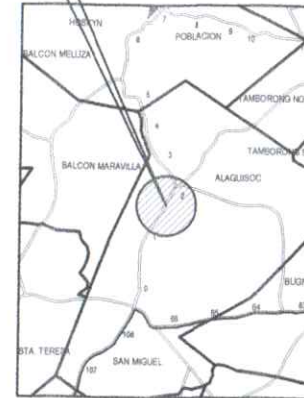




## CONSTRUCTION OF TWO STOREY CLASSROOM BUILDING

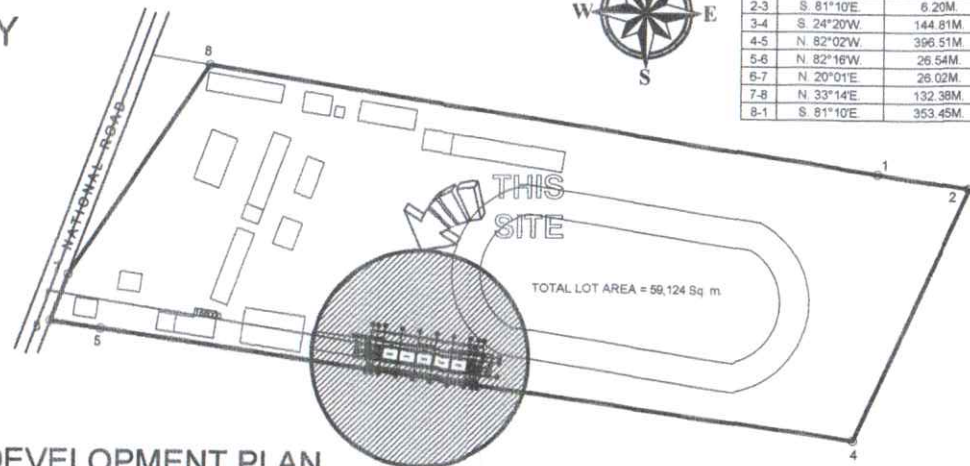
THIS SITE



**VICINITY MAP**  
SCALE: NTS



| TECHNICAL DESCRIPTION |            |          |
|-----------------------|------------|----------|
| LINE                  | BEARING    | DISTANCE |
| 1-2                   | S. 81°10'E | 47.91M   |
| 2-3                   | S. 81°10'E | 6.20M    |
| 3-4                   | S. 24°20'W | 144.81M  |
| 4-5                   | N. 82°02'W | 396.51M  |
| 5-6                   | N. 82°16'W | 26.54M   |
| 6-7                   | N. 20°01'E | 26.02M   |
| 7-8                   | N. 33°14'E | 132.38M  |
| 8-1                   | S. 81°10'E | 353.45M  |



**SITE DEVELOPMENT PLAN**  
SCALE: 1:1000MTS

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JORDAN GUMABAS  
REGISTERED

LAND & USED ZONING

LAND & GRADE

ARCHITECTURAL

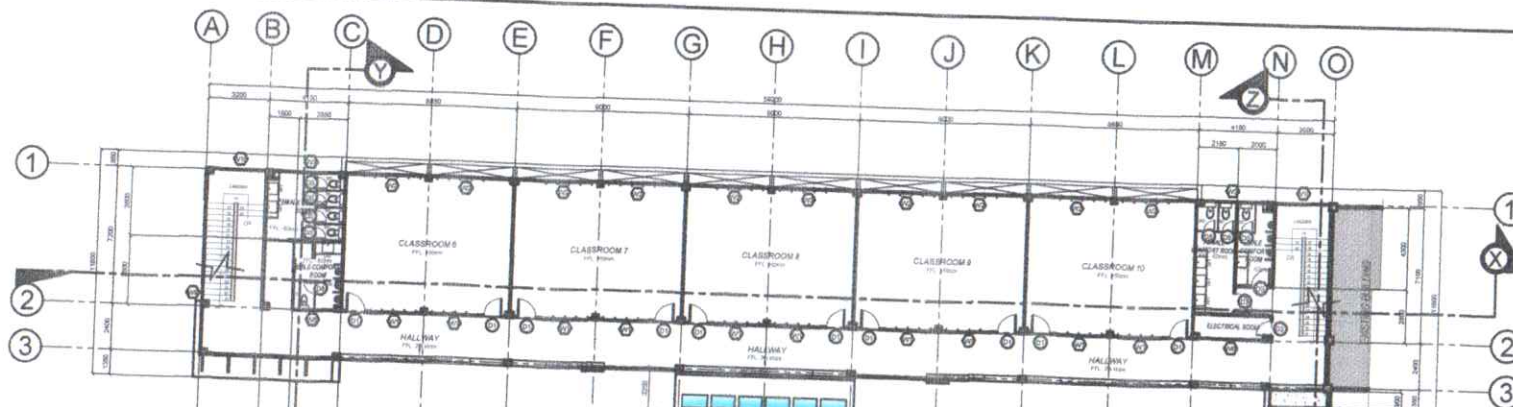
STRUCTURAL

SANITARY

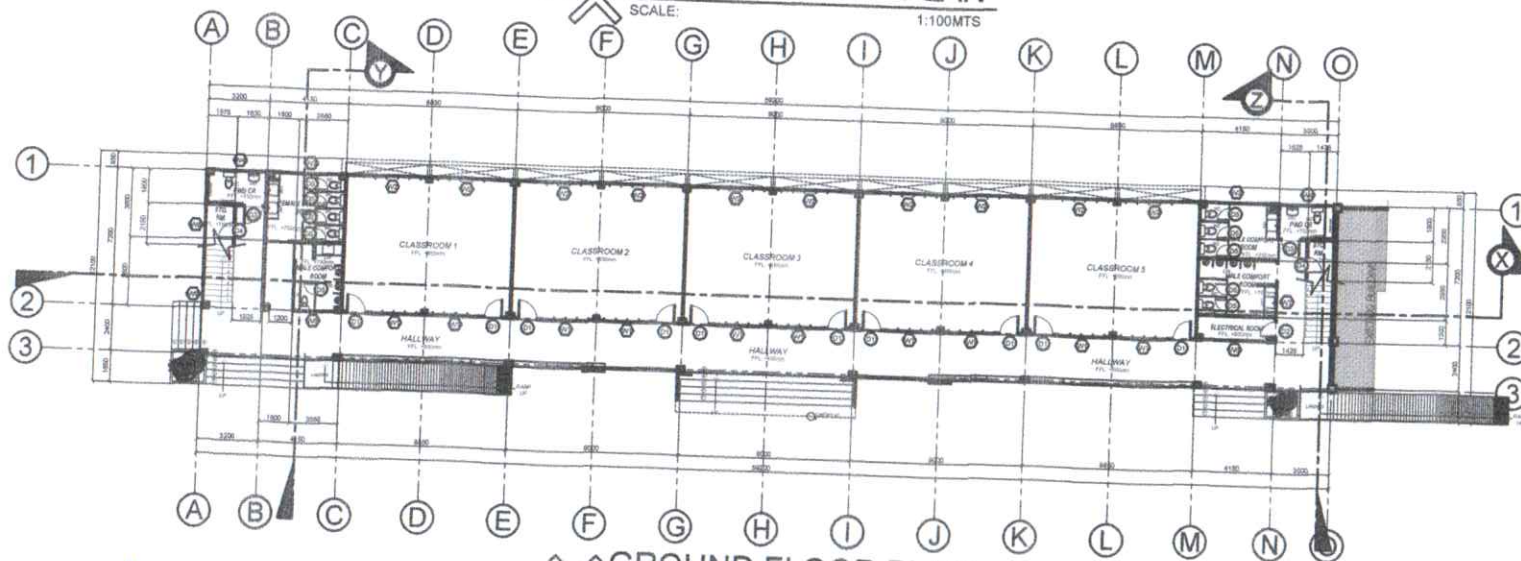
ELECTRICAL

MECHANICAL

|  |                                           |              |            |                                                |                                               |                                            |                                                     |               |               |
|--|-------------------------------------------|--------------|------------|------------------------------------------------|-----------------------------------------------|--------------------------------------------|-----------------------------------------------------|---------------|---------------|
|  | PREPARED BY                               | CERTIFIED BY | P.E.C. NO. | PROJECT TITLE                                  | CHECKED AND REVIEWED BY                       | RECOMMENDING APPROVAL                      | APPROVED                                            | SHEET CONTENT | SHEET No.     |
|  | ENGR. RUBEN M. HABAÑA<br>PROJECT ENGINEER |              |            | CONSTRUCTION OF 2 STOREY<br>CLASSROOM BUILDING | EFREN S. TELLERMO, Ph.D.<br>PLANNING DIRECTOR | KERY D. PILORA<br>MORALEJA CAMPUS DIRECTOR | LILIAN NANA ADARTELO, Ph.D.<br>UNIVERSITY PRESIDENT | AS SHOWN      | A1            |
|  |                                           |              | DATE       | LOCATION: ALAGUISOC, JORDAN GUMABAS            |                                               |                                            |                                                     |               | ARCHITECTURAL |
|  |                                           |              | ISSUED     |                                                |                                               |                                            |                                                     |               |               |



**SECOND FLOOR PLAN**  
SCALE: 1:100MTS



**GROUND FLOOR PLAN**  
SCALE: 1:100MTS

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JORDAN GUIMARAS  
MOROPET

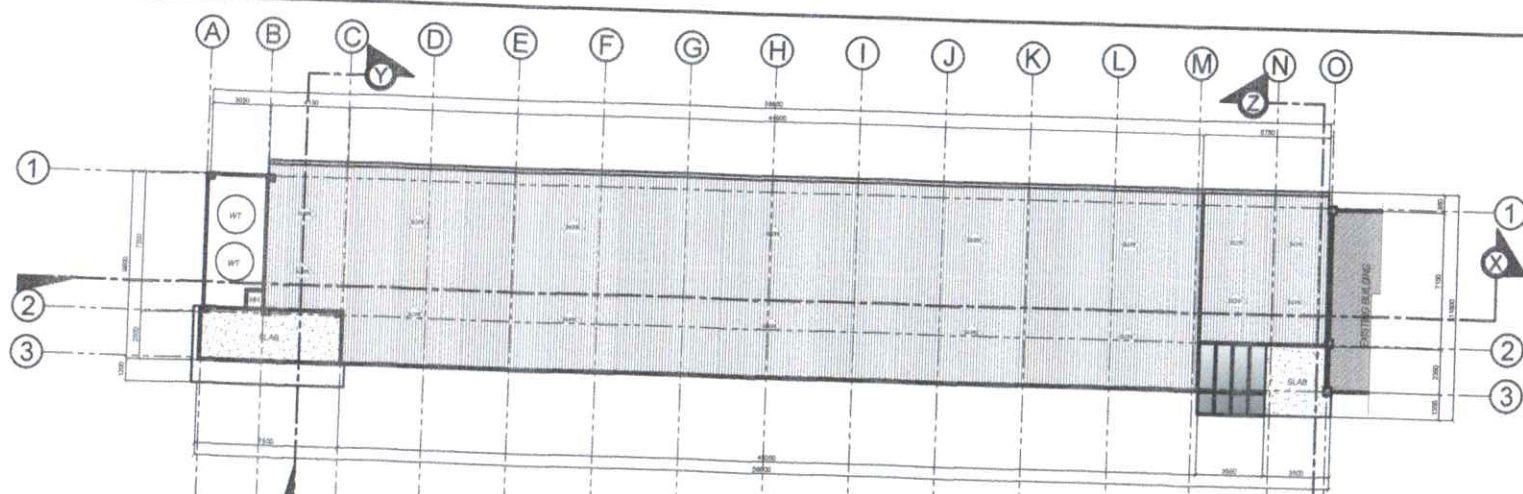
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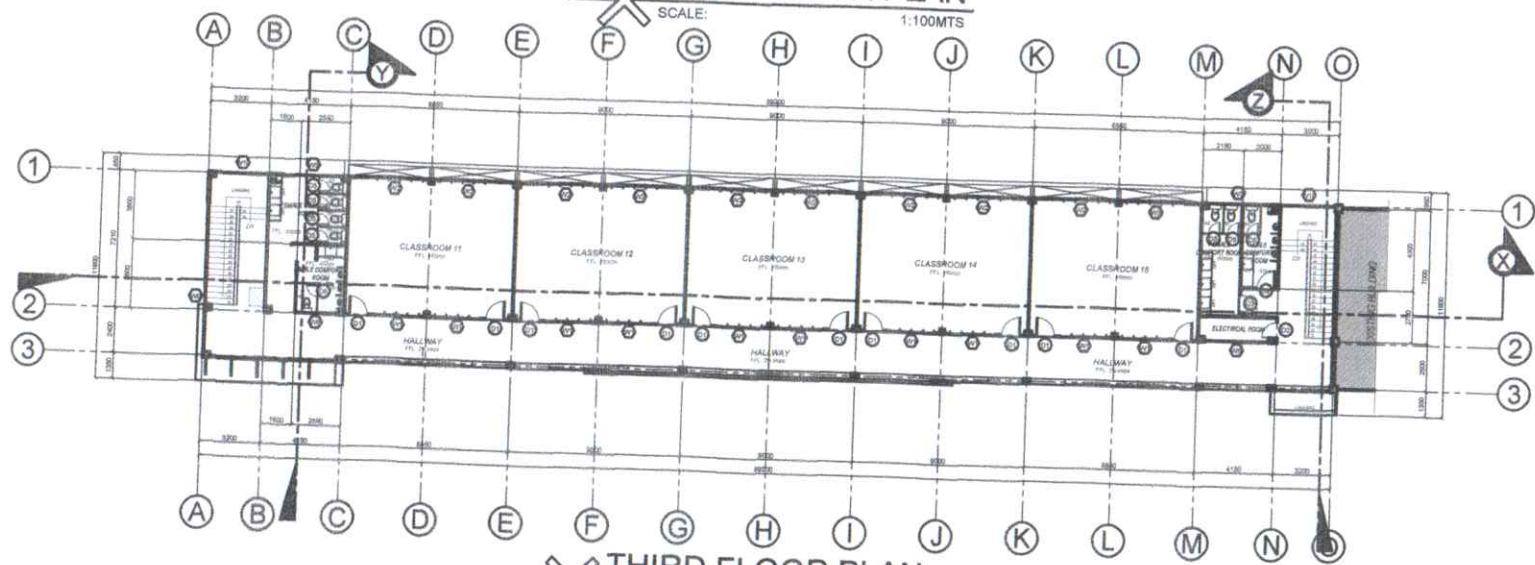
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| PREPARED BY:<br><b>ENGR. RUBEN M. HABANA</b><br>PROJECT ENGINEER | CERTIFIED BY: | P.R.C. No.<br>P.T.R. No.<br>DATE<br>ISSUED<br>TIN | PROJECT TITLE:<br><b>CONSTRUCTION OF 2 STOREY<br/>SCHOOL BUILDING</b> | CHECKED AND REVIEWED BY:<br><b>ERREN S. TELERMO, Ph.D.</b><br>PLANNING DIRECTOR | RECOMMENDING APPROVAL:<br><b>KERT D. PILORA</b><br>MOCTEWA CAMPUS DIRECTOR | APPROVED:<br><b>LILIAN DIANA B. PARREÑO, Ph.D.</b><br>UNIVERSITY PRESIDENT | SHEET CONTENT:<br><b>AS SHOWN</b> | SHEET No.<br><b>A2</b><br>ARCHITECTURAL |
|------------------------------------------------------------------|---------------|---------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------|-----------------------------------------|

JORDAN GUERRAS  
SUPERVISOR

ARCHITECTURAL



**ROOF FLOOR PLAN**  
SCALE: 1:100MTS

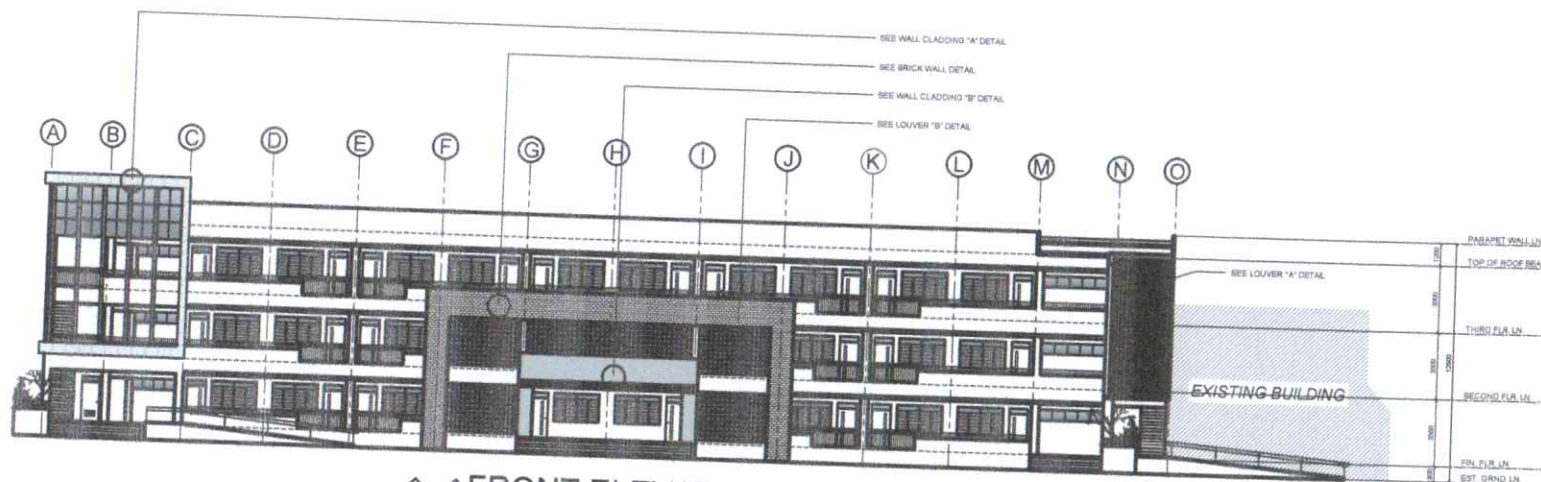


**THIRD FLOOR PLAN**  
SCALE: 1:100MTS

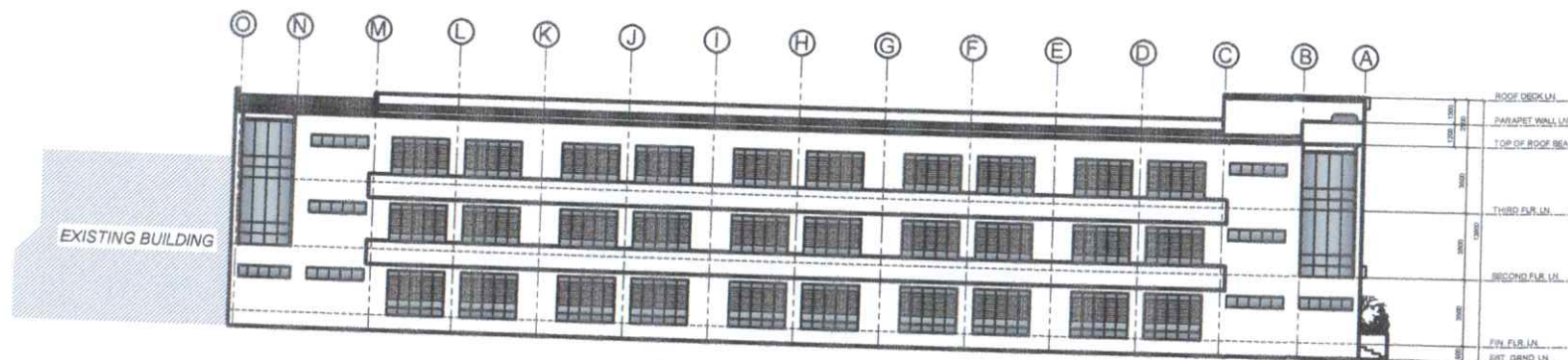
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|  | PREPARED BY:                              | CERTIFIED BY: | P.R.C. No: | PROJECT TITLE:                              | CHECKED AND REVIEWED BY:                      | RECOMMENDING APPROVAL:                   | APPROVED:                                           | SHEET CONTENT: | SHEET No:     |
|                                                                                     | ENGR. RUBEN M. HABAÑA<br>PROJECT ENGINEER |               | P.T.R. No: | CONSTRUCTION OF 2 STOREY<br>SCHOOL BUILDING | EFREN B. TELLERMO, Ph.D.<br>PLANNING DIRECTOR | KERTO P. LORA<br>MODERNA CAMPUS DIRECTOR | LINAN DIAMBA PARRENO, Ph.D.<br>UNIVERSITY PRESIDENT | AS SHOWN       | A3            |
|                                                                                     |                                           |               | DATE:      | LOCATION: ALAGUOC, JORDAN GUERRAS           |                                               |                                          |                                                     |                | ARCHITECTURAL |
|                                                                                     |                                           |               | ISSUED:    |                                             |                                               |                                          |                                                     |                |               |
|                                                                                     |                                           |               | TIN:       |                                             |                                               |                                          |                                                     |                |               |

JORDAN GUIMBAS  
SHEKPH

ARCHITECTURAL



**FRONT ELEVATION**  
SCALE: 1:100MTS



**REAR ELEVATION**  
SCALE: 1:100MTS

|                                                                                     |                                           |               |            |                                             |                                              |                                                  |                                                        |               |               |
|-------------------------------------------------------------------------------------|-------------------------------------------|---------------|------------|---------------------------------------------|----------------------------------------------|--------------------------------------------------|--------------------------------------------------------|---------------|---------------|
|  | PREPARED BY:                              | CERTIFIED BY: | P.R.C. No. | PROJECT TITLE                               | CHECKED AND REVIEWED BY:                     | RECOMMENDING APPROVAL:                           | APPROVED:                                              | SHEET CONTENT | SHEET No.     |
|                                                                                     | ENGR. RUBEN M. HABANA<br>PROJECT ENGINEER |               | P.T.R. No. | CONSTRUCTION OF 2 STOREY<br>SCHOOL BUILDING | EFREN S. TELERMO, Ph.D.<br>PLANNING DIRECTOR | KERT D. PALORA<br>MUNICIPALITY CHIEF OF DISTRICT | LILIAN DIANA A. PARRINO, Ph.D.<br>UNIVERSITY PRESIDENT | AS SHOWN      | A4            |
|                                                                                     |                                           |               | DATE       | LOCATION: ALAGUINOC, JORDAN, GUIMBAS        |                                              |                                                  |                                                        |               | ARCHITECTURAL |
|                                                                                     |                                           |               | ISSUED:    |                                             |                                              |                                                  |                                                        |               |               |
|                                                                                     |                                           |               | TIN:       |                                             |                                              |                                                  |                                                        |               |               |



TABLE OF LAP SPICE &amp; ANCHORAGE LENGTH

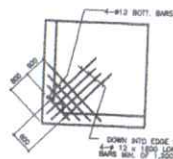
| BAR SIZES (MM) | LAP SPICES LENGTH TYPE "A" | LAP SPICES LENGTH TYPE "B" | ANCHORAGE LENGTH (d) |
|----------------|----------------------------|----------------------------|----------------------|
| #10            | 0.40                       | 0.30                       | 0.60                 |
| #12            | 0.40                       | 0.30                       | 0.60                 |
| #16            | 0.61                       | 0.40                       | 0.80                 |
| #20            | 0.76                       | 0.50                       | 0.80                 |
| #25            | 1.10                       | 0.80                       | 0.88                 |
| #28            | 1.40                       | 1.20                       | 0.88                 |
| #32            | 1.80                       | 1.40                       | 1.12                 |
| #36            | 2.41                       | 1.84                       | 1.43                 |

## NOTES:

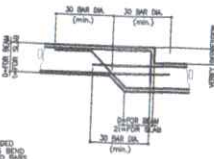
- TYPE "A" BENDED BARS TYPE "B" INDIVIDUAL BARS
- NOT MORE THAN 33% OF THE BARS SHALL BE SPLICED WITHIN THE REQUIRED LAP LENGTH

## NOTES:

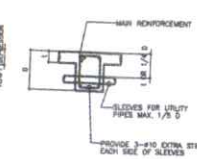
- YIELD STRESS OF HOOPS = 33 KSI
- USE MAXIMUM COLUMN DIAGONAL 1/8 CLEAR HEIGHT OR 18" (450mm) WHICHEVER IS GREATER.
- NUMBER OF HOOP TIES SAME AS PER COLUMN TIE SCHEDULE.
- ALL CONCRETE REINFORCEMENT DETAIL SHOULD BE DONE IN ACCORDANCE WITH ACI DETAILING MANUAL, 1980 PLUS SP-68



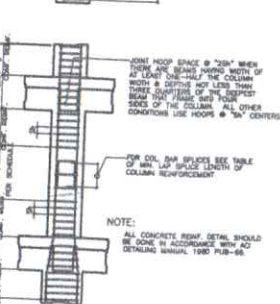
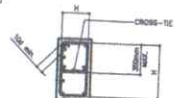
TYPICAL CORNER SLAB DETAIL



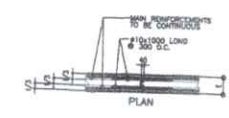
TYPICAL DETAIL FOR BEAM OR SLAB CHANGE SOFFIT



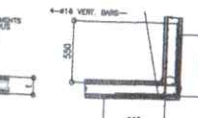
TYP. DET. FOR SLEEVES THRU CONCRETE BEAM



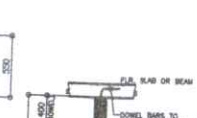
TYPICAL COLUMN ELEV. SHOWING DOWELS AND TIES SPACING



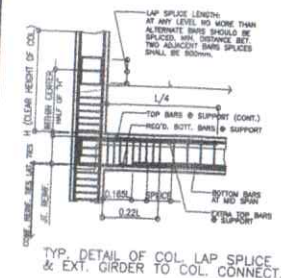
TYPICAL SLAB &amp; BEAM CONSTRUCTION JOINT DET.



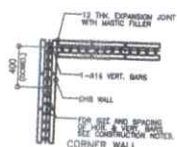
TYPICAL CONNECTION DETAIL OF R.C. WALL AT CORNERS



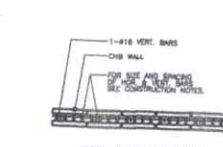
TYP. SECTION OF MASONRY PARTITION REINFORCEMENTS



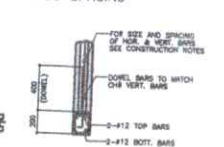
TYP. DETAIL OF COL. LAP SPICE &amp; EXT. GIRDER TO COL. CONNECT.



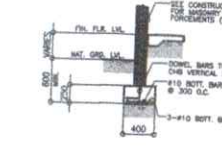
TYP. DET. OF MASONRY WALL



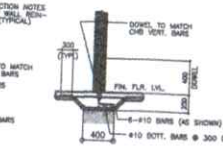
TYP. DET. OF MASONRY WALL



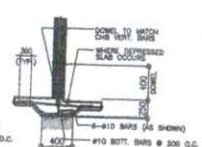
TYP. DET. OF MASONRY WALL



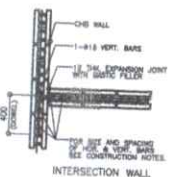
TYP. DET. OF MASONRY WALL



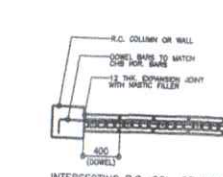
TYP. DET. OF MASONRY WALL



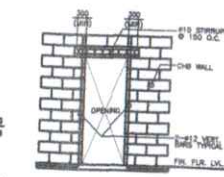
TYP. DET. OF MASONRY WALL



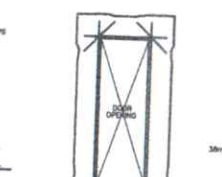
TYP. DET. OF MASONRY WALL



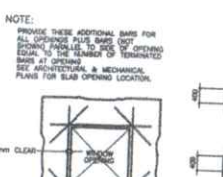
TYP. DET. OF MASONRY WALL



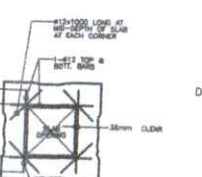
TYP. DET. OF MASONRY WALL



TYP. DET. OF MASONRY WALL



TYP. DET. OF MASONRY WALL



TYP. DET. OF MASONRY WALL

## CONSTRUCTION NOTES

## A. GENERAL

- CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- SHOP DRAWINGS WITH DIRECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE ETC. SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORK IS TO BEGIN CHECK WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR CONDUITS PIPE SLEEVES, ETC., TO BE EMBEDDED IN CONCRETE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING & BRACING OF THE STRUCTURE FOR ALL LOADS THAT MAY BE IMPOSED DURING CONSTRUCTION.

## B. CONCRETE &amp; REINFORCEMENT

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LATEST BUILDING CODE OF AMERICAN CONCRETE INSTITUTE (ACI-318).
- ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY-EIGHT (28) DAYS W/ CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMPS AS FOLLOWS.

| LOCATION                               | 28 DAYS STRENGTH | MAX. SIZE AGGREGATE | MAX. SLUMP     |
|----------------------------------------|------------------|---------------------|----------------|
| ALL OTHERS, INCLUDING SUSPENDED SLABS, | 3000 PSI         | 3/4 IN. (19 MM)     | 4 IN. (100 MM) |
| COLUMNS, R.C. WALLS,                   | 3000 PSI         | 3/4 IN. (19 MM)     | 4 IN. (100 MM) |
| BEAMS, ORDERS                          | 3000 PSI         | 3/4 IN. (19 MM)     | 4 IN. (100 MM) |
| SLAB ON GRADE                          | 2500 PSI         | 3/4 IN. (19 MM)     | 4 IN. (100 MM) |

- ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 33 FOR DIAMETER 10 & 12 AND GRADE 60 FOR DIAMETER 16 AND LARGER BARS.
- IN GENERAL, THE LATEST EDITION OF ACI-318, MANUAL OF STANDARD PRACTICE DETAILING REINFORCED CONCRETE STRUCTURES SHALL BE ADHERED TO UNLESS OTHERWISE SHOWN OR NOTED.

- MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS.

| SUSPENDED SLABS                                             | 3/4 IN. (19 MM)   |
|-------------------------------------------------------------|-------------------|
| SLAB ON GRADE                                               | 1 1/2 IN. (38 MM) |
| WALLS ABOVE GRADE                                           | 1 IN. (25 MM)     |
| BEAM STIRRUPS AND COLUMN TIES                               | 1 1/2 IN. (38 MM) |
| WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS | 2 IN. (50 MM)     |
| WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH          | 3 IN. (75 MM)     |

- SPLICING SHALL BE SECURELY WIRDED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE W/ TABLE 1 (TABLE OF LAP SPICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN OR NOTED.
- ALL JOINTS AND CELLS CONTAINING REINFORCING BARS SHALL BE FILLED WITH CONCRETE GROUT.
- FOR REINFORCEMENTS SEE CONSTRUCTION NOTES.
- CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENTS AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
- ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP FOR SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
- STRIPPING OF FORMS AND SHORES

|                                                         |         |
|---------------------------------------------------------|---------|
| SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED | 24 HRS. |
| WALLS                                                   | 8 DAYS  |
| BEAMS                                                   | 18 HRS. |
|                                                         | 14 DAYS |

## C. MASONRY AND CONCRETE BLOCKS

- ALL NON-LOAD BEARING TYPE CONCRETE BLOCKS SHALL HAVE A UNIT WEIGHT NOT TO EXCEED 80 PCF. FOR LOAD BEARING TYPE, TYPE CONCRETE BLOCKS, A MINIMUM COMPRESSIVE STRENGTH OF 3.45 MPa SHALL BE DEVELOPED.
- PROVIDE 1-#18 VERTICAL BARS AT CORNERS, INTERSECTIONS, END OF WALLS AND EACH SIDE OF OPENINGS.
- LINTEL BEAMS SHALL BEAR AT LEAST 6 INCHES (200 MM) ON EACH SIDE OF MASONRY WALL OPENING.
- WALL REINFORCEMENTS SHALL BE AS FOLLOWS.

| WALL THICKNESS | VERTICAL REINFORCEMENT | HORIZONTAL REINFORCEMENT |
|----------------|------------------------|--------------------------|
| 8 IN. (200 MM) | #12 @ 600 MM           | #10 @ 600 MM             |
| 6 IN. (150 MM) | #12 @ 600 MM           | #10 @ 600 MM             |
| 4 IN. (100 MM) | #10 @ 600 MM           | #10 @ 600 MM             |

- REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS WHERE SPICE DOWELS FROM FOOTING OR SLABS SHALL EXTEND INTO THE BLOCK WALL, A MINIMUM OF 40 BAR DIAMETERS, AND DOWELS TO MATCH.
- PROVIDE 1-#18 VERTICAL BARS AT CORNERS, INTERSECTIONS, END OF WALLS AND EACH SIDE OF OPENINGS.
- ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE SOLIDLY FILLED WITH CONCRETE GROUT (REFER TO SPECIFICATIONS).

## D. FOUNDATION

- SOIL BEARING CAPACITY 100 KPA.
- PILE CAPACITY 50 TONS.
- BOTTOM OF FOOTINGS SHOULD BE SOLID GROUND.
- ACTUAL DEPTH TO BE APPROVED BY THE ENGINEER.
- SOIL BEARING CAPACITY SHALL BE INCREASED BY 33% WHEN COMBINATION WITH SEISMIC OR WIND LOAD.
- ALL COLUMN FOOTINGS SHALL REST ON 0.10m THICK WELL COMPACTED GRAVEL BASE COURSE.
- BACKFILL SHALL BE PLACED IN 0.30m LAYERS AND EACH LAYER SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY.
- WHERE LOOSE/SOFT MATERIAL IS ENCOUNTERED AT DEPTH OF EXCAVATION EXCEEDING 1.5m, REPLACE LOOSE/SOFT MATERIAL WITH 1/2 OF THE DEPTH OF EXCAVATION SOFT MATERIAL ON ALL SIDES WITH DESIGNS BY THE ENGINEER.

## REPUBLIC OF THE PHILIPPINES

OFFICE OF THE BUILDING OFFICIAL

JORDAN GUIMARAS

MAYOR

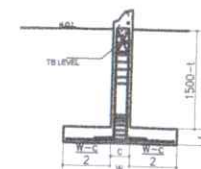
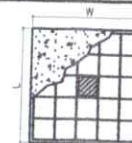
STRUCTURAL



|                                                          |              |            |                                                              |                                                                         |                                                                      |                                                                      |                           |                  |
|----------------------------------------------------------|--------------|------------|--------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------|------------------|
| PREPARED BY<br>ENGR. RUBEN M. HABAÑA<br>PROJECT ENGINEER | CERTIFIED BY | P.R.C. No. | PROJECT TITLE<br>CONSTRUCTION OF 2 STOREY CLASSROOM BUILDING | CHECKED AND REVIEWED BY<br>EFREN S. TELERMO, Ph.D.<br>PLANNING DIRECTOR | RECOMMENDING APPROVAL<br>KERT P. VILLORA<br>MORQUEDA CAMPUS DIRECTOR | APPROVED<br>LILIAN OLIVERA V. BARREDO, Ph.D.<br>UNIVERSITY PRESIDENT | SHEET CONTENT<br>AS SHOWN | SHEET No.<br>1 9 |
| DATE                                                     |              |            | LOCATION: MORQUEDA CAMPUS, ALABUERG, JORDAN, GUIMARAS        |                                                                         |                                                                      |                                                                      |                           |                  |
| ISSUED                                                   |              |            |                                                              |                                                                         |                                                                      |                                                                      |                           |                  |
| TIN                                                      |              |            |                                                              |                                                                         |                                                                      |                                                                      |                           |                  |

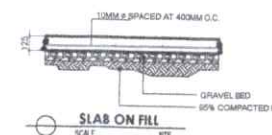
JORDAN GUIMARAS  
REGISTERED

STRUCTURAL



WHERE:  
W = WIDTH OF FTG.  
L = LENGTH OF FTG.  
T = THICKNESS OF FTG.  
C = COLUMN SIZE

FOOTING DETAIL  
SCALE: NTS



| FOOTING MARK | FOOTING DIMENSION (mm) |           |           |               | REINFORCEMENT |          | REMARKS           |
|--------------|------------------------|-----------|-----------|---------------|---------------|----------|-------------------|
|              | LENGTH (L)             | WIDTH (W) | DEPTH (D) | THICKNESS (T) | BAR X         | BAR Y    |                   |
| F1           | 2000                   | 3500      | 2000      | 400           | 13-25mmØ      | 11-25mmØ | RECTANGLE FOOTING |
| F2           | 2000                   | 2000      | 2500      | 300           | 10-25mmØ      | 10-25mmØ | SQUARE FOOTING    |
| F3           | 1500                   | 1500      | 2000      | 300           | 9-25mmØ       | 9-25mmØ  | SQUARE FOOTING    |

SCHEDULE OF FOOTING

| MARK | COLUMN CROSS SECTION |                | REMARKS                                           |
|------|----------------------|----------------|---------------------------------------------------|
|      | AT FOUNDATION LEVEL  | AT FLOOR LEVEL |                                                   |
| C1   |                      |                | USE 10MM Ø TIES SPACED @ 100mm O.C. @ 0.00 O.C.C. |
| C2   |                      |                | USE 10MM Ø TIES SPACED @ 100mm O.C. @ 0.00 O.C.C. |
| C3   |                      |                | USE 10MM Ø TIES SPACED @ 100mm O.C. @ 0.00 O.C.C. |
| C4   |                      |                | USE 10MM Ø TIES SPACED @ 100mm O.C. @ 0.00 O.C.C. |

COLUMN SCHEDULES & DETAILS  
SCALE: 1:2000

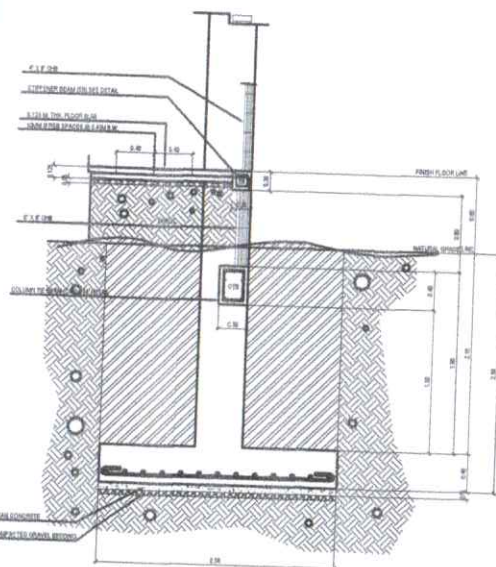
GROUND FLOOR  
STIFFENER BEAM(SB) AND WALL FOOTING LAYOUT

FOUNDATION PLAN

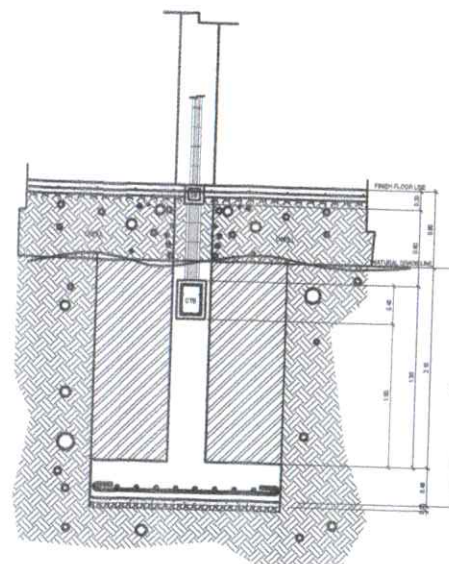
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|--|-------------------------------------------|--------------|------------|------------------------------------------------|----------------------------------------------------|--------------------------------------------|--------------------------------------------------------|---------------|------------|
|  | PREPARED BY                               | CERTIFIED BY | P.R.C. No. | PROJECT TITLE                                  | CHECKED AND REVIEWED BY                            | RECOMMENDING APPROVAL                      | APPROVED                                               | SHEET CONTENT | SHEET No.  |
|  | ENGR. RUBEN M. HABAÑA<br>PROJECT ENGINEER |              | P.T.R. No. | CONSTRUCTION OF 2 STOREY<br>CLASSROOM BUILDING | EFREN S. TELERMO, Ph.D.<br>PLANNING DIVISION       | KERT D. ALLORA<br>MORQUEDA CAMPUS DIRECTOR | LILIAN DIANA A. PARKERO, Ph.D.<br>UNIVERSITY PRESIDENT | AS SHOWN      | 2          |
|  |                                           |              | DATE       |                                                |                                                    |                                            |                                                        |               | 9          |
|  |                                           |              | ISSUED     |                                                |                                                    |                                            |                                                        |               | STRUCTURAL |
|  |                                           |              | TIN        |                                                | LOCATION: MORQUEDA CAMPUS, ALABUG, JORDAN GUIMARAS |                                            |                                                        |               |            |

JORDAN GUIMARAS  
REGISTERED

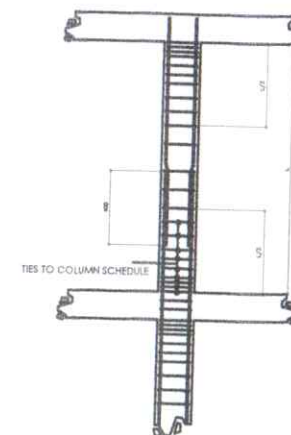
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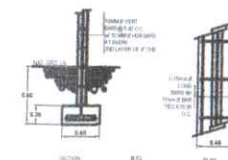
SECTION THRU A-A



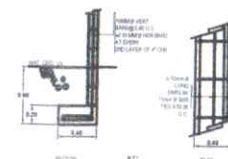
SECTION THRU B-B



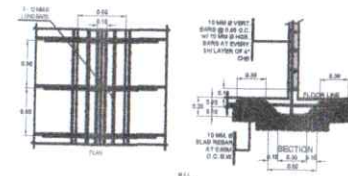
TYPICAL COLUMN DETAIL



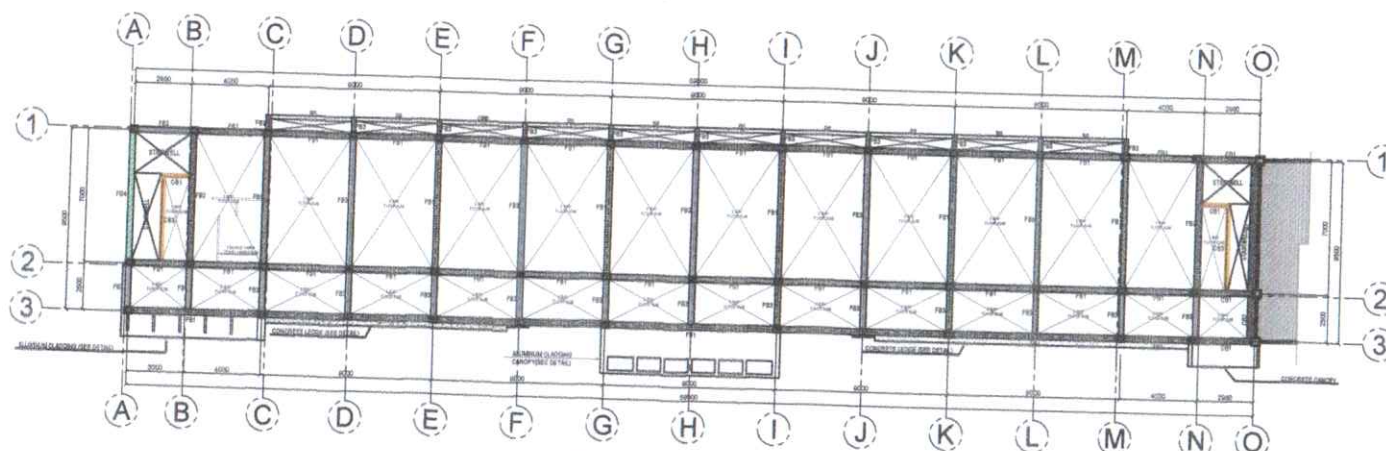
WALL FOOTING 3 DETAIL



WALL FOOTING 2 (WF2) DETAIL

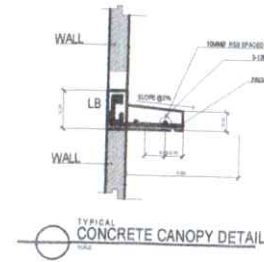
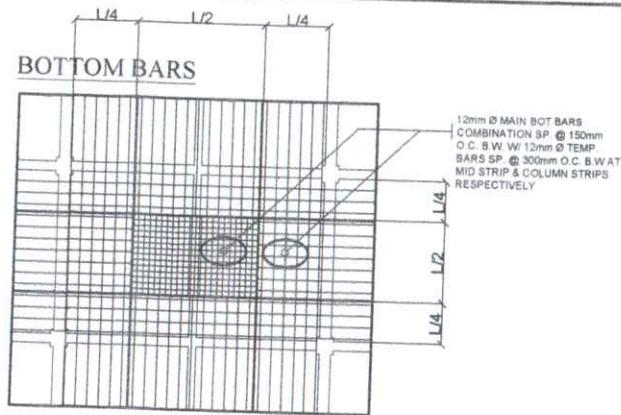
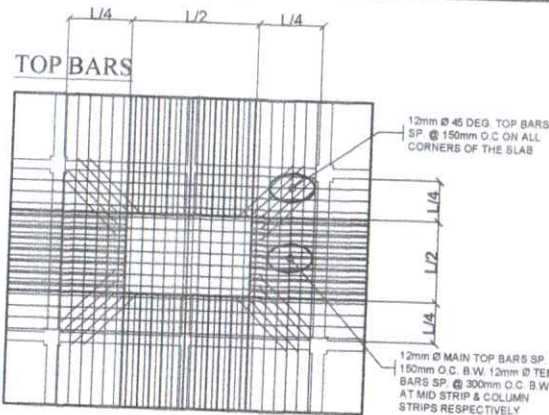


WALL FOOTING 1 (WF1) DETAIL



SECOND FLOOR FRAMING PLAN

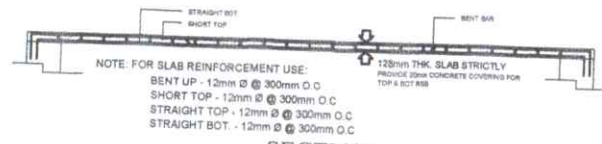
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|  | PREPARED BY<br><b>ENGR. RUBEN M. HABAÑA</b><br>PROJECT ENGINEER | CERTIFIED BY<br> | P.R.C. No.<br>P.T.R. No.<br>DATE<br>ISSUED<br>TIN | PROJECT TITLE<br><b>CONSTRUCTION OF 2 STOREY CLASSROOM BUILDING</b> | CHECKED AND REVIEWED BY<br><b>EFREN S. TELLERMO, Ph.D.</b><br>PLANNING DIRECTOR | RECOMMENDING APPROVAL<br><b>KERYD PINORA</b><br>MOSQUEIDA CAMPUS DIRECTOR | APPROVED<br><b>LILIAN DIANA CARRENO, Ph.D.</b><br>UNIVERSITY PRESIDENT | SHEET CONTENT<br>AS SHOWN | SHEET No.<br><b>3</b> <b>9</b> |
|  |                                                                 |                  |                                                   | LOCATION: MOSQUEIDA CAMPUS, ALABUSOG, JORDAN, GUIMARAS              |                                                                                 |                                                                           |                                                                        |                           | STRUCTURAL                     |



REPUBLIC OF THE PHILIPPINES  
OFFICE OF THE BUILDING OFFICIAL

ALFONSO G. GUMARAS  
BUILDING OFFICIAL

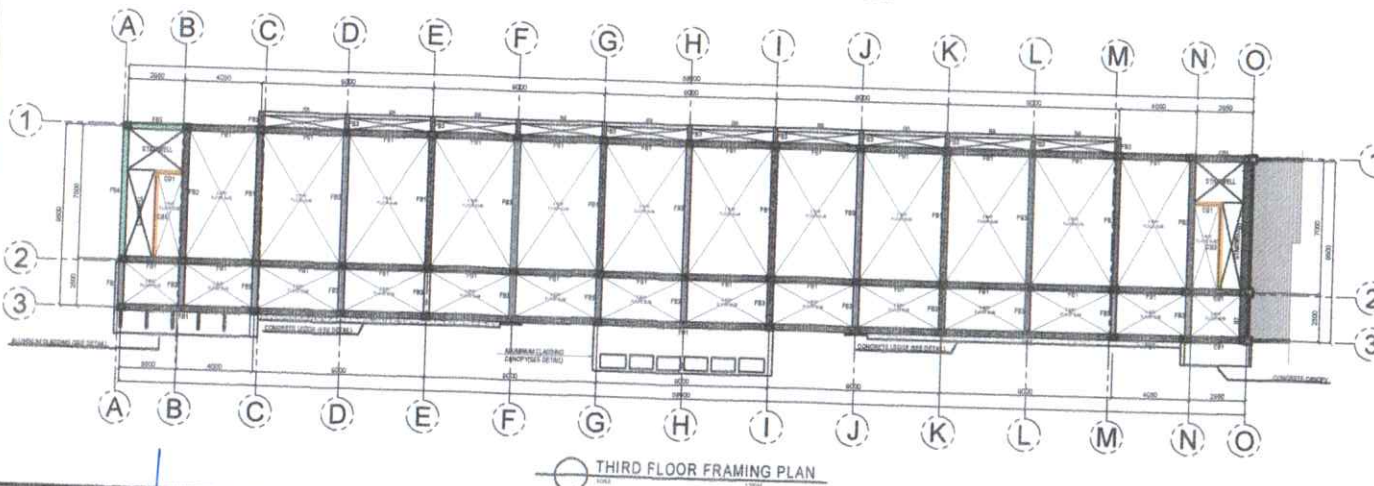
STRUCTURAL



### SECTION TYPICAL SLAB DETAIL

SCALE:

NTS

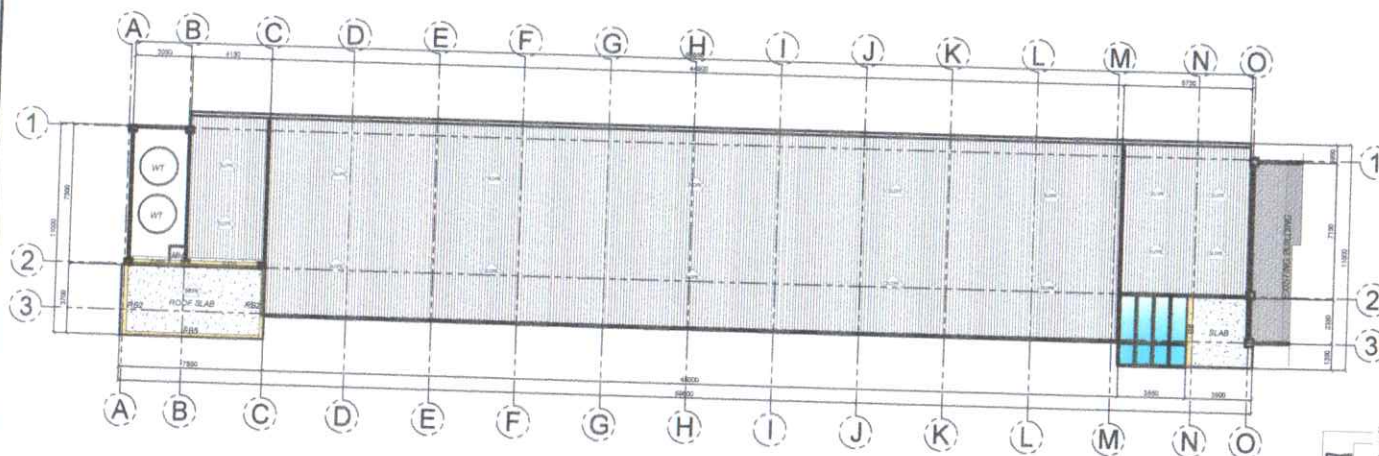


| BEAM SCHEDULE |                    |                           |                                                             |  |
|---------------|--------------------|---------------------------|-------------------------------------------------------------|--|
| NAME          | BEAM CROSS SECTION | BEAM LONGITUDINAL SECTION | REMARKS                                                     |  |
| FB1           |                    |                           | USE TOPWARD BARS AT THE TOP, AND BOTTOM BARS AT THE BOTTOM. |  |
| FB2           |                    |                           | USE TOPWARD BARS AT THE TOP, AND BOTTOM BARS AT THE BOTTOM. |  |
| FB3           |                    |                           | USE TOPWARD BARS AT THE TOP, AND BOTTOM BARS AT THE BOTTOM. |  |
| FB4           |                    |                           | USE TOPWARD BARS AT THE TOP, AND BOTTOM BARS AT THE BOTTOM. |  |
| FB5           |                    |                           | USE TOPWARD BARS AT THE TOP, AND BOTTOM BARS AT THE BOTTOM. |  |
| B6            |                    |                           | USE TOPWARD BARS AT THE TOP, AND BOTTOM BARS AT THE BOTTOM. |  |
| CB1           |                    |                           | USE TOPWARD BARS AT THE TOP, AND BOTTOM BARS AT THE BOTTOM. |  |
| B7            |                    |                           | USE TOPWARD BARS AT THE TOP, AND BOTTOM BARS AT THE BOTTOM. |  |
| CB3           |                    |                           | USE TOPWARD BARS AT THE TOP, AND BOTTOM BARS AT THE BOTTOM. |  |
| CB4           |                    |                           | USE TOPWARD BARS AT THE TOP, AND BOTTOM BARS AT THE BOTTOM. |  |
| RB1           |                    |                           | USE TOPWARD BARS AT THE TOP, AND BOTTOM BARS AT THE BOTTOM. |  |
| RB2           |                    |                           | USE TOPWARD BARS AT THE TOP, AND BOTTOM BARS AT THE BOTTOM. |  |
| SB            |                    |                           | USE TOPWARD BARS AT THE TOP, AND BOTTOM BARS AT THE BOTTOM. |  |

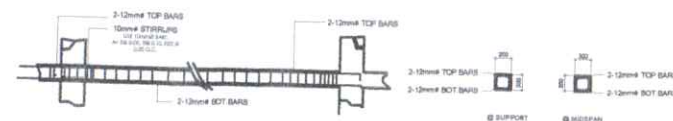
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|  | DESIGNED BY:          | CERTIFIED BY: | P.E.C. No.: | PROJECT TITLE:                                        | CHECKED AND REVIEWED BY:  | RECOMMENDING APPROVAL:  | APPROVED:                     | SHEET CONTENT: | SHEET No.  |
|  | ENGR. RUBEN M. HABANA |               | P.T.R. No.: | CONSTRUCTION OF 2 STOREY CLASSROOM BUILDING           | ERREN S. TELLERMO, Ph.D.  | KURT D. LILORA          | LILIAN DANA S. PARRINO, Ph.D. | AS SHOWN       | 4          |
|  | PROJECT ENGINEER      |               | DATE:       | LOCATION: MOQUEDA CAMPUS, ALAGUINOC, JORDAN, GUIMARAS | ALAGUINOC CAMPUS DIRECTOR | MOQUEDA CAMPUS DIRECTOR | UNIVERSITY PROJECT            |                | 9          |
|  |                       |               | ISSUED:     |                                                       |                           |                         |                               |                |            |
|  |                       |               | TIN:        |                                                       |                           |                         |                               |                | STRUCTURAL |

JORDAN GUIMARAS  
MORQUEDA

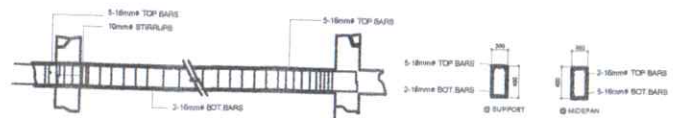
STRUCTURAL



ROOF PLAN



STIFFENER BEAM (SB) DETAIL  
SCALE: 1/8" = 1'-0"

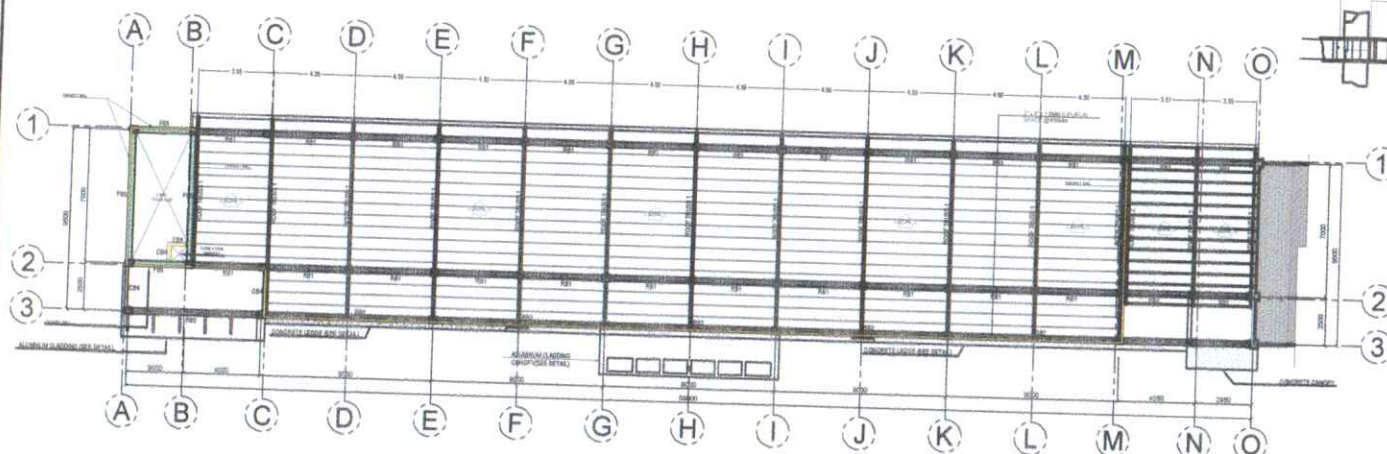


COLUMN TIE BEAM DETAIL (CTB)  
SCALE: 1/8" = 1'-0"



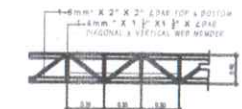
FASCIA BOARD HOLDER DETAIL  
SCALE: 1/8" = 1'-0"

LINTEL BEAM DETAIL  
SCALE: 1/8" = 1'-0"

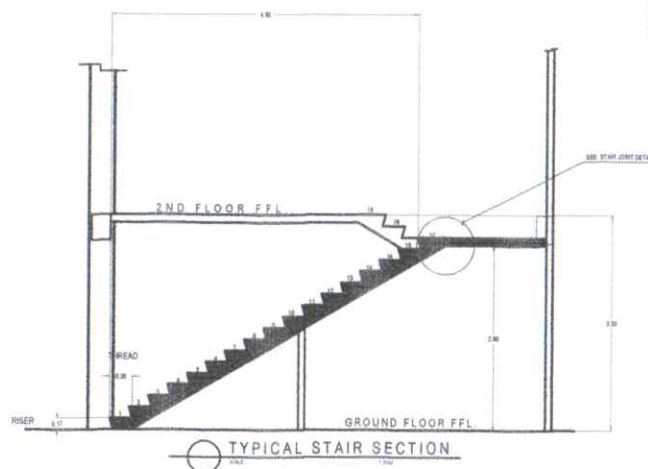


ROOF BEAM PLAN  
SCALE: 1/8" = 1'-0"

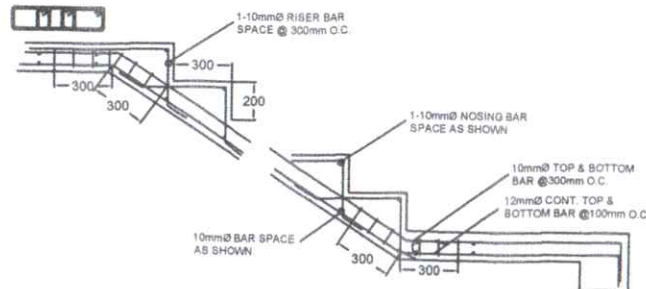
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|  | PREPARED BY:                              | CERTIFIED BY: | P.R.C. No. | PROJECT TITLE:                                        | CHECKED AND REVIEWED BY:                     | RECOMMENDING APPROVAL:                     | APPROVED:                                          | SHEET CONTENT: | SHEET No.  |
|  | ENGR. RUBEN M. HABANA<br>PROJECT ENGINEER |               | P.T.R. No. | CONSTRUCTION OF 2 STOREY<br>CLASSROOM BUILDING        | EFREN S. TEJERMO, Ph.D.<br>PLANNING DIRECTOR | KERT D. PINORA<br>MORQUEDA CAMPUS DIRECTOR | LILAN DIANOR PAREÑO, Ph.D.<br>UNIVERSITY PRESIDENT | AS SHOWN       | 5          |
|  |                                           |               | GATE       | LOCATION: MORQUEDA CAMPUS, ALAGUISO, JORDAN, GUIMARAS |                                              |                                            |                                                    |                | 9          |
|  |                                           |               | ISSUED     |                                                       |                                              |                                            |                                                    |                | STRUCTURAL |
|  |                                           |               | TIN        |                                                       |                                              |                                            |                                                    |                |            |



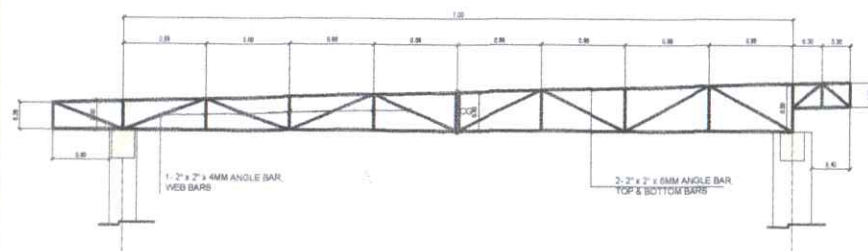
CENTER GIRT (CG) DETAIL  
SCALE: 1/20' = 1'



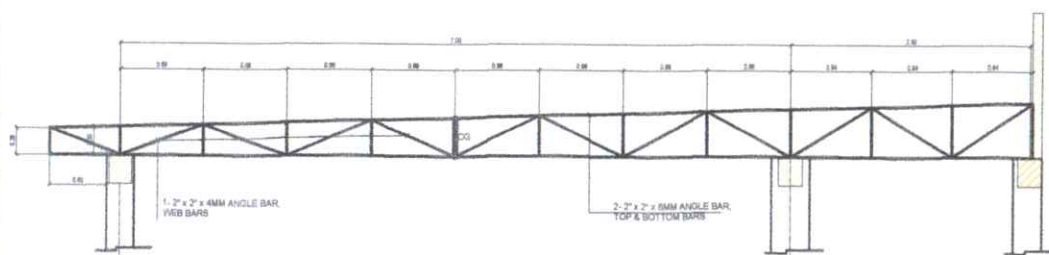
TYPICAL STAIR SECTION



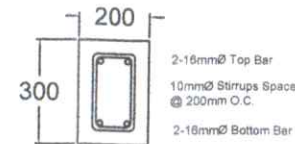
STAIR JOINT DETAIL



ROOF TRUSS 2 DETAIL



ROOF TRUSS 1 DETAIL



STAIR BEAM DETAIL

|  |                                                                  |               |                                                   |                                                                                                                               |                                                                                  |                                                                              |                                                                            |                            |                                |
|--|------------------------------------------------------------------|---------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------|--------------------------------|
|  | PREPARED BY:<br><b>ENGR. RUBEN M. HABANA</b><br>PROJECT ENGINEER | CERTIFIED BY: | P.E.C. No.<br>P.T.R. No.<br>DATE<br>ISSUED<br>TIN | PROJECT TITLE:<br><b>CONSTRUCTION OF 2 STOREY CLASSROOM BUILDING</b><br>LOCATION: MOSQUEDA CAMPUS, ALAGUSOC, JORDAN, GUIMARAS | CHECKED AND REVIEWED BY:<br><b>EFREN S. TELIERMO, Ph.D.</b><br>PLANNING DIRECTOR | RECOMMENDING APPROVAL:<br><b>KRIST D. PALORA</b><br>MOSQUEDA CAMPUS DIRECTOR | APPROVED:<br><b>LILIAN DIANA B. PARRERO, Ph.D.</b><br>UNIVERSITY PRESIDENT | SHEET CONTENT:<br>AS SHOWN | SHEET No.<br>6 9<br>STRUCTURAL |
|--|------------------------------------------------------------------|---------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------|--------------------------------|

JORDAN GUIMARAS  
MAYOR

STRUCTURAL

## CONSTRUCTION NOTES

### 1.0 GENERAL

- 1.1 THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS, THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS, FOR VERIFICATION OF LOCATION AND DIMENSIONS OF OPENINGS, GROOVES, REGLETTS, PIPE SLEEVES, CONDUITS, EMBEDDED OR ATTACHED ITEMS TO CONCRETE, ETC.
- 1.2 ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
- 1.3 GENERAL NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED.
- 1.4 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- 1.5 ALL BAR DIAMETERS AND SPACINGS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- 1.6 NO CHANGE IN SIZE OF DIMENSIONS OF STRUCTURAL ELEMENTS OR ANY DRAWINGS OR SLEEVES EXCEPT DETAILED ON THE SHOP DRAWINGS SHALL BE PERMITTED THROUGH ANY STRUCTURAL ELEMENTS WITHOUT THE APPROVAL OF THE ENGINEER'S REPRESENTATION.

### 2.0 CONCRETE & REINFORCEMENT STEEL

- 2.1 MINIMUM CONCRETE STRENGTH FOR ALL REINFORCED BARS SHALL BE AS FOLLOWS:

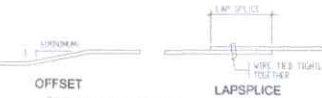
| MEMBER                    | LOCATION OR CONDITION            | THICKNESS OF COVER | FIGURE |
|---------------------------|----------------------------------|--------------------|--------|
| FOOTING / FOUNDATION SLAB | SIDE                             | 75                 |        |
|                           | BOTTOM                           | 75                 |        |
| TE BEAM / FOUNDATION SLAB | TOP                              | 40                 |        |
|                           | BOTTOM                           | 75                 |        |
| COLUMN                    | UPPER PART OF GROUND FLOOR LEVEL | 40                 |        |
|                           | LOWER PART OF GROUND FLOOR LEVEL | 50                 |        |
| BEAM                      | INDOORS FACE TOP, SIDE & BOTTOM  | 40                 |        |
|                           | OUTDOORS FACE TOP, SIDE & BOTTOM | 50                 |        |
| SLAB AND STAIR            | TOP                              | 20                 |        |
|                           | BOTTOM                           | 20                 |        |
| WALL                      | STRUCTURAL WALL                  | 30                 |        |
|                           | NON-STRUCTURAL WALL              | 20                 |        |

2. EXCLUDING LEVELING CONCRETE
- 2.2 REINFORCING BARS SHALL BE FREE OF RUST, GREASE OR OTHER MATERIALS LIKELY TO IMPAIR BOND.
- 2.3 ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE APPLIED MORTAR OR GROUT.
- 2.4 BARS SPICES SHALL BE SECURELY WIRE TIED TOGETHER. SPICES IN REINFORCED CONCRETE BEAMS, COLUMNS AND WALLS SHALL BE AS SHOWN IN THE DETAILS. FOR NON-STRUCTURAL WALLS, MASONRY WALLS AND SLABS, SPICES SHALL LAP A MINIMUM OF 40 BAR DIAMETERS AND SHALL BE STAGGERED WHENEVER POSSIBLE.
- 2.5 SPICES REQUIRED IN THE REINFORCEMENT OF BEAMS/GIRDERS FRAMING INTO COLUMNS SHALL NOT BE LOCATED WITHIN THE COLUMN NOR WITHIN A DISTANCE OF TWICE THE BEAM/GIRDER DEPTH FROM THE FACE OF THE COLUMN. AT LEAST TWO CLOSED STIRRUP TIES SHALL BE PROVIDED AT ALL SPICES.
- 2.6 LAP SPICES SHALL BE PROVIDED WITHIN THE CENTER HALF OF COLUMN HEIGHT AND THE SPICE LENGTH SHALL NOT BE LESS THAN 1.3 TIMES THE DEVELOPMENT LENGTH,  $L_d$ .
- 2.7 MINIMUM LAP SPICE REQUIREMENT FOR REINFORCED CONCRETE MEMBERS SHALL BE AS FOLLOWS:

| BAR DIAMETER (mm) | D (mm) | 1 (mm) |
|-------------------|--------|--------|
| 10                | 60     | 125    |
| 12                | 72     | 145    |
| 16                | 96     | 190    |
| 20                | 120    | 240    |
| 25                | 150    | 300    |
| 28                | 175    | 335    |
| 32                | 200    | 380    |
| 36                | 225    | 440    |

DEVELOPMENT LENGTH OF BARS

| PARAMETERS        |                         | DEVELOPMENT LENGTH OF BARS |                         |
|-------------------|-------------------------|----------------------------|-------------------------|
| BAR DIAMETER (mm) | CONCRETE STRENGTH (MPa) | DEVELOPMENT LENGTH (mm)    | DEVELOPMENT LENGTH (mm) |
| 10                | 20                      | 125                        | 125                     |
| 12                | 20                      | 145                        | 145                     |
| 16                | 20                      | 190                        | 190                     |
| 20                | 20                      | 240                        | 240                     |
| 25                | 20                      | 300                        | 300                     |
| 28                | 20                      | 335                        | 335                     |
| 32                | 20                      | 380                        | 380                     |
| 36                | 20                      | 440                        | 440                     |



OFFSET  
DEVELOPMENT LENGTH,  $L_d$   
SHALL BE AS FOLLOWS:

- (a) FOR BARS W/ SIDE COVER (NORMAL TO PLANE HOOK) NOT LESS THAN  $8d$  AND FOR 90° HOOK, COVER ON BAR EXTENSION BEYOND HOOK NOT LESS THAN  $30mm$ , USE 0.7  $L_d$ .
- (b) FOR BARS W/ HOOK ENCLOSED VERTICALLY OR OR HORIZONTALLY W/IN TIES OR STIRRUP TIES SPACED ALONG THE FULL DEVELOPMENT LENGTH  $L_d$  NOT GREATER THAN  $3d$ , USE 0.8  $L_d$ .
- (c) FOR BARS NOT INCLUDED IN (a) & (b), USE 1.0  $L_d$ .

DEVELOPMENT LENGTH OF ANCHOR BARS

| BAR DIAMETER (mm) | CONCRETE STRENGTH (MPa) | DEVELOPMENT LENGTH (mm) | DEVELOPMENT LENGTH (mm) |
|-------------------|-------------------------|-------------------------|-------------------------|
| 10                | 20                      | 125                     | 125                     |
| 12                | 20                      | 145                     | 145                     |
| 16                | 20                      | 190                     | 190                     |
| 20                | 20                      | 240                     | 240                     |
| 25                | 20                      | 300                     | 300                     |
| 28                | 20                      | 335                     | 335                     |
| 32                | 20                      | 380                     | 380                     |
| 36                | 20                      | 440                     | 440                     |

| ELEMENT              | MINIMUM COVER         |
|----------------------|-----------------------|
| R.C. BEAMS           | 50mm FOR EXPOSED SIDE |
| CANALISER R.C. BEAMS | 50mm FOR EXPOSED SIDE |
| R.C. SLABS           | 50mm FOR EXPOSED SIDE |

### 3.0 STRUCTURAL STEEL

- 3.1 ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE NINTH EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL UNLESS OTHERWISE SHOWN OR NOTED.
- 3.2 CONTRACTOR SHALL FURNISH ALL PLATES, CORNERS, CONNECTIONS, ETC. REQUIRED FOR COMPLETION OF THE STRUCTURE, EVEN IF EVERY SUCH ITEM IS NOT SHOWN ON THE CONTRACT DRAWINGS.
- 3.3 WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY CODE AWS D 1.1 UNLESS INDICATED OTHERWISE. WELDING ELECTRODES SHALL BE E70XX.
- 3.4 ALL BOLTS AND THREADED FASTENERS SHALL BE ASTM A 325 TYPE HIGH STRENGTH BOLTS, UNLESS INDICATED OTHERWISE.
- 3.5 ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A 307 UNLESS INDICATED OTHERWISE.

### 4.0 MASONRY

- 4.1 ALL CONCRETE HOLLOW BLOCKS MASONRY WALLS SHALL BE Laid IN RUNNING BOND INTERLOCKING COURSE WITH FULL MORTAR BEDDING.
- 4.2 ALL SILLS SHALL BE SOLIDLY FILLED WITH CONCRETE GROUT FOUR (4) INCHES NOT TO EXCEED 1.50 M.
- 4.3 W/T RATIO  $\leq 30$ .

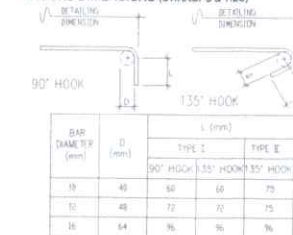
### 5.0 FOUNDATION

- 5.1 FOOTING FOR CHD WALLS AND OTHER MAJOR STRUCTURES SHALL BE EMBEDDED AT LEAST 600mm FROM THE FINISH GRADE LINE UNLESS INDICATED OTHERWISE.
- 5.2 ALL FOUNDATIONS SHOULD HAVE 50 mm THICK GRAVEL BEDDING OR SOME TWO LEAN CONCRETE UNLESS INDICATED OTHERWISE.

### 6.0 SLAB ON GRADE AND BACK FILLING

- 6.1 STRUCTURAL FILL PLACED UNDER SLAB ON GRADE SHALL BE COMPACTED TO 95 PERCENT OF DRY UNIT WEIGHT AS DETERMINED BY ASTM D 1557, OR EQUAL.
- 6.2 CONSTRUCTION JOINTS FOR SLABS ON GRADE SHALL BE PROVIDED FOR AREA NOT GREATER THAN 100 SQUARE METERS AND MAXIMUM JOINT SPACING AT 12 M.

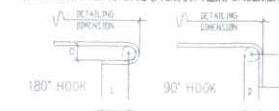
### HOOKS DIMENSIONS (STIRRUPS & TIES)



NOTE: TYPE I FOR GENERAL USE

TYPE II FOR DESIGN USE: TOP ALL COLUMNS AND ALL BEAMS CONNECTED TO COLUMNS

### HOOKS DIMENSIONS (PRIMARY REINFORCEMENTS)



|  |                       |               |            |                                                       |                          |                          |                                |               |            |
|--|-----------------------|---------------|------------|-------------------------------------------------------|--------------------------|--------------------------|--------------------------------|---------------|------------|
|  | PREPARED BY:          | CERTIFIED BY: | P.R.C. No. | PROJECT TITLE                                         | CHECKED AND REVIEWED BY: | RECOMMENDING APPROVAL:   | APPROVED:                      | SHEET CONTENT | SHEET No.  |
|  | ENGR. RUBEN M. HABANA |               |            | CONSTRUCTION OF 2 STOREY CLASSROOM BUILDING           | ERREN S. TELERMO, Ph.D.  | KERT D. BALORA           | LINAN DIANE E. PAMERICO, Ph.D. | AS SHOWN      | 7          |
|  | PROJECT ENGINEER      |               |            |                                                       | REGISTERED PROFESSIONAL  | MOSQUEDA CAMPUS DIRECTOR | UNIVERSITY PRESIDENT           |               | 9          |
|  | ISSUED:               |               |            | LOCATION: MOSQUEDA CAMPUS, ALABUGOC, JORDAN, GUIMARAS |                          |                          |                                |               | STRUCTURAL |

TYP. TRENCH DETAIL

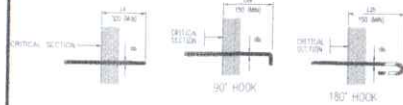
TYP. SLAB DEPRESSION DETAIL

### VERTICAL STIFFNESS

DETAIL OF SLAB OPENING

ELEVATION  
TYP. COLUMN ELEVATION

| XRD<br>Sample | LOCAL ORDER (nm) (LOROS)               |                                        |                                        |                                        |                                        |
|---------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
|               | $L_{(111)}^{\text{LOROS}}$<br>(111) nm | $L_{(110)}^{\text{LOROS}}$<br>(110) nm | $L_{(100)}^{\text{LOROS}}$<br>(100) nm | $L_{(040)}^{\text{LOROS}}$<br>(040) nm | $L_{(004)}^{\text{LOROS}}$<br>(004) nm |
| 1             | 133                                    | 260                                    | 30                                     | 107                                    | 124                                    |
| 2             | 137                                    | 460                                    | 274                                    | 349                                    | 335                                    |
| 3             | 93                                     | 76                                     | 60                                     | 111                                    | 6.6                                    |
| 4             | 93                                     | 676                                    | 477                                    | 172                                    | 560                                    |
| 5             | 130                                    | 1044                                   | 630                                    | 492                                    | 400                                    |
| 6             | 150                                    | 1075                                   | 603                                    | 472                                    | 382                                    |
| 7             | 151                                    | 1130                                   | 653                                    | 515                                    | 382                                    |
| 8             | 158                                    | 1108                                   | 667                                    | 507                                    | 378                                    |



#### ARRANGEMENTS OF BEAM STIRRUPS

TYP. BEAM DETAIL

SLAB ANCHORAGE

BEAM ANCHORAGE

(EXTERIOR / INTERIOR)  
TYP. DROP WALL DETAIL



### WEB BARS & FASTENING BARS

TYP. CANTILEVER BEAM

TYP. BEAM DETAIL

TYP. CONSTRUCTION JOINT DETAIL

### PLAN

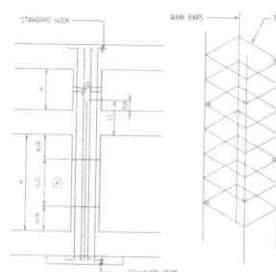
HORIZONTAL STIFFENER

TYP. PLANTED R.C. COLUMN

SLAB ANCHORAGE BEAM ANCH

TOP ANCHORAGE DETAIL OF EXTERIOR CHB WALL

BEAM ANCHORAGE



ARRANGEMENTS OF COLUMN TIES

TYP. ELEVATION OF BEAM

(W/ BEAM SUPPORT)  
TYP. ELEVATION OF BEAM

STEPPED BEAM-COLUMN CONNECTION DETAIL

SLAB ANCHORAGE

BEAM ANCHORAGE

TOP ANCHORAGE DETAIL OF EXTERIOR CHB WALL

REPUBLIC OF THE PHILIPPINES  
OFFICE OF THE BUILDING OFFICIAL

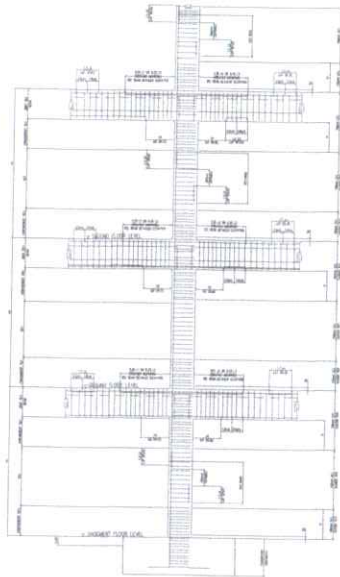
JORDAN GIMARAS  
GENERALIST

## STRUCTURAL

[illegible]

JORDAN GUIMARAS

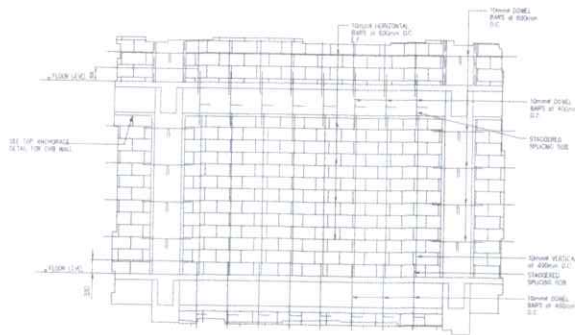
STRUCTURAL



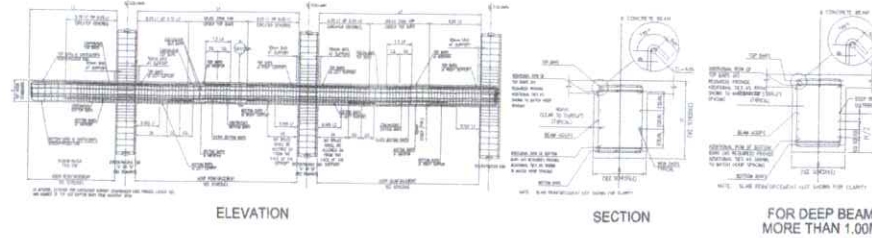
TYPICAL COLUMN ELEVATION

NOTES:

- \*\*\*NO VERTICAL BAR SPLICE BETWEEN GROUND FLOOR LEVEL AND SECOND FLOOR LEVEL SHALL BE DONE
- \*\*\*IN CASE OF ANY DISCREPANCY BETWEEN NO. OF BARS IN DRAWINGS AND TEXT, THE TEXT LABEL INDICATED SHALL GOVERN.



TYP. CHB WALL ELEVATION



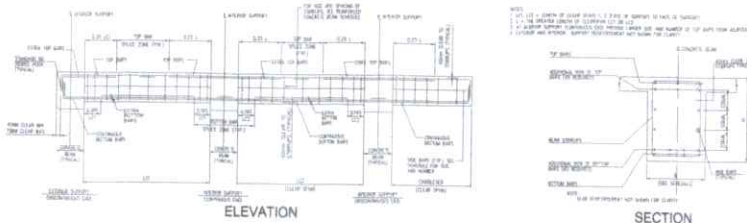
ELEVATION

SECTION

TYPICAL SEISMIC GIRDER ELEVATION

FOR DEEP BEAM  
MORE THAN 1.00M

- NOTES:
1. ALL REINFORCEMENT SHALL BE PLACED ON SCAFFOLDING (LAP JOINTS AND WELDED JOINTS) TO BE USED.
  2. ALL REINFORCEMENT SHALL BE PLACED ON SCAFFOLDING (LAP JOINTS AND WELDED JOINTS) TO BE USED.
  3. ALL REINFORCEMENT SHALL BE PLACED ON SCAFFOLDING (LAP JOINTS AND WELDED JOINTS) TO BE USED.
  4. ALL REINFORCEMENT SHALL BE PLACED ON SCAFFOLDING (LAP JOINTS AND WELDED JOINTS) TO BE USED.
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  8. ALL REINFORCEMENT SHALL BE PLACED ON SCAFFOLDING (LAP JOINTS AND WELDED JOINTS) TO BE USED.
  9. ALL REINFORCEMENT SHALL BE PLACED ON SCAFFOLDING (LAP JOINTS AND WELDED JOINTS) TO BE USED.
  10. ALL REINFORCEMENT SHALL BE PLACED ON SCAFFOLDING (LAP JOINTS AND WELDED JOINTS) TO BE USED.
- TYPE OF STIRRUPS
- A B C D

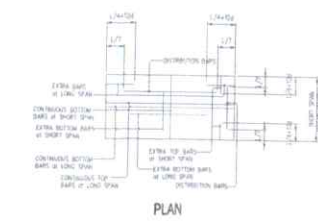
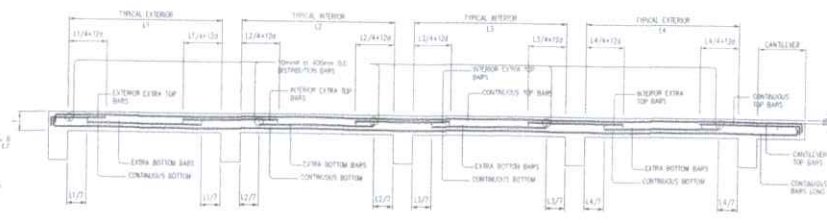


ELEVATION

SECTION

TYPICAL GRAVITY REINFORCED CONCRETE BEAM DETAIL

ELEVATION OF R.C. SLAB



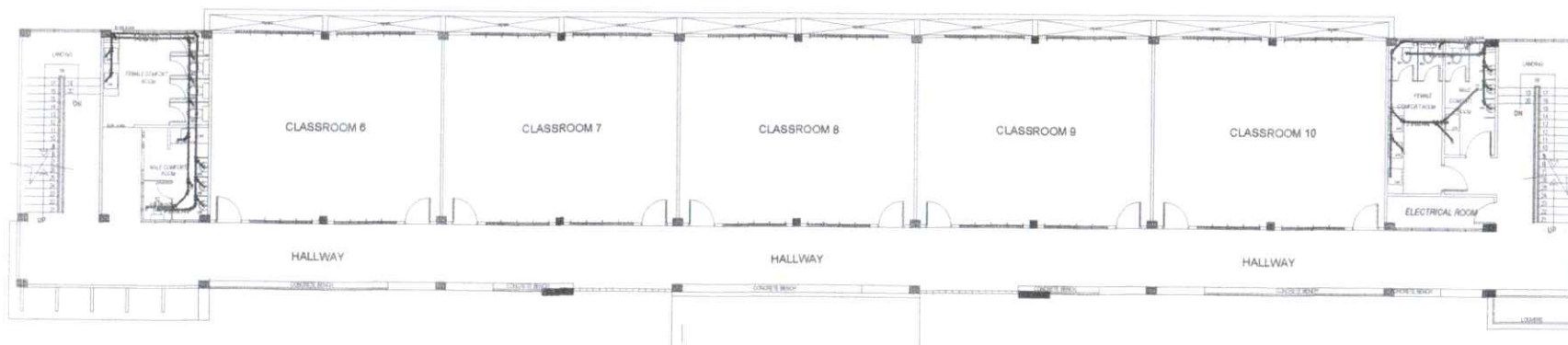
PLAN

| SCHEDULE OF REINFORCED CONCRETE SLAB |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|
| SLAB                                 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| MARKING                              | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1                                    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 2                                    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 3                                    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 4                                    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 5                                    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 6                                    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 7                                    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 8                                    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 9                                    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

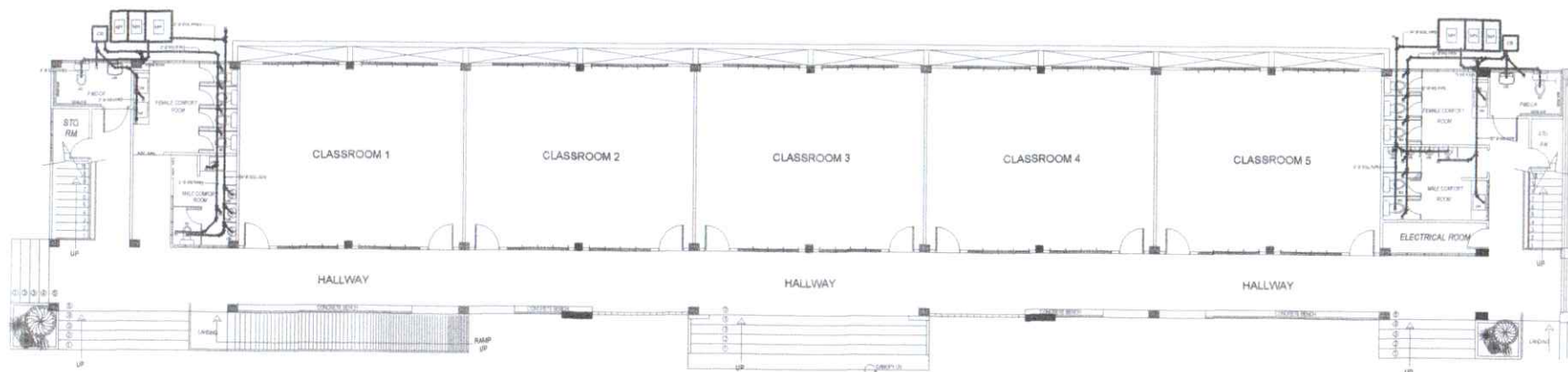
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|--|-------------------------------------------|--------------|------------|-----------------------------------------------------|-----------------------------------------------------------|---------------------------------------------|-------------------------------------------------------|---------------|------------|
|  | PREPARED BY                               | CERTIFIED BY | P.R.C. No. | PROJECT TITLE                                       | CHECKED AND REVISION BY                                   | RECOMMENDING APPROVAL                       | APPROVED                                              | SHEET CONTENT | SHEET No.  |
|  | ENGR. RUBEN M. HABANA<br>PROJECT ENGINEER |              | P.T.R. No. | CONSTRUCTION OF 2 STOREY<br>CLASSROOM BUILDING      | EREN S. TELLERMO, Ph.D.<br>REGISTERED STRUCTURAL ENGINEER | KERT D. PINORA<br>REGISTERED CIVIL ENGINEER | LILIAN JUANES PARRINO, Ph.D.<br>UNIVERSITY RESEARCHER | AS SHOWN      | 9          |
|  |                                           |              | DATE       |                                                     |                                                           |                                             |                                                       |               | 9          |
|  |                                           |              | ISSUED     |                                                     |                                                           |                                             |                                                       |               | STRUCTURAL |
|  |                                           |              | TIN        | LOCATION: MOSQUEDA CAMPUS, ALABUG, JORDAN, GUIMARAS |                                                           |                                             |                                                       |               |            |

JORDAN GUIMARAS  
PLUMBING

PLUMBING



SECOND FLOOR  
SANITARY LAY-OUT PLAN  
SCALE: NTS

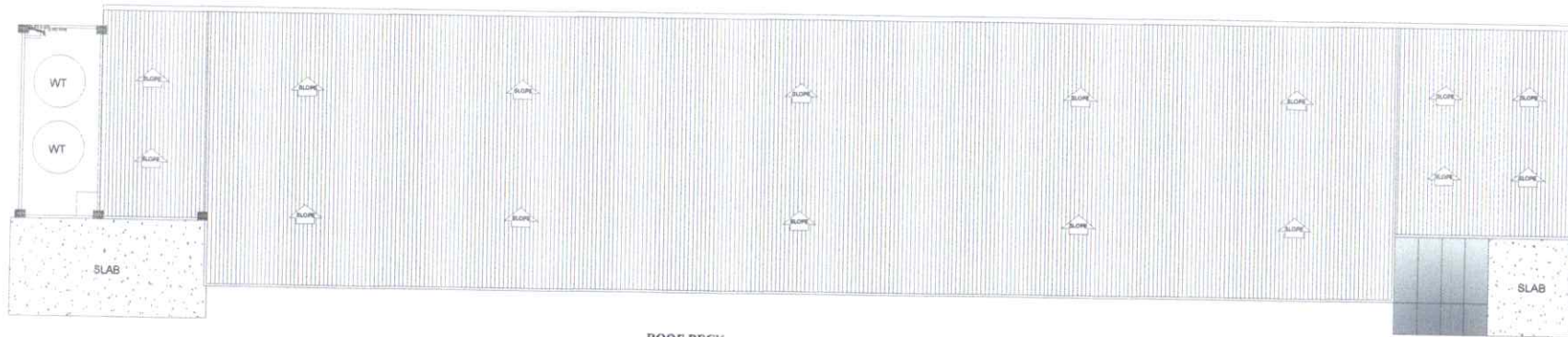


GROUND FLOOR  
SANITARY LAY-OUT PLAN  
SCALE: NTS

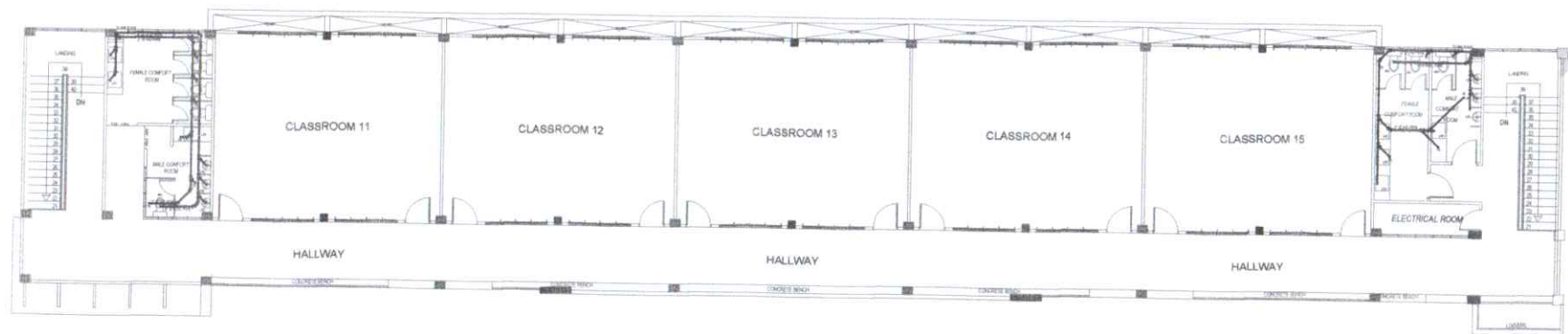
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|--|-----------------------------------------------------------|---------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------|-----------------------------|
|  | PREPARED BY:<br>ENGR. RUBEN M. HABAÑA<br>PROJECT ENGINEER | CERTIFIED BY: | P.R.C. No.<br>P.T.R. No.<br>DATE<br>ISSUED<br>TR: | PROJECT TITLE:<br>CONSTRUCTION OF 2-STOREY<br>CLASSROOM BUILDING<br>LOCATION: MOSQUEDA CAMPUS, ALAGUIGOC, JORDAN, GUIMARAS | CHECKED AND REVIEWED BY:<br>EFREN S. TELLEZANO, Ph.D.<br>PLANNING DIRECTOR | RECOMMENDING APPROVAL:<br>KERTYEN LORA<br>MOSQUEDA CAMPUS DIRECTOR | APPROVED:<br>LILIAN DANIEL V. ARNEJO, Ph.D.<br>UNIVERSITY PRESIDENT | SHEET CONTENT:<br>AS SHOWN | SHEET No.<br>16<br>PLUMBING |
|--|-----------------------------------------------------------|---------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------|-----------------------------|

JORDAN GUIMARAS  
PLUMBING

PLUMBING



ROOF DECK  
SANITARY LAY-OUT PLAN  
SCALE: NTS

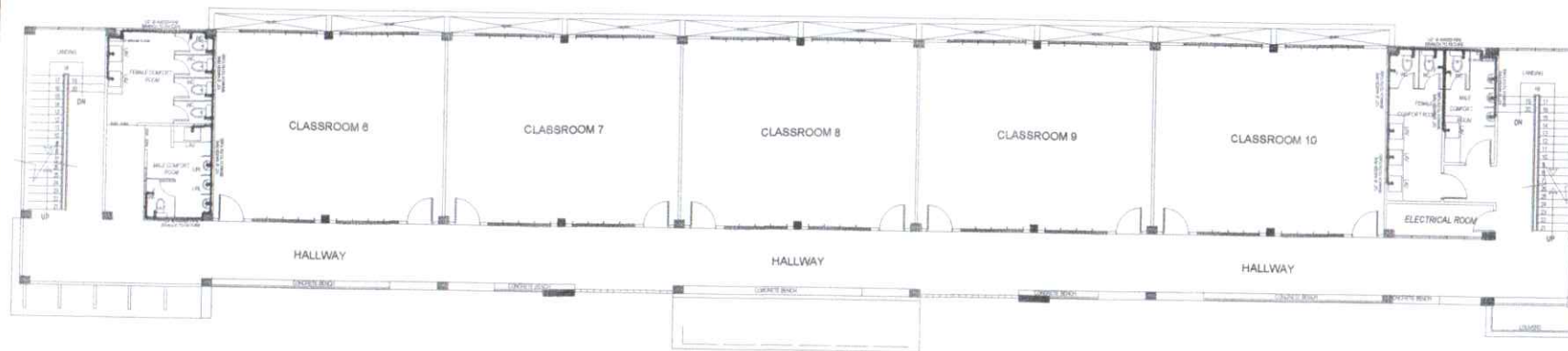


THIRD FLOOR  
SANITARY LAY-OUT PLAN  
SCALE: NTS

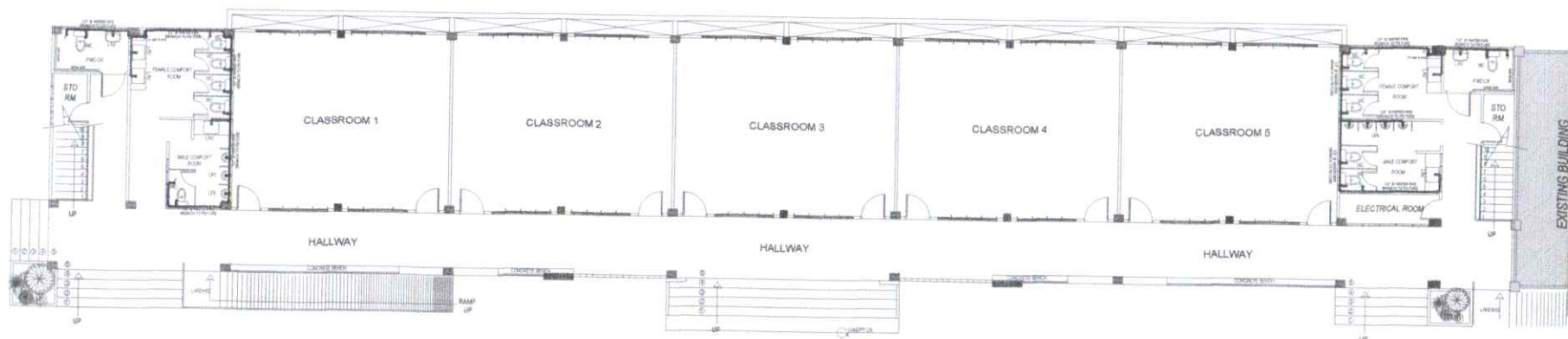
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|  | PREPARED BY:<br><b>ENGR. RUBEN M. HABANA</b><br>PROJECT ENGINEER | CERTIFIED BY: | P.R.C. No.<br>P.T.R. No.<br>DATE<br>ISSUED<br>TIN | PROJECT TITLE:<br><b>CONSTRUCTION OF 2-STOREY CLASSROOM BUILDING</b><br>LOCATION: MOSQUEDA CAMPUS, ALABUGOC, JORDAN, GUIMARAS | CHECKED AND REVIEWED BY:<br><b>EFREN S. TELLERMO, Ph.D.</b><br>PLUMBING DIRECTOR | RECOMMENDING APPROVAL:<br><b>KENT D. PINORA</b><br>MOSQUEDA CAMPUS DIRECTOR | APPROVED:<br><b>LILIAN DANAN PARRINO, Ph.D.</b><br>UNIVERSITY PRESIDENT | SHEET CONTENT:<br>AS SHOWN | SHEET No.<br><b>26</b><br>PLUMBING |
|--|------------------------------------------------------------------|---------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------|------------------------------------|

JORDAN GUIMARAS  
DIRECTOR

PLUMBING



SECOND FLOOR  
WATERLINE LAY-OUT PLAN  
SCALE: NTS

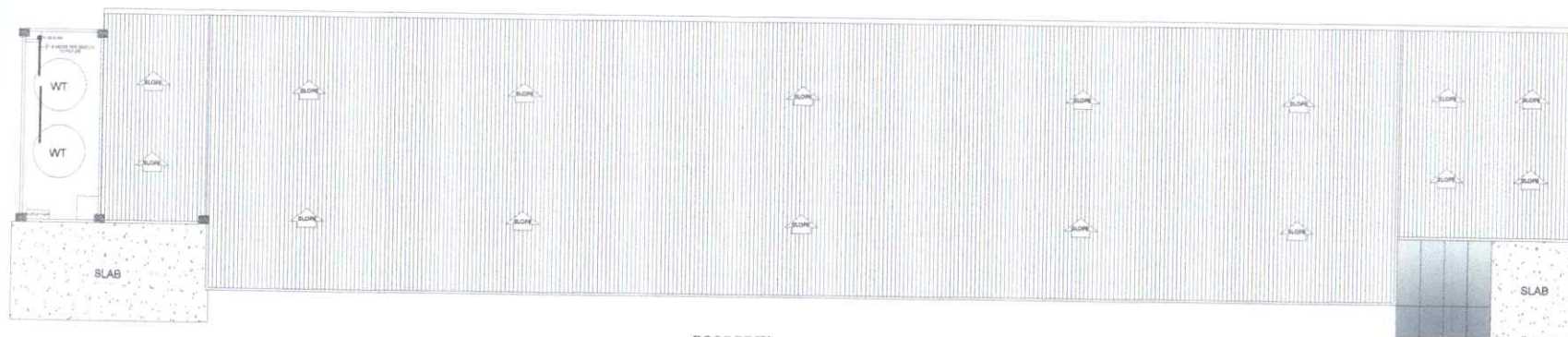


GROUND FLOOR  
WATERLINE LAY-OUT PLAN  
SCALE: NTS

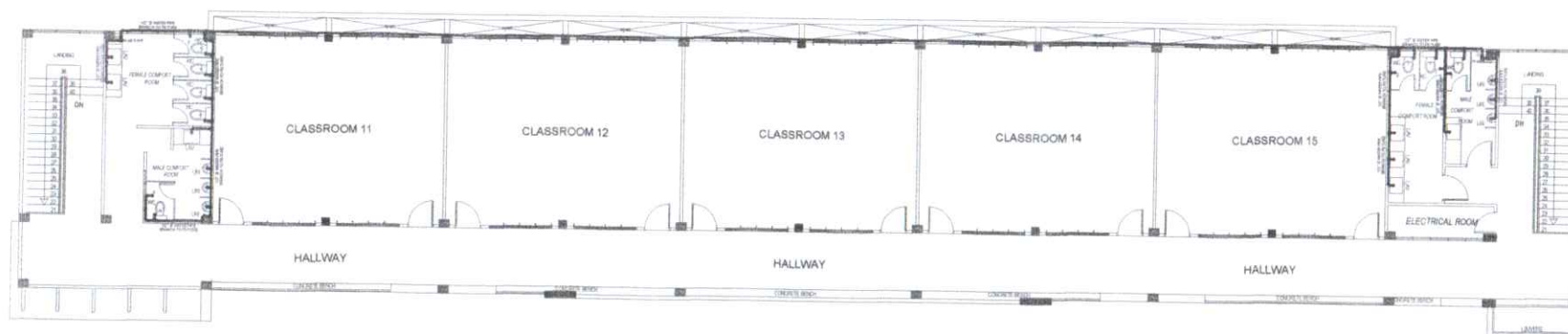
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|  | PREPARED BY<br><b>ENGR. RUBEN M. HABAÑA</b><br>PROJECT ENGINEER | CERTIFIED BY<br> | P.R.C. No.<br>P.T.R. No.<br>DATE<br>ISSUED<br>TRN | PROJECT TITLE<br><b>CONSTRUCTION OF 2-STORY CLASSROOM BUILDING</b><br><br>LOCATION: MOSQUEDA CAMPUS, ALAQUISOC, JORDAN, GUIMARAS | CHECKED AND REVIEWED BY<br><b>EREN S. TELERMO, Ph.D.</b><br>PLANNING DIRECTOR | RECOMMENDING APPROVAL<br><b>KERT O. ALORA</b><br>MOSQUEDA CAMPUS DIRECTOR | APPROVED<br><b>LILIAN DIANA HABAÑA, Ph.D.</b><br>UNIVERSITY PRESIDENT | SHEET CONTENT<br><b>AS SHOWN</b> | SHEET No.<br><b>3 6</b><br>PLUMBING |
|--|-----------------------------------------------------------------|------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|-------------------------------------|

JORDAN GUIMARAS  
REGISTERED

PLUMBING



ROOF DECK  
**WATERLINE LAY-OUT PLAN**  
SCALE: NTS



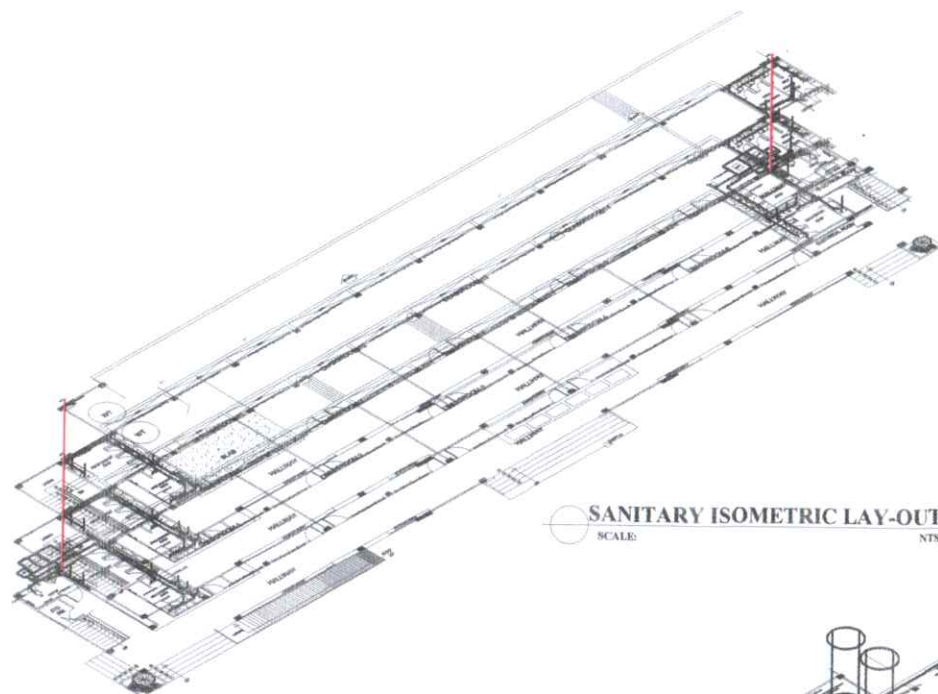
THIRD FLOOR  
**WATERLINE LAY-OUT PLAN**  
SCALE: NTS



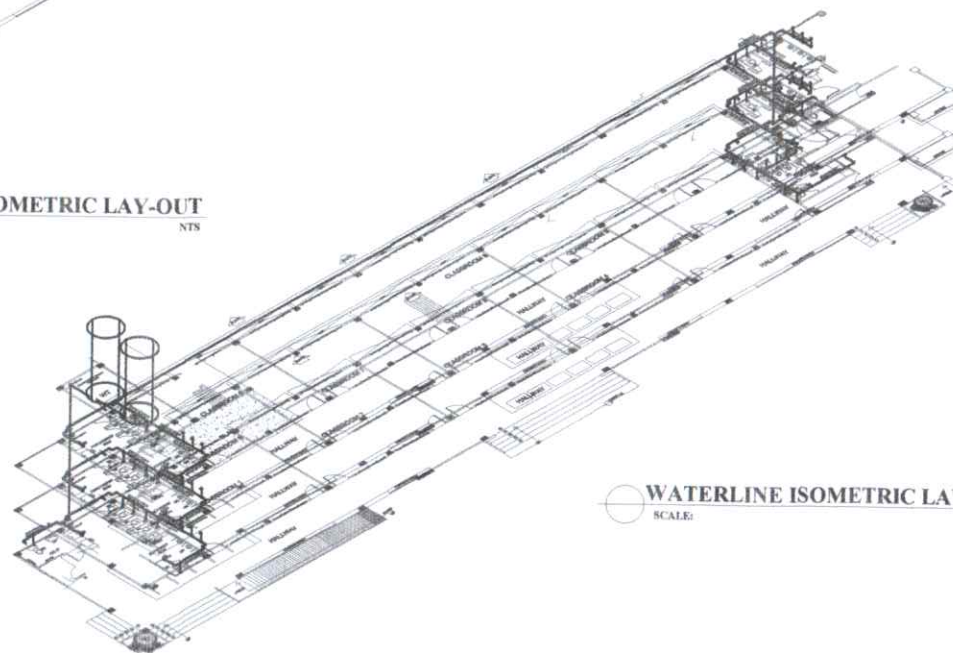
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| PREPARED BY<br><b>ENGR. RUBEN M. HABANA</b><br>PROJECT ENGINEER | CERTIFIED BY | P.R.C. No.<br>P.T.R. No.<br>DATE<br>ISSUED<br>TIN | PROJECT TITLE<br><b>CONSTRUCTION OF 2-STOREY<br/>CLASSROOM BUILDING</b> | CHECKED AND REVIEWED BY<br><b>EFREN S. TELERMO, Ph.D.</b><br>PLANNING DIRECTOR | RECOMMENDING APPROVAL<br><b>KERT D. PIORA</b><br>MOSQUEDA CAMPUS DIRECTOR | APPROVED<br><b>LILIAN DANIEL PARRINO, Ph.D.</b><br>UNIVERSITY PRESIDENT | SHEET CONTENT<br>AS SHOWN | SHEET No.<br><b>4 6</b><br>PLUMBING |
|                                                                 |              |                                                   | LOCATION: MOSQUEDA CAMPUS, ALABUSOC, JORDAN, GUIMARAS                   |                                                                                |                                                                           |                                                                         |                           |                                     |

JORDAN GUIMARAS  
REGISTERED

PLUMBING



**SANITARY ISOMETRIC LAY-OUT**  
SCALE: NTS



**WATERLINE ISOMETRIC LAY-OUT**  
SCALE: NTS

|  |                                                                  |               |                                                   |                                                                                                                                     |                                                                                  |                                                                              |                                                                            |                            |                                     |
|--|------------------------------------------------------------------|---------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------|-------------------------------------|
|  | PREPARED BY:<br><b>ENGR. RUBEN M. HABAÑA</b><br>PROJECT ENGINEER | CERTIFIED BY: | P.R.C. No.<br>P.T.R. No.<br>DATE<br>ISSUED<br>TIN | PROJECT TITLE:<br><b>CONSTRUCTION OF 2 - STOREY<br/>CLASSROOM BUILDING</b><br>LOCATION: MOSQUEDA CAMPUS, ALABUGOC, JORDAN, GUIMARAS | CHECKED AND REVIEWED BY:<br><b>EFREN S. TELLERMO, Ph.D.</b><br>PLUMBING DIRECTOR | RECOMMENDING APPROVAL:<br><b>KERRY D. PINORA</b><br>MOSQUEDA CAMPUS DIRECTOR | APPROVED:<br><b>LILIAN DIANA V. BARRINO, Ph.D.</b><br>UNIVERSITY PRESIDENT | SHEET CONTENT:<br>AS SHOWN | SHEET No.<br><b>5 6</b><br>PLUMBING |
|--|------------------------------------------------------------------|---------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------|-------------------------------------|

# GENERAL NOTES

## LEGEND:

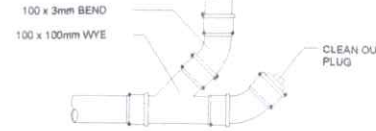
1. ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED IN ACCORDANCE TO THE PROVISIONS OF THE PHILIPPINE PLUMBING CODE, THE NATIONAL BUILDING CODE AND THE RULES AND REGULATIONS OF THE LOCAL MUNICIPALITY.
2. COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS. THE ENGINEER AND/OR THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND HEREIN.
3. ALL PIPES SHALL BE INSTALLED AS INDICATED. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF THE PLUMBING WORK SHALL BE WITH PRIOR APPROVAL OF THE ENGINEER AND/OR THE ARCHITECT.
4. PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATIONS OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTOR.
5. ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN ONE PERCENT (1%) AND ONE-HALF PERCENT (1.5%) MINIMUM UNLESS OTHERWISE SPECIFIED.
6. WATER SUPPLY PIPE TO FIXTURE SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
7. ALL BRANCHES OF FIXTURE OR GROUP OF FIXTURES SHALL BE PROVIDED WITH AIR CHAMBER MADE OF CAPPED VERTICAL EXTENSION.
8. ALL WATER LINES SHALL BE HYDROSTATICALLY TESTED @ 100 PSI FOR A PERIOD OF TWO (2) HOURS BEFORE BURIED OR COVERED. GALVANIZED (IRON) PIPES DIRECTLY IN CONTACT WITH THE SOIL SHALL BE PROVIDED WITH TWO COATS OF MELTED ASPHALT AND WRAPPED WITH BOTE CLOTH SOAKED IN MELTED ASPHALT.
9. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES @ SITE AND COORDINATE THE WORK WITH THE SEWER AND STORM DRAINAGE LINE EFFLUENT DISPOSAL POINT AND WATERLINE SERVICE CONNECTION/TAPPING POINT.
10. ALL PIPE SIZES AND OTHER DIMENSIONS ARE IN MILLIMETER.

- WC  
LAV  
BT  
KSK  
EWH  
FCO  
GCO  
FD  
SS  
VS  
SP  
VP  
SV  
V  
VAC  
VTR  
FD  
DD  
GD  
AC  
GV  
WM  
CV  
FLV  
CB  
DJB  
WM  
URI  
WS  
DS  
WW
- SEWAGE LINE  
VENT LINE  
COLD WATER SUPPLY LINE  
HOT WATER SUPPLY LINE  
STORM DRAIN LINE  
WATER CLOSET  
LAVATORY  
BATH TUB  
KITCHEN SINK  
ELECTRIC WATER HEATER  
FLOOR CLEANOUT  
GROUND CLEANOUT  
FLOOR DRAIN  
SOIL STACK  
VENT STACK  
SOIL PIPE  
VENT PIPE  
SEPTIC VAULT  
VENT LINE  
VENT ABOVE CEILING  
VENT THRU ROOF  
FLOOR DRAIN  
DECK DRAIN  
GUTTER DRAIN  
AIR CHAMBER  
GATE VALVE  
WATER METER  
CHECK VALVE  
FLOAT VALVE  
CATCH BASIN  
DRAINAGE JUNCTION BOX  
WATER METER  
URINAL  
WASTE STOP  
DOWN SPOUT  
SAHARA WATER PROOFING

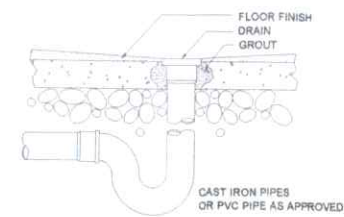
VERT. TO HOR. DETAIL



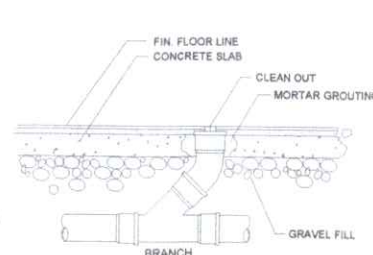
HOR. TO VERT. DETAIL



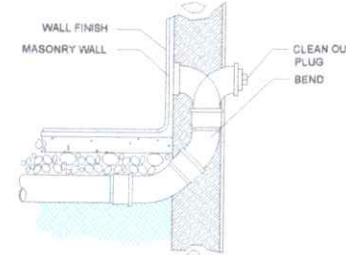
FLOOR DRAIN DETAIL



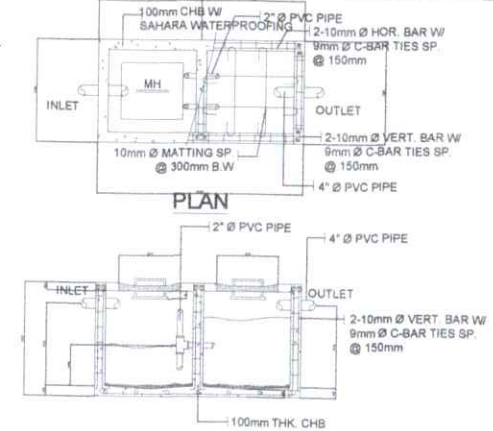
FLOOR CLEANOUT DETAIL



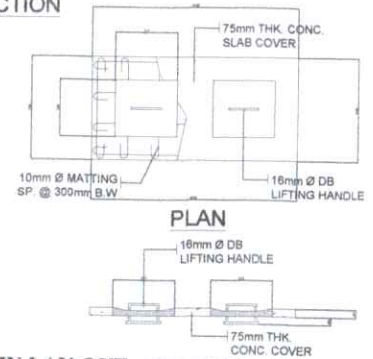
WALL CLEANOUT DETAIL



SECTION



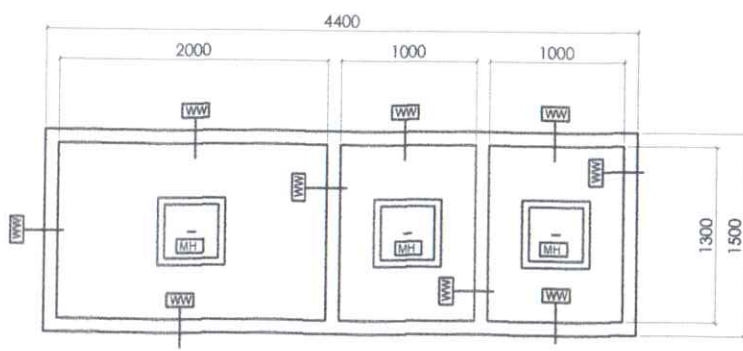
PLAN



CATCH BASIN LAY-OUT SECTION

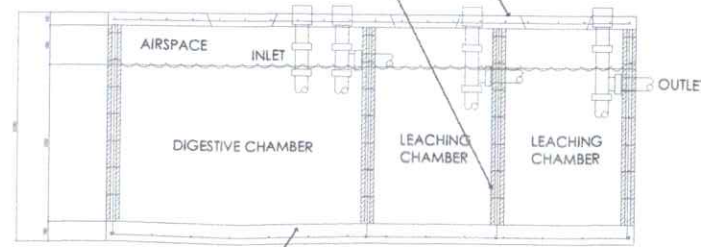


SEPTIC TANK DETAIL



100mm TOP SLAB w/ 10mm REBARS  
SPACED @ 200mm O.C. B.W.

100mm CHB w/ 10mm REBARS  
SPACED @ 400mm O.C.



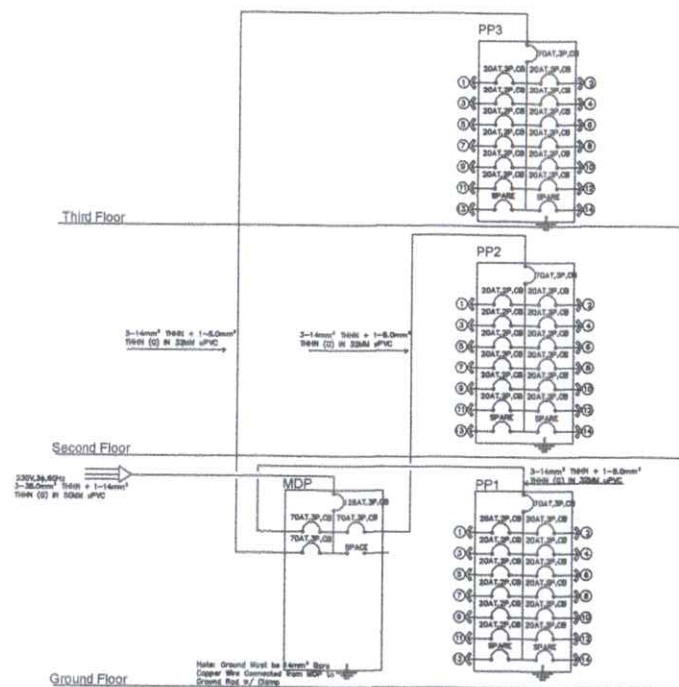
100mm BOT. SLAB w/ 10mm REBARS  
SPACE @ 300mm O.C. B.W.

|  |                                                                  |               |                                                   |                                                                                                                               |                                                                                 |                                                                             |                                                                          |                            |                                   |
|--|------------------------------------------------------------------|---------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------|-----------------------------------|
|  | PREPARED BY:<br><b>ENGR. RUBEN M. HABAÑA</b><br>PROJECT ENGINEER | CERTIFIED BY: | P.R.C. No.<br>P.T.R. No.<br>DATE<br>ISSUED<br>TRK | PROJECT TITLE:<br><b>CONSTRUCTION OF 2-STOREY CLASSROOM BUILDING</b><br>LOCATION: MOSQUEDA CAMPUS, ALABRICO, JORDAN, GUIMARAS | CHECKED AND REVIEWED BY:<br><b>ERSEN S. TELERMO, Ph.D.</b><br>PLUMBING DIRECTOR | RECOMMENDING APPROVAL:<br><b>KERT D. PALORA</b><br>MOSQUEDA CAMPUS DIRECTOR | APPROVED:<br><b>LILIAN DIANZA PARRINO, Ph.D.</b><br>UNIVERSITY PRESIDENT | SHEET CONTENT:<br>AS SHOWN | SHEET No.<br><b>6</b><br>PLUMBING |
|--|------------------------------------------------------------------|---------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------|-----------------------------------|

## GENERAL NOTES

- ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC) AND THE NATIONAL ELECTRICAL CODE (NEC). ALL ELECTRICAL WORKS SHALL BE COVERED WITH ENFORCEMENT OF LOCAL AND REGULATIONS OF LOCAL UTILITY COMPANY. THE SERVICE VOLTAGE TO THE BUILDING SHALL BE 220V, THREE PHASE 5 CYCLES.
4. ADDITIONAL REQUIREMENTS TO BE USED SHALL BE BRAND NEW OF GOOD QUALITY AND TYPE FOR THE LOCATION AND PURPOSES.
5. ANY ALTERATION OR CHANGES SHALL BE CONSULT TO A PROFESSIONAL ELECTRICAL ENGINEER.
6. BRACKETS OR HANGERS SHALL NOT BE CONSIDERED IN THE SAME RACEWAY.
7. MOUNTING HEIGHTS SHALL BE AS FOLLOWS:
- |                                    |                           |
|------------------------------------|---------------------------|
| 1. 6" ABOVE FLOOR FINISH           | — O. OUTLET & AIR OUTLET  |
| 1. 6" ABOVE FLOOR FINISH           | — LIGHT CONTROL SWITCH    |
| 1. 7" ON ABOVE FLOOR FINISH CENTER | — PANELBOARDS             |
| 1. ALL OTHER HEIGHTS               | — VERIFY TO THE ARCHITECT |
7. ALL SERVICE ENTRANCE EQUIPMENTS SUCH AS PANELBOARD SHALL BE PROPERLY IDENTIFIED IN ACCORDANCE WITH THE PROVISION OF THE PHILIPPINE ELECTRICAL CODE.
8. ALL ELECTRICAL WORKS AND INSTALLATIONS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A duly REGISTERED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.
9. MINIMUM SIZE OF WIRE FOR LIGHTING SHALL BE 2.0 mm<sup>2</sup> /mm.
10. MINIMUM SIZE IF WIRE FOR CONVEINENCE OUTLET SHALL BE 3.5 mm<sup>2</sup> /mm.
11. MINIMUM SIZE OF WIRE FOR MAIN SERVICE ENTRANCE SHALL BE 4.0 mm<sup>2</sup> /mm.

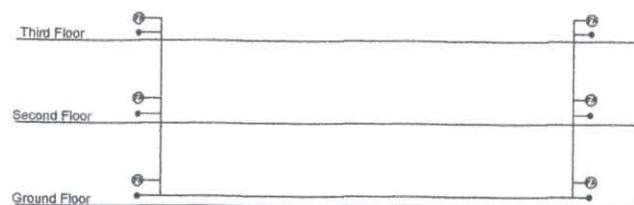
### ONE LINE AND RISER DIAGRAM



### SCHEDULE OF LOADS AND DESIGN ANALYSIS

[illegible]

### FDAS ONE LINE AND RISER DIAGRAM



REPUBLIC OF THE PHILIPPINES  
OFFICE OF THE BUILDING OFFICIAL

JORDAN GUIMARAS

## STRUCTURAL

LEGEND:

- |                                                                                     |                                                               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------|
|  | DOOR/SAFE ENTRANCE                                            |
|  | KILOHOUR-TIME METER                                           |
|  | CIRCUIT BREAKER                                               |
|  | HANDLE HONDLIN                                                |
|  | NO LED SLAMP FREE RECESSED<br>FLOODING LIGHTS GENT. COOL-EMIT |
|  | NO LED WALL LAMP                                              |
|  | NO LED SLAMP FREE RECESSED<br>FLOODING LIGHTS GENT. COOL-EMIT |
|  | POWERTIME, OUTSIDE PANE BY<br>DALI, BLACK WITH A HUBBES       |
|  | EMERGENCY LAMP                                                |
|  | SWITCHES                                                      |
|  | PYRE ALARM SWITCH                                             |
|  | CONDUIT LINE                                                  |
|  | CONVENIENCE OUTLET LINE                                       |
|  | DUPLEX CONVENIENCE OUTLET                                     |
|  | S1 SINGLE POLE SWITCH                                         |
|  | S2 TWO GANG SWITCH                                            |
|  | S3 THREE GANG SWITCH                                          |
|  | S3WY THREE, WAY SWITCH                                        |
|  | POWER PANEL, BOARD                                            |
|  | GROUND LINE                                                   |

LEGEND:

- |   |                   |
|---|-------------------|
| ② | FIRE ALARM        |
| ● | FIRE ALARM SWITCH |

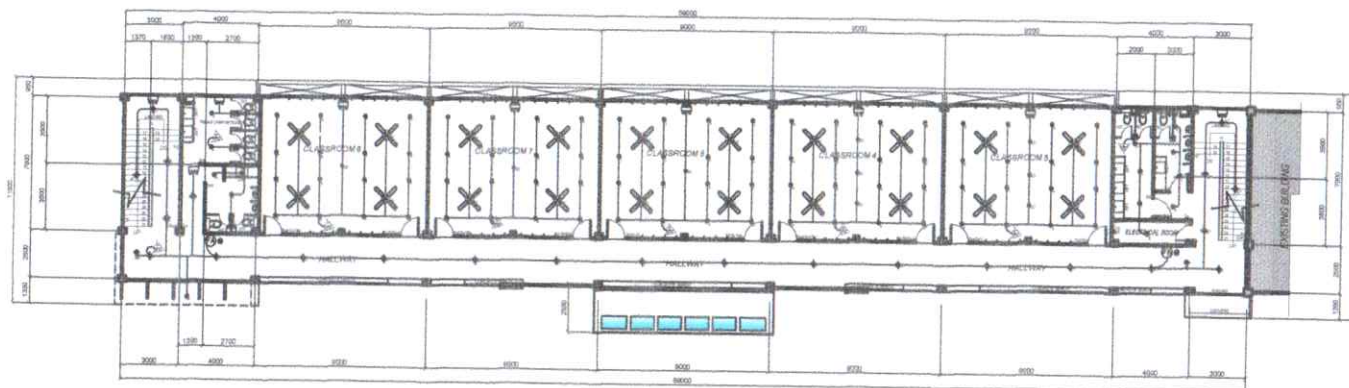
| SHEET 7 OF 10                                                                                                                           |              |                                     |                                                        |                                                     |                                                    |                                                             |                 |           |   |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------|--------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------|-----------------|-----------|---|
| PREPARED BY                                                                                                                             | CERTIFIED BY | P.R.C. No.                          | PROJECT TITLE                                          | CHECKED AND REVIEWED BY                             | RECOMMENDING APPROVAL                              | APPROVED                                                    | SHEET CONTENT   | SHEET No. |   |
| <br><b>ENGR. RUBEN M. HABANA</b><br>PROJECT ENGINEER |              | P.T.R. No.<br>DATE<br>ISSUED<br>TRI | <b>CONSTRUCTION OF 2 STOREY<br/>CLASSROOM BUILDING</b> | <b>EFREN S. TERLIMO, Ph.D.</b><br>PLANNING DIRECTOR | <b>KERT P. ALLORA</b><br>MOSQUELEY CAMPUS DIRECTOR | <b>LILIAN DIANAS CARRERO, Ph.D.</b><br>UNIVERSITY PRESIDENT | <b>AS SHOWN</b> | <b>E</b>  | 1 |

JORDAN G. GUMARAS  
REGISTERED ELECTRICAL ENGINEER

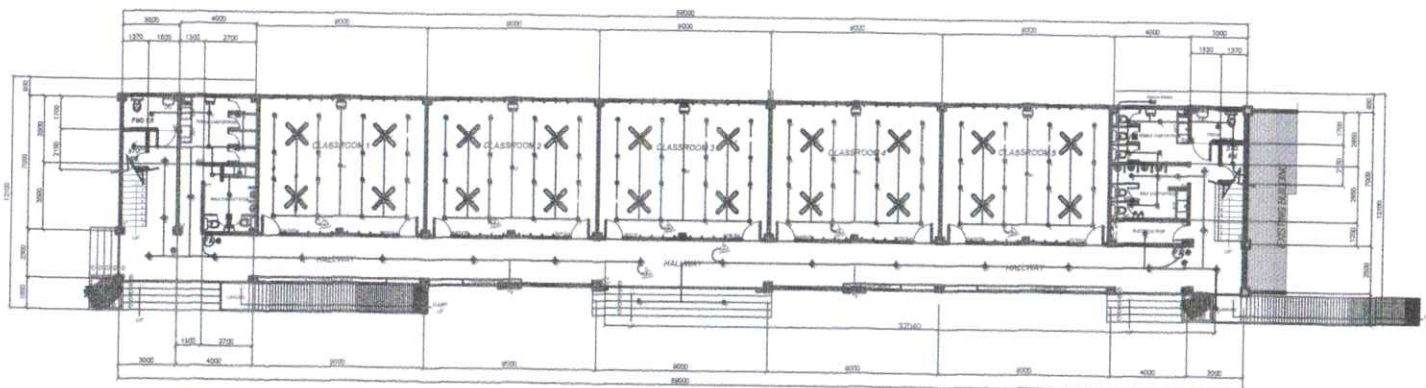
STRUCTURAL

LEGEND:

|  |                          |
|--|--------------------------|
|  | SERVICE ENTRANCE         |
|  | KILOWATT-HOUR METER      |
|  | CIRCUIT BREAKER          |
|  | CIRCUIT HANDOVER         |
|  | 150 LED FLOOD LIGHT      |
|  | 150 LED WALL LAMP        |
|  | 150 LED FLOOD LIGHT      |
|  | INDUSTRIAL CEILING FAN   |
|  | EMERGENCY LAMP           |
|  | SWITCHES                 |
|  | FIRE ALARM SWITCH        |
|  | CIRCUIT LINE             |
|  | CONFERENCE OUTLET LINE   |
|  | DUPLEX CONFERENCE OUTLET |
|  | SINGLE POLE SWITCH       |
|  | TWO GANG SWITCH          |
|  | THREE GANG SWITCH        |
|  | THREE WAY SWITCH         |
|  | POWER PANEL BOARD        |
|  | GROUND LINE              |



SECOND FLOOR LIGHTING

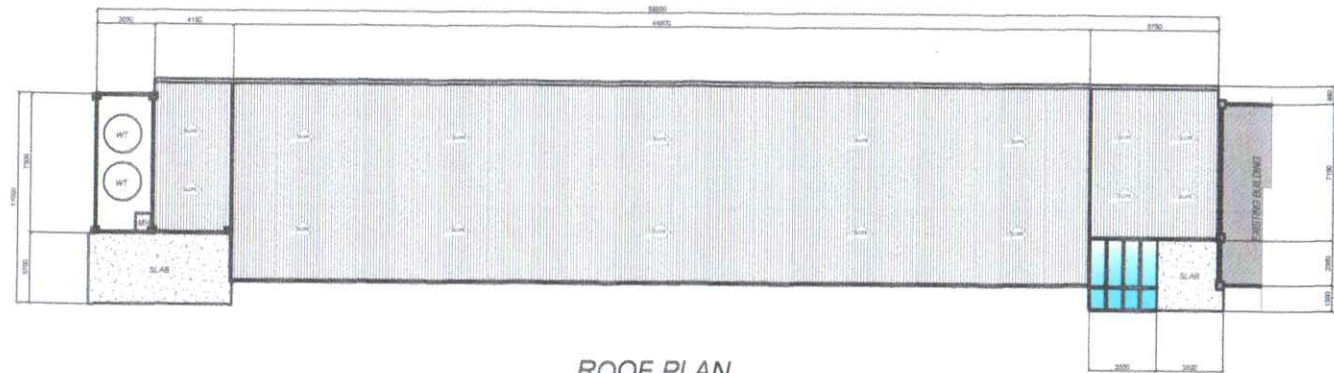


GROUND FLOOR LIGHTING

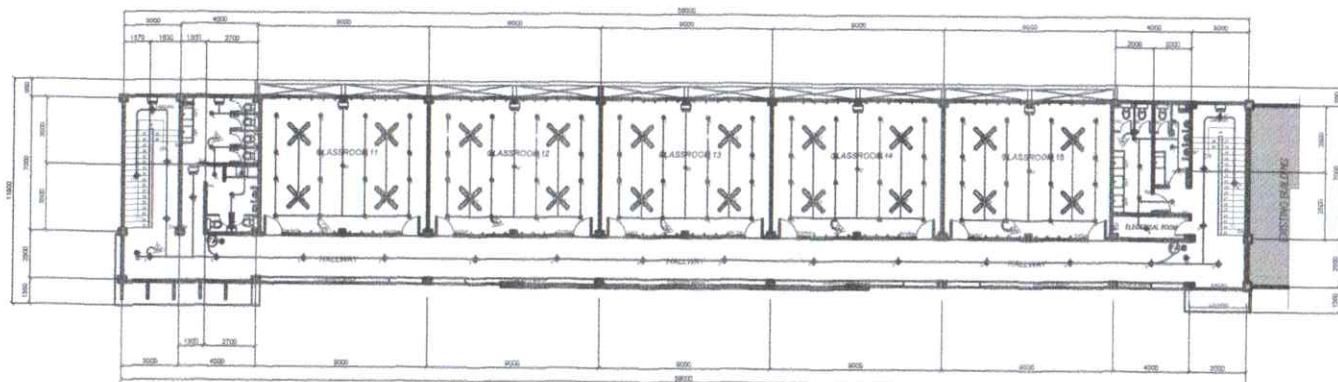
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|--|-------------------------------------------|--------------|------------|-------------------------------------------------------|----------------------------------------------|--------------------------------------------|------------------------------------------------------|---------------|-----------|
|  | PREPARED BY                               | CERTIFIED BY | P.R.C. No. | PROJECT TITLE                                         | CHECKED AND REVIEWED BY                      | RECOMMENDING APPROVAL                      | APPROVED                                             | SHEET CONTENT | SHEET No. |
|  | ENGR. RUBEN M. HABANA<br>PROJECT ENGINEER |              | P.T.R. No. | CONSTRUCTION OF 2 STOREY<br>CLASSROOM BUILDING        | EFREN S. TELLERMO, Ph.D.<br>PROJECT DIRECTOR | KERF D. PINORA<br>MORQUEDA CAMPUS DIRECTOR | LILIAN DANAYA PARRENO, Ph.D.<br>UNIVERSITY PRESIDENT | AS SHOWN      | E 2       |
|  | DATE                                      |              | ISSUED     | LOCATION: MOSQUEDA CAMPUS, ALABUSOG, JORDAN, GUIMARAS |                                              |                                            |                                                      |               |           |
|  | TIN                                       |              |            |                                                       |                                              |                                            |                                                      |               |           |

LEGEND:

- |                                                                                     |                                                   |
|-------------------------------------------------------------------------------------|---------------------------------------------------|
|  | SEWAGE ENTRANCE                                   |
|  | HOUR-METER                                        |
|  | CIRCULAR SPREADER                                 |
|  | CIRCULAR HOOK/LIN                                 |
|  | IN-TO-ALARM-PIRE-ALARM<br>OUT-TO-ALARM-PIRE-ALARM |
|  | IN-TO-ALARM-PIRE-ALARM                            |
|  | IN-TO-ALARM-PIRE-ALARM<br>OUT-TO-ALARM-PIRE-ALARM |
|  | IN-TO-ALARM-PIRE-ALARM<br>OUT-TO-ALARM-PIRE-ALARM |
|  | IN-TO-ALARM-PIRE-ALARM<br>OUT-TO-ALARM-PIRE-ALARM |
|  | IN-TO-ALARM-PIRE-ALARM<br>OUT-TO-ALARM-PIRE-ALARM |
|  | IN-TO-ALARM-PIRE-ALARM<br>OUT-TO-ALARM-PIRE-ALARM |
|  | IN-TO-ALARM-PIRE-ALARM<br>OUT-TO-ALARM-PIRE-ALARM |
|  | IN-TO-ALARM-PIRE-ALARM<br>OUT-TO-ALARM-PIRE-ALARM |
|  | IN-TO-ALARM-PIRE-ALARM<br>OUT-TO-ALARM-PIRE-ALARM |
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|  | IN-TO-ALARM-PIRE-ALARM<br>OUT-TO-ALARM-PIRE-ALARM |
|  | IN-TO-ALARM-PIRE-ALARM<br>OUT-TO-ALARM-PIRE-ALARM |
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|  | IN-TO-ALARM-PIRE-ALARM<br>OUT-TO-ALARM-PIRE-ALARM |
|  | IN-TO-ALARM-PIRE-ALARM<br>OUT-TO-ALARM-PIRE-ALARM |
|  | IN-TO-ALARM-PIRE-ALARM<br>OUT-TO-ALARM-PIRE-ALARM |



ROOF PLAN



### THIRD FLOOR LIGHTING



ENGR. RUBEN M. HABANA  
PROJECT ENGINEER

1

ISSUED

1

LOCATION: MOSQUEDA CAMPUS, ALAGUASOC, JORDAN, GUIMARAS

PLAYING DIRECTOR

MOSQUEDA CAMPUS DIRECTOR

UNIVERSITY PRESIDENT

AS SHOWN

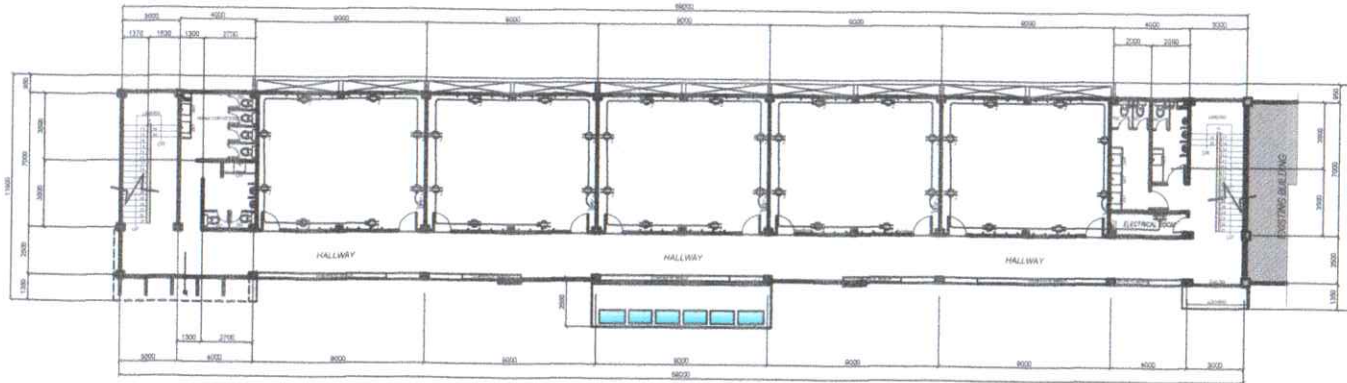
3

JORDAN Q. MARASAS  
REGISTERED ELECTRICAL ENGINEER

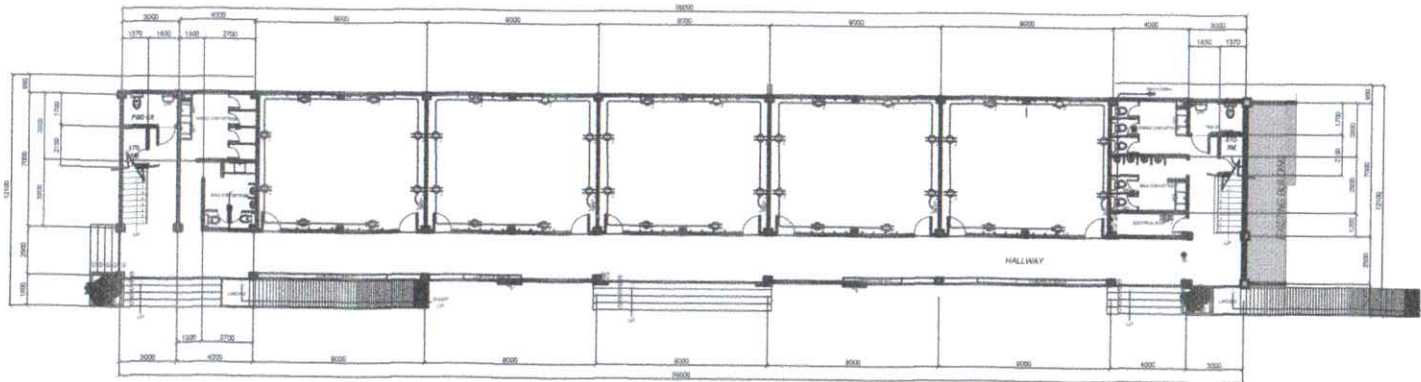
STRUCTURAL

LEGEND:

|  |                               |
|--|-------------------------------|
|  | SERVICE ENTRANCE              |
|  | KILOWATT-HOUR METER           |
|  | CIRCUIT BREAKER               |
|  | CIRCUIT HOMERUN               |
|  | 40 W LED-LAMP                 |
|  | 60 W LED-LAMP                 |
|  | 100 W LED-LAMP                |
|  | INDUSTRIAL CEILING FAN 1/2 HP |
|  | EMERGENCY LAMP                |
|  | SWITCHES                      |
|  | FIRE ALARM SWITCH             |
|  | CIRCUIT LINE                  |
|  | CONFERENCE OUTLET LINE        |
|  | DUPLEX CONFERENCE OUTLET      |
|  | SINGLE POLE SWITCH            |
|  | TWO GANG SWITCH               |
|  | THREE GANG SWITCH             |
|  | THREE WAY SWITCH              |
|  | POWER PANEL BOARD             |
|  | GROUND LINE                   |

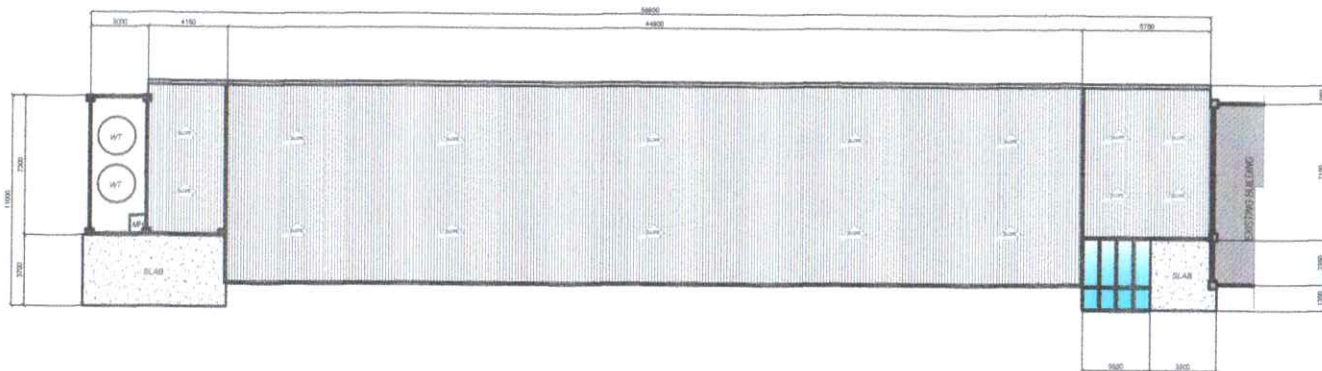


SECOND FLOOR POWER

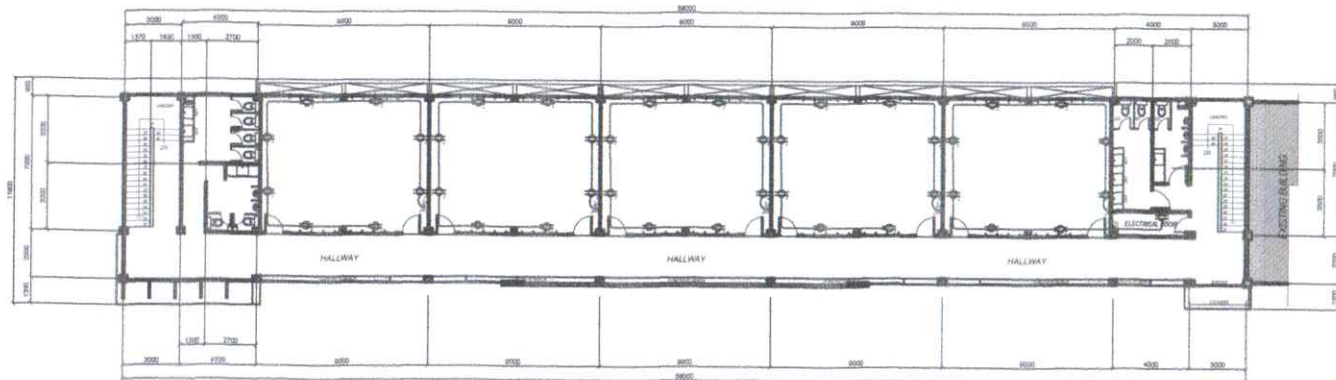


GROUND FLOOR POWER

|  |                                                |               |            |                                                      |                                              |                                            |                                                        |                |           |
|--|------------------------------------------------|---------------|------------|------------------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------------------|----------------|-----------|
|  | PREPARED BY:                                   | CERTIFIED BY: | P.R.C. No. | PROJECT TITLE:                                       | CHECKED AND REVIEWED BY:                     | RECOMMENDING APPROVAL:                     | APPROVED:                                              | SHEET CONTENT: | SHEET No. |
|  | ENGR. RUBEN M. HABARA<br>PROFESSIONAL ENGINEER |               | P.T.R. No. | CONSTRUCTION OF 2 STOREY<br>CLASSROOM BUILDING       | EFREN S. TELERMO, Ph.D.<br>PLANNING DIRECTOR | KERT O. PINERA<br>MOSQUEDA CAMPUS DIRECTOR | LILIAN DIANA B. BARBERO, Ph.D.<br>UNIVERSITY PRESIDENT | AS SHOWN       | E 4       |
|  |                                                |               | DATE:      | LOCATION: MOSQUEDA CAMPUS, ALABUJOC, JORDAN, DUMARAS |                                              |                                            |                                                        |                |           |
|  |                                                |               | ISSUED:    |                                                      |                                              |                                            |                                                        |                |           |
|  |                                                |               | TIN:       |                                                      |                                              |                                            |                                                        |                |           |



ROOF PLAN



THIRD FLOOR POWER

REPUBLIC OF THE PHILIPPINES  
OFFICE OF THE BUILDING OFFICIAL

JORDAN GUIMARAS  
MUNICIPALITY

STRUCTURAL

LEGEND:

|  |                                  |
|--|----------------------------------|
|  | SERVICE ENTRANCE                 |
|  | KILOWATT-HOUR METER              |
|  | CIRCUIT BREAKER                  |
|  | CIRCUIT BREAKER                  |
|  | 120-240V SINGLE-PHASE RECEPTACLE |
|  | 120-240V SINGLE-PHASE RECEPTACLE |
|  | 120-240V SINGLE-PHASE RECEPTACLE |
|  | INDUSTRIAL CEILING FAN 14\"/>    |
|  | EMERGENCY LAMP                   |
|  | SWITCHES                         |
|  | FIRE ALARM SWITCH                |
|  | CIRCUIT LINE                     |
|  | CONDUIT LINE                     |
|  | DUPLEX CONVENIENCE OUTLET        |
|  | SINGLE POLE SWITCH               |
|  | TWO GANG SWITCH                  |
|  | THREE GANG SWITCH                |
|  | THREE WAY SWITCH                 |
|  | POWER PANEL BOARD                |
|  | GROUND LINE                      |

|  |                       |              |            |                                                        |                          |                          |                                |               |           |
|--|-----------------------|--------------|------------|--------------------------------------------------------|--------------------------|--------------------------|--------------------------------|---------------|-----------|
|  | PREPARED BY           | CERTIFIED BY | P.I.C. No. | PROJECT TITLE                                          | CHECKED AND REVIEWED BY  | RECOMMENDING APPROVAL    | APPROVED                       | SHEET CONTENT | SHEET No. |
|  | ENGR. RUBEN M. HABAÑA |              | P.T.R. No. | CONSTRUCTION OF 2 STOREY CLASSROOM BUILDING            | EFREN S. TELLERMO, Ph.D. | KERT D. BORRA            | LILIAN DIANA R. FARRERO, Ph.D. | AS SHOWN      | E 5       |
|  | PROJECT ENGINEER      |              | DATE       | LOCATION: MOSQUEDA CAMPUS, ALAGUIGOC, JORDAN, GUIMARAS | PLANNING DIRECTOR        | MOSQUEDA CAMPUS DIRECTOR | UNIVERSITY INSTRUCTOR          |               |           |
|  |                       |              | ISSUED     |                                                        |                          |                          |                                |               |           |