A 1 1 EXTERIOR PERSPECTIVE

A 1 2 VICINITY MAP

A 1 3 LOCATION MAP

SCALE 1:3000 MTS

TABLE OF CONTENTS:

ARCHITECTURAL

STRUCTURAL

ELECTRICAL

PLUMBING

MECHANICAL

ELECTRONICS / AUX

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

LINE AND GRADE

GEODETIC

ARCHITECTURAL

CIVIL

STRUCTURAL

ELECTRICAL

MECHANICAL

ELECTRONICS

PLUMBING/SANITARY

FIRE PRO.

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REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT
[illegible]

AR. FERDINAND A. DUMPA
ARCHITECT

PRC NO.	0013329	PTR NO.	5241471 A
		DATE	01-21-2022
TIN	185-092-837	PLACE	CDO CITY

PROJECT: PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINAND A. DUMPA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. ERWIN B. BUCIO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

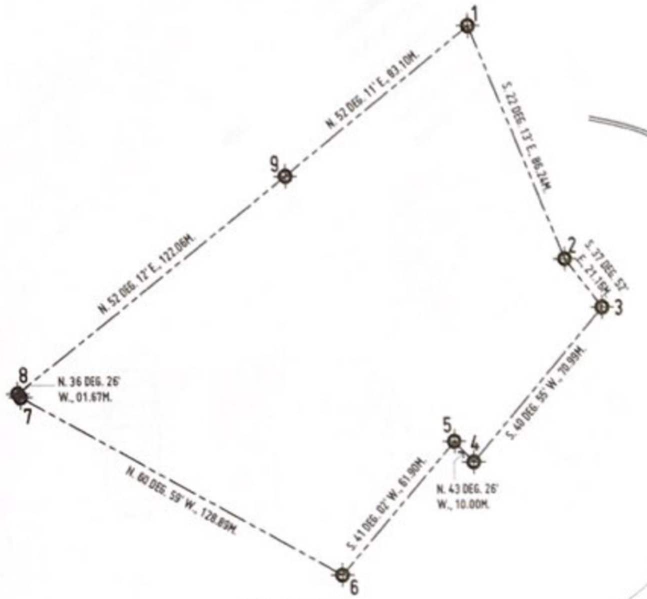
APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
EXTERIOR PERSPECTIVE
VICINITY MAP
LOCATION MAP

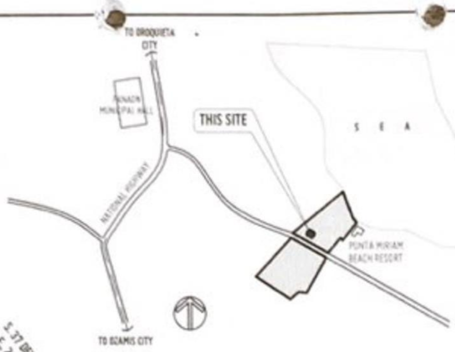
DRAWN BY:
DATE DRAWN:
FNT:

A1

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

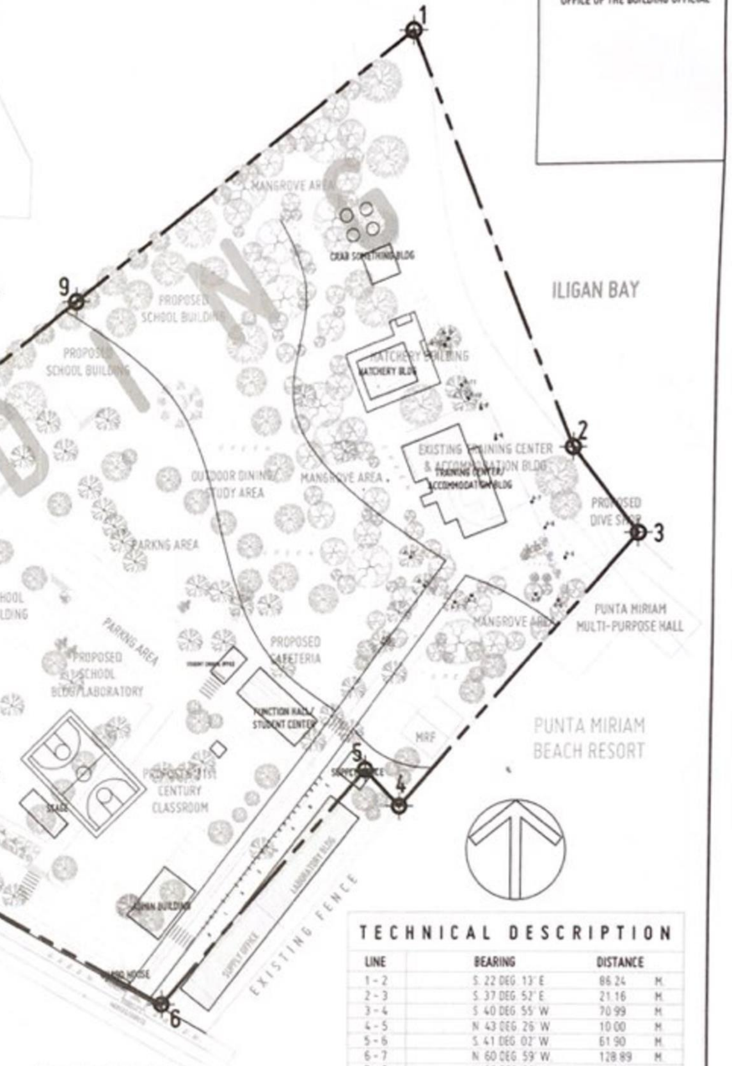


G 1 2 **LOT PLAN**
SCALE 1:1700 MTS



G 1 1 **VICINITY MAP**
NTS

G 1 3 **LOCATION MAP**
SCALE 1:3000 MTS



G 1 4 **SITE DEVELOPMENT PLAN PARTIAL BLOW-UP**
SCALE 1:900 MTS

BIDDING

TECHNICAL DESCRIPTION

LINE	BEARING	DISTANCE	
1 - 2	S. 22 DEG. 13' E	86.24	M.
2 - 3	S. 37 DEG. 52' E	21.16	M.
3 - 4	S 40 DEG. 55' W	70.99	M.
4 - 5	N 43 DEG. 26' W	10.00	M.
5 - 6	S. 41 DEG. 02' W	61.90	M.
6 - 7	N 60 DEG. 59' W	128.89	M.
7 - 8	N 36 DEG. 26' W	01.67	M.
8 - 9	N 52 DEG. 12' E	122.06	M.
9 - 1	N 52 DEG. 11' E	83.10	M.

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

GEODETIC ENGINEER	
PRC NO.	PTR NO.
	DATE
TIN	PLACE

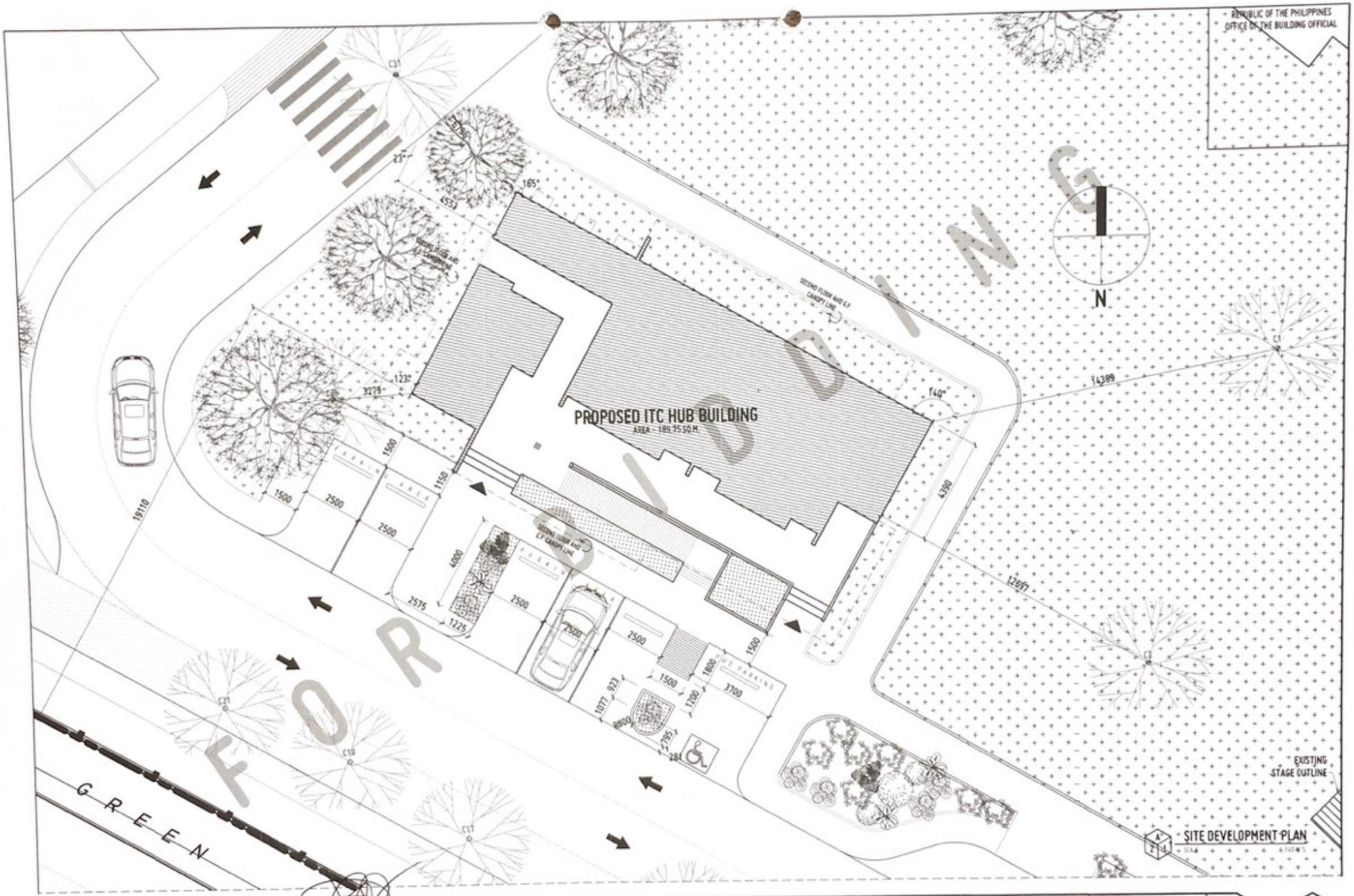
PROJECT	PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION	USTP PANAON, MISAMIS OCCIDENTAL
OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:
AR. FERDINAND A. DUMPA	ATTY. ERWIN B. BUCIO	DR. AMBROSIO B. CULTURA II
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
VICINITY MAP
LOT PLAN
LOCATION MAP
SITE DEVELOPMENT PLAN
PARTIAL BLOW-UP

DRAWN BY:
DATE DRAWN:
FNT:

G1



FOR BIDDING

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REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMPA
ARCHITECT

PRC NO.	0013320	PTR NO.	5241471 A
		DATE	01-27-2022
TIN	185-092-837	PLACE	CDO CITY

PROJECT: PROPOSED
INTEGRATED TECHNOLOGY AND COMMUNICATION HUB

LOCATION: USTP PANAON, MISAMIS OCCIDENTAL

OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

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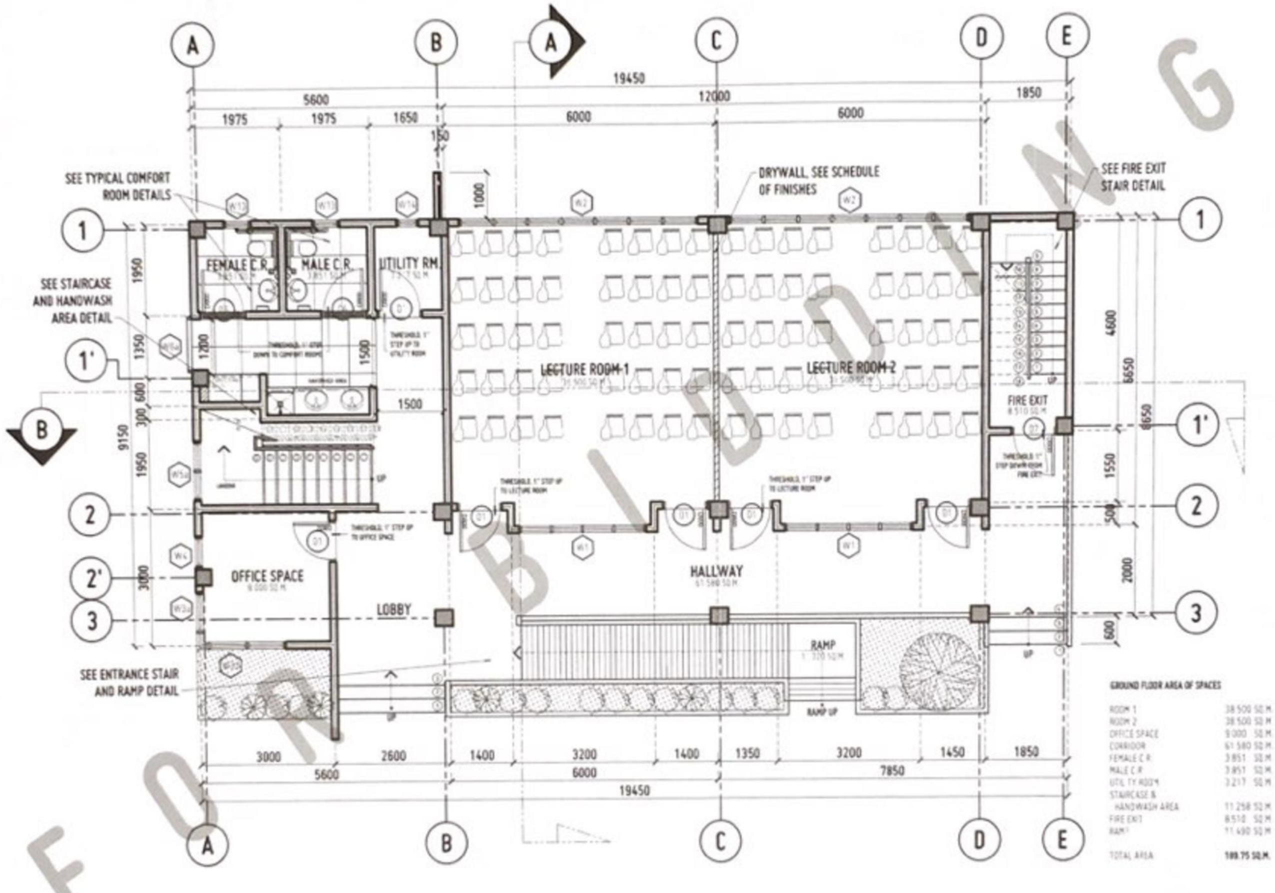
APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
SITE DEVELOPMENT PLAN

DRAWN BY:
DATE DRAWN:
PNT:

A2

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



GROUND FLOOR AREA OF SPACES

ROOM 1	38.500 SQ.M.
ROOM 2	38.500 SQ.M.
OFFICE SPACE	9.000 SQ.M.
CORRIDOR	61.580 SQ.M.
FEMALE C.R.	3.851 SQ.M.
MALE C.R.	3.851 SQ.M.
UTILITY ROOM	3.217 SQ.M.
STAIRCASE & HANDWASH AREA	11.258 SQ.M.
FIRE EXIT	8.510 SQ.M.
RAMP	11.490 SQ.M.
TOTAL AREA	**189.75 SQ.M.**

GROUND FLOOR PLAN
SCALE 1:50 MTS

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REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

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ARCHITECT			
PRC NO.	0013320	PTR NO.	5241471 A
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TIN	185-092-807	PLACE	CDO CITY

PROJECT	PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION	USTP PANAON, MISAMIS OCCIDENTAL
OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL	RECOMMENDING APPROVAL	APPROVED BY
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DIRECTOR, INFRASTRUCTURE PLANNING AND DEVELOPMENT OFFICE	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
GROUND FLOOR PLAN

DRAWN BY:
DATE DRAWN:
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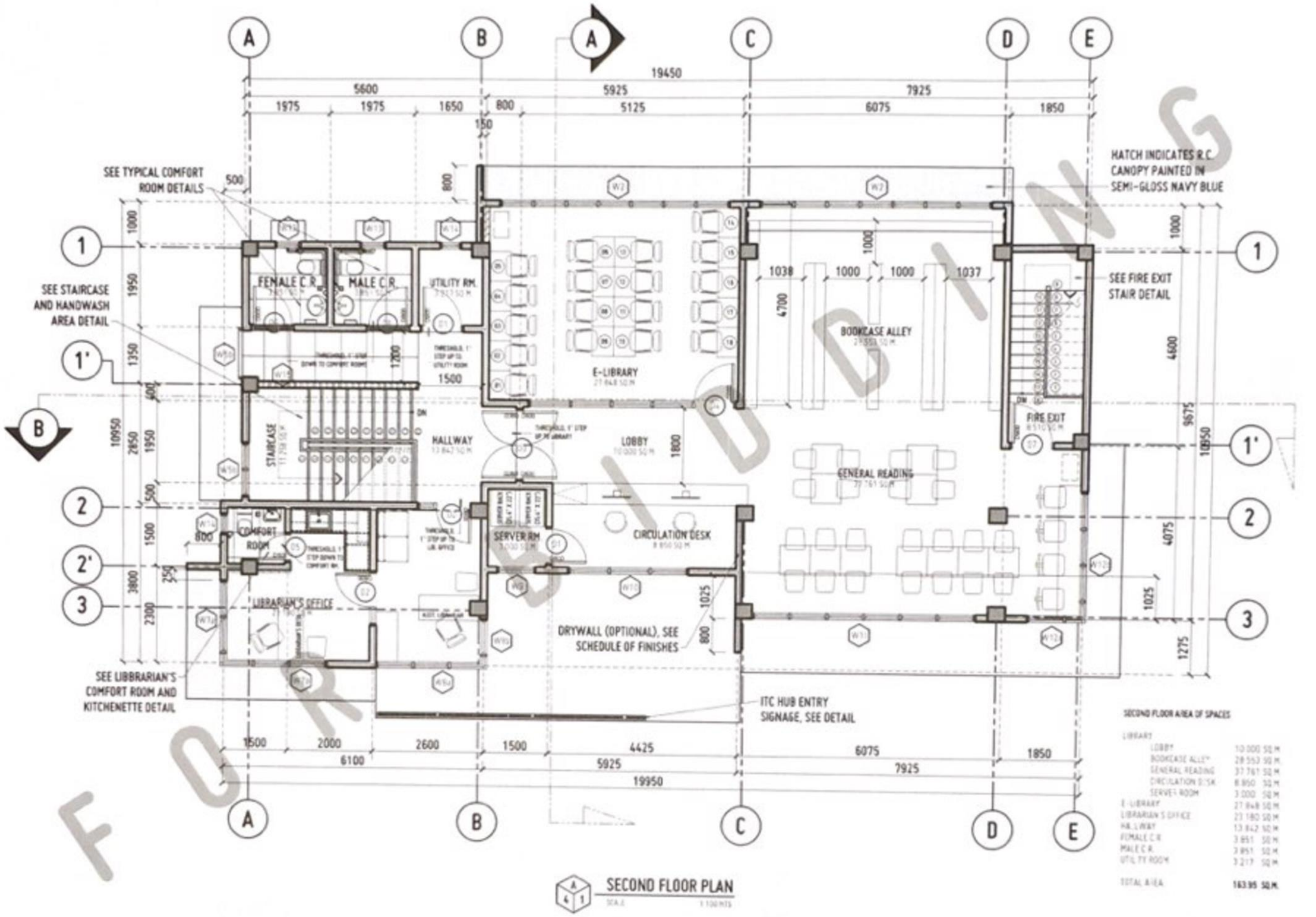
A3

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



SECOND FLOOR PLAN

SCALE 1:100 MTS

SECOND FLOOR AREA OF SPACES

LIBRARY	
LOBBY	10.000 SQ.M.
BOOKCASE ALLEY	28.553 SQ.M.
GENERAL READING	37.761 SQ.M.
CIRCULATION DESK	8.850 SQ.M.
SERVER ROOM	3.000 SQ.M.
E-LIBRARY	27.848 SQ.M.
LIBRARIAN'S OFFICE	23.180 SQ.M.
HALLWAY	13.842 SQ.M.
FEMALE C.R.	3.851 SQ.M.
MALE C.R.	3.851 SQ.M.
UTILITY ROOM	3.217 SQ.M.
TOTAL AREA	**163.95 SQ.M.**

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CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMPA
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PRC NO.	0013326	PTR NO.	5241471 A
		DATE	01-27-2022
TIN	185-002-837	PLACE	CDO CITY

PROJECT: PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

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APPROVED BY:
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PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
SECOND FLOOR PLAN

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DATE DRAWN:
PNT:

A4

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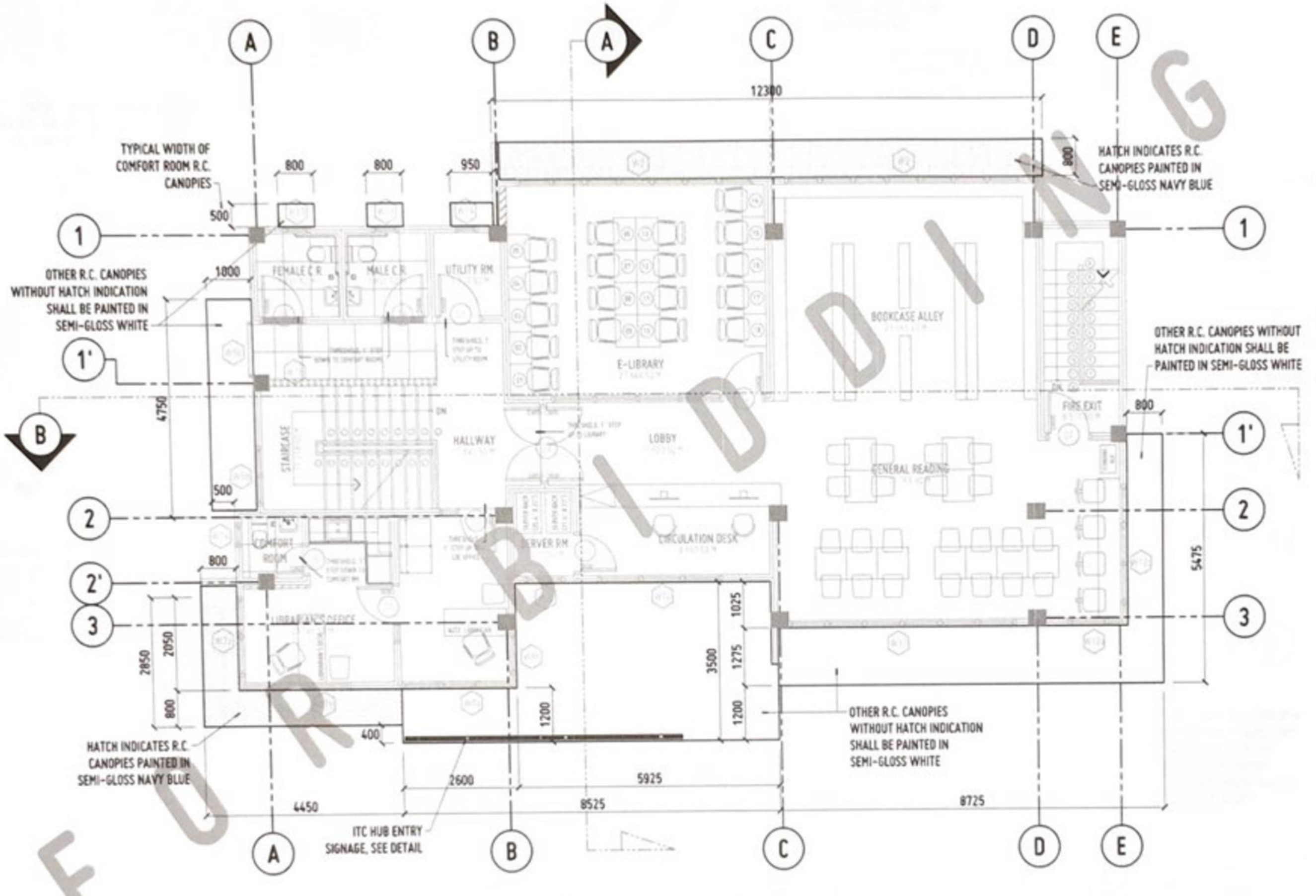
OFFICE OF THE BUILDING OFFICIAL



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GROUND FLOOR CANOPY PLAN

SCALE 1 : 100 MTS

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CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMPA
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PRC NO.	0013329	PTR NO.	5241471 A
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OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

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PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
GROUND FLOOR CANOPY PLAN

DRAWN BY:
DATE DRAWN:
FNT:

A5

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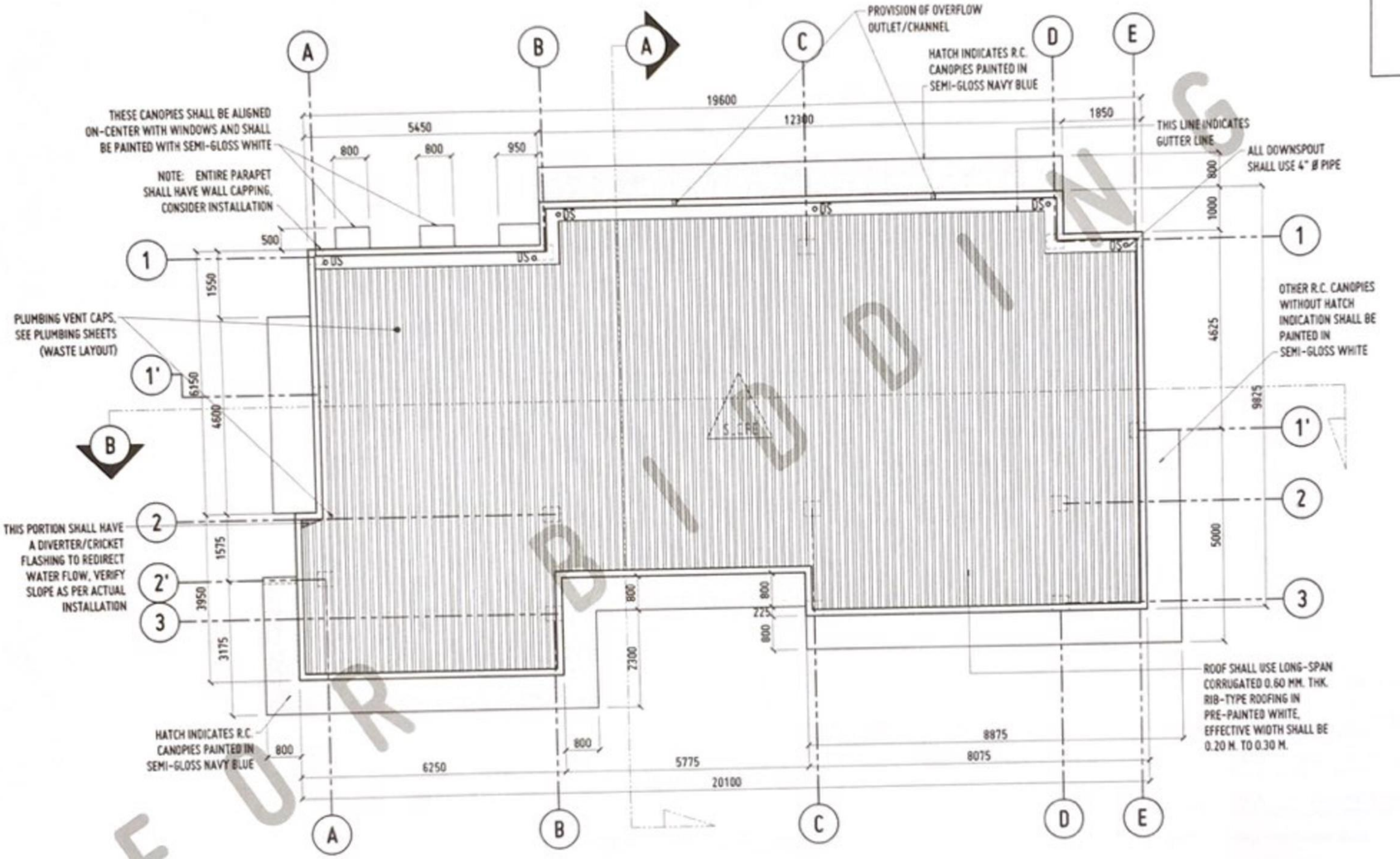

FOR BIDDING

A 6 1 ROOF PLAN
SCALE 1:100 MTS

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CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. BUMPA
ARCHITECT
PRC NO. 0013330
PTR NO. 5241471 A
DATE 01-27-2022
TIN 105-092-837
PLACE CDO CITY

PROJECT: PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
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DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
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VP FOR ADMINISTRATION & LEGAL AFFAIRS

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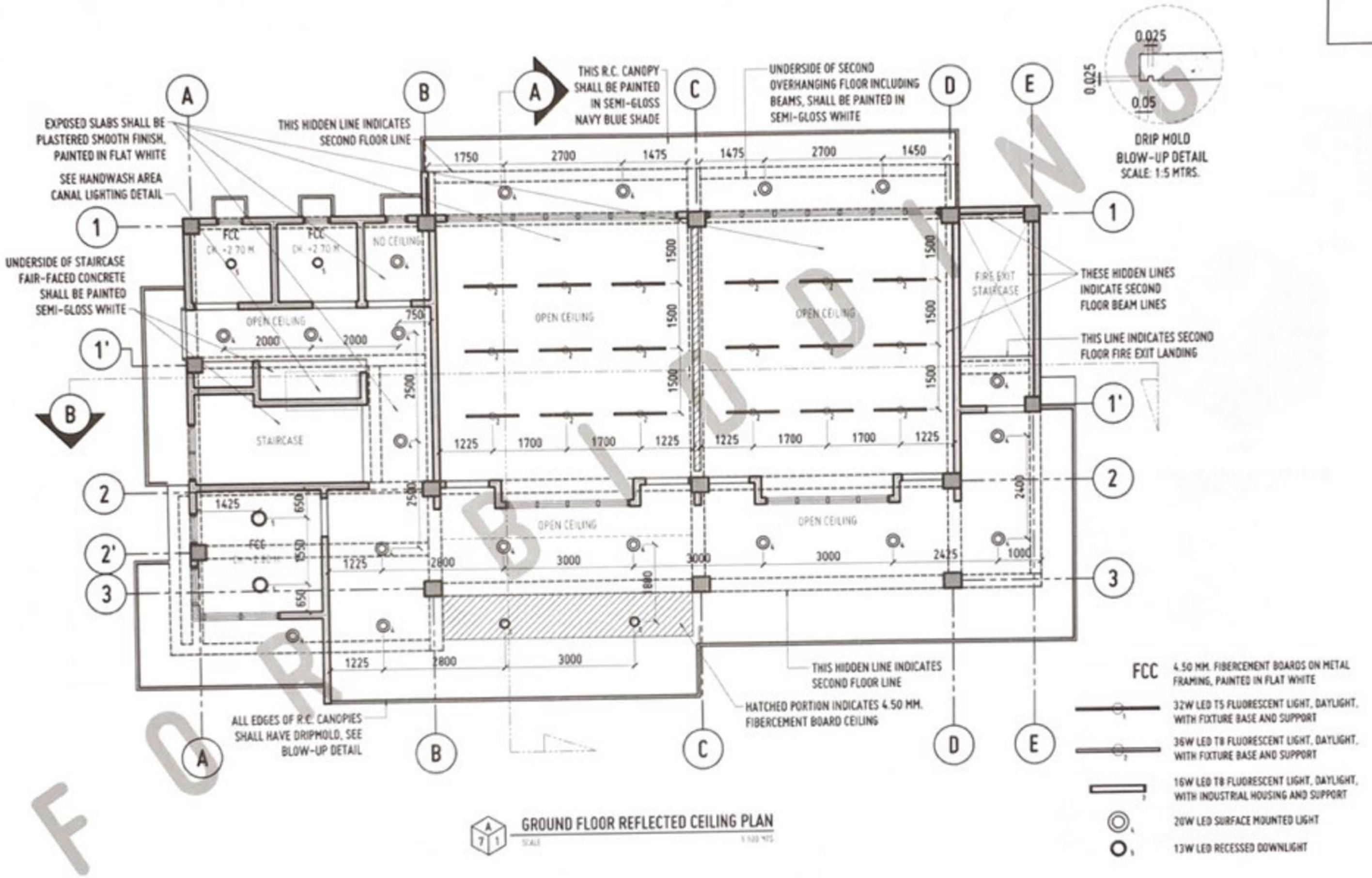
SHEET CONTENTS:
ROOF PLAN

DRAWN BY:
DATE DRAWN:
FNT:

A6

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



FOR BUILDING

A 7 GROUND FLOOR REFLECTED CEILING PLAN
SCALE 1:100 MTS

USTP

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMPA
ARCHITECT

PRC NO	0013320	PTR NO	5241471 A
		DATE	01-27-2022
TIN	185-092-837	PLACE	CDO CITY

PROJECT: PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
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VP FOR ADMINISTRATION & LEGAL AFFAIRS

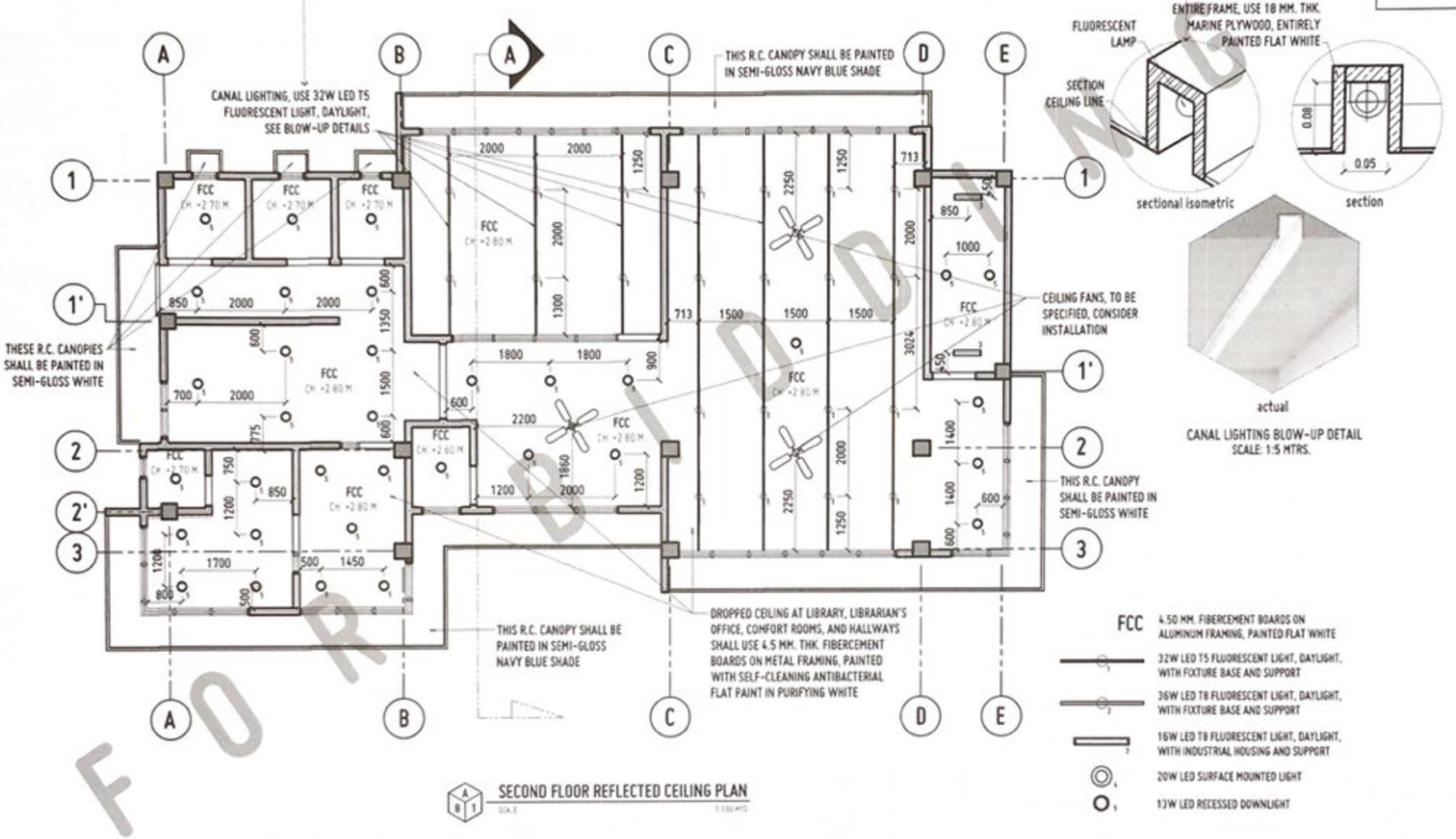
APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
GROUND FLOOR REFLECTED CEILING PLAN

DRAWN BY:
DATE DRAWN:
PNT:

A7

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



CANAL LIGHTING BLOW-UP DETAIL
SCALE: 1:5 MTRS.

FCC	4.50 MM. FIBERCEMENT BOARDS ON ALUMINUM FRAMING, PAINTED FLAT WHITE
━	32W LED T5 FLUORESCENT LIGHT, DAYLIGHT, WITH FIXTURE BASE AND SUPPORT
━	36W LED T8 FLUORESCENT LIGHT, DAYLIGHT, WITH FIXTURE BASE AND SUPPORT
▭	16W LED T8 FLUORESCENT LIGHT, DAYLIGHT, WITH INDUSTRIAL HOUSING AND SUPPORT
◎	20W LED SURFACE MOUNTED LIGHT
○	13W LED RECESSED DOWNLIGHT

SECOND FLOOR REFLECTED CEILING PLAN
SCALE 1:100 MTS.

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REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMPA
ARCHITECT

PRC NO.	0013329	PTR NO.	5241471 A
		DATE	01-27-2022
TIN	185-092-037	PLACE	CDO CITY

PROJECT	PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION	USTP PANAON, MISAMIS OCCIDENTAL
OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
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RECOMMENDING APPROVAL:
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VP FOR ADMINISTRATION & LEGAL AFFAIRS

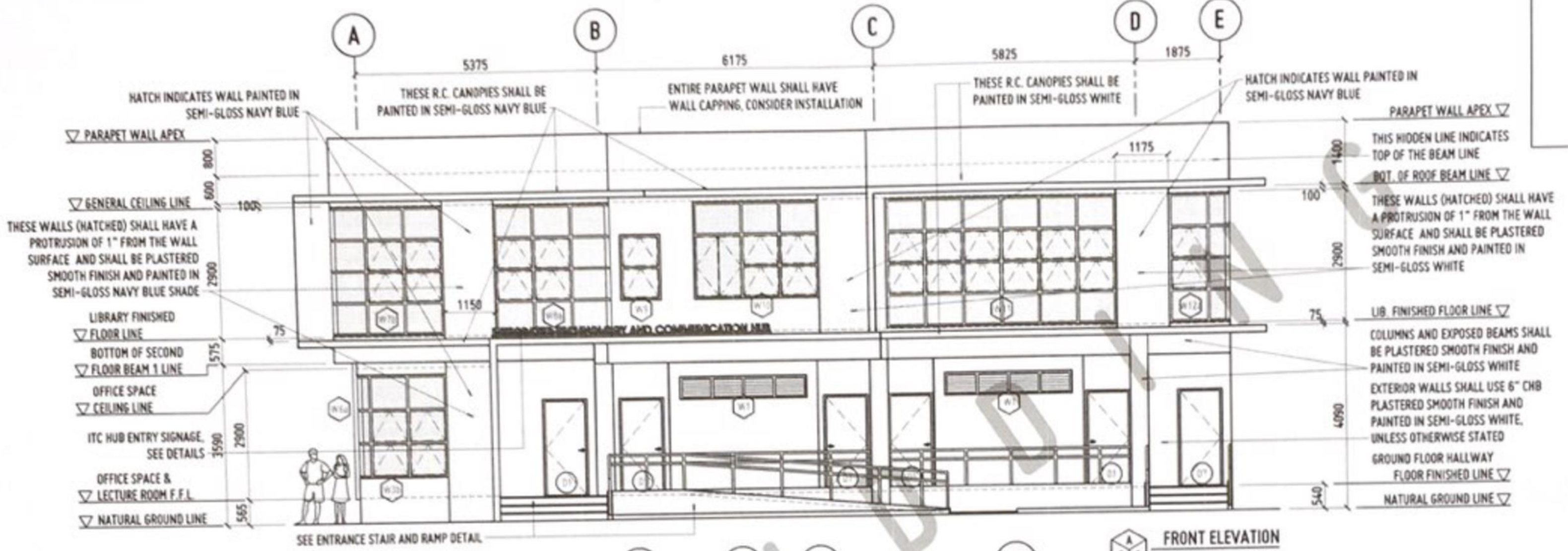
APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
SECOND FLOOR REFLECTED CEILING PLAN

DRAWN BY:
DATE DRAWN:
PNT:

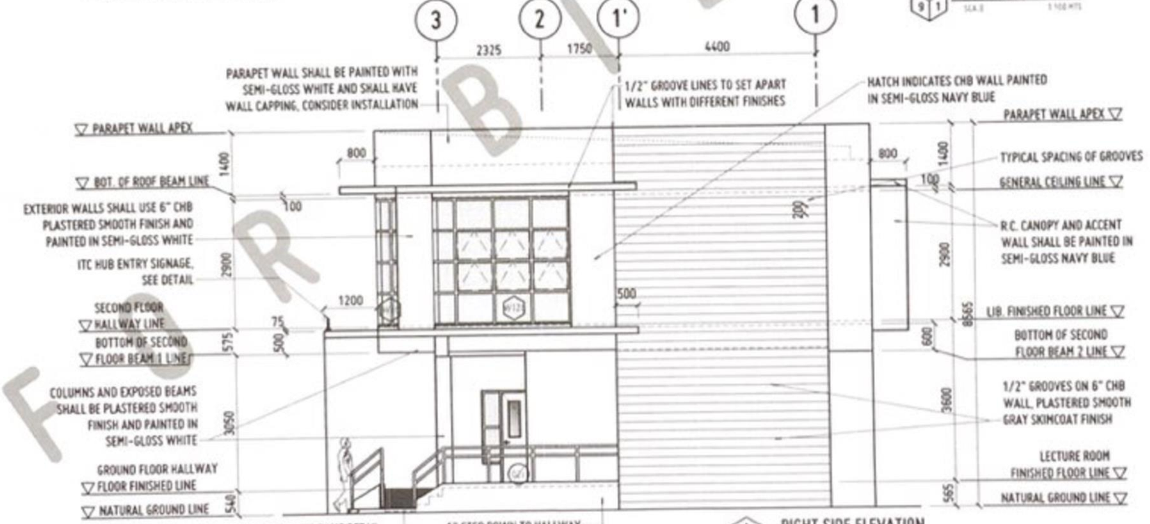
A8

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



A 9 1 **FRONT ELEVATION**

SCALE 1:100 MTS



A 9 2 **RIGHT SIDE ELEVATION**

SCALE 1:100 MTS

FOR BIDDING

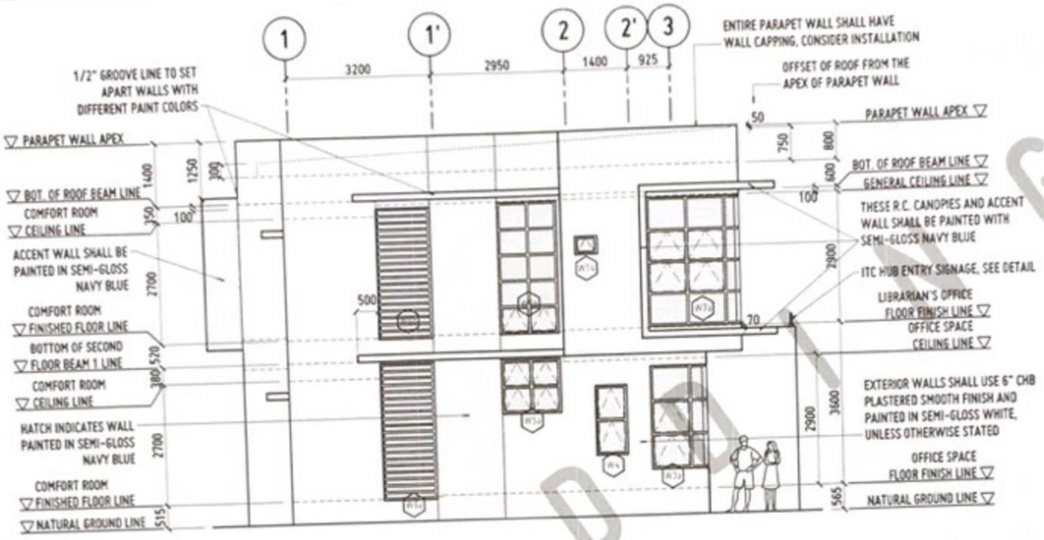
REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CAMPUS INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT	AR. FERDINAND A. DUMPA ARCHITECT	PROJECT	PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB		
	PRC NO. 0019329	PTR NO. 5261471 A			
		DATE 01-27-2022	LOCATION	USTP PANAON, MISAMIS OCCIDENTAL	
	TIN 195-092-837	PLACE CDO CITY	OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES	

RECOMMENDING APPROVAL	RECOMMENDING APPROVAL	APPROVED BY	SHEET CONTENTS	DRAWN BY
AR. FERDINAND A. DUMPA	ATTY. ERWIN B. BUCIO	DR. AMBROSIO B. CULTURA II	FRONT ELEVATION RIGHT SIDE ELEVATION	DATE DRAWN
DIR. FOR INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM		FMT.

USTP

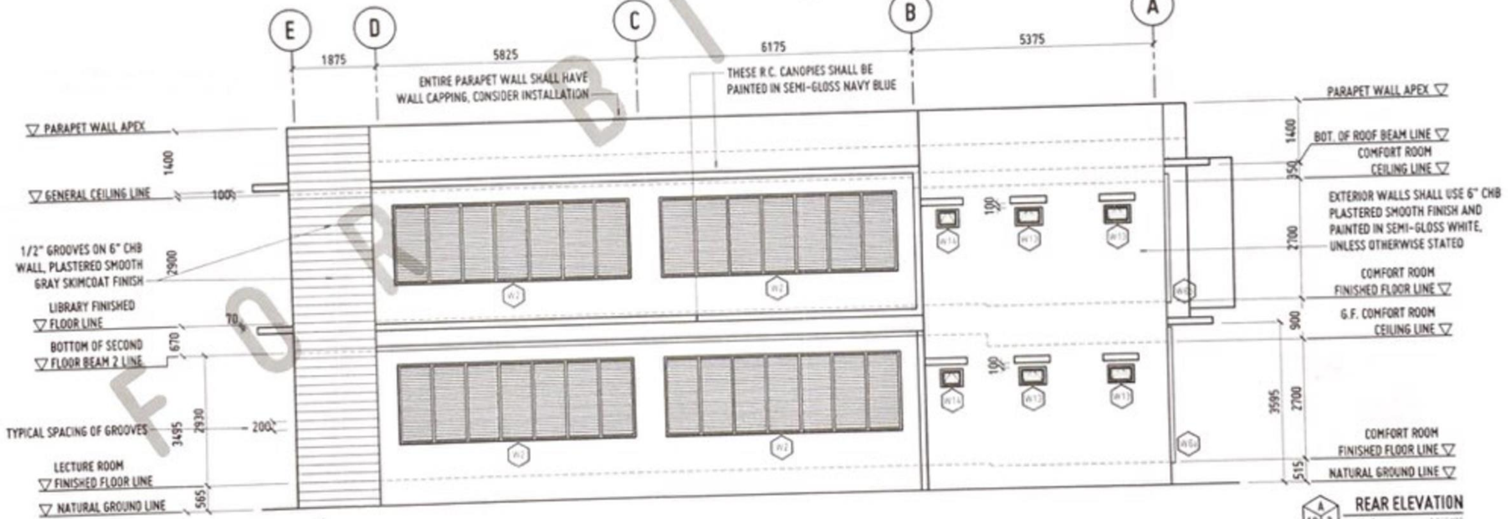
A9

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



LEFT SIDE ELEVATION

SCALE 1:100 MTS



REAR ELEVATION

SCALE 1:100 MTS

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

USTP

AR. FERDINAND A. DUMPA
ARCHITECT
PRC NO. 0010320 | PTR NO. 5241471 A
DATE 01-27-2022
TIN 183-082-837 | PLACE CDO CITY

PROJECT: PROPOSED
INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

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PRESIDENT, USTP SYSTEM

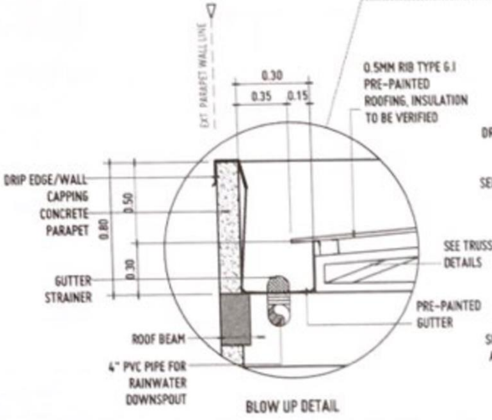
SHEET CONTENTS:
LEFT SIDE ELEVATION
REAR ELEVATION

DRAWN BY:
DATE DRAWN:
ENT:

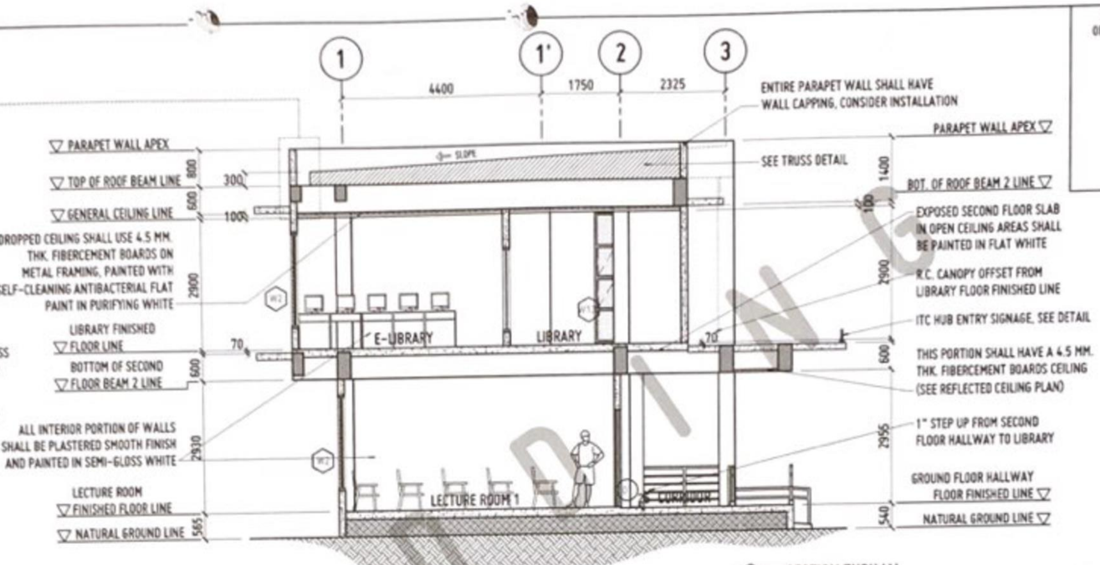
A10

FOR BIDDING

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



BLOW UP DETAIL



SECTION THRU 'A'
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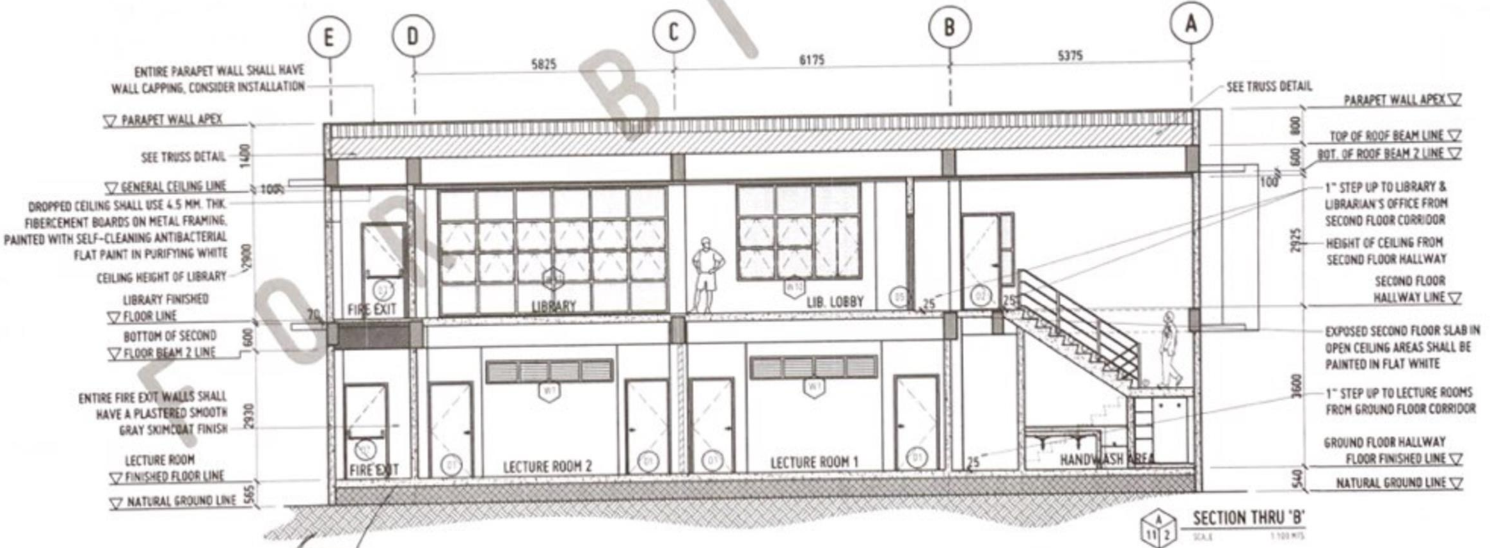

SECTION THRU 'B'
SCALE 1:100 MTS

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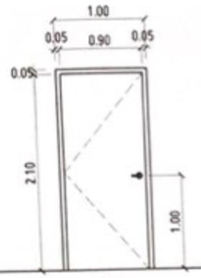
SHEET CONTENTS:
SECTION THRU A
SECTION THRU B

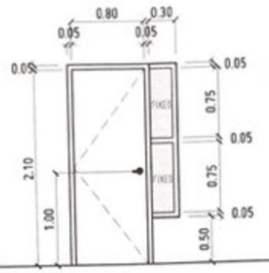
DRAWN BY:
DATE DRAWN:
ENT:

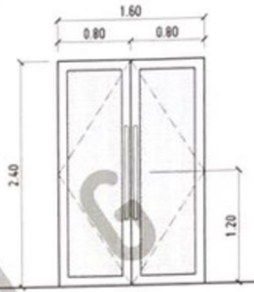
A11

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

F O R B I D D I N G

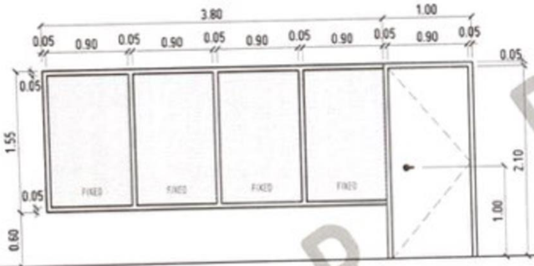


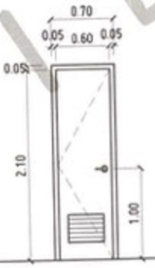


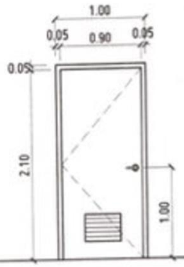


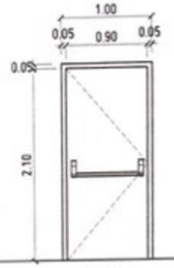
FINISHED FLOOR LINE

DESIGNATION	D1	D2	D3
TYPE	SINGLE LEAF SOLID CORE WOODEN DOORS	SINGLE LEAF SOLID CORE WOODEN DOOR WITH FIXED WINDOW	DOUBLE LEAF ALUMINUM GLASS DOOR
DESCRIPTION	SOLID CORE WOODEN DOORS: PAINTED LIGHT BROWN STAIN. USE CLOSE GRAINED HARD WOOD BUTT HINGES: 2-SETS ON UPPER 1/3 PORTION OF DOOR STILE, 1-SET ON BOTTOM HANDLES: USE CYLINDRICAL LEVER-TYPE HANDLES IN HAIRLINE FINISH	SOLID CORE WOODEN DOOR: PAINTED LIGHT BROWN STAIN, WITH COMPLETE ACCESSORIES AND HARDWARE HANDLE: USE CYLINDRICAL LEVER-TYPE HANDLE IN HAIRLINE FINISH FIXED WINDOW: USE 1/4" THK. CLEAR GLASS ON ALUMINUM FRAMES POWDER COATED-WHITE, INCLUDING ALL NECESSARY HARDWARE	DOUBLE LEAF DOOR: ALUMINUM GLASS DOOR WITH COMPLETE ACCESSORIES AND HARDWARE HANDLE: USE 1-1/2" DIAMETER STAINLESS STEEL H-TYPE DOOR HANDLES WITH COMPLETE HARDWARE -
LOCATION	LECTURE ROOMS, OFFICE SPACE, SERVER ROOM, AND UTILITY ROOMS	LIBRARIAN'S OFFICE	LIBRARY
SET	8 SETS	2 SETS	1 SET









FINISHED FLOOR LINE

DESIGNATION	D4	D5	D6	D7
TYPE	SINGLE LEAF SOLID CORE WOODEN DOORS	PVC DOOR W/ LOUVRES	PVC DOOR W/ LOUVRES	SINGLE LEAF PANIC DOOR
DESCRIPTION	SOLID CORE WOODEN DOOR: PAINTED LIGHT BROWN STAIN. WITH COMPLETE ACCESSORIES AND HARDWARES HANDLE: USE CYLINDRICAL LEVER-TYPE HANDLE IN HAIRLINE FINISH FIXED WINDOW: USE 1/4" THK. CLEAR GLASS ON ALUMINUM FRAMES POWDER COATED-WHITE, INCLUDING ALL NECESSARY HARDWARE FINISH	PVC SWING DOOR WITH LOUVERS - ALL WHITE BUTT HINGES: 2-SETS ON UPPER 1/3 PORTION OF DOOR STILE AND 1-SET ON BOTTOM HANDLE: USE CYLINDRICAL, LEVER-TYPE HANDLE IN HAIRLINE FINISH	PVC SWING DOOR WITH LOUVERS - ALL WHITE BUTT HINGES: 2-SETS ON UPPER 1/3 PORTION OF DOOR STILE AND 1-SET ON BOTTOM HANDLE: USE CYLINDRICAL, LEVER-TYPE HANDLE IN HAIRLINE FINISH	SINGLE LEAF STEEL PANIC DOOR 1.0 MM THICK G.I. SKIN WITH A THICKNESS OF 44 MM., 2 HOUR FIRE RATING, INSULATED WITH HONEYCOMB CORE, INCLUDING ALL NECESSARY FIXINGS, ALL IN ACCORDANCE WITH THE ARCHITECT'S SPECIFICATIONS
LOCATION	E-LIBRARY	LIBRARIAN'S OFFICE - COMFORT ROOM	PUBLIC COMFORT ROOMS	FIRE EXITS
SET	1 SET	1 SET	4 SETS	2 SETS

A 12 1

SCHEDULE OF DOORS

SCALE 1:50 MTS

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMPA			
ARCHITECT			
PRC NO.	0013729	PTR NO.	5241471 A
		DATE	01-27-2022
TIN	185-092-837	PLACE	CDO CITY

PROJECT	PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION	USTP PANAON, MISAMIS OCCIDENTAL
OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:
AR. FERDINAND A. DUMPA	ATTY. ERWIN B. BUCIO	DR. AMBROSIO B. CULTURA II
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
SCHEDULE OF DOORS

DRAWN BY:
DATE DRAWN:
FNT:

A12

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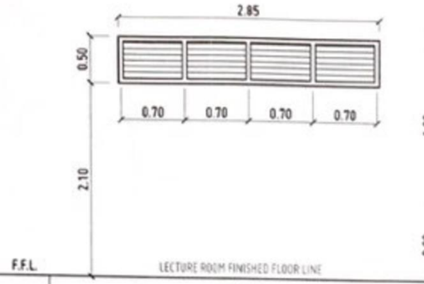
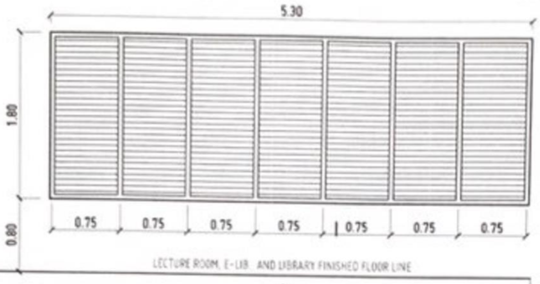
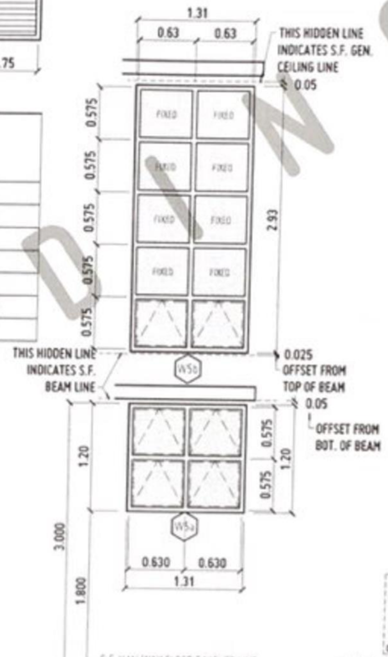
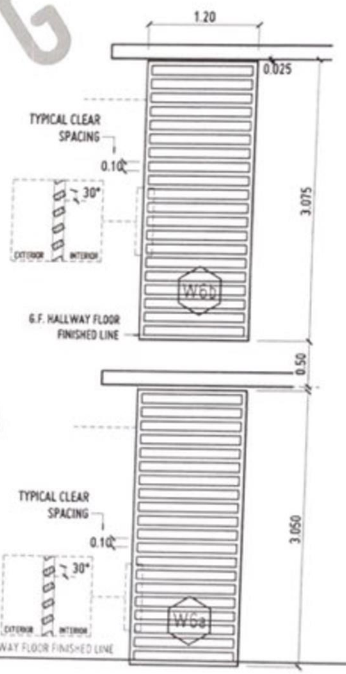
OFFICE OF THE BUILDING OFFICIAL



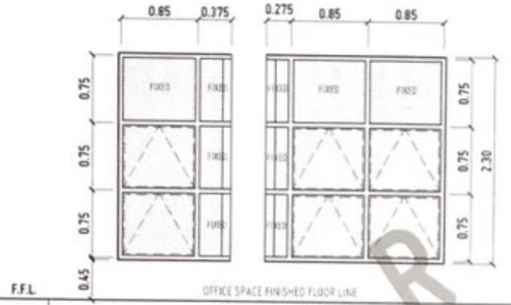


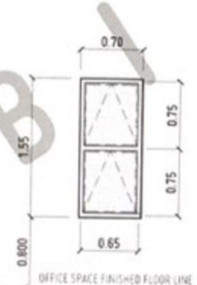
DESIGNATION	W1	W2
TYPE	**JALOUPLUS WINDOW WITH CLEAR ANODIZED FRAMES**	**JALOUPLUS WINDOW WITH CLEAR ANODIZED FRAMES**
DESCRIPTION	6 MM. THICK GLASS, MACHINE POLISHED, ULTRA-CLEAR,	6 MM. THICK GLASS, MACHINE POLISHED, ULTRA-CLEAR,
	JALOUPLUS FRAME: BLACK	JALOUPLUS FRAME: BLACK
	MAIN FRAME: 2 X 2 ALUMINUM, CLEAR (WHITE) FINISH	MAIN FRAME: 2 X 2 ALUMINUM, CLEAR (WHITE) FINISH
	STORM-PROOF WINDOW ASSEMBLY	STORM-PROOF WINDOW ASSEMBLY
LOCATION	**GF - LECTURE ROOMS**	**GF - LECTURE ROOMS, SF - E-LIBRARY, AND SF - LIBRARY (NEAR BOOKCASE ALLEY)**
SET	**2 SETS**	**4 SETS**





G.F. HALLWAY FLOOR FINISHED LINE





DESIGNATION	W3a W3b	W4	W5a AND W5b	W6a AND W6b
TYPE	**COMBINED FIXED AND AWNING WINDOW**	**AWNING WINDOW**	**COMBINED FIXED AND AWNING WINDOW**	**SUN BUFFER**
DESCRIPTION	GLAZING IN 1/4" THK. CLEAR GLASS IN ALUMINUM FRAME POWDER COATED - WHITE,	GLAZING IN 1/4" THK. CLEAR GLASS IN ALUMINUM FRAME	GLAZING IN 1/4" THK. CLEAR GLASS IN ALUMINUM FRAME	2" X 4" ALUMINUM RECTANGULAR TUBING IN WHITE
	AWNING WINDOWS OPERABLE UP TO 90 DEG., INCLUDING WEATHERSTRIPPING,	POWDER COATED - WHITE, AWNING WINDOWS OPERABLE	POWDER COATED - WHITE, AWNING WINDOWS OPERABLE	SEMI-GLOSS FINISH, ANGLED 30 DEGREES
	GLAZING BEADS, GLAZING GASKETS, AND ALL NECESSARY HARDWARE FINISH	UP TO 90 DEG., INCLUDING WEATHERSTRIPPING, GLAZING BEADS,	UP TO 60 DEG., INCLUDING WEATHERSTRIPPING, GLAZING BEADS,	-
	-	GLAZING GASKETS, AND ALL NECESSARY HARDWARE FINISH	GLAZING GASKETS, AND ALL NECESSARY HARDWARE FINISH	-
LOCATION	**GF - OFFICE SPACE**	**GF - OFFICE SPACE**	**MAIN STAIRS**	**HALLWAY (NEAR PUBLIC COMFORT ROOMS; SEE FLOOR PLAN)**
SET	**1 SET**	**1 SET**	**1 SETS**	**1 SET**

SCHEDULE OF WINDOWS - 1 OF 3

A 13 1
SCALE
1:5; NTS

FOR BIDDING

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMPA
ARCHITECT
PRC NO. 0013329 | PTR NO. 5241471 A
DATE 01-27-2022
TIN 185-002-837 | PLACE CDO CITY

PROJECT: PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINAND A. DUMPA
DIRECTOR, INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

RECOMMENDING APPROVAL:
ATTY. ERWIN B. BUCIO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

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

SHEET CONTENTS:
SCHEDULE OF WINDOWS - 1 OF 3

DRAWN BY:
DATE DRAWN:
FNT:

A13

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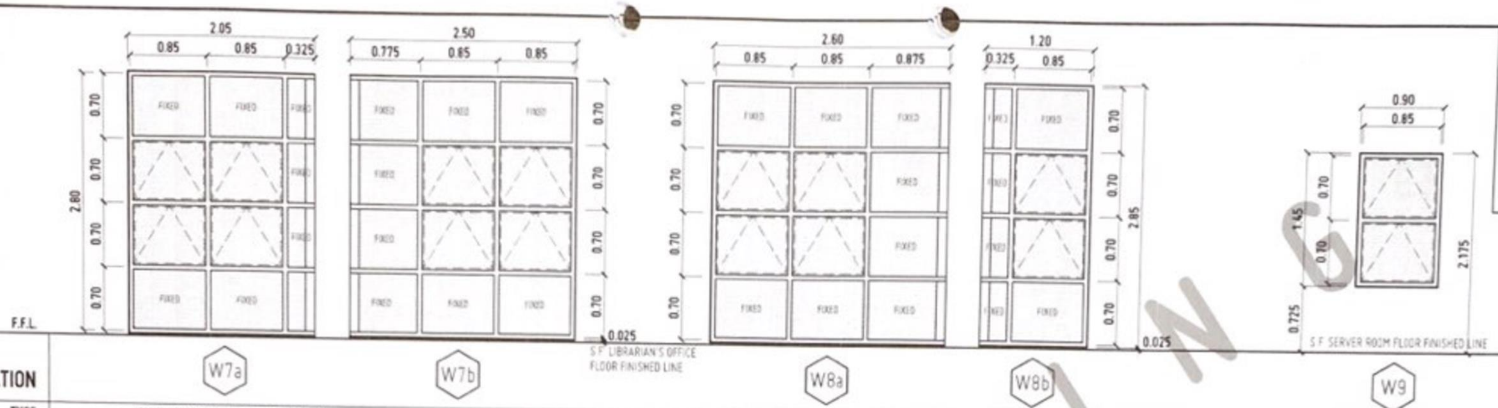
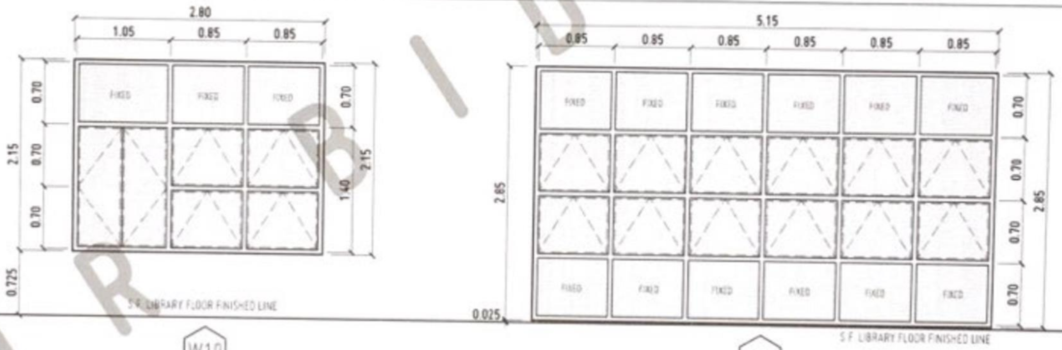


DESIGNATION	W7a W7b	W8a W8b	W9
TYPE	COMBINED FIXED AND AWNING WINDOW	COMBINED FIXED AND AWNING WINDOW	AWNING WINDOW
DESCRIPTION	GLAZING IN 1/4" THK. CLEAR GLASS IN ALUMINUM FRAME POWDER COATED - WHITE, AWNING WINDOWS OPERABLE UP TO 90 DEG., INCLUDING WEATHERSTRIPPING, GLAZING BEADS, GLAZING GASKETS, AND ALL NECESSARY HARDWARE FINISH	GLAZING IN 1/4" THK. CLEAR GLASS IN ALUMINUM FRAME POWDER COATED - WHITE, AWNING WINDOWS OPERABLE UP TO 90 DEG., INCLUDING WEATHERSTRIPPING, GLAZING BEADS, GLAZING GASKETS, AND ALL NECESSARY HARDWARE FINISH	GLAZING IN 1/4" THK. CLEAR GLASS IN ALUMINUM FRAME POWDER COATED - WHITE, AWNING WINDOWS OPERABLE UP TO 90 DEG., INCLUDING WEATHERSTRIPPING, GLAZING BEADS, GLAZING GASKETS, AND ALL NECESSARY HARDWARE FINISH
LOCATION	SF - LIBRARIAN'S OFFICE	SF - LIBRARIAN'S OFFICE	SF - SERVER ROOM
SET	1 SET	1 SET	1 SET



DESIGNATION	W10	W11
TYPE	COMBINED FIXED AND AWNING WINDOW	COMBINED FIXED AND AWNING WINDOW
DESCRIPTION	GLAZING IN 1/4" THK. CLEAR GLASS IN ALUMINUM FRAME POWDER COATED - WHITE, AWNING WINDOWS OPERABLE UP TO 90 DEG., INCLUDING WEATHERSTRIPPING, GLAZING BEADS, GLAZING GASKETS, AND ALL NECESSARY HARDWARE FINISH -	GLAZING IN 1/4" THK. CLEAR GLASS IN ALUMINUM FRAME POWDER COATED - WHITE, AWNING WINDOWS OPERABLE UP TO 90 DEG., INCLUDING WEATHERSTRIPPING, GLAZING BEADS, GLAZING GASKETS, AND ALL NECESSARY HARDWARE FINISH -
LOCATION	SF - LIBRARY (NEAR CONTROL COUNTER)	SF - LIBRARY
SET	1 SET	1 SET

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SCHEDULE OF WINDOWS - 2 OF 3

SCALE 1:50 MTS

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REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMPA			
ARCHITECT			
PRC NO.	0013329	PTR NO.	5241471 A
		DATE	01-27-2022
TIN	105-092-837	PLACE	CDO CITY

PROJECT: PROPOSED
INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINAND A. DUMPA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. ERWIN D. BUCIO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

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

SHEET CONTENTS:
SCHEDULE OF WINDOWS - 2 OF 3

DRAWN BY:
DATE DRAWN:
PNT:

A14

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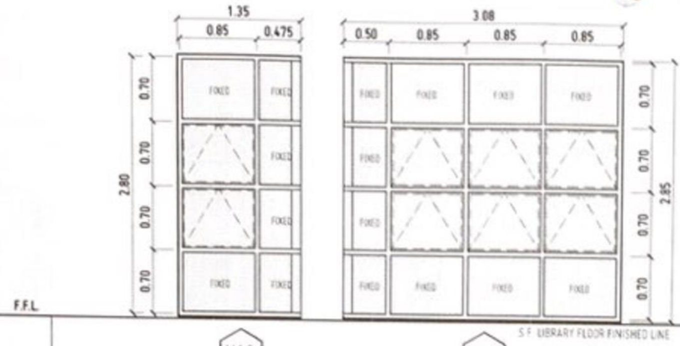
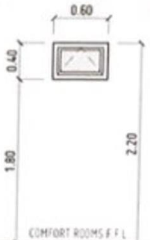
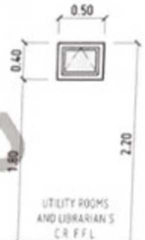
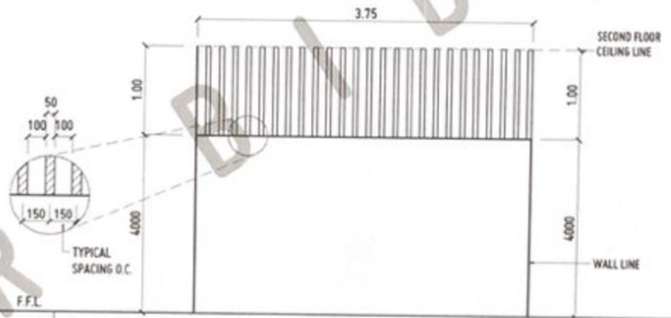






DESIGNATION	W12a W12b	W13	W14
TYPE	COMBINED FIXED AND AWNING WINDOW	AWNING WINDOW	AWNING WINDOW
DESCRIPTION	GLAZING IN 1/4" THK. CLEAR GLASS IN ALUMINUM FRAME POWDER COATED - WHITE, AWNING WINDOWS OPERABLE UP TO 90 DEG., INCLUDING WEATHERSTRIPPING, GLAZING BEADS, GLAZING GASKETS, AND ALL NECESSARY HARDWARE FINISH	GLAZING IN 1/4" THK. CLEAR GLASS IN ALUMINUM FRAME POWDER COATED - WHITE, AWNING WINDOWS OPERABLE UP TO 90 DEG., INCLUDING WEATHERSTRIPPING, GLAZING BEADS, GLAZING GASKETS, AND ALL NECESSARY HARDWARE FINISH	GLAZING IN 1/4" THK. CLEAR GLASS IN ALUMINUM FRAME POWDER COATED - WHITE, AWNING WINDOWS OPERABLE UP TO 90 DEG., INCLUDING WEATHERSTRIPPING, GLAZING BEADS, GLAZING GASKETS, AND ALL NECESSARY HARDWARE FINISH
LOCATION	SF - LIBRARY	COMFORT ROOMS	UTILITY ROOMS AND LIBRARIAN'S OFFICE COMFORT ROOM
SET	1 SET	4 SETS	3 SETS



DESIGNATION	W15
TYPE	ALUMINUM RECTANGULAR TUBE SLATS
DESCRIPTION	2" X 4" ALUMINUM RECTANGULAR TUBING IN WHITE SEMI-GLOSS FINISH 1.0 METER LENGTH - 25 PCS -
LOCATION	SECOND FLOOR HALLWAY (NEAR PUBLIC COMFORT ROOMS; SEE FLOOR PLAN)
SET	1 SET

A 15 1 SCHEDULE OF WINDOWS - 3 OF 3
SCALE 1:5 HIS

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REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMPA
ARCHITECT

PRC NO.	0013379	PTR NO.	5241471 A
		DATE	01-27-2022
TIN	185-092-837	PLACE	CDO CITY

PROJECT: PROPOSED
INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINAND A. DUMPA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. ERWIN B. BUCAO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

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

SHEET CONTENTS:
SCHEDULE OF WINDOWS - 3 OF 3

DRAWN BY:
DATE DRAWN:
PNT:

A15

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

DRAWING SYMBOLS

SCHEDULE OF FINISHES

- CEILING FINISHES
- FLOOR FINISHES

- WALL FINISH OF SAME SIDE OF SYMBOL
- WALL OR PARTITION
- WALL FINISH OF OTHER SIDE

FLOOR FINISHES

MARK	DESCRIPTION
FF-1	SMOOTH TROWEL FINISHED CONCRETE FLOORING
FF-2	600 X 600MM NON-SKID CERAMIC FLOOR TILES IN GRAY SHADE WITH CEMENTITIOUS WATERPROOFING VERIFY DESIGN
FF-3	600 X 600MM NON-SKID PORCELAIN FLOOR TILES IN CONCRETE-LIKE FINISH, WITH CEMENTITIOUS WATERPROOFING, VERIFY DESIGN

WALL FINISHES

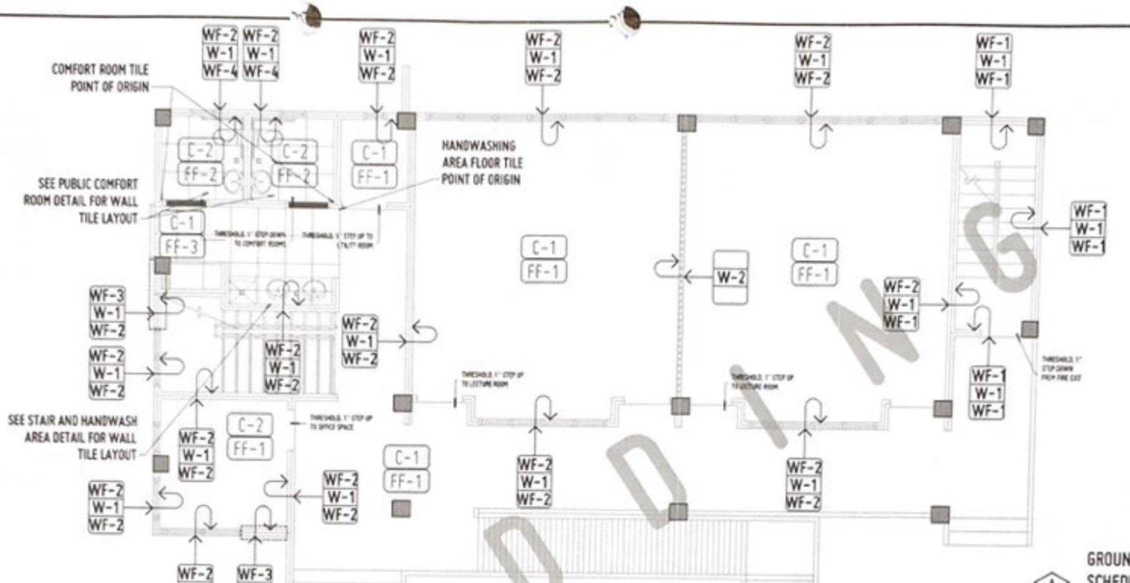
WF-1	PLAIN CEMENT PLASTER TROWEL FINISH "SMOOTH" GRAY SKIMCOAT FINISH
WF-2	PLAIN CEMENT PLASTER TROWEL FINISH "SMOOTH" GRAY SKIMCOAT FINISH PAINTED W/ SELF-CLEANING ANTIBACTERIAL SEMI-GLOSS PAINT IN PURIFYING WHITE COLOR
WF-3	PLAIN CEMENT PLASTER TROWEL FINISH "SMOOTH" GRAY SKIMCOAT FINISH PAINTED W/ SELF-CLEANING ANTIBACTERIAL SEMI-GLOSS PAINT IN NAVY BLUE
WF-4	FLOOR-TO-CEILING - 300MM X 300MM WHITE CERAMIC WALL TILE ON CHB WALL
WF-5	LOWER - 300MM X 300MM CERAMIC WALL TILE IN GRAY SHADE UPPER - PLAIN CEMENT PLASTER TROWEL FINISH "SMOOTH" GRAY SKIMCOAT FINISH PAINTED W/ WHITE SEMI-GLOSS LATEX PAINT

PARTITION

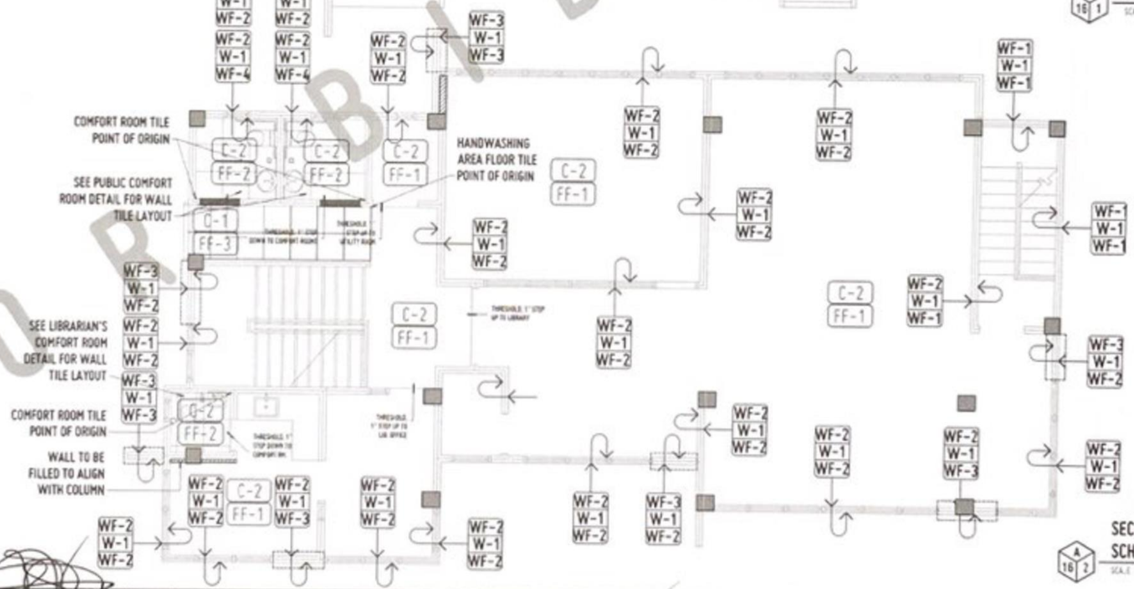
W-1	150MM THK. WALLS
W-2	6 MM. FIBERCEMENT BOARD DRYWALL ON METAL FRAME (OPTIONAL)

CEILING FINISHES

C-1	OPEN CEILING (EXPOSED UNDERSIDE OF SECOND FLR. SLAB), PAINTED W/ SELF-CLEANING, ANTIBACTERIAL FLAT PAINT IN PURIFYING WHITE COLOR
C-2	DROPPED CEILING, 4.5MM THK. FIBER CEMENT BOARDS IN METAL FRAMING SPACED ACCORDINGLY. PAINTED WITH FLAT WHITE



GROUND FLOOR SCHEDULE OF FINISHES
A 16 1
SCALE 1:100 MTS



SECOND FLOOR SCHEDULE OF FINISHES
A 16 2
SCALE 1:100 MTS

FOR BIDDING

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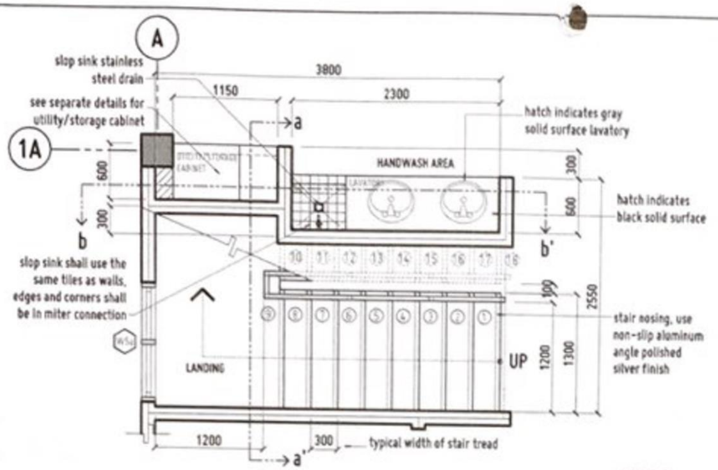
REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMPA ARCHITECT				PROJECT	PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
PRC NO.	0013329	PTR NO.	5241471 A		
		DATE	01-27-2022	LOCATION	USTP PANAON, MISAMIS OCCIDENTAL
TIN	105-092-837	PLACE	CDO CITY	OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

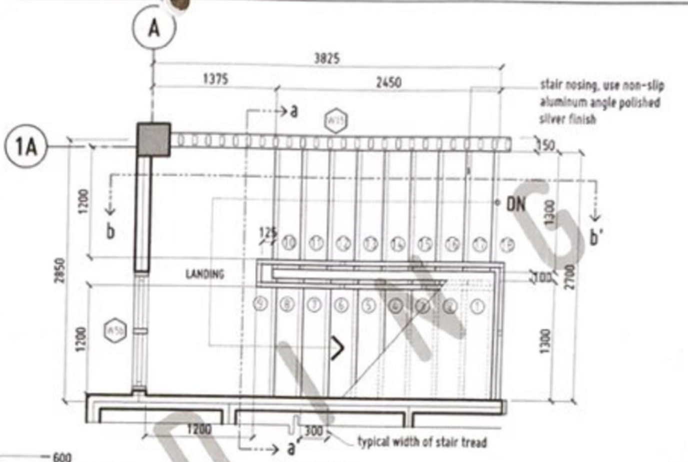
RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	DRAWN BY:
AR. FERDINAND A. DUMPA DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	ATTY. ERWIN B. BUCIO VP FOR ADMINISTRATION & LEGAL AFFAIRS	DR. AMBROSIO B. CULTURA II PRESIDENT, USTP SYSTEM	GROUND FLOOR SCHEDULE OF FINISHES SECOND FLOOR SCHEDULE OF FINISHES	DATE DRAWN: FNT:

A16

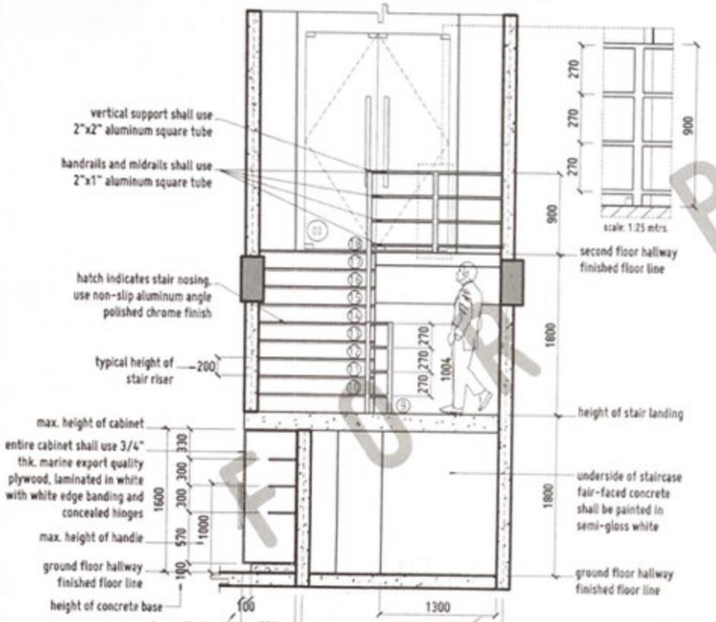
REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



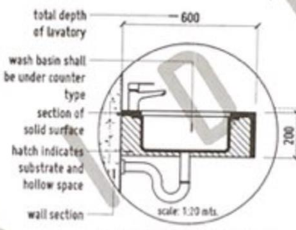
GROUND TO SECOND FLOOR



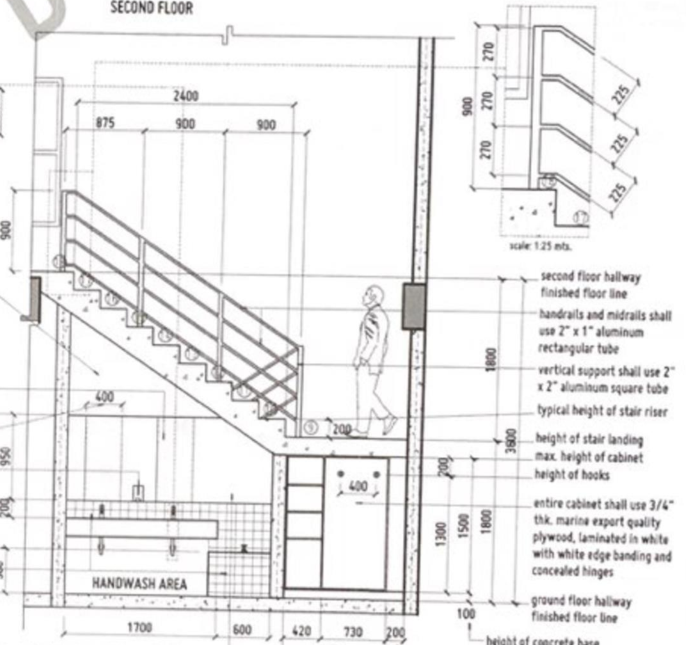
SECOND FLOOR



SECTION A



LAVATORY BLOW-UP SECTION



SECTION B

DETAIL - STAIRCASE AND HANDWASH AREA - 1 OF 2

A / 17 / 1

SCALE 1:50 MTS

FOR BIDDING

USTP

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMPA
ARCHITECT

PRC NO	0013329	PTR NO	5241671 A
		DATE	01-27-2022
TIN	185-092-837	PLACE	CDO CITY

PROJECT: PROPOSED
INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINAND A. DUMPA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT UNIT

RECOMMENDING APPROVAL:
ATTY. ERWIN B. BUCIO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

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

SHEET CONTENTS:
DETAIL - STAIRCASE AND HANDWASH AREA 1 OF 2

DRAWN BY:
DATE DRAWN:
FNT:

A17

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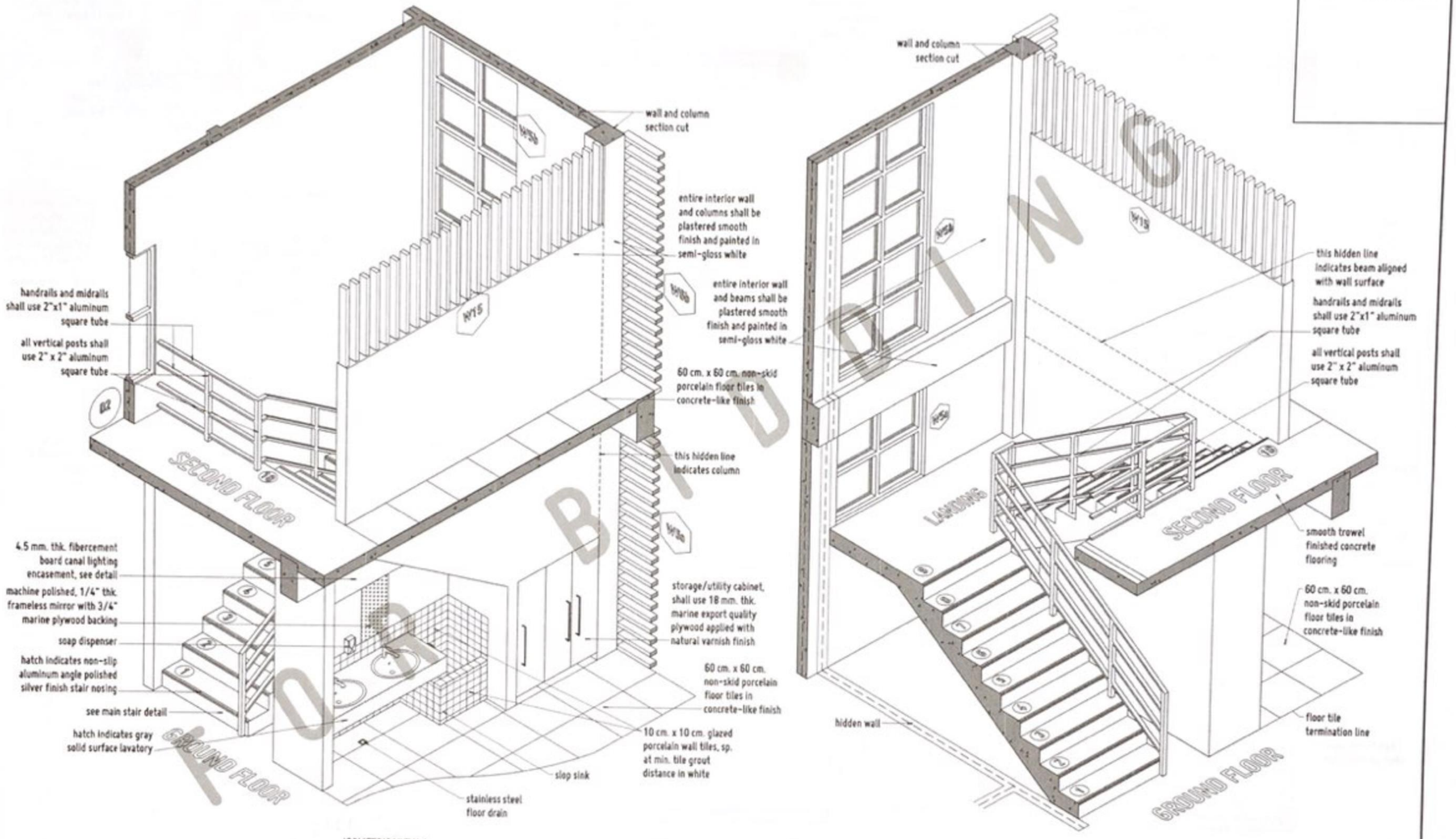
OFFICE OF THE BUILDING OFFICIAL

FOR BIDDING



ISOMETRIC VIEW 1

ISOMETRIC VIEW 2

A
18 | 1

DETAIL - STAIRCASE AND HANDWASH AREA - 2 OF 2

SCALE 1:50 MTS

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CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

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PRC NO.	0013329	PTR NO.	5241471 A
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PRESIDENT, USTP SYSTEM

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DETAIL - STAIRCASE AND HANDWASH AREA 2 OF 2

DRAWN BY:
DATE DRAWN:
PNT:

A18

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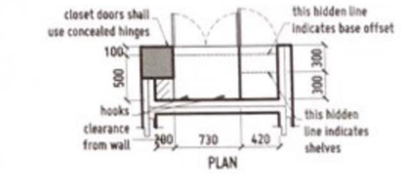

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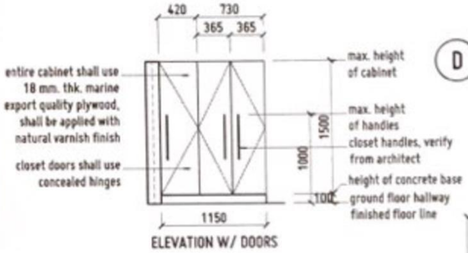
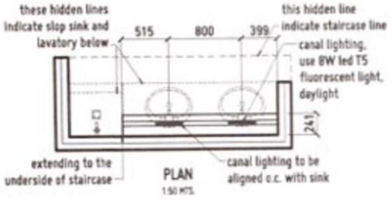


ELEVATION W/ DOORS

DETAIL - CLOSET

A 19 1
SCALE 1:50 MTS



PLAN
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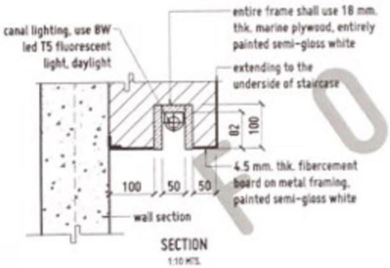
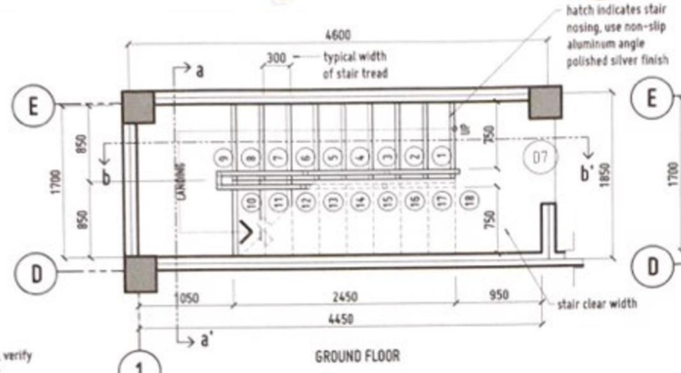


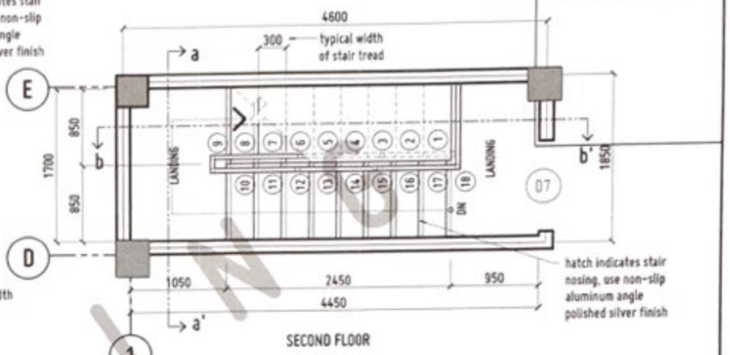
SECTION
1:10 MTS.

DETAIL - HANDWASH AREA CANAL LIGHTING

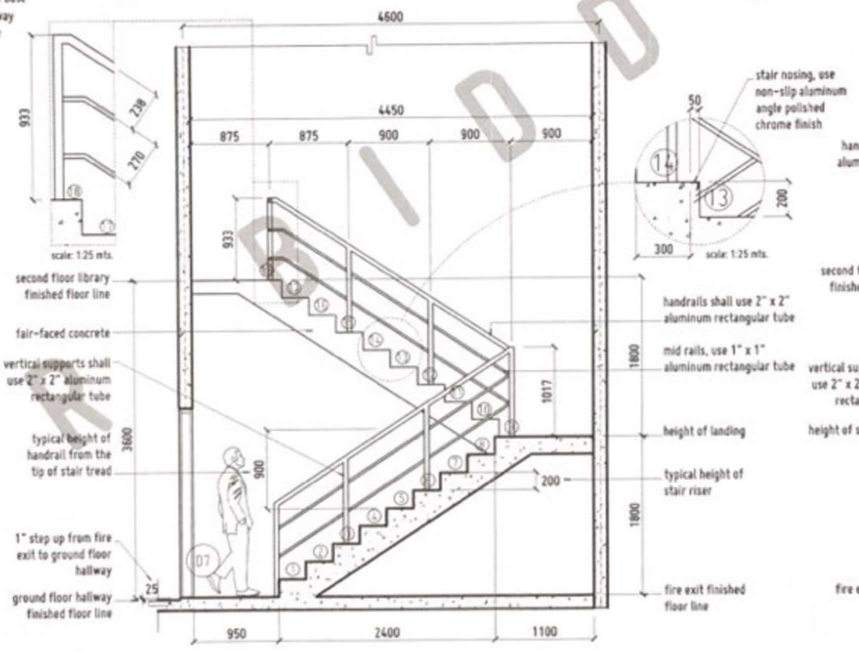
A 19 2
SCALE 1:10 MTS



GROUND FLOOR



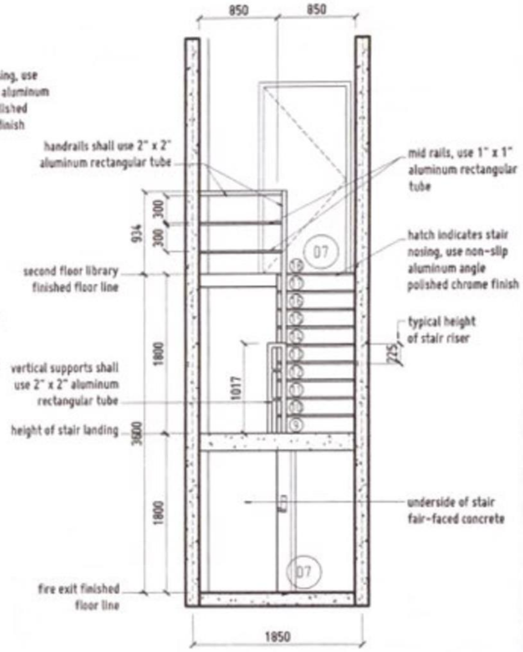
SECOND FLOOR



SECTION A

DETAIL - FIRE EXIT

A 19 3
SCALE 1:50 MTS



SECTION B

FOR BIDDING

USTP

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CAMPUS INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT	AR. FERDINAND A. DUMPA ARCHITECT			PROJECT	PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
	PRC NO.	0013329	PTR NO. 5241471 A		
			DATE 01-27-2022	LOCATION	USTP PANAON, MISAMIS OCCIDENTAL
	TIN	105-092-[illegible]	PLACE CDO CITY	OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	DRAWN BY:
AR. FERDINAND A. DUMPA	ATTY. ERWIN B. BUCIO	DR. AMBROSIO B. CULTURA II	DETAIL - CLOSET DETAIL - HANDWASH AREA CANAL LIGHTING DETAIL - FIRE EXIT	DATE DRAWN:
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM		FNT:

A19

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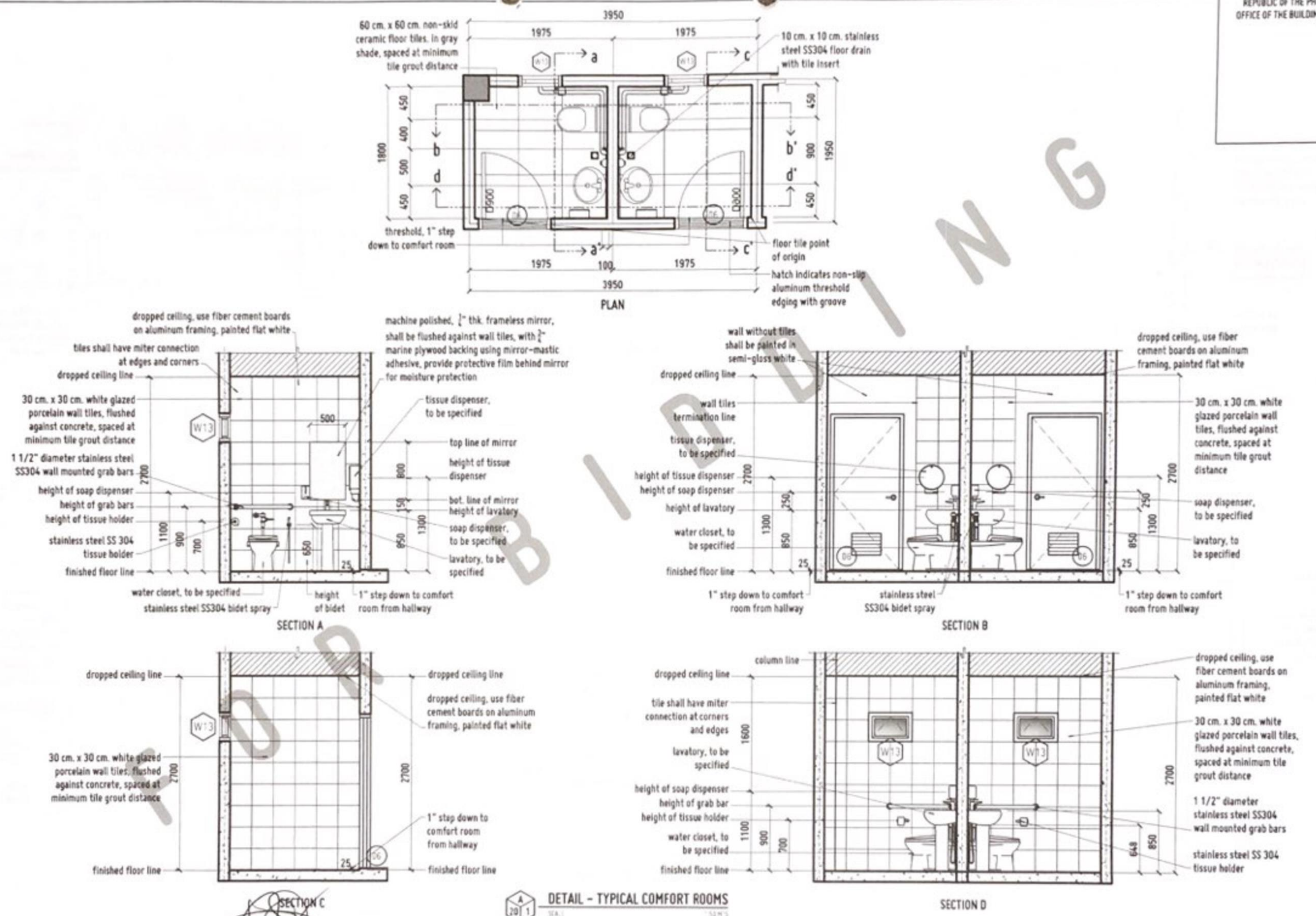

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DETAIL - TYPICAL COMFORT ROOMS

FOR BIDDING

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REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CAMPUS INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT	AR. FERDINAND A. DUMPA ARCHITECT				
	PRC NO	0018326	PTR NO	5241471 A	
			DATE	01-27-2022	
	TIN	185-092-837	PLACE	CDO CITY	

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ATTY. ERWIN B. BUGIO
VICE PRESIDENT, ADMINISTRATION & LEGAL AFFAIRS

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

SHEET CONTENTS:
DETAIL - TYPICAL COMFORT ROOMS

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FNT:

A20

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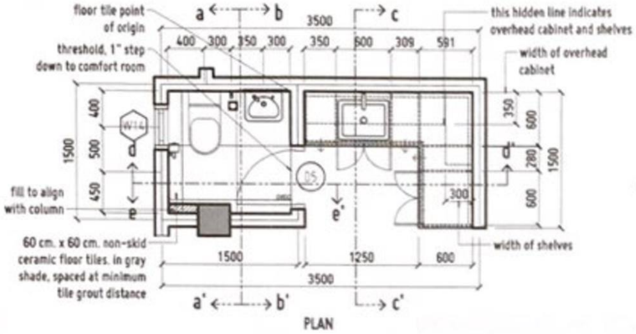
OFFICE OF THE BUILDING OFFICIAL



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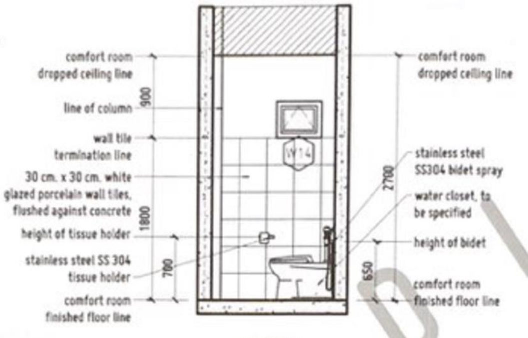
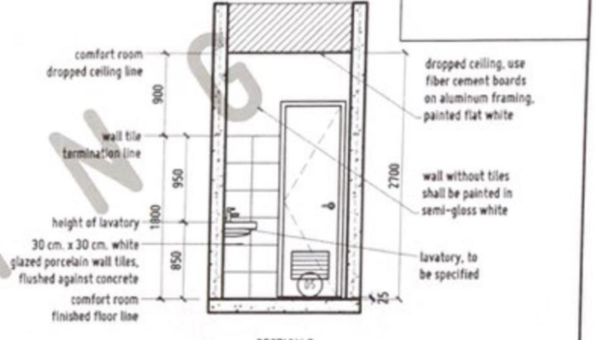


SECTION A



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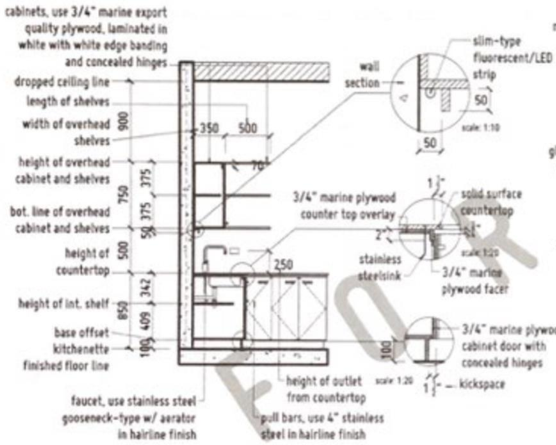

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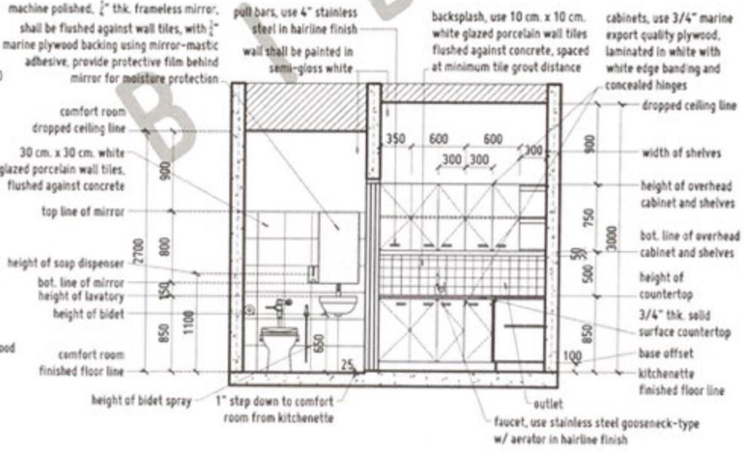

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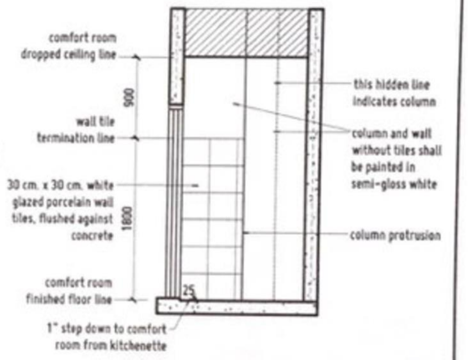

SECTION E

FOR BIDDING

DETAIL - LIBRARIAN'S COMFORT ROOM AND KITCHENETTE

SCALE 1:50 MTS

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REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMPA			
ARCHITECT			
PRC NO.	0013329	PTR NO.	5241471 A
		DATE	01-27-2022
TIN	185-092-837	PLACE	CDO CITY

PROJECT	PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION	USTP PANAON, MISAMIS OCCIDENTAL
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RECOMMENDING APPROVAL:
ATTY. ERWIN B. BUCIO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

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

SHEET CONTENTS:
DETAIL - LIBRARIAN'S COMFORT ROOM AND KITCHENETTE

DRAWN BY:
DATE DRAWN:
CHKD:

A21

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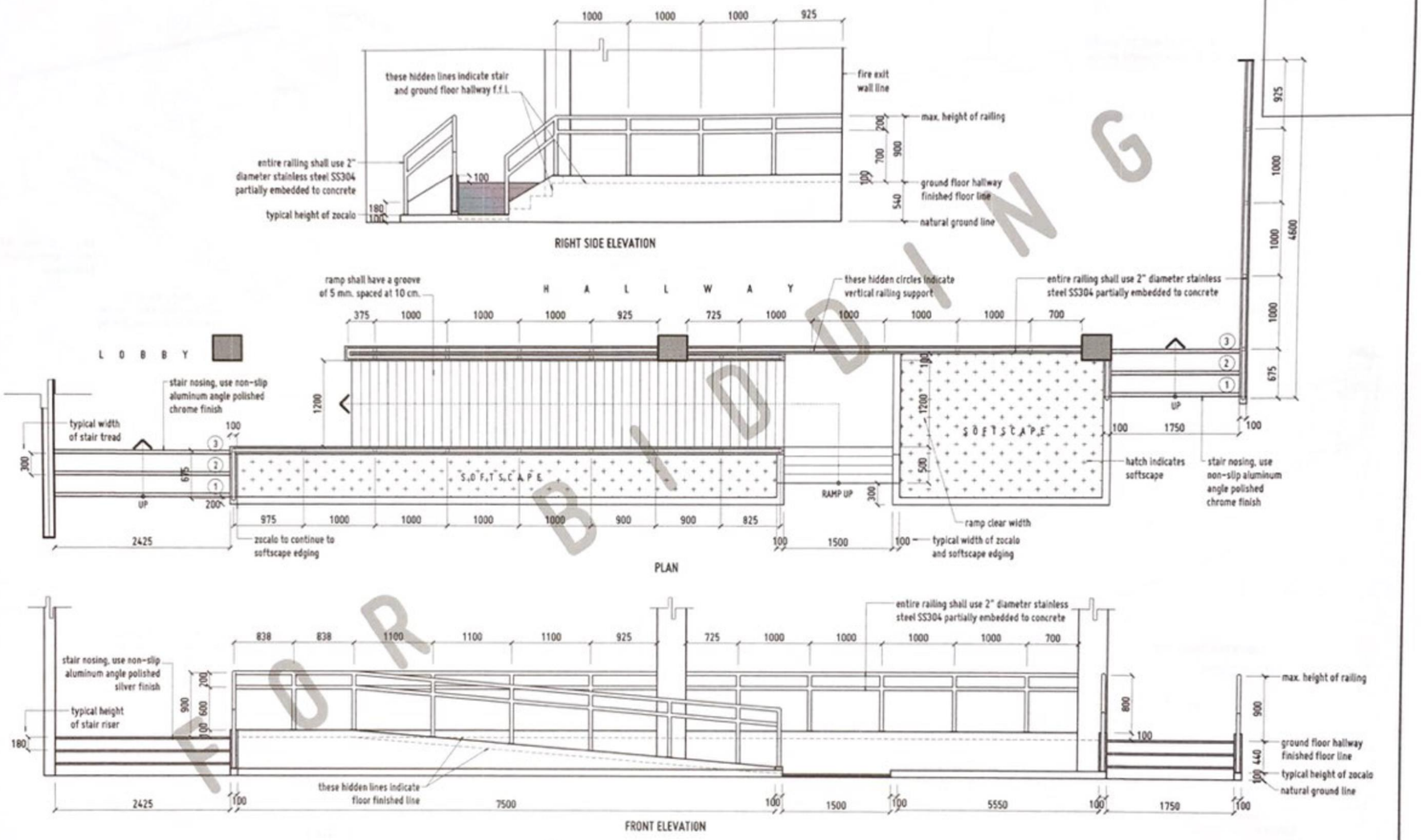
OFFICE OF THE BUILDING OFFICIAL

FOR BIDDING



DETAIL - ENTRANCE STAIR AND RAMP - 1 OF 2

A 22 1

SCALE 1:50 MTS

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMPA ARCHITECT			
PRC NO.	0013029	PTR NO.	5241471 A
		DATE	01-27-2022
TIN	185-002-827	PLACE	CDO CITY

PROJECT	PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION	USTP PANAON, MISAMIS OCCIDENTAL
OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:
AR. FERDINAND A. DUMPA	ATTY. ERWIN B. BUCIO	DR. AMBROSIO B. CULTURA II
DIRECTOR, INFRASTRUCTURE PLANNING AND DEVELOPMENT OFFICE	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM

SHEET CONTENTS: DETAIL - ENTRANCE STAIR AND RAMP 1 OF 2

DRAWN BY:
DATE DRAWN:
PAT:

A22

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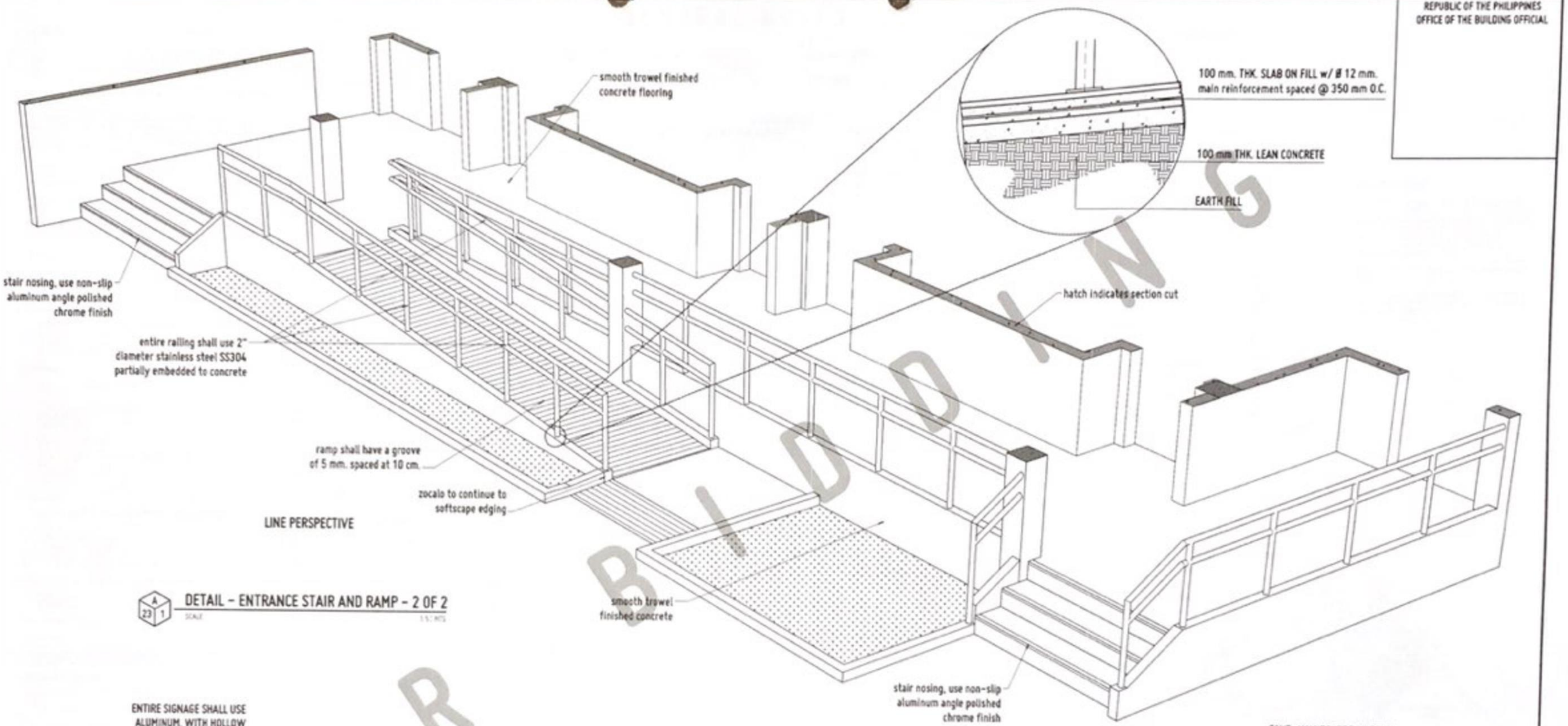
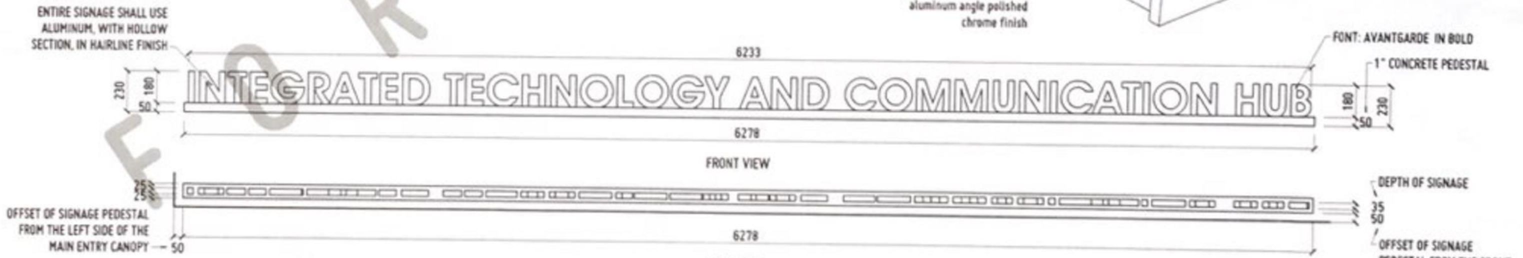
OFFICE OF THE BUILDING OFFICIAL



A / 23 | 1 **DETAIL - ENTRANCE STAIR AND RAMP - 2 OF 2**
SCALE 1:5 NTS



A / 23 | 2 **DETAIL - ITC HUB ENTRY SIGNAGE**
SCALE 1:25 NTS

FOR BIDDING

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PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
DETAIL - ENTRANCE STAIR AND RAMP 2 OF 2
DETAIL - ITC HUB ENTRY SIGNAGE

DRAWN BY:
DATE DRAWN:
FNT:

A23

GENERAL NOTES

1. GENERAL

1.1 THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, OPENINGS AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORKS.

1.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK.

1.3 THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

1.4 THE DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO THE APPROVAL BY THE ROYAL COMMISSION.

1.5 LOADING(S) APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADING USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.

1.6 ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.

2. DESIGN CRITERIA

2.1 STANDARDS

2.1.1 THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODE OF STANDARD PRACTICE

A. NATIONAL STRUCTURAL CODE OF THE PHILIPPINES
B. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI-318M)
C. INTERNATIONAL BUILDING CODE (IBC)
D. STRUCTURAL ENGINEERING INSTITUTE/AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7)

2.2 MATERIALS

2.2.1 THE FOLLOWING STRUCTURAL MATERIALS AND THEIR CORRESPONDING STRENGTH ARE ADOPTED IN THE DESIGN

A	CONCRETE CYLINDER STRENGTH AT 28 DAYS	F'c = 25 MPa
B	CONCRETE BLINDING	F'c = 20 MPa
C	REINFORCING BARS	Fy = 414 MPa
D	CONCRETE MASONRY UNITS	F'm = 14 MPa
E	STRUCTURAL STEEL PLATES AND SHAPES - ASTM A36	Fy = 248 MPa
F	ANCHOR BOLTS - ASTM A307	Fy = 228 MPa

2.3 DESIGN LOADS

2.3.1 DEAD LOADS: DESIGN GRAVITY DEAD LOADS USED IN THE DESIGN ARE AS FOLLOWS:

A	CONCRETE	24 KN/M³
B	50 MM FLOOR TOPPING + FINISH	1.1 KN/M²
C	100 MM CONCRETE MASONRY UNITS	2.70 KN/M²
D	150 MM CONCRETE MASONRY UNITS	3.30 KN/M²
E	ROOF TOPPING + WATERPROOFING + INSULATION	2.50 KN/M²

2.3.2 LIVE LOADS: DESIGN GRAVITY LIVE LOADS USED IN THE DESIGN ARE AS FOLLOWS:

A	FLOOR LIVE LOAD	2.0 KN/M²
B	ROOF LIVE LOAD	CONCRETE ROOF 1.0 KN/M² STEEL ROOF .60 KN/M²
C	CORRIDORS, STAIRS & BALCONIES	5.0 KN/M²

2.3.3 WIND LOAD

2.3.3.1 WIND LOAD ON STRUCTURE SHALL BE COMPUTED AND APPLIED IN CONFORMANCE TO THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION.

2.3.3.2 DESIGN WIND PRESSURES

A. BASIC WIND VELOCITY FOR JASAAN, MISAMIS OR. ARE AS FOLLOWS: 150 KPH

B. SIMPLIFIED DESIGN WIND SHALL BE DESIGNED AS GIVEN IN NSCP FIGURE REFL. 6 & 13

2.3.3.3 ADJUSTMENT FACTOR FOR BUILDING HEIGHT AND EXPOSURE (λ)

A. ADJUSTMENT FACTOR FOR BUILDING HEIGHT AND EXPOSURE (λ) SHALL BE AS GIVEN IN FIGURE 6-2 OF SEI/ASCE 7

2.3.3.4 IMPORTANCE FACTOR (I)

A. IMPORTANCE (I) SHALL BE AS DEFINED IN SECTION 6.5.5 OF SEI/ASCE 7

2.3.3.5 EXPOSURE CATEGORY

A. AN EXPOSURE CATEGORY SHALL BE IN ACCORDANCE WITH SECTION 6.5.6 OF SEI/ASCE 7

2.3.4 EARTHQUAKE LOADS

2.3.4.1 COMPUTATIONS AND APPLICATION OF SEISMIC LOADS ON THE STRUCTURE SHALL BE IN ACCORDANCE WITH THE EARTHQUAKE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION.

3. CONCRETE

3.1 GENERAL

3.1.1 STRUCTURAL CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

3.1.2 CONCRETE SHALL BE READY-MIXED UNLESS OTHERWISE APPROVED.

3.1.3 CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI STANDARD.

3.1.4 REINFORCEMENT FOR CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ACI BUILDING CODE 318/318R-25

3.2 FOUNDATION

3.2.1 FOUNDATION SHALL BE DESIGNED BASED ON THE GEO-TECHNICAL INVESTIGATION REPORT. THE GENERAL CONTRACTOR SHALL CONDUCT HIS OWN GEO-TECHNICAL TEST TO VERIFY THE DESIGN IS SAFE AND IS ACCORDANCE TO THE GEO-TECHNICAL SOIL TEST RESULT REPORT.

3.2.2 SITE PREPARATION

3.2.2.1 ALL VEGETATION, DEBRIS AND SURFACE SOILS CONTAINING ORGANIC MATERIALS SHALL BE REMOVE FROM THE SITE.

3.2.2.2 THE EXPOSED SUB-GRADE SHALL BE DENSIFIED PRIOR TO PLACING ANY FILL. THE DENSIFICATION SHALL BE ACHIEVED BY COMPACTION, AND SHALL CONTINUE UNTIL THE SOIL DENSITY, 300 MM BELOW THE EXISTING SUB-GRADE, IS AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.

3.2.2.3 IF THE COMPACTED SOILS ARE DUG TO CONSTRUCTION ACTIVITIES, THESE SOILS SHALL BE RE-COMPACTED AND RE-TESTED.

3.2.3 GROUND WATER TABLE

3.2.3.1 THE CONTRACTOR'S ATTENTION IS DRAWN TO GROUNDWATER ELEVATIONS INDICATED OR DISCUSSED IN THE GEO-TECHNICAL REPORT. WELL-POINTS MAYBE NEEDED SO THAT THE GROUND WATER LEVEL IS MAINTAINED AT LEAST 500 MM BELOW THE BOTTOM OF FOOTINGS DURING COMPACTION AND CONSTRUCTION.

3.2.4 THE SIDES OF FOOTINGS SHALL BE FORMED. EXCAVATED SOILS TO FORM THE SIDES OF FOOTINGS ARE NOT ACCEPTABLE.

3.2.5 TOP OF FOOTING ELEVATION SHALL BE AS SHOWN ON THE FOUNDATION PLAN OR DETAILS. THESE ELEVATIONS ARE A MAXIMUM AND SHALL BE LOWERED AS REQUIRED TO OBTAIN THE REQUIRED DESIGN BEARING PRESSURE.

3.2.6 NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY BRACING PERMANENT CONSTRUCTION.

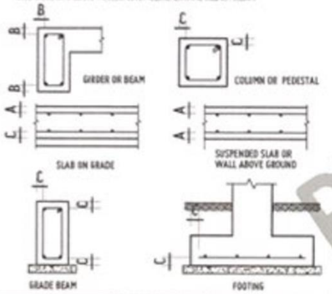
4. CONCRETE CONSTRUCTION

4.1 NO SPLICES SHALL BE PERMITTED IN FLEXURAL MEMBER REINFORCEMENT AT POINTS WHERE CRITICAL BENDING STRESSES OCCURS.

4.2 WHEN A BEAM CROSSES A GIRDER, REST BEAM BARS ON TOP OF GIRDER BARS.

4.3 IF SLABS ARE REINFORCED BOTH WAYS (TWO-WAY SPANNING SLABS), THE BARS ALONG THE SHORT SPAN SHALL BE AT THE LOWER LAYER FOR BOTTOM BARS, AND UPPER LAYER FOR TOP BARS.

4.4 UNLESS OTHERWISE NOTED, THE FOLLOWING CLEAR CONCRETE COVER OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318-14 CLEAR COVER REQUIREMENTS AND USED AS FOLLOWS:

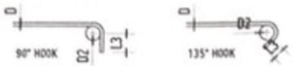


CAST-IN-PLACE CONCRETE		
CLEAR COVER	EXPOSED TO WEATHER OR EARTH	NOT EXPOSED TO WEATHER OR EARTH
A	50	25
B	50	40
C	75	50

PRECAST CONCRETE			
CLEAR COVER	EXPOSED TO EARTH	EXPOSED TO WEATHER	NOT EXPOSED TO WEATHER OR EARTH
WALL PANELS	75	30	20
OTHERS	75	50	30

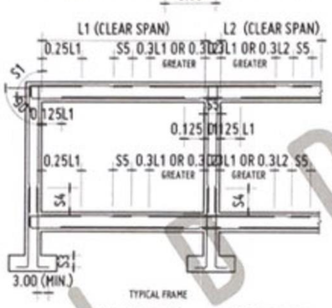
4.5 HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE FOLLOWING MINIMUM REQUIREMENT

MAIN REINFORCEMENT			
BARS (MM)	MINIMUM BEND DIAMETER	EXTENSION	
	D1 (MM)	L1 (MM)	L2 (MM)
#8	50	60	95
#10	60	60	125
#12	70	60	145
#14	85	60	170
#16	95	65	190
#18	110	70	215
#20	120	80	240
#22	130	90	265
#25	150	100	300
#28	225	110	335

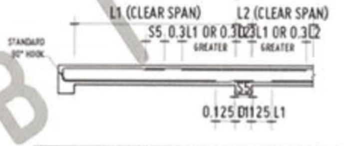


STIRRUPS AND TIES		
BARS (MM)	MINIMUM BEND DIAMETER	EXTENSION
	D2 (MM)	L3 (MM)
#8	30	50
#10	40	60
#12	50	70
#14	55	85
#16	65	95

4.6 UNLESS OTHERWISE INDICATED, THE FOLLOWING MINIMUM DEVELOPMENT AND LAP LENGTH SHALL BE USED:



TYPICAL FRAME



BARS (MM)	MIN. DEVELOPMENT LENGTH			MIN. LAP LENGTH	
	IN TENSION		IN COMPRESSION	IN TENSION	IN COMPRESSION
	S1 (MM)	S2 (MM)	S3 (MM)	S4 (MM)	S5 (MM)
#8	420	325	200	420	300
#10	525	405	210	525	300
#12	630	485	250	630	355
#14	735	565	295	735	410
#16	840	645	335	840	470
#18	945	725	380	945	530
#20	1050	805	420	1050	590
#22	1440	1110	460	1440	650
#25	1640	1260	525	1640	735
#28	1833	1410	590	1833	825
#30	1965	1510	630	1965	880
#32	2085	1615	670	2085	940

NOTES:

A. THE INDICATED MINIMUM DEVELOPMENT AND LAP LENGTH IS FOR CLASS 25 CONCRETE. FOR F'c OTHER THEN 25 MPa THE VALUES OF S1, S2, S3, AND S4 SHALL BE MULTIPLIED BY $5/\sqrt{f'c}$.

B. WHEN LIGHTWEIGHT AGGREGATE CONCRETE IS USED, INDICATED VALUE OF S1 AND S2 SHALL BE MULTIPLIED BY 1.3. HOWEVER WHEN THE AVERAGE SPLITTING TENSILE STRENGTH OF LIGHTWEIGHT AGGREGATE CONCRETE (fct) IS SPECIFIED, S1 AND S2 SHALL BE PERMITTED TO BE MULTIPLIED BY $\sqrt{f'c}/1.8f_{ct}$ BUT NOT LESS THAN 1.0.

C. FOR EPOXY COATED BARS, S1 AND S2 SHALL BE MULTIPLIED BY 1.3.

D. LAP AND DEVELOPMENT LENGTH OF INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE THAT FOR INDIVIDUAL BAR INCREASED BY 20% FOR THREE BAR BUNDLE, 33% FOR FOUR BAR BUNDLE.

5. MASONRY

5.1 MASONRY UNITS SHALL CONFORM TO THE REQUIREMENTS OF ACI 530/ASCE 5.

5.2 MASONRY EXPANSION AND CONTROL JOINT REQUIREMENTS SHALL BE AS INDICATED.

5.3 UNLESS OTHERWISE INDICATED, ALL WALLS SHALL BE LAID IN RUNNING BOND.

5.4 REINFORCING BARS SHALL BE PROVIDED OF THE GIVEN SIZE AND SPACING AS INDICATED. PROVIDE BARS AT ALL WALL CORNERS, INTERSECTIONS AND OPENING EDGES.

5.7 REBAR DOWELS SHALL BE PROVIDED FROM FOUNDATIONS TO MATCH VERTICAL BARS.

5.8 LINTEL BEAM SHALL BE PROVIDED ABOVE ALL WALL OPENINGS.

6. STEEL

6.1 ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16.

7. NOTES FOR DRAWING NOMENCLATURES

7.1 ALL DIMENSIONS ARE IN MILLIMETERS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.

7.2 INDICATED DIMENSION SHALL PREVAIL AGAINST SCALED DIMENSION.

7.3 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS. SHALL NOTIFY THE IPFDS OF ANY DISCREPANCY.

7.4 ALL REINFORCING BARS SHALL BE READ AS FOLLOWS:

8. ABBREVIATIONS

ACI	-	AMERICAN CONCRETE INSTITUTE
ADD'L	-	ADDITIONAL
AP	-	ALTERNATELY PLACED
AR	-	ALTERNATELY REVERSED
AS	-	ALTERNATELY STAGGERED
ASTM	-	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	-	AMERICAN WELDING SOCIETY
B	-	BOTTOM
BF	-	BACK FACE
BW	-	BOTHWAYS
CL	-	CENTER LINE
CLR	-	CLEAR
CMU	-	CONCRETE MASONRY UNIT
CONC	-	CONCRETE
CONT	-	CONTINUOUS
DIA	-	DIAMETER
DISCONT	-	DISCONTINUOUS
DTL	-	DETAIL
DWG	-	DRAWING
EF	-	EACH FACE
EL	-	EXISTING LEVEL
ELEV	-	ELEVATION
EQ	-	EQUAL
EW	-	EACH WAY
EXT	-	EXTERIOR
FF	-	FRONT FACE
FIN	-	FINISH
GLS	-	GUIDELINE SPECIFICATION
HOR	-	HORIZONTAL
INT	-	INTERIOR
LGTH	-	LENGTH
MIN	-	MINIMUM
NTS	-	NOT TO SCALE
OC	-	ON CENTER
REBAR	-	REINFORCING BAR
REINF	-	REINFORCED, REINFORCEMENT, OR REINFORCING
SEC	-	SECTION
SP	-	SPACING
STIRR	-	STIRRUPS
SYMM	-	SYMMETRICAL
T	-	TOP
THK	-	THICK
TYP	-	TYPICAL
UON	-	UNLESS OTHERWISE NOTED
VERT	-	VERTICAL
WWF	-	WELDED WIRE FABRIC

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9. WATER PROOFING

9.1 ALL STRUCTURAL CONCRETE IN CONTACT WITH THE GROUND SHALL BE PROTECTED EITHER BY TWO COATS OF BITUMINOUS DAMPROOFING OR BY USE OF WATER PROOF MEMBRANE AS BEEN SHOWN ON THE DETAILED DRAWING.

POLYETHYLENE SHEET OF 200 MICRON TO BE USED AS VAPOUR BARRIER UNDER MUD SLAB.

WATER PROOFING TO BE APPLIED ON TO TOP OF MUD CONCRETE AND ABOVE.

WHEN USING WATER PROOF MEMBRANE IT SHOULD BE AS PER RC GUIDE SPEC. 07110 (TANKING SYSTEMS) ROYAL COMMISSION GUIDELINE SPECIFICATION 07110.

LOCATION MAP
SCALE 1:3000 MTS

FOR BIDDING

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REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
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PROJECT	PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION	USTP PANAON, MISAMIS OCCIDENTAL
OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

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SHEET CONTENTS:
GENERAL NOTES
LOCATION MAP

DRAWN BY:
DATE DRAWN:
FNT:

S1

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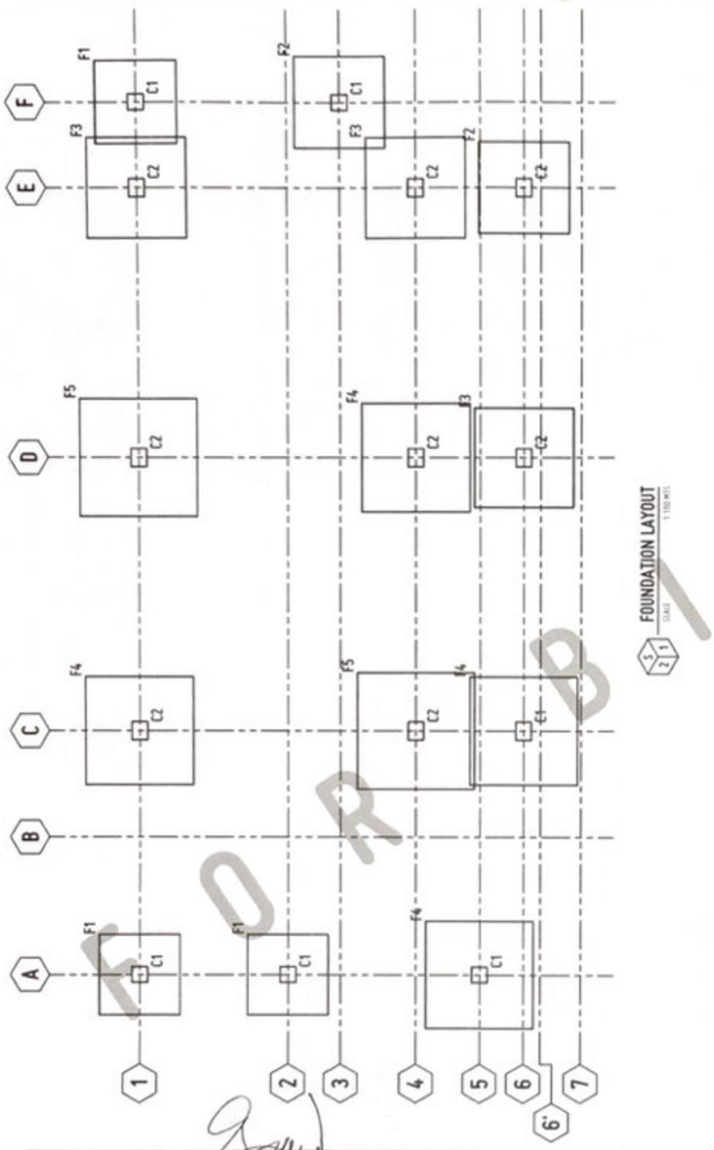
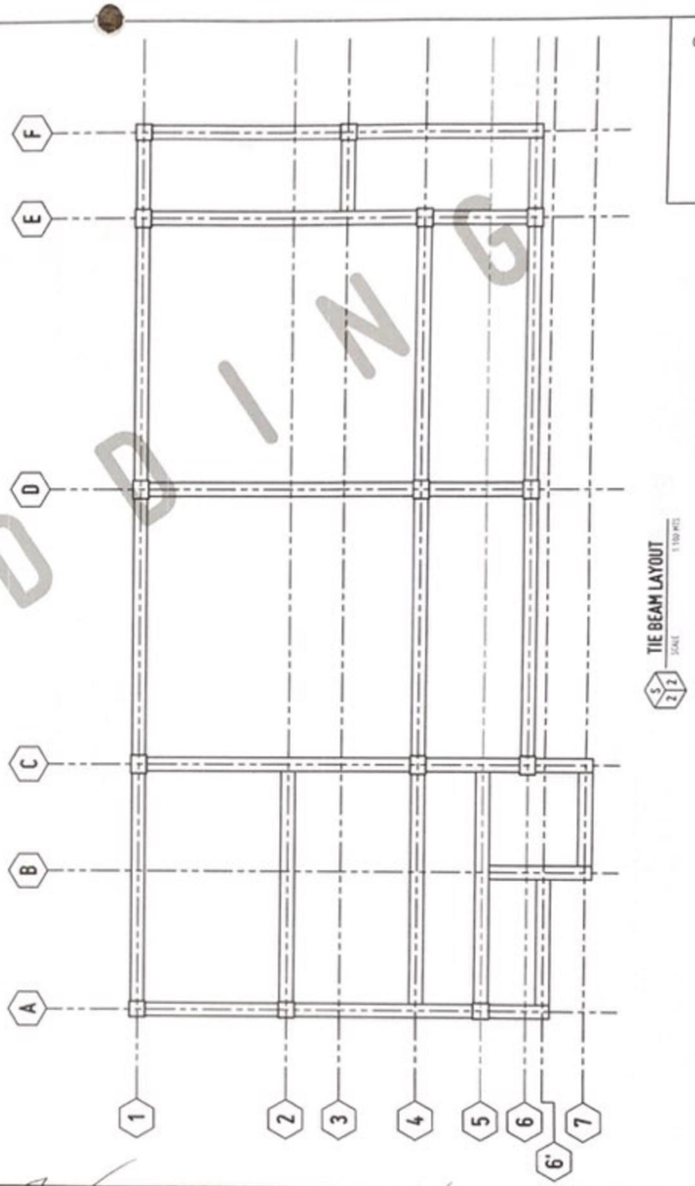


FOUNDATION LAYOUT
SCALE 1:100 MTS
S2 / 1



TIE BEAM LAYOUT
SCALE 1:100 MTS
S2 / 2

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SHEET CONTENTS:
FOUNDATION LAYOUT
TIE BEAM LAYOUT

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DATE DRAWN:
PNT:

S2

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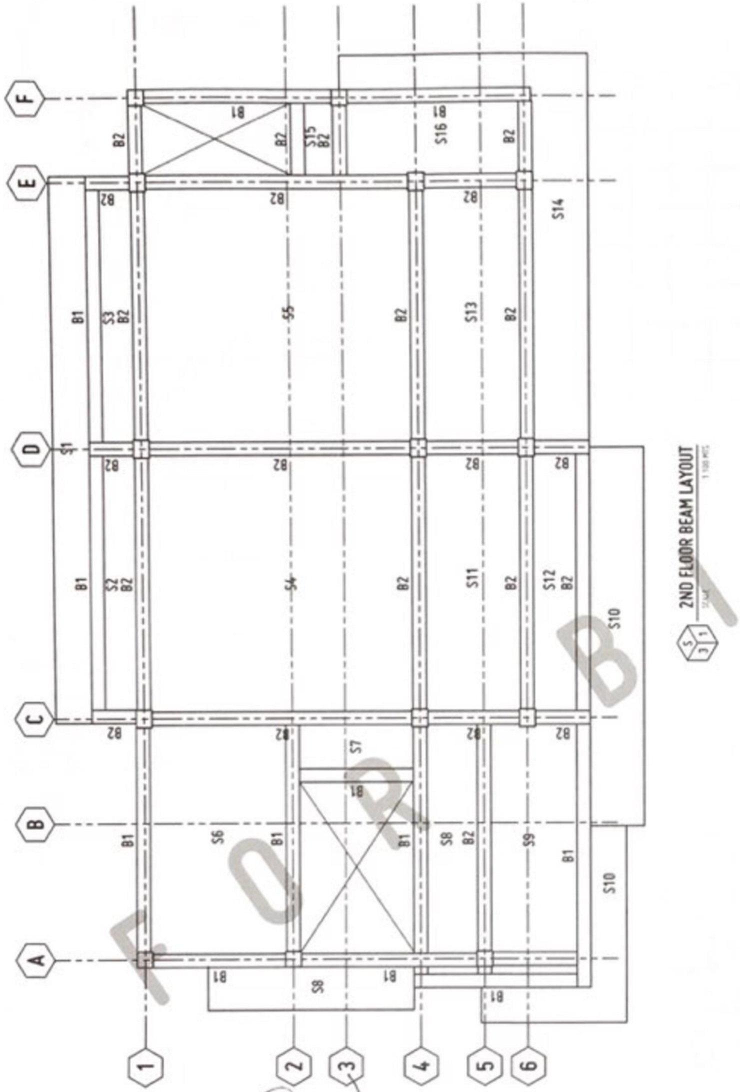
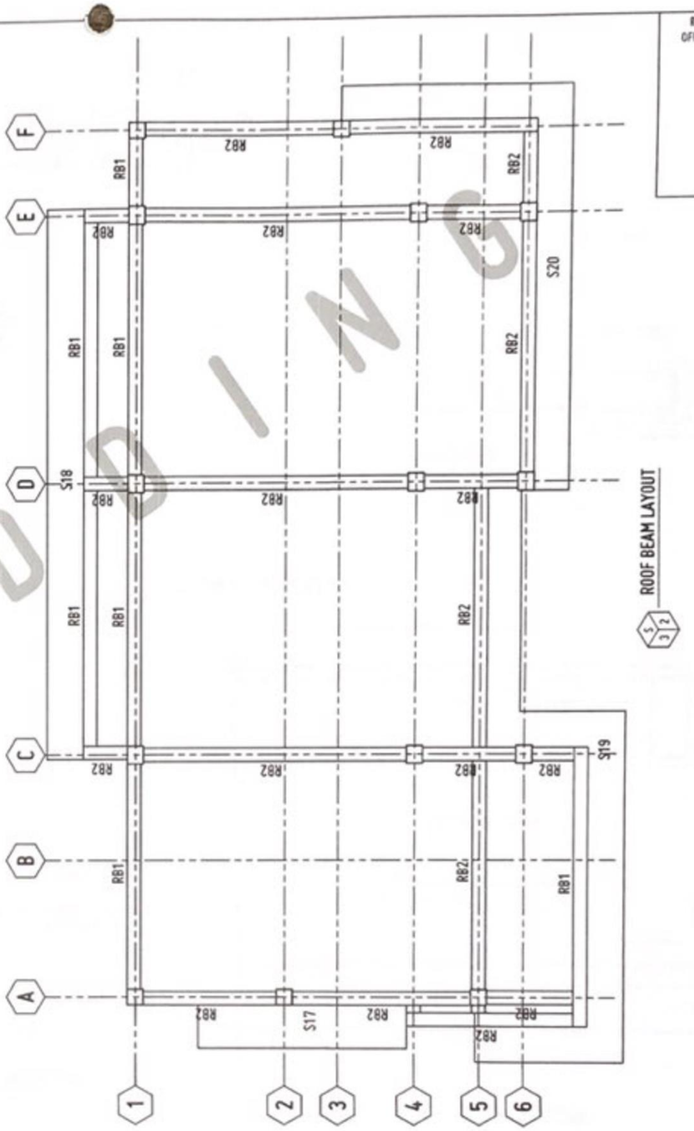


2ND FLOOR BEAM LAYOUT
1:100 MTS
S3 1



ROOF BEAM LAYOUT
S3 2

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SHEET CONTENTS:
2ND FLOOR BEAM LAYOUT
ROOF BEAM LAYOUT

DRAWN BY:
DATE DRAWN:
FNT:

S3

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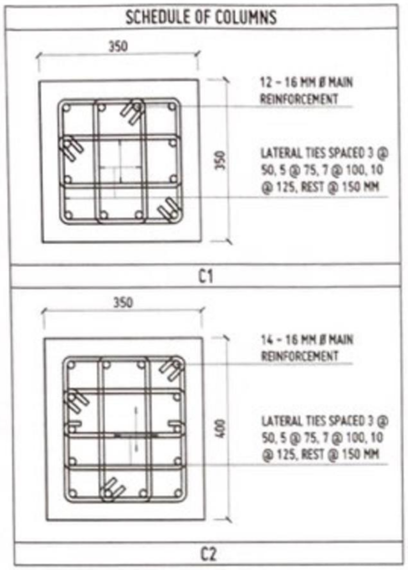
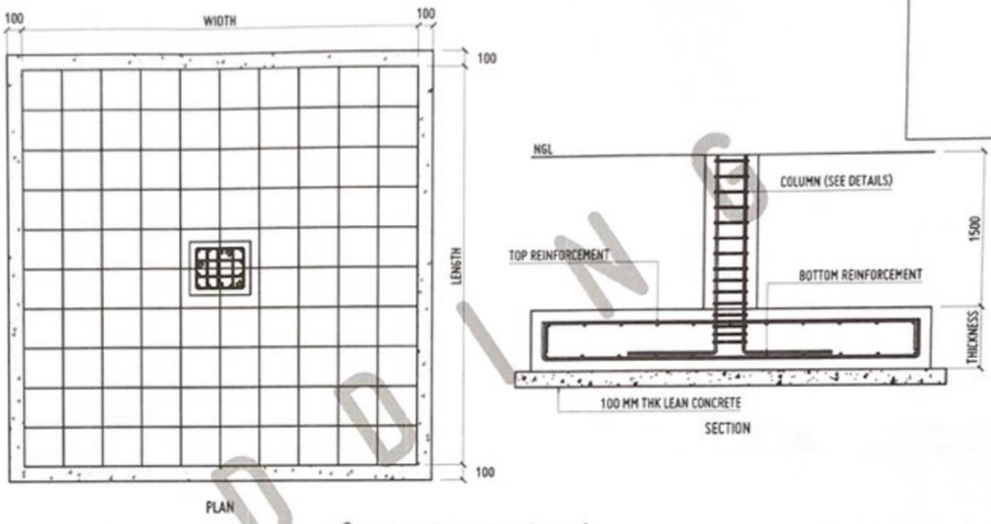
SCHEDULE OF COLUMNS

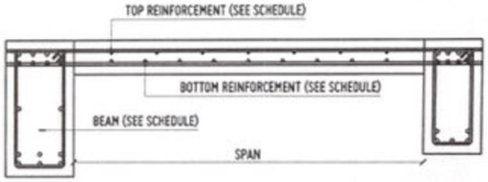




FOUNDATION DETAILS (TYPICAL)

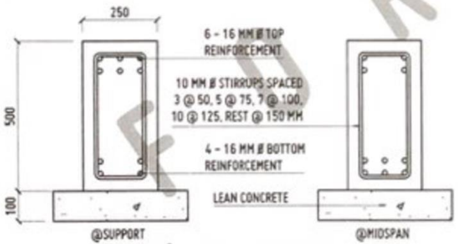
SCALE 1:30 MTS

SCHEDULE OF FOOTING								
SCHEDULE OF FOOTING	DIMENSION		THICKNESS	BAR DIAMETER	MAIN REINFORCEMENT			
	LENGTH	WIDTH			BOT X	BOT Y	TOP X	TOP Y
F1	1800	1800	300	16 MM Ø	8	8	6	6
F2	2000	2000	300	16 MM Ø	9	9	7	7
F3	2200	2200	400	16 MM Ø	10	10	8	8
F4	2400	2400	400	16 MM Ø	11	11	9	9
F5	2600	2600	450	16 MM Ø	12	12	10	10



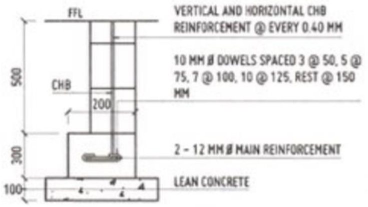
SUSPENDED SLAB

SCALE 1:10 MTS



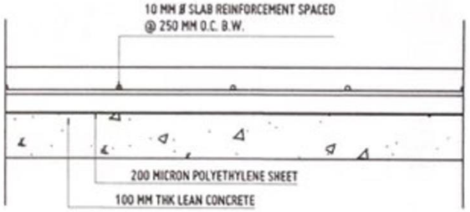
TIE BEAM DETAILS

SCALE 1:20 MTS



WALL FOOTING DETAILS

SCALE 1:20 MTS



FOUNDATION DETAILS (TYPICAL)

SCALE 1:10 MTS

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PLACE EL SALVADOR CITY

PROJECT: PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
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SHEET CONTENTS:
FOUNDATION DETAILS
TIE BEAMS
WALL FOOTING DETAILS
FOUNDATION DETAILS (TYPICAL)

DRAWN BY:
DATE DRAWN:
FNT:

S4

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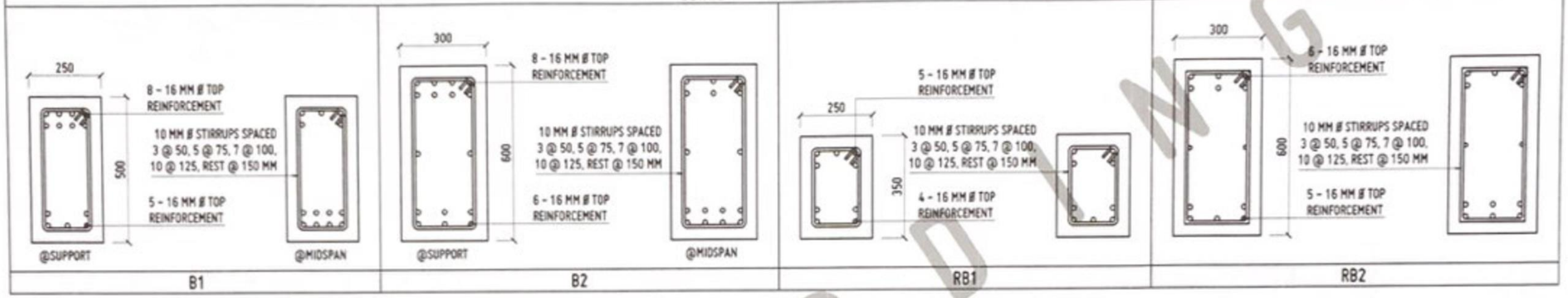
SCHEDULE OF BEAMS

DETAIL



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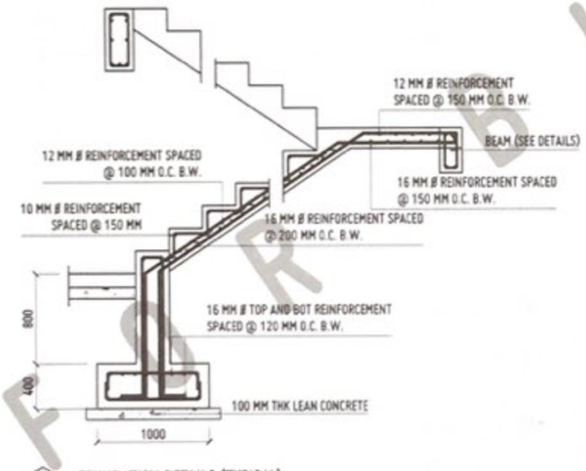

S
5 1

FOUNDATION DETAILS (TYPICAL)

SCALE

SCHEDULE OF SLABS

LEVEL	MARK	THICKNESS	REBARS SPACING ALONG SHORT DIRECTION		REBARS SPACING ALONG LONG DIRECTION		REMARKS
			TOP REINF.	BOT REINF.	TOP REINF.	BOT REINF.	
2ND FLOOR LEVEL	S1	150	12 MM Ø @ 200	10 MM Ø @ 200	12 MM Ø @ 200	10 MM Ø @ 200	CANTI.
	S2	150	12 MM Ø @ 200	10 MM Ø @ 200	12 MM Ø @ 200	10 MM Ø @ 200	CANTI.
	S3	150	12 MM Ø @ 200	10 MM Ø @ 200	12 MM Ø @ 200	10 MM Ø @ 200	CANTI.
	S4	150	10 MM Ø @ 200	12 MM Ø @ 200	10 MM Ø @ 200	12 MM Ø @ 200	TWO-WAY
	S5	150	10 MM Ø @ 250	12 MM Ø @ 250	10 MM Ø @ 250	12 MM Ø @ 250	TWO-WAY
	S6	150	10 MM Ø @ 300	12 MM Ø @ 300	10 MM Ø @ 300	12 MM Ø @ 300	TWO-WAY
	S7	150	10 MM Ø @ 150	12 MM Ø @ 150	10 MM Ø @ 150	12 MM Ø @ 150	TWO-WAY
	S8	150	12 MM Ø @ 200	10 MM Ø @ 200	12 MM Ø @ 200	10 MM Ø @ 200	CANTI.
	S9	150	10 MM Ø @ 100	12 MM Ø @ 100	10 MM Ø @ 100	12 MM Ø @ 100	TWO-WAY
	S10	150	12 MM Ø @ 150	10 MM Ø @ 150	12 MM Ø @ 150	10 MM Ø @ 150	CANTI.
	S11	150	10 MM Ø @ 300	12 MM Ø @ 300	10 MM Ø @ 300	12 MM Ø @ 300	TWO-WAY
	S12	150	10 MM Ø @ 150	12 MM Ø @ 150	10 MM Ø @ 150	12 MM Ø @ 150	TWO-WAY
	S13	150	10 MM Ø @ 250	12 MM Ø @ 250	10 MM Ø @ 250	12 MM Ø @ 250	TWO-WAY
	S14	150	12 MM Ø @ 150	10 MM Ø @ 150	12 MM Ø @ 150	10 MM Ø @ 150	CANTI.
	S15	150	10 MM Ø @ 250	12 MM Ø @ 250	10 MM Ø @ 250	12 MM Ø @ 250	TWO-WAY
	S16	150	10 MM Ø @ 250	12 MM Ø @ 250	10 MM Ø @ 250	12 MM Ø @ 250	TWO-WAY
ROOF BEAM LEVEL	S17	150	12 MM Ø @ 200	10 MM Ø @ 200	12 MM Ø @ 200	10 MM Ø @ 200	CANTI.
	S18	150	12 MM Ø @ 200	10 MM Ø @ 200	12 MM Ø @ 200	10 MM Ø @ 200	CANTI.
	S19	150	12 MM Ø @ 200	10 MM Ø @ 200	12 MM Ø @ 200	10 MM Ø @ 200	CANTI.
	S20	150	12 MM Ø @ 200	10 MM Ø @ 200	12 MM Ø @ 200	10 MM Ø @ 200	CANTI.

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		DATE	1-04-2022
TIN	152-320-743	PLACE	EL SALVADOR CITY

PROJECT: PROPOSED
INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

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PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
SCHEDULE OF BEAMS
SCHEDULE OF SLABS
FOUNDATION DETAILS (TYPICAL)

DRAWN BY:
DATE DRAWN:
FNT:

S5

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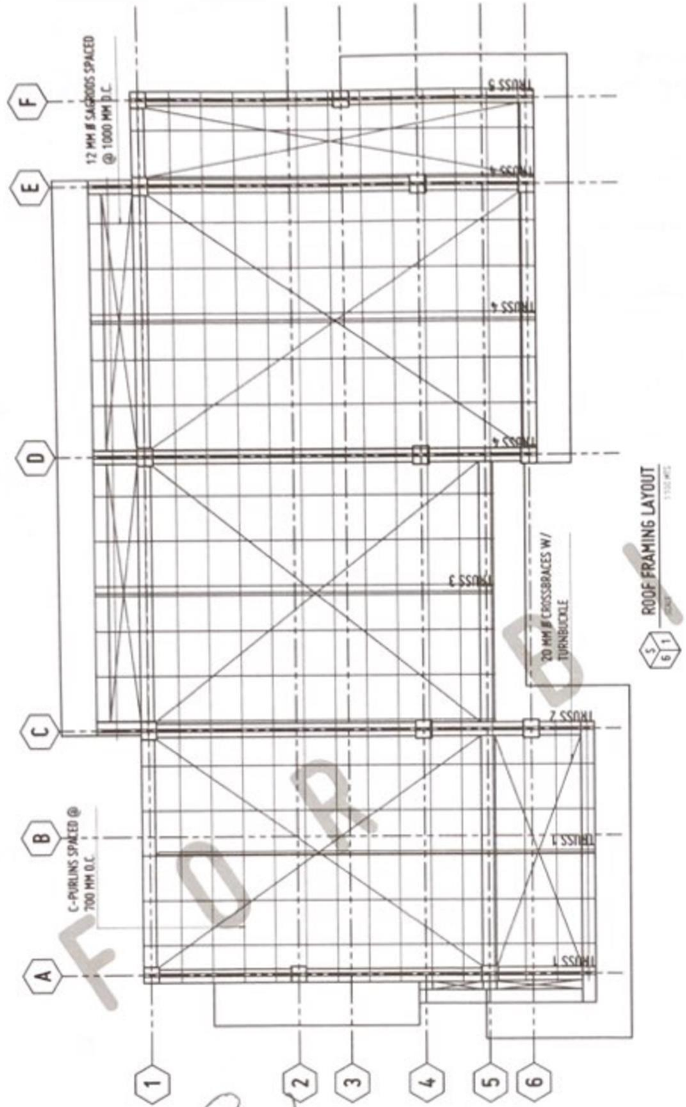
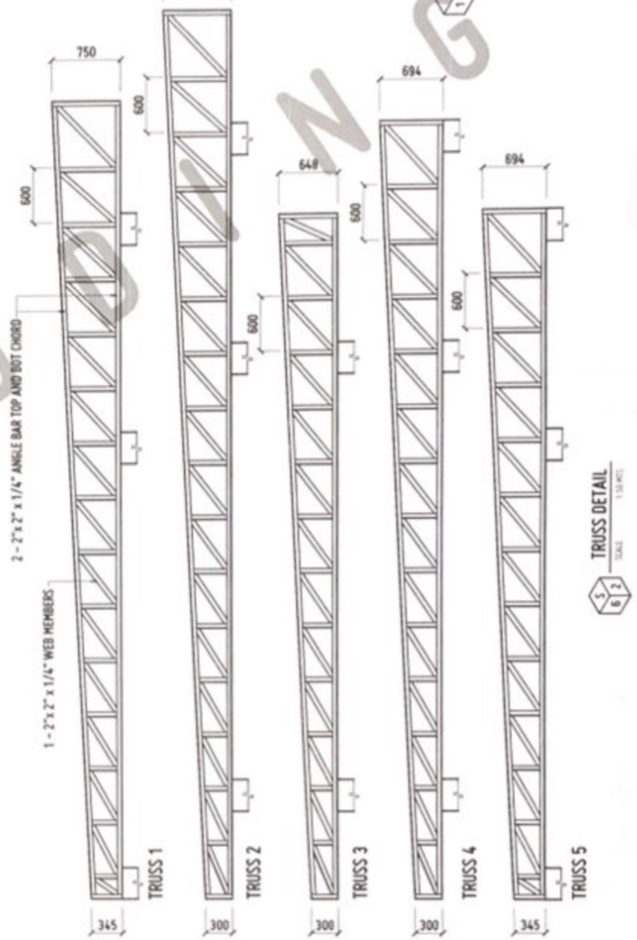


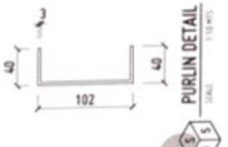
ROOF FRAMING LAYOUT

S6 1



TRUSS DETAIL

S6 2



PURLIN DETAIL

S1 5

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CAGAYAN DE ORO CAMPUS
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LOCATION	USTP PANAON, MISAMIS OCCIDENTAL
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SHEET CONTENTS:
ROOF FRAMING PLAN
TRUSS DETAIL

DRAWN BY:
DATE DRAWN:
FNF:

S6

REPUBLIC OF THE PHILIPPINES
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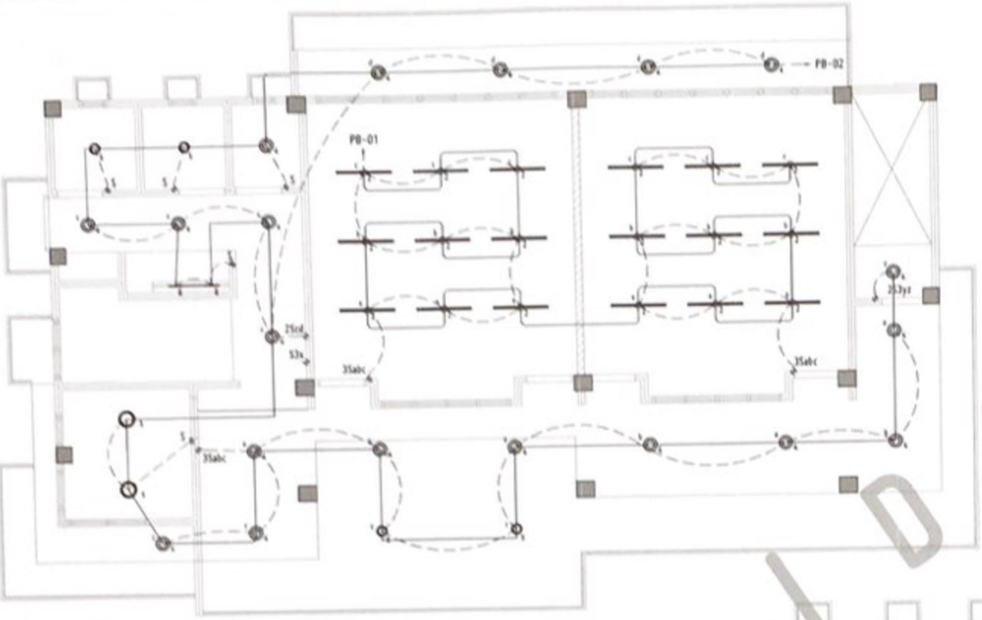
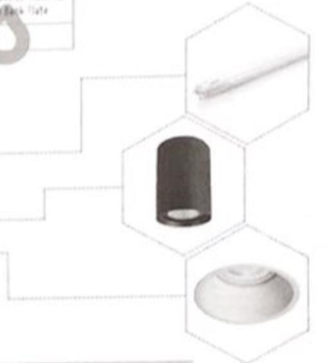


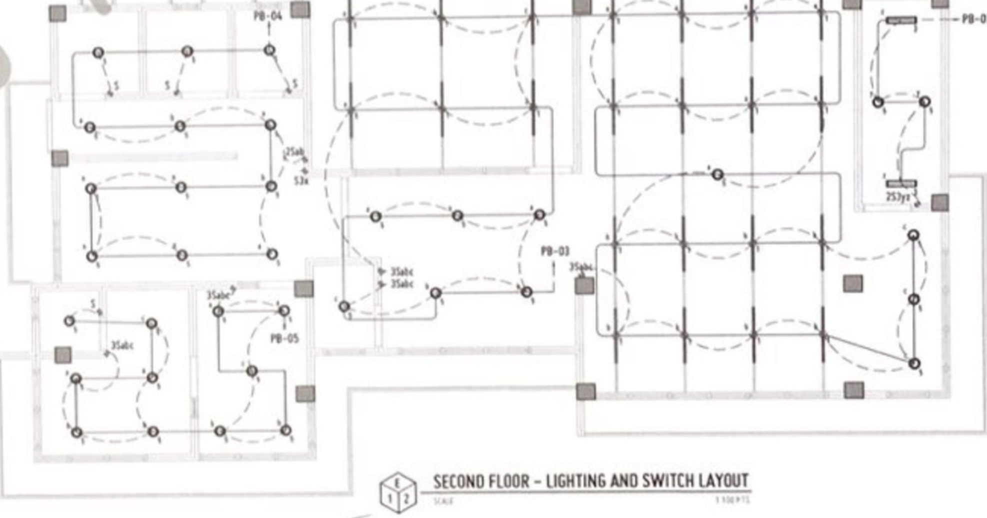
GROUND FLOOR – LIGHTING AND SWITCH LAYOUT

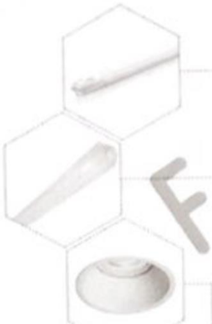
SCALE 1:100MTS

LEGEND	
Symbol	Remarks
S	Single Pole Toggle Switch, 15A, 300V. 2S, 3S, Etc. Indicates Gang Switches. Small Letter Subscript Indicates Lights or Devices Being Controlled. Combine Maximum of Three (3) Toggles on One Standard Device Plate For Switch Location with More Than Nine (9) Toggle, Use Switch Bank Plate
S3	Same as Above Except 3-Way Switch

SYMBOL	WATTAGE	MOUNTING	QTY
—+—	12W	LED T5 FLUORESCENT LIGHT, DAYLIGHT WITH FIXTURE BASE AND SUPPORT	-
—+—	36W	LED T8 FLUORESCENT LIGHT, DAYLIGHT WITH FIXTURE BASE AND SUPPORT	18
▭	16W	LED T8 FLUORESCENT LIGHT, DAYLIGHT WITH INDUSTRIAL HOUSING AND SUPPORT	-
◎	20W	LED SURFACE MOUNTED LIGHT	18
○	13W	LED RECESSED DOWN LIGHT	8
┬	8W	LED T5 FLUORESCENT LIGHT, DAYLIGHT, WITH INDUSTRIAL HOUSING AND SUPPORT	2







SYMBOL	WATTAGE	MOUNTING	QTY
—+—	17W	LED T5 FLUORESCENT LIGHT, DAYLIGHT WITH FIXTURE BASE AND SUPPORT	22
—+—	36W	LED T8 FLUORESCENT LIGHT, DAYLIGHT WITH FIXTURE BASE AND SUPPORT	-
▭	16W	LED T8 FLUORESCENT LIGHT, DAYLIGHT WITH INDUSTRIAL HOUSING AND SUPPORT	2
◎	20W	LED SURFACE MOUNTED LIGHT	-
○	13W	LED RECESSED DOWNLIGHT	35

SECOND FLOOR – LIGHTING AND SWITCH LAYOUT

SCALE 1:100MTS

FOR BIDDING

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CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

PROFESSIONAL ELECTRICAL ENGINEER
PRC NO.
PTR NO.
DATE
TIN
PLACE

PROJECT: PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINAND ATOUMPA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. ERWIN B. BUCIO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

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

SHEET CONTENTS:
GROUND FLOOR LIGHTING AND SWITCH
SECOND FLOOR LIGHTING AND SWITCH

DRAWN BY:
DATE DRAWN:
ENE:

E1

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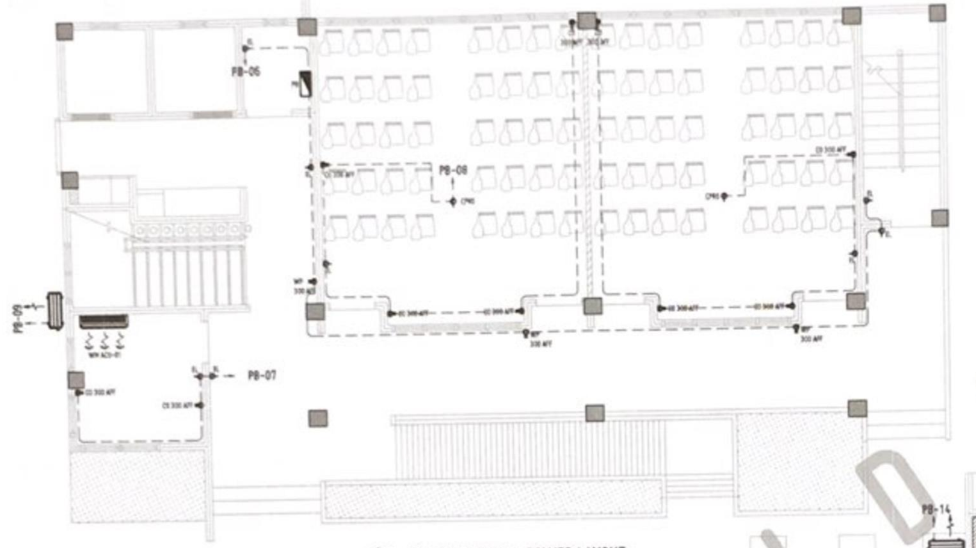
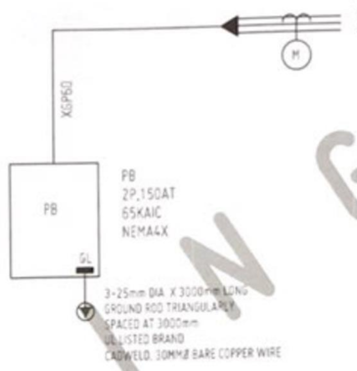
OFFICE OF THE BUILDING OFFICIAL



GROUND FLOOR – POWER LAYOUT

SCALE 1:100 MTS



SINGLE LINE DIAGRAM

SCALE N.T.S.

GENERAL NOTES:

1. FFL = FINISH FLOOR LINE. VERIFY FLOOR FINISHES/MATERIALS.
2. ALL INTERIOR PARTITIONS AND FURNITURE LAYOUT ARE INDICATIVE ONLY AND MAY CHANGE. VERIFY INTERIOR DESIGN DRAWINGS.
3. ALL LANDSCAPE ARCHITECTURE ELEMENTS ARE INDICATIVE ONLY AND MAY CHANGE. VERIFY LANDSCAPE ARCHITECTURE DRAWINGS.
4. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TO GOVERN.
5. INCASE OF DISCREPANCY IN THE FIGURES AND DRAWINGS THE MATTER SHALL BE SUBMITTED IMMEDIATELY TO THE ARCHITECT BEFORE ADJUSTMENTS ARE TO BE MADE.
6. VERIFY ACTUAL TECHNICAL SITE CONDITIONS.
7. VERIFY ACTUAL ELEVATION MARKS AND LOT BOUNDARIES PRIOR TO COMMENCING WORK.
8. ALL WORKS HEREIN SHALL BE DONE UNDER THE STRICT SUPERVISION OF DULY LICENSED AND EXPERIENCED ARCHITECT/ENGINEER.
9. LOT AND BUILDING BOUNDARIES SHOULD BE SUPPORTED BY RETAINING WALLS AND FENCES. VERIFY EXISTING HEIGHTS, ELEVATIONS AND OTHER SITE CONDITIONS.
10. THE GENERAL CONTRACTOR, SUB-CONTRACTORS INCLUDING SPECIALTY CONTRACTORS, SHALL SUBMIT PROPER SHOP DRAWINGS INCLUDING MATERIALS SAMPLE PRIOR TO INSTALLATIONS FOR ARCHITECTS APPROVAL.

	LEGEND
Symbol	Remarks
AFF	Above Finished Floor Line
φ_{CO}	Duplex Convenience Outlet, 1P, 250V, 15A Universal Slots Grounding Type
φ_{FCO}	Duplex Floor Convenience Outlet, 1P, 250V, 15A Universal Slots Grounding Type
φ_{CTO}	Duplex Convenience Outlet, 1P, 250V, 15A Universal Slots Grounding Type, 300mm Height Above Counter Top
φ_{WP}	Weatherproof Duplex Convenience Outlet, 1P, 250V, 15A Universal Slots Grounding Type, for MDF/IDF
φ_{CF}	Simplex Ceiling Convenience Outlet for Ceiling fan, 1P, 250V, 15A Universal Slots Grounding Type
φ_{CPRO}	Simplex Ceiling Convenience Outlet for Ceiling Mounted Projector, 1P, 250V, 15A Universal Slots Grounding Type.
φ_{EL}	Simplex Ceiling Convenience Outlet for Emergency light, 1P, 250V, 15A Universal Slots Grounding Type
$\varphi_{F\ EXIT}$	Simplex Ceiling Convenience Outlet for Fire Exit signage, 1P, 250V, 15A Universal Slots Grounding Type

NOTE: LIGHTING COLOR PER LOCATION SUBJECT FOR ARCHITECTS APPROVAL

SECOND FLOOR – POWER LAYOUT

SCALE 1:100 M'S

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CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

PROFESSIONAL ELECTRICAL ENGINEER	
PRC NO.	PTR NO.
	DATE
TIN	PLACE

PROJECT: PROPOSED
INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

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DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. ERWIN B. BUGIO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

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

SHEET CONTENTS:
GROUND FLOOR POWER LAYOUT
SECOND FLOOR POWER LAYOUT

DRAWN BY:
DATE DRAWN:
INT:

E2

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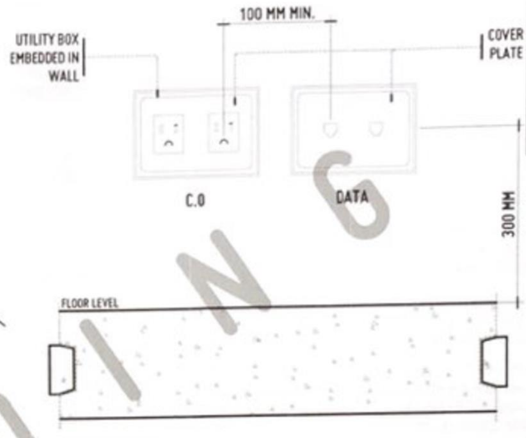
GENERAL NOTES:

1. ALL WORKS SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE. THE RULES & REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITY CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND ORDINANCES AND THE REGULATIONS OF THE UTILITY COMPANY CONCERNED.
2. POWER SERVICE TO THE BUILDING SHALL BE 230 VOLTS 3 PHASE 3 WIRE & GROUND.
4. SMALLEST CONDUCTOR FOR POWER AND LIGHTING SHALL BE 3.5mm2 THHN AND SMALLEST RACEWAY SHALL BE 15mm DIA. TRADE SIZE. CONDUCTOR SHALL BE TYPE THHN EXCEPT AS OTHERWISE REQUIRED BY THE DRAWING AND INSULATED FOR 600 VOLTS.
5. GROUNDING WIRE SHALL BE PROVIDED TO ALL EQUIPMENTS, OUTLETS AND LIGHTING CIRCUITS AND ALL NON-CURRENT CARRYING METAL PARTS.
6. MATERIALS AND EQUIPMENT TO BE USED SHALL BE NEW AND OF APPROVED TYPE FOR BOTH LOCATION AND PURPOSE INTENDED. SUBMIT SAMPLES OF MATERIALS TO THE ARCHITECT/ DESIGN ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
7. NO BRANCH CKT. SHALL HAVE A LOAD OF MORE THAN 80% OF ITS RATING.
8. CIRCUIT BREAKERS SHALL BE BOLT ON TYPE. USE ONLY ONE BRAND ALL THROUGHOUT.
9. MOUNTING HEIGHT SHALL BE AS FOLLOWS:

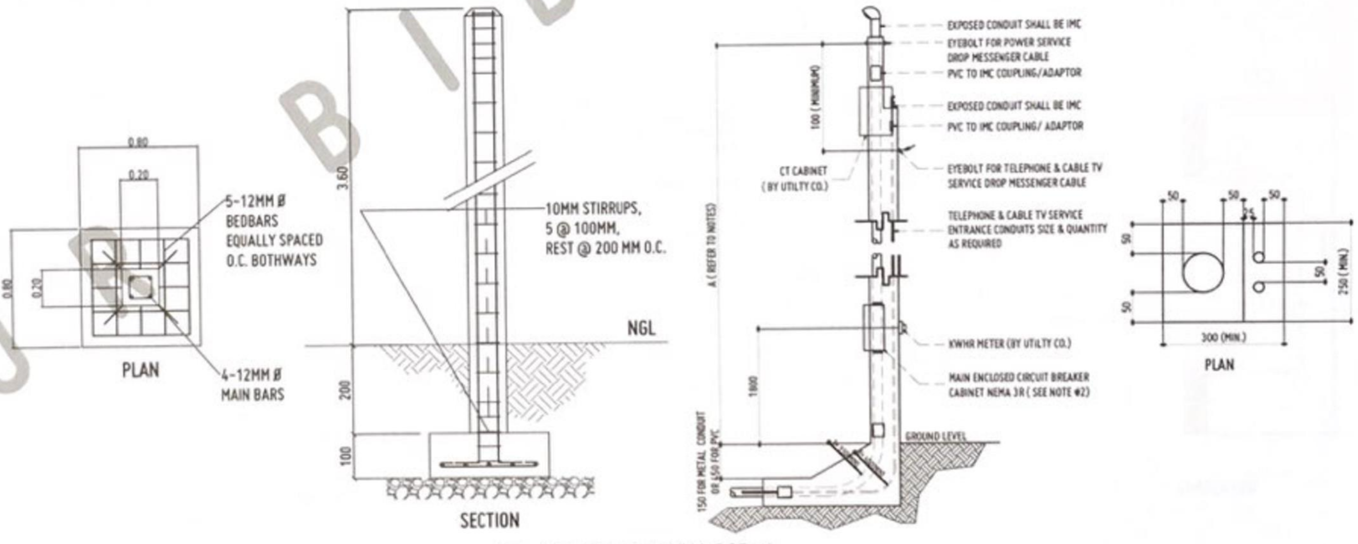
a.	LIGHT CONTROL SWITCH	-	1.52 ABOVE FINISHED FLOOR
b.	CONVENIENCE OUTLET	-	0.30 ABOVE FINISHED FLOOR
c.	SPECIAL PURPOSE OUTLET OR AS REQUIRED BY THE ARCHITECT	-	0.30 ABOVE FINISHED FLOOR
d.	PANEL BOARDS, FIRE ALARM-PANE		1.80 FROM TOP OF PANEL TO FINISHED FLOOR

10. ALL WORKS SHALL BE COORDINATED WITH THE ARCHITECT AND OTHER TRADE DISCIPLINE PRIOR TO INSTALLATION.
11. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS SIGNED AND SEALED BY PROFESSIONAL ELECTRICAL ENGINEER.
12. CONTRACTOR TO PERFORM ALL TEST NECESSARY BUT NOT LIMITED TO THE FOLLOWING:
    - a. CABLE INSULATION INTEGRITY TEST
    - b. PHASE SEQUENCE TEST
    - c. LOAD TEST
    - d. COMPLETE TEST FOR TRANSFORMER
13. ALL WIRES SHALL BE COLOR CODED AS FOLLOWS:
    PHASE - A - BLACK
    GROUND - GREEN
    PHASE - B - RED
    PHASE - C - BLUE
14. NO CHANGE OR MODIFICATION SHALL BE MADE ON THESE PLANS WITHOUT THE ENGINEER'S/OWNER'S WRITTEN COMMENT.
15. ALL MOTORS AND AIR-CONDITIONING UNITS MUST HAVE INDIVIDUAL ENCLOSED CIRCUIT BREAKER.

S 3 1 **LOCATION MAP**
SCALE 1:1000 MTS



E 3 2 **TYPICAL C.O. AND TELEPHONE, DATA OUTLETS MOUNTING DETAILS**
SCALE N.T.S.



E 3 3 **SERVICE PEDESTAL DETAIL**
SCALE N.T.S.

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

PROFESSIONAL ELECTRICAL ENGINEER		PROJECT	PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
PRC NO.	PTR NO.		
	DATE	LOCATION	USTP PANAON, MISAMIS OCCIDENTAL
TIN	PLACE	OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	DRAWN BY:
AR. FERDINAND A. DUMPA	ATTY. ERWIN D. BUCIO	DR. AMBROSIO B. CULTURA II	GENERAL NOTES LOCATION MAP TYPICAL C.O. AND TELEPHONE, DATA OUTLETS MOUNTING DETAILS SERVICE PEDESTAL DETAIL	DATE DRAWN:
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM		FNT:

E3

FOR BIDDING

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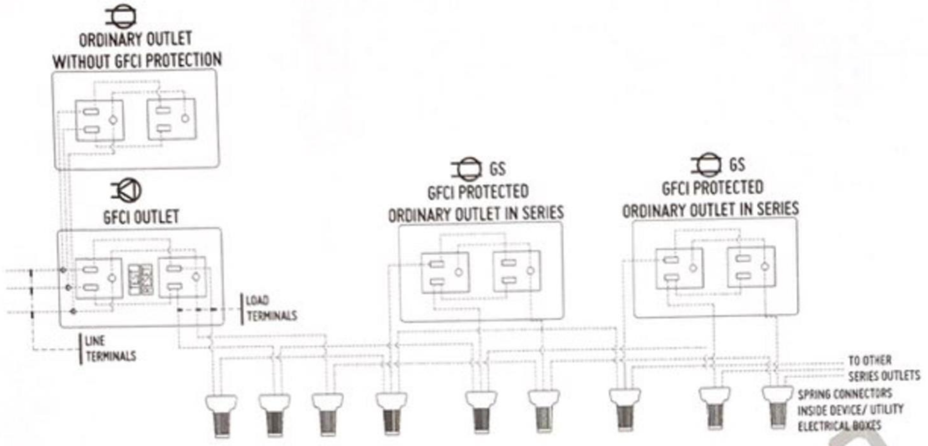
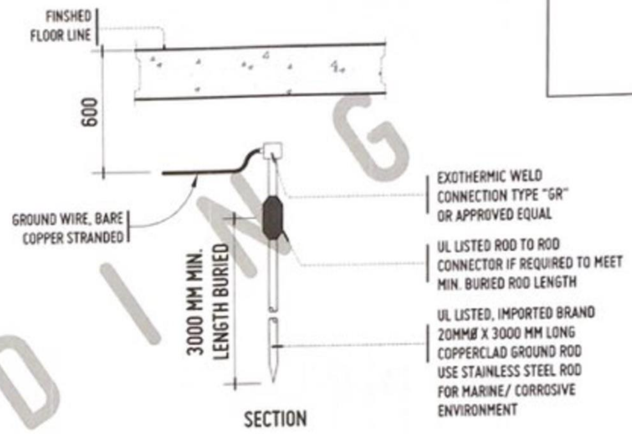
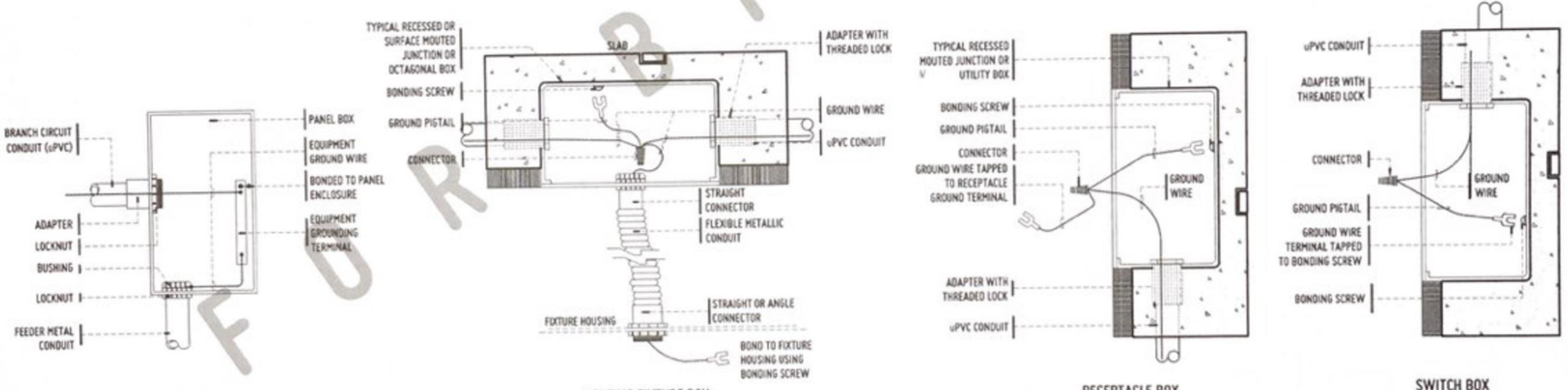
OFFICE OF THE BUILDING OFFICIAL



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



E
4 2
TYPICAL GROUND ROD DETAIL
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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SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY
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PROFESSIONAL ELECTRICAL ENGINEER
PRC NO. | PTR NO.
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APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
TYPICAL DETAILS

DRAWN BY:
DATE DRAWN:
PNT:

E4

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

PROJECT INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
ADDRESS USTP PANAON, MISAMIS OCCIDENTAL

PANEL PB

LOCATION GROUND FLOOR

BRANCH KAIC 10

VOLT: 220
PHASE: 2
MAINS: 1P 150 AT

AF	KAIC
150	10

DATE: 19-May-22
FEEDER:

NO OF SETS	THHN/THWN N	THHN/THWN Y	THHN/THWN X	THHN/THWN G	CONDUIT Φ	CONDUIT TYPE
1		60		14	50	PVC

FEEDER/CIRCUIT WIRES (SQMM)

CKT No.	CB POLES	CB TRIP	AF	LOAD DESCRIPTION	KW	Φ AMPS	NO. OF SETS	THHN/THWN N	THHN/THWN Y	THHN/THWN X	THHN/THWN G	CONDUIT Φ	CONDUIT TYPE
1	2	20	63	**PB-01 LIGHTING OUTLET GF**	1.8	8.18				3.5	3.5	20	PVC
				1 X 36W LED T8 FLUORESCENT LIGHT, DAYLIGHT, WITH FIXTURE BASE AND SUPPORT - 18	1.8								
2	2	20	63	**PB-02 LIGHTING OUTLET GF**	2.8	12.73				3.5	3.5	20	PVC
				1 X 20W LED SURFACE MOUNTED LIGHT - 19	1.8								
				1 X 13W LED RECESSED CEILING MOUNTED LIGHT - 8	0.6								
				1 X 8W LED T5 FLOURESCENT LIGHT, DAYLIGHT, WITH INDUSTRIAL HOUSING AND SUPPORT - 2	0.2								
				1 X 16W LED T8 FLOURESCENT LIGHT, DAYLIGHT, WITH INDUSTRIAL HOUSING AND SUPPORT - 2	0.2								
3	2	20	63	**PB-03 LIGHTING OUTLET 2F**	2.6	11.82				3.5	3.5	20	PVC
				1 X 32W LED T5 FLUORESCENT LIGHT, DAYLIGHT, WITH FIXTURE BASE AND SUPPORT - 22	2.2								
				1 X 13W LED RECESSED CEILING MOUNTED LIGHT - 4	0.4								
4	2	20	63	**PB-04 LIGHTING OUTLET 2F**	1.2	5.45				3.5	3.5	20	PVC
				1 X 13W LED RECESSED CEILING MOUNTED LIGHT - 12	1.2								
5	2	20	63	**PB-05 LIGHTING OUTLET 2F**	1.1	5.00				3.5	3.5	20	PVC
				1 X 13W LED RECESSED CEILING MOUNTED LIGHT - 11	1.1								
6	2	20	63	**PB-06 CONVENIENCE OUTLET GF**	1.8	8.18				3.5	3.5	20	PVC
				Weatherproof Duplex Universal Convenience Outlet - 3	1.08								
				Simplex Universal Convenience Outlet - 4	0.72								
7	2	20	63	**PB-07 CONVENIENCE OUTLET 2ND/F**	1.08	4.91				3.5	3.5	20	PVC
				Duplex Floor Universal Convenience Outlet - 2	0.72								
				Simplex Universal Convenience Outlet - 2	0.36								
8	2	20	63	**PB-08 CONVENIENCE OUTLET 2ND/F**	3.24	14.73				3.5	3.5	20	PVC
				Duplex Universal Convenience Outlet - 8	2.88								
				Simplex Universal Convenience Outlet - 2	0.36								
9	2	32	63	**PB-09 WM ACU-01 1HP**	1.00	4.55				5.5	5.5	20	PVC
				ACCU-01 OFFICE SPACE	1.00								
10	2	20	63	**PB-08 CONVENIENCE OUTLET 2ND/F**	3.42	15.55				3.5	3.5	20	PVC
				Duplex Floor Universal Convenience Outlet - 2	0.72								
				Duplex Universal Convenience Outlet - 5	1.8								
				Simplex Universal Convenience Outlet - 5	0.9								
11	2	20	63	**PB-11 CONVENIENCE OUTLET 2ND/F**	3.78	17.18				3.5	3.5	20	PVC
				Duplex Floor Universal Convenience Outlet - 4	1.44								
				Duplex Universal Convenience Outlet - 6	2.16								
				Simplex Universal Convenience Outlet - 1	0.18								

SCHEDULE OF LOADS - 1 OF 2

E5 1
SCALE N.T.S.

REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY
DEVELOPMENT UNIT

PROFESSIONAL ELECTRICAL ENGINEER
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PTR NO.
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PLACE

PROJECT PROPOSED
INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION USTP PANAON, MISAMIS OCCIDENTAL
OWNER UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

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PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
SCHEDULE OF LOADS - 1 OF 2

DRAWN BY:
DATE DRAWN:
FNT:

E5

12	2	20	63	**PB-12 CONVENIENCE OUTLET 2ND/F**	4.14	18.82				3.5	3.5	20	PVC
				Duplex Floor Universal Convenience Outlet - 2	0.72								
				Duplex Universal Convenience Outlet - 5	1.8								
				Ceiling Fan - 3	0.54								
				Simplex Universal Convenience Outlet - 6	1.08								
13	2	20	63	**PB-13 SERVER ROOM**	0.72	3.27				3.5	3.5	20	PVC
				Duplex Universal Convenience Outlet - 2	0.72								
14	2	32	63	**PB-14 FS ACU-04 2HP**	2	9.09				5.5	5.5	20	PVC
				ACCU-04 E-Library	2								
15	2	32	63	**PB-15 FS ACU-05 2HP**	2.00	5.25				5.5	5.5	20	PVC
				ACCU-05 General Reading	2.00								
16	2	32	63	**PB-16 FS ACU-06 2HP**	2.00	5.25				5.5	5.5	20	PVC
				ACCU-06 General Reading	2.00								
17	2	32	63	**PB-17 FS ACU-07 2HP**	2.00	5.25				5.5	5.5	20	PVC
				ACCU-07 General Reading	2.00								
18	2	32	63	**PB-18 WM ACU-02 1.5HP**	1.50	3.94				5.5	5.5	20	PVC
				ACCU-02 Librarian	1.50								
19	2	20	63	**SPARE**	0.00	0.00							
					0.00								
20	2	20	63	**SPARE**	0.00	0.00				5.5	5.5	20	PVC
					0.00								
				TOTAL	**38.18**	**159.16**							

DESIGN ANALYSIS

AVE P.F. 0.60	KW	DEMAND FACTOR	DEMAND KW	POWER FACTOR	DEMAND AMPS	% SPARE AMPS	TOTAL AMPERES
BIGGEST MOTOR	0	0	0	0	0	0	0
LIGHTS	9.5	0.6	5.70	1	25.91	0.00	25.91
C.O.	18.18	0.6	10.91	0.8	61.98	0.00	61.98
WATER HEATER	0	0	0	0	0	0	0
RANGE	0	0	0	0	0	0	0
CLOTHES DRYER	0	0	0	0	0	0	0
WASH MACHINE	0	0	0	0	0	0	0
AIRCON	10.50	0.6	6.30	0.8	35.80	25.00	44.74
MOTOR(CONT)	0	0	0	0	0	0	0
MOTOR(NON-CONT)	0	0	0	0	0	0	0
OTHERS 1	0	0	0	0	0	0	0
OTHERS 2	0	0	0	0	0	0	0
OTHERS 3	0	0	0	0	0	0	0
TOTAL	38.18	0.60	22.91		123.68		132.63

E
6 1

SCHEDULE OF LOADS - 2 OF 2

SCALE NTS

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REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
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APPROVED BY:
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PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
SCHEDULE OF LOADS - 2 OF 2

DRAWN BY:
DATE DRAWN:
FNT:

E6

THHN/THWN CODE AND CONDUIT SIZE

PHASE WIRE SQMM (AWG)	AMPS	GROUND WIRE SQMM (AWG)	2-WIRE + GROUND		3-WIRE + GROUND		4-WIRE + GROUND		2-WIRE + GROUND		3-WIRE + GROUND		4-WIRE + GROUND	
			uPVC		uPVC		uPVC		METAL		METAL		METAL	
			CODE	SIZE mm ϕ	CODE	SIZE mm ϕ	CODE	SIZE mm ϕ	CODE	SIZE mm ϕ	CODE	SIZE mm ϕ	CODE	SIZE mm ϕ
3.5(#12)	25	3.5(#12)	XGP3.5	20	YGP3.5	20	NYGP3.5	20	XGM3.5	15	YGM3.5	15	NYGM3.5	15
5.5(#10)	30	5.5(#10)	XGP5.5	20	YGP5.5	32	NYGP5.5	32	XGM5.5	15	YGM5.5	20	NYGM5.5	20
8.0(#8)	40	5.5(#10)	XGP8.0	25	YGP8.0	32	NYGP8.0	32	XGM8.0	20	YGM8.0	25	NYGM8.0	25
14(#6)	55	5.5(#10)	XGP14	32	YGP14	32	NYGP14	32	XGM14	25	YGM14	25	NYGM14	32
22(#4)	70	8.0(#8)	XGP22	32	YGP22	40	NYGP22	50	XGM22	25	YGM22	32	NYGM22	40
30(#2)	90	8.0(#8)	XGP30	40	YGP30	50	NYGP30	50	XGM30	32	YGM30	40	NYGM30	40
38(#1)	100/125	8.0(#6)	XGP38	40	YGP38	50	NYGP38	63	XGM38	32	YGM38	40	NYGM38	50
50(#1/0)	145	14(#6)	XGP50	50	YGP50	63	NYGP50	63	XGM50	40	YGM50	50	NYGM50	50
60(#2/0)	160	14(#6)	XGP60	50	YGP60	63	NYGP60	63	XGM60	40	YGM60	50	NYGM60	50
80(#3/0)	195	14(#6)	XGP80	50	YGP80	63	NYGP80	63	XGM80	40	YGM80	50	NYGM80	50
100(#4/0)	220	22(#4)	XGP100	63	YGP100	63	NYGP100	75	XGM100	50	YGM100	50	NYGM100	65
125(250)	255	22(#4)	XGP125	63	YGP125	75	NYGP125	90	XGM125	50	YGM125	65	NYGM125	65
150(300)	280	22(#4)	XGP150	63	YGP150	75	NYGP150	90	XGM150	50	YGM150	65	NYGM150	80
200(400)	330	30(#2)	XGP200	75	YGP200	90	NYGP200	90	XGM200	65	YGM200	80	NYGM200	80
250(500)	375	30(#2)	XGP250	90	YGP250	90	NYGP250	100	XGM250	80	YGM250	80	NYGM250	90
400(800)	495	30(#2)	XGP400	100	YGP400	110	NYGP400	5"	XGM400	80	YGM400	90	NYGM400	100
500(1000)	450	38(#1)	XGP500	110	YGP500	5"	NYGP500	5"	XGM500	90	YGM500	100	NYGM500	-

NOTES:

X	- TWO WIRES (L-R OR L-N), THHN/THWN
Y	- THREE WIRES (THREE PHASE), THHN/THWN
N	- NEUTRAL WIRE, SAME SIZE AS PHASE WIRE OR AS NOTED IN THE PANEL SCHEDULE
G	- GROUND WIRE, REFER SIZE TO PEC FOR PARALLEL RUNS
M	- METAL CONDUIT, IMC, RSC OR EMT
P	- uPVC CONDUIT

E
6 1
WIRE CODE
SCALE NTS

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CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

PROFESSIONAL ELECTRICAL ENGINEER	
PRC NO.	PTR NO.
	DATE
TIN	PLACE

PROJECT	PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION	USTP PANAON, MISAMIS OCCIDENTAL
OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	DRAWN BY:
AR. FERDINAND [illegible] GUMPA	ATTY. ERWIN B. BUCIS	DR. AMBROS[illegible] B. CULTURA II	WIRE CODE	DATE DRAWN:
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM		PNT:

E7

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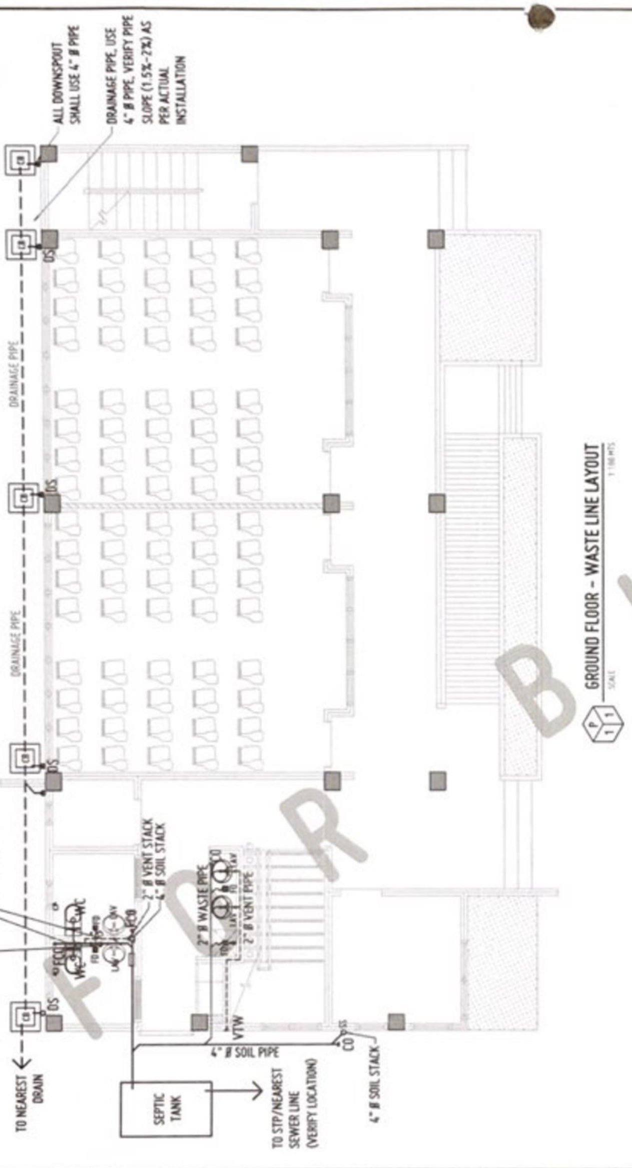
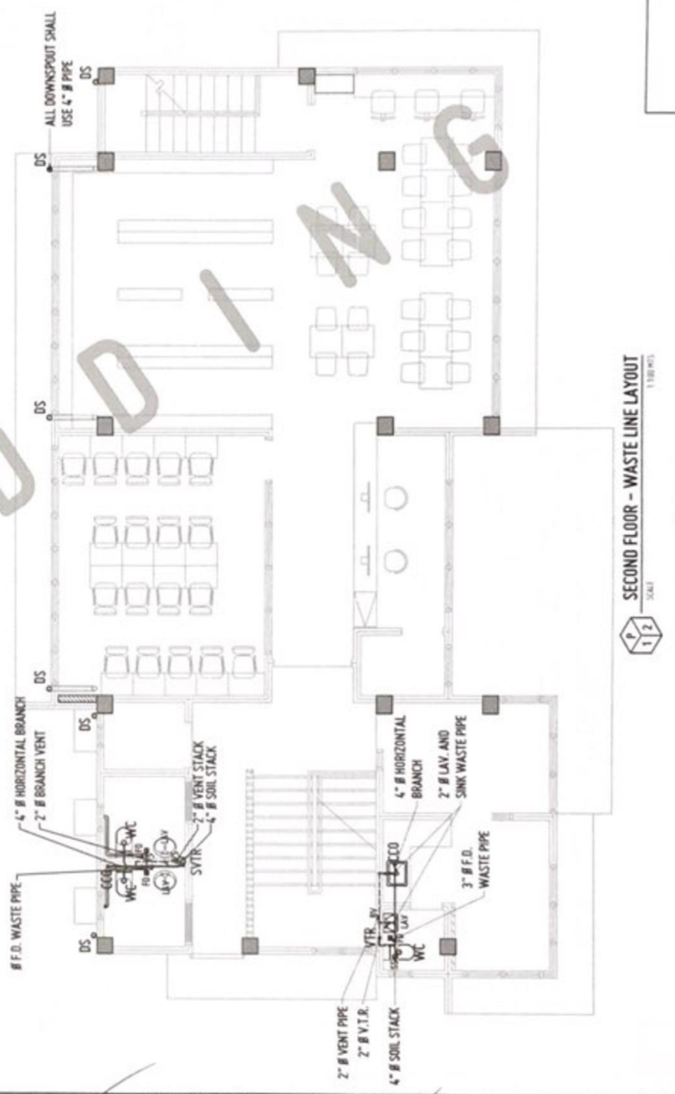
FOR BIDDING



GROUND FLOOR - WASTE LINE LAYOUT

SCALE 1:100 MTS

P 1 1



SECOND FLOOR - WASTE LINE LAYOUT

SCALE 1:100 MTS

P 1 2

USTP

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

MASTER PLUMBER		PROJECT	PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
PRC NO.	PTR NO.		
	DATE	LOCATION	USTP PANAON, MISAMIS OCCIDENTAL
TIN	PLACE	OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:
AR. FERDINAND A. ODIMPA	ATTY. ERWIN B. BUCIO	DR. AMBROSIO B. CULTURA II
DIRECTOR, INFRASTR. PLANNING & FACILITY DEVELOPMENT OFFICE	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
GROUND FLOOR WASTE LINE LAYOUT
SECOND FLOOR WASTE LINE LAYOUT

DRAWN BY:
DATE DRAWN:
FNT:

P1

REPUBLIC OF THE PHILIPPINES
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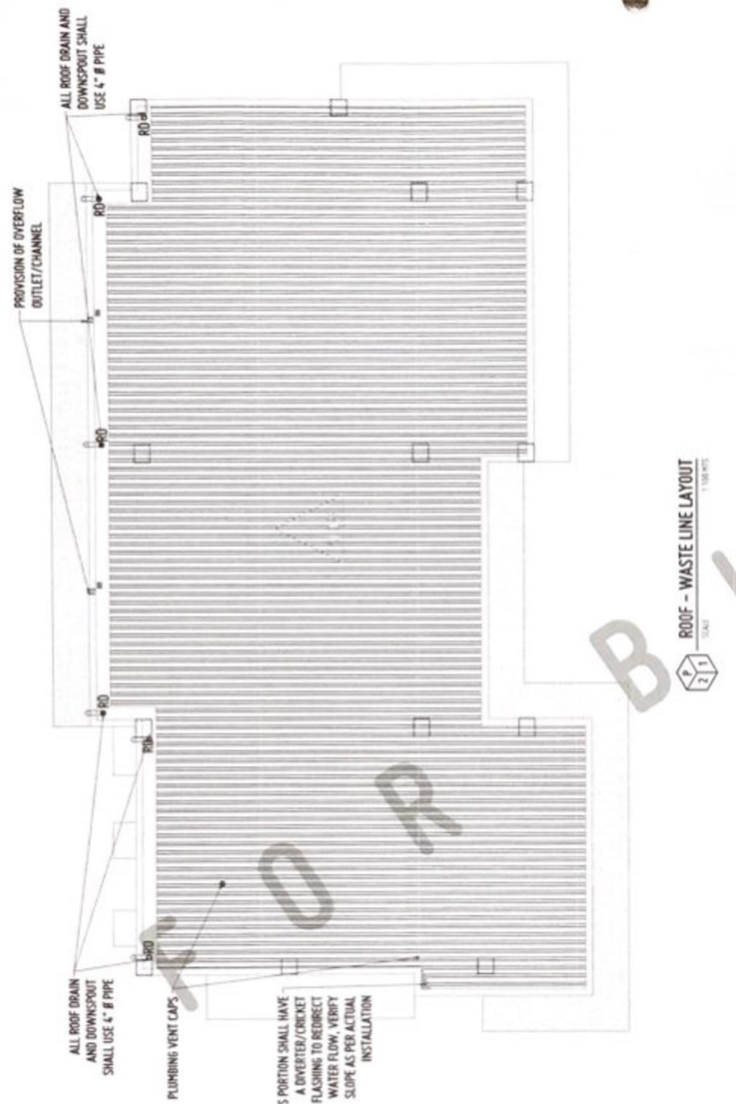
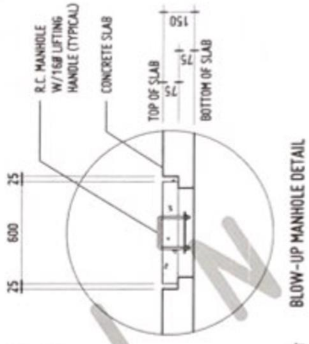
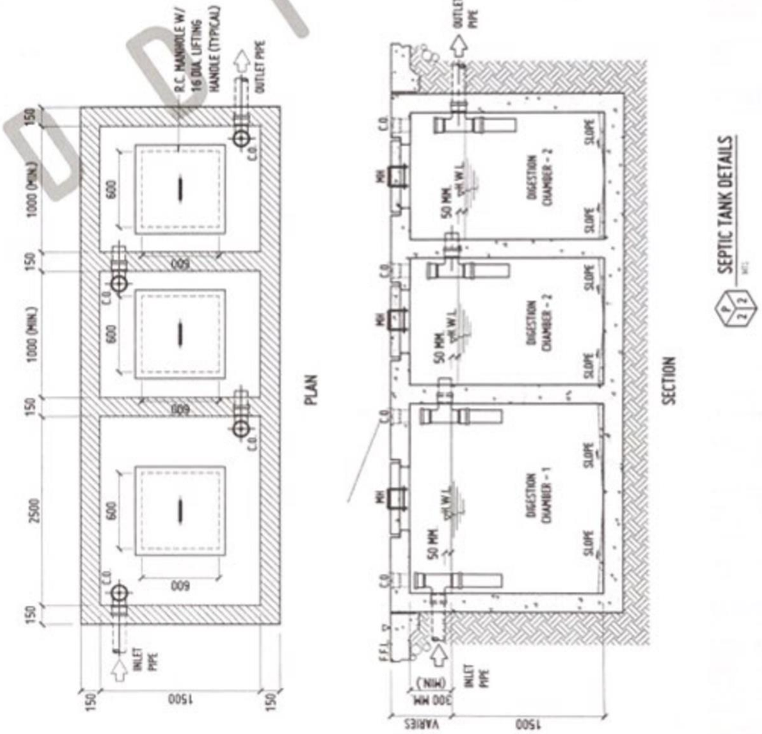


ROOF – WASTE LINE LAYOUT

P2 1



BLOW-UP MANHOLE DETAIL



SEPTIC TANK DETAILS

P2 2

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CAMPUS INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT	MASTER PLUMBER		
	PRC NO.	PTR NO.	
		DATE	
	TIN	PLACE	

PROJECT	PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION	USTP PANAON, MISAMIS OCCIDENTAL
OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
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RECOMMENDING APPROVAL:
ATTY. ERWIN B. BUCIO
VICE PRESIDENT FOR ADMINISTRATION & LEGAL AFFAIRS

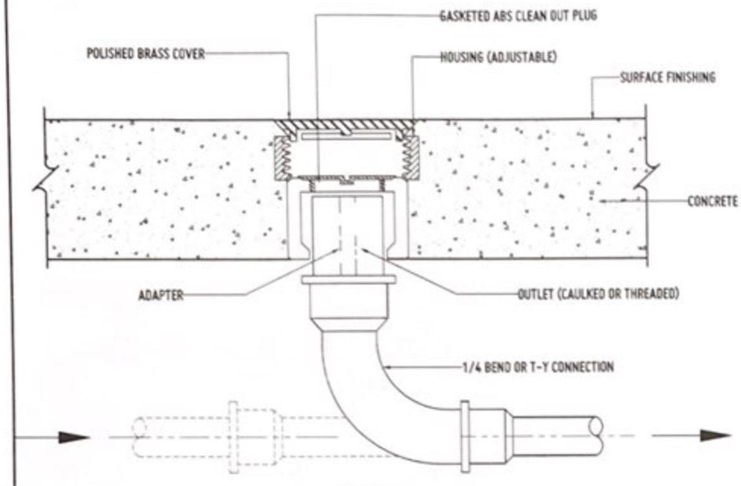
APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
ROOF WASTE LINE LAYOUT
SEPTIC TANK DETAILS

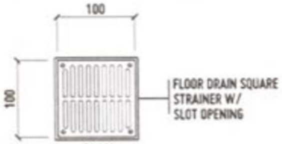
DRAWN BY:
DATE DRAWN:
PMT:

P2

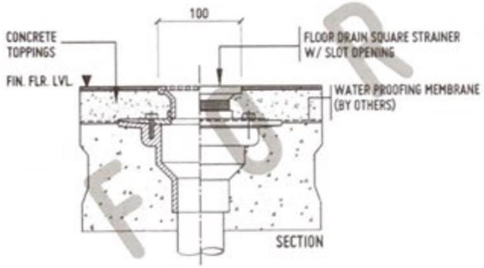
FOR BIDDING



FLOOR CLEANOUT

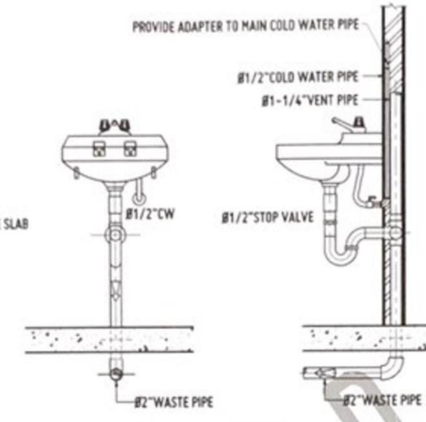


PLAN

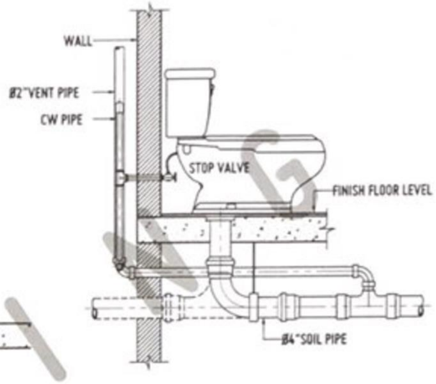


SECTION

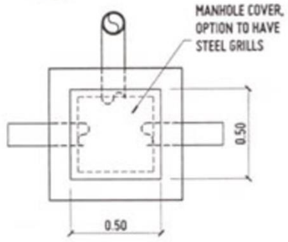
FLOOR DRAIN DETAIL



LAVATORY



WATER CLOSET WITH FLUSH TANK (WC)



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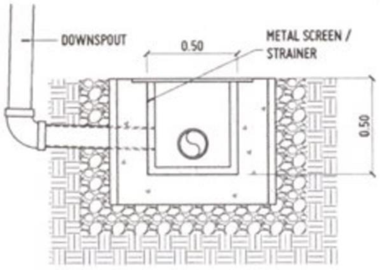
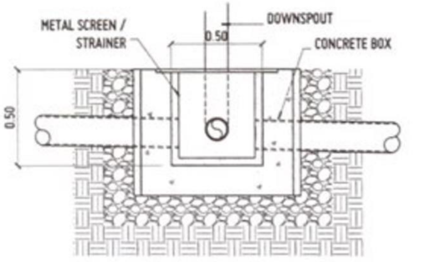


SECTION A



SECTION B

P 3 1 TYPICAL DETAILS

NTS

P 3 2 CATCH BASIN DETAILS

NTS

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

GENERAL NOTES:

IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE FITTING, VALVE AND APPURTENANCE. ALL SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED IF NECESSARY TO COMPLETE THE SYSTEM TO THE SATISFACTION OF THE OWNER

ALL PLUMBING WORKS SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINES BUILDING CODE, NATIONAL PLUMBING CODE, RULES AND REGULATION FOR SANITATION AND PLUMBING ORDINANCE OF THE MUNICIPALITY OR CITY WHERE THE PROJECT IS LOCATED.

ALL PLUMBING SYSTEM SHALL BE DONE UNDER THE SUPERVISION OF A DULY LICENSED SANITARY ENGINEER OR A MASTER PLUMBER

COORDINATE THE DRAWING WITH OTHER RELATED DRAWINGS AND SPECIFICATION. THE ARCHITECT AND MASTER PLUMBER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN

ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS, ANY RELOCATIONS REQUIRED FOR PROPER EXECUTION OF OTHER TRADE SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECT OR ENGINEER

PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTOR

ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 2% UNLESS OTHERWISE SPECIFIED

SIZE OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT THE SITE, COORDINATE THE WORKS WITH THE SEWER LINE EFFLUENT DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT, UNLESS OTHERWISE SPECIFIED

ALL SEWER LINES SHALL BE PVC (POLYVINYL CHLORIDE) PIPES WITH SIZES SHOWN IN THE DRAWINGS

ALL WATER LINES SHALL BE OF PPR PIPES WITH SIZES SHOWN IN THE DRAWINGS

UNDERGROUND STORM DRAIN PIPES PASSING UNDER THE FLOOR SLAB ON FILL SHALL BE PVC PIPES WITH SIZES SHOWN IN THE DRAWINGS

NO SANITARY SEWER PIPES SHALL BE DIRECTLY CONNECTED TO ANY STORM DRAINAGE PIPE

ALL JOINTS MUST BE SEALED WITH PVC SOLVENT CEMENT TO PREVENT WATER LEAKAGE

ALL FIXTURES SHALL BE INDIVIDUALLY VENTED

VENT STACK THRU WALL (VSTW) PIPE SHALL BE UNDER THE BOTTOM OF RR

ALL COST FOR THE PROVISION AND INSTALLATION OF THE SEPTIC TANK INCLUDING THE OUTLET PIPE CONNECTION TO THE STREET MAIN SEWER SHALL BE CHARGES TO THE LAND DEVELOPMENT COSTS OF THE PROJECT

MAKE SURE THAT THE NEW INSTALLED SEPTIC TANK IS AT LEAST HALF FILLED WITH WATER TO PREVENT POSSIBLE FLOATING DUE TO HYDRAULIC PRESSURE INTRODUCED BY THE POSSIBLE PRESENCE OF GROUND WATER

NO SEPTIC TANK SHALL BE CONSTRUCTED UNDER THE BUILDING

THE INVERT OF THE INLET PIPE OF A SEPTIC TANK SHALL BE AT A LEVEL NOT LESS THAN 50.8mm (2") ABOVE THE INVERT OF THE OUTLET PIPE

TO PREVENT CONTAMINATION OF UNDERGROUND WATER SOURCE NO SEPTIC TANK SHALL BE CONSTRUCTED LESS THAN 1.20m ABOVE THE WATER TABLE LEVEL

ALL PIPE SIZE ARE IN MILLIMETERS OR INCHES AND ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

MINIMUM SEWAGE PIPE SIZE SHALL BE AS FOLLOWS:

SOIL PIPE	4"Ø	100 MM Ø
WASTE PIPE	2"Ø	50 MM Ø
VENT PIPES	2"Ø	50 MM Ø
DOWNSPOUT	2"Ø	50 MM Ø

ALL PLUMBING INSTALLATION INCLUDED HEREIN SHALL BE UNDER THE DIRECT SUPERVISION OF A DULY REGISTERED AND LICENSED MASTER PLUMBER

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

MASTER PLUMBER

PRC NO. | PTR NO.

DATE

TIN | PLACE

PROJECT: PROPOSED
INTEGRATED TECHNOLOGY AND COMMUNICATION HUB

LOCATION: USTP PANAON, MISAMIS OCCIDENTAL

OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINAND N. DUMPA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. ERWIN B. BUCIO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

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

SHEET CONTENTS:
TYPICAL DETAILS
CATCH BASIN DETAILS

DRAWN BY:

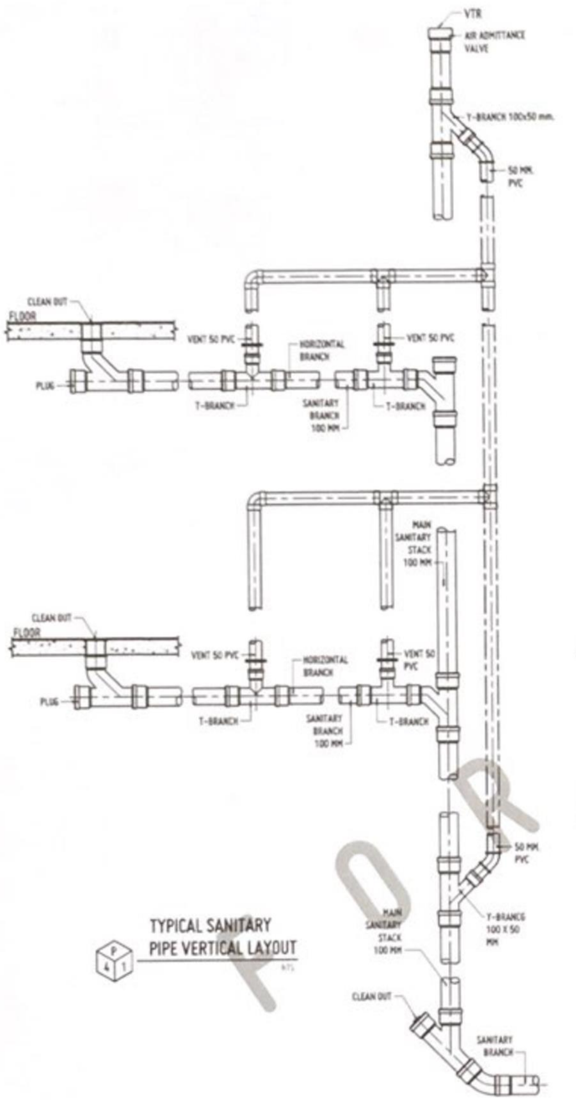
DATE DRAWN:

FNT:

P3

FOR BIDDING

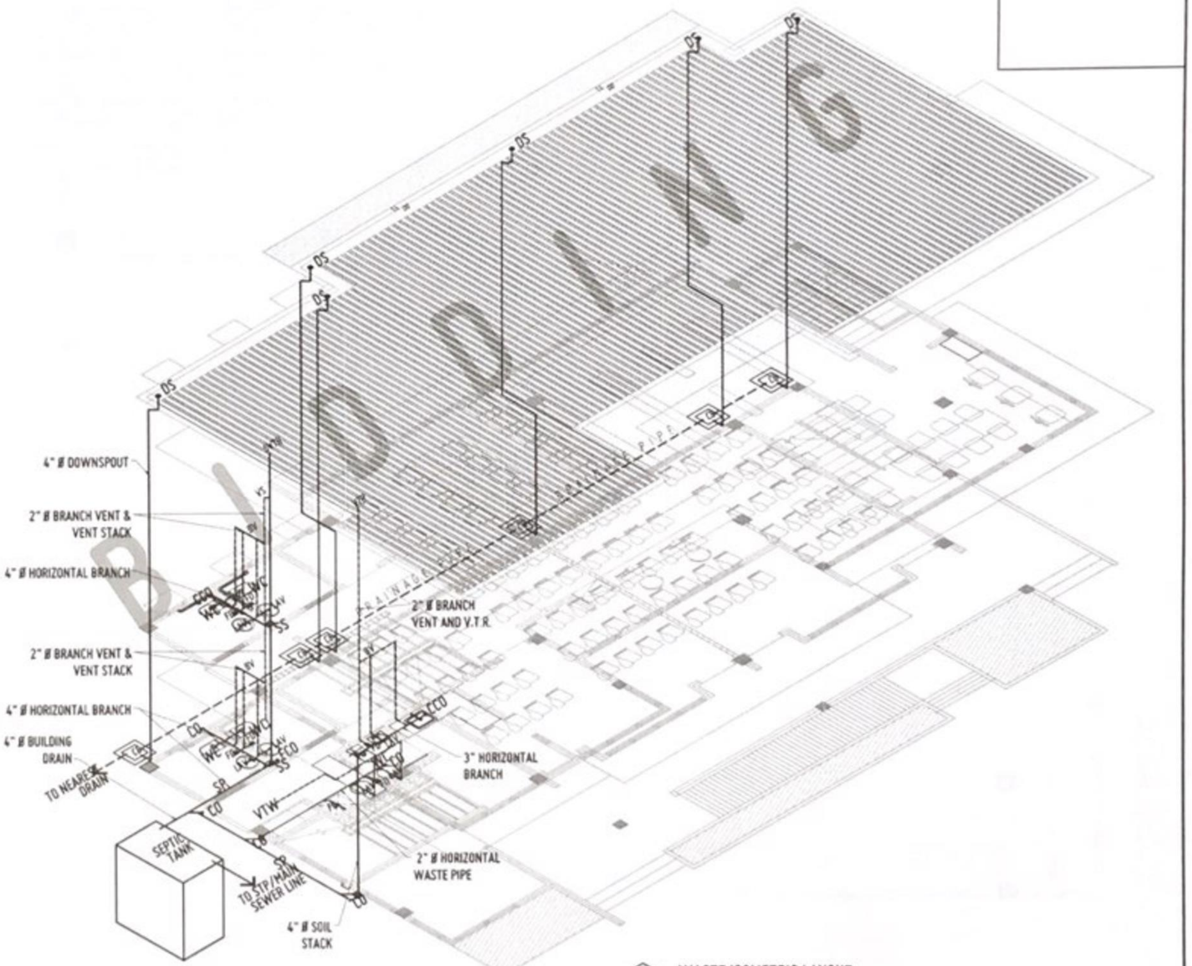
REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



TYPICAL SANITARY PIPE VERTICAL LAYOUT

P 4 1

NTS



WASTE ISOMETRIC LAYOUT

P 4 2

SCALE 1:100 MTS

FOR BIDDING

USTP

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

MASTER PLUMBER	
PRC NO.	PTR NO.
	DATE
TIN	PLACE

PROJECT: PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINAND A. DUMPA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. ERWIN B. BUCIO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

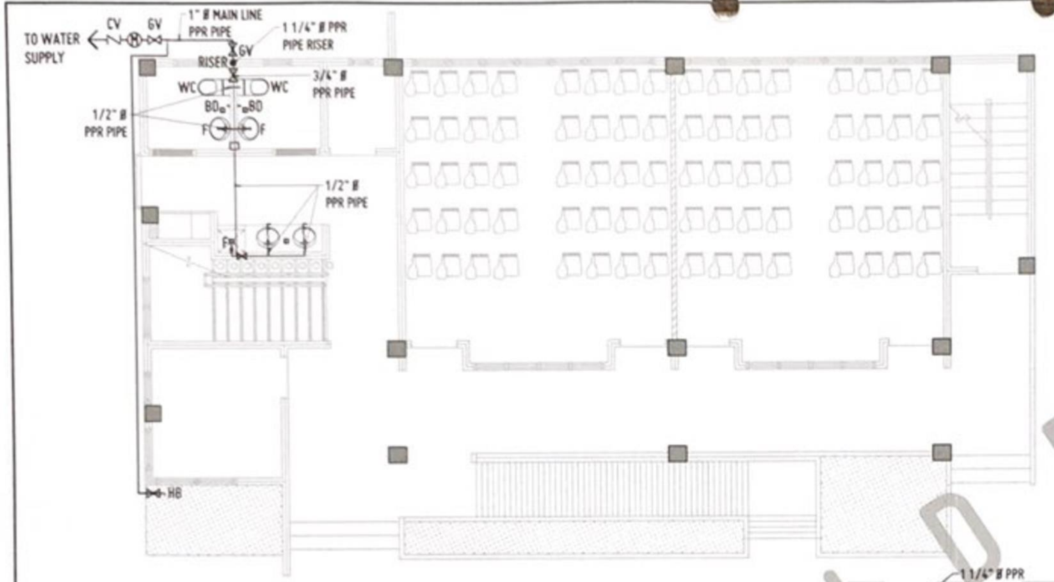
APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
TYPICAL PIPE VERTICAL LAYOUT
WASTE ISOMETRIC LAYOUT

DRAWN BY:
DATE DRAWN:
PNT:

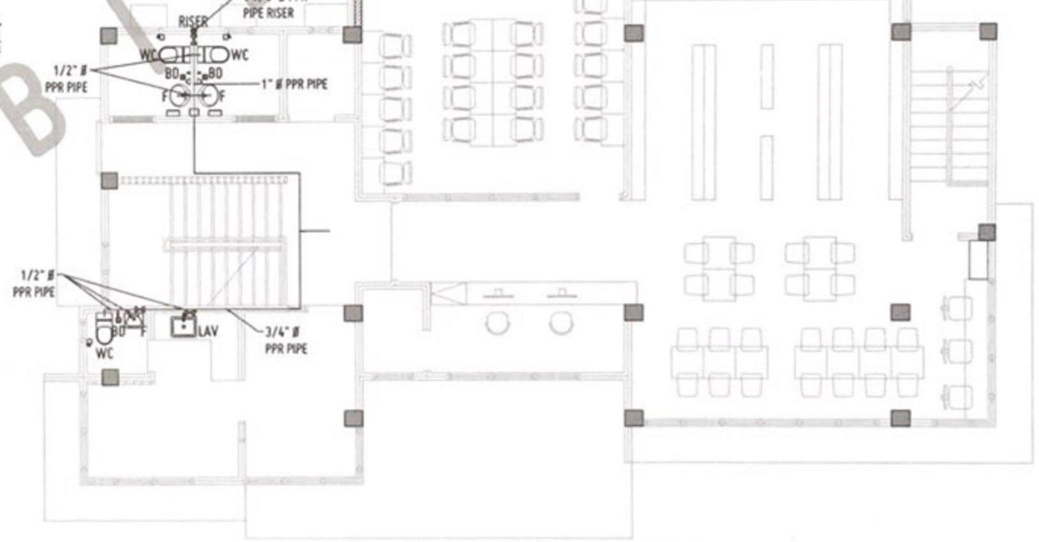
P4

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



GROUND FLOOR – WATER LINE LAYOUT

P 5 1



SECOND FLOOR – WATER LINE LAYOUT

P 5 2

FOR BIDDING

USTP

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

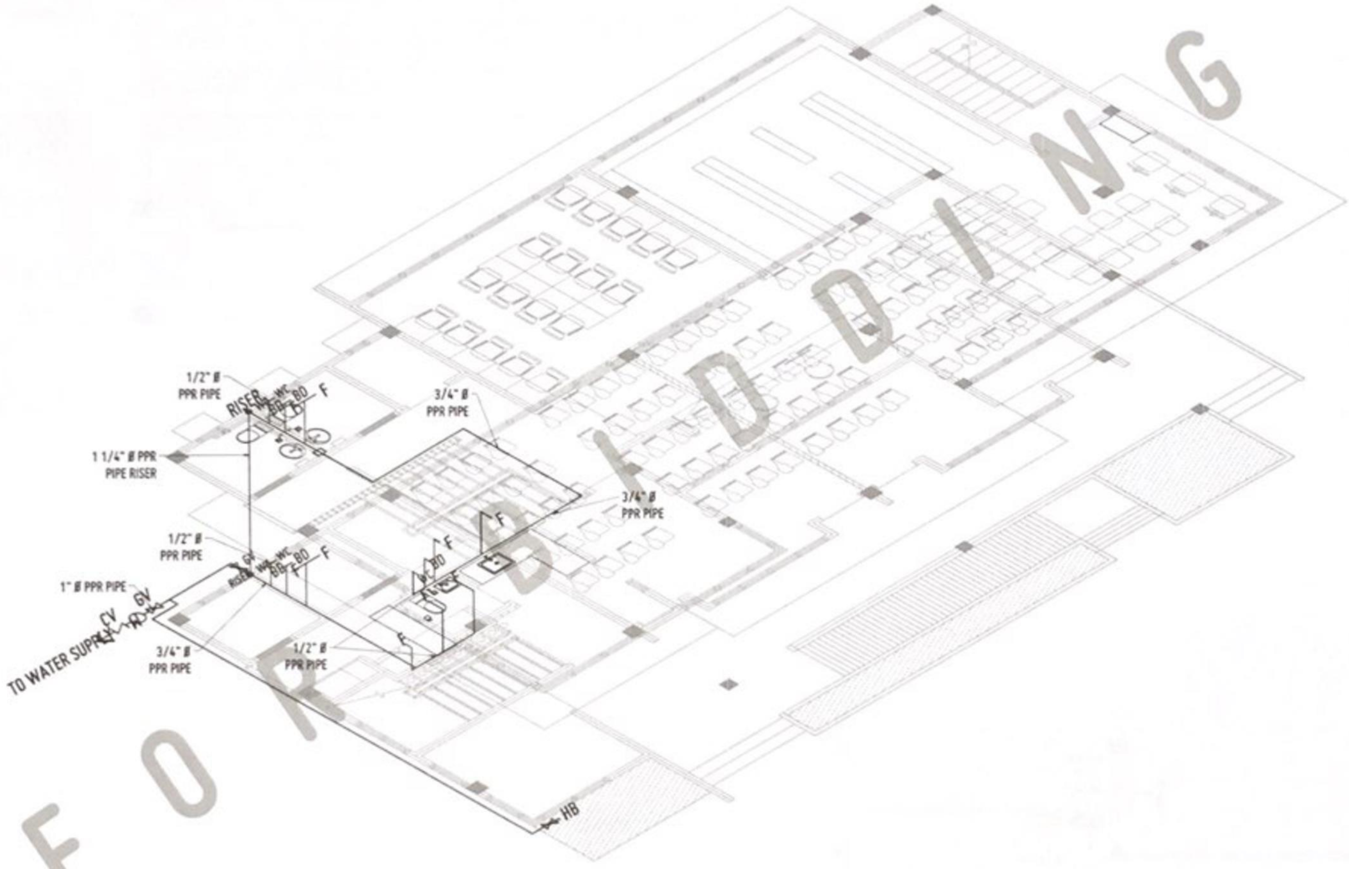
MASTER PLUMBER		PROJECT	PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
PRC NO.	PTR NO.		
	DATE	LOCATION	USTP PANAON, MISAMIS OCCIDENTAL
TIN	PLACE	OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	DRAWN BY:
AR. FERDINAND A. DUMPA	ATTY. ERWIN B. BUCIO	DR. AMBROSIO B. CULTURA II	GROUND FLOOR WATERLINE LAYOUT SECOND FLOOR WATERLINE LAYOUT	DATE DRAWN:
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM		FNT:

P5

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

FOR BIDDING



P 6 1 **WATER LINE ISOMETRIC LAYOUT**

SCALE 1:100 MTS

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CAGAYAN DE ORO CAMPUS
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MASTER PLUMBER	
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	DATE
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LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
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DIRECTOR, INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT OFFICE

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APPROVED BY:
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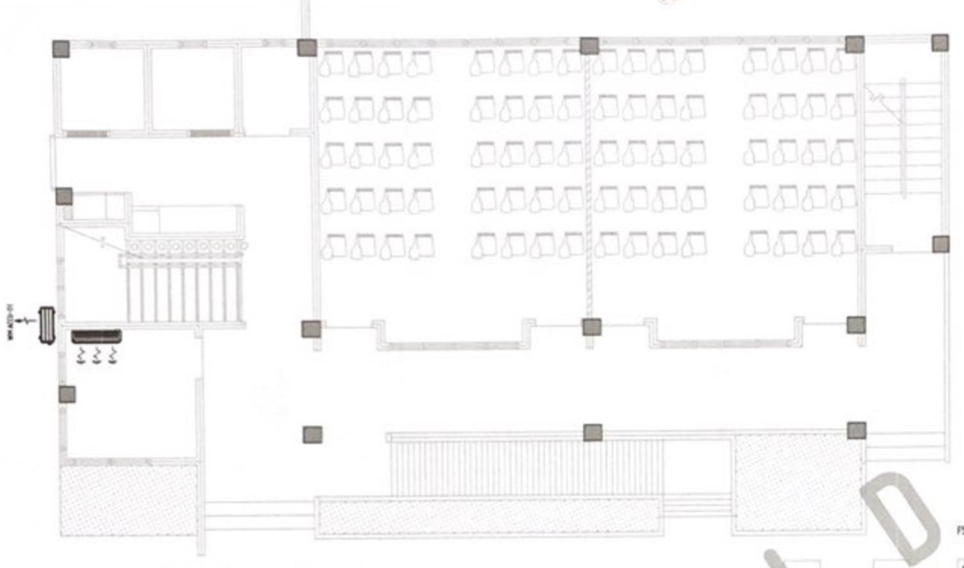
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
WATERLINE ISOMETRIC LAYOUT

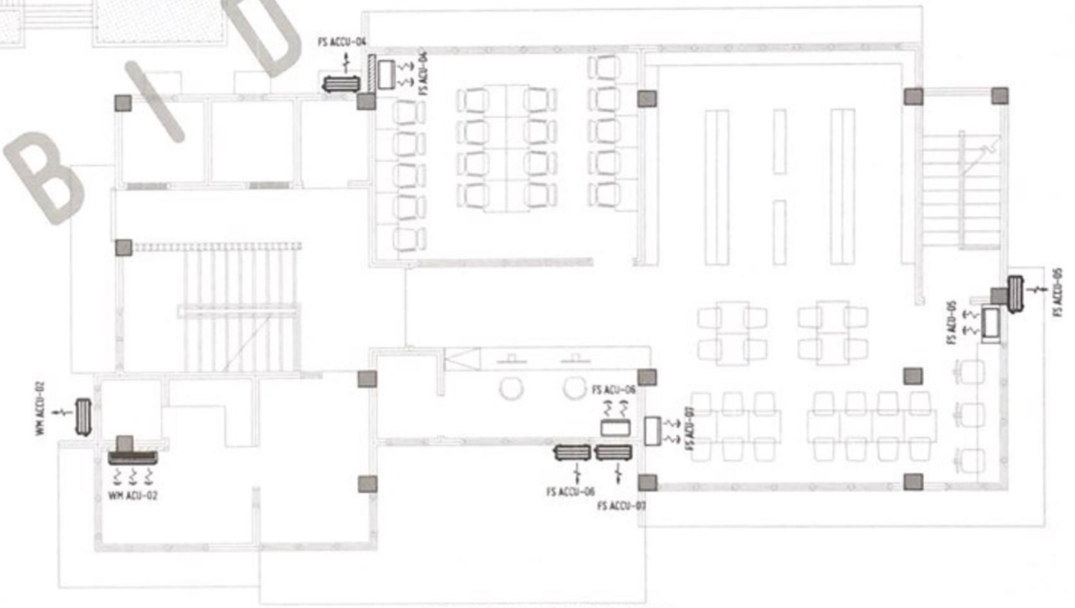
DRAWN BY:
DATE DRAWN:
FNT:

P6

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



GROUND FLOOR - ACU LAYOUT
SCALE 1:100 MTS



SECOND FLOOR - ACU LAYOUT
SCALE 1:100 MTS

FOR BIDDING

GENERAL NOTES:

1. FFL = FINISH FLOOR LINE. VERIFY FLOOR FINISHES/MATERIALS.
2. ALL INTERIOR PARTITIONS AND FURNITURE LAYOUT ARE INDICATIVE ONLY AND MAY CHANGE. VERIFY INTERIOR DESIGN DRAWINGS.
3. ALL LANDSCAPE ARCHITECTURE ELEMENTS ARE INDICATIVE ONLY AND MAY CHANGE. VERIFY LANDSCAPE ARCHITECTURE DRAWINGS.
4. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TO GOVERN.
5. INCASE OF DISCREPANCY IN THE FIGURES AND DRAWINGS THE MATTER SHALL BE SUBMITTED IMMEDIATELY TO THE ARCHITECT BEFORE ADJUSTMENTS ARE TO BE MADE.
6. VERIFY ACTUAL TECHNICAL SITE CONDITIONS.
7. VERIFY ACTUAL ELEVATION MARKS AND LOT BOUNDARIES PRIOR TO COMMENCING WORK.
8. ALL WORKS HEREIN SHALL BE DONE UNDER THE STRICT SUPERVISION OF DULY LICENSED AND EXPERIENCED ARCHITECT/ENGINEER.
9. LOT AND BUILDING BOUNDARIES SHOULD BE SUPPORTED BY RETAINING WALLS AND FENCES. VERIFY EXISTING HEIGHTS, ELEVATIONS AND OTHER SITE CONDITIONS.
10. THE GENERAL CONTRACTOR, SUB-CONTRACTORS INCLUDING SPECIALTY CONTRACTORS, SHALL SUBMIT PROPER SHOP DRAWINGS INCLUDING MATERIALS SAMPLE PRIOR TO INSTALLATIONS FOR ARCHITECT'S APPROVAL.

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

PROJECT: PROPOSED INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
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DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. ERWIN B. BUCIO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

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

SHEET CONTENTS:
GROUND FLOOR ACU LAYOUT
SECOND FLOOR ACU LAYOUT

DRAWN BY:
DATE DRAWN:
FNT:

M1

REPUBLIC OF THE PHILIPPINES
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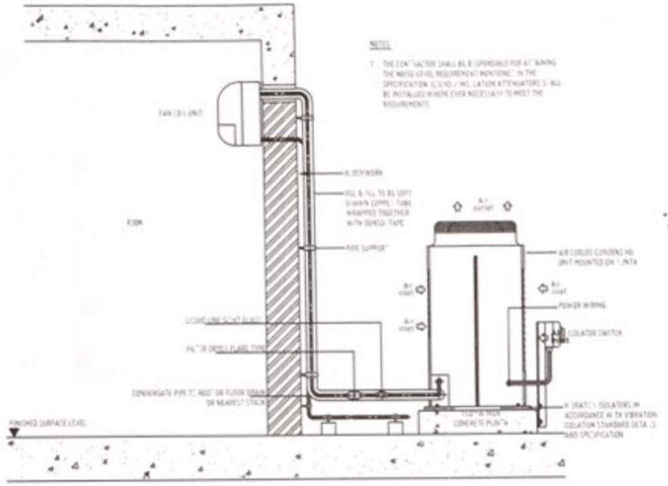
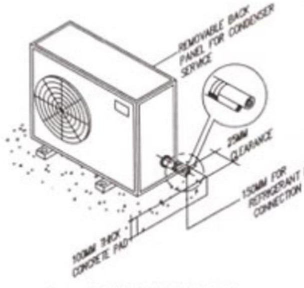
FOR BIDDING



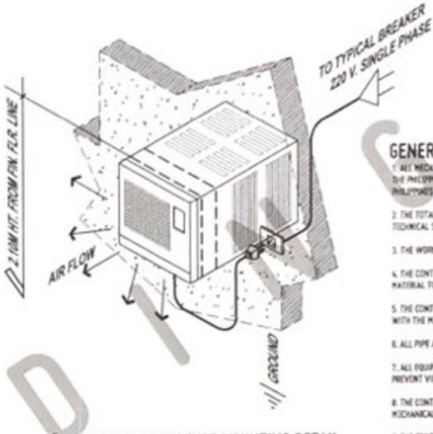
NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ATTAINING THE NOISE LEVEL REQUIREMENT MENTIONED IN THE SPECIFICATION. SOUND / INSULATION ATTENUATORS SHALL BE INSTALLED WHERE EVER NECESSARY TO MEET THE REQUIREMENTS.

M 2 1 **TYPICAL SPLIT-TYPE CONNECTION DETAIL**
NTS



M 2 2 **ACCU MOUNTING DETAIL**
NTS



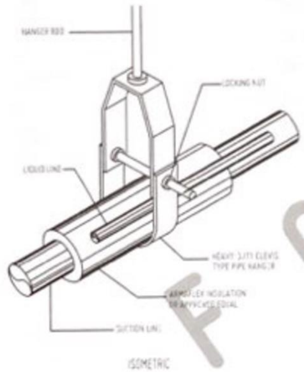
M 2 3 **ACU WINDOW TYPE MOUNTING DETAIL**
NTS

GENERAL NOTES :

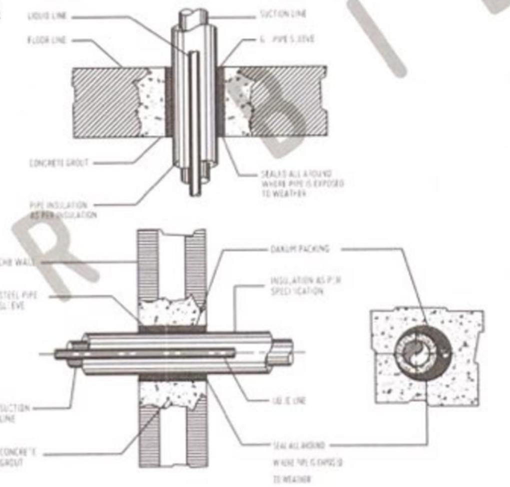
1. ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE PHILIPPINES NATIONAL BUILDING CODE, PSME CODE, PSVARE ASHRAE, SMACNA, FIRE CODE OF THE PHILIPPINES AND OTHER REGULATION OF THE LOCAL COMMUNITY.
2. THE TOTAL SCOPE OF WORKS SHALL INCLUDE ALL WORKS DESCRIBED IN THE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

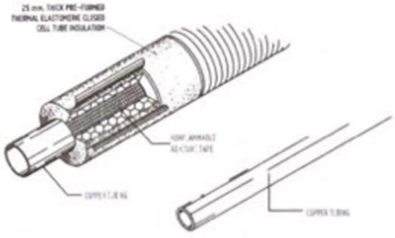
1. REFRIGERANT PIPES SHALL BE INTERNALLY CLEANED BY SWABBING WITH CLEAN COTTON CLOTH TO REMOVE ALL DUST, BURRS, AND OTHER MISCELLANEOUS DIRT.
2. WHILE SOLDERING JOINTS, A SWEEP OF INERT NITROGEN GAS SHOULD BE PASSED THROUGH PIPES TO PREVENT OXIDATION DEPOSITS INSIDE.
3. FITTINGS
   - A. USE STANDARD 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 310C 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 142KPa 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 CHARGES AS STATED IN ITEM 4 ABOVE WHILE WAITING FOR FINAL CONNECTION TO EQUIPMENT. INSULATE SUCTION PIPING ONLY AFTER PROPER LEAK TESTING.



M 2 4 **REFRIGERANT PIPE HANGER DETAIL**
NTS



M 2 5 **REFRIGERANT PIPE THRU WALL DETAIL**
NTS



NOTE

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

M 2 6 **REFRIGERANT PIPE INSULATION DETAIL**
NTS

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CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

PROFESSIONAL MECHANICAL ENGINEER
PRC NO.
PTR NO.
DATE
TIN
PLACE

PROJECT: PROPOSED
INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINAND A. DUMPA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. ERWIN B. BUCIO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

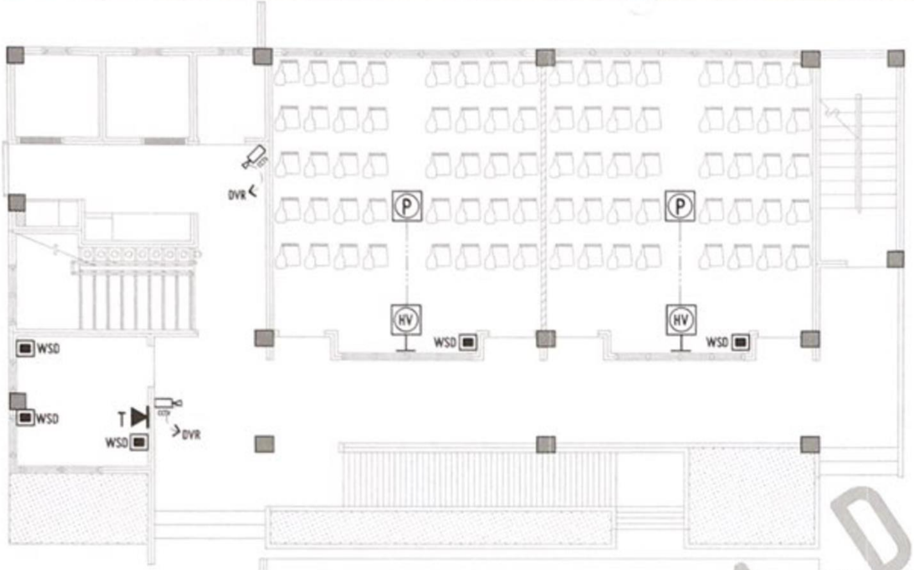
APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
TYPICAL DETAILS

DRAWN BY:
DATE DRAWN:
FNT:

M2

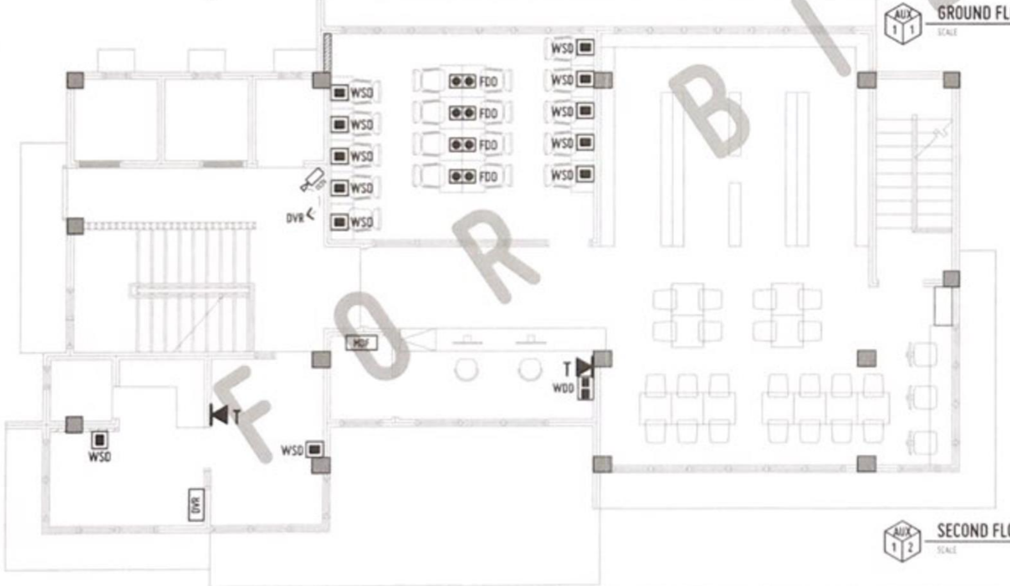
FOR BIDDING



GROUND FLOOR – ELECTRONICS LAYOUT

AUX 1 | 1

SCALE 1:100 MTS



SECOND FLOOR – ELECTRONICS LAYOUT

AUX 1 | 2

SCALE 1:100 MTS

1. SYMBOL

☐☐ CCTV	CLOSED CIRCUIT TELEVISION, DOME TYPE PROVIDE SIGNAL CABLE & POWER CABLE FOR EACH CAMERA, WIRING IS SUBJECT TO MANUFACTURER'S STANDARD.
360° CCTV	CLOSED CIRCUIT TELEVISION, REVOLVING 360°
CPB	CCTV WIRING PULLBOX WITH POWER SUPPLY
DVR	DIGITAL VIDEO RECORDER

2. MINIMUM CONDUIT SHALL BE 20MM (3/4")Ø. USE IMC FOR ALL EXPOSED CONDUIT OR INSIDE DRYWALL AND PVC FOR ALL CONCRETE EMBEDDED CONDUIT.
3. VERIFY EXACT NUMBER OF CCTV CAMERA WITH LAYOUT.
4. VERIFY AND/OR COORDINATE WITH OWNER/USER THE EXACT LOCATION OF DVR PRIOR TO LAYOUT OF CONDUIT.
5. BOND ALL CPB, CABLE TRAY USING 5.5MM² GROUND WIRE AND BOND TO IBTB
6. CCTV SYSTEM AND WIRING SCHEDULE.

C	CONDUIT SIZE, MM²,(INCHØ)	
	METAL	uPVC
1	20	25 (3/4)
2	20	25 (3/4)
4	25	32 (1)
8	32	40 (1- 1/4)
10	40	50 (1- 1/2)
15	50	63 (2)

CONDUIT SIZE MMØ (INCHØ)		NUMBER OF TEL/DATA CAT5e CABLE			
METAL	uPVC	CAT 5 OR 6e 4 PAIR	25 -PAIR	50 -PAIR	100 -PAIR
20	25 (3/4)	4	1	-	-
25	32 (1)	6	1	-	-
32	40 (1-1/4)	12	3	1	-
40	50 (1-1/2)	16	4	1	1
50	63 (2)	27	7	2	1
60	75 (2-1/2)	39	10	4	1
80	90 (3)	60	15	6	3
90	100 (3-1/2)	81	20	8	4
100	110 (4)	104	26	11	6

NOTE:
CABLE SHALL HAVE 1000MM LOCK SLACK
INSIDE THE CABINET OR PULLBOX
USE ONLY LONG ELBOW FOR ALL 90° CONDUIT BEND.

LEGEND

T	SINGLE TELEPHONE WALL OUTLET, RJ11
WSD	SINGLE UNIVERSAL DATA WALL OUTLET. RJ45
WDD	DUPLEX UNIVERSAL DATA WALL OUTLET. RJ45
FDO	DUPLEX UNIVERSAL DATA FLOOR OUTLET. RJ45
IDF	INTERMEDIATE DISTRIBUTION FRAME
MDF	MAIN DISTRIBUTION FRAME
CTB	CABLE TV BOX
TCB	TELEPHONE AND CABLE TV BOX
P	PROVISION FOR HDMI/VGA CABLING FOR OVERHEAD PROJECTOR, VERIFY EXACT LOCATION WITH ARCHITECT.
HV	HDMI & GA WALL OUTLET IN SINGLE PLATE INTERCONNECT WITH THE OVERHEAD PROJECTOR HDMI/VGA WIRING PROVISION OR T.V APPLIANCES HDMI/ VGA CABLE VIA 63MMØ PVC. REFER TO LAYOUT.

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

GENERAL NOTE:

1. ALL ELECTRONIC WORKS HERE IN SHALL BE DONE ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRONICS CODE. THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE UTILITY TELEPHONE COMPANY.
2. ALL ELECTRONIC WORKS HERE IN INCLUDED SHALL BE EXECUTED BY THE PERSONNEL WITH ELECTRICAL EXPERIENCE UNDER THE DIRECT SUPERVISION OF A FULL TIME LICENSED ELECTRONICS ENGINEER, WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROPERLY FINISHED.
3. THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF THE TAPPING POINT FR CONNECTION TO COMMUNICATION SUPPLY.
4. ALL MATERIALS SHALL BE BRAND NEW AND SHALL CONFORM WITH THE PROVISIONS OF THE UNDER WRITERS LABORATORIES INC., IN EVERY CASE WHERE SUCH A STANDARD HAS BEEN ESTABLISHED.
5. ALL CONDUITS MUST BE PROTECTED AGAINST DAMAGES BY THE ENTRANCE OF THE WATER AND FOREIGN MATTERS DURING CONSTRUCTION.ALL ENDS OF CONDUITS SHALL BE PLUGGED TO EXCLUDE MOISTURE AND DUST IMMEDIATELY AFTER THE CONDUITS ARE PLACED.
6. UNLESS OTHERWISE SPECIFIED, ALL ELECTRONICS WIRING INSTALLATION SHALL BE USED RSC.THE MINIMUM SIZE OF CONDUIT SHALL BE 15MMØ.
7. ALL RACEWAYS, WALL, AND FLOOR PENETRATION SHALL BE PROVIDED WITH FIRE BARRIER OF THE APPROVED TYPE.
8. ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE WITH THE FACTORY KNOCKOUTS. PULLBOXES SHALL BE USED WHEN APPLICABLE FOR EASY PULLING OF WIRES AND SHALL BE IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE REQUIREMENT. PREFERRED BRAND FOR JUNCTION, PULLBOXES OR UTILITY SQUARE BOXES SHALL BE FUMACO,AMCO,TIMO OR APPROVED EQUAL.
9. MOUNTING HEIGHTS OF DEVICES SHALL BE: (SUBJECT TO ARCHITECTS APPROVAL PRIOR TO INSTALLATION)
10. ALL SPEAKER WIRING SHALL BE 2-0.75 SQ.MM SHIELDED SPEAKER WIRE.
11. NETWORK CABLWES/ CONDUIT SHALL HAVE A MINIMUM DISTANCE OF 0.3M FROM POWER CONDUIT WHEN LAND PARALLEL AND MUST RUN PERPENDICULAR TO THE STEEL CONDUIT WHEN CUTTING ACROSS A POWER LINE.
12. THE PLANS AS DRAWN ARE BASED UPON THE ARCHITECTURAL PLANS AND THE DETAILS AND SHOWN CONDITION AS ACCURATELY AS IT IS POSSIBLE TO INDICATE THEM IN SCALE. THE PLANS ARE DIAGRAMMATICAL AND DOES NOT NECESSARILY SHOW ALL FITTINGS NECESSARY TO FIT TO THE BUILDING CONDITIONS. THE LOCATIONS OF OUTLETS, APPARATUS AND APPLIANCES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTORS SHALL BE HELD RESPONSIBLE FOR THEIR PROPER LOCATION IN ORDER TO MAKE THEM FIT WITH THE ARCHITECTURAL DETAILS AND INSTRUCTIONS FROM THE ENGINEER'S REPRESENTATIVE AT THE SITE.

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PROFESSIONAL ELECTRONICS ENGINEER	
PRC NO.	PTR NO.
	DATE
TIN	PLACE

PROJECT: PROPOSED
INTEGRATED TECHNOLOGY AND COMMUNICATION HUB
LOCATION: USTP PANAON, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:
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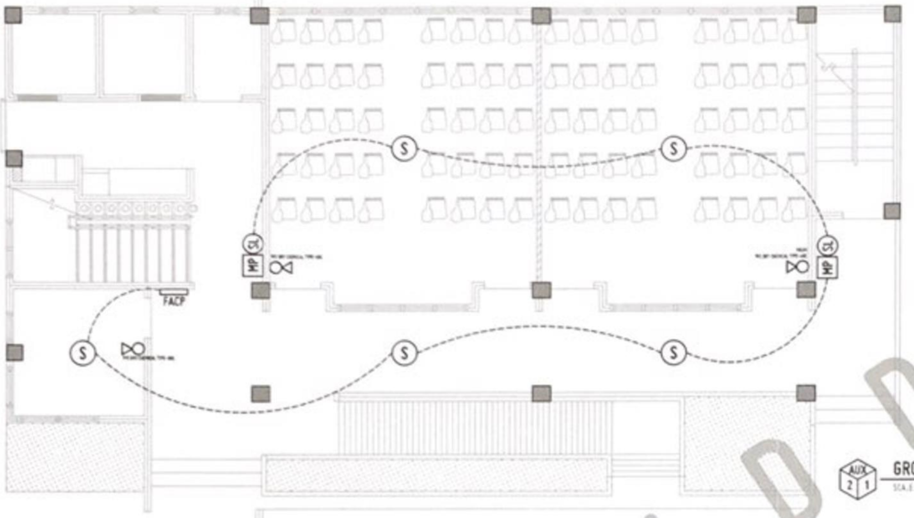
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM

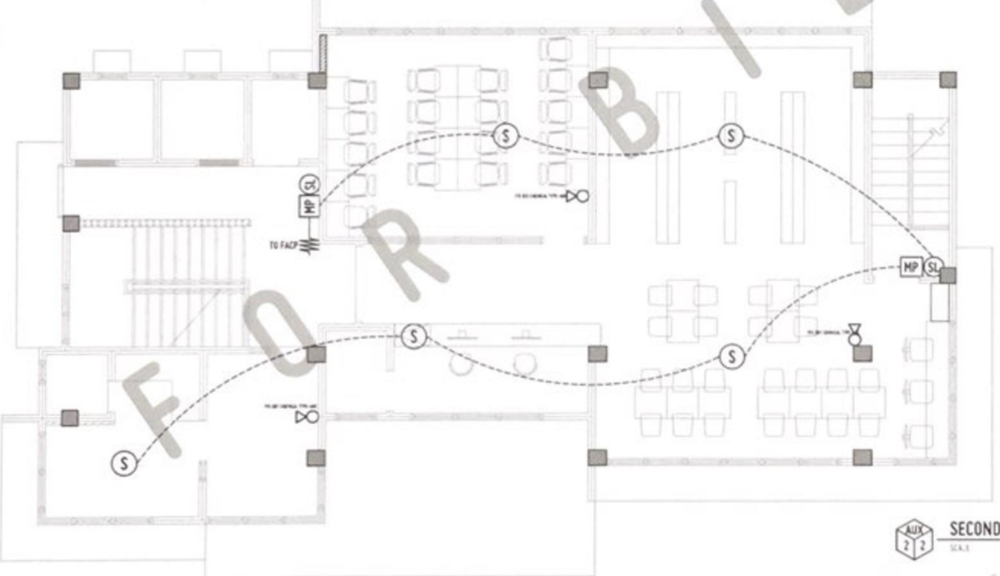
SHEET CONTENTS:
GROUND FLOOR ELECTRONICS LAYOUT
SECOND FLOOR ELECTRONICS LAYOUT

DRAWN BY:
DATE DRAWN:
FNT:

AUX 1



AUX 2 1 **GROUND FLOOR - FDAS LAYOUT**
SCALE 1:100 M'S



AUX 2 2 **SECOND FLOOR - FDAS LAYOUT**
SCALE 1:100 MTS

FOR BIDDING

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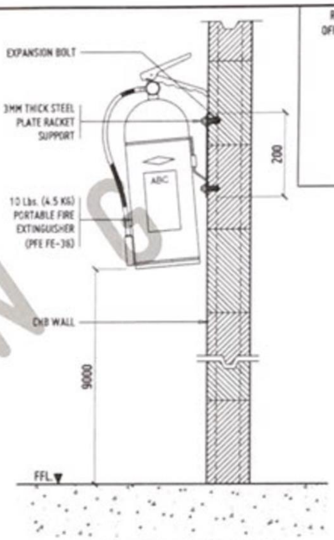

AUX 2 3 **10 LBS. (45 KGS.) PFE FE-36**
PORTABLE FIRE EXTINGUISHER
SCALE 1:100 M'S

NOTES:

1. FIRE ALARM SYSTEM SHALL BE CONVENTIONAL TYPE
2. MINIMUM CONDUIT SIZE SHALL BE 20MM (3/4")Ø. USE IMC FOR ALL EXPOSED CONDUIT OR INSIDE DRY WALL AND PVC IF CONRETE EMBEDDED.
3. ALL RISER CONDUIT SHALL BE IMC. PROVIDE 50MM (2")Ø SPARE IMC RISER CONDUIT.
4. FDAS WIRING AND CONDUIT SCHEDULE.

CONDUIT SIZE MMØ (INCHØ)		NUMBER OF TF WIRES (C.I. CABLE TYPE)		CONDUIT SIZE MMØ (INCHØ)		NUMBER OF TF WIRES (C.I. CABLE TYPE)	
METAL	uPVC	#18	#16	METAL	uPVC	#18	#16
20	25(3/4)	25	18	60	75(2-1/2)	234	172
25	32(1)	41	30	80	90(3)	363	266
32	40(1-1/4)	72	53	90	100(3-1/2)	486	357
40	50(1-1/2)	99	72	100	110(4)	627	460
50	63(2)	164	120				

5. SYMBOLS

FACP	FIRE ALARM CONTROL PANEL, UL LISTED BRAND
(S)	SMOKE DETECTOR- CEILING MOUNTED
◓	SMOKE DETECTOR- WALL MOUNTED
(H)	HEAT DETECTOR, CEILING MOUNTED
(SL)	FIRE ALARM STROBE AND HORN, UL LISTED BRAND
MP	FIRE ALARM MANUAL PULL STATION, UL LISTED BRAND
FPB	FIRE ALARM SYSTEM WIRING PULL BOX

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PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
GROUND FLOOR FDAS LAYOUT
SECOND FLOOR FDAS LAYOUT

DRAWN BY:
DATE DRAWN:
FNT:

AUX 2

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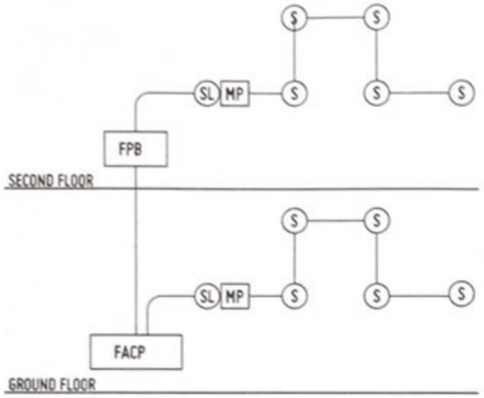
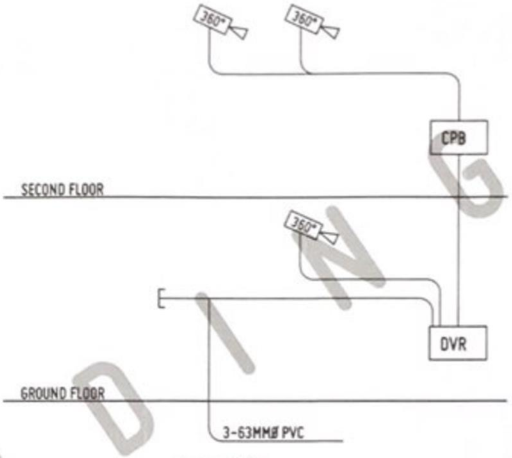
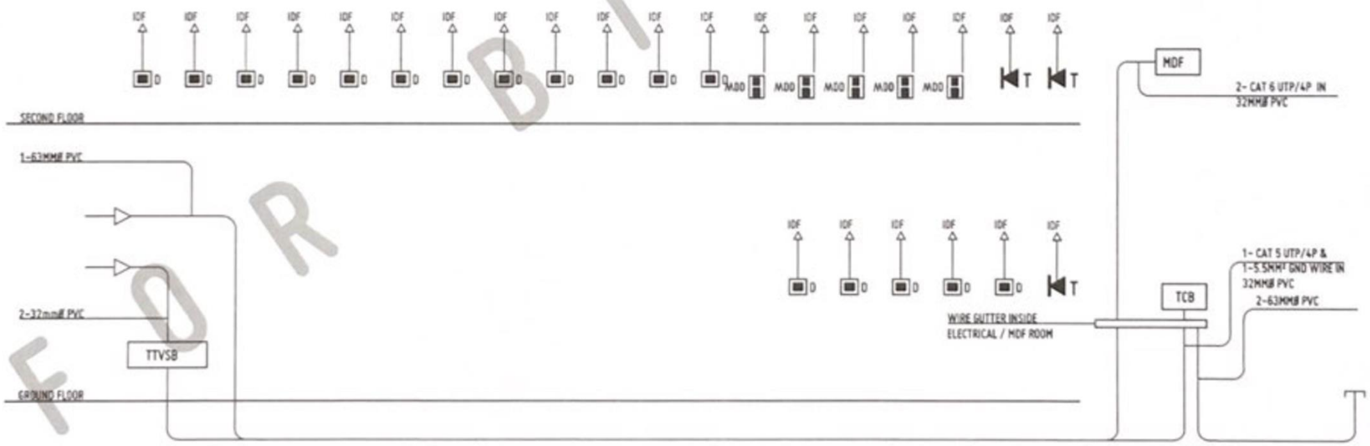


AUX 3 1
FIRE ALARM SYSTEM RISER DIAGRAM
NOT TO SCALE



AUX 3 2
CCTV SYSTEM RISER DIAGRAM
NOT TO SCALE



AUX 3 3
TELEPHONE AND INTERNET RISER DIAGRAM
NOT TO SCALE

FOR BIDDING

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FIRE ALARM SYSTEM RISER DIAGRAM
CCTV SYSTEM RISER DIAGRAM
TELEPHONE AND INTERNET RISER DIAGRAM

DRAWN BY:
DATE DRAWN:
FNT:

AUX 3