University of Science and Technology of Southern Philippines

INVITATION /REQUEST FOR SUBMISSION OF PRICE QUOTATION
Posted in PhilGEPS Website/Conspicuous Place at the Procuring Entity

The University of Science & Technology of Southern Philippines, through the Bids and Awards Committee (BAC) hereby invites interested parties to submit quotation for the procurement of the following item:

Reference No.	Qty.	Unit	Specification/Description	Budget for the Contract	Mode of Procurement
CDO-SVP-2026-0410	Please see the details on the attached RFQ.	Please see the details on the attached RFQ.	**Proposed Construction of the USTP Centennial Museum Phase 2 at USTP-CDO**	1,000,000.00	Small Value Procurement - Section 34, Rule IV, IRR of R.A. No. 12009

Deadline for the submission of quotation is on Tuesday, November 24, 2026 at 12:00 noon at the Procurement Unit, 2nd Floor, USTP Gymnasium building. You may submit your quotation through email: bacsec@ustp.edu.ph or call our telephone number 856-1738 Local 1164 or through personal delivery in a sealed envelope.

The University of Science & Technology of Southern Philippines reserves the right to accept or reject any or all bids / price quotations, to annul the process, and to reject all bids at any time prior to contract award, without thereby incurring any liability to the affected bidder or bidders.

(SGD.)
ATTY. JONATHAN S. OCHE, DPA
BAC I CHAIRPERSON

University of Science and Technology of Southern Philippines

Date: **November 13, 2026**
Quotation No: **CDO-SVP-2026-0410**
Project Name: **Proposed Construction of the USTP Centennial Museum Phase 2 at USTP-CDO**

The Manager

_____
Business/Trade/Store Name

_____
Address

Please quote your lowest price on the item/s listed below, subject to the general conditions below, stating the shortest time of delivery and submit your quotation duly signed by your representative not later than **Tuesday, November 24, 2026 at 12:00 noon.**

(SGD.)
ATTY. JONATHAN S. OCHE, DPA
BAC I, CHAIRPERSON

NOTE:

1. DELIVERY PERIOD OF **45** CALENDAR DAY UPON RECEIPT OF Purchase Order.
2. **DELIVERY LOCATION: SUPPLY OFFICE, USTP-CDO CAMPUS, C.M RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY, MISAMIS ORIENTAL**
3. PAYMENT TERMS: One Time Payment
4. PRICE VALIDITY SHALL BE FOR A PERIOD OF 30 CALENDAR DAYS
5. BIDDERS MUST INDICATE THE BRAND AND/OR MODEL NUMBER FOR EQUIPMENT AND ITS ACCESSORIES OR PERIPHERALS AND FOR ALL OTHER ITEMS IF APPLICABLE. BIDDERS SHALL SUBMIT ORIGINAL BROCHURES SHOWING CERTIFICATIONS OF THE PRODUCT BEING OFFERED IF APPLICABLE.
6. THE USTP RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS FOR ANY JUSTIFIABLE GROUND WHERE THE AWARD OF THE CONTRACT WILL NOT REDOUND TO THE BENEFIT OF THE GOP.
7. REQUIREMENTS: PHILGEPS REGISTRATION.

ITEM #	QTY	UNIT	DESCRIPTION AND SPECIFICATIONS	QUOTED UNIT PRICE	TOTAL PRICE
LOT				**1,000,000.00**	
A. GENERAL REQUIREMENTS					
A.1.1(16)	**1.00**	l.s.	Operation & Maintenance of Field Office for the Engineer		
B.7	**1.00**	l.s.	Occupational Safety and Health		
B.5	**2.00**	each	Project Billboard		
B. ARCHITECTURAL WORKS					
1003(1)a2	**49.49**	sq.m	Ceiling (4.5mm thick Ficem Board on Light Metal Frame)		
1003(2)	**52.48**	sq.m	Drywall Partition (9mm thick Ficemboard on light metal studs/framing)		
1003(2)c1	**135.48**	sq.m	Marine Plywood for Backing and Display Walls (1/4" thk. & 18mm thk.)		

1032(1)b	**156.45**	sq.m	Painting Works (Ficem Board & Marine Plywood)		
1012(6)	**7.10**	sq.m	Laminated Safety Glass with complete accessories (8mm thk, Display Cases)		
1100(6)	**1.00**	l.s	Acrylic LED Lighted Signage LETTER CUT OUTS + LOGO		
1020(1)a	**49.49**	sq.m.	Vinyl Floor Tiles (Wood Grain)		
C. ELECTRICAL WORKS					
1100(6)	**65.00**	length	20mmØ - 75mmØ Polyvinyl Chloride (PVC) Pipes		
1101(1)b2	**900.00**	m.	3.5mm2 - 5.5mm2 Electric Wire (TW/THHN/THWN2)		
1101(1)b4	**450.00**	m.	8.0mm2 - 22mm2 Electric Wire (TW/THHN/THWN2)		
1100(9)	**1.00**	l.s	PVC/RSC/IMC/EMT Conduit Fittings and Accessories		
1100(10)	**1.00**	l.s	Box/Pull Box/Utility Box/Square Box/80mm dia entrance cap/16mm dia x 2.4 ground rod		
1102(11)	**1.00**	l.s	Electrical Cabinet		
1102(1)	**1.00**	l.s	Panel Board with Main & Branch Breakers with Accessories		
1101(15)	**10.00**	pcs.	Simplex/Duplex Universal convenience outlet, duple universal floor recessed convenience outlet, duplex universal weatherproof convenience outlet/LED Swivel Automatic Emergency Lights		
1101(3)	**2.00**	pcs	Lighting Switches		
1103 (1)	**47.00**	pcs	Lighting Fixtures and Lamps with Exit and Emergency Lights		
D. ECE WORKS					
1208(2)	**2.00**	pcs	Smoke Detector (Ceiling Mounted)		
1105(3)	**4.00**	length	15mmØ Polyvinyl Chloride (PVC) Pipes and fittings		
1101(33)	**11.00**	l.m	TF Wire (for Smoke Detectors and Speakers)		

E. MECHANICAL WORKS and FIRE PROTECTION WORKS					
1202(6)	**2.00**	set/s	Fire Extinguisher (Including Bracket)		
1200(13)a	**1.00**	l.s	Airconditioning with complete accessories (Inc. provisions and installation)		
(See Attached Plan)					
TOTAL PRICE					

Instructions:
1. Please see attached Scope of Works to be filled out and submitted
2. Please attach the Following Documents:
-DUPA Derivation/ Computation
-Construction Schedule
-S- Curve and Bar Chart
-Man-power Schedule
-Construction Methods
-Equipment Utilization Schedule
-Construction Safty and Health Program
-PERT-CPM

After having carefully read and accepted for General Conditions, I/We quote on the item at prices noted above.

Printed Name/Signature

Cellphone/Contact No./address/E-mail

Date

Murallon- USTP Centennial Museum Phase 2
RFQ No. : CDO-SVP-2026-0410
BAC RES. No: MOP-2026-0018
PR No.: 2026-43-18

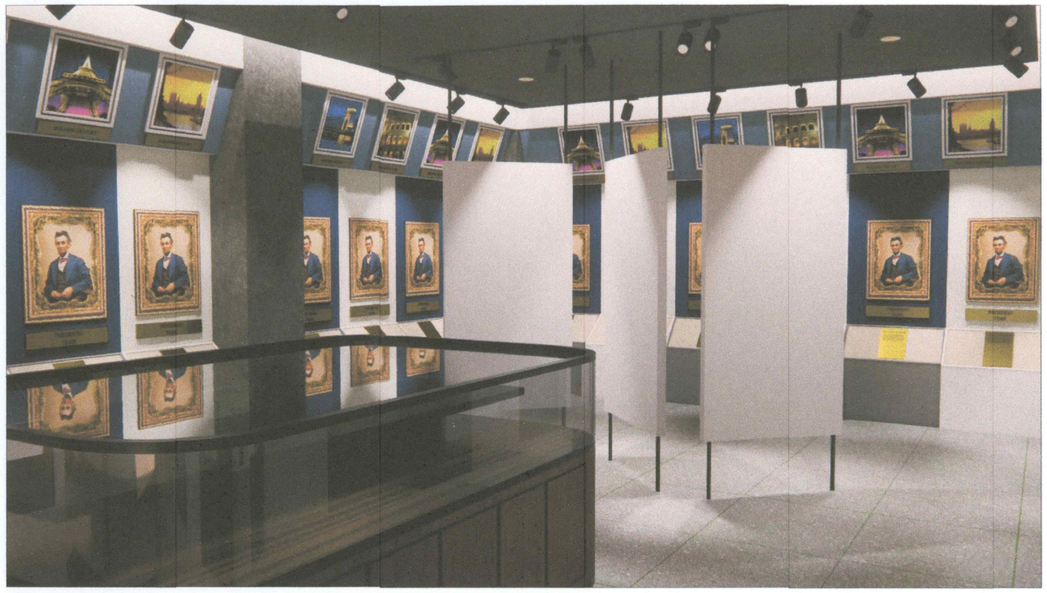
SCOPE OF WORKS

ITEM NO.	PROGRAM OF WORKS	UNIT	QTY	ESTIMATE DIRECT COST	ESTIMATE DIRECT COST		TOTAL MARK-UP	VALUE = 5x8	VAT = 5% x (5+9)	TOTAL INDIRECT COST = 9+10	TOTAL COST = 5+11	UNIT COST = 12/3
					OCM	PROFIT	%					
1	2	3	4	5	6	7	8	9	10	11	12	13
A. GENERAL REQUIREMENTS												
A.1.1(16)	Operation & Maintenance of Field Office for the Engineer	l.s.	1.00	P	P	P	P	P	P	P	P	P
B.7	Occupational Safety and Health	l.s.	1.00	P	P	P	P	P	P	P	P	P
B.5	Project Billboard	each	2.00	P	P	P	P	P	P	P	P	P
B. ARCHITECTURAL WORKS												
1003(1)a2	Ceiling (4.5mm thick Ficem Board on Light Metal Frame)	sq.m	49.49	P	P	P	P	P	P	P	P	P
1003(2)	Drywall Partition (9mm thick Ficemboard on light metal studs/framing)	sq.m	52.48	P	P	P	P	P	P	P	P	P
1003(2)c1	Marine Plywood for Backing and Display Walls (1/4" thk. & 18mm thk.)	sq.m	135.48	P	P	P	P	P	P	P	P	P
1032(1)b	Painting Works (Ficem Board & Marine Plywood)	sq.m	156.45	P	P	P	P	P	P	P	P	P
1012(6)	Laminated Safety Glass with complete accessories (8mm thk, Display Cases)	sq.m	7.10	P	P	P	P	P	P	P	P	P

1/3

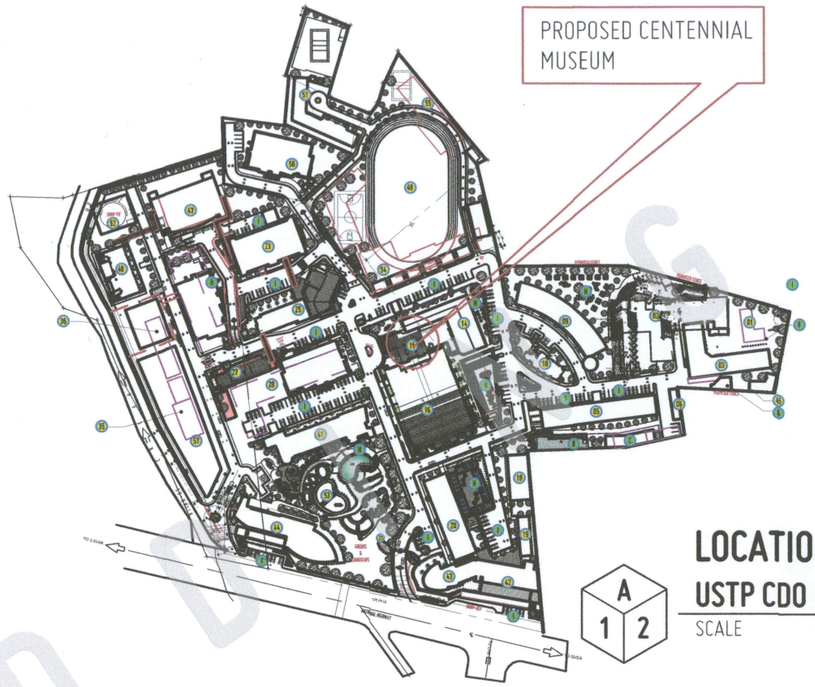
1100(6)	Acrylic LED Lighted Signage LETTER CUT OUTS + LOGO	l.s	1.00	P	P	P	P	P	P	P	P	P
1020(1)a	Vinyl Floor Tiles (Wood Grain)	sq.m	49.49	P	P	P	P	P	P	P	P	P
C. ELECTRICAL WORKS												
1100(6)	20mmØ - 75mmØ Polyvinyl Chloride (PVC) Pipes	length	65.00	P	P	P	P	P	P	P	P	P
1101(1)b2	3.5mm2 - 5.5mm2 Electric Wire (TW/THHN/THWN2)	m.	900.00	P	P	P	P	P	P	P	P	P
1101(1)b4	8.0mm2 - 22mm2 Electric Wire (TW/THHN/THWN2)	m.	450.00	P	P	P	P	P	P	P	P	P
1100(9)	PVC/RSC/IMC/EMT Conduit Fittings and Accessories	l.s	1.00	P	P	P	P	P	P	P	P	P
1100(10)	Box/Pull Box/Utility Box/Square Box/80mm dia entrance cap/16mm dia x 2.4 ground rod	l.s	1.00	P	P	P	P	P	P	P	P	P
1102(11)	Electrical Cabinet	l.s	1.00	P	P	P	P	P	P	P	P	P
1102(1)	Panel Board with Main & Branch Breakers with Accessories	l.s	1.00	P	P	P	P	P	P	P	P	P
1101(15)	Simplex/Duplex Universal convenience outlet, duple universal floor recessed convenience outlet, duplex universal weatherproof convenience outlet/LED Swivel Automatic Emergency Lights	pcs	10.00	P	P	P	P	P	P	P	P	P
1101(3)	Lighting Switches	pcs	2.00	P	P	P	P	P	P	P	P	P
1103 (1)	Lighting Fixtures and Lamps with Exit and Emergency Lights	pcs	47.00	P	P	P	P	P	P	P	P	P

D. ECE WORKS												
1208(2)	Smoke Detector (Ceiling Mounted)	pcs	2.00	P	P	P	P	P	P	P	P	P
1105(3)	15mmØ Polyvinyl Chloride (PVC) Pipes and fittings	length	4.00	P	P	P	P	P	P	P	P	P
1101(33)	TF Wire (for Smoke Detectors and Speakers)	l.m	11.00	P	P	P	P	P	P	P	P	P
E. MECHANICAL WORKS and FIRE PROTECTION WORKS												
1202(6)	Fire Extinguisher (Including Bracket)	set/s	2.00	P	P	P	P	P	P	P	P	P
1200(13)a	Airconditioning with complete accessories (Inc. provisions and installation)	l.s	1.00	P	P	P	P	P	P	P	P	P
OVER TOTAL				P	P	P	P	P	P	P	P	P





VIEW INSIDE THE MUSEUM



LOCATION MAP

USTP CDO MASTER PLAN

SCALE 1:3000 MTS



VIEW FROM THE OUTSIDE MUSEUM

PERSPECTIVES

SCALE NTS

REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT
CLARO M. RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY 9000
TELEPHONE # (08822) 72-60-65 / (088) 856-1738 / 856-1739 | TELE FAX (088) 856-4696
WEBSITE: www.ustp.edu.ph

AR. FERNAND G. MACAS, UAP
PREPARED BY

PRC NO.: 0034616 | PTR NO.: 4905589 B
VALIDITY: 6 JUNE 2027 | DATE: 22 JANUARY, 2026
TIN NO. : 601-357-467 | PLACE: CAG. DE ORO CITY, MIS.OR

PROJECT: COMPLETION OF THE PROPOSED USTP CENTENNIAL MUSEUM, USTP CDO PHASE 2
LOCATION: USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
ENGR. GRACE C. BABA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. BIONEL O. ALBINA
CHANCELLOR, USTP CAGAYAN DE ORO

RECOMMENDING APPROVAL:
ATTY. JONATHAN S. OCHE
OFFICER-IN-CHARGE, OFFICE OF THE VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

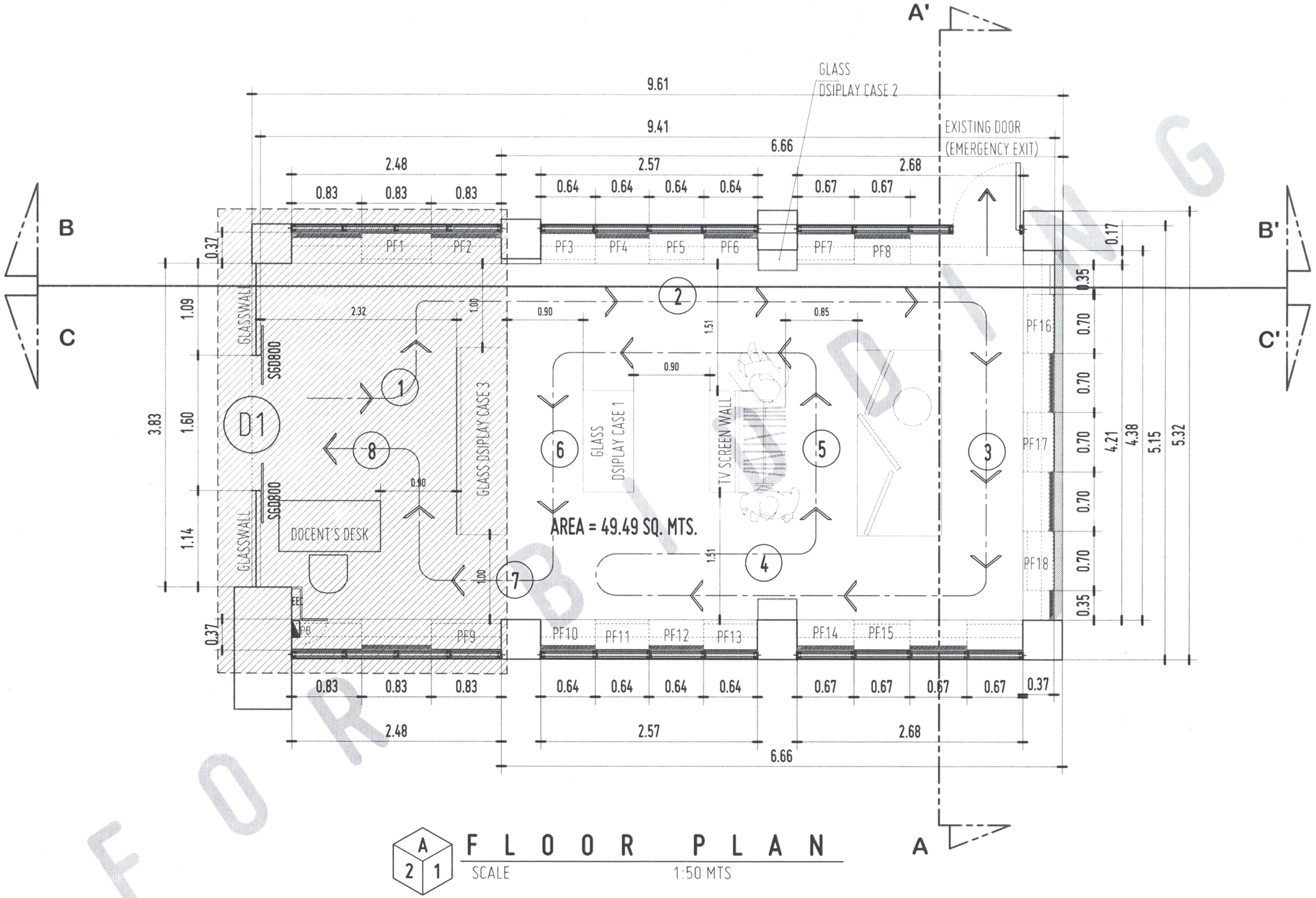
SHEET CONTENTS:
PERSPECTIVES
LOCATION MAP

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DATE DRAWN:
FNT:

A1

FOR REVIEW

HATCHED AREA CONSTRUCTED IN PHASE 1



A21 FLOOR PLAN

SCALE 1:50 MTS

FOR BIDDING

USTP

REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
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PRC NO.: 0034616	PTR NO.: 4905589 B
VALIDITY: 6 JUNE 2027	DATE: 22 JANUARY, 2026
TIN NO.: 601-357-467	PLACE: CAG. DE ORO CITY, MIS.OR

PROJECT	COMPLETION OF THE PROPOSED USTP CENTENNIAL MUSEUM USTP CDO PHASE 2
LOCATION	USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:
ENGR. GRACE C. BABA	ATTY. DIONEL G. ALBINA	ATTY. JONATHAN S. OCHE	DR. AMBROSIO B. CULTURA II
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	CHANCELLOR, USTP CAGAYAN DE ORO	OFFICER-IN-CHARGE, OFFICE OF THE VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM

SHEET CONTENTS: FLOOR PLAN

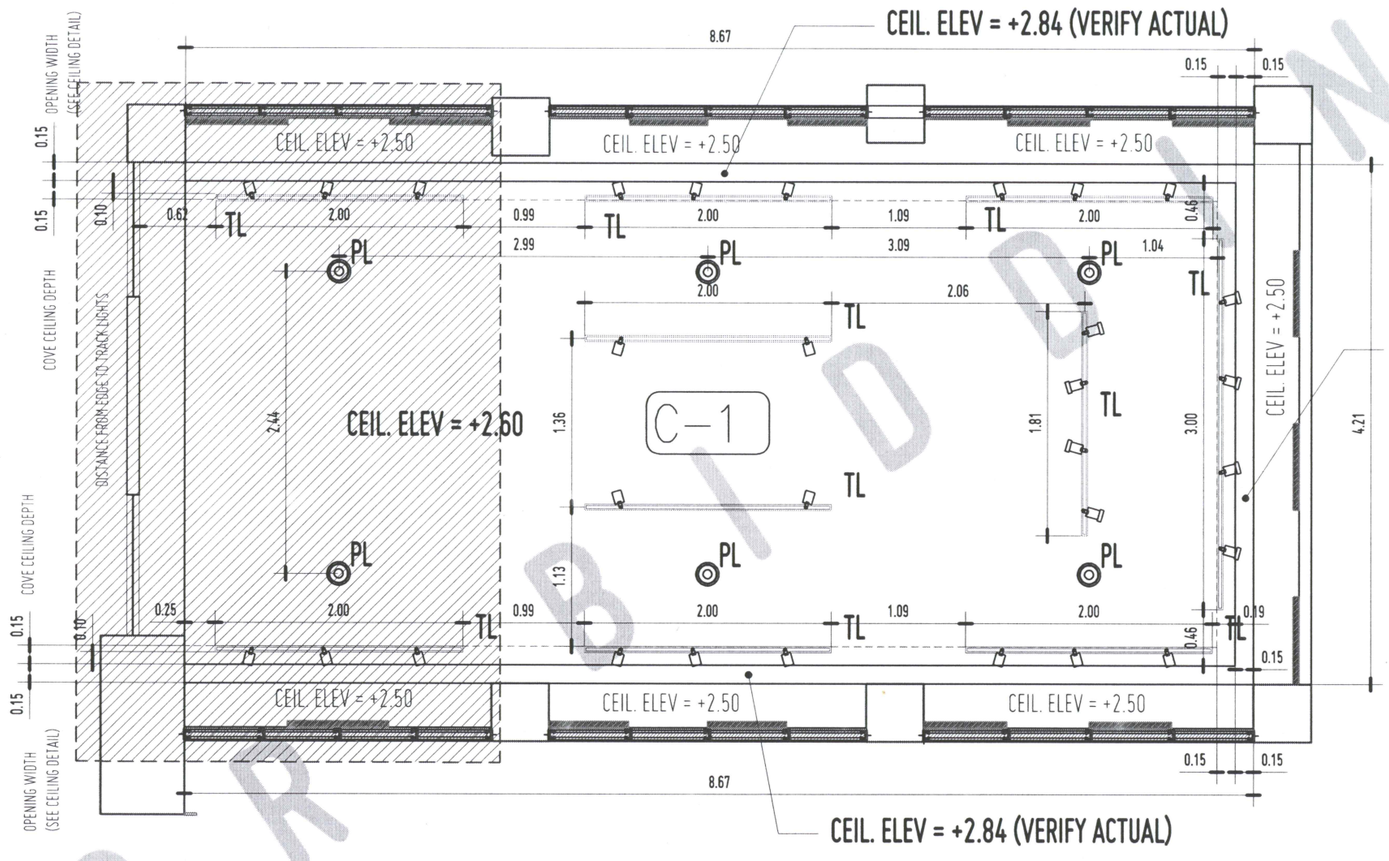
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DATE DRAWN:
FNT:

A2

HATCHED AREA CONSTRUCTED IN PHASE 1

CEILING FINISHES	
MARK	DESCRIPTION
C-1	4.5mm THK FICEM BOARD ON LIGHT METAL FRAME PAINTED BLACK

LEGEND	
MARK	DESCRIPTION
	5W LOW INTENSITY LED TRACK LIGHT
	12W LED PINLIGHT



A 3 1

REFLECTED CEILING PLAN

SCALE 1:50 MTS

FOR BIDDING

USTP

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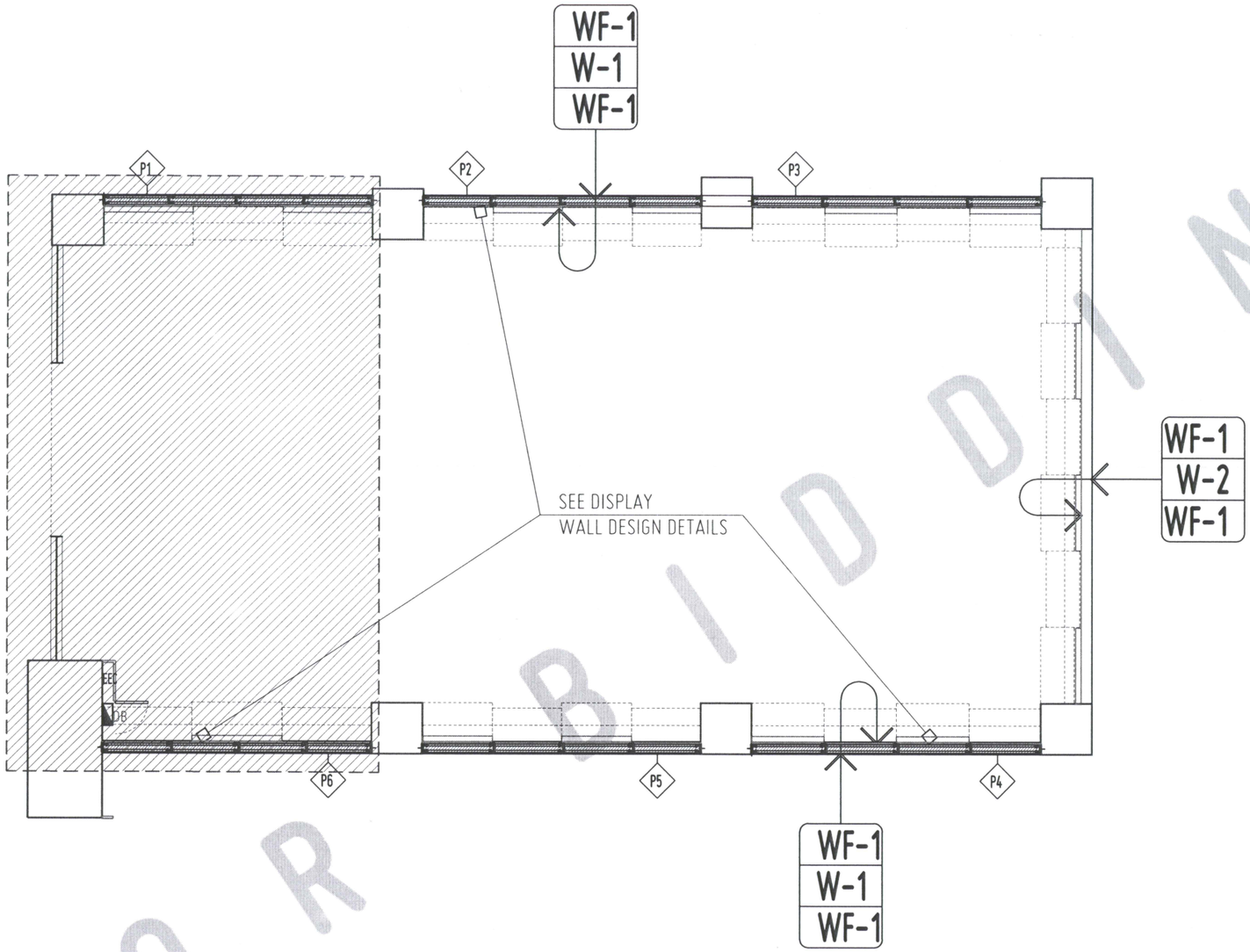
PROJECT	COMPLETION OF THE PROPOSED USTP CENTENNIAL MUSEUM USTP CDO PHASE 2
LOCATION	USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:
ENGR. GRACE C. BABA	ATTY. DIONEL G. ALBINA	ATTY. JONATHAN S. OCHE	DR. AMBROSIO B. CULTURA II
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	CHANCELLOR, USTP CAGAYAN DE ORO	OFFICER-IN-CHARGE, OFFICE OF THE VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM

SHEET CONTENTS:	DRAWN BY:
REFLECTED CEILING PLAN	DATE DRAWN:
	FNT:

A3

HATCHED AREA CONSTRUCTED IN PHASE 1



FLOOR FINISHES	
MARK	DESCRIPTION
FF-1	EXISTING FLOORING
WALL FINISHES	
MARK	DESCRIPTION
WF-1	PAINTED W/ LOW-VOC, ANTIBACTERIAL PAINT IN HYGIENIC WHITE COLOR (INTERIOR)
PARTITION	
MARK	DESCRIPTION
W-1	DRY WALL 6mm THK FICEMBOARD ON LIGHT METAL STUDS/FRAMING
W-2	EXISTING CONCRETE WALL
DRAWING SYMBOLS	
SCHEDULE OF FINISHES	
	WALL FINISH OF SAME SIDE OF SYMBOL WALL OR PARTITON WALL FINISH OF OTHER SIDE

A4 / 1

WALL FINISHES PLAN

SCALE 1:50 MTS

FOR BIDDING

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UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
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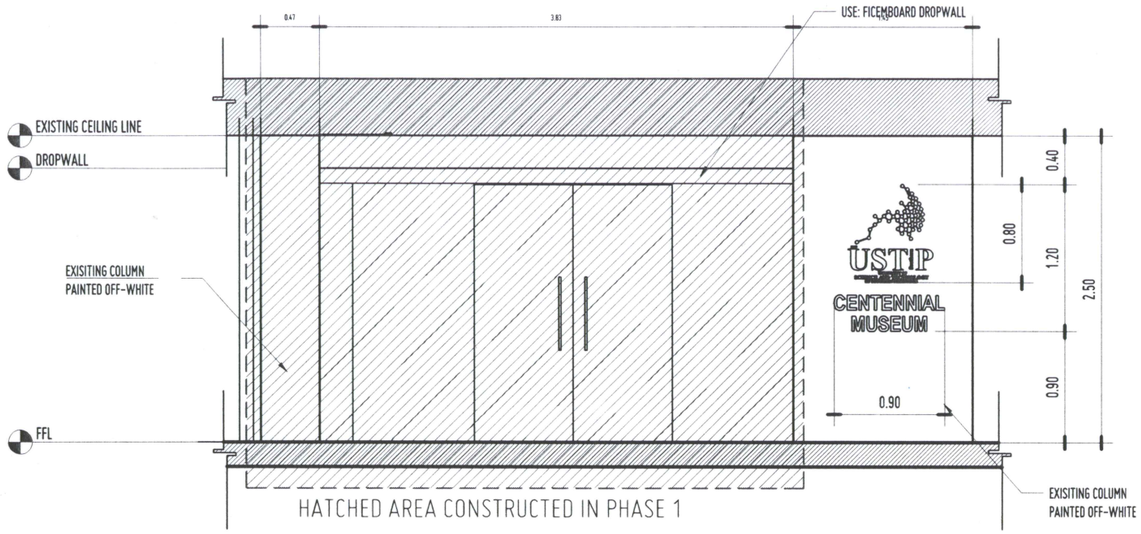
PROJECT	COMPLETION OF THE PROPOSED USTP CENTENNIAL MUSEUM USTP CDO PHASE 2
LOCATION	USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:
ENGR. GRACE C. BABA DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	ATTY. DIONEL O. ALBINA CHANCELLOR, USTP CAGAYAN DE ORO	ATTY. JONATHAN S. OCHE OFFICER-IN-CHARGE, OFFICE OF THE VP FOR ADMINISTRATION & LEGAL AFFAIRS	DR. AMBROSIO B. CULTURA II PRESIDENT, USTP SYSTEM

SHEET CONTENTS:	DRAWN BY:
FLOOR & WALL FINISHES	DATE DRAWN:
	FNT:

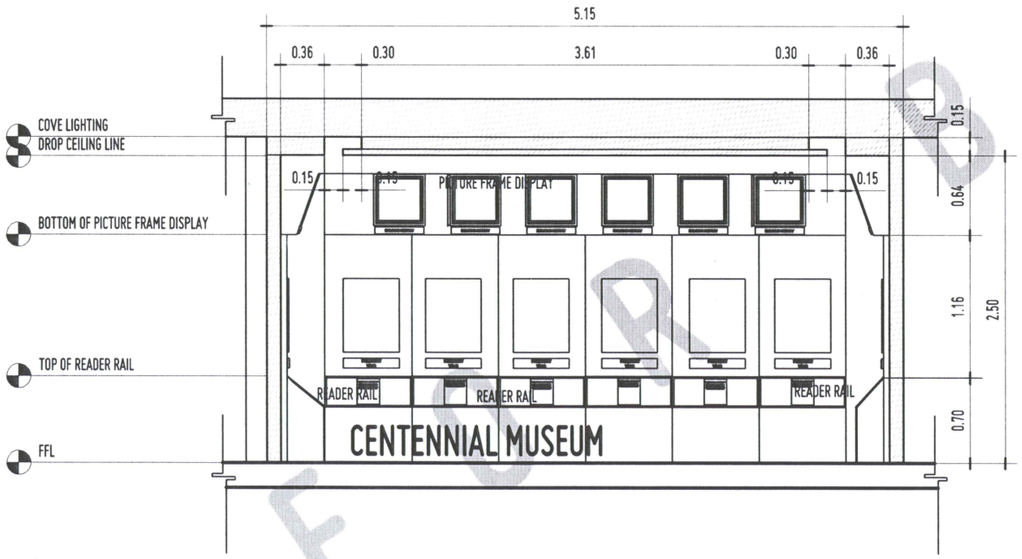
A4

HATCHED AREA CONSTRUCTED IN PHASE 1



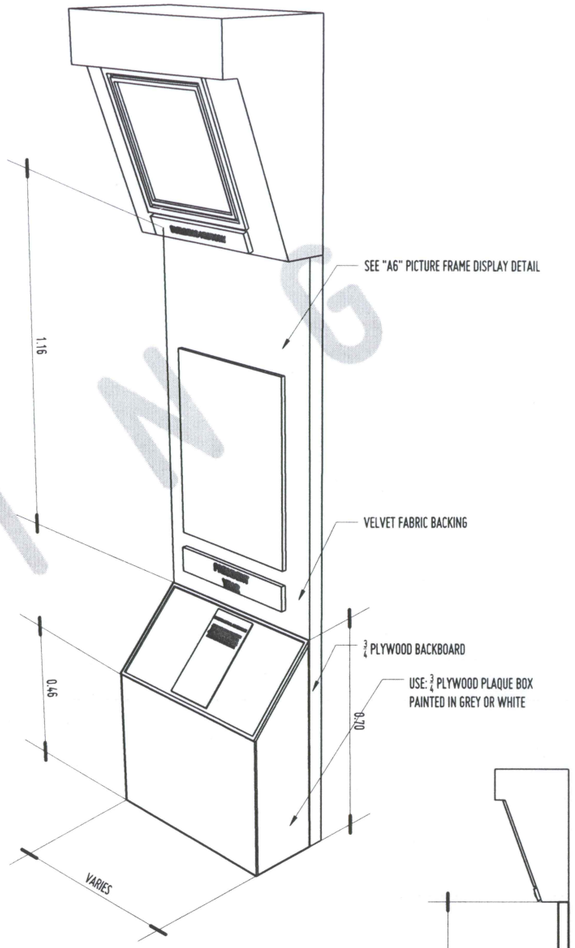
A 5 1 **FRONT ELEVATION**

SCALE 1:50 MTS

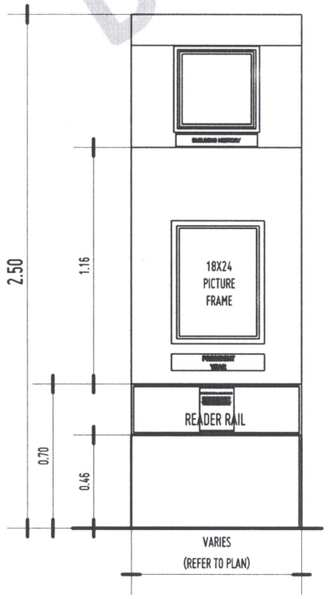


A 5 2 **SECTION THRU "A"**

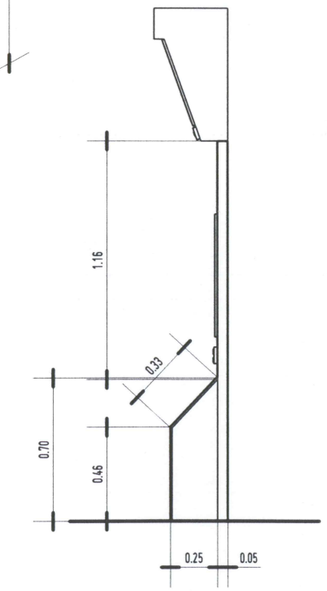
SCALE 1:50 MTS



ISOMETRIC VIEW



ELEVATION



SECTION

A 5 3 **TYPICAL READER RAIL DETAIL**

SCALE 1:30 MTS

FOR BIDDING

USTP

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UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
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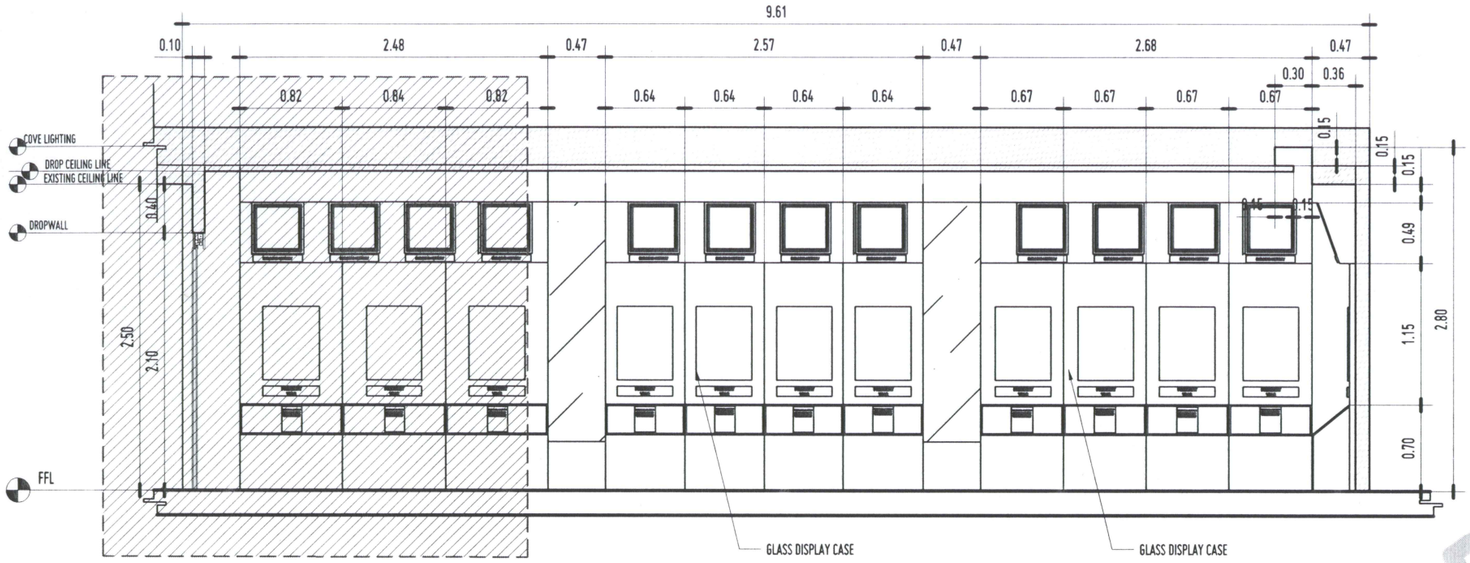
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OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:
ENGR. GRACE C. BABA	ATTY. DIONEL O. ALBINA	ATTY. JONATHAN S. OCHE	DR. AMBROSIO B. CULTURA II
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	CHANCELLOR, USTP CAGAYAN DE ORO	OFFICER-IN-CHARGE, OFFICE OF THE VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
FRONT ELEVATION
SECTION THRU "A"
TYPICAL READERS'S RAIL DETAIL

DRAWN BY:
DATE DRAWN:
FNT:

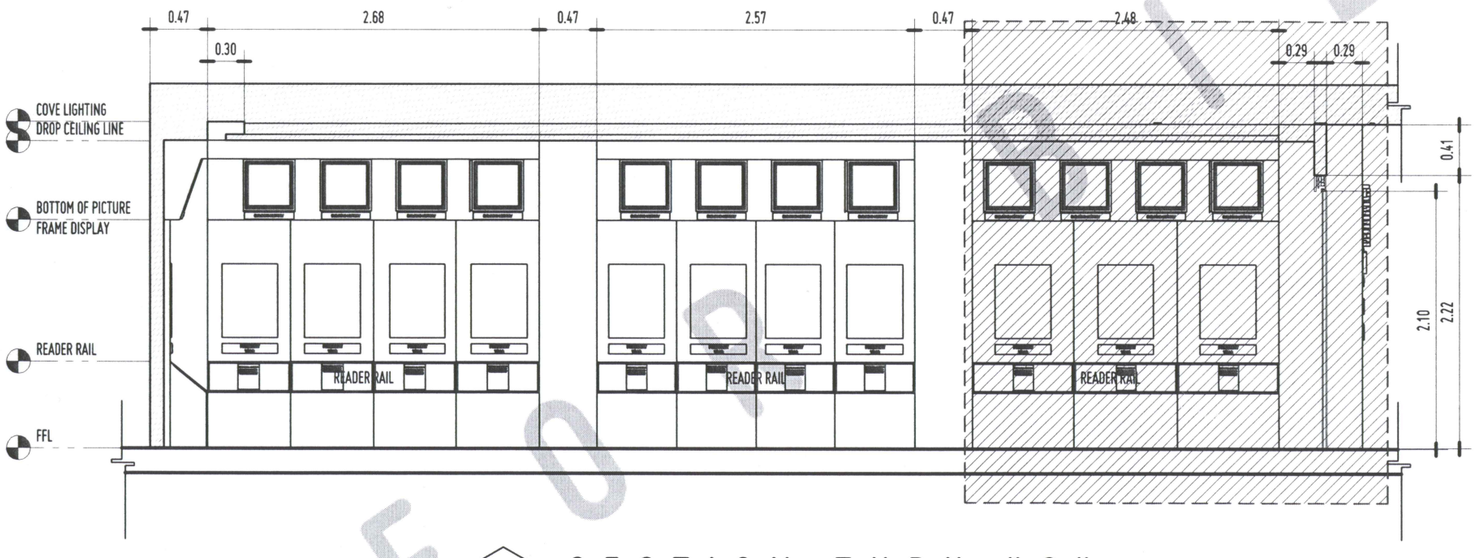
A5



A 6 1

SECTION THRU "B"

SCALE 1:50 MTS

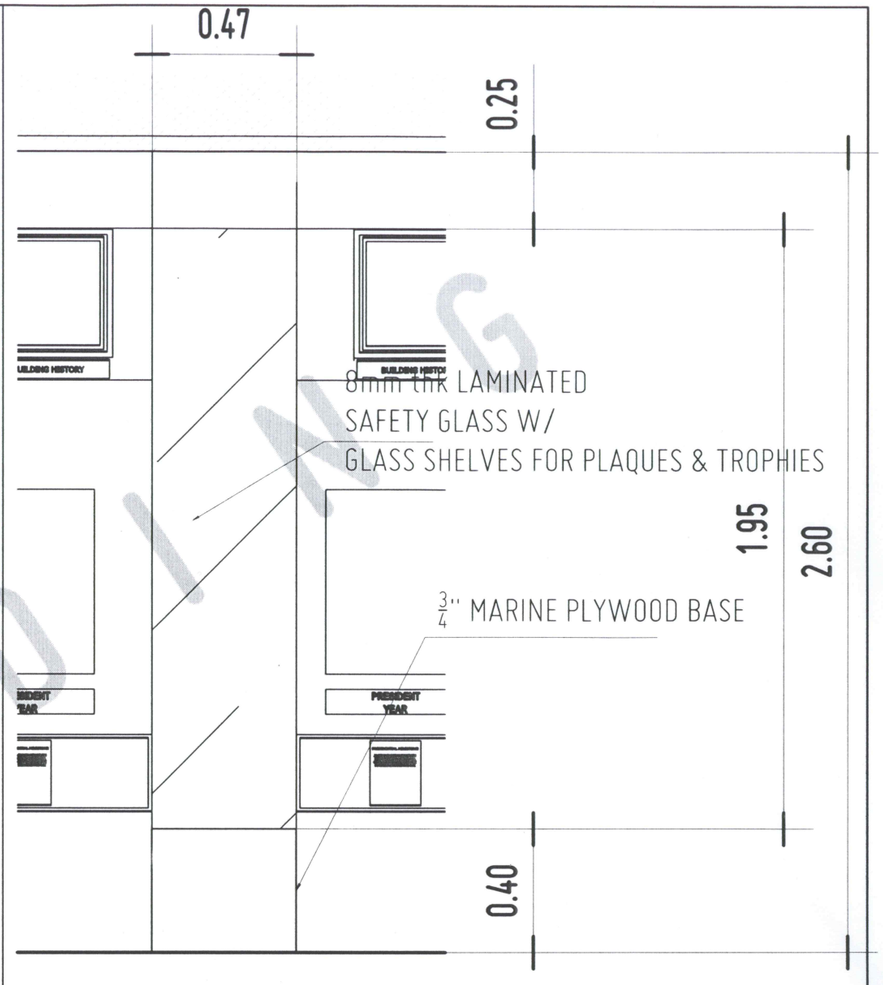


A 6 2

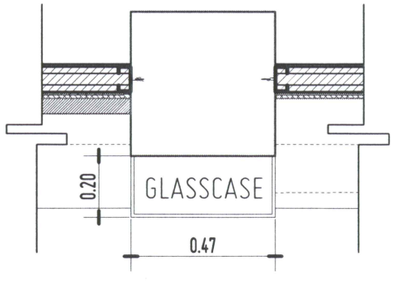
SECTION THRU "C"

SCALE 1:50 MTS

HATCHED AREA CONSTRUCTED IN PHASE 1



ELEVATION



PLAN

A 6 3

GLASS DISPLAY CASE 2 DETAIL

SCALE 1:30 MTS

FOR BIDDING

REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT
CLARO M. RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY 9000
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WEBSITE: www.ustp.edu.ph

AR. FERNAND G. MACAS, UAP
PREPARED BY

PRC NO.: 0034616 | PTR NO.: 4905589 B
VALIDITY: 6 JUNE 2027 | DATE: 22 JANUARY, 2026
TIN NO.: 601-357-467 | PLACE: CAG. DE ORO CITY, MIS.OR

PROJECT: COMPLETION OF THE PROPOSED USTP CENTENNIAL MUSEUM
USTP CDO PHASE 2

LOCATION: USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY

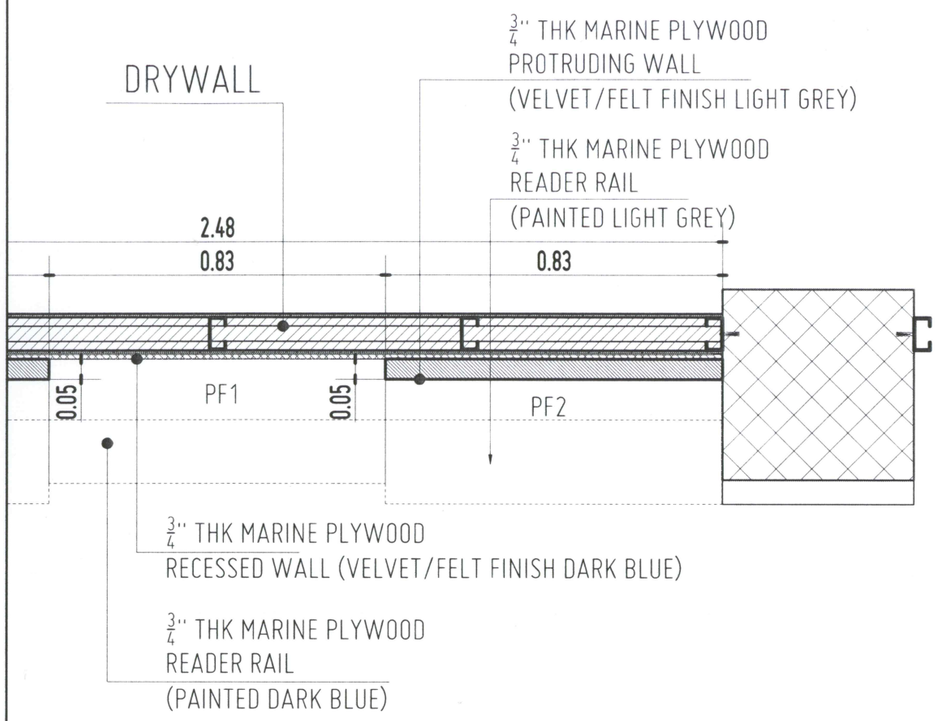
OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

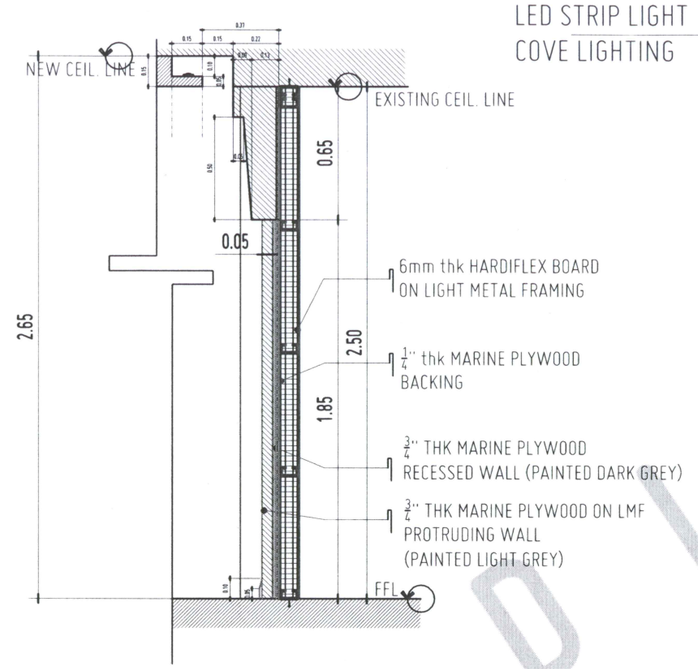
RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:
ENGR. GRACE C. BABA	ATTY. DIONEL O. ALBINA	ATTY. JONATHAN S. OCHE	DR. AMBROSIO B. CULTURA II
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	CHANCELLOR, USTP CAGAYAN DE ORO	OFFICER-IN-CHARGE, OFFICE OF THE VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
SECTION THRU "B"
SECTION THRU "C"
GLASS DISPLAY CASE 2 DETAIL

DRAWN BY:
DATE DRAWN:
FNT:

A6



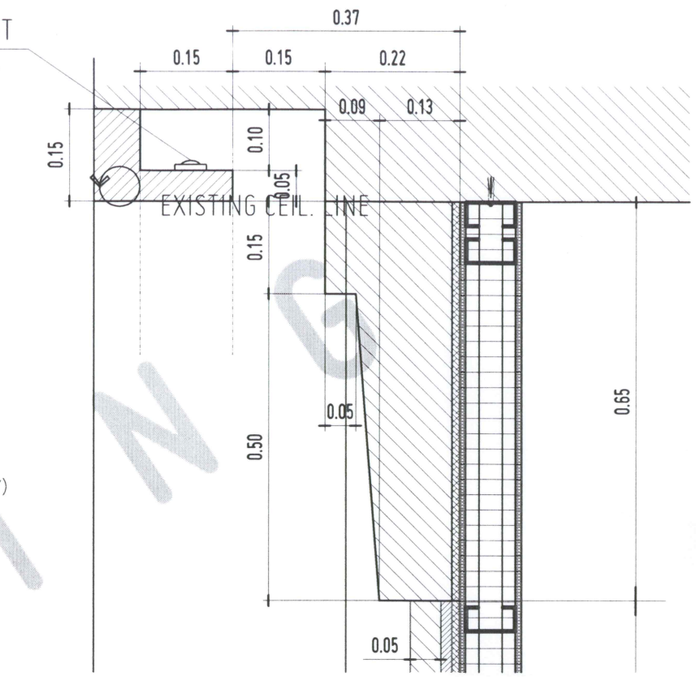


A 7 1

TYPICAL DRYWALL

SECTION DETAIL

SCALE 1:30 MTS

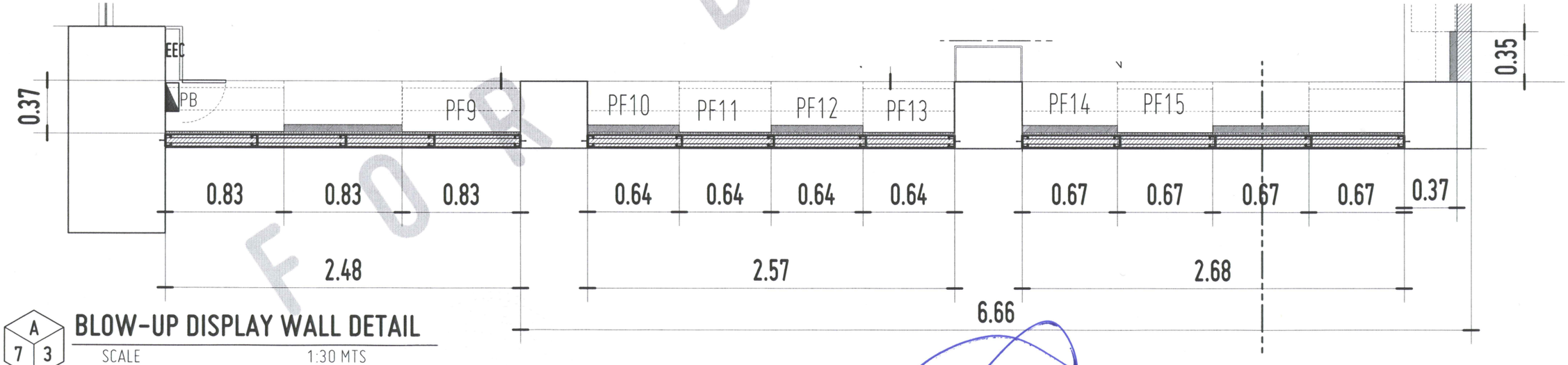


A 7 2

PICTURE FRAMES DISPLAY WALL

UPPER WALL

SCALE 1:10 MTS



A 7 3

BLOW-UP DISPLAY WALL DETAIL

SCALE 1:30 MTS

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OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

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SHEET CONTENTS:
- TYPICAL DRYWALL SECTION DETAIL
- PICTURE FRAMES DISPLAY WALL UPPER WALL
- DISPLAY WALL DETAIL

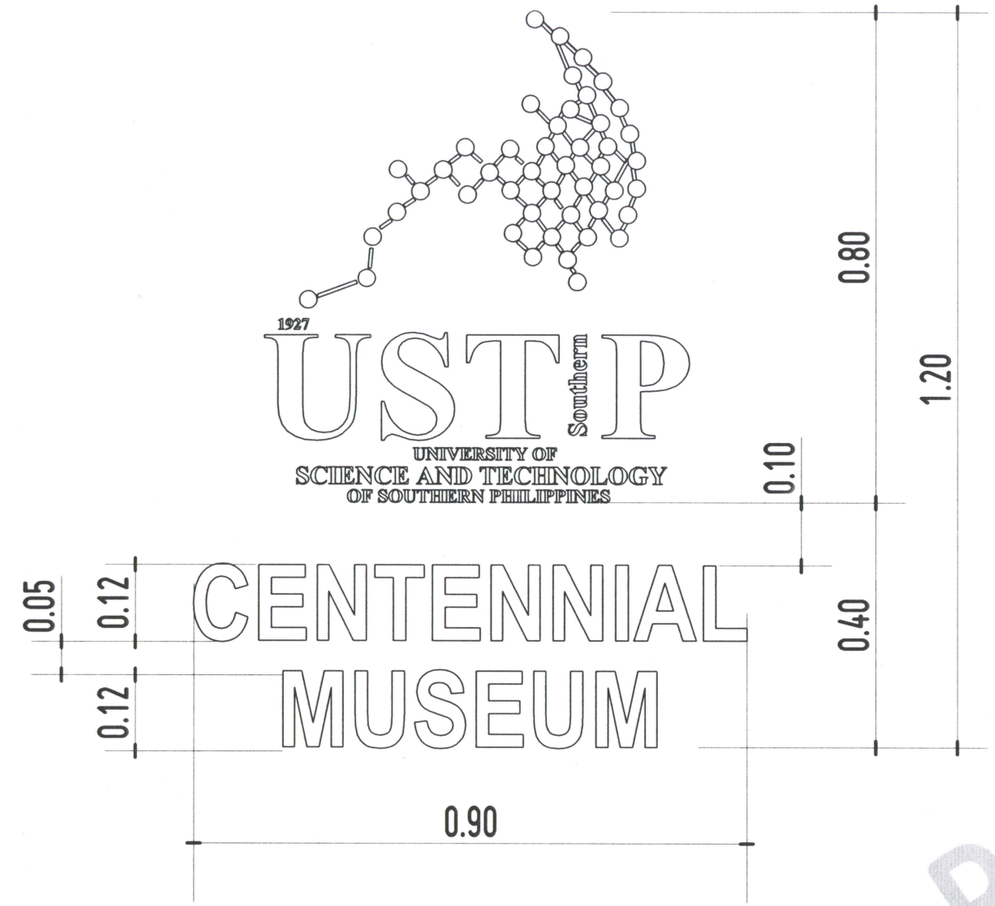
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A7

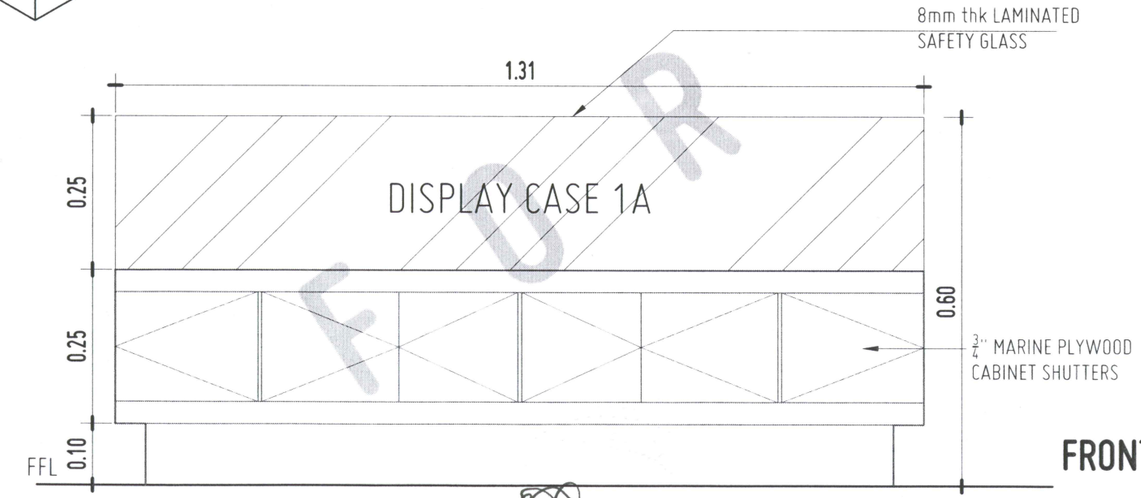
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1927 USTP Southern
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

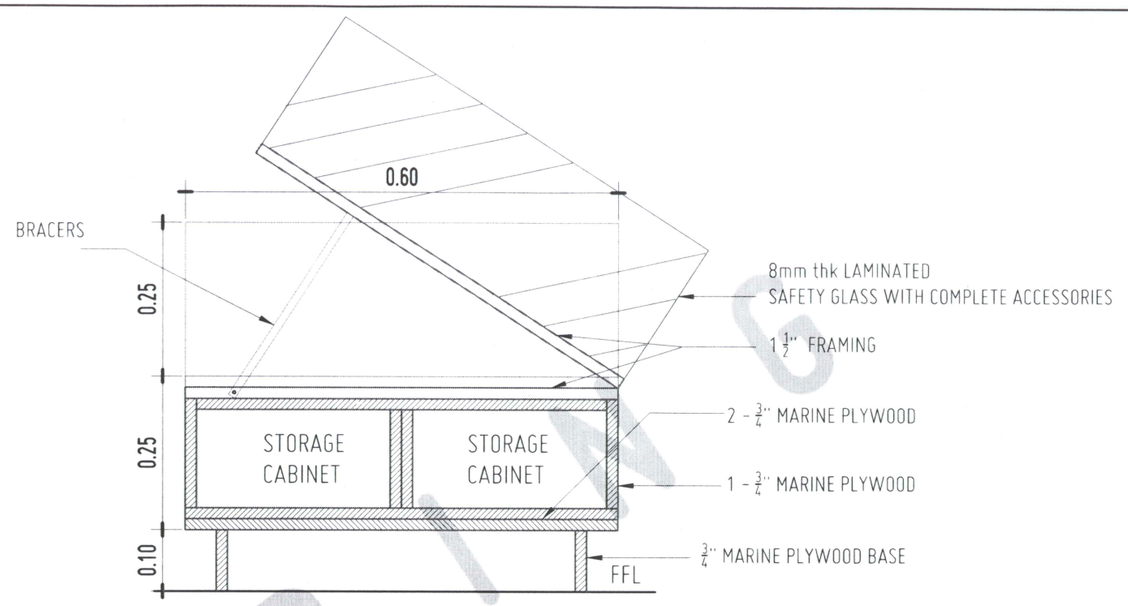
CENTENNIAL MUSEUM



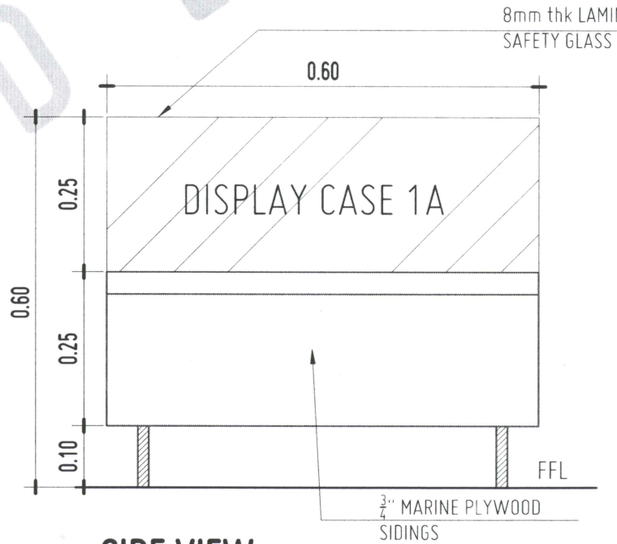
SIGNAGE DETAILS
SCALE 1:10 MTS



FRONT VIEW



CROSS SECTION



SIDE VIEW

DISPLAY CASE 1 DETAILS
SCALE 1:10 MTS

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OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

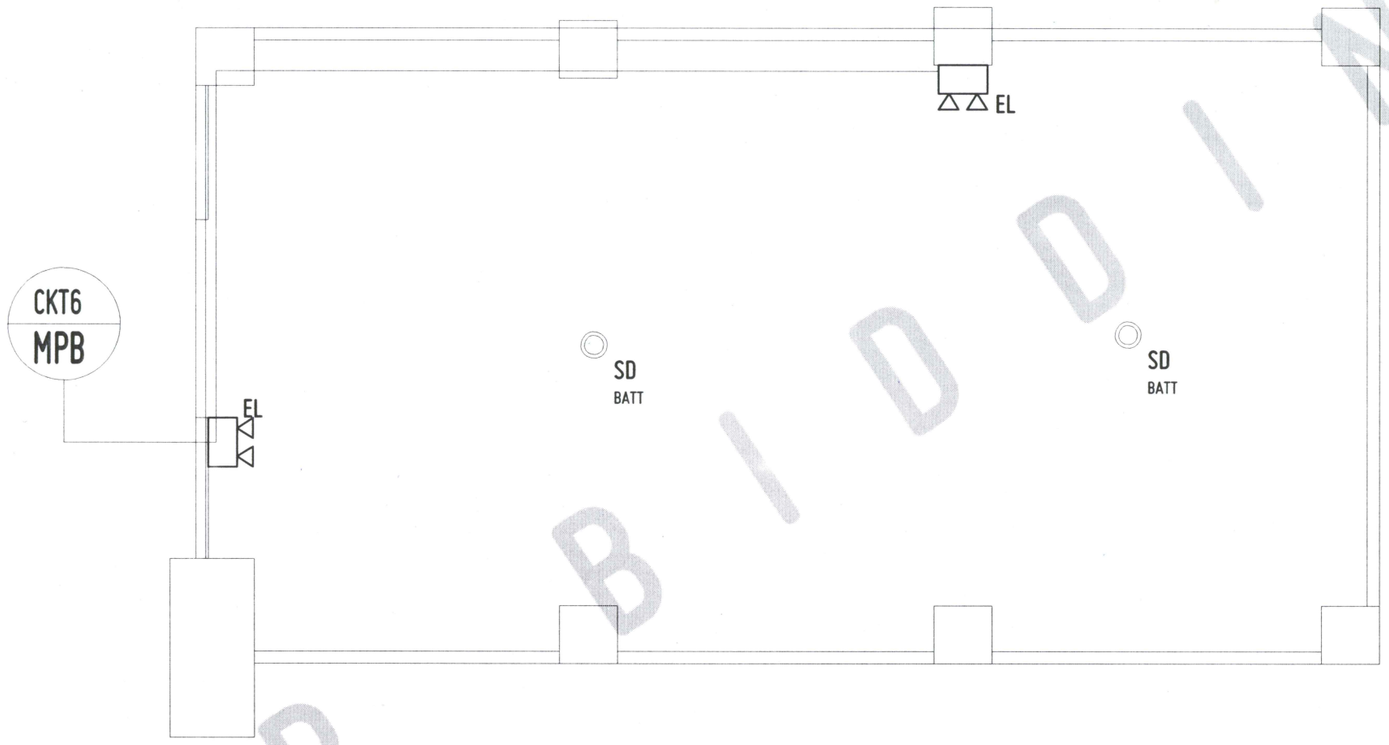
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SHEET CONTENTS: SIGNAGE DETAILS, DISPLAY CASE 1 DETAILS

DRAWN BY:
DATE DRAWN:
FNT:

A8

LEGEND	
MARK	DESCRIPTION
EL	EMERGENCY LIGHT
SD BATT	BATTERY SMOKE DETECTOR
	POWER LINE



EMERGENCY LIGHT & SMOKE DETECTOR LAYOUT PLAN

ECE 1 1

SCALE 1:80
MTS

FOR BIDDING

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VALIDITY:	DATE:
TIN NO.:	PLACE:

PROJECT	COMPLETION OF THE PROPOSED USTP CENTENNIAL MUSEUM USTP CDO PHASE 2
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OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

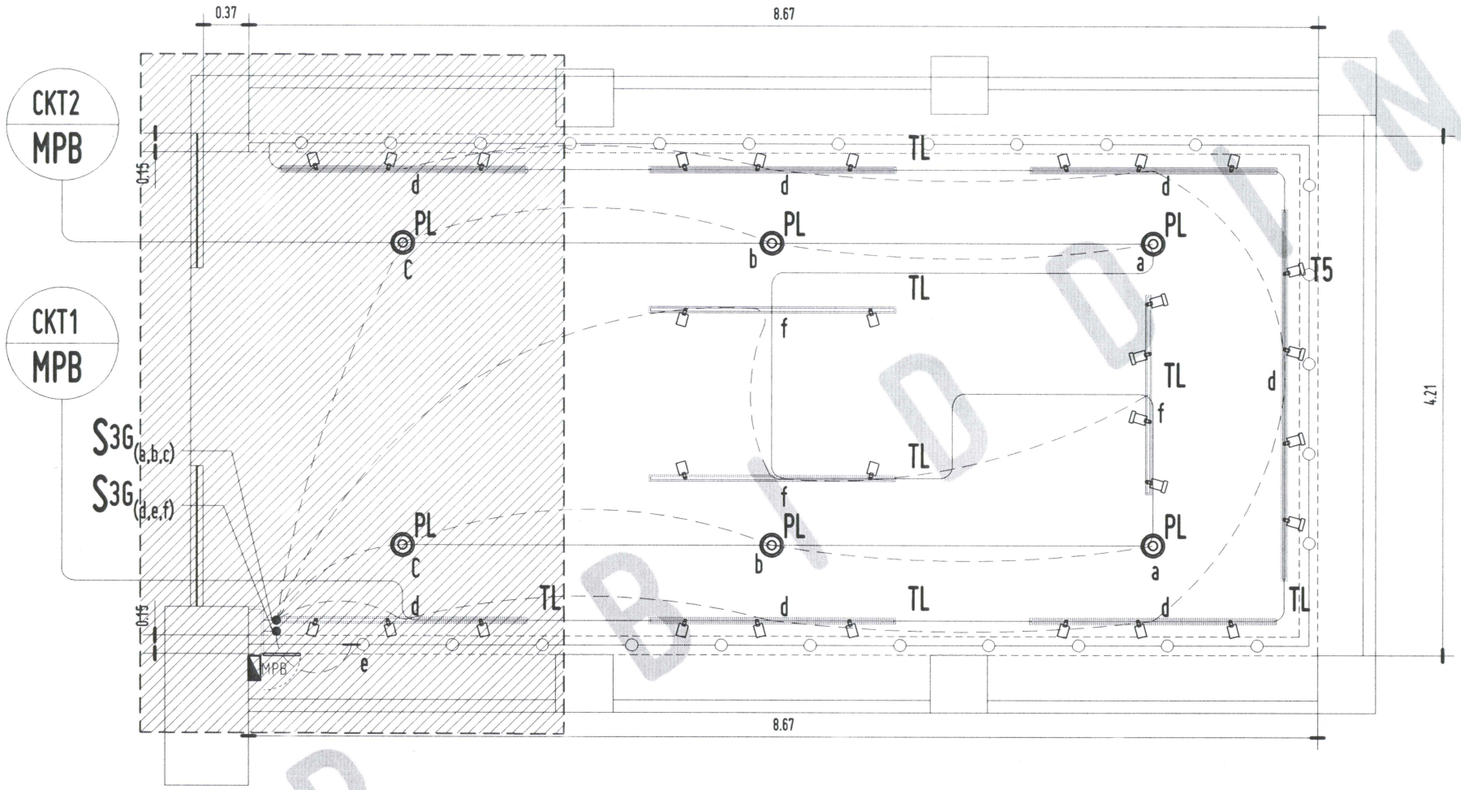
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SHEET CONTENTS: EMERGENCY LIGHT & SMOKE DETECTOR LAYOUT PLAN

DRAWN BY:
DATE DRAWN:
FNT:

AUX1

LEGEND	
MARK	DESCRIPTION
	5W LOW INTENSITY LED TRACK LIGHT
	12W LED PINLIGHT
	LED STRIP LIGHT



ELECTRICAL LIGHTING LAYOUT

E 1 1

SCALE 1:80 MTS

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PROFESSIONAL ELECTRICAL ENGINEER
PRC NO.: PTR NO.:
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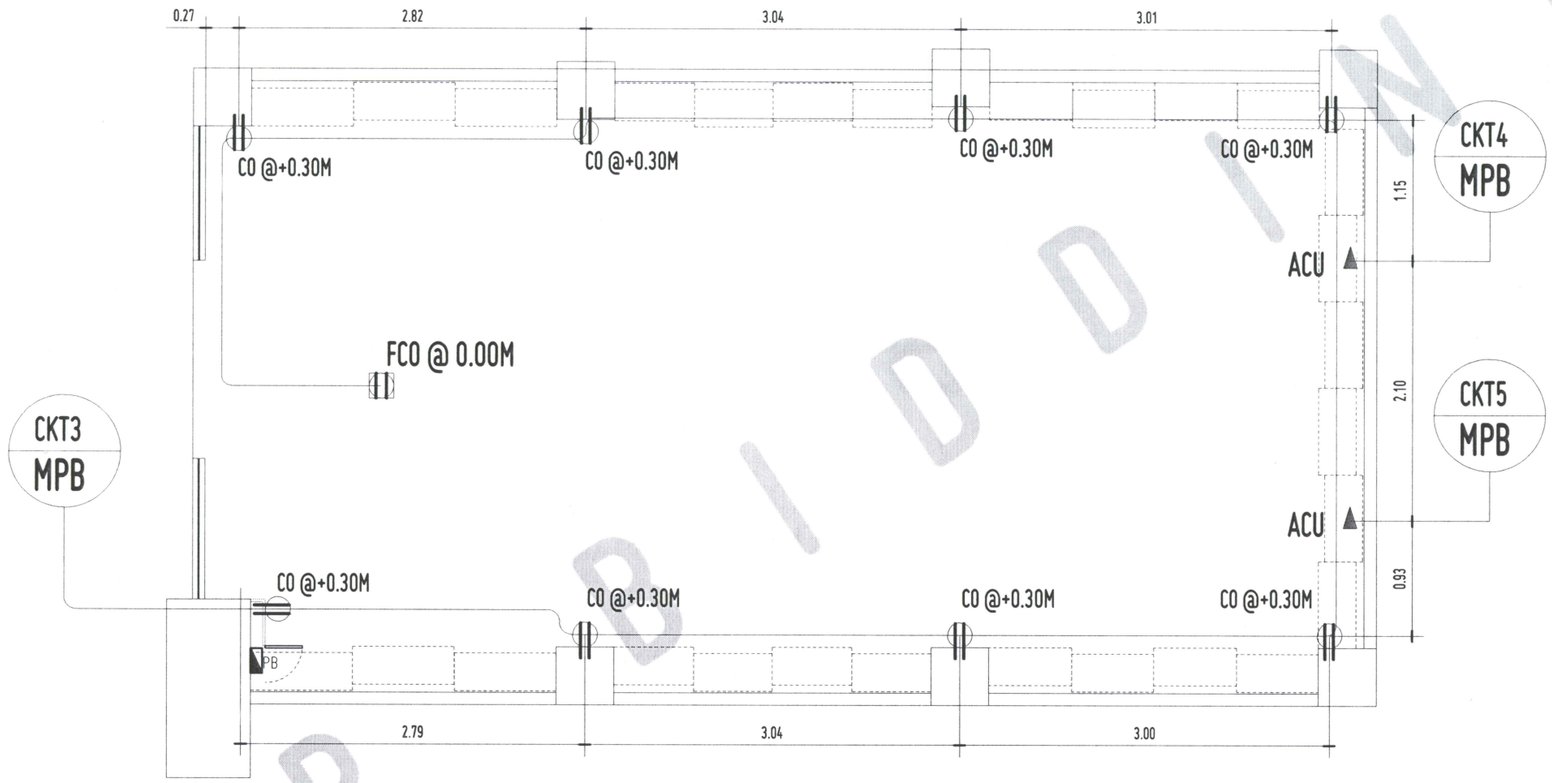
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SHEET CONTENTS: ELECTRICAL LIGHTING LAYOUT
DRAWN BY:
DATE DRAWN:
FNT:

E1

LEGEND	
MARK	DESCRIPTION
	DUPLEX CONVENIENCE OUTLET TAMPER RESISTANT RECEPTACLE
	FLOOR MOUNTED CONVENIENCE OUTLET TAMPER RESISTANT RECEPTACLE
	ACU



ELECTRICAL POWER DISTRIBUTION LAYOUT

E 1 2

SCALE 1:80 MTS

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PROFESSIONAL ELECTRICAL ENGINEER
PRC NO. : | PTR NO.:
VALIDITY: | DATE:
TIN NO. : | PLACE:

PROJECT: COMPLETION OF THE PROPOSED USTP CENTENNIAL MUSEUM
USTP CDO PHASE 2

LOCATION: USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY

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DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. DIONEL O. ALBINA
CHANCELLOR, USTP CAGAYAN DE ORO

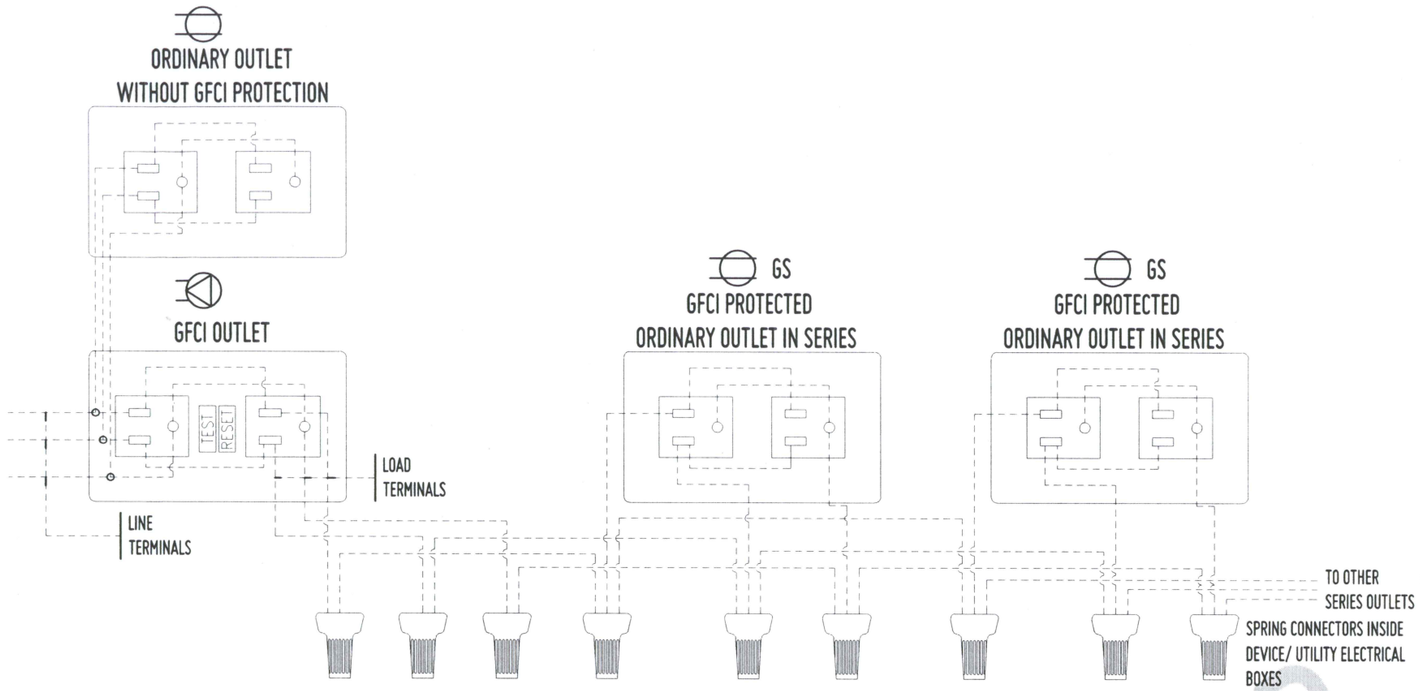
RECOMMENDING APPROVAL:
ATTY. JONATHAN S. OCHE
OFFICER-IN-CHARGE, OFFICE OF THE VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

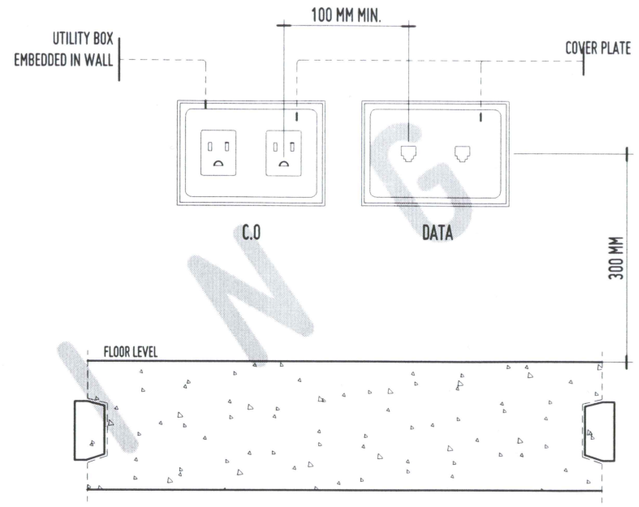
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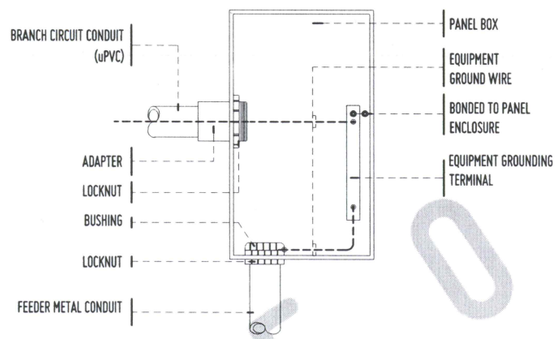
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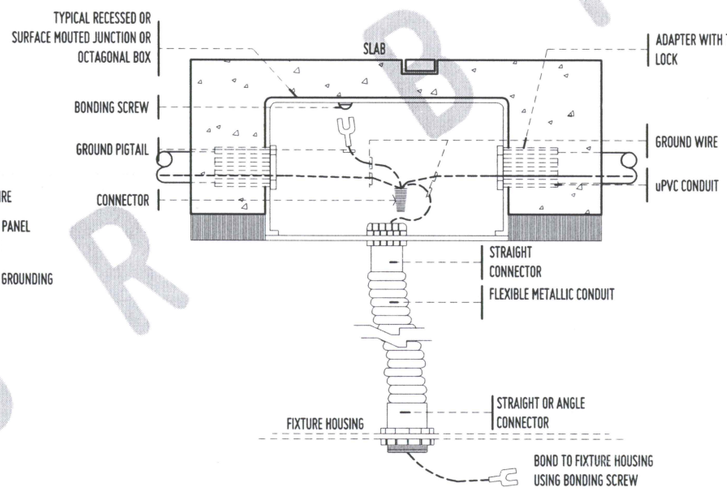
E 4 1 CONV. OUTLET IN SERIES WITH GCFI OUTLET WIRING CONNECTION DETAIL
SCALE N.T.S.



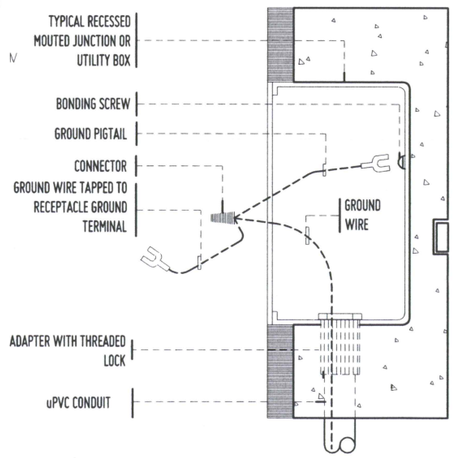
E 4 4 TYPICAL C.O. AND TELEPHONE, DATA OUTLETS MOUNTING DETAILS
SCALE N.T.S.



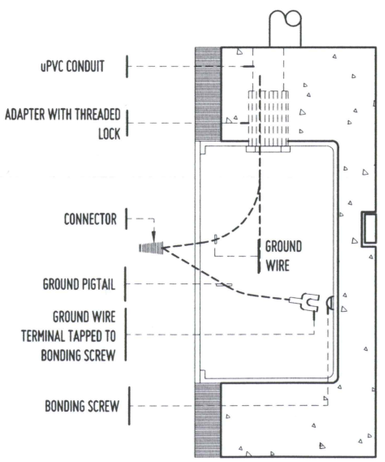
PANEL BOARD



LIGHTING FIXTURE BOX



RECEPTACLE BOX



SWITCH BOX

E 4 3 TYPICAL GROUNDING CONNECTION DETAILS
SCALE N.T.S.

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PROFESSIONAL ELECTRICAL ENGINEER
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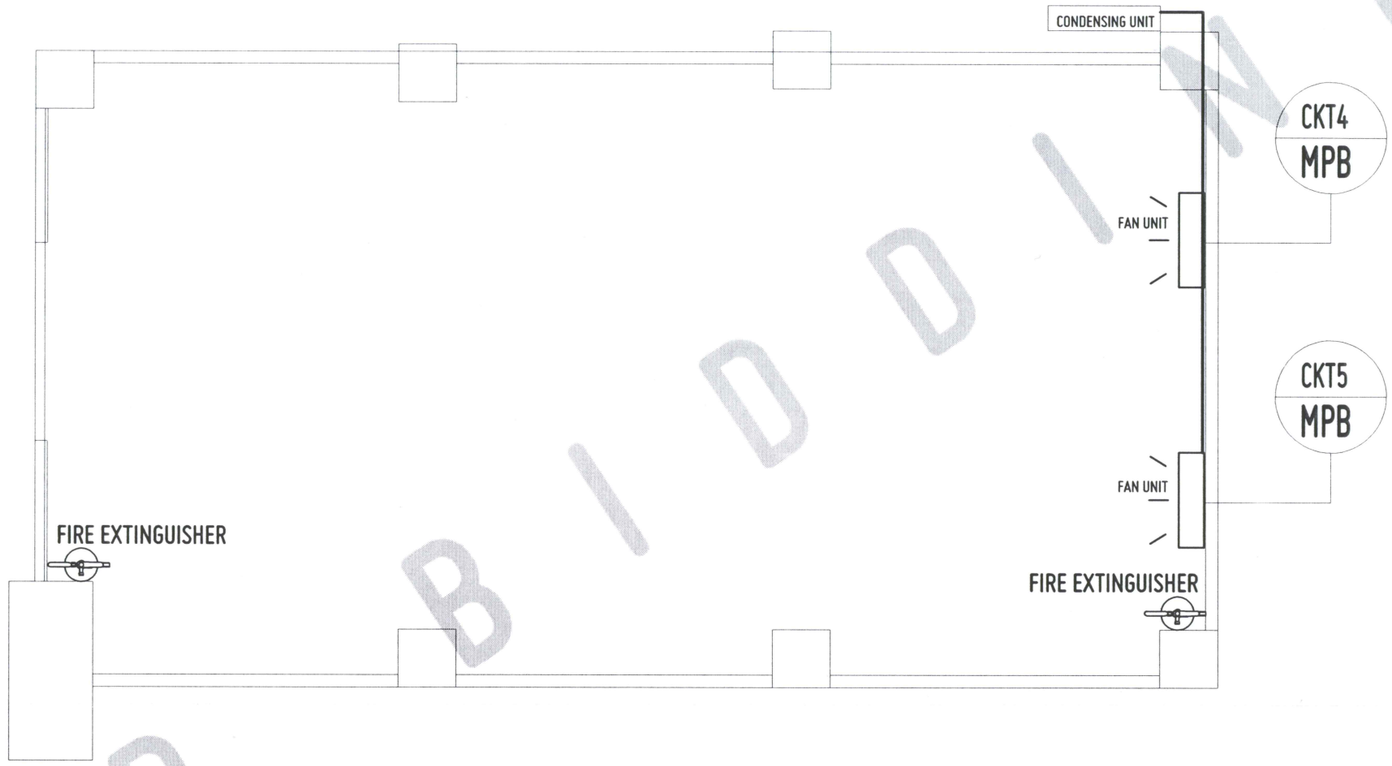
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SHEET CONTENTS:
CONV. OUTLET IN SERIES WITH GCFI OUTLET WIRING CONNECTION DETAIL
TYPICAL GROUNDING CONNECTION DETAILS
TYPICAL C.O. AND TEL. DATA OUTLETS MOUNTING DETAILS

DRAWN BY:
DATE DRAWN:
FNT:

E4

LEGEND	
MARK	DESCRIPTION
FAN UNIT	FAN COIL UNIT 2.5HP
CONDENSING UNIT	AC CONDENSING UNIT
	POWER LINE
FIRE EXTINGUISHER	FIRE EXTINGUISHER TYPE ABC DRY CHEMICAL



ME 1 1

MECHANICAL LAYOUT PLAN

SCALE 1:80 MTS

EQUIPMENT SCHEDULE

SPLIT-TYPE UNIT AIR CONDITIONING SCHEDULE

MARK NO.		QTY.	TYPE	LOCATION	CAPACITY HP/TR	REFRIGERANT DATA
OUTDOOR	INDOOR					
ACCU 01	FCU 01	1	WALL MOUNTED	MUSEUM	1.5 HP	R410 OR APPROVE EQUAL
ACCU 02	FCU 02	1	WALL MOUNTED	MUSEUM	2.5 HP	R410 OR APPROVE EQUAL

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MECHANICAL ENGINEER
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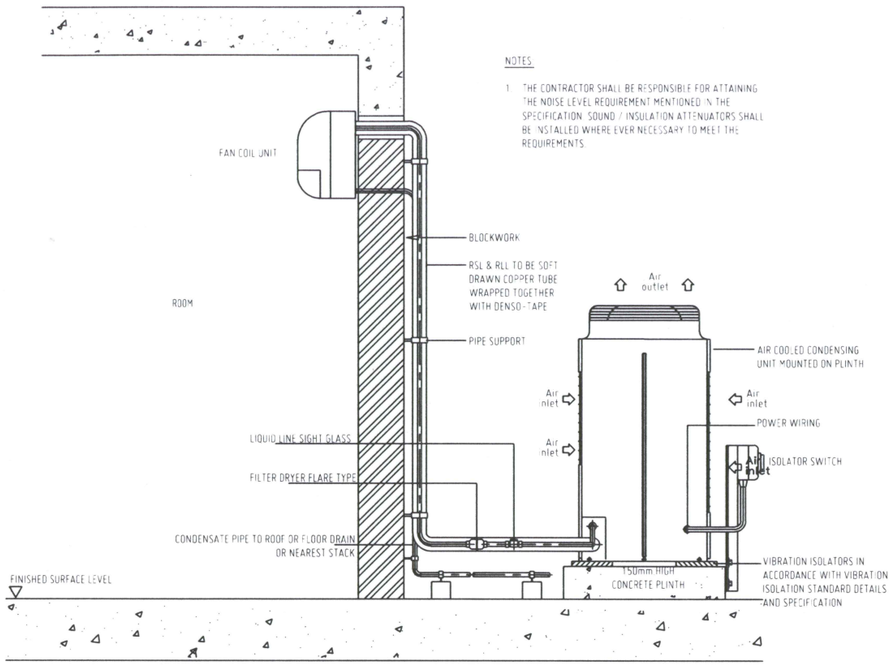
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SHEET CONTENTS: MECHANICAL LAYOUT PLAN

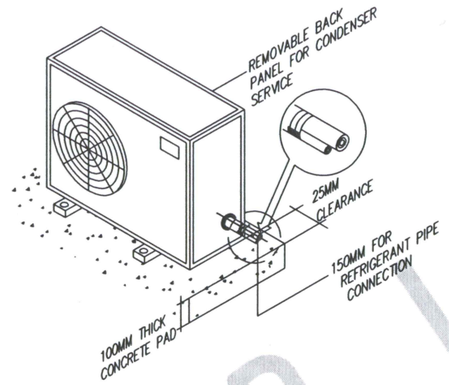
DRAWN BY:
DATE DRAWN:
FNT:

ME1



TYPICAL SPLIT-TYPE CONNECTION DETAIL

NTS



ACCU MOUNTING DETAIL

NTS

1. ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE PHILIPPINES NATIONAL BUILDING CODE, PSME CODE, PSVARE ASHRAE, SMACNA, FIRE CODE OF THE PHILIPPINES AND OTHER REGULATION OF THE LOCAL COMMUNITY.

2. THE TOTAL SCOPE OF WORKS SHALL INCLUDE ALL WORKS DESCRIBED IN THE PLANS LISTED IN THE TECHNICAL SPECIFICATIONS FOR MECHANICAL WORKS.

3. THE WORKS SHALL BE EXECUTED IN CLOSED COORDINATION WITH ALL OTHER TRADES.

4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, EQUIPMENT CATALOG, SAMPLES OF ALL THE MATERIAL TO BE USED BEFORE EXECUTION OF THE WORKS.

5. THE CONTRACTOR OR SUPPLIER SHALL INSTALL ALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

6. ALL PIPE AND DUCT PENETRATION SHALL BE CAULKED WITH FIRE SEALANT.

7. ALL EQUIPMENT REST ON SLAB AND CEILING SHALL BE PROVIDED WITH VIBRATION ISOLATOR TO PREVENT VIBRATION AND NOISE TRANSMISSION.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONCRETE PAD AND SUPPORT OF ALL MECHANICAL EQUIPMENT.

9. THE CONTRACTOR SHALL ARRANGED THE PIPING, DUCTING AND EQUIPMENT TO HAVE EASY ACCESS FOR REMOVING, CLEANING AND SERVICING WITHOUT DISMANTLING THE SYSTEM.

10. ALL POWER WIRING UP TO SPLICE BOX SHALL BE THE ELECTRICAL CONTRACTOR FROM SPLICE BOX TO THE EQUIPMENT BY MECHANICAL CONTRACTOR.

11. PROVIDE AND INSTALL CONTROLS AND CONTROL WIRINGS FOR ALL AIR-CONDITIONING EQUIPMENT.

12. PROVIDE THERMOSTAT TO ALL INDOOR UNITS.

13. PROVIDE SEPARATE CONDENSER DRAIN RISER.

14. PIPE ALL EQUIPMENT DRAIN TO THE NEAREST FLOOR DRAIN PROVIDED BY PLUMBING CONTRACTOR.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BALANCING, TESTING AND COMMISSIONING OF THE WHOLE AIR CONDITIONING, VENTILATION SYSTEM AND SUBMIT WRITTEN DATA PRIOR TO TURN OVER.

16. WORKMANSHIP : THE WORK THROUGHOUT SHALL BE EXECUTED IN THE BEST & MOST THOROUGH MANNER KNOWN TO TRADE & TO THE SATISFACTION OF THE ARCHITECT AND THE ENGINEER.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL GOVERNMENT/LOCAL CONSTRUCTION AND OPERATION PERMITS AND PAY ALL THE REQUIRED FEES.

NOTES ON PIPING INSTALLATION:

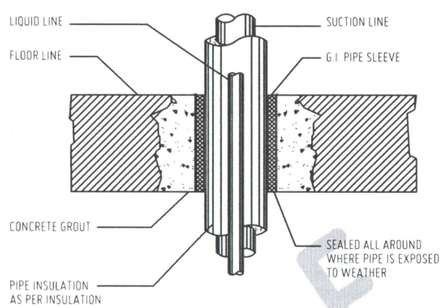
1. REFRIGERANT PIPES SHALL BE INTERNALLY CLEANED BY SWABBING WITH CLEAN COTTON CLOTH TO REMOVE ALL DUST, BURRS, AND OTHER MISCELLANEOUS DIRT.

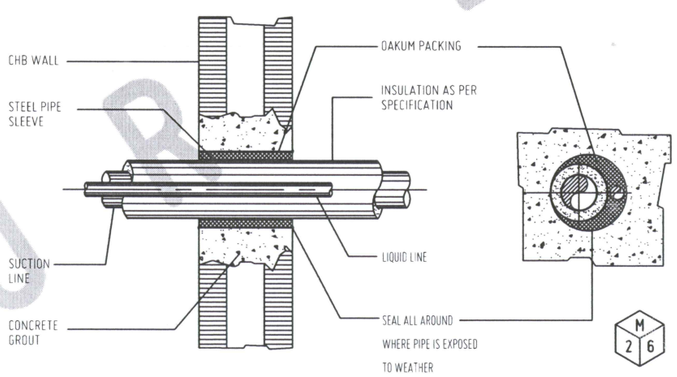
2. WHILE SOLDERING JOINTS, A SWEEP OF INERT NITROGEN GAS SHOULD BE PASSED THROUGH PIPES TO PREVENT OXIDATION DEPOSITS INSIDE.

3. FITTINGS:
   A. USE STANDARD LONG RADIUS COPPER ELBOWS, REDUCERS, ETC. DO NOT USE FIELD-FORMED ELBOWS, REDUCERS, ETC.
   B. JOINTS BETWEEN PIPES SHOULD BE THROUGH STANDARD COPPER COUPLING FORMED FITTING MADE BY SWAGING OR ENLARGING ONE PIPE END TO BE ABLE TO RECEIVE THE OTHER PIPE SECTION WOULD NOT BE ALLOWED.
   C. JOINTS TO SCREWED ACCESSORIES SUCH AS EXPANSION VALVES, FILTER DRIER, ETC. SHALL BE MADE WITH STANDARD FLARED FITTINGS.

4. THE COMPLETED PIPING INSTALLATION SHOULD BE LEAK TESTED BY SUBJECTING THE SAME (BOTH LIQUID AND SUCTION LINE) TO A PRESSURE OF 3100 Pa USING DRY NITROGEN GAS. THIS PRESSURE SHOULD BE LEFT FOR 24 HOURS AND IF THERE IS NO NOTICEABLE REDUCTION IN PRESSURE WITHIN THE PERIOD, THE NITROGEN CHARGE SHALL BE RELIEVED DOWN TO 140KPa. TO SERVE AS HOLDING CHARGE WHILE WAITING FOR THE EQUIPMENT CONNECTION. IF THERE IS NOTICEABLE REDUCTION IN THE TEST PRESSURE, LEAK SHOULD BE LOCATED AND REPAIRED.

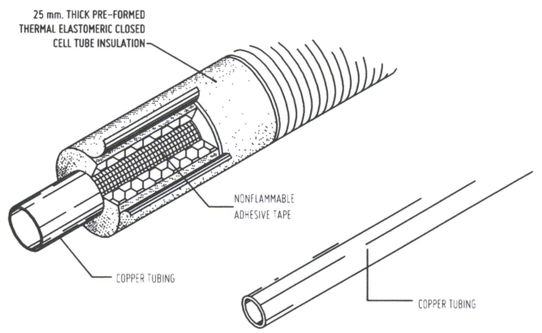
5. PROPERLY TESTED PIPING SHOULD BE SECURELY CAPPED AT BOTH ENDS AND WITH HOLDING CHARGED AS STATED IN ITEM 4 ABOVE WHILE WAITING FOR FINAL CONNECTION TO EQUIPMENT. INSULATE SUCTION PIPING ONLY AFTER PROPER LEAK TESTING.





REFRIGERANT PIPE THRU WALL DETAIL

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NOTE

1. CONDENSATE DRAIN PIPE INSULATION SHALL BE OF SIMILAR MATERIAL BUT 19 mm. THICK.
2. PROVIDE ALUMINUM CLADDING FOR OUTDOOR REFRIGERANT PIPING.

REFRIGERANT PIPE INSULATION DETAIL

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FOR BIDDING

REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
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MECHANICAL ENGINEER
PRC NO.: PTR NO.:
VALIDITY: DATE:
TIN NO.: PLACE:

PROJECT: COMPLETION OF THE PROPOSED USTP CENTENNIAL MUSEUM
USTP CDO PHASE 2
LOCATION: USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:
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SHEET CONTENTS:
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ACCU MOUNTING DETAIL
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DATE DRAWN:
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