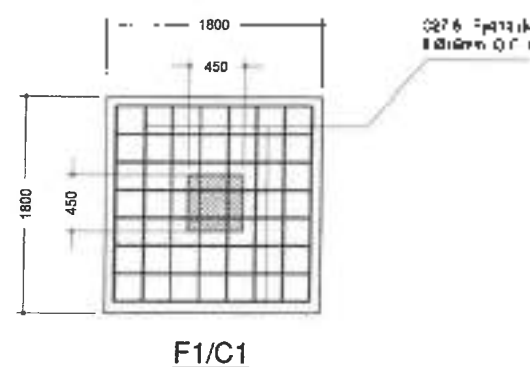
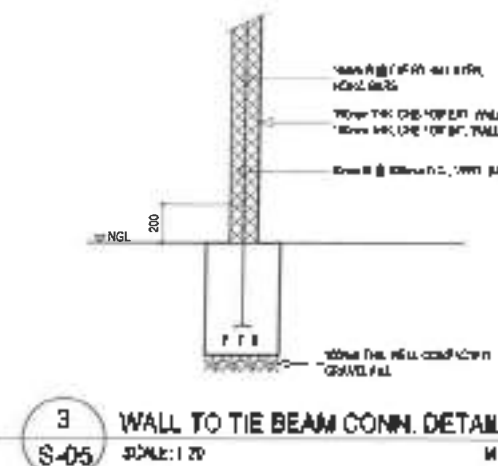
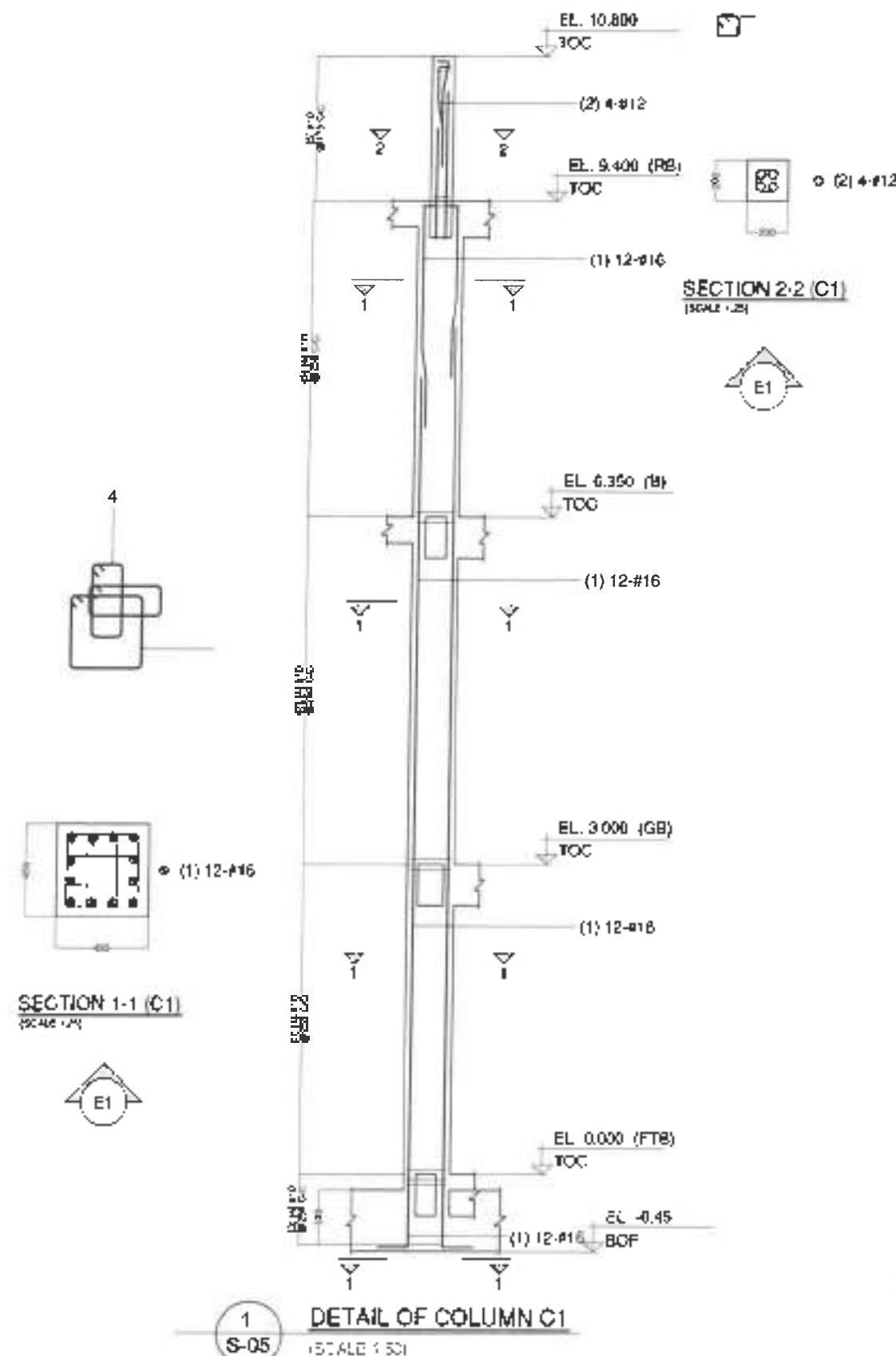
APPROVED  
ALVIN A. KENACKO  
CHECKED  
ALVIN A. KENACKO

SET NO.  
S-04  
04 10

SHEET NO.  
14  
33

| SUSPENDED SLAB SCHEDULE |     |       |                      |                     |                   |           |              |         |
|-------------------------|-----|-------|----------------------|---------------------|-------------------|-----------|--------------|---------|
| SLAB NUMBERS            | THK | TYPE  | BOTTOM REINFORCEMENT |                     | TOP REINFORCEMENT |           | DISTRIBUTION | REMARKS |
|                         |     |       | SHORT SPAN (BENT UP) | LONG SPAN (BENT UP) | SS CONT.          | LS CONT.  |              |         |
| S1                      | 125 | 1-Way | Ø12 @ 250            | ..                  | Ø12 @ 250         | ..        | Ø12 @ 250    | ..      |
| S2                      | 125 | 2-Way | Ø12 @ 250            | Ø12 @ 250           | Ø12 @ 250         | Ø12 @ 250 | Ø12 @ 250    | ..      |
| S3                      | 100 | 1-Way | ..                   | ..                  | Ø12 @ 250         | Ø12 @ 250 | Ø12 @ 250    | ..      |

| FOOTING SCHEDULE |                |        |           |                    |                  |         |
|------------------|----------------|--------|-----------|--------------------|------------------|---------|
| MARK             | DIMENSION (mm) |        |           | FOUNDING DEPTH, mm | REINFORCING BARS |         |
|                  | WIDTH          | LENGTH | THICKNESS |                    | ALONG X          | ALONG Y |
| F1               | 1800           | 1000   | 300       | 1700               | M-Ø16mm          | M-Ø16mm |



| BEAM<br>NUMBERS                | SIZE |     | BOTTOM REINFORCEMENT |          |       | TOP REINFORCEMENT |          |       | SHEAR STIRRUPS   |                   |                  |
|--------------------------------|------|-----|----------------------|----------|-------|-------------------|----------|-------|------------------|-------------------|------------------|
|                                | B    | D   | LEFT                 | MID SPAN | RIGHT | LEFT              | MID SPAN | RIGHT | LEFT             | MID SPAN          | RIGHT            |
| FT61, FT63, FT64, FT65         | 200  | 400 | 2-#16                | 3-#16    | 2-#16 | 3-#16             | 2-#16    | 3-#16 | 12-2L-#10@75 C/C | 13-2L-#10@150 C/C | 12-2L-#10@75 C/C |
| FT23, FT9                      | 200  | 400 | 2-#16                | 3-#16    | 2-#16 | 3-#16             | 2-#16    | 3-#16 | 12-2L-#10@75 C/C | 10-2L-#10@100 C/C | 12-2L-#10@75 C/C |
| FT7, FT6, FT8, FT9, FT11, FT12 | 200  | 400 | 2-#16                | 3-#16    | 2-#16 | 3-#16             | 2-#16    | 3-#16 | 12-2L-#10@75 C/C | 15-2L-#10@100 C/C | 12-2L-#10@75 C/C |
| 0                              | 200  | 400 | 2-#16                | 3-#16    | 2-#16 | 3-#16             | 2-#16    | 3-#16 | 12-2L-#10@75 C/C | 10-2L-#10@150 C/C | 12-2L-#10@75 C/C |

| BEAM<br>NUMBERS                | SIZE |     | BOTTOM REINFORCEMENT |          |       | TOP REINFORCEMENT |          |       | SHEAR STIRRLIPS  |                   |                  |
|--------------------------------|------|-----|----------------------|----------|-------|-------------------|----------|-------|------------------|-------------------|------------------|
|                                | B    | D   | LEFT                 | MID SPAN | RIGHT | LEFT              | MID SPAN | RIGHT | LEFT             | MID SPAN          | RIGHT            |
| GB1,GB2                        | 250  | 400 | 2-#16                | 3-#16    | 2-#16 | 3-#16             | 3-#16    | 3-#16 | 12-2L-#10@75 C/C | 18-2L-#10@125 C/C | 12-2L-#10@75 C/C |
| GB3                            | 250  | 400 | 2-#16                | 3-#16    | 2-#16 | 3-#16             | 3-#16    | 3-#16 | 12-2L-#10@75 C/C | 18-2L-#10@125 C/C | 12-2L-#10@75 C/C |
| GB4                            | 250  | 400 | 2-#16                | 3-#16    | 2-#16 | 3-#16             | 3-#16    | 3-#16 | 12-2L-#10@75 C/C | 16-2L-#10@125 C/C | 12-2L-#10@75 C/C |
| GB5                            | 250  | 400 | 2-#16                | 3-#16    | 3-#16 | 3-#16             | 3-#16    | 3-#16 | 12-2L-#10@75 C/C | 16-2L-#10@125 C/C | 12-2L-#10@75 C/C |
| GB6                            | 250  | 400 | 2-#16                | 3-#16    | 3-#16 | 3-#16             | 3-#16    | 3-#16 | 12-2L-#10@75 C/C | 16-2L-#10@125 C/C | 12-2L-#10@75 C/C |
| GB7,GB8,GB9,GB10,GB11,<br>GB12 | 250  | 400 | 2-#16                | 3-#16    | 2-#16 | 2-#16             | 2-#16    | 2-#16 | 12-2L-#10@75 C/C | 12-2L-#10@125 C/C | 12-2L-#10@75 C/C |

| BHAM<br>NUMBERS | SIZE |     | BOTTOM REINFORCEMENT |          |       | TOP REINFORCEMENT |          |       | SHEAR STIRRUPS   |                   |                  | B/H     | DIAGONAL | REMARKS    |
|-----------------|------|-----|----------------------|----------|-------|-------------------|----------|-------|------------------|-------------------|------------------|---------|----------|------------|
|                 | B    | D   | LEFT                 | MID SPAN | RIGHT | LEFT              | MID SPAN | RIGHT | LEFT             | MID SPAN          | RIGHT            |         |          |            |
| B1              | 200  | 400 | 2-#16                | 3-#18    | 2-#18 | 3-#16             | 2-#16    | 3-#16 | 5-2L-#10@175 C/C | -                 | 5-2L-#10@175 C/C | -       | -        | CANTILEVER |
| B2,B3           | 200  | 400 | 2-#20                | 3-#16    | 2-#20 | 3-#16             | 2-#20    | 3-#16 | 12-2L-#10@75 C/C | 20-2L-#10@100 C/C | 12-2L-#10@75 C/C | -       | -        | -          |
| B4              | 200  | 250 | 2-#18                | 3-#16    | 2-#16 | 3-#16             | 2-#16    | 3-#16 | 19-2L-#10@75 C/C | 17-2L-#10@75 C/C  | 19-2L-#10@75 C/C | -       | -        | -          |
| B5              | 300  | 400 | 2-#16                | 3-#16    | 3-#16 | 3-#16             | 4-#16    | 3-#16 | 4-2L-#10@200 C/C | -                 | 4-2L-#10@200 C/C | -       | -        | CANTILEVER |
| B6,B7,B8,B10    | 300  | 400 | 2-#16                | 3-#16    | 2-#16 | 3-#16             | 4-#16    | 3-#16 | 12-2L-#10@75 C/C | 20-2L-#10@100 C/C | 12-2L-#10@75 C/C | -       | -        | -          |
| B9              | 300  | 400 | 3-#18                | 3-#16    | 3-#16 | 3-#16             | 4-#18    | 3-#16 | 5-2L-#10@175 C/C | -                 | 5-2L-#10@175 C/C | -       | -        | CANTILEVER |
| B11,B12         | 200  | 250 | 2-#16                | 3-#16    | 2-#16 | 3-#16             | 2-#16    | 3-#16 | 17-2L-#10@75 C/C | 16-2L-#10@75 C/C  | 17-2L-#10@75 C/C | 2-#18EF | -        | -          |
| B13,B15,B16     | 200  | 400 | 2-#16                | 3-#16    | 2-#16 | 3-#16             | 2-#16    | 3-#16 | 12-2L-#10@75 C/C | 15-2L-#10@100 C/C | 12-2L-#10@75 C/C | -       | -        | -          |
| B14,B18         | 200  | 400 | 2-#16                | 3-#16    | 2-#16 | 3-#16             | 2-#16    | 3-#16 | 22-2L-#10@75 C/C | 15-2L-#10@100 C/C | 12-2L-#10@75 C/C | -       | -        | -          |
| B17             | 200  | 400 | 2-#16                | 3-#16    | 2-#16 | 3-#16             | 2-#16    | 3-#16 | 12-2L-#10@75 C/C | 15-2L-#10@100 C/C | 12-2L-#10@75 C/C | -       | -        | -          |

| BEAM<br>NUMBERHS    | SIZE |     | BOTTOM REINFORCEMENT |          |       | TOP REINFORCEMENT |          |       | SHEAR STIRRUPS   |                   |                  | SPR     | REMARKS      |
|---------------------|------|-----|----------------------|----------|-------|-------------------|----------|-------|------------------|-------------------|------------------|---------|--------------|
|                     | B    | H   | LEFT                 | MID SPAN | RIGHT | LEFT              | MID SPAN | RIGHT | LEFT             | MID SPAN          | RIGHT            |         |              |
| RB1,RB4             | 200  | 250 | 2-#16                | 3-#16    | 2-#18 | 3-#18             | 2-#15    | 3-#16 | 5-2L-#10@100 C/C | 3-2L-#10@100 C/C  | 5-2L-#10@100 C/C | -       | CANTILEVERED |
| RB2,RB5,RB8         | 200  | 350 | 2-#16                | 3-#16    | 2-#18 | 3-#18             | 2-#18    | 3-#16 | 11-2L-#10@75 C/C | 22-2L-#10@100 C/C | 11-2L-#10@75 C/C | -       | -            |
| RB3,RB6,RB9         | 200  | 350 | 2-#16                | 3-#18    | 2-#16 | 3-#18             | 2-#18    | 3-#16 | 11-2L-#10@75 C/C | 22-2L-#10@100 C/C | 11-2L-#10@75 C/C | -       | -            |
| RB7                 | 200  | 250 | 2-#16                | 3-#18    | 2-#18 | 3-#16             | 2-#18    | 3-#18 | 6-2L-#10@75 C/C  | 4-2L-#10@75 C/C   | 6-2L-#10@75 C/C  | 2-#18EF | CANTILEVERED |
| RB10                | 200  | 250 | 2-#18                | 3-#16    | 2-#16 | 3-#16             | 2-#16    | 3-#16 | 7-2L-#10@75 C/C  | 5-2L-#10@75 C/C   | 7-2L-#10@75 C/C  | 2-#18EF | -            |
| RB11,RB12           | 200  | 200 | 2-#12                | 3-#12    | 2-#12 | 2-#12             | 2-#12    | 3-#12 | 10-2L-#10@75 C/C | 17-2L-#10@75 C/C  | 19-2L-#10@75 C/C | -       | -            |
| RB13                | 200  | 250 | 2-#12                | 3-#12    | 2-#12 | 3-#12             | 2-#12    | 3-#12 | 5-2L-#10@75 C/C  | 3-2L-#10@75 C/C   | 5-2L-#10@75 C/C  | 2-#10EF | CANTILEVERED |
| RB14                | 200  | 250 | 2-#12                | 3-#12    | 2-#12 | 3-#12             | 2-#12    | 3-#12 | 17-2L-#10@75 C/C | 15-2L-#10@75 C/C  | 17-2L-#10@75 C/C | 2-#10EF | -            |
| RB15                | 200  | 250 | 2-#12                | 3-#12    | 2-#12 | 3-#12             | 2-#12    | 3-#12 | 17-2L-#10@75 C/C | 15-2L-#10@75 C/C  | 17-2L-#10@75 C/C | -       | -            |
| RB16,RB19           | 200  | 250 | 2-#12                | 3-#12    | 2-#12 | 3-#12             | 2-#12    | 3-#12 | 4-2L-#10@75 C/C  | 2-2L-#10@75 C/C   | 4-2L-#10@75 C/C  | 2-#12EF | CANTILEVERED |
| RB17,RB20           | 200  | 350 | 2-#12                | 3-#12    | 2-#12 | 3-#12             | 2-#12    | 3-#12 | 11-2L-#10@75 C/C | 7-2L-#10@100 C/C  | 11-2L-#10@75 C/C | -       | -            |
| RB18,RB21,RB22,RB24 | 200  | 350 | 2-#12                | 3-#12    | 2-#12 | 3-#12             | 2-#12    | 3-#12 | 11-2L-#10@75 C/C | 17-2L-#10@100 C/C | 11-2L-#10@75 C/C | -       | -            |
| RB22                | 200  | 250 | 2-#18                | 3-#18    | 2-#16 | 3-#18             | 2-#18    | 3-#16 | 4-2L-#10@75 C/C  | 2-2L-#10@75 C/C   | 4-2L-#10@75 C/C  | 2-#10EF | CANTILEVERED |

NOTES:

1. RE = BONDING ELEMENT AS PER ISOP C-01 - 2014. PROVIDE CONCRETE REINFORCEMENT ACROSS ENTIRE HEIGHT OF WALL IN THE REINFORCED C. FLIGHT
2. ZL = SPECIAL CONFINEMENT ZONE AS PER ISOP C-01 - 2013.  
ZC = REINFORCED ZONES AS PER ISOP C-01 - 2013
3. 1M - STEEL GRADE FOR MAIN REINFORCEMENT
4. 15 - STEEL GRADE FOR SURFACE REINFORCEMENT

| ROOF BEAM     |  | C25 : F <sub>yk</sub> 235 , COVER = 50MM |
|---------------|--|------------------------------------------|
| 9.4M          |  |                                          |
| TO            |  | 100x100<br>#10 @ 175                     |
| 10 BM         |  |                                          |
|               |  | 4 #12                                    |
| 6.35M         |  | C25 : F <sub>yk</sub> 235 , COVER = 50MM |
| TO            |  |                                          |
|               |  | 100x100<br>#10 @ 250                     |
| 9.4M          |  |                                          |
|               |  | 12 #16                                   |
| 3M            |  | C25 : F <sub>yk</sub> 235 , COVER = 50MM |
| TO            |  |                                          |
|               |  | 100x100<br>#10 @ 250                     |
| 6.35M         |  |                                          |
|               |  | 12 #16                                   |
| 0M            |  | C25 : F <sub>yk</sub> 235 , COVER = 50MM |
| TO            |  |                                          |
|               |  | 100x100<br>#10 @ 250                     |
| 3M            |  |                                          |
|               |  | 12 #16                                   |
| 0.45M         |  | C25 : F <sub>yk</sub> 235 , COVER = 50MM |
| TO            |  |                                          |
|               |  | 100x100<br>#10 @ 250                     |
| 0M            |  |                                          |
|               |  | 12 #16                                   |
| COLUMN MARKED |  |                                          |



PROJECT NAME & LOCATION  
CONSTRUCTION OF MULTIPURPOSE BUILDING  
BRGY. DAO, SAN JOSE, NORTHERN SAMAR  
San Jose, Northern Samar

STATE: CCH<sub>8</sub> NFB  
BEAR SCHEDULE  
437, UMM BMTYMA, 1, SCHEDULE

Approved \_\_\_\_\_  
 JERRY J. ALBINA  
 Registrar, District of Columbia  
 Date: \_\_\_\_\_  
 Designated \_\_\_\_\_  
 JERRY J. ALBINA  
 Registrar, District of Columbia

RECEIVED  
  
 GERALD R. EGAN  
 JAMES EARL RAYMOND PERSON SECTION

SUBMITTED:  
  
 NANCY S. EBERLE  
 On 21, November 2010, at 10:10 AM

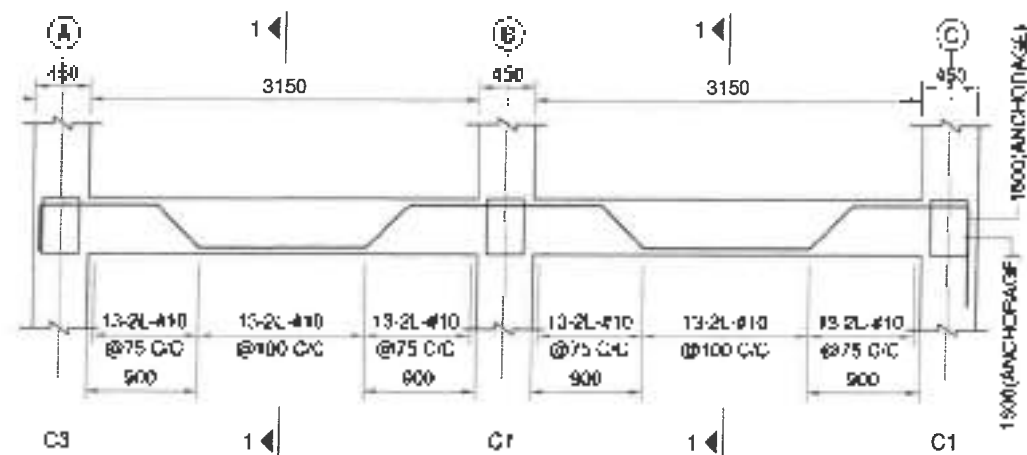
RECEIVED

APPROVED

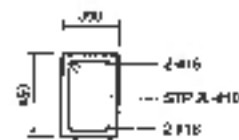


ALVIN A. KRIACO  
FACULTY - 1-3-75

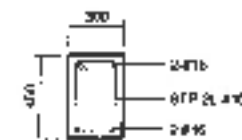
|                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 55" x 60"                                                                             | 54" x 61" 1/4"                                                                        |
|  |  |



1 TYPICAL BEAM DETAIL  
S-08 SCALE: 1:30 M

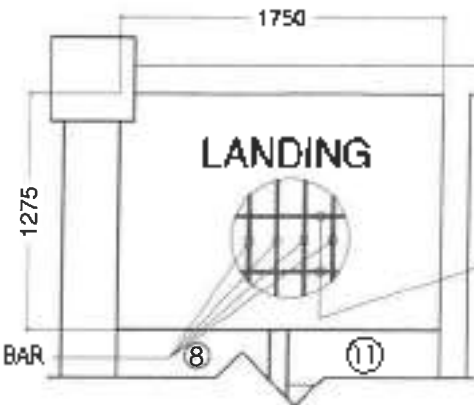


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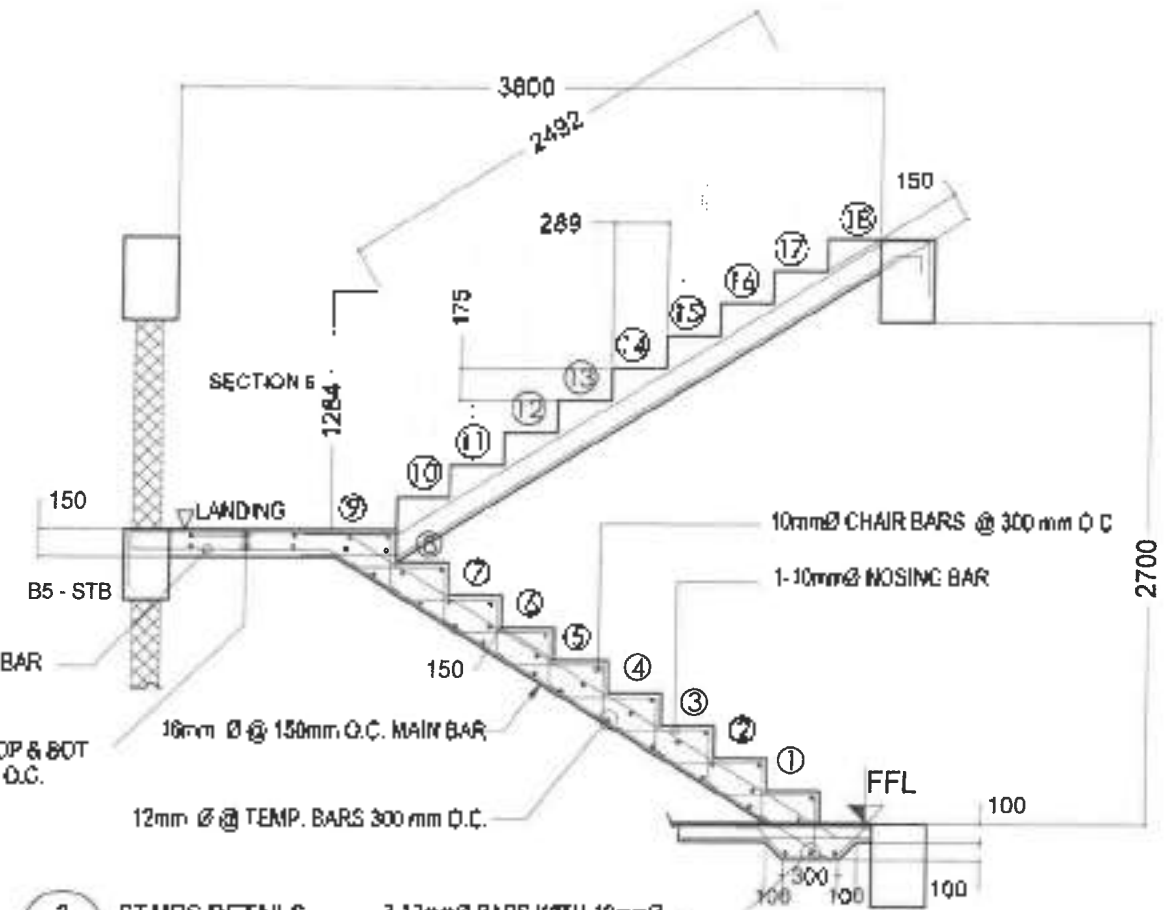


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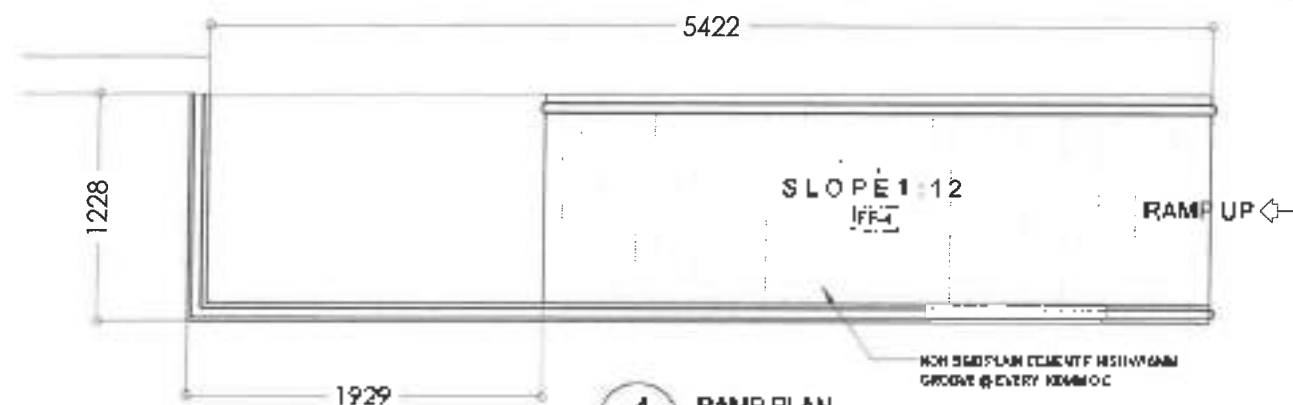
2 TYPICAL BEAM SECTION  
S-08 SCALE: 1:20 M



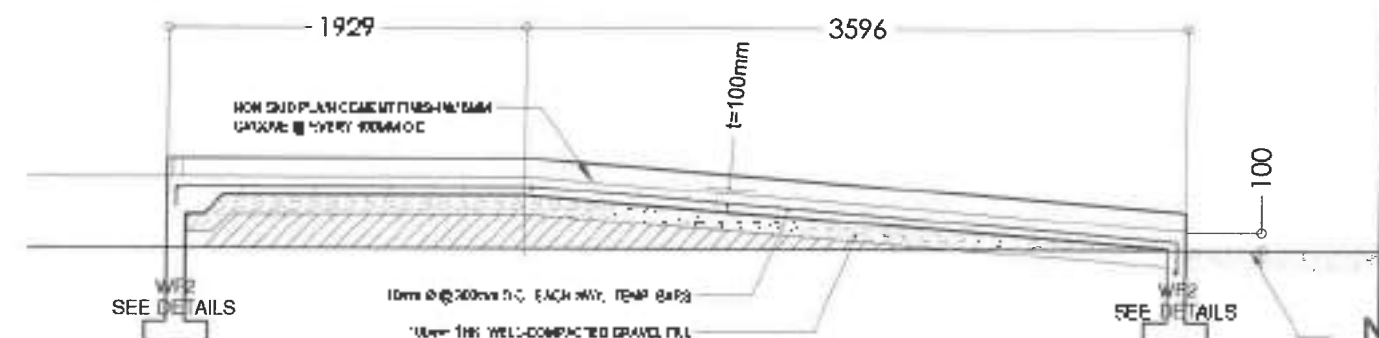
3 STAIRS DETAILS  
S-08 SCALE: 1:20 M



4 RAMP PLAN  
S-08 SCALE: 1:20 M



5 RAMP DETAILED SECTION  
S-08 SCALE: 1:20 M



| MARK | FLOOR FINISH DESCRIPTION                            |
|------|-----------------------------------------------------|
| FF-1 | PLAIN CEMENT FLOOR FINISH WITH FLOOR MARKING        |
| FF-2 | 200 x 200 mm x 10 mm ED UNGLAZED TILES FLOOR FINISH |
| FF-3 | 100 x 100 mm x 10 mm ED UNGLAZED TILES FLOOR FINISH |



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REGIONAL OFFICE No. VII  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
Cebu, Northern Samar

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CONSTRUCTION OF MULTIPURPOSE BUILDING  
BRGY. DAD, SAN JOSE, NORTHERN SAMAR  
San Jose, Northern Samar

SHEET CONTENTS  
TYPICAL BEAM DETAIL  
TYPICAL BEAM SECTION  
STAIRS DETAILS  
RAMP PLAN  
RAMP DETAILED SECTION

DESIGNED BY  
JEFF P. VILLERA  
DATE: 10/08/2018

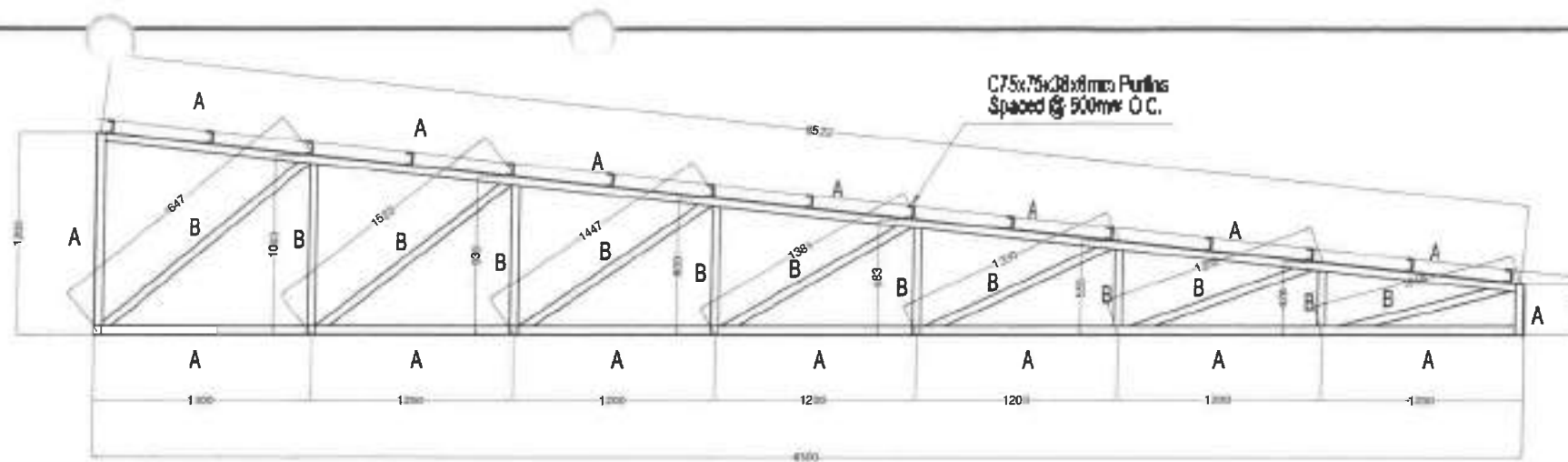
REVIEWED BY  
MAR DONALD H. EMAN  
DATE: 10/08/2018

SUBMITTAL BY  
ANDY S. SORERO  
DATE: 10/08/2018

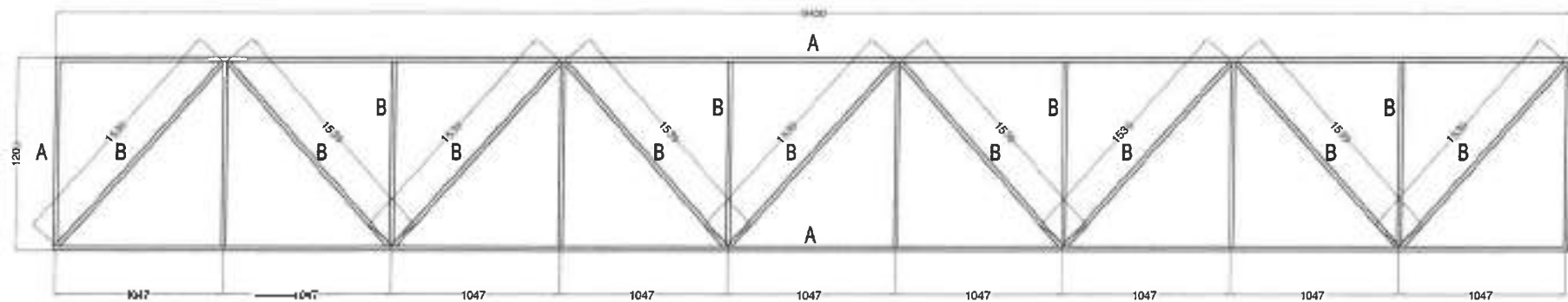
RECOMMENDED BY  
VIVIANO NIACIO  
DATE: 10/08/2018

APPROVED BY  
ALVIN A. IGNACIO  
DATE: 10/08/2018

SHEET No.  
S-08  
17  
33



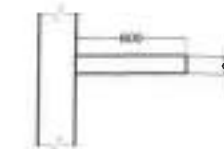
1 DETAILED ELEVATION OF TRUSS (HT-1)  
S-09 SCALE: 1:20 M



8 DETAILED ELEVATION OF STRUT (ST-1)  
S-09 SCALE: 1:20 M



6 PURLINS CLEAT DETAILS  
S-09 SCALE: NTS



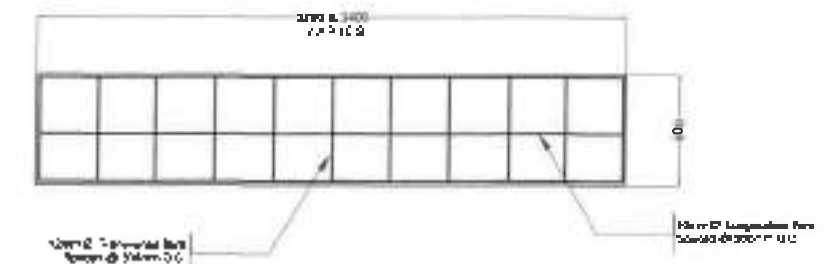
7 SUN BREAKER TYPICAL ELEVATION  
S-09 SCALE: 1:20 M

### TRUSS SCHEDULE

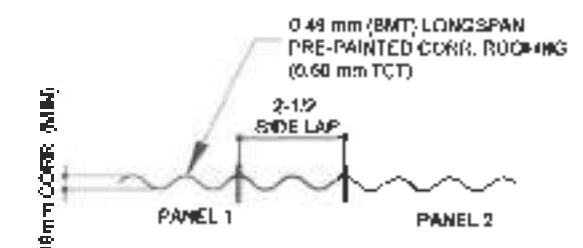
| TRUSS SCHEDULE |                        |               |                |  |  |
|----------------|------------------------|---------------|----------------|--|--|
| MARK           | TRUSS MEMBERS<br>SIZES | SIZE OF WELDS |                |  |  |
|                |                        | THICKNESS     | LENGTH, mm     |  |  |
| L <sub>1</sub> | L <sub>2</sub>         |               | L <sub>3</sub> |  |  |
| A              | 2 ∠ 75x75x6.35mm       | 6.35mm        | FULL WELD      |  |  |
| B              | ∠ 50x50x6.35mm         | 6.35mm        | FULL WELD      |  |  |

### STRUT SCHEDULE

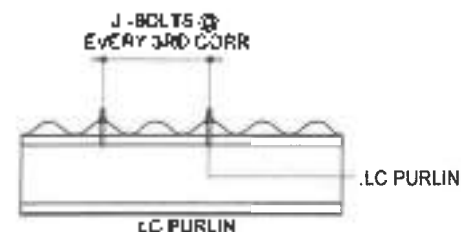
| STRUT SCHEDULE |                     |               |                |                |                |
|----------------|---------------------|---------------|----------------|----------------|----------------|
| MARK           | STRUT MEMBERS SIZES | SIZE OF WELDS |                |                |                |
|                |                     | THICKNESS     | LENGTH, mm     |                |                |
|                |                     |               | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> |
| A              | 2 ∠ 75x75x6.35mm    | 6.35mm        | FULL WELD      |                |                |
| B              | ∠ 50x50x6.35mm      | 6.35mm        | FULL WELD      |                |                |



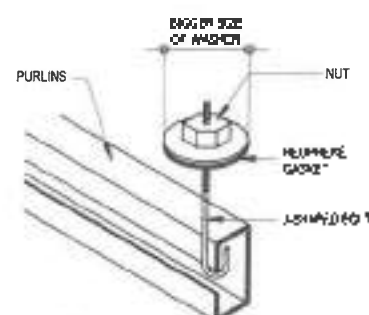
8 SUN BREAKER REBAR DETAILS  
S-09 SCALE: 1:20 M



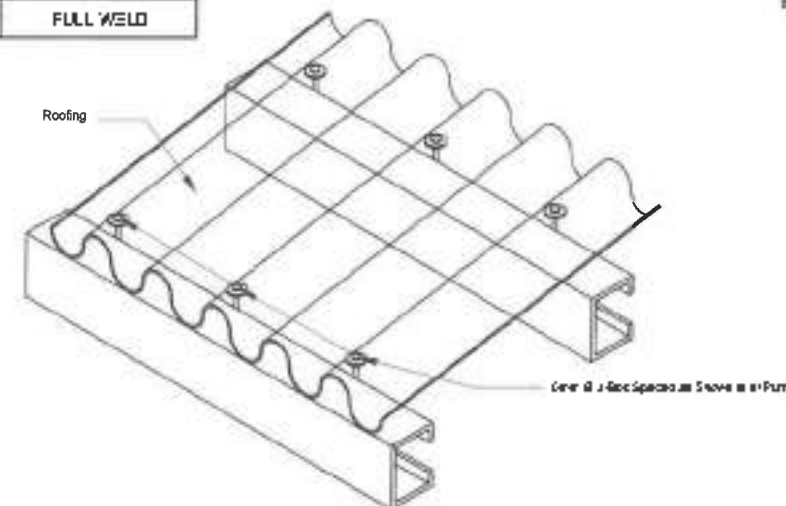
5 ROOF PANEL SIDE LAP DETAIL  
S-09 SCALE: NTS



2 J-BOLT SPACING  
S-09 SCALE: NTS



3 ROOFING FIXER  
S-09 SCALE: NTS



4 ISOMETRIC VIEW OF CONNECTION OF ROOFING TO PURLINS  
S-09 SCALE: NTS



Republic of the Philippines  
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NORTHERN SAMAR FIRST  
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Cebu City, Marikina City

PROJECT NAME & LOCATION

CONSTRUCTION OF MULTIPURPOSE BUILDING  
BRGY. OMO, SAN JOSE, NORTHERN SAMAR  
San Jose, Northern Samar

PROJECT CONTENTS

DETAILED ELEVATION OF TRUSS (HT-1)  
TRUSS SCHEDULE  
ROOF PANEL SIDE LAP DETAIL  
ROOFING FIXER  
PURLINS CLEAT DETAILS  
J-BOLT SPACING  
ISOMETRIC VIEW OF CONNECTION OF ROOFING TO PURLINS  
OCTAGONAL ELEVATION OF STRUT (ST-1)

DESIGNED BY

JEFF F. BERNARDO  
FACULTY

APPROVED BY

ALVIN A. AGNACIO  
SUPV. CHIEF OF PROJECTS/SECTION

SUBMITTED BY

ANDY B. ENERO  
CHIEF PLUMBING SECTION

RECOMMENDED BY

VIVIAN M. BRAGA  
CHIEF PLUMBING SECTION

APPROVED BY

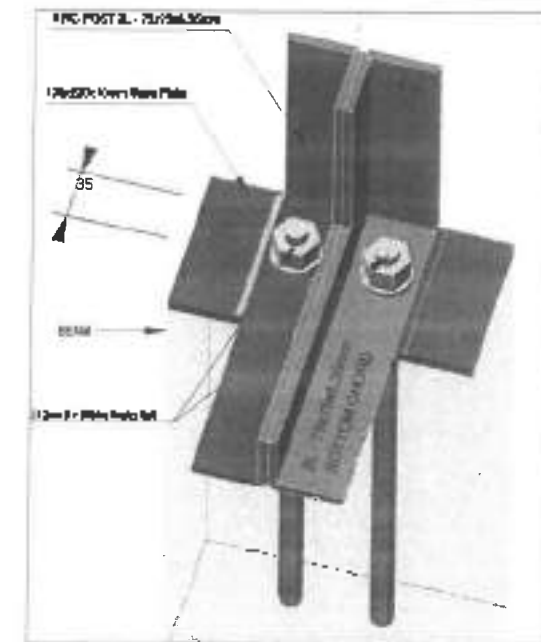
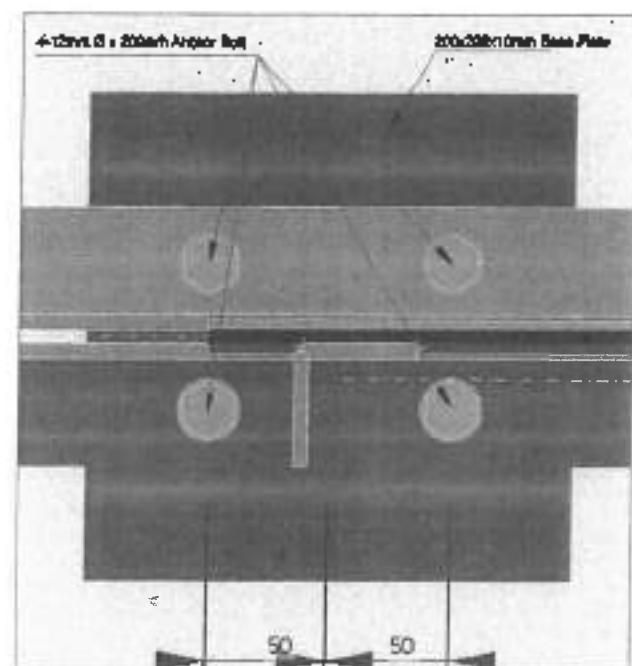
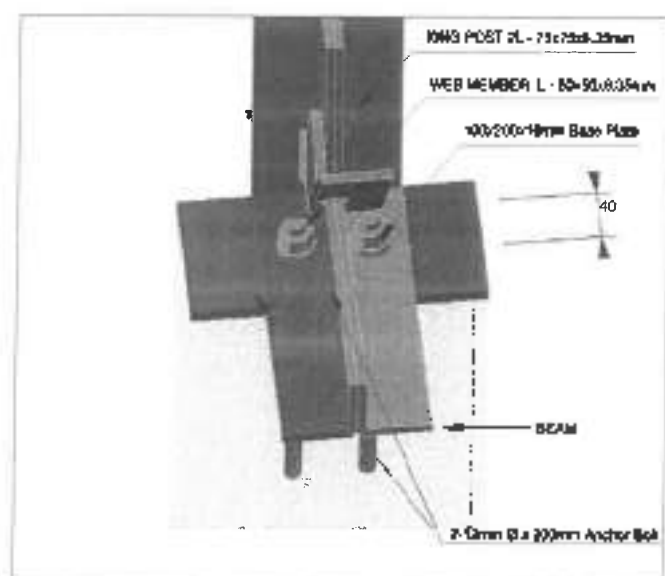
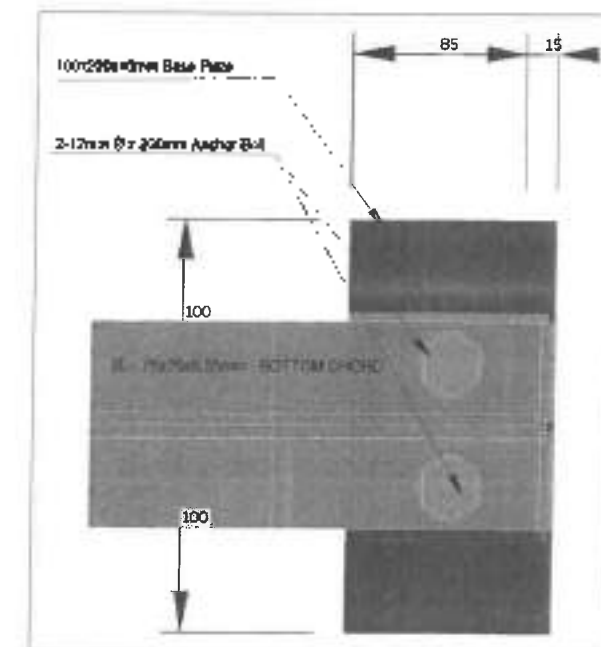
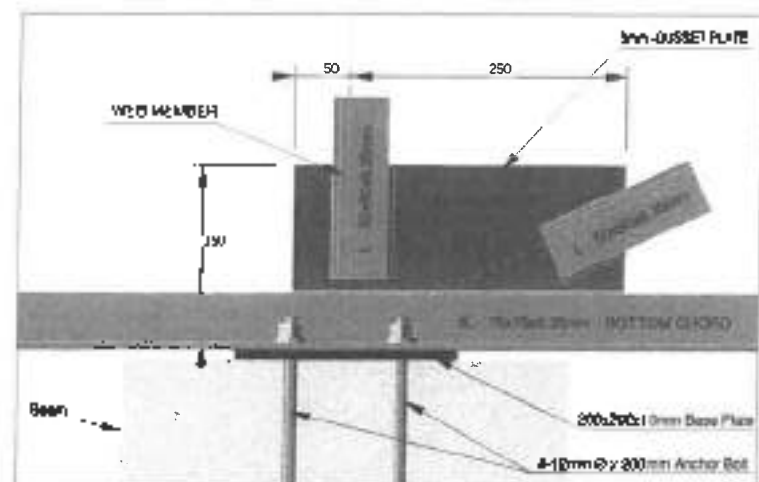
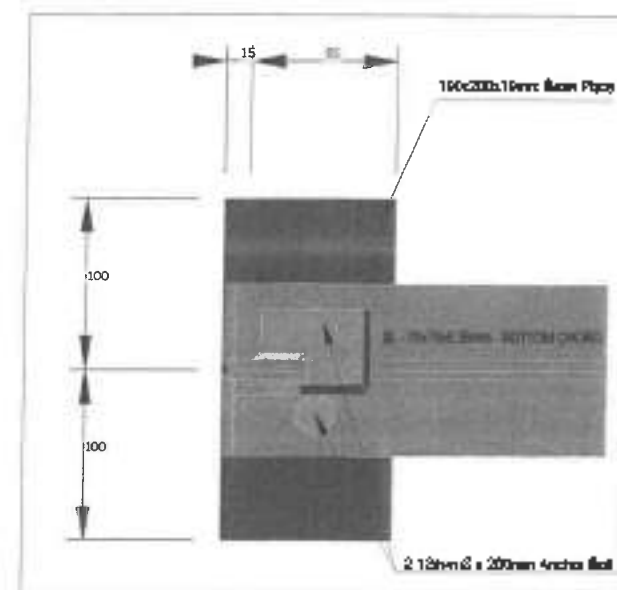
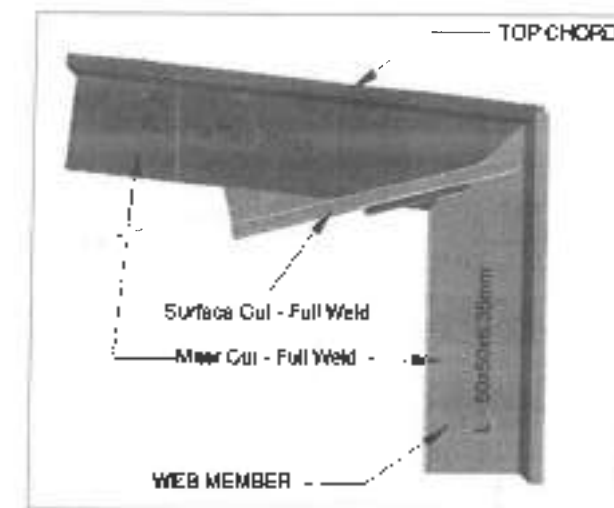
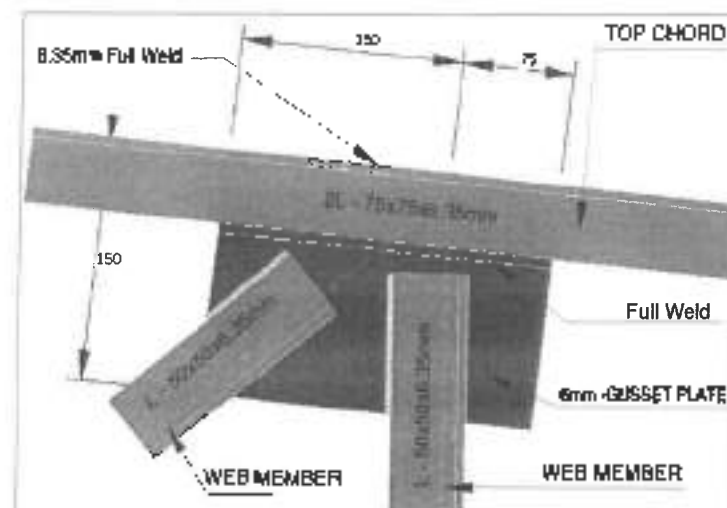
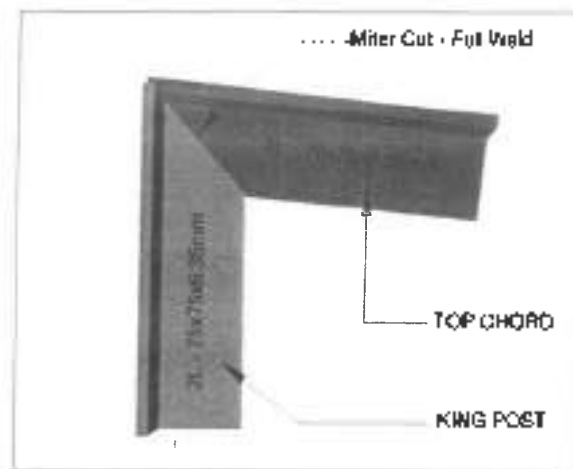
ALVIN A. AGNACIO  
SUPV. CHIEF OF PROJECTS/SECTION

SET No.

S-09  
08/10

DRAWN No.

15  
33



1 TRUSS DETAILED CONNECTION  
S-00 SCALE: NTS

## GENERAL NOTES

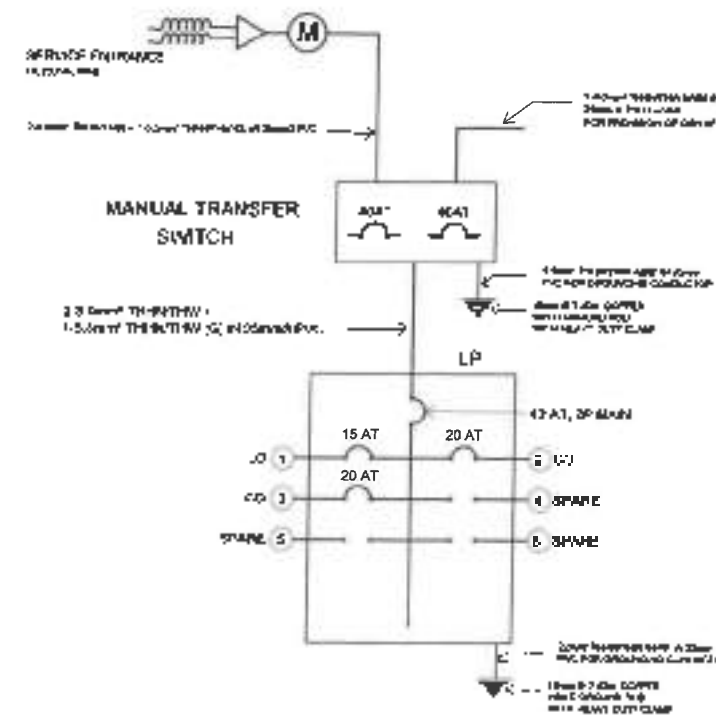
1. ALL ELECTRICAL WORKS SHALL COMPLY WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
2. THE ELECTRICAL SERVICE POWER SHALL BE 1-PHASE, 2 WIRE, 220 AC, 60Hz.
3. WIRING METHOD SHALL BE AS FOLLOWS:  
RIGID STEEL CONDUIT OR POLYVINYL CHLORIDE CONDUIT SCHEDULE 40 SHALL BE USED AS SPECIFIED PLAN.
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THIN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUNS SHALL BE 3 mm<sup>2</sup> AND INSULATED FOR HOMERUNS LIKEWISE, ALL CONDUCTORS SHALL BE COLOR CODED. SMALLEST RACEWAYS SHALL BE 15mm<sup>2</sup> (NOMINAL).
5. ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 18 DEEP TYPE.
6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED FOR THE PARTICULAR LOCATION AND USAGE.
7. EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
8. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:
 

|                       |                           |
|-----------------------|---------------------------|
| a. LIGHT SWITCH       | 1400mm ABOVE FINISH FLOOR |
| b. CONVENIENCE OUTLET | 300mm ABOVE FINISH FLOOR  |
| c. PANEL BOARD        | 1800mm ABOVE FINISH FLOOR |
9. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

## LEGEND:

### SYMBOL DESCRIPTION

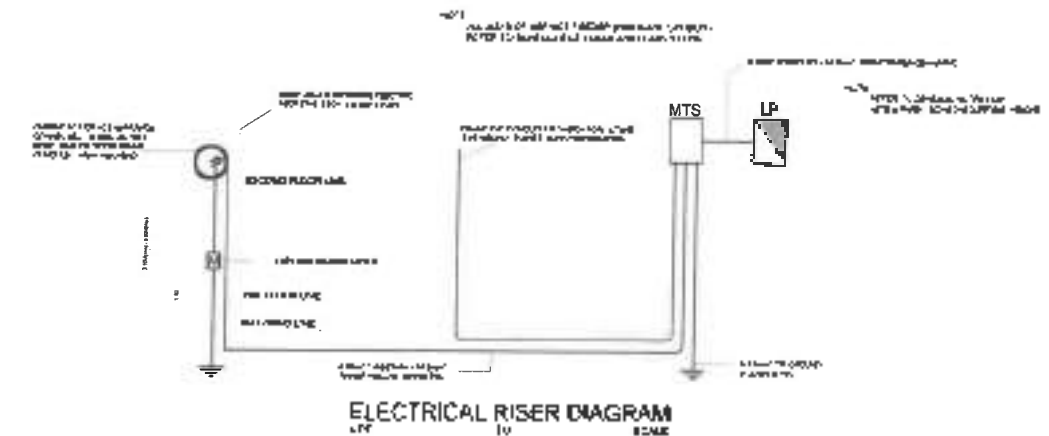
|  |                                                           |
|--|-----------------------------------------------------------|
|  | Service Entrance                                          |
|  | Service Motor                                             |
|  | Manual Transfer Switch                                    |
|  | Lighting & Power Panel Board                              |
|  | Circuit Breaker, Rating as Indicated                      |
|  | Raceway Conduit Concealed Under Floor                     |
|  | Raceway Conduit in Ceiling                                |
|  | Circuit Homerun Direct to Panel Board                     |
|  | 1-Gang Switch                                             |
|  | 2-Gang Switch                                             |
|  | 3-Gang Switch                                             |
|  | Three-way Switch                                          |
|  | 18 Watts LED Bulb in 4" Dia. Pinlight Housing w/ E27 base |
|  | 7 Watts LED Bulb in 4" Dia. Pinlight Housing w/ E27 base  |
|  | Duplex Universal Outlet                                   |
|  | Duplex Universal Outlet (Weatherproof)                    |



DESCRIPTION: LP  
MOUNTING SURFACE: FLUSH MOUNTED  
ENCLOSURE: NEMA 1

## SCHEDULE OF LOADS

| CKI NO                                                                                                                                                                                                                                                                                                                                                                                                   | LOAD DESCRIPTION   | QTY | VA LOAD | VOLT | CIRCUIT BREAKER |    |    |      | WIRE AND CONDUIT SIZE                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|---------|------|-----------------|----|----|------|-------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                          |                    |     |         |      | POLE            | AT | 4" | WIRE |                                                                                                                   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                        | LIGHTING OUTLET    | 32  | 878     | 277  | 2               | 15 | 40 | 10   | 1.5mm <sup>2</sup> THHN STRANDED WIRE + 1.5mm <sup>2</sup> THHN-01 STRANDED WIRE in 15mm <sup>2</sup> PVC CONDUIT |
| 2                                                                                                                                                                                                                                                                                                                                                                                                        | CONVENIENCE OUTLET | 7   | 1020    | 277  | 2               | 20 | 35 | 10   | 2.5mm <sup>2</sup> THHN STRANDED WIRE + 2.5mm <sup>2</sup> THHN-01 STRANDED WIRE in 15mm <sup>2</sup> PVC CONDUIT |
| 3                                                                                                                                                                                                                                                                                                                                                                                                        | CONVENIENCE OUTLET | 9   | 1179    | 277  | 2               | 20 | 53 | 10   | 2.5mm <sup>2</sup> THHN STRANDED WIRE + 2.5mm <sup>2</sup> THHN-01 STRANDED WIRE in 15mm <sup>2</sup> PVC CONDUIT |
| 4                                                                                                                                                                                                                                                                                                                                                                                                        | SPARE              | -   | -       | -    | -               | -  | -  | -    | -                                                                                                                 |
| 5                                                                                                                                                                                                                                                                                                                                                                                                        | SPARE              | -   | -       | -    | -               | -  | -  | -    | -                                                                                                                 |
| 6                                                                                                                                                                                                                                                                                                                                                                                                        | SPARE              | -   | -       | -    | -               | -  | -  | -    | -                                                                                                                 |
| TOTAL                                                                                                                                                                                                                                                                                                                                                                                                    |                    |     | 2077    |      |                 |    |    |      |                                                                                                                   |
| TOTAL LOADS: 2077 VA<br>1. 2.5mm <sup>2</sup> THHN STRANDED WIRE + 1.5mm <sup>2</sup> THHN-01 STRANDED WIRE in 15mm <sup>2</sup> PVC CONDUIT AND USE RATING: 20, 200 Amps Phase, 120V FOR MAIN CIRCUIT BREAKER<br>2. 2.5mm <sup>2</sup> THHN STRANDED WIRE + 1.5mm <sup>2</sup> THHN-01 STRANDED WIRE in 15mm <sup>2</sup> PVC CONDUIT AND USE RATING: 20, 200 Amps Phase, 120V FOR MAIN CIRCUIT BREAKER |                    |     |         |      |                 |    |    |      |                                                                                                                   |



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE NO. 1  
**NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE**  
Cebu, Northern Samar

PROJECT NAME & LOCATION  
**Construction of Multi-Purpose Building,  
Barangay Dao, San Jose, Northern Samar**

SHEET CONTENTS  
GENERAL NOTES  
ELECTRICAL RISER DIAGRAM

DESIGNED  
  
MARCOY C. CORICO  
Engineer

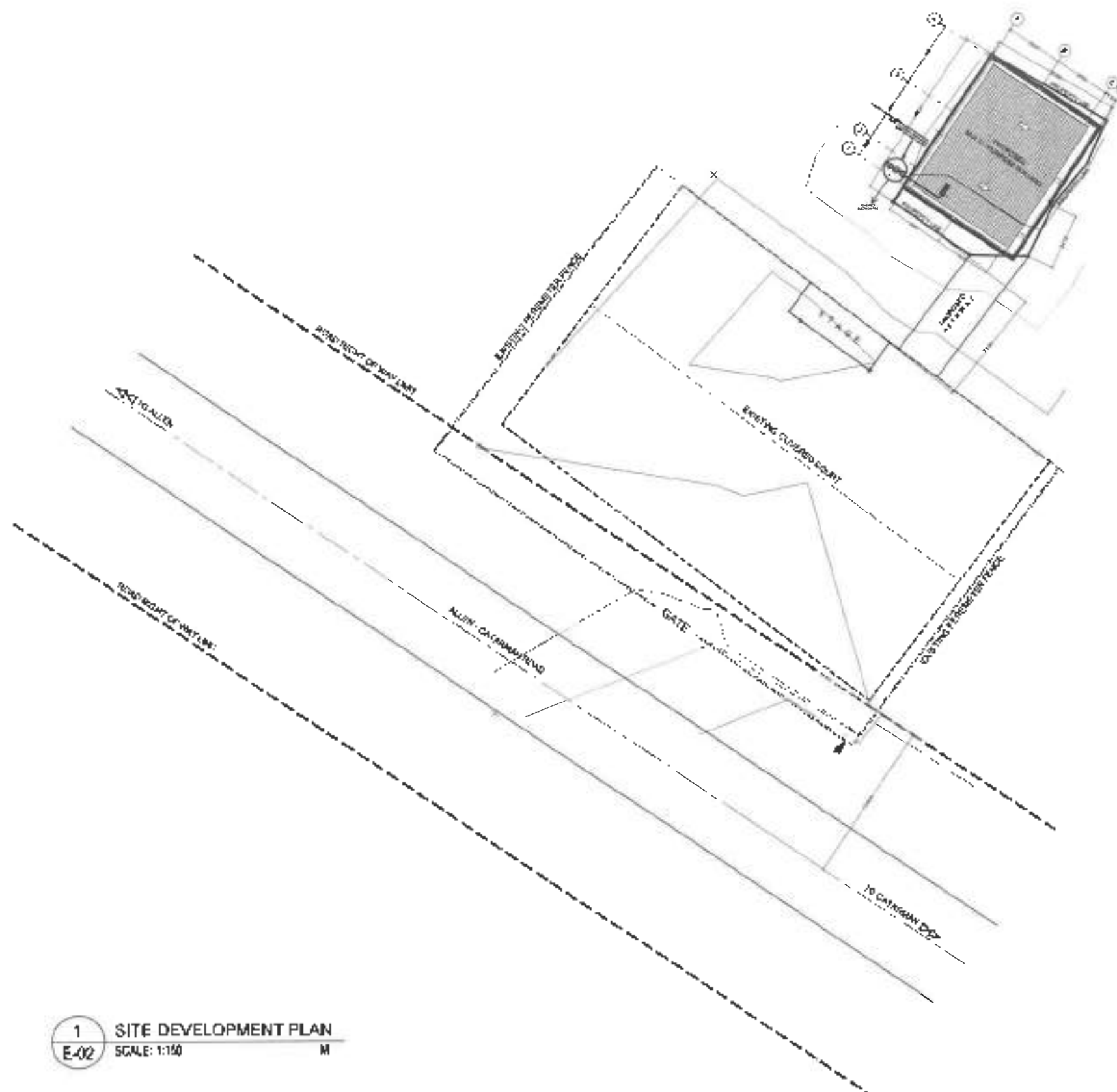
REVIEWED  
  
MARCOY C. CORICO  
+151 CHIEF PLANNING & DESIGN SECTION

SUBMITTED  
  
ANDY S. ERINO  
CHIEF PLANNING & DESIGN SECTION

RECOMMENDED  
  
VIVIAN M. ENACD  
CHIEF PLANNING & DESIGN SECTION

APPROVED  
  
ALVIN S. IGONCIO  
DISTRICT ENGINEER

SET No. **E-01**  
21/06  
SHEET No. **20**  
33



1 SITE DEVELOPMENT PLAN  
E-02 SCALE: 1:150 M



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE NO. VII  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
TIGABAN, NORTHERN SAMAR

PROJECT NAME & LOCATION

Construction of Multi-Purpose Building,  
Barengay Deo, San Jose, Northern Samar  
San Jose, Northern Samar

SHEET CONTENTS

SITE DEVELOPMENT PLAN

DESIGNED

MARY JOY L. CORNICO  
ENGINEER I

REVIEWED

MARJORIE M. BISAN  
ASST. CHIEF ENGINEER & DESIGN SECTION

SUBMITTED

ANDY S. EMANO  
CHIEF PLANNING & DESIGN SECTION

RECOMMENDED

VIVIAN G. BLASCO  
ASST. DISTRICT ENGINEER

APPROVED

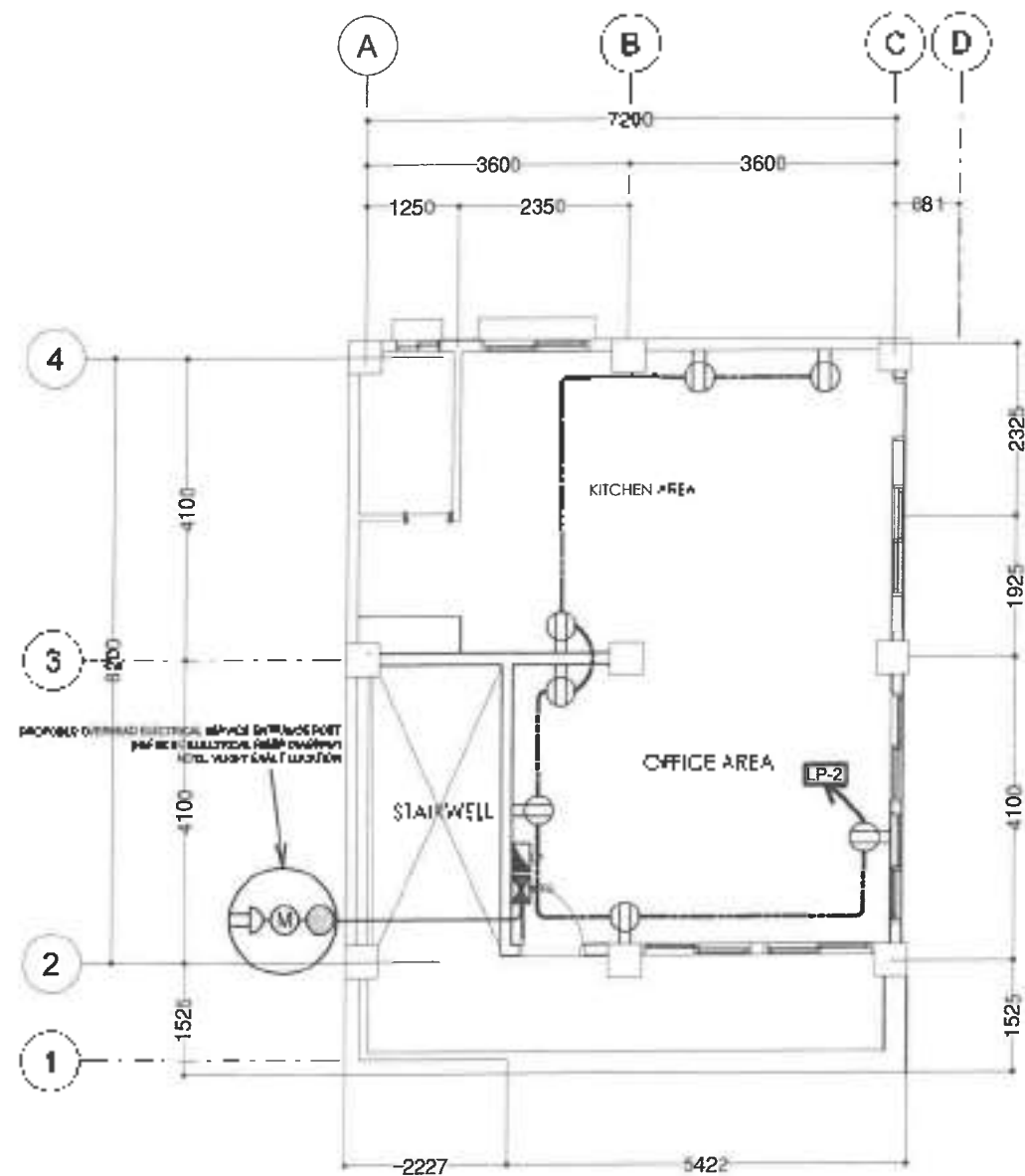
ALVIN A. IGNACIO  
DISTRICT ENGINEER

SET NO.

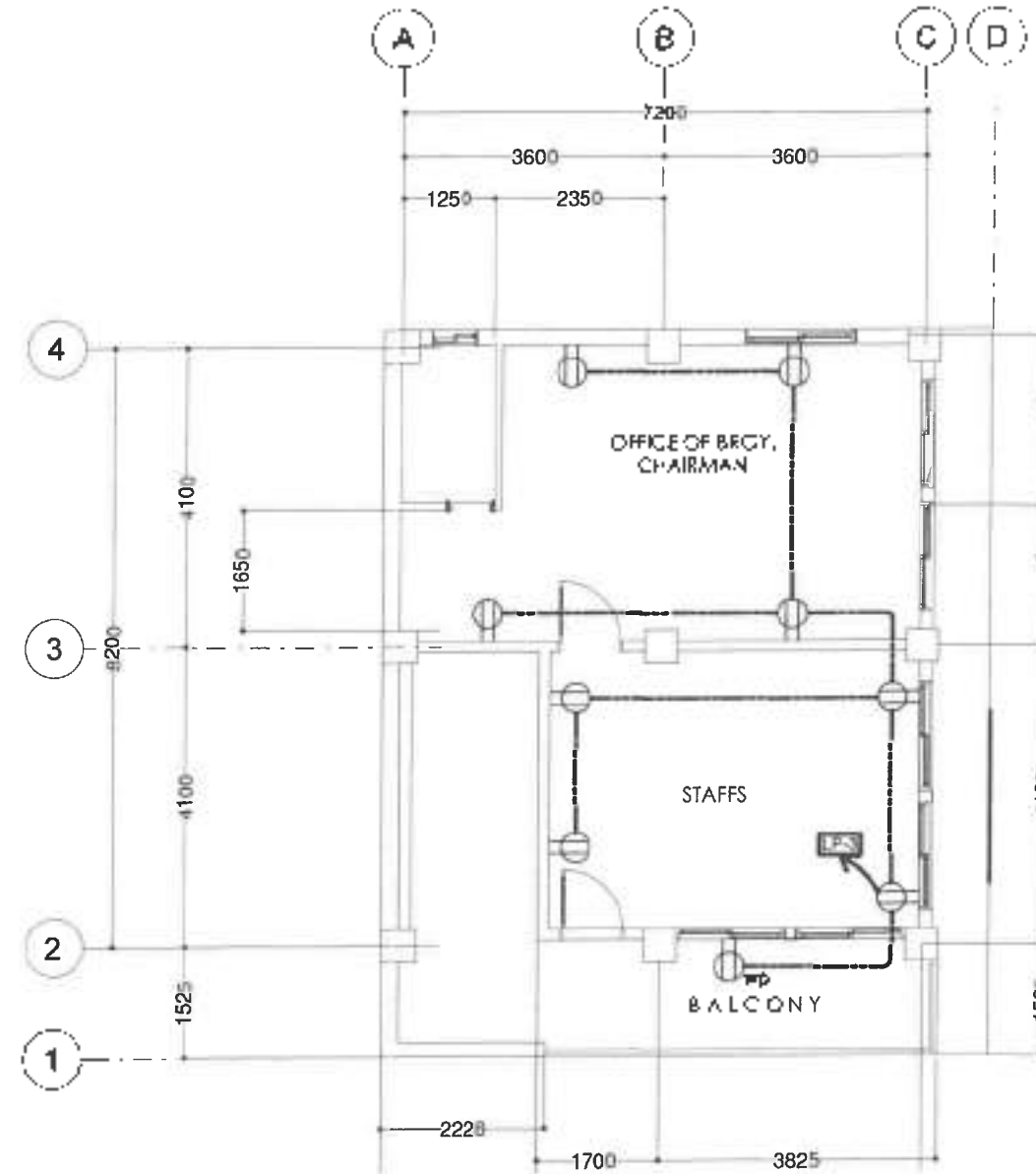
E-02  
02.10-4

SHEET NO.

21  
33



1 GROUND FLOOR POWER LAYOUT  
E-03 SCALE: 1:50 M



2 SECOND FLOOR POWER LAYOUT  
E-03 SCALE: 1:50 M



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE NO. VII  
**NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE**  
Carman, Marikina City

PROJECT NAME & LOCATION

Construction of Multi-Purpose Building,  
Barangay Dao, San Jose, Northern Samar  
San Jose, Northern Samar

SHEET CONTENTS:

GROUND FLOOR POWER LAYOUT  
SECOND FLOOR POWER LAYOUT

DESIGNED:

*[Signature]*  
MAR JOY L. DORADO  
PROJENCO

REVIEWED:

*[Signature]*  
MER DONALD M. EMAN  
Asst. Chief Planning & Design Section

SUBMITTED:

*[Signature]*  
ANDY S. SIBERO  
Chief Planning & Design Section

RECOMMENDED:

*[Signature]*  
VIVIAN O. BLAOD  
Asst. Chief Planning & Design Section

APPROVED:

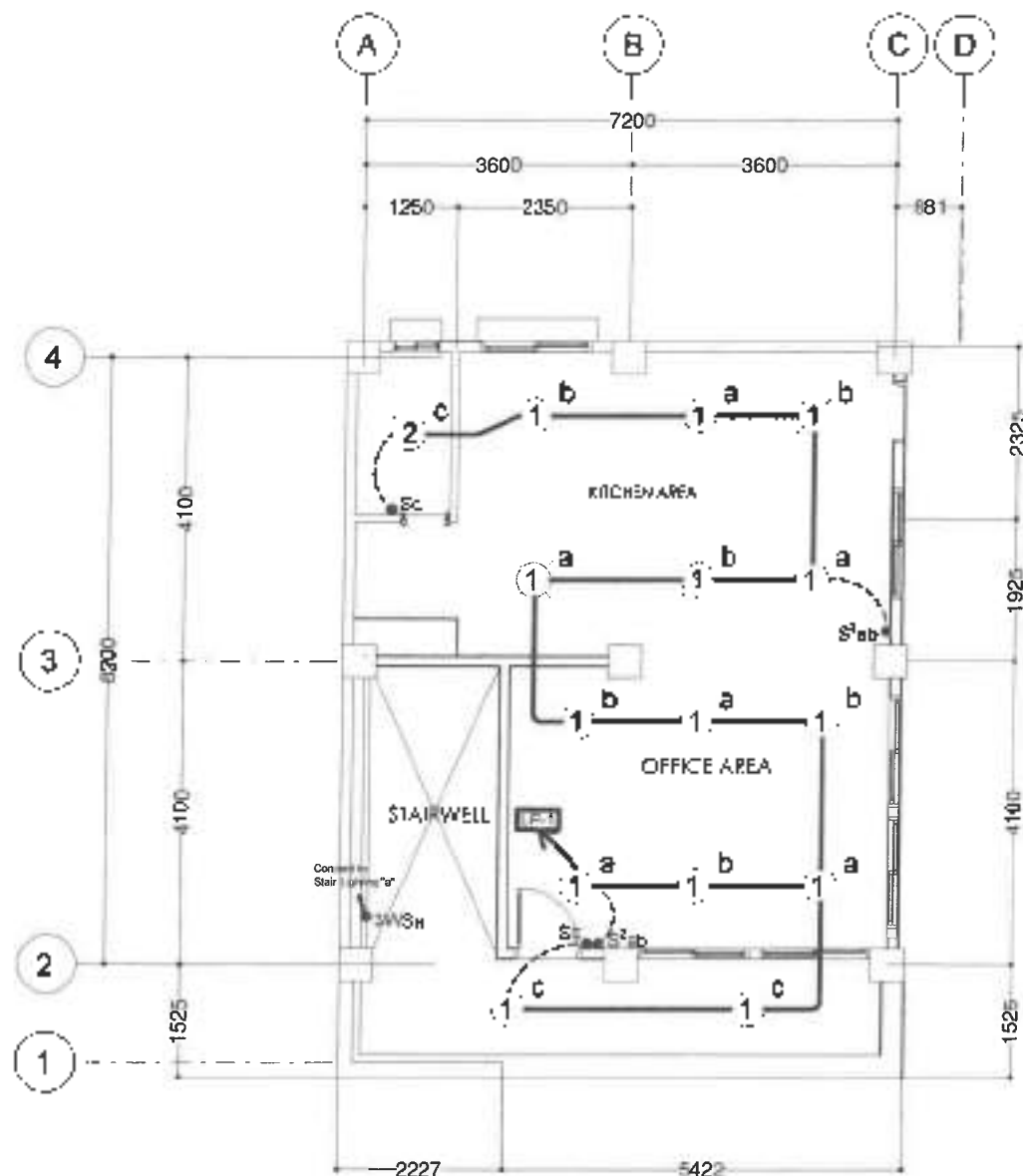
*[Signature]*  
ALVIN A. AGNACHO  
District Engineer

SHEET No.

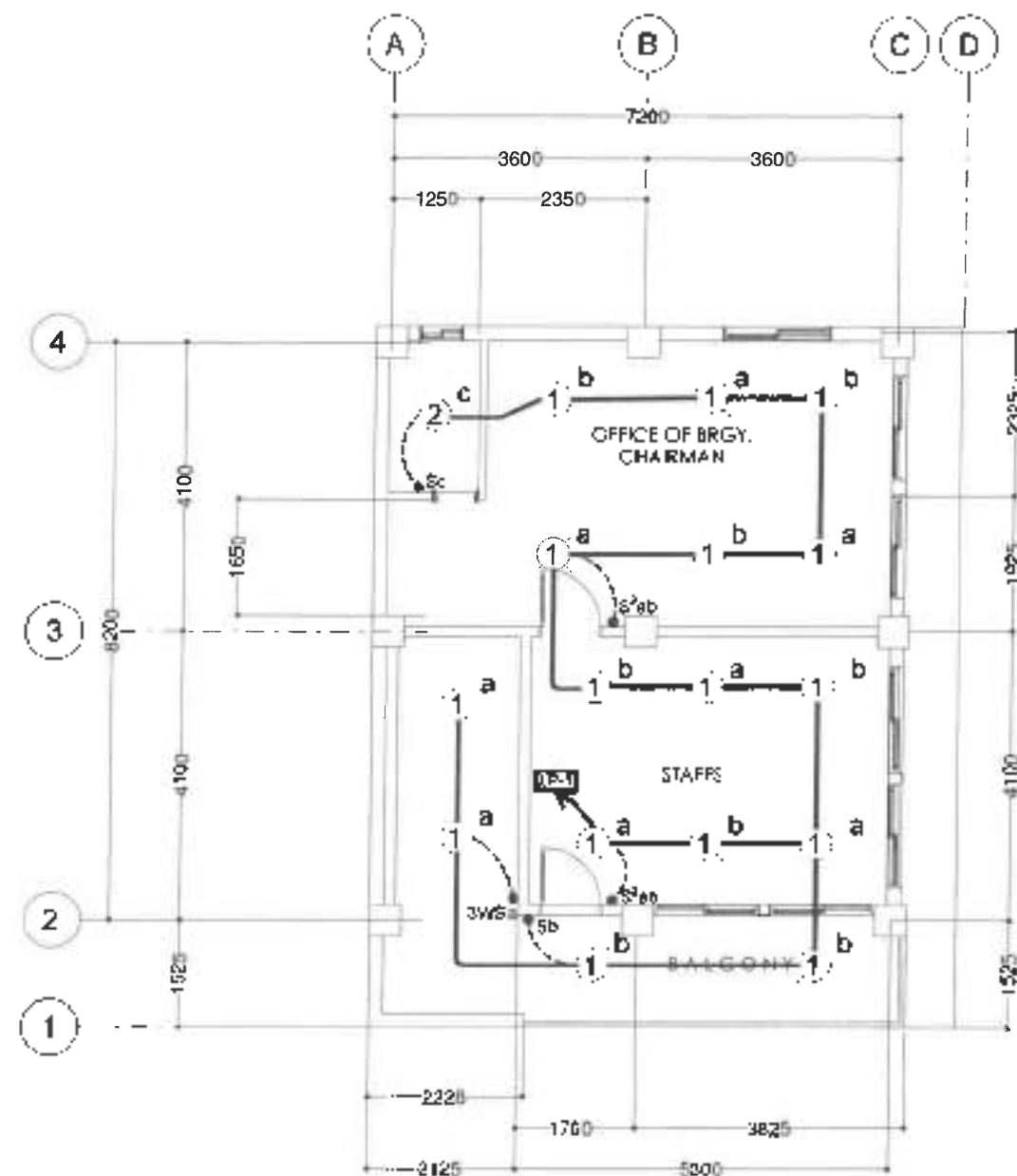
E-03  
03-04

SHEET No.

22  
33



1 GROUND FLOOR LIGHTING LAYOUT  
E-04 SCALE: 1:50



2 SECOND FLOOR LIGHTING LAYOUT  
E-04 SCALE: 1:50



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE No. VII  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
Cebu City, Northern Samar

PROJECT NAME & LOCATION

Construction of Multi-Purpose Building,  
Barangay Dao, San Jose, Northern Samar  
San Jose, Northern Samar

SHEET CONTENTS

GROUND FLOOR LIGHTING LAYOUT  
SECOND FLOOR LIGHTING LAYOUT

DESIGNED

*[Signature]*  
MARJOY L. CORVEDO  
ELECTRICIAN

REVIEWED

*[Signature]*  
MARCELO M. O. M. M. M.  
ELECTRICIAN

SUBMITTED

*[Signature]*  
ANDY S. ENERO  
ELECTRICIAN

RECOMMENDED

*[Signature]*  
TOMAS D. MACO  
ELECTRICIAN

APPROVED

*[Signature]*  
ALVIN A. IGNACIO  
ELECTRICIAN

DATE

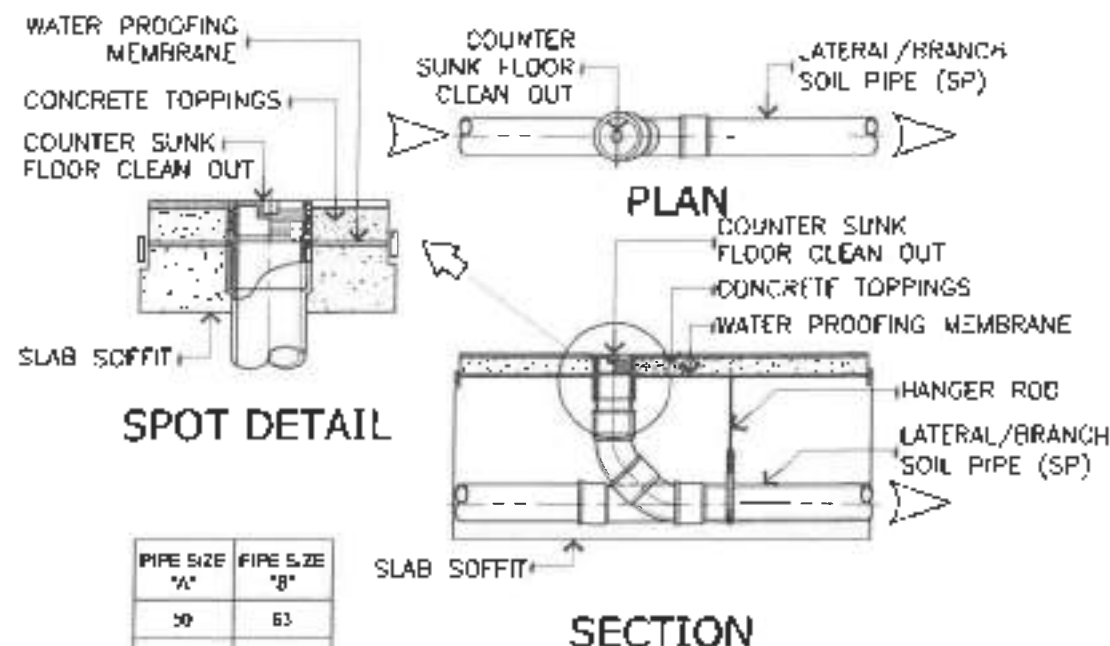
E-04  
04/04

SHEET NO.

23  
33

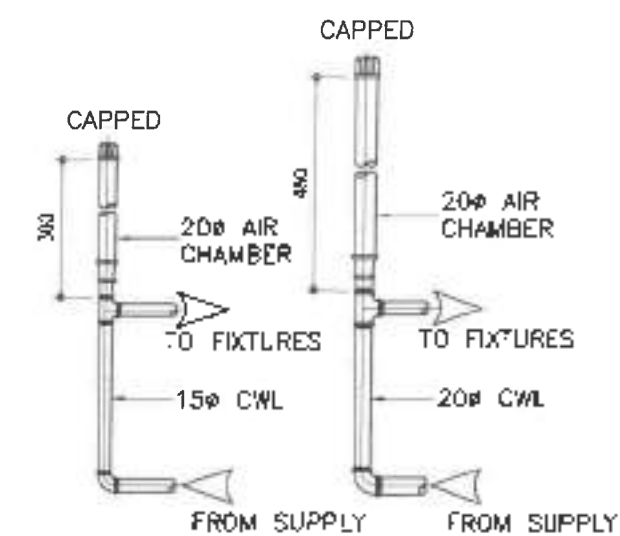
# GENERAL NOTES:

1. ALL PLUMBING WORK TO BE DONE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES AND LOCAL REGULATIONS AND ORDINANCES.
2. ALL PIPES SHALL BE INSTALLED AS INDICATED IN THE WORKING DRAWINGS. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE FROM THE APPROVAL OF THE SUPERVISOR/ENGINEER.
3. ALL PIPES SHALL BE PROVIDED WITH PROPER HANGER AND SUPPORT.
4. ALL FIXTURES SHALL BE VENTED INDIVIDUALLY AND WATERLINES SHALL BE VALVED BY GROUP.
5. UNLESS OTHERWISE SPECIFIED, ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH VENTING. THE VENT SHALL BE VENTILATION FROM FIXTURES SHALL BE 10% MEASURED ALONG THE LENGTH OF PIPE.
6. ALL PLUMBING FITTINGS SHALL BE ACCESSIBLE FOR MAINTENANCE. PROVIDE MANHOLES IF SUCH INSTALLATIONS ARE NEAR THE CEILING.
7. ALL CHANGES IN DIRECTIONS SHALL BE MADE BY THE APPROVED USE OF 45° AND 90° ELBOWS. 90° ELBOWS SHALL BE USED WHEN THE CHANGE OF DIRECTION IS FROM HORIZONTAL TO VERTICAL. A SINGLE BEND COMBINATION MAY BE USED ONLY ON VENT PIPES.
8. NO DOUBLE END OR DOUBLE TEE BRANCH SHALL BE USED ON HORIZONTAL SOIL OR WASTE LINES.
9. PROVIDE PIPE SLEEVES AT WALL COLUMNS OR SLAB TO PROTECT FROM DAMAGE.
10. ALL EXPOSED PIPES AND FITTINGS IN THE AREA SHALL BE TO HAVE PLUMBING.
11. THE BRAND AND OTHER DETAILED PLUMBING FIXTURES SHALL BE IN ACCORDANCE WITH THE SCHEDULE FURNISHED BY THE ARCHITECT.
12. GATE VALVE SHALL BE BRONZE BODY, SOLID WEDGE TYPE, SCREWED OR FLANGED AND THE PIPES SHALL BE STANDARD TYPE 1.000 IN. ALL WATER PIPES SHALL BE.
13. USE OF SANITARY PIPING SYSTEM SHALL BE FOR 1/2" TO 1" ENGINEERING CHARGE TO VERIFY ACTUAL LOCATION AND ELEVATION OF STREET SEWERAGE. STREET OPENING AND STREET WATER MAINS FOR CONNECTION BEFORE CONSTRUCTION.



| PIPE SIZE<br>"A" | PIPE SIZE<br>"B" |
|------------------|------------------|
| 50               | 63               |
| 75               | 90               |
| 100              | 110              |

1  
P-01 SCALE N.T.S.

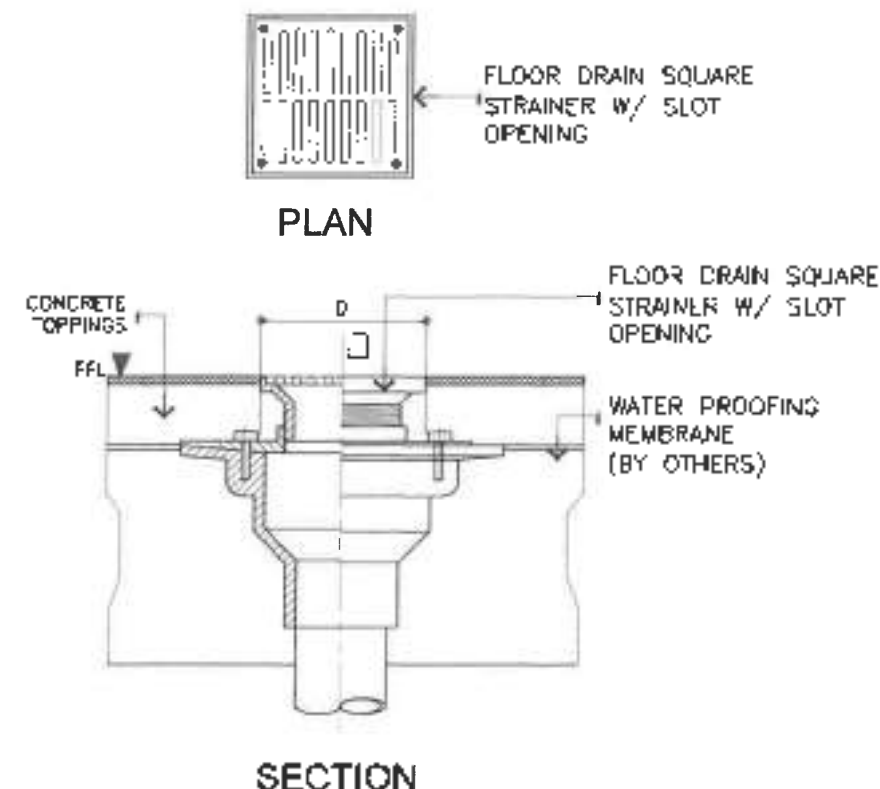


2  
P-01 SCALE N.T.S.

## LEGEND:

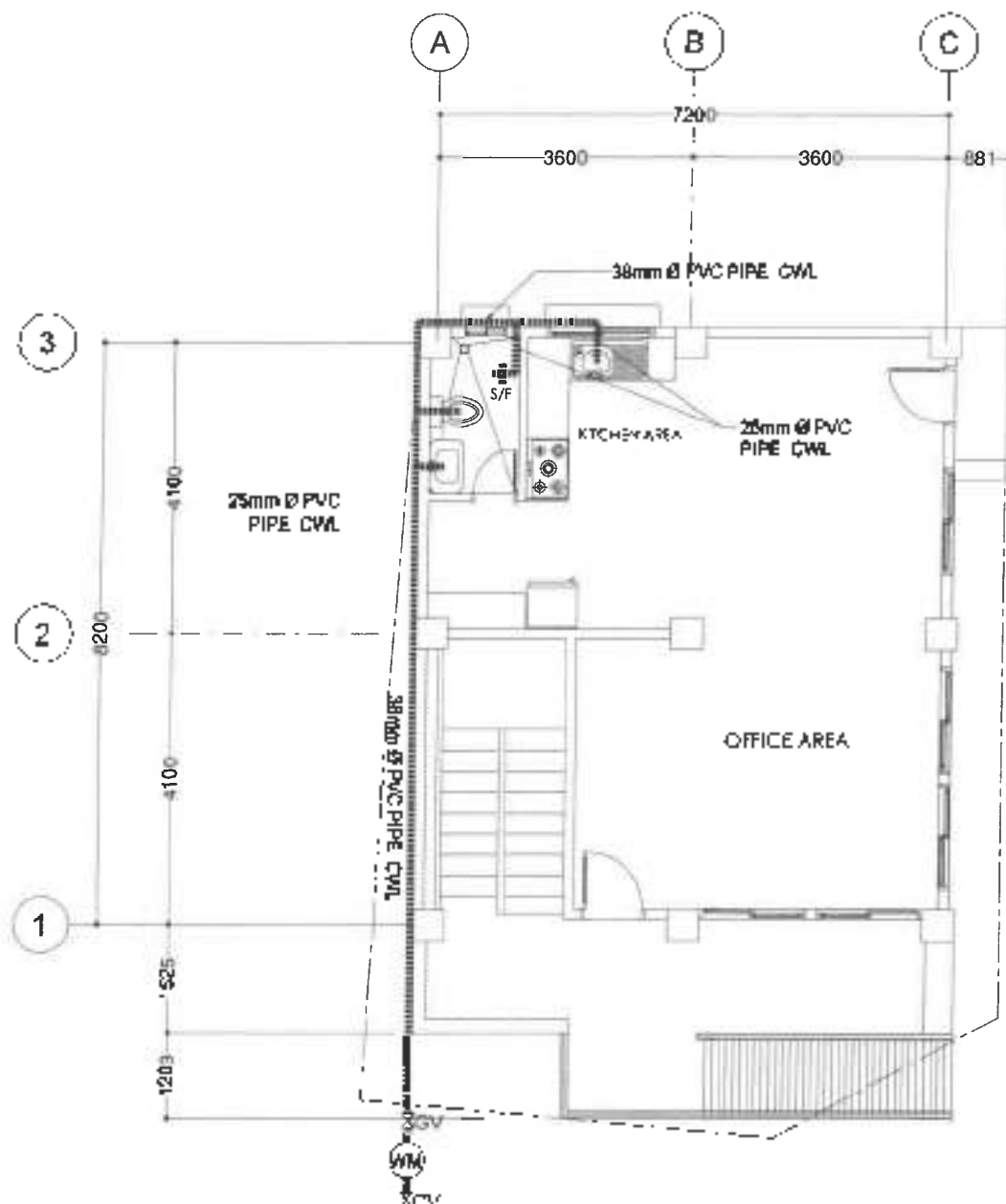
| WATER DISTRIBUTION SYSTEM  |  |  | WATERLINE           |
|----------------------------|--|--|---------------------|
| GV                         |  |  | GATE VALVE          |
| CV                         |  |  | CHIEF VALVE         |
| WM                         |  |  | WATER METER         |
| WASTE, SEWER & VENT SYSTEM |  |  | SANITARY LINE       |
| FCO                        |  |  | FLOOR CLEAN-OUT     |
| FD                         |  |  | SHOWER/FLOOR DRAIN  |
| VS                         |  |  | VENT STACK          |
| SS                         |  |  | SOIL STACK          |
| VAC                        |  |  | VENT ACROSS CEILING |
| VP                         |  |  | VENT PIPE           |
| PVC                        |  |  | POLYVINYL CHLORIDE  |
| WP                         |  |  | WET PIPE            |
| SP                         |  |  | SOIL PIPE           |
| VTR                        |  |  | VENT THRU ROOF      |
| ST                         |  |  | SEPTIC TANK         |
| AC                         |  |  | AIR CHAMBER         |
| WASTE, SEWER & VENT SYSTEM |  |  | DRAINAGE LINE       |
| DS                         |  |  | DOWNSPOUT           |
| CB                         |  |  | CATCH BASIN         |
| RD                         |  |  | ROOF DRAIN          |
| PLUMBING FIXTURES          |  |  |                     |
| LAV                        |  |  | LAVATORY            |
| WC                         |  |  | WATER CLOSET        |
| EWT                        |  |  | ELEVATED WATER TANK |

| WATER DISTRIBUTION SYSTEM  |  |  | PVC           | POLYVINYL CHLORIDE  |
|----------------------------|--|--|---------------|---------------------|
| WF                         |  |  | WF            | WET PIPE            |
| SP                         |  |  | SP            | SOIL PIPE           |
| VTR                        |  |  | VTR           | VENT THRU ROOF      |
| ST                         |  |  | ST            | SEPTIC TANK         |
| AC                         |  |  | AC            | AIR CHAMBER         |
| WASTE, SEWER & VENT SYSTEM |  |  | DRAINAGE LINE |                     |
| DS                         |  |  | DS            | DOWNSPOUT           |
| CB                         |  |  | CB            | CATCH BASIN         |
| RD                         |  |  | RD            | ROOF DRAIN          |
| CD                         |  |  | CD            | CORRIDOR DRAIN      |
| PLUMBING FIXTURES          |  |  | LAVATORY      |                     |
| LAV                        |  |  | LAV           | LAVATORY            |
| WC                         |  |  | WC            | WATER CLOSET        |
| EWT                        |  |  | EWT           | ELEVATED WATER TANK |

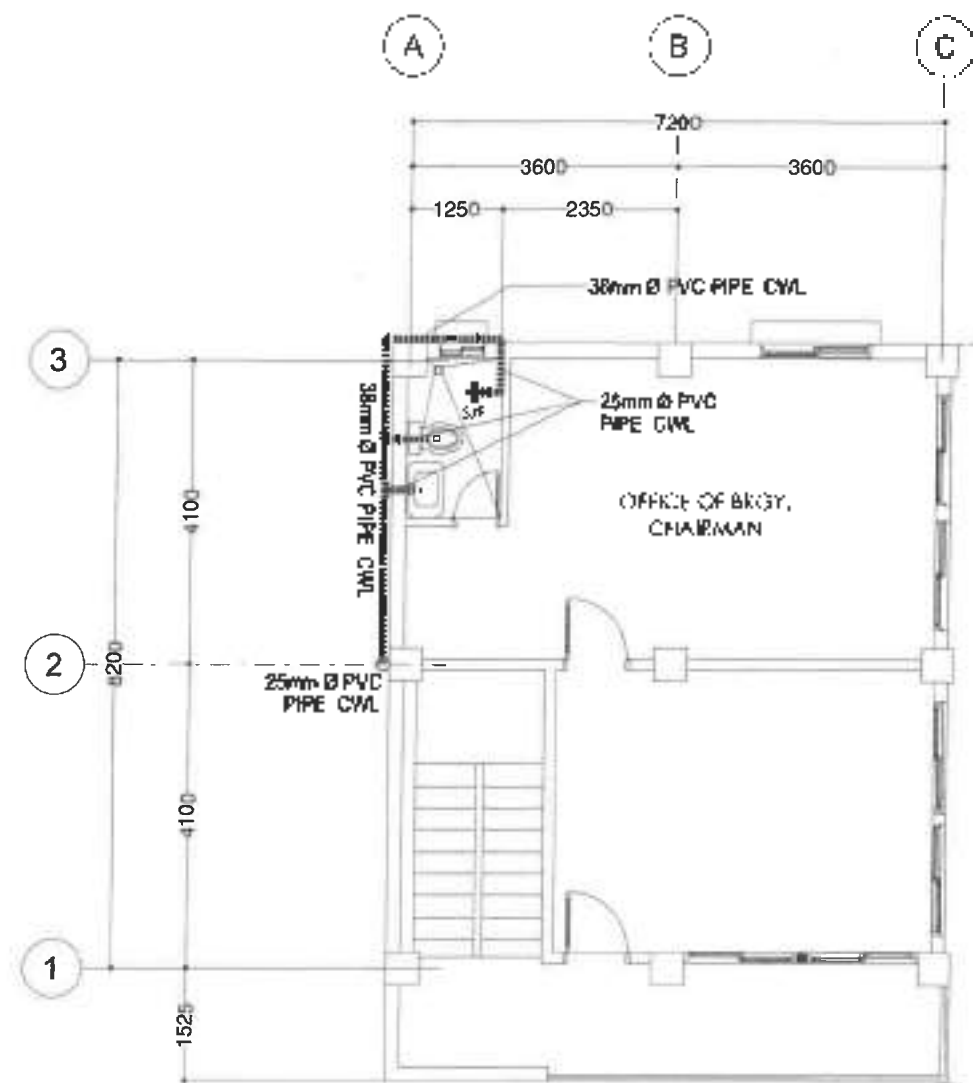


3  
P-01 SCALE N.T.S.



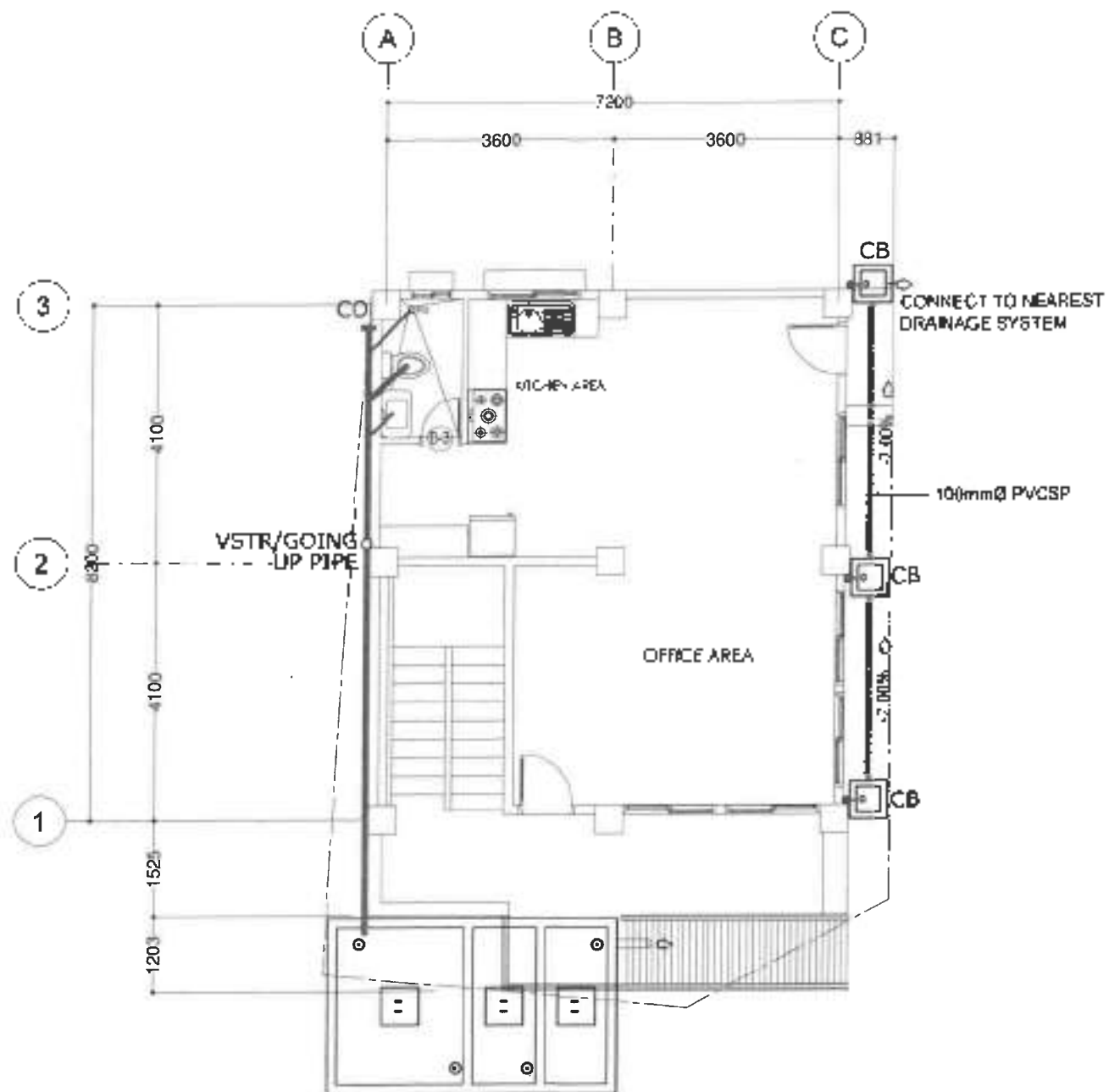


1 GROUND FLOOR WATER LINE LAY-OUT  
P-03 SCALE: 1:50 M

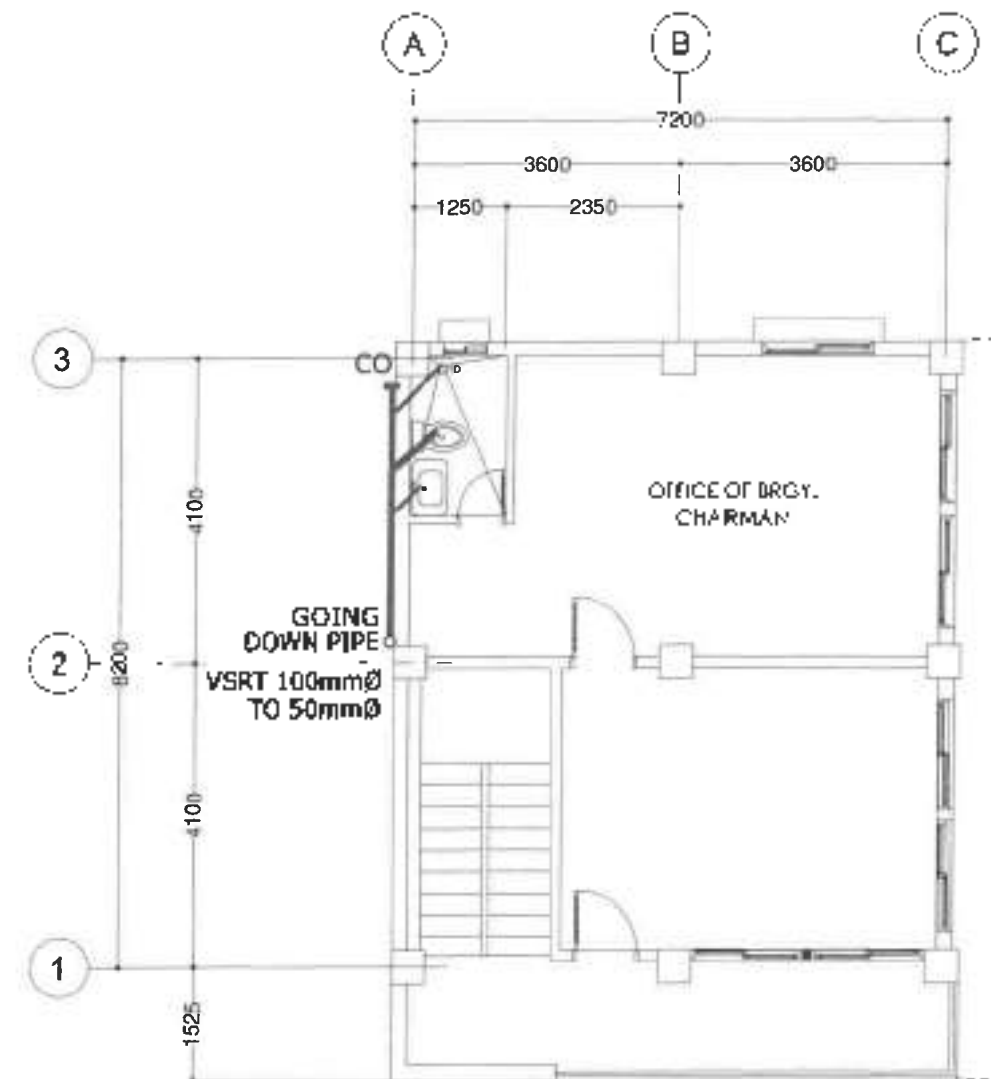


2 SECOND FLOOR WATER LINE LAY-OUT  
P-03 SCALE: 1:50 M

| DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS<br>NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE | PROJECT NAME & LOCATION<br>CONSTRUCTION OF MULTIPURPOSE BUILDING<br>BARANGAY DAO, SAN JOSE, NORTHERN SAMAR<br>San Jose, Northern Samar | SHEET CONTENTS<br>GROUND FLOOR WATER LINE LAY-OUT<br>SECOND FLOOR WATER LINE LAY-OUT | C.A.O. | DESIGNED | REVIEWED/SUBMITTED | RECOMMENDED | APPROVED | SET/No.          | SHEET No. |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------|----------|--------------------|-------------|----------|------------------|-----------|
|                                                                                             |                                                                                                                                        |                                                                                      |        |          |                    |             |          | P-03<br>03 of 03 | 36<br>33  |



1 GROUND FLOOR SEWER LINE LAY-OUT  
P-04 SCALE: 1:50 M



2 SECOND FLOOR SEWER LINE LAY-OUT  
P-04 SCALE: 1:50 M



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE No. VII  
**NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE**  
Calbayog, Northern Samar

PROJECT NAME & LOCATION

CONSTRUCTION OF MULTIPURPOSE BUILDING  
BARANGAY DAO, SAN JOSE, NORTHERN SAMAR  
San Jose, Northern Samar

SHEET COMMENTS

GROUND FLOOR SEWER LINE LAY-OUT  
SECOND FLOOR SEWER LINE LAY-OUT

DATE

*[Signature]*  
JEROME ALERMA  
Chief Engineer, District Office

DESIGNED

*[Signature]*  
MR. DONALD N. EINMAN  
ASST. CHIEF ENGINEER & DESIGN SECTION  
Date: \_\_\_\_\_

REVIEWED/SUBMITTED

*[Signature]*  
ANDY B. ERIBO  
Chief Engineer, District Office  
Date: \_\_\_\_\_

RECOMMENDED

*[Signature]*  
VICTOR D. BACÓ  
DISTRICT ENGINEER  
Date: \_\_\_\_\_

APPROVED

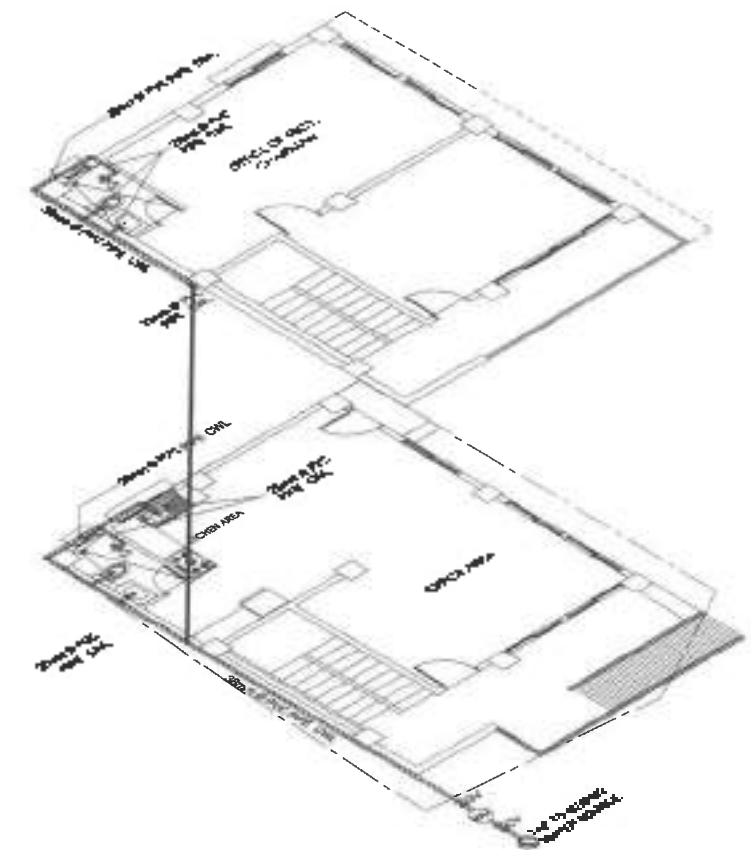
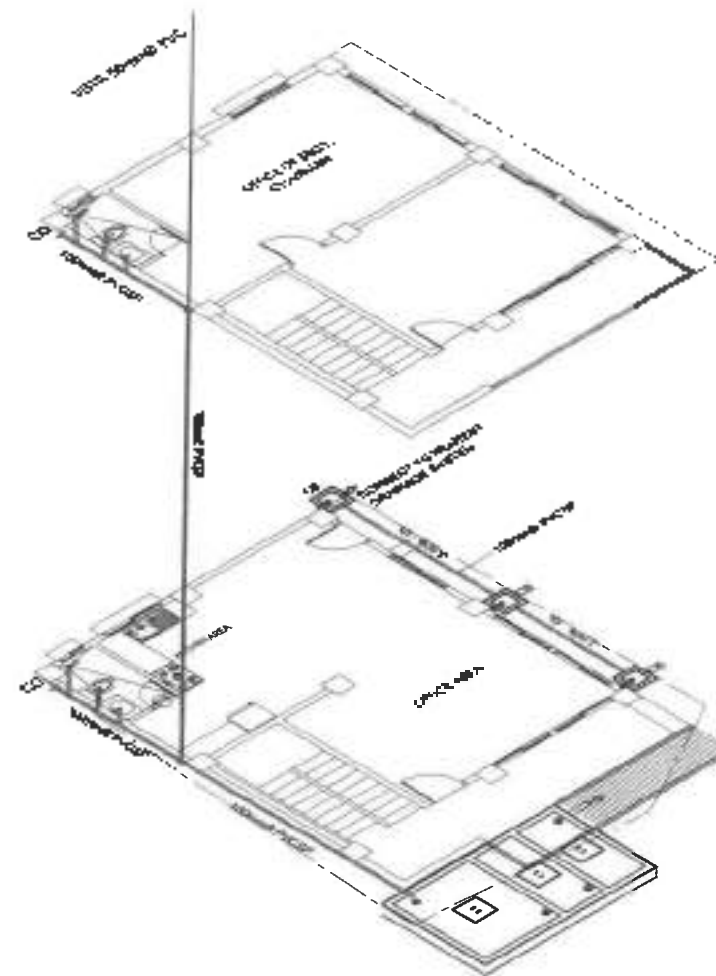
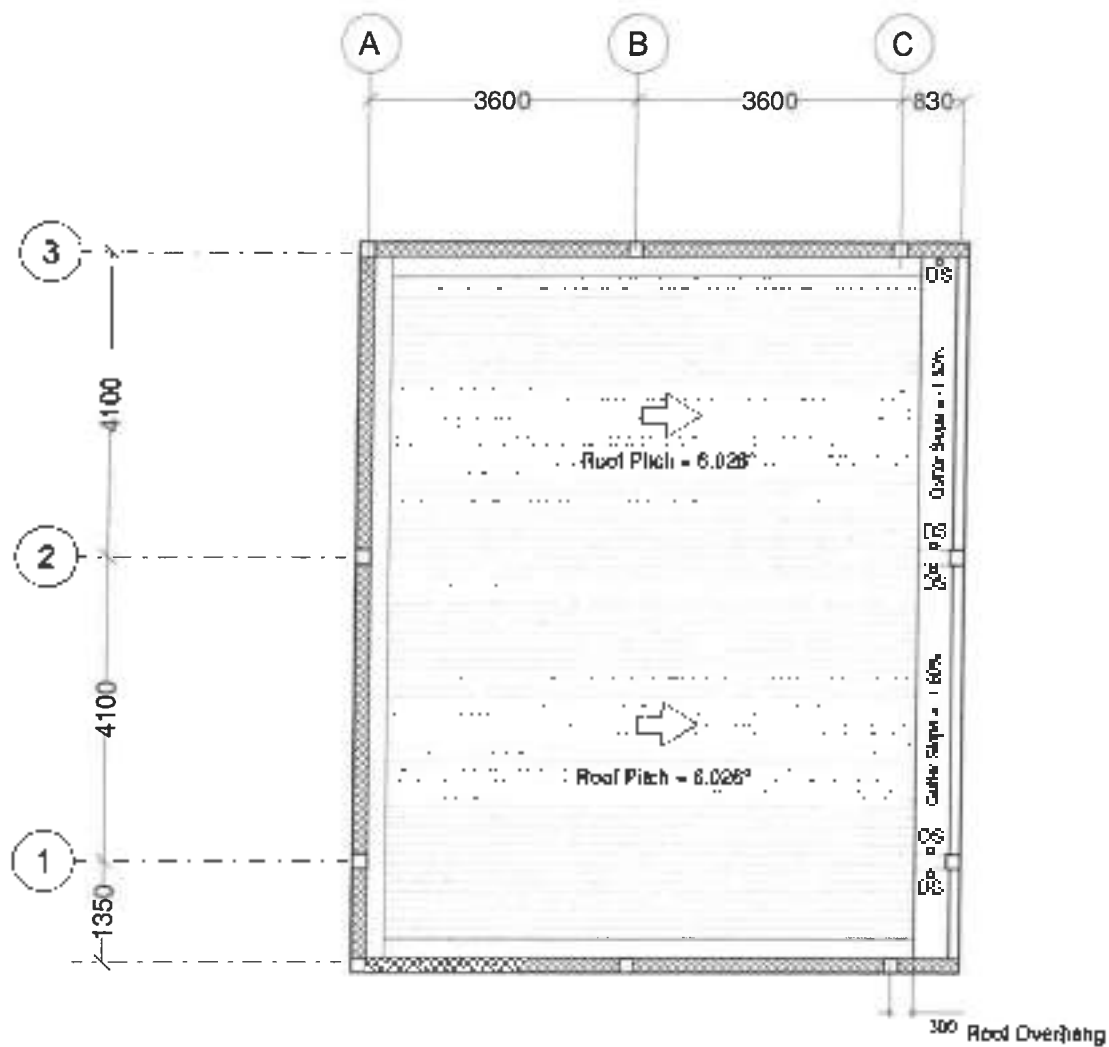
*[Signature]*  
ALVIN A. KINARDO  
[Signature] ENGINEER  
Date: \_\_\_\_\_

SHEET NO.

P-04  
04/07

SHEET NO.

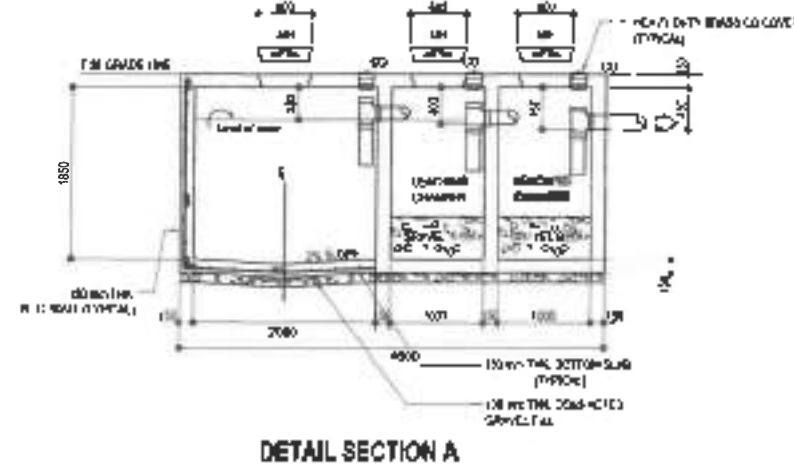
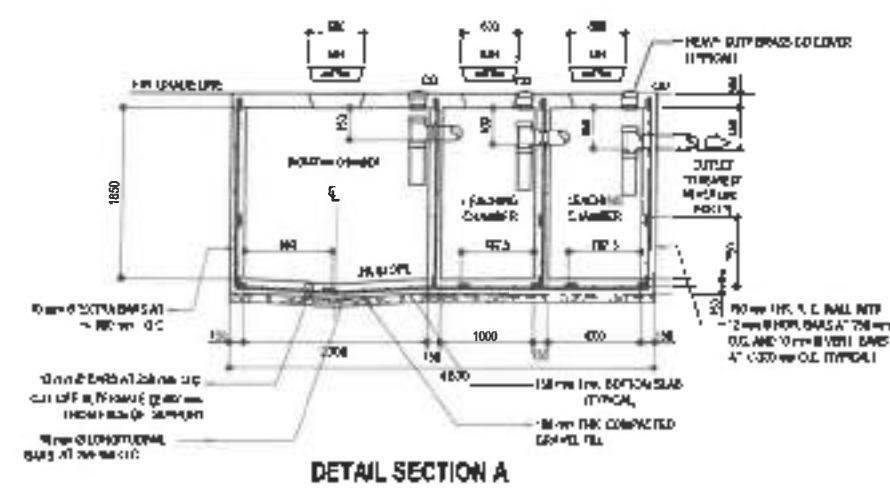
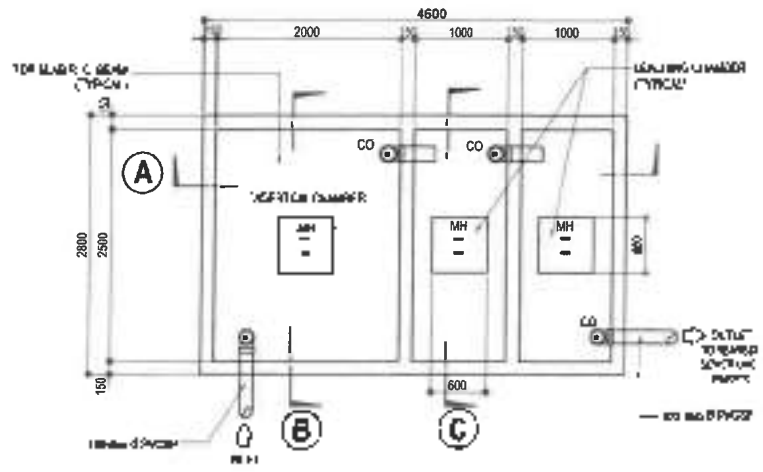
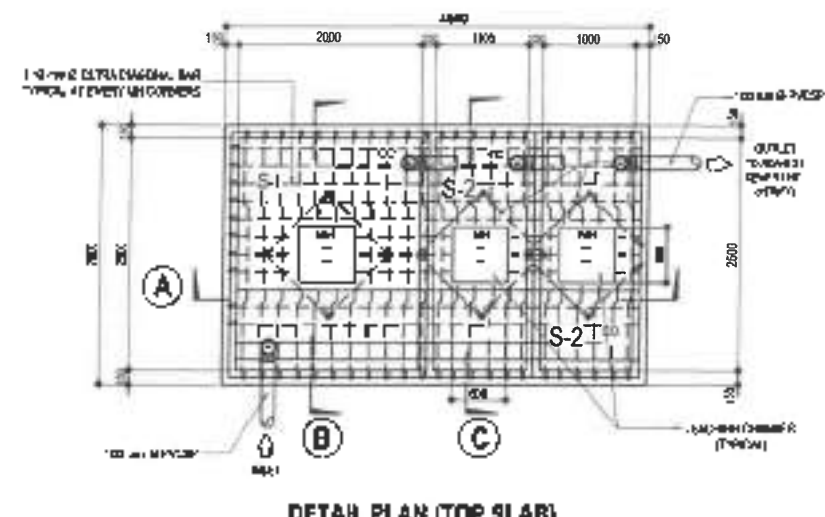
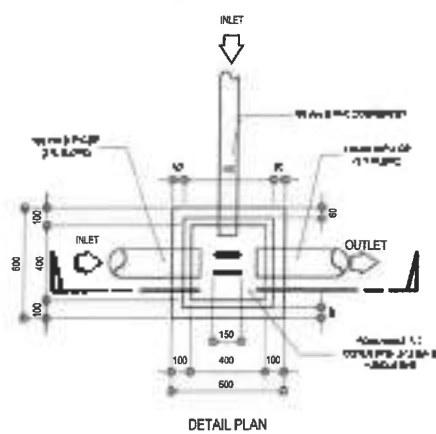
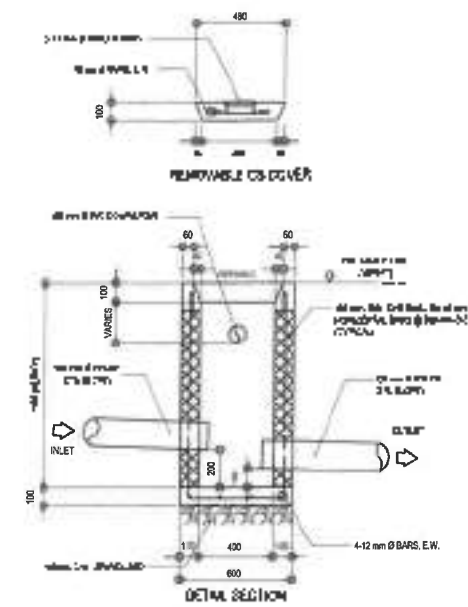
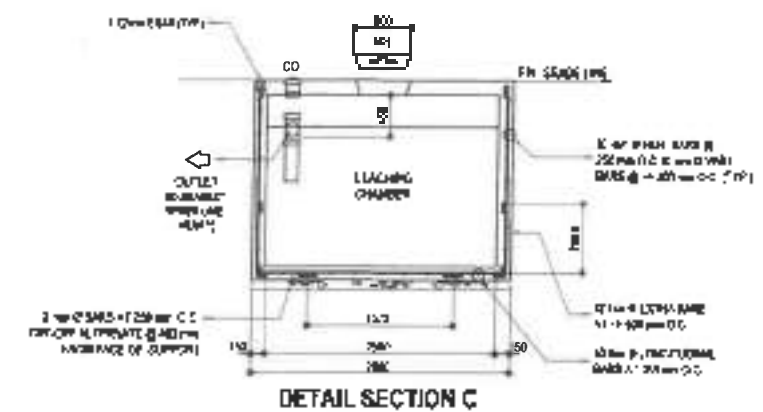
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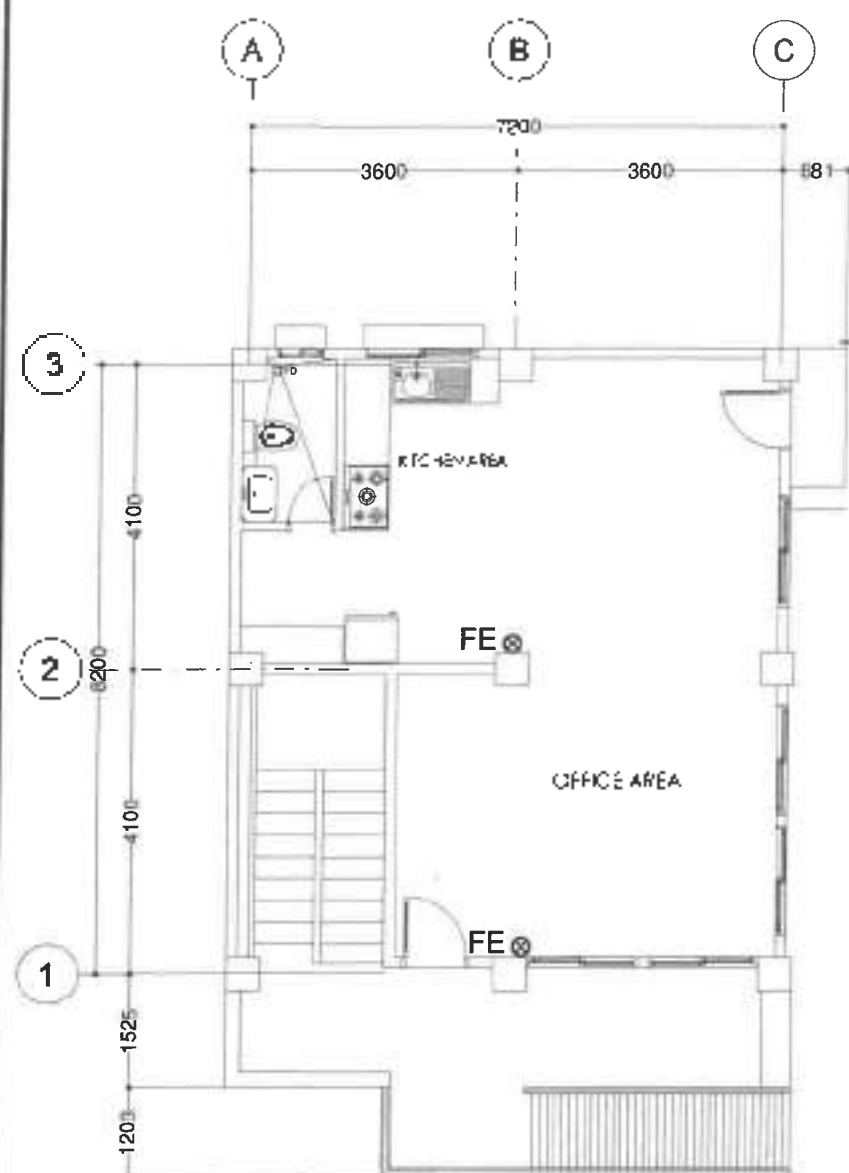


**DETAIL SECTION B**

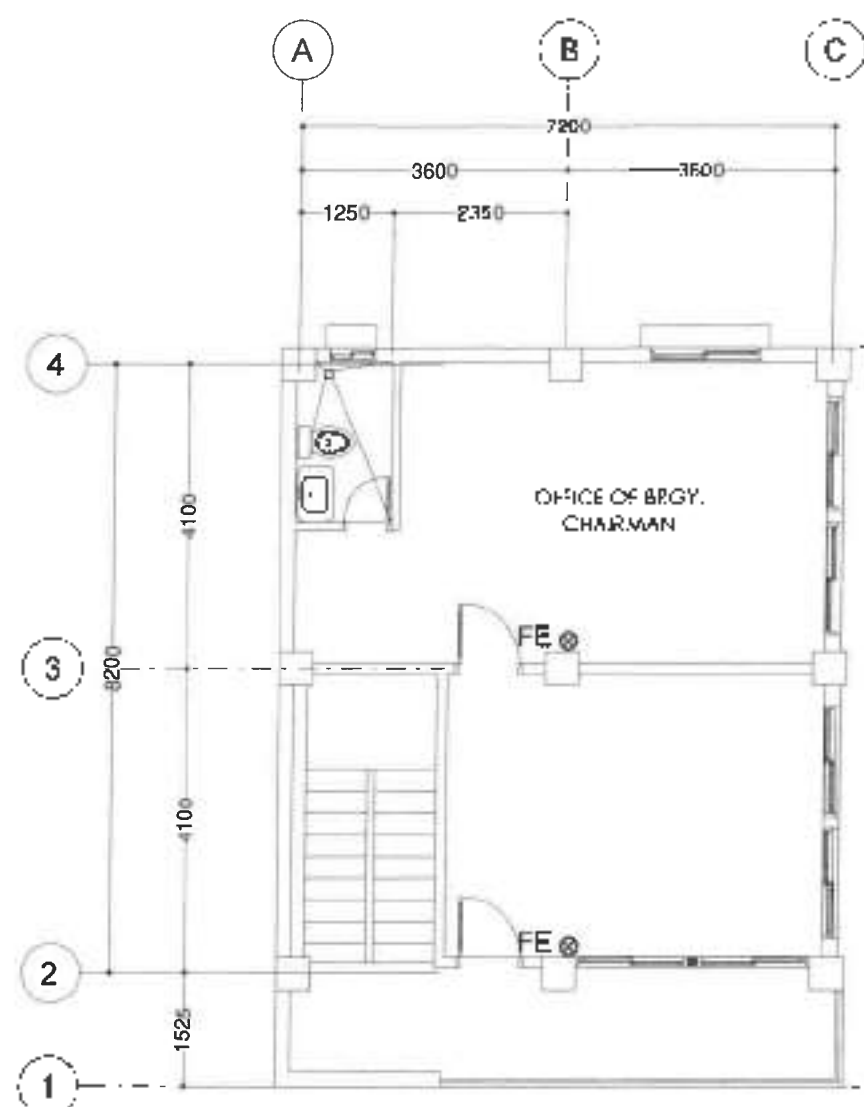
This technical drawing shows a cross-section of the enclosure. Key features include:

- Inlet:** Located at the top right, labeled "INLET".
- Top Panel:** Labeled "TOP COVER PLATE".
- Internal Structure:** Shows internal bracing and components like "COIL ON CARTRIDGE".
- Dimensions:**
  - Total height: 1175 mm.
  - Total width: 800 mm.
  - Internal width: 675 mm.
  - Internal height: 769.6 mm.
  - Bottom flange thickness: 10 mm.
  - Flange diameter: Ø 200 mm.
  - Mounting holes: 12 mm Ø MBS AT 250 mm C.C.
  - Support feet: 10 mm Ø FLANGE FOR MBS AT 250 mm C.C.





1  
FIRE EXTINGUISHER  
GROUND FLOOR PLAN  
FP-01 SCALE 1:100 MTS



2  
FIRE EXTINGUISHER  
SECOND FLOOR PLAN  
FP-02 SCALE 1:100 MTS

#### LEGEND:

⊗ FIRE EXTINGUISHER

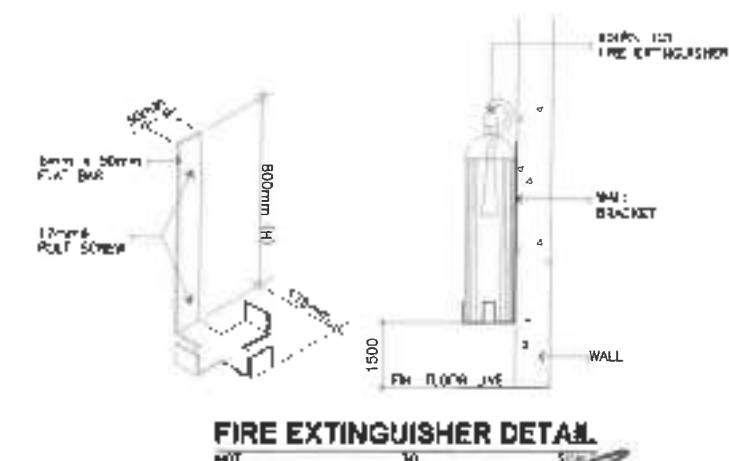
#### SCHEDULE OF EQUIPMENT

##### FIRE EXTINGUISHER

| QUANTITY | WEIGHT | TYPE         | DISCHARGE RANGE | DIAMETER | MAXIMUM VOLUME OF PROTECTION | EXTINGUISHING AGENT | REMARKS                                              |
|----------|--------|--------------|-----------------|----------|------------------------------|---------------------|------------------------------------------------------|
|          |        |              |                 |          |                              |                     |                                                      |
| FE       | 8      | WALL MOUNTED | 1.5m            | 1.5m     | 500                          | WATER               | ENVIRONMENT FRIENDLY BRAND NEW AND READY FOR SERVICE |

#### GENERAL NOTES:

- Types of Fire Extinguishers:** The fire code identifies different types of fire extinguishers suitable for various classes of fires, including Class A (ordinary combustibles like wood, paper), Class B (flammable liquids), Class C (flammable gases), Class D (flammable metals), and Class K (cooking oils and fats).
- Adequate Quantity:** Fire extinguishers must be provided in sufficient numbers and appropriate types based on the hazard level and occupancy classification of the premises. The fire code specifies the minimum number and capacity of fire extinguishers required.
- Location and Accessibility:** Fire extinguishers should be easily accessible, visible, and located in conspicuous positions within the premises. They should be mounted on brackets or stands and placed along exit routes, near staircases, corridors, and fire exits. The fire code provides specific guidelines on the maximum distance to travel to reach a fire extinguisher.
- Proper Maintenance:** Fire extinguishers must be maintained in good working condition at all times. Regular inspections, maintenance, and testing should be conducted as per the manufacturer's recommendations and the fire code. This includes checking the pressure gauge, seals, and other components, ensuring they are not damaged or tampered with.
- Training and Awareness:** It is essential to provide training to occupants on the proper use of fire extinguishers and their limitations. Building administrators and occupants should be aware of the type and location of extinguishers within the premises.
- Proper Use:** Fire extinguishers should be used only when it is safe to do so, and individuals attempting to extinguish fires must be trained on how to use the specific type of extinguisher. It is important to remember the acronym "PASS" - Pull the pin, Aim at the base of the fire, Squeeze the handle, and Sweep from side to side.
- Recharging and Disposal:** If a fire extinguisher has been discharged, it must be recharged or replaced promptly to maintain its readiness. Disposal of damaged or expired extinguishers should be done in accordance with local regulations and environmental guidelines.



FIRE EXTINGUISHER DETAIL  
SCALE 1:100



Department of Public Works and Highways  
REGIONAL OFFICE NO. 1A  
NORTHERN SAMAR DISTRICT ENGINEERING OFFICE  
1200 Main Building, Samar

PROJECT NAME & LOCATION  
CONSTRUCTION OF MULTIPURPOSE BUILDING  
BARANGAY DMO, SAN JOSE, NORTHERN SAMAR  
San Jose, Northern Samar

SHEET CONTENTS  
FIRE EXTINGUISHER LAYOUT PLAN

CAD:

JEFFREY J. ALERA  
Engineering Supervisor

DESIGNED:

MARICORINDA M. ERMAN  
Project Engineer

REVIEWED/REMARKS:

ANDY S. ERIBAO  
Project Engineer

RECOMMENDED:

ARMANDO C. BACAO  
Project Engineer

APPROVED:

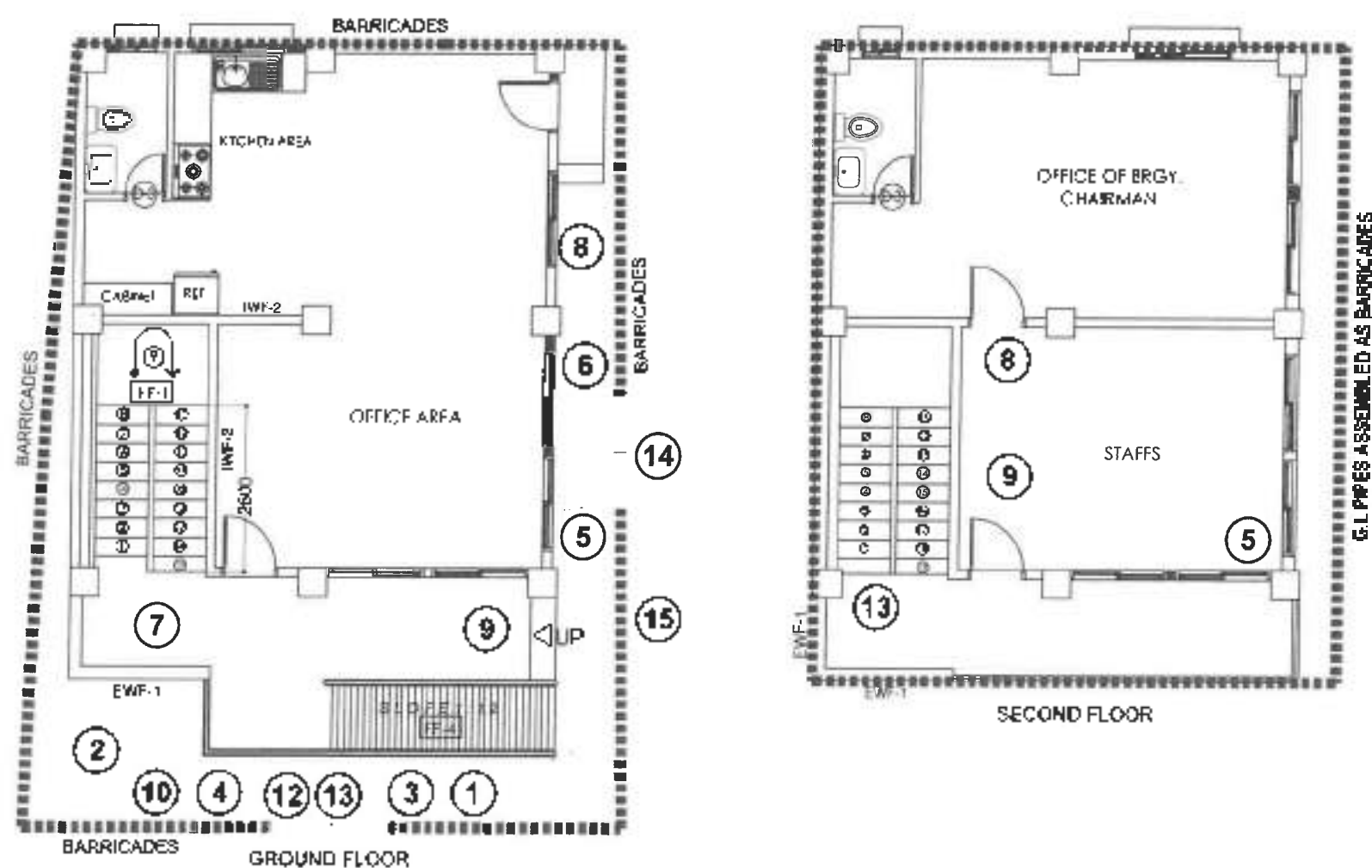
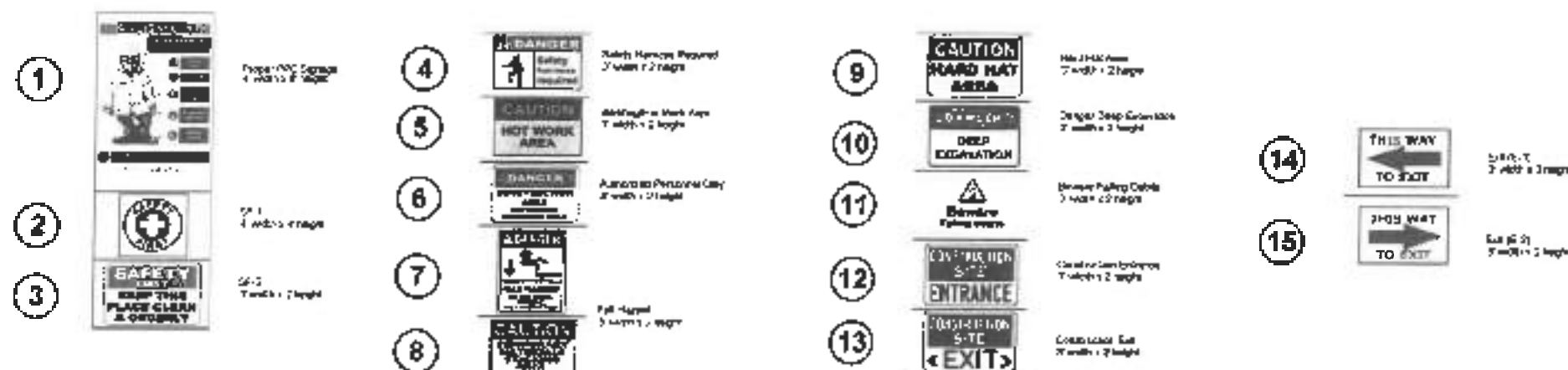
ALVIN B. IGNACIO  
District Engineer

SHEET NO.

FE-1  
01/01

SHEET NO.

30  
39

[illegible]

1 SIGNAGES AND BARRICADES  
PQB-1 SCALE 150 MTS





Commission on Land Use and Urban Planning  
Office of the Executive Director

Project: \_\_\_\_\_ Location: \_\_\_\_\_

Implementing Agency/Unit: \_\_\_\_\_

Development Pattern/Type: \_\_\_\_\_

Contract/Agreement: \_\_\_\_\_

Billboard Location of Project: \_\_\_\_\_

Project Details

| Project Date |            |                           | Project Status             |                  |                |                |         |
|--------------|------------|---------------------------|----------------------------|------------------|----------------|----------------|---------|
| Activity     | Start Date | Target Date of Completion | Completion of Construction | No. of [Circles] | 100% [Circles] | 100% [Circles] | Remarks |
|              |            |                           |                            |                  |                |                |         |
|              |            |                           |                            |                  |                |                |         |
|              |            |                           |                            |                  |                |                |         |

For completion or completion status of project, please consult the Regional Office or District Office which has valid jurisdiction on the project.

COA Regional Office No./Case No.: \_\_\_\_\_

Address: \_\_\_\_\_

Contact No.: \_\_\_\_\_ or Fax: COA, Cebu City, 6015-5291853

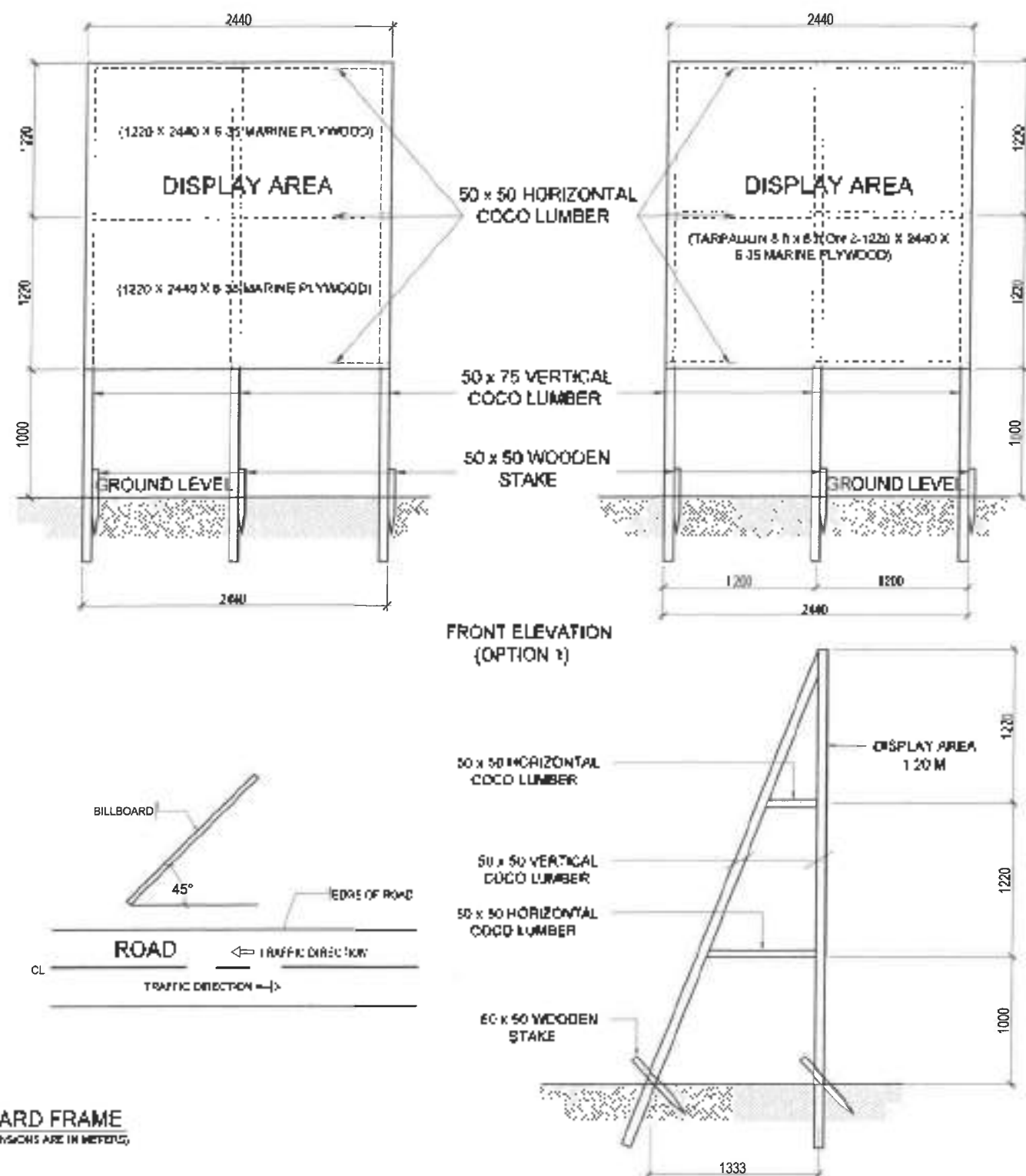
## COA STANDARD PROJECT BILLBOARD

### SPECIFICATIONS:

1. TARPULIN, WHITE, 8 FT X 8 FT
2. RESOLUTION : 70 DPI
3. FONT : HELVETICA
4. FONT SIZE : MAIN INFORMATION - 3"  
SUB-Information - 1"
5. FONT COLOR: BLACK
6. BACKGROUND COLOR: WHITE

### COA BILLBOARD FRAME

(NOT TO SCALE, ALL DIMENSIONS ARE IN METERS)



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE No. VII  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
Cebu City, Northern Samar

PROJECT NAME & LOCATION  
CONSTRUCTION OF MULTIPURPOSE BUILDING  
BRGY. DAGO, SAN JOSE, NORTHERN SAMAR  
San Jose, Northern Samar

SHEET CONTENTS:  
COA BILLBOARD

DESIGNED BY:  
JERRY RUILO & L. LUCIANO  
ARCHITECTS

REVIEWED BY:  
RAYMOND M. ERAN  
SENIOR CHIEF PLANNING & CONSTRUCTION

SUBMITTED BY:  
ANDY S. ERANO  
CHIEF PLANNING & CONSTRUCTION

RECOMMENDED BY:  
VIVIANTE RUANO  
SENIOR CHIEF PLANNING & CONSTRUCTION

APPROVED BY:  
ALVIN A. IGNACIO  
DISTRICT ENGINEER

SHEET NO.  
PBB-03  
03/03

SHEET NO.  
33  
33