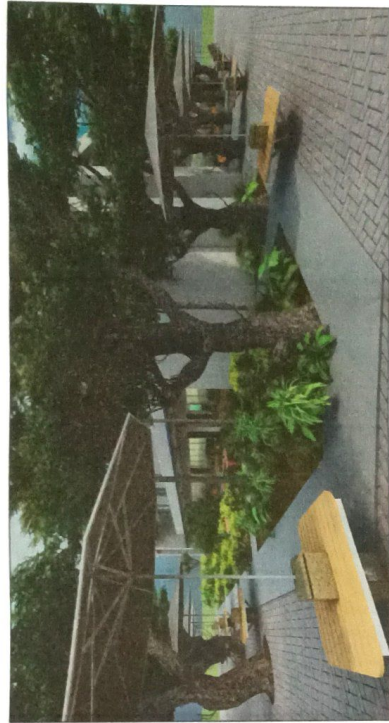
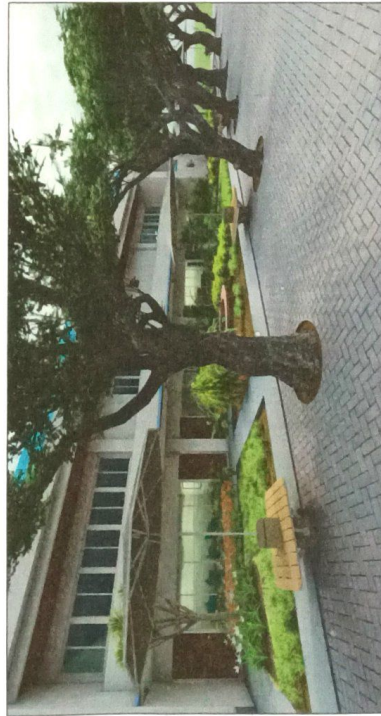




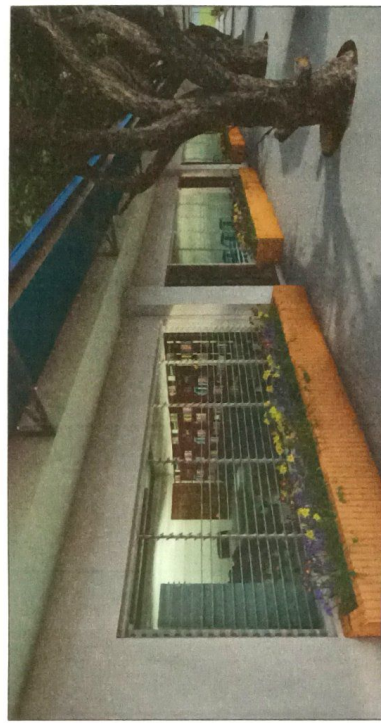
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NOTE



PERSPECTIVE-2
NOTE

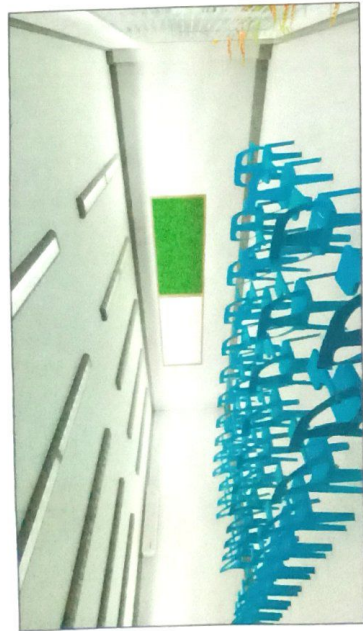


PERSPECTIVE-3
NOTE



PERSPECTIVE-4
NOTE

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CITY 6000 TEL: (088) 855-4398 (088) 855-4399 (088) 855-4397 (088) 855-4396 FAX: (088) 855-4398 WWW: USTSP.EDU.PH	PREPARED BY ENGR. ANJELYN C. NERI, JR. PRG. NO. _____ TRG. NO. _____ DATE SUBMITTED _____	PROJECT PROPOSED RENOVATION OF SENIOR HIGH CLASSROOMS & OFFICES LOCATION: C. M. RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	RECOMMENDING APPROVAL [Signature] ENGR. ALEX L. MUREL CHIEF ENGINEER - CIVIL ENGINEERING DIVISION	APPROVED BY [Signature] CITY ENGINEER (CIVIL)	SHEET CONTENTS PERSPECTIVES	DRAWN BY: GENE DATE: 25/08/2020 LAD BY: zaidgranada Job Order: 2000/2020 Proj. Code: 114203 SCALE: 1:1000	SHEET NO. A1 1
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TYPICAL CLASSROOMS



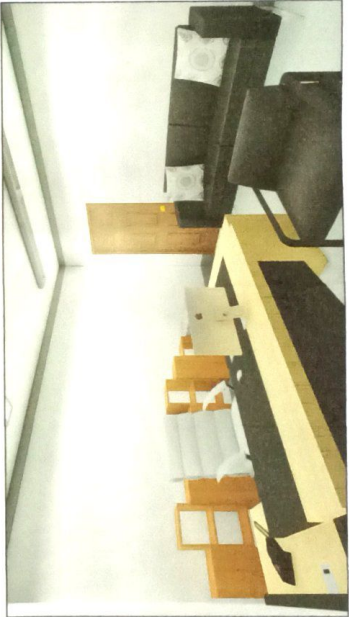
FACULTY OFFICE



PRINCIPAL'S OFFICE - LOUNGE



PRINCIPAL'S OFFICE - PANTRY



PRINCIPAL'S OFFICE



CONFERENCE ROOM



PREPARED BY: ENGR. ANJELYN C. NERILJA PRG. NO. _____ TRN. NO. _____ DATE ISSUED: _____	PROJECT: PROPOSED RENOVATION OF SENIOR HIGH CLASSROOMS & OFFICES LOCATION: C.M. RECTO AVENUE, LAMPARAN, CAGAYAN DE ORO CITY OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	RECOMMENDING APPROVAL: ENGR. ALEX L. MAIBUAL <small>ENR CONSULTANT FOR PROJECTS & CONSTRUCTION</small>	APPROVED BY: ATTY. DORCAS O. BANA <small>UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES</small>	SHEET CONTENTS: INTERIOR RENOVATIONS	DRAWN BY: GONE DATE: 25/08/2020 LAD BY: JACOB/ANJELYN Case No.: 2019-00000000 Proj. Date: 14/08/20 SCALE: 1:1000/000
		SEAL: _____ DATE ISSUED: _____	SHEET NO.: A1 TOTAL SHEETS: 2		

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THIS SITE



VICINITY MAP



THIS SITE



SITE DEVELOPMENT LAYOUT



<p>REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CITY</p> <p>C.M. RECTO AVENUE, LUPATAN, CAGAYAN DE ORO CITY TEL: FAX (083) 851-1331 / 851-1124 800 516 8888 / 851-1396 WWW.USCST.EDU.PH</p>		<p>PREPARED BY: ENGR. ANASTACIO M. RIVERA, JR. PR. NO. _____ PIN NO. _____</p>	<p>PROJECT: PROPOSED RENOVATION OF SENIOR HIGH CLASSROOMS & OFFICES</p> <p>LOCATION: C.M. RECTO AVENUE, LUPATAN, CAGAYAN DE ORO CITY OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES</p>	<p>RECOMMENDING APPROVAL: [Signature] ENGR. LUIS M. LAUREL ENR. REG. NO. 00000000000000000000</p>	<p>APPROVED BY: [Signature] ATTY. DONALD S. ALVARA ENR. REG. NO. 00000000000000000000</p>	<p>SHEET CONTENTS: SITE DEVELOPMENT LAYOUT VICINITY MAP</p>	<p>DRAWN BY: JGONE DATE: 2008/02/02 CAD BY: jgongorator JOB NO.: 00000000000000000000 SHEET NO.: 00000000000000000000 SCALE: 1:1000mm</p>	<p>SHEET NO. A2</p>
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SCOPE OF WORKS:

PARTITIONING:

- G.I. METAL USED FOR STUDS AND TRACKS.
- TWO SIDES DRY WALL PARTITIONS ARE USED. (PICOM BOARDS)
- TEX SCREWS ARE USED FOR FASTENING STUDS AND CONCRETE. (APPROVE AS EQUAL)
- SCREWS/RIVETS ARE USED FOR FASTENING PICOM BOARDS TO STUDS AND TRACKS (APPROVED AS EQUAL)
- FILLERS ARE APPLIED FOR CONNECTIONS AND LAPPING OF BOARDS TO CONCEAL GAPS
- PUNCH HOLES SCREW/RIVET AND ETC.
- REPLACEMENT OF DETERIORATED/DEFECTIVE PARTITIONS AT ALL CLASSROOMS.
- 6 1/2" THICK BASEBOARDS AND TRIM INSTALLATION IS PART OF THE SCOPE FOR ALL CLASSROOMS & OFFICES.
- 4 1/2" THICK CORNICE INSTALLATION IS PART OF THE SCOPE FOR OFFICES ONLY.

DOORS AND WINDOWS REPLACEMENT & INSTALLATION:

- DEMOLITION/CHIPPING OF WALLS FOR ADDITIONAL OPENING FOR DOORS, AS PER CLASSROOM REQUIREMENT.
- DEMOLITION/CHIPPING OF PLANT BOXES.
- REMOVAL OF ALL OLD WINDOW GLASS AND DOORS SHOULD BE TAKEN CARE OFF. (TO BE HANDLE PROPERLY AND SUBJECT TO BE SAFE KEEP WITH THE SUPERVISION OF CSNU PERSONNEL)
- CONCRETING WORKS + FINISH FOR ALL WALLS AFFECTED BY CHIPPING/CUTTING OF DOORS AND WINDOWS.
- CONCRETING WORKS + FINISH FOR ALL PLANT BOXES AFFECTED FOR CHIPPING/CUTTING OF DOORS AND WINDOWS.
- INSTALLATION OF DOORS AND WINDOWS AS PER DESIGNER'S SPECIFICATIONS.

ROOF FRAMING AND ROOFING:

- REPLACEMENT OF ALL ROOF AND ROOF FRAMING ELEMENTS.
- STEEL COLUMNS ARE SUBJECT TO BE REMOVED.
- FASTENING OF ROOF FRAMING ELEMENTS AT THE PARAPET.
- ROOFING MATERIAL AS INDICATED TO SPECIFICATIONS.
- GUTTER MATERIAL AND COLOR AS PER INDICATED IN SPECIFICATIONS.
- EXTERIOR CEILING WORKS ARE PART OF THE SCOPE OF WORK (USING 1/2" THICK MARINE PLYWOOD SCREWED @ G.I. METAL RUNNERS AS CEILING FRAMES)

TILE WORK

- OFFICES AND TOILET ARE SUBJECT FOR FLOOR TILE WORKS USING 400x400mm. ALBEA GREY PORCELAIN TILES (APPROVED AS EQUAL)
- PANTRY COUNTER TOP TILES 600x600mm. PORCELAIN BLACK & BEIGE GLOSSY.

PLUMBING:

- SINK INSTALLATION, PLUMBING ACCESSORIES AND OTHER RELATED ASPECT ARE PART OF THIS SCOPE.

ELECTRICAL & ELECTRONICS:

- ALL ELECTRICAL FIXTURES INSTALLATION AND RE-WIRING ARE PART OF THIS SCOPE.
- ALL ELECTRONIC FIXTURES INSTALLATION AND WIRING/CABLING ARE PART OF THIS SCOPE.

MECHANICAL:

- ALL MECHANICAL WORKS LIKE AIR CONDITIONING INSTALLATIONS, CABLING BRACKET, AND OTHER RELATED ASPECT ARE PART OF THE SCOPE OF WORK.

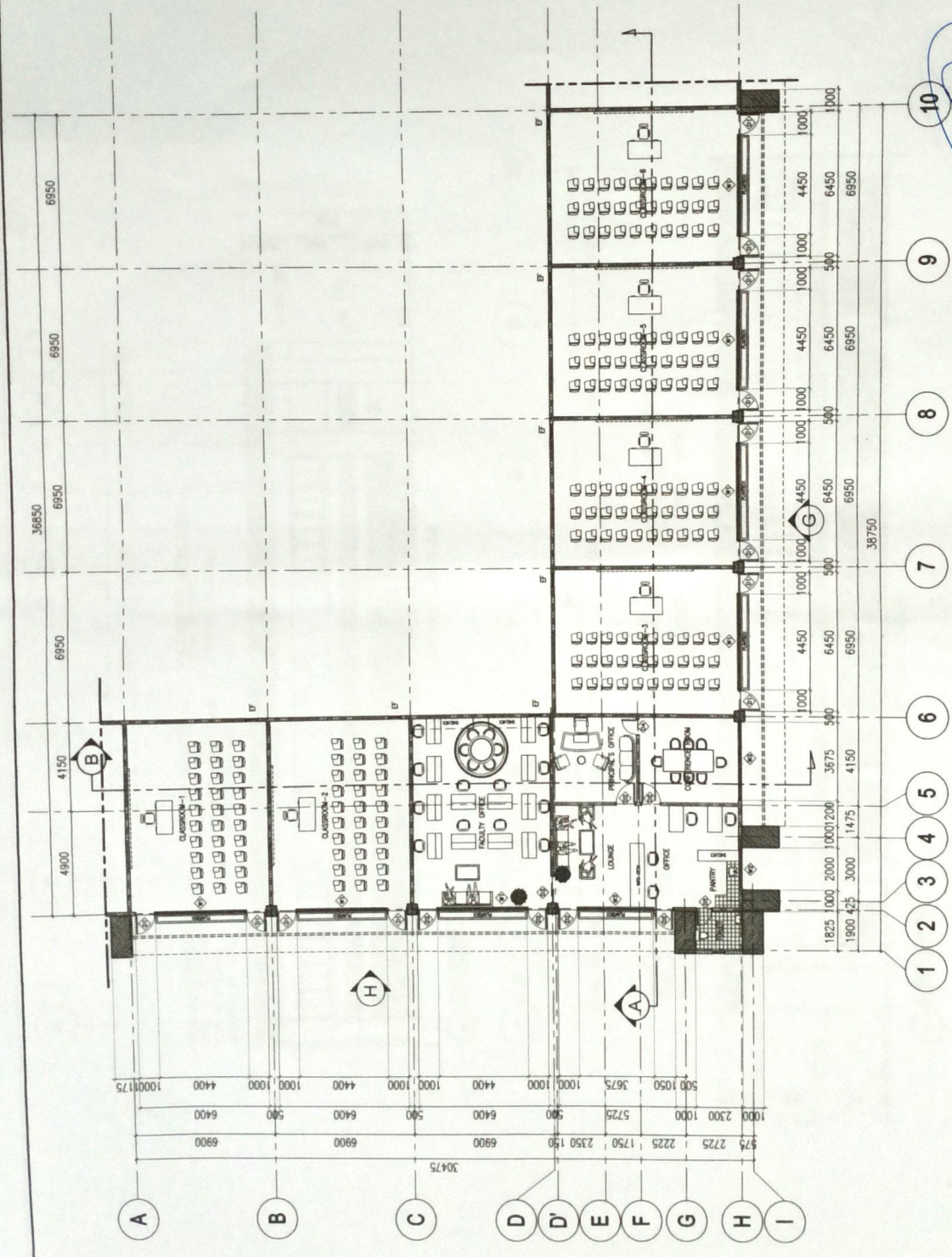
CARPENTRY:

- ALL HANGING CABINETS, INFO DESK AND BOOK SHELVES INDICATED IN THE PLAN ARE PART OF THE SCOPE OF WORK.

PAINTING WORKS (CLASSROOMS & OFFICES):

- ALL PAINTING JOB SHOULD UNDERGO PREPARATORY TO SANDING, CLEANING, DUST-OFF AND FILLER/SEALING BEFORE PAINTING.
- ALL REPAINTING JOB SHOULD UNDERGO PREPARATORY REMOVAL OF FLAKING/PEELING-OFF OLD PAINT, SANDING, CLEANING, AND FILLER/SEALING BEFORE REPAINTING PROCESS.
- ALL CLASSROOMS WALLS (EXTERIOR & INTERIOR) AND CEILING ARE PAINTED WITH TWO COATS OF FLAT WALL WHITE ENAMEL/LATEX TO ACHIEVE GOOD QUALITY, AND A TOP COAT OF WHITE SEMI GLOSS ENAMEL/LATEX WITH DIRT RESISTING CAPACITY.
- ALL CLASSROOMS FLOORS ARE PAINTED WITH TWO-THREE COATS OF RED COLORED ELASTO FLOOR PAINT.
- ALL CLASSROOM BASEBOARDS ARE PAINTED WITH DEEP SEA BLUE SEMI GLOSS ENAMEL/LATEX DIRT RESISTING PAINT.
- ALL OFFICES (EXTERIOR & INTERIOR) WALLS ARE PAINTED WITH TWO COATS OF FLAT WALL WHITE ENAMEL/LATEX TO ACHIEVE GOOD QUALITY, AND A TOP COAT OF WHITE SEMI GLOSS ENAMEL/LATEX WITH DIRT RESISTING CAPACITY.
- ALL OFFICE BASEBOARDS ARE PAINTED WITH CONCRETE GRAY SEMI GLOSS ENAMEL/LATEX DIRT RESISTING PAINT.
- ALL OFFICE CORNICES ARE PAINTED WITH CONCRETE GRAY SEMI GLOSS ENAMEL/LATEX DIRT RESISTING PAINT.
- ALL EXTERIOR CEILING SHOULD BE PAINTED WITH 2 COATS OF SEMI-GLOSS WHITE ENAMEL PAINT.
- SEMI-GLOSS ENAMEL/LATEX PAINT.

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES C-11, Recto Avenue, Linaoan, 8000 Cagayan de Oro City Tel. Nos. (0882) 71-60-65 / (0882) 826-1738 / 826-1739 Tele. Fax (0882) 846-6496 Web Site: www.usstp.edu.ph		PREPARED BY ENR MARCO C. NERY, JR. PROJECT ENGINEER PIN NO. / DATE ISSUED	PROJECT PROPOSED RENOVATION OF SENIOR HIGH CLASSROOMS & OFFICES	RECOMMENDING APPROVAL (FOR CLASSROOMS) APPROVED (FOR OFFICES) APPROVED ENR ABEL C. MAIBAL PIN NO. / DATE ISSUED	APPROVED BY ATC CAROL O. ALBINA PIN NO. / DATE ISSUED	SHEET CONTENTS INTERIOR PERSPECTIVES SCOPE OF WORKS	DRAWN BY: GOME DATE: 05/08/2020 CAD BY: 05/08/2020 Job Checked: 05/08/2020 Pin Date: 04/28 SCALE: 1:200mm	SHEET NO. A3
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DRAWN BY: JONE
 DATE: 2/20/2020
 CAD BY: janzaprinah
 URM: 000000000000
 Proj. Date: 2/14/20
 SCALE: 1:300mm
 SHEET NO: **A4**

SHEET CONTENTS:
FLOOR PLAN
 APPROVED BY:

ATTY. JEWEL O. ALMAS
CONSULTANT - UPT-CDO

RECOMMENDING APPROVAL:

ENGR. ED. MAUREA
VICE CHAIRMAN FOR FINANCE & ADMINISTRATION

RECOMMENDING APPROVAL:

PETER S. PANISWANO
DIRECTOR - HIGHER EDUCATION DIVISION

PROPOSED RENOVATION OF SENIOR HIGH CLASSROOMS & OFFICES
 PROJECT
 LOCATION: C.M. RECTO AVENUE, LAPANAN, CAGAYAN DE ORO CITY
 OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

PREPARED BY:
ENGR. JANEZ C. NERA, JR.
 PROJECT NO.:
 DRAWING NO.:
 DATE ISSUED:

REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES
 C.M. RECTO AVENUE, LAPANAN 9000 CAGAYAN DE ORO CITY
 TEL. No. (08833) 71-66-65 / (081) 85-4731 / 85-4739
 WEB SITE: www.usst.edu.ph

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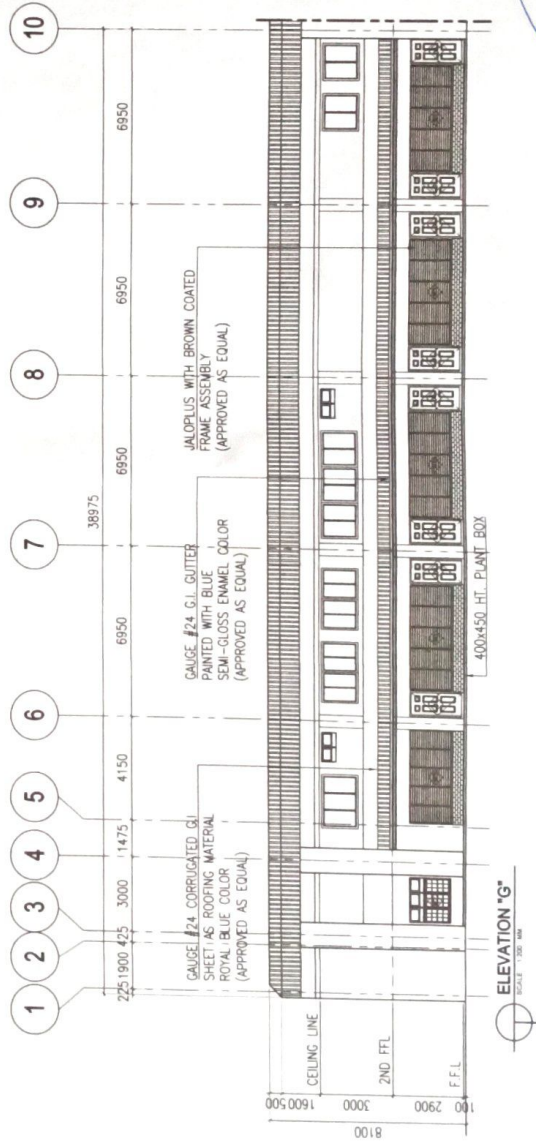
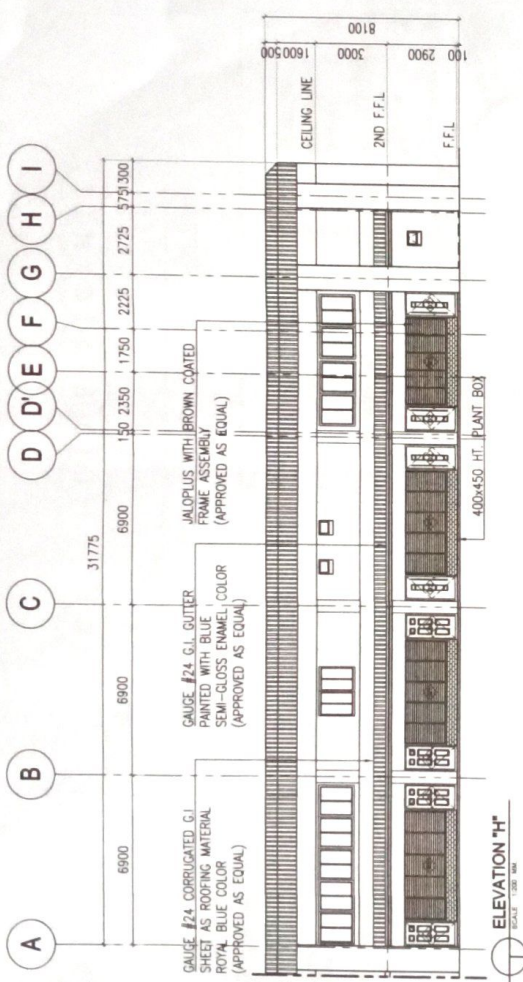
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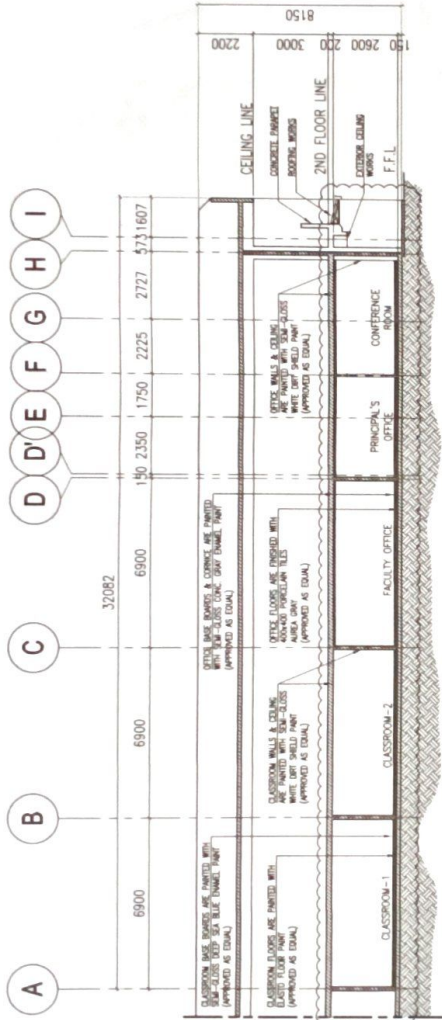
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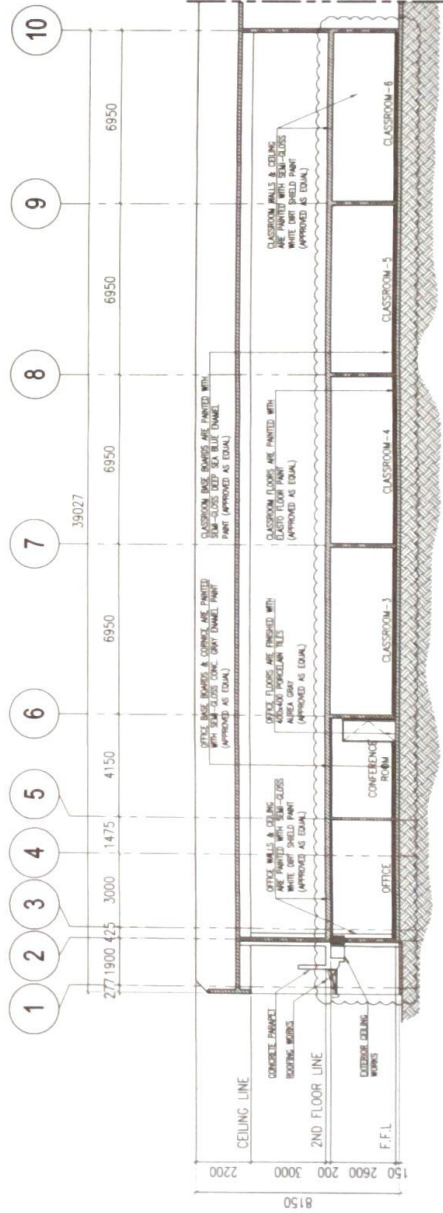
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PREPARED BY ENGR. ANGELO C. NERIA, JR. PRC. NO. _____ TR. NO. _____ DATE: _____	PROJECT PROPOSED RENOVATION OF SENIOR HIGH CLASSROOMS & OFFICES LOCATION: C. M. RECTO AVENUE, LARANGAN, CALAYAN, CAGAYAN DE ORO CITY OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	RECOMMENDING APPROVAL ENGR. ALD. L. MAURAL RECOMMENDED FOR FINANCE & CONSTRUCTION	APPROVED BY ATTY. DONALD O. ALBINA UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	SHEET CONTENTS ELEVATION - H	DRAWN BY: GENE DATE: 25/08/2020 CHECKED BY: enr. ANGELO C. NERIA, JR. DATE: 25/08/2020 SCALE: 1:200mm	SHEET NO. A5
				UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES C. M. RECTO AVENUE, LARANGAN 9000 CALAYAN DE ORO CITY TEL. #4 (088) 824-8888 (088) 880-1158 880-1159 WWW.UTSP.EDU.PH		

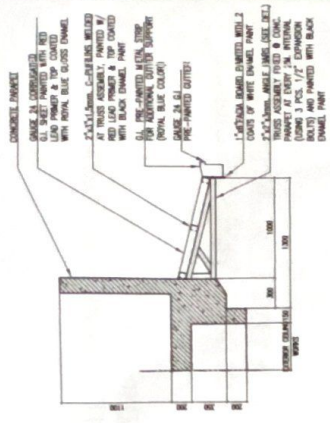


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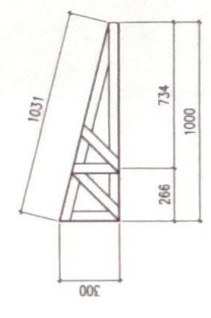


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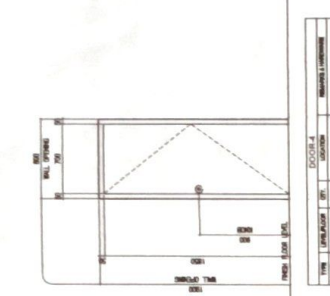
REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CITY 8000 C.M. RECTO AVENUE, LAPASAN 8000 CAGAYAN DE ORO CITY TEL. Nos. (08822) 77-80-85 / (0881) 855-738 / 855-739 WEB SITE: www.usstp.edu.ph	PREPARED BY ENR. ANGELO C. HERI, JR. PINOY NO. _____ DATE ISSUED _____	PROJECT PROPOSED RENOVATION OF SENIOR HIGH CLASSROOMS & OFFICES	LOCATION C.M. RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY DAWER, UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	RECOMMENDING APPROVAL PETE S. PANGBANO (PROFESSOR, UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES)	RECOMMENDING APPROVAL DR. JACINTO M. LAUREAL (VICE CHANCELLOR, UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES)	APPROVED BY DR. DOUGLAS O. ALBINA (VICE CHANCELLOR, UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES)	SHEET CONTENTS SECTION - A SECTION - B	DRAWN BY: GONE DATE: 25/08/2020 CHECKED BY: PARTICIPANT DATE: 25/08/2020 (See Check-UP/2020) PLOT DATE: 24/08/20 SCALE: 1/8" = 1'-0"	SHEET NO. A6
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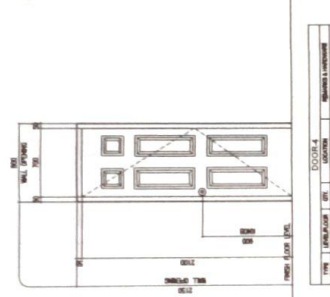
ROOFING EXTENSION DETAIL
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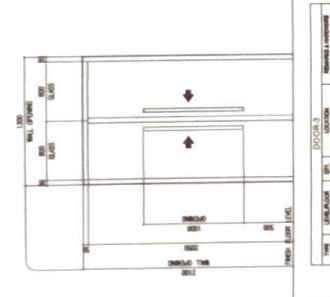
TRUSS FABRICATION DETAIL
SCALE: 1/8" = 1'-0"



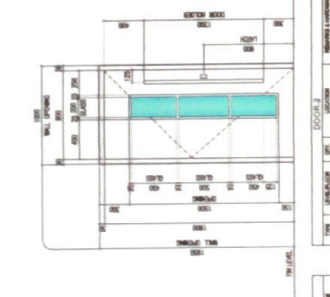
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TYPE	LOCATION	REVISION	DATE
1	CLASSROOM	1	10/10/2020



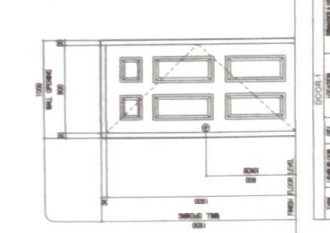
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TYPE	LOCATION	REVISION	DATE
1	CLASSROOM	1	10/10/2020



DOOR-3		RECOMMENDED APPROVAL	
TYPE	LOCATION	REVISION	DATE
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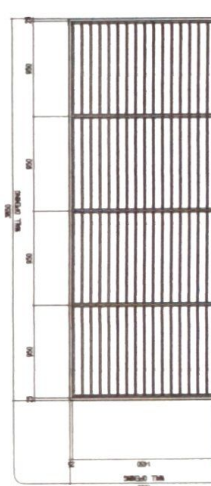


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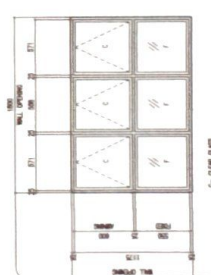


DOOR-5		RECOMMENDED APPROVAL	
TYPE	LOCATION	REVISION	DATE
1	CLASSROOM	1	10/10/2020

SCHEDULE OF DOORS
SCALE: 1/8" = 1'-0"



WINDOW-1		RECOMMENDED APPROVAL	
TYPE	LOCATION	REVISION	DATE
1	CLASSROOM	1	10/10/2020



WINDOW-2		RECOMMENDED APPROVAL	
TYPE	LOCATION	REVISION	DATE
1	CLASSROOM	1	10/10/2020



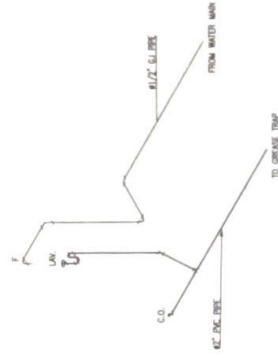
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TYPE	LOCATION	REVISION	DATE
1	CLASSROOM	1	10/10/2020

SCHEDULE OF WINDOWS
SCALE: 1/8" = 1'-0"

PREPARED BY ENR. ANCEL CHER J. PROJECT NO. SHEET NO.	PROJECT PROPOSED RENOVATION OF SENIOR HIGH CLASSROOMS & OFFICES LOCATION: C.M. RECTO AVENUE, LAPAN, GUANAYAN DE ORIO CITY OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	RECOMMENDED APPROVAL PETER S. PANGASINAN (SEAL)	RECOMMENDED APPROVAL DR. J. L. ANGELES (SEAL)	APPROVED BY ATTY. JAMES O. ALUMA (SEAL)	SHEET CONTENTS SCHEDULE OF DOORS SCHEDULE OF WINDOWS	DRAWN BY: DONE DATE: 10/10/2020 CHECKED BY: ENR. ANCEL CHER J. PROJECT NO.: SHEET NO.:
					SHEET NO. A7	

KEY TO SYMBOLS:

- WC WATER CLOSET
- LAV LAVATORY
- CO CLEAN OUT
- F FAUCET

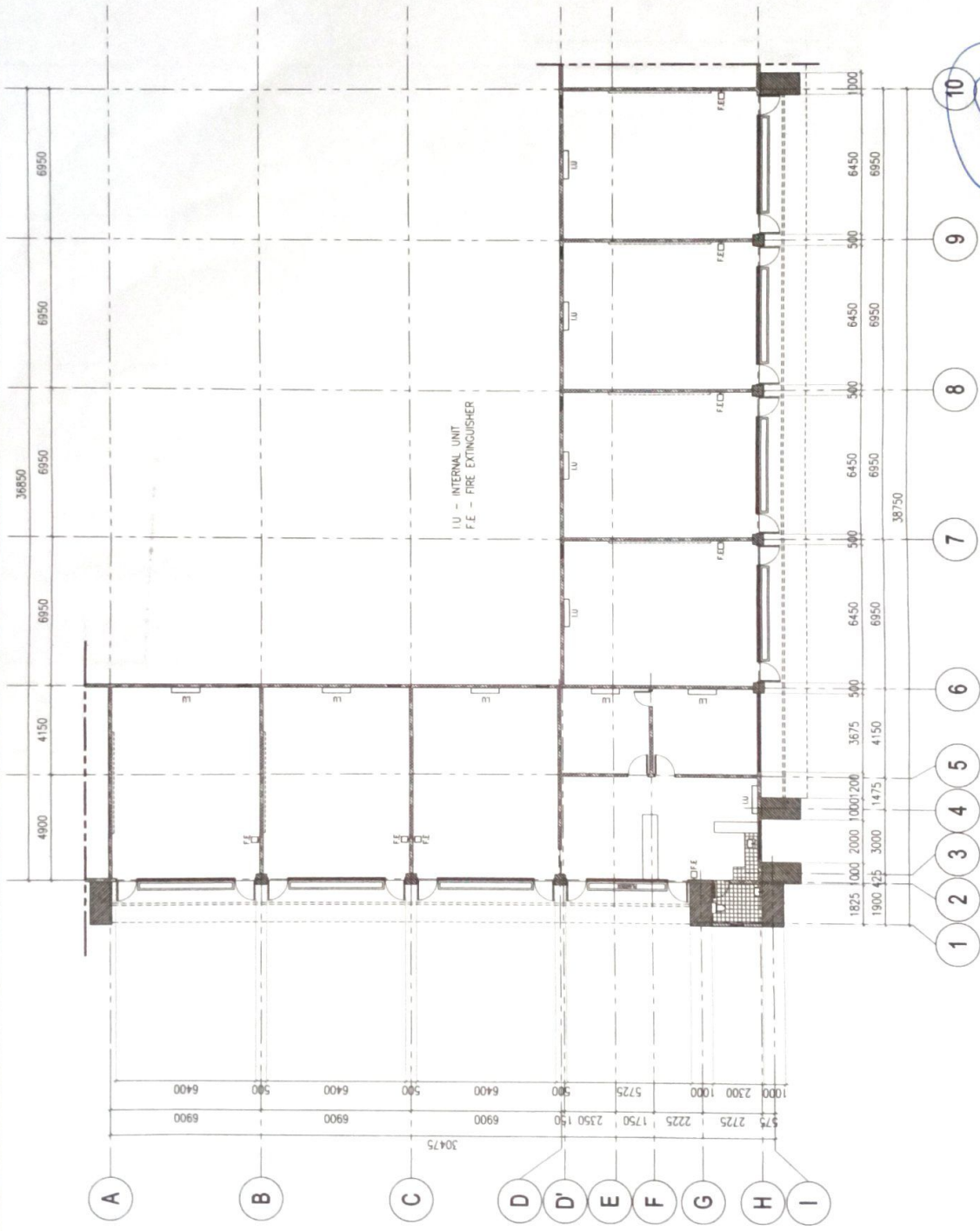


FRESH WATER & SANITARY ISOMETRIC LAYOUT
SCALE: 1/8" = 1'-0"

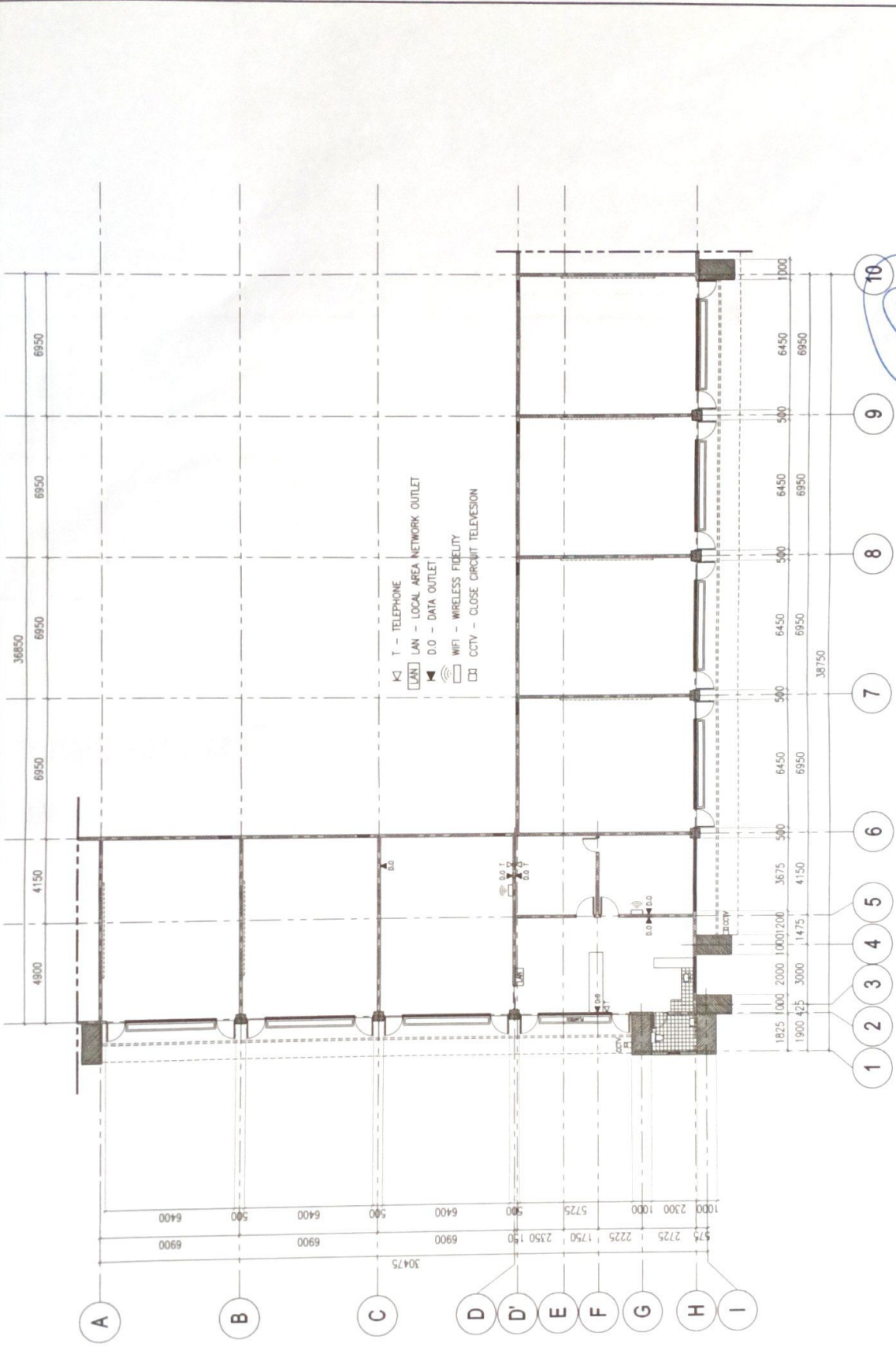
SPECIFICATIONS

1. ALL PLUMBING INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LOCAL ORDINANCE & PERTINENT PROVISIONS OF THE EXISTING BUILDING CODE.
2. ALL PLUMBING INSTALLATION WORK SHALL BE DONE UNDER THE DIRECT SUPERVISIONS & RESPONSIBLE DIRECTION OF A DULY LICENCED SANITARY ENGINEER OR MASTER PLUMBER.
3. ALL MATERIALS TO BE USED SHALL BE BRAND NEW OR APPROVED QUALITY, STANDARD INSTALLATION & FREE FROM DEFECTS.

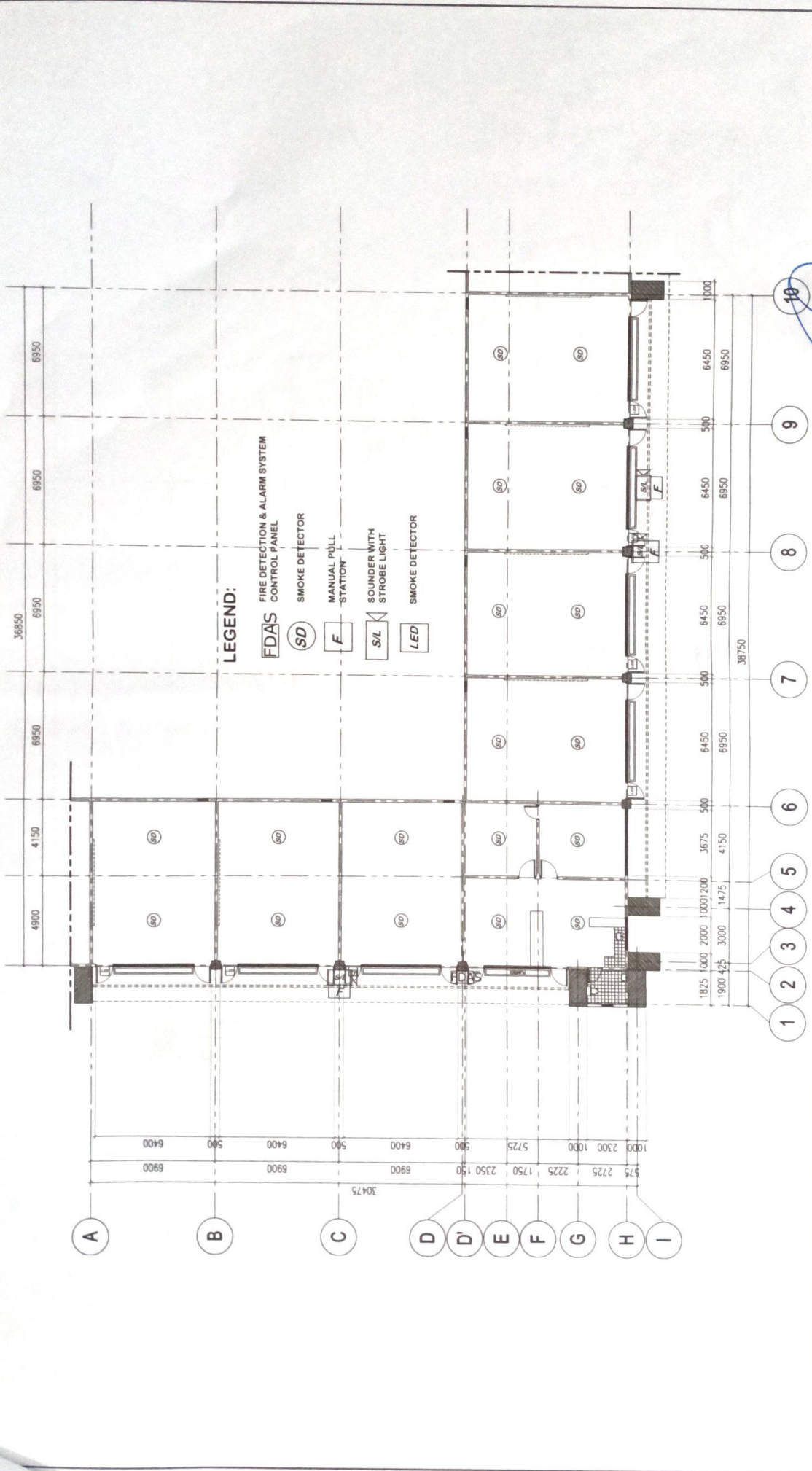
REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CITY 9000 TEL. NO. (8082) 334-4400 FAX. NO. (8082) 334-4401 TEL. FAX (888) 884-8888 FAX. (888) 884-8889 WEB SITE: www.usstp.edu.ph	PREPARED BY: ENGINEER ARKEL M. NERI, JR. REG. NO. _____ TIN NO. _____	PROJECT: PROPOSED RENOVATION OF SENIOR HIGH CLASSROOMS & OFFICES LOCATION: C. M. RECTO AVENUE, JAPARAN, CAGAYAN DE ORO CITY OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	RECOMMENDED APPROVAL: PETER S. PAMIRANO REGISTERED PROFESSIONAL ENGINEER (Professional Stamp)	RECOMMENDED APPROVAL: ENGR. ARKEL M. NERI, JR. REGISTERED PROFESSIONAL ENGINEER (Professional Stamp)	SHEET CONTENTS: PLUMBING LAYOUT ISOMETRIC	DRAWN BY: BONE DATE: 2/28/2020 CHECKED BY: ARKEL M. NERI, JR. DATE: 2/28/2020 DESIGNED BY: ARKEL M. NERI, JR. DATE: 2/28/2020 SCALE: 1/8" = 1'-0"	SHEET NO: A10
	APPROVED BY: (Professional Stamp) ATTY. JOSE C. ALBA REGISTERED PROFESSIONAL ARCHITECT			APPROVED BY: (Professional Stamp)		SHEET NO.	



PREPARED BY: ENR. ANNETTE C. NER, Jr. PRG. NO. _____ TRK. NO. _____ DATE ISSUED _____	PROJECT: PROPOSED RENOVATION OF SENIOR HIGH CLASSROOMS & OFFICES LOCATION: C. M. RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	RECOMMENDING APPROVAL: ENR. ARNEL L. MURIEL VICE CHAIRMAN - FIRE PREVENTION & PROTECTION	APPROVED BY: ATD. ARNEL D. ALBINA FIRE SAFETY OFFICER	SHEET NO. A11
				DRAWN BY: NONE DATE: 20/09/2020 CAD BY: 20/09/2020 Date Checked: 20/09/2020 Plot Date: BY: NER SCALE: 1" = 200mm
REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CITY 8000 C. M. RECTO AVENUE, LAPASAN, BORN CAGAYAN DE ORO CITY TEL. FAX: (088) 854-5000 / (088) 854-7328 / (088) 854-7329 WWW.USP.EDU.PH		FIRE SUPPRESSION LAYOUT		



REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES C. P. RECTO AVENUE, LAPANAN, 9006 CAGAYAN DE ORO CITY TEL. NOS. (08622) 71-60-65 / (086) 864-1138 / 864-1139 FAX NOS. (086) 864-5000 WWW.USC-TSP.EDU.PH	PREPARED BY: ENGR. ANGELO C. NER, JR. ARCHITECT	PROJECT: PROPOSED RENOVATION OF SENIOR HIGH CLASSROOMS & OFFICES	RECOMMENDING APPROVAL: PETER S. PANGSANO ARCHITECT (PRACTISING MEMBER)	RECOMMENDING APPROVAL: ENGR. ABEL MAUREAL ARCHITECT (REGISTERED MEMBER)	SHEET CONTENTS: A12 LAYOUT FIRE SUPPRESSION LAYOUT	DRAWN BY: GOME DATE: 26/06/2020 CAD BY: zanzanzanz DATE: 26/06/2020 SCALE: 1" = 2000mm	SHEET NO: A12
	UNIFORM NO. ENR 1000 DATE ISSUED:	OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	LOCATION: C. P. RECTO AVENUE, LAPANAN, CAGAYAN DE ORO CITY	APPROVED BY: ATY. ANSEL O. ALBINA CONCESSION OFFICER	APPROVED BY: ATY. ANSEL O. ALBINA CONCESSION OFFICER	APPROVED BY: ATY. ANSEL O. ALBINA CONCESSION OFFICER	APPROVED BY: ATY. ANSEL O. ALBINA CONCESSION OFFICER



LEGEND:

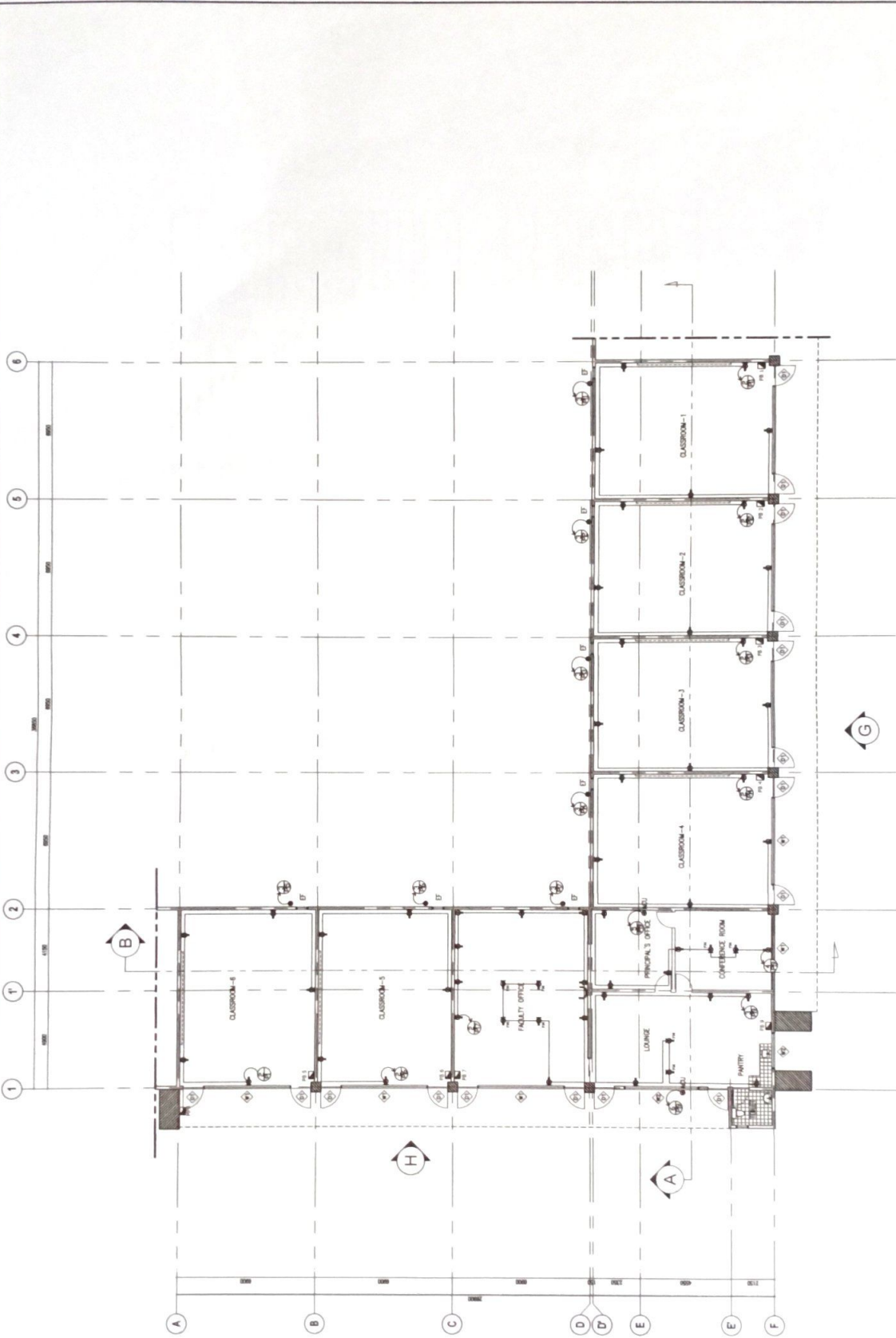
- FDAS** FIRE DETECTION & ALARM SYSTEM CONTROL PANEL
- (SD)** SMOKE DETECTOR
- F** MANUAL PULL STATION
- S/L** SOUNDER WITH STROBE LIGHT
- LED** SMOKE DETECTOR

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES C-11, BEYTES AVENUE, LAMPARAN, CORRAJAN DE ORDOZGOZ CITY, DAVAO DEL SUR, COTABATO, PHILIPPINES TEL: (81) 822-4200 (81) 822-4205 (81) 822-4206 (81) 822-4207 FAX: (81) 822-4208 WWW: USTSP.EDU.PH		PROJECT PROPOSED RENOVATION OF SENIOR HIGH CLASSROOMS & OFFICES LOCATION: C-11 BEYTES AVENUE, LAMPARAN, CORRAJAN DE ORDOZGOZ CITY, DAVAO DEL SUR, COTABATO, PHILIPPINES		PREPARED BY ENGR. ANGELITA MERRA P. PREP. NO.: DATE ISSUED:		RECOMMENDING APPROVAL PETER S. MARIANO DIRECTOR OF THE UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES		RECOMMENDING APPROVAL ENGR. ALBERT M. MARIAL CHIEF ENGINEER OF THE UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES		APPROVED BY ATTY. JOVELYN ALUMA UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES		SHEET CONTENTS A10 LAYOUT FIRE SUPPRESSION LAYOUT		DRAWN BY GCNE DATE 20240202 CHKD BY JZM/MSM CHKD DATE 20240202 SCALE 1:2000		SHEET NO. A13 TOTAL SHEETS -	
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PREPARED BY ENGR. ANICETO A. NERA, Jr. PRC NO. _____ TIN NO. _____	PROJECT PROPOSED GAD CLASSROOM LOCATION: C.M. RECTO AVENUE, LAPANAN, CAGAYAN DE ORO CITY OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	RECOMMENDING APPROVAL ENGR. BELL M. AUREAL U.S.T. OFFICE FOR FINANCE & ADMINISTRATION	APPROVED BY ATTY. DANIEL O. ALUNA U.S.T. OFFICE FOR FINANCE & ADMINISTRATION	SHEET CONTENTS WORKING OUTLET LAYOUT	DOWN BY: DONE DATE: 05/09/2020	SHEET NO. E2
					CAD BY: ANICETO A. NERA, Jr. JOB: 05-2020-0020 FILE: 05-11-2020 SCALE: 1:2000	

REPUBLIC OF THE PHILIPPINES
 UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES
 CAGAYAN DE ORO CITY 8000
 C.M. RECTO AVENUE, LAPANAN 9000 CAGAYAN DE ORO CITY
 TEL. NO. (088) 77-26-45 / (088) 85-7138 / 85-7139
 FAX NO. (088) 77-26-45 / (088) 85-7138 / 85-7139
 WEB SITE: www.usstp.edu.ph



PREPARED BY ENGR. ANNETTE C. NER J. PIN NO. _____ DATE ISSUED _____	PROJECT PROPOSED GAD CLASSROOM	RECOMMENDING APPROVAL PETER S. PANGSANO PIN NO. _____	RECOMMENDING APPROVAL ENGR. JERRY M. ALBERN PIN NO. _____	APPROVED BY ATTY. DONALD G. ALBINA PIN NO. _____	SHEET CONTENTS POWER OUTLET LAYOUT	DRAWN BY: GOME	SHEET NO. E2
						DATE: 08/08/2020	
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES C.M. Recto Avenue, Dapitan, Zamboanga del Sur, Davao Region, Zamboanga City TEL. Nos. (08827) 71-66-65 / (088) 85-1-178 / 85-1-729 FAX No. (088) 855-6366 WEB SITE: www.usp.edu.ph		OWNER UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES		PROJECT LOCATION C.M. Recto Avenue, Dapitan, Zamboanga del Sur, Davao Region, Zamboanga City		SCALE: 1:200mm	

FACULTY OFFICE - SCHEDULE OF LOADS

PANEL NO	CCT NO	LOAD DESCRIPTION	L.D.	C.D.	OTWPR LOADS	AMP RATING	SWITCHES			VOLTAGE RATING	OUTLET (VA) RATING	WIRE CIRCUIT	CIRCUIT LOADS CURRENT (AMP)	SIZE OF BREAKERS			WIRE (sq. mm)	SIZE OF HOMERUN CBT	GROUNDING
							S ₁	S ₂	S ₃					F	P	T			
PB 7	E1	Lighting Outlet	13						230	50	600	2.08	60	2	15	2 - 2.0 mm ² THHN Copper Wire	20 mm ² PVC	1 - 2.0 mm ² THHN Copper Wire	
	E2	Communications Outlet		14				230	180	1040	17.53	60	2	20	2 - 3.5 mm ² THHN Copper Wire	20 mm ² PVC	1 - 3.5 mm ² THHN Copper Wire		
	E3	ACU				1	3		230	2200	17.00	60	2	30	2 - 5.5 mm ² THHN Copper Wire	20 mm ² PVC	1 - 5.5 mm ² THHN Copper Wire		
TOTAL	E4	SPARE						230	1500	13.00	5.22	60	2	30					
	E5	SPARE						230	1500	13.00	5.22	60	2	30					
TOTAL			12	14	1	3	0	2	0	0	10840	47.05							

Calculation:

Per Service Conductor
 $S = \frac{I \times L \times 10^{-3}}{K} = \frac{47.05 \times 15 \times 1.17}{75} = 1.13 \text{ mm}^2$

Per Service Protection
 $I = \frac{S \times K}{L \times 10^{-3}} = \frac{1.13 \times 75}{15 \times 1.17} = 4.7 \text{ A}$

THREHOLD USE 16 AMPERE CIRCUIT BREAKER, 2 PWT, 230V
 USE 2 - 14 mm² THHN COPPER @ 32 mm² PVC Conduit

PRINCIPAL'S OFFICE, LOUNGE, CONFERENCE ROOM - SCHEDULE OF LOADS

PANEL NO	CCT NO	LOAD DESCRIPTION	L.D.	C.D.	OTWPR LOADS	AMP RATING	SWITCHES			VOLTAGE RATING	OUTLET (VA) RATING	WIRE CIRCUIT	CIRCUIT LOAD CURRENT (AMP)	SIZE OF BREAKERS			WIRE (sq. mm)	SIZE OF HOMERUN CBT	GROUNDING
							S ₁	S ₂	S ₃					F	P	T			
PB 8	E1	Lighting Outlet	8						230	50	400	1.39	60	2	15	2 - 2.0 mm ² THHN Copper Wire	20 mm ² PVC	1 - 2.0 mm ² THHN Copper Wire	
	E2	Lighting Outlet	6					230	180	2020	8.77	60	2	20	2 - 3.0 mm ² THHN Copper Wire	20 mm ² PVC	1 - 3.0 mm ² THHN Copper Wire		
	E3	Communications Outlet		7				230	180	2020	8.77	60	2	20	2 - 3.0 mm ² THHN Copper Wire	20 mm ² PVC	1 - 3.0 mm ² THHN Copper Wire		
TOTAL	E4	ACU 1			1	2		230	1500	13.00	12.00	60	2	30	2 - 5.5 mm ² THHN Copper Wire	20 mm ² PVC	1 - 5.5 mm ² THHN Copper Wire		
	E5	ACU 2			1	3		230	2200	17.00	60	2	30	2 - 5.5 mm ² THHN Copper Wire	20 mm ² PVC	1 - 5.5 mm ² THHN Copper Wire			
TOTAL			14	14	2	3	0	3	0	0	10840	34.18							

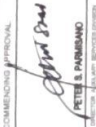


Calculation:

Per Service Conductor
 $S = \frac{I \times L \times 10^{-3}}{K} = \frac{34.18 \times 15 \times 1.17}{75} = 8.43 \text{ mm}^2$

Per Service Protection
 $I = \frac{S \times K}{L \times 10^{-3}} = \frac{8.43 \times 75}{15 \times 1.17} = 46.4 \text{ A}$

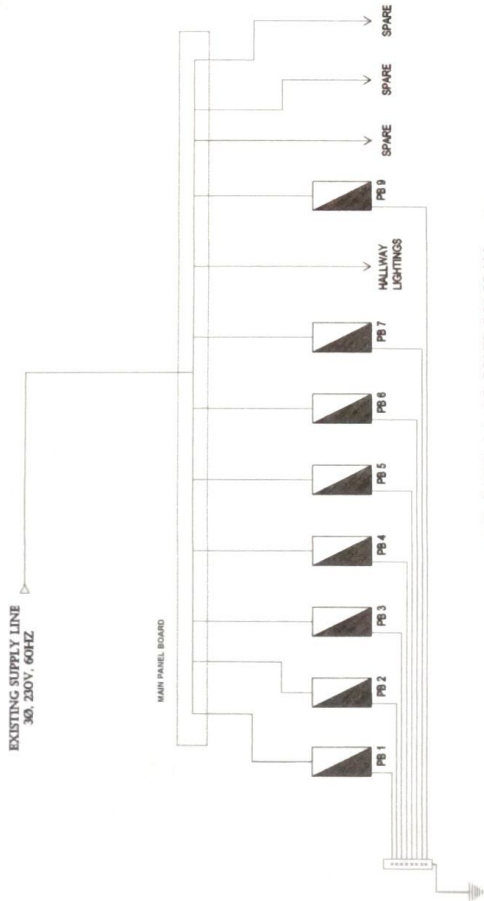
THREHOLD USE 100 AMPERE CIRCUIT BREAKER, 2 PWT, 230V
 USE 2 - 22 mm² THHN COPPER @ 32 mm² PVC Conduit

SCHEDULE OF LOADS
 SCALE: _____ NTS

<p>REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CITY 8000</p> <p>2-01 North Avenue, LARABAN 8000 CAGAYAN DE ORO CITY Tel. Nos. (08822) 77-80-85 / (0881) 858-738 / 858-739 MHS 8-01 8000 AGAT 8000</p>	<p>PREPARED BY ENGR. ANSELMO C. NERI, JR.</p> <p>PROJECT NO. 18-001</p> <p>DATE SUBMITTED 18-001</p>	<p>PROJECT PROPOSED GAD CLASSROOM</p> <p>LOCATION C.M. BRECTO AVENUE, LARABAN, CAGAYAN DE ORO CITY</p> <p>OWNER UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES</p>	<p>RECOMMENDING APPROVAL  PETER & PANIBANDO <small>REGISTERED ELECTRICAL ENGINEERS</small></p>	<p>RECOMMENDING APPROVAL  ENGR. FELIX MAUAL <small>REGISTERED ELECTRICAL ENGINEER</small></p>	<p>APPROVED BY  ATTY. DIONE O. ALINA <small>REGISTERED ATTORNEY</small></p>	<p>SHEET CONTENTS SCHEDULE OF LOADS</p>	<p>DRAWN BY: DONE DATE: 18/00/00 CHECKED BY: ANSELMO C. NERI, JR. DATE: 18/00/00 SCALE: 1:1000</p>	<p style="text-align: center; font-size: 2em; border: 1px solid black; border-radius: 50%; padding: 10px;">E4</p>
	<p style="text-align: center;">UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES</p>							

SPECIFICATIONS:

- A. CODE AND REGULATIONS:
 THE ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH ALL THE REQUIREMENTS OF THE LATEST ISSUE OF THE PHILIPPINE ELECTRICAL CODE, WITH RULES AND REGULATIONS AND ORDINANCES OF THE LOCAL ENFORCING AUTHORITIES AND REQUIREMENTS OF THE LOCAL COMPANY.
1. SCOPE OF WORK:
 - 1-1. THE WORK CONSIST OF FURNISHING OF ALL MATERIALS AND LABOR, TOOLS AND EQUIPMENT AND ALL NECESSARY.
 - 1-4. SERVICES TO COMPLETE THE ELECTRICAL WORK READY FOR OPERATION AS SHOWN IN THE DRAWING AND SPECIFIED AS FOLLOWS.
 - 1-8. SUPPLY AND INSTALLATION OF ELECTRICAL PANEL BOARDS, GUTTERS, PULLBOX AND ACCESSORIES BOX AS REQUIRED.
 - 1-C. SUPPLY OF WIRING DEVICE PORCELAIN RECEPTACLES, OUTLETS, SWITCHES, ETC. COMPLETE WITH SUITABLE COVER PLATES AS PER SPECIFICATIONS.
 - 1-D. SUPPLY AND INSTALLATION OF ALL OWNERS FURNISHED MATERIALS SUCH AS LIGHTING FIXTURES AND ELECTRICAL CONTROL.
 - 1-E. SUPPLY OF INSTALLATION FOR ALL BRANCH FEEDERS CIRCUITS FROM PANEL BOARD UP TO ALL OUTLETS, SWITCHES CONTROL OR OTHER LOADS; OTHER WIRING AS SHOWN IN PLAN.
 - 1-F. GROUNDING SYSTEM AS PER EEC REQUIREMENTS.



MAIN PANEL BOARD RISER DIAGRAM
 NTS
 SCALD

- AIR CONDITION UNIT	- LED DOWNLIGHT FIXTURE, SURFACE MOUNTED	- 3 Way Switch, 1 Gang
- CONVENIENCE OUTLET, DUPLEX, FLOOR MOUNTED	- 2000 LOWER LIGHTING, SURFACE MOUNT, LED TYPE	- 2 Gang Switch
- CONVENIENCE OUTLET, DUPLEX, WALL MOUNTED	- LED LIGHT FIXTURE, WALL MOUNTED TYPE	
- CIRCUIT BREAKER	- LIGHTING & POWER PANEL BOARD	
- CIRCUIT HOME RUN	- 1 Gang Switch	

ELECTRICAL LEGENDS
 NTS
 SCALD

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES C.M. Recto Avenue, Lapanas, 9505 CAGAYAN DE ORO CITY 9000 TEL. Nos. (08822) 72-60-55 / (088) 555-1128 / 880-1759 FAX No. (088) 555-1436 WEB SITE: www.ustp.edu.ph	PREPARED BY: ENGR. ANCELITO C. NERI, JR. REG. NO. _____ DATE ISSUED _____	PROJECT: PROPOSED GAD CLASSROOM LOCATION: C.M. RECTO AVENUE, LAPANAS, CAGAYAN DE ORO CITY OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	SHEET CONTENTS: UPS SINGLE LINE DIAGRAM ELECTRICAL LEGEND ELECTRICAL SPECIFICATIONS	DRAWN BY: DONE DATE: 05/09/2020 CHECKED BY: PARTICIPANTE DATE: 05/09/2020 PROJECT NO.: 000000000000 PLOT DATE: 05/14/2020 SCALE: 1:200mm
	SEAL	APPROVED BY: ENGR. ALEX MAUNELA REG. NO. 000000000000 DATE: 05/09/2020	RECOMMENDING APPROVAL: PETER S. MANZANO REG. NO. 000000000000 DATE: 05/09/2020	APPROVED BY: ATTY. DONAT C. ALINA REG. NO. 000000000000 DATE: 05/09/2020