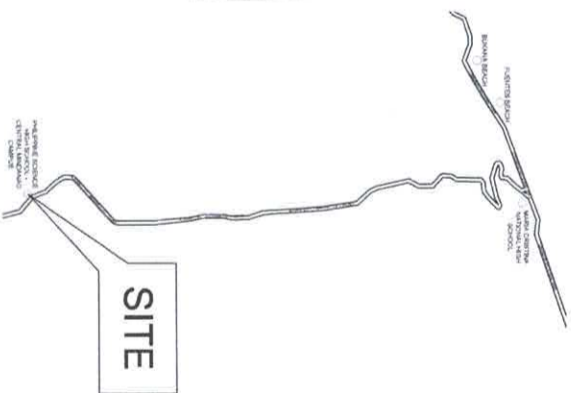
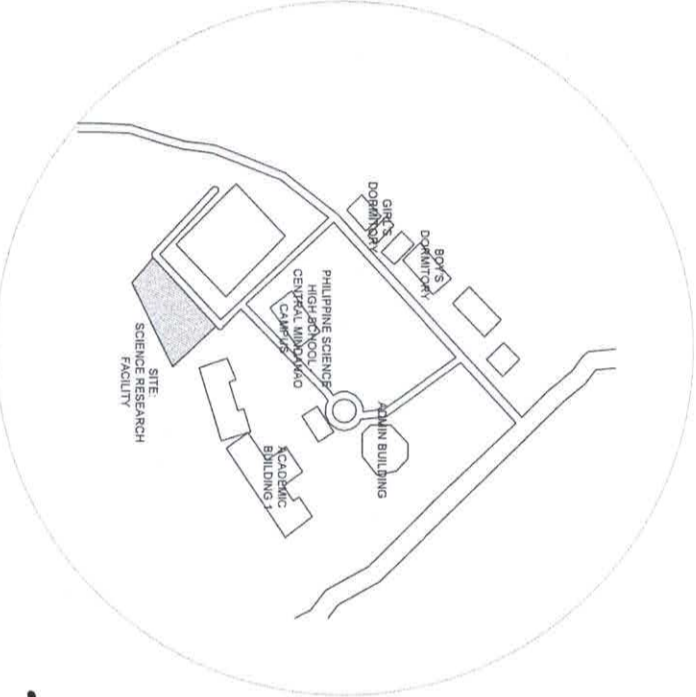


GENERAL NOTES

- ALL WORKS PERFORMED UNDER THE SCOPE OF THIS SPECIFICATION SHALL CONFORM TO THE FOLLOWING CODES AND STANDARDS WHERE APPLICABLE. WHEN A CONFLICT OCCURS, THE COMMUNICATIONS CONTRACTOR IS DIRECTED TO FOLLOW THE MOST STRINGENT REQUIREMENTS.
  - A. THE LATEST EDITION OF THE PHILIPPINE ELECTRONICS CODE
  - B. THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE
  - C. THE NATIONAL BUILDING CODE AND ITS IRR
  - D. THE RULES AND REGULATION OF THE LOCALITY
  - E. THE LATEST REVISIONS OF THE ANSII/TA STANDARDS
- ALL VOICE AND DATA CABLING WORKS HEREIN INCLUDED SHALL BE EXECUTED BY A MANUFACTURER-CERTIFIED CABLE INSTALLER (CONTRACTOR) UNDER THE DIRECT SUPERVISION OF A FULL TIME LICENSED PROFESSIONAL ELECTRONICS ENGINEER (PECE). THE COMMUNICATIONS CONTRACTOR SHALL PROVIDE COPIES OF THE CERTIFICATION OF THE COMPANY, WITH THE NAMES OF STAFF LISTING THEIR TRAINING, AND YEARS OF EXPERIENCE TO PROVIDE PROOF OF COMPLIANCE TO MANUFACTURERS CERTIFICATION REQUIREMENTS.
- ALL VOICE AND DATA HORIZONTAL CABLING WORKS HEREIN INCLUDED SHALL BE CATEGORY 5e 4-PAIRS UTP.
- ALL ANALOG VOICE CABLING WORKS HEREIN INCLUDED SHALL BE CATEGORY 5e 4-PAIRS UTP.
- BACKBONE CABLING SHALL BE 8-CORE MULTIMODE OPTICAL FIBER 50/125um OM3 FOR DATA AND CATEGORY 3 OR HIGHER MULTIPAIR CABLE FOR ANALOG VOICE.
- ALL VOICE AND DATA CONDUITS SHALL BE PROTECTED AGAINST DAMAGES BY THE ENTRANCE OF WATER AND FOREIGN MATTER DURING CONSTRUCTION, ALL ENDS OF CONDUITS SHALL BE PROPERLY PLUGGED TO EXCLUDE MOISTURE AND DUST IMMEDIATELY AFTER THE CONDUITS ARE PLACED.
- ALL VOICE AND DATA CONDUITS SHALL BE NO MORE THAN 60% FILLED
- THERE SHALL BE ADEQUATE AND EFFECTIVE EQUIPMENT GROUNDING. GROUND RESISTANCE SHOULD BE NO MORE THAN (5) OHMS. IF GROUND RESISTANCE EXCEED FIVE (5) OHMS ADDITIONAL GROUND RODS SHALL BE PROVIDED
- ALL MATERIALS NOT FURNISHED BY REQUISITION, AND REQUIRED TO COMPLETE THE INSTALLATION OF A STRUCTURED CABLING SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR.
- THE COMMUNICATIONS CONTRACTOR SHALL EXAMINE AND STUDY THE ARCHITECTURAL SCALE DRAWING, LARGE-SCALE AND FULL-SIZE DETAILS, APPROVED SHOP DRAWING FROM OTHER TRADES AND SHALL FREQUENTLY CONSULT AND COORDINATE WITH OTHER TRADES TO AVERT CONFLICT IN ACTUAL SITE INSTALLATION WORKS.
- THE PLANS AS DRAWN ARE BASED UPON THE ARCHITECTURAL PLANS AND DETAILS. THE PLANS ARE DIAGRAMMATICAL AND DO NOT SCALE SHOW ALL FITTINGS, NECESSARY TO FIT TO THE BUILDING CONDITIONS. THE LOCATION OF INFORMATION OUTLETS, APPARATUS AND APPLIANCE SHOWN ON THE PLANS ARE APPROXIMATE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR PROPER LOCATION IN ORDER TO MAKE THEM FIT WITH THE ARCHITECTURAL DETAILS AND INSTRUCTIONS FROM THE ENGINEERS REPRESENTATIVE AT THE SITE
- UPON COMPLETION OF THE STRUCTURED CABLING WORKS, THE FOLLOWING TEST SHALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS AND IN FORMS APPROVED BY THE OWNERS REPRESENTATIVE
  - FOR BALANCED TWISTED-PAIR
    - A. WIRE MAP
    - B. LENGTH
    - C. INSERTION LOSS
    - D. NEXT LOSS (PAIR-TO-PAIR)
    - E. NEXT LOSS (POWER SUM)
    - F. ELFEXT (PAIR-TO-PAIR)
    - G. ELFEXT (POWER SUM)
    - H. RETURN LOSS
    - I. PROPAGATION DELAY



- LEGEND:
- SMOKE DETECTOR
  - CLOSED CIRCUIT TELEVISION
  - DATA
  - TELEPHONE
  - WIFI
  - PRINTER
  - FIRE ALARM BELL
  - SPEAKER

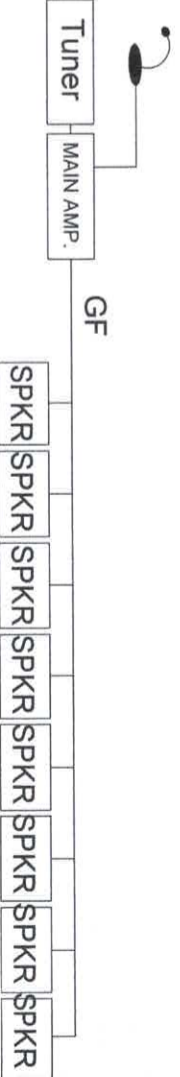
REPUBLIC OF THE PHILIPPINES  
Office of the Building Official  
LANAO DEL NORTE

RECOMMENDING ISSUANCE

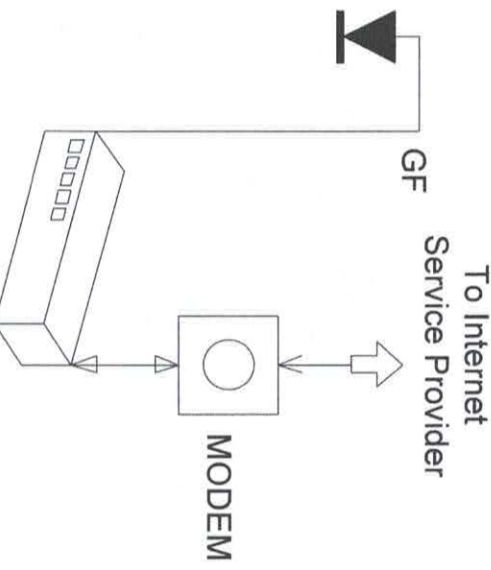
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ISSUED BY: DATE

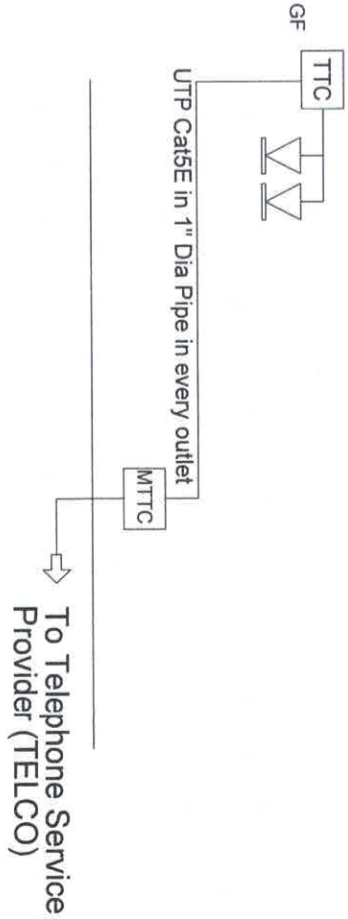
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PUBLIC ADDRESS / BACKGROUND MUSIC SYSTEM  
SINGLE LINE DIAGRAM

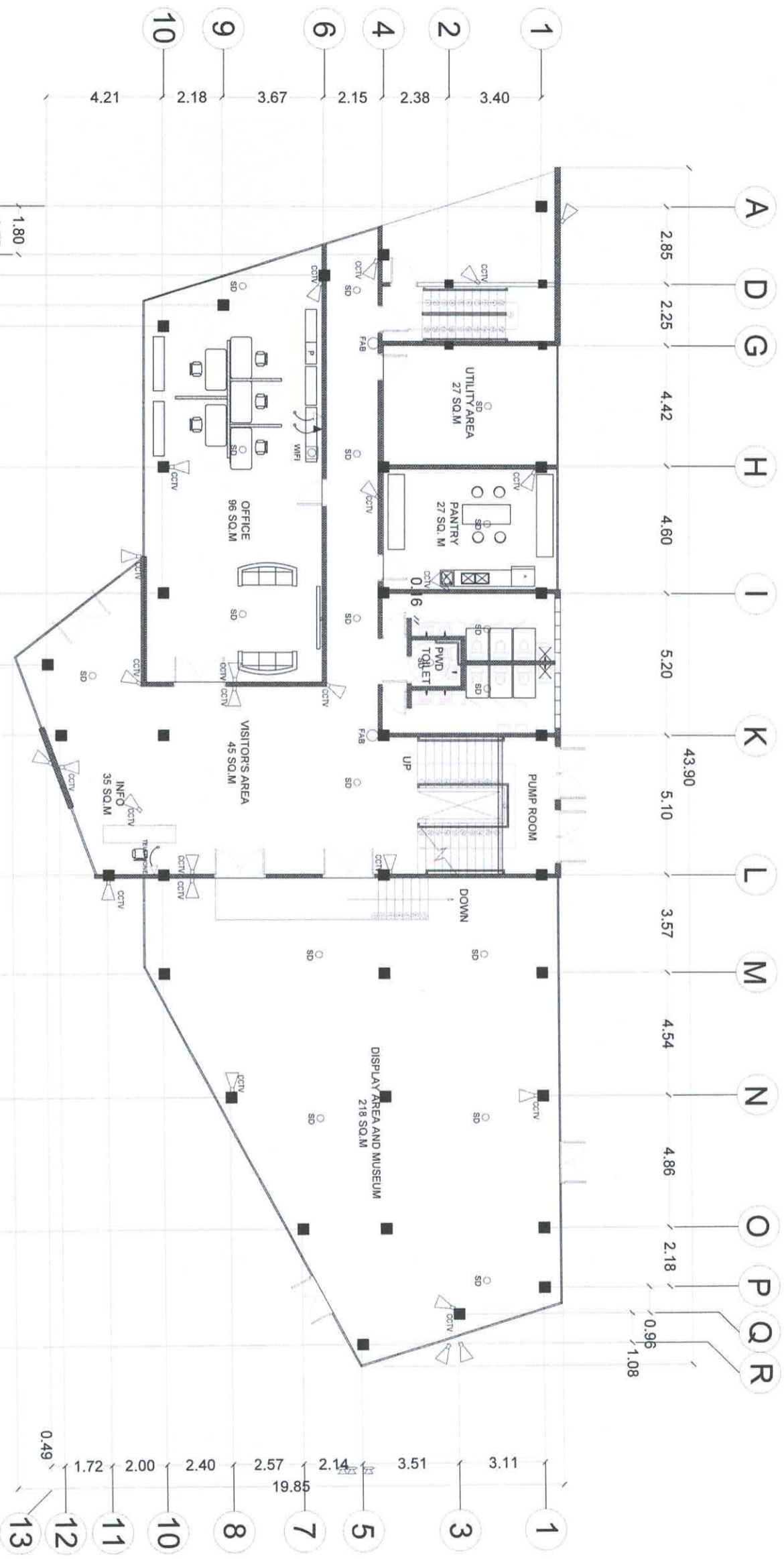


DATA COMM. / INTERNET SYSTEM  
SINGLE LINE/RISER DIAGRAM





VOICE COMM. (TELEPHONE) SYSTEM

 <b>ELJ BUILDERS, Incorporated</b> CONTRACTORS • ENGINEERS • ARCHITECTS	<b>RODSON SUGAROL</b> ELECTRONICS ENGINEER	DRAWINGS AS INSTRUMENTS OF SERVICE ARE PROPERTY OF THE ARCHITECT AND SUCH MUST NOT BE REPRODUCED OR COPIED IN PART OR IN WHOLE WITHOUT PERMISSION. (REPUBLIC ACT 19246)	SEAL	PROJECT TITLE: <b>A PROPOSED 3-STOREY SCIENCE RESEARCH FACILITY</b>	OWNER: <b>PHILIPPINE SCIENCE HIGH SCHOOL-CENTRAL MINDANAO CAMPUS</b>	SHEET CONTENTS: AS-SHOWN	REVISIONS NO. DESCRIPTION DATE	SHEET NO. <b>EL-1</b> 1 4 ELECTRONICS
PRC : 0054621 PTR : 328883 TIN : 264-449-721	REG.DATE: 05-07-2013 DATE: 02-04-2019				LOCATION: NANGKA, BALOI-1, LANAO DEL NORTE	ADDRESS: NANGKA, BALOI-1, LANAO DEL NORTE		



1 GROUND FLOOR ELECTRONICS PLAN  
EL-2 SCALE 1:100 MTS

 <b>ELJ BUILDERS, Incorporated</b> CONTRACTORS • ENGINEERS • ARCHITECTS		 <b>RODSON SUGAROL</b> ELECTRONICS ENGINEER PRC : 0054621 PTR : 328893 TIN : 264-449-721		DRAWINGS AS INSTRUMENTS OF SERVICE ARE PROPERTY OF THE ARCHITECT AND SUCH MUST NOT BE REPRODUCED OR COPIED IN PART OR IN WHOLE WITHOUT PERMISSION. (REPUBLIC ACT 9246)		SEAL		PROJECT TITLE:  <b>A PROPOSED 3-STORY SCIENCE RESEARCH FACILITY</b>		OWNER :  <b>PHILIPPINE SCIENCE HIGH SCHOOL- CENTRAL MINDANAO CAMPUS</b>		SHEET CONTENTS :  AS-SHOWN		REVISIONS		SHEET NO.			
DATE: 02-04-2019		REG. DATE: 05-07-2013												NO.		DESCRIPTION		DATE	
LOCATION: MANGA, BALOI, LAMAO DEL NORTE		ADDRESS: MANGA, BALOI, LAMAO DEL NORTE																<div>EL-2</div> <div>1 4</div> <div>ELECTRONICS</div>	

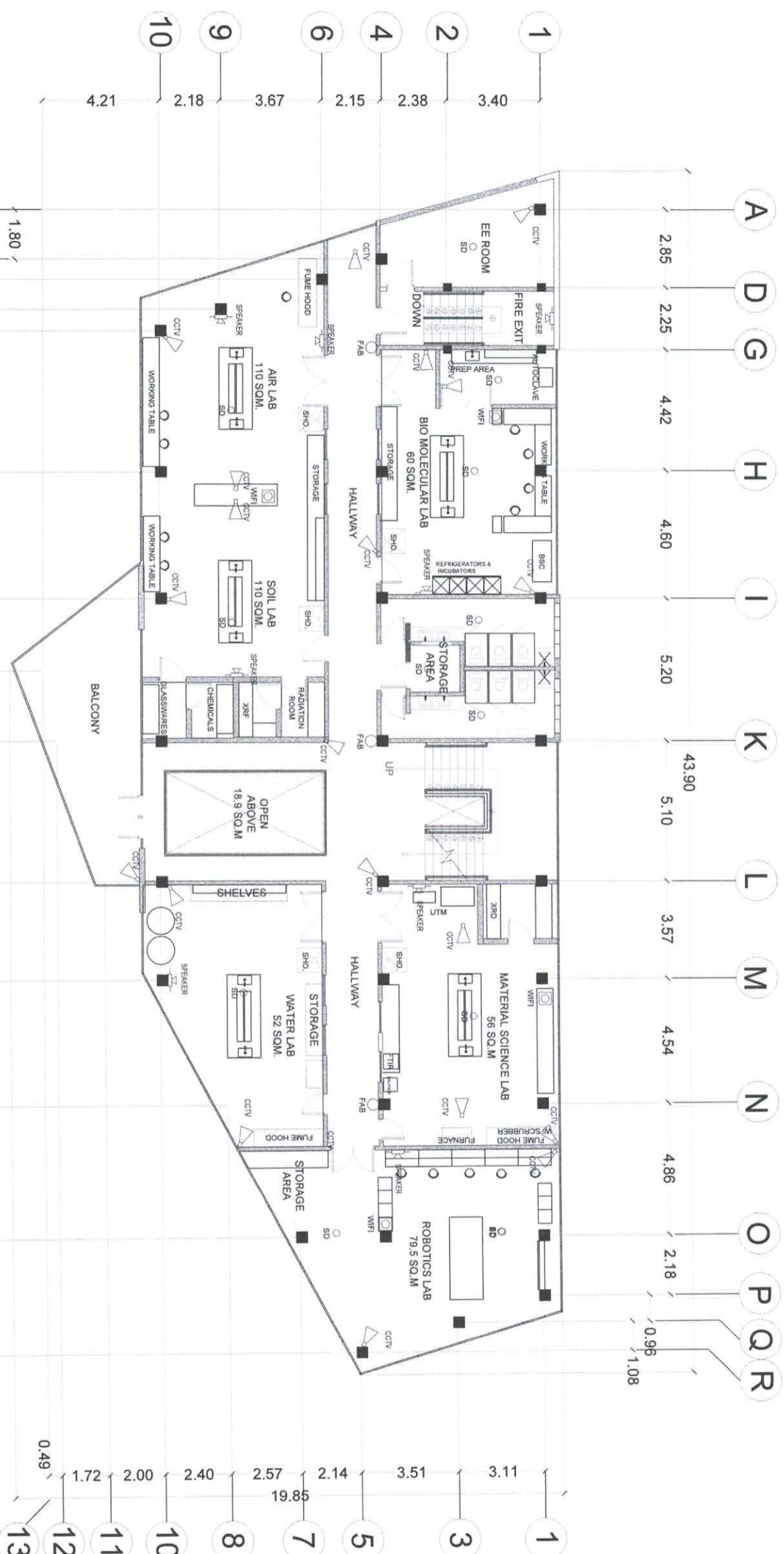
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FORWARDING

RECOMMENDING ISSUANCE

ELECTRONICS SECTION DATE

ISSUED BY: DATE

BUILDING OFFICIAL DATE



2 SECOND FLOOR ELECTRONICS PLAN  
EL-3 SCALE 1:100 MTS

- LEGEND:
- SD SMOKE DETECTOR
  - CCTV CLOSED CIRCUIT TELEVISION
  - DATA
  - TELEPHONE
  - WIFI
  - PRINTER
  - FIRE ALARM BELL
  - SPEAKER

REVISIONS		SHEET NO.
NO.	DESCRIPTION	
		EL-3
		1 4

SHEET CONTENTS:

AS-SHOWN

ELECTRONICS

PROJECT TITLE:

A PROPOSED 3-STOREY SCIENCE  
RESEARCH FACILITY

OWNER:

PHILIPPINE SCIENCE HIGH SCHOOL -  
CENTRAL MINDANAO CAMPUS

SEAL

RODRON SIBAROL  
ELECTRONICS ENGINEER

PRC: 0054621

REG. DATE: 05-07-2013

DATE: 02-04-2019

TIN: 264-449-721

LOCATION: NANGKA, BALOI, LANAO DEL NORTE

ADDRESS: NANGKA, BALOI, LANAO DEL NORTE

CONTRACTORS - ENGINEERS - ARCHITECTS

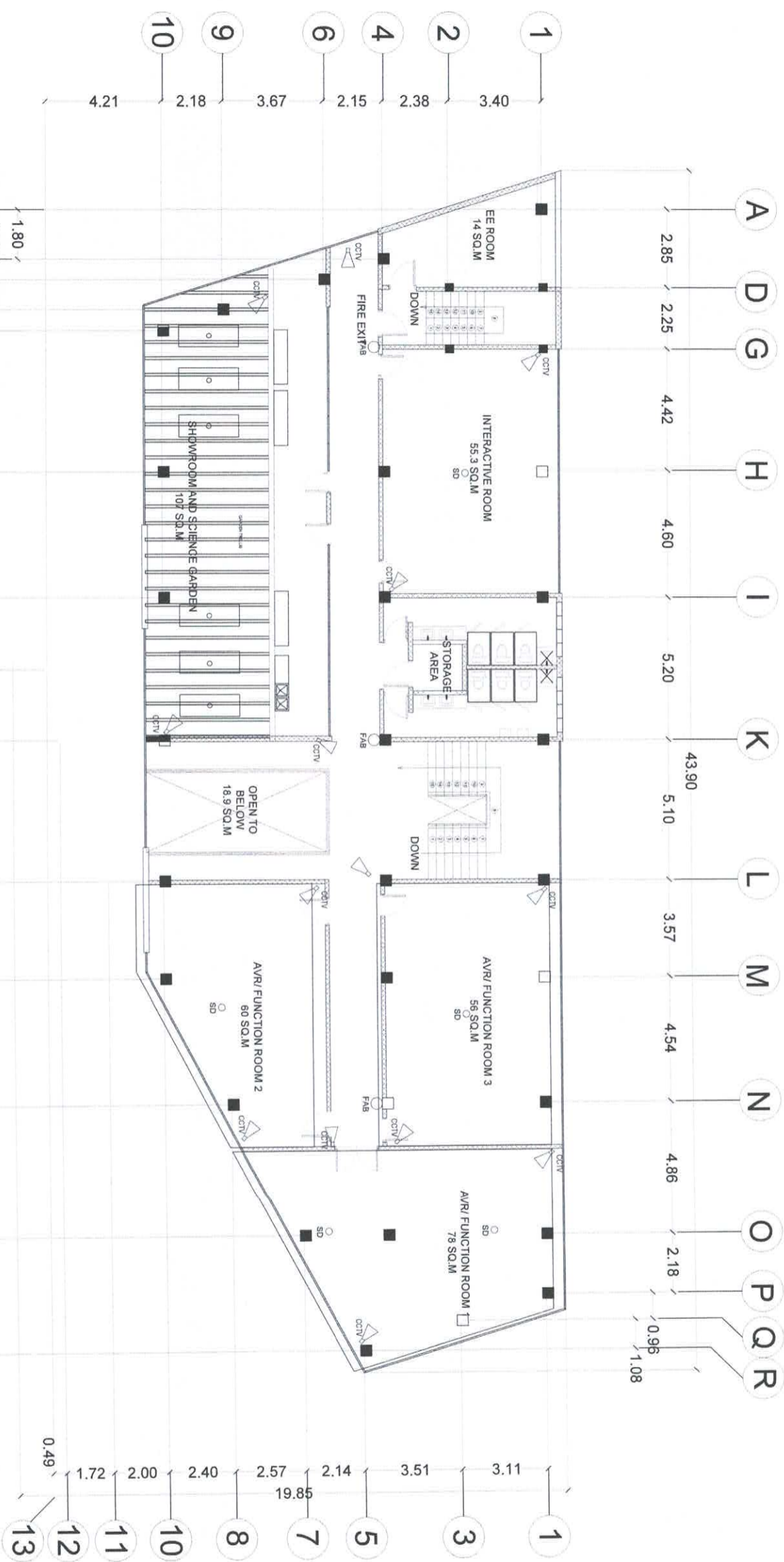
FOR BUILDING

RECOMMENDING ISSUANCE

ELECTRONICS SECTION DATE

ISSUED BY:

BUILDING OFFICIAL DATE



LEGEND:

- SD SMOKE DETECTOR
- CCTV CLOSED CIRCUIT TELEVISION
- DATA
- TELEPHONE
- WIFI
- PRINTER
- FIRE ALARM BELL
- SPEAKER

### 3 THIRD FLOOR ELECTRONICS PLAN

EL-4

SCALE

1:100

MTS

ELJ BUILDERS, Incorporated  
CONTRACTORS - ENGINEERS - ARCHITECTS

RODSON SUGAROL  
ELECTRONICS ENGINEER

PRC : 0054621  
PTR : 328893  
TIN : 264-448-721

REG. DATE: 05-07-2013  
DATE: 02-04-2019

DRAWINGS AS INSTRUMENTS  
OF SERVICE ARE PROPERTY OF  
THE ARCHITECT AND SUCH  
MUST NOT BE REPRODUCED OR  
COPIED IN PART OR IN WHOLE  
WITHOUT PERMISSION.  
(REPUBLIC ACT 9266)

SEAL

PROJECT TITLE:

A PROPOSED 3-STOREY SCIENCE  
RESEARCH FACILITY

OWNER:

PHILIPPINE SCIENCE HIGH SCHOOL-  
CENTRAL MINDANAO CAMPUS

SHEET CONTENTS:

AS-SHOWN

REVISIONS

NO. DESCRIPTION DATE

SHEET NO.

EL-4  
1 4

ELECTRONICS