ROMBLON STATE UNIVERSITY

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Website: rsu.edu.ph

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BID BULLETIN

Clarification No. 3
Solicitation No.: RSU-2025-01-004-EPA

TO	:	All Prospective Bidders
SUBJECT	:	Change/Modification of the Electrical Plan in all attached/associated documents in the Philippine Bidding Documents (PBDs)
DATE	:	02 December 2024

This Bid Bulletin is issued to inform all prospective bidders of the change/modification of the Electrical Plan in all attached/associated documents in the PBDs. Please take notice of these changes.

EARLY PROCUREMENT OF CONSTRUCTION OF COLLEGE OF BUSINESS, ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING, MAIN CAMPUS – PHASE 2 (ABC: PhP10,000,000.00)

FROM

GROUND FLOOR LIGHTING LAYOUT PLAN

ROMBLON STATE UNIVERSITY
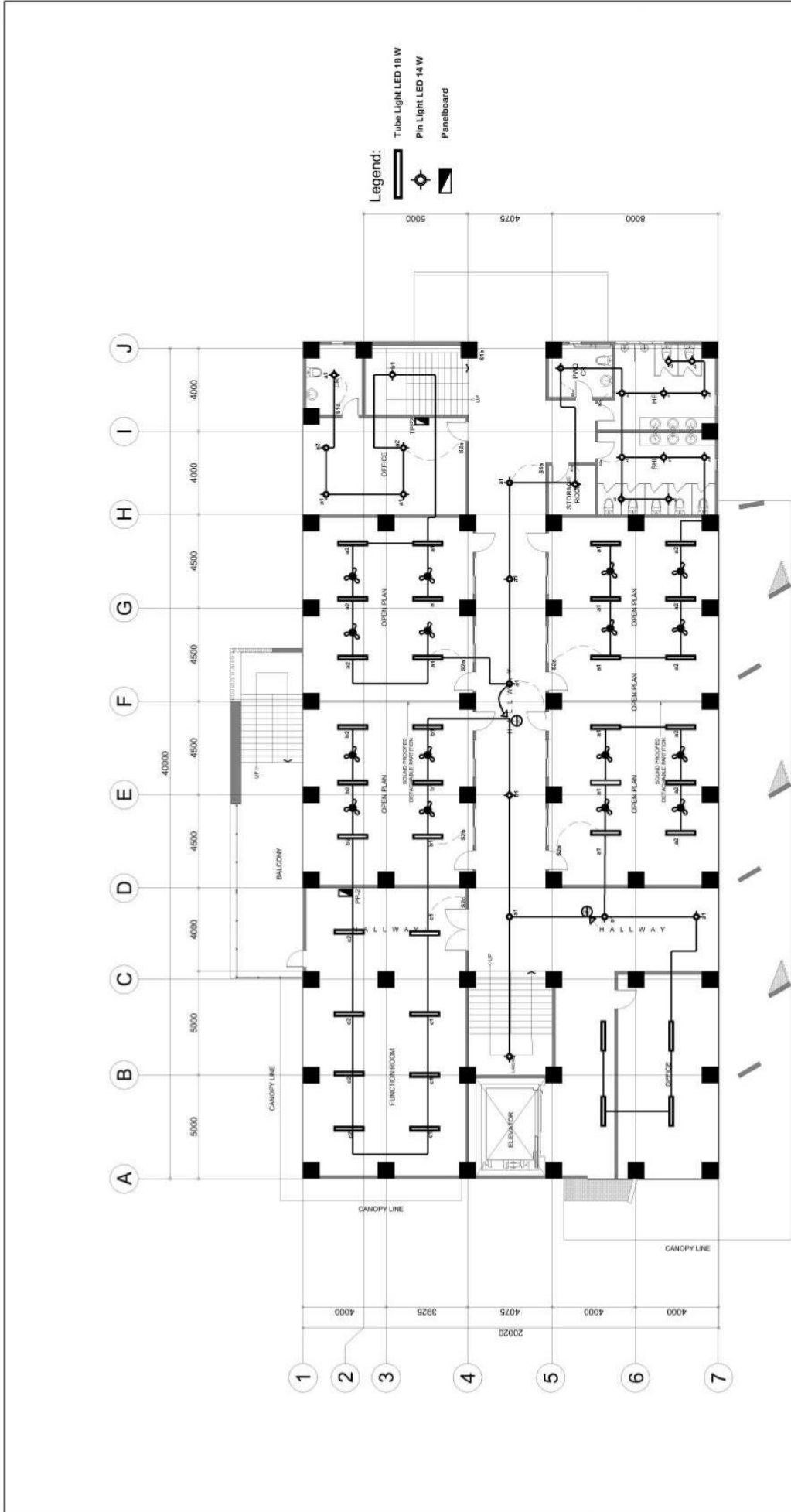## BIDS AND AWARDS COMMITTEE

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SECOND FLOOR LIGHTING LAYOUT PLAN
1:180

Legend:
- Tube Light LED 18 W
- Pin Light LED 14 W
- Panelboard

PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS

PREPARED BY:
ENGR. NOEL M. TIANGA JR.

REVIEWED BY:
ARCH. HANNAH FAITH P. MORTA

APPROVED BY:
MERIAN P. CATAJAY-MANI

SHEET CONTENT: AS SHOWN

SHEET NO: E-2

ROMBLON STATE UNIVERSITY
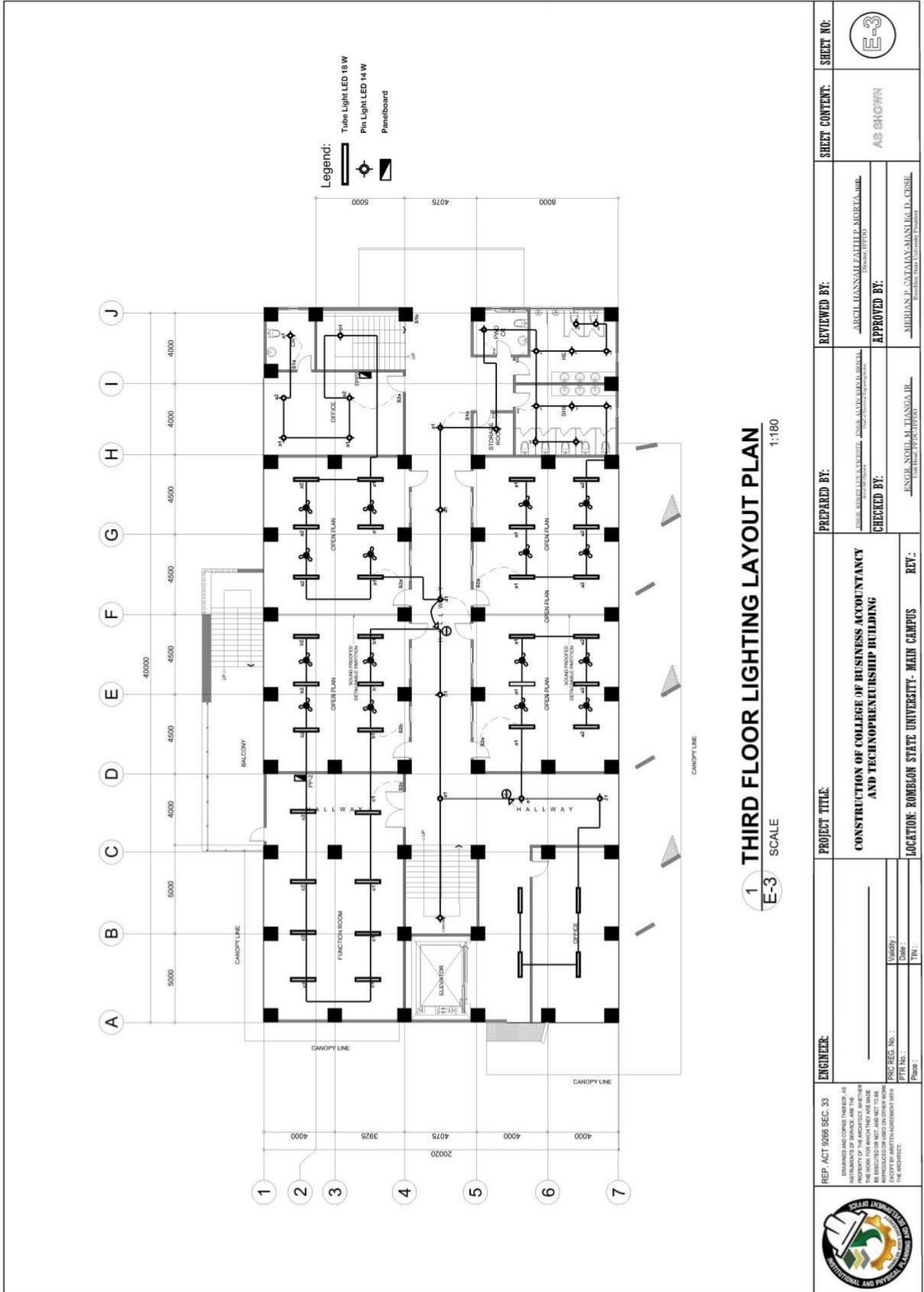## BIDS AND AWARDS COMMITTEE
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Legend:
- Tube Light LED 18 W
- Pin Light LED 14 W
- Panelboard

THIRD FLOOR LIGHTING LAYOUT PLAN
1 E-3 SCALE 1:180

OFFICE
OPEN PLAN
OPEN PLAN
OPEN PLAN
OPEN PLAN
SOUND PROOFED DETACHABLE PARTITION
SOUND PROOFED DETACHABLE PARTITION
STORAGE ROOM
BALCONY
HALLWAY
HALLWAY
FUNCTION ROOM
OFFICE
ELEVATOR
CANOPY LINE

SHEET CONTENT: AS SHOWN
SHEET NO: E-3

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING
LOCATION: ROMBLON STATE UNIVERSITY- MAIN CAMPUS   **REV.:**

ENGINEER:
REP. ACT 9266 SEC. 33
PRC REG No. :
PTR No.:
Place :
Validity :
Date :
TIN :

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PREPARED BY:
ENGR. ROBERTA LUNA VERDEJO, ENGR. ALYX IDREAD BRIVELA

CHECKED BY:
ENGR. NOEL M. TIANGA JR.
Unit Head, PFDU-IPPDO

REVIEWED BY:
ARCH. HANNAH FAITH P. MORTA, uap
Director, IPPDO

APPROVED BY:
MERIAN P. CATAJAY-MANI Ed. D. CESE
Romblon State University President

ROMBLON STATE UNIVERSITY
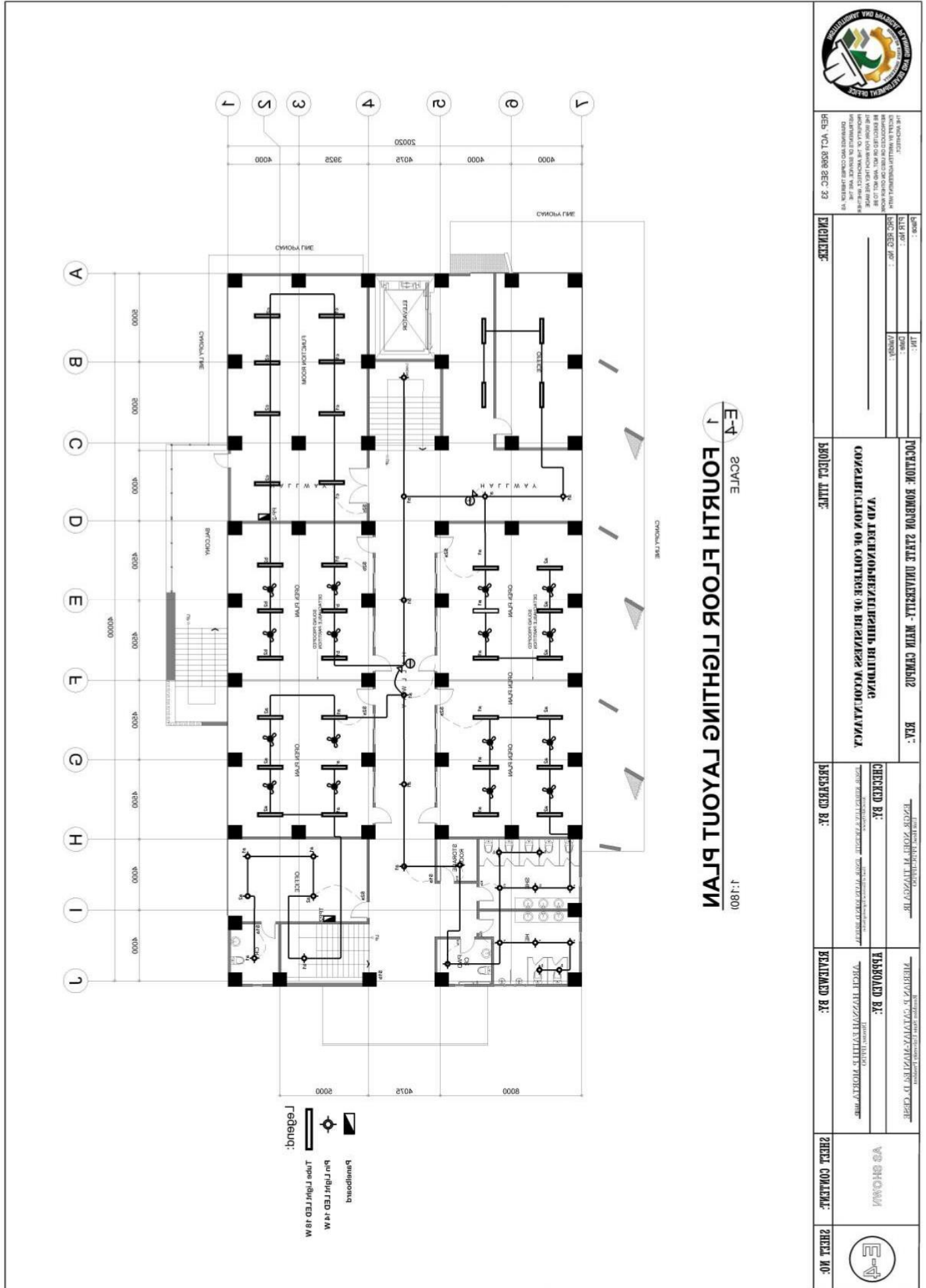### BIDS AND AWARDS COMMITTEE

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FOURTH FLOOR LIGHTING LAYOUT PLAN
SCALE 1:180

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SECOND FLOOR POWER LAYOUT PLAN

SCALE 1:180

ROMBLON STATE UNIVERSITY
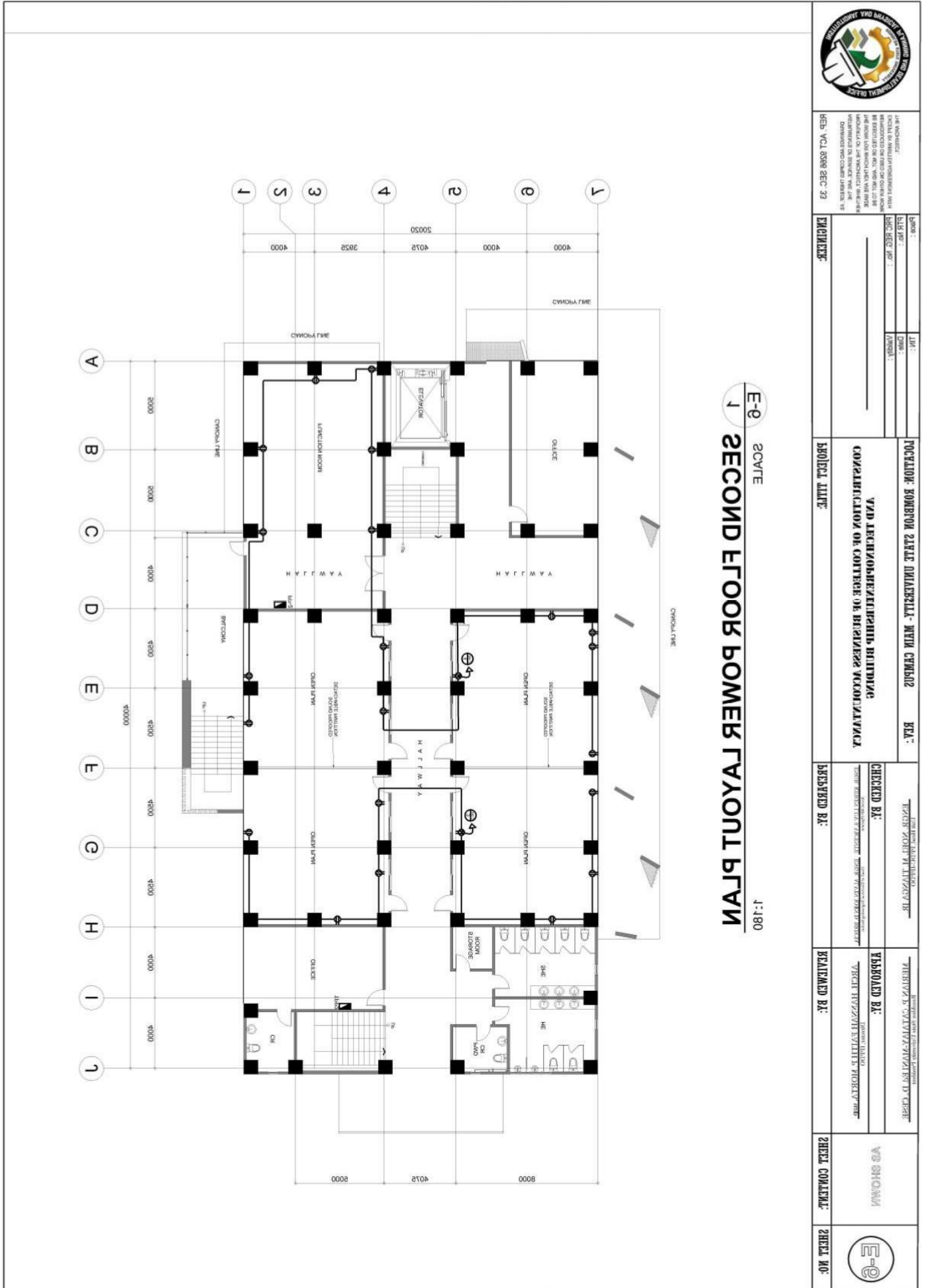### BIDS AND AWARDS COMMITTEE

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GROUND FLOOR POWER LAYOUT PLAN

SCALE 1:180

E-5

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THIRD FLOOR POWER LAYOUT PLAN
1:180

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Website: rsu.edu.ph

FOURTH FLOOR FIRE ALARM LAYOUT

SCALE 1:180

E-20 1

PROJECT TITLE:

CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY
AND TECHNOLOGY-RELATED BUILDING

LOCATION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS

ELEVATION

HALLWAY

ROOM

OFFICE

ROMBLON STATE UNIVERSITY
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THIRD FLOOR FIRE ALARM LAYOUT

SCALE 1:180

E-19

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SECOND FLOOR FIRE ALARM LAYOUT
SCALE 1:180

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GROUND FLOOR FIRE ALARM LAYOUT
SCALE 1:180

ROMBLON STATE UNIVERSITY
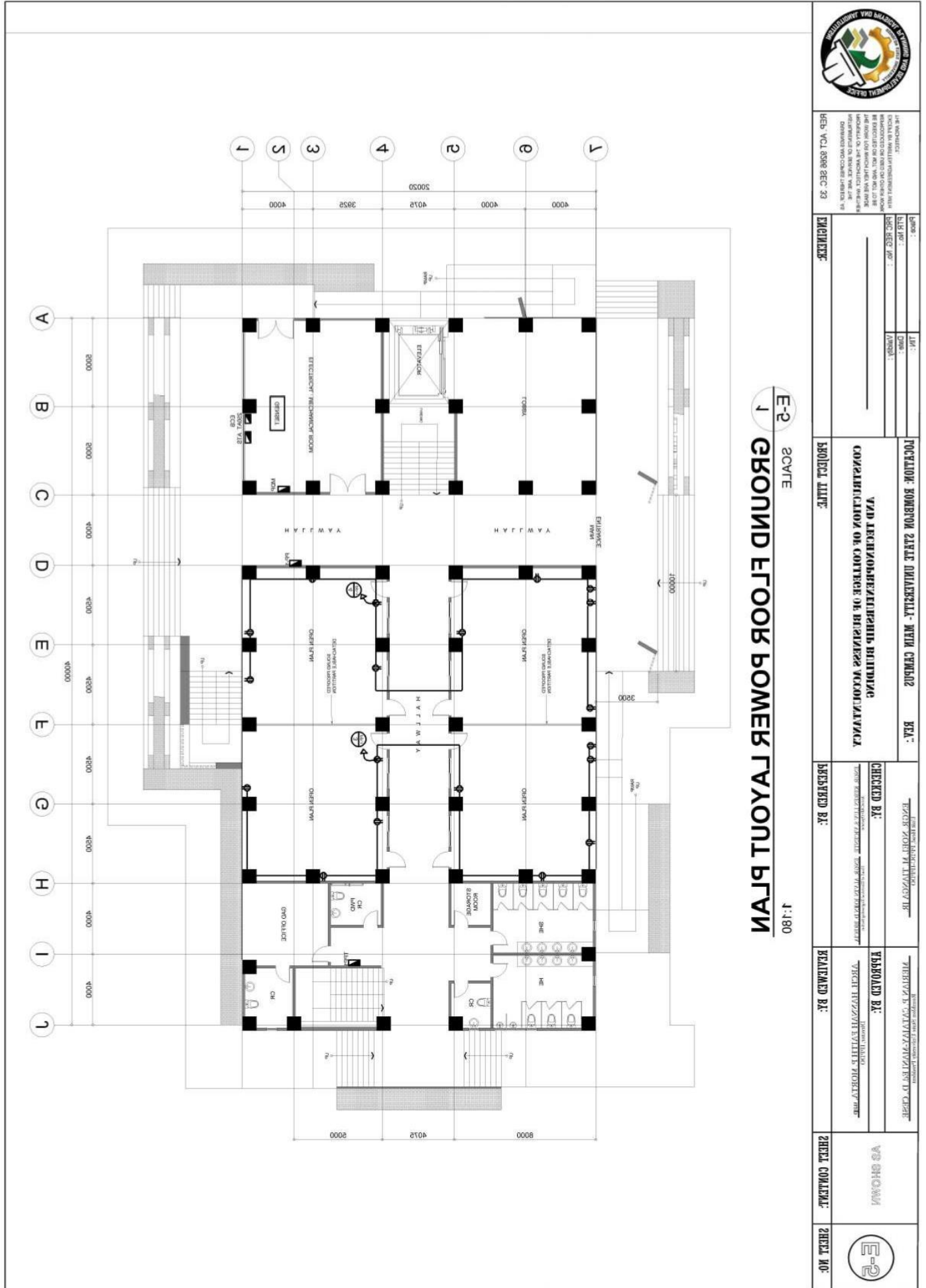## BIDS AND AWARDS COMMITTEE

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FOURTH FLOOR CCTV LAYOUT PLAN

SCALE 1:180

ROMBLON STATE UNIVERSITY
BIDS AND AWARDS COMMITTEE

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THIRD FLOOR LAYOUT PLAN

SCALE 1:180

ROMBLON STATE UNIVERSITY
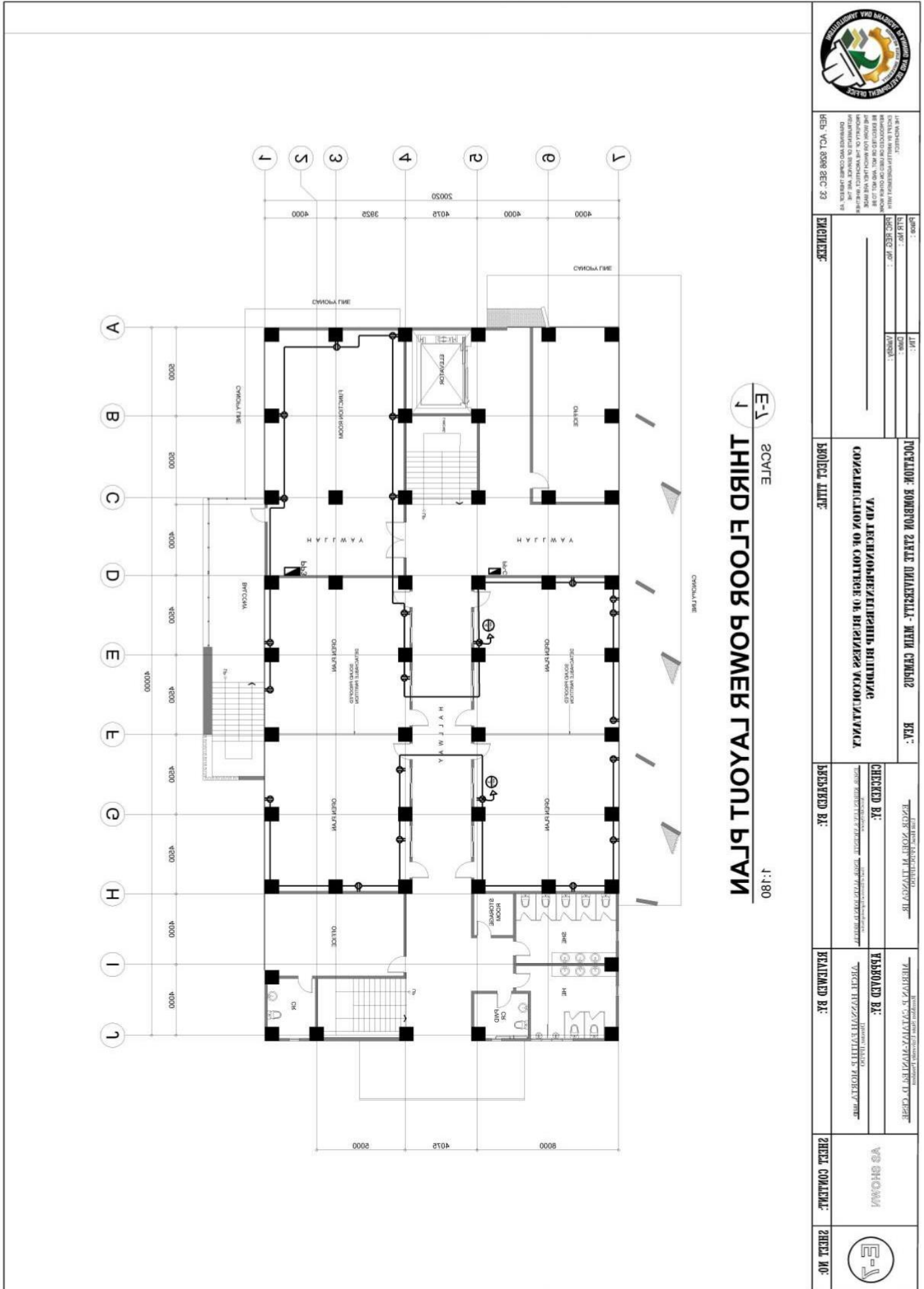## BIDS AND AWARDS COMMITTEE
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SECOND FLOOR CCTV LAYOUT PLAN
1:180

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GROUND FLOOR CCTV LAYOUT PLAN

SCALE 1:80

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FOURTH FLOOR LIGHTING LAYOUT PLAN

EMERGENCY EXIT LIGHT LAYOUT PLAN

SCALE 1:180

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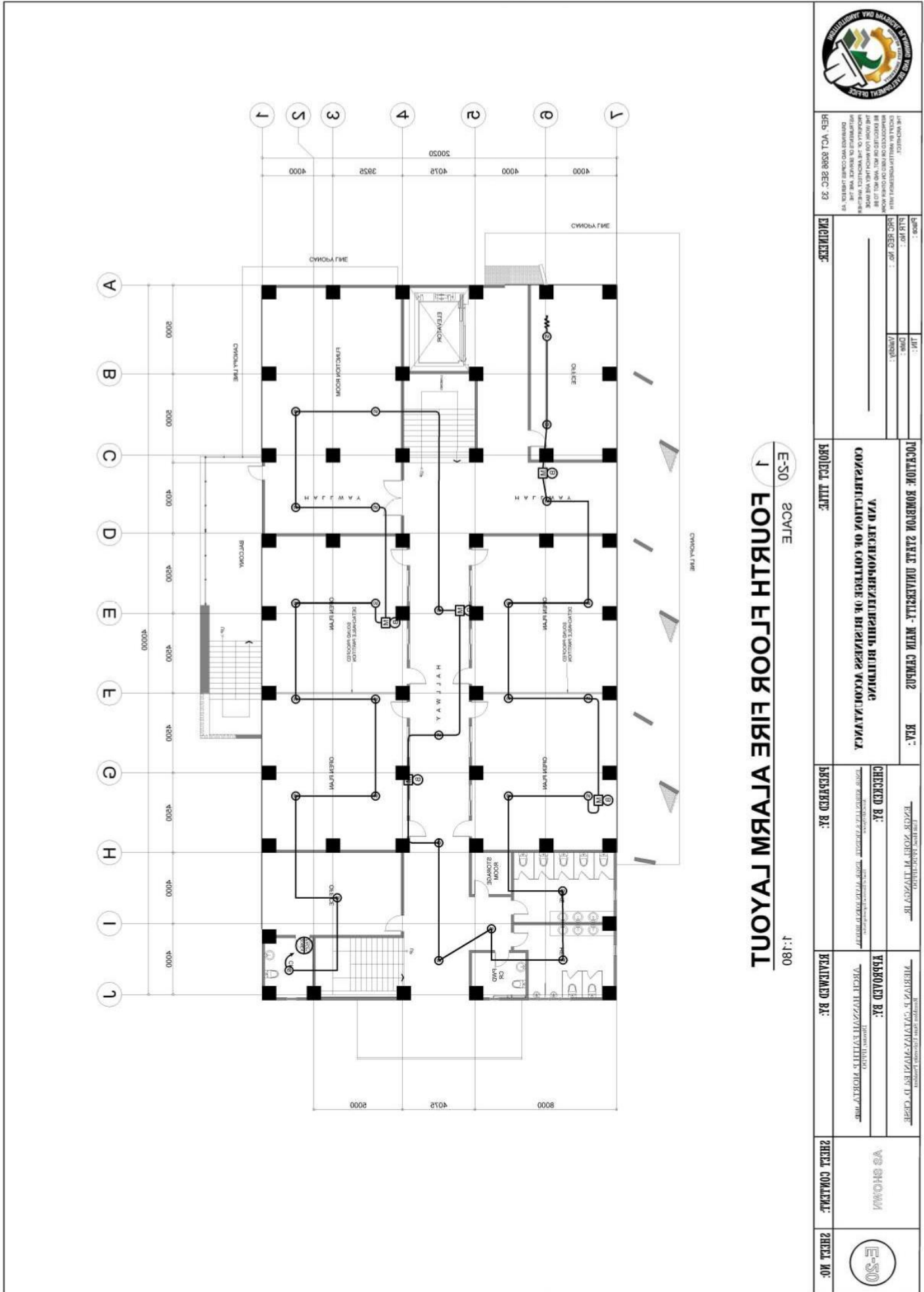# ROMBLON STATE UNIVERSITY
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SECOND FLOOR EMERGENCY\EXIT LIGHT LAYOUT PLAN

SCALE 1:180

E-10

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GROUND FLOOR EMERGENCY/EXIT LIGHT LAYOUT PLAN

ROMBLON STATE UNIVERSITY

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FOURTH FLOOR POWER LAYOUT PLAN

SCALE 1:180

E-8 1

LOCATION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS

PROJECT TITLE: VAD TECHNOPRENEURSHIP BUILDING, CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY

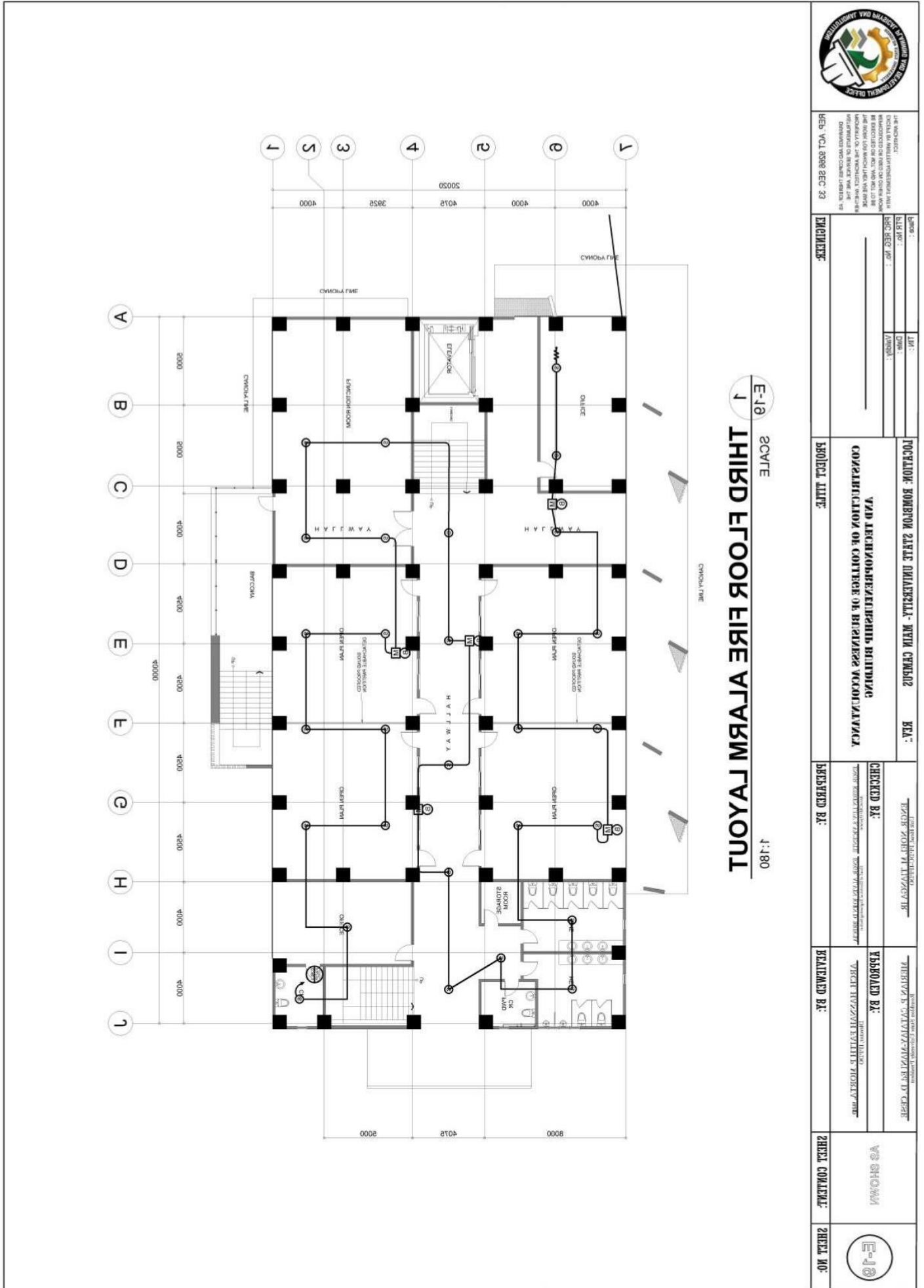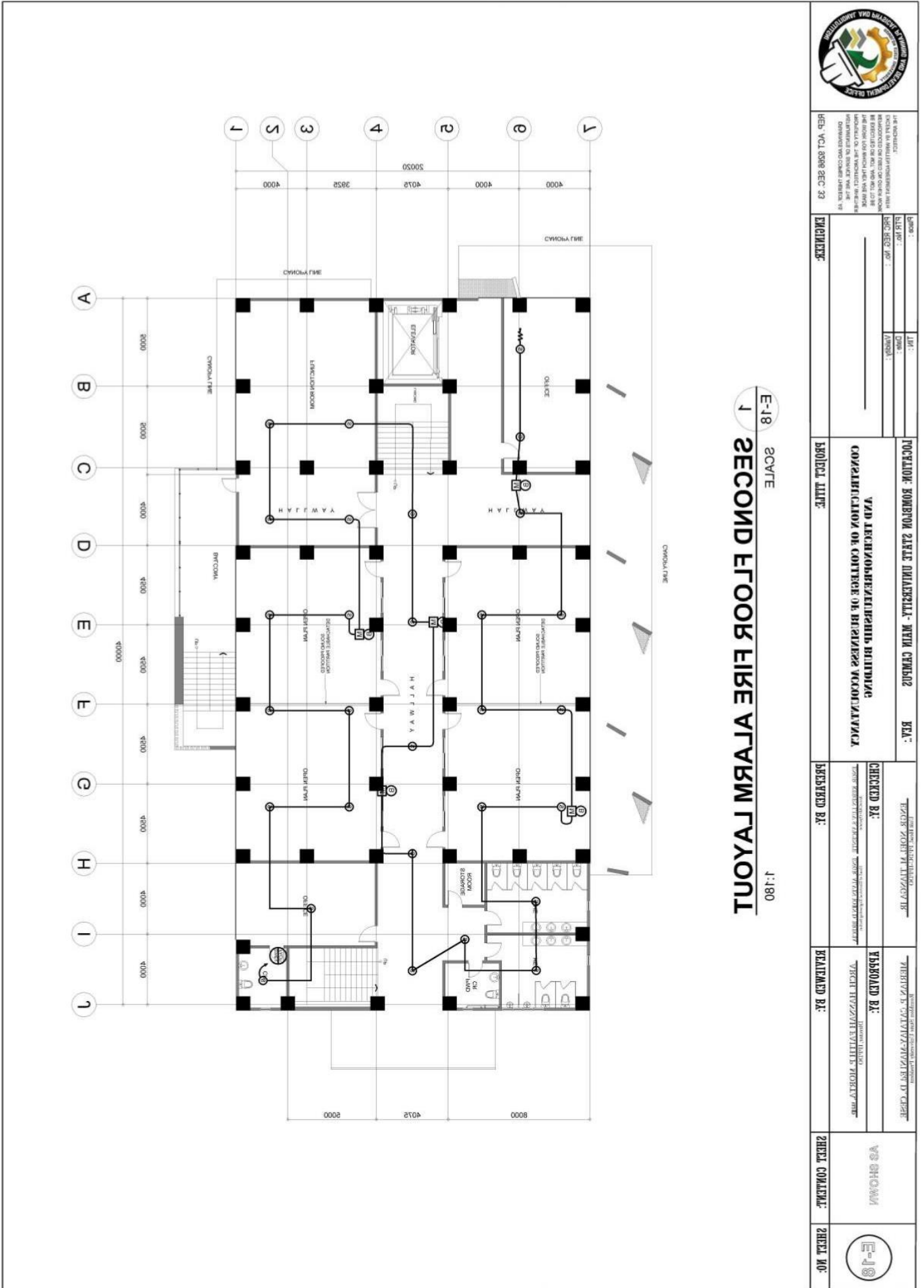# ROMBLON STATE UNIVERSITY
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Romblon State University
PANEL BOARD SCHEDULE

PROJECT: CBAT
DESIGNATION: PP1 (future)
SYSTEM: 400V, 3Ø, 60HZ
MIN. I.C.:

PREPARED BY:
ENCLOSURE: AJB / NEMA 12
MOUNTING: PAD MOUNTED
FEED IN:
OUT:

#	Load Description	LOAD AMPERES 3Ø	ØAN	ØBN	ØCN	VA	CKT. PROTECTION AT	AF	P	CONDUCTOR TYPE	SIZE (mm² x Qty)	GND	RACEWAY SIZE (mmØ)	TYPE	LENGTH (m)	REMARKS
1	Lightings		2.27			524	20	50	1	THHN	2.0 x 2	2.0	15	PVC		
2	Lightings			2		458	20	50	1	THHN	2.0 x 2	2.0	15	PVC		
3	C.O. x 9				7.04	1620	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
4	C.O. x 10				7.82	1800	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
5	Emergency Light			0.24		55	20	50	1	THHN	2.0 x 2	2.0	15	PVC		
7	ACU 2.0hp (phase2)		8.1			1865	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
8	ACU 2.0hp (phase2)		8.1			1865	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
9	ACU 1.5hp (phase1)			6.07		1398	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
10	ACU 2.5hp				10.13	2331	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
11	ACU 2.5hp				10.13	2331	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
12	ACU 2.5hp		10.13			2331	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
13	ACU 2.5hp		10.13			2331	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
14	ACU 2.5hp			10.13		2331	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
15	ACU 2.5hp			10.13		2331	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
16	ACU 2.5hp				10.13	2331	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
17	ACU 2.5hp		10.13			2331	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
18	Fire Alarm Control Panel		4.34			1000	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
19	Spare			4.34		1000	30	50	1	THHN						
20	Space						30	50	1	THHN						
	TOTAL	-	43.07	43.04	45.25	**30,233.00**										

Ic   0+(60) = 60 A
@ 80% DF   60*0.8 = 48 A
If   (48-10.13)+(1.25*10.13) = 50.53A
Icb   (48-10.13)+30 = 67.87 A

Main Breaker : 100 AT.   100 AF.   3 P.   400V V
Feeder : THHN 1-22mm² x 3, + N22mm² +E8.0mm² VIA PVC conduit
Calculation :

USE: 100AF Neutral Bus

ENGINEER:
PRC REG No.:   Validity:
PTR No.:   Date:
Place: TIN:

PREPARED BY: ENGR. REPENTANT'S VICENTE   ENGR. AUTNOISND D. BRECIA — Head of Electrical Engineering Section
CHECKED BY:

REVIEWED BY: ARCH. HANNAH FAITH P. MORTA, uap — Director, IPPDO
ENGR. NOEL M. TIANGA JR. — Unit Head, PPDU-IPPDO

APPROVED BY: MERIAN P. CATAHAY-MANI Ed. D., CESE — Romblon State University President

PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING
LOCATION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS   **REV.:**

SHEET CONTENT: AS SHOWN
SHEET NO: E-21

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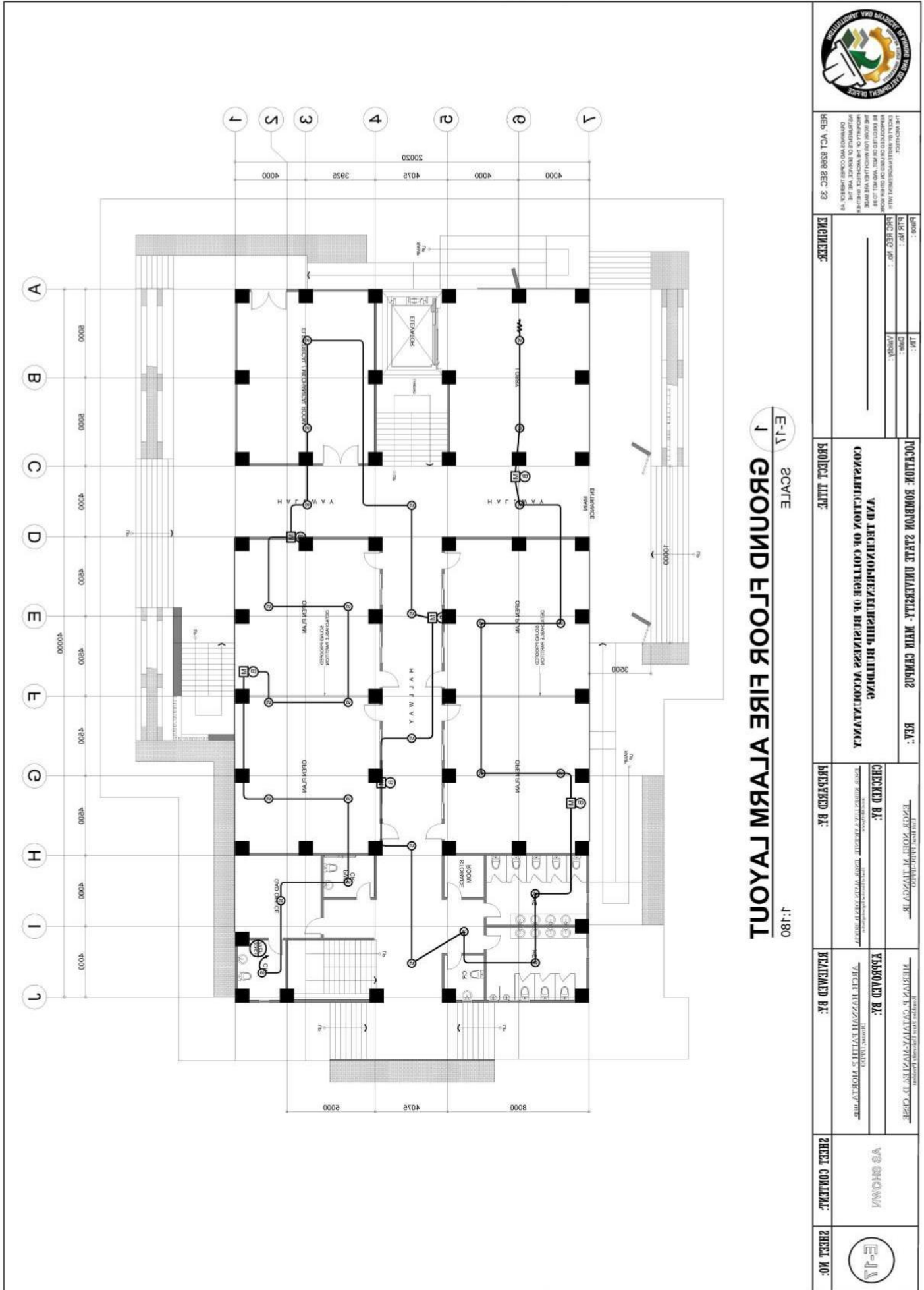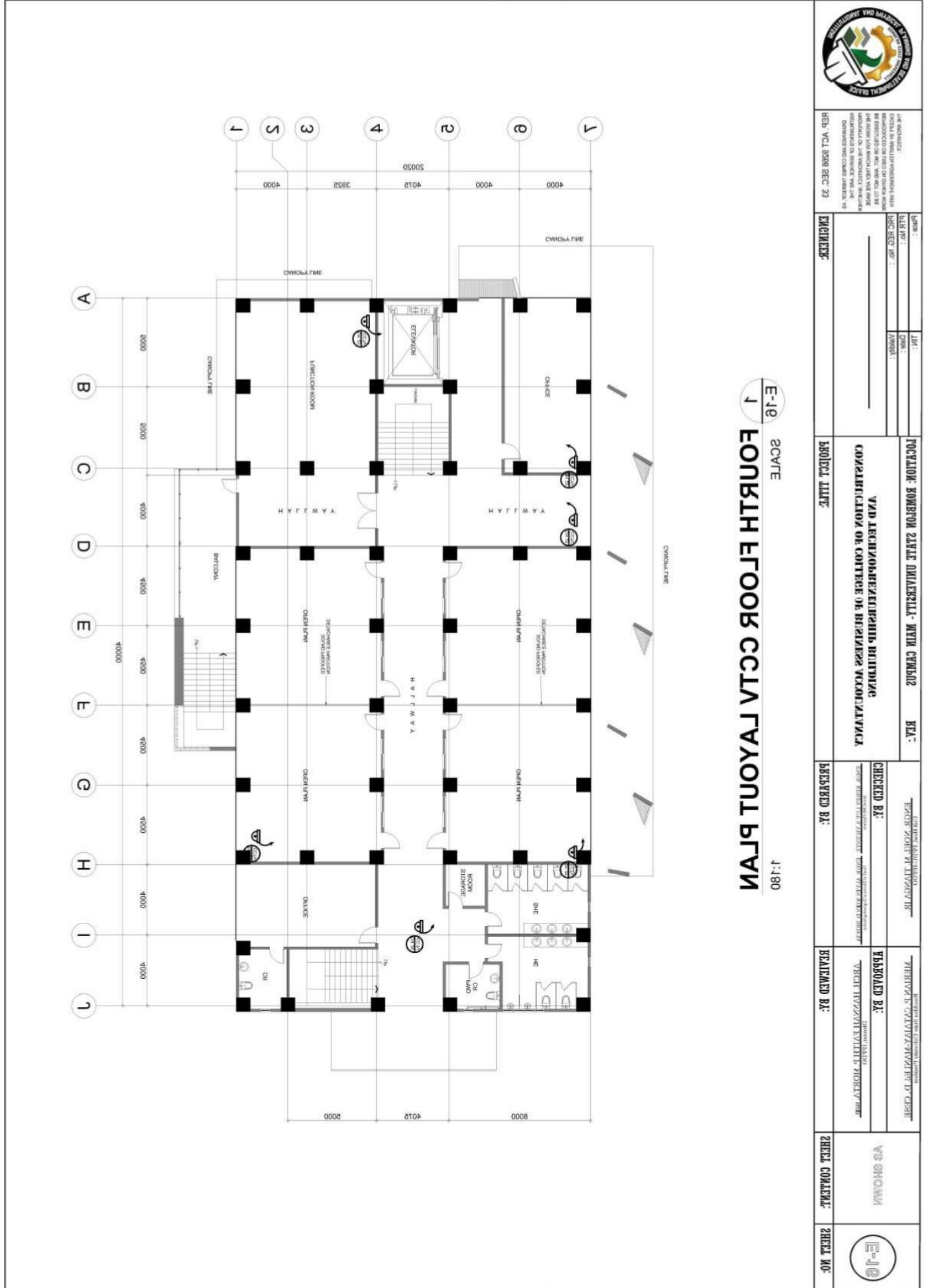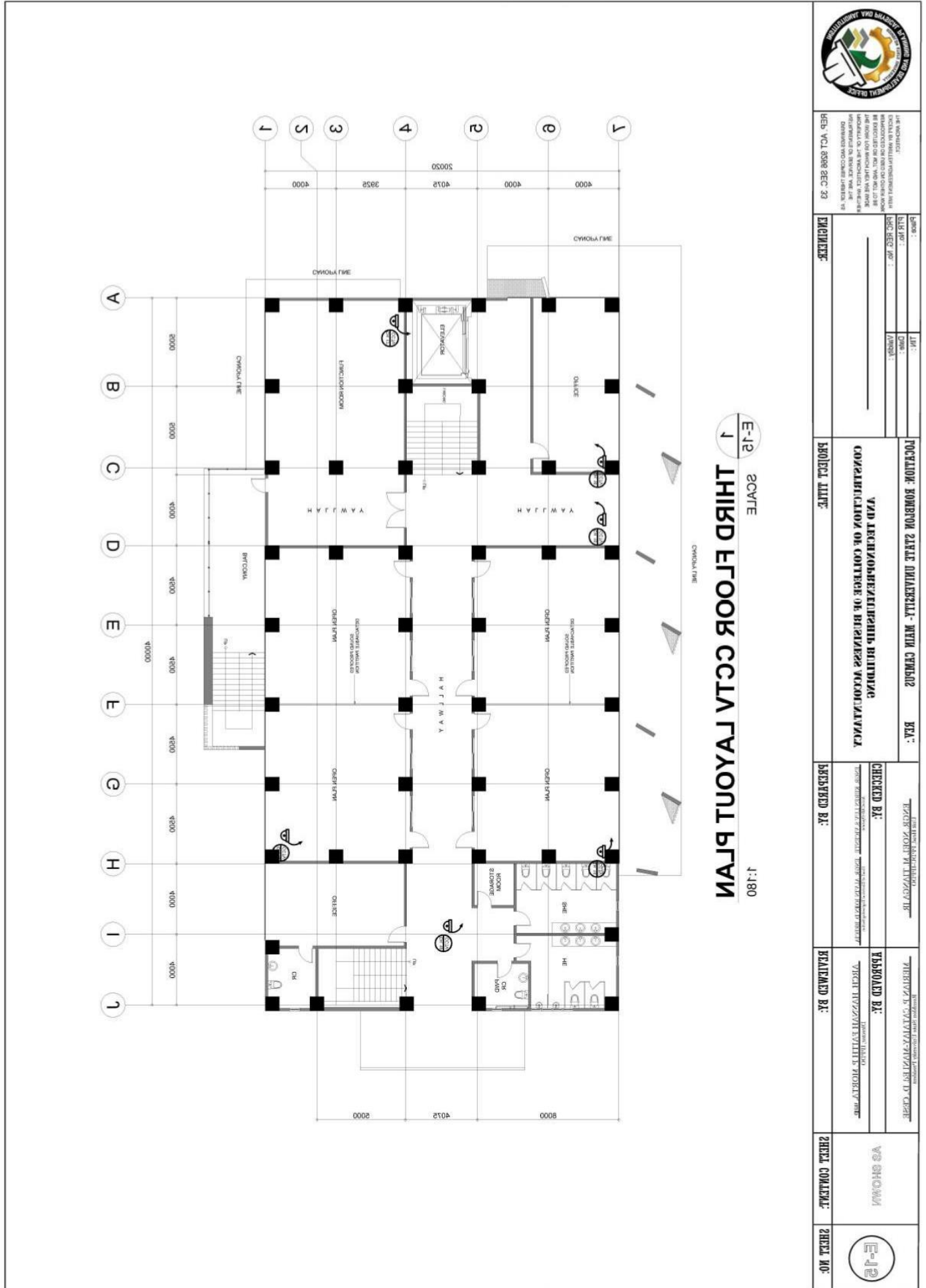## BIDS AND AWARDS COMMITTEE
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Romblon State University
PANEL BOARD SCHEDULE

PROJECT :	CBAT
DESIGNATION:	BUS BAR GUTTER
SYSTEM:	230V, 1∅, 60Hz
MIN. I.C.:	

PREPARED BY:	AJB
ENCLOSURE :	NEMA 12
MOUNTING :	WALL MOUNTED
FEED IN :	
OUT :	

	Load Description	LOAD		CKT. PROTECTION				CONDUCTOR			RACEWAY			REMARKS
		VA	A	AT	AF	P	TYPE	SIZE (mm² x Ø)	GND	SIZE (mm Ø)	TYPE	LENGTH (m)	
1	TPP1	12722	55.28	100	100	2	THHN	22 x 2	8.0	25	PVC		
2	TPP2	12926	56.17	100	100	2	THHN	22 x 2	8.0	25	PVC		
	T O T A L	25,648.00	111.45										

Emergency Breaker	:	150 AT.	150 AF.	2 P. 230 V
Feeder	:	THHN 60mm² x 2, +E14.0 VIA PVC		
Calculation	:			
USE:	150AF bus terminal			

Ic = 111.45A

If 111.45 x 1.25 = 139.31 A
Icb 111.45 x 1.25 = 139.31 A
Total KVA: = 25.64 kVA
@ 80% Transformer Loading Limit: = 32.05 kVA

USE: 1-37.5kVA, 7.6kV/230V, 60Hz single phase pole mounted transformer

ENGINEER:		
REP. ACT 9266 SEC. 33		
PRC REG. No :		Validity:
PTR No. :		Date :
Place:		TIN :

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: ROMBLON STATE UNIVERSITY- MAIN CAMPUS   REV :

PREPARED BY:	REVIEWED BY:
ENGR. KEREN-LYN's VICENTE ENGR. ALVIN GED D. BRECIA *Head of Electrical Engineering Section*	ARCH. HANNAH FAITH P. MORTA, uap *Director, IPPDO*
CHECKED BY:	APPROVED BY:
ENGR. NOEL M. TIANGA JR. *Unit Head, PPDU-IPPDO*	MERIAN P. CATALAY-MANI Ed. D. CESE *Romblon State University President*

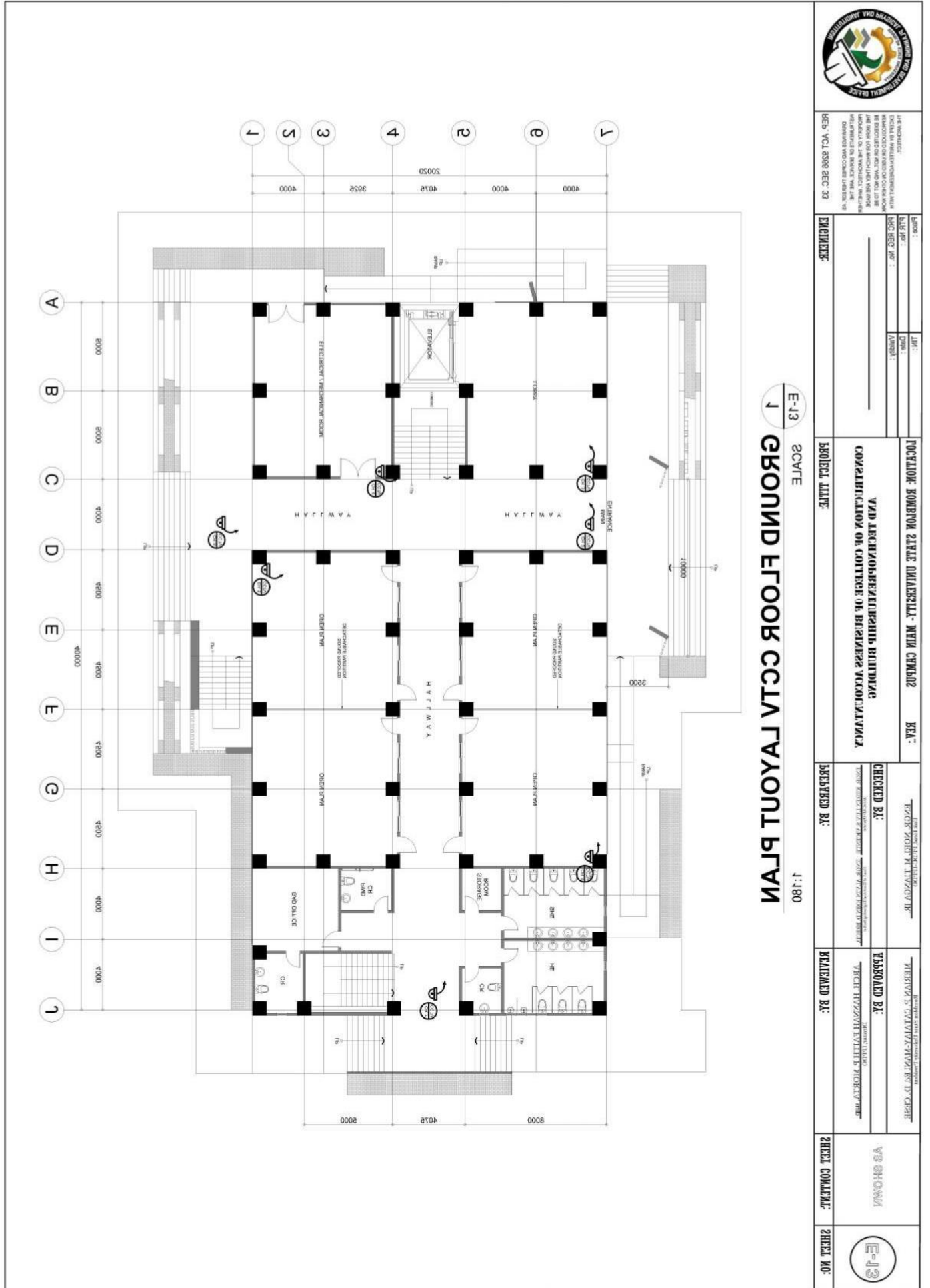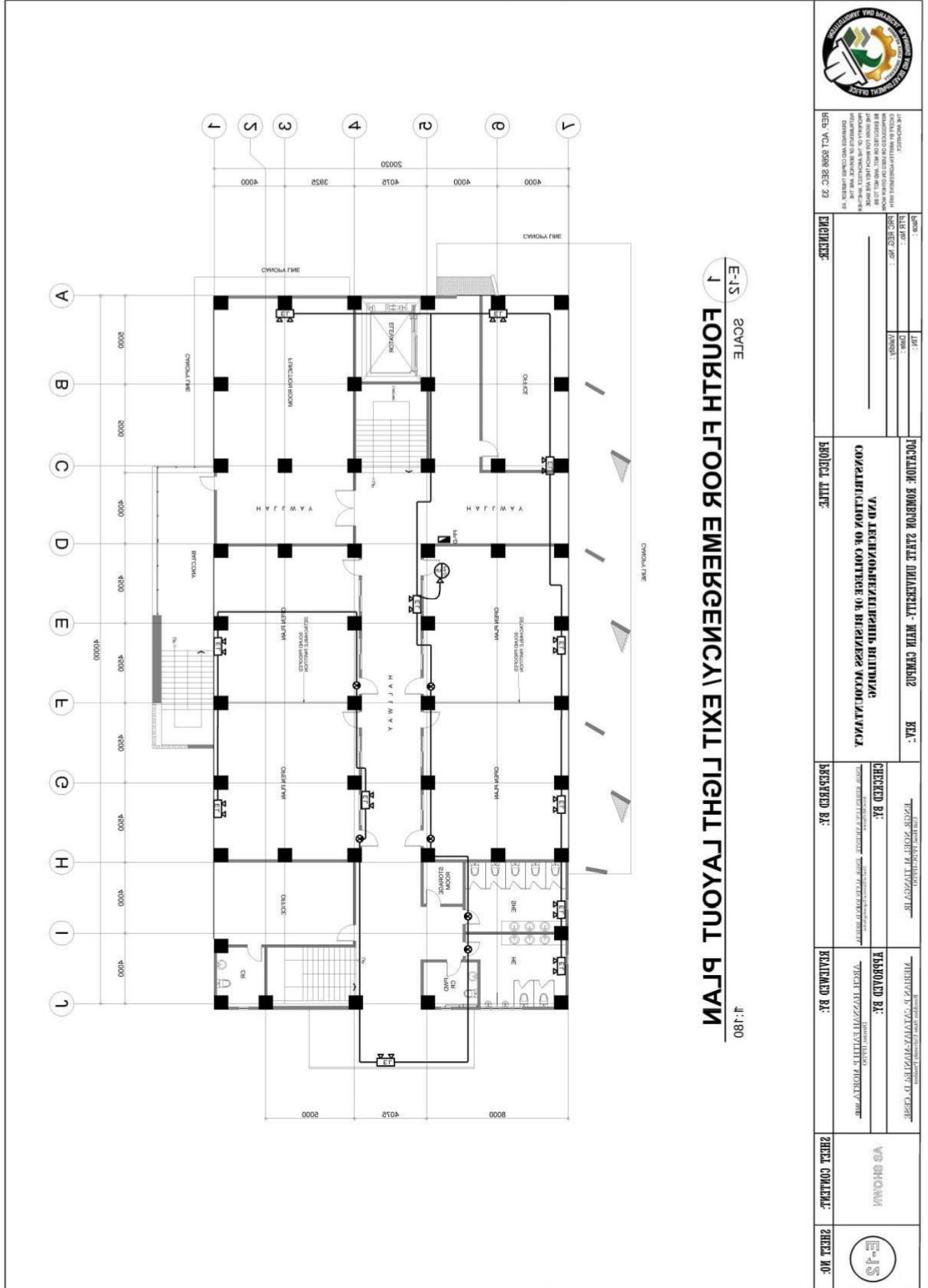| SHEET CONTENT:	SHEET NO:
AS SHOWN	E-28

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www.tuv.com ID 9000018803

Romblon State University
PANEL BOARD SCHEDULE

PROJECT :	CBAT
DESIGNATION:	TPP2
SYSTEM:	230V, 1Ø, 60Hz
MIN. I.C.:	

PREPARED BY:	AJB
ENCLOSURE :	NEMA 12
MOUNTING :	PAD MOUNTED
FEED IN :	
OUT :	

#	Load Description	LOAD		CKT. PROTECTION			CONDUCTOR			RACEWAY			REMARKS
		VA	A	AF	AT	P	TYPE	SIZE (mm² x Øn)	GND	SIZE (mm Ø)	TYPE	LENGTH (m)	
1	Lightings	524	2.28	50	20	2	THHN	2.0 x 2	2.0	15	PVC		
2	C.O. x 9	1620	7.04	50	30	2	THHN	3.5 x 2	2.0	15	PVC		
3	Emergency Lights	60	0.26	50	20	2	THHN	2.0 x 2	2.0	15	PVC		
4	ACU 1.5hp	1398	6.07	50	20	2	THHN	3.5 x 2	2.0	15	PVC		
5	ACU 2.5hp (future)	2331	10.13	50	30	2	THHN	3.5 x 2	2.0	15	PVC		
6	ACU 2.5hp (future)	2331	10.13	50	30	2	THHN	3.5 x 2	2.0	15	PVC		
7	ACU 2.5hp (future)	2331	10.13	50	30	2	THHN	3.5 x 2	2.0	15	PVC		
8	ACU 2.5hp (future)	2331	10.13	50	30	2	THHN	3.5 x 2	2.0	15	PVC		
	T O T A L	12,926.00	56.17										

Main Breaker	:	100 AT. 100 AF. 1 P. 230 V
Feeder	:	THHN 22mm² x 2, +E8.0 VIA PVC
Calculation	:	

Ic		= 56.17A
If	56.17 x 1.25	= 70.875 A
Icb	56.17 x 1.25 + 2.5*10.13	= 96.2 A

PREPARED BY:	REVIEWED BY:
ENGR. KEREFYN U. VICENTE ENGR. ALYN JOHN D. BECSA Head-Electrical Head of Electrical Engineering Section	ARCH. HANNAH FAITH P. MORTA, uap Director, IPPDO
CHECKED BY:	APPROVED BY:
ENGR. NOEL M. TIANGA JR. Unit Head, PPDC/IPPDO	MERIAN P. CATALAY-MANI Ed. D., CESE Romblon State University President

PROJECT TITLE:		
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING		
LOCATION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS		REV.:

ENGINEER:		SHEET CONTENT:	SHEET NO:
PRC REG. No. :	Validity	AS SHOWN	E-27
PTR No. :	Date:		
Place:	TIN:		

INSTITUTIONAL AND PHYSICAL PLANNING AND DEVELOPMENT OFFICE

ROMBLON STATE UNIVERSITY
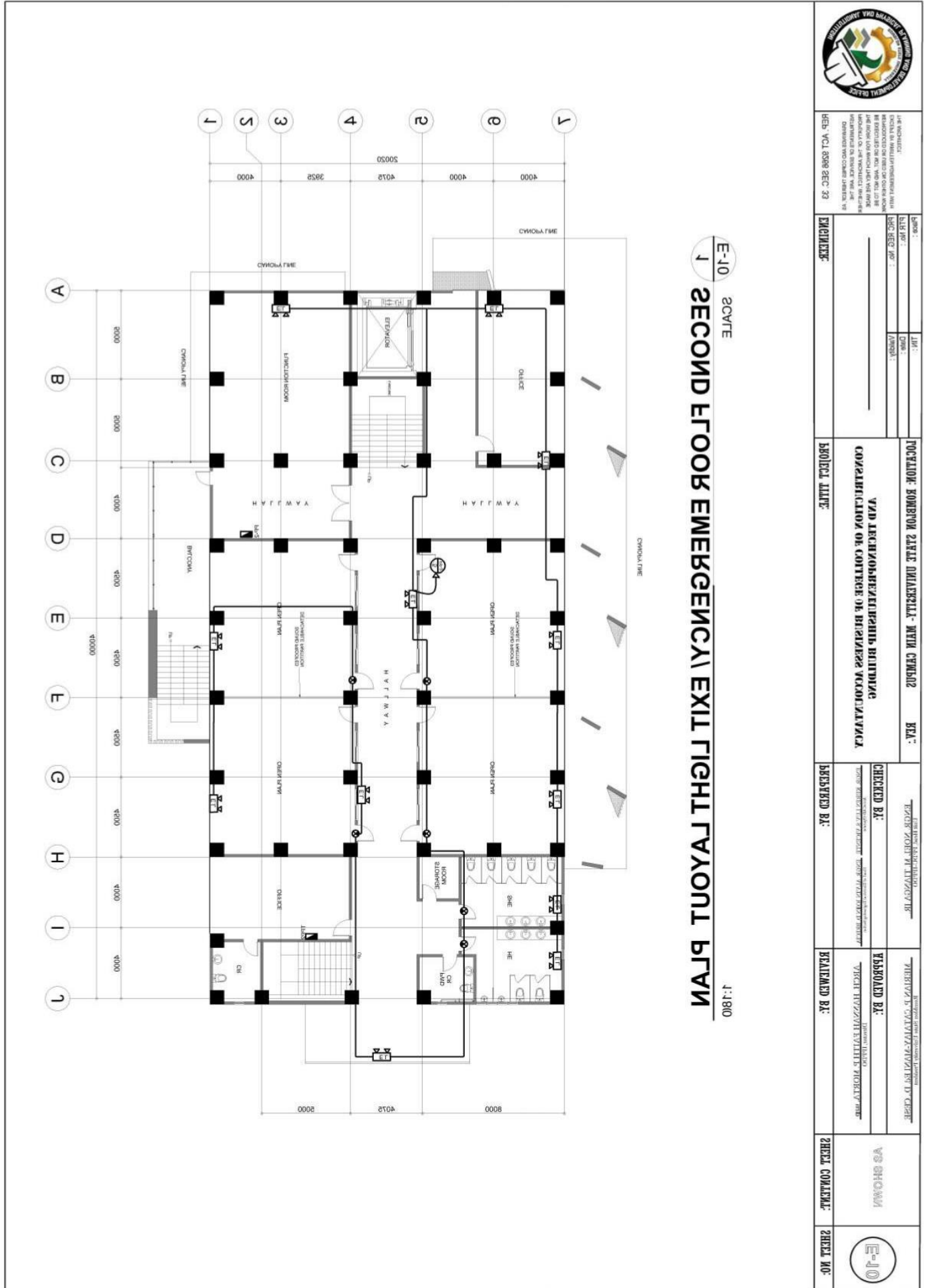## BIDS AND AWARDS COMMITTEE

Community Outreach Center, RSU-Main Campus, Liwanag, Odiongan, Romblon 5505
Telephone: (042) 567-5952
Email: bac@rsu.edu.ph
Website: rsu.edu.ph

Management System
ISO 9001:2015
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ID 9000018803

Romblon State University
PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: TPP1
SYSTEM: 230V, 1Ø, 60Hz
MIN. I.C.:

PREPARED BY: AJB
ENCLOSURE : NEMA 12
MOUNTING : PAD MOUNTED
FEED   IN :
**   OUT :**

	Load Description	LOAD		CKT. PROTECTION				CONDUCTOR			RACEWAY			REMARKS
		VA	A	AT	AF	P	TYPE	SIZE (mm² x Qty)	GND	SIZE (mm Ø)	TYPE	LENGTH (m)	
1	Lightings	500	2.17	20	50	2	THHN	2.0 x 2	2.0	15	PVC		
2	C.O. x 8	1440	6.26	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
3	Emergency Lights	60	0.26	20	50	2	THHN	2.0 x 2	2.0	15	PVC		
4	ACU 1.5hp	1398	6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC		
5	ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
6	ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
7	ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
8	ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
	T O T A L	**12,722.00**	**55.28**										

Main Breaker :   100 AT.   100 AF.   1 P.   230 V
Feeder :   THHN 22mm² x 2, +E8.0 VIA PVC
Calculation :

Ic   = 55.28A

If   55.28 x 1.25   = 69.1 A
Icb   55.28 x 1.25 + 2.5*10.13   = 94.43 A

PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: ROMBLON STATE UNIVERSITY- MAIN CAMPUS   **REV.:**

PREPARED BY:
ENGR. KEREN JOY N. VICENTE   ENGR. ANTON JOHN D. BRISCIA
Ace2CE Center   Head of Electrical Engineering Section
CHECKED BY:
ENGR. NOEL M. TIANGA JR.
Unit Head, PPDC-IPPDO

REVIEWED BY:
ARCH. HANNAH FAITH P. MORTA, uap
Director, IPPDO
APPROVED BY:
MERIAN P. CATALJAV-MANI Ed. D., CESE
Romblon State University President

SHEET CONTENT: AS SHOWN
SHEET NO: E-26

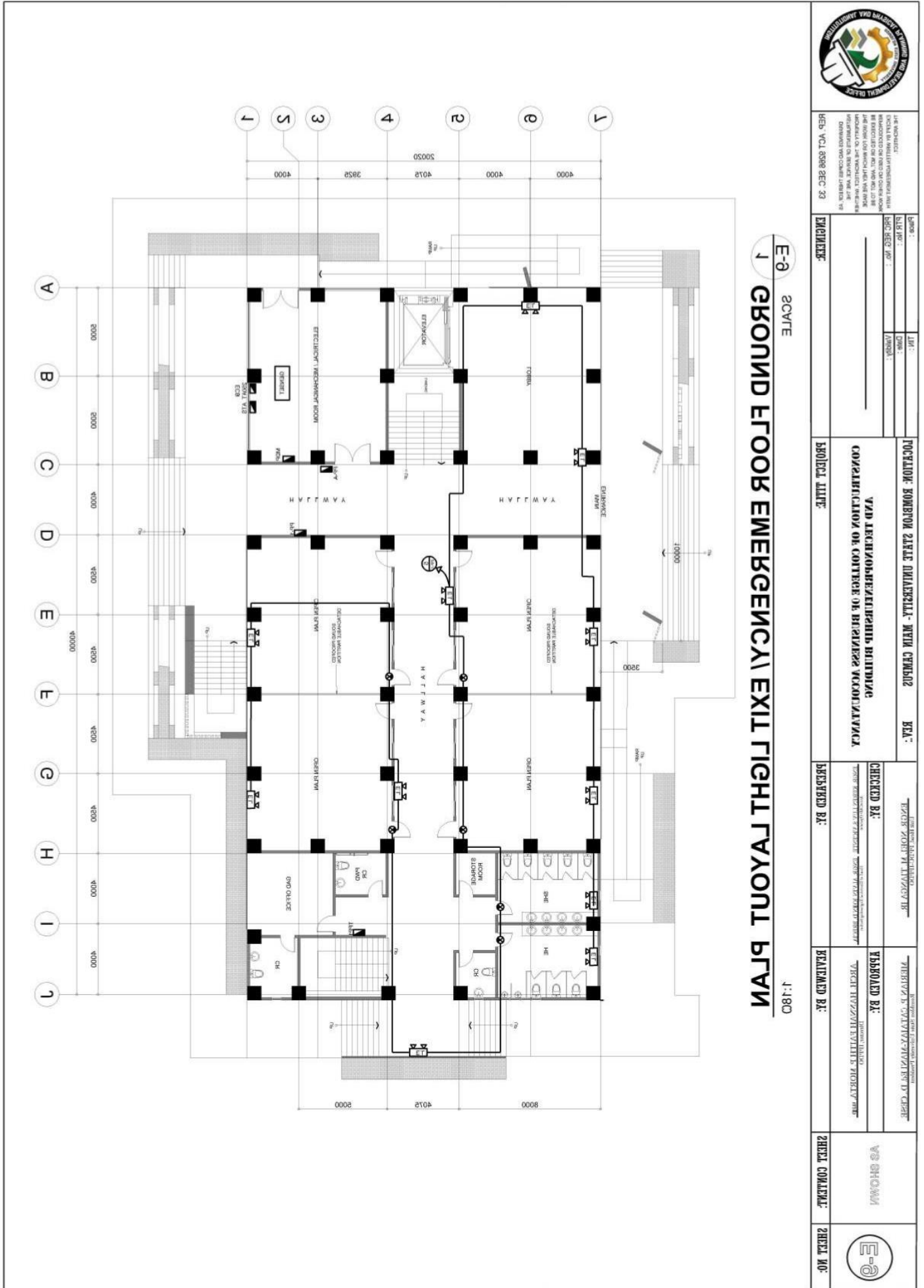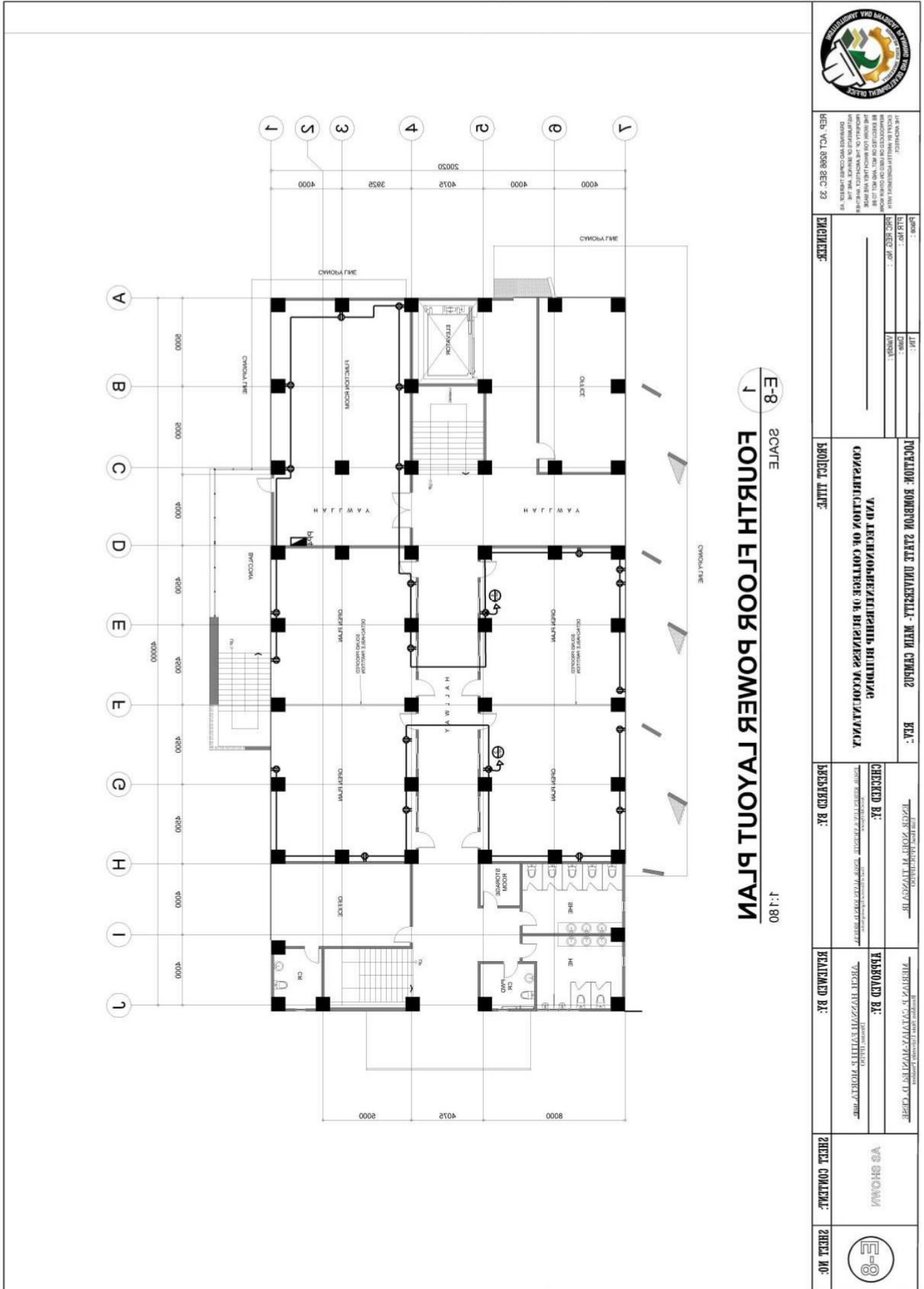# ROMBLON STATE UNIVERSITY
BIDS AND AWARDS COMMITTEE

Community Outreach Center, RSU-Main Campus, Liwanag, Odiongan, Romblon 5505
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Romblon State University
PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: MDP (future)
SYSTEM: 400V, 3Ø, 60HZ
MIN. I.C.:

PREPARED BY:
ENCLOSURE : AJB / NEMA 12
MOUNTING : PAD MOUNTED
FEED IN :
OUT :

#	Load Description	Total (VA)	LOAD AMPERES 3Ø	ØAN	ØBN	ØCN	CKT. PROTECTION AT	AF	P	CONDUCTOR TYPE	SIZE (mm²x Ω)	GND	RACEWAY SIZE (mm Ø)	TYPE	LENGTH (m)	REMARKS
1	PP1	30,233.00	0	43.07	43.03	45.25	100	110	3	THHN	22 x 4	8.0	15	PVC		
2	PP2	33,662.00	0	50.99	47.05	50.56	100	110	3	THHN	22 x 4	8.0	15	PVC		
3	PP3	37,424.00	0	58.89	50.8	52.87	100	110	3	THHN	22 x 4	8.0	15	PVC		
5	PP4	38,394.00	0	58.94	51.28	56.77	100	110	3	THHN	22 x 4	8.0	15	PVC		
6	Elevator	20,000.00	28.86				60	60	3	THHN	8.0 x 4	3.5	15	PVC		
7	Fire Pump (jockey)	1865			8.11		30	30	1	THHN	3.5 x 2	2.0	15	PVC		
8	water pump	2500			10.86		30	30	1	THHN	3.5 x 2	2.0	15	PVC		
9	Sparc	1500				6.52	30	30	3	THHN						
10	Space							30	3	THHN						
	T O T A L	**165,578.00**	**28.86**	**211.89**	**211.13**	**211.97**										

Ic = 28.86+(211.97) = 240.83 A
@ 80% DF
240.83*0.8 = 192.66 A
If = (192.66-58.94)+(1.25*58.94) = 207.39 A
Icb = (192.66-58.94)+100 = 233.72 A

total kVA: = 165.57 kVA

@ 80% Demand Factor: = 132.45 kVA
@ 80% TR Loading Limit: = 165.57 kVA
@ 70% Genset Loading Limit: = 236.52 kVA

Main Breaker : 250 AT. 250 AF. 3 P.
Feeder : THHN 1-125mm² x 3, + N125mm² +E22mm² VIA PVC Conduit
Calculation : 400 V

USE: 250AF Neutral Bus Terminal

USE: 200KVA, 13.2kV/400V 3 phase with neutral, Pad mounted cabinet type oil immersed transformer
250KVA, 400V/230V,3 phase, 60Hz, Silent Type Diesel Generator

ENGINEER:
PRC REG. No.:
PTR No.:
Place:
Validity:
Date:
TIN:

PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: ROMBLON STATE UNIVERSITY- MAIN CAMPUS

REV.:

PREPARED BY: ENGR. KERENT LYN I. VICENTE / ENGR. ALVIN JOEN D. BRECIA, Head of Physical Planning Section
CHECKED BY: ENGR. NOEL M. TIANGA JR., Unit Head, PPDO/IPPDO
REVIEWED BY: ARCH. HANNAH FAITH P. MORTA, uap, Director, IPPDO
APPROVED BY: MERIAN P. CATALAY-MANI Ed. D., CESE, Romblon State University President

SHEET CONTENT: AS SHOWN
SHEET NO: E-25

ROMBLON STATE UNIVERSITY
BIDS AND AWARDS COMMITTEE
Community Outreach Center, RSU-Main Campus, Liwanag, Odiongan, Romblon 5505
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Email: bac@rsu.edu.ph
Website: rsu.edu.ph

Management System
ISO 9001:2015
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Romblon State University
PANEL BOARD SCHEDULE

PROJECT:		PREPARED BY:	AJB
DESIGNATION:	CBAT / PP4 (future)	ENCLOSURE:	NEMA 12
SYSTEM:	400V, 3Ø, 60HZ	MOUNTING:	PAD MOUNTED
MIN. I.C.:		FEED IN: / OUT:	

#	Load Description	LOAD VA	3Ø	ØAN	ØBN	ØCN	AT	AF	P	TYPE	SIZE (mm² x Ø)	GND	SIZE (mmØ)	TYPE	LENGTH (m)	REMARKS
1	Lightings	510		2.22			20	50	1	THHN	2.0 x 2	2.0	15	PVC		
2	Lightings	516			2.4		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
3	C.O. x8	1440				6.3	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
4	C.O. x15	2700				11.7	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
5	Emergency Lights	60			0.26		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
6	ACU 2.0hp	1865		8.1			20	50	1	THHN	3.5 x 2	2.0	15	PVC		
7	ACU 2.0hp	1865		8.1			20	50	1	THHN	3.5 x 2	2.0	15	PVC		
8	ACU 2.0hp	1865			8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
9	ACU 2.0hp	1865				8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
10	ACU 1.5hp	1398				6.07	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
11	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
12	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
13	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
14	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
15	ACU 2.5hp	2331				10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
16	ACU 2.5hp	2331				10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
17	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
18	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
19	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
20	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
11	Spare	1000				4.34	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
12	Space							50	1							
	TOTAL	**38,394.00**	-	**58.94**	**51.28**	**56.77**										

Ic 0+(58.94) = 58.94 A
@ 80% DF 58.94*0.8 = 47.15 A

If (47.15-10.13)+(1.25*10.13) = 49.68A
Icb (47.15-10.13)+30 = 67.02 A

Main Breaker	:	100 AT. 100 AF. 3 P. 400V V
Feeder	:	THHN 1-22mm² x 3, + N22mm² +E8.0mm² VIA PVC conduit
Calculation	:	

USE: 100AF Neutral Bus

REP. ACT 9266 SEC. 33

PROJECT TITLE: **CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING**   REV.-

LOCATION: **ROMBLON STATE UNIVERSITY- MAIN CAMPUS**

PREPARED BY: ENGR. KEREN LYN S. VICENTE — Aecl/Mo ...
CHECKED BY: ENGR. ALVIN LORD D. BRECIA — Head of Electrical Engineering Section

REVIEWED BY: ARCH. HANNAH FAITH P. MORTA, uap — Director, IPPDO
APPROVED BY:
ENGR. NOEL M. TIANGA JR. — Unit Head, PPDC-IPPDO
MERIAN P. CATALAY-MANI Ed D., CESE — Romblon State University President

ENGINEER:
PRC REG No.:
PTR No.:
Place:
Validity:
Date:
TIN:

SHEET CONTENT: AS SHOWN
SHEET NO: E-24

Romblon State University
PANEL BOARD SCHEDULE

PROJECT: CBAT
DESIGNATION: PP3 (future)
SYSTEM: 400V, 3Ø, 60HZ
MIN. I.C.:

PREPARED BY: AJB
ENCLOSURE: NEMA 12
MOUNTING: PAD MOUNTED
FEED IN:
OUT:

	Load Description	LOAD VA	3Ø	ØAN	ØBN	ØCN	AT	AF	P	TYPE	SIZE (mm² Øn)	GND	RACEWAY SIZE (mm Ø)	TYPE	LENGTH (m)	REMARKS
1	Lightings	500		2.17			20	50	1	THHN	2.0 x 2	2.0	15	PVC		
2	Lightings	456			1.98		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
3	C.O. x8	1440				6.3	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
4	C.O. x10	1800				7.8	30	50	1	THHN	3.5 x 7	2.0	15	PVC		
5	Emergency Light	60			0.2		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
6	ACU 2.0hp	1865		8.1			20	50	1	THHN	3.5 x 2	2.0	15	PVC		
7	ACU 2.0hp	1865		8.1			20	50	1	THHN	3.5 x 2	2.0	15	PVC		
8	ACU 2.0hp	1865			8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
9	ACU 2.0hp	1865				8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
10	ACU 1.5hp	1398				6.07	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
11	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
12	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
13	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
14	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
15	ACU 2.5hp	2331				10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
16	ACU 2.5hp	2331				10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
17	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
18	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
19	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
20	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
11	Spare	1000				4.34	30	50	1							
12	Space							50	1							
	TOTAL	**37,424.00**	-	**58.89**	**50.80**	**52.87**										

Ic 0+(58.89) = 58.89 A
@ 80% DF
58.89*0.8 = 47.11 A
If (47.11-10.13)+(1.25*10.13) = 49.64A
Icb (47.11-10.13)+30 = 66.98 A

Main Breaker : 100 AT. 100 AF. 3 P. 400V V
Feeder : THHN 1-22mm² x 3, + N22mm² +E8.0mm² VIA PVC conduit
Calculation :

USE: 100AF Neutral Bus

SHEET NO: E-23

SHEET CONTENT: AS SHOWN

PREPARED BY: ENGR. KERENT V. VICENTE
CHECKED BY: ENGR. ALVIN JOHN D. BRECIA, Head of Electrical Engineering Section
REVIEWED BY: ARCH. HANNAH FAITH P. MORTA, uap, Director, IPPDO
APPROVED BY: MERIAN P. CATAJAY-MANI Ed.D., CESE, Romblon State University President

PREPARED BY: ENGR. NOEL M. TIANGA JR., Unit Head, PPDC/IPPDO

PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING
LOCATION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS
REV.:

ENGINEER:
REP. ACT 9266 SEC. 33
PRC REG. No.:
PTR No.:
Place:
Validity
Date
TIN

INSTITUTIONAL AND PHYSICAL PLANNING AND DEVELOPMENT OFFICE

Serving with Honor and Excellence!

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Email: bac@rsu.edu.ph
Website: rsu.edu.ph

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Romblon State University
PANEL BOARD SCHEDULE

PROJECT :	CBAT	PREPARED BY:	AJB
DESIGNATION:	PP2 (future)	ENCLOSURE :	NEMA 12
SYSTEM:	400V, 3Ø, 60HZ	MOUNTING :	PAD MOUNTED
MIN. I.C.:		FEED IN: / OUT:	

#	Load Description	VA	LOAD AMPERES 3Ø	ØAN	ØBN	ØCN	CKT. PROTECTION AT	AF	P	TYPE	CONDUCTOR SIZE (mm²x Ohm)	GND	TYPE	RACEWAY SIZE (mmØ)	TYPE	LENGTH (m)	REMARKS
1	Lightings	500		2.17			20	50	1	THHN	2.0 x 2	2.0		15	PVC		
2	Lightings	456			1.98		20	50	1	THHN	2.0 x 2	2.0		15	PVC		
3	C.O. x8	1440				6.3	30	50	1	THHN	3.5 x 2	2.0		15	PVC		
4	C.O. x7	1260				7.8	30	50	1	THHN	3.5 x 2	2.0		15	PVC		
5	C.O. x8	1440			6.3		30	50	1	THHN	3.5 x 2	2.0		15	PVC		
6	Emergency Lights	60		0.2			20	50	1	THHN	2.0 x 2	2.0		15	PVC		
7	ACU 2.0hp	1865		8.1			20	50	1	THHN	3.5 x 2	2.0		15	PVC		
8	ACU 2.0hp	1865			8.1		20	50	1	THHN	3.5 x 2	2.0		15	PVC		
9	ACU 2.0hp	1865				8.1	20	50	1	THHN	3.5 x 2	2.0		15	PVC		
10	ACU 1.5hp	1398			6.07		20	50	1	THHN	3.5 x 2	2.0		15	PVC		
11	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0		15	PVC		
12	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0		15	PVC		
13	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0		15	PVC		
14	ACU 2.5hp	2331				10.13	30	50	1	THHN	3.5 x 2	2.0		15	PVC		
15	ACU 2.5hp	2331				10.13	30	50	1	THHN	3.5 x 2	2.0		15	PVC		
16	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0		15	PVC		
17	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0		15	PVC		
18	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0		15	PVC		
19	Spare	1000			4.34		30	50	1	THHN	3.5 x 2	2.0		15	PVC		
20	Space							50	1								
	TOTAL	33,662.00	-	50.99	47.05	50.56											

Ic	0+(60)	= 60 A	
@ 80% DF	60*0.8	= 48 A	
If	(48-10.13)+(1.25*10.13)	= 50.53A	
Icb	(48-10.13)+30	= 67.87 A	

Main Breaker : 100 AT. 100 AF. 3 P. 400V V
Feeder : THHN 1-22mm² x 3, + N22mm² +E8.0mm² VIA PVC conduit
Calculation :
USE: 100AF Neutral Bus

ENGINEER:
REP. ACT 9266 SEC. 33
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PRC REG. No.: / PTR No.: / Place: / Validity: / Date: / TIN:

PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING
LOCATION: ROMBLON STATE UNIVERSITY- MAIN CAMPUS
REV.:

PREPARED BY: ENGR. HERENLIVE S. VICENTE / Local BAC Engineer
CHECKED BY: ENGR. AUGUSTINE D. BRECIA / Head of Electrical Engineering Section
ENGR. NOEL M. TIANGA JR. / Unit Head, PPDO-IPPDO

REVIEWED BY: ARCH. HANNAH FAITH P. MORTA, uap / Director, IPPDO
APPROVED BY: MERIAN P. CATARAY-MANI Ed. D., CESE / Romblon State University President

SHEET CONTENT: AS SHOWN
SHEET NO: E-22

ROMBLON STATE UNIVERSITY
BIDS AND AWARDS COMMITTEE

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SINGLE LINE DIAGRAM

SCALE: 1:180

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TO

PART OF THE BUILDING TO BE CONSTRUCTED

PART OF THE BUILDING TO BE CONSTRUCTED

① GROUND FLOOR EMERGENCY/ EXIT LIGHT LAYOUT PLAN
E-9 SCALE 1:180

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON   REV.:

SHEET CONTENT: AS SHOWN

SHEET NO: E-9

NOTED BY:
ARCH. HANNAH FAITH P. MORTA, UAP
Director, IPPDO

APPROVED BY:
MERIAN P. CATALAN-MANIRA D. CINE
Romblon State University President

CADD BY:
ENGR. RHEDLAN A. VICENTE
Assistant Engineer/CADD Operator

PREPARED BY:
ENGR. REYNAROLD D. MORTA
Associate Electrical Engineer

CHECKED BY:
ENGR. JOEL M. TANGAB
Unit Head, IPPDO-PPWS

ELECTRICAL ENGINEER:

PRC REG No.:
PTR No.:
Place:

Validity:
Date:
TIN:

REP. ACT 9266 SEC. 33

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Website: rsu.edu.ph

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ID 9000018803

FOURTH FLOOR POWER LAYOUT PLAN

1 E-8

SCALE 1:180

FOR FUTURE EXPANSION

OFFICE
OPEN PLAN
HALLWAY
BALCONY
ELEVATOR
STORAGE ROOM
CANOPY LINE
FLOOR DRAIN

SHEET NO: E-8

SHEET CONTENT: AS SHOWN

NOTED BY:
ARCH. HANNAH FAITH P. MORTA, uap
Director, IPPDO

APPROVED BY:
MERIAN P. CATAJAY-MANI Ed. D., CESE
Romblon State University President

CADD BY:

PREPARED BY:
ENGR. FERDINAND S. VICENTE
Assistant Engineer/CADO Operator

ENGR. JAYSON EDWIN D. BRIONES
Electrical Engineering Section

CHECKED BY:
ENGR. NOEL B. TANDA JR.
Unit Head, PPDU/IPPDO

ELECTRICAL ENGINEER:

REP. ACT 9266 SEC. 33

PRC REG No.:
PTR No.:
Place:
Validity:
Date:
TIN:

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON

REV.:

ROMBLON STATE UNIVERSITY
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THIRD FLOOR POWER LAYOUT PLAN

1 / E-7

SCALE 1:180

SHEET NO: E-7

SHEET CONTENT: AS SHOWN

NOTED BY:
ARCH. HANNAH FAITH P. MORTA, uap
Director, IPPDO

APPROVED BY:
MERIAN P. CATAJAY-MANI Ed. D., CESE
Romblon State University President

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ENGR. KEEDEN LANCE VICENTE
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CHECKED BY:
ENGR. ANGEL M. TANDA JR.
Unit Head, PPDU IPPDO

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

REV.:

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN, ROMBLON

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PART OF THE BUILDING TO BE CONSTRUCTED

SECOND FLOOR POWER LAYOUT PLAN

E-6 SCALE 1:180

FOR FUTURE EXPANSION

(EXPANSION) PROPOSED ACCESS TO THE ADJACENT BUILDING [ALL-THRU-STOREY]

CANOPY LINE

ELECTRICAL ENGINEER:

CADD BY:

NOTED BY:
ARCH. HANNAH FAITH P. MORTA, UAP
Director, IPPDO

PREPARED BY:
ENGR. REFFELYN S. ANDIVE
Associate Engineer II/SDO Operator

APPROVED BY:
ENGR. ALVIN JOHN D. BELZA
Head, Machine Engineering Section

MERIAN P. CATALUY-MANUEL D. CENE
Romblon State University President

CHECKED BY:
ENGR. SAIDA M. DANGILIE
Unit Head, PPDO UPPRO

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON

REV.:

REP. ACT 9266 SEC. 33

SHEET CONTENT:
AS SHOWN

SHEET NO:
E-6

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1 GROUND FLOOR POWER LAYOUT PLAN

E-5   SCALE   1:180

SHEET NO: E-5

SHEET CONTENT: AS SHOWN

NOTED BY:
ARCH. HANNAH FATIH P. MORTA, uap
Director, DPPDO

APPROVED BY:
MERIAN P. CATALAY-MANTIG, D. CDSE.
Romblon State University President

CADD BY:
ENGR. KERENHAY A VICENTE
Assistant Engineer/CADD Operator

PREPARED BY:
ENGR. ALVN KRIM A BRIOL
Engineer/CADD Operator

CHECKED BY:
ENGR. NORLAN TANIGUE
Unit Head, PPDU (IPPDO)

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON   **REV.:**

ELECTRICAL ENGINEER:
PRC REG. No. :
PTR No. :
Place :
Validity :
Date :
TIN :

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Legend:
- Tube Light LED 18 W
- Pin Light LED 14 W
- Panelboard

FOURTH FLOOR LIGHTING LAYOUT PLAN 1:180

SCALE

E-4

PROJECT TITLE:

CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON

REV.:

ELECTRICAL ENGINEER:

PRC REG. No.:
PTR No.:
Plate:

Validity:
Date:
TIN:

CADD BY:

PREPARED BY:

CHECKED BY:

NOTED BY:

ARCH. HANNAH FATIH P. MORTA, uap

APPROVED BY:

MERIAN P. CATALA-MANIEGA D. CISE

SHEET CONTENT:

AS SHOWN

SHEET NO:

E-4

REP. ACT 9266 SEC. 33

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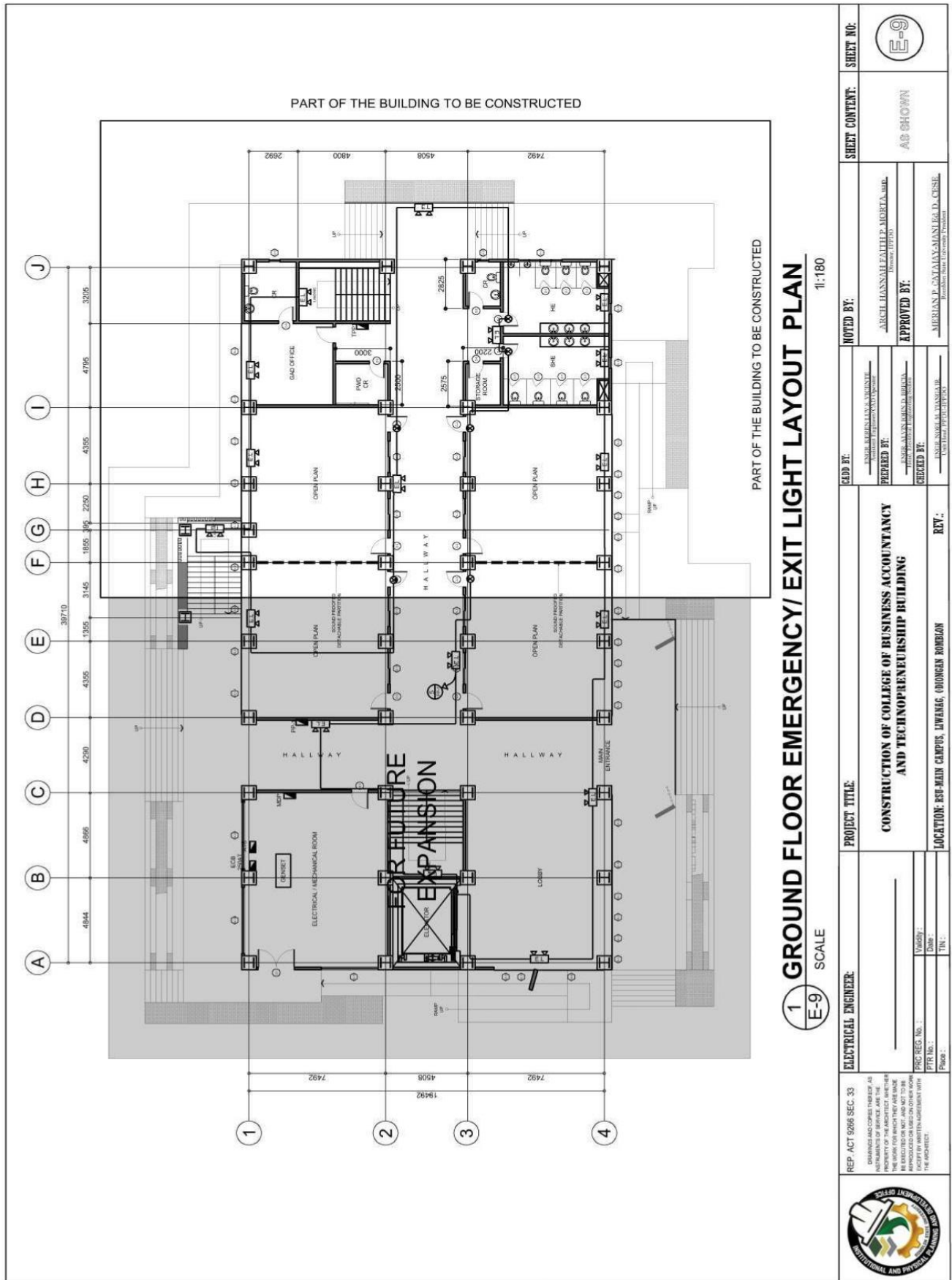Website: rsu.edu.ph

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Legend:
- Tube Light LED 18 W
- Pin Light LED 14 W
- Panelboard

THIRD FLOOR LIGHTING LAYOUT PLAN
SCALE 1:180
E-3 / 1

FOR FUTURE EXPANSION

OFFICE
OPEN PLAN
OPEN PLAN
OPEN PLAN
OPEN PLAN
OPEN PLAN
OPEN PLAN
OFFICE
STORAGE ROOM
HALLWAY
HALLWAY
BALCONY
CANOPY LINE
CANOPY LINE
FLOOR DRAIN
ELEVATOR

SOUND PROOFED DEMOUNTABLE PARTITION
SOUND PROOFED DEMOUNTABLE PARTITION

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON   REV.:

ELECTRICAL ENGINEER:

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PTR No.
Place:
Validity:
Date:
TIN.:

CADD BY:
ENGR. KERENZ LYN A. VICENTE
Assistant Engineer/CADD Operator

PREPARED BY:
ENGR. ALVIN JOHN D. REGIDA
Senior Architect Engineering Section

CHECKED BY:
ENGR. NIELA M. TUANGO JR.
Unit Head, PPDO (IPPDO)

NOTED BY:
ARCH. HANNAH FAITH P. MORTA, uap
Director, IPPDO

APPROVED BY:
MERIAN P. CATALAY-MANUEL, D. CRSE
Romblon State University President

SHEET CONTENT:
AS SHOWN

SHEET NO:
E-3

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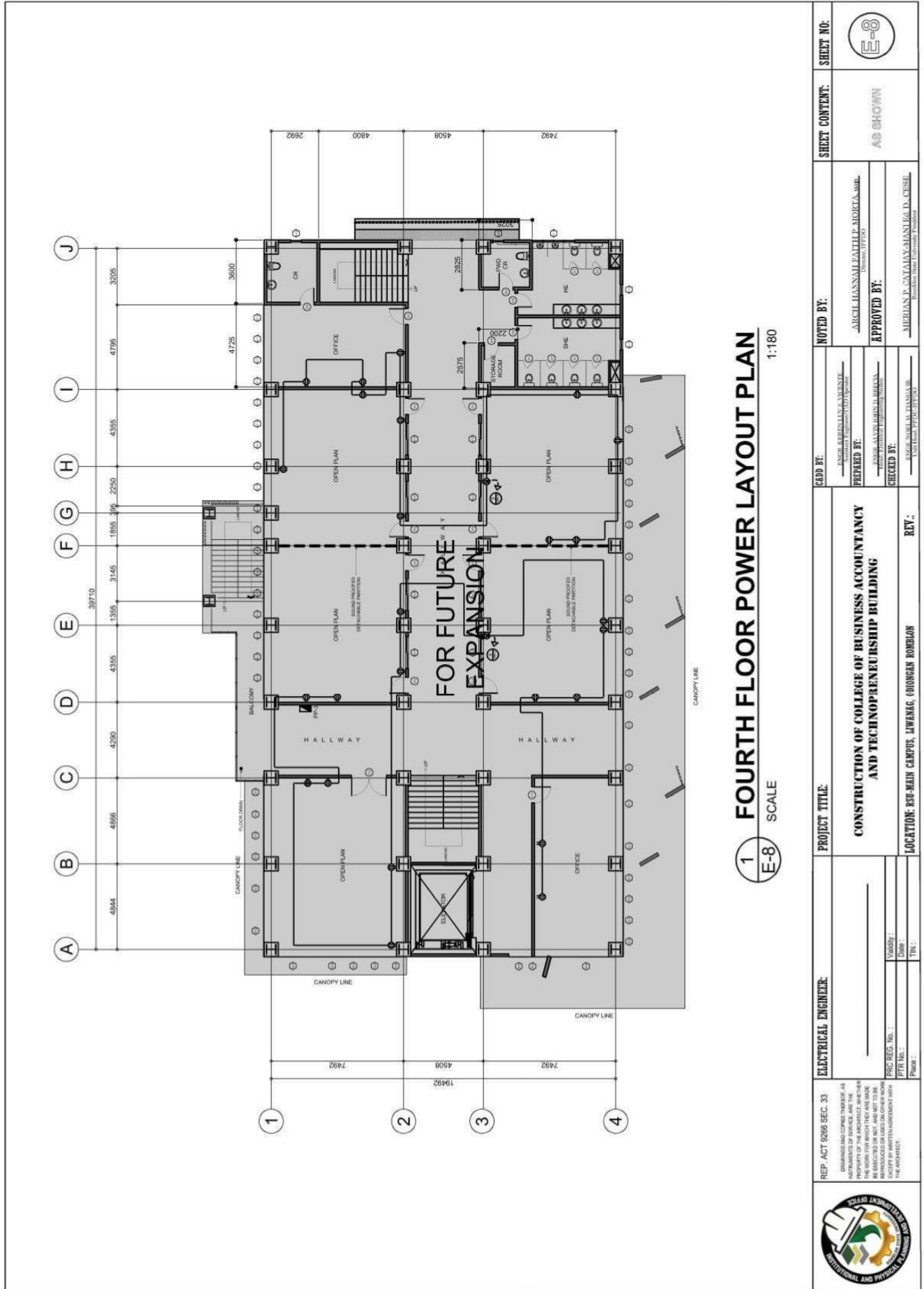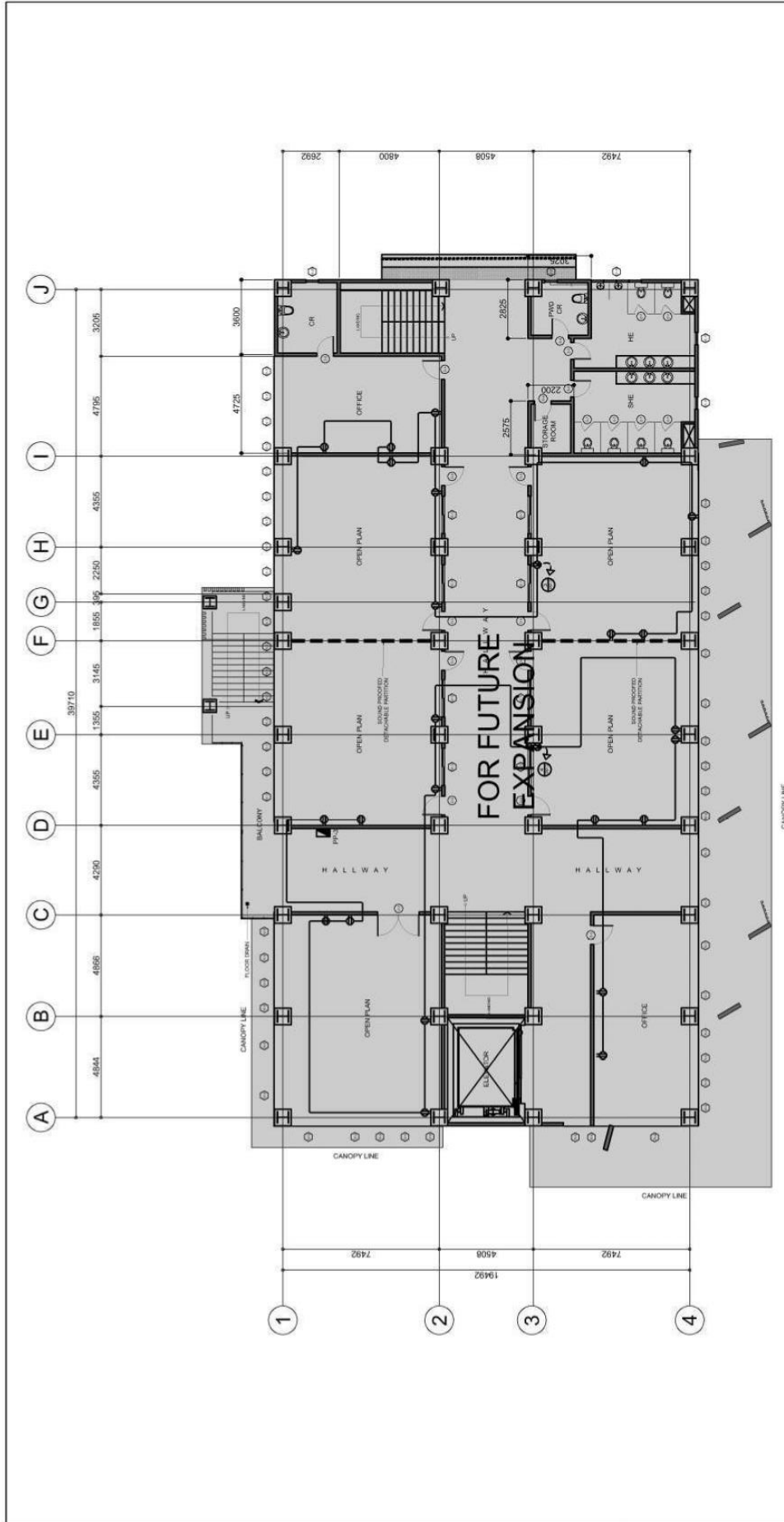## BIDS AND AWARDS COMMITTEE
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Website: rsu.edu.ph

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Legend:

Tube Light LED 18 W

Pin Light LED 14 W

Panelboard

PART OF THE BUILDING TO BE CONSTRUCTED

PART OF THE BUILDING TO BE CONSTRUCTED

FOR FUTURE EXPANSION

HALLWAY

FUNCTION ROOM

OPEN PLAN

OFFICE

STORAGE ROOM

BALCONY

ELEVATOR

CANOPY LINE

(EXPANSION) PROPOSED ACCESS TO THE ADJACENT BUILDING (WALL-THRU-STOREY)

SECOND FLOOR LIGHTING LAYOUT PLAN
E-2
SCALE 1:180

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON

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CADD BY:

PREPARED BY:

ENGR. ALVIN JOHN D. BRIONES
Truss Structural Engineering Solution

CHECKED BY:

ENGR. NOEL M. TANILA III
Unit Head, PPDO (PPDO)

NOTED BY:

ARCH. HANNAH FAITH P. MORTA, uap
Director, PPDO

APPROVED BY:

MERIAN P. CATALAY-MANI Ed. D. CESE
Romblon State University President

SHEET CONTENT:
AS SHOWN

SHEET NO:
E-2

ROMBLON STATE UNIVERSITY
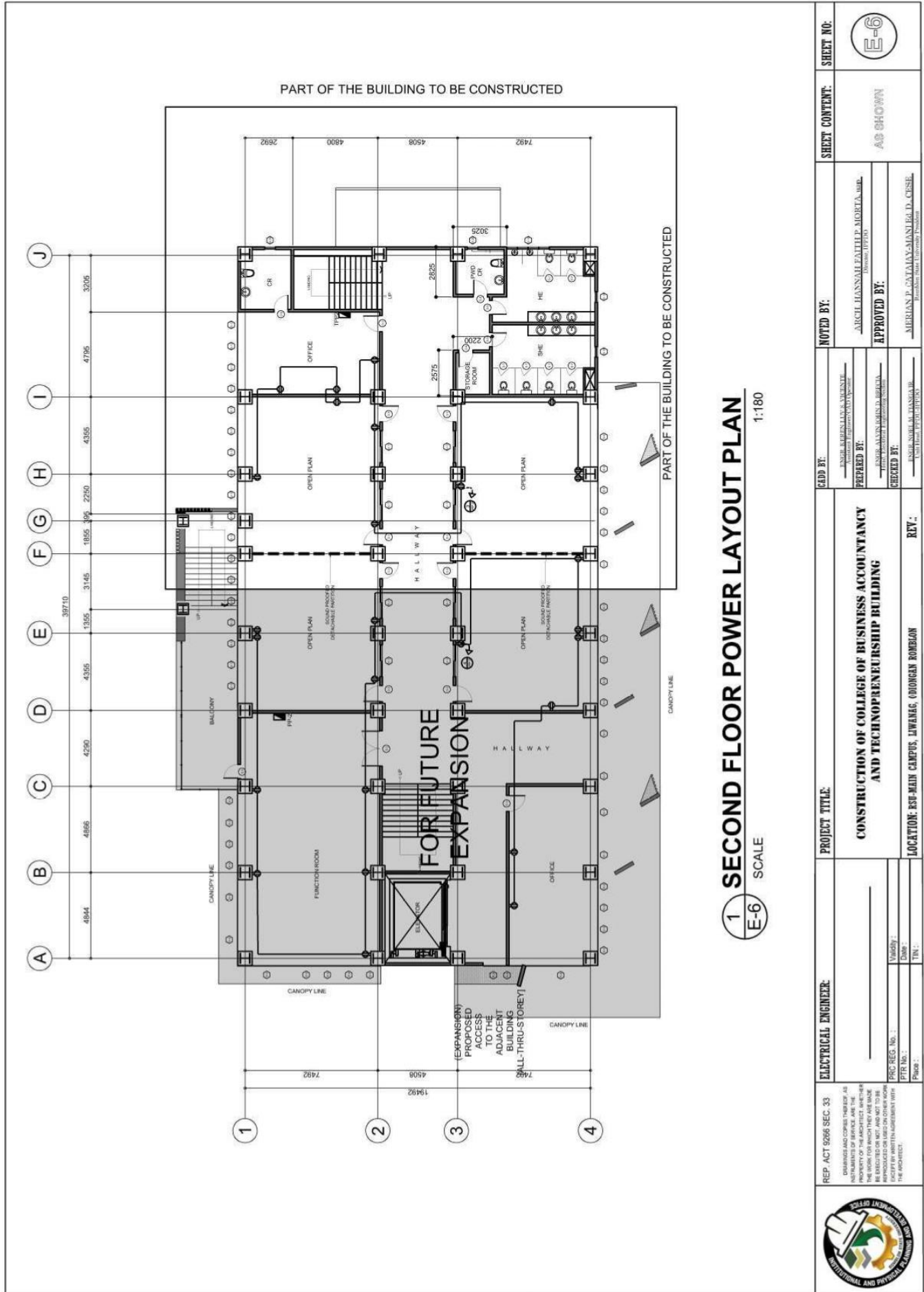## BIDS AND AWARDS COMMITTEE
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Legend:
- Tube Light LED 18 W
- Pin Light LED 14 W
- Panelboard

PART OF THE BUILDING TO BE CONSTRUCTED

PART OF THE BUILDING TO BE CONSTRUCTED

HEAD OFFICE

STORAGE ROOM

OPEN PLAN

OPEN PLAN

OPEN PLAN

OPEN PLAN

HALL

HALLWAY

HALLWAY

ELECTRICAL / MECHANICAL ROOM

GENSET

ELEVATOR

LOBBY

FOR FUTURE EXPANSION

① **GROUND FLOOR LIGHTING LAYOUT PLAN**
E-1   SCALE   1:180

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON   REV.:

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CADD BY:
ENGR. KRISTIAN LOYD A. VICENTE
Assistant Engineer, CADD Operator

PREPARED BY:
ENGR. ALVIN EDEN D. MIRETA
Assistant Engineer, Engineering Services

CHECKED BY:
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Unit Head, PPDU/IPPDU

NOTED BY:
ARCH. HANNAH FAITH P. MORTA, uap
Director, IPPDU

APPROVED BY:
MERIAN P. CATAJAY-MANI Ed. D. CESE
Romblon State University President

SHEET CONTENT:
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SHEET NO.:
E-1
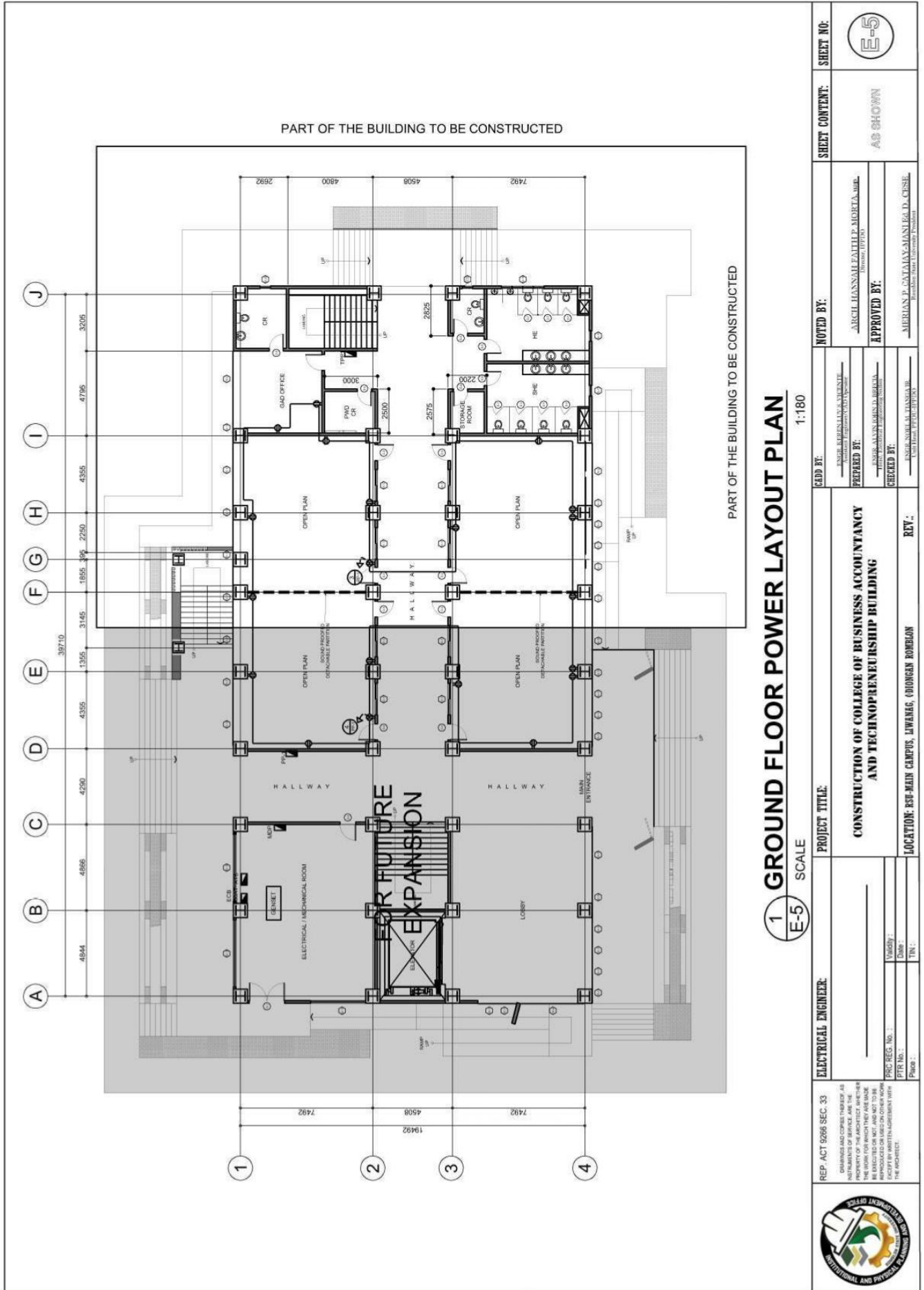
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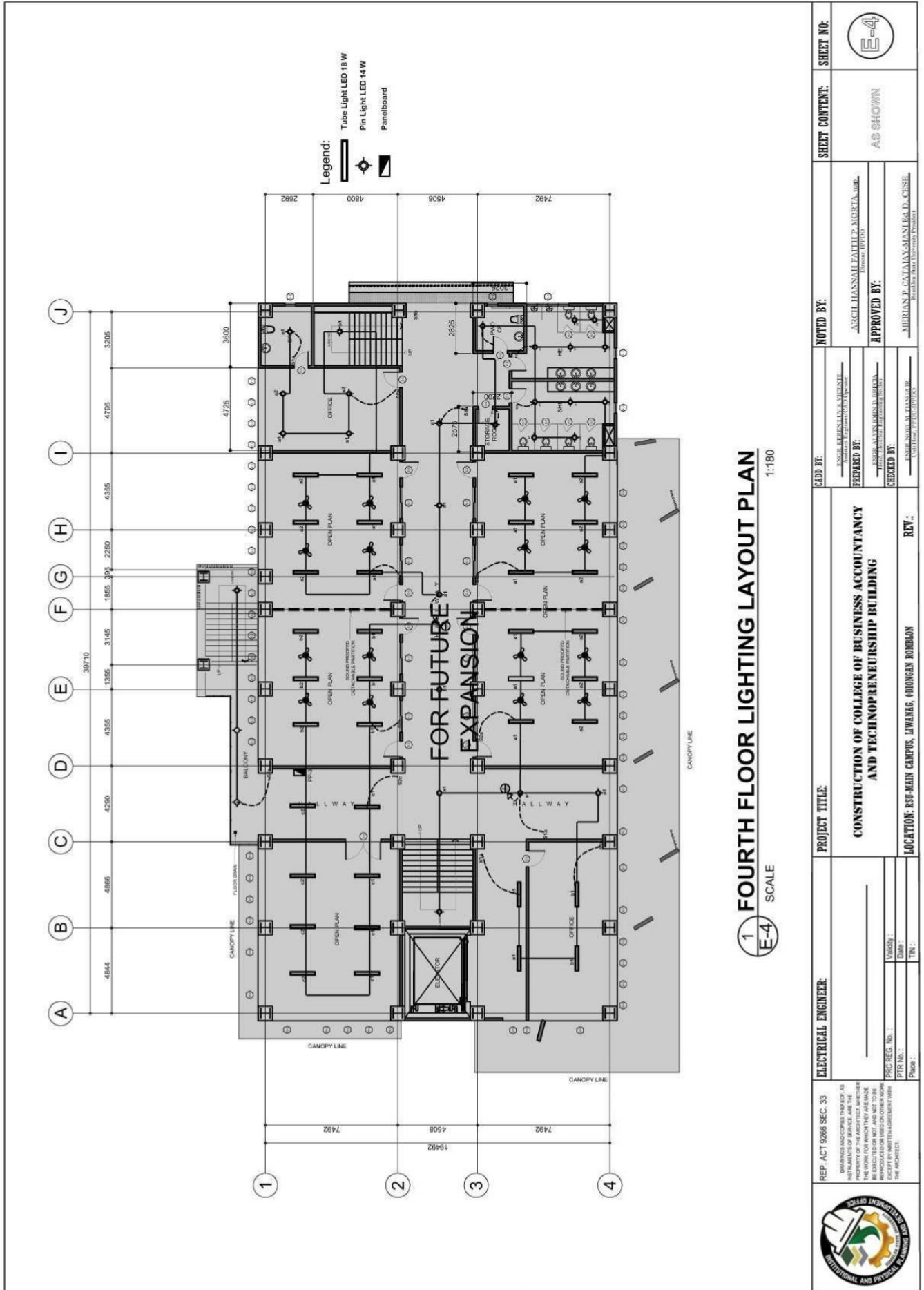## BIDS AND AWARDS COMMITTEE
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FOR FUTURE EXPANSION

OFFICE
OPEN PLAN
OPEN PLAN
HALLWAY
HALLWAY
FUNCTION ROOM
BALCONY
STORAGE ROOM
ELEVATOR
CANOPY LINE

(EXPANSION) PROPOSED ACCESS TO THE ADJACENT BUILDING (WALL-THRU-STOREY)

SECOND FLOOR EMERGENCY/ EXIT LIGHT LAYOUT PLAN
1:180
E-10
SCALE

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN, ROMBLON

REV.:

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Date:
TIN.:

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CADD BY:
ENGR. KERENA IVY N. VICENTE
Assistant Engineer's/ CADD Operator

PREPARED BY:
ENGR. ALVIN JOHN D. REGINA
Consultant Engineer/ Architect

CHECKED BY:
ENGR. NIEL M. TIANGA JR.
Unit Head, PPDO/IPPDO

NOTED BY:
ARCH. HANNAH FAITH P. MORTA, uap
Director, IPPDO

APPROVED BY:
MERIAN P. CATALUNA-MANTE, Ed. D. CESE
Romblon State University President

SHEET CONTENT:
AS SHOWN

SHEET NO:
E-10

THIRD FLOOR FIRE ALARM LAYOUT

1 E-19 SCALE 1:180

FOR FUTURE EXPANSION

OPEN PLAN · OFFICE · STORAGE ROOM · HALLWAY · BALCONY · ELEVATOR · CANOPY LINE · SOUND PROOFED DETACHABLE PARTITION

SHEET NO:	E-19
SHEET CONTENT:	AS SHOWN

NOTED BY: ARCH. HANNAH FAITH P. MORTA, uap
Director, IPPDO

APPROVED BY: MERIAN P. CATADA-MANLEGO, CESE
Romblon State University President

CADD BY:
ENGR. KERWIN LYN R. VICENTE
Assistant Engineer, OUDS Operator

PREPARED BY:
ENGR. RAY VEN MHEL D. BRAZA
Associate Engineer, Engineering Services

CHECKED BY:
ENGR. NOREL M. TANIA JR.
Unit Head, PPD-CHED-DPU

REV.:

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON

ELECTRICAL ENGINEER:
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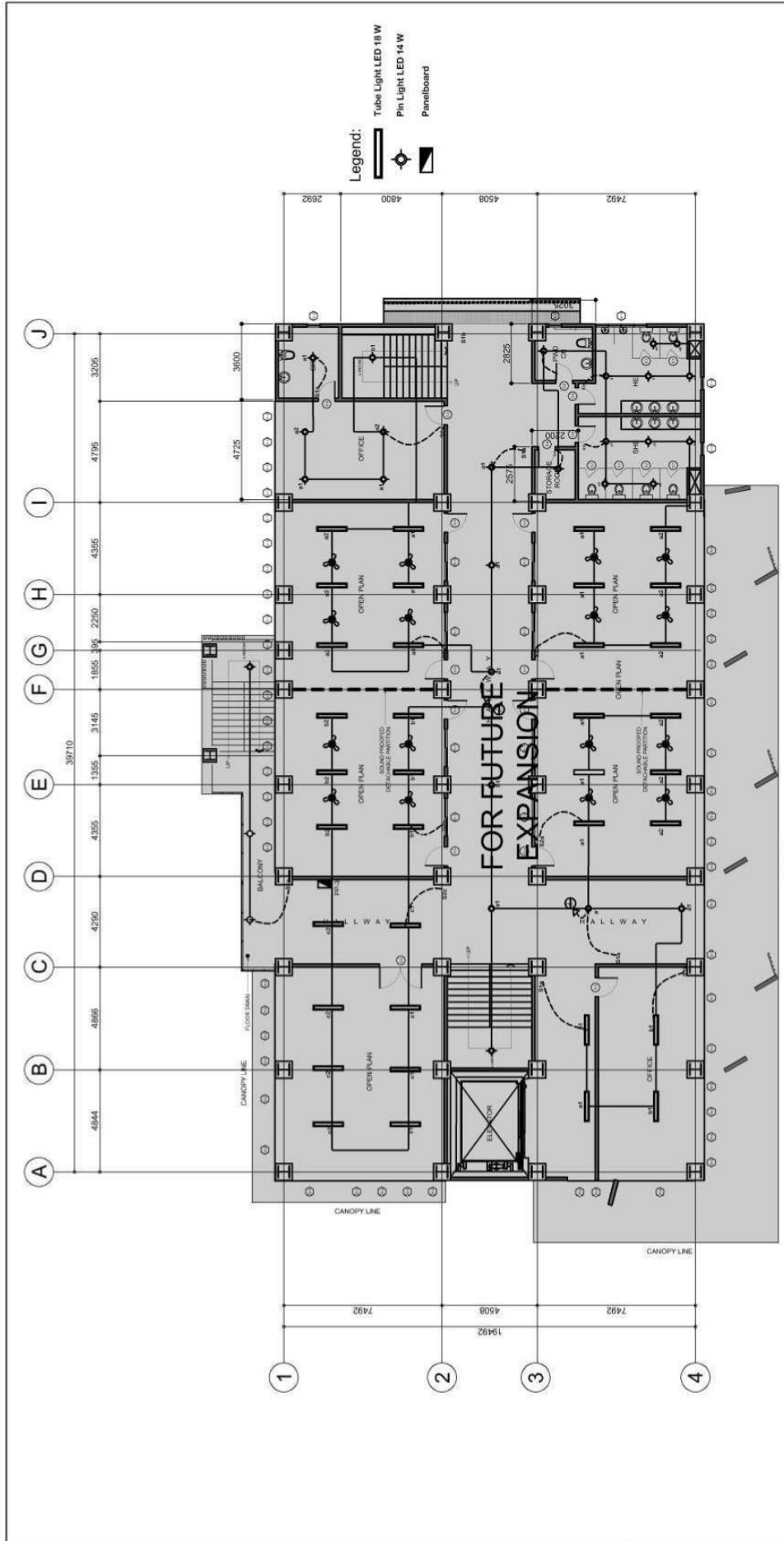# ROMBLON STATE UNIVERSITY
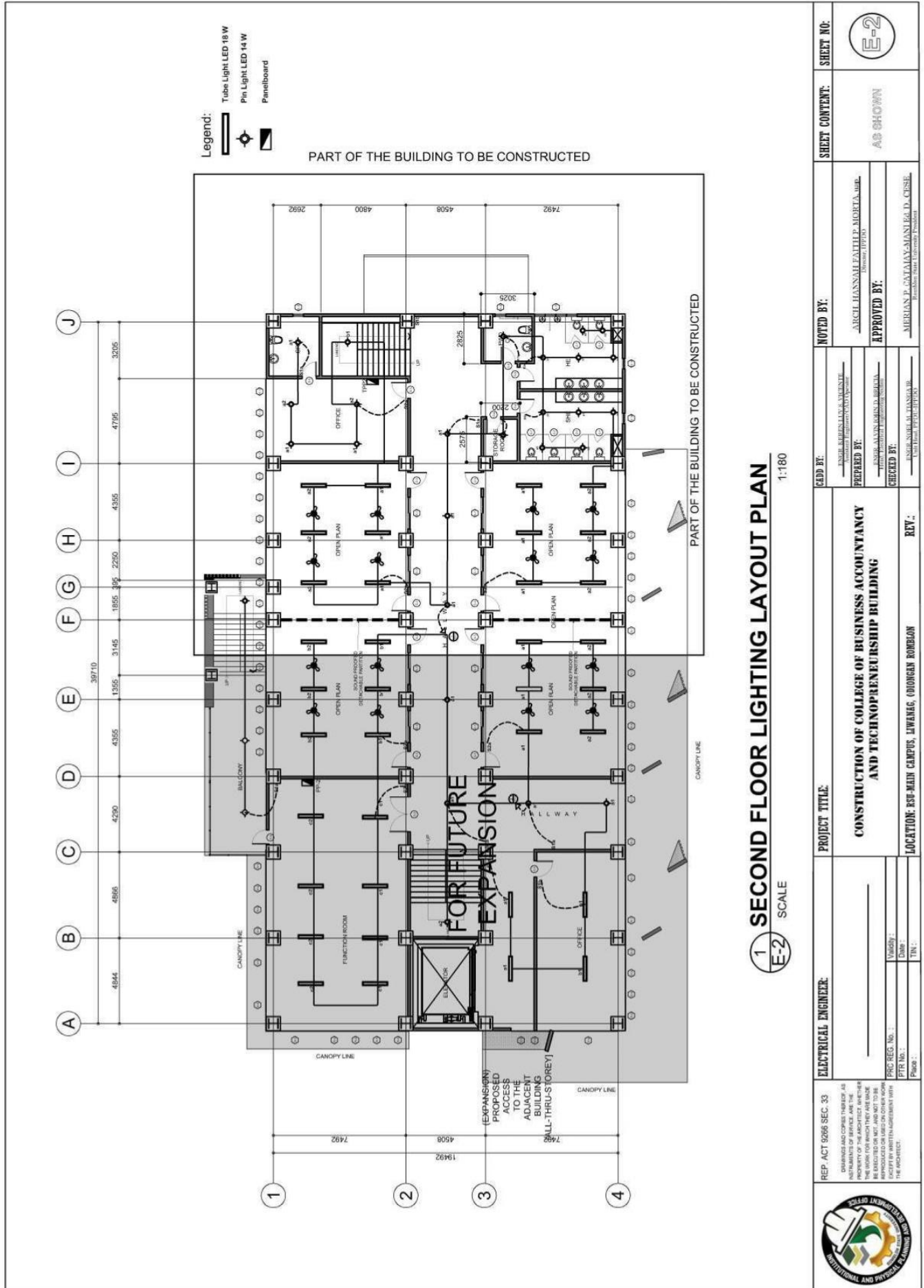### BIDS AND AWARDS COMMITTEE

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FOR FUTURE EXPANSION

(EXPANSION) PROPOSED ACCESS TO THE ADJACENT BUILDING (ALL-THRU-STOREY)

CANOPY LINE

FUNCTION ROOM

OFFICE

BALCONY

OPEN PLAN

HALLWAY

SOUND PROOFED DEMOUNTABLE PARTITION

OFFICE

STORAGE ROOM

PWD CR

ELEVATOR

① SECOND FLOOR FIRE ALARM LAYOUT
E-18   SCALE   1:180

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN, ROMBLON

REV.:

ELECTRICAL ENGINEER:

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NOTED BY:

ARCH. HANNAH FAITH P. MORTA SBD
Member, IPPDO

PREPARED BY:

APPROVED BY:

MERIAN P. CATAJAY-MANI Ed. D. CESE
Romblon State University President

CADD BY:

CHECKED BY:

SHEET CONTENT:
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SHEET NO:
E-18

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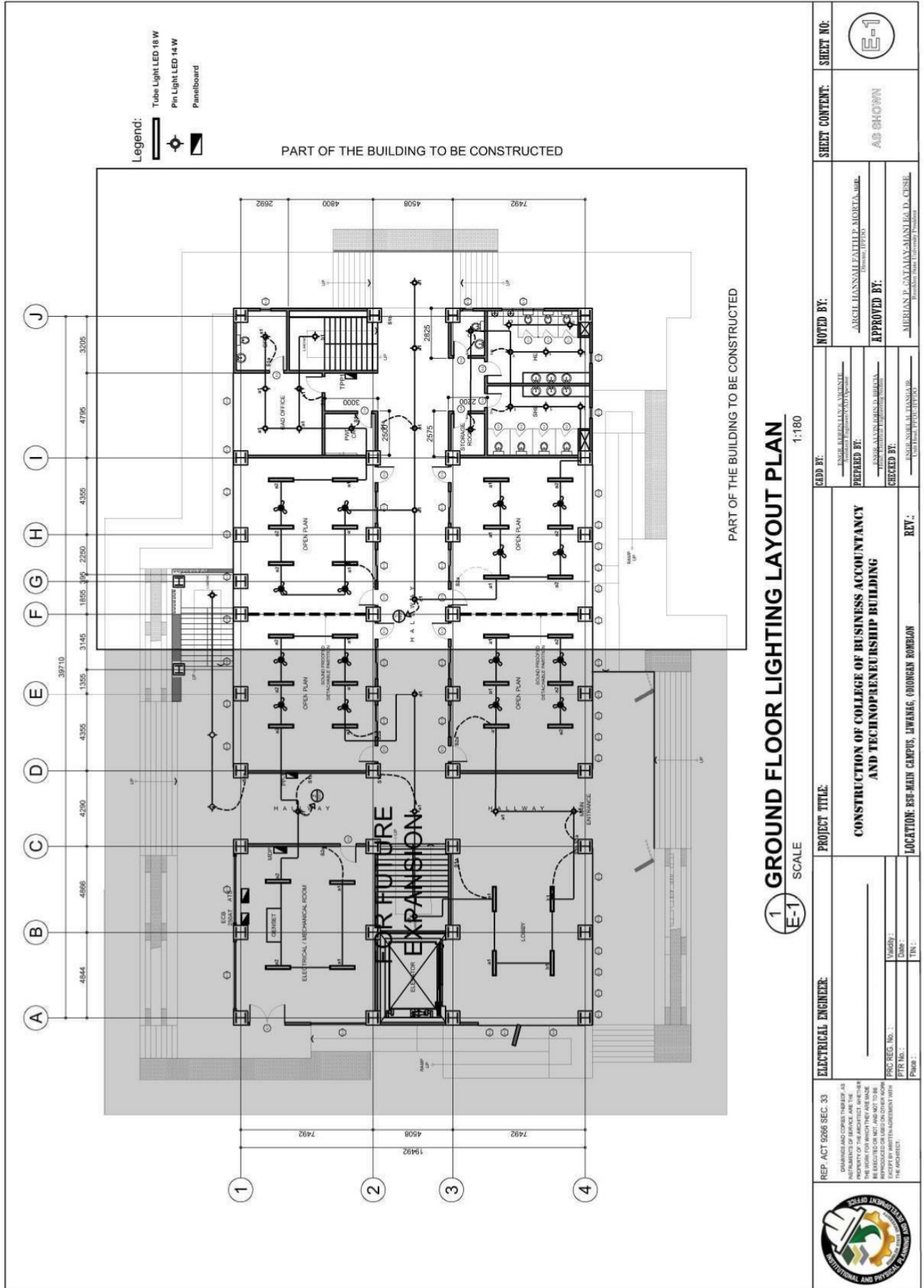## BIDS AND AWARDS COMMITTEE
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1 GROUND FLOOR FIRE ALARM LAYOUT
E-17 SCALE 1:180

PROJECT TITLE:

CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

REV.:

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON

ELECTRICAL ENGINEER:

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CADD BY:

NOTED BY:

ENGR. KERWIN LEX A. VICENTE
Assistant Engineer/CADD Operator

ARCH. HANNAH FAITH P. MORTA, uap
Director/IPPDO

PREPARED BY:

ENGR. AIVIN JOHN D. MORTA
Engineer/IPPDO

APPROVED BY:

CHECKED BY:

ENGR. NOEL M. TINSAR
Unit Head, PPDE/IPPDO

MERIAN P. CATAYA-MANUEL D. CESE
Romblon State University President

SHEET CONTENT:

AS SHOWN

SHEET NO:

E-17

ROMBLON STATE UNIVERSITY
BIDS AND AWARDS COMMITTEE
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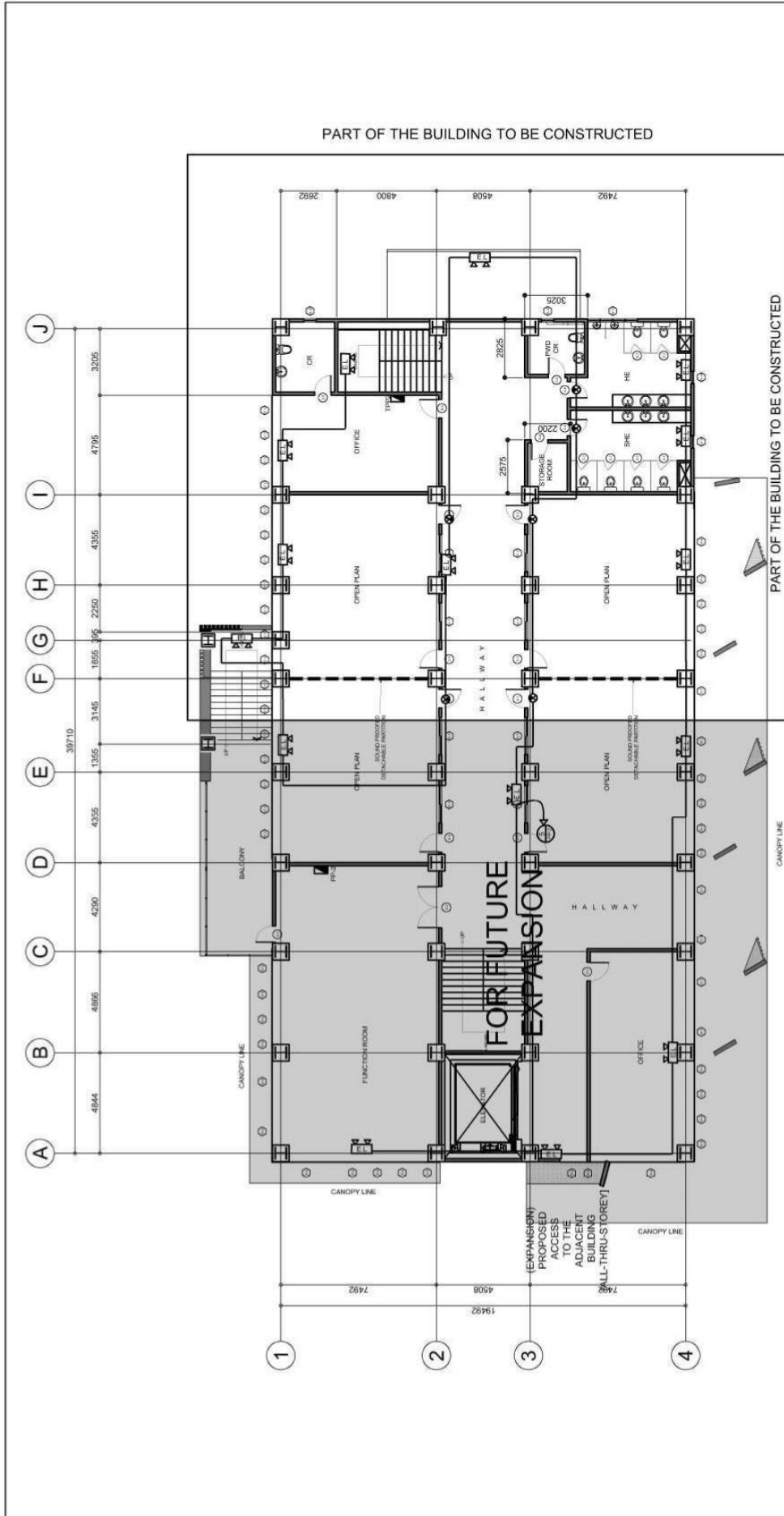**FOURTH FLOOR CCTV LAYOUT PLAN**

SCALE 1:180

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THIRD FLOOR CCTV LAYOUT PLAN

1:180

E-15 SCALE

FOR FUTURE EXPANSION

OFFICE

OPEN PLAN

OPEN PLAN

OPEN PLAN

OPEN PLAN

OPEN PLAN

OPEN PLAN

HALLWAY

HALLWAY

BALCONY

STORAGE ROOM

ELEV. CR

CANOPY LINE

SOUND PROOFED DETACHABLE PARTITION

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON

REV.:

ELECTRICAL ENGINEER:

CADD BY:

NOTED BY:

ARCH. HANNAH FAITH P. MORTA, UAP
Director, IPPDO

APPROVED BY:

MERIAN P. CATALLAY-MANTIG, D. CDSE
Romblon State University President

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SHEET NO: E-15

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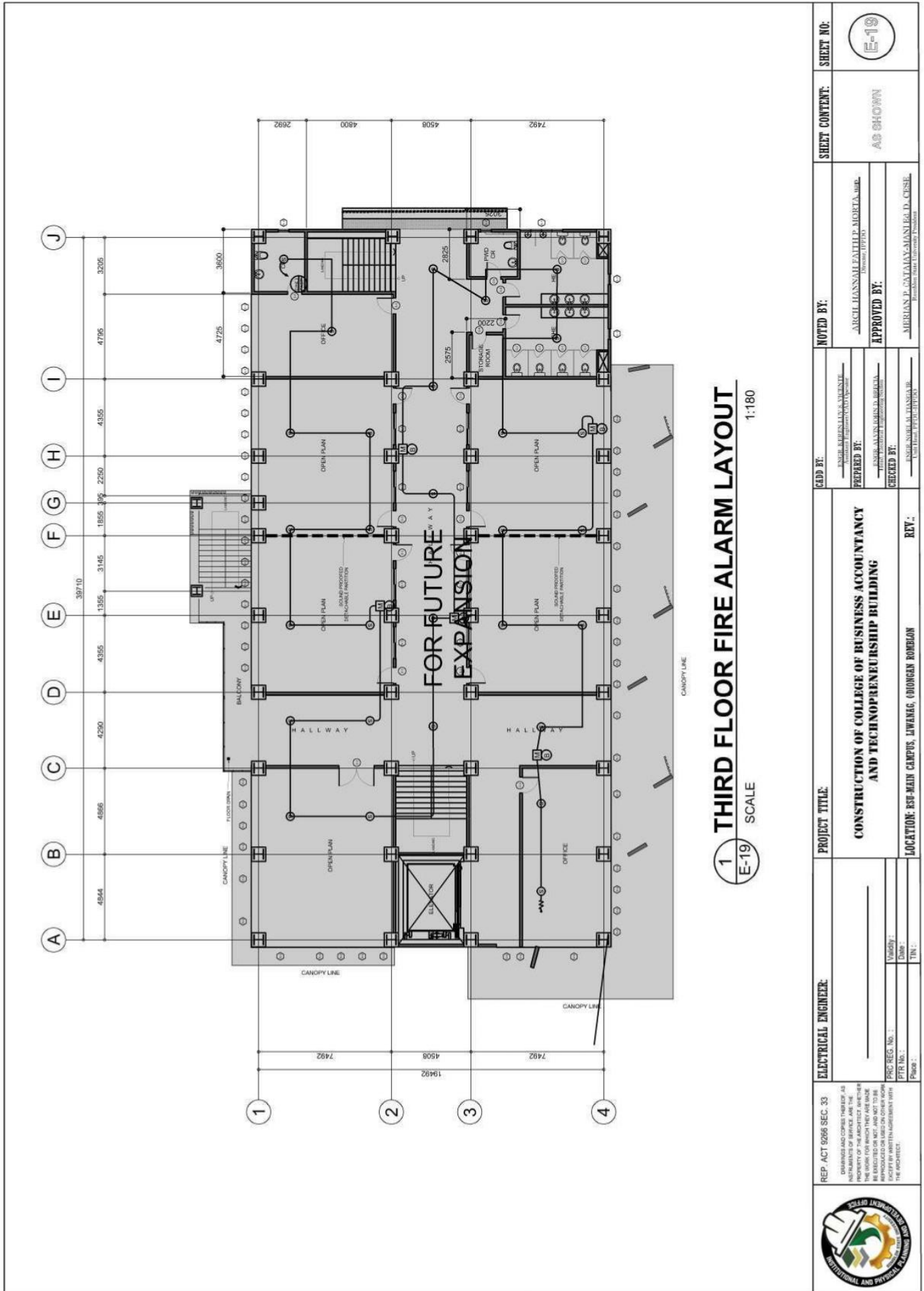## BIDS AND AWARDS COMMITTEE
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FOR FUTURE EXPANSION

FUNCTION ROOM

OFFICE

OFFICE

OPEN PLAN

OPEN PLAN

OPEN PLAN

OPEN PLAN

BALCONY

HALLWAY

HALLWAY

STORAGE ROOM

ELEVATOR

CANOPY LINE

CANOPY LINE

CANOPY LINE

CANOPY LINE

(EXPANSION) PROPOSED ACCESS TO THE ADJACENT BUILDING (ALL-THRU-STOREY)

SOUND PROOF/DETACHABLE PARTITION

SOUND PROOF/DETACHABLE PARTITION

1 SECOND FLOOR CCTV LAYOUT PLAN
E-14   SCALE   1:180

PROJECT TITLE:

CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON   **REV :**

CADD BY:

ENGR. REDEN LUV A. VICENTE
Assistant Engineer/CADD Operator

PREPARED BY:

ENGR. ALVIN JOHN D. REGIA
Junior Technical Engineering Section

CHECKED BY:

ENGR. NOEL B. TIANGJA JR.
Unit Head, PPDU/IPPDO

NOTED BY:

ARCH. HANNAH FAITH P. MORTA, uap
Director, IPPDO

APPROVED BY:

MERIAN P. CATALAY-MANLEG, D. CENE.
Romblon State University President

SHEET CONTENT:

AS SHOWN

SHEET NO:

E-14

ELECTRICAL ENGINEER:

PRC REG. No.:
PTR No.:
Place:

Validity
Date
TIN :

REP. ACT 9266 SEC. 33

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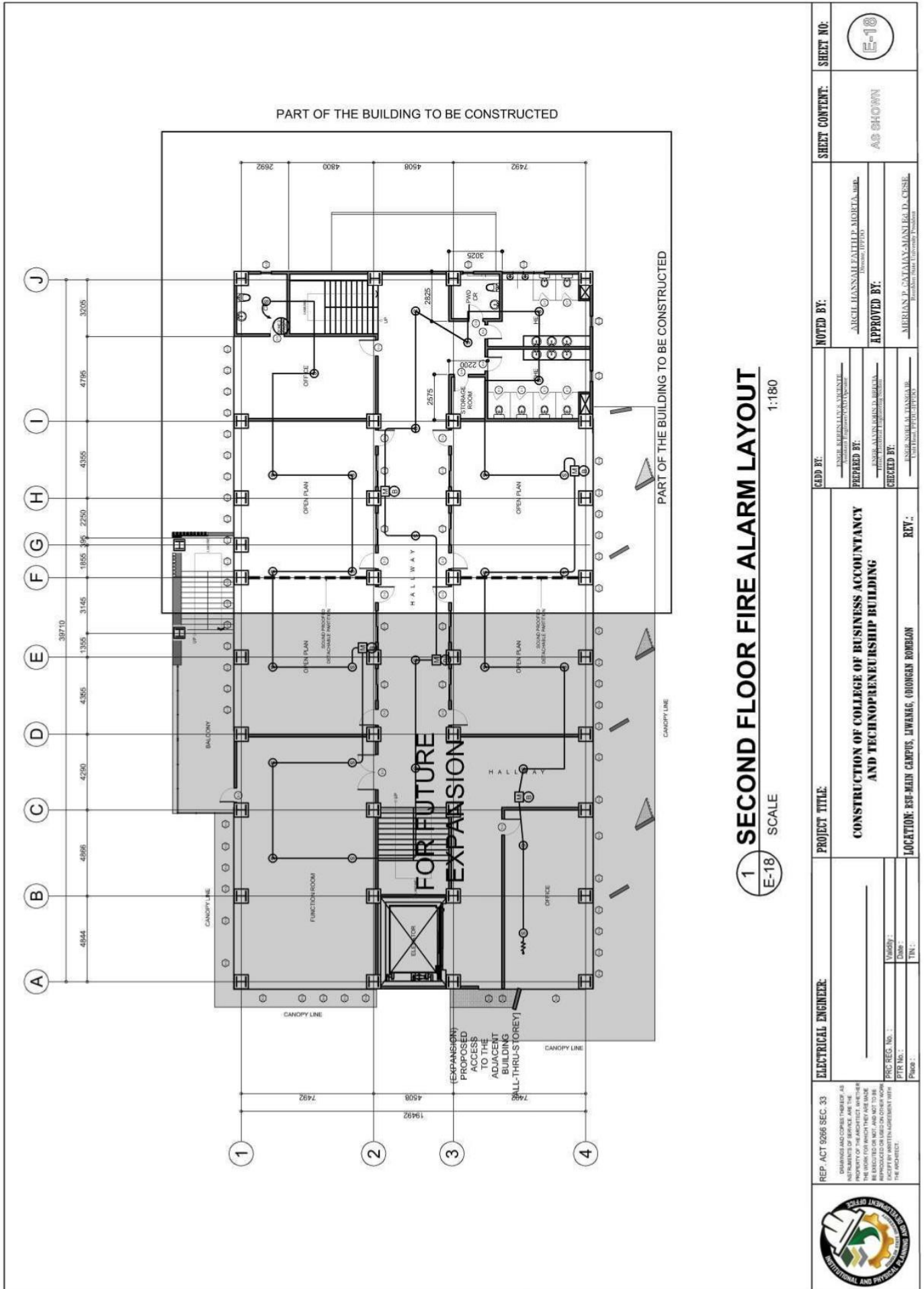## BIDS AND AWARDS COMMITTEE
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Website: rsu.edu.ph

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PART OF THE BUILDING TO BE CONSTRUCTED

PART OF THE BUILDING TO BE CONSTRUCTED

GROUND FLOOR CCTV LAYOUT PLAN

SCALE 1:180

E-13

GAD OFFICE

PWD CR

STORAGE ROOM

OPEN PLAN

OPEN PLAN

HALLWAY

OPEN PLAN

SOUND PROOFED DEMOUNTABLE PARTITION

OPEN PLAN

SOUND PROOFED DEMOUNTABLE PARTITION

FOR FUTURE EXPANSION

HALLWAY

HALLWAY

ELECTRICAL / MECHANICAL ROOM

LOBBY

ELEVATOR

ENTRANCE

SHEET CONTENT: AS SHOWN

SHEET NO: E-13

NOTED BY:
ARCH. HANNAH FAITH P. MORTA, uap
Director, IPPDO

PREPARED BY:
ENGR. ALVIN JOHN D. SPECIA
Head, Electrical Engineering Section

CHECKED BY:
ENGR. NOEL M. TANSIOR
Unit Head, PPDU-IPPDO

APPROVED BY:
MERIAN P. CATAJAY-MANI, Ed. D, CESE
Romblon State University President

CADD BY:
ENGR. ROBINSON S. VICENTE
Sanitary Engineer/CAATV Operator

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON

REV.:

ELECTRICAL ENGINEER:
Validity
Date
PRC REG No.
PTR No.
TIN :
Place :

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FOURTH FLOOR EMERGENCY/ EXIT LIGHT LAYOUT PLAN

1 / E-12   SCALE   1:180

FOR FUTURE EXPANSION

OPEN PLAN · OFFICE · HALLWAY · BALCONY · CANOPY LINE · STORAGE ROOM · SOUND PROOFED DEMOUNTABLE PARTITION

SHEET NO: E-12

SHEET CONTENT: AS SHOWN

NOTED BY:
ARCH. HANNAH FATTLP. MORTA, uap
Director, IPPDO

APPROVED BY:
MERIAN P. CATALAY-MANLEG D. CESE
Romblon State University President

CADD BY:

PREPARED BY:
ENGR ALVIN JOHN D. BRIOLA
Head, Electrical Engineering Section

CHECKED BY:
ENGR. NOEL M. TANELE III
Unit Head, PPDU-IPPDO

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON   **REV.:**

ELECTRICAL ENGINEER:

REP. ACT 9266 SEC. 33

PRC REG. No.:   Validity:
PTR No.:   Date:
Place: TIN:

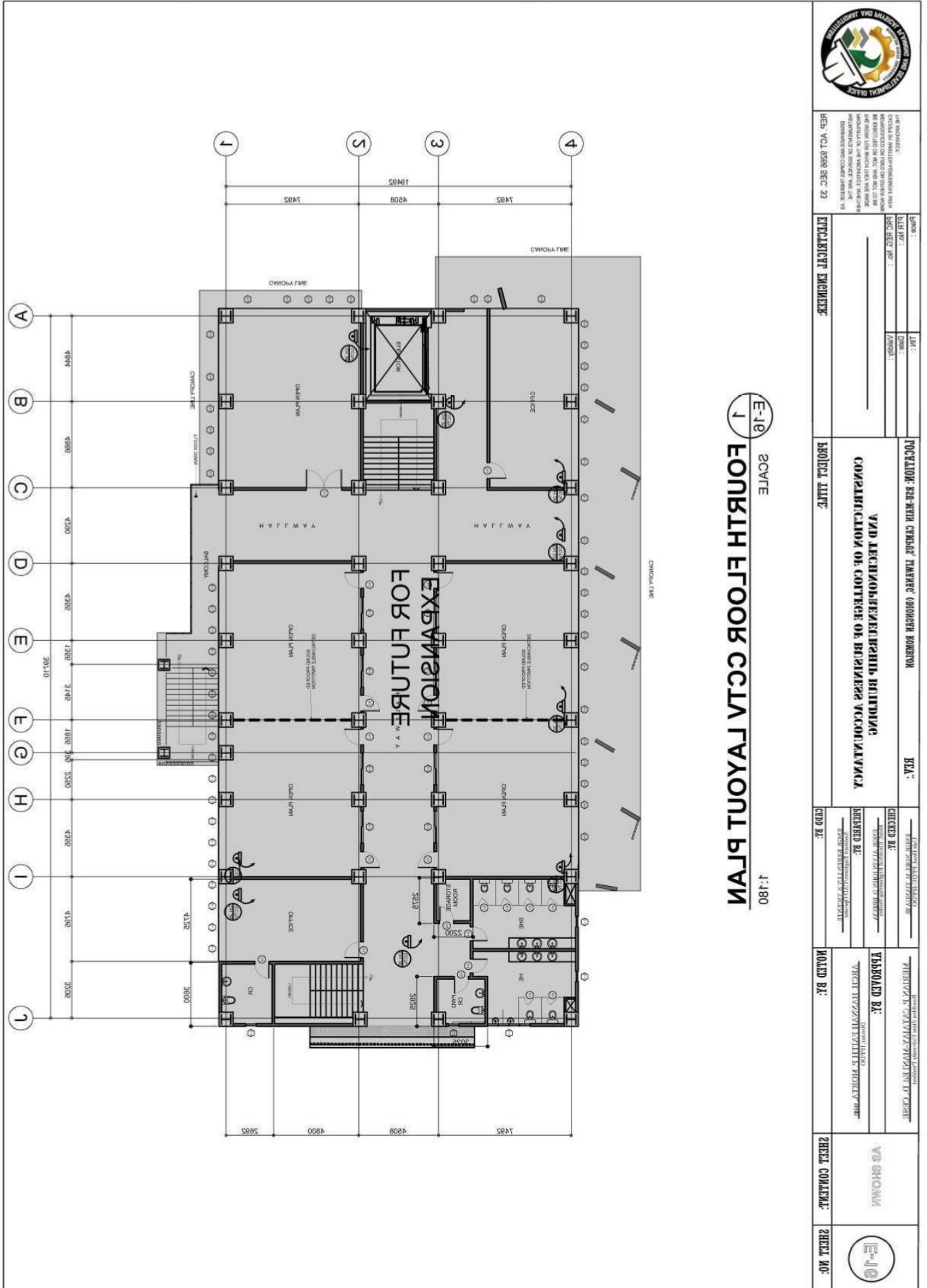# ROMBLON STATE UNIVERSITY
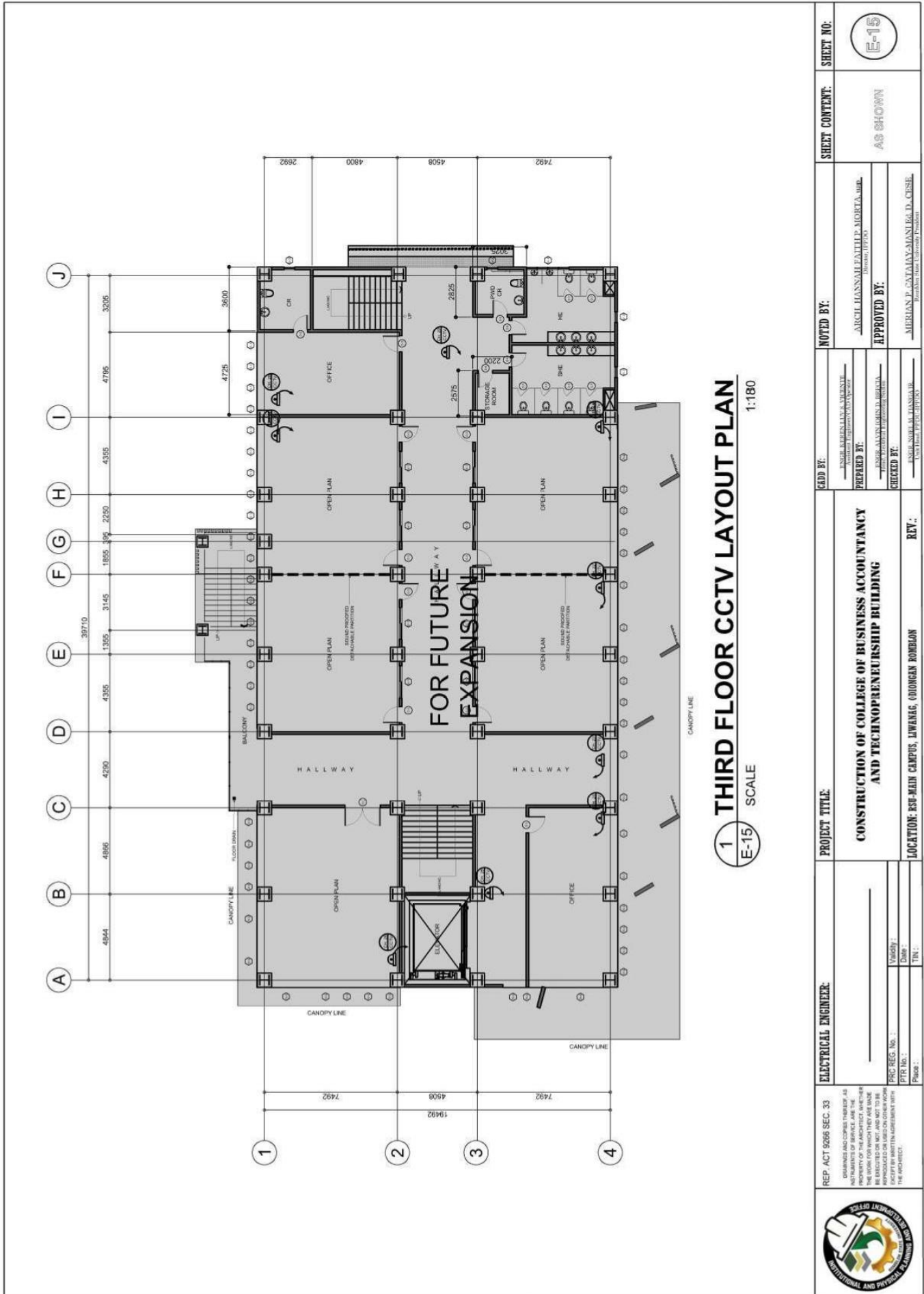### BIDS AND AWARDS COMMITTEE
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1 **THIRD FLOOR EMERGENCY/ EXIT LIGHT LAYOUT PLAN**
E-11
SCALE 1:180

FOR FUTURE EXPANSION

OFFICE
OPEN PLAN
STORAGE ROOM
CR
PWD CR
HE
SHE
HALLWAY
BALCONY
ELEVATOR
CANOPY LINE
FLOOR DRAIN
SOUND PROOFED DETACHABLE PARTITION
W A Y

Dimensions: 2692, 4800, 4508, 7492 / 19492
3205, 3600, 4725, 2825, 2200, 2575, 4795, 4355, 2250, 1855, 395, 3145, 1395, 4355, 4290, 4866, 4844
39710
3026, 3036

ELECTRICAL ENGINEER:
REP. ACT 9266 SEC. 33
PRC REG. No.
PTR No.:
Place:
Validity:
Date:
TIN:

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PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING
LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON
REV.:

CADD BY:
ENGR. REFFINALY S. VICENTE
Assistant Engineer/CADD Operator
PREPARED BY:
ENGR. ALVIN JOHN D. SEGCIA
Junior Technical Engineering Institute
CHECKED BY:
ENGR. NOEL M. TANIGA JR.
Unit Head, PPDU/IPPDO

NOTED BY:
ARCH. HANNAH FAITH P. MORTA, UAP
Director, IPPDO
APPROVED BY:
MERIAN P. CATAJAY-MANI Ed. D. CESE
Romblon State University President

SHEET CONTENT:
AS SHOWN

SHEET NO:
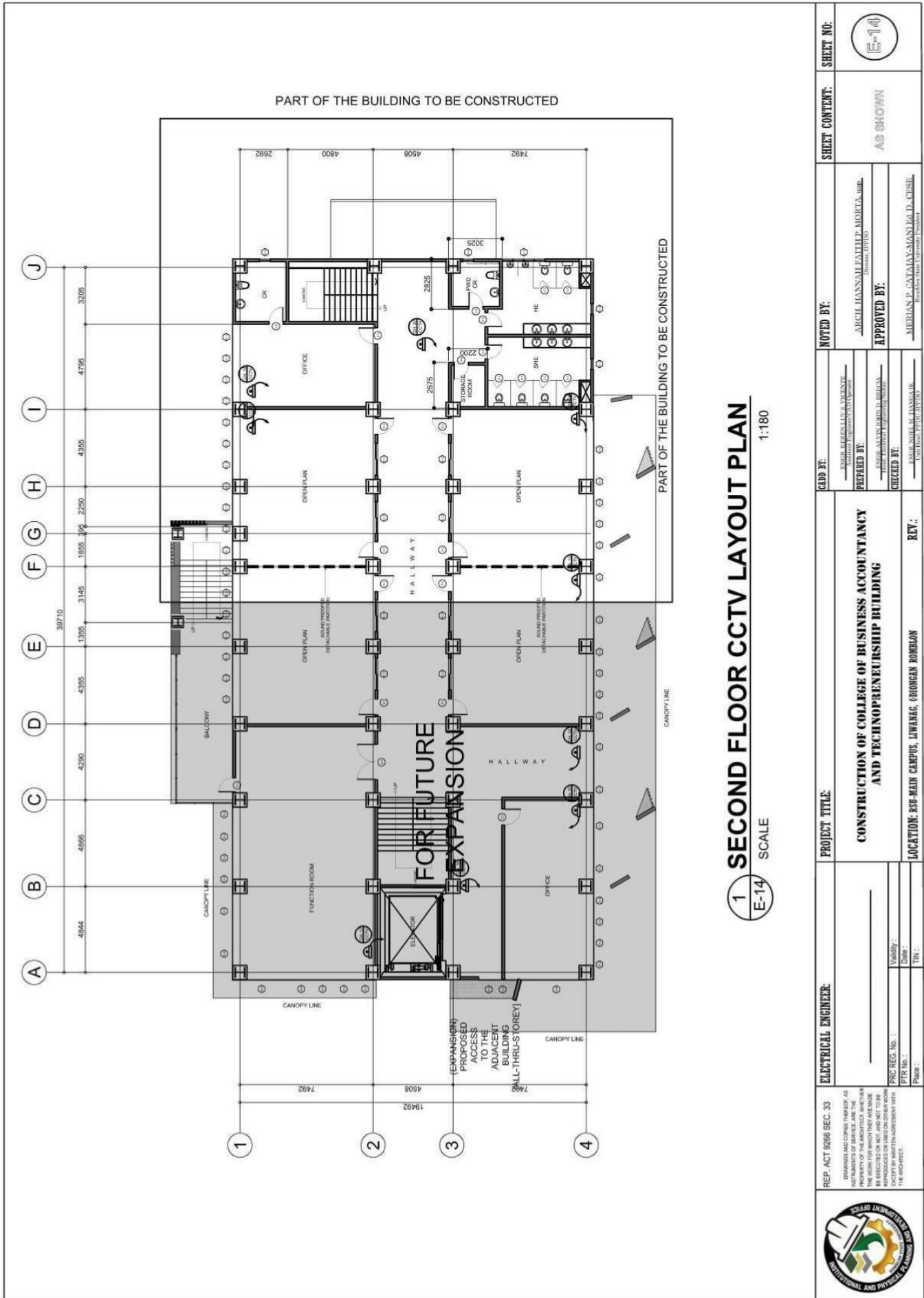E-11

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① FOURTH FLOOR FIRE ALARM LAYOUT
E-20 SCALE 1:180

FOR FUTURE EXPANSION

SHEET NO:	E-20
SHEET CONTENT:	AS SHOWN

NOTED BY:

ARCH. HANNAH FAITH P. MORTA, uap
Director, IPPDO

PREPARED BY:

ENGR. ALVIN JOHN D. SPECIA
Project Electrical Engineering Building

CHECKED BY:

ENGR. NOEL M. TANSIGAR
Unit Head, PPDU-IPPDO

APPROVED BY:

MERIAN P. CATALUNA-MANUEL, D. CRSE.
Romblon State University President

CADD BY:

ENGR. JEFFERSON S. VICENTE
Assistant Engineer CADD Operator

PROJECT TITLE:

CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

REV.:

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON

ELECTRICAL ENGINEER:

PRC REG No.	Validity
PTR No.	Date
Place :	TIN :

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Romblon State University
PANEL BOARD SCHEDULE

PROJECT : **CBAT**
DESIGNATION: **BUS BAR GUTTER**
SYSTEM: **230V, 1Ø, 60Hz**
MIN. I.C.:

PREPARED BY: **AJB**
ENCLOSURE : **NEMA 12**
MOUNTING : **WALL MOUNTED**
FEED   IN :
         OUT :

	Load Description	LOAD		CKT. PROTECTION				CONDUCTOR		RACEWAY			REMARKS
		VA	A	AT	AF	P	TYPE	SIZE (mm² x Qty)	GND	SIZE (mm Ø)	TYPE	LENGTH (m)	
1	TPP1	12722	55.28	100	100	2	THHN	22 x 2	8.0	25	PVC		
2	TPP2	12926	56.17	100	100	2	THHN	22 x 2	8.0	25	PVC		
	T O T A L	25,648.00	111.45										

Emergency Breaker : **150** AT. **150** AF. **2** P. **230** V
Feeder : **THHN 60mm² x 2, +E14.0 VIA PVC**
Calculation :

USE: 150AF bus terminal

Ic = 111.45A

If 111.45 x 1.25 = 139.31 A
Icb 111.45 x 1.25 = 139.31 A

Total KVA: = 25.64 kVA
@ 80% Transformer Loading Limit: = 32.05 kVA

USE: 1-37.5kVA, 7.6kV/230V/230V, 60Hz single phase pole mounted transformer

ELECTRICAL ENGINEER:

PRC REG. No.:
PTR No.:
Place:

Validity:
Date:
TIN:

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON
REV. :

CAD BY:
ENGR. KEREILH LEV A. VICENTE
Design Engineer/CAD Operator
PREPARED BY:
ENGR. ALVIN OSIN D. BEROA
Arch. & Electrical Engineering Services
CHECKED BY:
ENGR. JOSELITA TANGGA JR.
Env. Head, PPDO Services

NOTED BY:
ARCH. HANNAH FAITH P. MORTA, uap
Director, PPDO
APPROVED BY:
MERIAN P. CATALA-MANZEL D. CESE
Romblon State University President

SHEET CONTENT:
AS SHOWN

SHEET NO:
E-28

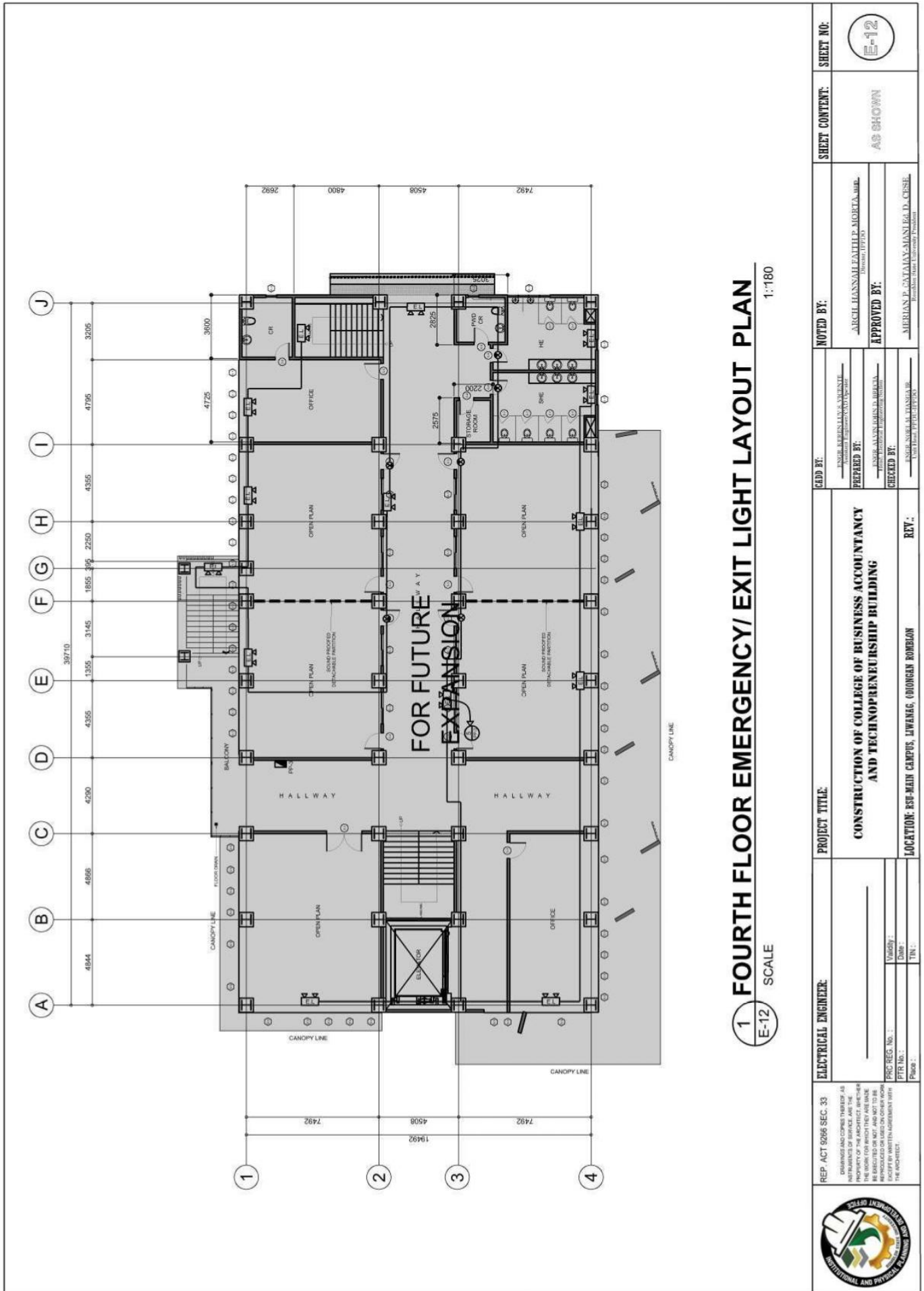# ROMBLON STATE UNIVERSITY
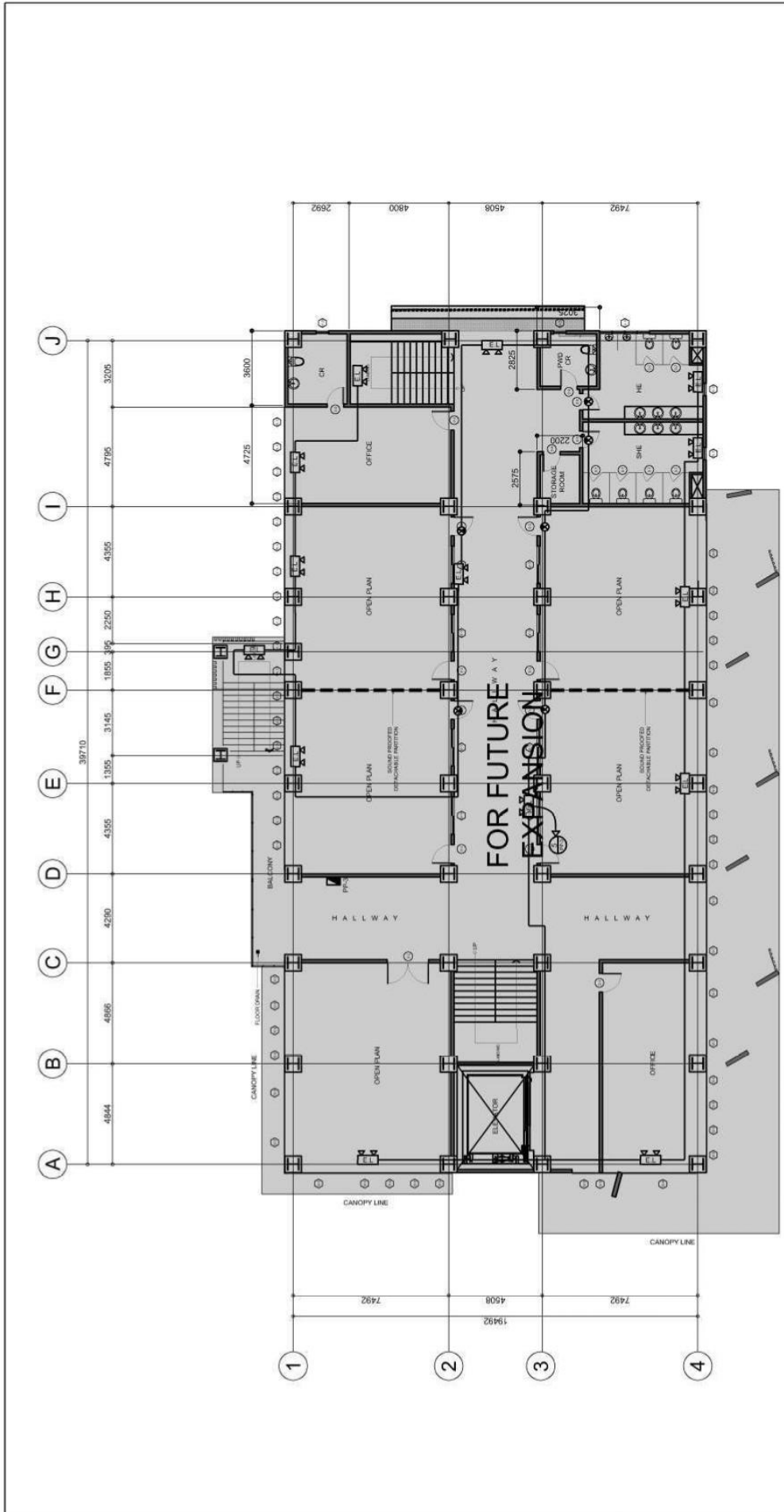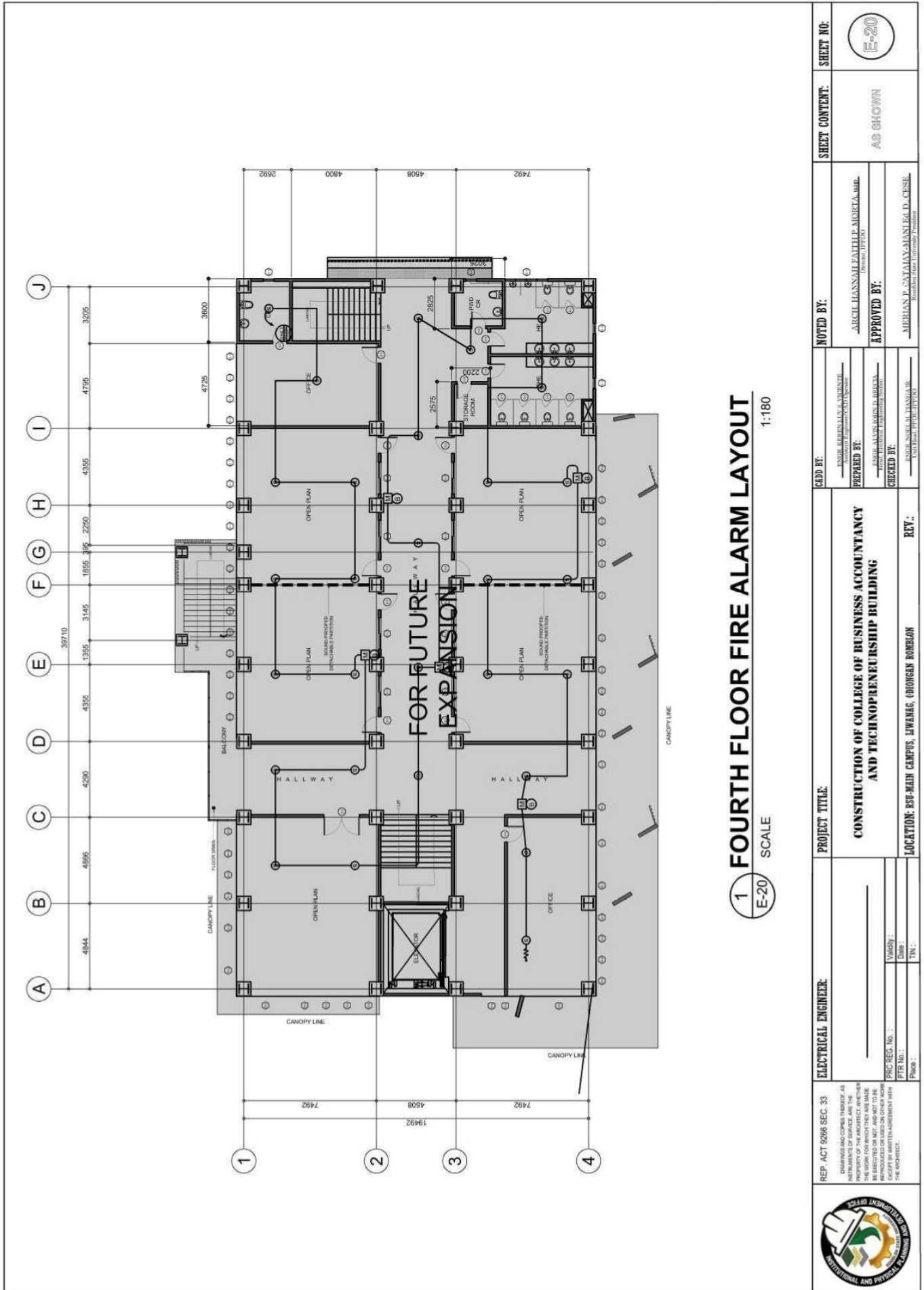BIDS AND AWARDS COMMITTEE

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Romblon State University
PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: TPP2
SYSTEM: 230V, 1Ø, 60Hz
MIN. I.C.:

PREPARED BY: AJB
ENCLOSURE : NEMA 12
MOUNTING : PAD MOUNTED
FEED   IN :
           OUT :

	Load Description	LOAD		CKT. PROTECTION			CONDUCTOR			RACEWAY			REMARKS
		VA	A	AT	AF	P	TYPE	SIZE (mm² x Qty.)	GND	SIZE (mm Ø)	TYPE	LENGTH (m)	
1	Lightings	524	2.28	20	50	2	THHN	2.0 x 2	2.0	15	PVC		
2	C.O. x 9	1620	7.04	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
3	Emergency Lights	60	0.26	20	50	2	THHN	2.0 x 2	2.0	15	PVC		
4	ACU 1.5hp	1398	6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC		
5	ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
6	ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
7	ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
8	ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
	T O T A L	12,926.00	56.17										

Main Breaker   :   100 AT.   100 AF.   1 P.   230 V
Feeder   :   THHN 22mm² x 2, +E8.0 VIA PVC
Calculation   :

Ic   = 56.17A

If   56.17 x 1.25   = 70.875 A
Icb   56.17 x 1.25 + 2.5*10.13   = 96.2 A

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ELECTRICAL ENGINEER	PROJECT TITLE:	CADD BY:	NOTED BY:	SHEET CONTENT:	SHEET NO:
PRC REG No. : Validity:	CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	ENGR. KEREN LUV S. VICENTE *Relevant Register/CADD Operator*	ARCH. HANNAH FAITH F. MORTA *Engr.*	AS SHOWN	E-27
PTR No.: Date:		PREPARED BY: ENGR. ANABEL CHILD BERGA *HOCE, Electrical Engineering, School*	APPROVED BY:		
Place: TIN:	LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON REV.:	CHECKED BY: ENGR. JOSHUA TIANGA JR. *Cam Buag, PBD/IPPDO*	MERIAN P. CATAIAN-MANTE-A D. CESE *Romblon State University President*		

Romblon State University
PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: TPP1
SYSTEM: 230V, 1Ø, 60Hz
MIN. I.C.:

PREPARED BY: AJB
ENCLOSURE : NEMA 12
MOUNTING : PAD MOUNTED
FEED IN :
OUT :

	Load Description	LOAD		CKT. PROTECTION			CONDUCTOR			RACEWAY			REMARKS
		VA	A	AT	AF	P	TYPE	SIZE (mm^2 x Qty)	GND	SIZE (mmØ)	TYPE	LENGTH (m)	
1	Lightings	500	2.17	20	50	2	THHN	2.0 x 2	2.0	15	PVC		
2	C.O. x 8	1440	6.26	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
3	Emergency Lights	60	0.26	20	50	2	THHN	2.0 x 2	2.0	15	PVC		
4	ACU 1.5hp	1398	6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC		
5	ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
6	ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
7	ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
8	ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
	T O T A L	**12,722.00**	**55.28**										

Main Breaker : 100 AT. 100 AF. 1 P. 230 V
Feeder : THHN 22mm² x 2, +E8.0 VIA PVC
Calculation :

Ic = 55.28A

If 55.28 x 1.25 = 69.1 A
Icb 55.28 x 1.25 + 2.5*10.13 = 94.43 A

ELECTRICAL ENGINEER:
PRC REG No. :
PTR No. :
Place :
Validity
Date
TIN:

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON

REV. :

CADD BY: ENGR. KEREN IZA S. VICENTE
PREPARED BY: ENGR. AVRIL JOHN G. BROZA
CHECKED BY: ENGR. JOCELLE N. TANGA JR.

NOTED BY: ARCH. HANNAH FAITH P. MORTA
APPROVED BY: MERLIAN P. CATALAY-MANTE

SHEET CONTENT: AS SHOWN

SHEET NO: E-26

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Romblon State University
PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: MDP (future)
SYSTEM: 400V, 3Ø, 60HZ
MIN. I.C:

PREPARED BY: AJB
ENCLOSURE : NEMA 12
MOUNTING : PAD MOUNTED
FEED   IN :
       OUT :

#	Load Description	LOAD Total (VA)	AMPERES 3Ø	OAN	OBN	OCN	CKT. PROTECTION AT	AF	P	CONDUCTOR TYPE	SIZE (mm²x Cu)	GND	RACEWAY SIZE (mm Ø)	TYPE	LENGTH (m)	REMARKS
1	PP1	30,233.00	0	43.07	43.03	45.25	100	110	3	THHN	22 x 4	8.0	15	PVC		
2	PP2	33,662.00	0	50.99	47.05	50.56	100	110	3	THHN	22 x 4	8.0	15	PVC		
3	PP3	37,424.00	0	58.89	50.8	52.87	100	110	3	THHN	22 x 4	8.0	15	PVC		
5	PP4	38,394.00	0	58.94	51.28	56.77	100	110	3	THHN	22 x 4	8.0	15	PVC		
6	Elevator	20,000.00	28.86				60	60	3	THHN	8.0 x 4	3.5	15	PVC		
7	Fire Pump (jockey)	1865			8.11		30	30	1	THHN	3.5 x 2	2.0	15	PVC		
8	water pump	2500			10.86		30	30	1	THHN	3.5 x 2	2.0	15	PVC		
9	Spare	1500				6.52	30	30	3	THHN						
10	Space									THHN						
	T O T A L	165,578.00	28.86	211.89	211.13	211.97										

Ic   28.86+(211.97)   = 240.83 A
@ 80% DF
240.83*0.8   = 192.66 A
If   (192.66-58.94)+(1.25*58.94)   = 207.39 A
Icb   (192.66-58.94)+100   = 233.72 A

total kVA: = 165.57 kVA

@ 80% Demand Factor: = 132.45 kVA
@ 80% TR Loading Limit: = 165.57 kVA
@ 70% Genset Loading Limit: = 236.52 kVA

Main Breaker   :   250 AT.   250 AF.   3 P.
Feeder   :   THHN 1-125mm² x 3, + N125mm² +E22mm² VIA PVC Conduit
Calculation   :

USE: 250AF Neutral Bus Terminal

400 V

USE: 200kVA, 13.2kV/400V 3 phase with neutral, Pad mounted cabinet type oil immersed transformer
250kVA, 400V/230V,3 phase, 60Hz, Silent Type Diesel Generator

REP. ACT 9266 SEC. 33

ELECTRICAL ENGINEER
PRC REG No.:
PTR No.:
Place:

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING
LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON
REV.:

CADD BY:
ENGR. KOREN LUV S. VICENTE
Assistant Engineer/CAD Operator

PREPARED BY:
ENGR. ALVIN OSNIO HEEDA
CEO I, Electrical Engineering Section

CHECKED BY:
ENGR. RONALD D. TANGGA JR.
Unit Head, PPDO-DRRCO

NOTED BY:
ARCH. HANNAH FAITH P. MORTA sup
Director, PPDO

APPROVED BY:
MERIAN P. CATALAY-MANTLE A. D. CESE
Romblon State University President

SHEET CONTENT: AS SHOWN

SHEET NO: E-25

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Romblon State University
PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: PP4 (future)
SYSTEM: 400V, 3Ø, 60HZ
MIN. I.C.:

PREPARED BY:
ENCLOSURE : AJB / NEMA 12
MOUNTING : PAD MOUNTED
FEED IN :
OUT :

	Load Description	VA	LOAD AMPERES				CKT. PROTECTION			CONDUCTOR			RACEWAY			REMARKS
			3Ø	ØAN	ØBN	OCN	AT	AF	P	TYPE	SIZE (mm² x Qty)	GND	SIZE (mm Ø)	TYPE	LENGTH (m)	
1	Lightings	510		2.22			20	50	1	THHN	2.0 x 2	2.0	15	PVC		
2	Lightings	516			2.4		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
3	C.O. x 8	1440				6.3	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
4	C.O. x 15	2700				11.7	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
5	Emergency Lights	60			0.26		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
6	ACU 2.0hp	1865		8.1			20	50	1	THHN	3.5 x 2	2.0	15	PVC		
7	ACU 2.0hp	1865		8.1			20	50	1	THHN	3.5 x 2	2.0	15	PVC		
8	ACU 2.0hp	1865			8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
9	ACU 2.0hp	1865				8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
10	ACU 1.5hp	1398				6.07	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
11	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
12	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
13	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
14	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
15	ACU 2.5hp	2331				10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
16	ACU 2.5hp	2331				10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
17	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
18	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
19	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
20	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
11	Spare	1000				4.34	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
12	Space							50	1							
	T O T A L	**38,394.00**	-	58.94	51.28	56.77										

Ic   0+(58.94)   = 58.94 A
@ 80% DF   58.94*0.8   = 47.15 A
If   (47.15-10.13)+(1.25*10.13)   = 49.68A
Icb   (47.15-10.13)+30   = 67.02 A

Main Breaker   :   100 AT.   100 AF.   3 P.   400V V
Feeder   :   THHN 1-22mm² x 3, + N22mm² +E8.0mm² VIA PVC conduit
Calculation   :

USE: 100AF Neutral Bus

REP. ACT 9266 SEC. 33

ELECTRICAL ENGINEER:
PRC REG No. :
PTR No. :
Place :
Validity
Date
TIN:

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING
LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON
REV. :

CAD BY:
ENGR. KERBH IZAY S. VICENTE
PREPARED BY:
ENGR. AMERLYN D. BEROIA
CHECKED BY:
ENGR. MOTHAM TIANGA JR.

NOTED BY:
ARCH. HANNAH FAITH P. MORTA
APPROVED BY:
MERLIAN P. CATALAN-MANES D. CESE

SHEET CONTENT: AS SHOWN
SHEET NO: E-24

ROMBLON STATE UNIVERSITY
BIDS AND AWARDS COMMITTEE
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Telephone: (042) 567-5952
Email: bac@rsu.edu.ph
Website: rsu.edu.ph

Romblon State University
PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: PP3 (future)
SYSTEM: 400V, 3Ø, 60HZ
MIN. I.C.:

PREPARED BY:
ENCLOSURE : AJB
MOUNTING : NEMA 12 / PAD MOUNTED
FEED IN :
OUT :

#	Load Description	VA	LOAD 3Ø	OAN	OBN	OCN	AT	AF	P	COND. TYPE	SIZE (mm²x Qty)	GND	RACEWAY SIZE (mmØ)	TYPE	LENGTH (m)	REMARKS
1	Lightings	500		2.17			20	50	1	THHN	2.0 x 2	2.0	15	PVC		
2	Lightings	456			1.98		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
3	C.O. x8	1440				6.3	30	50	1	THHN	3.5 x 7	2.0	15	PVC		
4	C.O. x10	1800				7.8	30	50	1	THHN	3.5 x 7	2.0	15	PVC		
5	Emergency Light	60			0.2		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
6	ACU 2.0hp	1865		8.1			20	50	1	THHN	3.5 x 2	2.0	15	PVC		
7	ACU 2.0hp	1865		8.1			20	50	1	THHN	3.5 x 2	2.0	15	PVC		
8	ACU 2.0hp	1865			8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
9	ACU 2.0hp	1865				8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
10	ACU 1.5hp	1398				6.07	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
11	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
12	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
13	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
14	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
15	ACU 2.5hp	2331				10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
16	ACU 2.5hp	2331				10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
17	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
18	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
19	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
20	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
11	Spare	1000				4.34	30	50	1							
12	Space							50	1							
	TOTAL	**37,424.00**	-	**58.89**	**50.80**	**52.87**										

Ic   0+(58.89)   = 58.89 A
@ 80% DF   58.89*0.8   = 47.11 A
If   (47.11-10.13)+(1.25*10.13)   = 49.64 A
Icb (47.11-10.13)+30   = 66.98 A

Main Breaker : 100 AT. 100 AF. 3 P. 400V V
Feeder : THHN 1-22mm² x 3, + N22mm² +E8.0mm² VIA PVC conduit
Calculation :

USE: 100AF Neutral Bus

REP. ACT 9266 SEC. 33

PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING
LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON
REV. :

ELECTRICAL ENGINEER:
PRC REG. No. :
PTR No. :
Place:
Validity:
Date:
TIN:

CAD BY:
PREPARED BY: ENGR. KERREN LYN S. VICENTE — Assistant Engineer/CAD Operator
CHECKED BY: ENGR. RGDY M. TANGGA JR. — Chief, Building Design Section

NOTED BY: ARCH. HANNAH FAITH P. MORTA, uap — Director, IPPSO
APPROVED BY: MERIAN P. CATALUÑA-MANTES, D. CESE — Romblon State University President

SHEET CONTENT: AS SHOWN
SHEET NO: E-23

ROMBLON STATE UNIVERSITY
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Website: rsu.edu.ph

Management System ISO 9001:2015
TÜVRheinland CERTIFIED — www.tuv.com ID 9000018803

Romblon State University
PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: PP2 (future)
SYSTEM: 400V, 3Ø, 60HZ
MIN. I.C.:

PREPARED BY:
ENCLOSURE : AJB / NEMA 12
MOUNTING : PAD MOUNTED
FEED IN :
OUT :

#	Load Description	LOAD VA	3Ø	ØAN	ØBN	OCN	AT	AF	P	Cond. TYPE	SIZE (mm² x Qty)	GND	Raceway SIZE (mmØ)	TYPE	LENGTH (m)	REMARKS
1	Lightings	500		2.17			20	50	1	THHN	2.0 x 2	2.0	15	PVC		
2	Lightings	456			1.98		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
3	C.O. x8	1440				6.3	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
4	C.O. x7	1260				7.8	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
5	C.O. x8	1440			6.3		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
6	Emergency Lights	60		0.2			20	50	1	THHN	2.0 x 2	2.0	15	PVC		
7	ACU 2.0hp	1865		8.1			20	50	1	THHN	3.5 x 2	2.0	15	PVC		
8	ACU 2.0hp	1865			8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
9	ACU 2.0hp	1865				8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
10	ACU 1.5hp	1398			6.07		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
11	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
12	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
13	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
14	ACU 2.5hp	2331				10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
15	ACU 2.5hp	2331				10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
16	ACU 2.5hp	2331			10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
17	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
18	ACU 2.5hp	2331		10.13			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
19	Spare	1000			4.34		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
20	Space							50	1							
	TOTAL	33,662.00	-	50.99	47.05	50.56										

Ic = 0+(60) = 60 A
@ 80% DF = 60*0.8 = 48 A
If = (48-10.13)+(1.25*10.13) = 50.53A
Icb = (48-10.13)+30 = 67.87 A

Main Breaker : 100 AT. 100 AF. 3 P. 400V V
Feeder : THHN 1-22mm² x 3, + N22mm² +E8.0mm² VIA PVC conduit
Calculation :

USE: 100AF Neutral Bus

REP. ACT 9266 SEC. 33

ELECTRICAL ENGINEER:
ENGR. KEREN LYN S. VICENTE — Assistant Engineer/OAS-Operator
PRC REG. No.:
PTR No.:
Place:
Validity:
Date:
TIN:

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING
LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON
REV.:

CADD BY:
PREPARED BY:
ENGR. ANGEL ARBBIE BERCIA — Head, Planning & Design Section
CHECKED BY:
ENGR. JOSEPH TIANGCO AR — Chief Engr, PPMO/PPDO

NOTED BY:
ARCH. HANNAH FAITH P. MORTA uap — Director, PPPDO
APPROVED BY:
MERIAN P. CATAYA-MANTAL D. CESE — Romblon State University President

SHEET CONTENT: AS SHOWN
SHEET NO: E-22

ROMBLON STATE UNIVERSITY
BIDS AND AWARDS COMMITTEE

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Management System
ISO 9001:2015

TÜVRheinland CERTIFIED
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ID 9000018803

Romblon State University
PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: PP1 (future)
SYSTEM: 400V, 3Ø, 60HZ
MIN. I.C.:

PREPARED BY: AJB
ENCLOSURE : NEMA 12
MOUNTING : PAD MOUNTED
FEED   IN :
         OUT :

	Load Description	LOAD							CKT. PROTECTION				CONDUCTOR				RACEWAY			REMARKS
		VA	AMPERES						AT	AF	P	TYPE	SIZE (mm² x Qty)	GND	TYPE	SIZE (mm Ø)	LENGTH (m)	TYPE		
			3Ø	OAN	OBN	OCN														
1	Lightings	524		2.27					20	50	1	THHN	2.0 x 2	2.0	PVC	15				
2	Lightings	458			2				20	50	1	THHN	2.0 x 2	2.0	PVC	15				
3	C.O. x 9	1620				7.04			30	50	1	THHN	3.5 x 2	2.0	PVC	15				
4	C.O. x 10	1800				7.82			30	50	1	THHN	3.5 x 2	2.0	PVC	15				
5	Emergency Light	55			0.24				20	50	1	THHN	2.0 x 2	2.0	PVC	15				
7	ACU 2.0hp (phase2)	1865		8.1					20	50	1	THHN	3.5 x 2	2.0	PVC	15				
8	ACU 2.0hp (phase2)	1865		8.1					20	50	1	THHN	3.5 x 2	2.0	PVC	15				
9	ACU 1.5hp (phase1)	1398			6.07				20	50	1	THHN	3.5 x 2	2.0	PVC	15				
10	ACU 2.5hp	2331				10.13			30	50	1	THHN	3.5 x 2	2.0	PVC	15				
11	ACU 2.5hp	2331				10.13			30	50	1	THHN	3.5 x 2	2.0	PVC	15				
12	ACU 2.5hp	2331			10.13				30	50	1	THHN	3.5 x 2	2.0	PVC	15				
13	ACU 2.5hp	2331		10.13					30	50	1	THHN	3.5 x 2	2.0	PVC	15				
14	ACU 2.5hp	2331		10.13					30	50	1	THHN	3.5 x 2	2.0	PVC	15				
15	ACU 2.5hp	2331			10.13				30	50	1	THHN	3.5 x 2	2.0	PVC	15				
16	ACU 2.5hp	2331				10.13			30	50	1	THHN	3.5 x 2	2.0	PVC	15				
17	ACU 2.5hp	2331			10.13				30	50	1	THHN	3.5 x 2	2.0	PVC	15				
18	Fire Alarm Control Panel	1000		4.34					30	50	1	THHN	3.5 x 2	2.0	PVC	15				
19	Spare	1000			4.34				30	50	1	THHN								
20	Space									50	1	THHN								
	T O T A L	30,233.00	-	43.07	43.04	45.25														

Ic   0+(60)   = 60 A
@ 80% DF
     60*0.8   = 48 A
If   (48-10.13)+(1.25*10.13)   = 50.53A
Icb   (48-10.13)+30   = 67.87 A

Main Breaker :
Feeder   :
Calculation   :

USE: 100AF Neutral Bus

100 AT.   100 AF.   3 P.   400V   V
THHN 1-22mm² x 3, + N22mm² +E8.0mm² VIA PVC conduit

ELECTRICAL ENGINEER
PRC REG No. :
PTR No. :
Place :

PROJECT TITLE:

CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN, ROMBLON
Validity :
Date :
TIN:
REV.:

CADD BY:
ENGR. KIRREN LYN S. VICENTE
Nativus Engineer/CADO Operator
PREPARED BY:
ENGR. ALAN LORLIE REICOA
RSU-Electrical Engineering School
CHECKED BY:
ENGR. AGUSTIN A. TANGGAL JR.
Civil Engineer/SPES Engineer

NOTED BY:
ARCH. HANNAH FAITH P. MORTA, uap
Director, IPPDO
APPROVED BY:
MERIAN P. CATAIN-MANLEN D. CESE
Romblon State University President

SHEET CONTENT:
AS SHOWN

SHEET NO:
E-21

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ID 9000018803

SINGLE LINE DIAGRAM

1:180

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING

LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON

SHEET NO: E-29

Please be advised that this bid bulletin is issued to amend the Electrical Plan in all attached/associated documents. This shall be an integral part of the Bid Documents.

For information and guidance of all concerned.

ATTY. GLENN NIÑO M. SARTILLO
BAC Chairperson