

PERSPECTIVE



REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SOUTHERN CALLEDJON
OFFICE OF THE DEAN
DEPARTMENT OF ARCHITECTURE AND PLANNING
GENERAL ENGINEERING, LAGUNA CAMPUS
P.O. BOX 1000, TAGAYtay CITY, LAGUNA
TEL: (052) 510-1000

PROJECT NO. 13-03-001
DATE: 03-29-2017
SCALE: 1/8" = 1'-0"

PROJECT NAME: PROPOSED 3-STORY USTP-CDO CAMPUS RESIDENCES BUILDING PHASE I

CLIENT: CHRYSLER LAGUNA, CHRYSLER USA, INC.
UNIVERSITY OF SOUTHERN CALLEDJON

DESIGNED BY: ARCHITECTURAL APPROVAL
DRAWN BY: A. FERRELL
CHECKED BY: A. FERRELL
DATE: 03-29-2017

APPROVED BY: ATTY. ERIC B. BUDOS
OFFICIAL: OFFICIAL OF THE UNIVERSITY OF SOUTHERN CALLEDJON

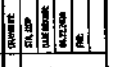
APPROVED BY: DR. ANTONIO E. CULTURA II
OFFICIAL: OFFICIAL OF THE UNIVERSITY OF SOUTHERN CALLEDJON

DATE: 03-29-2017
SCALE: 1/8" = 1'-0"

A1

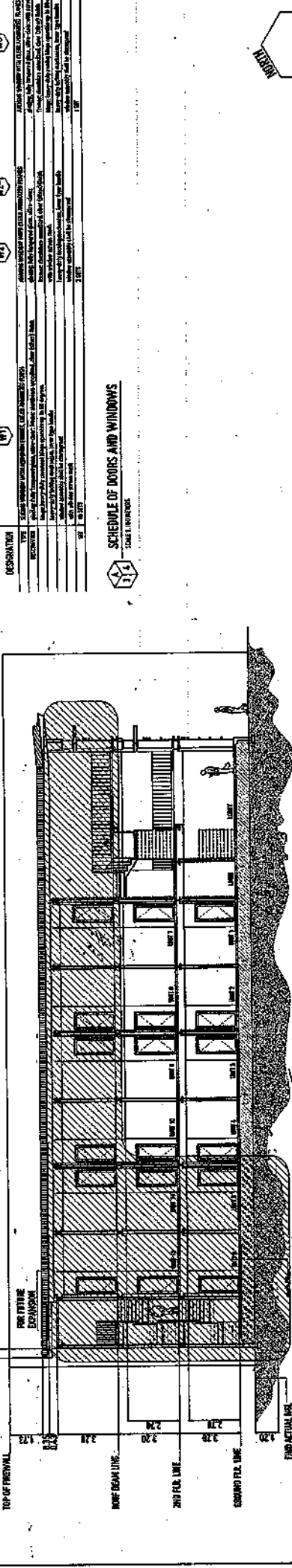
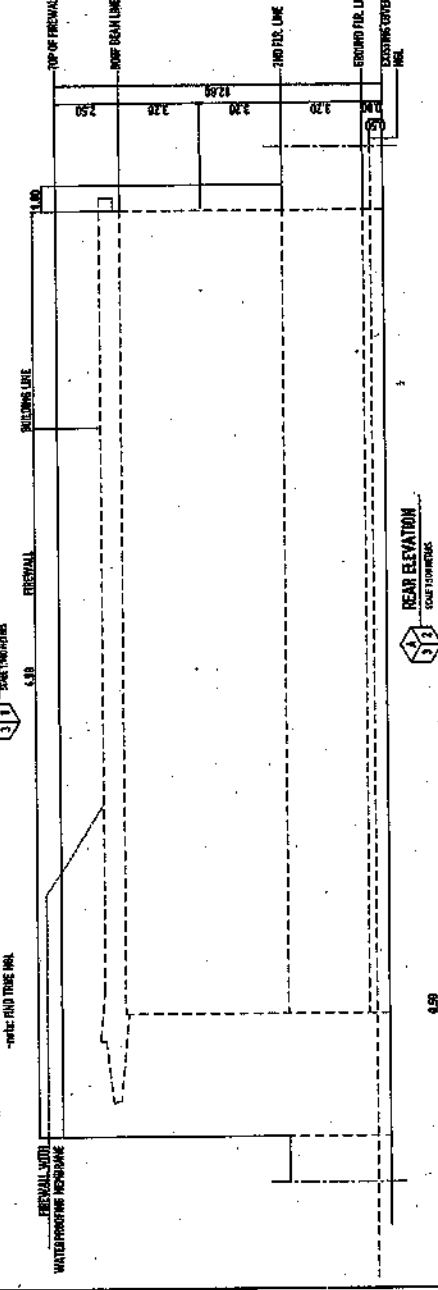
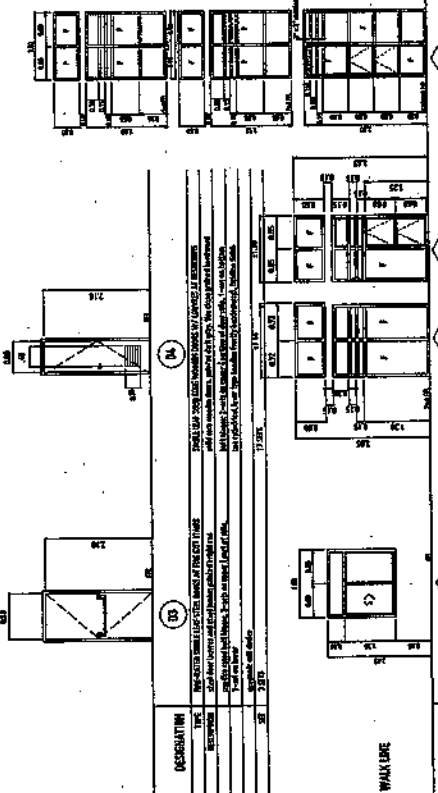
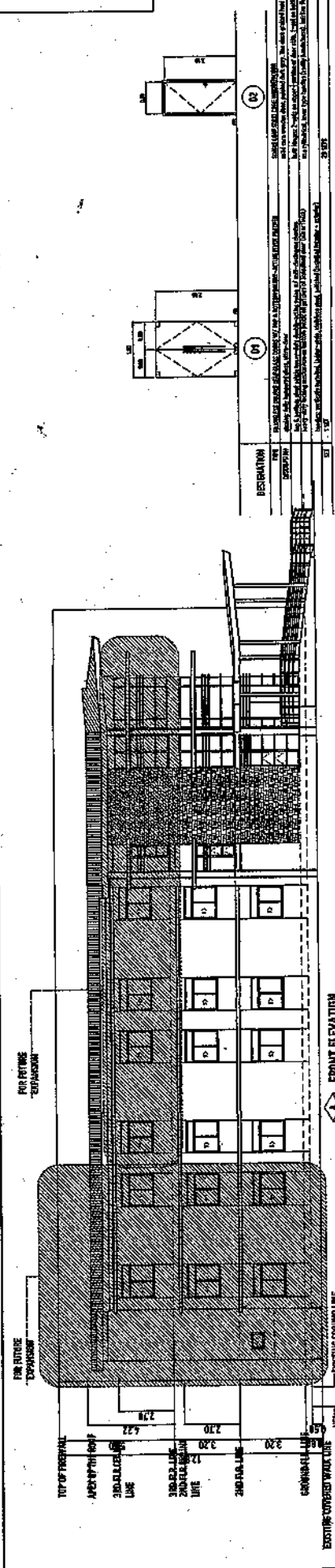
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APPROVED BY THE ARCHITECT
DATE: 05/15/2017



SCHEDULE OF DOORS AND WINDOWS

NO.	DESCRIPTION	TYPE	FINISH	GLASS	OPERATION	REMARKS
01	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
02	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
03	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
04	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
05	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
06	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
07	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
08	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
09	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
10	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
11	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
12	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
13	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
14	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
15	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
16	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
17	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
18	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
19	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS
20	DOOR	WOOD	STAINLESS STEEL	6MM	SLIDING	GLASS PART TO BE SUPPLIED BY OTHERS

SECTION THRU B-B

SCALE: 1/8" = 1'-0"

UNIVERSITY OF SORONG AND TECHNOLOGY OF SORONG BUILDINGS
PHASE 1

BY: RITA LAYAN, ARCHITECT & ENGINEER
UNIVERSITY OF SORONG AND TECHNOLOGY OF SORONG BUILDINGS

DATE: 11/11/2016
BY: RITA LAYAN
SCALE: 1/8" = 1'-0"

SECTION THRU C-C

SCALE: 1/8" = 1'-0"

UNIVERSITY OF SORONG AND TECHNOLOGY OF SORONG BUILDINGS
PHASE 1

BY: RITA LAYAN, ARCHITECT & ENGINEER
UNIVERSITY OF SORONG AND TECHNOLOGY OF SORONG BUILDINGS

DATE: 11/11/2016
BY: RITA LAYAN
SCALE: 1/8" = 1'-0"

PROPOSAL 3-STORY USTP-CDO CAMPUS RESIDENCES BUILDING PHASE 1

BY: RITA LAYAN, ARCHITECT & ENGINEER
UNIVERSITY OF SORONG AND TECHNOLOGY OF SORONG BUILDINGS

DATE: 11/11/2016
BY: RITA LAYAN
SCALE: 1/8" = 1'-0"

UNIVERSITY OF SORONG AND TECHNOLOGY OF SORONG BUILDINGS

PHASE 1

BY: RITA LAYAN, ARCHITECT & ENGINEER
UNIVERSITY OF SORONG AND TECHNOLOGY OF SORONG BUILDINGS

DATE: 11/11/2016
BY: RITA LAYAN
SCALE: 1/8" = 1'-0"

UNIVERSITY OF SORONG AND TECHNOLOGY OF SORONG BUILDINGS

PHASE 1

BY: RITA LAYAN, ARCHITECT & ENGINEER
UNIVERSITY OF SORONG AND TECHNOLOGY OF SORONG BUILDINGS

DATE: 11/11/2016
BY: RITA LAYAN
SCALE: 1/8" = 1'-0"

A3

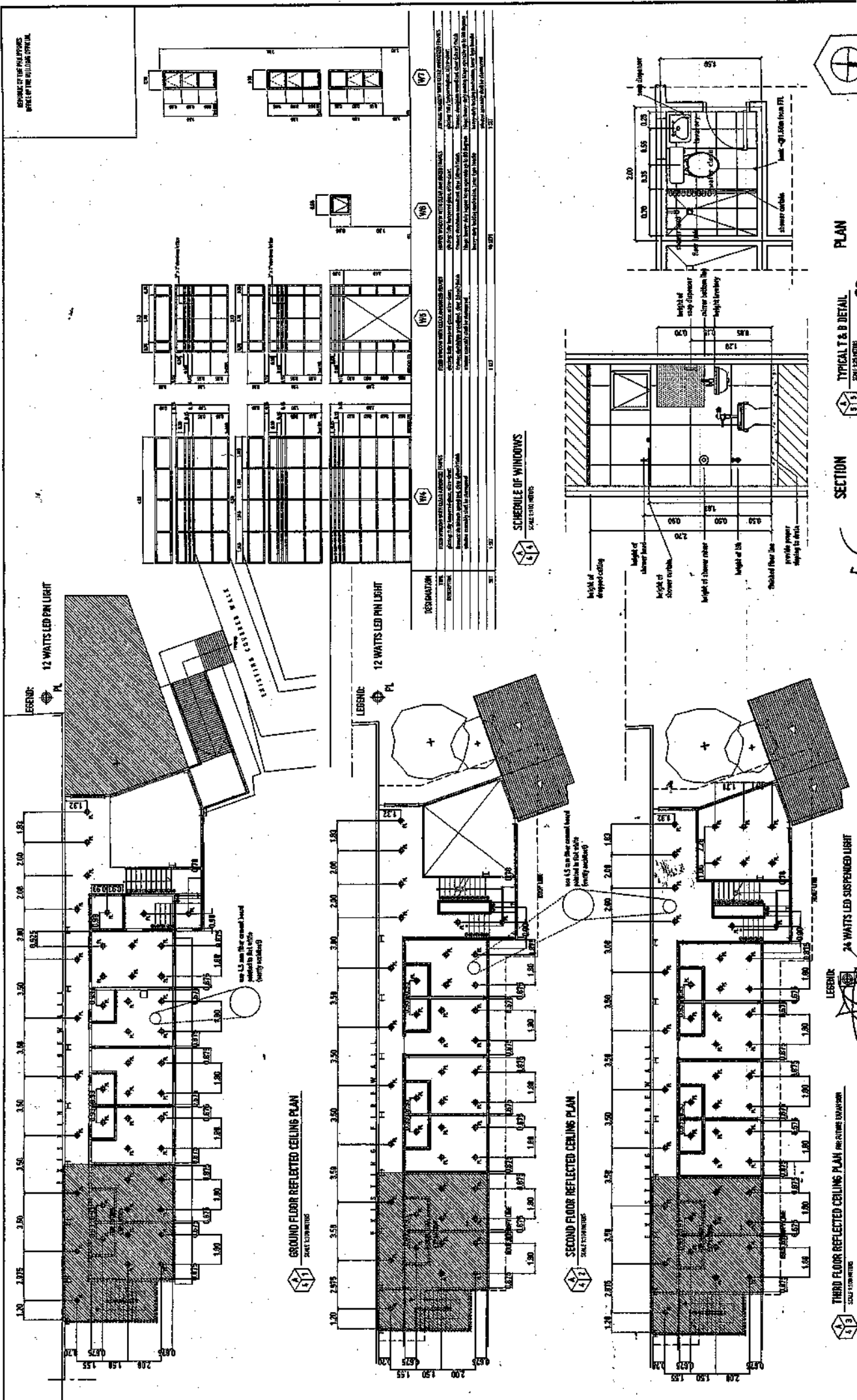
DR. JAMES B. CULTURAL II
UNIVERSITY OF SORONG AND TECHNOLOGY OF SORONG BUILDINGS

ATTY. ROBERT B. BUEY
UNIVERSITY OF SORONG AND TECHNOLOGY OF SORONG BUILDINGS

UNIVERSITY OF SORONG AND TECHNOLOGY OF SORONG BUILDINGS

UNIVERSITY OF SORONG AND TECHNOLOGY OF SORONG BUILDINGS





PROPOSED 3-STORY DSTP-COO CAMPUS RESIDENCES BUILDING PHASE 1

CLIENT: USTP
PROJECT: PHASE 1
LOCATION: CAMPUS, USTP
DATE: 2023-08-01
SCALE: 1/8" = 1'-0"

DESIGNED BY: ARCHITECTURE
PROJECT MANAGER: ARCHITECTURE
DATE: 2023-08-01
SCALE: 1/8" = 1'-0"

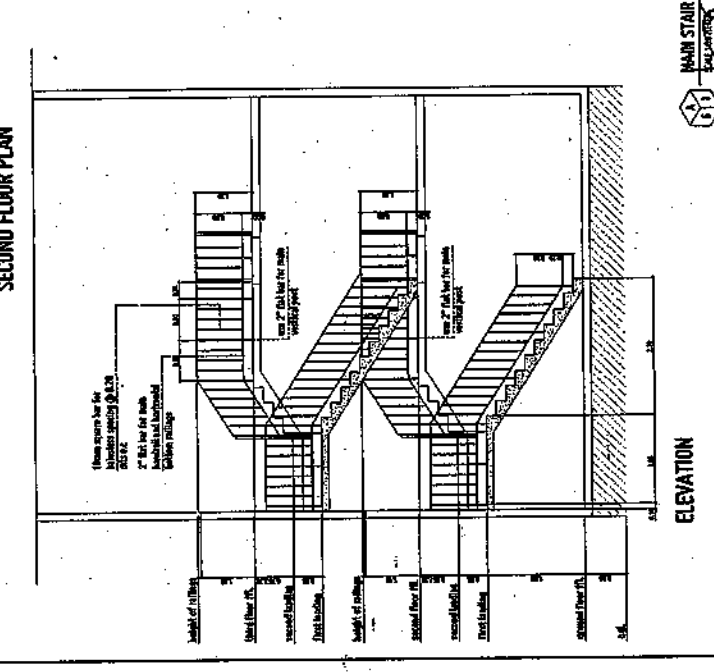
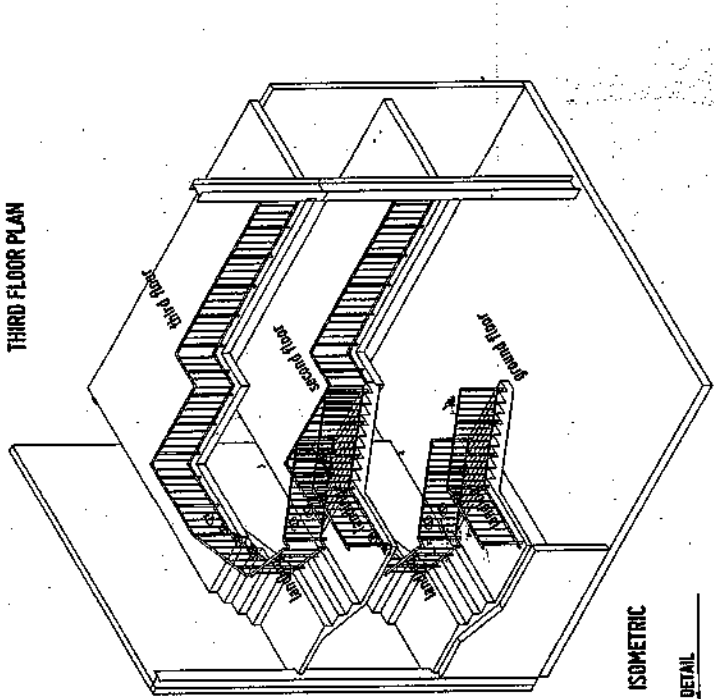
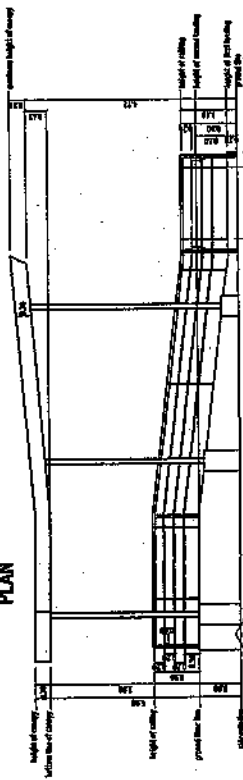
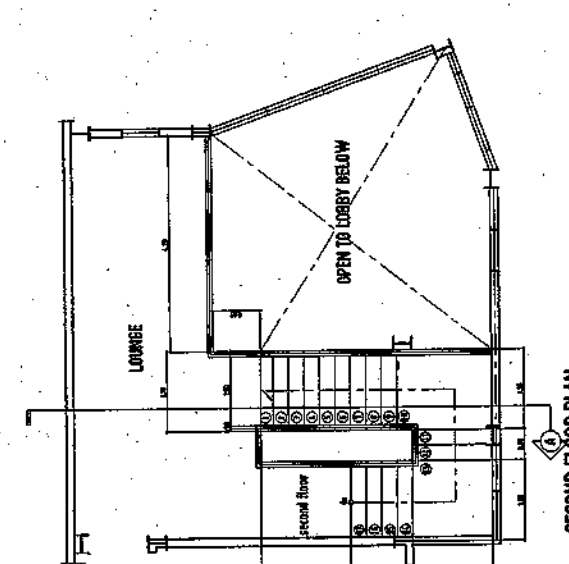
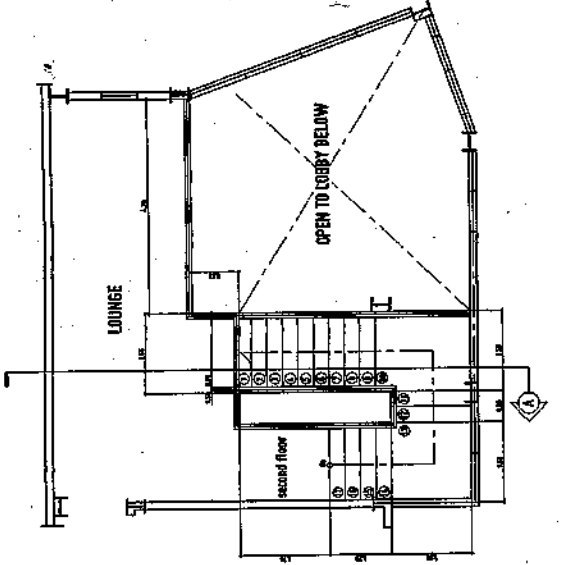
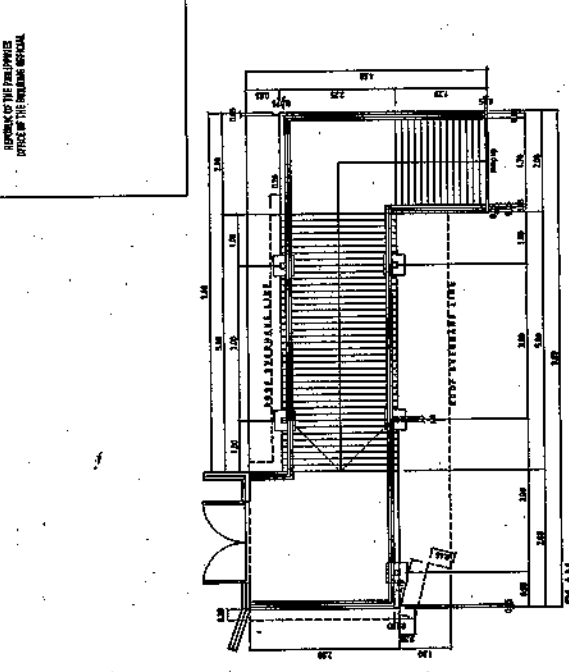
PROFESSOR/ARCHITECT: ARCHITECTURE
DATE: 2023-08-01
SCALE: 1/8" = 1'-0"

DR. ANTHONY B. CULTURAL II
ARCHITECTURE
DATE: 2023-08-01
SCALE: 1/8" = 1'-0"

USTP

LEGEND:
12 WATTS LED PN LIGHT
24 WATTS LED SUSPENDED LIGHT

UNIVERSITY OF THE PHILIPPINES
OFFICE OF THE ARCHITECT



A6

DATE: 02/11/2011	SHEET NO.:
DATE: 02/11/2011	DATE: 02/11/2011
DATE: 02/11/2011	DATE: 02/11/2011
DATE: 02/11/2011	DATE: 02/11/2011
DATE: 02/11/2011	DATE: 02/11/2011

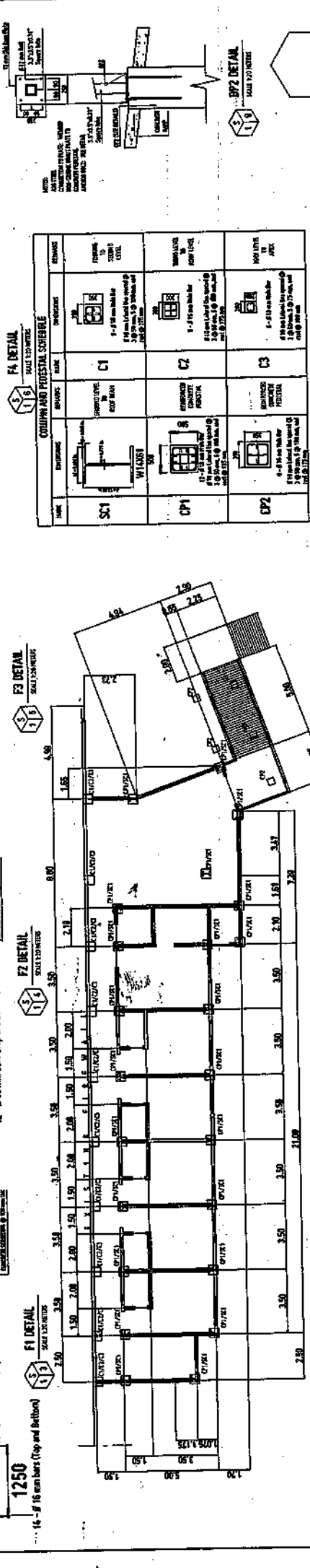
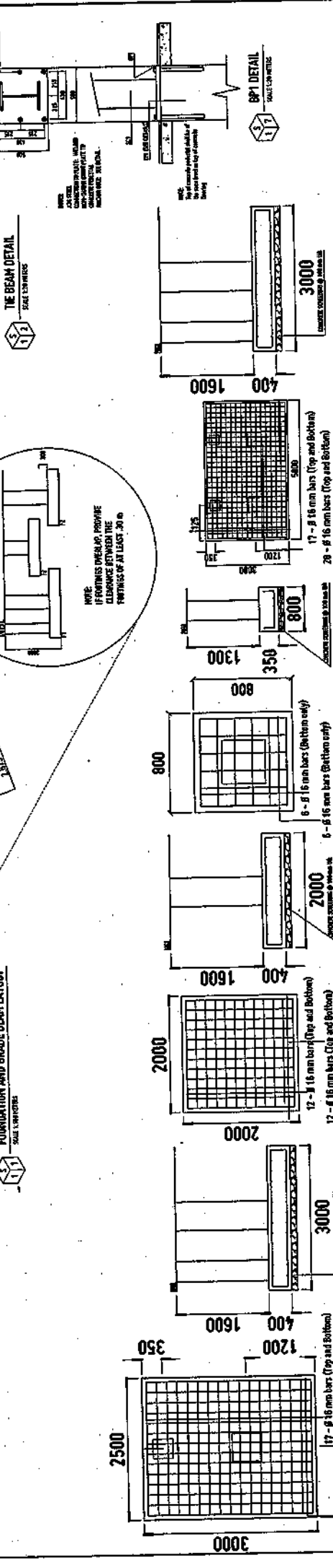
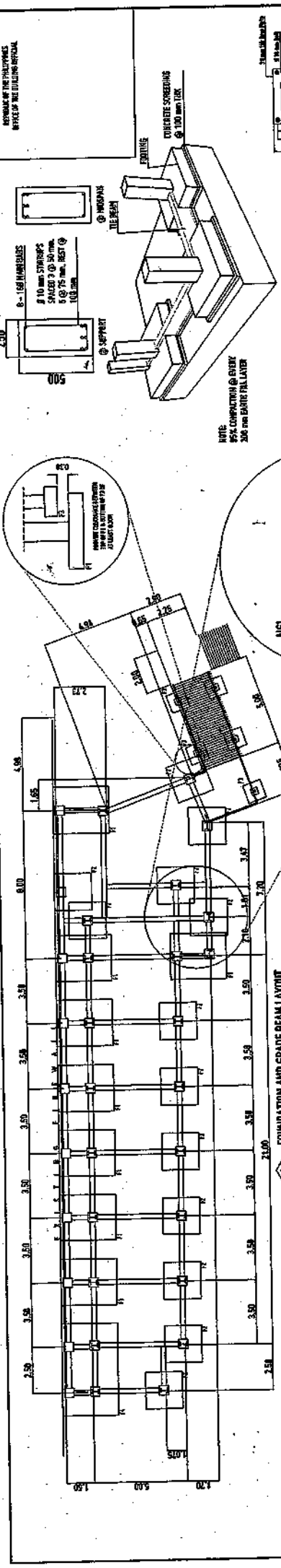
APPROVED BY: DR. AMBROSIO S. CULTURA II
ARCHITECT

PROPOSED 3-STORY USTP-CIO CAMPUS RESIDENCES BUILDING
PHASE 1
ON REEL LUNAR, CAMARINE CITY
UNIVERSITY OF SILES AND TECHNOLOGY OF SOUTHERN PHILIPPINES

PROJECT: USTP-CIO CAMPUS RESIDENCES BUILDING PHASE 1
DRAWING: ARCHITECTURAL PLAN
DATE: 02/11/2011
SCALE: AS SHOWN

UNIVERSITY OF THE PHILIPPINES
OFFICE OF THE ARCHITECT
UNIVERSITY OF SILES AND TECHNOLOGY OF SOUTHERN PHILIPPINES
ARCHITECTURE PLANNING AND DESIGN UNIT
UNIVERSITY OF SILES AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAMPUS LUNAR, CAMARINE CITY
CONTACT: (052) 236-1171 / (052) 236-1172 / (052) 236-1173





NO.	REVISIONS	DATE	BY	CHKD.

APPROVED BY:	DR. ARBESH VALLUVA
RECOMMENDED BY:	ATTY. SURESH BABU
PROJECT:	PROPOSED 3-STORY USTIP-COO CAMPUS RESIDENCES BUILDING PHASE 1
LOCATION:	USTIP-COO CAMPUS, CALICUT ANNEK, LAKSHM, KANNUR DISTRICT
OWNER:	UNIVERSITY OF SCIENCES AND TECHNOLOGY OF SHERIFFS KERALA

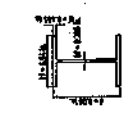
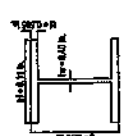
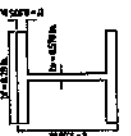
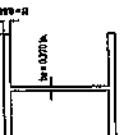


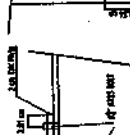
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BY:	
CHKD.:	
PROJECT:	STRUCTURAL ENGINEER
LOCATION:	
OWNER:	

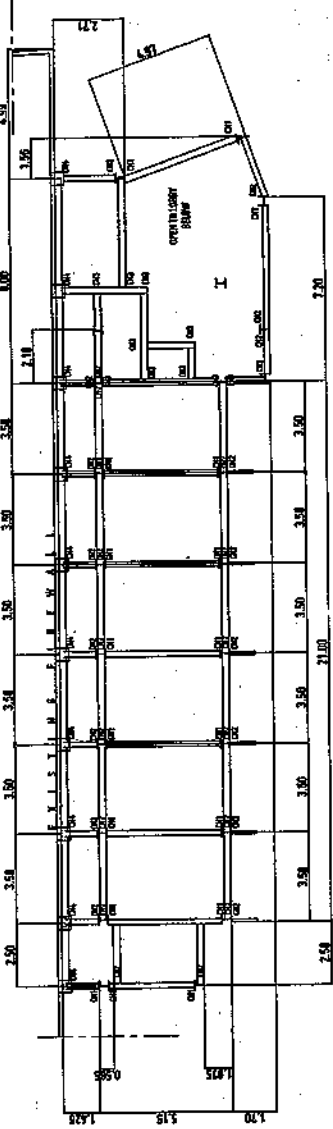
UNIVERSITY OF SCIENCES AND TECHNOLOGY OF SHERIFFS KERALA
 OFFICE NO. 10, SHERIFFS QUARTERS, KANNUR DISTRICT
 TEL: 0497-2611111 FAX: 0497-2611112
 WWW.USTIP.ORG

S1



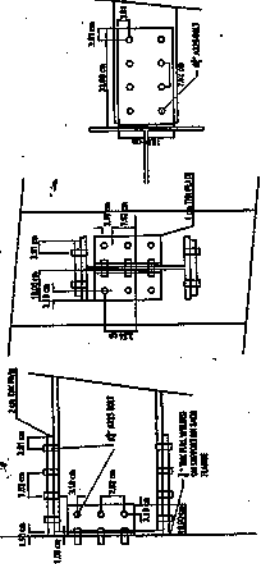
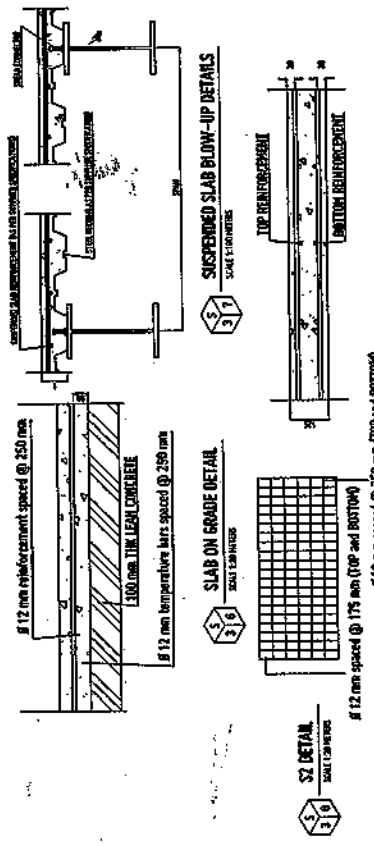
STEEL BEAMS SCHEDULE

 W 8 x 28 W 8 x 28 W 8 x 28 W 8 x 28	 W 9 x 48 W 9 x 48 W 9 x 48 W 9 x 48	 W 10 x 60 W 10 x 60 W 10 x 60 W 10 x 60	 W 12 x 58 W 12 x 58 W 12 x 58 W 12 x 58	 W 14 x 53 W 14 x 53 W 14 x 53 W 14 x 53	 W 8 x 67 W 8 x 67 W 8 x 67 W 8 x 67	 W 10 x 56 W 10 x 56 W 10 x 56 W 10 x 56
--	--	--	--	--	---	--



BEAM CONNECTION LAYOUT FOR 2ND/3RD FLOOR
SCALE 1/8" = 1'-0"

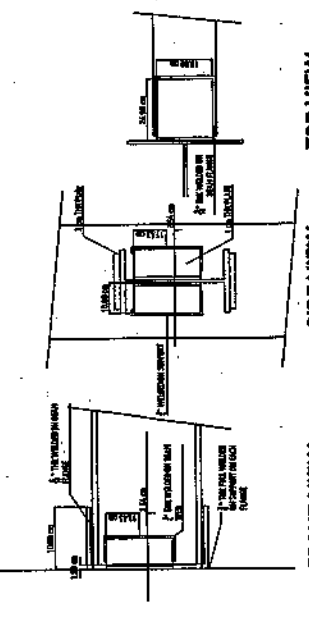
LEVEL	MARK	NUMBER	DESCRIPTION	REMARKS
GROUND	1	1	12 mm reinforcement bars	12 mm reinforcement bars
GROUND	2	2	12 mm reinforcement bars	12 mm reinforcement bars
GROUND	3	3	12 mm reinforcement bars	12 mm reinforcement bars
GROUND	4	4	12 mm reinforcement bars	12 mm reinforcement bars
GROUND	5	5	12 mm reinforcement bars	12 mm reinforcement bars
GROUND	6	6	12 mm reinforcement bars	12 mm reinforcement bars
GROUND	7	7	12 mm reinforcement bars	12 mm reinforcement bars
GROUND	8	8	12 mm reinforcement bars	12 mm reinforcement bars
GROUND	9	9	12 mm reinforcement bars	12 mm reinforcement bars
GROUND	10	10	12 mm reinforcement bars	12 mm reinforcement bars



TOP VIEW

SIDE VIEW

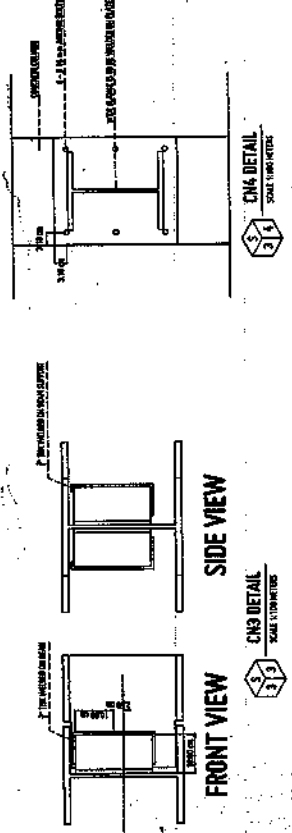
FRONT VIEW



TOP VIEW

SIDE VIEW


FRONT VIEW



SIDE VIEW

FRONT VIEW

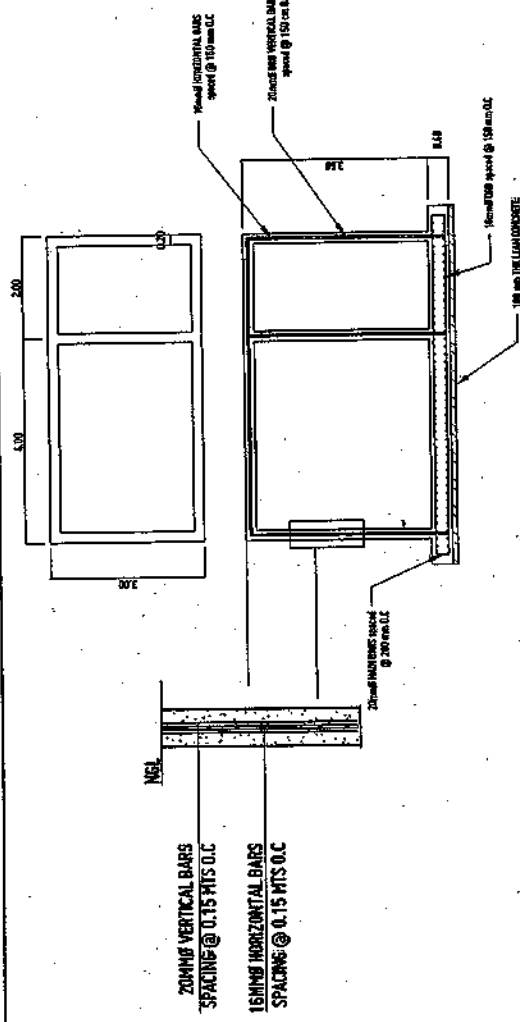
CMT4 DETAIL
SCALE 1/8" = 1'-0"



USTP

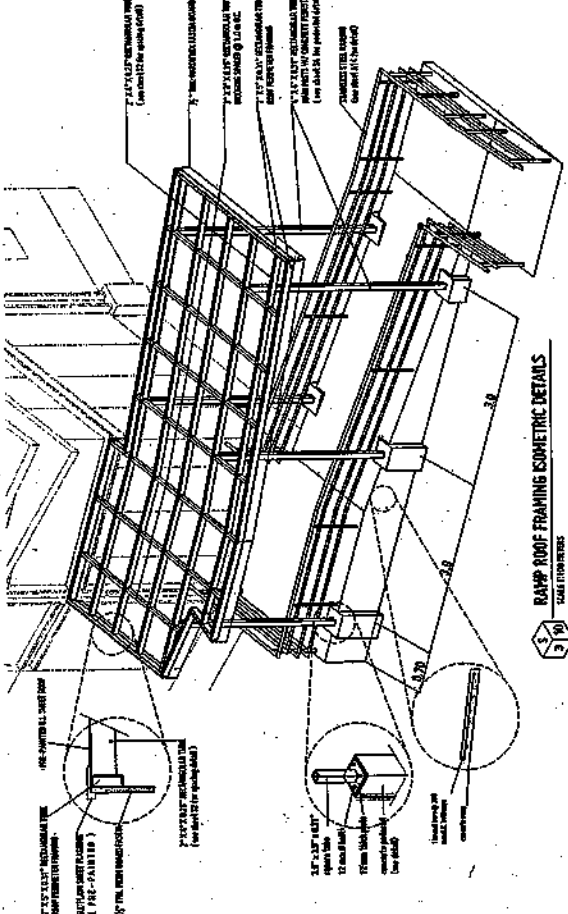
PROPOSED 3-STORY USTP-COR CAMPUS RESIDENCES BUILDING PHASE 1 CIVIL ENGINEERING DEPARTMENT UNIVERSITY OF SOUTHERN PHILIPPINES		PROJECT ARCHITECT ENGINEER DATE SHEET NO.	DRAWN CHECKED DATE PAGE
REVIEWED BY THE PHILIPPINE INSTITUTE OF SOUTHERN ARCHITECTURE (PSA) REGISTERED ARCHITECT REGISTERED ENGINEER REGISTERED CIVIL ENGINEER REGISTERED ELECTRICAL ENGINEER REGISTERED MECHANICAL ENGINEER REGISTERED CHEMICAL ENGINEER REGISTERED INDUSTRIAL ENGINEER REGISTERED AGRICULTURAL ENGINEER REGISTERED FORESTRY ENGINEER REGISTERED MARINE ENGINEER REGISTERED METALLURGICAL ENGINEER REGISTERED MINING ENGINEER REGISTERED PETROLEUM ENGINEER REGISTERED SURVEYING ENGINEER REGISTERED TRANSPORTATION ENGINEER REGISTERED WATER RESOURCES ENGINEER REGISTERED WASTE MANAGEMENT ENGINEER REGISTERED ENVIRONMENTAL ENGINEER REGISTERED FOOD ENGINEER REGISTERED FISH ENGINEER REGISTERED HUMANITIES ENGINEER REGISTERED LIBRARY SCIENCE ENGINEER REGISTERED MASS COMMUNICATIONS ENGINEER REGISTERED NURSING ENGINEER REGISTERED OCCUPATIONAL THERAPY ENGINEER REGISTERED PHYSIOLOGY ENGINEER REGISTERED PHYSIOTHERAPY ENGINEER REGISTERED RECREATION MANAGEMENT ENGINEER REGISTERED SOCIAL WORK ENGINEER REGISTERED TEACHER EDUCATION ENGINEER REGISTERED TOURISM ENGINEER REGISTERED VISUAL ARTS ENGINEER REGISTERED YOUTH AND HUMAN SERVICES ENGINEER		APPROVED BY: DR. ARNOLD B. CULIQUA II PRESIDENT, USTP SYSTEM	
REGISTERED ARCHITECT REGISTERED CIVIL ENGINEER REGISTERED ELECTRICAL ENGINEER REGISTERED MECHANICAL ENGINEER REGISTERED CHEMICAL ENGINEER REGISTERED INDUSTRIAL ENGINEER REGISTERED AGRICULTURAL ENGINEER REGISTERED FORESTRY ENGINEER REGISTERED MARINE ENGINEER REGISTERED METALLURGICAL ENGINEER REGISTERED MINING ENGINEER REGISTERED PETROLEUM ENGINEER REGISTERED SURVEYING ENGINEER REGISTERED TRANSPORTATION ENGINEER REGISTERED WATER RESOURCES ENGINEER REGISTERED WASTE MANAGEMENT ENGINEER REGISTERED ENVIRONMENTAL ENGINEER REGISTERED FOOD ENGINEER REGISTERED FISH ENGINEER REGISTERED HUMANITIES ENGINEER REGISTERED LIBRARY SCIENCE ENGINEER REGISTERED MASS COMMUNICATIONS ENGINEER REGISTERED NURSING ENGINEER REGISTERED OCCUPATIONAL THERAPY ENGINEER REGISTERED PHYSIOLOGY ENGINEER REGISTERED PHYSIOTHERAPY ENGINEER REGISTERED RECREATION MANAGEMENT ENGINEER REGISTERED SOCIAL WORK ENGINEER REGISTERED TEACHER EDUCATION ENGINEER REGISTERED TOURISM ENGINEER REGISTERED VISUAL ARTS ENGINEER REGISTERED YOUTH AND HUMAN SERVICES ENGINEER		SCALE 1/8" = 1'-0"	

CONTRACTOR TO VERIFY ALL DIMENSIONS AND DETAILS OF THE RAINDRAIN CHANNEL

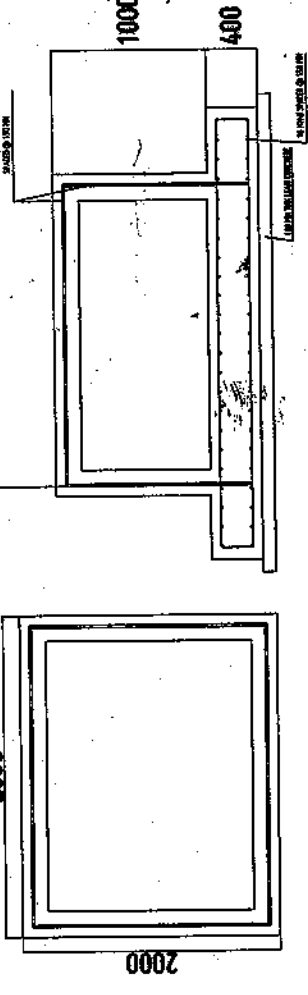


ZONING VERTICAL BARS SPACING @ 0.15 MTS O.C.
16mm HORIZONTAL BARS SPACING @ 0.15 MTS O.C.

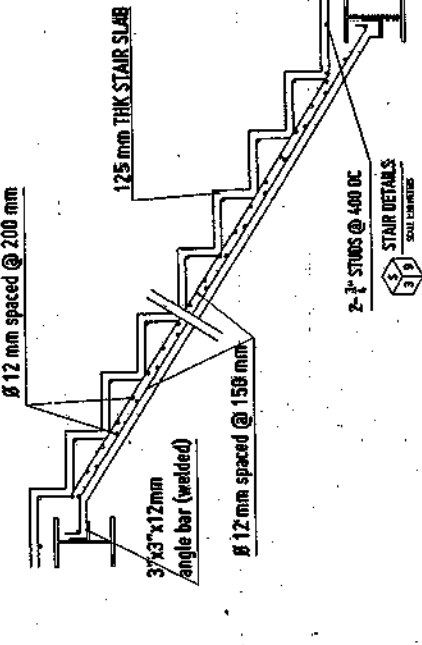
CISTERN TANK DETAIL
1:30 SCALE



RAMP ROOF FRAMING ISOMETRIC DETAILS
1:30 SCALE



RAINFILTER CATCHMENT TANK DETAIL
1:30 SCALE



STAIR DETAILS
1:30 SCALE



REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CLAYTON BRANCH
INTEGRATING THE BEST OF SCIENCE AND TECHNOLOGY
FOR THE BENEVOLENT DEVELOPMENT OF THE PEOPLE

PROPOSED 9-STORY USTP-400 CAMPUS RESIDENCES BUILDING
PHASE 1
OF BEST LUPATAL CAMPUS PHASE 1
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

DESIGNED BY:
ENR. FERDINAND S. JARPA
SCE, REGISTERED CIVIL ENGINEER

APPROVED BY:
ATTY. EDWARD B. TORIBIO
OF THE BAR AND BOARD OF LEGAL ATTORNEYS

SUBMITTED BY:
DR. ANTONIO B. CULTURA
PRESIDENT, USTP

S4

GENERAL NOTES

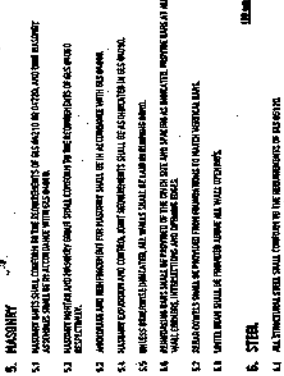


Table with 2 columns: BASIS (1/4", 3/8", 1/2", 5/8", 3/4", 1") and EXTENSION (12D, 18D, 24D, 24D, 24D, 24D).

- 1. GENERAL
1.1 THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS...
1.2 THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY REGULATIONS AND ORDINANCES...
1.3 THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS...
1.4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
1.5 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
1.6 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

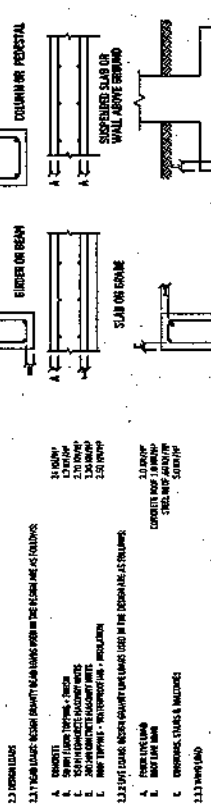
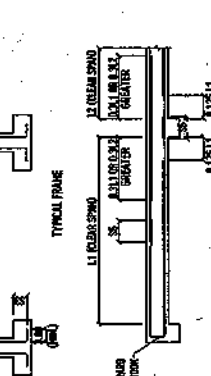
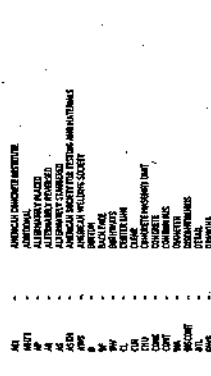
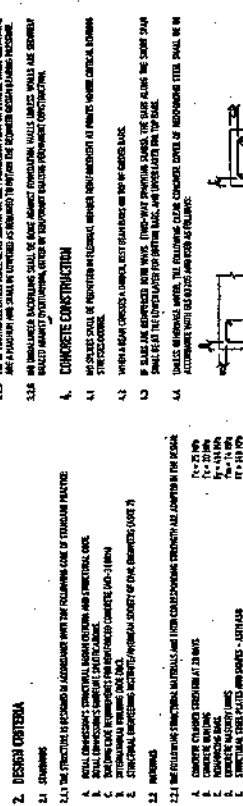
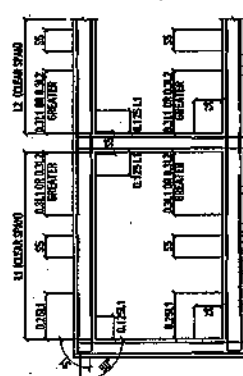
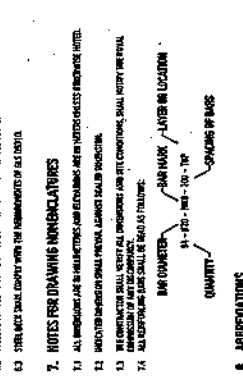


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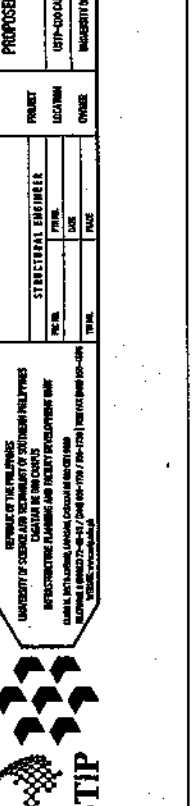
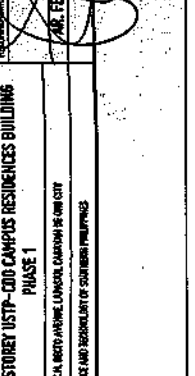
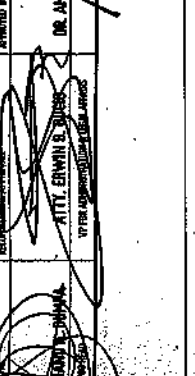
Table with 2 columns: MIN. LAP LENGTH IN TENSION and MIN. LAP LENGTH IN COMPRESSION. Rows include 1/4", 3/8", 1/2", 5/8", 3/4", 1" diam bars.

Table with 2 columns: MIN. LAP LENGTH IN TENSION and MIN. LAP LENGTH IN COMPRESSION. Rows include 1/4", 3/8", 1/2", 5/8", 3/4", 1" diam bars.

- 6. WATER PROOFING
6.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION AND INSTALLATION OF WATER PROOFING...
6.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION AND INSTALLATION OF WATER PROOFING...
6.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION AND INSTALLATION OF WATER PROOFING...

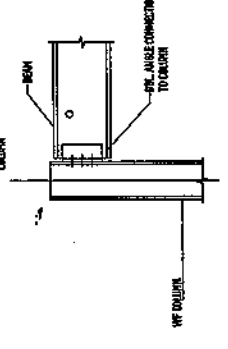
- 7. NOTES FOR DRAWING NOMENCLATURES
7.1 ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
7.2 ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
7.3 ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
7.4 ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

- 8. ABBREVIATIONS
AC AMERICAN CONCRETE INSTITUTE
AN ALUMINUM
AR ALUMINUM RIBBED
AS ALUMINUM STRIPS
AU ALUMINUM U CHANNEL
AV ALUMINUM V CHANNEL
AW ALUMINUM W CHANNEL
AX ALUMINUM X CHANNEL
AY ALUMINUM Y CHANNEL
AZ ALUMINUM Z CHANNEL
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BC BRASS
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BF BRASS
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CB CARBON STEEL
CC CARBON STEEL
CD CARBON STEEL
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CF CARBON STEEL
CG CARBON STEEL
CH CARBON STEEL
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CN CARBON STEEL
CO CARBON STEEL
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CS CARBON STEEL
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CU CARBON STEEL
CV CARBON STEEL
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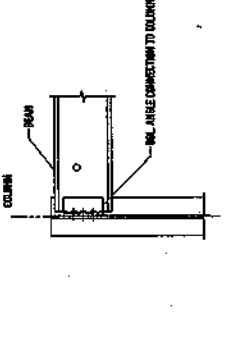
Project information including: PROJECT: PROPOSED 3-STORY USTIP-COD CAMPUS RESIDENCES BUILDING PHASE 1; ARCHITECT: DR. ANTHONY B. CULIURA II; ENGINEER: ATTY. ERWIN B. JONES; CONTRACT NO.: USTIP-COD-CAMPUS-RESIDENCES-BUILDING-PHASE-1; SHEET NO.: S5.

ENGINEER OF THE BUILDINGS
OFFICE OF THE BUILDING OFFICIAL



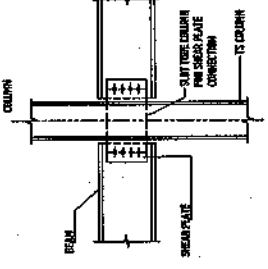
BEAM FRAMES TO FLANGE OF WFL COLUMN

BEAM SHEAR CONNECTION DETAIL #2
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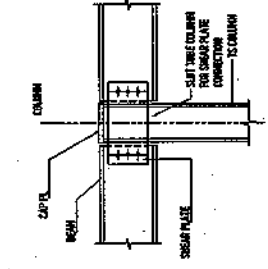
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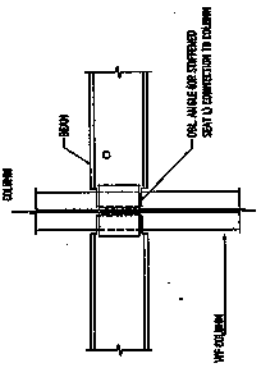
TS COLUMN BEAM CONNECTIONS

BEAM SHEAR CONNECTION DETAIL #1
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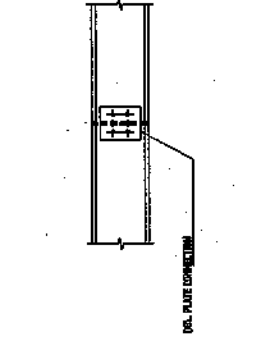
BEAM FRAMES IN BOTH SIDES OF TS COLUMN

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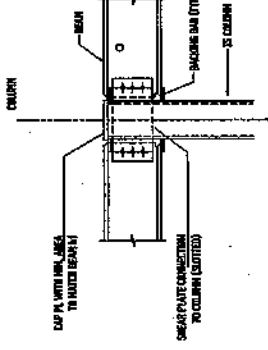
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BEAM SHEAR CONNECTION DETAIL #3
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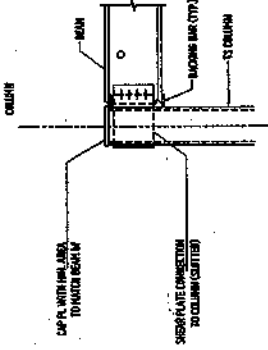
BEAM FRAMES TO BEAM SHEAR SPLICE

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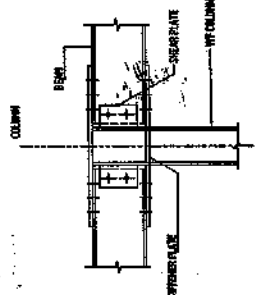
BEAM FRAMES BOTH SIDES OF TS COLUMN

BEAM MOMENT CONNECTION DETAIL #4
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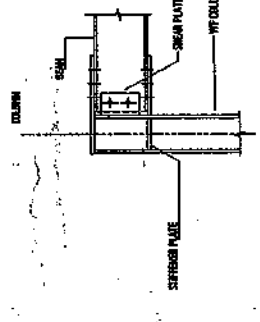
BEAM FRAMES ONE SIDE OF TS COLUMN

ALL



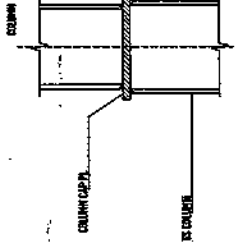
BEAM FRAMES BOTH SIDES OF WFL COLUMN

BEAM MOMENT CONNECTION DETAIL #2
ALL

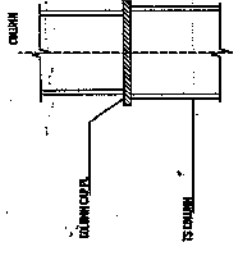


BEAM FRAMES ONE SIDE OF WFL COLUMN

ALL



TS COLUMN SPLICE PENETRATION WELDED



TS COLUMN SPLICE, FLUET WELDED



ENGINEER OF THE BUILDINGS
OFFICE OF THE BUILDING OFFICIAL
UNIVERSITY OF SOUTHERN CALIFORNIA
1250 UNIVERSITY BLVD
DOWNTOWN, CALIFORNIA 90688

ERNESTO CA. BULBOTE
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 01-31-2023
001 918 4110
001 918 4110

PROPOSED 3-STORY USTIP-CDO CAMPUS RESIDENCES BUILDING
PHASE 1
USTIP-CDO CAMPUS, C.A. BECTIA AVENUE, LAGUNA, CAGAYAN NEGRO CITY
UNIVERSITY OF SOUTHERN CALIFORNIA
UNIVERSITY OF SOUTHERN CALIFORNIA

DATE: 01-15-2023
SCALE: AS SHOWN
SHEET NO.: 10
PROJECT NO.: 10000000000000000000

APPROVED BY:
DR. JAYRUEL B. CUELLAR III
REGISTERED PROFESSIONAL ENGINEER
PE (ELECTRICAL)

APPROVED BY:
AR. FERDINAND S. TORRES
REGISTERED PROFESSIONAL ENGINEER
PE (ELECTRICAL)

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PE (ELECTRICAL)

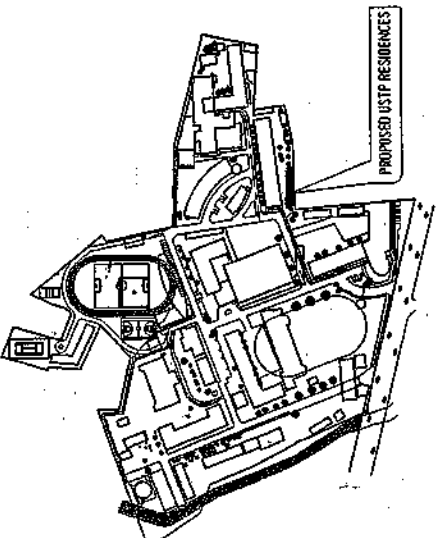
APPROVED BY:
AR. FERDINAND S. TORRES
REGISTERED PROFESSIONAL ENGINEER
PE (ELECTRICAL)

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REGISTERED PROFESSIONAL ENGINEER
PE (ELECTRICAL)

APPROVED BY:
AR. FERDINAND S. TORRES
REGISTERED PROFESSIONAL ENGINEER
PE (ELECTRICAL)

APPROVED BY:

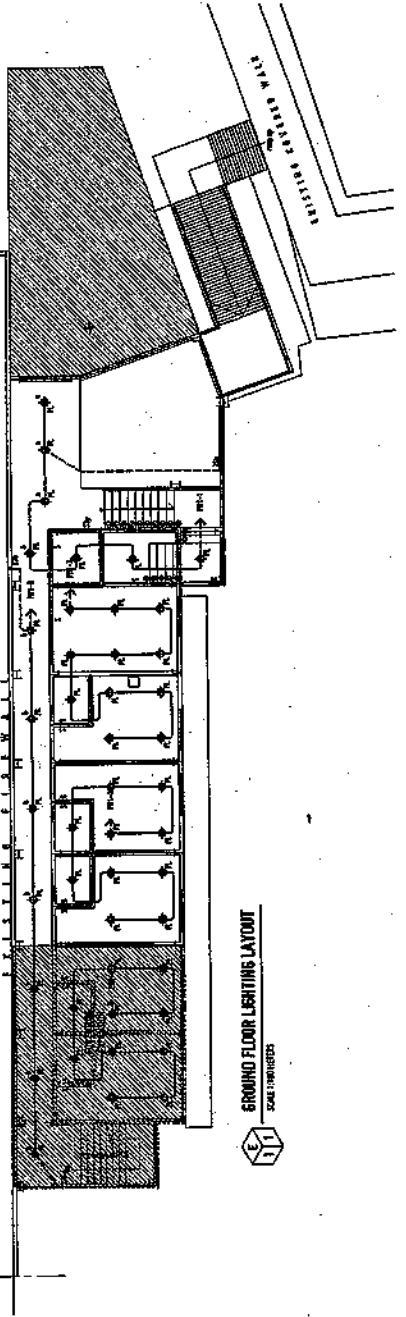
DATE: _____
 1. IN COMPLIANCE WITH THE ELECTRICAL CODE AND ALL OTHER APPLICABLE LAWS AND REGULATIONS.
 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE LAWS AND REGULATIONS.
 3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE LAWS AND REGULATIONS.
 4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE LAWS AND REGULATIONS.
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 10. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE LAWS AND REGULATIONS.



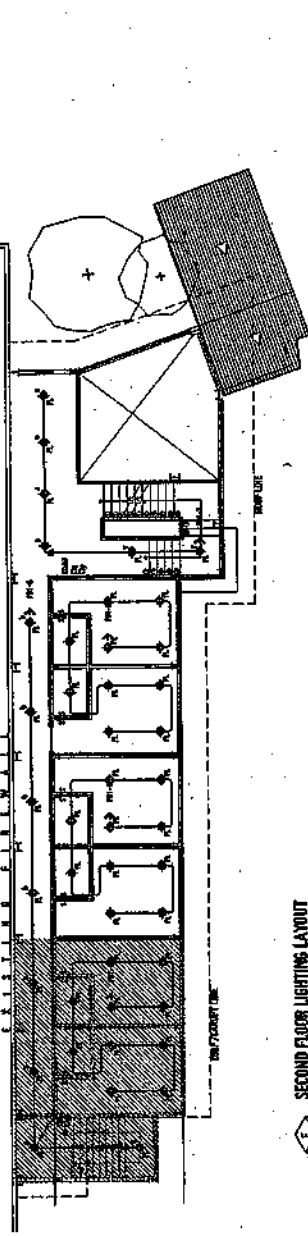
LOCATION MAP
SCALE: 1:1000

GENERAL NOTES:

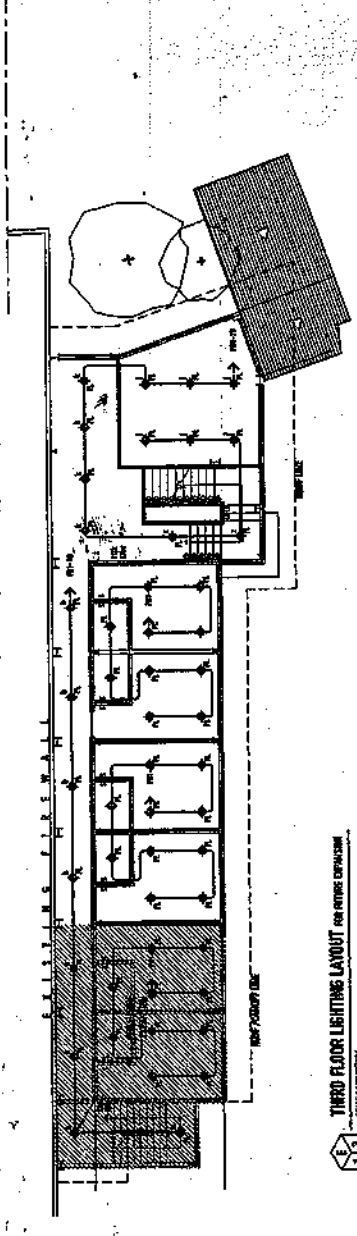
1. ALL WORK SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITIONS OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITY CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND ORDINANCES AND THE REGULATIONS OF THE STUDY COMPANY CONCERNED.
2. POWER SERVICE TO THE BUILDINGS SHALL BE 230 VOLTS 3 PHASE 3 WIRE & GROUND.
3. SMALLEST CONDUCTOR FOR POWER AND LIGHTING SHALL BE 3.5mm² THIN AND SMALLEST RACEWAY SHALL BE 15mm DIA. TRADE SIZE CONDUCTOR SHALL BE TYPE THIN EXCEPT AS OTHERWISE REQUIRED BY THE DRAWING AND INSULATED FOR 600 VOLTS.
4. GROUNDING WIRE SHALL BE PROVIDED TO ALL EQUIPMENTS, OUTLETS AND LIGHTING CIRCUITS AND ALL NON-CURRENT CARRYING METAL PARTS.
5. MATERIALS AND EQUIPMENT TO BE USED SHALL BE NEW AND OF APPROVED TYPE FOR SOUTH LOCATOR AND PURPOSE INTENDED. SUBMIT SAMPLES OF MATERIALS TO THE ARCHITECT/ DESIGN ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
6. NO BRANCH Ckt. SHALL HAVE A LOAD OF MORE THAN 20% OF ITS RATING.
7. CIRCUIT BREAKERS SHALL BE BOLT ON TYPE. USE ONLY ONE BRAND ALL THROUGHOUT.
8. MOUNTING HEIGHT SHALL BE AS FOLLOWS:
 a. LIGHT CONTROL SWITCH 1.52 ABOVE FINISHED FLOOR
 b. COMPETENCE OUTLET 0.30 ABOVE FINISHED FLOOR
 c. SPECIAL PURPOSE OUTLET 0.30 ABOVE FINISHED FLOOR OR AS REQUIRED BY THE ARCHITECT
 d. PANEL BOARD, FIRE ALARM-PANEL 1.80 FROM TOP OF PANEL TO FINISHED FLOOR
9. ALL WORKS SHALL BE COORDINATED WITH THE ARCHITECT AND OTHER TRADE DISCIPLINE PRIOR TO INSTALLATION.
10. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS SIGNED AND SEALED BY PROFESSIONAL ELECTRICAL ENGINEER.
11. CONTRACTOR TO PERFORM ALL TEST NECESSARY BUT NOT LIMITED TO THE FOLLOWINGS:
 a. CABLE INSULATION INTEGRITY TEST
 b. PHASE SEQUENCE TEST
 c. LOAD TEST
 d. COMPLETE TEST FOR TRANSFORMER
12. ALL WIRES SHALL BE COLOR CODED AS FOLLOWS:
 PHASE - A - BLACK
 PHASE - B - RED
 PHASE - C - BLUE
 GROUND - GREEN
13. NO CHANGE OR MODIFICATION SHALL BE MADE ON THESE PLANS WITHOUT THE ENGINEER'S/OWNER'S WRITTEN COMMENT.
14. ALL MOTORS AND AMP-CONTROLLING DEVICES MUST HAVE ADDITIONAL ENCLOSED CIRCUIT BREAKER



GROUND FLOOR LIGHTING LAYOUT
SCALE: 1:1000



SECOND FLOOR LIGHTING LAYOUT
SCALE: 1:1000



THIRD FLOOR LIGHTING LAYOUT FOR SERVICE ENTRANCE
SCALE: 1:1000



REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SUBICAO
INSTRUCTIONAL PLANNING AND FACILITY DEVELOPMENT DIVISION
CAMPUS DEVELOPMENT DIVISION
UNIVERSITY OF SUBICAO CAMPUS
UNIVERSITY OF SUBICAO
UNIVERSITY OF SUBICAO

PROPOSED 3-STORY USTP-COD CAMPUS RESIDENCES BUILDING
PHASE 1
USTP-CAMPUS CAL REYES AVENUE, LAPANSA, CANTON DE MENDOZA
UNIVERSITY OF SUBICAO

PROJECT: _____
 LOCATION: _____
 OWNER: _____

REGISTERED ELECTRICAL ENGINEER
 CITY ENGINEER
 REGISTERED ELECTRICAL ENGINEER

APPROVED BY: _____
 DATE: _____

SHEET NO. _____
 SHEET TOTAL _____

E1

APPROVED BY:
 DATE: _____
 OFFICE OF THE UNIVERSITY ENGINEER
 UNIVERSITY OF THE PHILIPPINES
 CANTONMENT, DAVAO CITY

- APPROVER BY:**
1. THE ENGINEER HAS REVIEWED THE DRAWINGS.
 2. THE ENGINEER HAS REVIEWED THE DRAWINGS AND HAS FOUND THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHILIPPINE ELECTRICAL CODE.
 3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHILIPPINE ELECTRICAL CODE.
 4. THE ENGINEER HAS REVIEWED THE DRAWINGS AND HAS FOUND THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHILIPPINE ELECTRICAL CODE.
 5. THE ENGINEER HAS REVIEWED THE DRAWINGS AND HAS FOUND THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHILIPPINE ELECTRICAL CODE.
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 9. THE ENGINEER HAS REVIEWED THE DRAWINGS AND HAS FOUND THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHILIPPINE ELECTRICAL CODE.
 10. THE ENGINEER HAS REVIEWED THE DRAWINGS AND HAS FOUND THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHILIPPINE ELECTRICAL CODE.

SPECIFICATIONS:

A. CODES AND REGULATIONS:

THE ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH ALL THE REQUIREMENTS OF THE PHILIPPINE ELECTRICAL CODE, WITH ALL THE REGULATIONS AND ORDINANCES OF THE LOCAL GOVERNMENT AGENCIES AND AGENCIES OF THE LOCAL GOVERNMENT.

1. CODES OF WORK:

1-1. THE WORK SHALL BE DONE IN ACCORDANCE WITH ALL THE REQUIREMENTS OF THE PHILIPPINE ELECTRICAL CODE.

1-2. SERVICES TO BE PROVIDED SHALL BE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS AS FOLLOWS:

1-3. SUPPLY AND INSTALLATION OF ELECTRICAL PANELS, SWITCHES, OUTLETS, TERMINALS AND ACCESSORIES SHALL BE AS REQUIRED.

1-4. SUPPLY OF WIRING: BRIDGES, TRAYS, TRUNKS, CONDUITS, TUBES, SWITCHES, ETC. COMPLETE WITH SUITABLE COVER PLATES AS PER SPECIFICATIONS.

1-5. SUPPLY AND INSTALLATION OF ALL TYPES OF LIGHTING FIXTURES AND ELECTRICAL CONTROL.

1-6. SUPPLY OF INSTALLATION FOR ALL TYPES OF FAN MOTORS COMPLETE WITH ALL TYPES OF ELECTRICAL CONTROL ON OTHER FLOORS.

1-7. DRAWINGS SHALL BE AS PER SPECIFICATIONS.

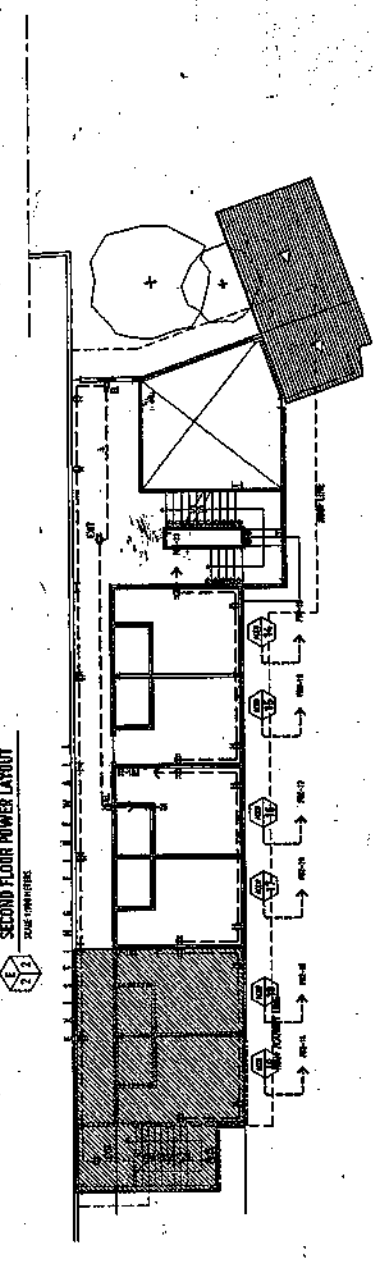
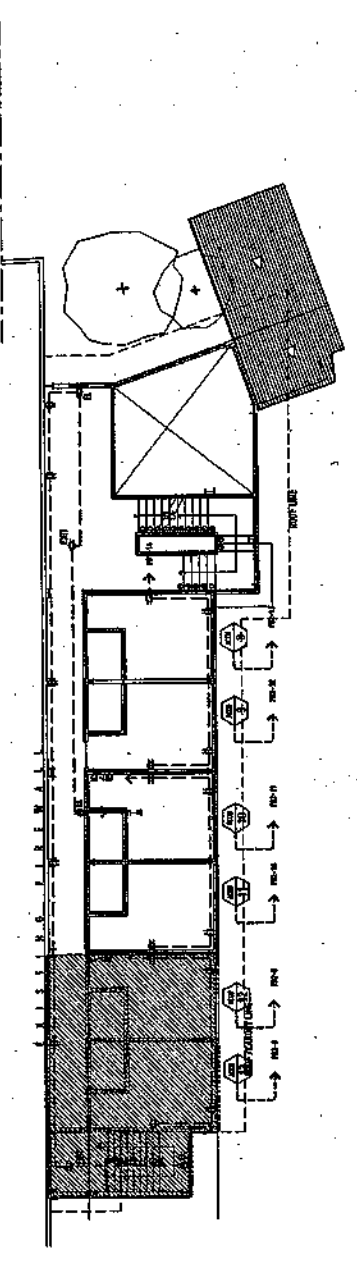
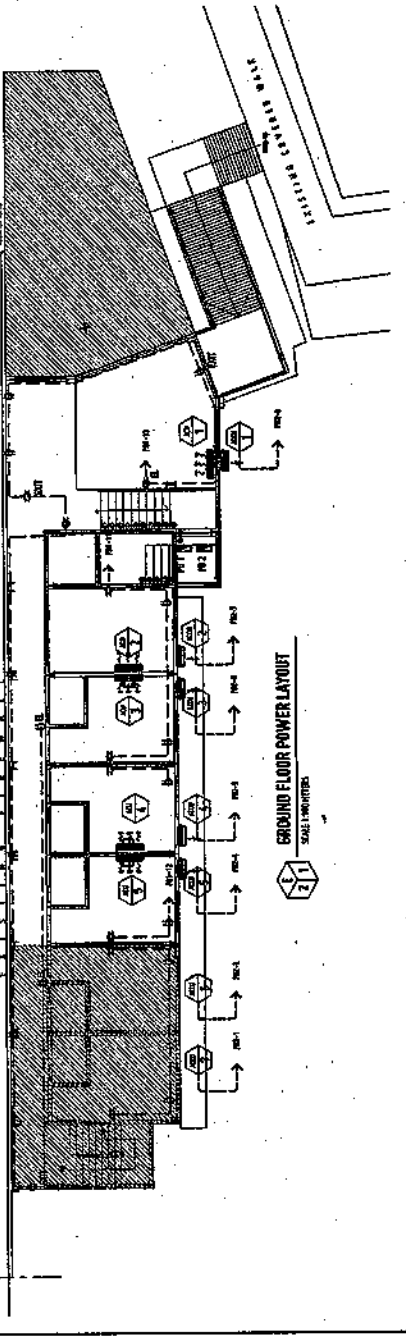
LEGEND

Symbol	Remarks
S	Single Pole Toggle Switch, 15A, 250V, Etc. Indicates King Switches, Small Letter Subscript indicates Light or Other Being Controlled. Includes Holders as Three (3) Together on the Standard Device Plate for Switch Location with Non-Blank (N) Toggle. Use Switch Blank Plate.
S3	See as Above Except 3-Way Switch
Φ	Single Pole Toggle Switch, 15A, 250V, Etc. Universal GMA Grounding Type.
Φ _{EL}	Single Pole Toggle Switch, 15A, 250V, Etc. Universal GMA Grounding Type.
Φ _{EXIT}	Single Pole Toggle Switch, 15A, 250V, Etc. Universal GMA Grounding Type.

NOTE: DRAWING SUBJECT TO CHECKING SUBJECT TO ARCHITECT'S APPROVAL.

IMPORTANT NOTES

1. STRUCTURAL DESIGN/DETAILS OF PEDESTAL, DOWNBANK AND GENERATOR PANS SHALL BE COORDINATED WITH STRUCTURAL ENGINEER PRIOR TO IMPLEMENTATION.
2. ELECTRICAL CONTRACTOR SHALL CORROBORATE LOCATION OF SERVICE PEDESTAL WITH EXISTING UTILITY POLE AT SITE & WITH ELECTRIC UTILITY COMPANY FOR THEIR COMPONENTS PRIOR TO IMPLEMENTATION. IN GENERAL, LOCATE PEDESTAL ON THE SIDE NEAR THE EXISTING POLE.



E2

DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____

PROJECT: PROPOSED 3-STORY USTP-CDS CAMPUS RESIDENCES BUILDING PHASE 1
 LOCATION: USTP-CANTONMENT, CANTONMENT, DAVAO CITY
 OWNER: UNIVERSITY OF THE PHILIPPINES

DESIGNED BY: _____
 CHECKED BY: _____
 APPROVED BY: _____
 DATE: _____

REPUBLIC OF THE PHILIPPINES
 UNIVERSITY OF THE PHILIPPINES
 CANTONMENT, DAVAO CITY
 OFFICE OF THE UNIVERSITY ENGINEER

PROFESSIONAL ELECTRICAL ENGINEER
 REG. NO. _____
 DATE: _____
 PLACE: _____

UNIVERSITY OF THE PHILIPPINES
 CANTONMENT, DAVAO CITY
 OFFICE OF THE UNIVERSITY ENGINEER

UNIVERSITY OF THE PHILIPPINES
 CANTONMENT, DAVAO CITY
 OFFICE OF THE UNIVERSITY ENGINEER



REPUBLIC OF THE PHILIPPINES
OFFICE OF THE CHIEF ELECTRICIAN
DEPARTMENT OF ENERGY

PROJECT: PROPOSED 3-STORY USTP-CED CAMPUS RESIDENCES BUILDING
ADDRESS: USTP C.A. (Cebu Avenue, Lapasan, Cagayan de Oro City 9000 Philippines)

PANEL: PFI
VOLUME: 200
BRAND/TYPE: 10
PHASE: THREE
WARRANTY: 3Y

CIRCUIT NO.	CIRCUIT DESCRIPTION	AMP	WIRE GAUGE	CONDUIT TYPE	WIRE SIZE		WIRE COLOR		REMARKS
					NO.	SIZE	NO.	SIZE	
1	12 WATS LED Pm Light	0.7	14	PVC	1	14	1	14	14
2	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
3	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
4	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
5	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
6	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
7	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
8	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
9	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
10	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
11	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
12	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
13	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
14	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
15	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
16	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
17	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
18	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
19	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
20	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
21	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
22	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
23	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
24	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
25	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
26	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
27	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
28	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
29	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
30	12 WATS LED Pm Light	1.1	12	PVC	1	12	1	12	12
TOTAL									

- 1. All conductors shall have minimum length of 100mm.
- 2. All conductors shall be insulated with PVC or XLPE insulation.
- 3. All conductors shall be insulated with PVC or XLPE insulation.
- 4. All conductors shall be insulated with PVC or XLPE insulation.
- 5. All conductors shall be insulated with PVC or XLPE insulation.
- 6. All conductors shall be insulated with PVC or XLPE insulation.
- 7. All conductors shall be insulated with PVC or XLPE insulation.
- 8. All conductors shall be insulated with PVC or XLPE insulation.
- 9. All conductors shall be insulated with PVC or XLPE insulation.
- 10. All conductors shall be insulated with PVC or XLPE insulation.

TYPE	AMPS	FACTOR	DEMAND KW	POWER FACTOR	DEMAND MVA	TOTAL AMPERES
BUSBAY MOTOR	0	1.0	0	1.0	0	0
LIGHTS	13.9	0.8	11.22	1	25.60	35.52
WATER HEATER	24.48	0.8	19.58	0.8	64.32	25.60
WASH MACHINE	0	1.0	0	1.0	0	0
AUXILIARY	0	1.0	0	1.0	0	0
WATER HEATER	0	1.0	0	1.0	0	0
OTHERS 1	0	1.0	0	1.0	0	0
OTHERS 2	0	1.0	0	1.0	0	0
OTHERS 3	0	1.0	0	1.0	0	0
TOTAL	38.38	0.8	30.70	0	30.70	115.92

REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF ELECTRICAL ENGINEERING

PROPOSED THREE-STORY UNIVERSITY RESIDENCES PHASE 1
USTP-CAMPUS C.A. (Cebu Avenue, Lapasan, Cagayan de Oro City)

DATE: 06-May-21
DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: DR. ANGELO S. CURTURA II
POSITION: HEAD OF DEPARTMENT

REVISIONS:

UNIVERSITY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF ELECTRICAL ENGINEERING

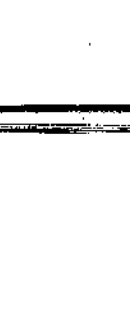
PROFESSIONAL ELECTRICAL ENGINEER
NAME: [Signature]
REG. NO.: [Signature]

UNIVERSITY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF ELECTRICAL ENGINEERING

PROFESSIONAL ELECTRICAL ENGINEER
NAME: [Signature]
REG. NO.: [Signature]

UNIVERSITY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF ELECTRICAL ENGINEERING

PROFESSIONAL ELECTRICAL ENGINEER
NAME: [Signature]
REG. NO.: [Signature]



PANEL PROPOSED 3-STORY (USTP-CDO CAMPUS RESIDENCES BUILDING)
ADDRESS USTP C.S. Recto Avenue, Pasay, City 1000 Philippines

DATE: 28-Apr-21
REVISION:

NO OF SETS	THINWIT/IRWIN						CONDUIT
	N	Y	X	G	6	TYPE	
1	250	30	30	30	30	30	PVC

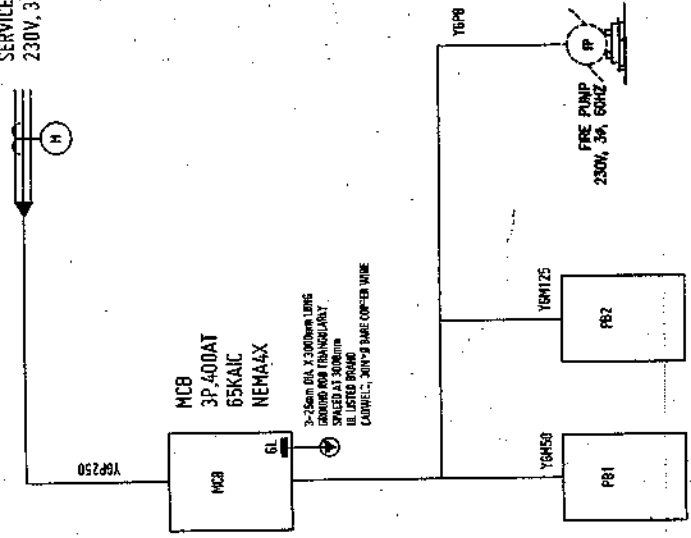
LOCATION BRANCH MCB	GROUND FLOOR 1B	VOLT 220	PHASE 3	MARS 3	AF		AT	EAC	TOTAL
					400 AMPS	500 AMPS			
CB TRIP									
1	150	225		30.38		116.92		34	34
2	250	300		56.00		184.50		1	1
3	150	225		15.00		30.51		1	1
3	225			109.38	0.00	0.00	0.00	340.83	

AP/F.F.	RW	DEMAND FACTOR	DEMAND AMPS	% SPARE AMPS	TOTAL AMPERES
D.B.I	15.90	0.85	37.08	0	45.27
BIGGEST MOTOR	13.00	0.80	29.22	25	36.52
LIGHTS	24.49	0.80	60.54	25	75.67
HEATING MACHINE	0	0.00	0.00	0	0.00
FRIDGE	0	0	0	0	0
CLOTHES DRYER	0	0	0	0	0
WASH MACHINE	0	0	0	0	0
JUNCTION	32.00	0.80	86.44	25	120.55
HOT DRINKING	14.00	1.00	14.00	42.29	25
HOT DRINKING (CONT)	3.00	0.80	7.92	25	9.27
OTHERS 1	0	0	0	0	0
OTHERS 2	0	0	0	0	0
OTHERS 3	0	0	0	0	0
TOTAL	109.38	0.83	90.304	273.08	342.48

GENERATOR SIZING
 TOTAL AMPS: 342.48
 KVA: 130.35

NOTE: DERATE AND DEMAND REQUIREMENTS 100V/240V, 3 PHASE, 60 HZ.

SERVICE ENTRANCE (CEPALCO)
 230V, 3PHASE, 4W, 60HZ



SINGLE LINE DIAGRAM
 511
 511

PHASE WIRE SIZES (AWG)	GROUND WIRE SIZES (AWG)	2-WIRE + GROUND UPVC		3-WIRE + GROUND UPVC		4-WIRE + GROUND UPVC		2-WIRE + GROUND METAL		3-WIRE + GROUND METAL		4-WIRE + GROUND 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)	3.5(12)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
4.0(10)	4.0(10)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
5.0(8)	5.0(8)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
6.0(6)	6.0(6)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
7.0(4)	7.0(4)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
8.0(3)	8.0(3)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
9.0(2)	9.0(2)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
10.0(1)	10.0(1)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
11.0(0)	11.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
12.0(0)	12.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
13.0(0)	13.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
14.0(0)	14.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
15.0(0)	15.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
16.0(0)	16.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
17.0(0)	17.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
18.0(0)	18.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
19.0(0)	19.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
20.0(0)	20.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
21.0(0)	21.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
22.0(0)	22.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
23.0(0)	23.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
24.0(0)	24.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
25.0(0)	25.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
26.0(0)	26.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
27.0(0)	27.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
28.0(0)	28.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
29.0(0)	29.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0
30.0(0)	30.0(0)	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0	70	16.0

NOTES:
 1 - TWO WIRE (L-N) OR (L-LL) TRIP/UPVC
 2 - THREE WIRE (L1-L2-L3) TRIP/UPVC
 3 - METAL WIRE. SAME SIZE AS PHASE WIRE
 4 - METAL WIRE. REFER SIZE TO PER FOR PARALLEL WIRE
 5 - ERMID WIRE. REFER SIZE TO PER FOR PARALLEL WIRE
 6 - METAL CONDUIT. INC. SIZE IN ENT
 7 - UPVC CONDUIT




PROFESSOR A. CORTES
 ATT. ELECTRICAL ENGINEER
 USTP-CAMPUS

DR. MARCO A. CULTURA II
 ATT. ELECTRICAL ENGINEER
 USTP-CAMPUS

REVISIONS

DATE

BY

PROJECT

LOCATION

OFFICE

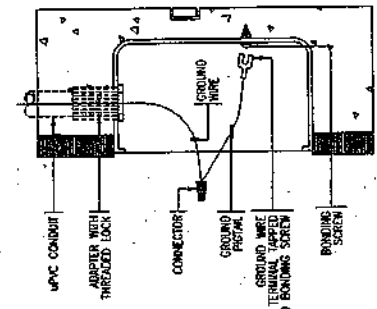
PROPOSED 3-STORY (USTP-CDO CAMPUS RESIDENCES BUILDING)
 PHASE 1

USTP-CAMPUS, C/O RECTO AVENUE, LAPAN, CAMPUS OF METRO CITY
 UNIVERSITY OF SCIENCE AND TECHNOLOGY OF THE PHILIPPINES

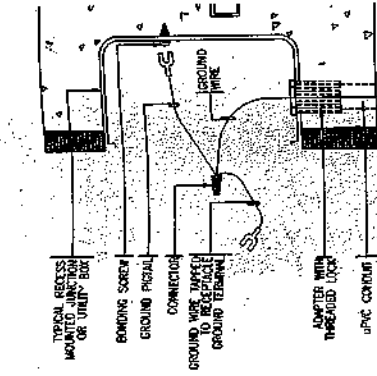
MEMBER OF THE PHILIPPINE
ENGINEERS REGISTERED
ELECTRICAL ENGINEERS
LICENSED UNDER THE
ELECTRICITY ACT OF 1945

APPROVED BY:

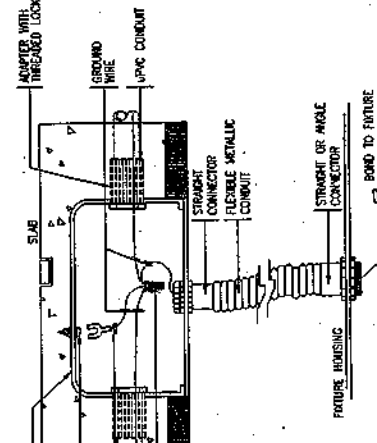
1. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE ELECTRICAL SYSTEM.
2. ALL ELECTRICAL SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE PHILIPPINE ELECTRICAL CODE (PEC).
3. ALL ELECTRICAL SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE PHILIPPINE ELECTRICAL CODE (PEC).
4. ALL ELECTRICAL SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE PHILIPPINE ELECTRICAL CODE (PEC).
5. ALL ELECTRICAL SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE PHILIPPINE ELECTRICAL CODE (PEC).
6. ALL ELECTRICAL SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE PHILIPPINE ELECTRICAL CODE (PEC).
7. ALL ELECTRICAL SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE PHILIPPINE ELECTRICAL CODE (PEC).
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9. ALL ELECTRICAL SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE PHILIPPINE ELECTRICAL CODE (PEC).
10. ALL ELECTRICAL SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE PHILIPPINE ELECTRICAL CODE (PEC).



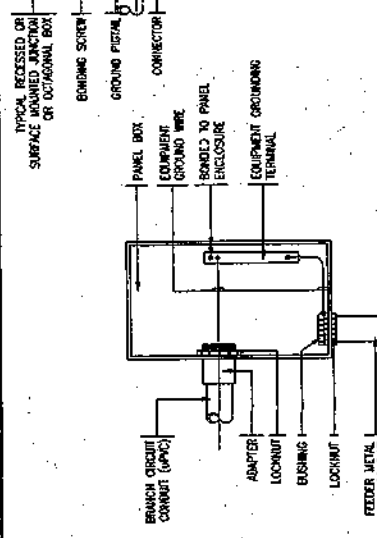
SWITCH BOX



RECEPTACLE BOX

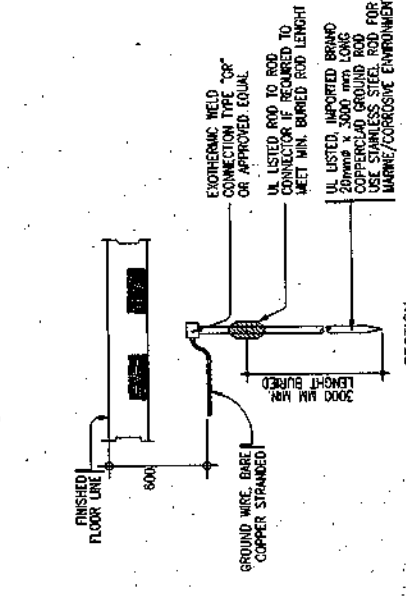


LIGHTING FIXTURE BOX



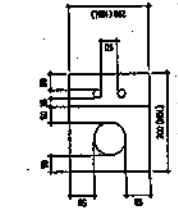
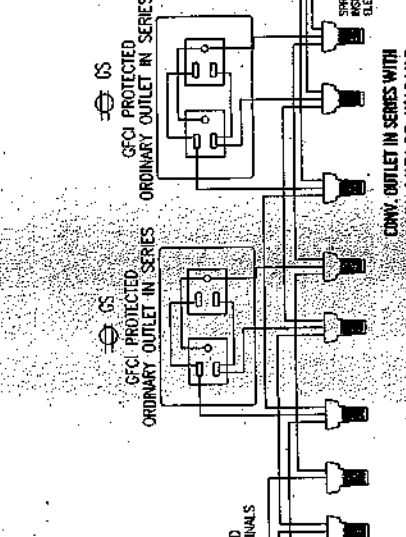
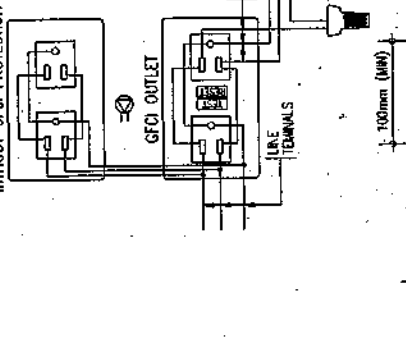
PANELBOARD

TYPICAL GROUNDING CONNECTION DETAILS
DRAWN NOT TO SCALE

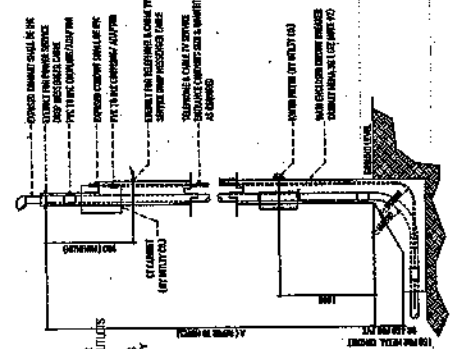


SECTION

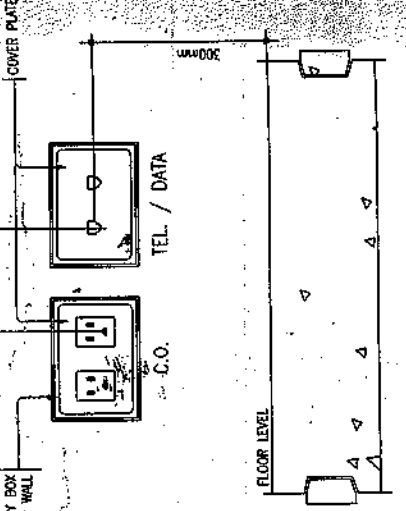
TYPICAL GROUND ROD
DRAWN NOT TO SCALE



PLAN



SERVICE PEDESTAL DETAIL
DRAWN NOT TO SCALE



TYPICAL C.O. AND TELEPHONE, DATA OUTLETS MOUNTING DETAILS
DRAWN NOT TO SCALE

E6

DATE	
REVISION	
NO.	

APPROVED BY: *[Signature]*
DR. ANTONIO B. CULTURA II
REGISTERED ELECTRICAL ENGINEER

APPROVED BY: *[Signature]*
DR. ANTONIO B. CULTURA II
REGISTERED ELECTRICAL ENGINEER

PROPOSED 3-STORY USTP-CDO CAMPUS RESIDENCES BUILDING
PHASE 1
USTP-CDO CAMPUS, CALI, WEST HAVEN, LAGUNA DIVISION, DENR/DOH
UNIVERSITY OF SOUTHERN PHILIPPINES

NO.	DATE	BY	CHKD.

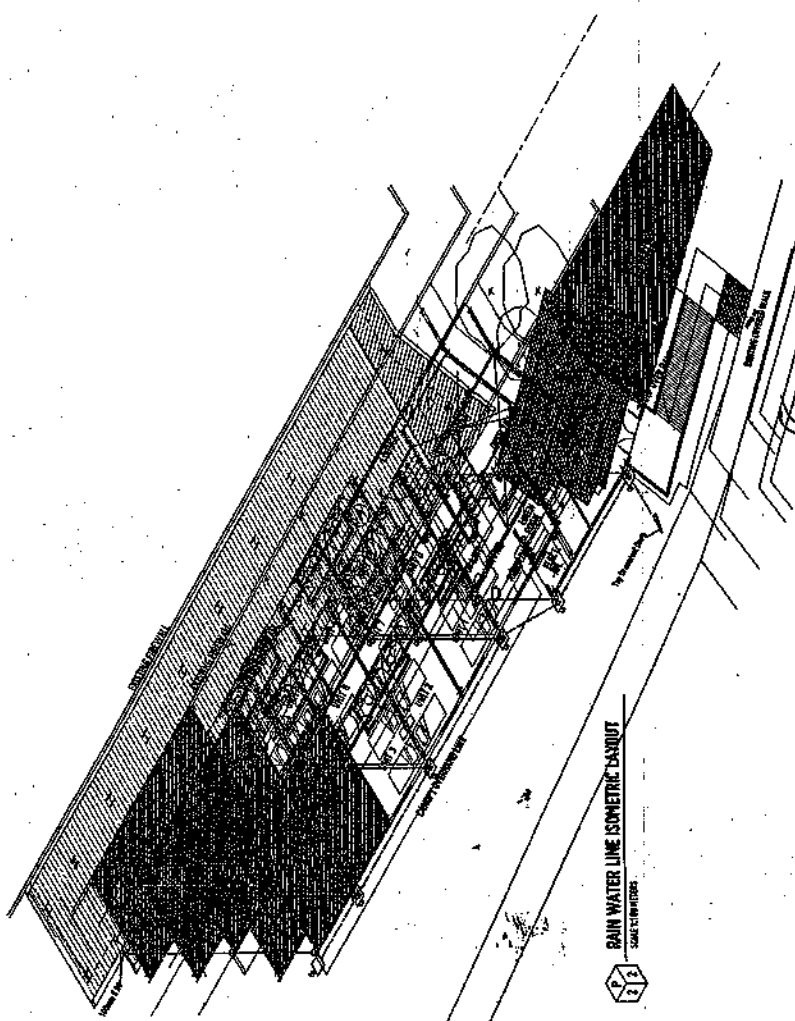
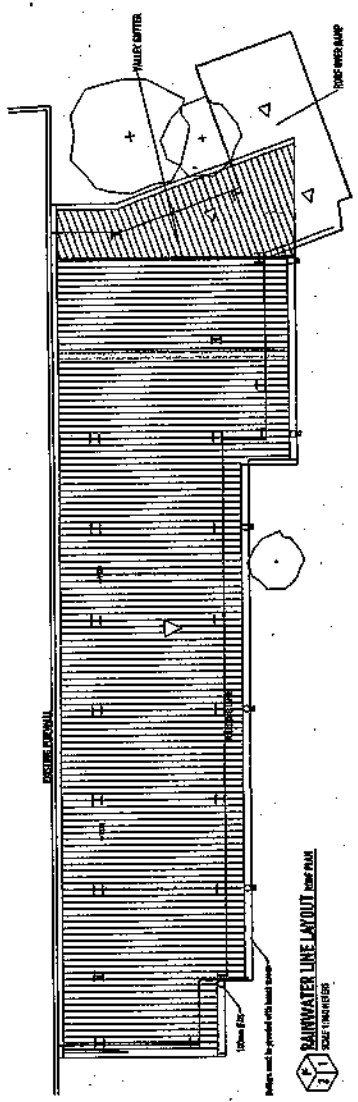
MEMBER OF THE PHILIPPINE ENGINEERS REGISTERED ELECTRICAL ENGINEERS LICENSED UNDER THE ELECTRICITY ACT OF 1945



REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF THE PHILIPPINES

- WATERLINE
- WASTE WATERLINE
- STACK VENT LINE
- RISER
- WATER METER
- SHUT-OFF VALVE
- OR
- CHECK VALVE
- DOWNSPOUT
- CATCH BASIN
- LAVATORY
- WATER CLOSET
- FLOOR DRAIN
- VENT STACK TO ROOF
- HOSE REEL

LEGEND:
 DS
 CB
 LAV
 WC
 FD
 VSTR
 HB



DATE	REVISIONS	APPROVED BY:	SHEET NO.:
		DR. ANTONIO S. CALIBURA M	
		ATILFERNO A. SIBUNYAN	

PROPOSED 3-STORY NSTP-CAD CAMPUS RESIDENCES BUILDING
 PHASE 1
 NSTP-CAD CAMPUS CAN BETH ARMO, LAGUNA, CALABANG DISTRICT
 UNIVERSITY OF THE PHILIPPINES

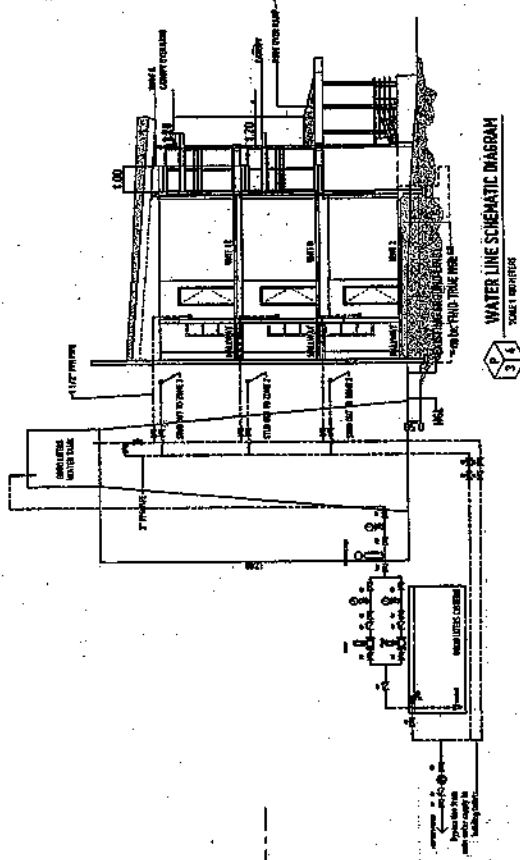
PROJECT	DATE
LOCATION	
OWNER	

REPUBLIC OF THE PHILIPPINES
 UNIVERSITY OF THE PHILIPPINES
 INSTITUTIONS PLANNING AND FACILITY DEVELOPMENT UNIT
 1000 UNIVERSITY AVENUE, CALABANG DISTRICT, LAGUNA
 TEL: (049) 252-1000 / (049) 252-1001 / (049) 252-1002
 WWW.USTIP.EDU.PH

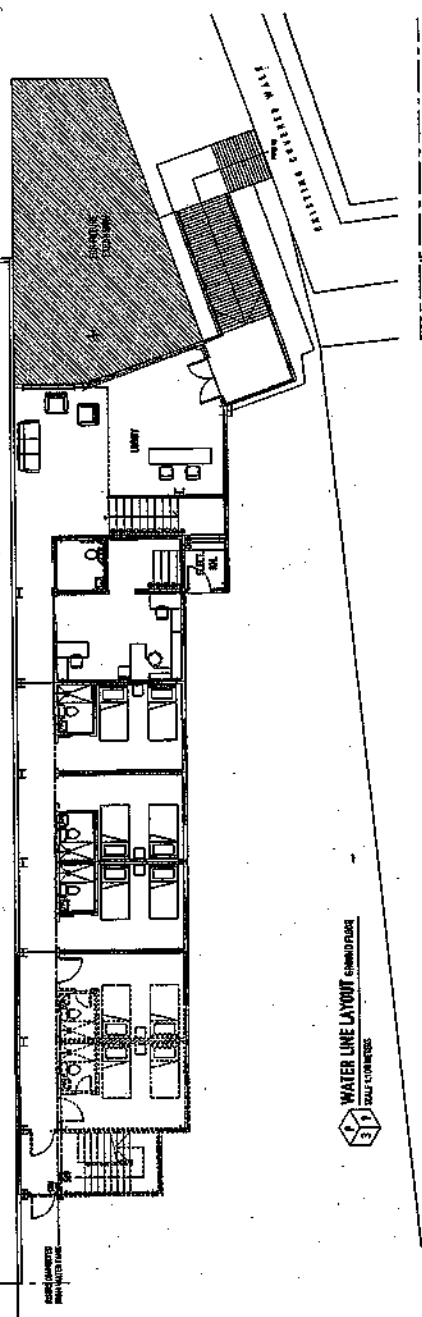


IMPROVING THE PHILIPPINES
BY RISE IN THE BUILDING SPECIAL

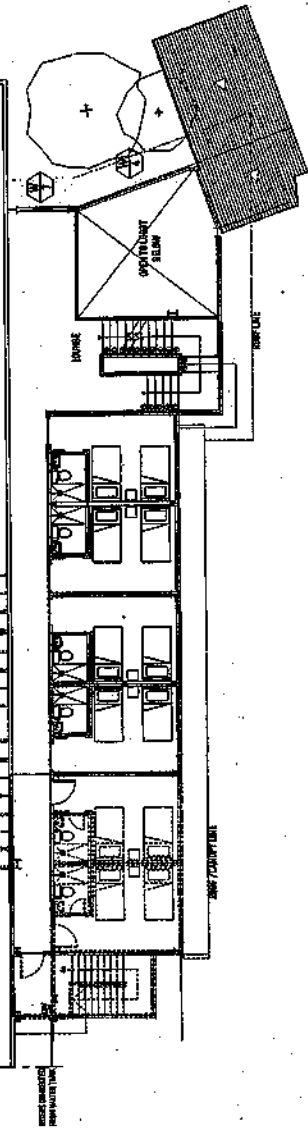
- LEGEND:**
- WATERLINE
 - WASTE WATERLINE
 - STACK VENT LINE
 - RISER
 - WATER METER
 - SHUT-OFF VALVE
 - CHECK VALVE
 - DOWNSPOUT
 - CATCH BASIN
 - LAVABOY
 - WATER CLOSET
 - FLOOR DRAIN
 - VENT STACK THROUGH ROOF
 - WIRE BRASS
- DS
 CB
 LAV
 W/C
 FD
 VSTR
 HB



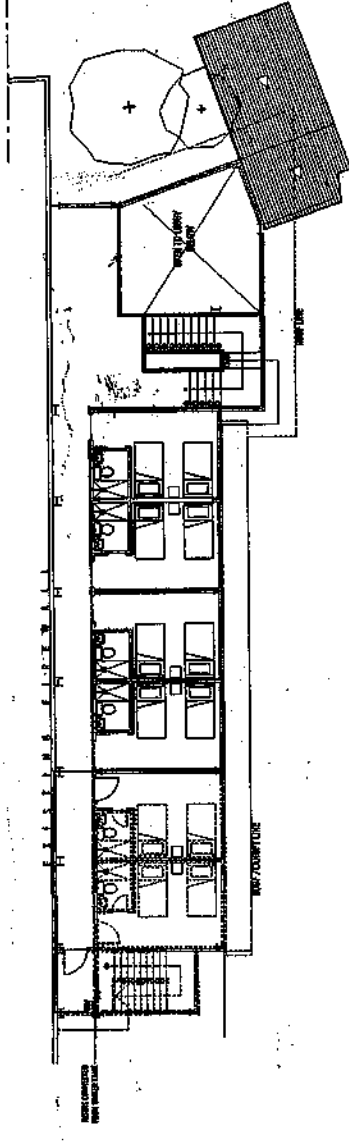
WATER LINE SCHEMATIC DIAGRAM
SCALE: 1/8"=1'-0"



WATER LINE LAYOUT - FIRST FLOOR
SCALE: 1/8"=1'-0"



WATER LINE LAYOUT - SECOND FLOOR
SCALE: 1/8"=1'-0"



WATER LINE LAYOUT - THIRD FLOOR
SCALE: 1/8"=1'-0"



REPUBLIC OF THE PHILIPPINES
MINISTRY OF SCIENCE AND TECHNOLOGY - COORDINATING AGENCIES
INSTITUTIONAL PLANNING AND FACILITY DEVELOPMENT UNIT
GENERAL OFFICE, LINGKUPAN, LAGUNA PROVINCE, PHILIPPINES
TELEPHONE: (02) 8869-1234 / (02) 8869-1235 / (02) 8869-1236 / (02) 8869-1237
WWW.USTIP.ORG.PH

PROJECT: PROPOSED 3-STORY USTIP-COO CAMPUS RESIDENCES BUILDING
PHASE 1
LOCATION: USTIP-COORDINATING AGENCIES AREA, LINGKUPAN, LAGUNA PROVINCE, PHILIPPINES
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY - COORDINATING AGENCIES

DESIGNED BY: DR. JUAN CARLOS L. TORRES
CHECKED BY: DR. JUAN CARLOS L. TORRES
APPROVED BY: DR. JUAN CARLOS L. TORRES
DATE: 10/10/2010

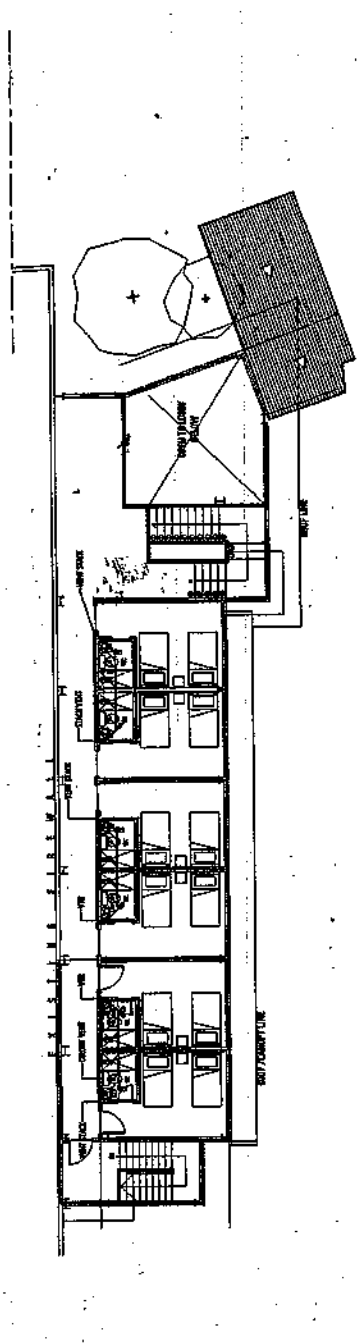
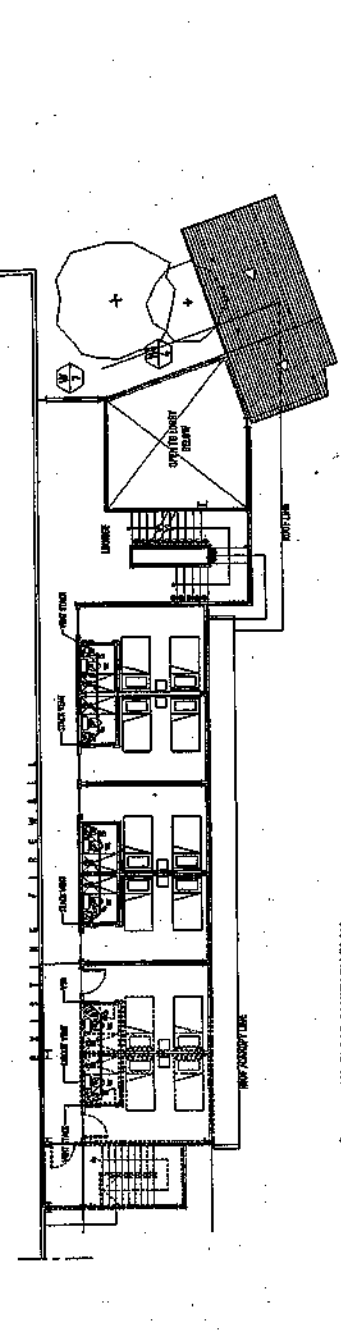
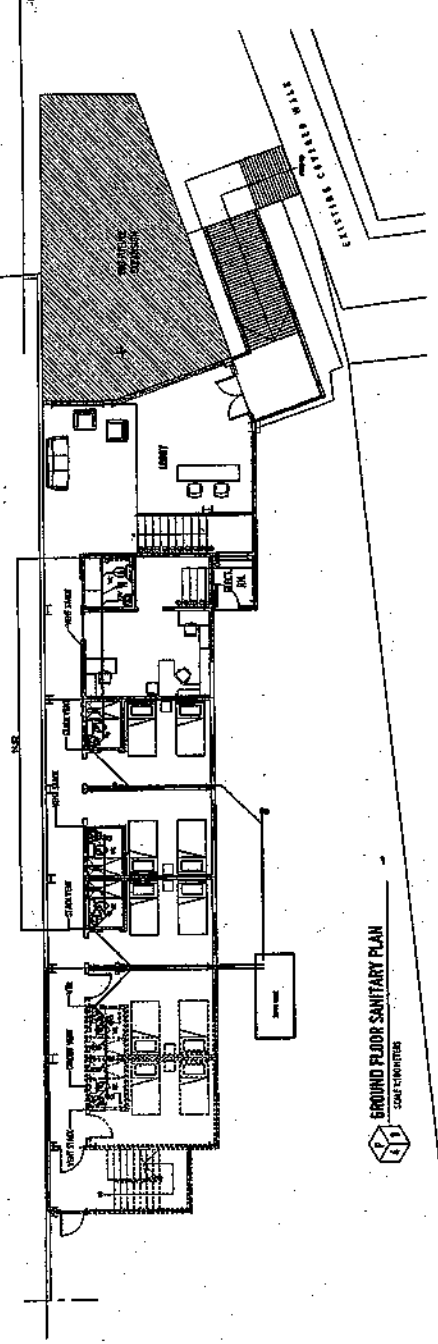
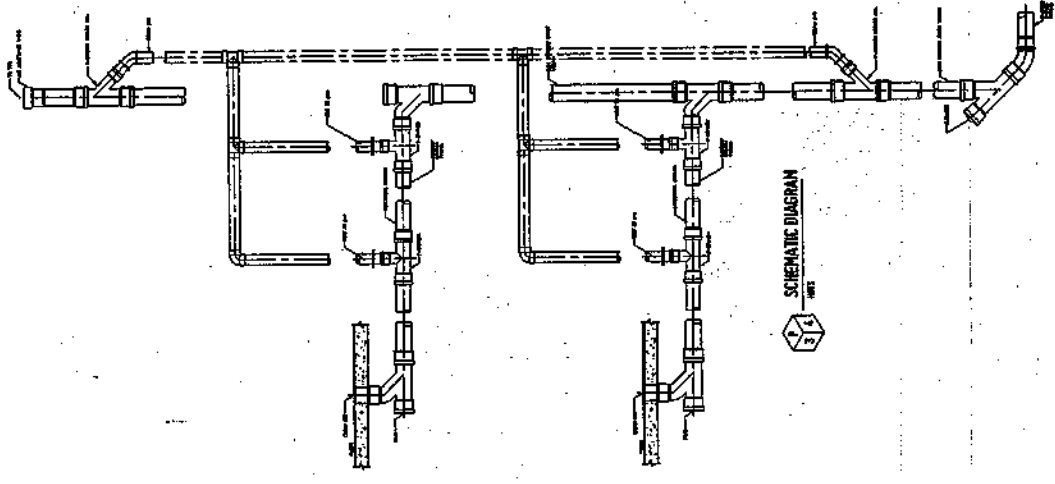
APPROVED BY: DR. JUAN CARLOS L. TORRES
DATE: 10/10/2010

APPROVED BY: DR. JUAN CARLOS L. TORRES
DATE: 10/10/2010

APPROVED BY: DR. JUAN CARLOS L. TORRES
DATE: 10/10/2010

P3

- LEGEND:**
- WATERLINE
 - WASTE WATERLINE
 - STACK VENT LINE
 - RISER
 - WATER METER
 - SHUT-OFF VALVE
 - CHECK VALVE
 - DOWNSPOUT
 - CATCH BASIN
 - LAVATORY
 - WATER CLOSET
 - FOUR DRAIN
 - VEHICLE STACKING ROOF
 - HOUSE RISER
- DS
 CB
 LAV
 WC
 FD
 VSTR
 HB



REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF THE EASTERN PHILIPPINES
COLLEGE OF ENGINEERING
INSTITUTE OF CIVIL ENGINEERING
CAMPUS 3 - STORET USTIP - DOO CAMPUS RESIDENCES BUILDING PHASE 1
1000 UNIVERSITY OF THE EASTERN PHILIPPINES
CAMPUS 3 - STORET USTIP - DOO CAMPUS RESIDENCES BUILDING PHASE 1
1000 UNIVERSITY OF THE EASTERN PHILIPPINES

PROPOSED 3-STORET USTIP-DOO CAMPUS RESIDENCES BUILDING PHASE 1
1000 UNIVERSITY OF THE EASTERN PHILIPPINES
CAMPUS 3 - STORET USTIP - DOO CAMPUS RESIDENCES BUILDING PHASE 1
1000 UNIVERSITY OF THE EASTERN PHILIPPINES

DESIGNED BY: **ATTY. EDUARDO B. BUEY**
BY: **PRO. ADMINISTRATIVE & LEGAL AFFAIRS**

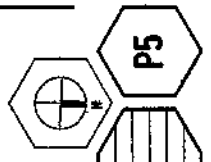
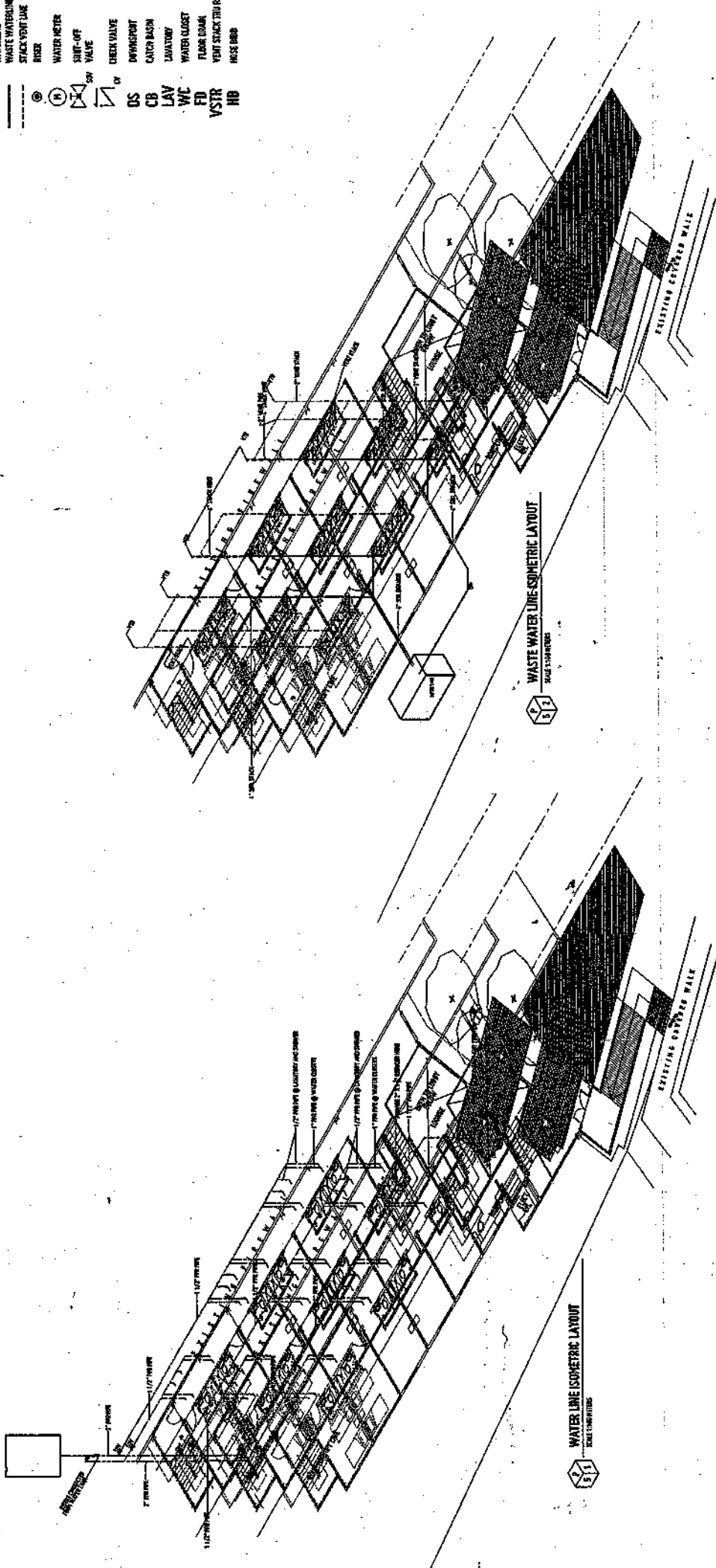
APPROVED BY: **DR. AMELIO B. CULIUBA II**
BY: **OFFICE OF THE BUILDING OFFICIAL**

DATE: _____
DRAWN BY: _____
CHECKED BY: _____

DRINKING WATER SUPPLY
OFFERED BY BUILDING RETAIL

LEGEND:

- WATERLINE
- WASTE WATERLINE
- STACK VENT LINE
- RIBER
- WATER METER
- SHUT-OFF VALVE
- CHECK VALVE
- DOWNSPOUT
- CATCH BASIN
- LAVATORY
- WATER CLOSET
- FLAME DAM
- VENT STACK TO ROOF
- IRISE BARR
- OS
- CB
- LAV
- WC
- FD
- VSTR
- HD



<p>REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SOUTHERN PHILIPPINES COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING</p>		<p>PROJECT: PHASE 1</p>		<p>PROPOSED 3-STORY USTP-COD CAMPUS RESIDENCES BUILDING</p>		<p>DATE: _____</p>	
<p>UNIVERSITY OF SOUTHERN PHILIPPINES COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING DR. AMBROSIO B. CULTURA II REGISTERED PROFESSIONAL CIVIL ENGINEER</p>		<p>PROJECT NUMBER: _____</p>		<p>SCALE: _____</p>		<p>DATE: _____</p>	
<p>UNIVERSITY OF SOUTHERN PHILIPPINES COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING DR. AMBROSIO B. CULTURA II REGISTERED PROFESSIONAL CIVIL ENGINEER</p>		<p>DATE: _____</p>		<p>DATE: _____</p>		<p>DATE: _____</p>	
<p>UNIVERSITY OF SOUTHERN PHILIPPINES COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING DR. AMBROSIO B. CULTURA II REGISTERED PROFESSIONAL CIVIL ENGINEER</p>		<p>DATE: _____</p>		<p>DATE: _____</p>		<p>DATE: _____</p>	



GENERAL NOTES

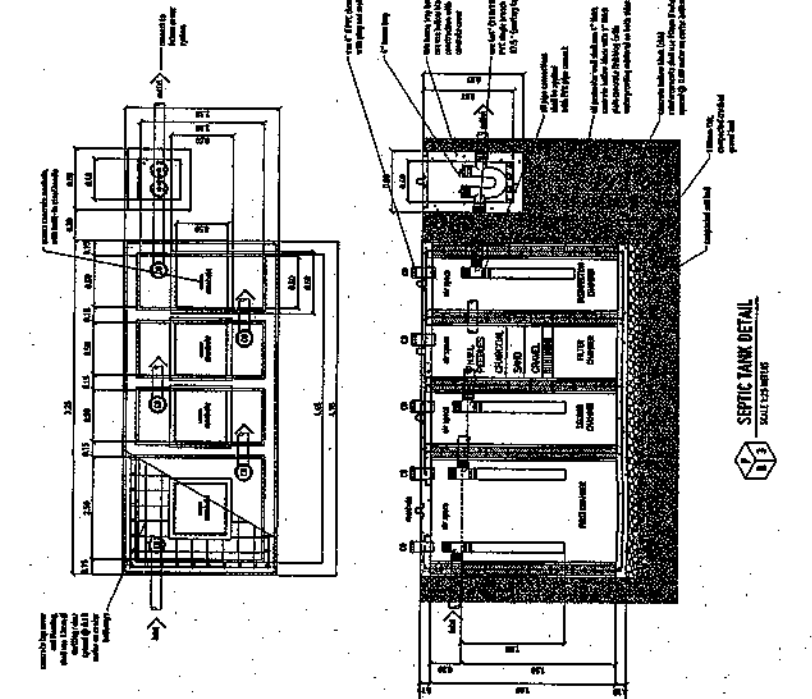
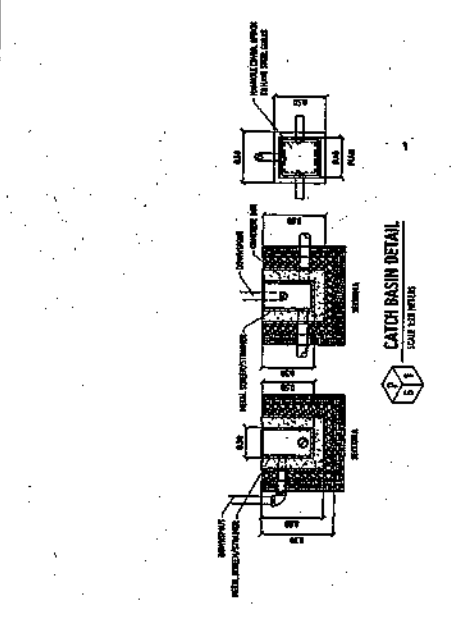
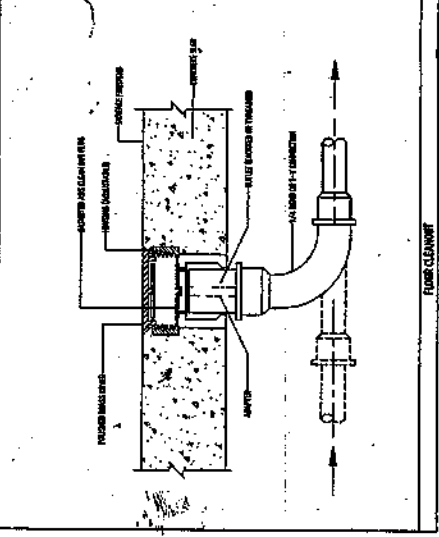
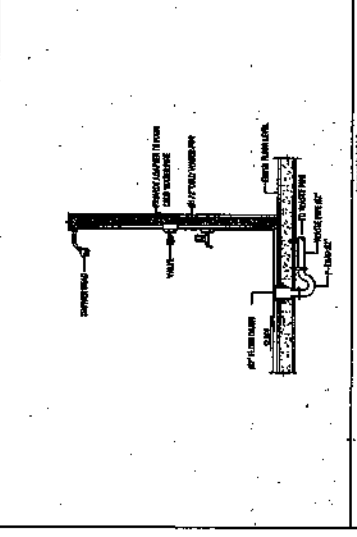
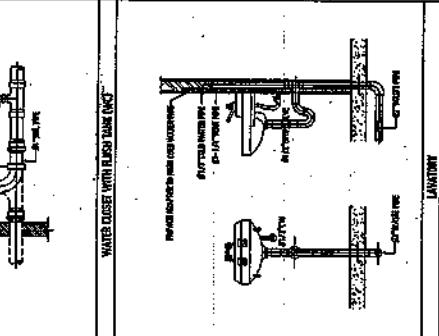
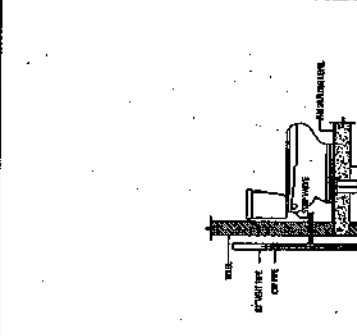
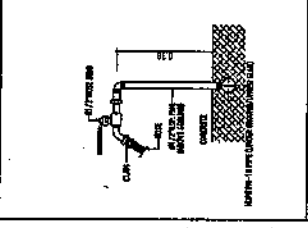
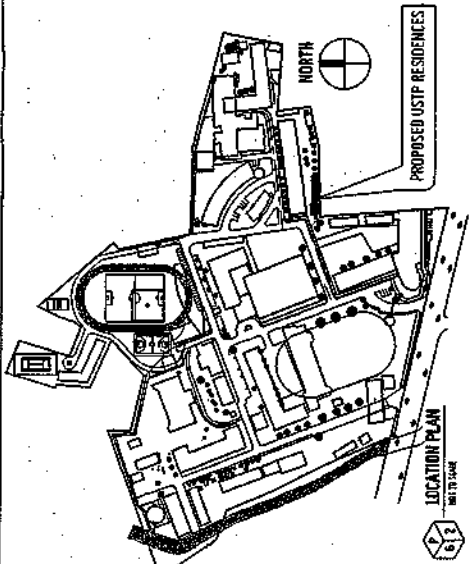
1. THE WORKMAN SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE REPAIRED AT THE WORKMAN'S RISK AND EXPENSE. THE WORKMAN SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE REPAIRED AT THE WORKMAN'S RISK AND EXPENSE.

2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PHILIPPINE NATIONAL STANDARD (PNS) AND THE NATIONAL BUILDING CODE (NBC). THE WORKMAN SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE REPAIRED AT THE WORKMAN'S RISK AND EXPENSE.

3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PHILIPPINE NATIONAL STANDARD (PNS) AND THE NATIONAL BUILDING CODE (NBC). THE WORKMAN SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE REPAIRED AT THE WORKMAN'S RISK AND EXPENSE.

Planing Symbol

- 1. Concrete
- 2. Masonry
- 3. Steel Deck
- 4. Steel Joist
- 5. Steel Beam
- 6. Steel Column
- 7. Steel Truss
- 8. Steel Girder
- 9. Steel I-Beam
- 10. Steel Channel
- 11. Steel Angle
- 12. Steel Plate
- 13. Steel Pipe
- 14. Steel Tube
- 15. Steel Rod
- 16. Steel Bolt
- 17. Steel Nut
- 18. Steel Washer
- 19. Steel Rivet
- 20. Steel Weld



DATE	REVISION

PROPOSED 3-STORY USTP-C03 CAMPUS RESIDENCES BUILDING
PHASE 1
USTP-C03 CAMPUS, CAL. BICAL, JARANG, LAGUNA, CALABANZON, NEGROS OCCIDENTAL
UNIVERSITY OF SOUTHERN PHILIPPINES - CALABANZON CAMPUS

PROJECT	DATE

UNIVERSITY OF SOUTHERN PHILIPPINES
CALABANZON CAMPUS
INTEGRATED PLANNING AND FACILITY DEVELOPMENT UNIT
CALABANZON CAMPUS, CALABANZON, NEGROS OCCIDENTAL
UNIVERSITY OF SOUTHERN PHILIPPINES



DR. ANTONIO B. CULTURA II
PROJECT ARCHITECT

DR. JERONIMO B. BUSTOZA
PROJECT ARCHITECT

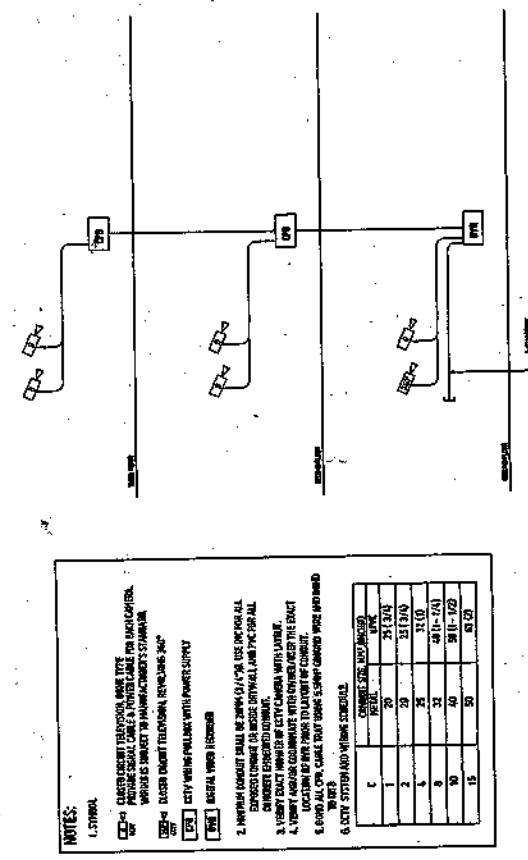
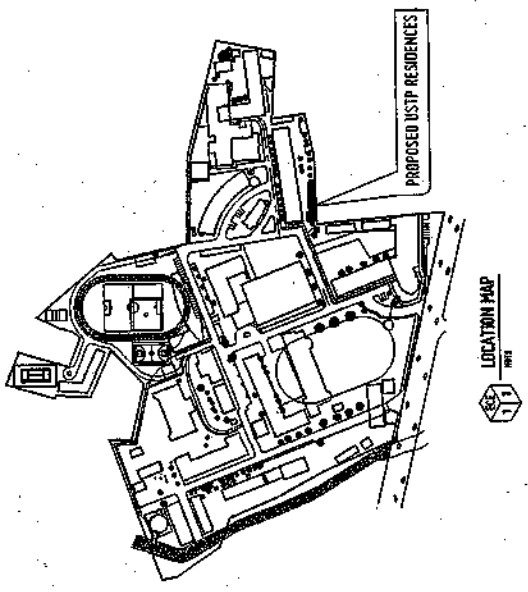
GENERAL NOTE:

1. THE ALARM SYSTEM SHALL BE OPERATIONAL AT THE TIME OF THE COMMENCEMENT OF THE PROJECT AND SHALL REMAIN OPERATIONAL THROUGHOUT THE PROJECT. THE BIDDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SYSTEM THROUGHOUT THE PROJECT.
2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES. THE BIDDING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
3. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES. THE BIDDING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
4. THE CONTRACTOR SHALL VERIFY AND REPORT THE ACTUAL LOCATION OF THE WATER MAIN AND GAS MAINS TO THE BIDDING CONTRACTOR. THE BIDDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES DURING THE CONSTRUCTION OF THE PROJECT.
5. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES. THE BIDDING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES DURING THE CONSTRUCTION OF THE PROJECT.
7. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES. THE BIDDING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES DURING THE CONSTRUCTION OF THE PROJECT.
9. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES. THE BIDDING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES DURING THE CONSTRUCTION OF THE PROJECT.
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12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES DURING THE CONSTRUCTION OF THE PROJECT.

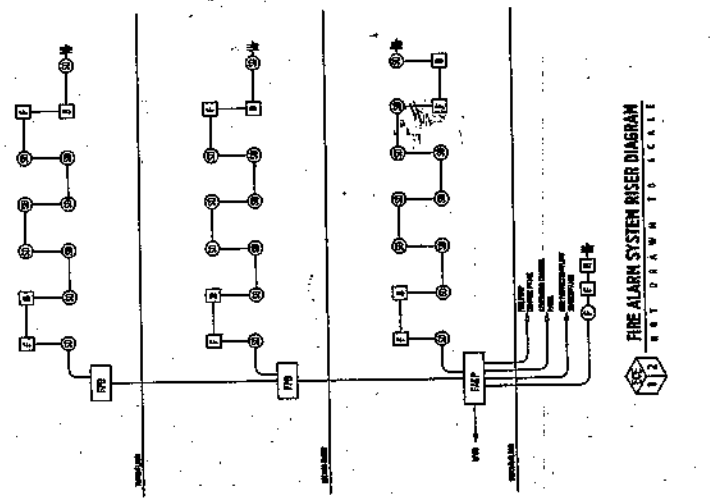
NOTES:

1. THE ALARM SYSTEM SHALL BE OPERATIONAL AT THE TIME OF THE COMMENCEMENT OF THE PROJECT AND SHALL REMAIN OPERATIONAL THROUGHOUT THE PROJECT.
2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES. THE BIDDING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
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WIRE SIZE	NUMBER OF WIRING CHANNELS	CONDUIT SIZE	NUMBER OF WIRING CHANNELS	CONDUIT SIZE	NUMBER OF WIRING CHANNELS	CONDUIT SIZE
14	1	1/2"	1	1/2"	1	1/2"
12	1	1/2"	1	1/2"	1	1/2"
10	1	1/2"	1	1/2"	1	1/2"
8	1	1/2"	1	1/2"	1	1/2"
6	1	1/2"	1	1/2"	1	1/2"
4	1	1/2"	1	1/2"	1	1/2"
3	1	1/2"	1	1/2"	1	1/2"
2	1	1/2"	1	1/2"	1	1/2"
1	1	1/2"	1	1/2"	1	1/2"



CCTV SYSTEM RISER DIAGRAM
NOT DRAWN TO SCALE



FIRE ALARM SYSTEM RISER DIAGRAM
NOT DRAWN TO SCALE

NOTES:

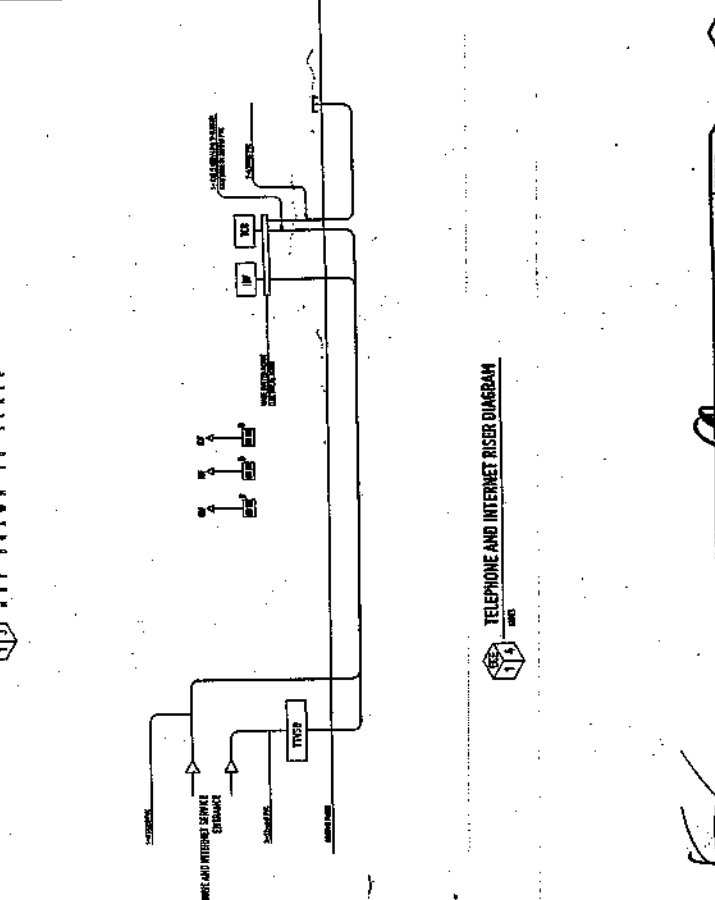
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12	1	1/2"	1	1/2"	1	1/2"
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8	1	1/2"	1	1/2"	1	1/2"
6	1	1/2"	1	1/2"	1	1/2"
4	1	1/2"	1	1/2"	1	1/2"
3	1	1/2"	1	1/2"	1	1/2"
2	1	1/2"	1	1/2"	1	1/2"
1	1	1/2"	1	1/2"	1	1/2"

REMARKS OF THE REGISTERED PROFESSIONAL ENGINEER:

APPROVED BY: _____

DATE: _____



TELEPHONE AND INTERNET RISER DIAGRAM
NOT DRAWN TO SCALE

ECE1

APPROVED BY: _____

DATE: _____

PROPOSED 3-STORY USTP-COO CAMPUS RESIDENCES BUILDING
PHASE 1
USTP-COO CAMPUS, C.A. NORTH AVENUE, LAGUNA CANTON, CAGAYAN DE ORO CITY
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CAGAYAN PROVINCE

PROFESSIONAL ELECTRICAL ENGINEER
NAME: _____
LICENSE NO.: _____
DATE: _____

REMARKS OF THE REGISTERED PROFESSIONAL ENGINEER:

APPROVED BY: _____

DATE: _____



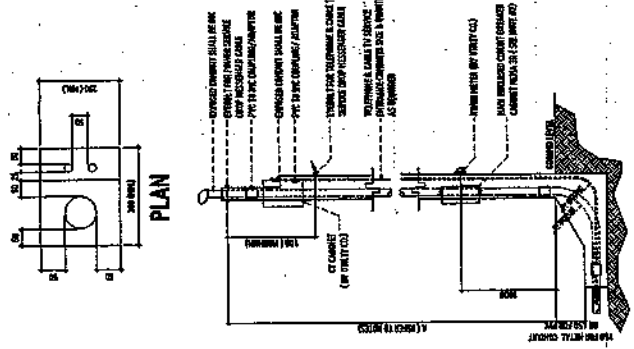
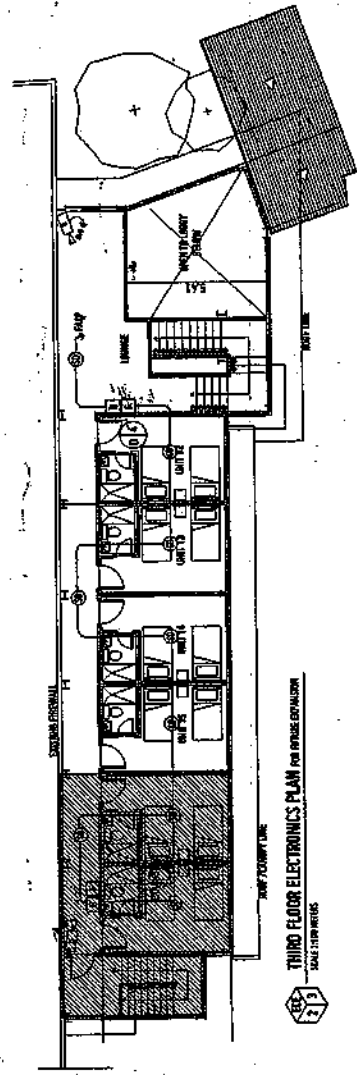
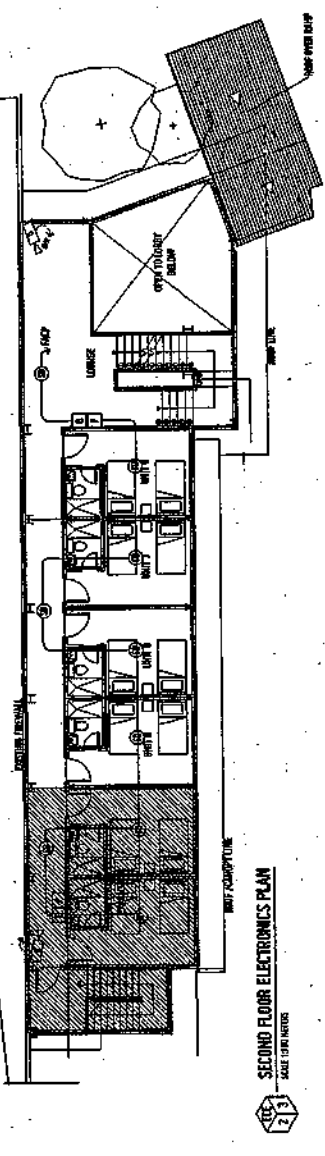
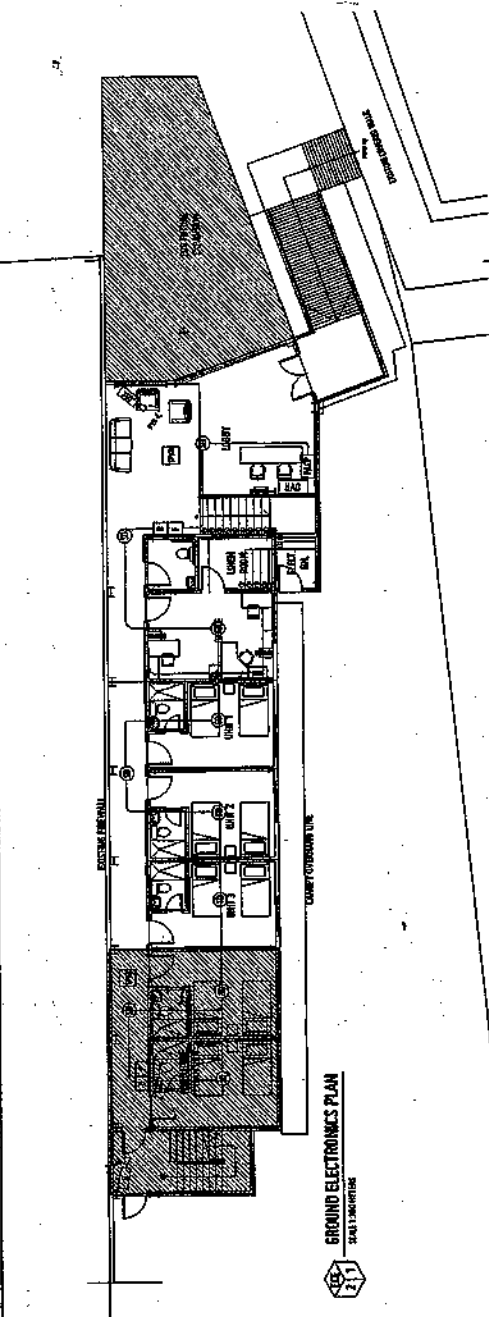
WORKING SYSTEMS SHALL BE IDENTIFIED BY A DASHED LINE AND SHALL BE KEPT OPEN TO THE STREET.

APPENDIX:

1. ALL SYSTEMS SHALL BE KEPT OPEN TO THE STREET.
2. ALL SYSTEMS SHALL BE KEPT OPEN TO THE STREET.
3. ALL SYSTEMS SHALL BE KEPT OPEN TO THE STREET.
4. ALL SYSTEMS SHALL BE KEPT OPEN TO THE STREET.
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LEGEND:

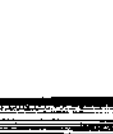
- 1. SINGLE TELEPHONE WALL OUTLET, 2-WIRE
- 2. DOUBLE TELEPHONE WALL OUTLET, 2-WIRE
- 3. SINGLE TELEPHONE WALL OUTLET, 2-WIRE AND DATA
- 4. DOUBLE TELEPHONE WALL OUTLET, 2-WIRE AND DATA
- 5. SINGLE TELEPHONE WALL OUTLET, 2-WIRE AND DATA AND WIRELESS
- 6. DOUBLE TELEPHONE WALL OUTLET, 2-WIRE AND DATA AND WIRELESS
- 7. SINGLE TELEPHONE WALL OUTLET, 2-WIRE AND DATA AND WIRELESS AND WIRELESS
- 8. DOUBLE TELEPHONE WALL OUTLET, 2-WIRE AND DATA AND WIRELESS AND WIRELESS
- 9. SINGLE TELEPHONE WALL OUTLET, 2-WIRE AND DATA AND WIRELESS AND WIRELESS AND WIRELESS
- 10. DOUBLE TELEPHONE WALL OUTLET, 2-WIRE AND DATA AND WIRELESS AND WIRELESS AND WIRELESS



PROJECT: PROPOSED 3-STORY (USTP-COO) CAMPUS RESIDENCES BUILDING PHASE 1
 LOCATION: WEST CAMPUS, C.E. WELLS NATIONAL LIBRARY, CAGANAN BEHOLD CITY
 OWNER: UNIVERSITY OF SOUTHERN PHILIPPINES

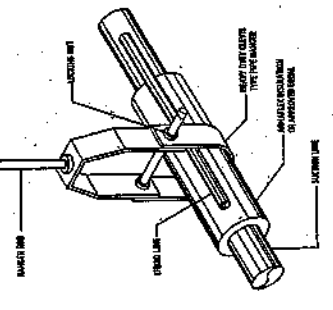
DESIGNING ARCHITECT: DR. ANTONIO S. CORTA II
 ARCHITECT: ATTY. ERMILAN E. BUREAU
 ARCHITECT: ATTY. ESTERITA M. BUREAU

UNIVERSITY OF SOUTHERN PHILIPPINES
 OFFICE OF ARCHITECTURE AND PLANNING
 UNIVERSITY OF SOUTHERN PHILIPPINES
 CAGANAN BEHOLD CITY, DAVAO DEL SUR
 TEL: (082) 326-1000 | FAX: (082) 326-1001 | WWW.USP.EDU.PH

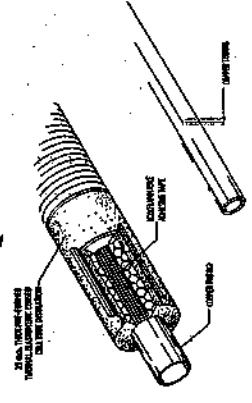


APPROVED BY:

- GENERAL NOTES:**
1. ALL MECHANICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE RELEVANT PHILIPPINE STANDARDS AND CODES. IN THE ABSENCE OF SUCH STANDARDS, THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND ENGINEER FOR THE LOCAL GOVERNMENT.
 2. THE FINAL SCOPES OF WORK SHALL INCLUDE ALL WORKS OCCURRING IN THIS PARTICULAR IN THE TERMINAL SPECIFICATIONS FOR RELEVANT WORKS.
 3. THE WORK SHALL BE CONDUCTED IN ACCORDANCE WITH ALL RELEVANT STANDARDS.
 4. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT AND ALL CONCERNED AGENCIES AND AUTHORITIES.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN.
 6. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE RELEVANT PHILIPPINE STANDARDS AND CODES.
 7. ALL MATERIALS AND EQUIPMENT SHALL BE STORED IN A SECURE AND DRY PLACE TO PREVENT DAMAGE AND LOSS.
 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SUPPORT OF ALL MECHANICAL EQUIPMENT.
 9. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL MECHANICAL EQUIPMENT AND SHALL BE RESPONSIBLE FOR THE PROTECTION AND SUPPORT OF ALL MECHANICAL EQUIPMENT.
 10. ALL POWER WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE RELEVANT PHILIPPINE STANDARDS AND CODES.
 11. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE RELEVANT PHILIPPINE STANDARDS AND CODES.
 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SUPPORT OF ALL MECHANICAL EQUIPMENT.
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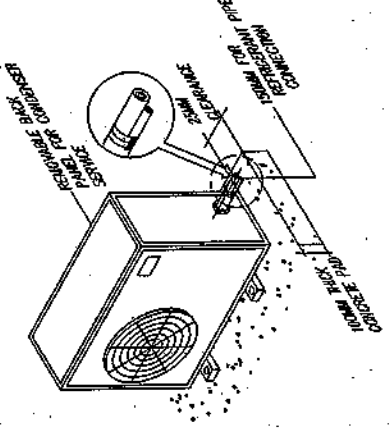


REFRIGERANT PIPE HANGER DETAIL
SEE 2/2
NOT TO SCALE

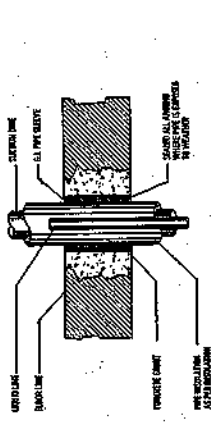


- NOTES:**
1. INSULATION SHALL BE INSTALLED OVER THE ENTIRE LENGTH OF THE PIPE.
 2. INSULATION SHALL BE INSTALLED OVER THE ENTIRE LENGTH OF THE PIPE.

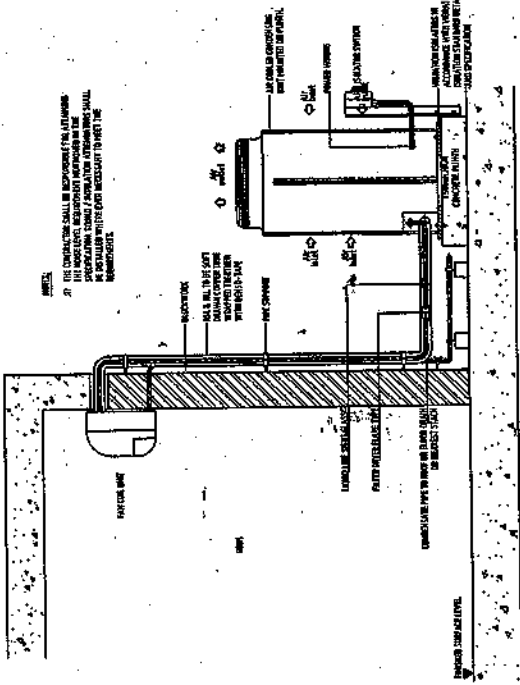
REFRIGERANT PIPE INSULATION DETAIL
SEE 2/3
NOT TO SCALE



ACCESS MOUNTING DETAIL
SEE 2/4
NOT TO SCALE

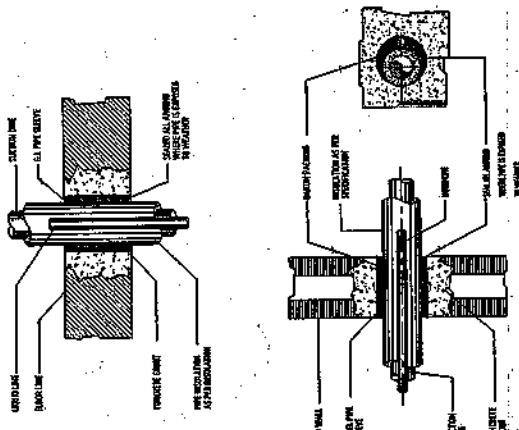


TYPICAL SPLICE-TYPE CONNECTION DETAIL
SEE 2/5
NOT TO SCALE



- NOTES:**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SUPPORT OF ALL MECHANICAL EQUIPMENT.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SUPPORT OF ALL MECHANICAL EQUIPMENT.

TYPICAL SPLICE-TYPE CONNECTION DETAIL
SEE 2/5
NOT TO SCALE



REFRIGERANT PIPE THROUGH WALL DETAIL
SEE 2/6
NOT TO SCALE

- NOTES ON PIPING INSTALLATION:**
1. REFRIGERANT PIPES SHALL BE INSTALLED IN ACCORDANCE WITH THE RELEVANT PHILIPPINE STANDARDS AND CODES.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SUPPORT OF ALL MECHANICAL EQUIPMENT.
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 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SUPPORT OF ALL MECHANICAL EQUIPMENT.

M2

DATE	REVISION

APPROVED BY:
DR. ANTONIO M. CULIOTTA II
REGISTERED ELECTRICAL ENGINEER

RECOMMENDED APPROVAL:
ATTY. SEBASTIAN B. BUNY
REGISTERED ATTORNEY AT LAW

RECOMMENDED APPROVAL:
DR. ANTONIO M. CULIOTTA II
REGISTERED ELECTRICAL ENGINEER

PROPOSED 3-STORY USTP-CRO CAMPUS RESIDENCES BUILDING
PHASE 1
USTP-CRO CAMPUS, CAGAYAN DE ORO, NEGROS OCCIDENTAL, VISAYAS, PHILIPPINES
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF NEGROS PHILIPPINES

PROJECT	LOCATION	OWNER

REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF NEGROS PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT
CLASSIFICATION: CONFIDENTIAL
DATE: 2024-08-20
PROJECT NO.: USTP-CRO/2024/001



GENERAL NOTES :

1. ALL WORK SHALL BE ACCORDING TO THE PHILIPPINE NATIONAL FIRE PROTECTION CODE (NFPA 101).
2. ALL WORK SHALL BE ACCORDING TO THE PHILIPPINE NATIONAL FIRE PROTECTION CODE (NFPA 101).
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MATERIAL SPECIFICATIONS :

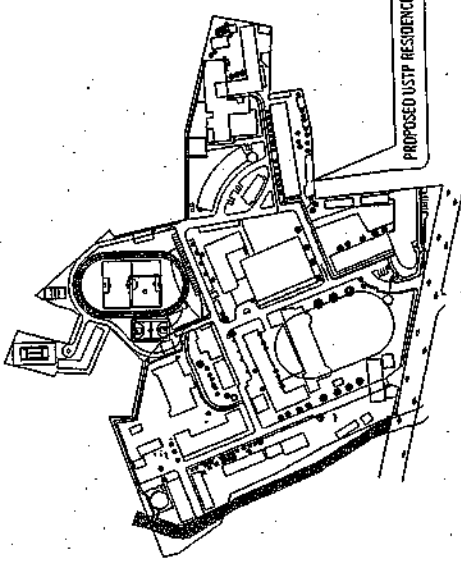
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LEGEND :

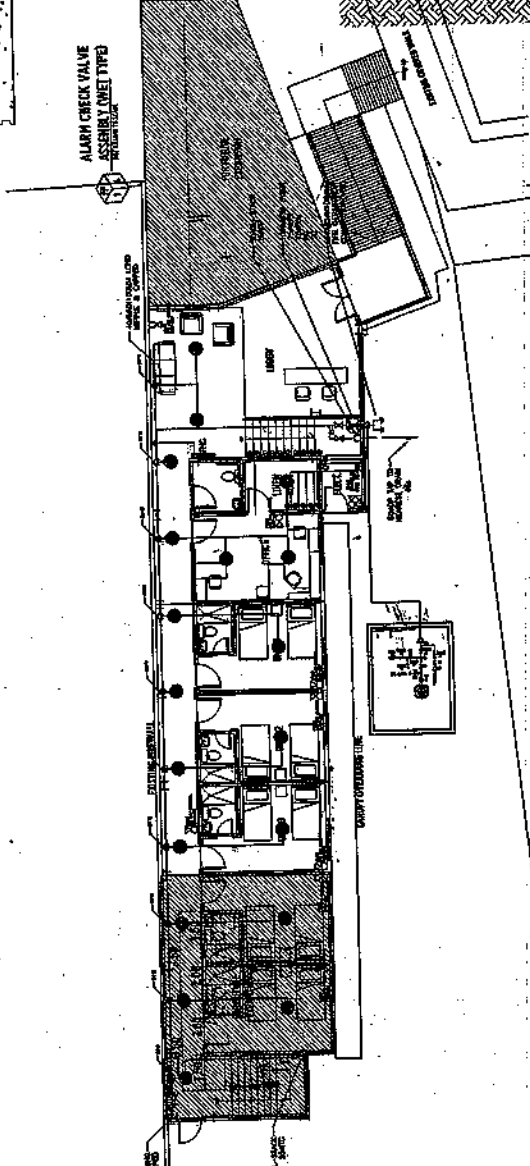
- 1. FIRE PROTECTION CODE (NFPA 101)
- 2. FIRE PROTECTION CODE (NFPA 101)
- 3. FIRE PROTECTION CODE (NFPA 101)
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ABBREVIATION :

- 1. FIRE PROTECTION CODE (NFPA 101)
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- 14. FIRE PROTECTION CODE (NFPA 101)
- 15. FIRE PROTECTION CODE (NFPA 101)



LOCATION MAP

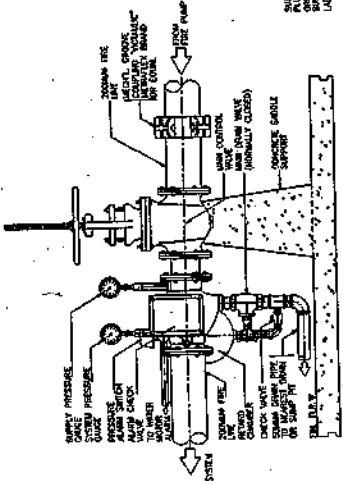


FIRE PROTECTION LAYOUT

SCALE

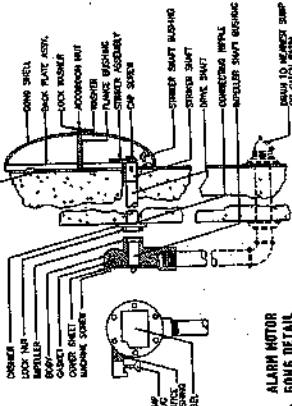
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15. ALL WORK SHALL BE ACCORDING TO THE PHILIPPINE NATIONAL FIRE PROTECTION CODE (NFPA 101).

FLOW MEASURING DEVICE DETAIL



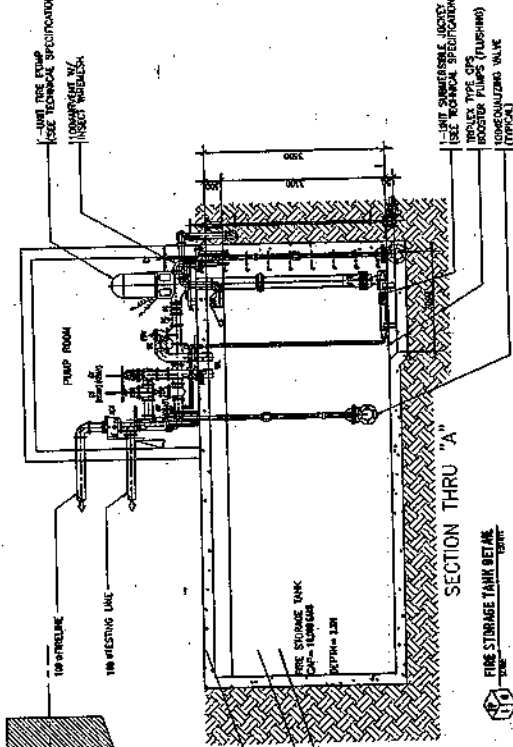
ALARM BELL

ELEVATION



ALARM MOTOR BONGS DETAIL

SECTIONAL



FP1

PROJECT: PROPOSED 3-STORY USTP-CDD CAMPUS RESIDENCES BUILDING PHASE 1
LOCATION: 1579-CDD CAMPUS, C.A. WITHIN THE CAMPUS, UNIVERSITY OF SANTO TOMAS MALABAL
DATE: 15/05/2024

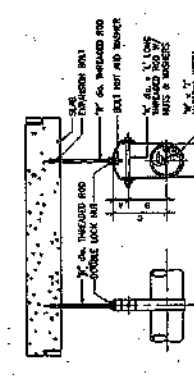
DESIGNED BY: DR. ANTHONY B. TORRES
CHECKED BY: ATTY. LEONARDO B. BUSTO
DATE: 15/05/2024

REVIEWED BY: DR. ANTHONY B. TORRES
DATE: 15/05/2024

REGISTERED PROFESSIONAL ENGINEER
PHILIPPINE PROFESSIONAL ENGINEERS BOARD
REGISTERED NO. 1579-CDD CAMPUS, C.A. WITHIN THE CAMPUS, UNIVERSITY OF SANTO TOMAS MALABAL
DATE: 15/05/2024

UNIVERSITY OF SANTO TOMAS MALABAL
INSTITUTE OF ARCHITECTURE, PLANNING AND FACILITY DEVELOPMENT (IAF)
CLAYTON AVENUE, LAGUNA, CALABANG BRANCH, CDD CAMPUS
TEL: 0917-889-2727 | 0917-889-2728 | 0917-889-2729 | 0917-889-2730
WWW.USTMALABAL.EDU.PH

UNIVERSITY OF THE PHILIPPINES
OFFICE OF THE REGISTRAR GENERAL

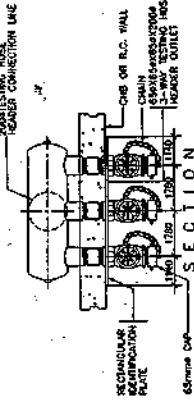


ELEVATION
FIRE HOSE CABINET DETAIL

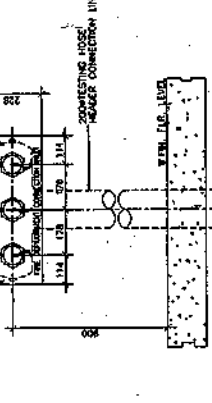
TABLE OF DIMENSIONS IN MM

SIZE	W	H	D	W x H	H x L
100mm (4")	114	178	54	114 x 178	114 x 178
125mm (5")	141	205	81	141 x 205	141 x 205
150mm (6")	168	232	108	168 x 232	168 x 232
175mm (7")	195	259	135	195 x 259	195 x 259
200mm (8")	222	286	162	222 x 286	222 x 286
225mm (9")	249	313	189	249 x 313	249 x 313
250mm (10")	276	340	216	276 x 340	276 x 340

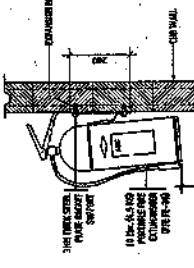
TYPE HANGER DETAIL
TEST SERIES IS TEST 1



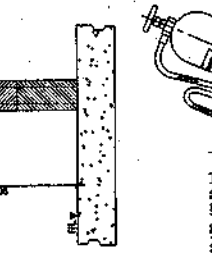
SECTION
FIRE HOSE CABINET DETAIL



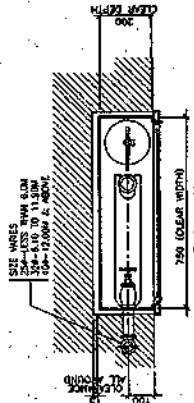
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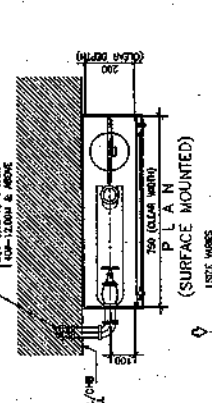
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FIRE HOSE CABINET DETAIL



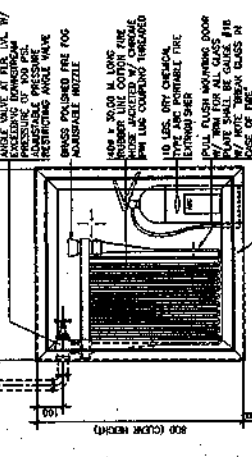
ELEVATION
FIRE HOSE CABINET DETAIL



PLAN
FIRE HOSE CABINET DETAIL



PLAN
FIRE HOSE CABINET DETAIL



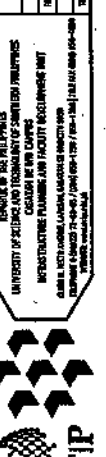
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FIRE HOSE CABINET DETAIL



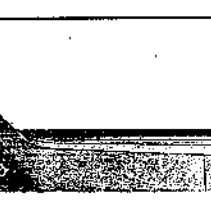
ELEVATION
FIRE HOSE CABINET DETAIL



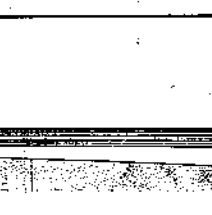
ELEVATION
FIRE HOSE CABINET DETAIL



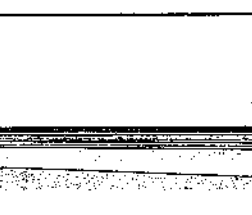
ELEVATION
FIRE HOSE CABINET DETAIL



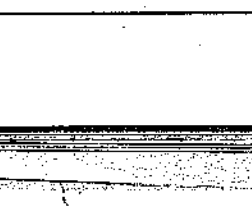
ELEVATION
FIRE HOSE CABINET DETAIL



ELEVATION
FIRE HOSE CABINET DETAIL



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FIRE HOSE CABINET DETAIL



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ELEVATION
FIRE HOSE CABINET DETAIL



ELEVATION
FIRE HOSE CABINET DETAIL

FP3

NO.	DATE	REVISION

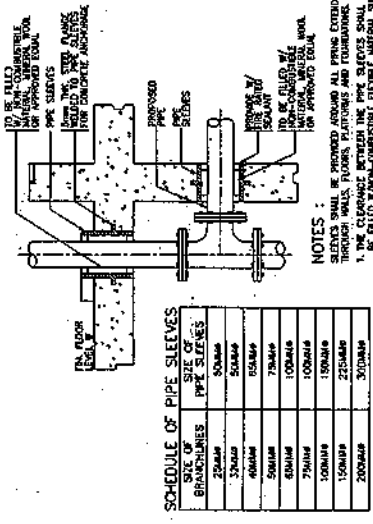
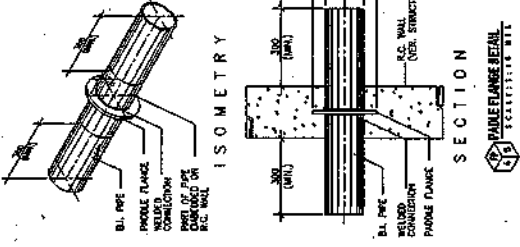
DESIGNED BY: *[Signature]*
 CHECKED BY: *[Signature]*
 APPROVED BY: *[Signature]*
 TITLE: FIRE HOSE CABINET DETAIL

PROPOSED 3-STORY USTP-CDD CAMPUS RESIDENCES BUILDING
 PHASE 1
 USTP-CDD CAMPUS, MALABON, LAGUNA, CALABARZON, PHILIPPINES
 UNIVERSITY OF THE PHILIPPINES

PROJECT: *[Signature]*
 LOCATION: *[Signature]*
 OWNER: *[Signature]*
 DATE: *[Signature]*
 SCALE: *[Signature]*

ENGINEER OF THE PHILIPPINES
 UNIVERSITY OF THE PHILIPPINES
 OFFICE OF THE REGISTRAR GENERAL
 REGISTERED PROFESSIONAL ENGINEER
 REGISTERED PROFESSIONAL ARCHITECT
 REGISTERED PROFESSIONAL ELECTRICAL ENGINEER
 REGISTERED PROFESSIONAL MECHANICAL ENGINEER
 REGISTERED PROFESSIONAL CIVIL ENGINEER
 REGISTERED PROFESSIONAL CHEMICAL ENGINEER
 REGISTERED PROFESSIONAL METALLURGICAL ENGINEER
 REGISTERED PROFESSIONAL AGRICULTURAL ENGINEER
 REGISTERED PROFESSIONAL INDUSTRIAL ENGINEER
 REGISTERED PROFESSIONAL MARINE ENGINEER
 REGISTERED PROFESSIONAL AERONAUTICAL ENGINEER
 REGISTERED PROFESSIONAL ENVIRONMENTAL ENGINEER
 REGISTERED PROFESSIONAL FOOD ENGINEER
 REGISTERED PROFESSIONAL FIBRE ENGINEER
 REGISTERED PROFESSIONAL FISH ENGINEER
 REGISTERED PROFESSIONAL FISH PATHOLOGIST
 REGISTERED PROFESSIONAL FISH PHYSIOLOGIST
 REGISTERED PROFESSIONAL FISH REPRODUCTIVE SPECIALIST
 REGISTERED PROFESSIONAL FISH WELFARE SPECIALIST
 REGISTERED PROFESSIONAL FISH WHOLESALE MARKETING SPECIALIST
 REGISTERED PROFESSIONAL FISH PROCESSING SPECIALIST
 REGISTERED PROFESSIONAL FISH STORAGE SPECIALIST
 REGISTERED PROFESSIONAL FISH TRANSPORT SPECIALIST
 REGISTERED PROFESSIONAL FISH DISTRIBUTION SPECIALIST
 REGISTERED PROFESSIONAL FISH EXPORT SPECIALIST
 REGISTERED PROFESSIONAL FISH IMPORT SPECIALIST
 REGISTERED PROFESSIONAL FISH PROCESSING SPECIALIST
 REGISTERED PROFESSIONAL FISH STORAGE SPECIALIST
 REGISTERED PROFESSIONAL FISH TRANSPORT SPECIALIST
 REGISTERED PROFESSIONAL FISH DISTRIBUTION SPECIALIST
 REGISTERED PROFESSIONAL FISH EXPORT SPECIALIST
 REGISTERED PROFESSIONAL FISH IMPORT SPECIALIST

USTP

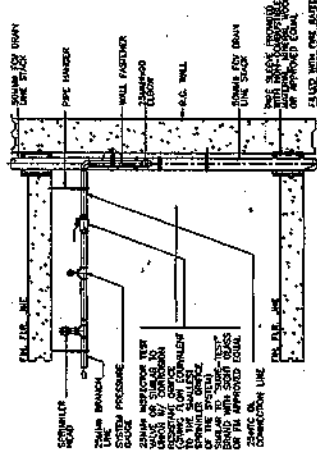
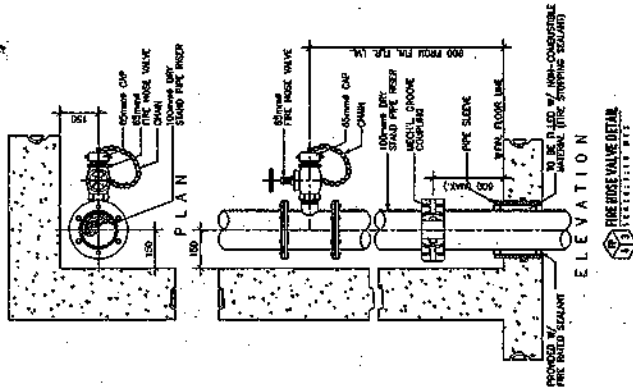


SCHEDULE OF PIPE SLEEVES

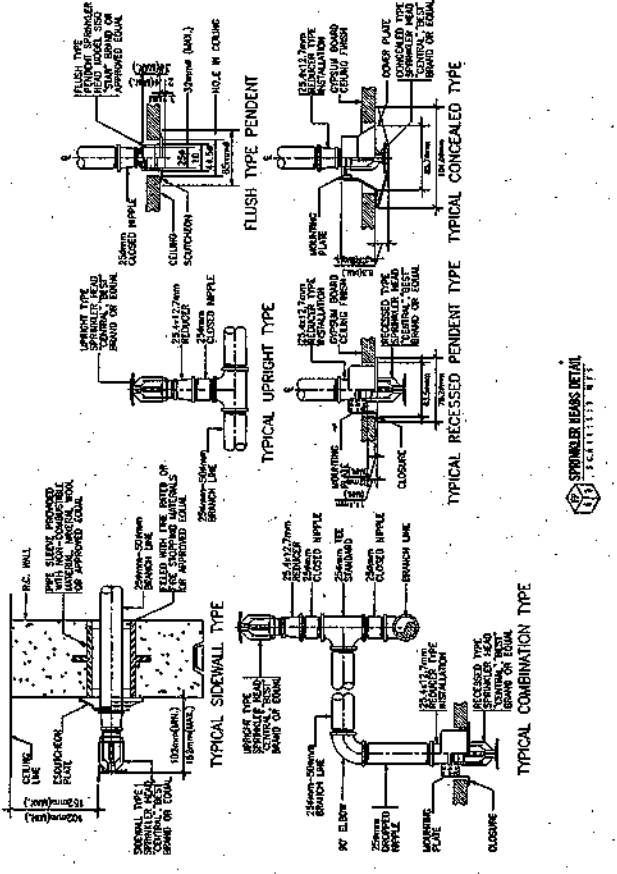
SIZE OF BRICKWORK	SIZE OF PIPE SLEEVES
200mm	200mm
250mm	250mm
300mm	300mm
400mm	400mm
500mm	500mm
600mm	600mm
700mm	700mm
800mm	800mm
1000mm	1000mm
1500mm	1500mm
2000mm	2000mm

- NOTES:
- SLEEVES SHALL BE PROVIDED AROUND ALL PIPES EXTENDING THROUGH WALL, FLOOR, CEILING AND FOUNDATION.
 - THE SLEEVES SHALL BE SUBMITTED TO NATIONAL BUREAU OF FIRE PROTECTION FOR APPROVAL.
 - BE FILLED WITH COMPACTIBLE, FLEXIBLE MATERIAL SUCH AS AMBER, WOOL, FIBROUS OR FOAMULIN.
 - MINIMUM CLEARANCE BETWEEN PIPE AND SLEEVES SHALL NOT BE LESS THAN 10MM FOR WALL AND LARGER FLOOR SLEEVES SHALL BE EXTENDED AT LEAST 75mm ABOVE THE TOP OF THE WEARING SURFACE.

INSPECTOR TEST CONNECTION DETAIL
DATE: 11/11/2011



INSPECTOR TEST CONNECTION DETAIL
DATE: 11/11/2011



SPRINKLER HEADS DETAIL
1/2\"/>

EQUIPMENT	TYPE	CAPACITY, GPM	APPROX. TDH, psf	MOTOR (HP)	ELECTRICAL CHARACTERISTIC	REMARKS
FIRE PUMP WITH CONTROLLER				VOLTS	PHASE	HERTZ
JOCKEY PUMP						

TO BE SPECIFIED BY THE PROFESSIONAL MECHANICAL ENGINEER

PH EQUIPMENT SCHEDULE
1/2\"/>



PROPOSED 3-STORY WSTP-COD CAMPUS RESIDENCES BURLING PHASE 1
USTP-COD CAMPUS, P.A. BETA WING, LUPATON, CALAMBA, ILO ILO CITY
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

PROFESSIONAL INFORMATION	PHASE	DATE	SCALE
NAME			
DATE			

REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
INSTITUTE OF ARCHITECTURE AND FACILITY MANAGEMENT (IAFM)
CAMPUS PLANNING AND DESIGN DIVISION (CPDD)
1501 BETA WING, LUPATON, CALAMBA, ILO ILO CITY
4014 ILO ILO CITY

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