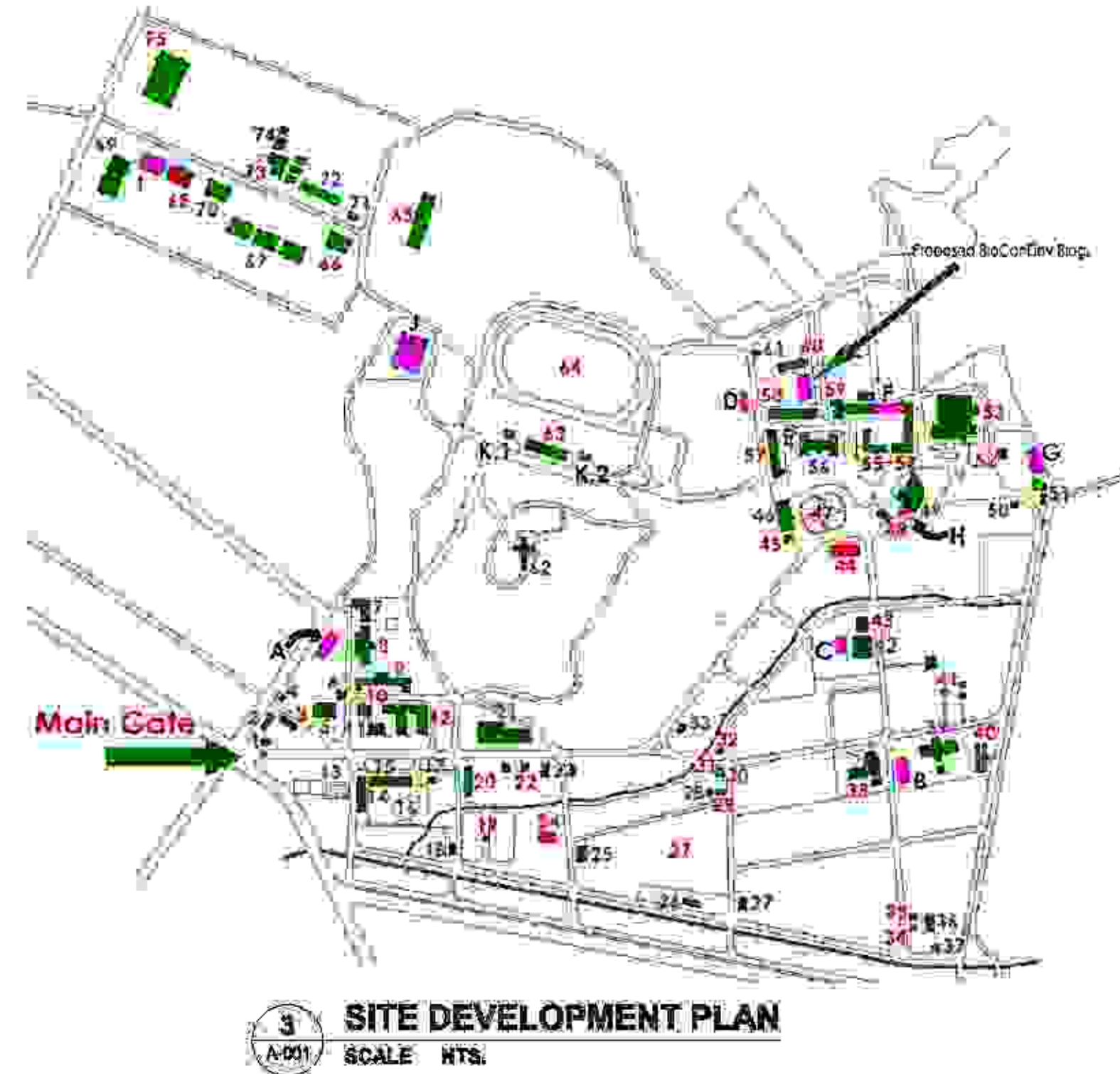
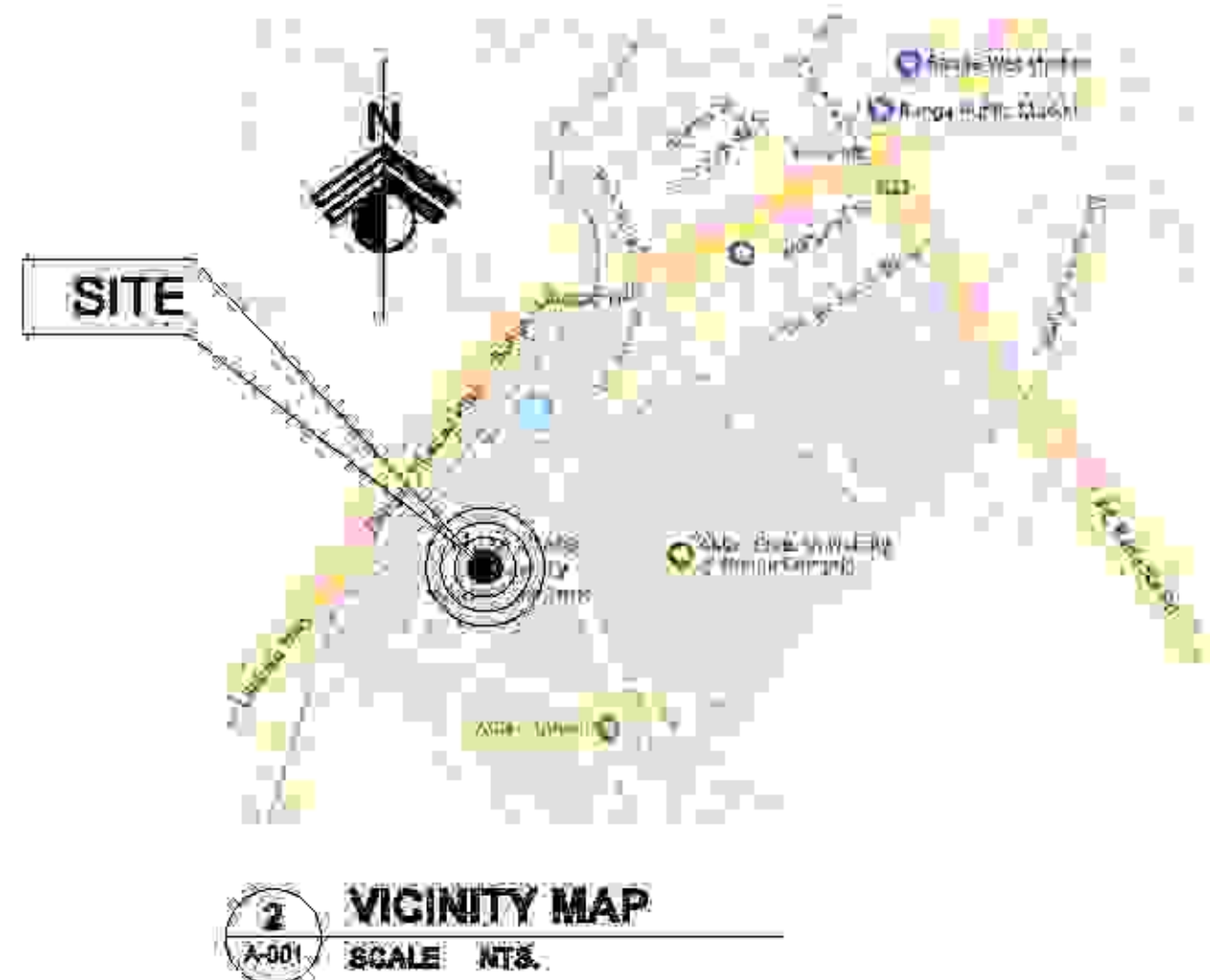




PERSPECTIVE



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS,  
TRANSPORTATION AND COMMUNICATION  
MUNICIPALITY OF BANGA

CITY / DISTRICT / MUNICIPALITY  
LAND USE AND ZONING

LINE AND GRADE

ARCHITECTURAL

STRUCTURAL

SANITARY

ELECTRICAL

MECHANICAL

**TAMAYO | REVISA Architects**  
LEYSON BLDG., ROXAS AVE. & CALACHUCHI ROAD, ANDAGAO,  
KALIBO, AKLAN, PHILIPPINES  
MOBILE NO. - 0920 7968 871 / (038) 288-4910  
E-MAIL ADDRESS - [ianrevisa@yahoo.com](mailto:ianrevisa@yahoo.com)

PREPARED BY:  
**IAN KRISTOFFER J. REVISA**  
ARCHITECT

PROJECT NO:  
008800  
REV: 10/7/2017  
DATE: 04.14.2017  
PROJECT NAME:  
REVISIONS:  
REV: 2014-09-09-000

PROJECT TITLE:  
**PROPOSED 2-TWO STOREY BIODIVERSITY  
CONSERVATION AND DEVELOPMENT CENTER**

OWNER:  
**AKLAN STATE UNIVERSITY**

RECOMMENDING APPROVAL:  
**DR. ANNA MAE C. REUNGO**

APPROVED:  
**DR. DANILLO E. ABAYON**

SHEET CONTROL:  
4 PERSPECTIVE  
4 VICINITY MAP  
6 SITE DEVELOPMENT PLAN

SHEET NO.  
**A-001**

VICE PRESIDENT ADMINISTRATION  
SAC PRESIDENTS

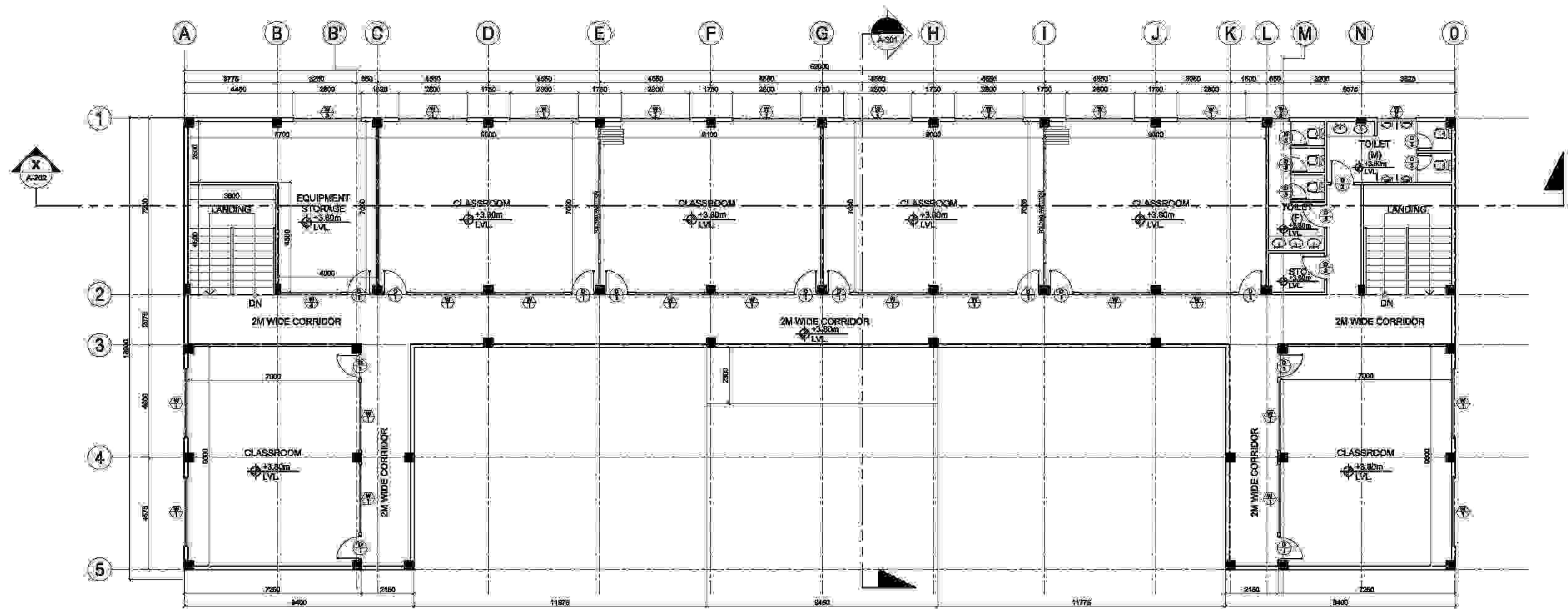
LOCATION:  
AKLAN STATE UNIVERSITY, BANGAL, AKLAN

LOCATION:  
AKLAN STATE UNIVERSITY, BANGAL, AKLAN





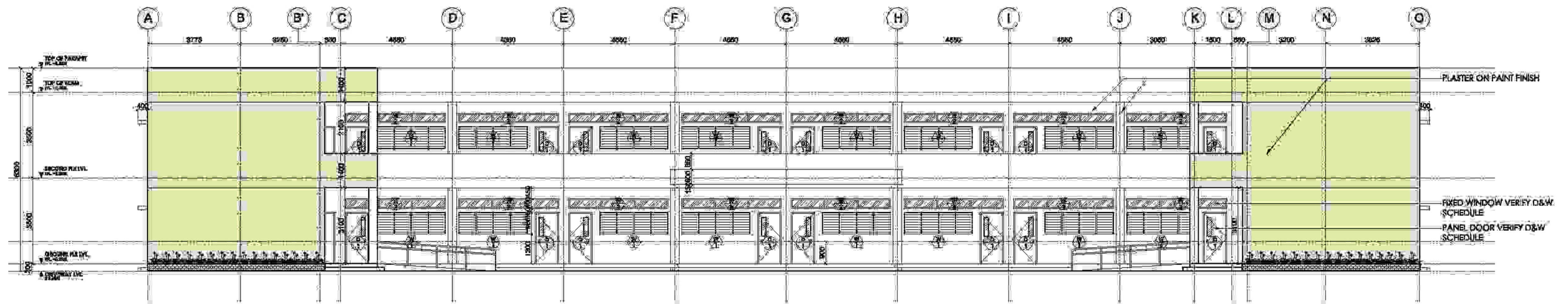




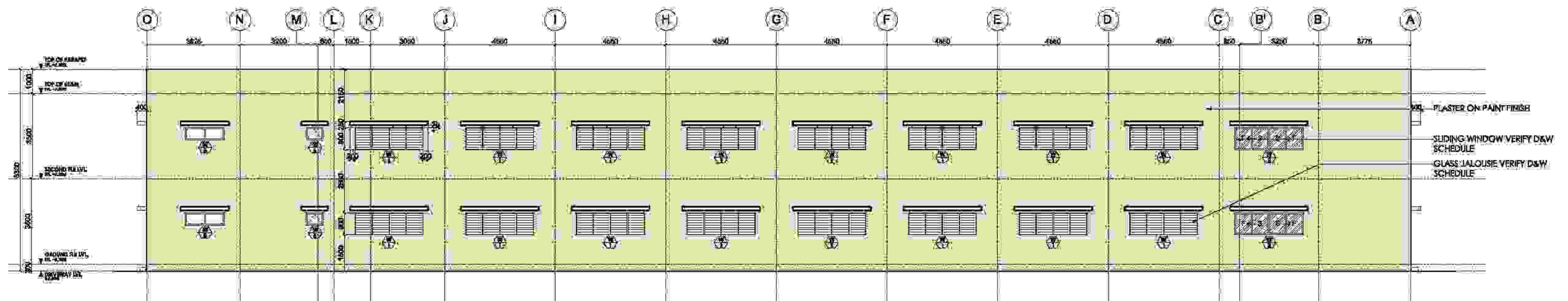
**1 SECOND FLOOR PLAN**  
 SCALE 1:100 MTR

 <b>TAMAYO   REVISA Architects</b> LEYSON BLDG., ROXAS AVE. & CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES MOBILE NO. - 0920 7968 871 / (036) 281-4310 E-MAIL ADDRESS - <a href="mailto:ianrevisa@yahoo.com">ianrevisa@yahoo.com</a>	PREPARED BY: <b>IAN KRISTOFFER J. REVISA</b> ARCHITECT	PRC: 008800 PRD: 15072002 DATE: JUNE 14, 2017 REASON: PRO-AKLAM REV: 2014-09-09-000	PROJECT TITLE: <b>PROPOSED 2-TWO STOREY BIODIVERSITY          CONSERVATION AND DEVELOPMENT CENTER</b>	OWNER: <b>AKLAN STATE UNIVERSITY</b>	RECOMMENDING APPROVAL: <b>DR. ANNA MAE C. REUNGO</b> <small>VICED PRESIDENT ADMINISTRATION</small>	APPROVAL: <b>DR. DANILO E. ABAYON</b> <small>SAC PRESIDENT</small>	SHEET CONTENT: 2ND FLOOR PLAN	SHEET NO.: <b>A-102</b>
	PREPARED FOR: <b>AKLAN STATE UNIVERSITY, BANGALAKLAN</b>		LOCATION:		LOCAL OFFICE:		PROJECT NO.:	






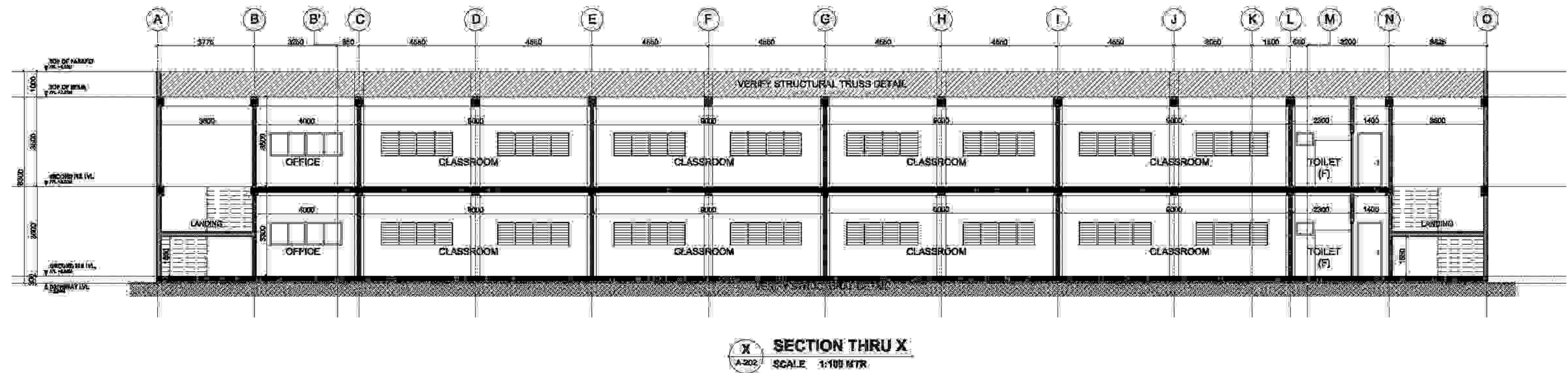
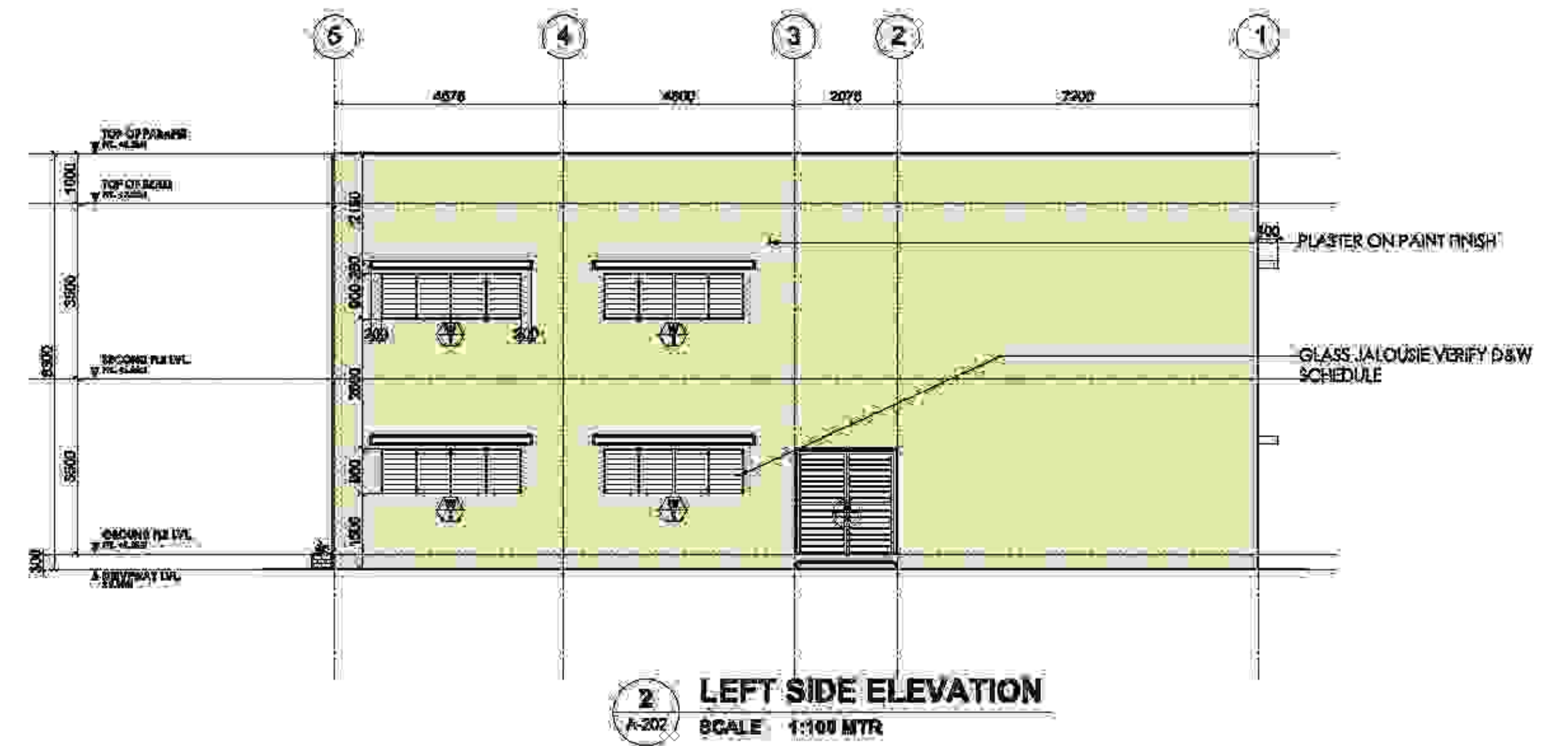
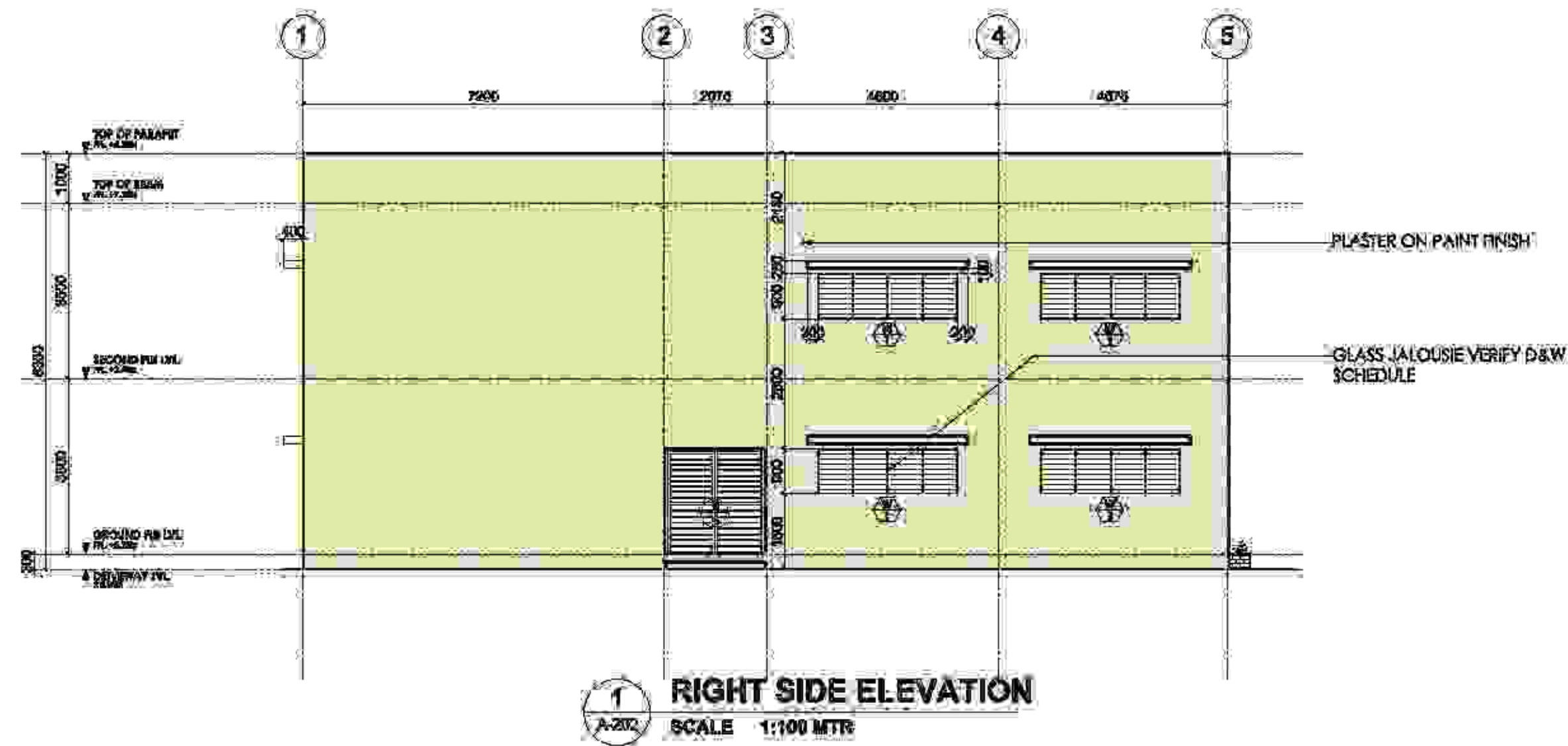
**1 FRONT ELEVATION**  
A-201 SCALE 1:100 MTR




**2 REAR ELEVATION**  
A-201 SCALE 1:100 MTR

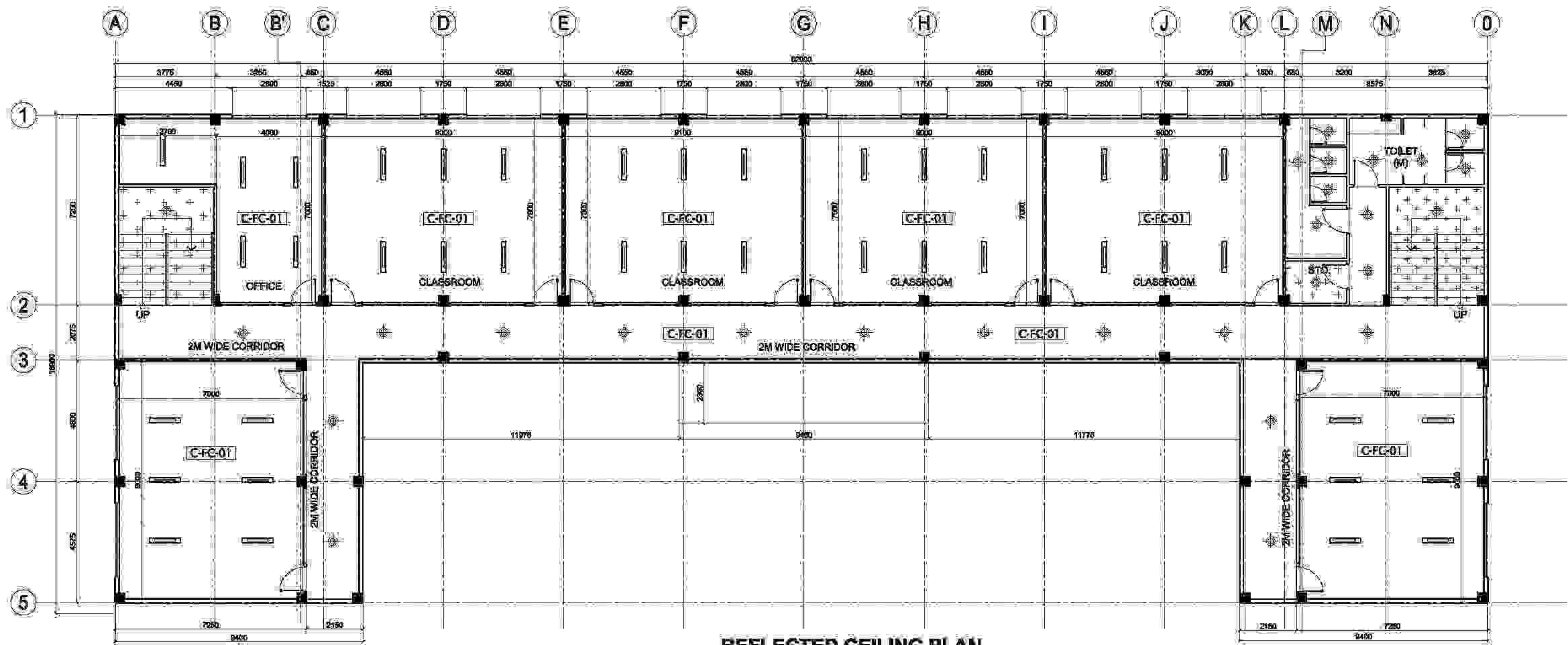
 <b>TAMAYO   REVISA Architects</b> LEYSON BLDG., ROXAS AVE. & CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES MOBILE NO. - 0920 7968 871 / (036) 284-4310 E-MAIL ADDRESS - ianrevisa@yahoo.com	PREPARED BY: <b>IAN KRISTOFFER J. REVISA</b> ARCHITECT	PRC: 008802 PRD: 1507203 DATE: JUNE 14, 2017 REASON: PRO-AKLAN REF: 294-699-699-000	PROJECT TITLE: <b>PROPOSED 2-TWO STOREY BIODIVERSITY          CONSERVATION AND DEVELOPMENT CENTER</b>	CLIENT: <b>AKLAN STATE UNIVERSITY</b>	RECOMMENDING APPROVAL: <b>DR. ANNA MAE C. REUNGO</b> <small>VICED PRESIDENT ADMINISTRATION</small>	APPROVED: <b>DR. DANILLO E. ABAYON</b> <small>SAC PRESIDENT</small>	SHEET CONTENT: <small>0 FRONT ELEVATION          0 REAR ELEVATION</small>	SHEET NO. <b>A-201</b>
	LOCATION: Aklan State University, Banga, Aklan		LOCATION: Aklan State University, Banga, Aklan		LOCATION: Aklan State University, Banga, Aklan		LOCATION: Aklan State University, Banga, Aklan	





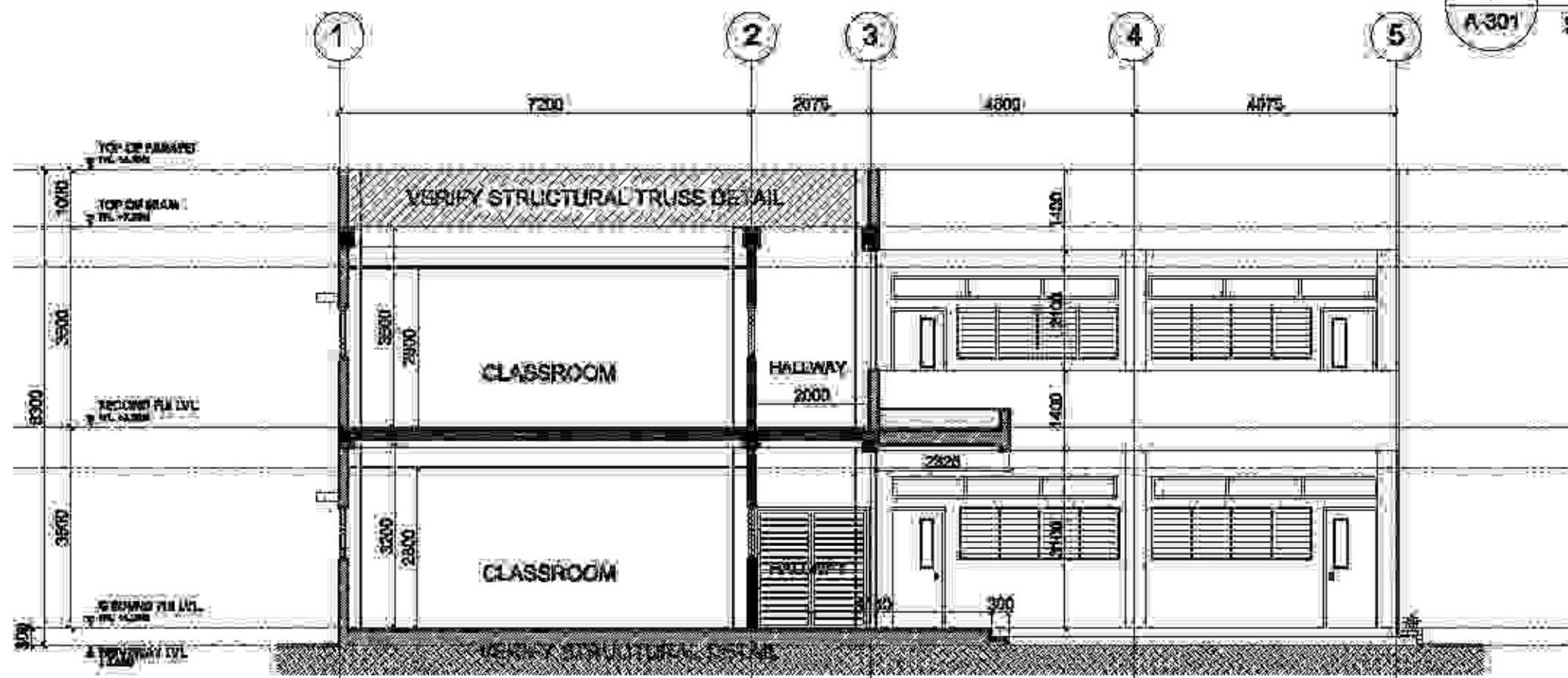
 <b>TAMAYO   REVISA Architects</b> LEYSON BLDG., ROXAS AVE. & CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES MOBILE NO. - 0920 7968 871 / (036) 284-4310 E-MAIL ADDRESS - <a href="mailto:ianrevisa@yahoo.com">ianrevisa@yahoo.com</a>	PREPARED BY: <b>IAN KRISTOFFER J. REVISA</b> ARCHITECT	PRC: 0088020 PR: 15072002 DATE: 06.14.2017 REASON: PRO-AKLAN	PROJECT TITLE: <b>PROPOSED 2-TWO STOREY BIODIVERSITY          CONSERVATION AND DEVELOPMENT CENTER</b>	OWNER: <b>AKLAN STATE UNIVERSITY</b>	RECOMMENDING APPROVAL: <b>DR. ANNA MAE C. REUNGO</b> <small>VICED PRESIDENT ADMINISTRATION</small>	APPROVAL: <b>DR. DANILLO E. ABAYON</b> <small>SAC PRESIDENT</small>	SHEET CONTENT: 0 RIGHT SIDE ELEVATION 0 LEFT SIDE ELEVATION 0 SECTION THRU X	SHEET NO. <b>A-202</b>
	PROJECT NO: 2016-001	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	PROJECT NO: 2016-001	PROJECT NO: 2016-001	PROJECT NO: 2016-001	PROJECT NO: 2016-001	PROJECT NO: 2016-001





**REFLECTED CEILING PLAN  
GROUND FLOOR**

1  
A-301 SCALE 1:100 MTR



**SECTION THRU Y**

Y  
A-301 SCALE 1:100 MTR

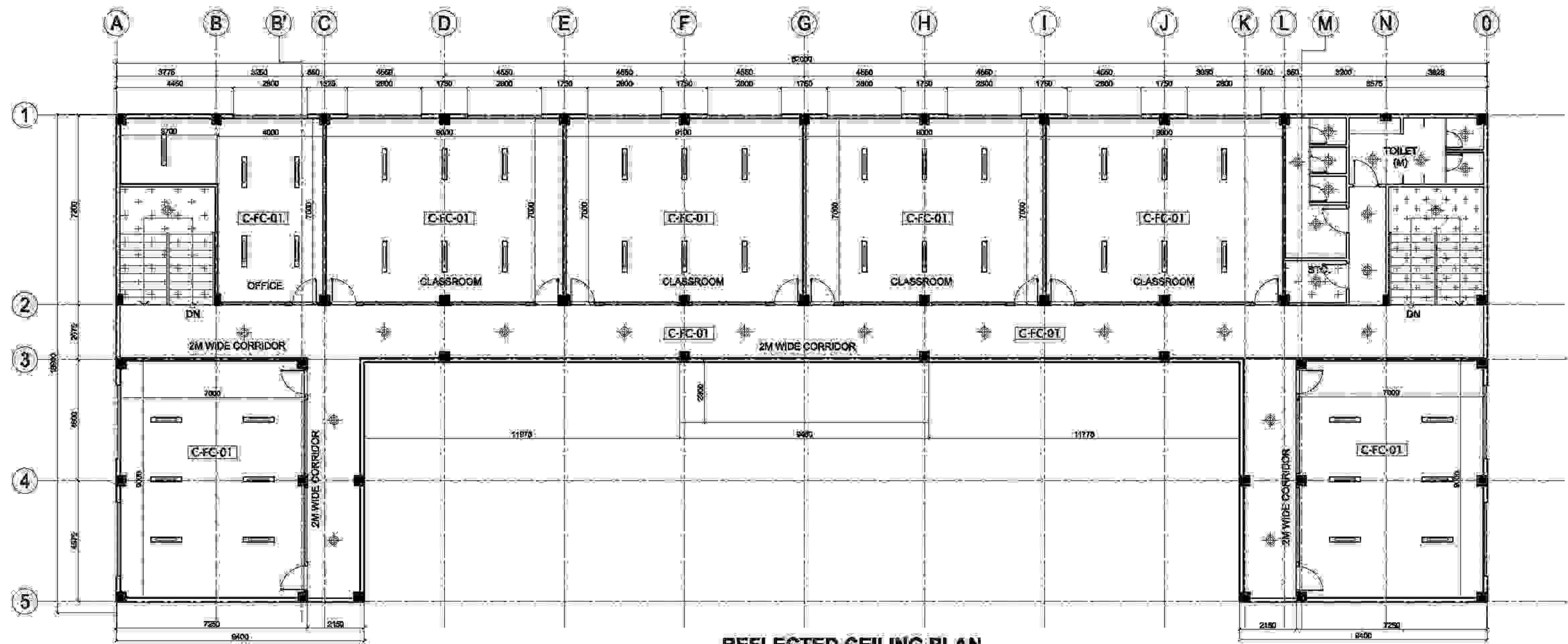
**LEGEND :**

ELECTRICAL - LIGHTING	
	SURFACE MOUNTED CEILING LIGHTING FIXTURE
	SURFACE MOUNTED FLUORESCENT LAMP
SCHEDULE OF FINISHES	
C-FC-01	FIBER CEMENT CEILING BOARD WITH PAINT FINISH ON SUSPENDED METAL FURRING
C-ES-02	EXPOSED SLAB SOFFIT ON PLAIN PAINT FINISH

- NOTE:
1. CORRIDOR CEILING LEVEL = +3.10mts. ABOVE FFL
  2. TOILET CEILING LEVEL = +2.50 mts. ABOVE FFL
  3. VERIFY MEP (MEP WORKS) PLAN FOR CORRESPONDING LAYOUT PLAN.
  4. CLASSROOM, OFFICE CEILING LEVEL = +2.80 MTS. ABOVE F.F.L.

 TAMAYO   REVISA Architects LEYSON BLDG., ROXAS AVE. & CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES MOBILE NO. - 0920 7968 871 / (036) 281-4310 E-MAIL ADDRESS - lorevsa@yahoo.com	PREPARED BY: <b>IAN KRISTOFFER J. REVISA</b> ARCHITECT	PRC: 008920 PRD: 15072002 DATE: 04.14.2017 REASON FOR AWARD: REV: 2014-09-09-000	PROJECT TITLE: <b>PROPOSED 2-TWO STOREY BIODIVERSITY CONSERVATION AND DEVELOPMENT CENTER</b>	CLIENT: <b>AKLAN STATE UNIVERSITY</b>	RECOMMENDING APPROVAL: <b>DR. ANNA MAE C. REUNGO</b>	APPROVAL: <b>DR. DANILLO E. ABAYON</b>	SHEET CONTENT: REFLECTED CEILING PLAN GROUND FLOOR SECTION THRU Y LEGEND	SHEET NO. <b>A-301</b>
	PREPARED BY: ARCHITECT	LOCATION: AKLAN STATE UNIVERSITY, BANGALAKAN	LOCALITY: AKLAN STATE UNIVERSITY, BANGALAKAN	RECOMMENDING APPROVAL: VICE PRESIDENT ADMINISTRATION	APPROVAL: SAC PRESIDENT			





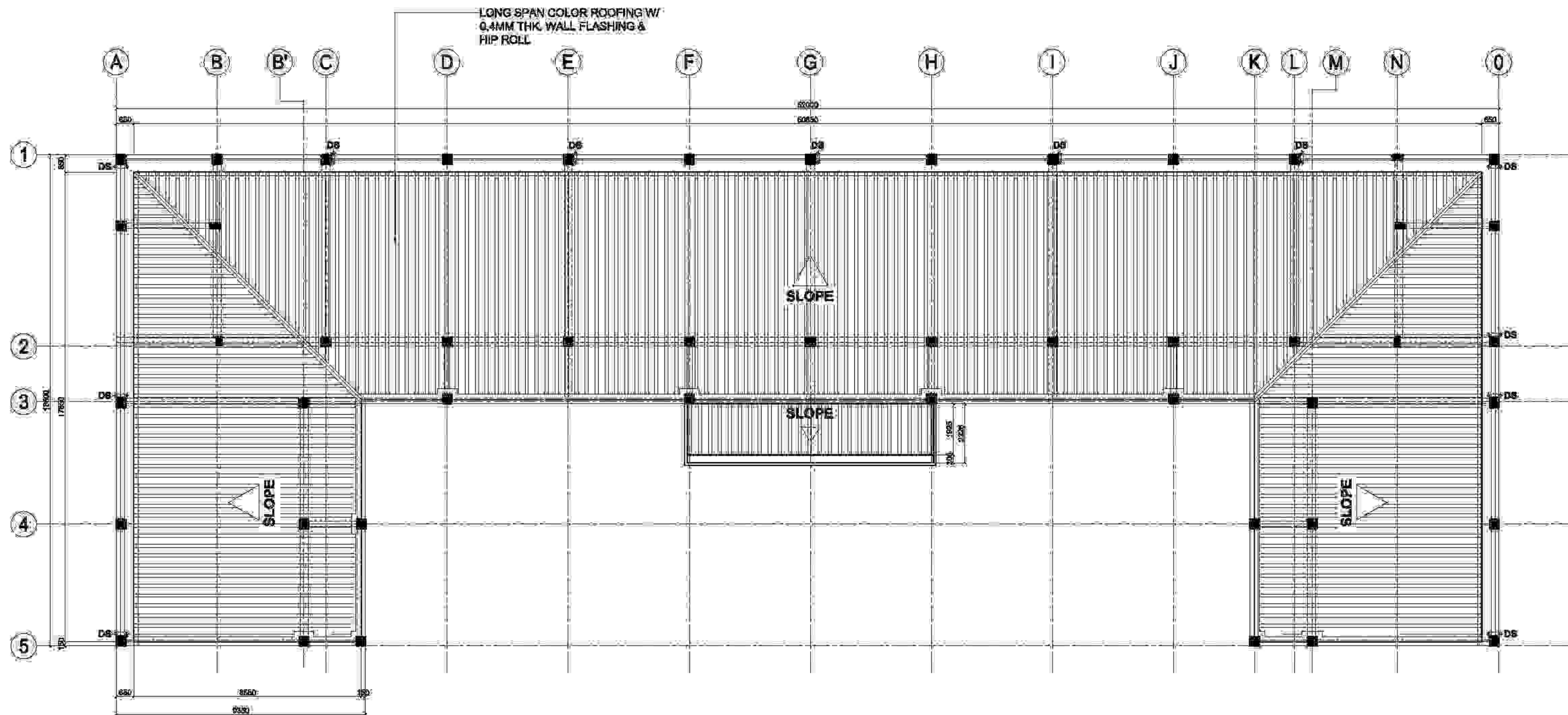
**REFLECTED CEILING PLAN  
SECOND FLOOR**  
1  
A-302  
SCALE 1:100 MTR.

**LEGEND :**


ELECTRICAL - LIGHTING	
	SURFACE MOUNTED CEILING LIGHTING FIXTURE
	SURFACE MOUNTED FLUORESCENT LAMP
SCHEDULE OF FINISHES	
C-FC-01	FIBER CEMENT CEILING BOARD WITH PAINT FINISH ON SUSPENDED METAL FURRING
C-ES-02	EXPOSED SLAB SOFFIT ON PLAIN PAINT FINISH

 <b>TAMAYO   REVISA Architects</b> LEYSON BLDG., ROXAS AVE. & CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES MOBILE NO. - 0920 7968 871 / (036) 281-4310 E-MAIL ADDRESS - lanrevisa@yahoo.com	PREPARED BY: <b>IAN KRISTOFFER J. REVISA</b> ARCHITECT	PRC: 008800 PRD: 157200 DATE: JUNE 14, 2017 REASON FOR AWARD: REV: 2014-09-09-00	PROJECT TITLE: <b>PROPOSED 2-TWO STOREY BIODIVERSITY CONSERVATION AND DEVELOPMENT CENTER</b>	CLIENT: <b>AKLAN STATE UNIVERSITY</b>	RECOMMENDING APPROVAL: <b>DR. ANNA MAE C. REUNGO</b> <small>VICED CHIEF ADMINISTRATOR</small>	APPROVAL: <b>DR. DANILLO E. ABAYON</b> <small>SAC PRESIDENT</small>	SHEET CONTROL: REFLECTED CEILING PLAN	SHEET NO. <b>A-302</b>
	PROJECT LOCATION: <b>AKLAN STATE UNIVERSITY, BANGALAKLAN</b>		PROJECT LOCATION: <b>AKLAN STATE UNIVERSITY, BANGALAKLAN</b>		PROJECT LOCATION: <b>AKLAN STATE UNIVERSITY, BANGALAKLAN</b>		PROJECT LOCATION: <b>AKLAN STATE UNIVERSITY, BANGALAKLAN</b>	

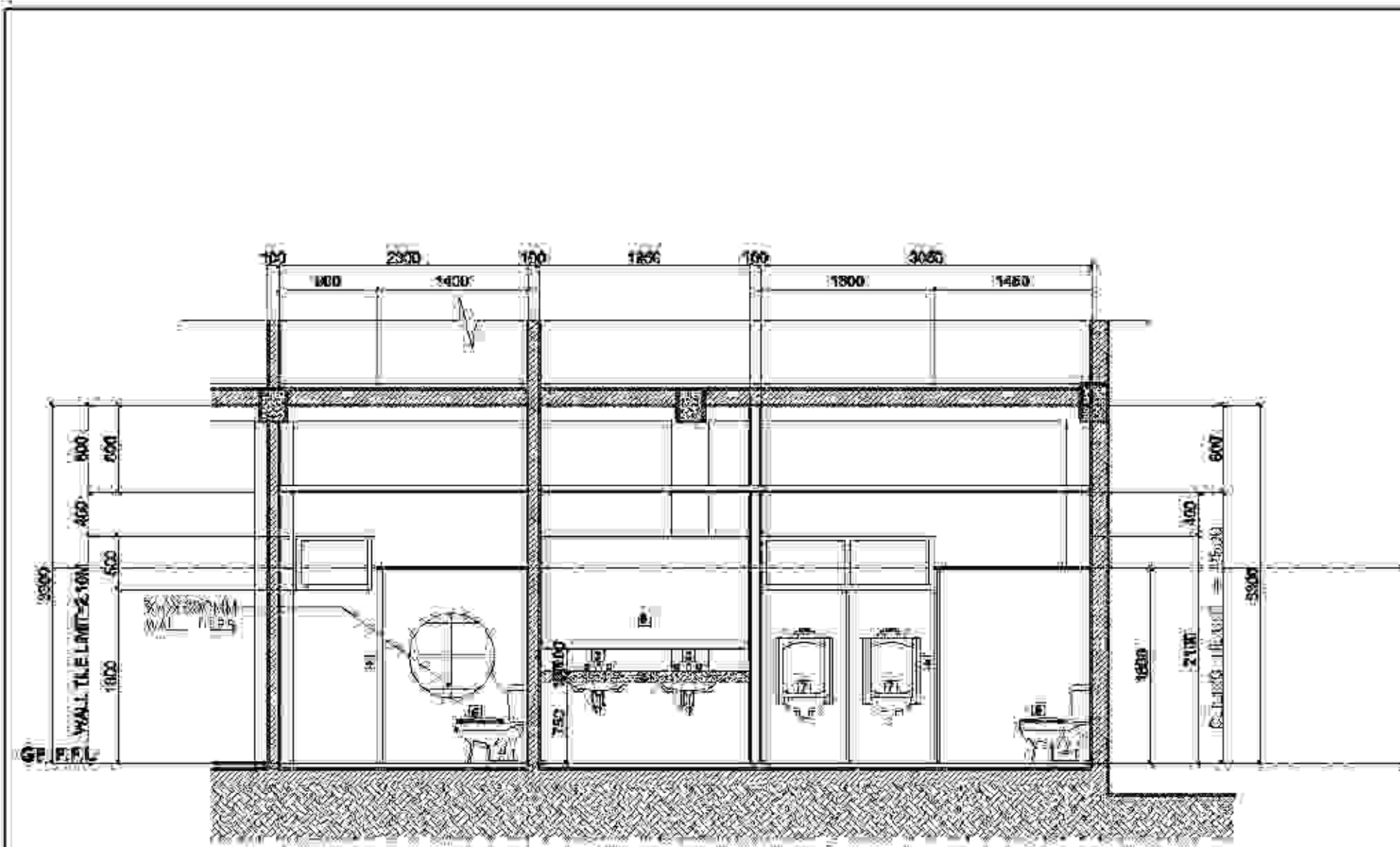




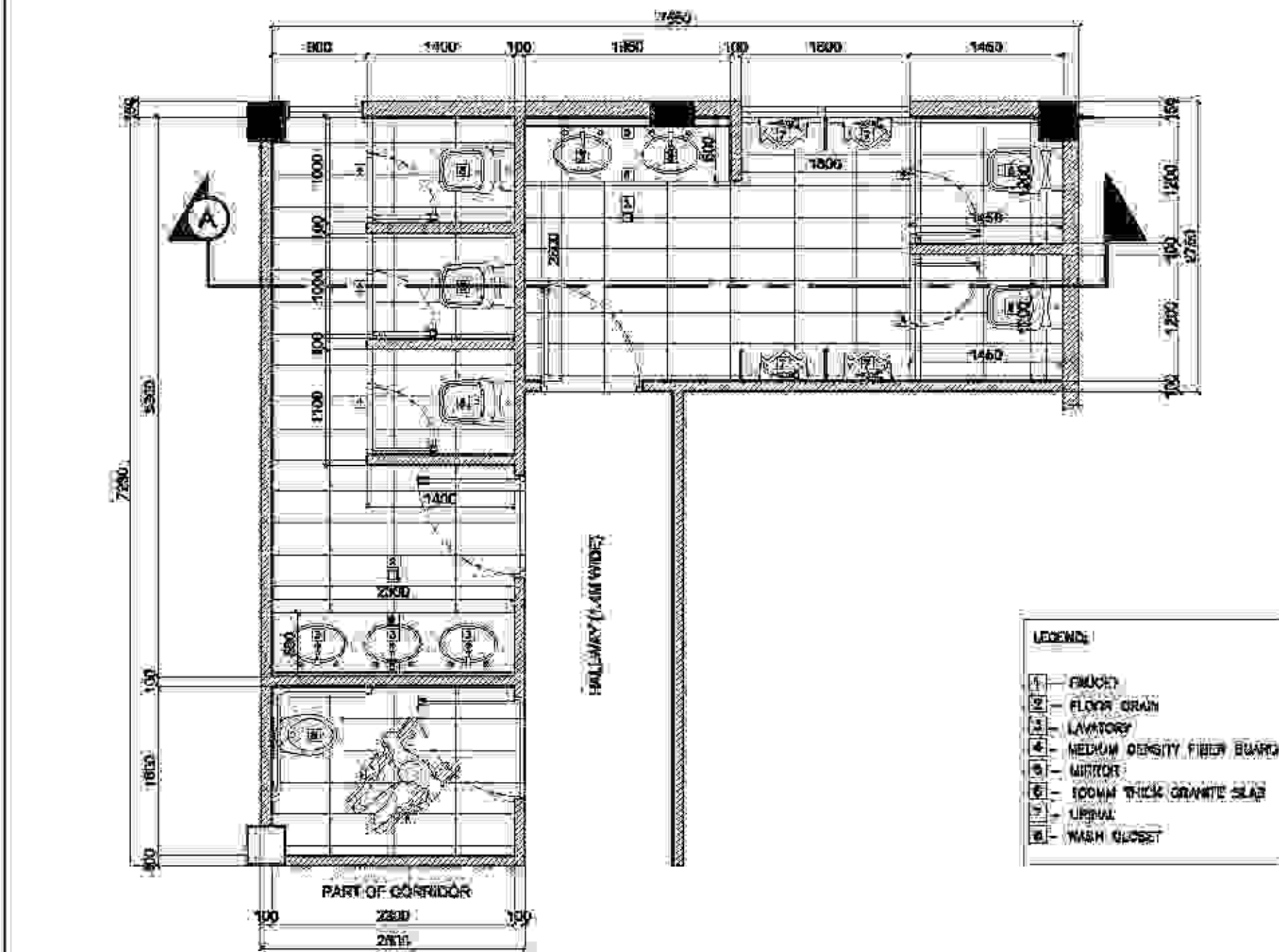
**1 ROOF PLAN**  
 A-303 SCALE 1:100 MTR.

 <b>TAMAYO   REVISA Architects</b> LEYSON BLDG., ROXAS AVE. & CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES MOBILE NO. - 0920 7968 871 / (038) 284-4310 E-MAIL ADDRESS - <a href="mailto:ianrevisa@yahoo.com">ianrevisa@yahoo.com</a>	PREPARED BY: <b>IAN KRISTOFFER J. REVISA</b> ARCHITECT	PRC: 0088020 PRD: 15072003 DATE: JUNE 14, 2017 REASON: PRO-KALIBO REG: 294-699-699-000	PROJECT TITLE: <b>PROPOSED 2-TWO STOREY BIODIVERSITY          CONSERVATION AND DEVELOPMENT CENTER</b>	OWNER: <b>AKLAN STATE UNIVERSITY</b>	RECOMMENDING APPROVAL: <b>DR. ANNA MAE C. REUNGO</b> <small>VICED PRESIDENT ADMINISTRATION</small>	APPROVAL: <b>DR. DANILLO E. ABAYON</b> <small>SAC PRESIDENT</small>	SHEET CONTROL: <small>PRO-KALIBO</small>	SHEET NO.: <b>A-303</b>
	<small>PROJECT NO: 1617444411010</small>	<small>LOCATION: AKLAN STATE UNIVERSITY, BANGALAKLAN</small>	<small>LOCALITY: AKLAN STATE UNIVERSITY, BANGALAKLAN</small>	<small>VICED PRESIDENT ADMINISTRATION</small>	<small>SAC PRESIDENT</small>			



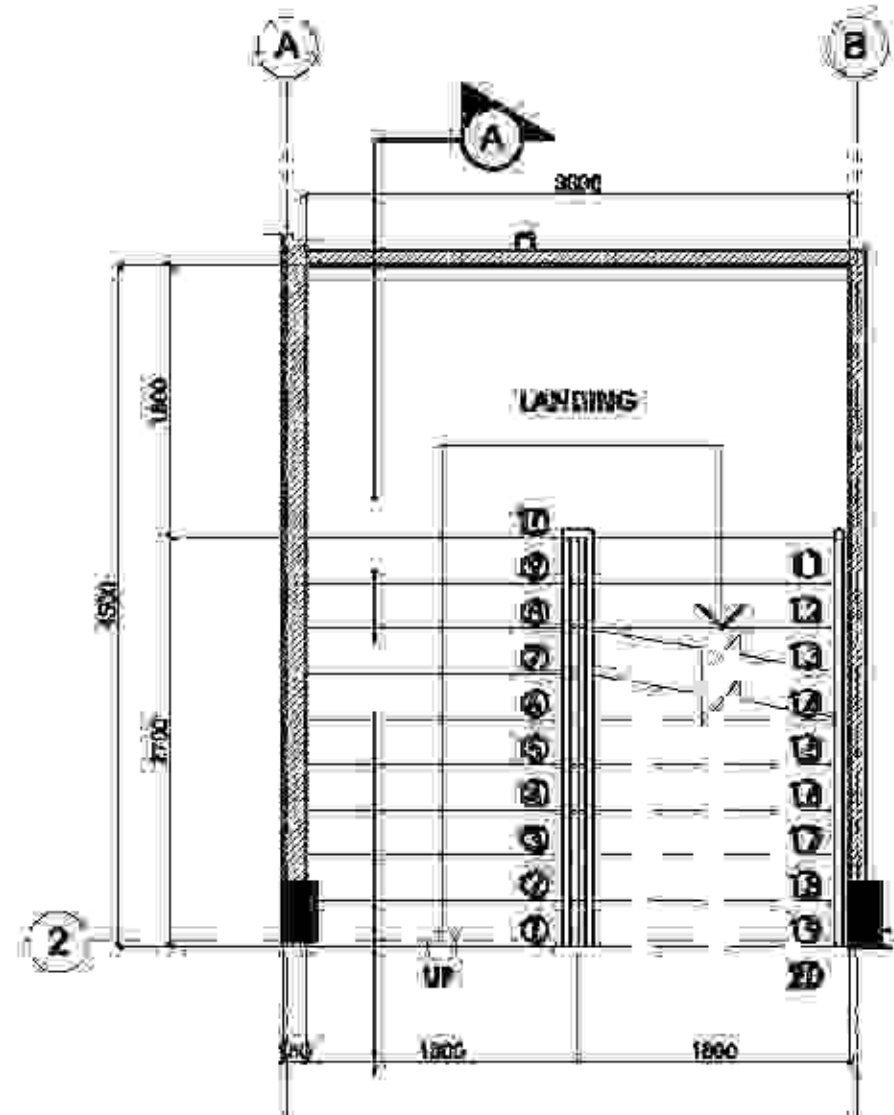


2 DETAIL SECTION OF TOILET  
A-401 SCALE 1:50 MTR

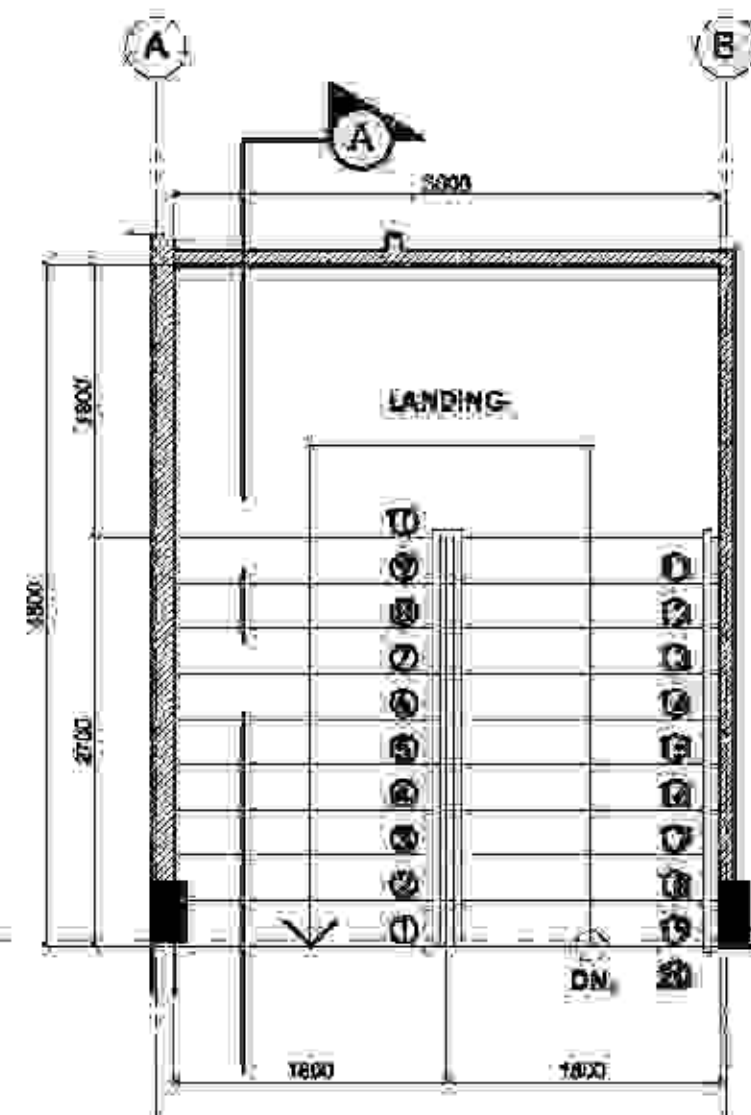


1 TYPICAL DETAIL PLAN OF TOILET  
A-401 SCALE 1:50 MTR

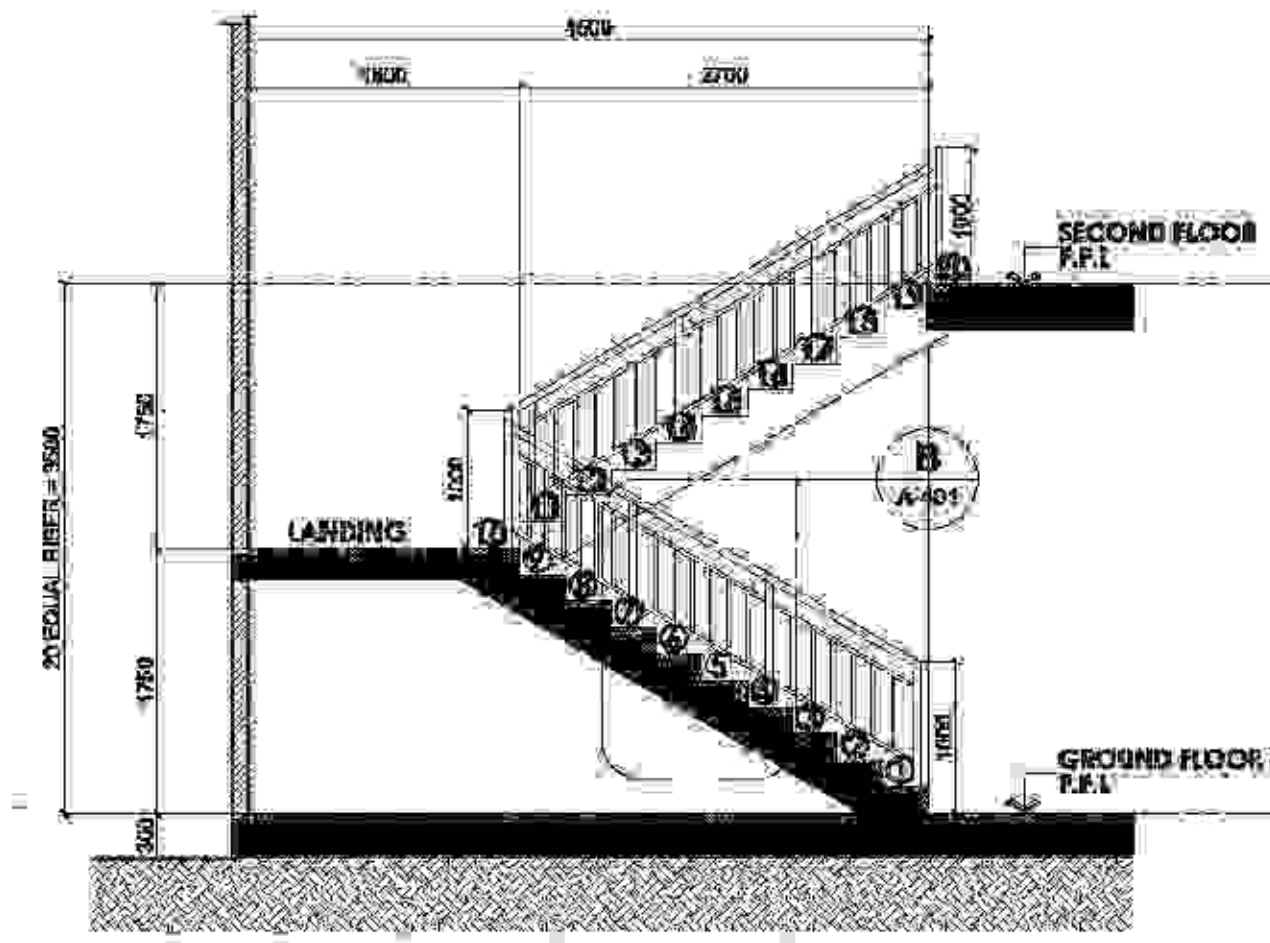
- LEGEND:
- 1 - FINISH
  - 2 - FLOOR GRAB
  - 3 - LAVATORY
  - 4 - MEDIUM DENSITY FIBER BOARD
  - 5 - MIRROR
  - 6 - 100MM THICK GRANITE SLAB
  - 7 - URINAL
  - 8 - WASH CLOSET



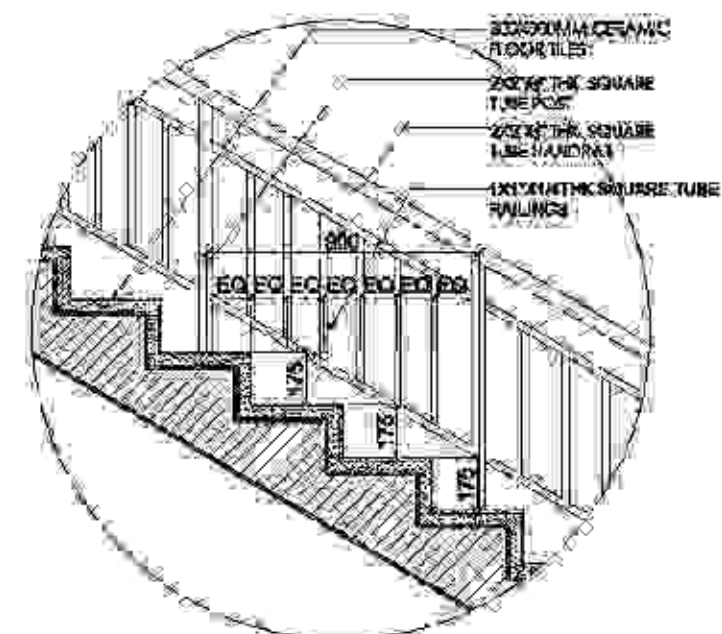
3 DETAIL PLAN OF STAIRS GROUND FLOOR  
A-401 SCALE 1:50 MTR



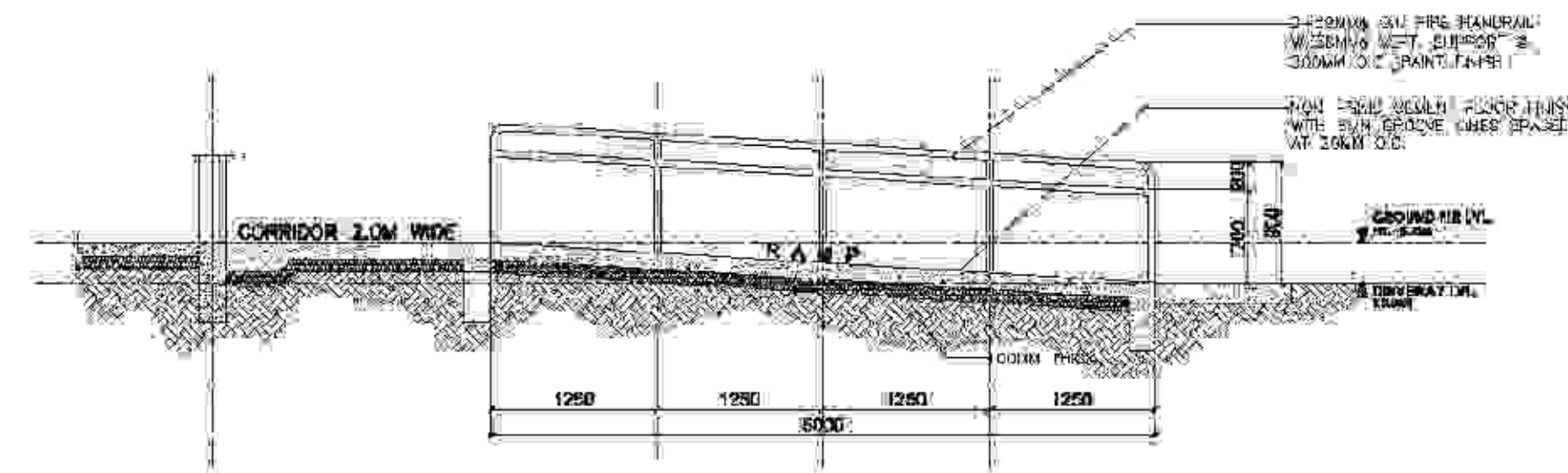
4 DETAIL PLAN OF STAIRS SECOND FLOOR  
A-401 SCALE 1:50 MTR



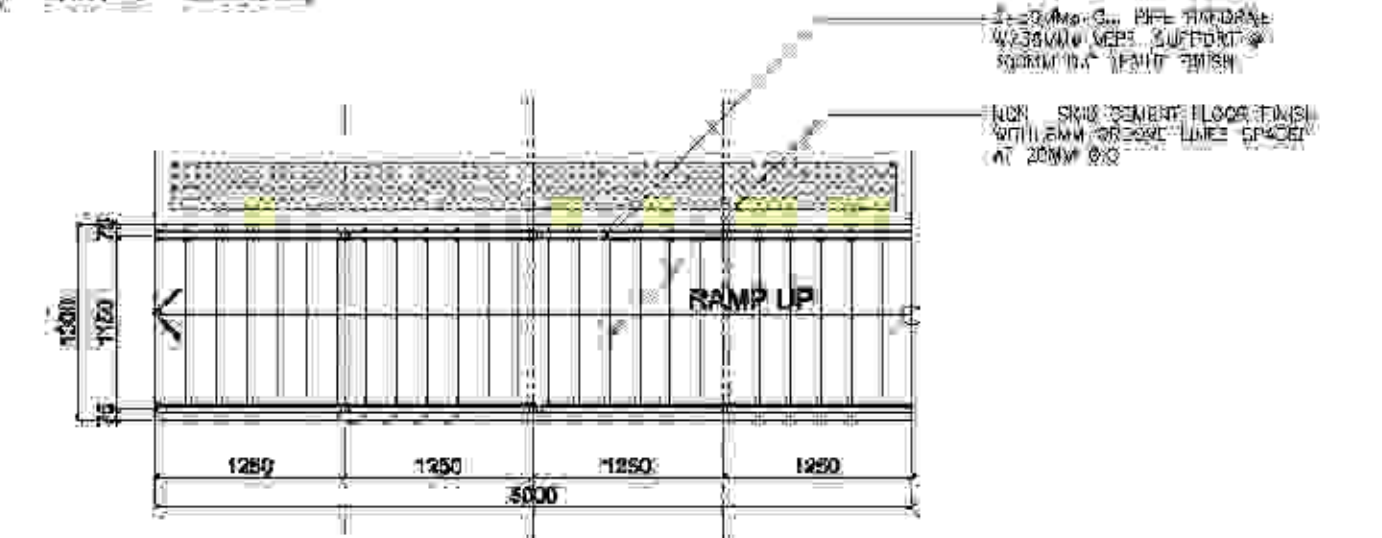
5 DETAIL SECTION @ A  
A-401 SCALE 1:50 MTR



B DETAIL SECTION @ B  
A-401 SCALE 1:50 MTR



6 DETAIL SECTION OF RAMP  
A-401 SCALE 1:50 MTR



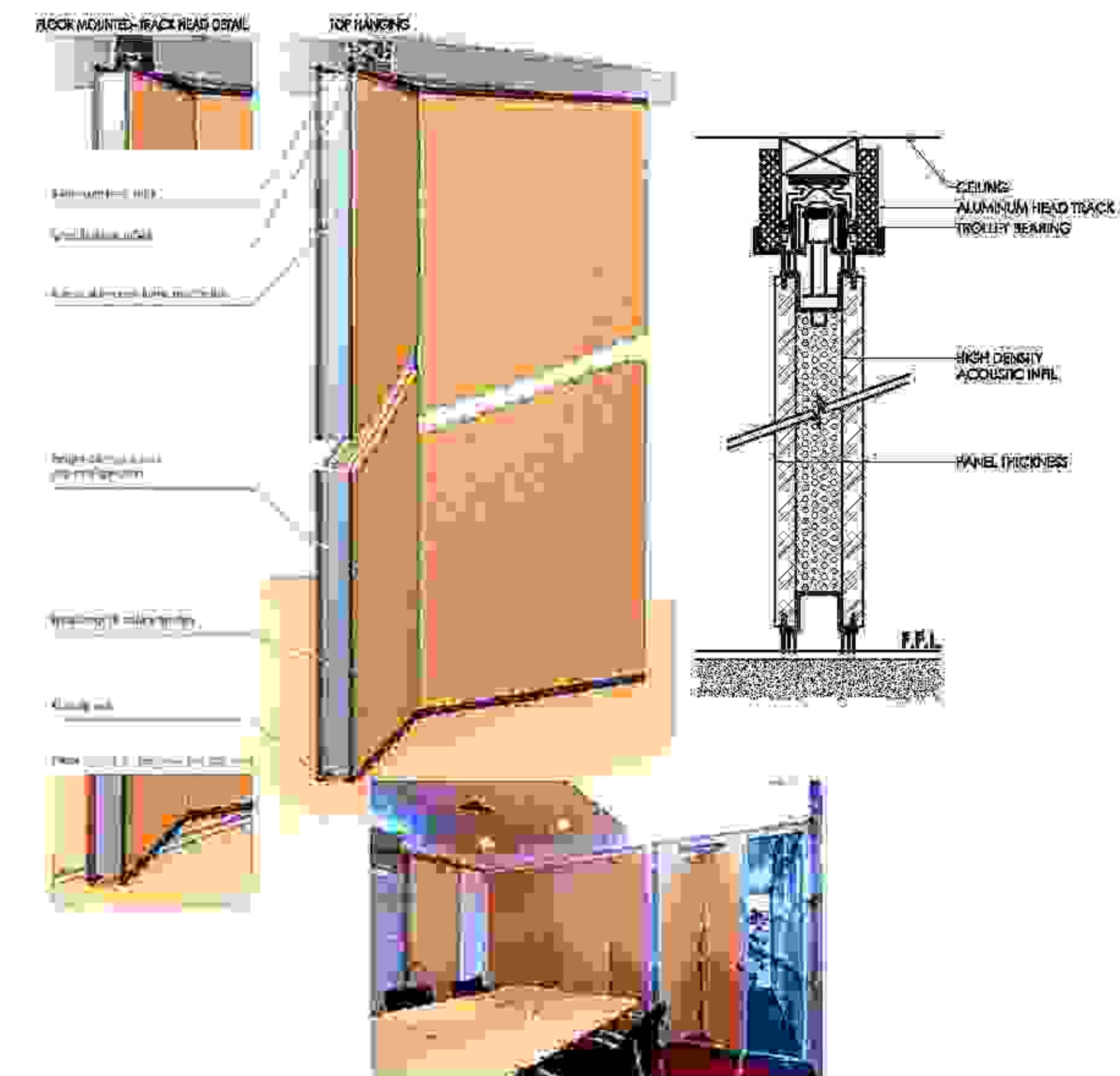
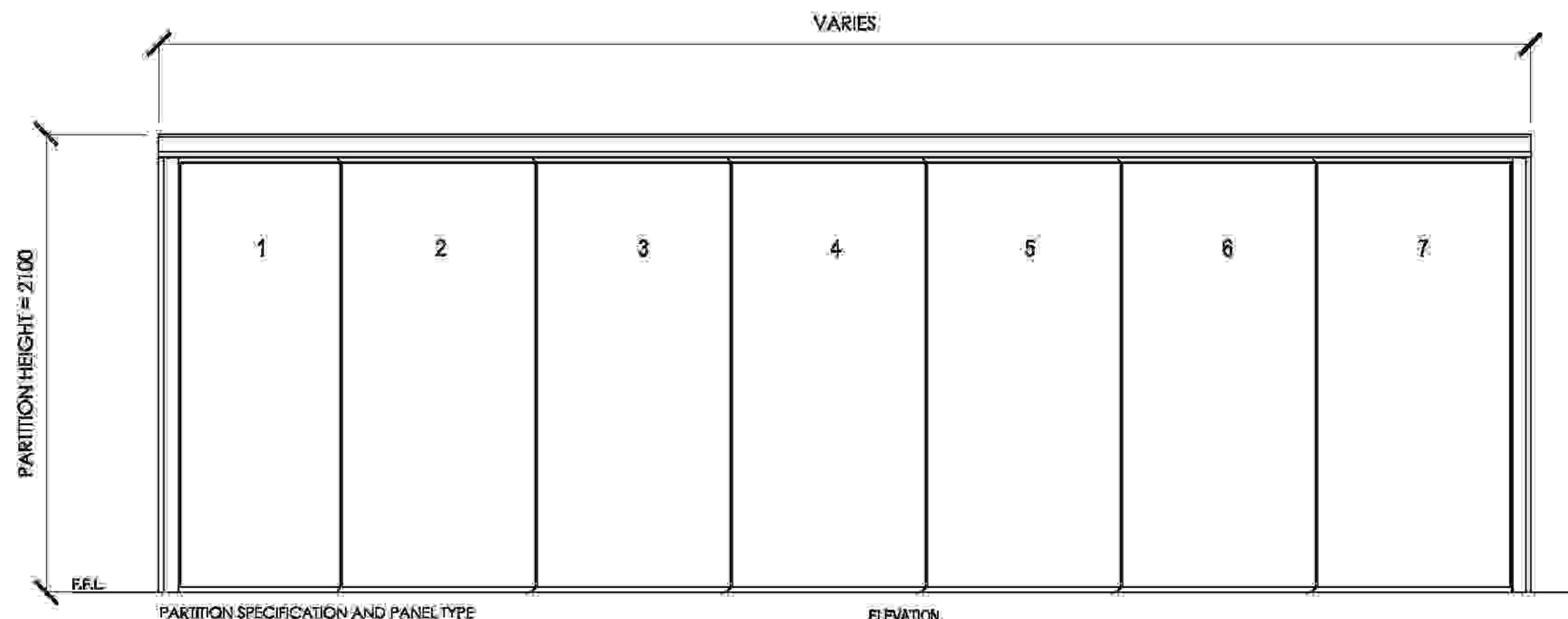
7 DETAIL PLAN OF RAMP  
A-401 SCALE 1:50 MTR

<p><b>TAMAYO   REVISIA Architects</b> LEYSON BLDG, ROXAS AVE. &amp; CALACI LUCHI ROAD, ANDAGAD, KALIDO, Aklan, PHILIPPINES MOBILE NO. - 0930 7908 0711 (038) 265-4810 E-MAIL ADDRESS - tamayorevisia@yahoo.com</p>	PREPARED BY: <b>IAN KRISTOFFER J. REVISIA</b>	PRC NO.: 1035025 PRC NO.: 1072285 DATE: JAN 14, 2017 DRAWN BY: IAN KRISTOFFER J. REVISIA TEL: 796-655-6500	PROJECT TITLE: <b>PROPOSED 2-TWO STOREY BIODIVERSITY CONSERVATION AND DEVELOPMENT CENTER</b>	OWNER: <b>AKLAN STATE UNIVERSITY</b>	RECOMMENDING APPROVAL: <b>DR. ANNA MAE C. BELINCO</b> VICE PRESIDENT ADMINISTRATION	APPROVED: <b>DR. DANILÒ E. ABAYON</b> SUC PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: <b>A-401</b>
	CHECKED BY: 	LOCATION: AKLAN STATE UNIVERSITY, KALIDAO, AKLAN	LOCAL USE: 					

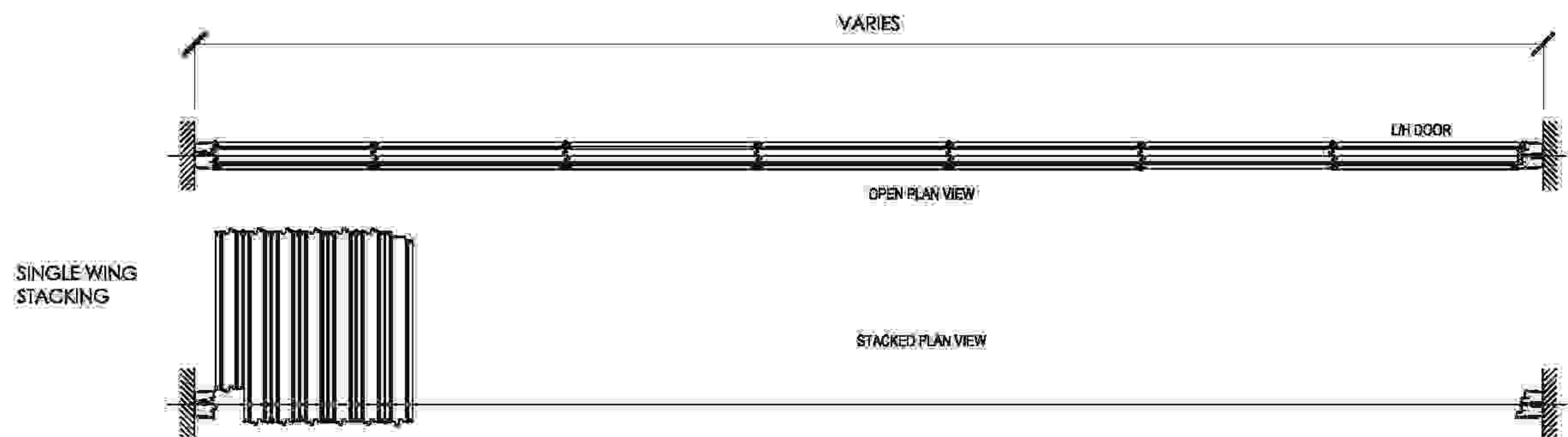








**2**  
A-501 SCALE NTS  
**DETAIL SECTION OF PARTITION**



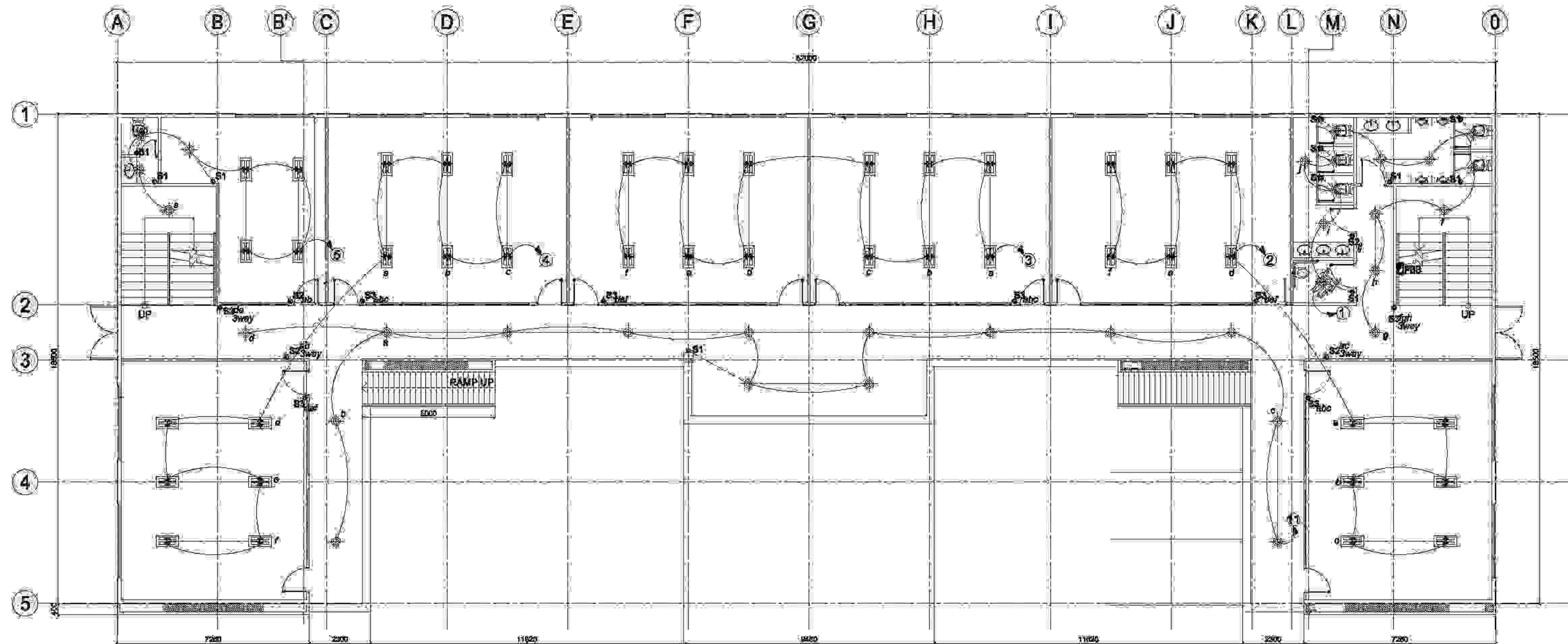
**1**  
A-501 SCALE NT8  
**DETAIL PLAN & ELEVATION OF PARTITION**

PRODUCT SPECIFICATIONS
62mm thk. (900mm Min. width) (1200mm max width)
Aluminum Track- 4.5mm x 78mm x 80mm (Satin fin)
Aluminum Jamb Frame- 1.2mm x 62mm alum. Profile powder coated fin. Satin fin.
Alum. Cope board- 45mm both top and bottom powder coated fin. Satin fin.
Carter System- 2 glider rollers for Alum. Track
End Panel Closure- Rotable type or telescopic element to seal the gap bet
Hinges- SOSS or stainless steel butterfly for door panel
Mechanical Cranking Seal- Manually operated retractable top and bottom seal panel
Panel Insulation- 60 kg/cm3 density rockwool insulation
Wall attachment and the last panel
Sound Transmission Class- 35-38 DB.
Laminated finish
Flush pull handle Nippon
With installation of Over head support


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 DELIVERY LOAD TIME: 2-3 weeks depending on the bulk order.

<p><b>TAMAYO   REVISA Architects</b>          LEYSON BLDG., ROXAS AVE. &amp; CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES          MOBILE NO. - 0920 7968 871 / (036) 288-4910          E-MAIL ADDRESS - tanrevisa@yahoo.com</p>	PREPARED BY: <b>IAN KRISTOFFER J. REVISA</b> ARCHITECT	PRC: 098920 PRD: 15072002 DATE: 04/14/2017 REASON FOR AWARD: REV: 294-699-699-000	PROJECT TITLE: <b>PROPOSED 2-TWO STOREY BIODIVERSITY CONSERVATION AND DEVELOPMENT CENTER</b>	OWNER: <b>AKLAN STATE UNIVERSITY</b>	RECOMMENDING APPROVAL: <b>DR. ANNA MAE C. REUNGO</b>	APPROVAL: <b>DR. DANILLO E. ABAYON</b>	SHEET CONTROL: 0-A501-001K	SHEET NO.: <b>A-501</b>
	PREPARED BY: ARCHITECT	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	RECOMMENDING APPROVAL: VICE PRESIDENT ADMINISTRATION	APPROVAL: SAC PRESIDENTS			

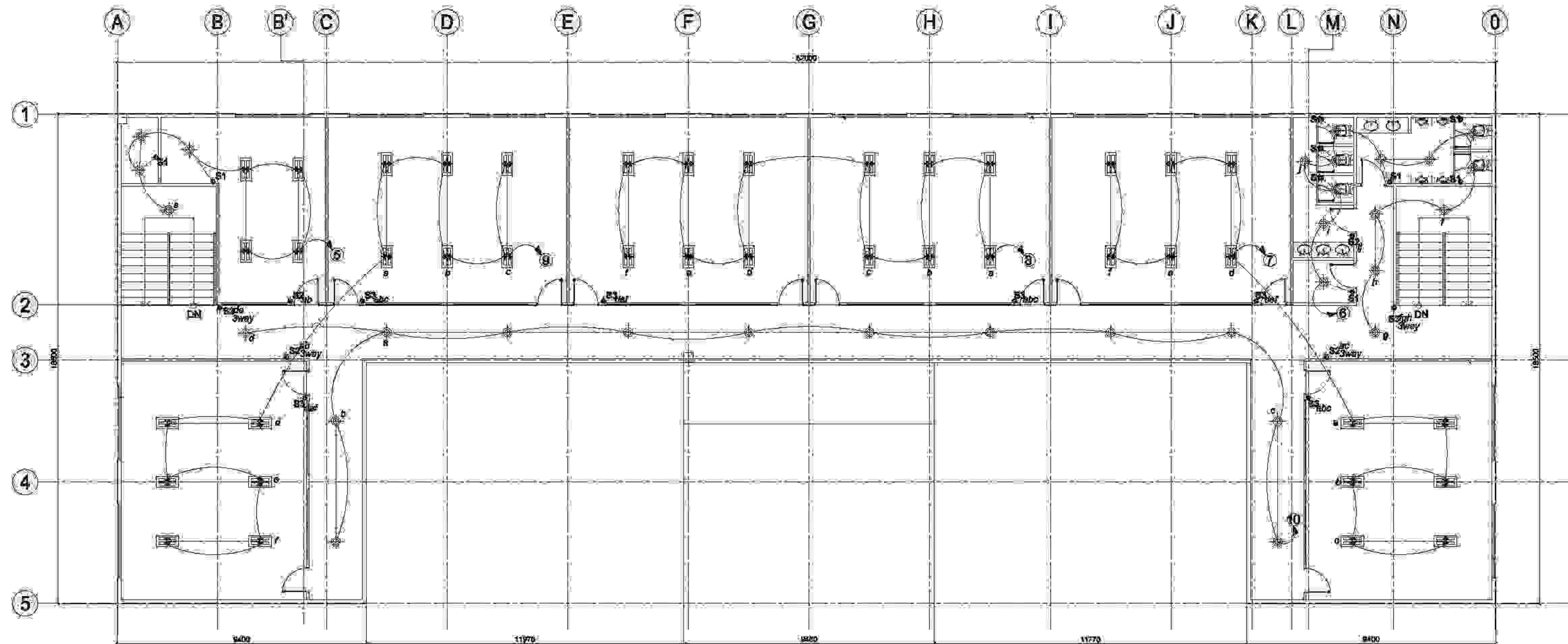




1  
**LIGHTING OUTLET LAYOUT**  
**GROUND FLOOR**  
 SCALE 1:100 MTR

	<b>TAMAYO   REVISA Architects</b> LEYSON BLDG., ROXAS AVE. & CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES MOBILE NO. - 0920 7968 871 / (036) 284-4310 E-MAIL ADDRESS - <a href="mailto:tanrevisa@yahoo.com">tanrevisa@yahoo.com</a>	PREPARED BY:  ELECTRICAL ENGINEER	PRC: PER: DATE: REASON: BY:	PROJECT TITLE:  <b>PROPOSED 2-TWO STOREY BIODIVERSITY          CONSERVATION AND DEVELOPMENT CENTER</b>	OWNER:  <b>AKLAN STATE UNIVERSITY</b>	LOCATION:  AKLAN STATE UNIVERSITY, BANGALAKLAN	RECOMMENDING APPROVAL:  <b>DR. ANNA MAE C. REUNGO</b>	APPROVAL:  <b>DR. DANILLO E. ABAYON</b>	SHEET CONTENT:  LIGHTING OUTLET LAYOUT (GROUND FLOOR)	SHEET NO.:  <b>E-101</b>
	PROJECT NO: JRS14MM1E101	RECOMMENDING APPROVAL: VICE PRESIDENT ADMINISTRATION	APPROVAL: SAC PRESIDENT	LOCATION: AKLAN STATE UNIVERSITY, BANGALAKLAN	RECOMMENDING APPROVAL: VICE PRESIDENT ADMINISTRATION	APPROVAL: SAC PRESIDENT	SHEET CONTENT: LIGHTING OUTLET LAYOUT (GROUND FLOOR)	SHEET NO.: <b>E-101</b>		

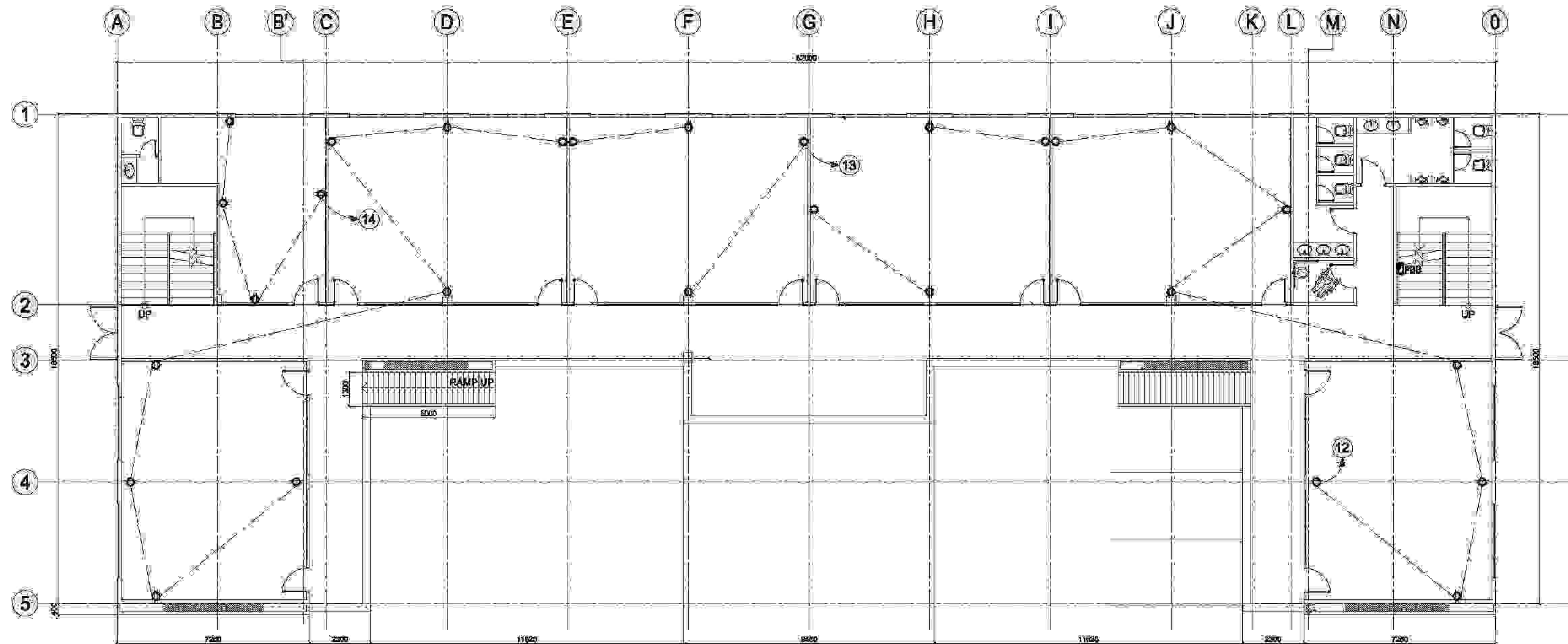




1  
**LIGHTING OUTLET LAYOUT**  
**SECOND FLOOR**  
 E-201 SCALE 1:100 MTR

	<b>TAMAYO   REVISA Architects</b> LEYSON BLDG., ROXAS AVE. & CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES MOBILE NO. - 0920 7968 871 / (036) 281-4310 E-MAIL ADDRESS - <a href="mailto:tanrevisa@yahoo.com">tanrevisa@yahoo.com</a>	PREPARED BY:  ELECTRICAL ENGINEER	PRC: PER: DATE: REASON: REV:	PROJECT TITLE: <p style="text-align: center;"><b>PROPOSED 2-TWO STOREY BIODIVERSITY CONSERVATION AND DEVELOPMENT CENTER</b></p>	CLIENT: <p style="text-align: center;"><b>AKLAN STATE UNIVERSITY</b></p>	RECOMMENDING APPROVAL: <b>DR. ANNA MAE C. REUNGO</b> <small>VICED PRESIDENT ADMINISTRATION</small>	APPROVED: <b>DR. DANILLO E. ABAYON</b> <small>SAC PRESIDENT</small>	SHEET CONTENT: LIGHTING OUTLET LAYOUT (SECOND FLOOR)	SHEET NO. <p style="text-align: center;"><b>E-201</b></p>
	<small>PROJECT NO: 18784MM1818</small>	<small>LOCATION: AKLAN STATE UNIVERSITY, BANGALAKLAN</small>	<small>LOCATION: AKLAN STATE UNIVERSITY, BANGALAKLAN</small>	<small>VICED PRESIDENT ADMINISTRATION</small>	<small>SAC PRESIDENT</small>	<small>PROJECT NO: 18784MM1818</small>	<small>VICED PRESIDENT ADMINISTRATION</small>	<small>SAC PRESIDENT</small>	<small>PROJECT NO: 18784MM1818</small>





**POWER OUTLET LAYOUT  
GROUND FLOOR**

1  
E-401 SCALE 1:100 MTR



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E-MAIL ADDRESS - [larrevisa@yahoo.com](mailto:larrevisa@yahoo.com)

PROJECT NO: 2018-001-010

PREPARED BY:

ELECTRICAL ENGINEER

PRC:

PREP:

DATE:

REASON:

BY:

PROJECT TITLE:

**PROPOSED 2-TWO STOREY BIODIVERSITY  
CONSERVATION AND DEVELOPMENT CENTER**

LOCATION:

AKLAN STATE UNIVERSITY, BANGALAKLAN

OWNER:

**AKLAN STATE UNIVERSITY**

LOCATION:

AKLAN STATE UNIVERSITY, BANGALAKLAN

RECOMMENDING APPROVAL:

**DR. ANNA MAE C. REUNGO**

VICED CHIEF ADMINISTRATION

APPROVED:

**DR. DANILLO E. ABAYON**

SAC PRESIDENT

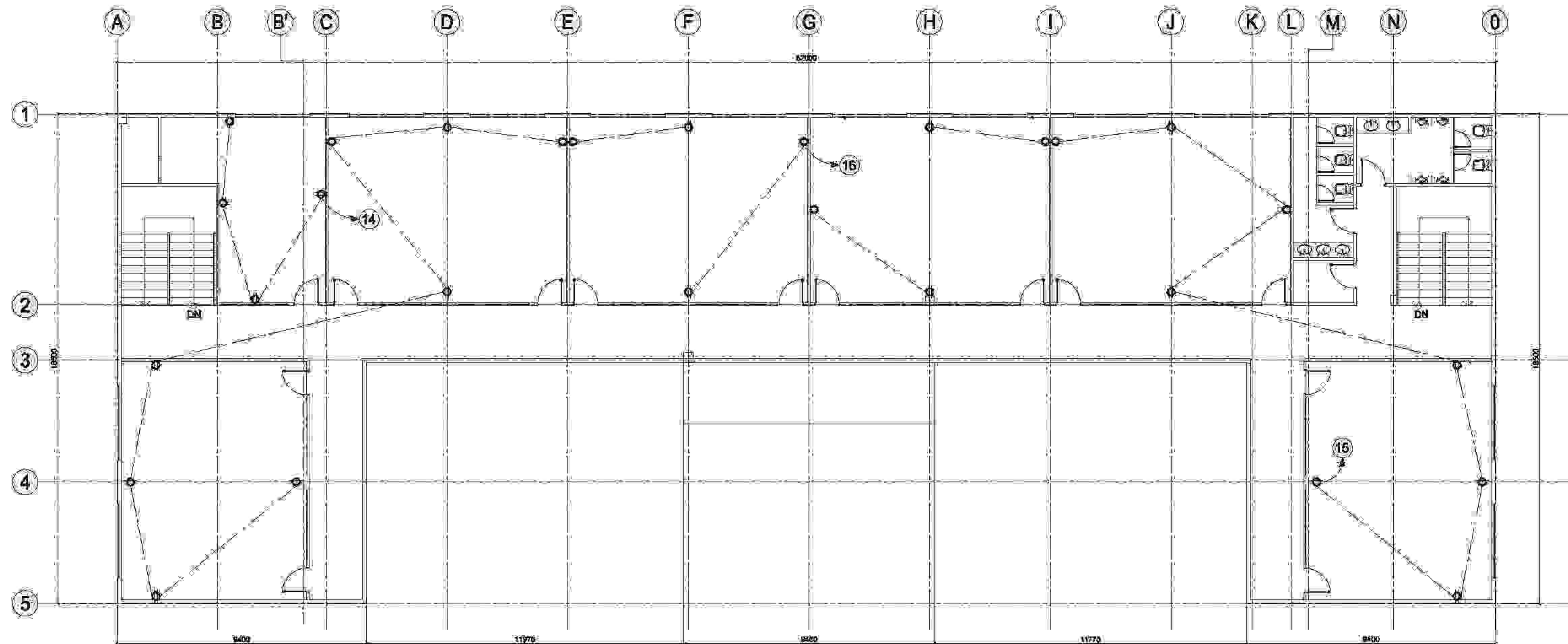
SHEET CONTENT:

POWER OUTLET LAYOUT  
(GROUND FLOOR)


SHEET NO.:

**E-301**





4
**POWER OUTLET LAYOUT  
SECOND FLOOR**  
 SCALE 1:100 MTR

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	<small>PROJECT NO: JRS18MM1218</small>	<small>ELECTRICAL ENGINEER</small>	<small>LOCATION: AKLAN STATE UNIVERSITY, BANGALAKLAN</small>	<small>LOCATION: AKLAN STATE UNIVERSITY, BANGALAKLAN</small>	<small>VICE PRESIDENT ADMINISTRATION</small>	<small>SAC PRESIDENT</small>		



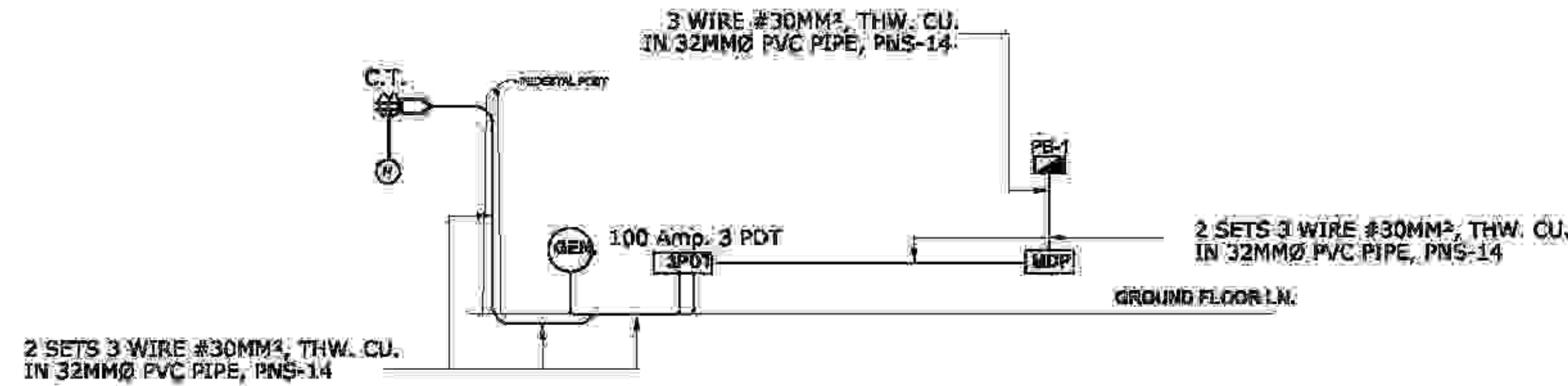
**GENERAL NOTES:**

ALL WORKS SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, LOCAL ORDINANCES AND REQUIREMENTS OF LOCAL ELECTRICAL UTILITY COMPANY.

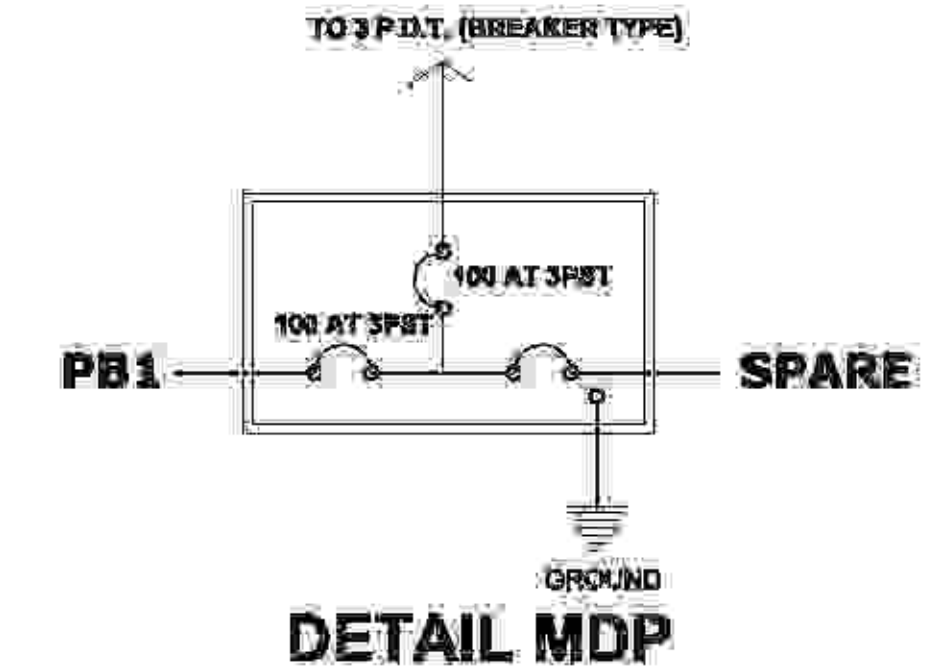
- 1.0 SERVICE POWER SHALL BE 230V, THREE PHASE, 3-WIRE + GROUND, 60HERTZ.
- 2.0 WIRING METHOD SHALL BE DONE IN POLYVINYL CHLORIDE (PVC) FOR LIGHTING, POWER AND AUXILIARY SYSTEM AND INTERMEDIATE METALLIC CONDUIT (IMC) FOR MAIN AND EMERGENCY FEEDER LINE, RESPECTIVELY.
- 3.0 SMALLEST BRANCH CIRCUIT WIRE SHALL BE NO. 3.5 MM SQ. THIN FOR POWER AND LIGHTING SYSTEM AND RACEWAY 15 MM DIAMETER TRADE SIZE EMT CONDUIT PIPE. ALL WIRES SHALL BE INSULATED FOR 900 VOLTS (PHELPS DODGE BRAND).
- 4.0 ALL BRANCH CIRCUITS SHALL BE INSTALLED AS INDICATED IN THE PLANS. INDIVIDUAL BRANCH CIRCUIT HOMERUNS SHALL NOT BE COMBINED IN THE SAME RACEWAY.
- 5.0 WHENEVER NECESSARY, PULLBOXES OF PROPER SIZE AND DIMENSIONS SHALL BE PROVIDED ALTHOUGH NOT INDICATED IN THE PLAN.
- 6.0 ALL JUNCTION AND PULLBOXES SHALL BE PROVIDED WITH METAL PLATE COVERS.
- 7.0 ALL FLOURESENT LAMP SHALL BE RAPID START TYPE WITH HIGH POWER FACTOR BALLAST, SPRING LOADED LAMP HOLDERS AND ENCLOSED IN A METALLIC BOX.
- 8.0 ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR ITS LOCATION AND PURPOSE.
- 9.0 ALL EXPOSED CONDUIT RUN SHALL BE INSTALLED PARALLEL TO OR PERPENDICULAR WITH THE BUILDING LINE AND SUPPORTED BY CONDUIT CLAMPS FOR EVERY 1.5 METERS DIAGONAL CONDUIT RUN SHALL NOT BE ACCEPTED.
- 10.0 THE ELECTRICAL CONTRACTOR IS REQUIRED TO VISIT THE SITE TO ASCERTAIN HIMSELF TO THE LOCAL CONDITIONS THAT MAY AFFECT HIS WORK.
- 11.0 ALL WIRES AND CABLES SHALL BE COLOR CODED AS FOLLOWS:
 

LINE 1	RED
LINE 2	YELLOW
LINE 3	BLACK
GROUND	GREEN
- 12.0 MOUNTING HEIGHTS NOT SHOWN IN THE PLAN SHALL BE AS FOLLOWS:
 

LIGHT CONTROLLED SWITCHES	1400MM AFFL @ CENTER
CONVENIENCE AND TELEPHONE OUTLET	300MM AFFL @ CENTER
	100MM ABOVE COUNTER IN BASEBOARD HEIGHT IN LOW PARTITION
UNITIZED PANELBOARD	1400MM AFFL @ CENTER UNLESS OTHERWISE INDICATED BY THE FIELD CONDITION
- 13.0 THE ELECTRICAL CONTRACTOR SHALL SECURE ALL WIRING PERMITS AND ALL FEES REQUIRED FOR THE WORK AND SHALL FURNISH THE OWNER THROUGH THE PROJECT MANAGER, CERTIFICATE OF FINAL ELECTRICAL INSPECTION (CFEI) AND APPROVAL FROM THE PROPER AUTHORITIES.
- 14.0 ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF DULY LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.
- 15.0 UPON COMPLETION OF ELECTRICAL WORK, INSULATION TEST, GROUNDING TEST AND LOAD BALANCE TEST SHALL BE CONDUCTED BY THE CONTRACTOR IN THE PRESENCE OF THE PROJECT MANAGER.
- 16.0 ALL WORKS HEREIN SHALL COMPLY TO THE CONSTRUCTION GUIDELINES OF CATIONAN DOMESTIC AIRPORT ENGINEERING DEPARTMENT AND SHALL BE COORDINATED WITH THE DESIGN ARCHITECT (RVP ARCHITECTS DESIGN AND DEVELOPMENT, CONSULTANTS INC.).
- 17.0 THE ELECTRICAL CONTRACTOR IS REQUIRED TO REPORT ANY DISCREPANCY TO THE PLANS AND SPECIFICATIONS IN THE ACTUAL SITE CONDITIONS.



**RISER DIAGRAM**

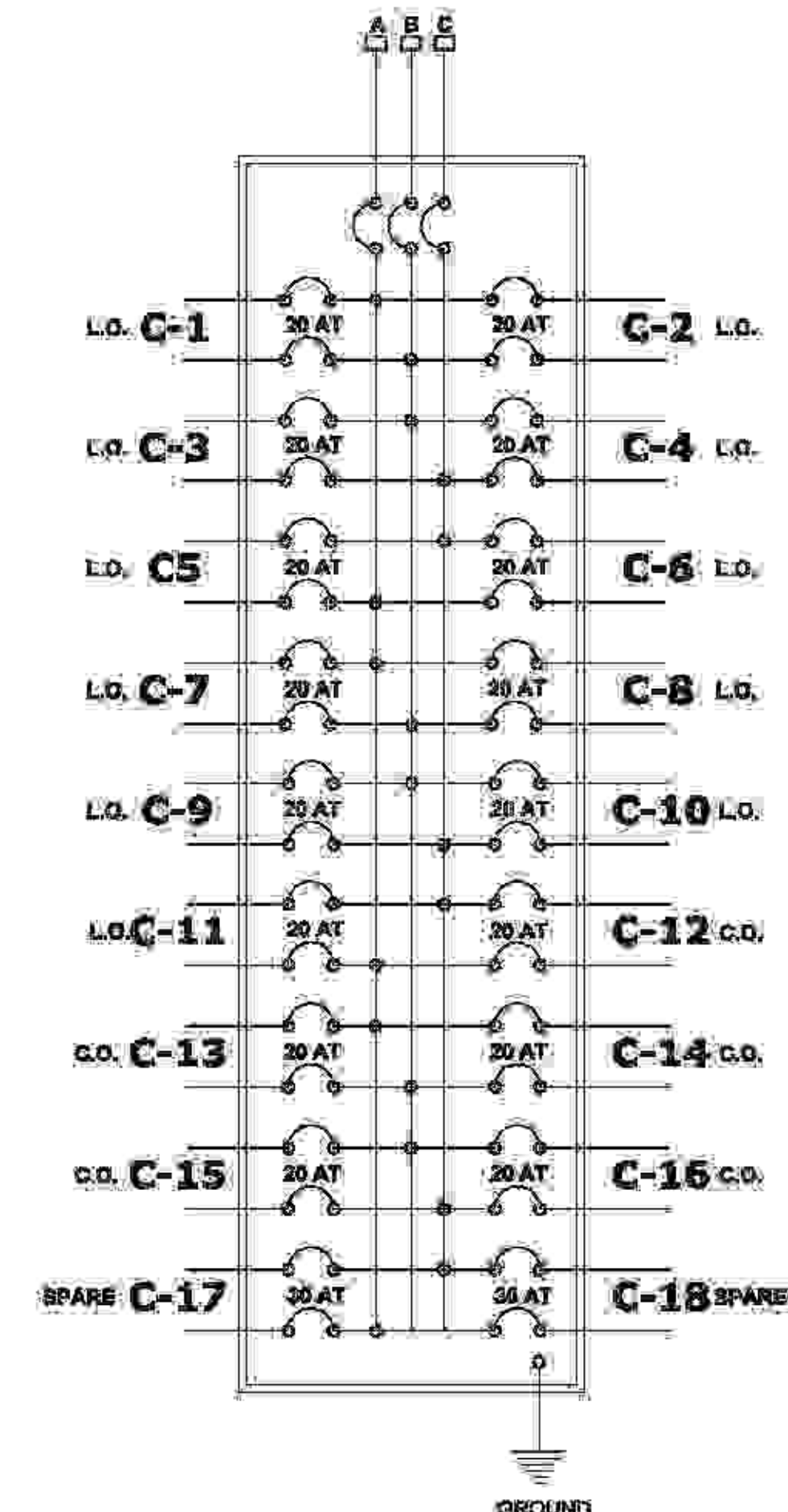
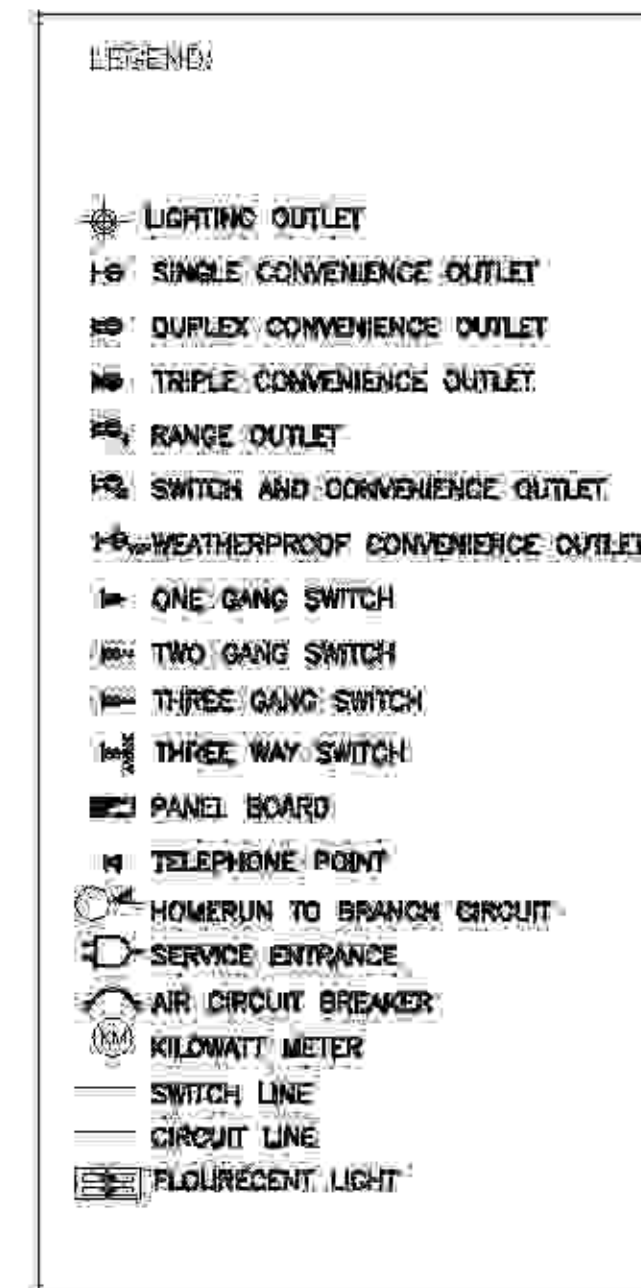


**NOTES:**

- FOR UNITIZED PANELBOARD
- 1.0 PANELBOARD SHALL HAVE MAIN CIRCUIT BREAKER CONSTRUCTION WITH BOLT-ON TYPE BRANCH CIRCUIT BREAKERS.
  - 2.0 MAIN CIRCUIT BREAKERS SHALL BE INDUSTRIAL TYPE MODED-CASE CIRCUIT BREAKERS ( SQUARE D ALL THROUGH-OUT )
  - 3.0 ALL CIRCUIT BREAKERS SHALL HAVE A MINIMUM OF 10 KILO AMPERE INTERRUPTING CAPACITY (KVIC), UNLESS OTHERWISE SPECIFIED.
  - 4.0 PROVIDE NAME PLATE FOR EACH PANEL.
  - 5.0 ALL CONNECTION FROM MAIN CIRCUIT BREAKER TO BRANCES SHALL BE SOLID COPPER BUSBAR, WIRE JUMPERS ARE NOT ALLOWED.
  - 6.0 PROVIDE SOLID NEUTRAL AND GROUNDING BUSBAR FOR EACH PANEL THE NUMBER OF TERMINALS SHALL BE CORRESPONDING TO THE NUMBER OF BRANCH CIRCUITS PER PANEL.
  - 7.0 THE UNITIZED PANELBOARD SHALL BE IN NEMA 1 ENCLOSURE, FREE-STANDING, TYPE, WITH COMPLETE METERING (AMMETER/VOLTMETER), MINIMUM GAUGE NO. 18, COLOR BEIGE.

**SPECIFICATIONS:**

- MATERIALS SPECIFICATIONS :**
- LIGHTING AND POWER SYSTEM**
    - POLYVINYL CHLORIED CONDUIT (PVC) SCH. 40
    - (NELTEX BRAND)
    - INTERMEDIATE METALLIC CONDUIT (IMC) (PANASONIC BRAND)
  - AUXILIARY SYSTEM**
    - PHELPS DODGE BRAND (THIN)
    - VERIFY ARCHITECT'S SPECIFICATIONS
  - WIRES AND CABLE**
    - FREE-STANDING, SURFACE MOUNTED
  - LIGHTING FIXTURES**
    - TYPE
    - GAUGE NO. 18
    - (FUMAGO BRAND OR APPROVE EQUAL)
    - NATIONAL COLOR WIRING DEVICES
  - BOXES AND ENCLOSURES**
    - NEMA 1 ENCLOSURE, GAUGE NO. 18
    - PVC ELECTRICAL TAPE
  - WIRING DEVICES:**
    - REFER TO DETAIL DRAWING
    - EDWARDS (MADE IN U.S.A.)
    - NEMA 1 ENCLOSURE, GAUGE NO. 18
  - PULLBOXES/WIRE GUTTER**
  - ELECTRICAL TAPE**
  - HANGERS AND SUPPORT**
  - FIRE ALARM SYSTEM**
  - CABLE TRAY SYSTEM**



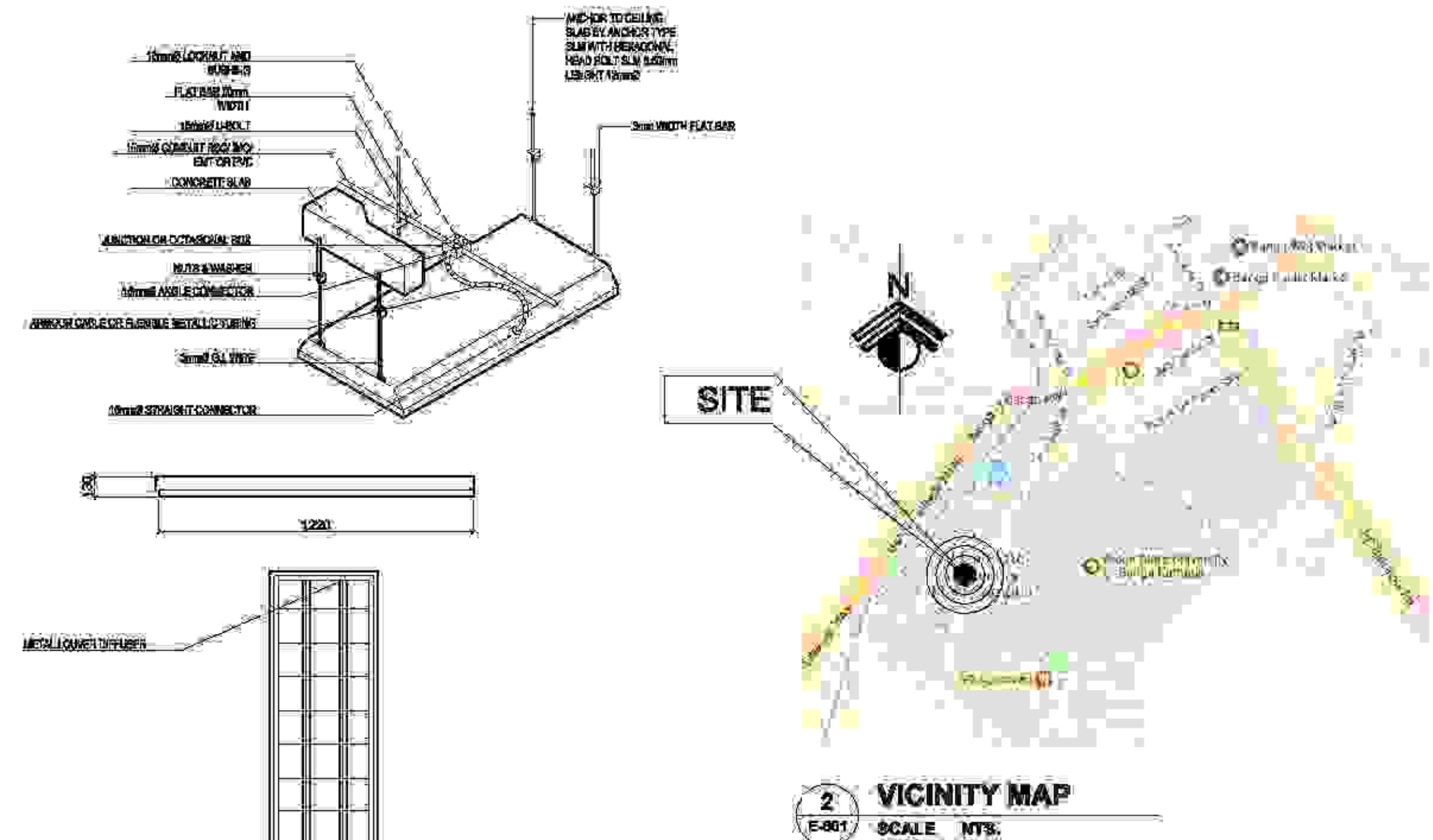
**DETAIL OF PBB**

<p><b>TAMAYO REVISIA Architects</b> LEYSON BLDG., ROXAS AVE. &amp; CALACHUCHI ROAD, ANTAGAO, KALIBO, Aklan, PHILIPPINES MOBILE NO. - 0920 7968 871 / (036) 288-4910 E-MAIL ADDRESS - lamayorevisia@yahoo.com</p>	PREPARED BY: _____ DATE: _____ RACD: _____ REV:	PROJECT TITLE: <p align="center"><b>PROPOSED 2-TWO STOREY BIODIVERSITY CONSERVATION AND DEVELOPMENT CENTER</b></p>	CLIENT: <p align="center"><b>AKLAN STATE UNIVERSITY</b></p>	RECOMMENDING APPROVAL: _____ APPROVED: _____	SHEET CONTROL: 0 GENERAL NOTES 0 RISE DIAGRAM 0 DETAIL OF PBB 0 DETAIL OF NDP	4/24/20 <p align="center"><b>E-501</b></p>
	ELECTRICAL ENGINEER	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	VICE PRESIDENT ADMINISTRATION	SAC PRESIDENT	



**SCHEDULE OF LOADS PB - 1**

LOAD SCHEDULE AND COMPUTATION													100 AT, 3-PHASE, 3-WIRE + GROUND 230 V, SURFACE MOUNTED				
PANEL/CKT. #	DESCRIPTION OF LOADS	PHASE	L.O.	C.O.	S1	S2	S3	3WAY	# AB	# BC	# CA	CIRCUIT PROTECTION	SIZE OF WIRE	SIZE OF CONDUIT			
1	12PCS - PINLIGHT W/ 18 WATTS, CFL	1Ø	14	-	7	1	1	1	1.10	-	-	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
2	12PCS - FLUORESCENT LAMP (2@40W)		12	-	-	2	-	-	4.17	-	-	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
3	12PCS - FLUORESCENT LAMP (2@40W)		12	-	-	2	-	-	4.17	-	-	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
4	12PCS - FLUORESCENT LAMP (2@40W)		12	-	-	2	-	-	4.17	-	-	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
5	8PCS - PINLIGHT W/ 18 WATTS, CFL 8PCS - FLUORESCENT LAMP (2@40W)		16	-	5	3	-	2	-	-	3.41	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
6	12PCS - PINLIGHT W/ 18 WATTS, CFL		14	-	7	1	1	1	1.10	-	-	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
7	12PCS - FLUORESCENT LAMP (2@40W)		12	-	-	2	-	-	4.17	-	-	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
8	12PCS - FLUORESCENT LAMP (2@40W)		12	-	-	2	-	-	4.17	-	-	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
9	12PCS - FLUORESCENT LAMP (2@40W)		12	-	-	2	-	-	4.17	-	-	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
10	12PCS - PINLIGHT W/ 18 WATTS, CFL		14	-	7	1	1	1	1.10	-	-	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
11	12PCS - PINLIGHT W/ 18 WATTS, CFL		14	-	7	1	1	1	1.10	-	-	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
12	12 PCS - C.O. @ 180 V.A.		12	-	-	-	-	-	6.36	-	-	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
13	12 PCS - C.O. @ 180 V.A.		12	-	-	-	-	-	6.36	-	-	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
14	8 PCS - C.O. @ 160 V.A.		8	-	-	-	-	-	6.26	-	-	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
15	12 PCS - C.O. @ 180 V.A.		12	-	-	-	-	-	6.36	-	-	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
16	12 PCS - C.O. @ 180 V.A.		12	-	-	-	-	-	6.36	-	-	20 AT 2P	2 - WIRE # 3.5 sq. mm., THW	20 MM Ø PVC PIPE, PMS-14			
17	S P A R E		-	-	-	-	-	-	5.00	-	-	3Ø AT 2P	2 - WIRE # 5.5 sq. mm., THW	25 MM Ø PVC PIPE, PMS-14			
18	S P A R E		-	-	-	-	-	-	5.00	-	-	3Ø AT 2P	2 - WIRE # 5.5 sq. mm., THW	25 MM Ø PVC PIPE, PMS-14			
	<b>TOTAL</b>		<b>129</b>	<b>60</b>	<b>20</b>	<b>9</b>	<b>14</b>	<b>8</b>	<b>28.28</b>	<b>32.31</b>	<b>25.07</b>		<b>2 - WIRE # 30 sq. mm., THW</b>	<b>32 MM Ø PVC PIPE, PMS-14</b>			



**FEEDER COMPUTATION:**

$$I_{FL} = 32.31 \text{ A} \times 1.732 = 55.96 \text{ Amp.}$$

USE: 3 - WIRE # 30 SQ. MM. THHN, CU.  
+ 1 - 5.5MM<sup>2</sup> THHN GROUND CU  
WIRE IN 32MMØ RSC PIPE

**PROTECTION COMPUTATION:**

$$I_{CB} = 55.96 \text{ A} \times 1.25 = 69.95 \text{ Amp.}$$

USE: 100 Amp, 3 POLE

**SCHEDULE OF LOADS TOTAL SUMMARY**

CKT.#	DESCRIPTION OF LOADS	KW	V	Ø	AMPERE LOAD			CIRCUIT BREAKER			SIZE OF CONDUCTOR		SIZE OF CONDUIT	
					AB	BC	CA	3Ø	POLE	AT	AF	KAJIC	SQ.MM THHN + SQ.MM THHN (G)	IN MMØ
1	PANE 1	-	230	3	28.28	32.31	25.07	-	3	100	100	35	3-30+1-5.5 (G)	32MMØ PVC PIPE, PMS-14
2	SPARE	-	230	3	-	-	-	-	-	-	-	-	-	-
	<b>TOTAL</b>	-	-	-	<b>28.28</b>	<b>32.31</b>	<b>25.07</b>	-	-	-	-	-	<b>3-30+1-5.5 (G)</b>	<b>32MMØ PVC PIPE, PMS-14</b>

**FEEDER COMPUTATION:**

$$I_{FL} = 32.31 \text{ A} \times 1.732 = 55.96 \text{ Amp.}$$

**PROTECTION COMPUTATION:**

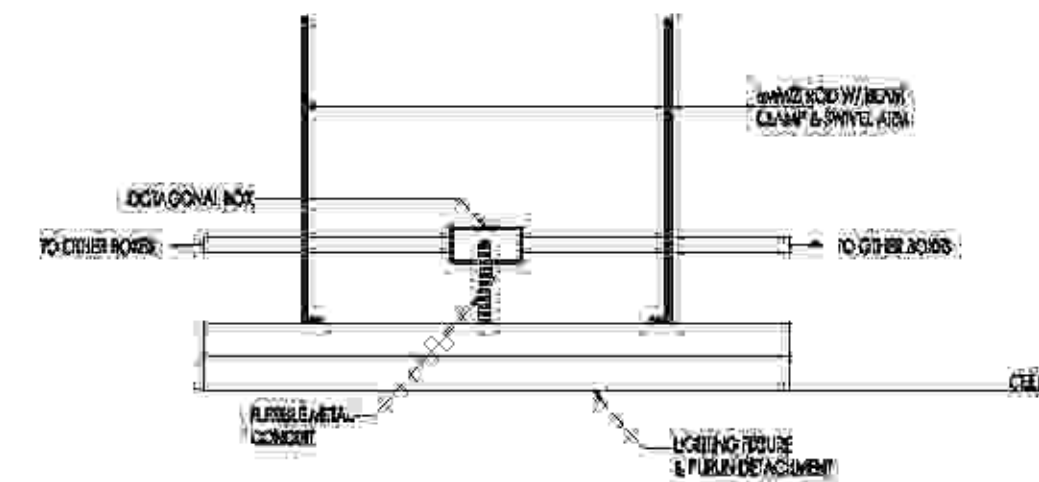
$$I_{CB} = 55.96 \text{ A} \times 1.25 = 69.95 \text{ Amp.}$$

USE: 100 Amp, 3 POLE

USE: 3 - WIRE # 30 SQ. MM. THHN, CU.  
+ 1 - 5.5MM<sup>2</sup> THHN GROUND CU  
WIRE IN 32MMØ RSC PIPE

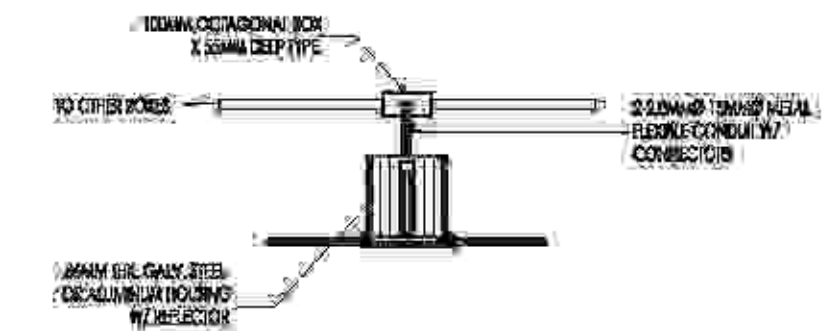
**FLOURESCENT FIXTURE DETAIL**

SCALE: N.T.S.



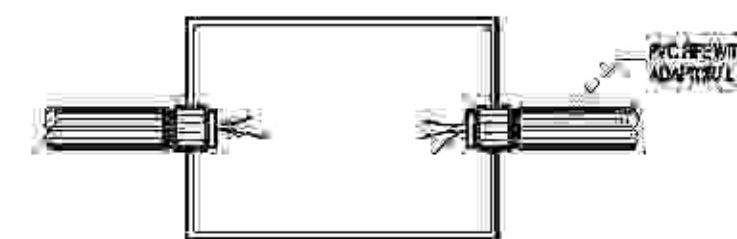
**PINLIGHT FIXTURE INSTALLATION DETAIL**

SCALE: N.T.S.



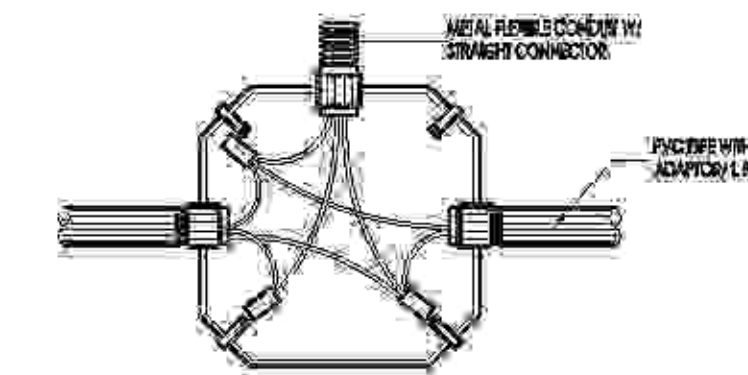
**UTILITY BOX CONNECTION**

SCALE: N.T.S.

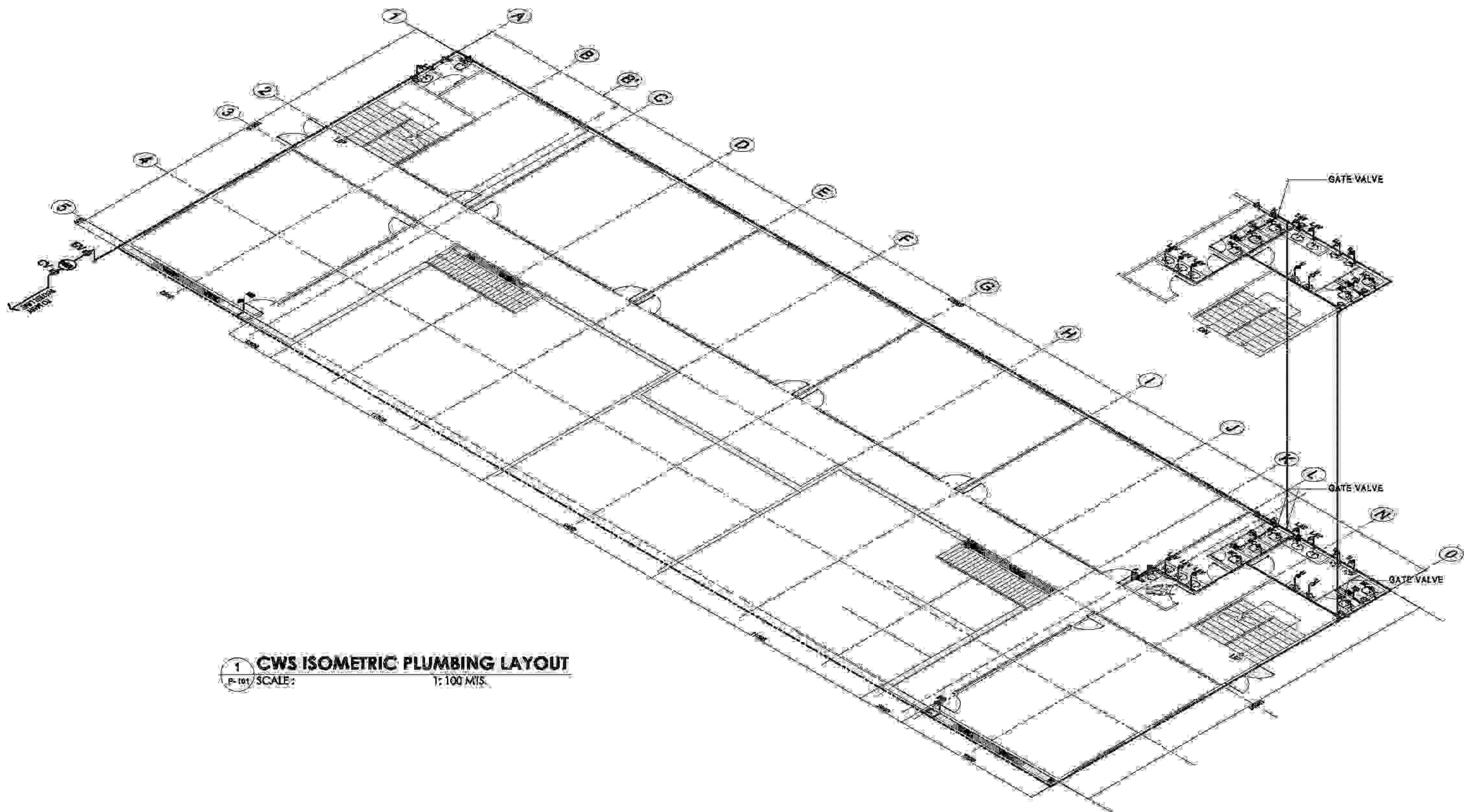


**JUNCTION BOX CONNECTION**

SCALE: N.T.S.







**1 CWS ISOMETRIC PLUMBING LAYOUT**  
 P-101 / SCALE: 1:100 M.M.S.



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 E-MAIL ADDRESS - [tanrevisa@yahoo.com](mailto:tanrevisa@yahoo.com)

PREPARED BY:	PRC:
DATE:	REV:
REASON:	
BY:	

PROJECT TITLE:	PROPOSED 2-TWO STOREY BIODIVERSITY CONSERVATION AND DEVELOPMENT CENTER
LOCATION:	AKLAN STATE UNIVERSITY, BANGALAKLAN

OWNER:	AKLAN STATE UNIVERSITY
LOCATION:	AKLAN STATE UNIVERSITY, BANGALAKLAN

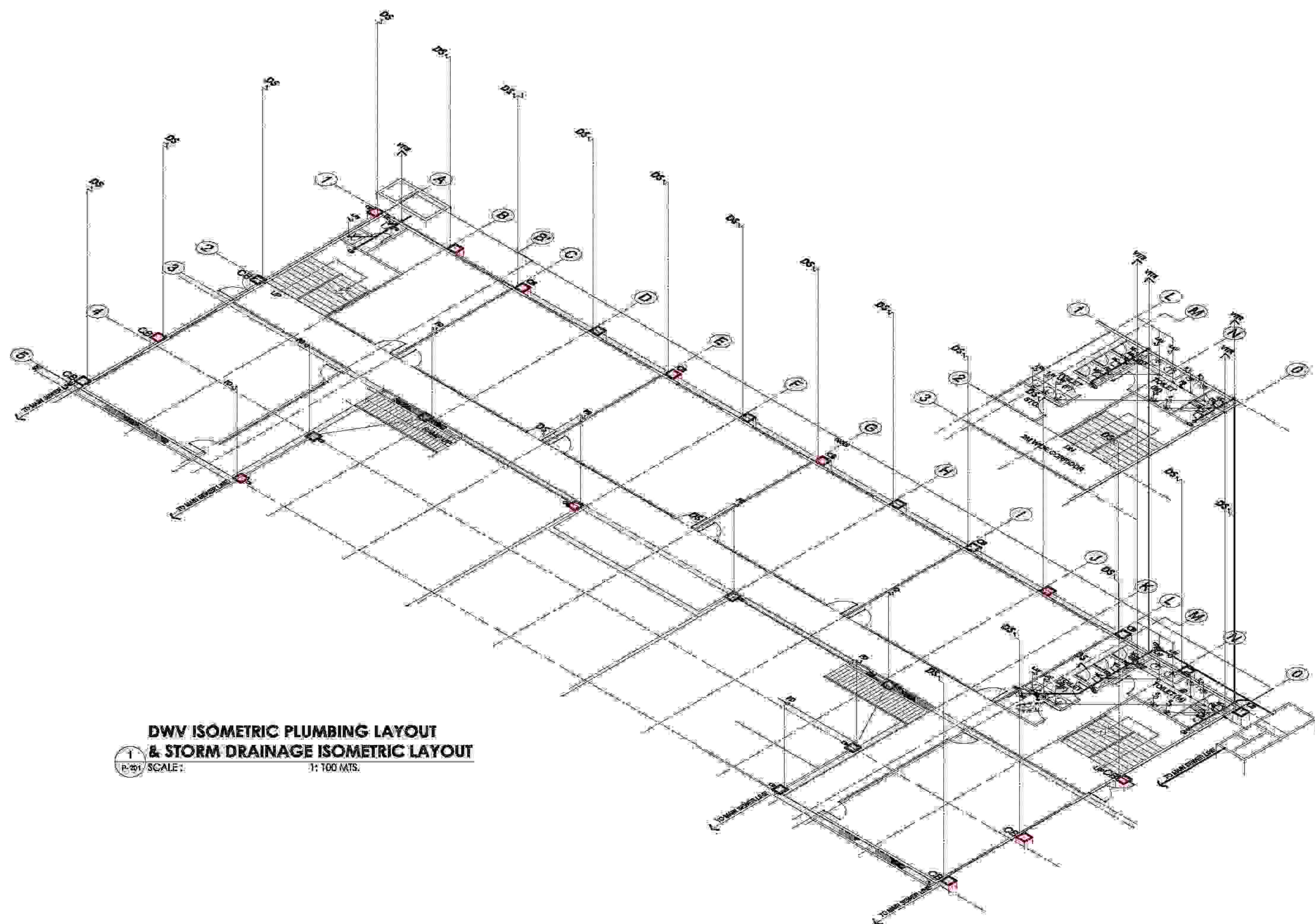
RECOMMENDING APPROVAL:	DR. ANNA MAE C. REUNGO
APPROVED:	DR. DANILO E. ABAYON
	VICE PRESIDENT ADMINISTRATION
	SAC PRESIDENT

RECOMMENDING APPROVAL:	DR. ANNA MAE C. REUNGO
APPROVED:	DR. DANILO E. ABAYON
	VICE PRESIDENT ADMINISTRATION
	SAC PRESIDENT


SHEET CONTENTS:	1. CWS ISOMETRIC PLUMBING LAYOUT
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SHEET NO.:	P-101
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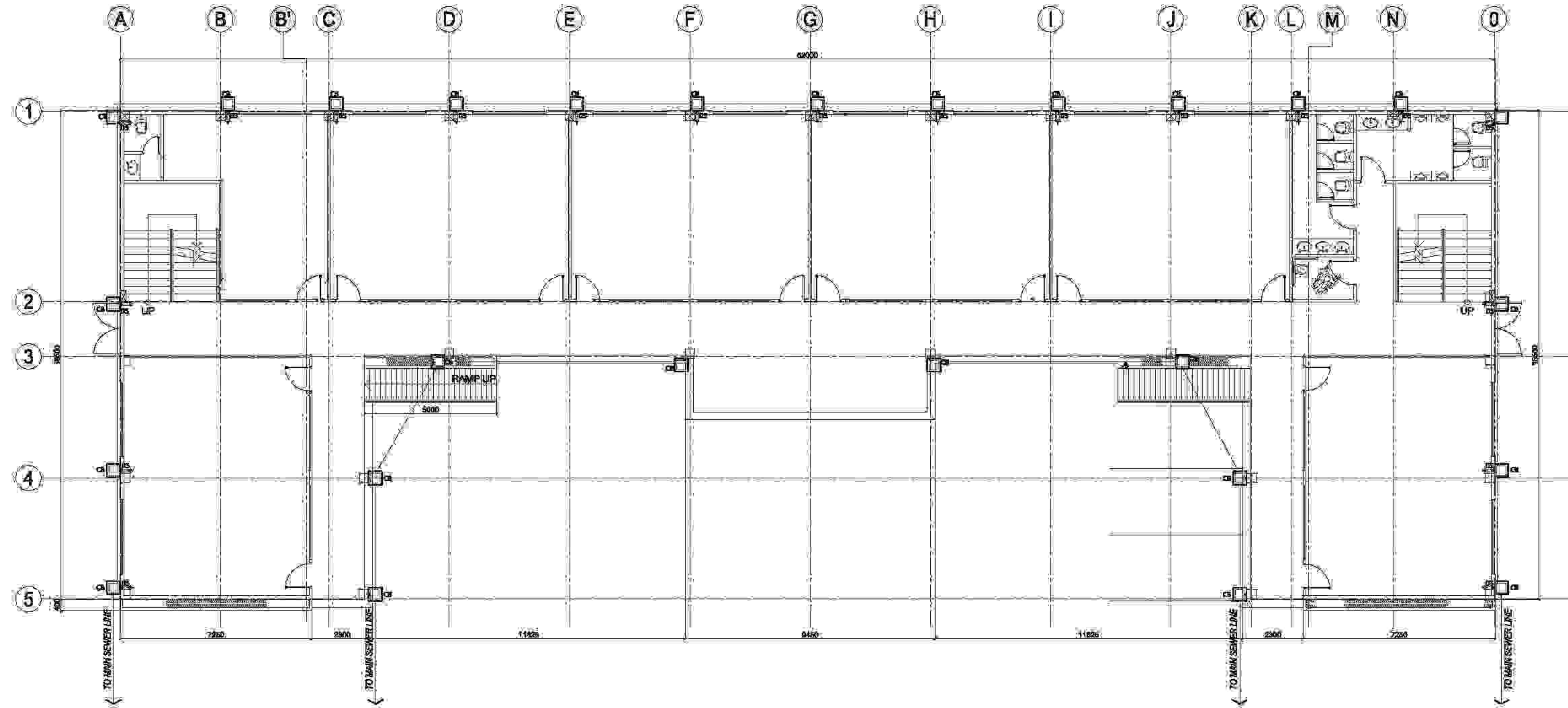




**DWV ISOMETRIC PLUMBING LAYOUT  
& STORM DRAINAGE ISOMETRIC LAYOUT**  
 1  
 P-201 SCALE: 1:100 MTS.

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	PROJECT NO.: JBT&M&E/12/10	LOCATION: AKLAN STATE UNIVERSITY, BANGALAKLAN	LOCATION: AKLAN STATE UNIVERSITY, BANGALAKLAN	VICE PRESIDENT ADMINISTRATION	SAC PRESIDENT			

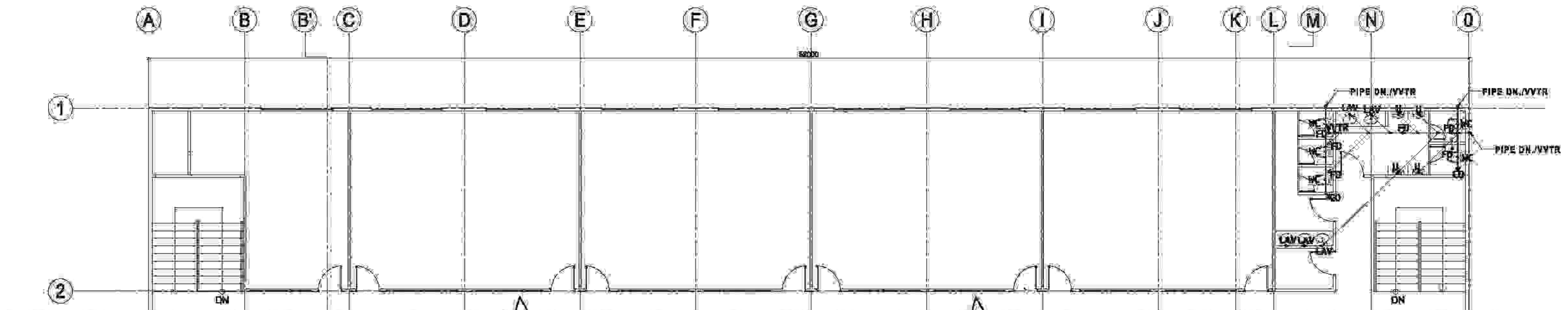




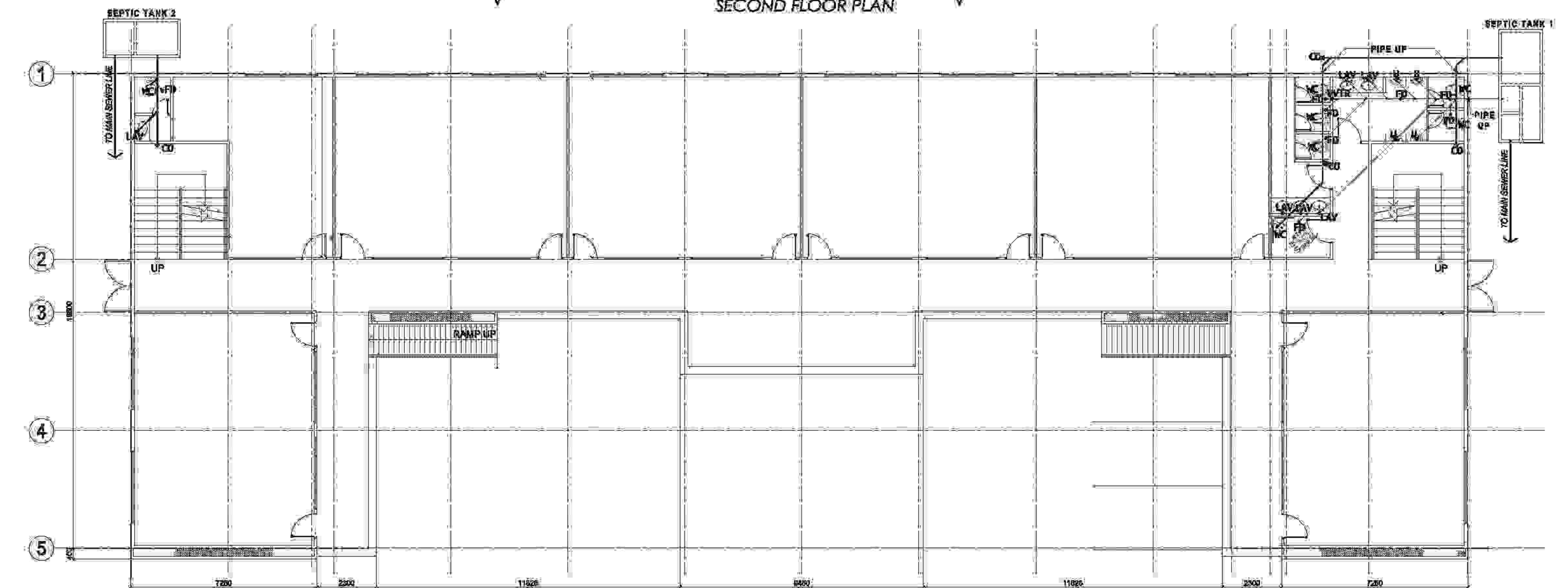
**1 STORM DRAINAGE LAYOUT**  
 SCALE: 1:100 MTS.

 <b>TAMAYO   REVISA Architects</b> LEYSON BLDG., ROXAS AVE. & CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES MOBILE NO. - 0920 7968 871 / (038) 288-4910 E-MAIL ADDRESS - <a href="mailto:tanrevisa@yahoo.com">tanrevisa@yahoo.com</a>	PREPARED BY:  MASTER PLUMBER	PRC: PER: DATE: REASON: BY:	PROJECT TITLE:  <b>PROPOSED 2-TWO STOREY BIODIVERSITY          CONSERVATION AND DEVELOPMENT CENTER</b>	OWNER:  <b>AKLAN STATE UNIVERSITY</b>	RECOMMENDING APPROVAL:  <b>DR. ANNA MAE C. REUNGO</b>	APPROVED:  <b>DR. DANILO E. ABAYON</b>	SHEET CONTENT:  STORM DRAINAGE LAYOUT	SHEET NO.  <b>P-301</b>
			LOCATION: AKLAN STATE UNIVERSITY, BANGALAKLAN	LOCATION: AKLAN STATE UNIVERSITY, BANGALAKLAN	VICE PRESIDENT ADMINISTRATION	SAC PRESIDENT		






SECOND FLOOR PLAN

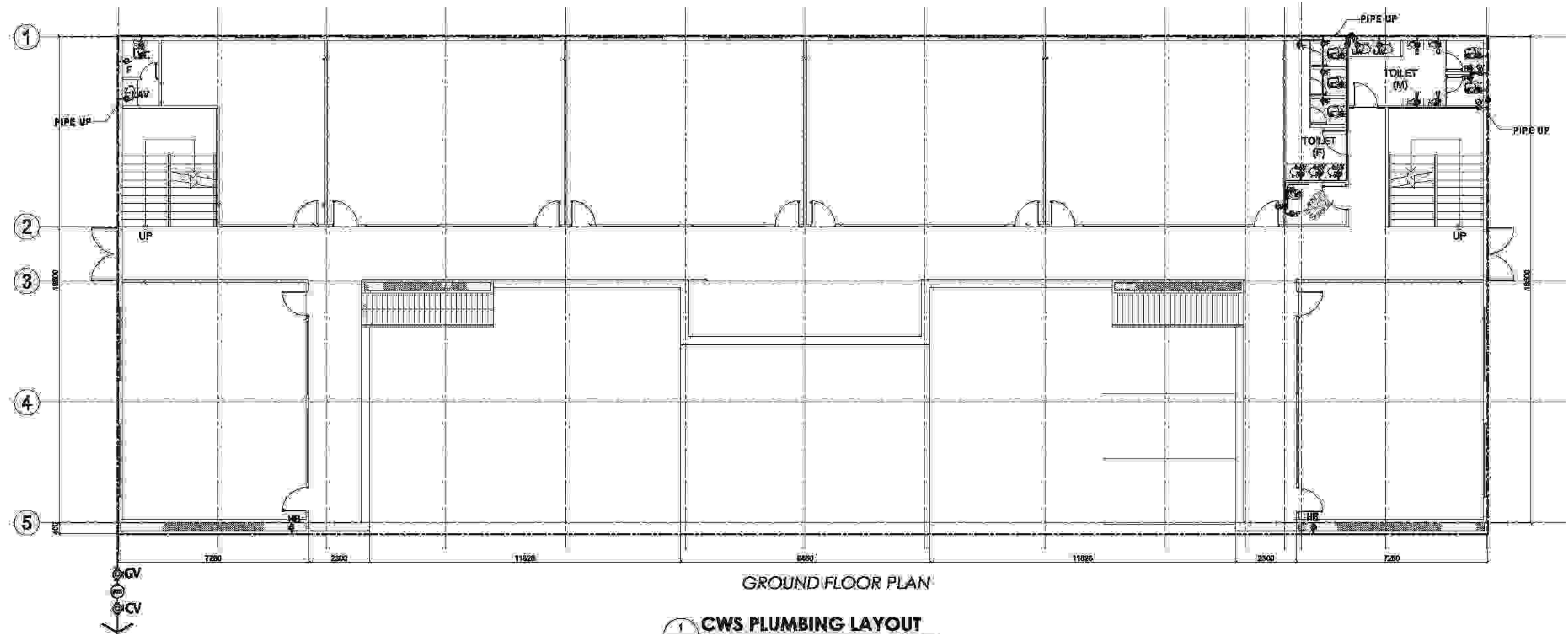
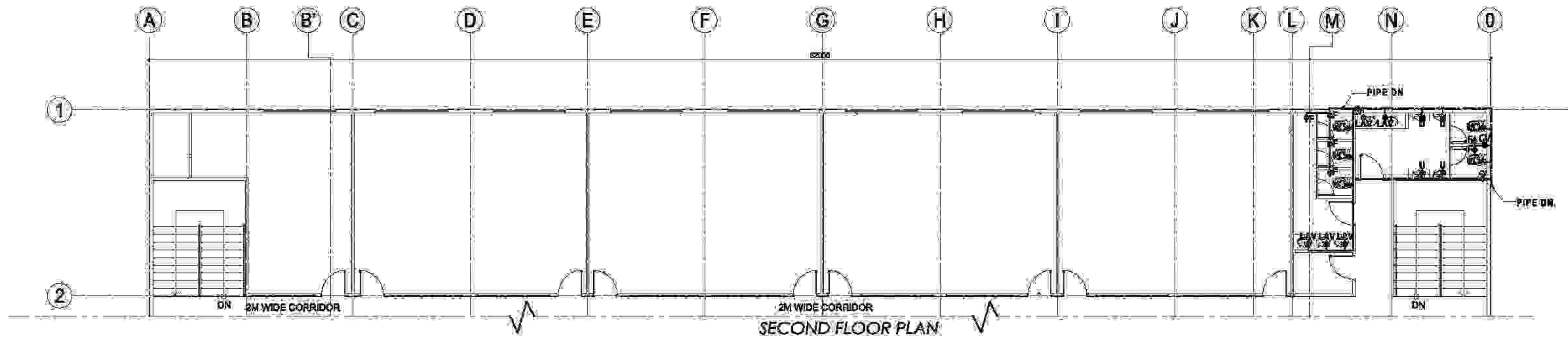


GROUND FLOOR PLAN

**1 DWV PLUMBING LAYOUT**  
 P-401 SCALE: 1:100 MTS.

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	PROJECT NO.:	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	RECOMMENDING APPROVAL: VICE PRESIDENT ADMINISTRATION	APPROVED: SAC PRESIDENT			

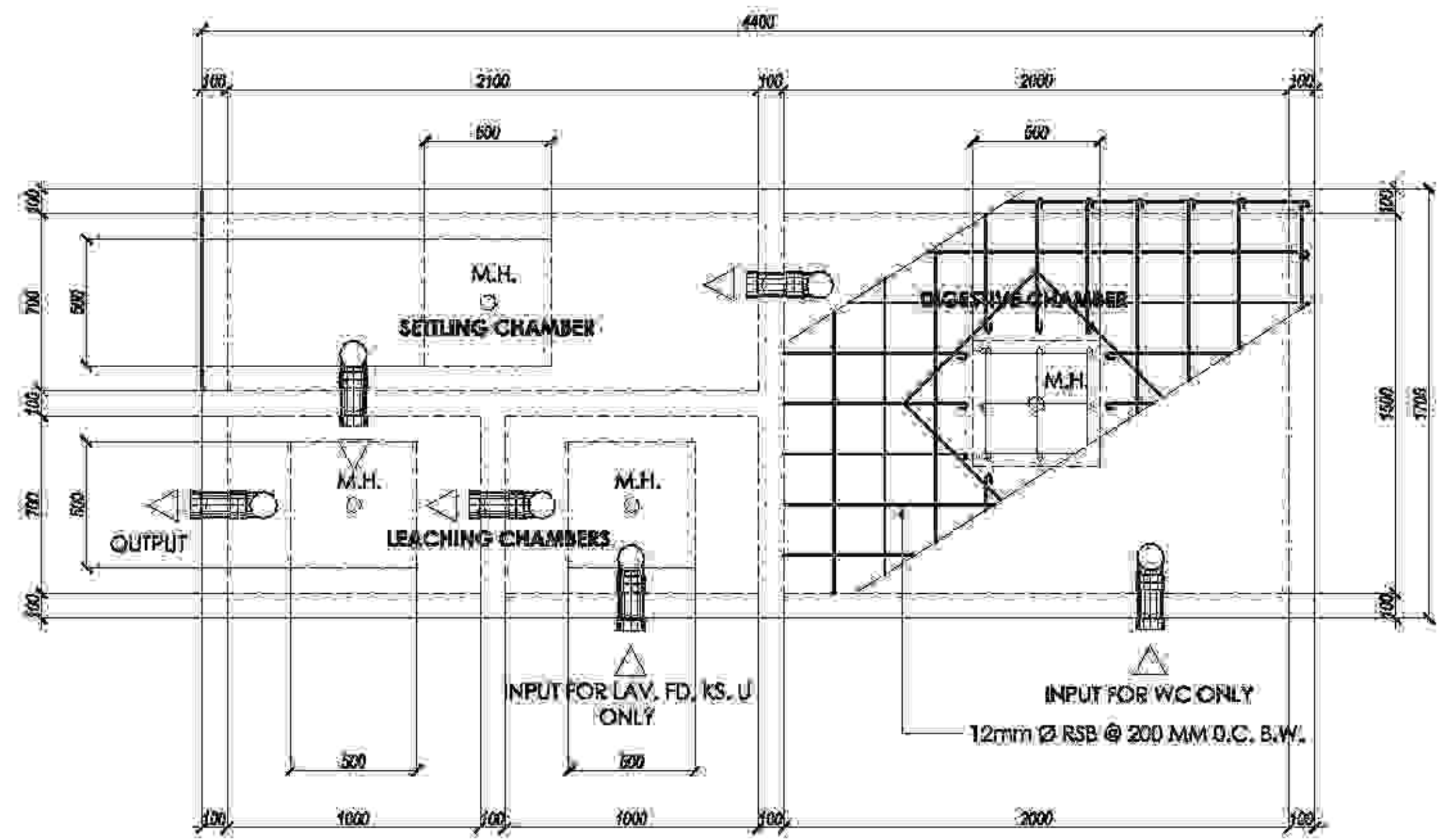




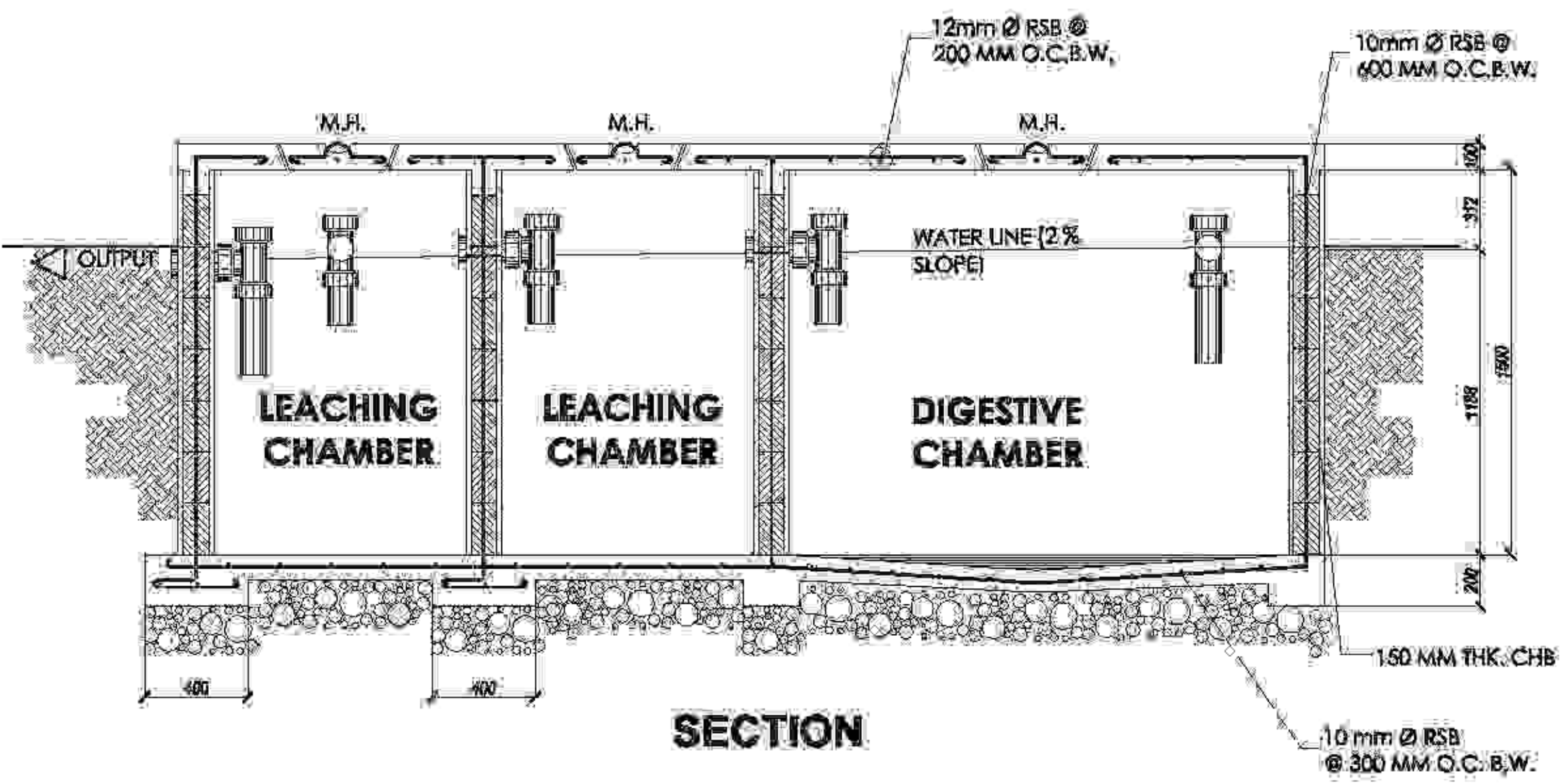
1 CWS PLUMBING LAYOUT  
 P-501 SCALE: 1:100 MTS.

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	MASTER PLUMBING	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	VICE PRESIDENT ADMINISTRATION	SMO PRESIDENT		



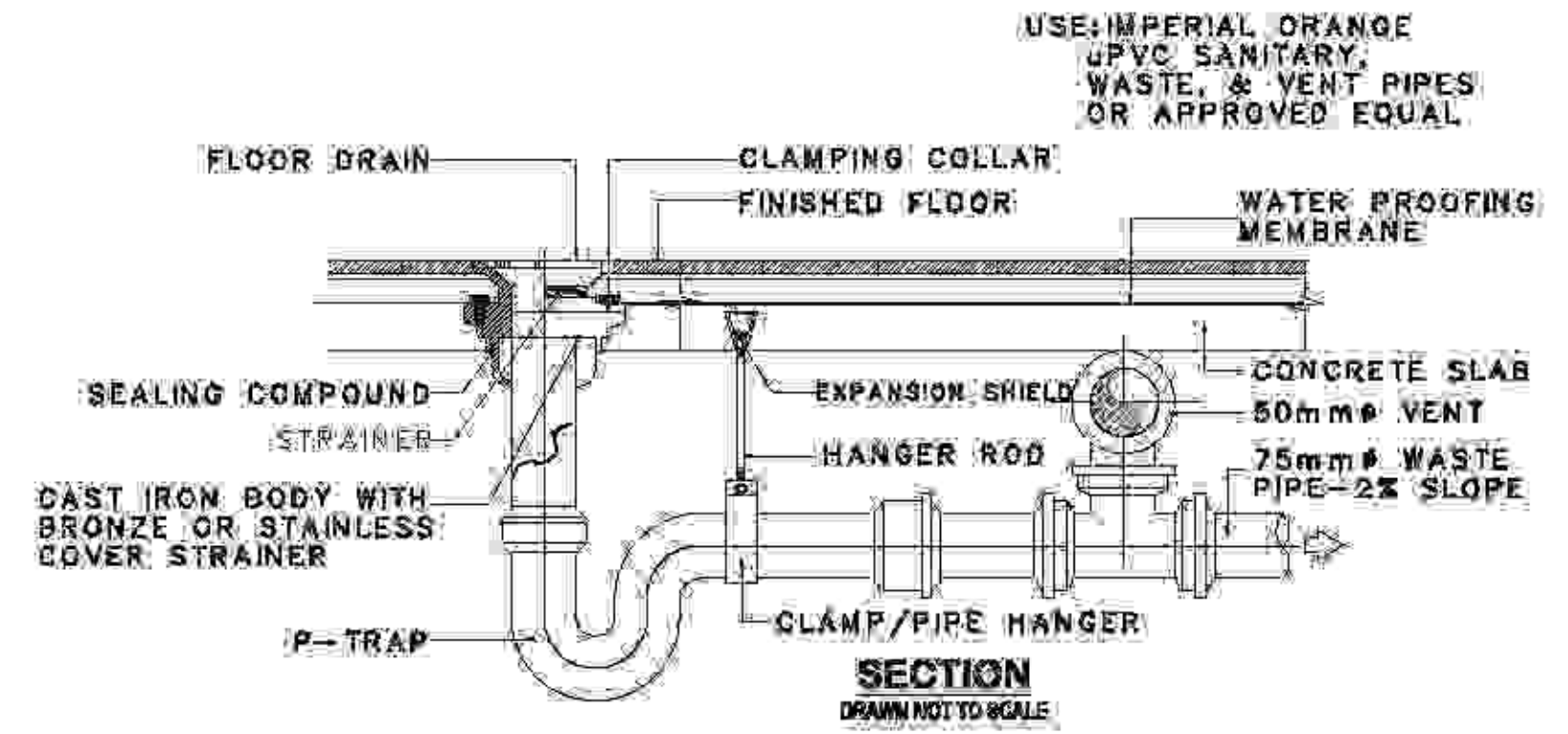


PLAN



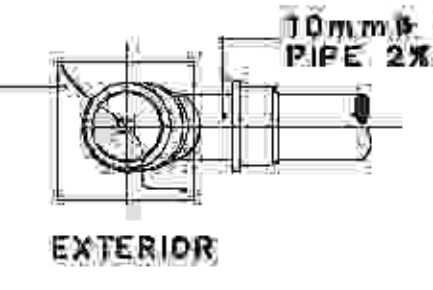
SECTION

1 SEPTIC TANK DETAIL 1  
SCALE: 1:20 MTS.

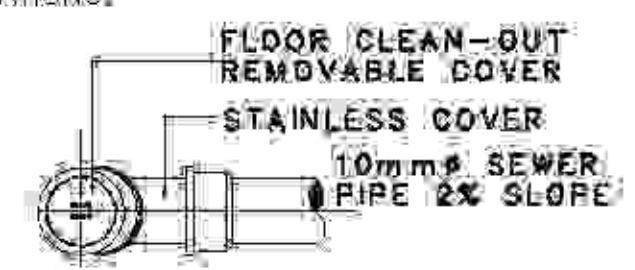


NOTES: - NO PIPE HANGER @ GROUND INSTALLATIONS.

STAINLESS COVER

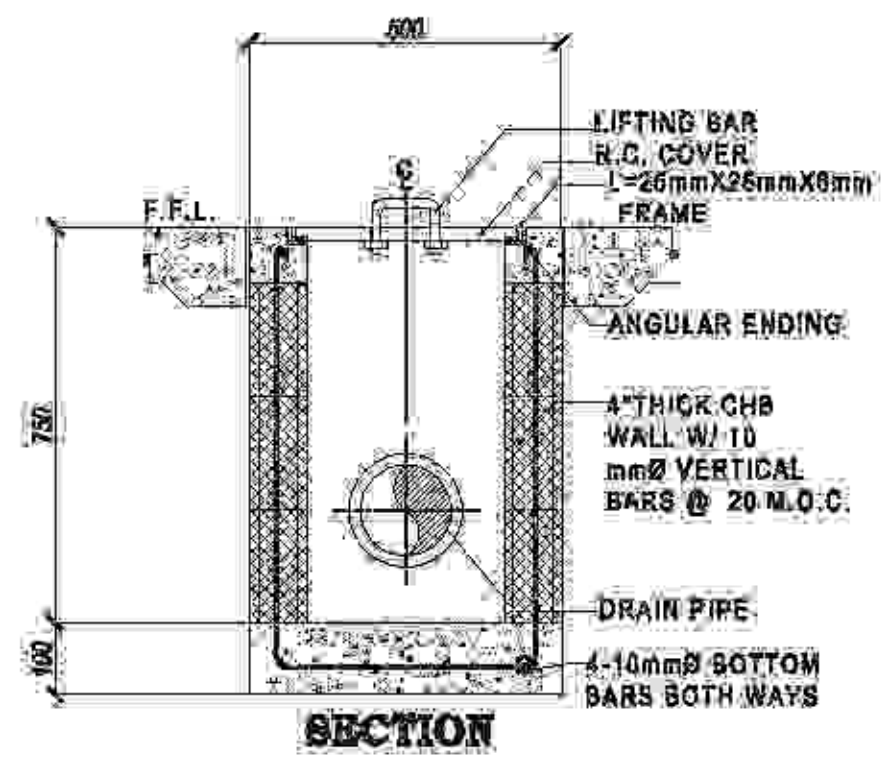


INTERIOR  
USE: IMPERIAL ORANGE  
UPVC SANITARY,  
WASTE, & VENT PIPES  
OR APPROVED EQUAL

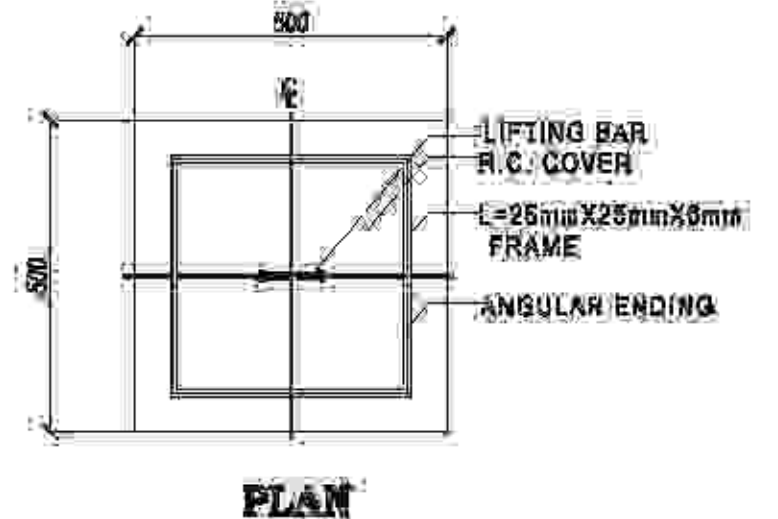


PLANS  
DRAWN NOT TO SCALE

2 FLOOR DRAIN PIPING LAYOUT  
SCALE: N.T.S.

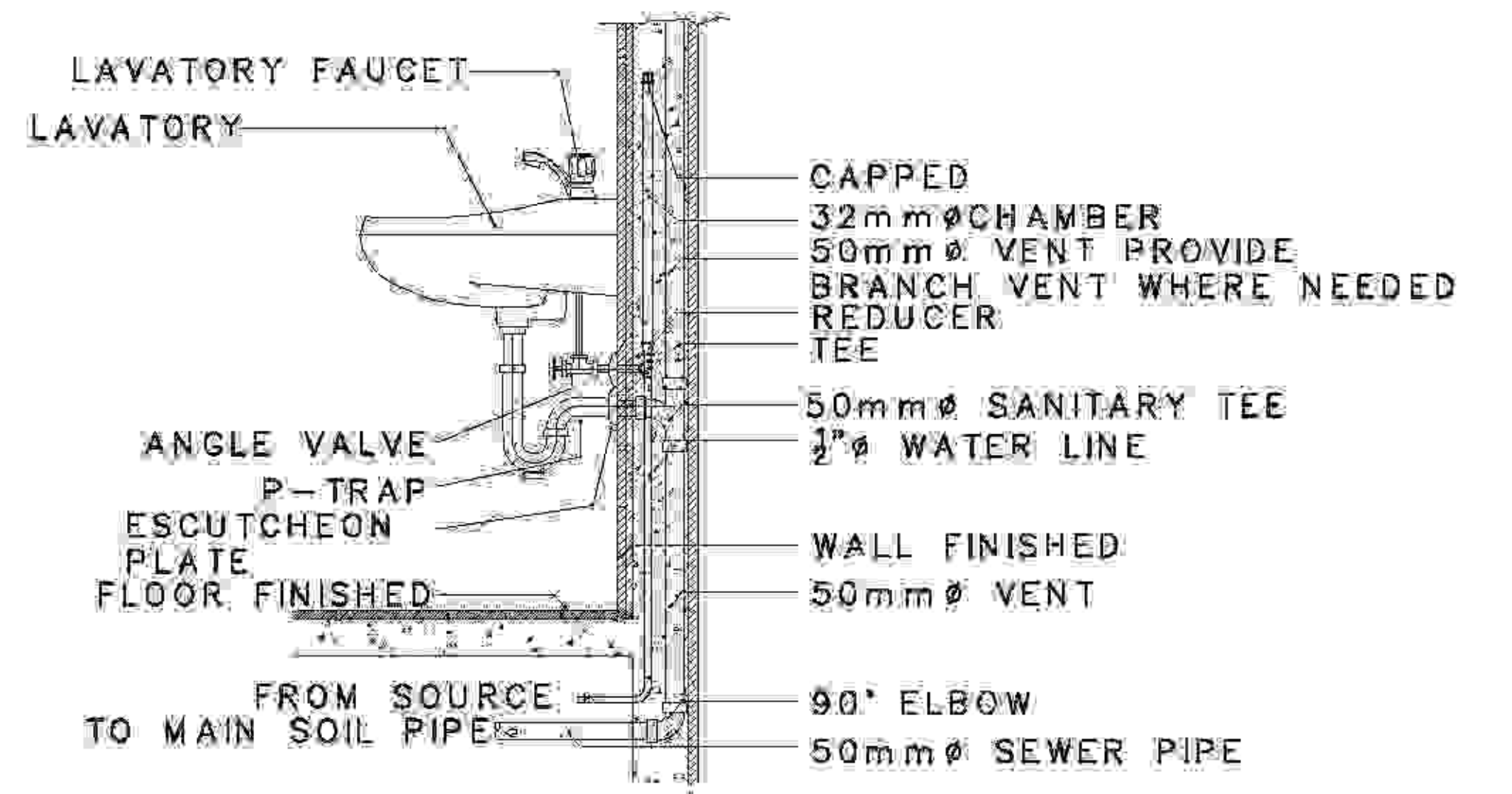


SECTION



PLAN

2 CATCH BASIN DETAIL  
SCALE: 1:25 MTS.



3 LAVATORY DETAIL  
SCALE: N.T.S.

DESIGN ANALYSIS

REFERENCES- REVISED NATIONAL PLUMBING CODE OF THE PHILS. 2000.

DRAIN FLOW (DFL) / WATER DEMAND (W/D)

WC	LAV	FD	SH	ST	KS	LOAD
4	1	3	1	1	1	DFL

CAPACITY OF SEPTIC TANK

TOTAL DFU = 28 = 1.03 M

MIN. DEPTH D = 1.50 M

LENGTH L = 0.95 M

WHERE W = L/2

DIMENSION OF SEPTIC TANK

DIGESTION CHAMBER  
USE MIN. L = 2.50 M, W = 1.30 M, D = 1.50 M

LEACHING CHAMBER  
L = 1.30 M, W = 1.00 M, D = 1.50 M

FROM TABLE / GRAPHS

MIN. DIA. HOR. (WASTE/SEWER) = 100 MM Ø

MIN. DIA. HOR. (BRANCH VENT) = 50 MM Ø

MIN. DIA. MAIN VENT = 50 MM Ø

MIN. SIZE OF BUILDING SEWER = 100 MM Ø

MIN. SIZE OF DOWNSPOUT = 12 PCS-50 MM Ø

CALCULATION OF DAILY WATER DEMAND

TOTAL DOMESTIC DEMAND = 400 G. P.I.

FIRE RESERVE = 335 G. P.I.

UNDERGROUND WATER TANK (ESTERB) = 1.94 CU. M.

CAP. OF EWT = 1/3 OF ESTERB = 0.647 CU. M.

USE 1-UNIT STAINLESS STEEL OF WATER TANK

COMPLETE DIMENSION OF TANK

VOLUME = 68 LITER = 0.681 CU. M.

ASSUME H = 1.50 M

V = 11.5 H

D = 0.76 M

SAY 0.80 ALLOWANCE FOR AIR SPACE

SIZING OF TRANSFER PUMP

DATA:

Q.P. SHT = 180 US GALS.

FILLING TIME = 15 MIN.

Q = 12 GPM

COMPUTED TOTAL DYNAMIC HEAD = 43 FT.

HORSE POWER REQUIREMENT

HP = 0.32

USE 1-3/4 HP WATER PUMP

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	<p>DATE:</p>	<p>DATE:</p>	<p>PROPOSED 2-TWO STOREY BIODIVERSITY CONSERVATION AND DEVELOPMENT CENTER</p>	<p>AKLAN STATE UNIVERSITY</p>	<p>DR. ANNA MAE C. REUNGO</p>	<p>DR. DANILLO E. ABAYON</p>	<p>NO. OF SHEETS:</p>	<p>SHEET NO.:</p>	<p>1</p>
<p>PROJECT NO.:</p>	<p>MASTER PLAN:</p>	<p>REV:</p>	<p>LOCATION:</p>	<p>AKLAN STATE UNIVERSITY, BANGAL, AKLAN</p>	<p>NO. OF SHEETS:</p>	<p>SHEET NO.:</p>	<p>NO. OF SHEETS:</p>	<p>SHEET NO.:</p>	<p>NO. OF SHEETS:</p>



# GENERAL NOTES:

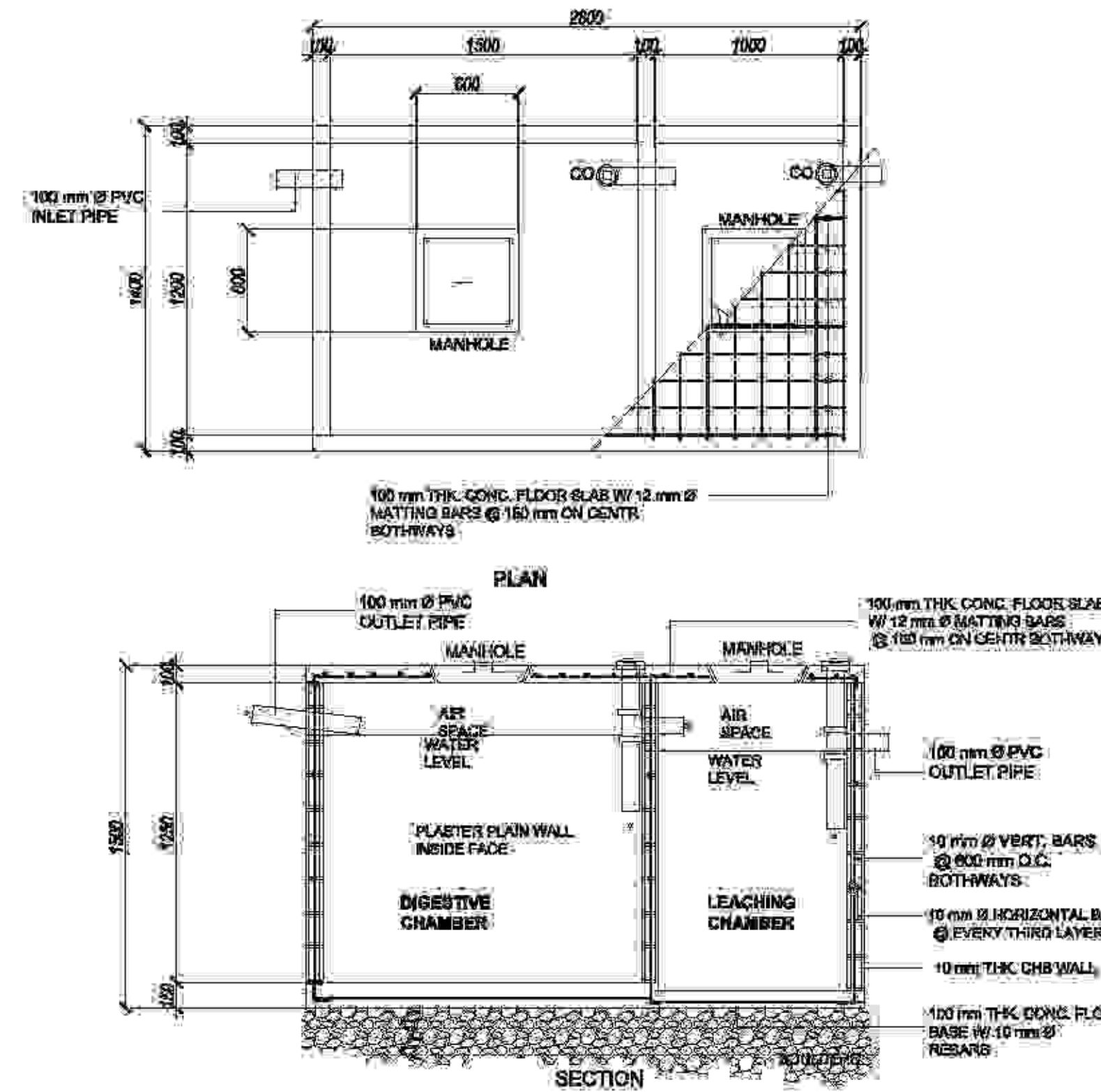
ALL WORKS SHALL BE DONE IN ACCORDANCE WITH THE ORDINANCES, AND OTHER APPLICABLE LAWS IN THE COMMUNITY.

ALL SLOPES FOR THE HORIZONTAL SANITARY SYSTEM SHALL BE MAINTAINED AT A MINIMUM OF 2%.

USE uPVC SANITARY PIPES SCHED. 40 FOR THE SANITARY SYSTEM WITH THE APPROVED ACCESSORIES AND FITTINGS.

USE G.I. PIPES SCHED. 40 FOR THE WATER SYSTEM WITH THE APPROVED ACCESSORIES AND FITTINGS.

ALL PIPES SHALL BE EMBEDDED IN CONCRETE SLABS AND/OR WALLS, OR BURIED NO LESS THAN 0.50M BELOW



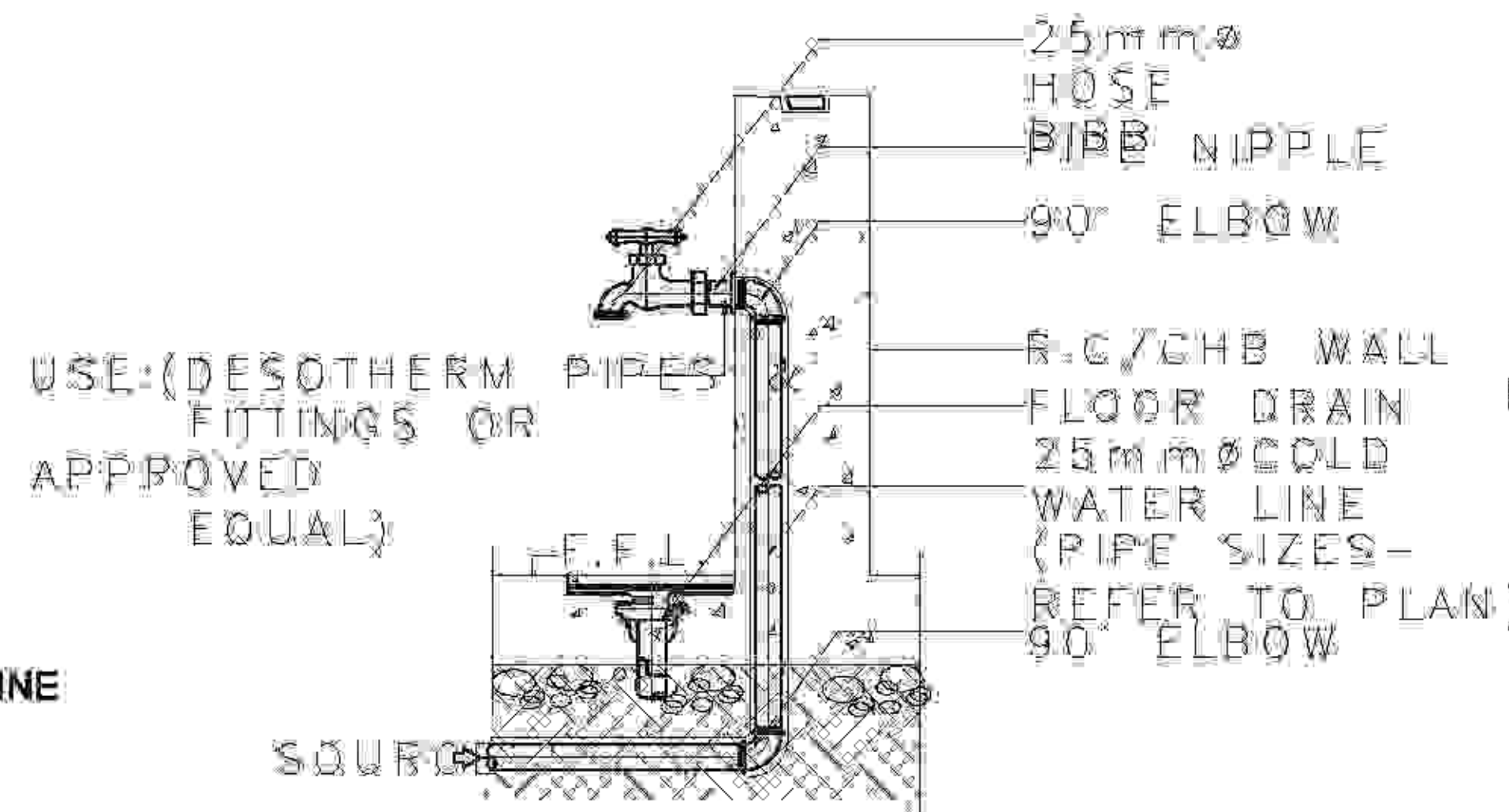
**3 SEPTIC TANK DETAIL 2**  
P-701 SCALE: N.T.S.

## LEGEND:

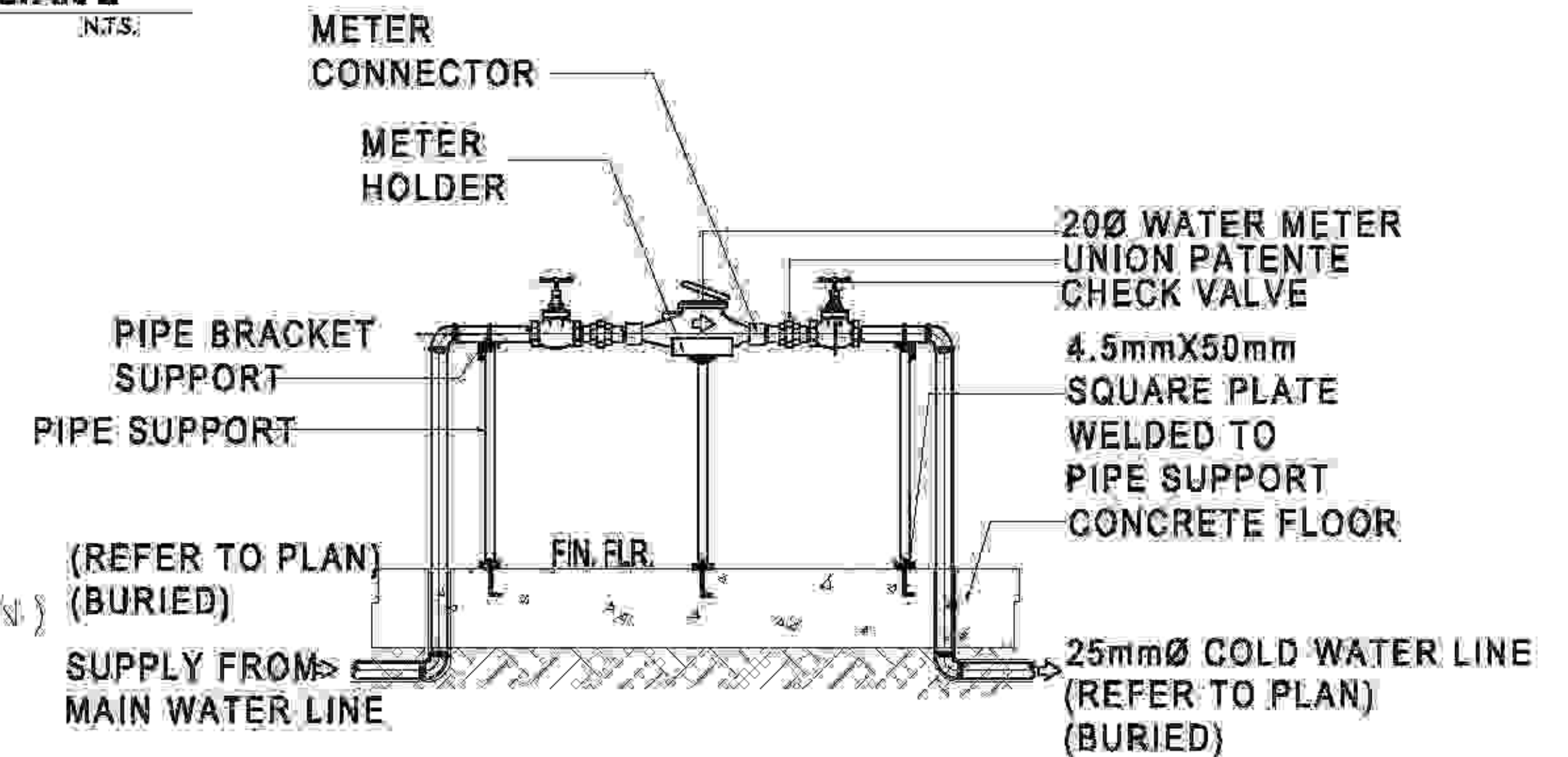
	WATER LINE
	SEWER & DRAINAGE LINE
FD	FLOOR DRAIN
CO	CLEAN OUT
F	FAUCET
VTR	VENT THRU ROOF
LAV	LAVATORY
WC	WATER CLOSET
U	URINAL
ST	SEPTIC TANK
LC	LEACHING CHAMBER
SC	SETTLING CHAMBER
DC	DIGESTIVE CHAMBER
WM	WATER METER
HB	HOSE BIB
GV	GATE VALVE
WM	WATER METER
DS	DOWN SPOUT
CB	CATCH BASIN

## NOTE FOR SIZES OF PIPES:

- 50 MM Ø PVC PIPE FROM FLOOR DRAIN
- 50 MM Ø PVC PIPE FROM LAVATORY
- 50 MM Ø PVC PIPE FROM KITCHEN SINK
- 75 MM PVC PIPE FROM DOWN SPOUT
- 100 MM Ø PVC PIPE FROM WATER CLOSET
- 100 MM PVC PIPE FROM SEPTIC TANK
- 16 MM Ø G.I. PIPE FROM WATER SOURCE LINE
- 12.5 MM Ø G.I. TO SUPPLY LINE



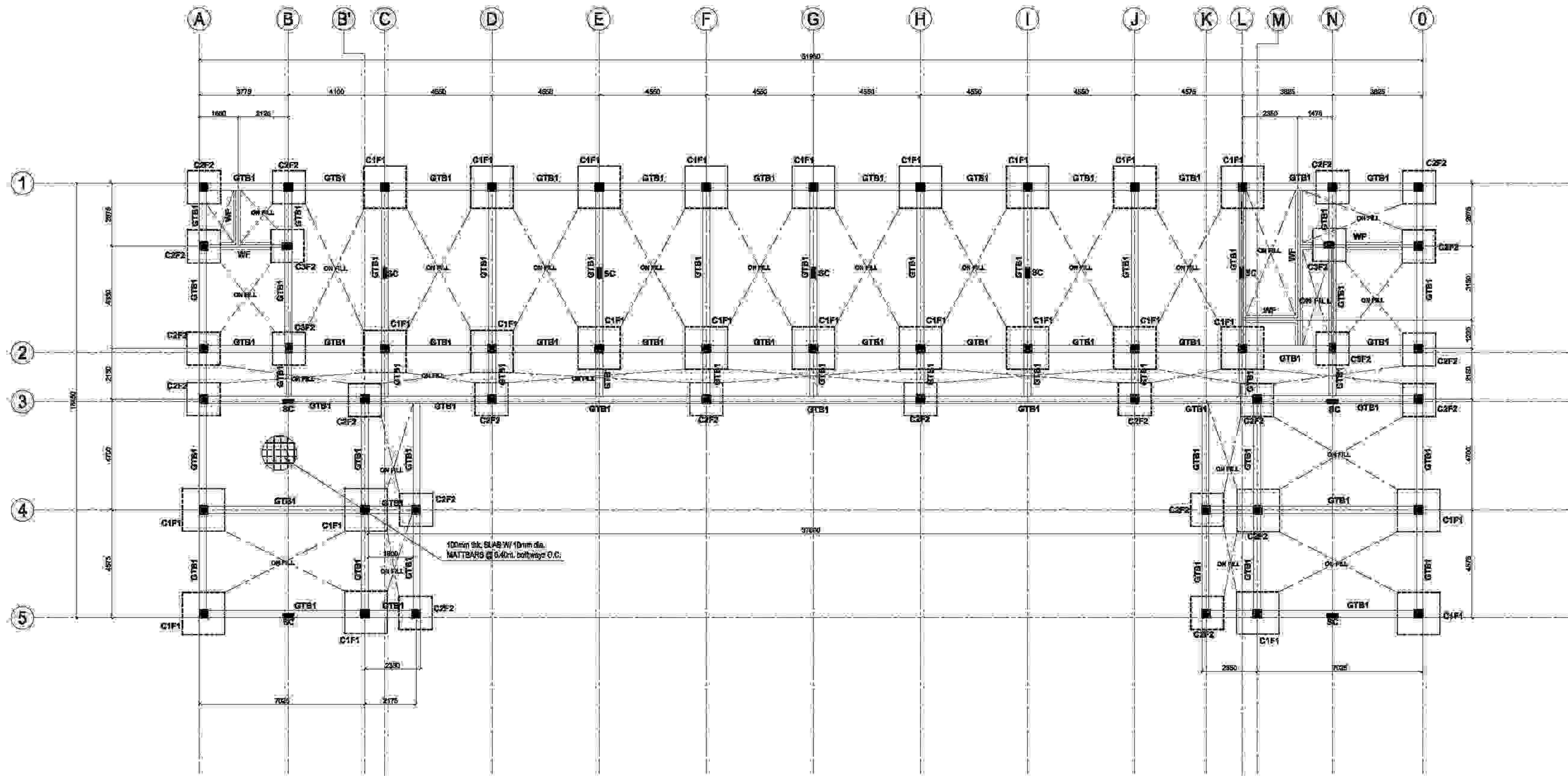
**1 HOSE BIB DETAIL**  
P-701 SCALE: N.T.S.




**2 WATER METER DETAIL**  
P-701 SCALE: N.T.S.

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	MASTER PLUMBING	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	VICE PRESIDENT ADMINISTRATION	SAC PRESIDENT		

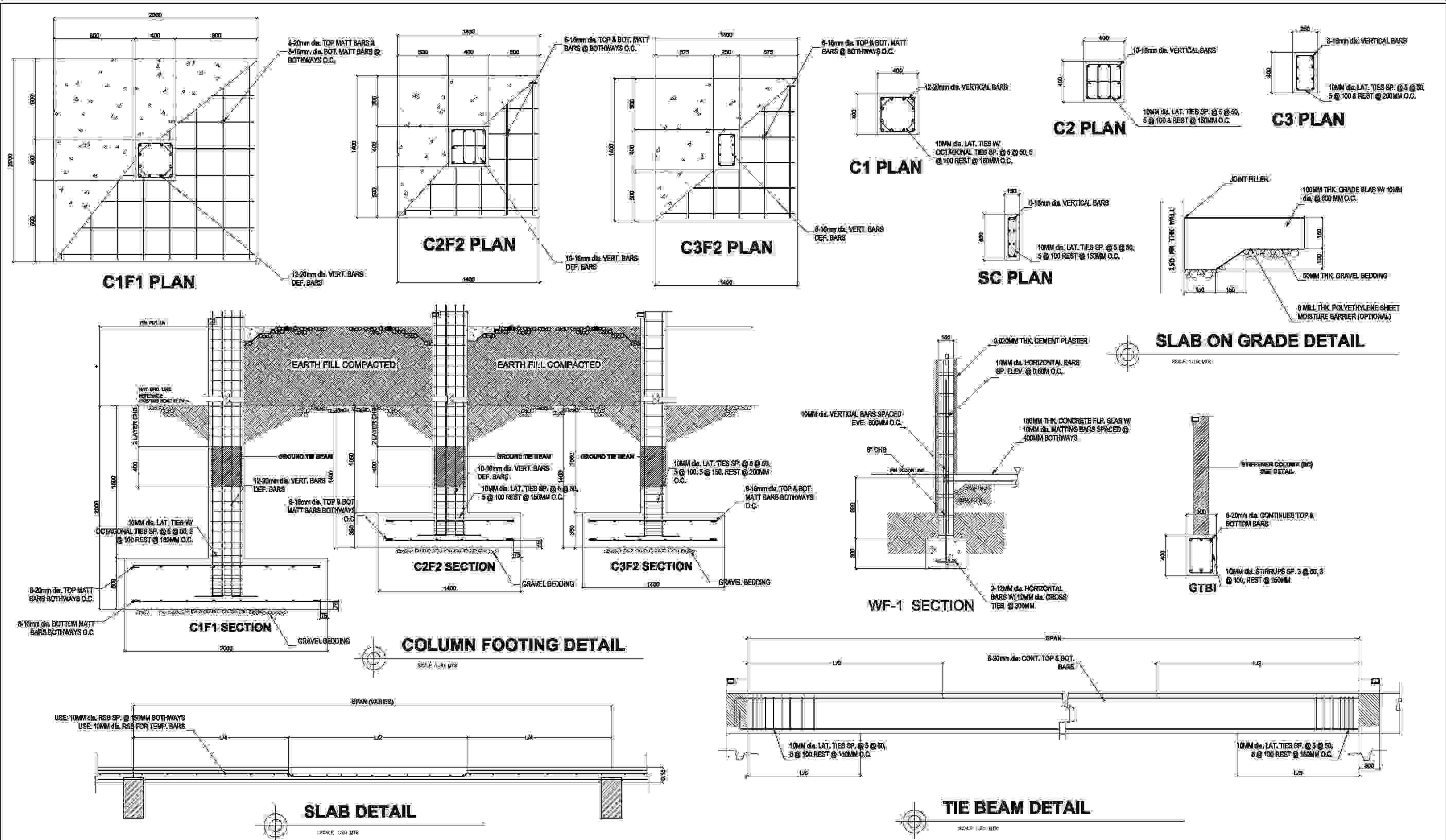




**1 FOUNDATION PLAN**  
 S-101 SCALE 1:100 MTR

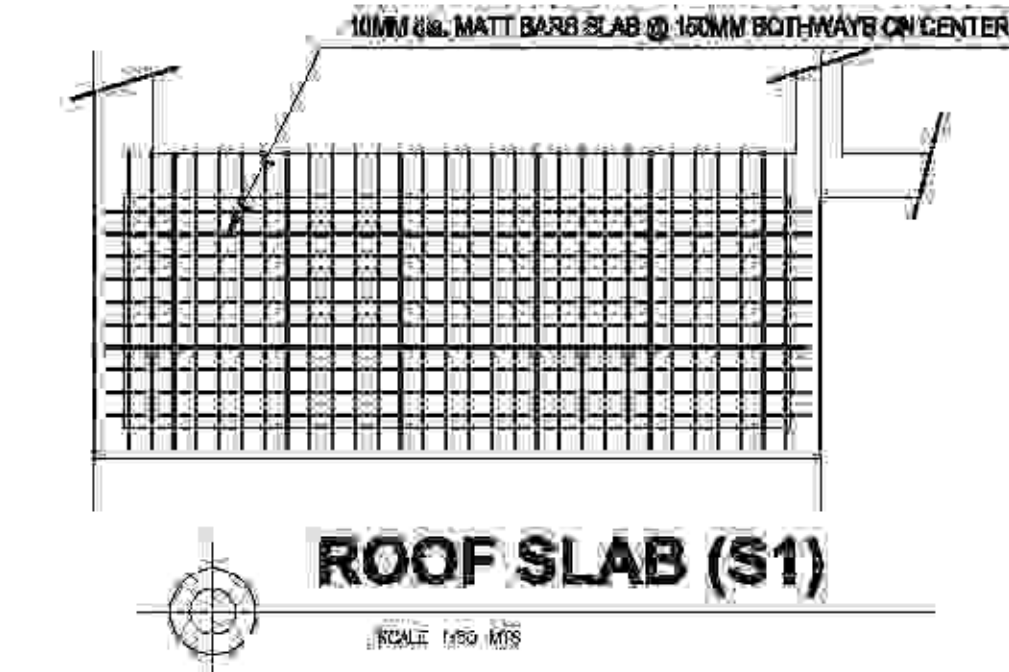
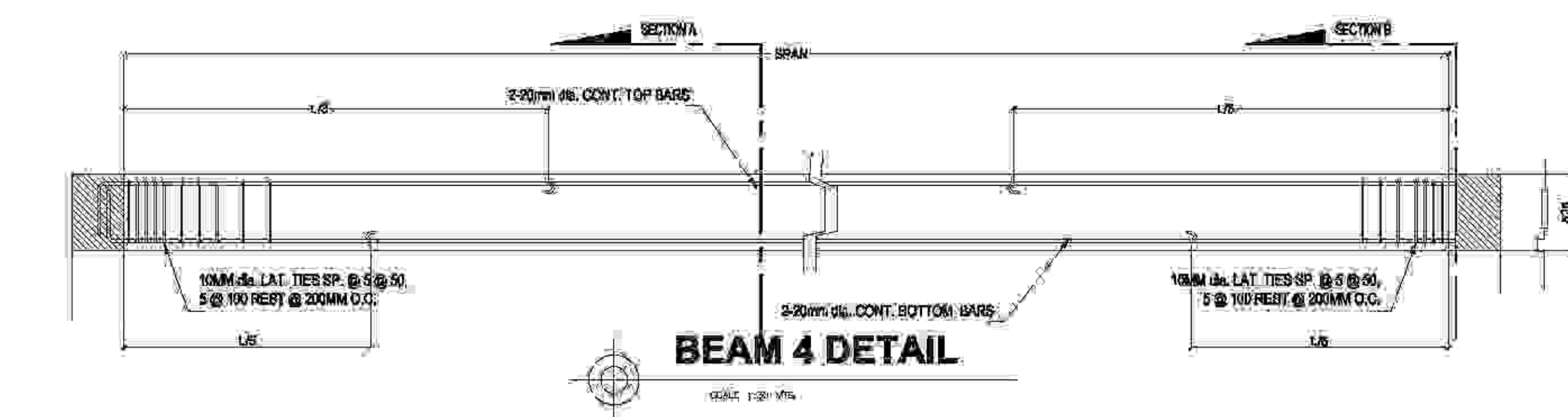
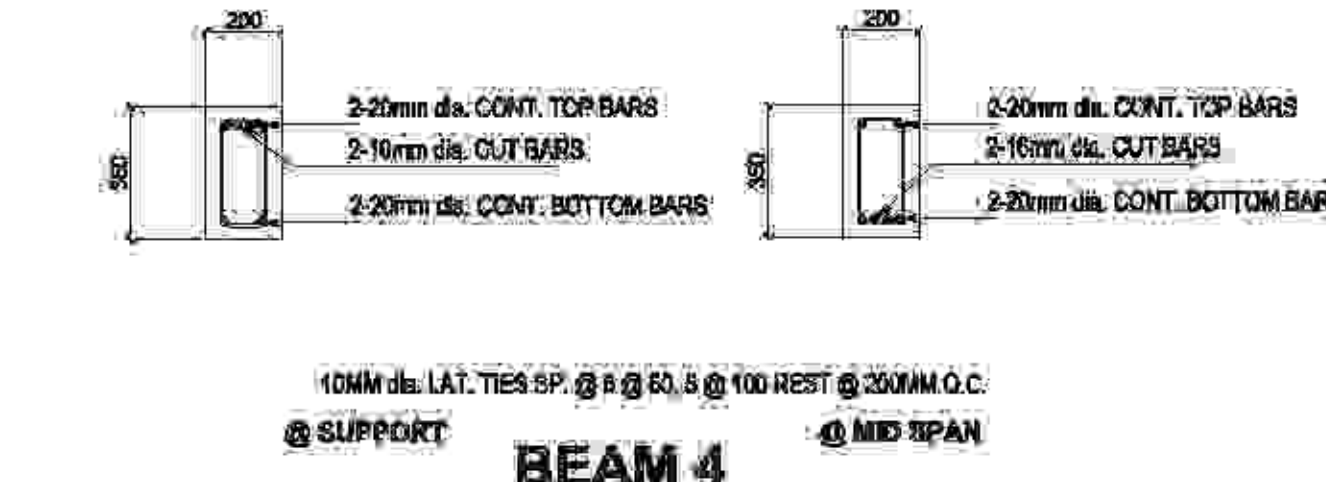
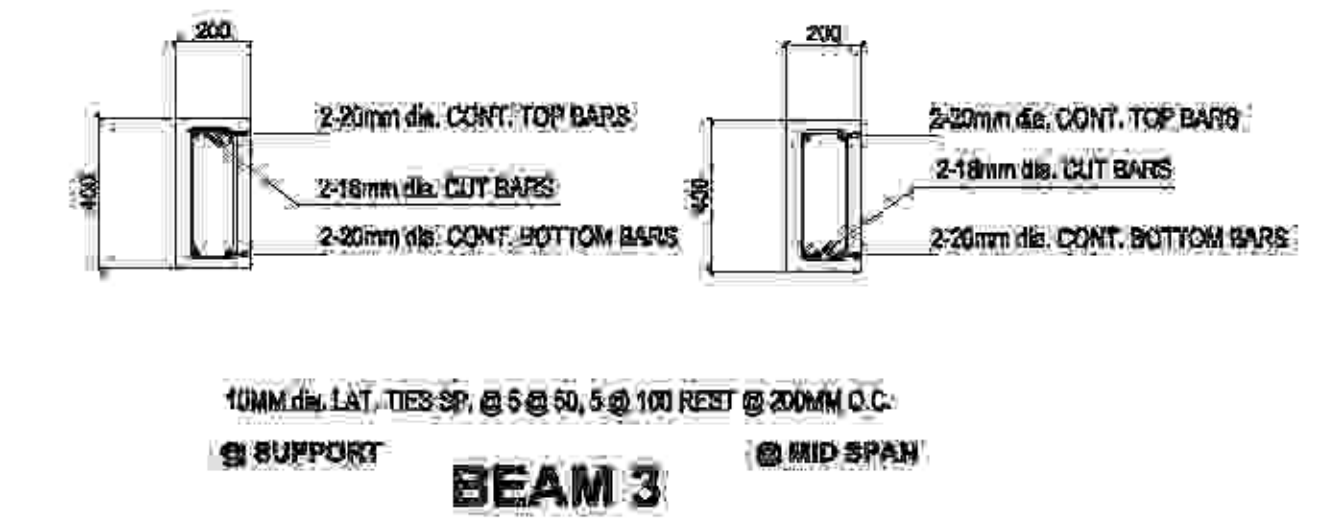
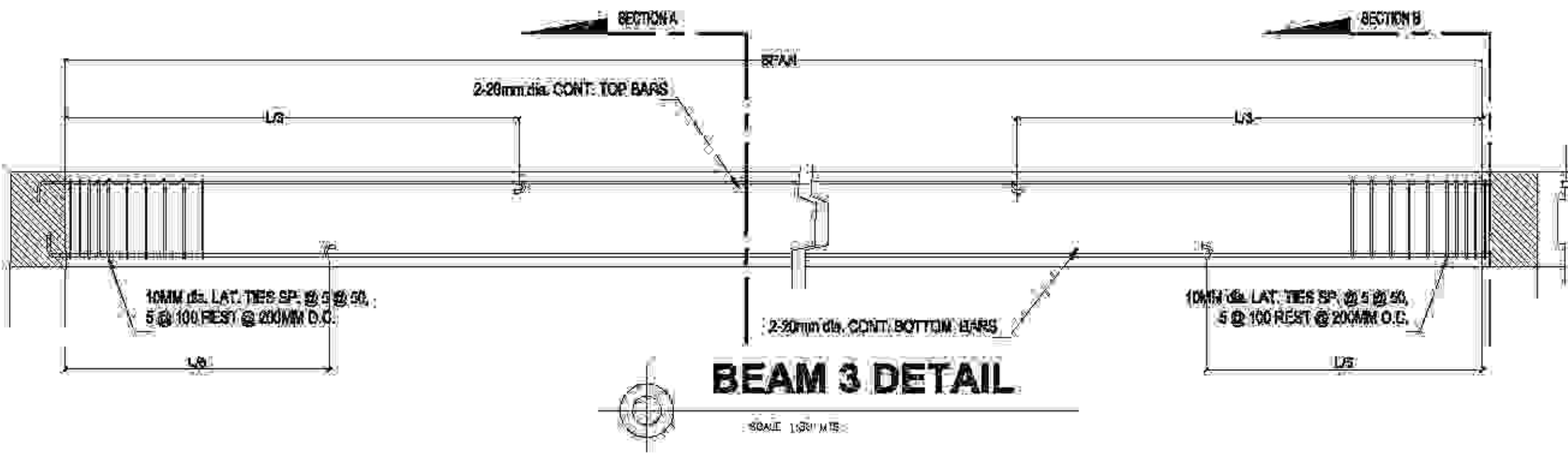
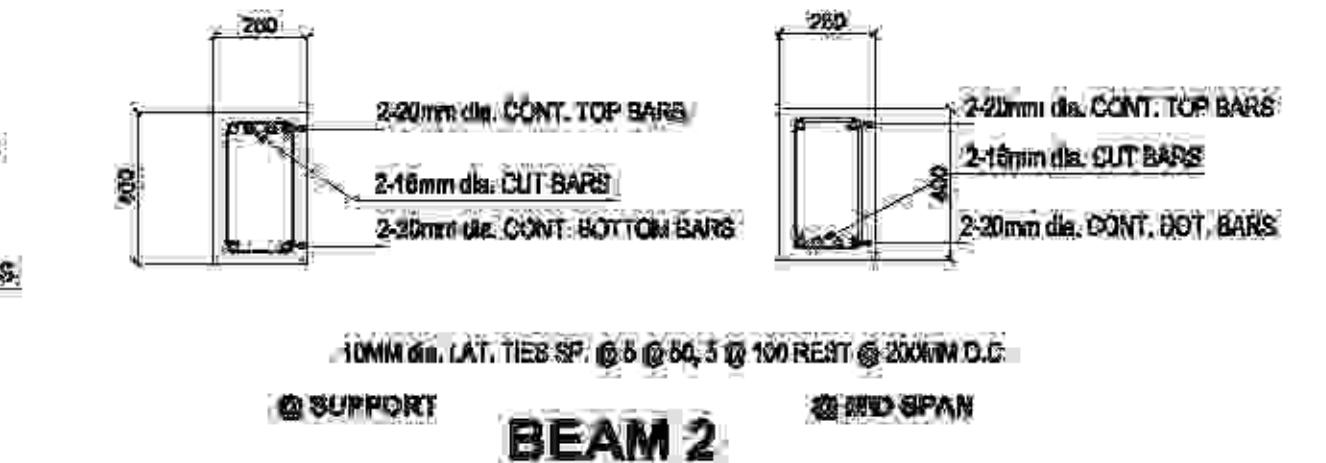
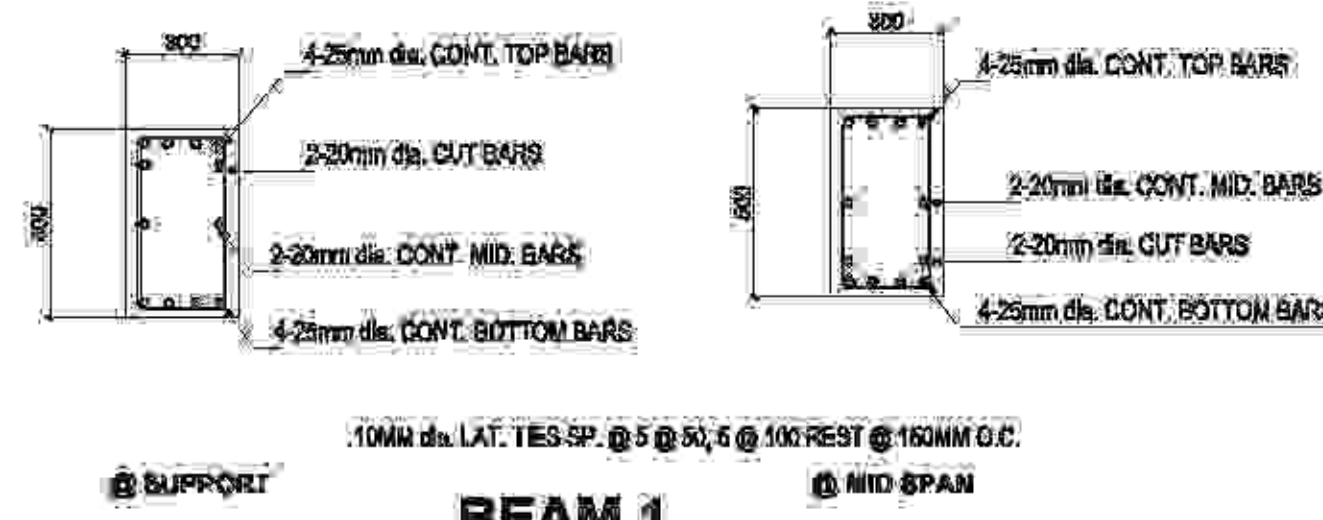
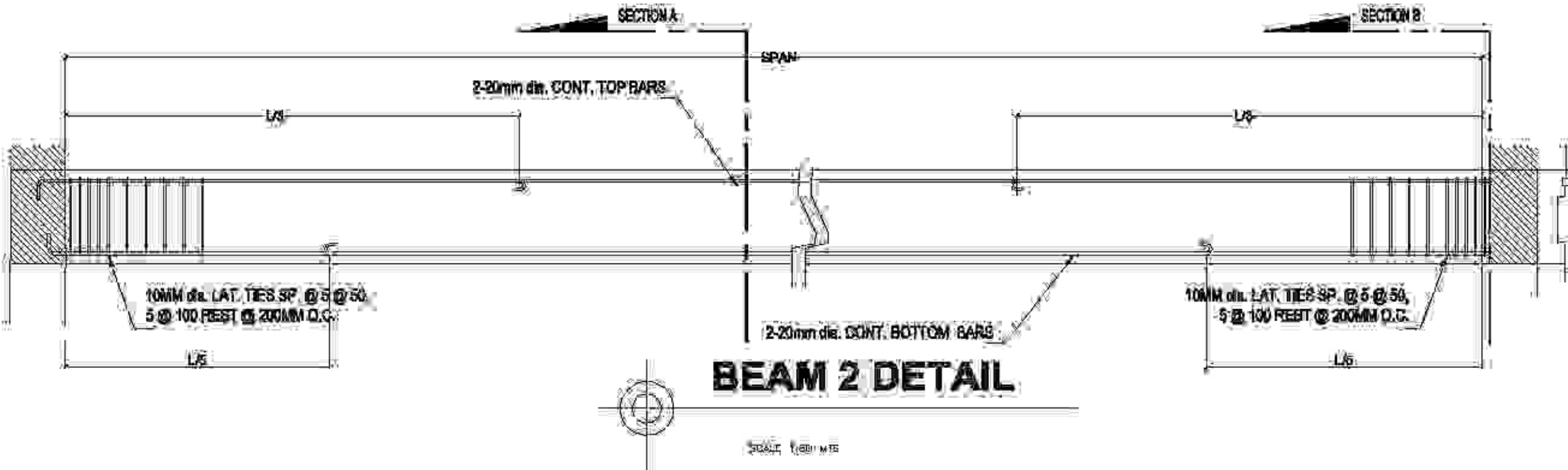
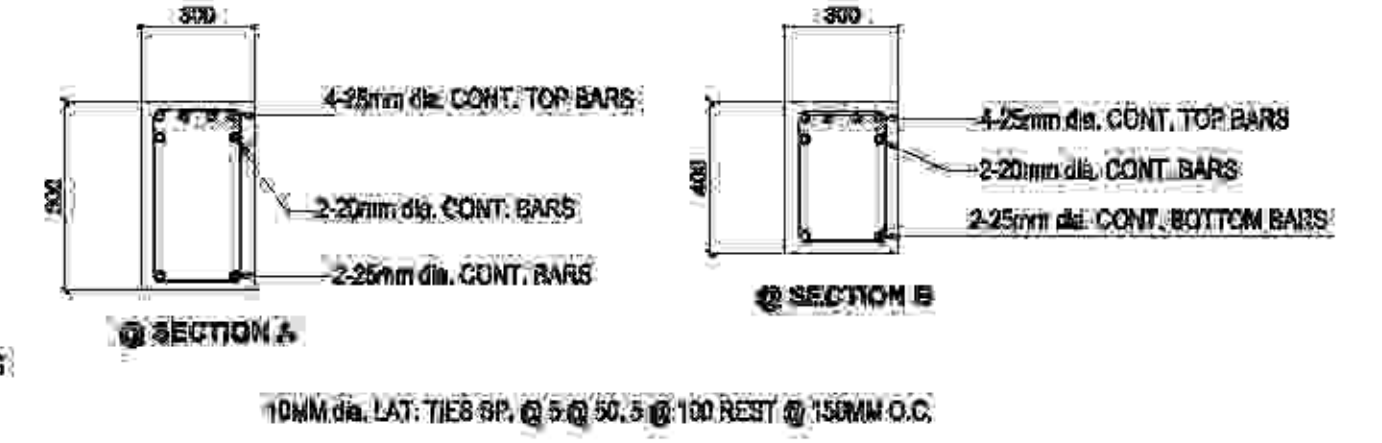
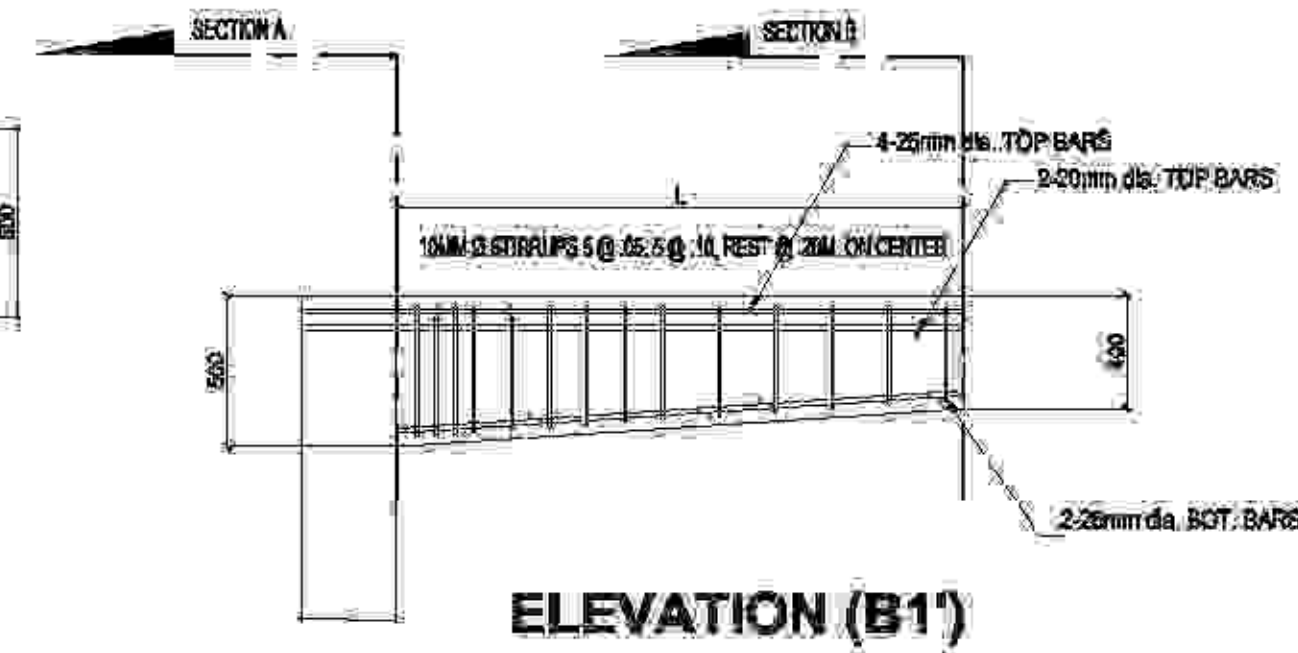
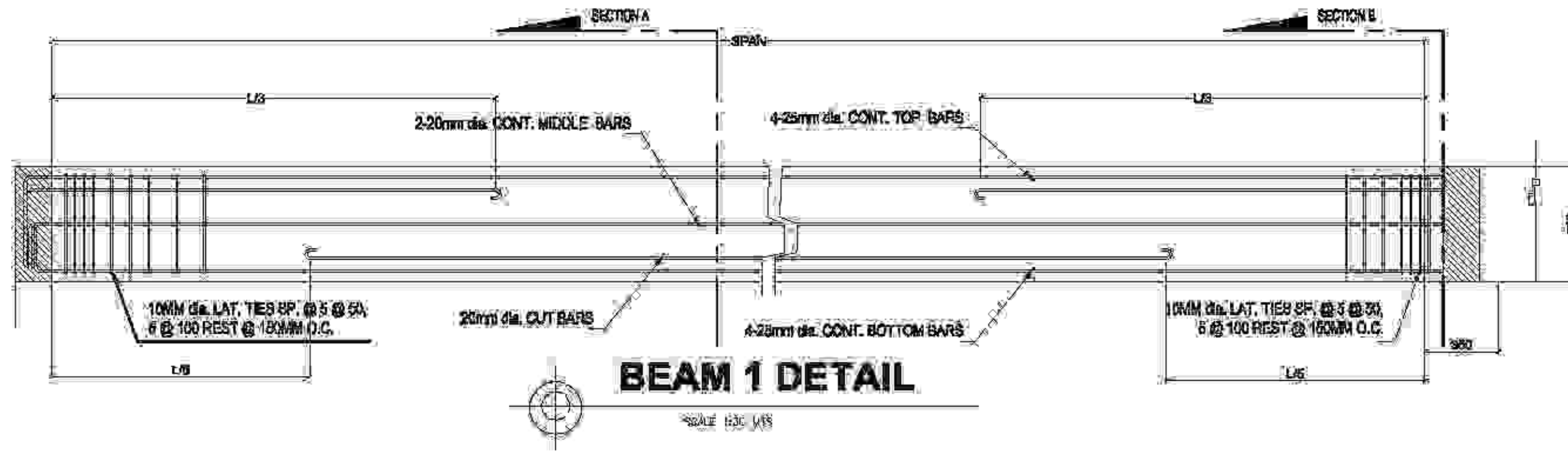
 <b>TAMAYO   REVISA Architects</b> LEYSON BLDG., ROXAS AVE. & CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES MOBILE NO. - 0920 7968 871 / (038) 284-4810 E-MAIL ADDRESS - tamayorevsa@yahoo.com	PREPARED BY: <b>DRONICE GABRIEL G. TAMAYO</b> ARCHITECT	PRC: 011634F PER: 281942 DATE: FEBRUARY 01-2017 RACOR: PDR-AKLAW	PROJECT TITLE: <b>PROPOSED 2-TWO STOREY BIODIVERSITY          CONSERVATION AND DEVELOPMENT CENTER</b>	OWNER: <b>AKLAN STATE UNIVERSITY</b>	RECOMMENDING APPROVAL: <b>DR. ANNA MAE C. REUNGO</b>	APPROVAL: <b>DR. DANILLO E. ABAYON</b>	SHEET CONTENT: FOUNDATION PLAN	SHEET NO. <b>S-101</b>
	PROJECT NO.: 1678-AM-17-01	TEL: 445-208-491-000	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	VICE PRESIDENT ADMINISTRATION	SAC PRESIDENT		





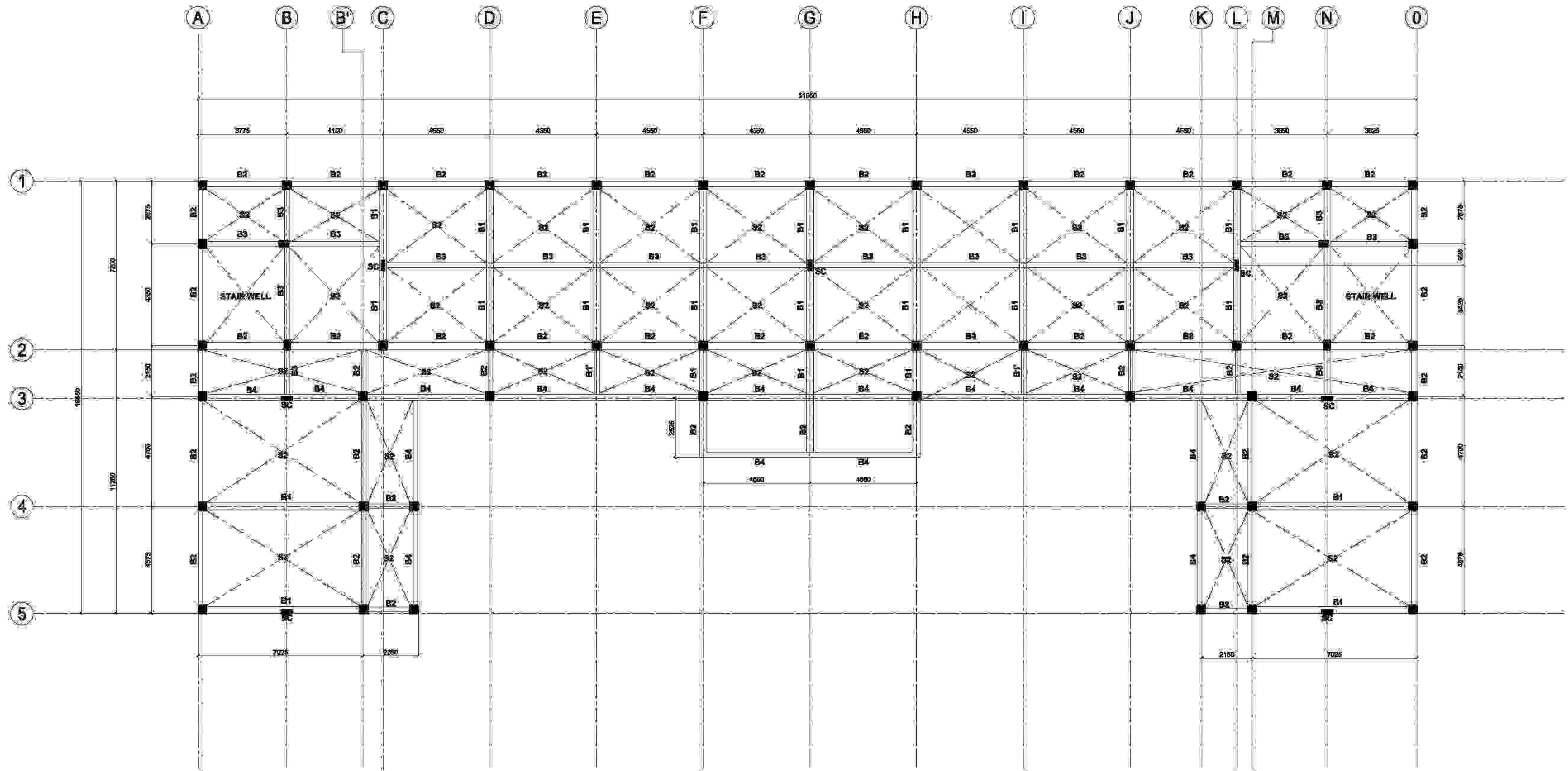
<p><b>TAMAYO   REVISA Architects</b>          LEYSON BLDG., ROXAS AVE. &amp; CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES          MOBILE NO. - 0920 7968 871 / (036) 288-4910          E-MAIL ADDRESS - lamayor@yaho.com</p>	PREPARED BY: <b>DRONICE GABRIEL G. TAMAYO</b> ARCHITECT	PRC: 011644 PR: 281942 DATE: FEBRUARY 01-2017 REASON FOR AWARD: REV.	PROJECT TITLE: <b>PROPOSED 2-TWO STOREY BIODIVERSITY CONSERVATION AND DEVELOPMENT CENTER</b>	OWNER: <b>AKLAN STATE UNIVERSITY</b>	RECOMMENDING APPROVAL: <b>DR. ANNA MAE C. REUNGO</b>	APPROVAL: <b>DR. DANILLO E. ABAYON</b>	SHEET CONTENT: 0 COLUMN FOOTING PLAN AND DETAIL 0 COLUMN PLAN AND DETAIL 0 SLAB DETAIL 0 SLAB ON GRADE DETAIL 0 TIE BEAM PLAN AND DETAIL	SHEET NO.: <b>S-102</b>
	PROJECT NO.: 445-208-491-000	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	NCI PRESIDENT ADMINISTRATION	SAC PRESIDENTS			






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	PREPARED BY: DRONICE GABRIEL G. TAMAYO ENGINEER	PRC: 011634F PRD: 281942 DATE: FEBRUARY 01-2017 REASON: PER AKLAM	PROJECT TITLE: <b>PROPOSED 2-TWO STOREY BIODIVERSITY CONSERVATION AND DEVELOPMENT CENTER</b>	OWNER: <b>AKLAN STATE UNIVERSITY</b>	RECOMMENDING APPROVAL: <b>DR. ANNA MAE C. REUNGO</b>	APPROVAL: <b>DR. DANILLO E. ABAYON</b>	SHEET CONTENT: © COLUMN FOOTING PLAN AND DETAIL © COLUMN PLAN AND DETAIL © SLAB DETAIL © SLAB ON GRADE DETAIL © TIE-BAR PLAN AND DETAIL	SHEET NO. <b>S-103</b>

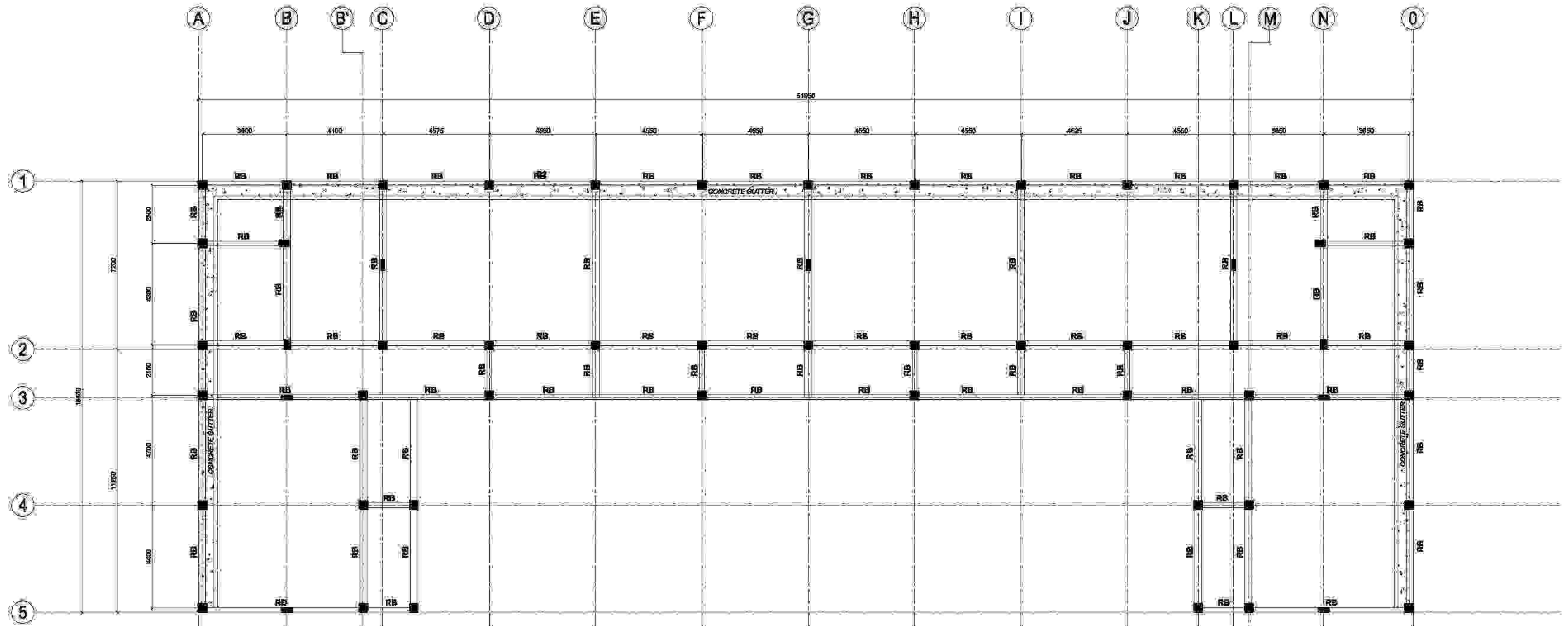




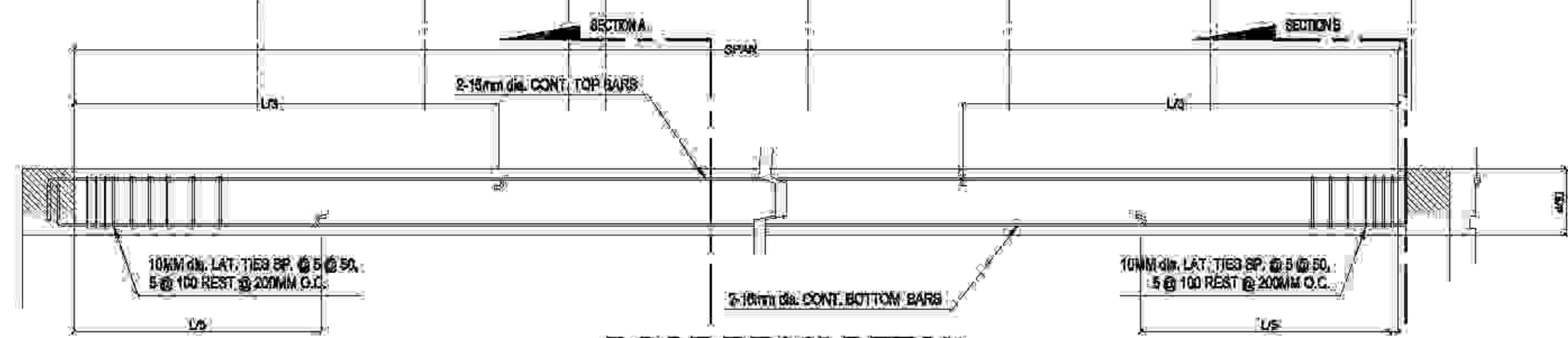
**1 SECOND FLOOR FRAMING PLAN**  
 S-104 SCALE 1:100 MTR

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	PROJECT NO.: 16784MRE1616	REGISTERED NO.: 445-208-491-000	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	TITLE: PRESIDENT ADMINISTRATION	TITLE: SAC PRESIDENT		

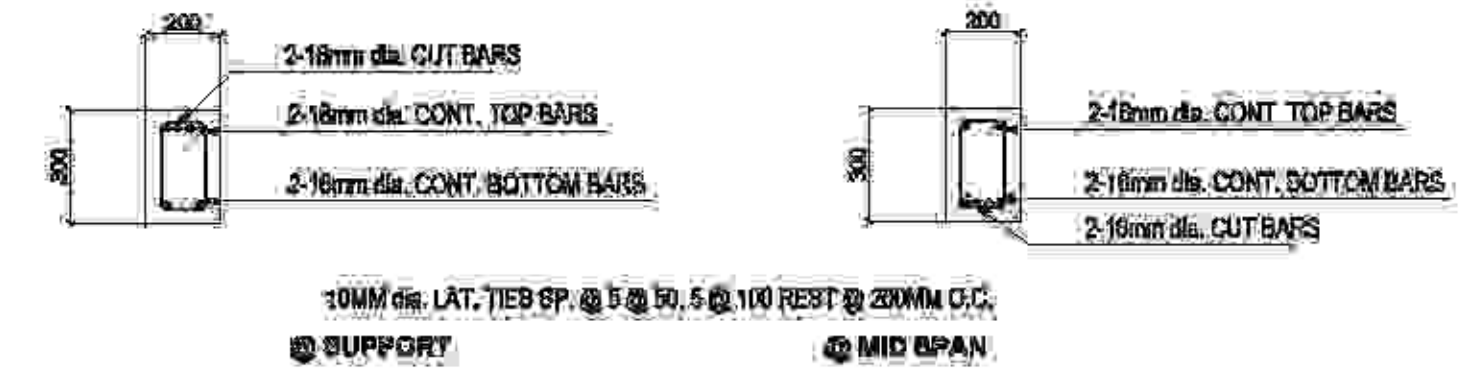





**1 ROOF BEAM DETAIL**  
 S-105 SCALE 1:100 MTR



**ROOF BEAM DETAIL**  
 SCALE 1:60 MTR



**ROOF BEAM PLAN**

 <b>TAMAYO   REVISA Architects</b> LEYSON BLDG., ROXAS AVE. & CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES MOBILE NO. - 0930 7968 871 / (036) 284-4810 E-MAIL ADDRESS - tamayorevsa@yahoo.com	PREPARED BY: <b>DRONICE GABRIEL G. TAMAYO</b> ENGINEER	PRC: 0116347 PER: 281942 DATE: FEBRUARY 01-2017 REASON: PER-AKLAN REV: 445-208-491-000	PROJECT TITLE: <b>PROPOSED 2-TWO STOREY BIODIVERSITY CONSERVATION AND DEVELOPMENT CENTER</b>	CLIENT: <b>AKLAN STATE UNIVERSITY</b>	RECOMMENDING APPROVAL: <b>DR. ANNA MAE C. REUNGO</b> VICE PRESIDENT ADMINISTRATION	APPROVED: <b>DR. DANILLO E. ABAYON</b> SAC PRESIDENTS	SHEET CONTROL: ROOF BEAM DRAWING PLAN ROOF BEAM PLAN AND DETAIL	SHEET NO. <b>S-105</b>
	PREPARED BY:	PRC:	PROJECT TITLE:	CLIENT:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTROL:	SHEET NO.:



**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 ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEEL, MISCELLANEOUS IRON, PRE-CAST CONCRETE ECT SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORKS TO BEGIN. CHECK WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR CONDUITS, PIPE SLEEVES, ECT. TO BE EMBEDDED IN CONCRETE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING OF THE STRUCTURE FOR ALL LOADS THAT MAY BE IMPOSED DURING CONSTRUCTION.

**B. CONCRETE AND REINFORCEMENT**

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

LOCATION CURB AND SLAB ON GRADE	28 DAYS STRENGTH	MAX. SIZE AGGREGATE	SLUMP
	5000 PSI (210KG/CM2)	1 IN. (25MM)	4 IN. (100MM)
COLUMN	5000 PSI (2107CM2)	3/4 IN. (19MM)	4 IN. (100MM)
BEAMS AND SLABS	5000 PSI (2107CM2)	3/4 IN. (19MM)	4 IN. (100MM)
FOUNDATION	5000 PSI (2107CM2)	3/4 IN. (19MM)	4 IN. (100MM)

- ALL REINFORCED BARS SHALL CONFORM TO ASTM (PNS 49) GRADE 93 FOR DIA 2 AND SMALLER BARS AND GRADE 49 FOR DIA 18 AND LARGER BARS. COLUMNS HOOPS ARE ALL GRADE 49 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.

**5. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCED STEEL AS FOLLOWS:**

SUSPENDED SLAB	3/4 IN. (19 MM.)
SLAB ON GRADE	1 1/2 IN. (38 MM.)
WALLS ABOVE GRADE	1 IN. (25 MM.)
BEAMS STIRRUPS AND COLUMNS	1 1/2 IN. (38 MM.)
WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORM	2 IN. (50 MM.)
WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	3 IN. (75 MM.)

- SPICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAP OR EXTEND IN ACCORDANCE WITH (TABLE OF LAP SPICES AND ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPICES SHALL BE STAGGERED WHEREVER POSSIBLE.

- ALL ANCHOR BOLTS, DOWELS AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED AND SECURED IN PLACED PRIOR TO PLACING OF CONCRETE.

- CONTRACTOR SHALL NOTED AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENT, AND MECHANICAL DRAWINGS.

- ALL CONCRETE SHALL KEPT MOIST FOR MINIMUM OF SEVEN (7) CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.

**10. STRIPPING OF FORMS AND SHORES:**

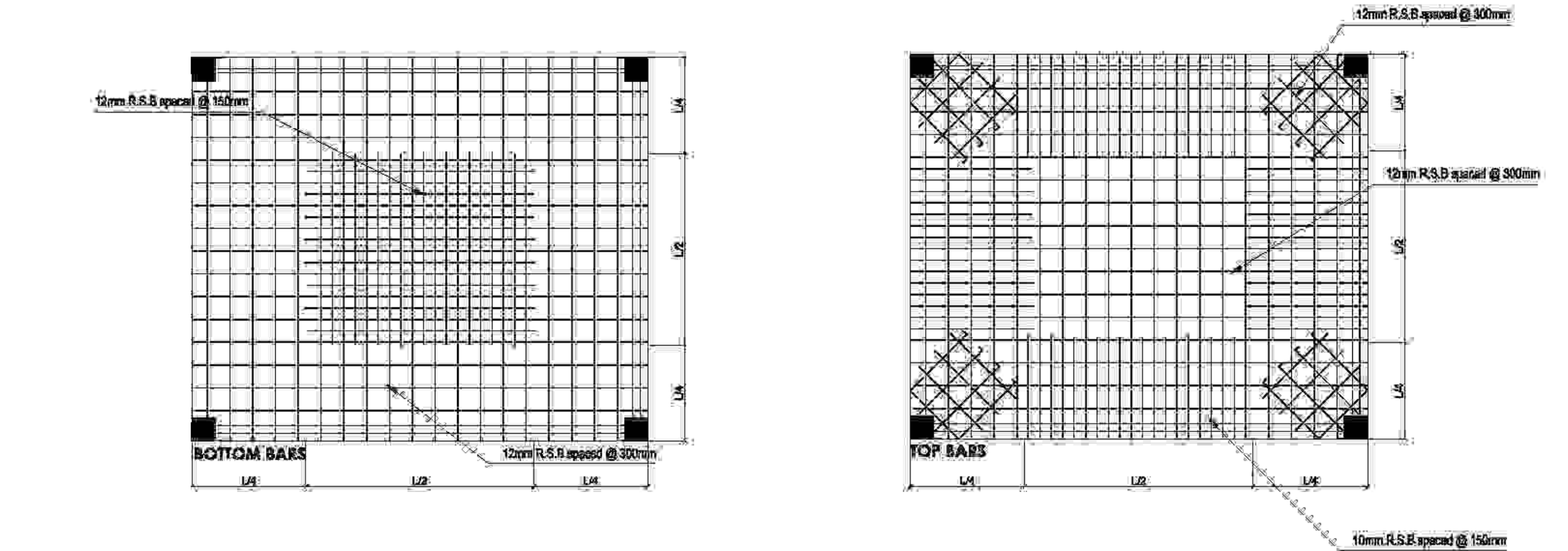
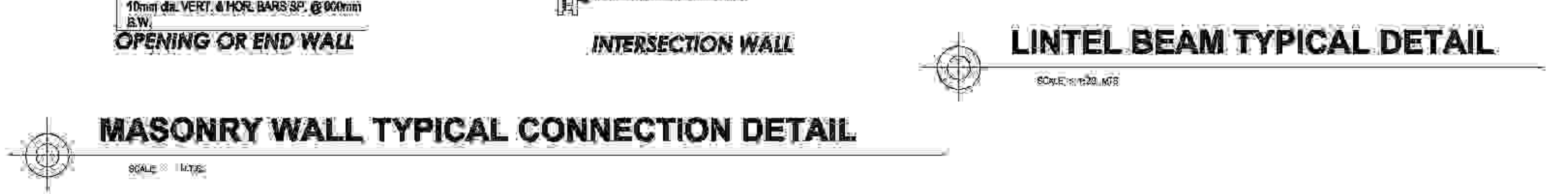
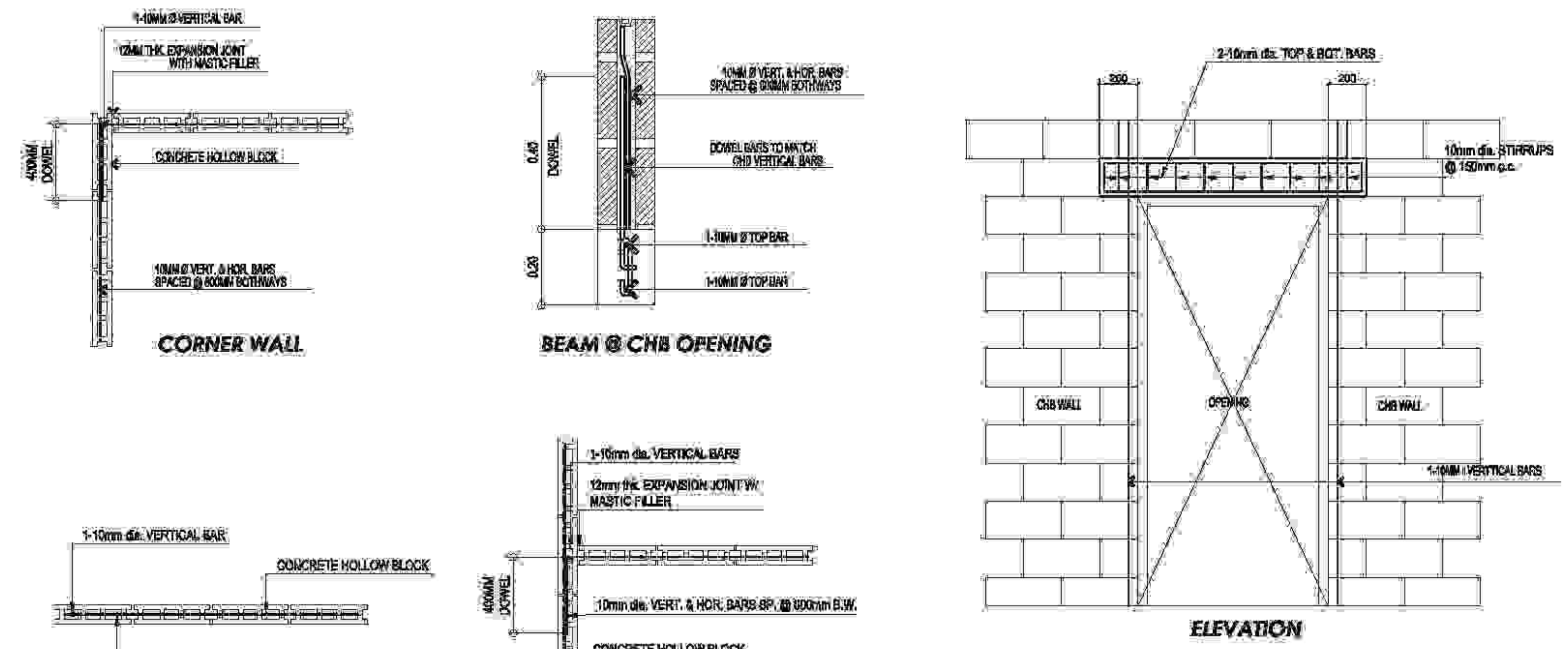
FOUNDATION	24 HOURS
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	8 DAYS
WALLS	18 HOURS
BEAMS	14 DAYS

**C. CAMBER REQUIREMENTS**

- UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS CAMBER ALL R.C. BEAMS UNLESS 10 mm FOR EVERY 4000mm OF CLEAR SPAN EXCEPT CANTILEVERS WHICH SHALL BE 50mm FOR EVERY 3000 OF CLEAR SPAN.
- UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS, CAMBER ALL R.C. SLABS 8mm PER 3000mm OF SHORTER SPAN AND 14mm FOR EVERY 3000mm OF CANTILEVER SPAN.

**D. FOUNDATION**

- FOUNDATION WAS DESIGNED USING AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 2500 PSF (118.75 MPa)
- FOUNDATION SHALL REST ON NATURAL SOIL, UNLESS OTHERWISE NOTED BY THE ENGINEER. NO PART OF THE FOUNDATION SHALL REST ON FILL.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAVE BEEN COMPLETED AND PRIOR TO CONCRETING TO CONFIRM THE DESIGN SOIL BEARING CAPACITY.
- THE CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATING AND SHORING NECESSARY TO SAFELY RETAIN EXCAVATION AND EARTH BANKS.
- ALL ON-SITE WORKS SHALL BE AS PER RECOMMENDATION OF THE PROJECT SOIL ENGINEER.
- PILING, IF ANY, SHALL BE CONDUCTED WITH MINIMUM DISTURBANCE TO ADJACENT PROPERTIES.

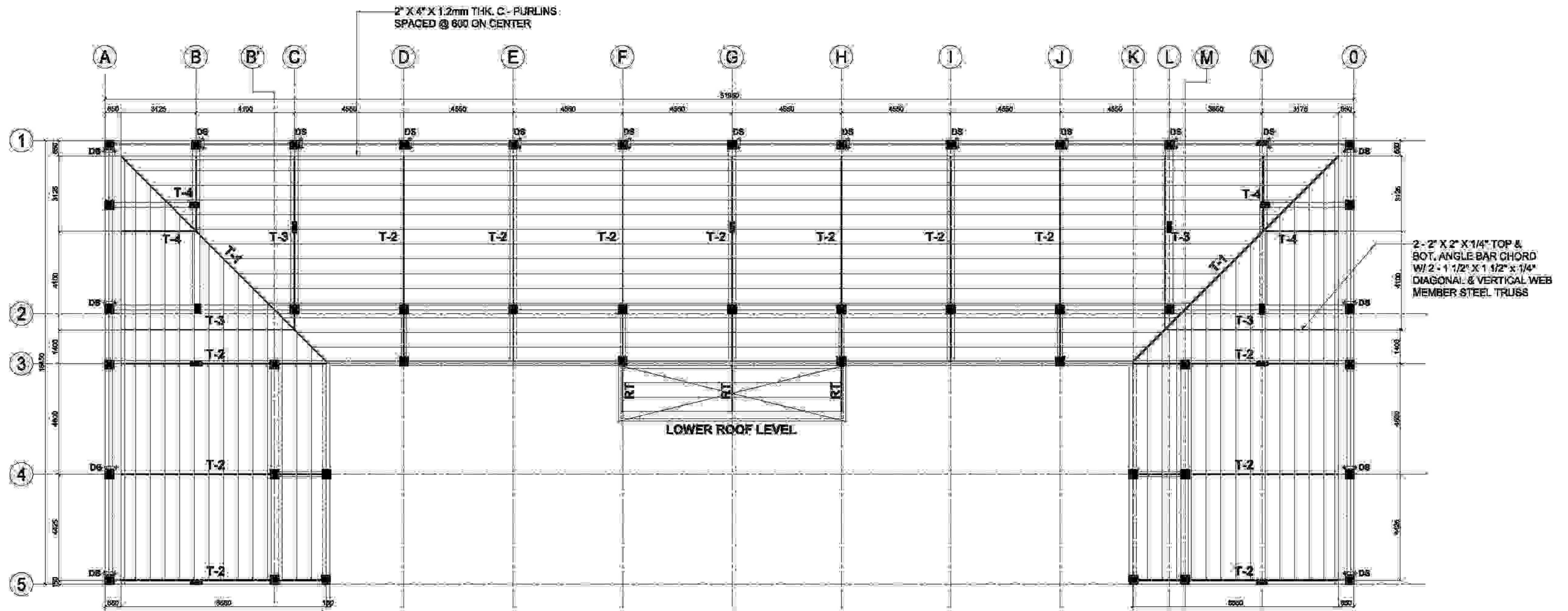


**MASONRY WALL TYPICAL CONNECTION DETAIL**


**TWO WAY SLAB SECTION (S2)**

<p><b>TAMAYO   REVISA Architects</b> LEYSON BLDG., ROXAS AVE. &amp; CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES MOBILE NO. - 0920 7968 871 / (036) 288-4910 E-MAIL ADDRESS - lamrevisa@yahoo.com</p>	<p>PREPARED BY: DRONICE GABRIEL G. TAMAYO</p>	<p>PRC: 0116344 PRC No: 281942 DATE: FEBRUARY 01-2017 REASON FOR REVISE: NONE</p>	<p>PROJECT TITLE: PROPOSED 2-TWO STOREY BIODIVERSITY CONSERVATION AND DEVELOPMENT CENTER</p>	<p>OWNER: AKLAN STATE UNIVERSITY</p>	<p>RECOMMENDING APPROVAL: DR. ANNA MAE C. REUNGO</p>	<p>APPROVED: DR. DANILLO E. ABAYON</p>	<p>SECT CONTROL: MASONRY WALL TYPICAL CONNECTION DETAIL &amp; LINTEL BEAM TYPICAL DETAIL &amp; TWO WAY SLAB SECTION PLAN AND DETAIL</p>	<p>REV NO: S-106</p>
	<p>REVISIONS: NONE</p>	<p>REV: 445-208-491-000</p>	<p>LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN</p>	<p>LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN</p>	<p>NOI: FEBRIST ADMINISTRATION</p>	<p>SAC: PRESIDENTS</p>		

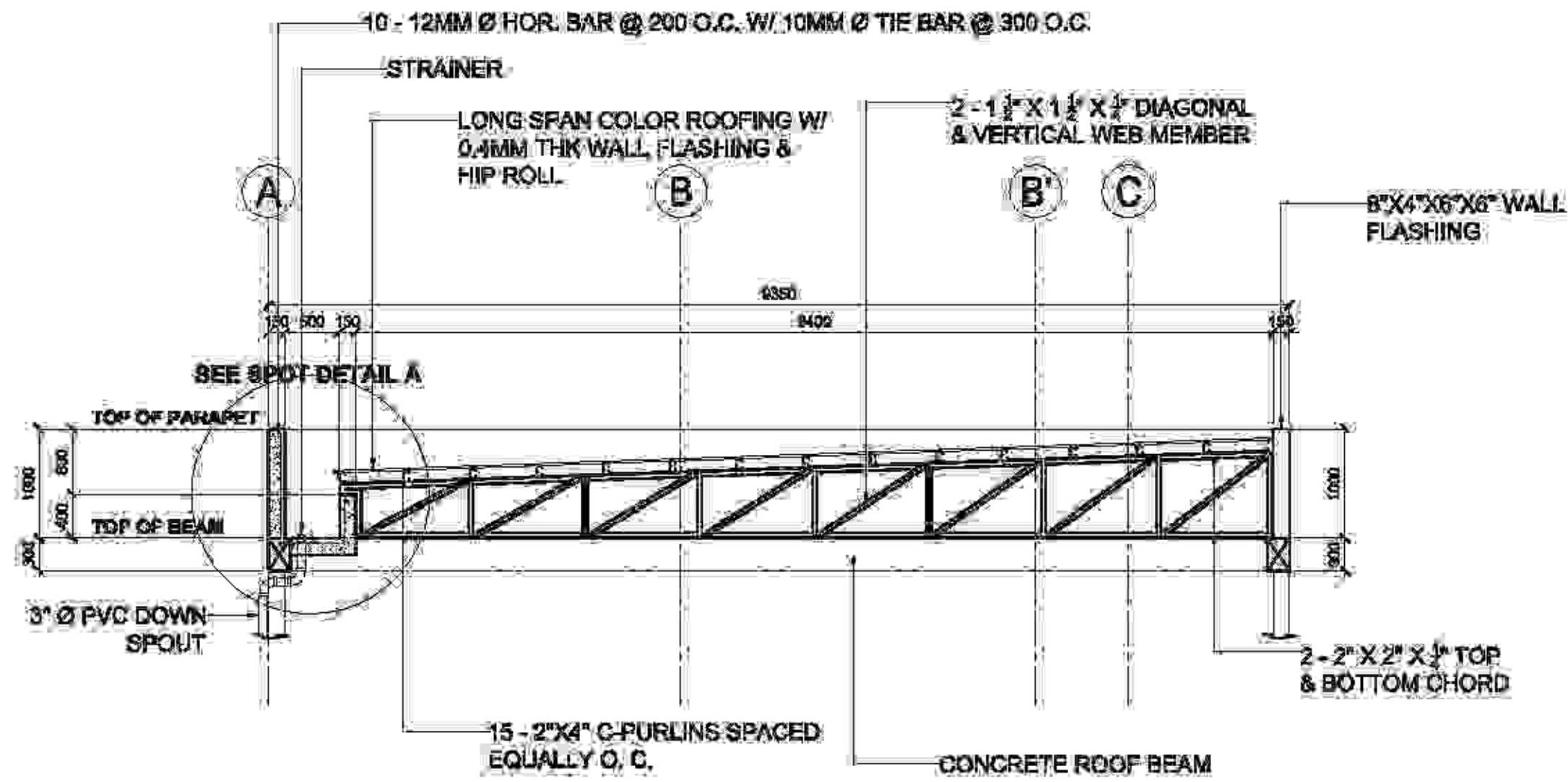




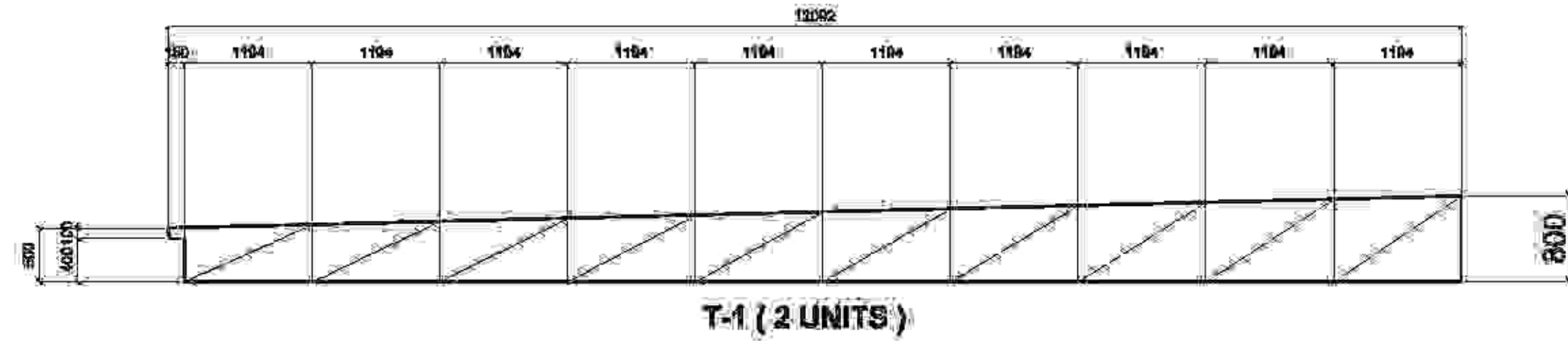
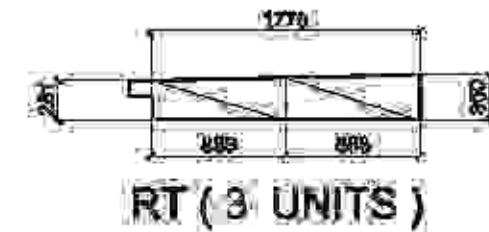
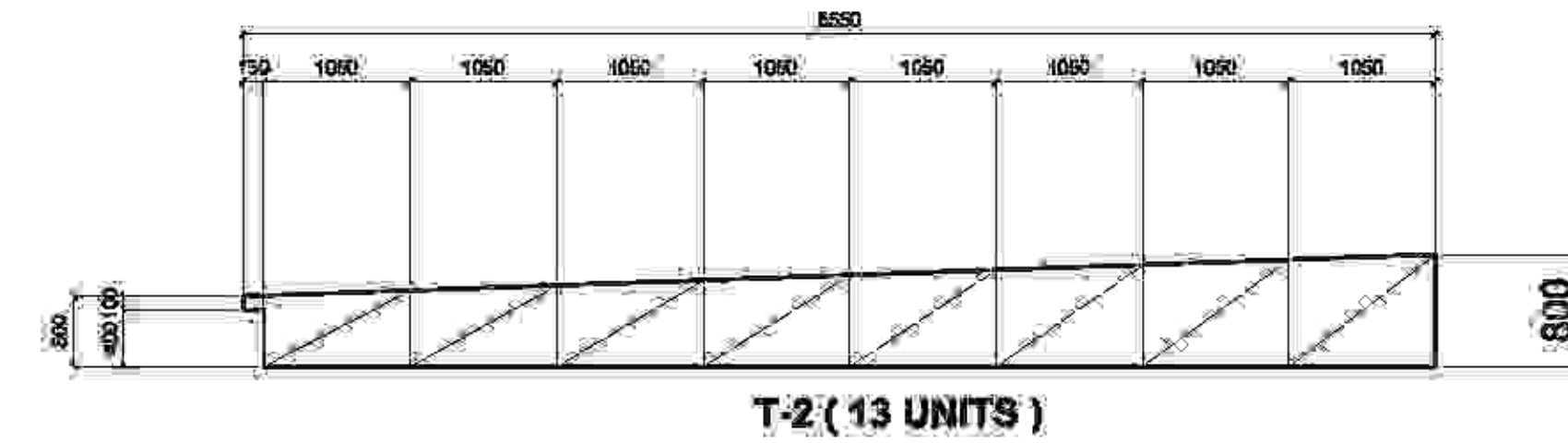
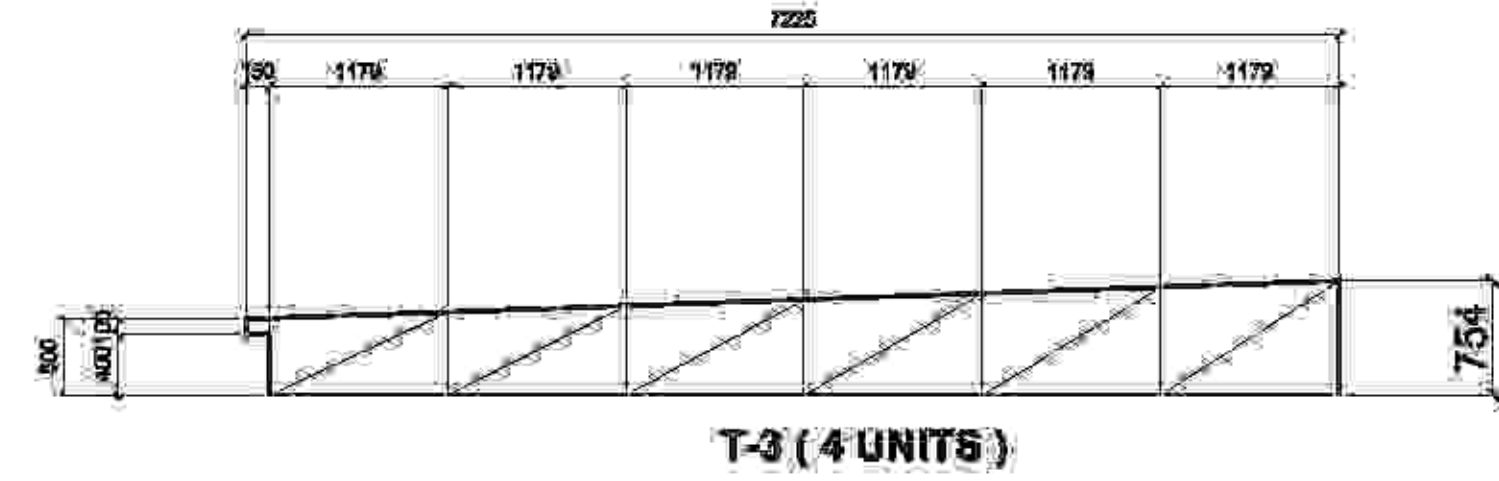
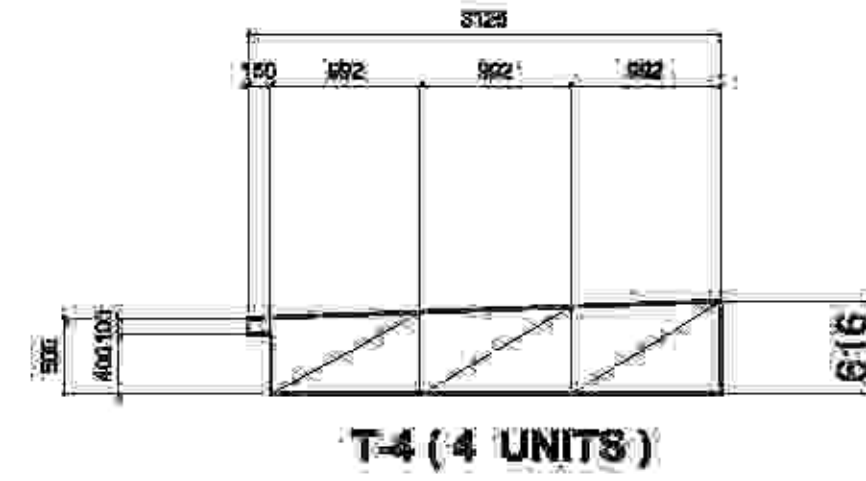
**1 ROOF FRAMING PLAN**  
 SCALE 1:100 MTR

 <b>TAMAYO   REVISA Architects</b> LEYSON BLDG., ROXAS AVE. & CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES MOBILE NO. - 0920 7968 871 / (036) 288-4310 E-MAIL ADDRESS - <a href="mailto:larrevisa@yahoo.com">larrevisa@yahoo.com</a>	PREPARED BY: <b>DRONICE GABRIEL G. TAMAYO</b> ENGINEER	PRC: 0116344 PRD: 2819462 DATE: FEBRUARY 01-2017 REASON: PERIKULAN	PROJECT TITLE: <b>PROPOSED 2-TWO STOREY BIODIVERSITY          CONSERVATION AND DEVELOPMENT CENTER</b>	OWNER: <b>AKLAN STATE UNIVERSITY</b>	RECOMMENDING APPROVAL: <b>DR. ANNA MAE C. REUNGO</b> <small>VICED PRESIDENT ADMINISTRATION</small>	APPROVAL: <b>DR. DANILLO E. ABAYON</b> <small>SAC PRESIDENT</small>	SHEET CONTENT: <small>OF ROOF FRAMING PLAN</small>	SHEET NO.: <b>S-107</b>
	PROJECT NO.: JRS/AM/16/101	PROJECT NO.: 445-208-491-000	LOCATION: <small>AKLAN STATE UNIVERSITY, BANGAL, AKLAN</small>	LOCATION: <small>AKLAN STATE UNIVERSITY, BANGAL, AKLAN</small>	VICE PRESIDENT ADMINISTRATION	SAC PRESIDENT		

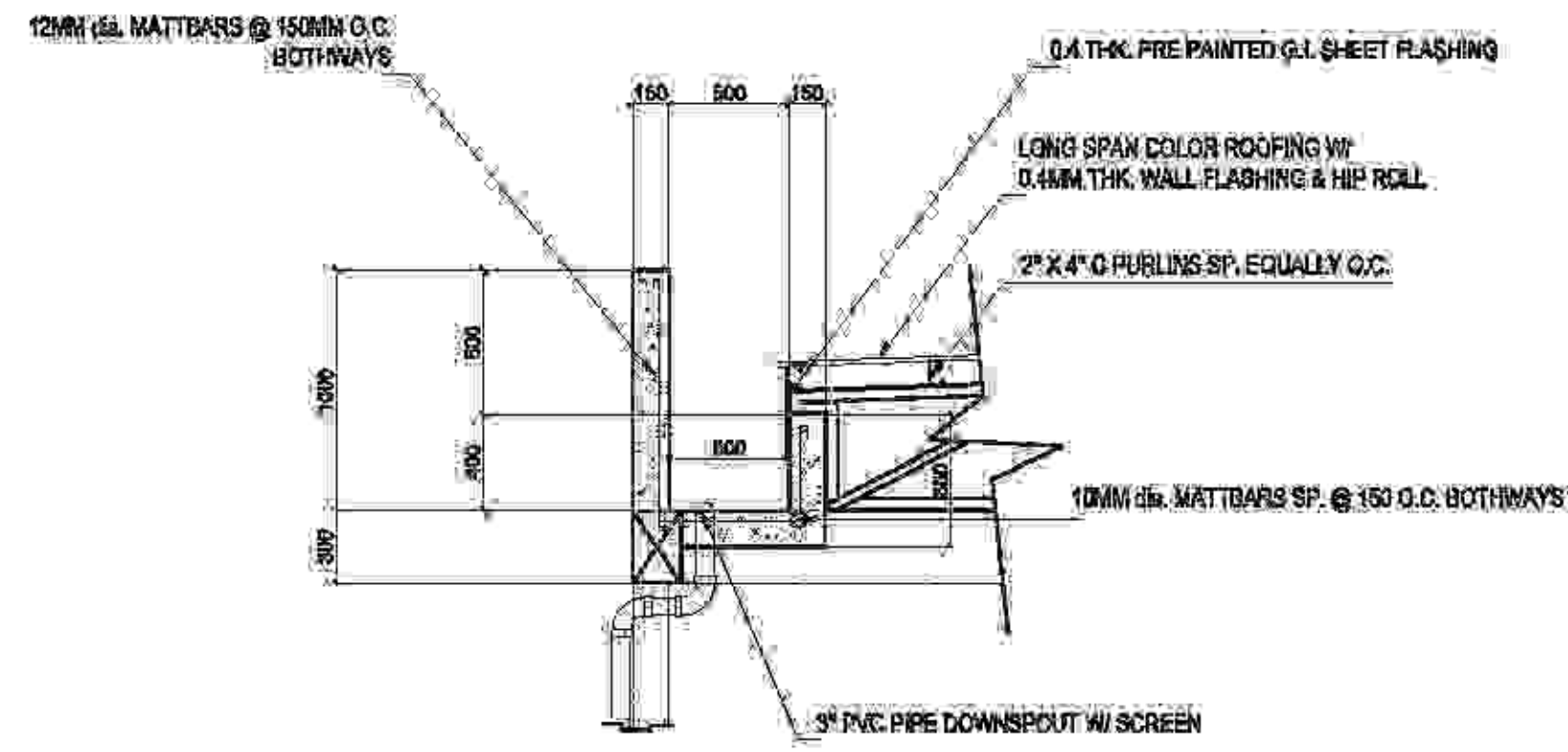




**1** TYPICAL TRUSS DETAIL  
S-109 SCALE 1:100 MTR.



**2** TRUSS DIAGRAM  
S-109 SCALE 1:100 MTR.



**NOTE:**  
**TOP CHORD:** 2 - 2" X 2" X 1/4" ANGLE BAR  
**BOTTOM CHORD:** 2 - 2" X 2" X 1/4" ANGLE BAR  
**WEB MEMBERS:** 2 - 1 1/2" X 1 1/2" X 1/4" ANGLE BAR  
**CONNECTIONS:** STANDARD WELD, 2" METAL TEKSCREW

<p><b>TAMAYO   REVISA Architects</b>          LEYSON BLDG., ROXAS AVE. &amp; CALACHUCHI ROAD, ANDAGAO, KALIBO, Aklan, PHILIPPINES          MOBILE NO. - 0920 7968 871 / (036) 288-4910          E-MAIL ADDRESS - <a href="mailto:tanrevisa@yahoo.com">tanrevisa@yahoo.com</a></p>	PREPARED BY: <b>DRONICE GABRIEL G. TAMAYO</b> ARCHITECT	PRC: 011634F PRD: 2819425 DATE: FEBRUARY 01-2017 REASON FOR AWARD: REV: 445-208-491-000	PROJECT TITLE: <b>PROPOSED 2-TWO STOREY BIODIVERSITY CONSERVATION AND DEVELOPMENT CENTER</b>	CLIENT: <b>AKLAN STATE UNIVERSITY</b>	RECOMMENDING APPROVAL: <b>DR. ANNA MAE C. REUNGO</b>	APPROVAL: <b>DR. DANILO E. ABAYON</b>	SHEET CONTENT: ○ TYPICAL TRUSS DETAIL ○ TRUSS DIAGRAM	SHEET NO. <b>S-108</b>
	PROJECT NO.: 2819425	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	LOCATION: AKLAN STATE UNIVERSITY, BANGAL, AKLAN	VICE PRESIDENT ADMINISTRATION:	SAC PRESIDENT:			