	MARIANO MARCOS STATE UNIVERSITY Procurement Division		Document Code	PD-FRM-002
	Request for Quotation (RFQ) (Goods and Services)		Revision No.	5
			Effectivity Date	April 20, 2022

REQUEST FOR QUOTATION (RFQ)

Date: July 6, 2022
 PR No. 2022-07-079 (06207512)

Sir/Madam:

Please quote your lowest price on the item/s listed below, and submit your quotation duly signed by you or your duly authorized representative not later than **3 days** subject to the Terms and Conditions provided at the last page of this RFQ.

Delivery period must be at least within **30 days** upon receipt of the Notice to Proceed or Purchase Order.

For any clarification, you may email us at bac@mmsu.edu.ph.


NATHANIEL R. ATRIBUYOG
 BAC Chair

ITEM	QTY	Unit	ITEM DESCRIPTION	ABC/unit	UNIT PRICE
	1	lot	Supply Delivery and Installation of three (3) Air-Conditioning System for SIP Hub, MMSU, Crty of Batac, Ilocos Norte	540,000.00	
			AIR-CONDITION		
			1 unit- Floor Mounted Split Type 1φ-60Hz-220V (Inverter), Rated Cooling Capacity= 3 TR (36,000 btuh)		
			2 unit- Ceiling Suspended Split Type 1φ-60Hz-220V (Inverter), Rated Cooling Capacity= 3 TR (36,000 btuh)		
			ELECTRICAL SUPPLY		
			6 pcs- PVC Adapter w/ Locknut (Orange), 20mmø		
			6 pcs- PVC Pipe (Orange) Thick Wall, 20mmø		
			12pcs- PVC Long Elbow (Orange) Thick Wall, 20mmø		
			5 pcs- PVC Adapter w/ Locknut (Orange), 25mmø		
			2 pcs- PVC Pipe (Orange) Thick Wall, 25mmø		

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			2 pcs- PVC Long Elbow (Orange) Thick Wall, 25mmØ	
			34 pcs- Clamp and Support w/ Tox and Metal Screw	
			6 pcs- uPVC Electric Wire Moulding, 20mmx16mm, white	
			1.50 rolls- 5.5mm ² THHN	
			3 pcs- Utility Box, PVC, Surface Type, White	
			3 pcs- ACU Outlet, 220Vac	
			8 pcs- Square Box, 4x1 ¼, PVC	
			1 pc- Square Box, 4x11/16, PVC	
			1 pc- Butane Gas	
			1 can- PVC Solvent Cement (400cc)	
			1 kl- Duct Sealant	
			5 rolls- Electrical Tape, Big	
			1 box- Tox w/ Stainless Screw, 1" (50' s)	
			Note: Please conduct actual site visit before quotation	
			Include installation of Electrical Supply, excess copper tubes and other materials	
			(with testing and commissioning)	

TOTAL ESTIMATED BUDGET: 540,000.00

REMARKS/NOTE: _____

After having carefully read and accepted your Terms and Conditions, I/we submit our quotation/s on the item/s at prices indicated above.

Business Name: _____
 Business Address: _____
 Printed Name of the Owner: _____
 TIN: _____
 PhilGEPS Registration Number: _____
 Business Permit: _____
 Omnibus Sworn Statement: _____
 Annual Income Tax Return: _____

Canvassed by: _____

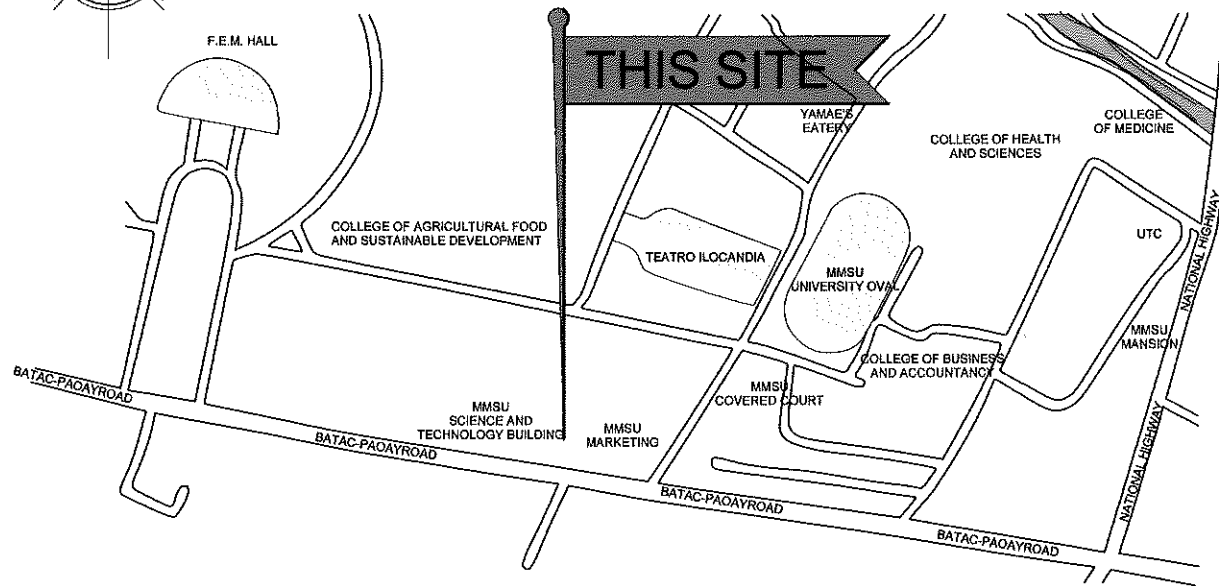
Signature over Printed Name

Tel. No./Cellphone No./e-mail address

Date







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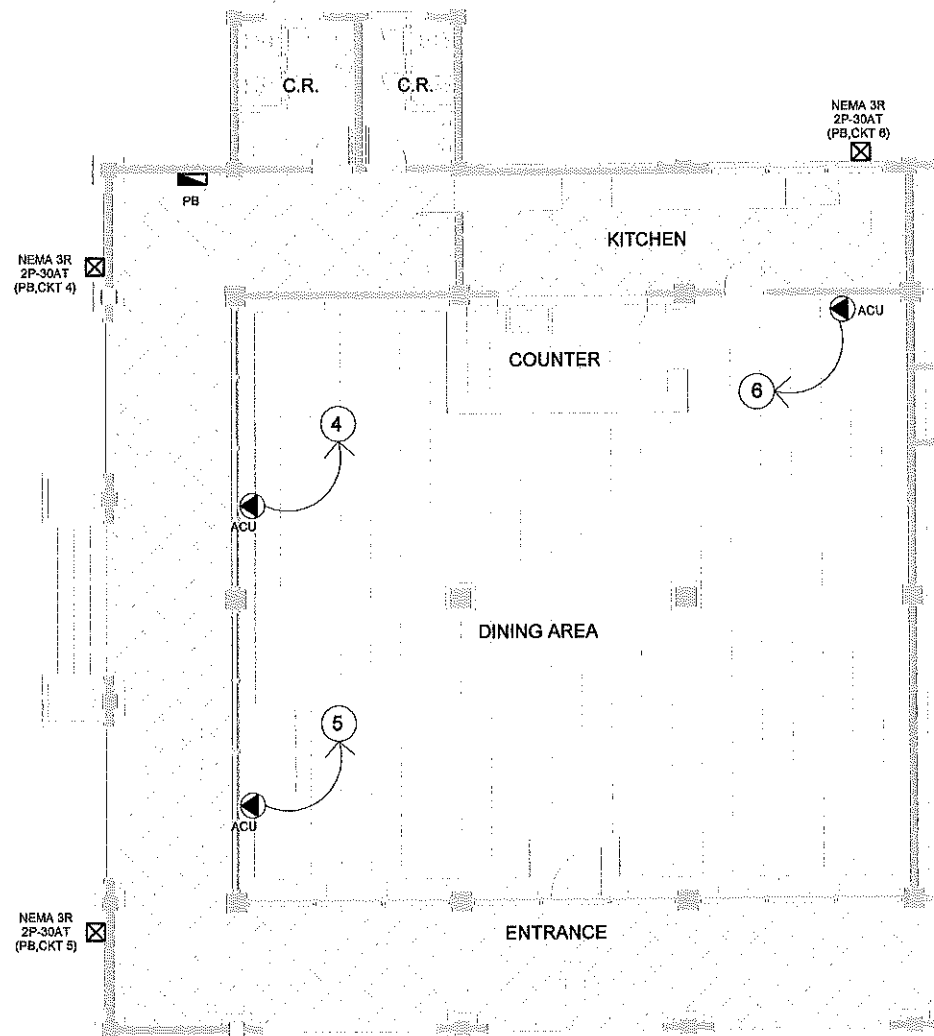
1. All works herein shall be done in accordance with the pains and specifications. The applicable provisions of the latest edition of the Philippine Electrical Code, the rules and regulation of the local enforcing authority, and the requirements of the local power the electrical works shall be under the immediate supevision of a duly Register Electrical Engineer / Registered Master Electrician.
2. Power service to the premises shall be 230 volts ac, three phase, 4 wire system, 60 htz ac.
3. The contractor shall be verify and orient the actual location of service entrance of connection to the power supply.
4. Conduits shall have a minimum diameter of 20mm electrical size per pec. as necessary, provide consult size in compliance with maximum conduit fill allowed by the pec.
5. All conduit installed below ground or embedded in floor or wall shall be pvc.
6. All service entrance equipment, switches, panel boards, lighting fixtures, outlets and all non-current carrying metals parts shall be properly grounded in accordance with the latest edition of the Philippines Electrical Code.
7. All homeruns to panelboards more than 30 meters in length shall be one step larger unless otherwise specified.
8. All feeders shall be installed as indicated on plans branch circuit homerun wires shall be installed in individual homerun conduits.
9. Any discrepancy in location and rating of equipment and apparatus shall be verified with the proper authority and changes shall be made accordingly.
10. All materials to be used and the equipment to be installed shall be brand new and must be of the approved type for the particular location and purpose intended and free from all dangers.
11. The mounting heights of wiring devices shall be as follows:
 - a. Light switches - 1.40m above finished floor
 - b. Convenience outlets - 0.30m above finished floor or as required
 - c. Acu outlets - 0.50m below ceiling line or as required
 - d. Panelboards - 1.80m above finished floor center
 - e. Nema 3r enclosure - 1.40m above finished floor or as required
12. No alternation shall be done in the plan unless noted by the designer and owner.
13. All electrical works / installations shall be done in standard workmanship manner with skilled manpower and duly supervised by a Registered Electrical Engineer.
14. Refer to the accompanying notes and specifications for more complete description / requirements of this project.



LOCATION MAP



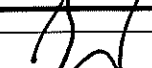



ELECTRICAL NOTES

	DRAWN BY: BJAY A. MAYANG DRAFTSMAN I	PROJECT TITLE: SUPPLY OF MATERIALS & INSTALLATION OF AIR-CONDITIONING UNIT AT S&T PARK	CONFORME:  MARLOWE J. AQUINO DIRECTOR, S & T PARK	SHEET CONTENT: 	SHEET NO:
	PREPARED BY:  JACOBO SANTILLAN ELECTRICAL ENGINEER	LOCATION: MMSU-S&T PARK, CITY OF BATAC, ILOCOS NORTE CHECKED/REVIEWED BY:  AIDA V. CABANG ARCHITECT IV, CHIEF-PHYSICAL PLANNING SECTION	RECOMMENDING APPROVAL:  ROMEO R. DULULAOG DIRECTOR, PDDG	APPROVED BY:  SHIRLEY C. AGRUPIS UNIVERSITY PRESIDENT	



ACU OUTLET LAYOUT PLAN

SCALE 1:150 m

	DRAWN BY:  BJAY A. DAYANG DRAFTSMAN I	PROJECT TITLE: SUPPLY OF MATERIALS & INSTALLATION OF AIR-CONDITIONING UNIT AT S&T PARK	CONFORME:  MARLOWE U. AQUINO DIRECTOR, S & T PARK	SHEET CONTENT:	SHEET NO.:
	LOCATION: MMSU-S&T PARK, CITY OF BATAC, ILOCOS NORTE		CHECKED/REVIEWED BY:  AIDA V. CABANG ARCHITECT IV, CHIEF-PHYSICAL PLANNING SECTION	RECOMMENDING APPROVAL:  ROMEO R. DULDULAO DIRECTOR, P&E	APPROVED BY:  SHIRLEY C. AGRUPIS UNIVERSITY PRESIDENT

PB (PANEL BOARD)

CIRCUIT NO.	LOAD DESCRIPTION	VA LOAD	CURRENT				CIRCUIT BREAKER			CONDUCTOR		CONDUIT	
			AB	CA	BC	3Ø	POLE	AF	AT	SIZE	TYPE	Ø	TYPE
1	1 - 1600VA HAND DRYER OUTLET	1600	6.98				2	125	40	2- 8.0mm ² & 1- 5.5mm ²	THHN	20mm	PVC
2	1 - 1600VA HAND DRYER OUTLET	1600		6.98			2	125	40	2- 8.0mm ² & 1- 5.5mm ²	THHN	20mm	PVC
3	1 - 3500VA RANGE OUTLET	3500			15.22		2	125	32	2- 5.5mm ² & 1- 3.5mm ²	THHN	20mm	PVC
4*	1 - 4.0HP INVERTER ACU OUTLET	4143	18.01				2	125	32	2- 5.5mm ² & 1- 3.5mm ²	THHN	20mm	PVC
5*	1 - 4.0HP INVERTER ACU OUTLET	4143		18.01			2	125	32	2- 5.5mm ² & 1- 3.5mm ²	THHN	20mm	PVC
6*	1 - 4.0HP INVERTER ACU OUTLET	4143			18.01		2	125	32	2- 5.5mm ² & 1- 3.5mm ²	THHN	20mm	PVC
7	8 - 180 VA CONVENIENCE OUTLET	1440	6.26				2	125	20	2- 3.5mm ² & 1- 2.0mm ²	THHN	20mm	PVC
8	1 - 1500VA SPO	1500		6.52			2	125	20	2- 3.5mm ² & 1- 2.0mm ²	THHN	20mm	PVC
9	1 - 1500VA FRYER OUTLET	1500			6.52		2	125	20	2- 3.5mm ² & 1- 2.0mm ²	THHN	20mm	PVC
10	1 - 1500VA FREEZER OUTLET	1500	6.52				2	125	20	2- 3.5mm ² & 1- 2.0mm ²	THHN	20mm	PVC
11	1 - 1HP ELECTRICAL PUMP OUTLET	1840		8.00			2	125	20	2- 3.5mm ² & 1- 2.0mm ²	THHN	20mm	PVC
12	1 - 1500VA SPO	1500			6.52		2	125	20	2- 3.5mm ² & 1- 2.0mm ²	THHN	20mm	PVC
13	1 - 1500VA LED COVE LIGHTING	1500	6.52				2	125	18	2- 3.5mm ² & 1- 2.0mm ²	THHN	20mm	PVC
14	1 - 1500VA LED COVE LIGHTING	1500		6.52			2	125	18	2- 3.5mm ² & 1- 2.0mm ²	THHN	20mm	PVC
15	SPACE												
16	1Ø - 5W LED DOWN LIGHT 7 - 36W LED PANEL LIGHT	342	1.48										
17	1 - 5HP EXHAUST FAN	5181				13.01	3	125	32	3- 5.5mm ² & 1- 3.5mm ²	THHN	20mm	PVC
18	1 - 3HP FA	2898				7.27	3	125	25	3- 5.5mm ² & 1- 3.5mm ²	THHN	20mm	PVC
19	SPACE												
20	SPACE												
21	2Ø - 5W LED DOWNLIGHT 4 - 2x18W LED FLUORESCENT LAMP 4 - 36W LED PANEL LIGHT 2 - 1W LED PANEL LIGHT	420			1.83		2	125	18	2- 3.5mm ² & 1- 2.0mm ²	THHN	20mm	PVC
22	SPACE												
23	4 - 6W LED WALL LAMP	24			0.10		2	125	18	2- 3.5mm ² & 1- 2.0mm ²	THHN	20mm	PVC
	TOTAL VA	40274	45.78	48.01	48.20	20.28							

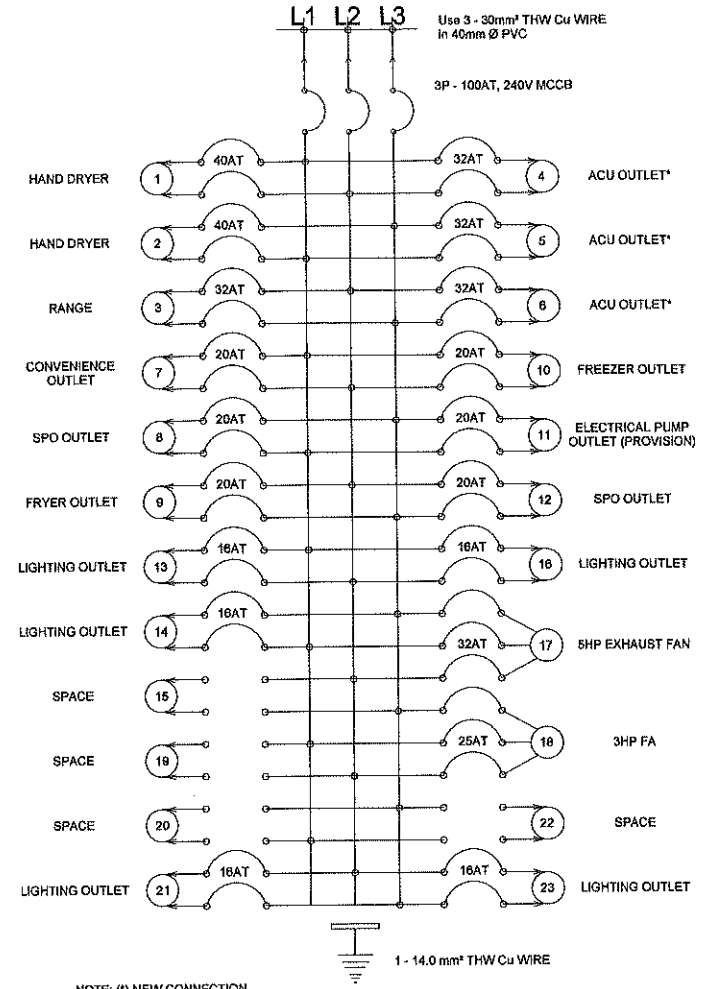
FEEDER CONDUCTOR
IFL = $\sqrt{3} (48.20A) + 20.28A$ @ 80% DF
= 83.01 A

USE: 3 - 30mm² & 1 - 14mm² THW Cu. wire in 40mmØ PVC

FEEDER PROTECTION
USE: 3 POLE 100AT, CIRCUIT BREAKER, 240VA, 125AF, 60Hz

NOTE: (*) NEW CONNECTION

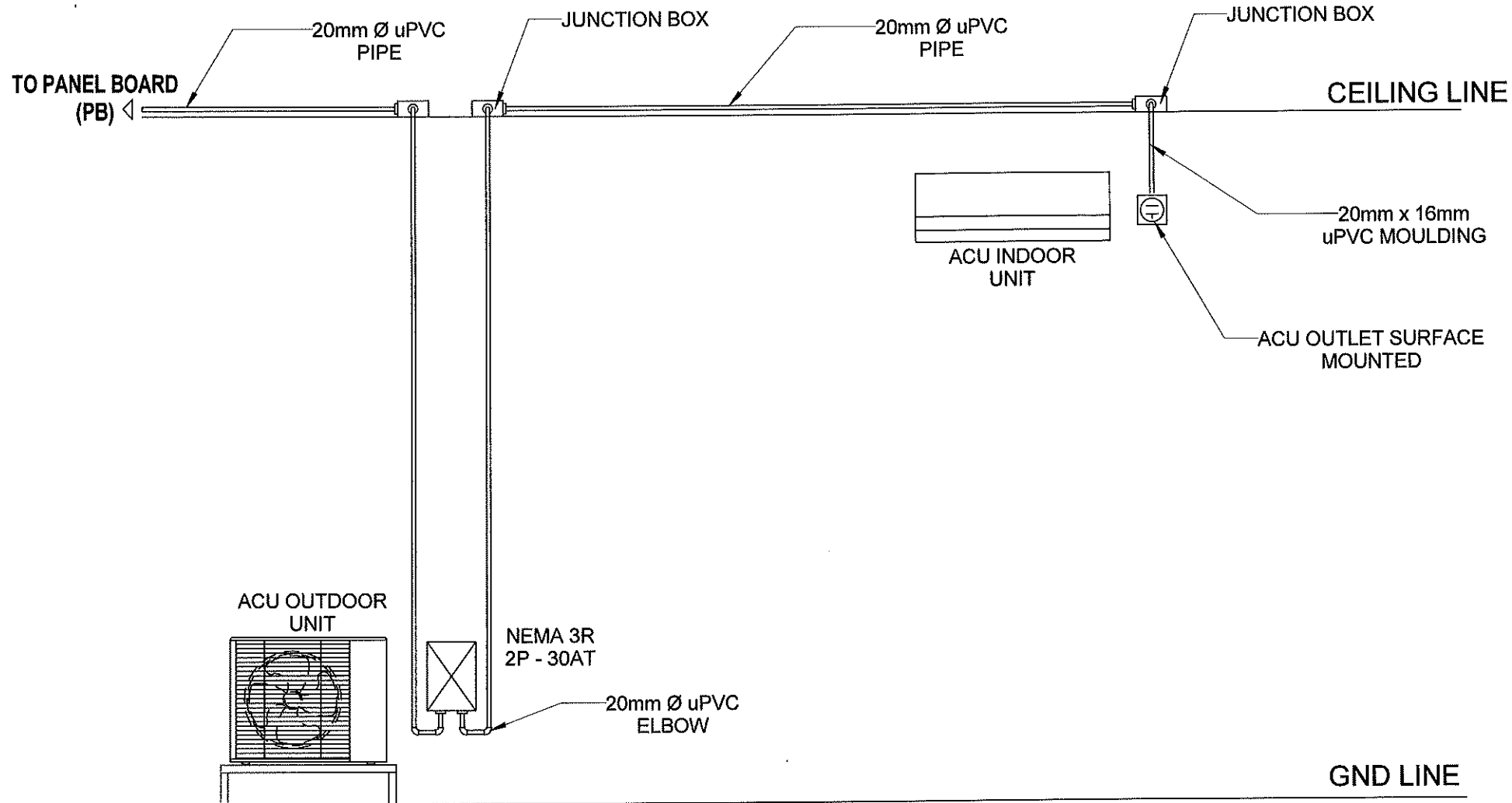
SCHEDULE OF LOADS




NOTE: (*) NEW CONNECTION

PANEL BOARD DIAGRAM

	DRAWN BY: BJAY A. DAYANG DRAFTSMAN I	PROJECT TITLE: SUPPLY OF MATERIALS & INSTALLATION OF AIR-CONDITIONING UNIT AT S&T PARK	CONFORME: MARLOWE J. AQUINO DIRECTOR, S & T PARK	SHEET CONTENT: _____	SHEET NO: _____
	PREPARED BY: JACOB AT SANTILLAN ELECTRICAL ENGINEER	LOCATION: MMSU-S&T PARK, CITY OF BATAC, LOCOS NORTE CHECKED/REVIEWED BY: AIDA V. CABANG ARCHITECT IV, CHIEF-PHYSICAL PLANNING SECTION	RECOMMENDING APPROVAL: ROMEO R. DULDULAO DIRECTOR, PPDO	APPROVED BY: SHIRLEY C. AGRUPIS UNIVERSITY PRESIDENT	



ACU ELECTRICAL CONNECTION
NOT TO SCALE

	DRAWN BY: BJAY A. DAYANG <small>DRAFTSMAN I</small>	PROJECT TITLE: SUPPLY OF MATERIALS & INSTALLATION OF AIR-CONDITIONING UNIT AT S&T PARK	CONFORME: MARLOWE U. AQUINO <small>DIRECTOR, S & T PARK</small>	SHEET CONTENT: 	SHEET NO:
	PREPARED BY: JACOB H. SANTILLAN <small>ELECTRICAL ENGINEER</small>	CHECKED/REVIEWED BY: AIDA V. CABANG <small>ARCHITECT IV, CHIEF-PHYSICAL PLANNING SECTION</small>	RECOMMENDING APPROVAL: ROMEO R. DULBULAO <small>DIRECTOR, PPDO</small>	APPROVED BY: SHIRLEY C. AGRUPIS <small>UNIVERSITY PRESIDENT</small>	

Air-Conditioning Unit Schedule								
Designation	Location	Qty	Description	Cooling Capacity			HP	V/hz/ph
				Btu/h	Kj/h	TR		
ACU 1	DINING AREA	2	Split Type Wall Hang - VFD Type (Inverter) Similar to Daikin, Kolin, Carrier or LG	36,000	38,160	3.0	4.0	230/60/1
ACU 2	DINING AREA	1	Split Type Floor Mount - VFD Type (Inverter) Similar to Daikin, Kolin, Carrier or LG	36,000	38,160	3.0	4.0	230/60/1

SCHEDULE OF EQUIPMENT

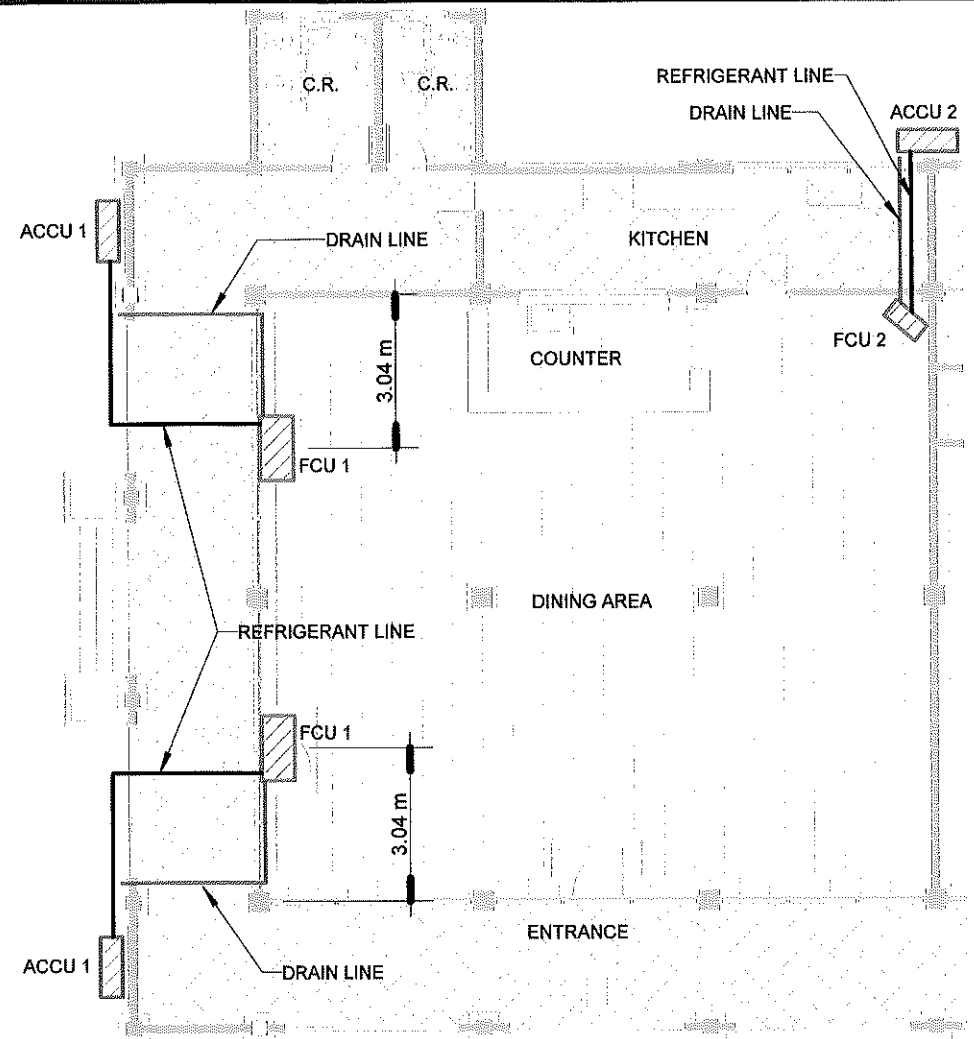
LEGEND:



- OUTDOOR UNIT (ACCU)



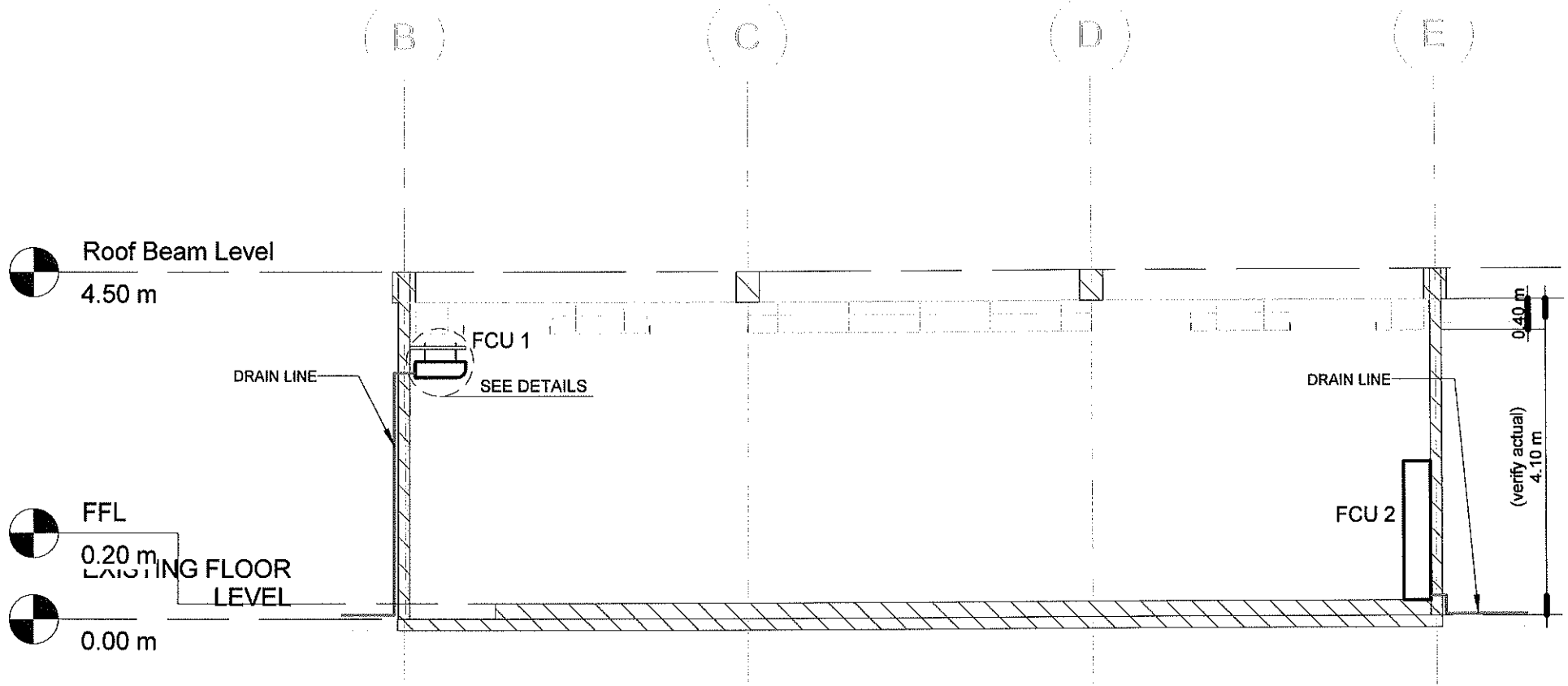
- INDOOR UNIT (FCU)




ACU LAYOUT PLAN

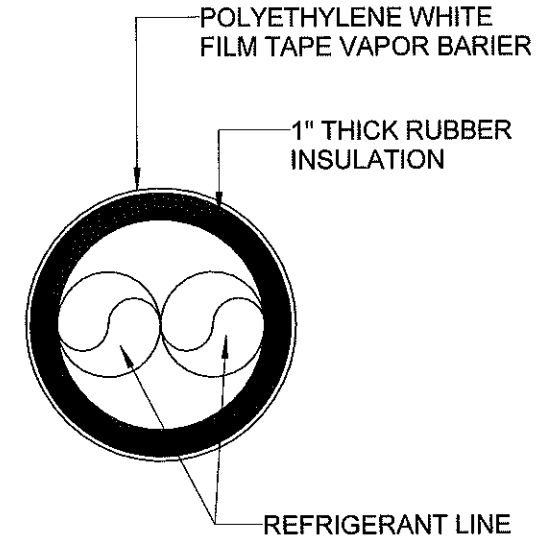
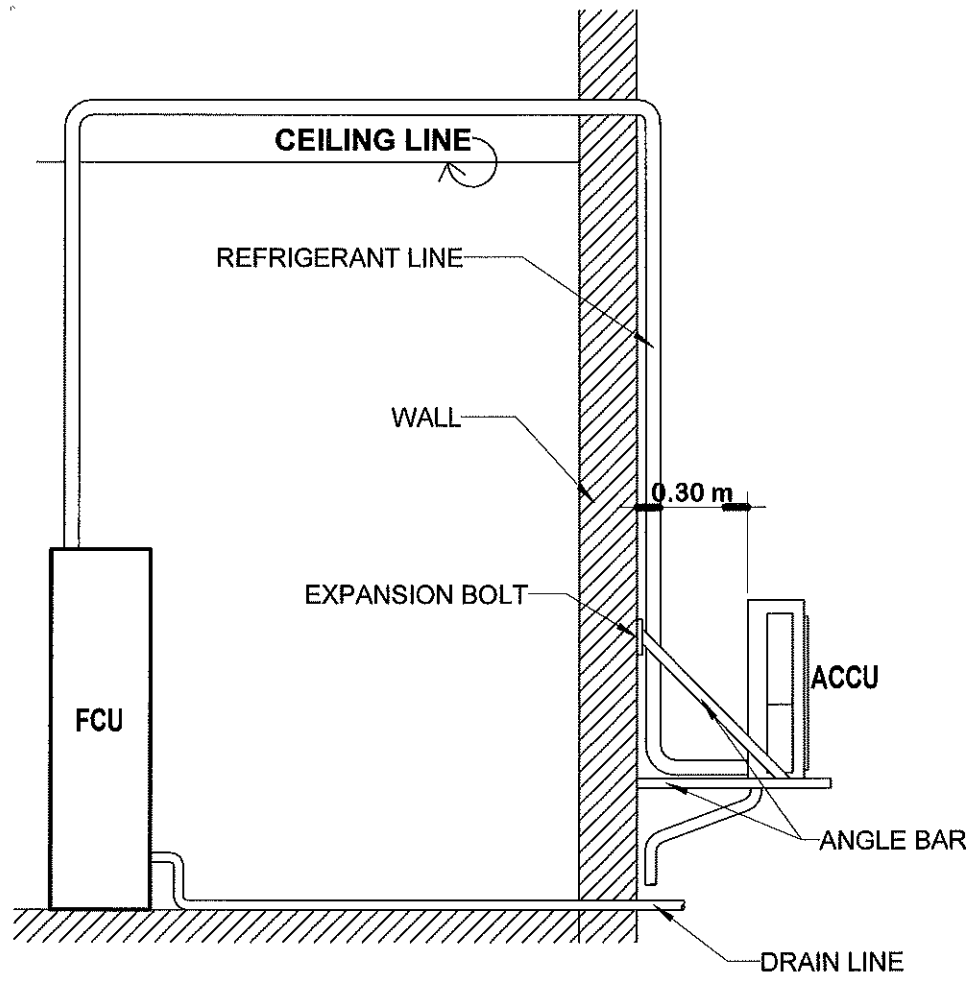
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	PREPARED BY: DENNIS CLYDE G. ACANTILADO MECHANICAL ENGINEER	CHECKED/REVIEWED BY: AIDA V. CABANG ARCHITECT IV, CHIEF-PHYSICAL PLANNING SECTION	RECOMMENDING APPROVAL: ROMEO R. DUCULAO DIRECTOR, UPBO	APPROVED BY: SHIRLEY C. AGRUPIS UNIVERSITY PRESIDENT	



SECTION DETAIL
SCALE 1:80 m







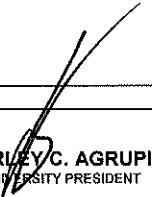
	DRAWN BY: BJAY A. CABANG DRAFTSMAN I	PROJECT TITLE: SUPPLY OF MATERIALS & INSTALLATION OF AIR-CONDITIONING UNIT AT S&T PARK	CONFORME: MARLOWE O. AQUINO DIRECTOR, S & T PARK	SHEET CONTENT:	SHEET NO.:
	PREPARED BY: DENNIS OLYDE G. ACANTILADO MECHANICAL ENGINEER	CHECKED/REVIEWED BY: AIDA V. CABANG ARCHITECT IV, CHIEF-PHYSICAL PLANNING SECTION	RECOMMENDING APPROVAL: ROMEO R. BILDURAO DIRECTOR, PPBO	APPROVED BY: SHIRLEY C. AGRUPIS UNIVERSITY PRESIDENT	



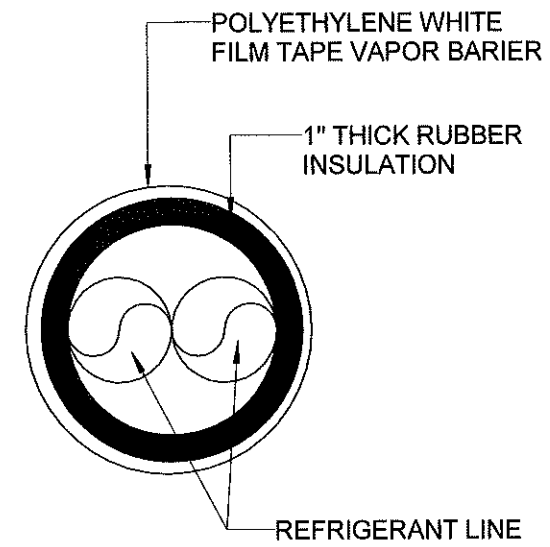
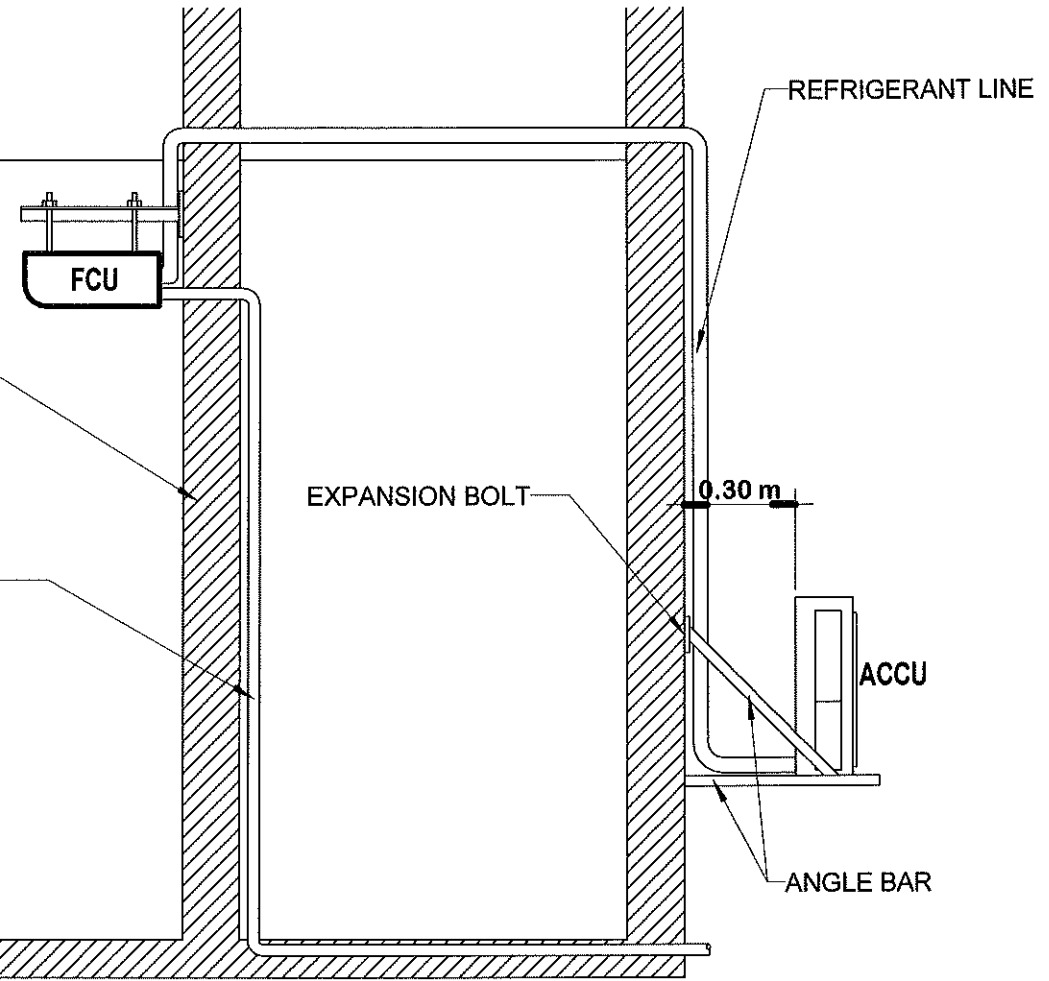
**REFRIGERANT LINE
DETAILS**

SIDE VIEW

ACU DETAIL
N T S

	DRAWN BY:  BJAY A. DAYANG DRAFTSMAN I	PROJECT TITLE: SUPPLY OF MATERIALS & INSTALLATION OF AIR-CONDITIONING UNIT AT S&T PARK	CONFORME:  MARLOWE J. AQUINO DIRECTOR S & T PARK	SHEET CONTENT:	SHEET NO.:
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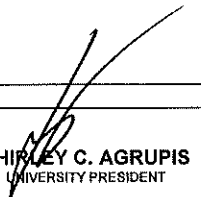
CEILING LINE

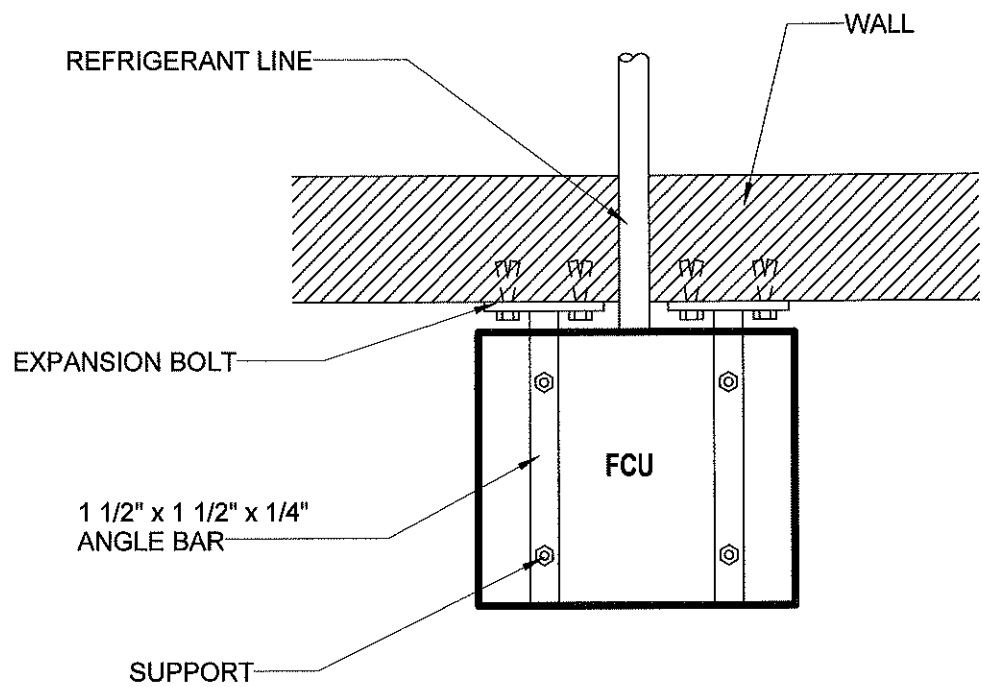


REFRIGERANT LINE
DETAILS

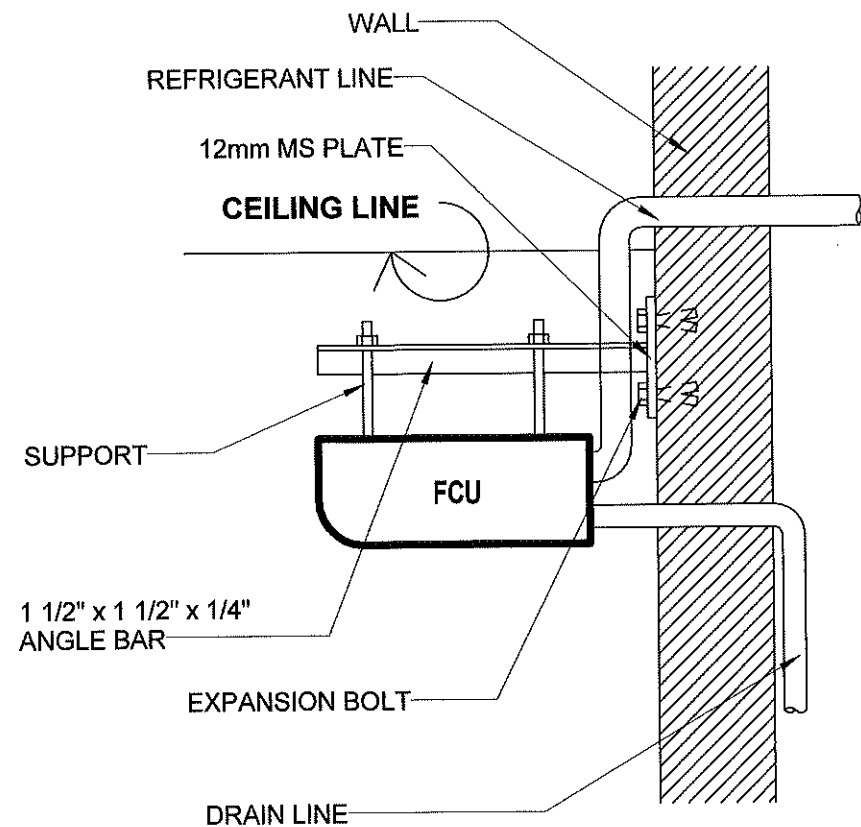
SIDE VIEW

ACU DETAIL
N T S

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	PREPARED BY:  DENNIS CLYDE G. ACANTILADO MECHANICAL ENGINEER	LOCATION: MMSU-S&T PARK, CITY OF BATAG, ILOCOS NORTE	CHECKED/REVIEWED BY:  AIDA V. CABANG ARCHITECT IV, CHIEF-PHYSICAL PLANNING SECTION	RECOMMENDING APPROVAL:  ROMEO R. DULULAO DIRECTOR, PEBO	APPROVED BY:  SHIRLEY C. AGRUPIS UNIVERSITY PRESIDENT



PLAN VIEW



SECTION VIEW

CEILING MOUNTED DETAIL

N T S

	DRAWN BY: BJAY A. DAYANG DRAFTSMAN I	PROJECT TITLE: SUPPLY OF MATERIALS & INSTALLATION OF AIR-CONDITIONING UNIT AT S&T PARK	CONFORME: MARLOWE J. AQUINO DIRECTOR, S & T PARK	SHEET CONTENT:	SHEET NO.:
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