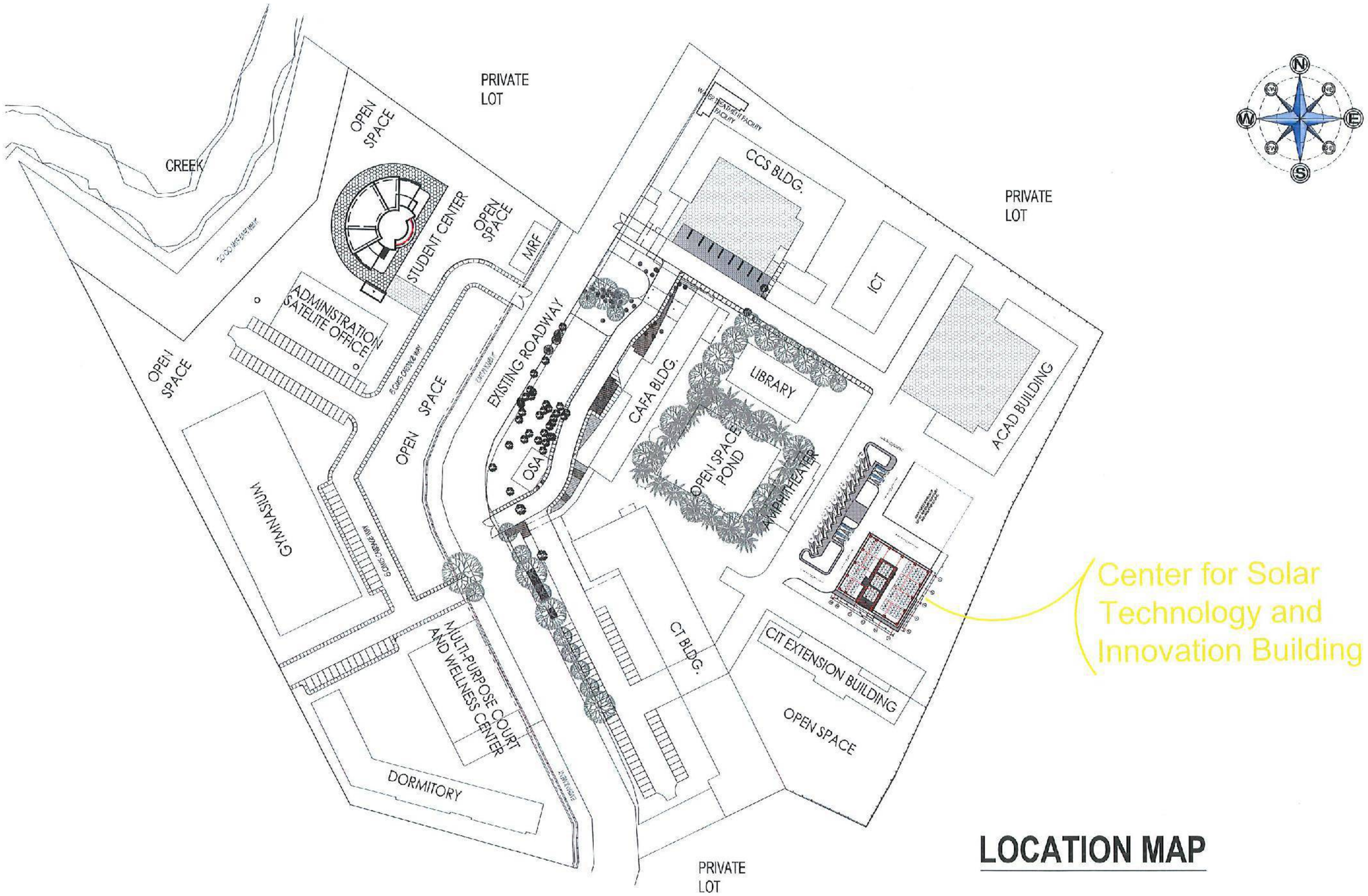


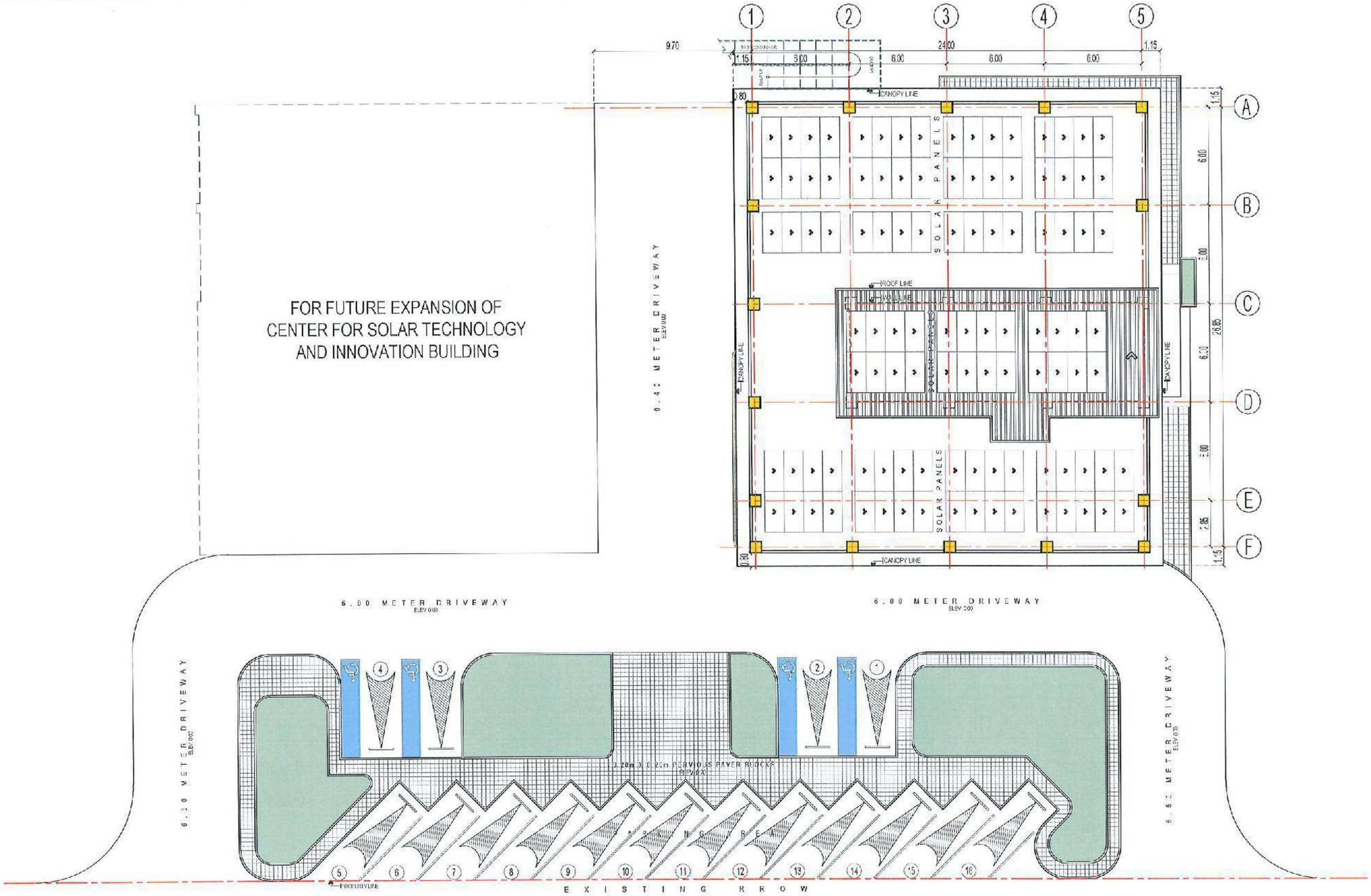
P E R S P E C T I V E

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2025	SHEET NO. A-01 PAGE NO: 01/100



LOCATION MAP

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MANACLAY DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-02 PAGE NO: 02/100



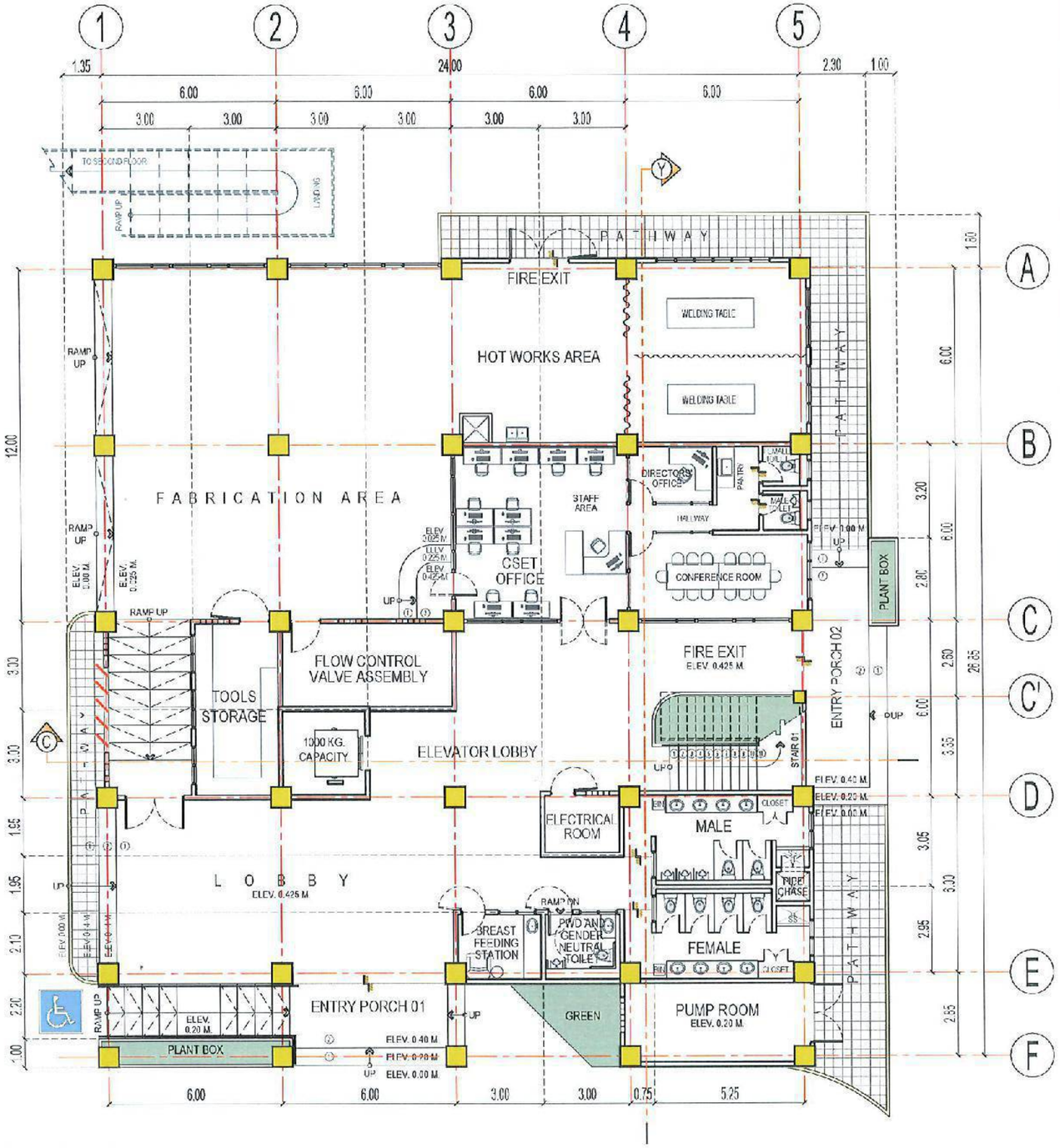
SITE DEVELOPMENT PLAN

SCALE 1:175 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-03 PAGE NO: 03/100



FOR FUTURE EXPANSION OF
CENTER FOR SOLAR TECHNOLOGY
AND INNOVATION BUILDING

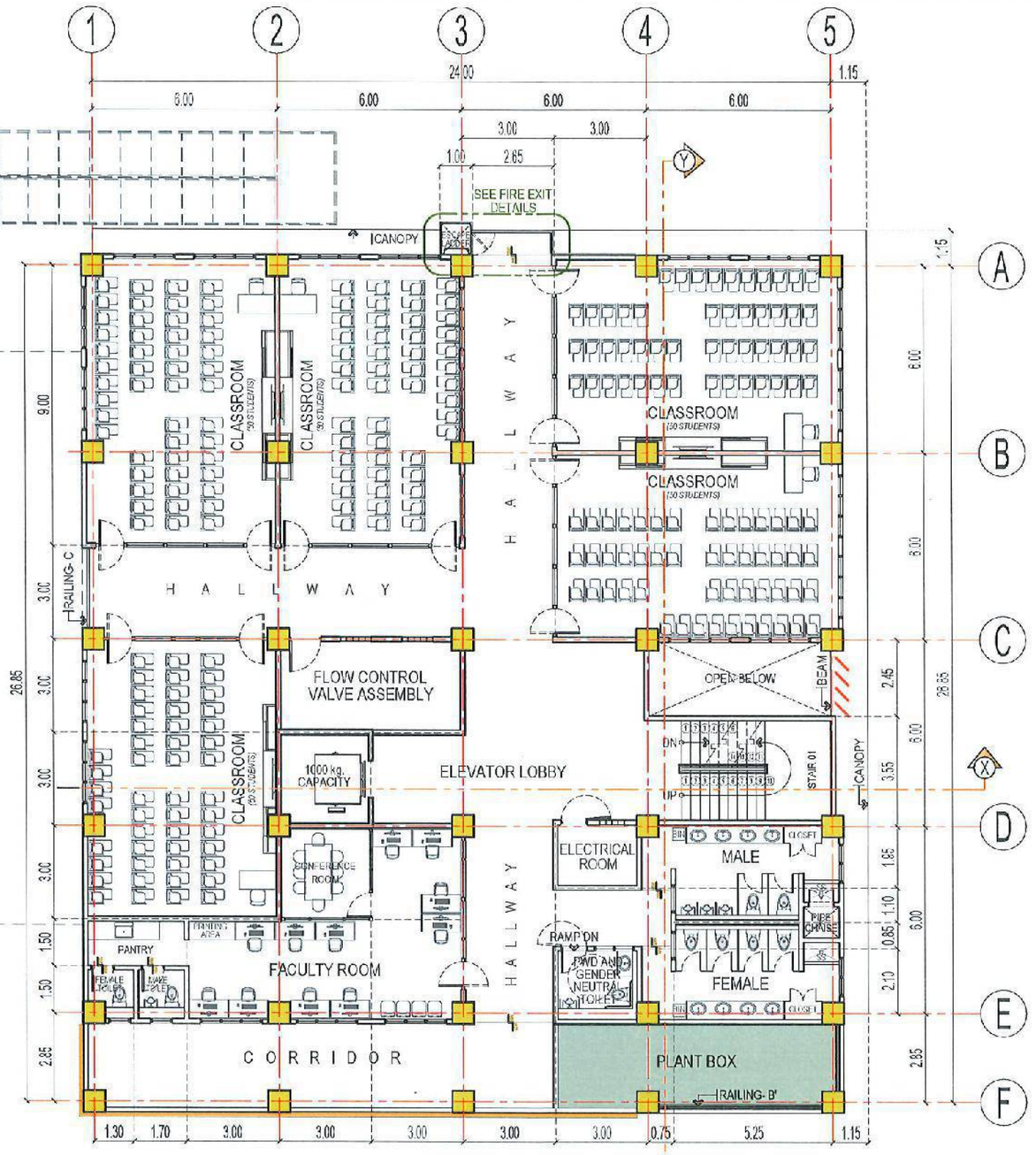


GROUND FLOOR PLAN

SCALE 1:175 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, OFDM-FCU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, CETM-PDH	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-04 PAGE NO: 04/100

FOR FUTURE EXPANSION OF
CENTER FOR SOLAR TECHNOLOGY
AND INNOVATION BUILDING





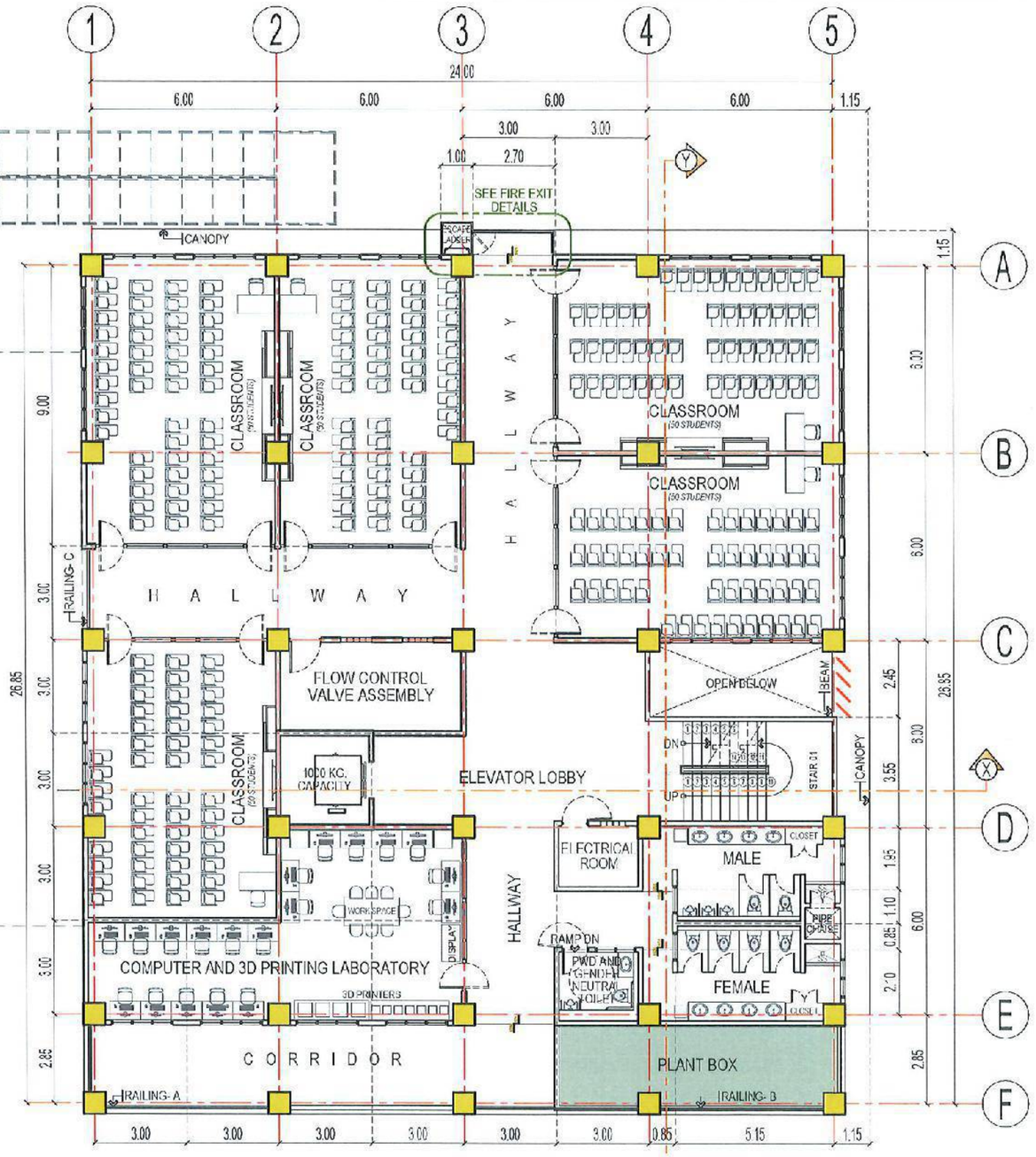
SECOND FLOOR PLAN

SCALE 1:175 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. DAMACLAY DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARILON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-05 PAGE NO: 05/100

FOR FUTURE EXPANSION OF
CENTER FOR SOLAR TECHNOLOGY
AND INNOVATION BUILDING





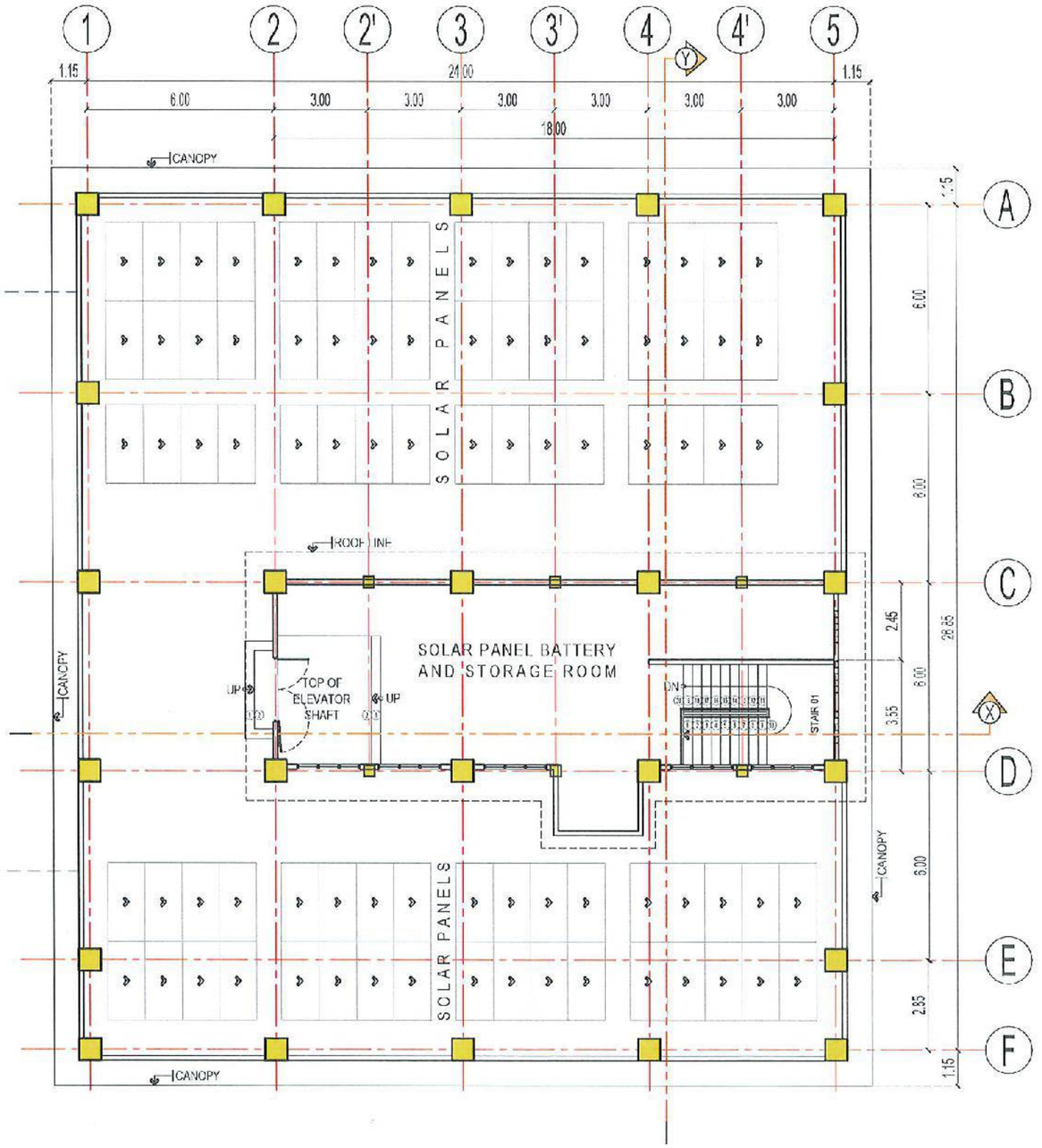
THIRD FLOOR PLAN

SCALE 1:175 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-06 PAGE NO: 06/100



FOR FUTURE EXPANSION OF
CENTER FOR SOLAR TECHNOLOGY
AND INNOVATION BUILDING



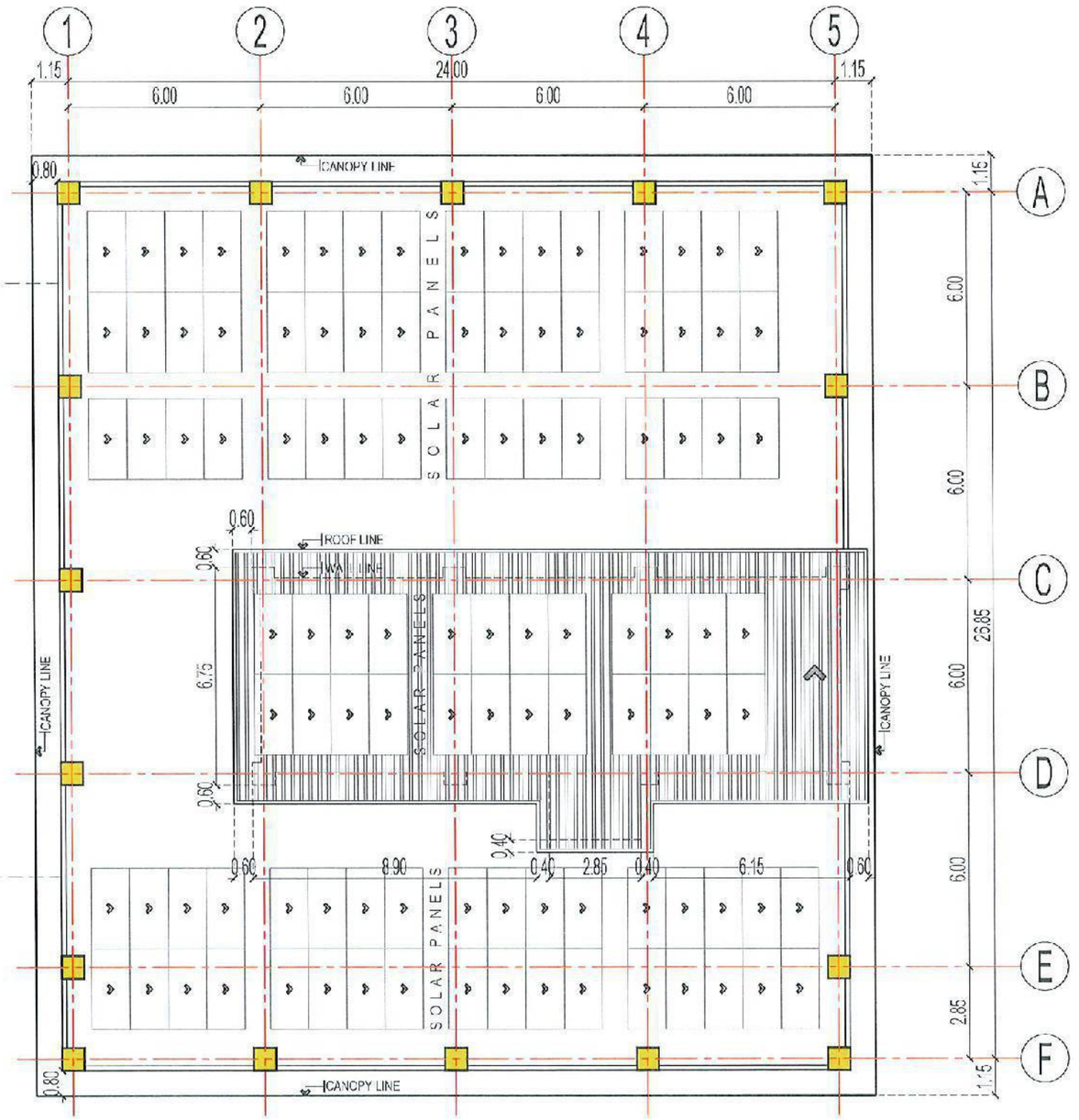
ROOF DECK PLAN

SCALE 1:175 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-07 PAGE NO: 07/100



FOR FUTURE EXPANSION OF
CENTER FOR SOLAR TECHNOLOGY
AND INNOVATION BUILDING



ROOF PLAN

SCALE 1:175 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, DPDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-08 PAGE NO: 08/100

ROUGH CEMENT FINISH WITH 10mm GROOVE

SMOOTH CEMENT WALL FINISH

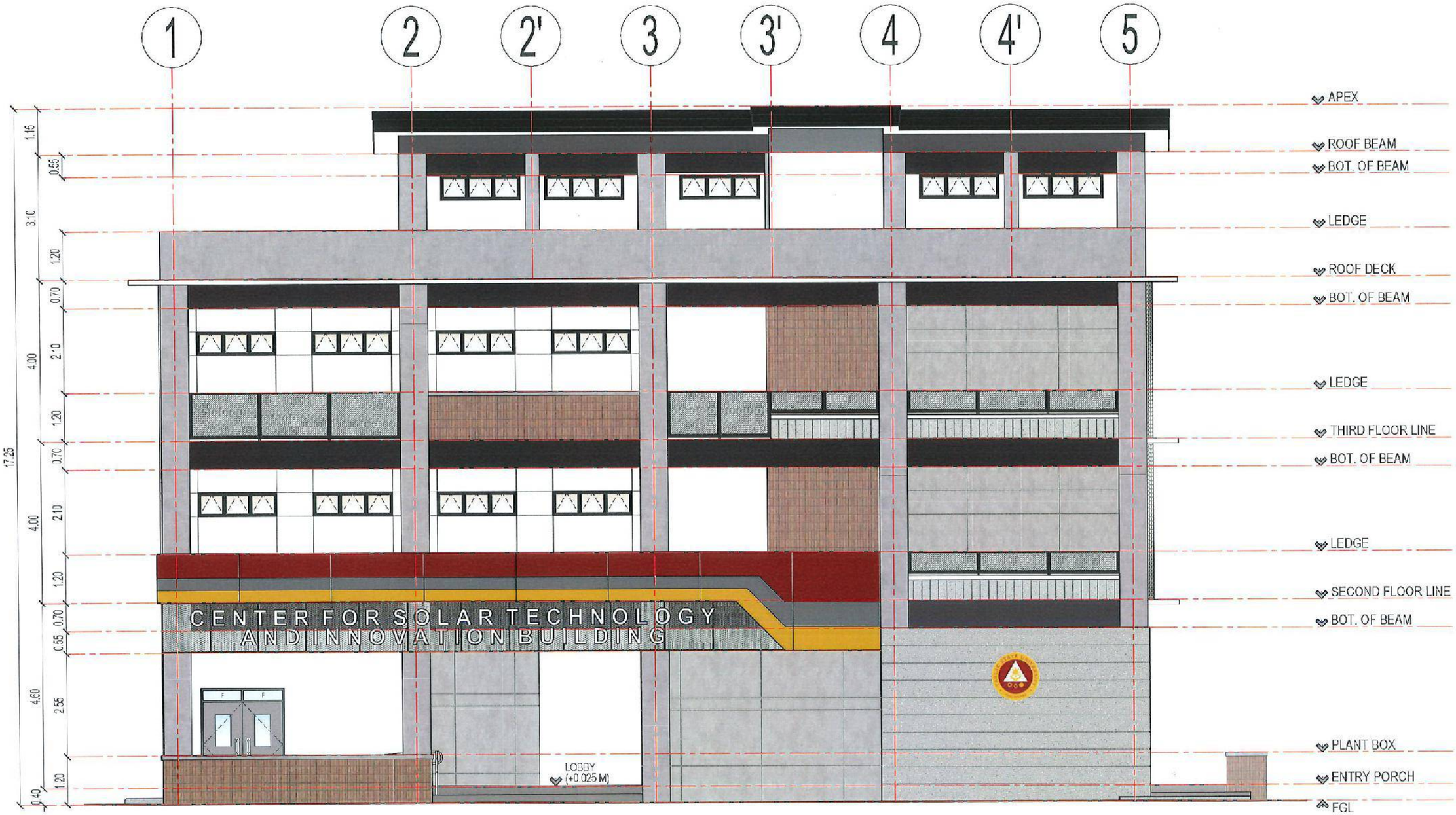
STUCCO PAINT FINISH WITH 10mm GROOVE

4" x 8" x 2" thk. TERRA COTTA BRICKS (SOLDIER PATTERN)

0.60X0.60M NON-SKID FLOOR TILES

2mm THK. 5mmØ GALVANIZE PERFORATED METAL ROUND HOLE SLOTTED SHEET

GAUGE #14- GALVANIZED CRIMPED WEAVE WIRE MESH WITH 10mm DIAMOND OPENING



FRONT ELEVATION

SCALE 1:100 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	AR. JHON CARLO V. MAMACLAY DRAFTSMAN, OFDM-PDU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. LEO D. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT	AS SHOWN	A-09
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 09/100

ROUGH CEMENT FINISH WITH 10mm GROOVE

SMOOTH CEMENT WALL FINISH

4" x 8" x 2" thk. TERRA COTTA BRICKS (SOLDIER PATTERN)

0.60X0.60M NON-SKID FLOOR TILES

2mm THK. 5mmØ GALVANIZE PERFORATED METAL ROUND HOLE SLOTTED SHEET

GAUGE #14- GALVANIZED CRIMPED WEAVE WIRE MESH WITH 10mm DIAMOND OPENING



REAR ELEVATION

SCALE 1:100 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: AR. JHON CARLO V. MARIACLAY, DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, OSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-10
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 10/100

ROUGH CEMENT FINISH WITH 10mm GROOVE

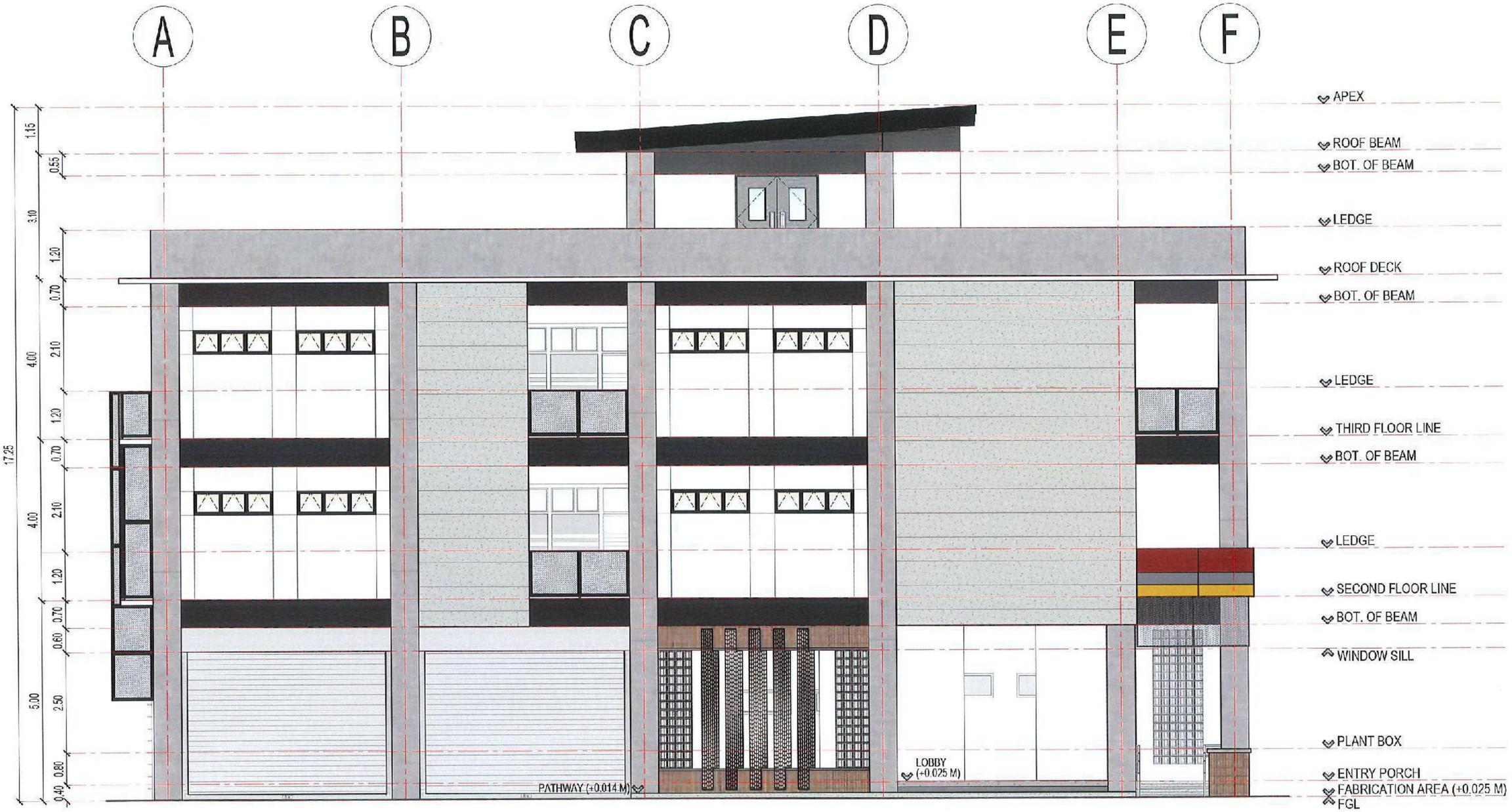
SMOOTH CEMENT WALL FINISH

4" x 8" x 2" thk. TERRA COTTA BRICKS (SOLDIER PATTERN)

0.60X0.60M NON-SKID FLOOR TILES

2mm THK. 5mmØ GALVANIZE PERFORATED METAL ROUND HOLE SLOTTED SHEET

GAUGE #14- GALVANIZED CRIMPED WEAVE WIRE MESH WITH 10mm DIAMOND OPENING



LEFT-SIDE ELEVATION

SCALE 1:100 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	AR. JHON CARLO V. MAMACLAY DRAFTSMAN, OFDM-PDU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. LEO P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT	AS SHOWN	A-11
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 11/100

ROUGH CEMENT FINISH WITH 10mm GROOVE

SMOOTH CEMENT WALL FINISH

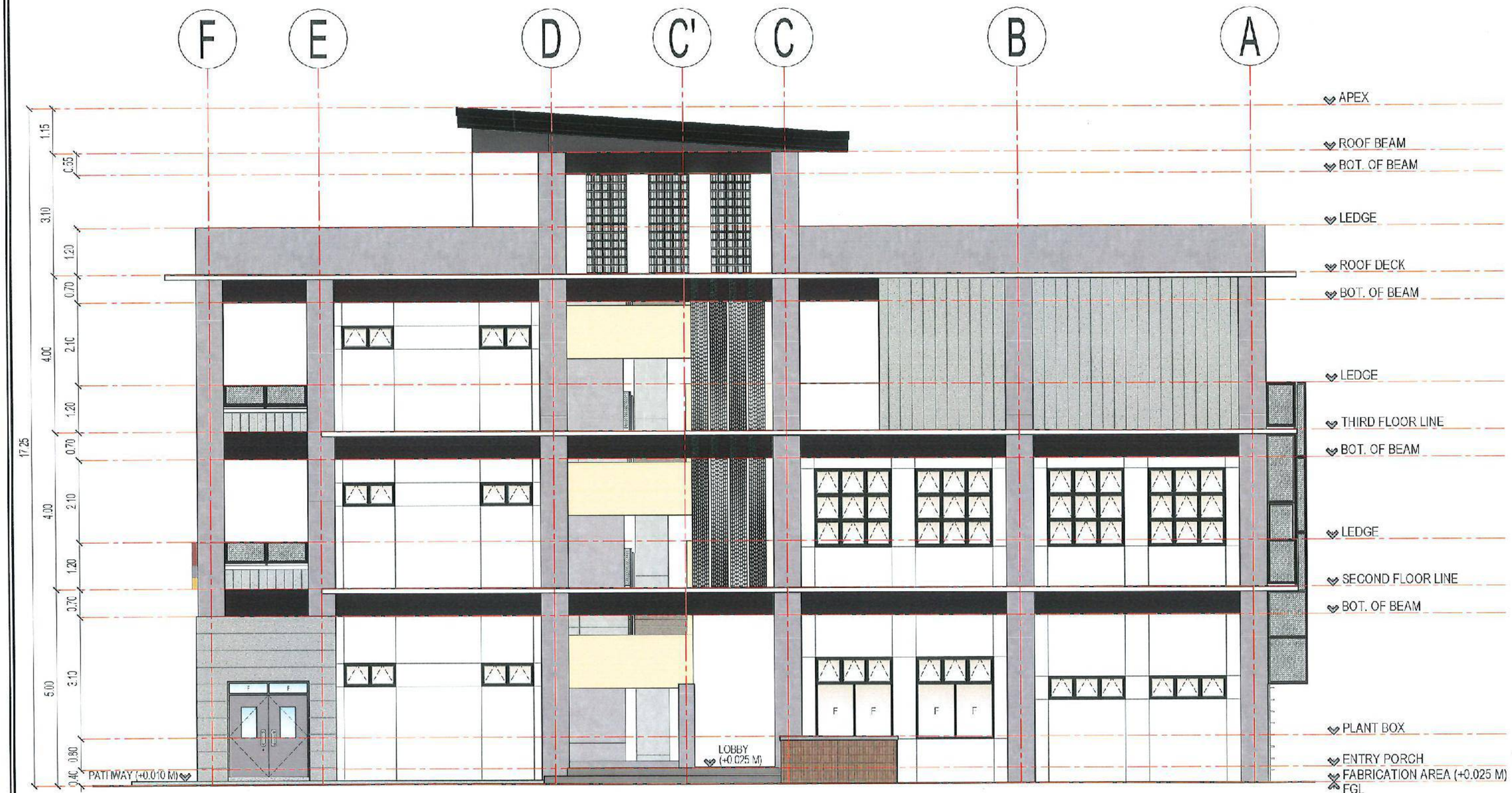
4" x 8" x 2" thk. TERRA COTTA BRICKS (SOLDIER PATTERN)

NO. 12 SIEVE PEBBLE WASHOUT

0.60X0.60M NON-SKID FLOOR TILES

2mm THK. 5mmØ GALVANIZE PERFORATED METAL ROUND HOLE SLOTTED SHEET

GAUGE #14 GALVANIZED CRIMPED WEAVE WIRE MESH WITH 10mm DIAMOND OPENING



RIGHT-SIDE ELEVATION

SCALE 1:100 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: AR. JHON CARLO V. MAMACLAY, DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. DIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON N. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-12
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO. 12/100

ROUGH CEMENT FINISH WITH 10mm GROOVE

SMOOTH CEMENT WALL FINISH

NO. 12 SIEVE PEBBLE WASHOUT

¾" MDF BOARD CABINET

18mm THK. GALAXY BLACK GOLD CHIP SOLID GRANITE

0.30m X 0.60m GLAZED WALL TILES

2mm THK. 5mmØ GALVANIZE PERFORATED METAL ROUND HOLE SLOTTED SHEET

GAUGE #14- GALVANIZED CRIMPED WEAVE WIRE MESH WITH 10mm DIAMOND OPENING

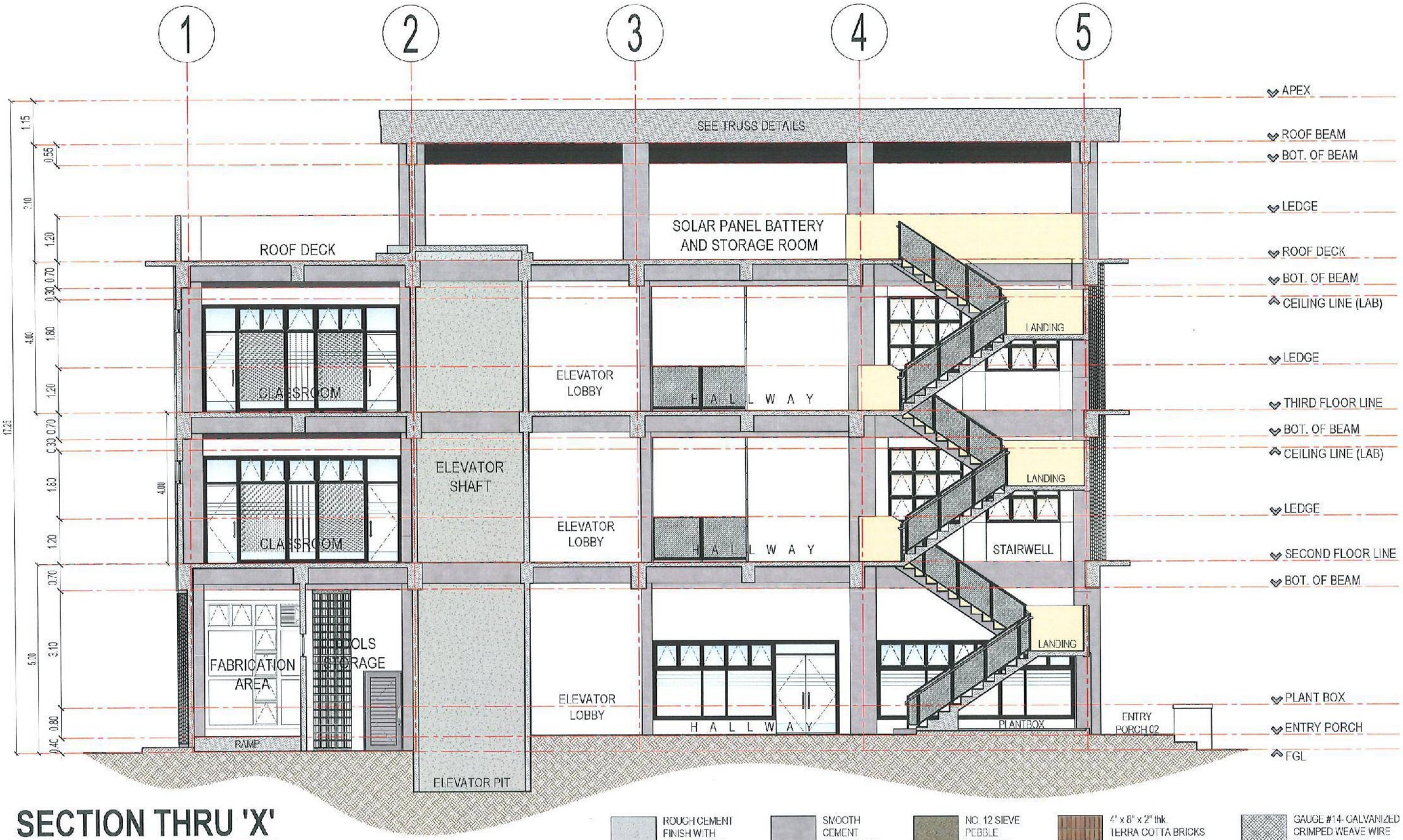


SECTION THRU 'Y'

SCALE 1:100 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: AR. JHON CARLO V. MAMACLAY, DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, OSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO.: A-13
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO.: 13/100



SECTION THRU 'X'

SCALE 1:100 M

ROUGH CEMENT FINISH WITH 10mm GROOVE

SMOOTH CEMENT WALL FINISH

NO. 12 SIEVE PEBBLE WASHOUT

4" x 8" x 2" thk. TERRA COTTA BRICKS (SOLDIER PATTERN)

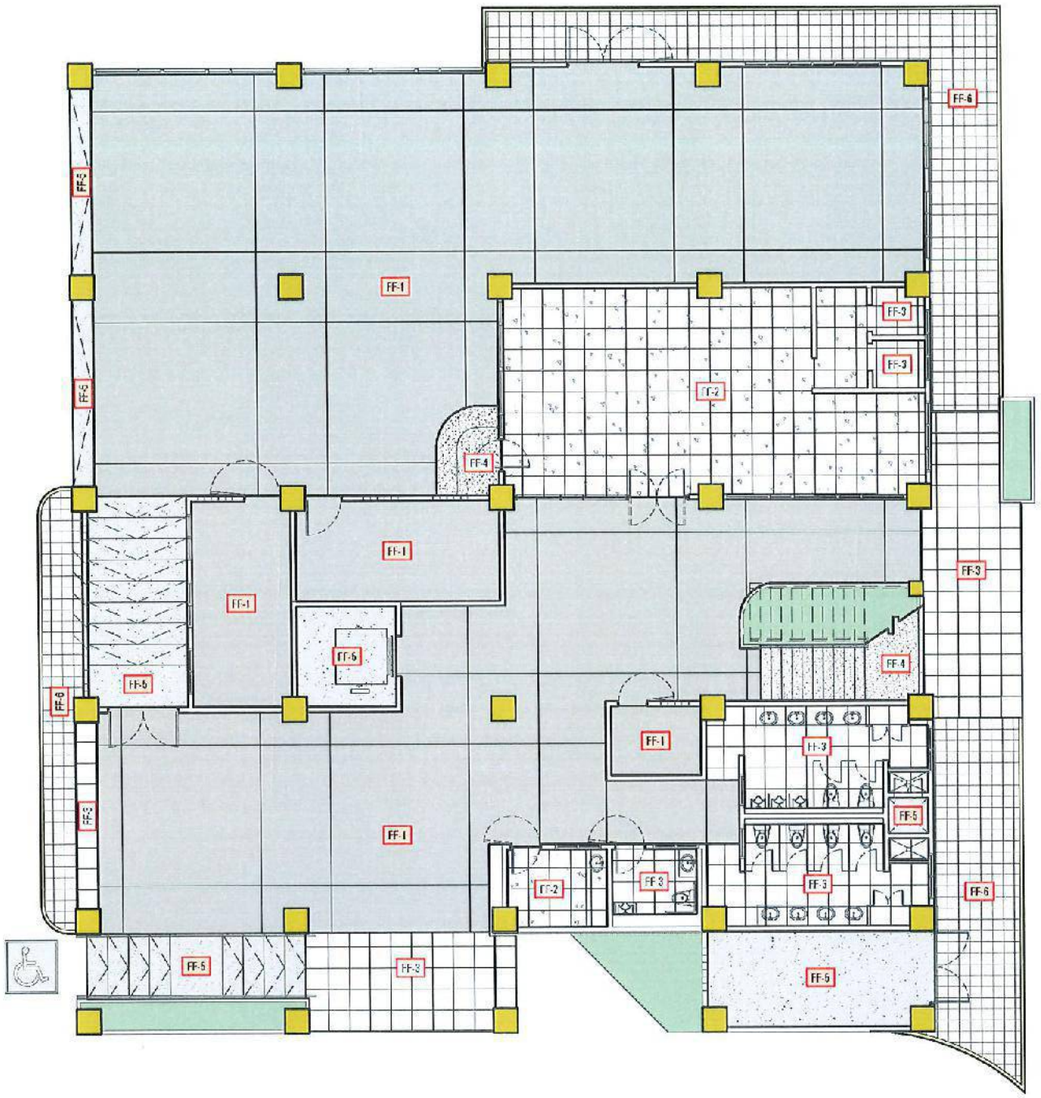
GAUGE #14- GALVANIZED CRIMPED WEAVE WIRE MESH WITH 10mm DIAMOND OPENING

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: AR. JHON CARLO V. MARACLAY, DPDM-ISMMM, DPDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-14
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 14/100

FF-1	SMOOTH CEMENT FINISH WITH CONTROL JOINT
FF-2	0.60m X 0.60m TERRAZZO CERAMIC FLOOR TILES
FF-3	0.60m X 0.60m NON SKID PORCELAIN FLOOR TILES
FF-4	NO. 12 SIEVE PEBBLE WASHOUT
FF-5	CONCRETE FINE BROOM FINISH
FF-6	0.20m X 0.20m PERVIOUS PAVERS

NOTE:
1. FINISHES LABELED WITH ▭ ARE FOR REFERENCE ONLY AND ARE NOT INCLUDED IN THE SCOPE OF THE CONSTRUCTION.



GROUND FLOOR - FLOOR FINISH SCHEDULE

SCALE 1:175 M

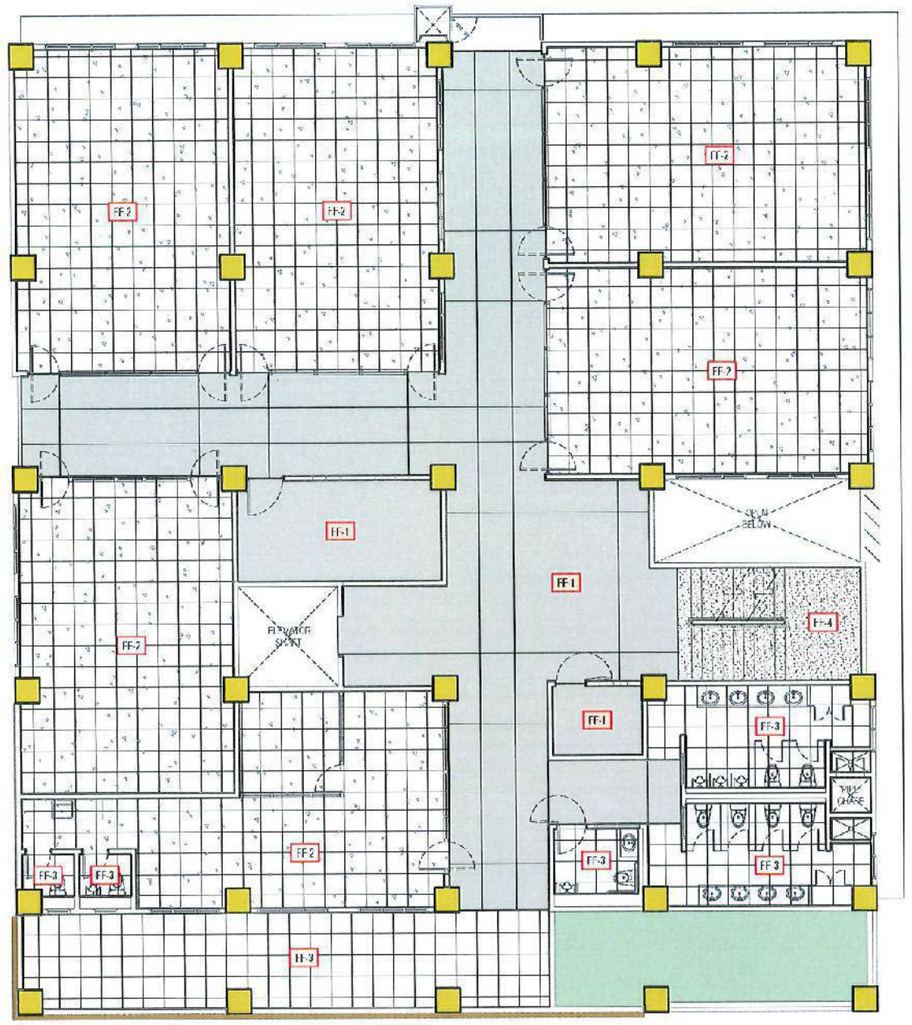
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2360

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: AR. JHON CARLO V. MAMACLAY, DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, GSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-15
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 15/100

FF-1	SMOOTH CEMENT FINISH WITH CONTROL JOINT
FF-2	0.60m X 0.60m TERRAZZO CERAMIC FLOOR TILES
FF-3	0.60m X 0.60m NON SKID PORCELAIN FLOOR TILES
FF-4	NO. 12 SIEVE PEBBLE WASHOUT

NOTE:

1. FINISHES LABELLED WITH ▭ ARE FOR REFERENCE ONLY AND ARE NOT INCLUDED IN THE SCOPE OF CONSTRUCTION.



SECOND FLOOR - FLOOR FINISH SCHEDULE

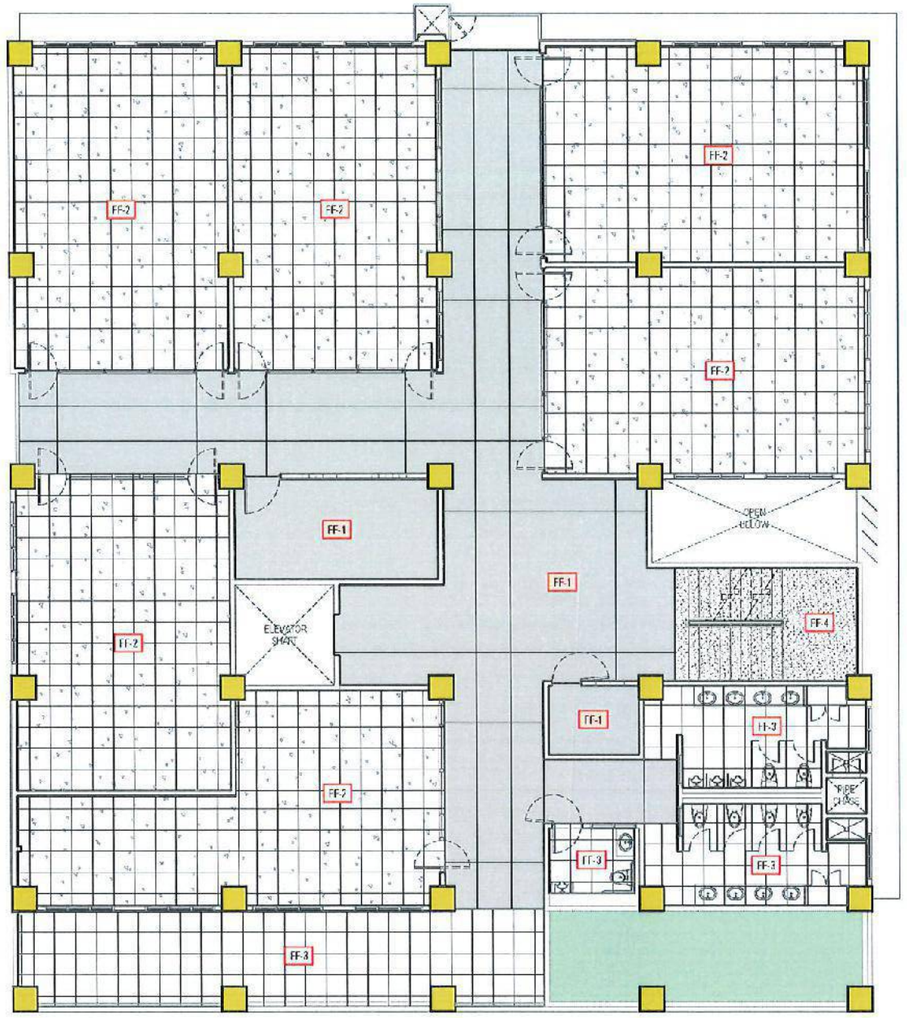
SCALE 1:175 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, CFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, CFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, CFDM	REQUESTING OFFICE: DR. LEO B. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. CAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO.: A-16 PAGE NO: 16/100

FF-1	SMOOTH CEMENT FINISH WITH CONTROL JOINT
FF-2	0.60m X 0.60m TERRAZZO CERAMIC FLOOR TILES
FF-3	0.60m X 0.60m NON-SKID PORCELAIN FLOOR TILES
FF-4	NO. 12 SIEVE PEBBLE WASHOUT

NOTE:

1. FINISHES LABELED WITH ▭ ARE FOR REFERENCE ONLY AND ARE NOT INCLUDED IN THE SCOPE OF CONSTRUCTION.



THIRD FLOOR - FLOOR FINISH SCHEDULE

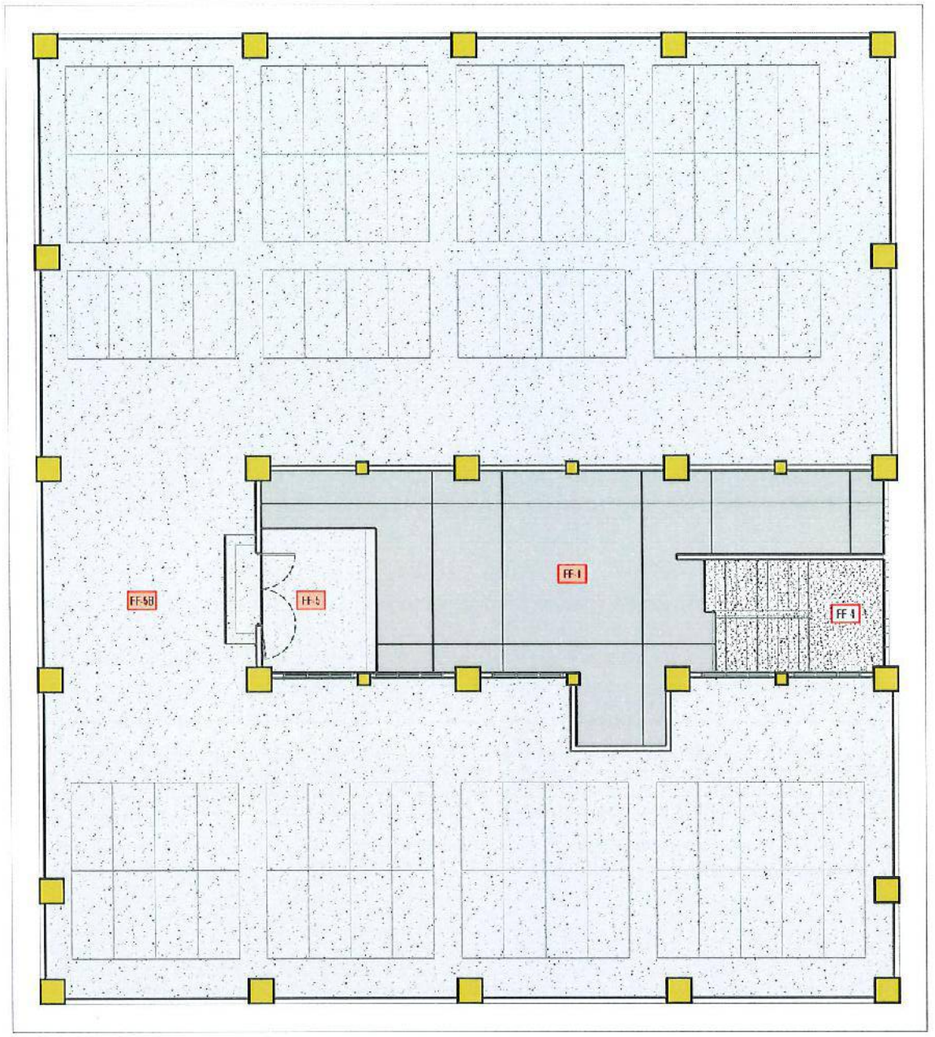
SCALE 1:175 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, OSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-17 PAGE NO: 17/100

FF-1	POLISHED CONCRETE FINISH WITH CONTROL JOINT
FF-4	NO. 12 SIEVE PEBBLE WASHCUT
FF-5	CONCRETE FINE BROOM FINISH
FF-5B	POLYURETHANE UV RESISTANT COATING WITH CEMENTITIOUS WATERPROOFING

NOTE:

1. FINISHES LABELED WITH ▭ ARE FOR REFERENCE ONLY AND ARE NOT INCLUDED IN THE SCOPE OF CONSTRUCTION.



ROOF DECK - FLOOR FINISH SCHEDULE

SCALE 1:175 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, CFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, CFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, CFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. SAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER MAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-18 PAGE NO. 18/100

WF-1 SMOOTH PAINT FINISH

WF-2 SMOOTH PAINT FINISH WITH 10mm GROOVE

WF-3 ROUGH CEMENT FINISH WITH 10mm GROOVE

WF-4 SMOOTH CEMENT WALL FINISH

WF-5 4" x 8" x 2" thk. TERRA COTTA BRICKS (SOLDIER PATTERN)

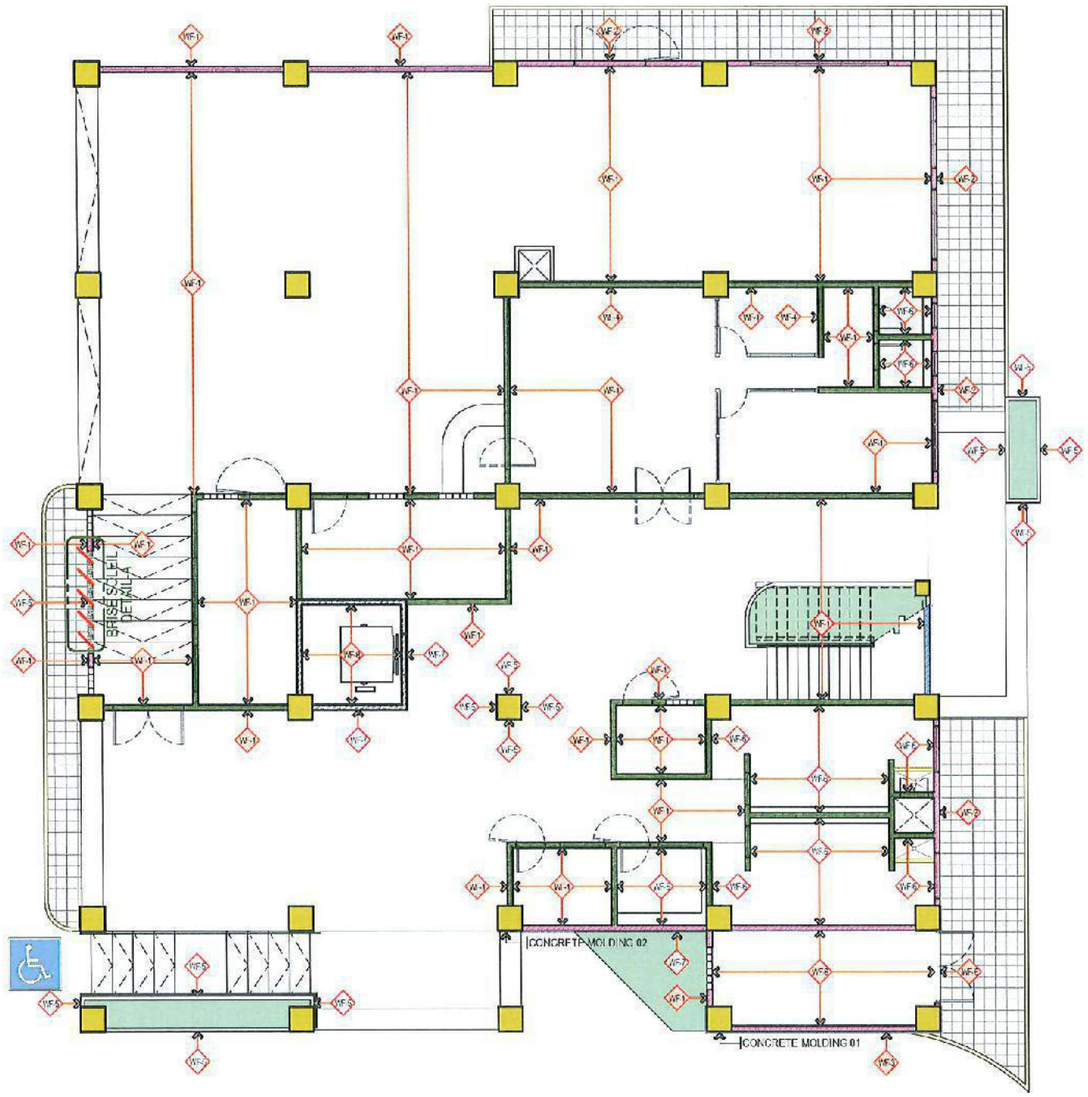
WF-6 0.30 x 0.60 GLAZED WALL TILES

WF-7 STUCCO PAINT FINISH (WITH 10mm GROOVE)

WF-8 ROUGH CEMENT FINISH

NOTE:

1. ALL EXPOSED PERIMETER BEAMS SHALL BE SMOOTH PAINTED WITH APPROVED SHADE OF BLACK; THE REST OF EXPOSED BEAMS SHALL BE SMOOTH CEMENT FINISH.
2. ALL SIDES OF COLUMNS SHALL BE SMOOTH CEMENT FINISH.
3. FINISHES LABELED WITH ◇ ARE FOR REFERENCE ONLY AND ARE NOT INCLUDED IN THE SCOPE OF CONSTRUCTION.



GROUND FLOOR - WALL FINISH SCHEDULE

SCALE 1:175 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: AR. JITON CARLO V. MAMACLAY, DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-19
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 19/100

WF-1 SMOOTH PAINT FINISH

WF-2 SMOOTH PAINT FINISH WITH 10mm GROOVE

WF-3 ROUGH CEMENT FINISH WITH 10mm GROOVE

WF-4 SMOOTH CEMENT WALL FINISH

WF-5 4" x 8" x 2" thk. TERRA COTTA BRICKS (SOLDIER PATTERN)

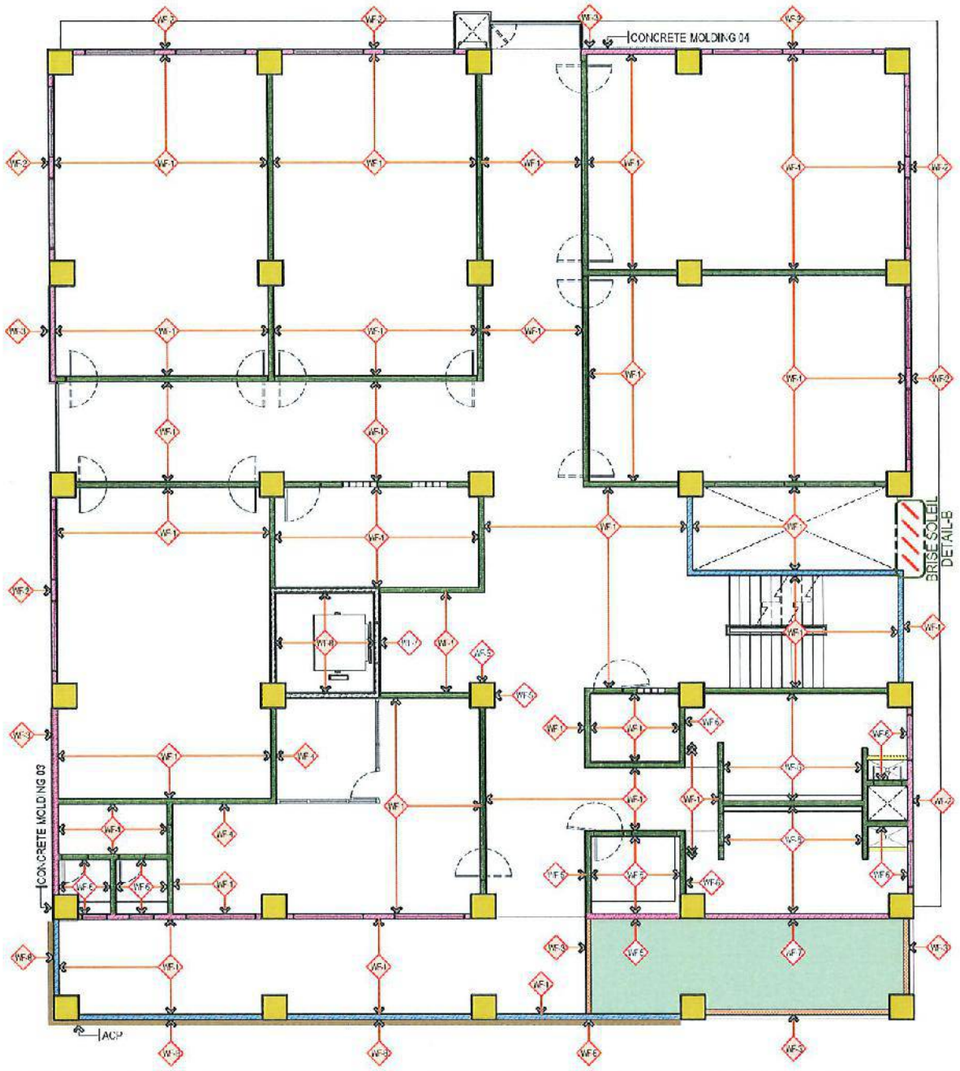
WF-6 0.30 x 0.60 GLAZED WALL TILES

WF-7 STUCCO PAINT FINISH (WITH 10mm GROOVE)

WF-8 ROUGH CEMENT FINISH

NOTE:

1. ALL EXPOSED PERIMETER BEAMS SHALL BE SMOOTH PAINTED WITH APPROVED SHADE OF BLACK. THE REST OF EXPOSED BEAMS SHALL BE SMOOTH CEMENT FINISH.
2. ALL SIDES OF COLUMNS SHALL BE SMOOTH CEMENT FINISH.
3. FINISHES LABELED WITH ◇ ARE FOR REFERENCE ONLY AND ARE NOT INCLUDED IN THE SCOPE OF CONSTRUCTION.



SECOND FLOOR - WALL FINISH SCHEDULE

SCALE 1:175 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Katipunan City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, DFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUILE DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-20 PAGE NO: 20/100

WF-1 SMOOTH PAINT FINISH

WF-2 SMOOTH PAINT FINISH
WITH 10mm GROOVE

WF-3 ROUGH CEMENT FINISH
WITH 10mm GROOVE

WF-4 SMOOTH CEMENT WALL FINISH

WF-5 4" x 8" x 2" thk. TERRA COTTA BRICKS
(SOLDIER PATTERN)

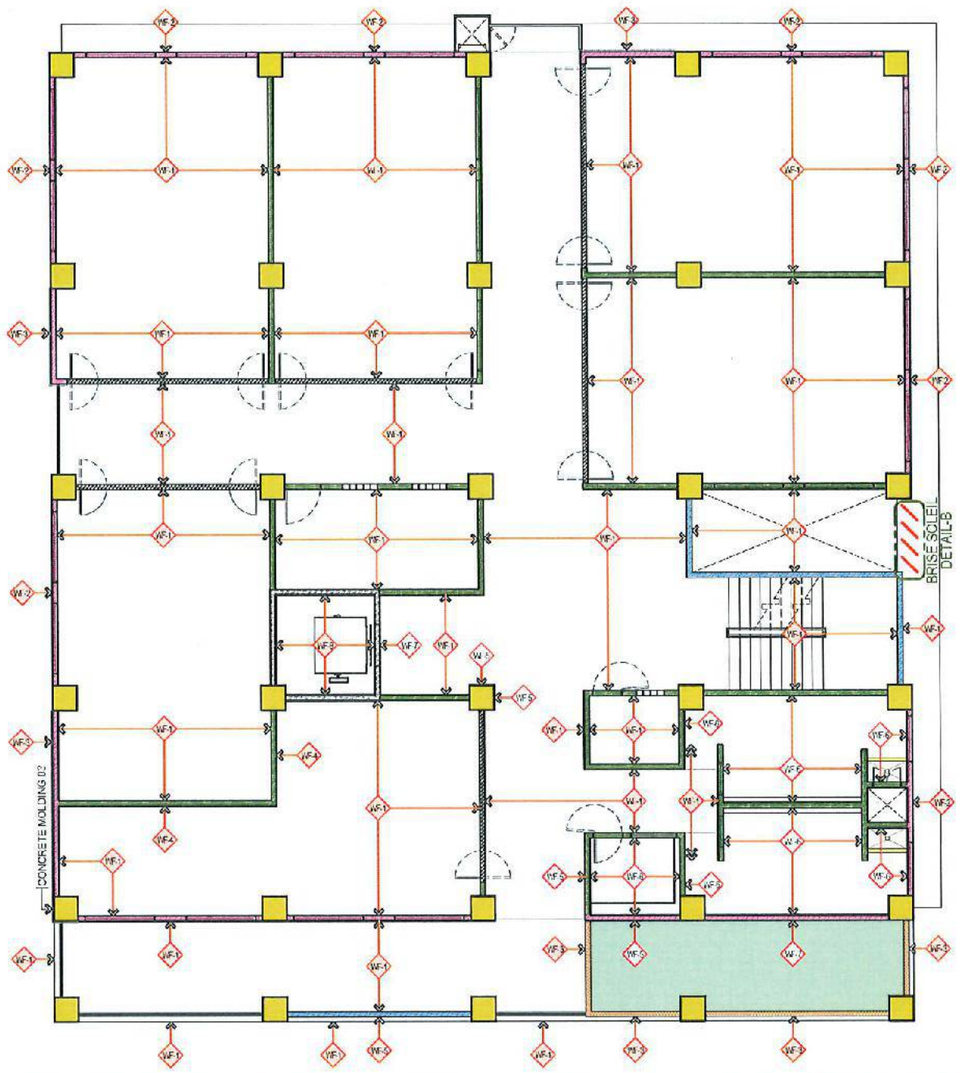
WF-6 0.30 x 0.60 GLAZED WALL TILES

WF-7 STUCCO PAINT FINISH
(WITH 10mm GROOVE)

WF-8 ROUGH CEMENT FINISH

NOTE:

1. ALL EXPOSED PERIMETER BEAMS SHALL BE SMOOTH PAINTED WITH APPROVED SHADE OF BLACK;
   THE REST OF EXPOSED BEAMS SHALL BE SMOOTH CEMENT FINISH.
2. ALL SIDES OF COLUMNS SHALL BE SMOOTH CEMENT FINISH.
3. FINISHES LABELED WITH ◇ ARE FOR REFERENCE ONLY AND ARE NOT INCLUDED IN THE SCOPE OF CONSTRUCTION.



THIRD FLOOR - WALL FINISH SCHEDULE

SCALE 1:175 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-21 PAGE NO: 21/100

WF-1 SMOOTH PAINT FINISH

WF-2 SMOOTH PAINT FINISH
WITH 10mm GROOVE

WF-3 ROUGH CEMENT FINISH
WITH 10mm GROOVE

WF-4 SMOOTH CEMENT WALL FINISH

WF-5 4" x 8" x 2" thk. TERRA COTTA BRICKS
(SOLDIER PATTERN)

WF-6 0.30 x 0.60 GLAZED WALL TILES

WF-7 STUCCO PAINT FINISH
(WITH 10mm GROOVE)

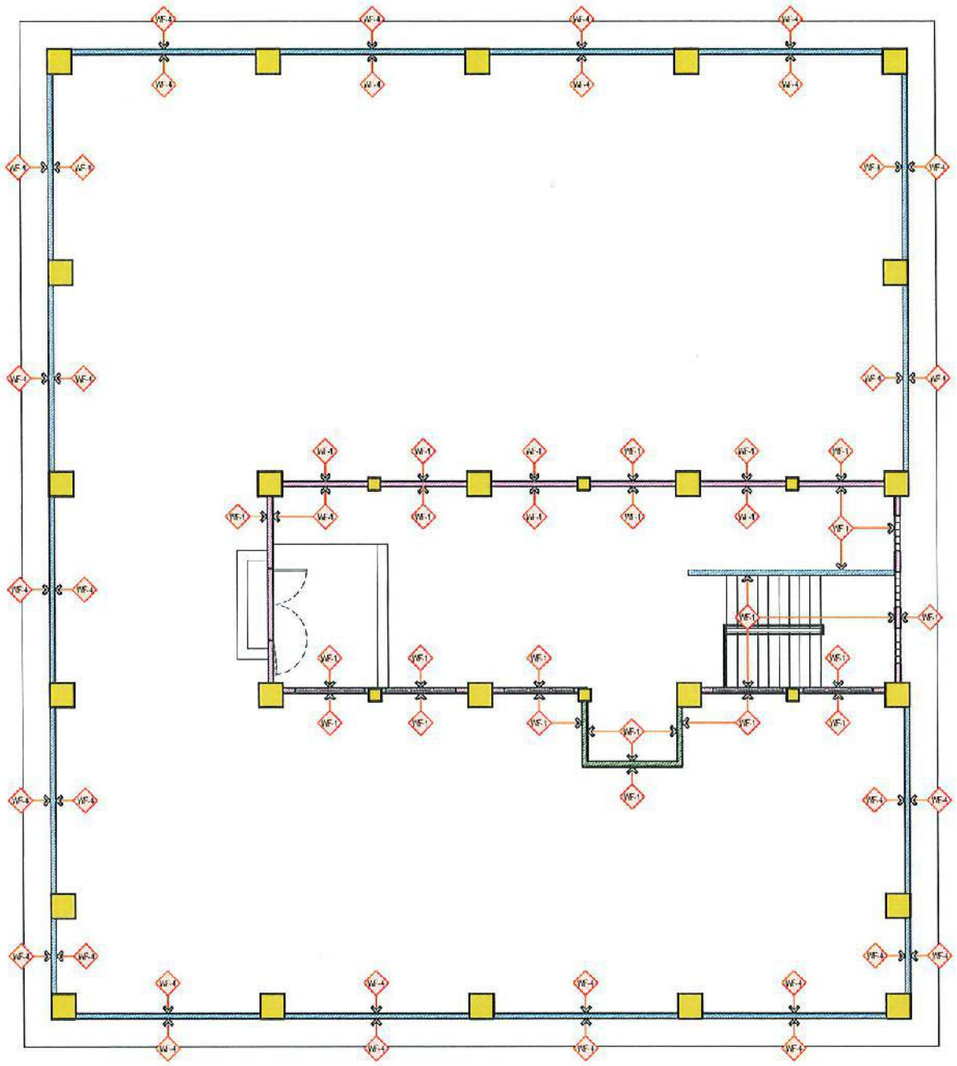
WF-8 ROUGH CEMENT FINISH

NOTE:

1. ALL EXPOSED PERIMETER BEAMS SHALL BE SMOOTH PAINTED WITH APPROVED SHADE OF BLACK;
THE REST OF EXPOSED BEAMS SHALL BE SMOOTH CEMENT FINISH.

2. ALL SIDES OF COLUMNS SHALL BE SMOOTH CEMENT FINISH.

3. FINISHES LABELED WITH ◇ ARE FOR REFERENCE ONLY AND ARE NOT INCLUDED IN THE SCOPE OF CONSTRUCTION.



ROOF DECK - WALL FINISH SCHEDULE

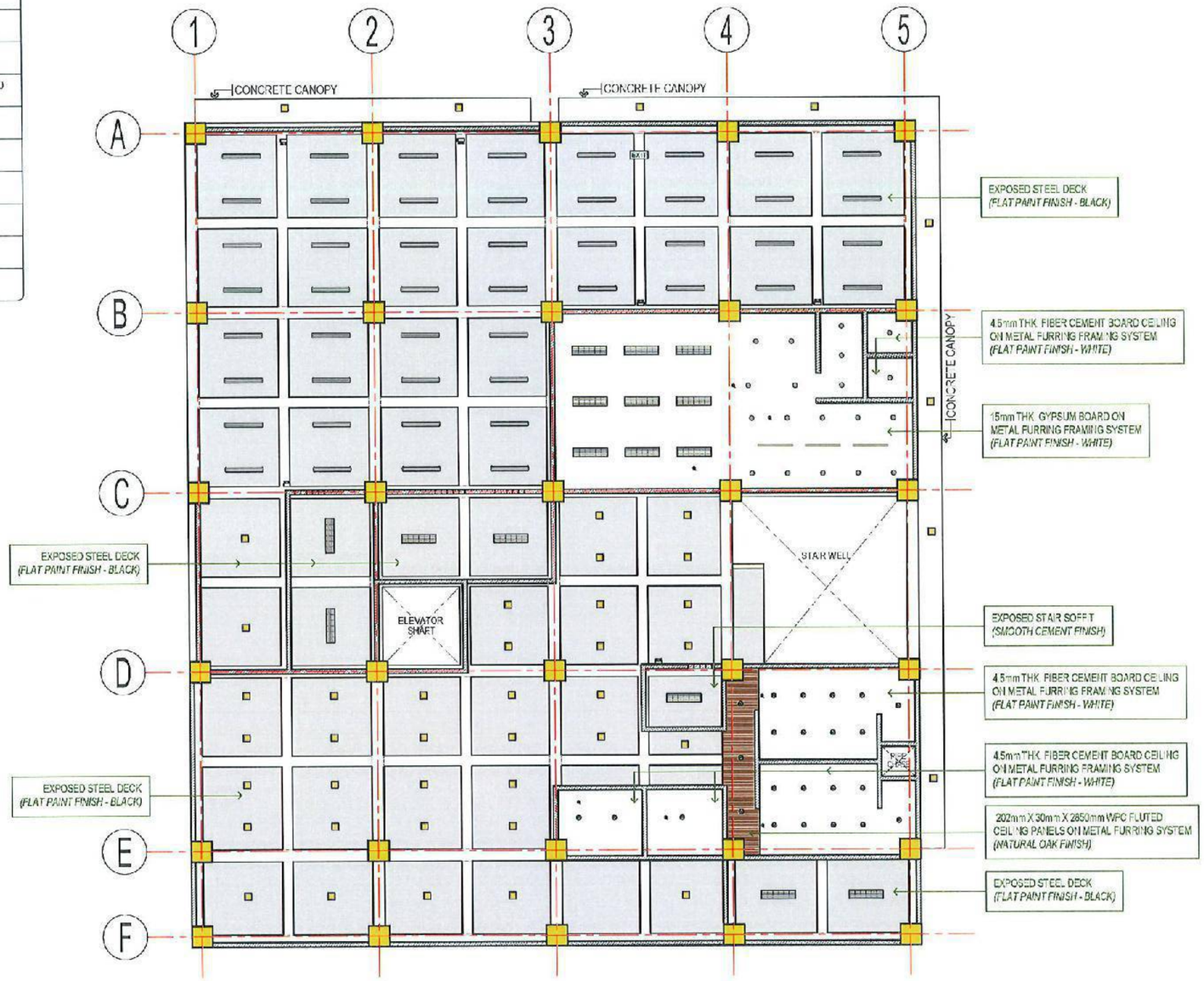
SCALE 1:175 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY, DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-22 PAGE NO: 22/100

LEGENDS	
	2-18W T8 LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	1-18W LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A SURFACE MOUNTED FROSTED DIFFUSER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A WEATHERPROOF HOUSING (DAYLIGHT)
	4" ROUND RECESSED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
	4" SQUARE SURFACE MOUNTED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
EL	CEILING MOUNTED EMERGENCY LIGHT
	WALL MOUNTED EMERGENCY LIGHT
EXIT	3W BACK TO BACK ILLUMINATED EXIT SIGN

NOTE:
EXPOSED PERIMETER BEAMS SHALL BE SMOOTH PAINTED WITH APPROVED SHADE OF BLACK, THE REST OF EXPOSED BEAMS SHALL BE SMOOTH CEMENT FINISH.



GROUND FLOOR REFLECTIVE CEILING PLAN

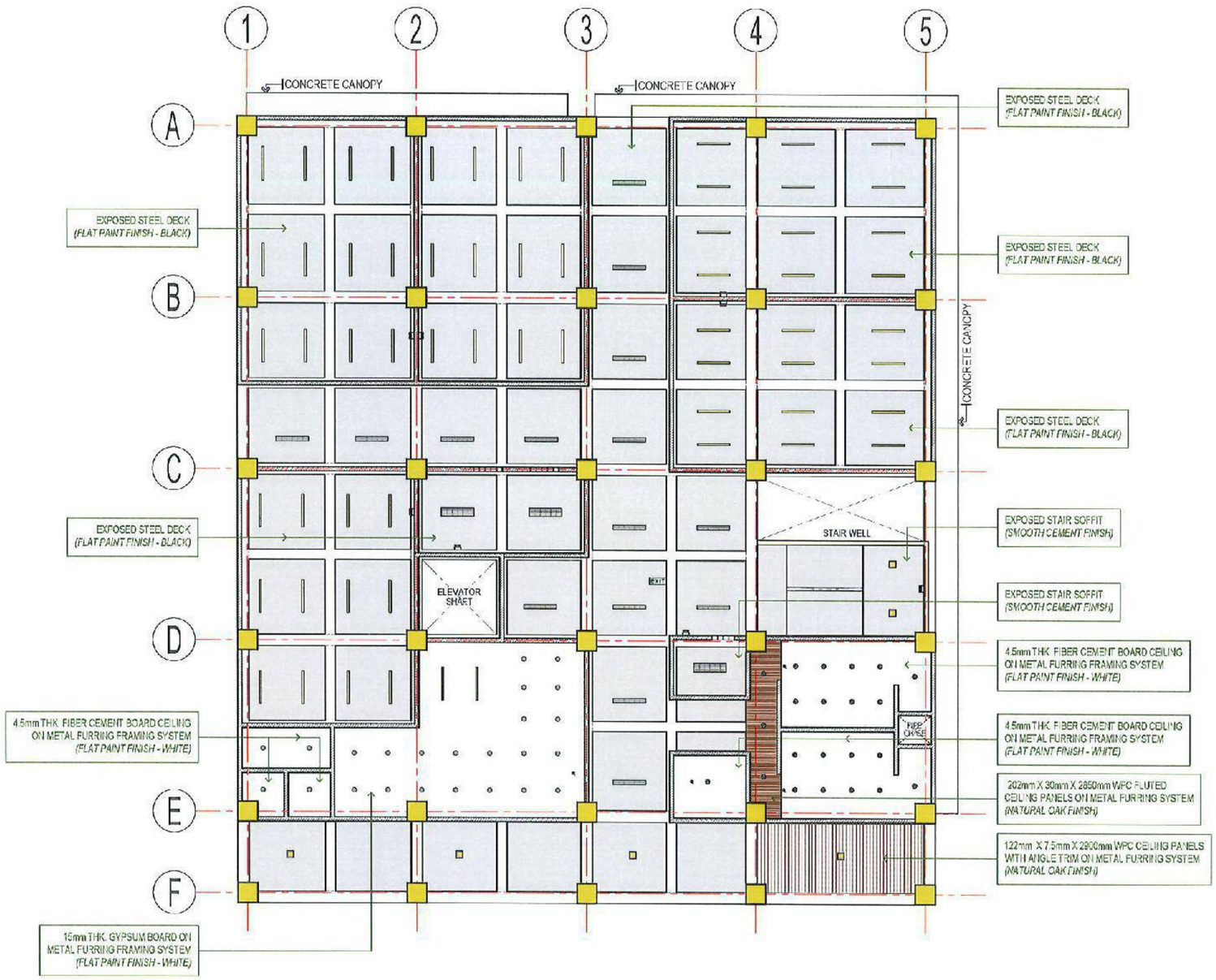
SCALE 1:175 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: AR. JHON CARLO V. MAMACLAY, CRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JOHN N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-23
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 23/100

LEGENDS	
	2-18W T8 LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	1-18W LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A SURFACE MOUNTED FROSTED DIFFUSER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A WEATHERPROOF HOUSING (DAYLIGHT)
	4" ROUND RECESSED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
	4" SQUARE SURFACE MOUNTED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
	CEILING MOUNTED EMERGENCY LIGHT
	WALL MOUNTED EMERGENCY LIGHT
EXIT	3W BACK TO BACK ILLUMINATED EXIT SIGN

NOTE:
EXPOSED PERIMETER BEAMS SHALL BE SMOOTH PAINTED WITH APPROVED SHADE OF BLACK; THE REST OF EXPOSED BEAMS SHALL BE SMOOTH CEMENT FINISH.



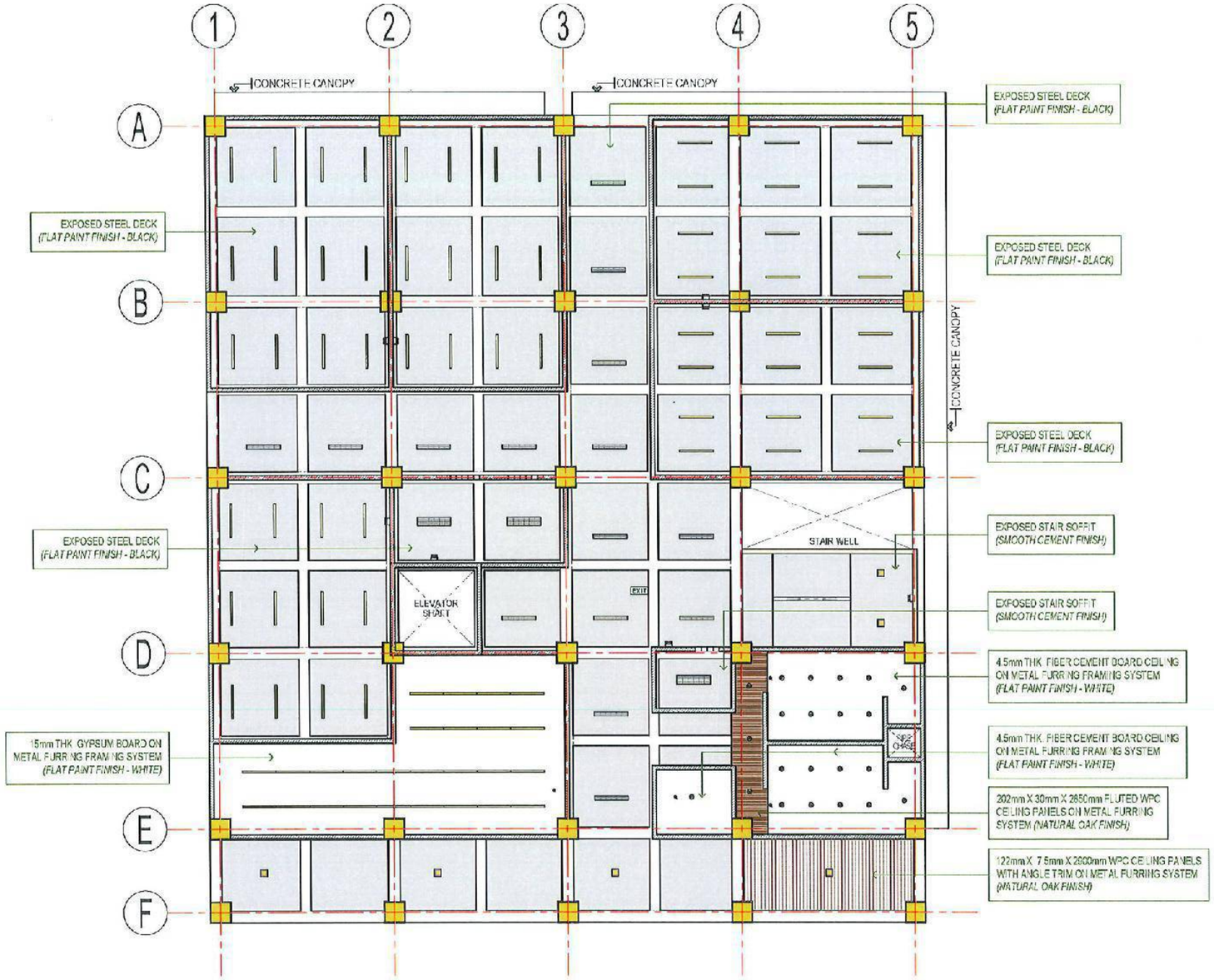
SECOND FLOOR REFLECTIVE CEILING PLAN

SCALE 1:175 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-24 PAGE NO: 24/100

LEGENDS	
	2-18W T8 LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	1-18W LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A SURFACE MOUNTED FROSTED DIFFUSER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A WEATHERPROOF HOUSING (DAYLIGHT)
	4" ROUND RECESSED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
	4" SQUARE SURFACE MOUNTED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
	CEILING MOUNTED EMERGENCY LIGHT
	WALL MOUNTED EMERGENCY LIGHT
EXIT	3W BACK TO BACK ILLUMINATED EXIT SIGN

NOTE:
EXPOSED PERIMETER BEAMS SHALL BE SMOOTH PAINTED WITH APPROVED SHADE OF BLACK. THE REST OF EXPOSED BEAMS SHALL BE SMOOTH CEMENT FINISH.



THIRD FLOOR REFLECTIVE CEILING PLAN

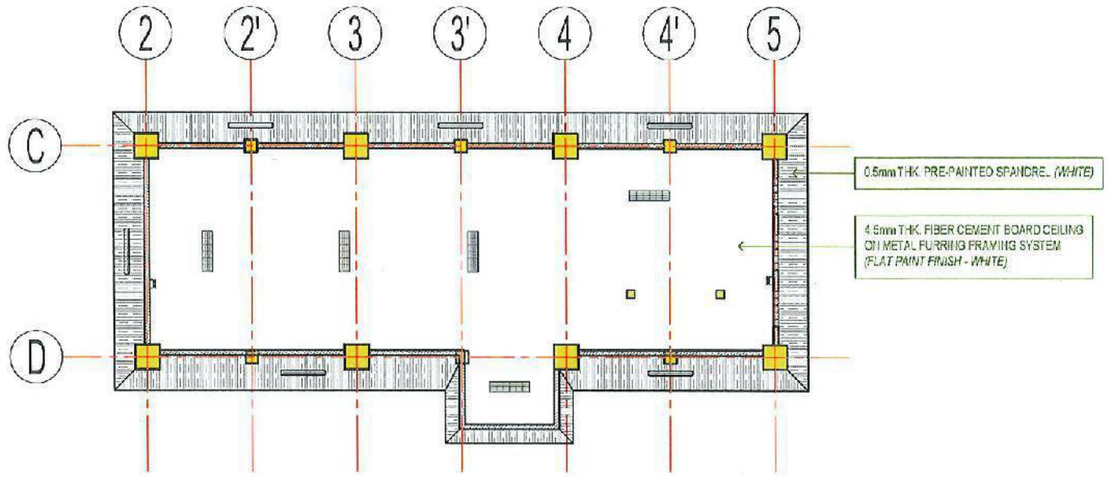
SCALE 1:175 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	AR. JHON CARLO V. MAMACLAY DRAFTSMAN, OFDM-PDU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. LEO P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT	AS SHOWN	A-25
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 25/100

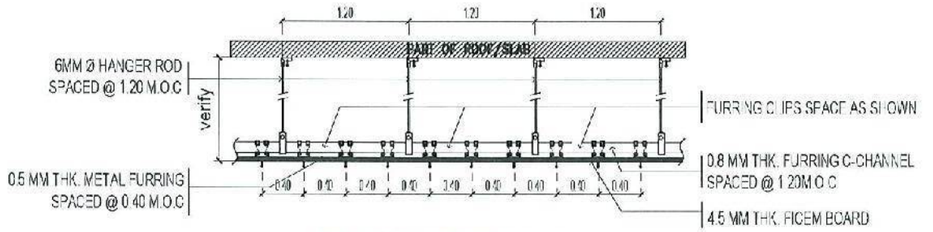
LEGENDS	
	2-18W T8 LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	1-18W LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A SURFACE MOUNTED FROSTED DIFFUSER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A WEATHERPROOF HOUSING (DAYLIGHT)
	4" ROUND RECESSED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
	4" SQUARE SURFACE MOUNTED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
	CEILING MOUNTED EMERGENCY LIGHT
	WALL MOUNTED EMERGENCY LIGHT
EXIT	3W BACK TO BACK ILLUMINATED EXIT SIGN

NOTE:
EXPOSED PERIMETER BEAMS SHALL BE SMOOTH PAINTED WITH APPROVED SHADE OF BLACK; THE REST OF EXPOSED BEAMS SHALL BE SMOOTH CEMENT FINISH.



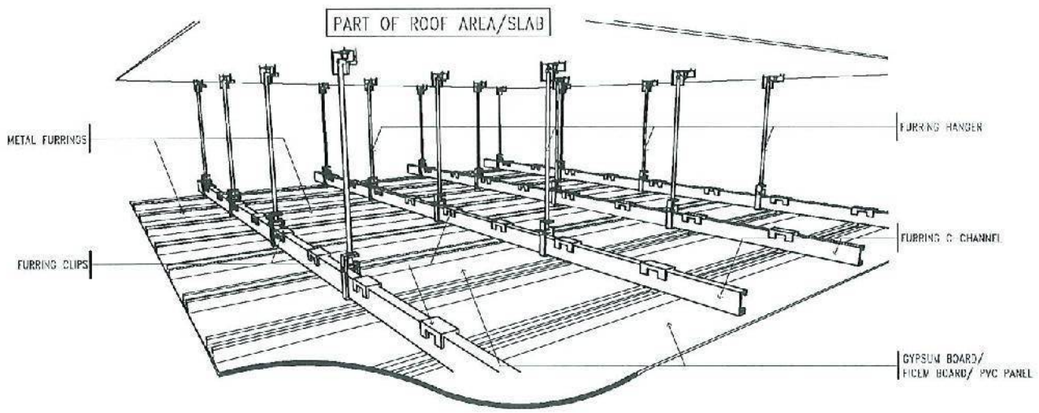
ROOF DECK REFLECTIVE CEILING PLAN

SCALE 1:175 M



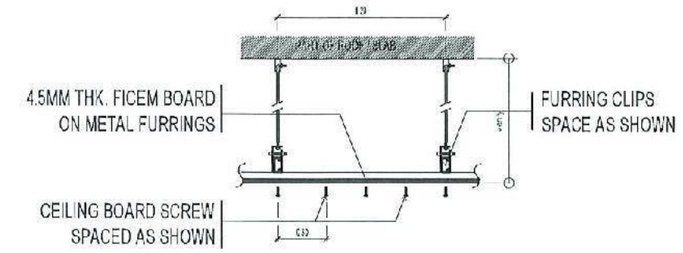
SECTION DETAIL A

SCALE 1:60MTS.



TYPICAL CEILING DETAILS

SCALE : NTS

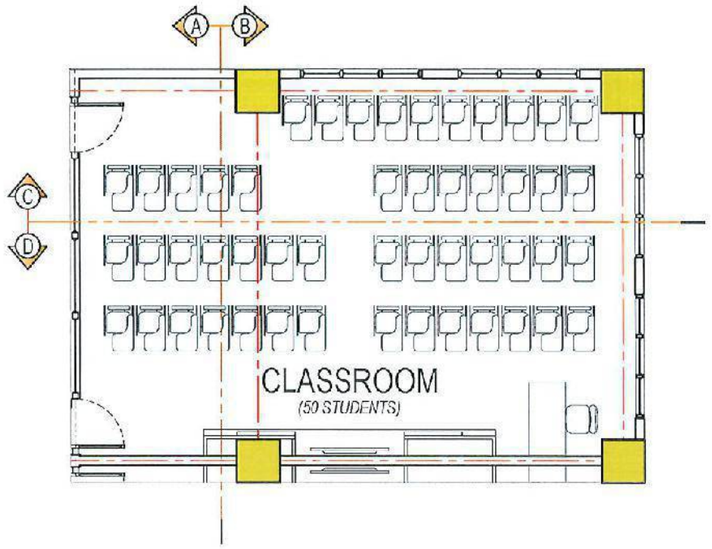


SECTION DETAIL - B

SCALE 1:60MTS.

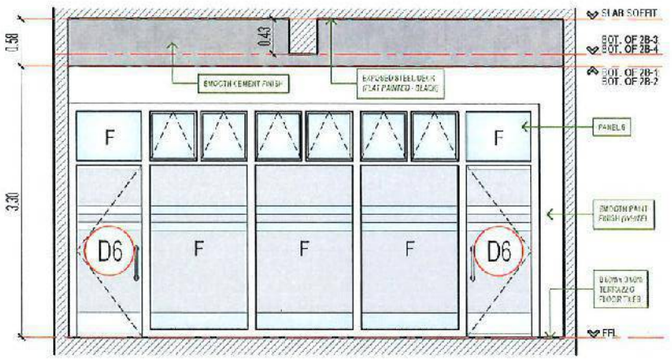
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: AR. JHON CARLO V. MAMACLAY, DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-26
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 26/100



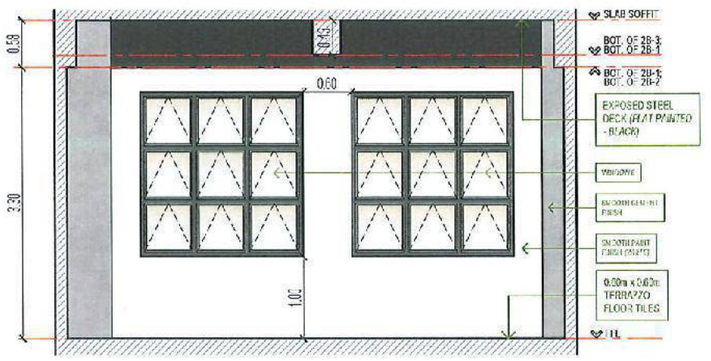
TYPICAL CLASS ROOM FLOOR PLAN

SCALE 1:100M



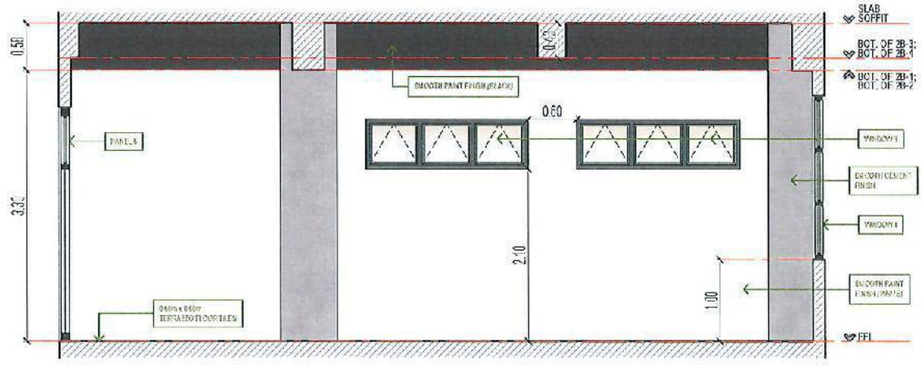
SECTION THRU - A

SCALE 1:75M



SECTION THRU - B

SCALE 1:75M



SECTION THRU - C

SCALE 1:75M

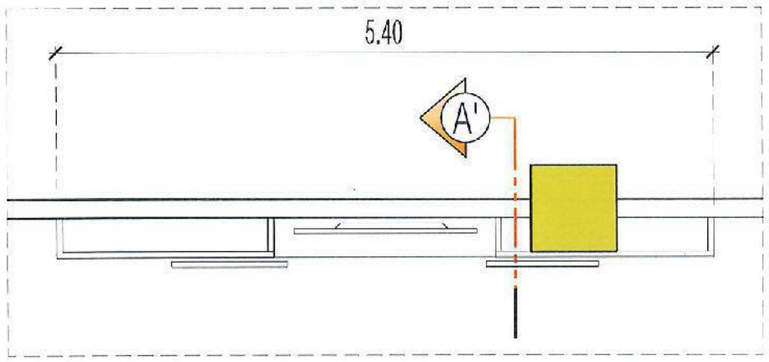


SECTION THRU - D

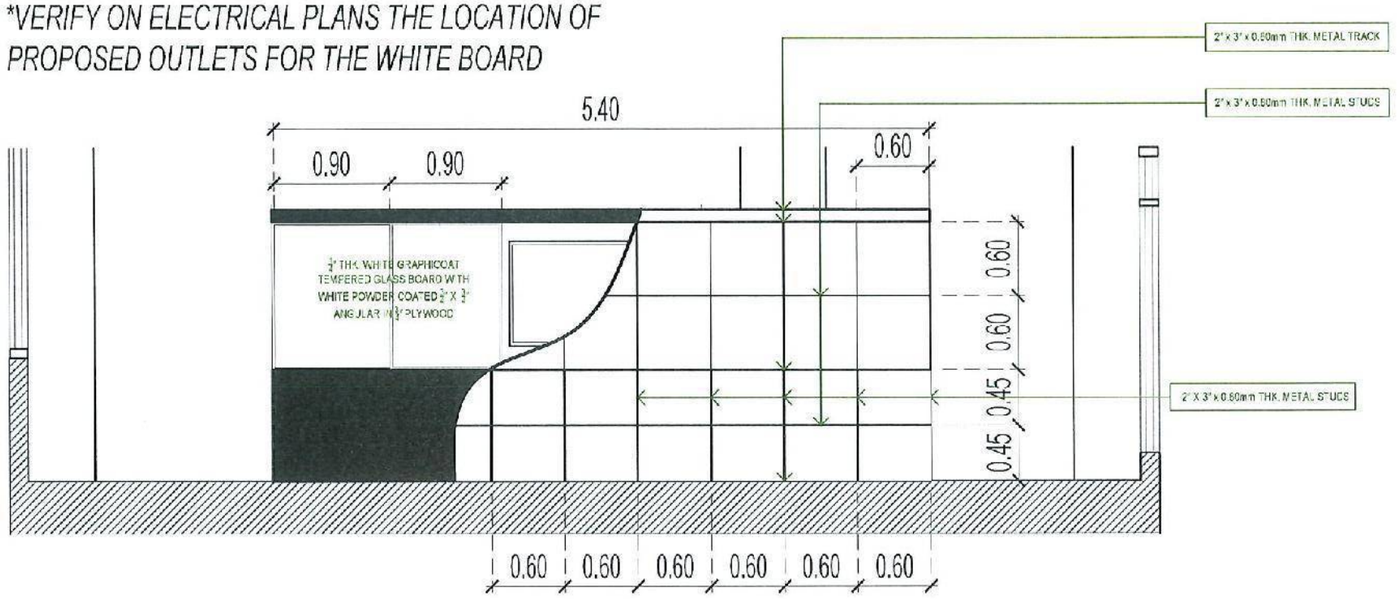
SCALE 1:75M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. PAULINE ANGELA V. MARTINEZ DRAFTSMAN	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-27 PAGE NO: 27/100

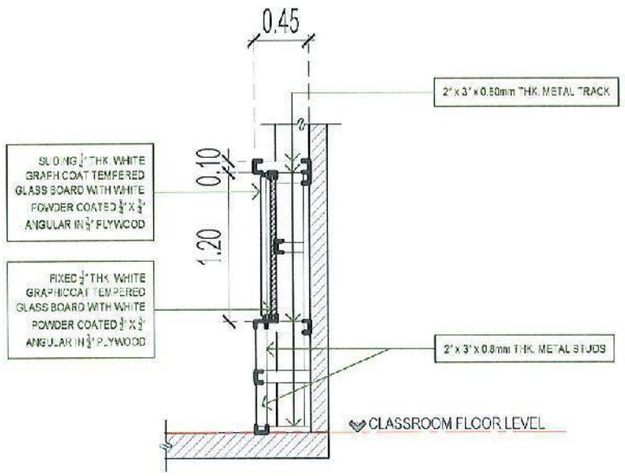
*VERIFY ON ELECTRICAL PLANS THE LOCATION OF PROPOSED OUTLETS FOR THE WHITE BOARD



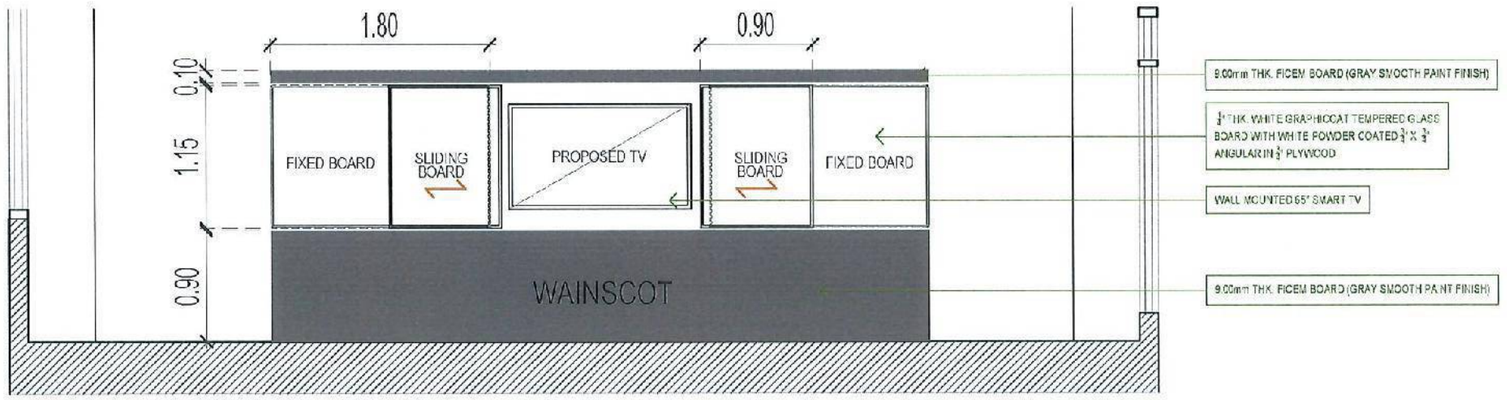
PLAN VIEW



SECTION



SECTION THRU A'



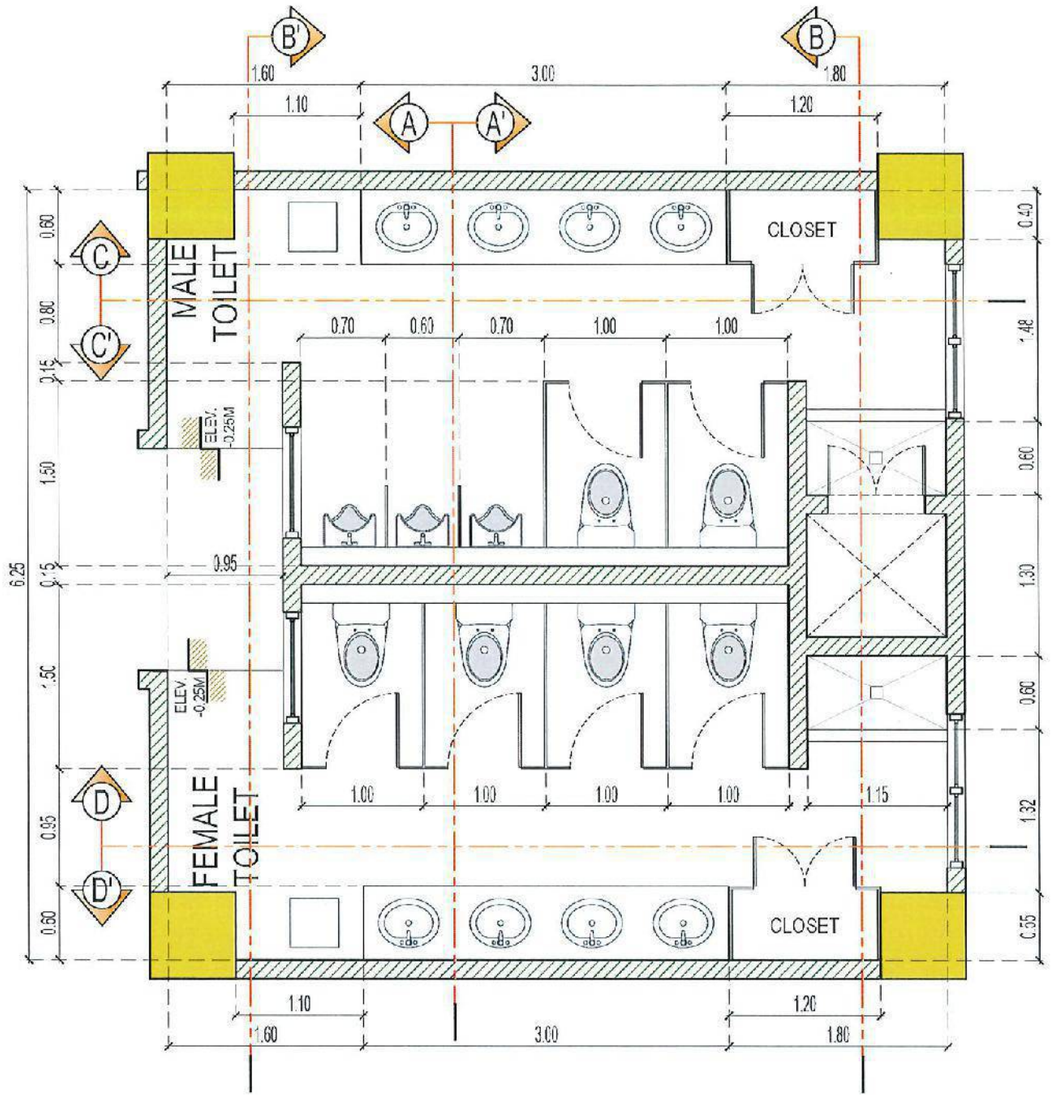
FRONT ELEVATION

TYPICAL WHITEBOARD DETAILS

SCALE 1:50M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

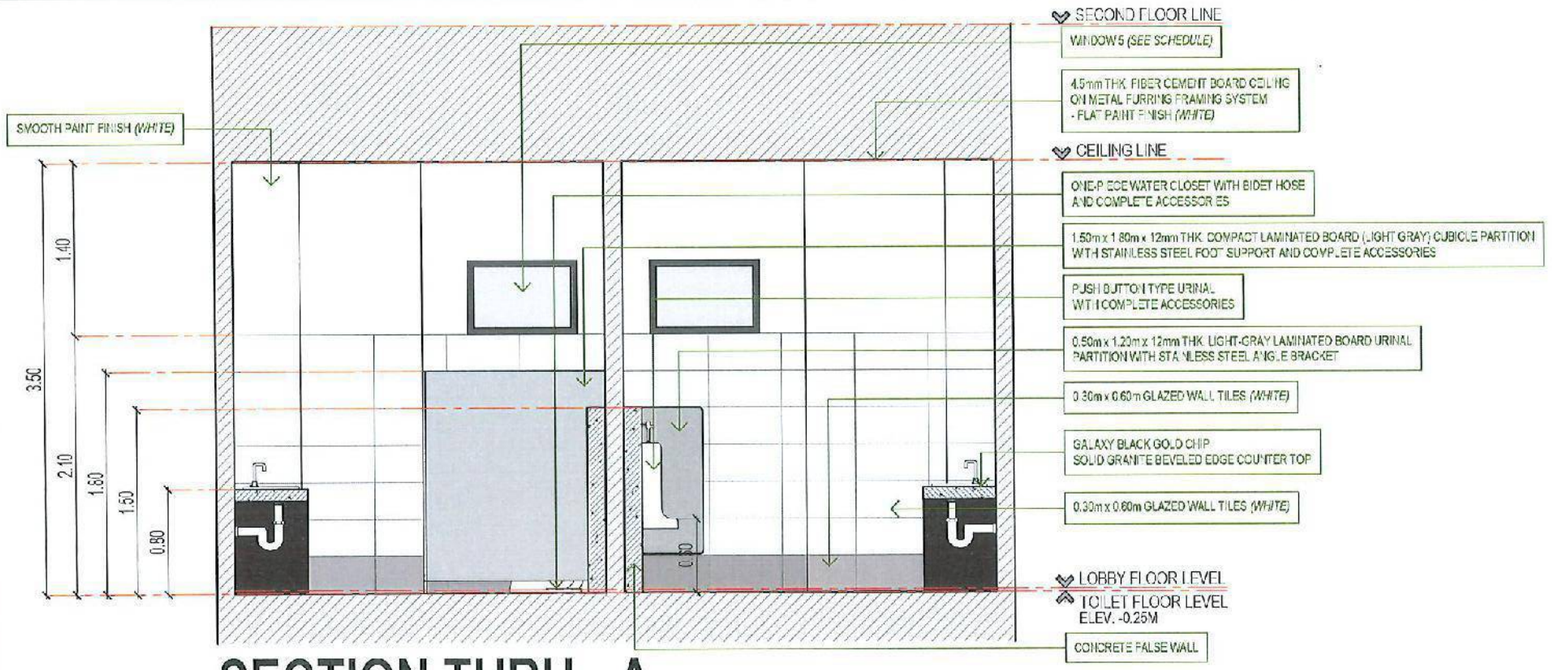
PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: AR. CAROLINE ANGELA M. MARTINEZ, DRAFTSMAN	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER MAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-28
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2023	PAGE NO: 28/100



GROUND FLOOR TOILET BLOW-UP PLAN

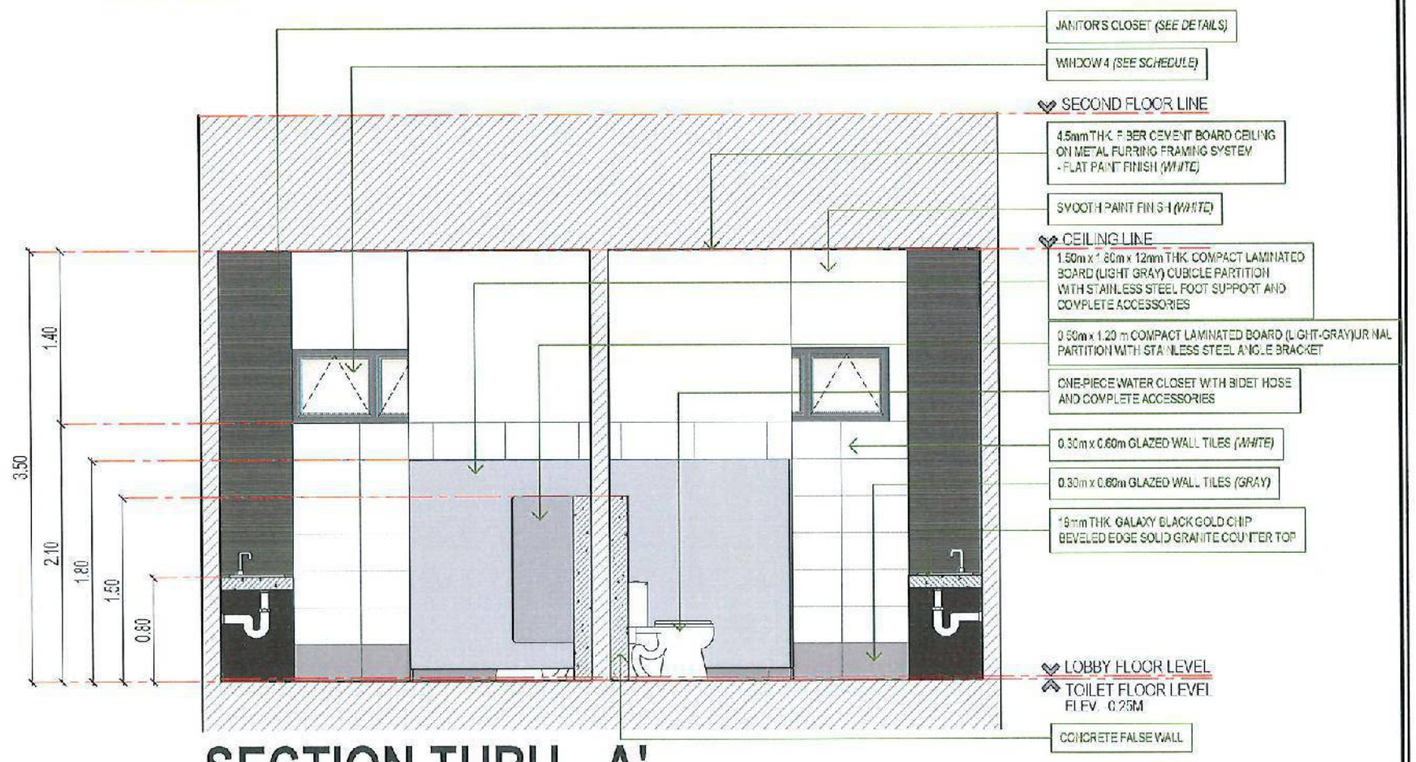
SCALE 1:50 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDM	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON Y. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-29 PAGE NO: 29/100



SECTION THRU - A

SCALE 1:50 M



SECTION THRU - A'

SCALE 1:50 M

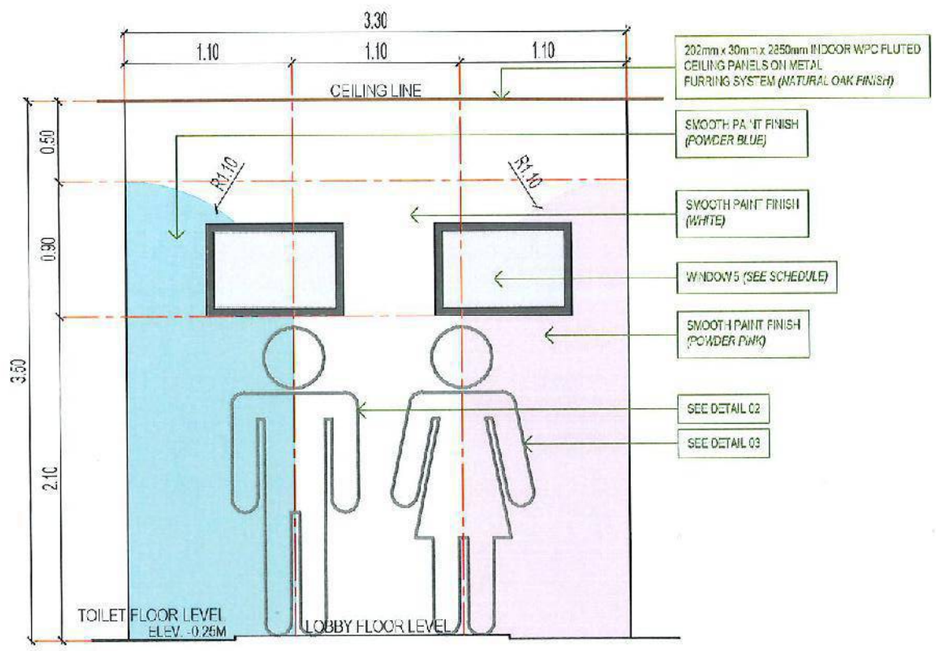
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: AR. JHON CARLO V. MAMACLAY, DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-30
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2023	PAGE NO: 30/100



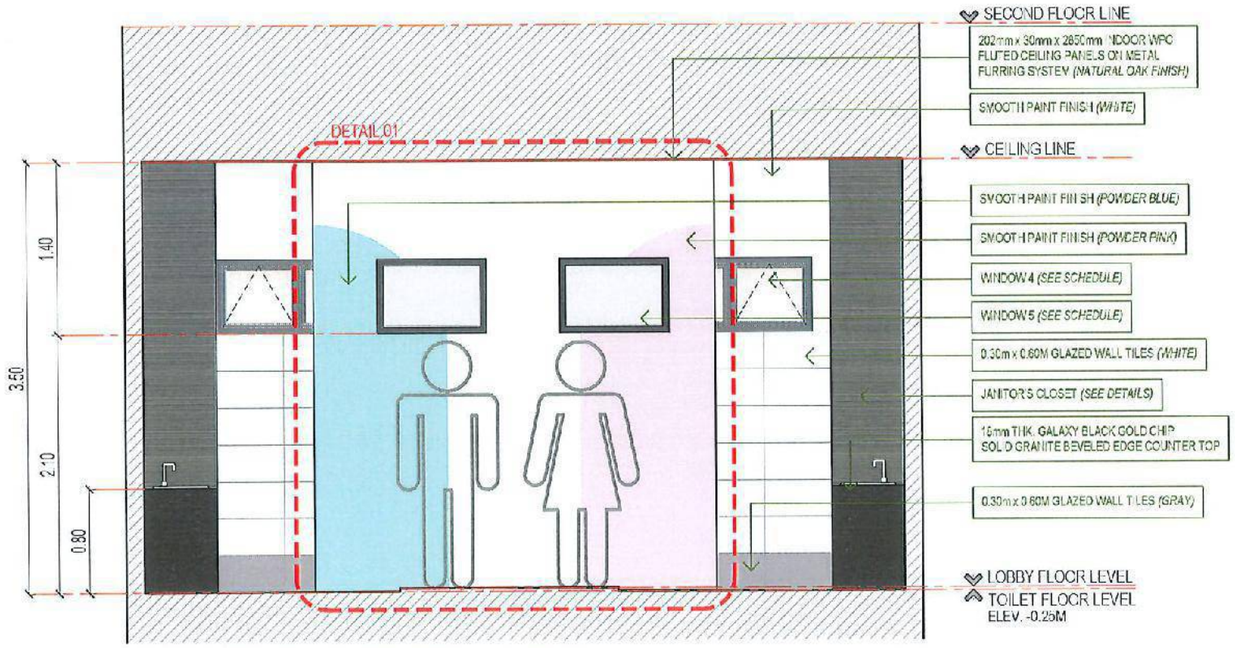
SECTION THRU - B

SCALE 1:50 M



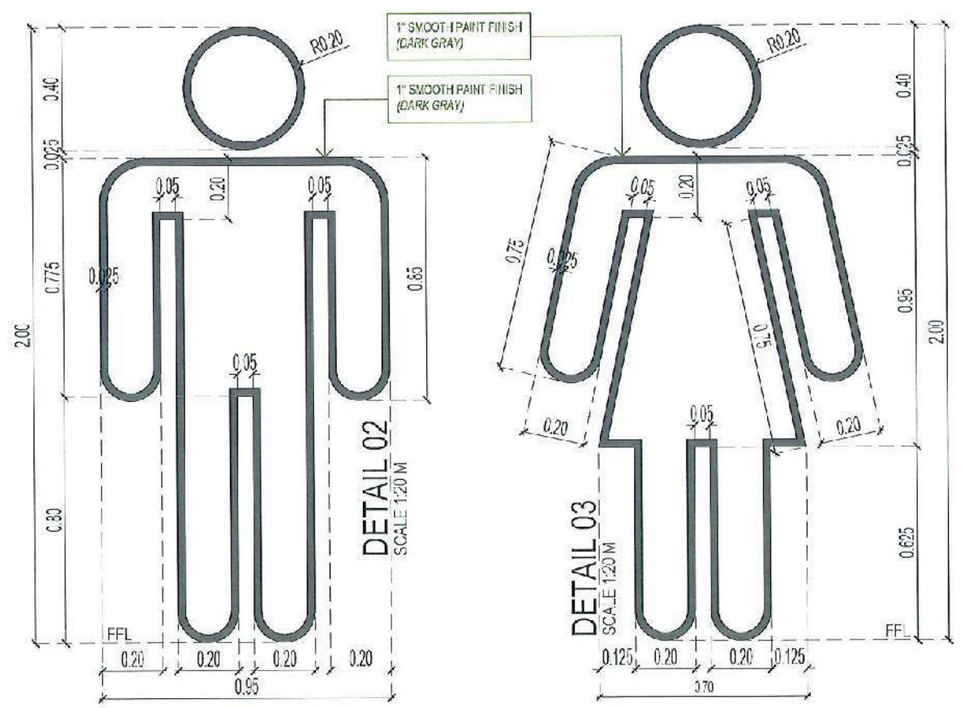
DETAIL 01

SCALE 1:40 M

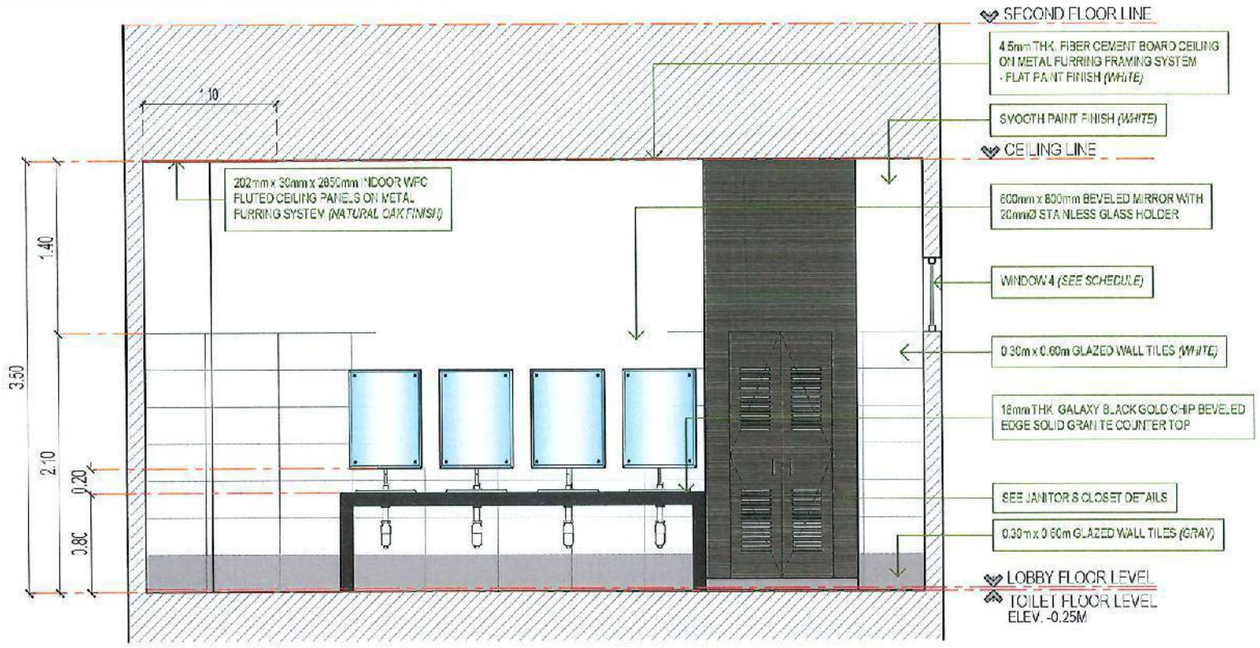


SECTION THRU - B'

SCALE 1:50 M

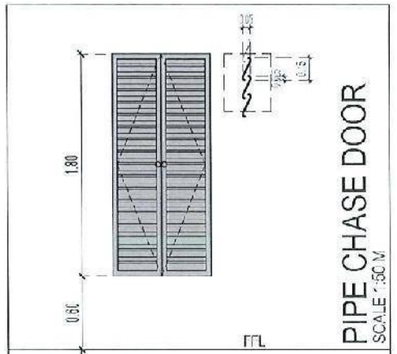


TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, OFDM-FDII	CHECKED BY: AR. CHERRY L. TABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, OSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY M. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2025	SHEET NO: A-31 PAGE NO. 31/100



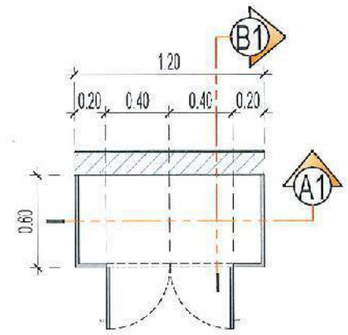
SECTION THRU - C

SCALE 1:50 M



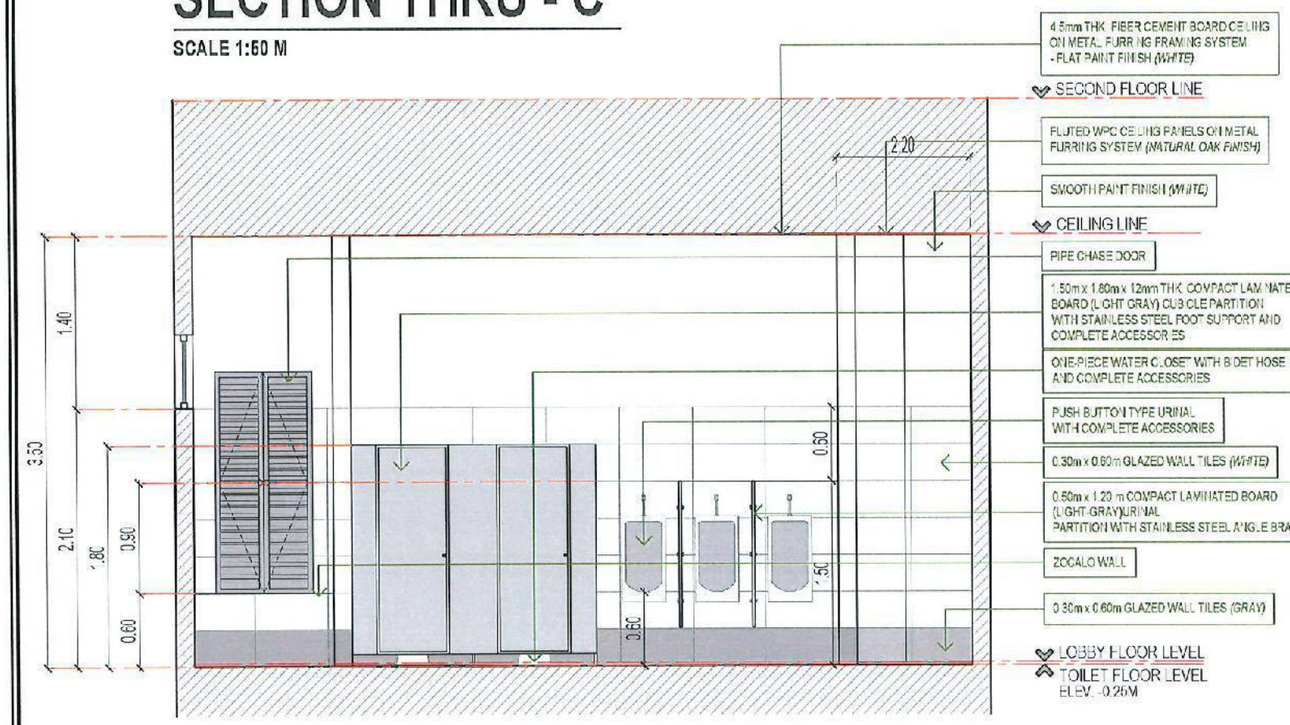
PIPE CHASE DOOR
SCALE 1:50 M

QUANTITY	3 - SETS
LOCATION	PIPE CHASE
DESCRIPTION	SINGLE SWING STEEL LOUVER DOOR (SMOOTH PAINT FINISH) FRAMING: 2" X 3" X 1.5mm thk. G.I. TUBULAR LOUVERS: 0.5mm THK. PRE-PAINTED G.I. SHEET ACCESSORIES: 3" Ø HEAVY DUTY CYLINDRICAL HINGES, 12mm ROUND BAR HANDLE WITH HEAVY DUTY PADLOCK



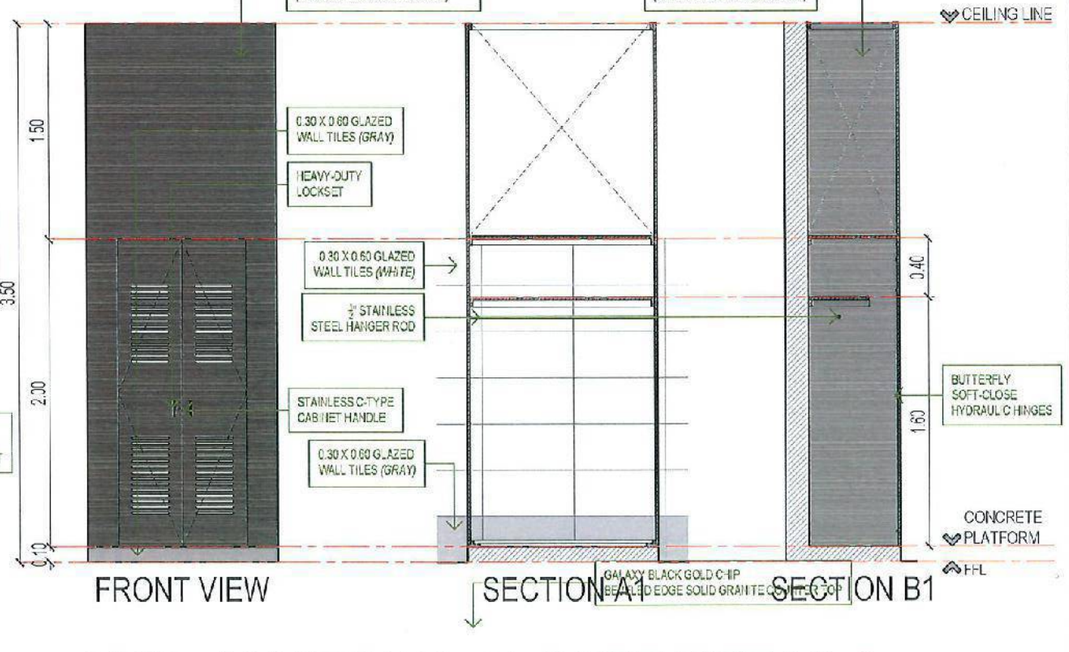
JANITOR'S CLOSET

SCALE 1:40 M



SECTION THRU - C'

SCALE 1:50 M

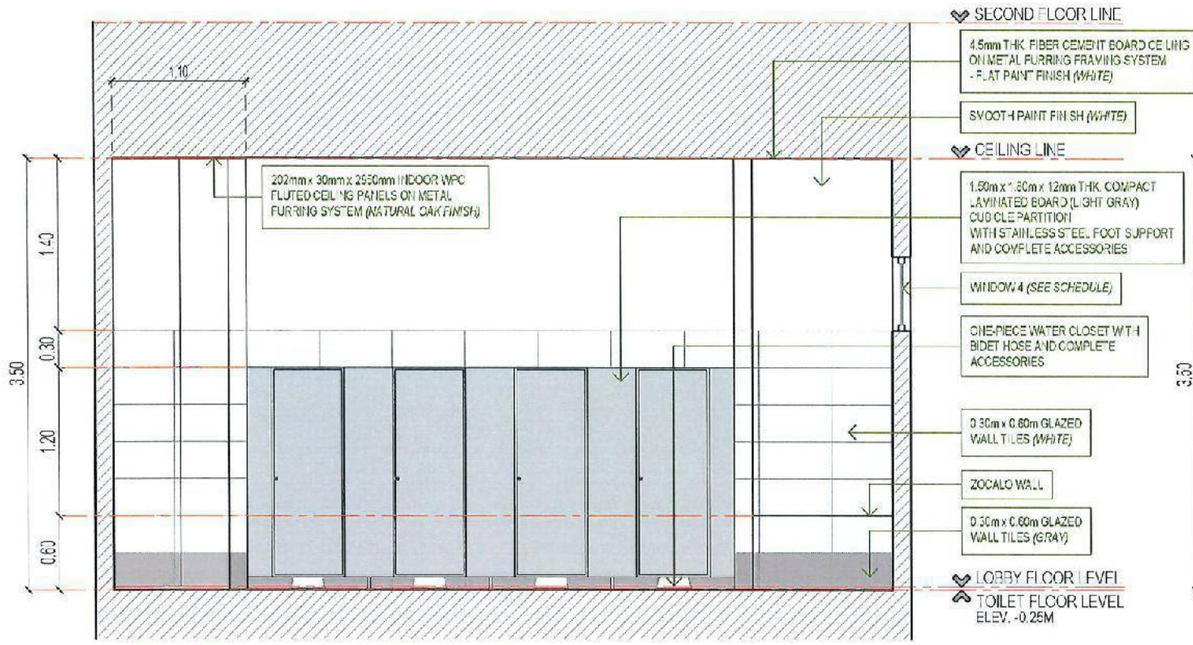


TYP. JANITOR'S CLOSET DETAILS

SCALE 1:40 M

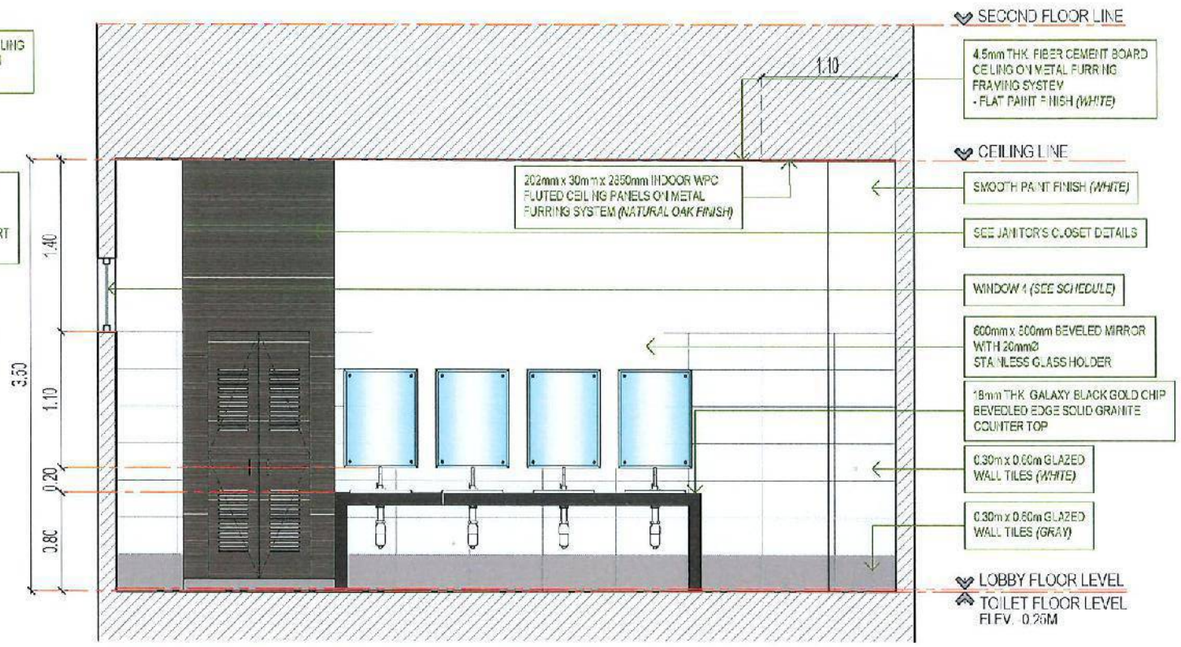
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY, CRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-32 PAGE NO: 32/100



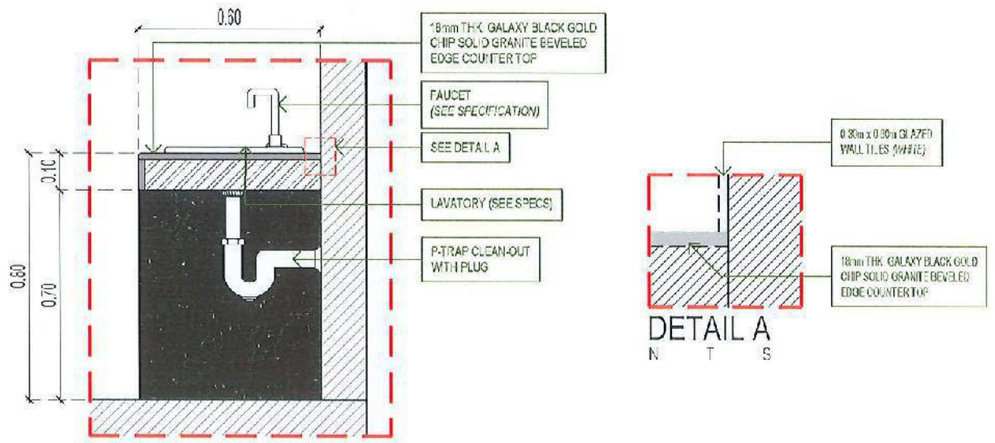
SECTION THRU - D

SCALE 1:50 M



SECTION THRU - D'

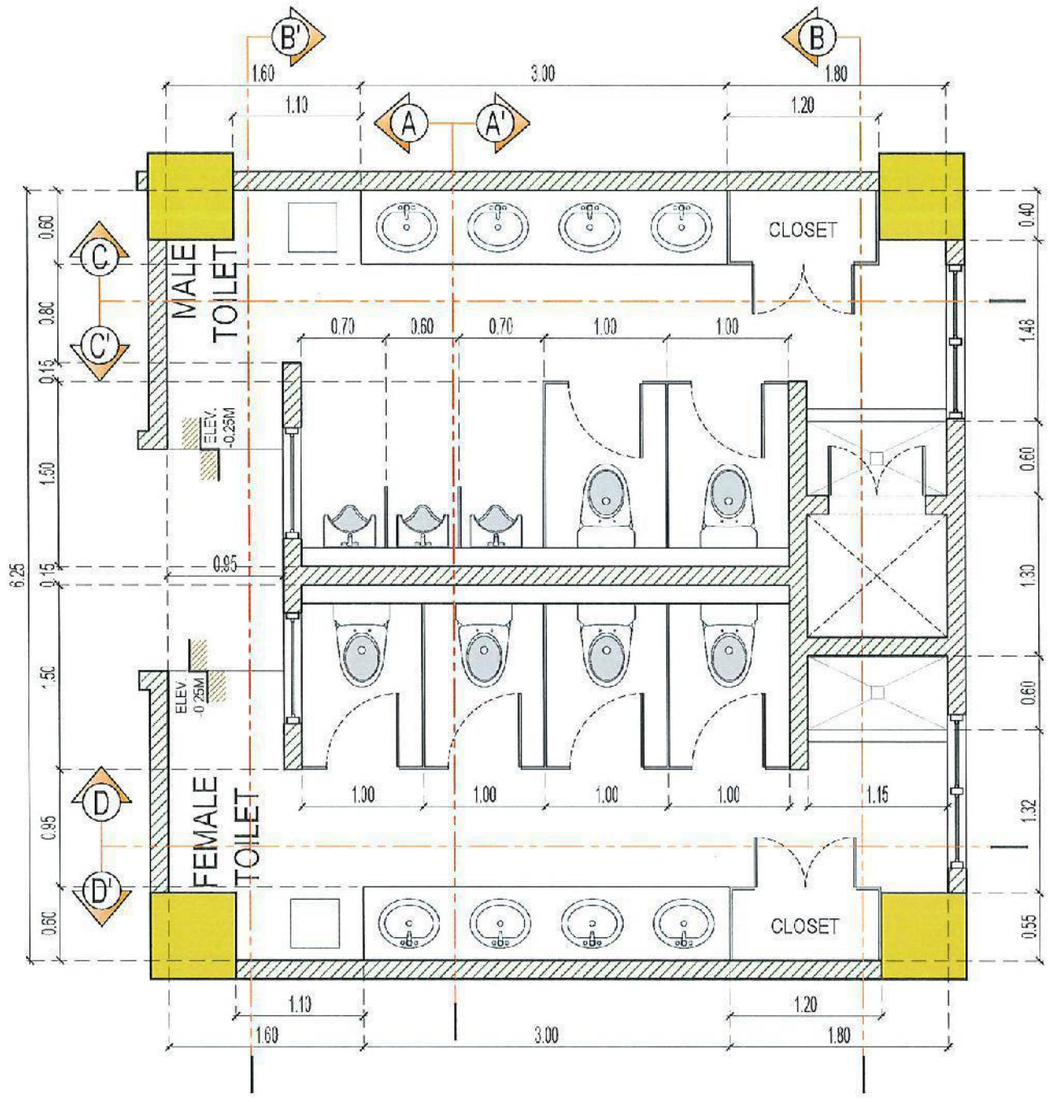
SCALE 1:50 M



COUNTER TOP DETAILS

SCALE 1:20 M

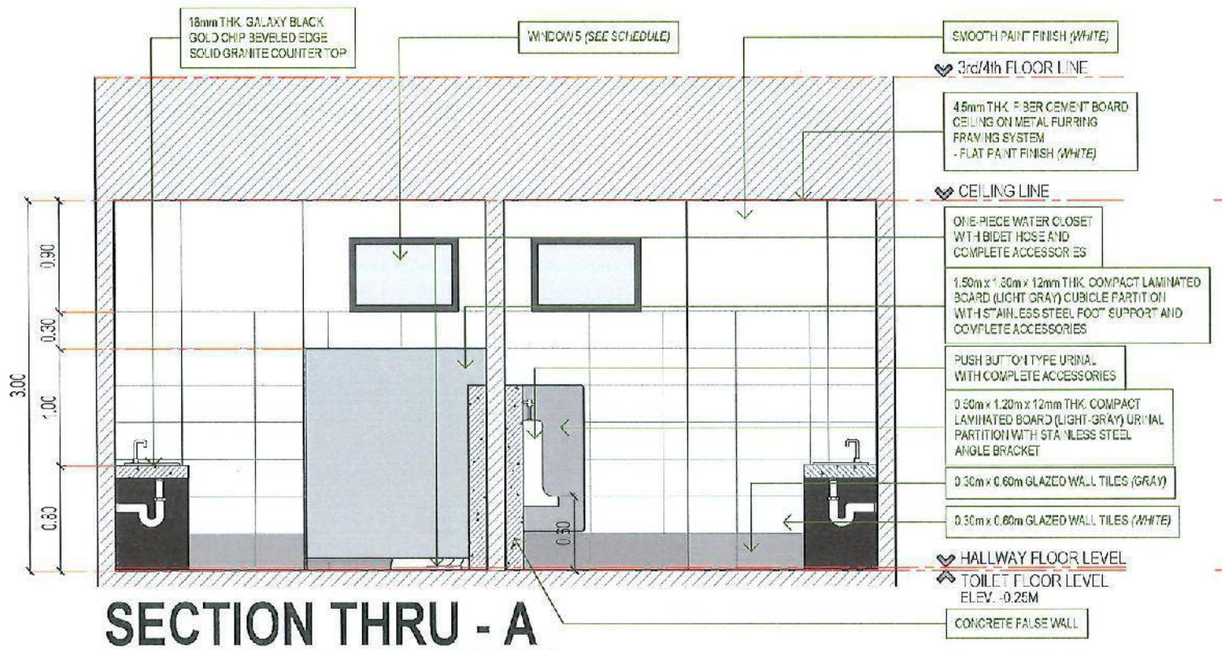
TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAVIDAY DRAFTSMAN, OFDM-PDO	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDO	CERTIFIED BY: AR. AILEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-33 PAGE NO: 33/100



2ND - 3RD FLOOR TOILET BLOW-UP PLAN

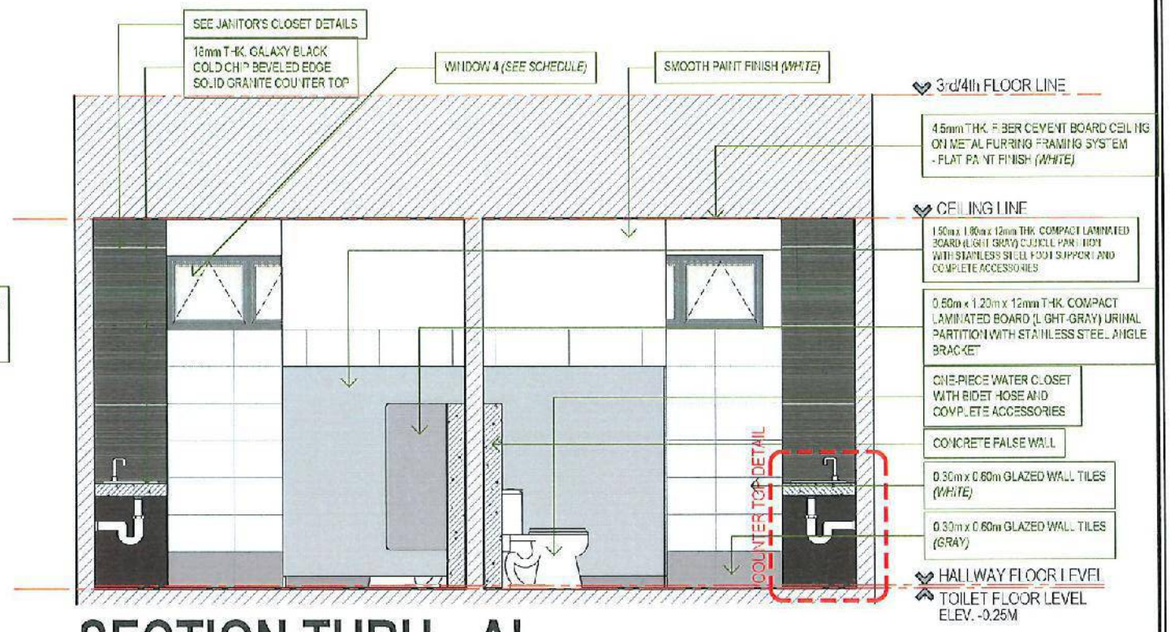
SCALE 1:50 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, DFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, DFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, DFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-34 PAGE NO: 34/100



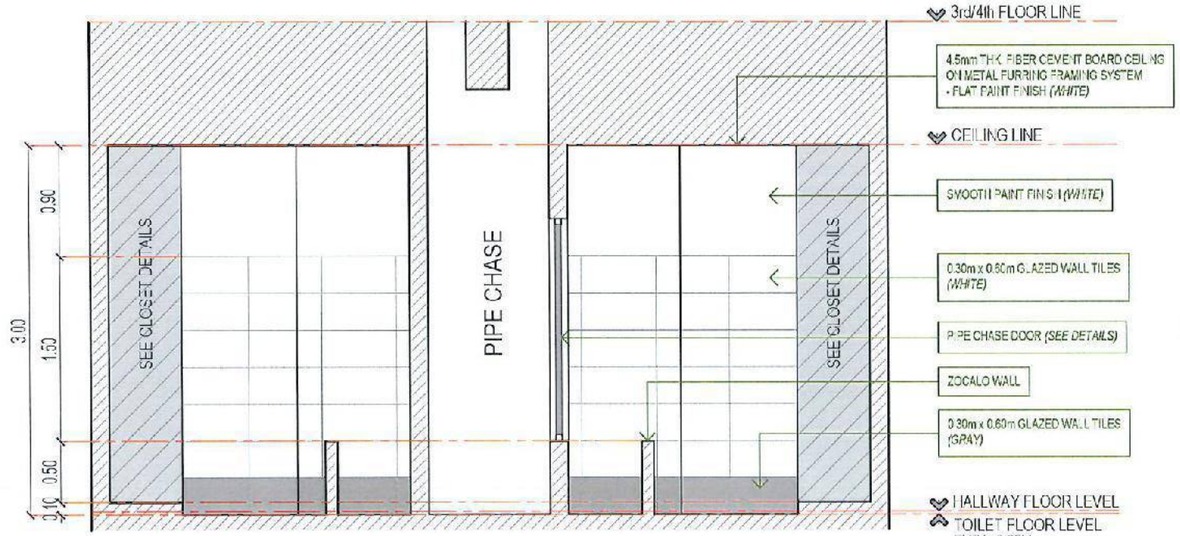
SECTION THRU - A

SCALE 1:50 M



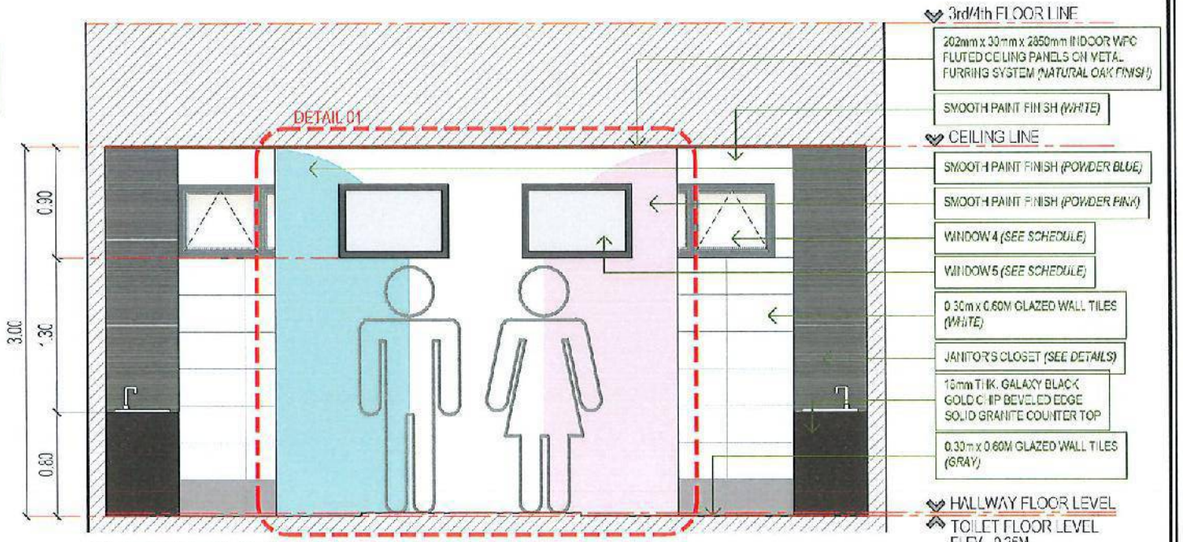
SECTION THRU - A'

SCALE 1:50 M



SECTION THRU - B

SCALE 1:50 M

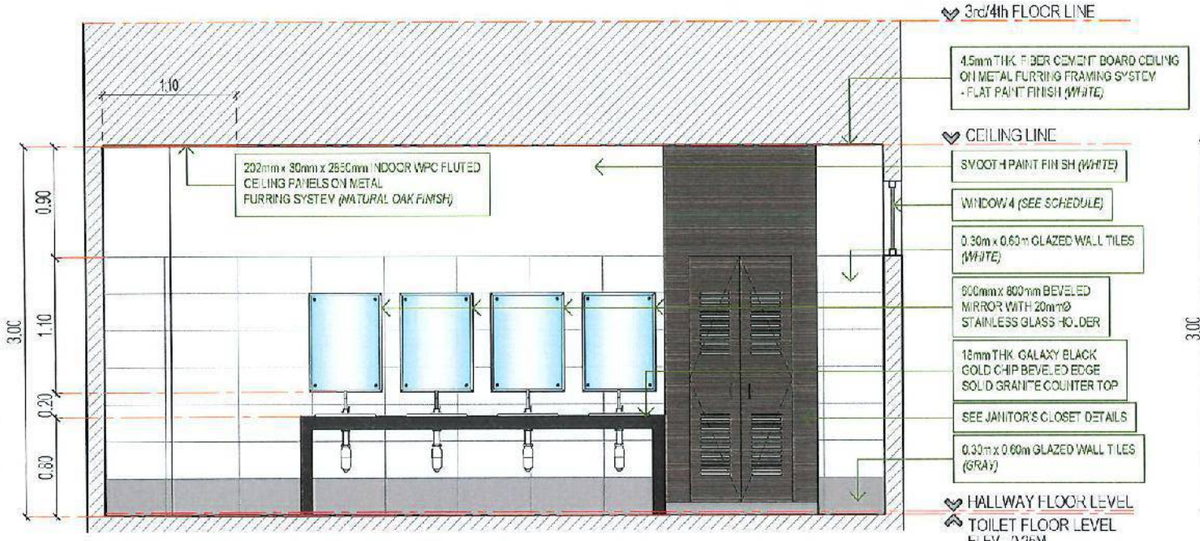


SECTION THRU - B'

SCALE 1:50 M

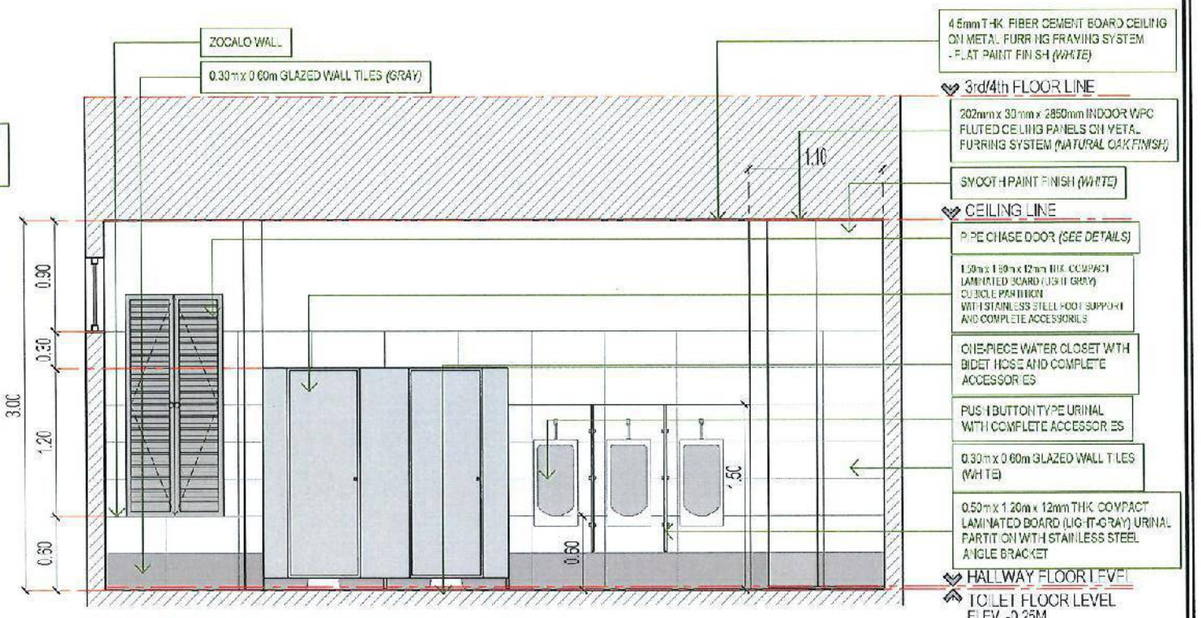
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: AR. JP SAN CARLO V. MAMACLAY, DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSLT	RECOMMENDING APPROVAL: DR. MARLON V. CAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-35
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 35/100



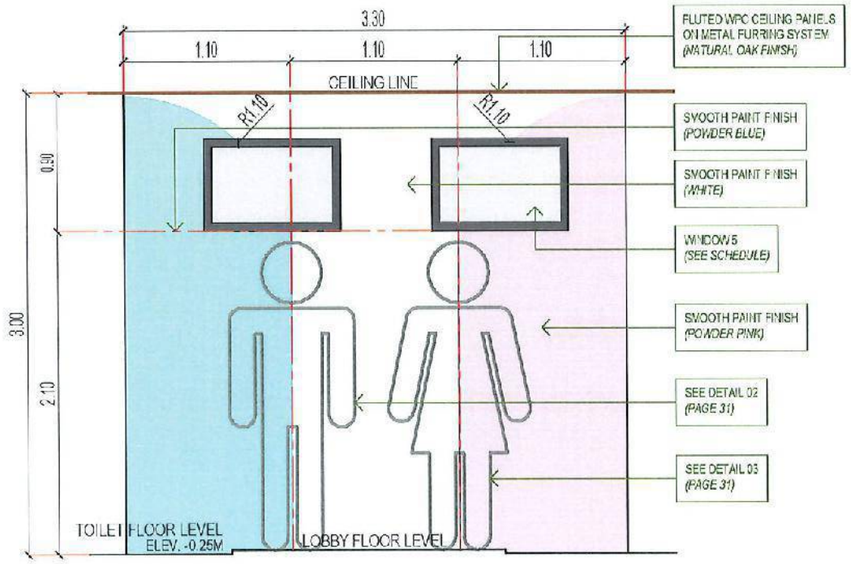
SECTION THRU - C

SCALE 1:50 M



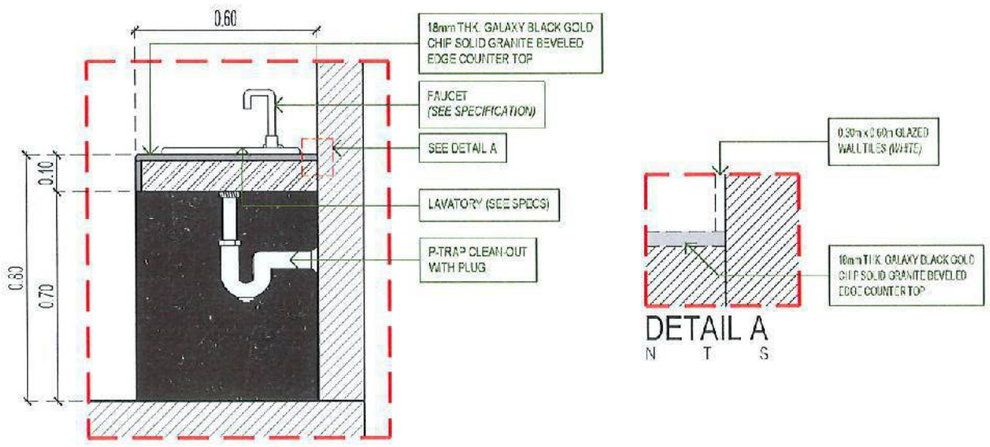
SECTION THRU - C'

SCALE 1:50 M



DETAIL 01

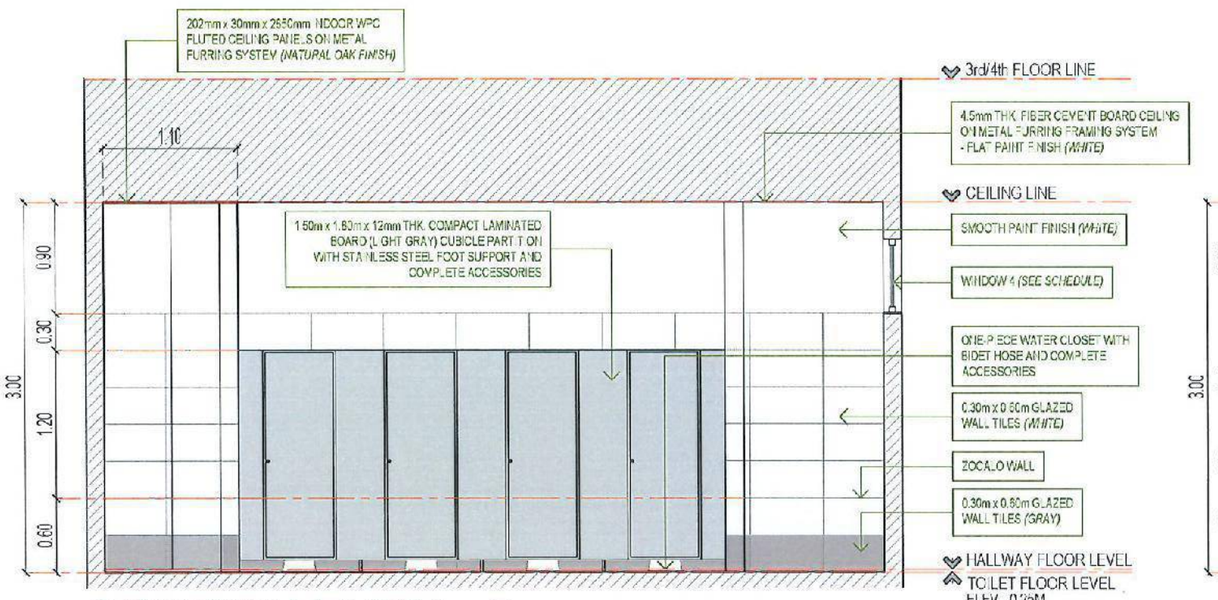
SCALE 1:40 M



COUNTER TOP DETAILS

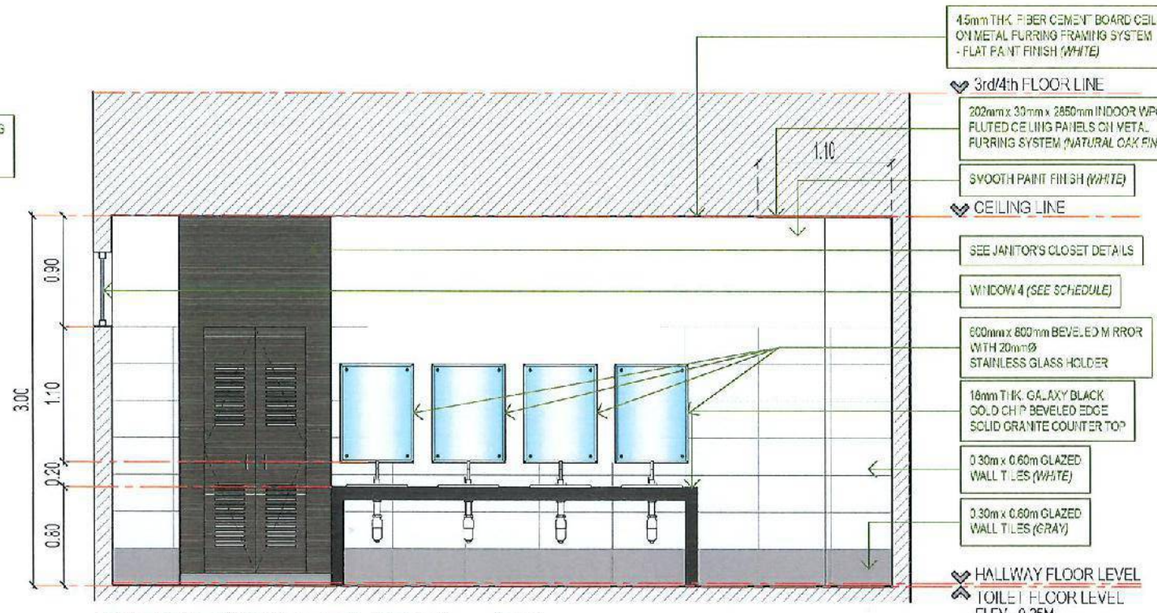
SCALE 1:20 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JITON CARLO V. MAMACLAY DRAFTSMAN, OFDM-PDO	CHECKED BY: AR. CHERRY L. TABIANES HEAD, OFDM-PDO	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-36 PAGE NO: 36/100



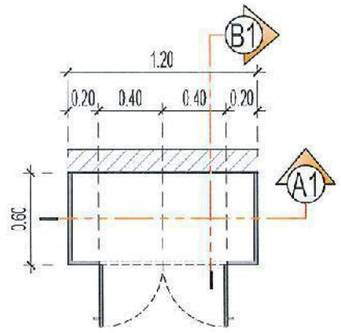
SECTION THRU - D

SCALE 1:50 M



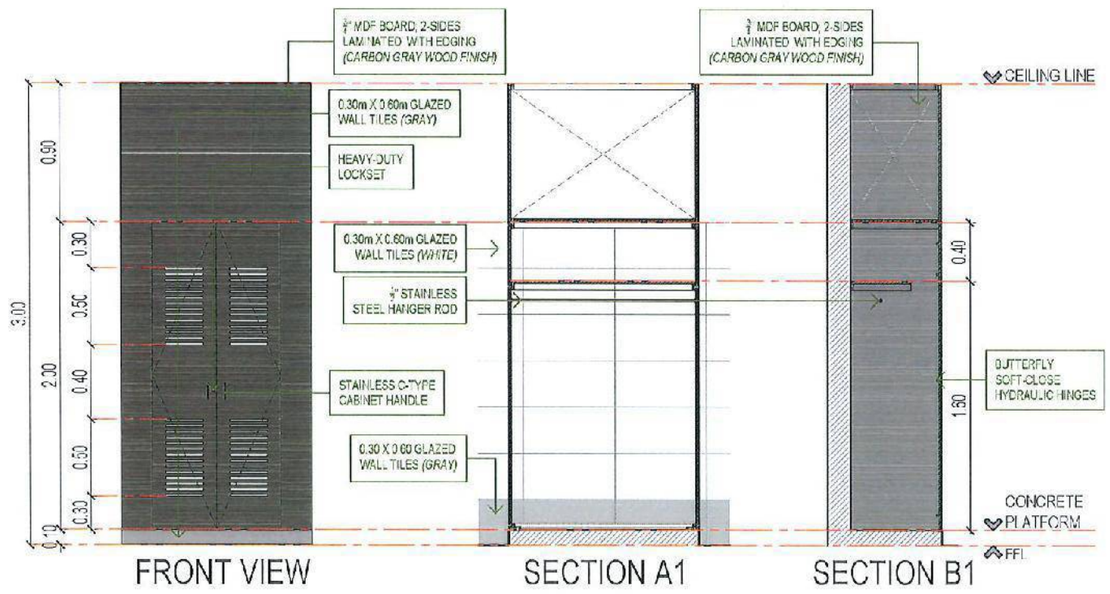
SECTION THRU - D'

SCALE 1:50 M



JANITOR'S CLOSET

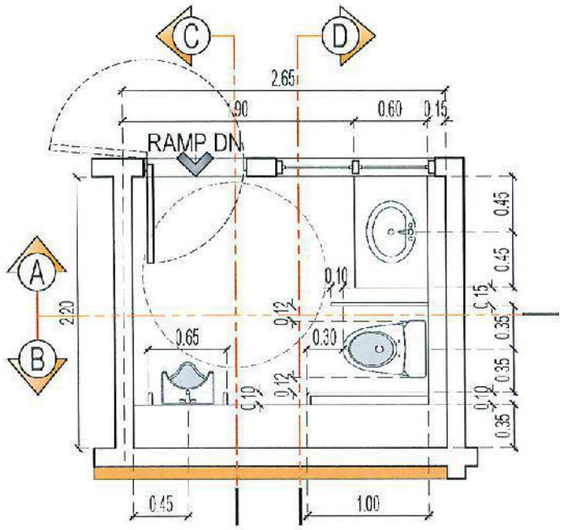
SCALE 1:40 M



TYP. JANITOR'S CLOSET DETAILS

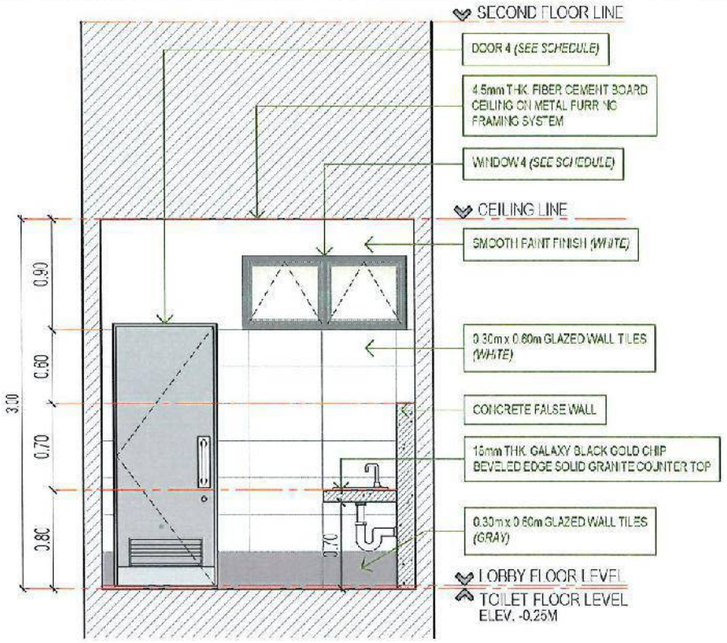
SCALE 1:40 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. JHON CARLO V. MAMACLAY DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. TABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-37 PAGE NO: 37/100



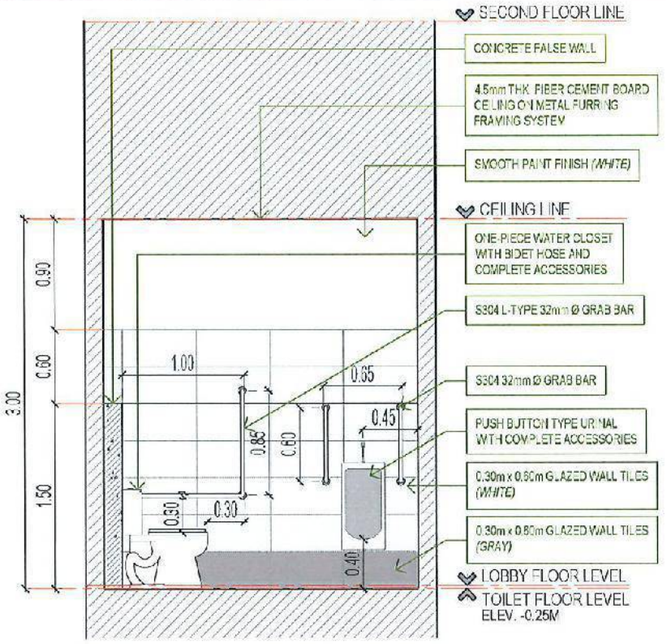
TYPICAL PWD & GENDER NEUTRAL TOILET BLOW-UP PLAN

SCALE 1:50 M



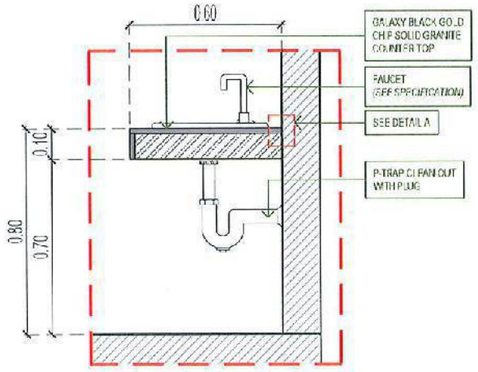
SECTION THRU - A

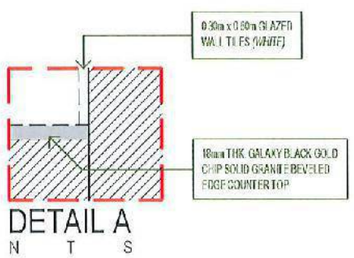
SCALE 1:50 M



SECTION THRU - B

SCALE 1:50 M

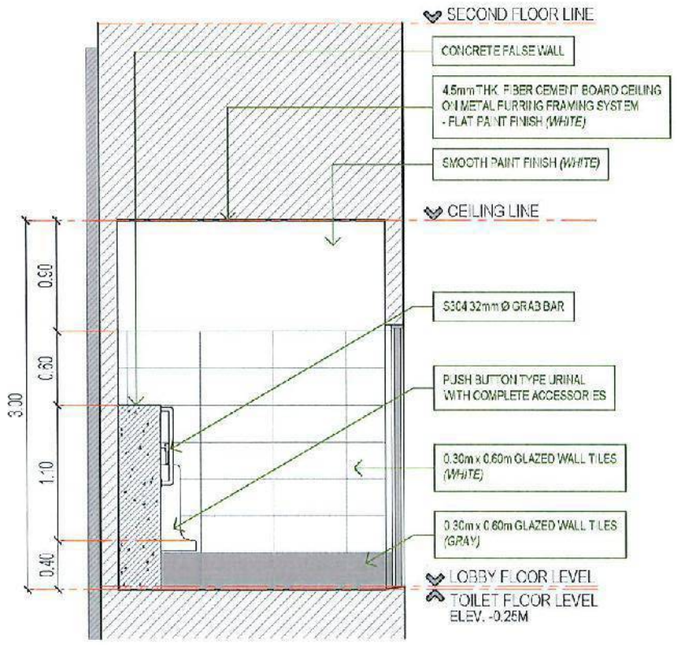




DETAIL A
N T S

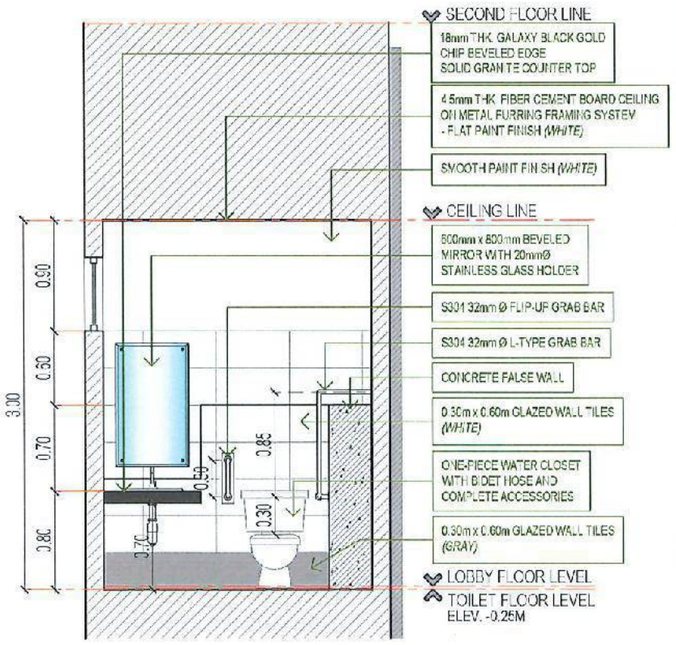
COUNTER TOP DETAILS

SCALE 1:20 M



SECTION THRU - C

SCALE 1:50 M

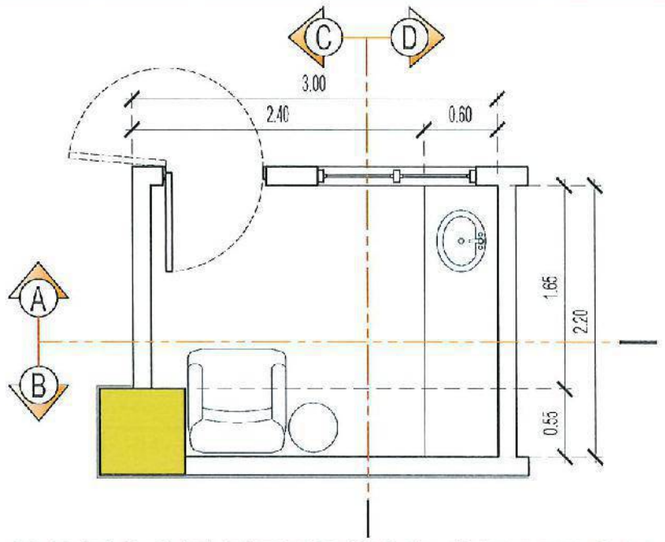


SECTION THRU - D

SCALE 1:50 M

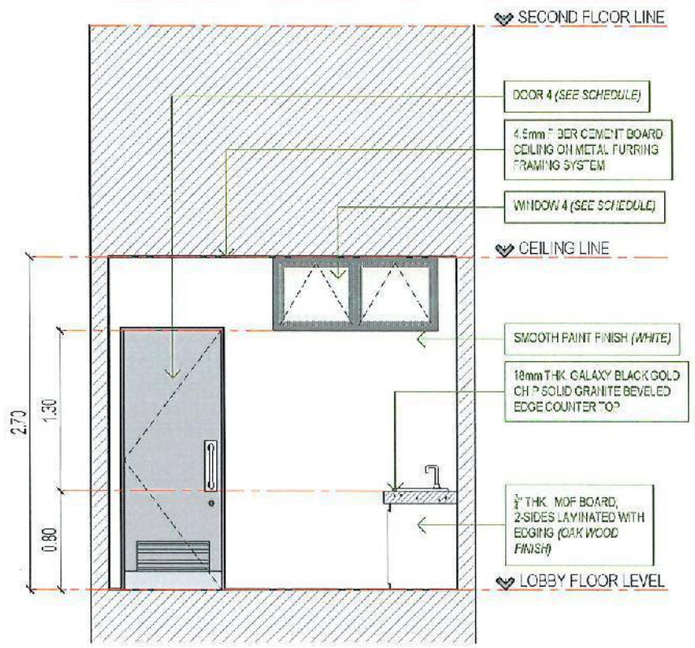
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: AR. JHON CARLO V. MAMACLAY, DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-38
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 38/100



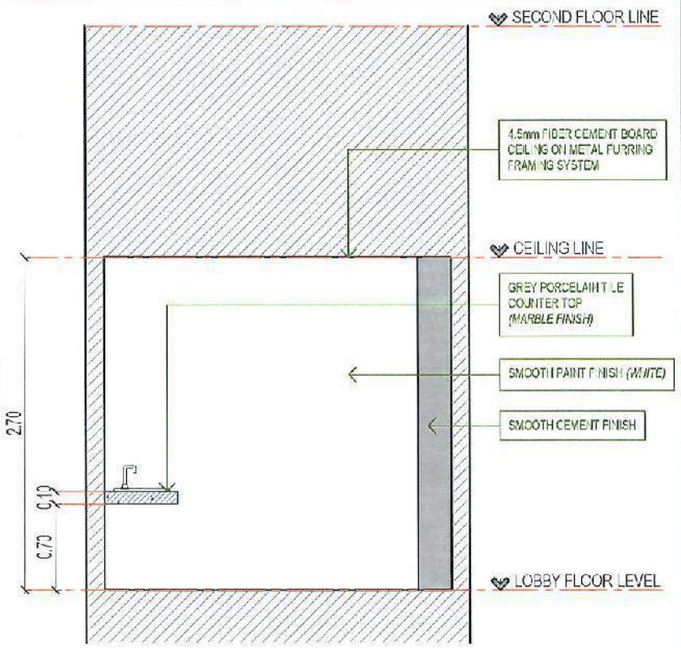
BREAST FEEDING STATION

SCALE 1:50 M



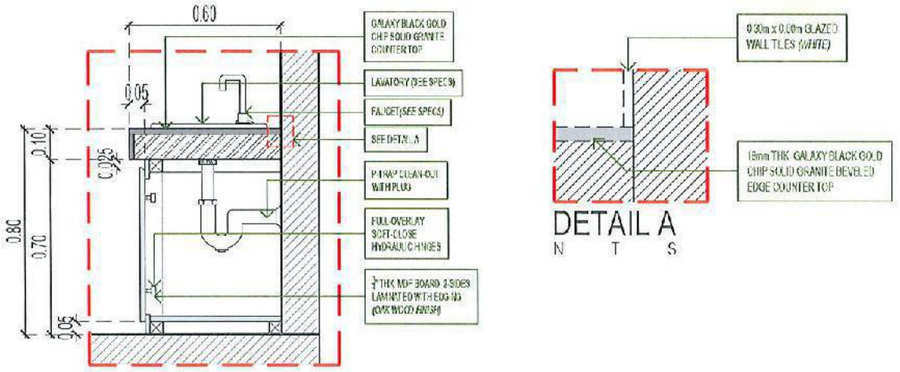
SECTION THRU - A

SCALE 1:50 M



SECTION THRU - B

SCALE 1:50 M

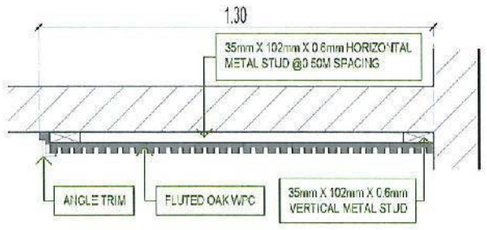


DETAIL A

N T S

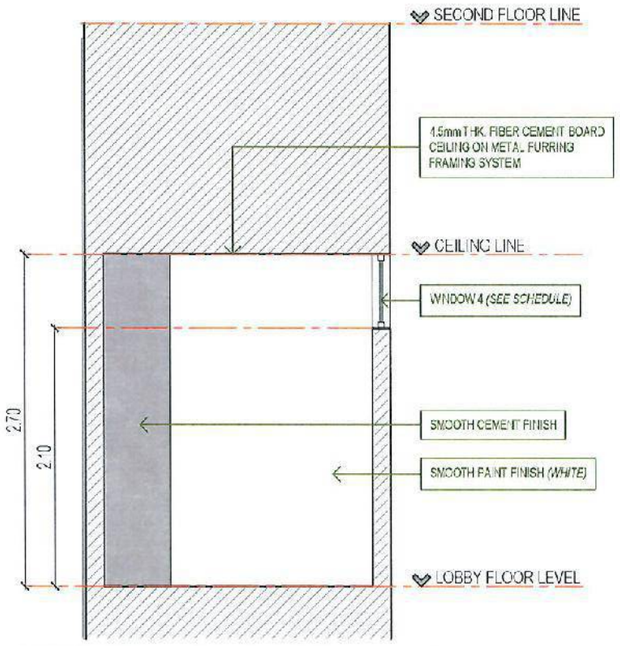
COUNTER TOP DETAILS

SCALE 1:20 M



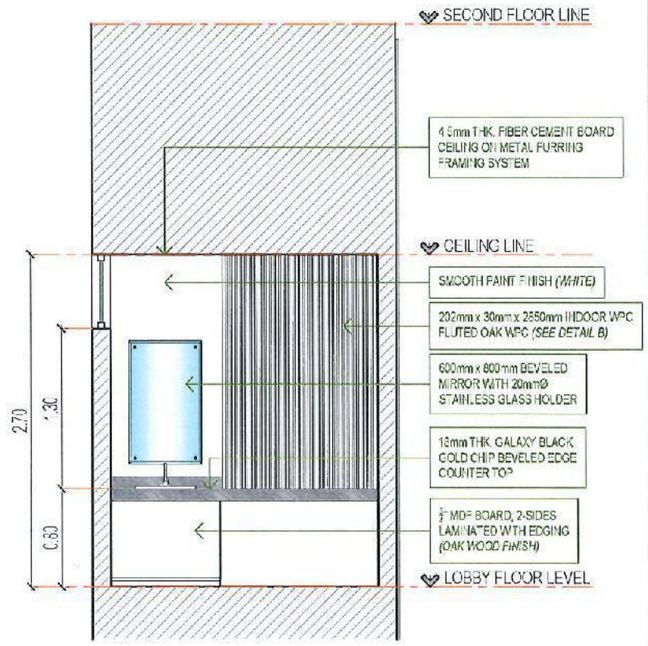
DETAIL B

SCALE 1:20 M



SECTION THRU - C

SCALE 1:50 M

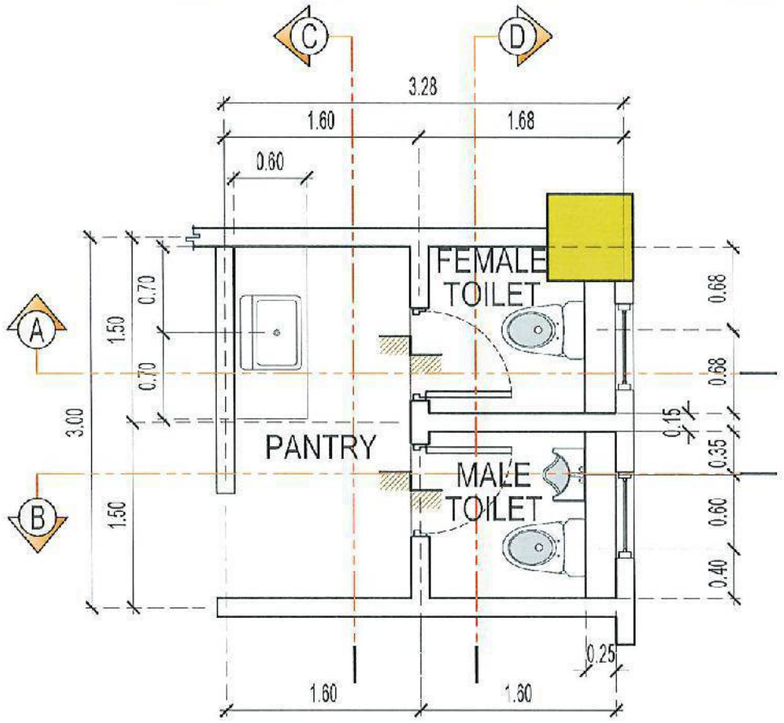


SECTION THRU - D

SCALE 1:50 M

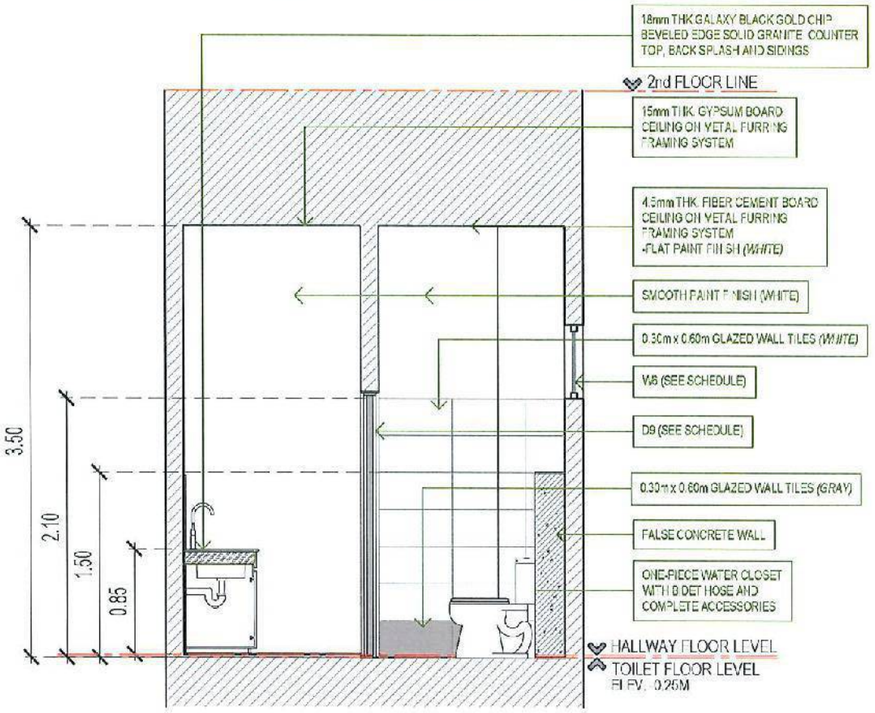
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECURSTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	AR. JHON CARLO V. NAMACLAY DRAFTSMAN, OFDM-PDU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. JEOP P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPIT JAY N. MENDOZA PRESIDENT	AS SHOWN	A-39
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 39/100



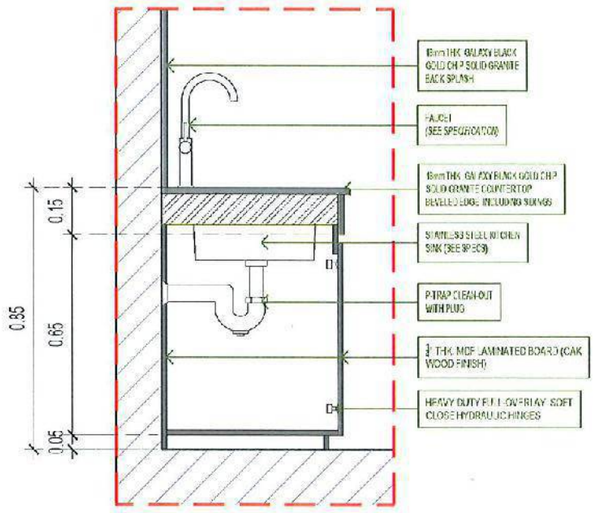
DIRECTOR'S OFFICE TOILET BLOW-UP PLAN

SCALE 1:50 M



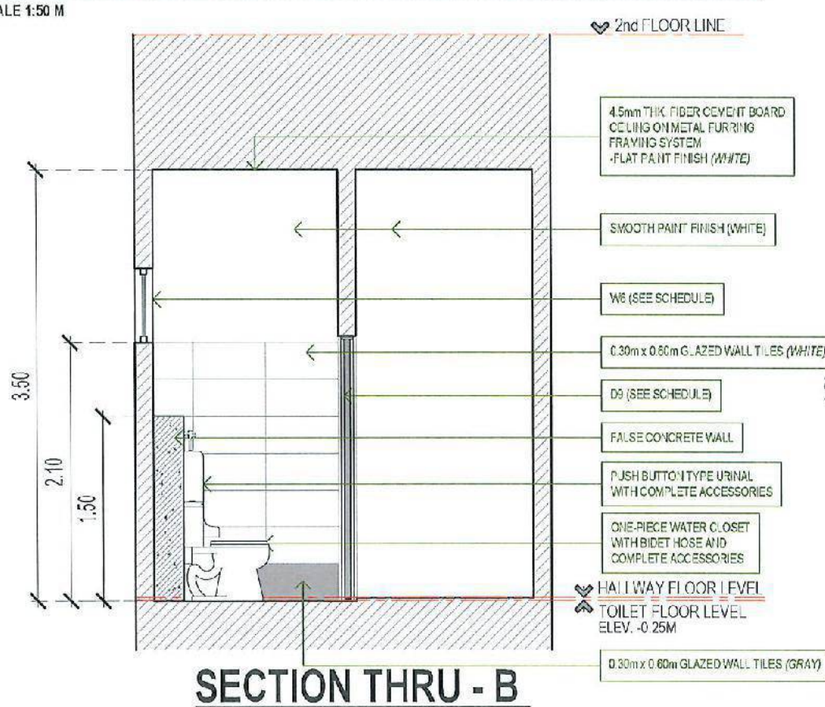
SECTION THRU - A

SCALE 1:50 M



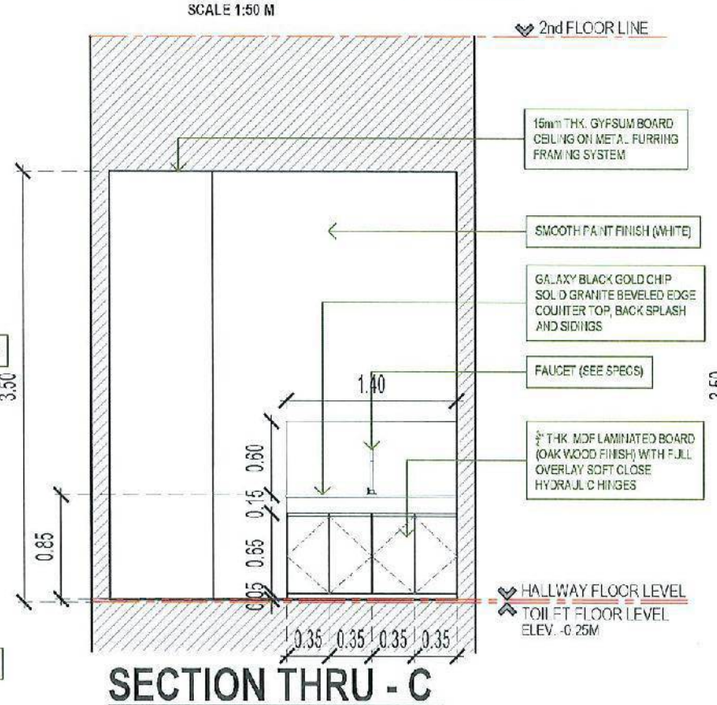
COUNTER TOP DETAILS

SCALE 1:20 M



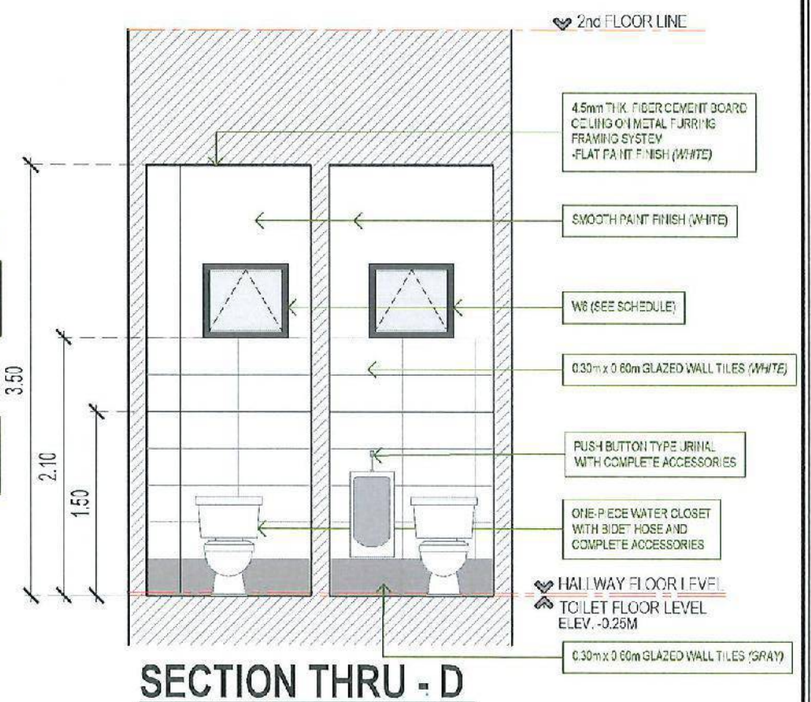
SECTION THRU - B

SCALE 1:50 M



SECTION THRU - C

SCALE 1:50 M

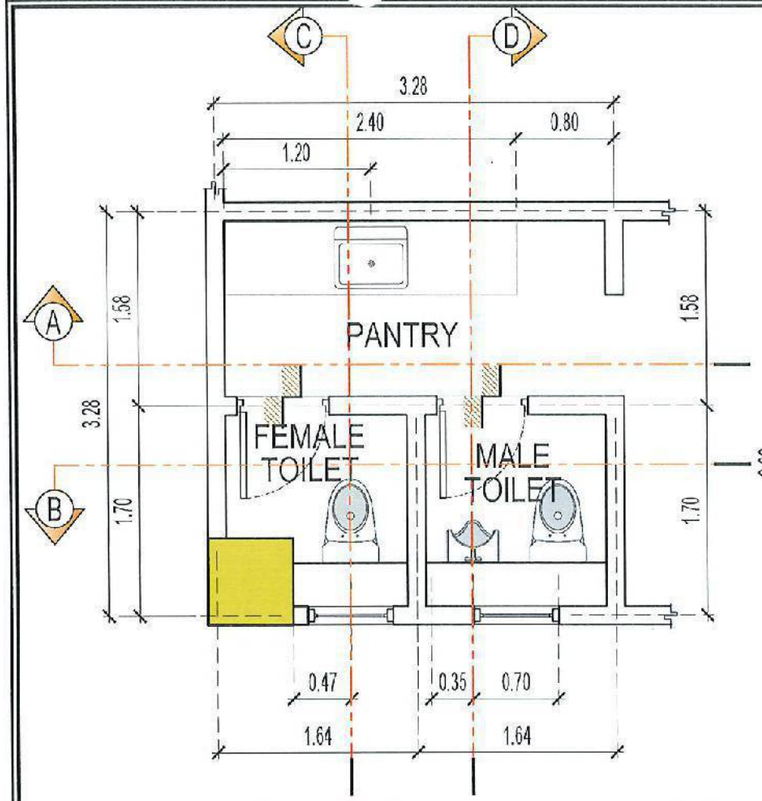


SECTION THRU - D

SCALE 1:50 M

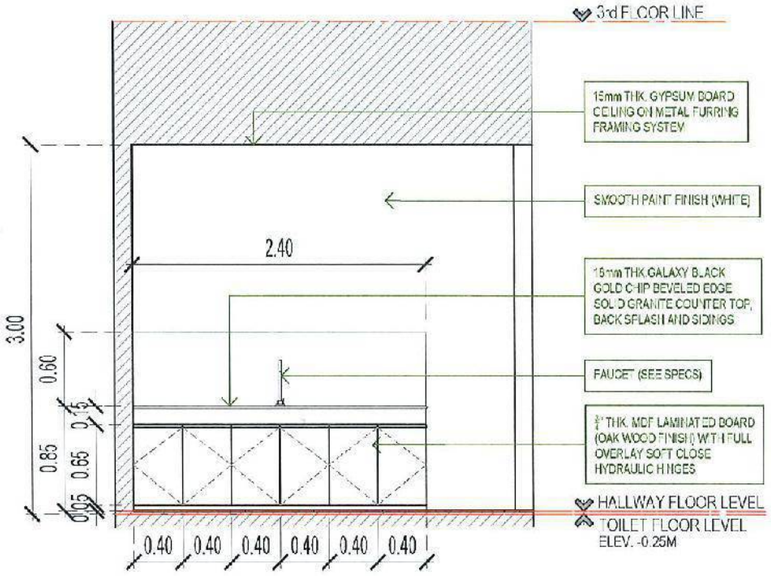
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: AR. MARK ANTHONY BUNZALAN, MEMBER, TODM-PDO	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDO	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-40
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 40/100



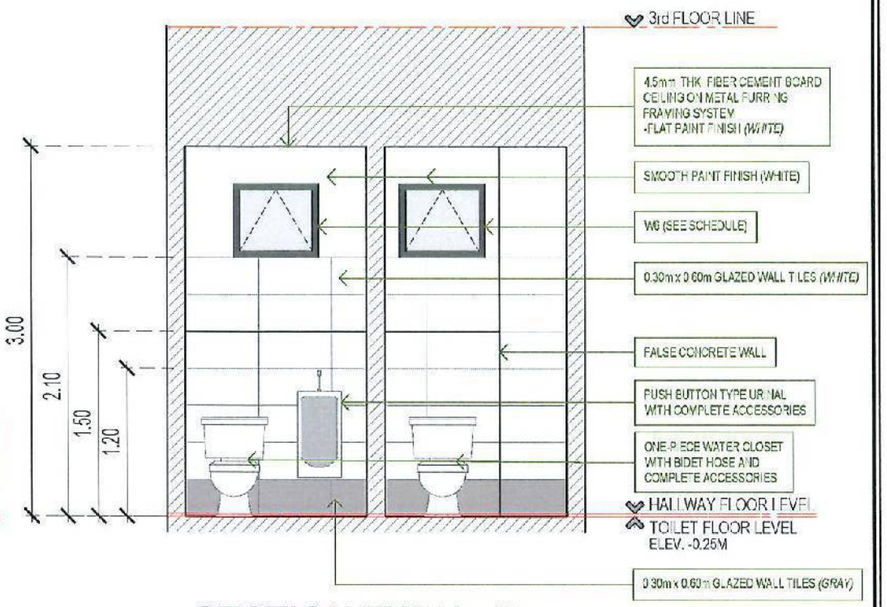
FACULTY OFFICE TOILET BLOW-UP PLAN

SCALE 1:50 M



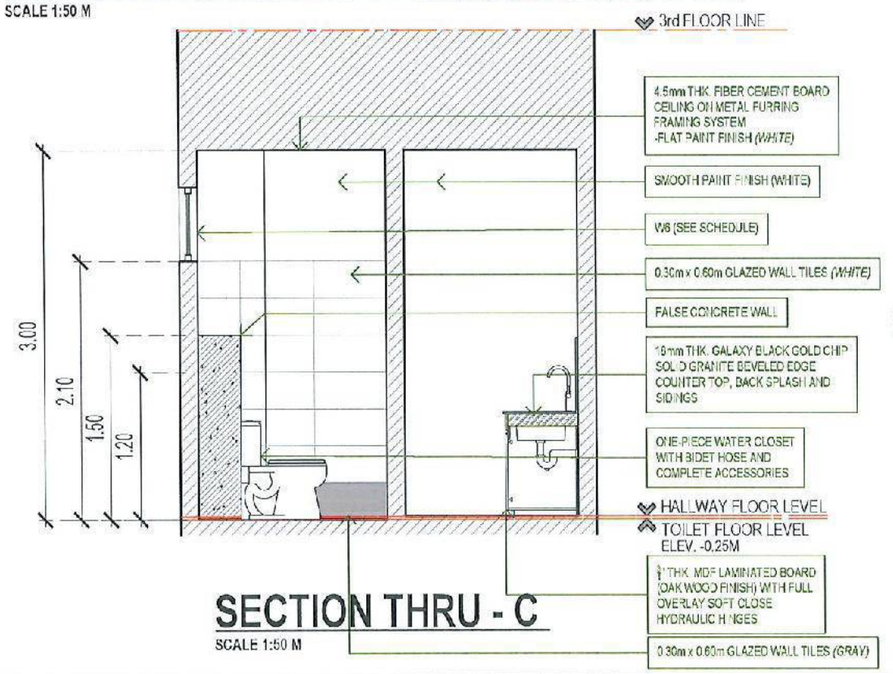
SECTION THRU - A

SCALE 1:50 M



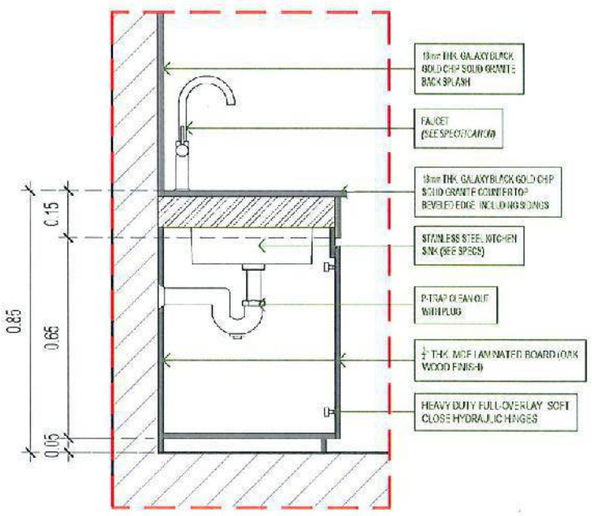
SECTION THRU - B

SCALE 1:50 M



SECTION THRU - C

SCALE 1:50 M



COUNTER TOP DETAILS

SCALE 1:20 M

SECTION THRU - D

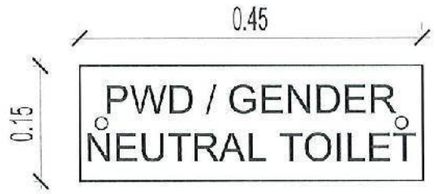
SCALE 1:50 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. MARK ANTHONY L. PUNZALAN ARCHITECT, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-41 PAGE NO: 41/100

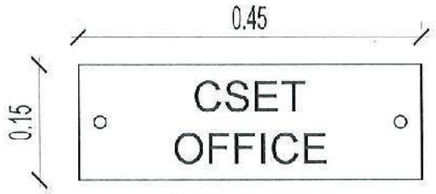
GROUND FLOOR ROOM SIGNAGES		
1	CSET OFFICE	2 SET
2	DIRECTOR'S OFFICE	1 SET
3	CONFERENCE ROOM	1 SET
4	BREAST FEEDING ROOM	1 SET
5	PWD / GENDER NEUTRAL TOILET	1 SET
6	TOILETS	1 SET
7	PIPE CHASE	1 SET
8	ELECTRICAL ROOM	1 SET
9	PUMP ROOM	1 SET
10	FLOW CONTROL VALVE ASSEMBLY	1 SET
11	FABRICATION AREA	1 SET
12	TOOLS STORAGE	1 SET

SECOND FLOOR ROOM SIGNAGES		
1	ROOM 201	1 SET
2	ROOM 202	1 SET
3	ROOM 203	1 SET
4	ROOM 204	1 SET
5	ROOM 205	1 SET
6	FACULTY ROOM	1 SET
7	FLOW CONTROL VALVE ASSEMBLY	1 SET
8	ELECTRICAL ROOM	1 SET
9	PWD / GENDER NEUTRAL TOILET	1 SET
10	TOILETS	1 SET
11	PIPE CHASE	1 SET

THIRD FLOOR ROOM SIGNAGES		
1	ROOM 301	1 SET
2	ROOM 302	1 SET
3	ROOM 303	1 SET
4	ROOM 304	1 SET
5	ROOM 305	1 SET
6	COMPUTER LABORATORY	1 SET
7	FLOW CONTROL VALVE ASSEMBLY	1 SET
8	ELECTRICAL ROOM	1 SET
9	PWD / GENDER NEUTRAL TOILET	1 SET
10	TOILETS	1 SET
11	PIPE CHASE	1 SET



(PWD / GENDER NEUTRAL TOILET)



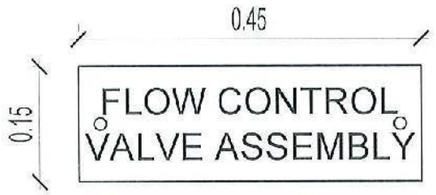
(CSET OFFICE)



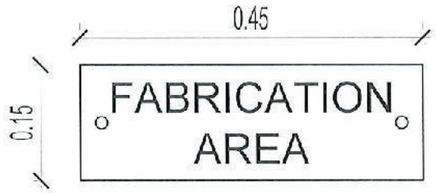
(ROOM 201)



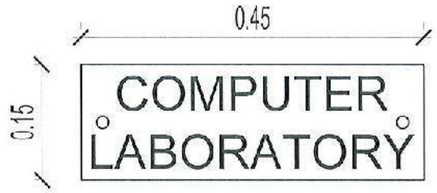
(ROOM 301)



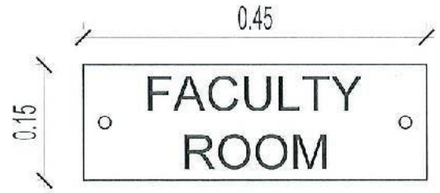
(FLOW CONTROL VALVE ASSEMBLY)



(FABRICATION AREA)



(COMPUTER LABORATORY)



(FACULTY ROOM)

SIGNAGE SPECIFICATION:
PROPORTIONED LETTERING ON 3mm thk.CLEAR ACRYLIC GLASS
WITH 2pcs. 8mmx17mm ACRYLIC
GLASS FIXING BOLT SCREWS

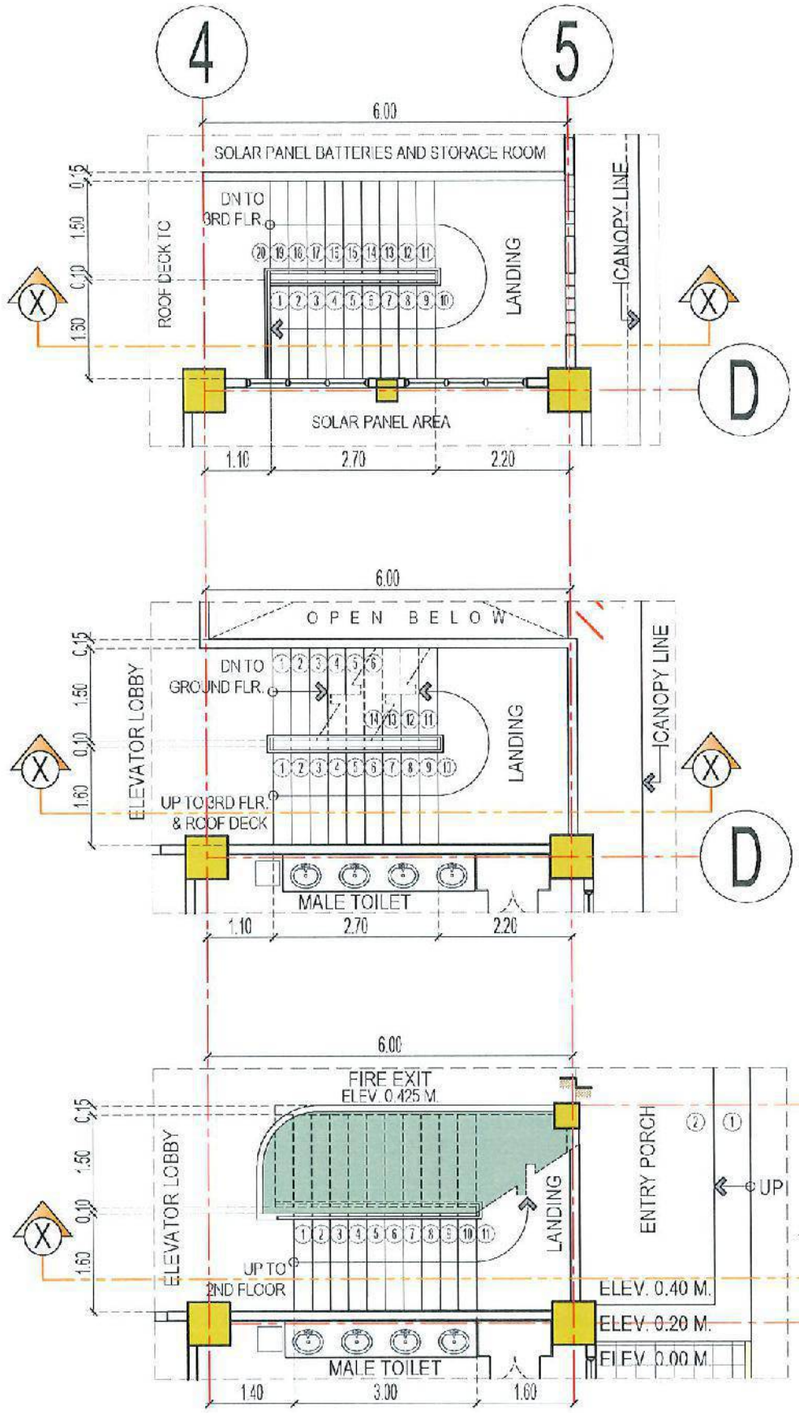
NOTE: THE FONT STYLE, FONT SIZE, TEXT CONTENT
SHALL BE FOR APPROVAL.

TYPICAL SIGNAGE DETAIL

SCALE 1:8M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, PHilippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	AR. JHON CARLO V. MAMACLAY DRAFTSMAN, OFDM-PDU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. LEO P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT	AS SHOWN	A-42
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 42/100



ROOF DECK PLAN

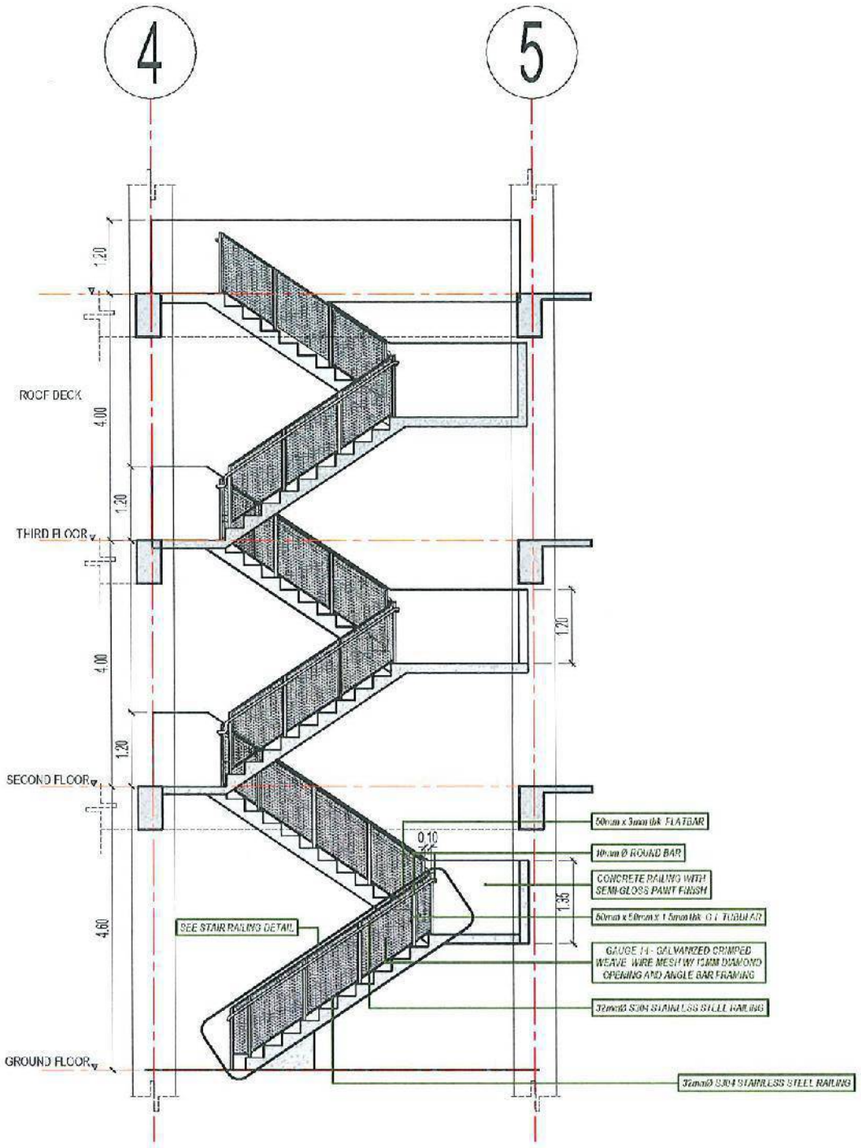
SCALE 1:100 M

TYP. 2ND - ROOF DECK PLAN

SCALE 1:100 M

GROUND - 2ND FLOOR PLAN

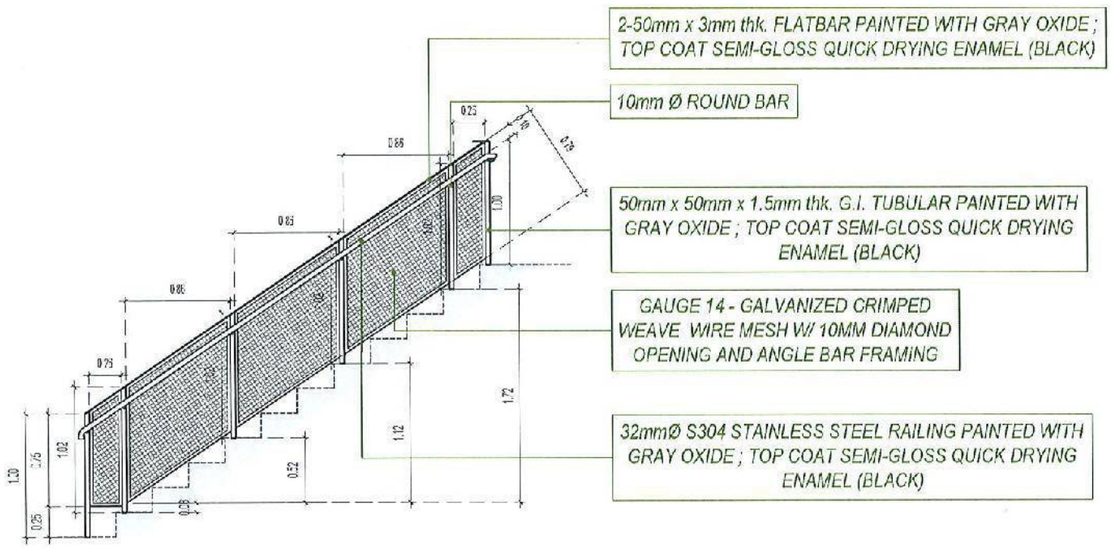
SCALE 1:100 M



STAIRCASE DETAIL

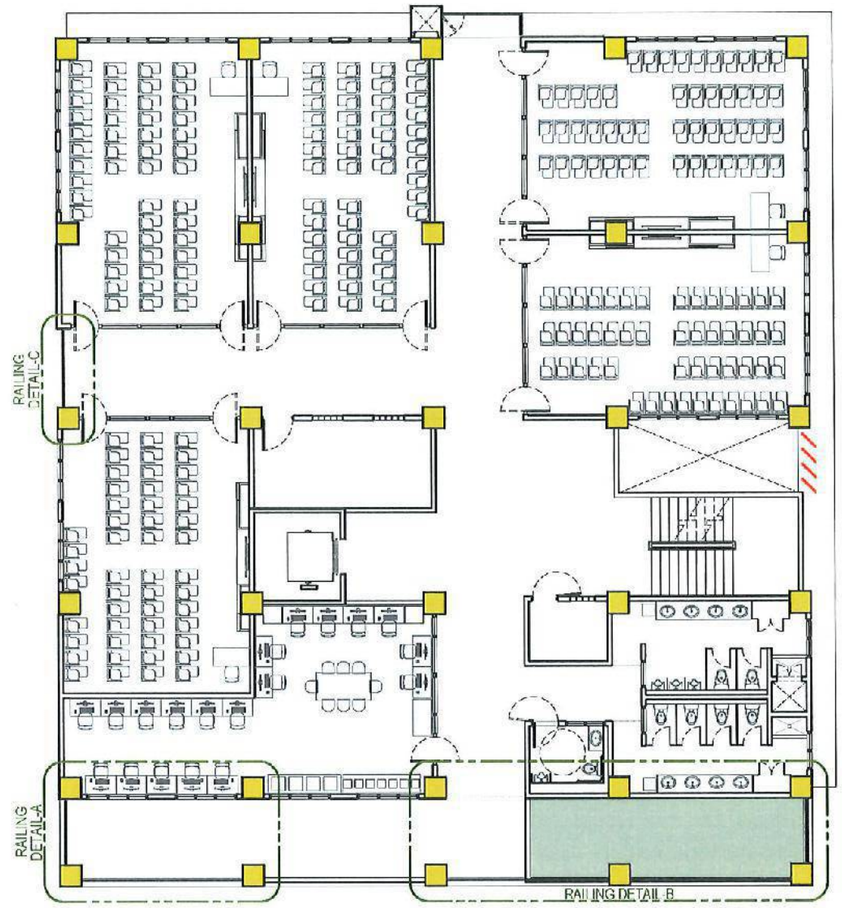
SCALE 1:100 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. PAULINE ANGELA M. MARTINEZ DRAFTSMAN, DHDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, CFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2025	SHEET NO: A-43 PAGE NO: 43/100



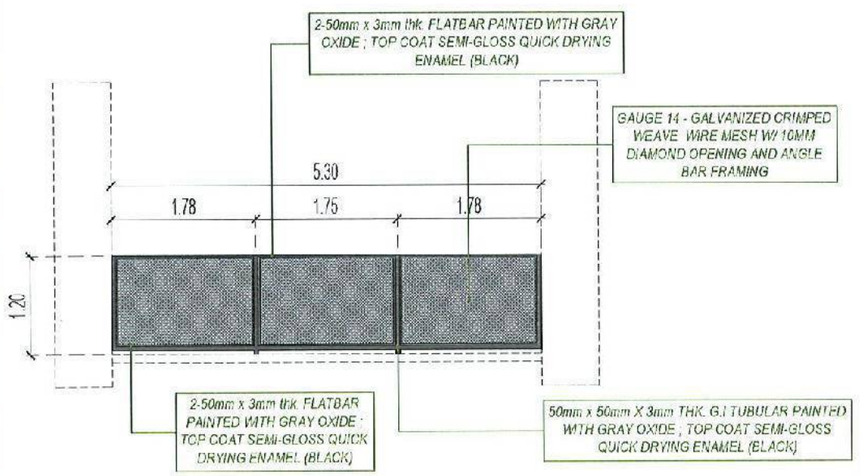
STAIR RAILING DETAIL

SCALE 1:100 M



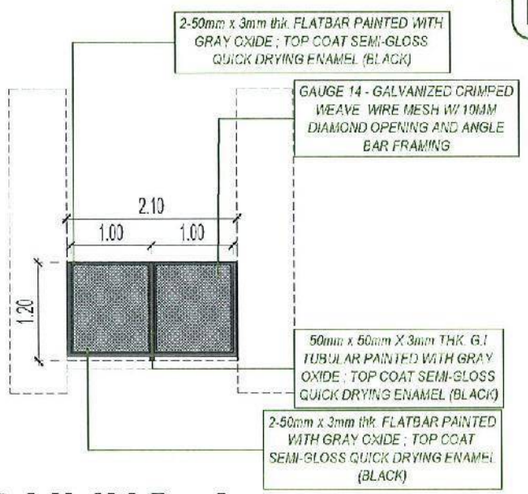
THIRD FLOOR KEY PLAN

SCALE 1:100 M



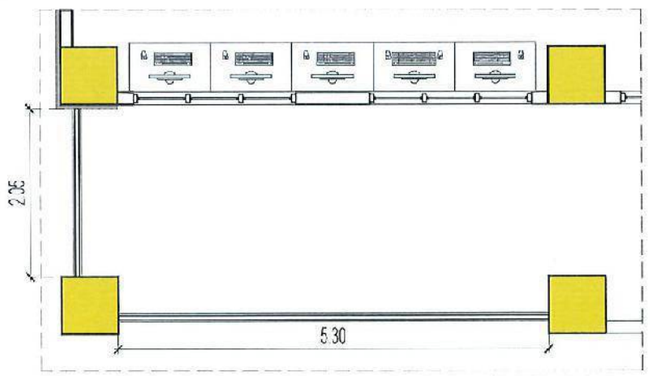
RAILING- A FRONT ELEVATION

SCALE 1:75 M



RAILING- A LEFT ELEVATION

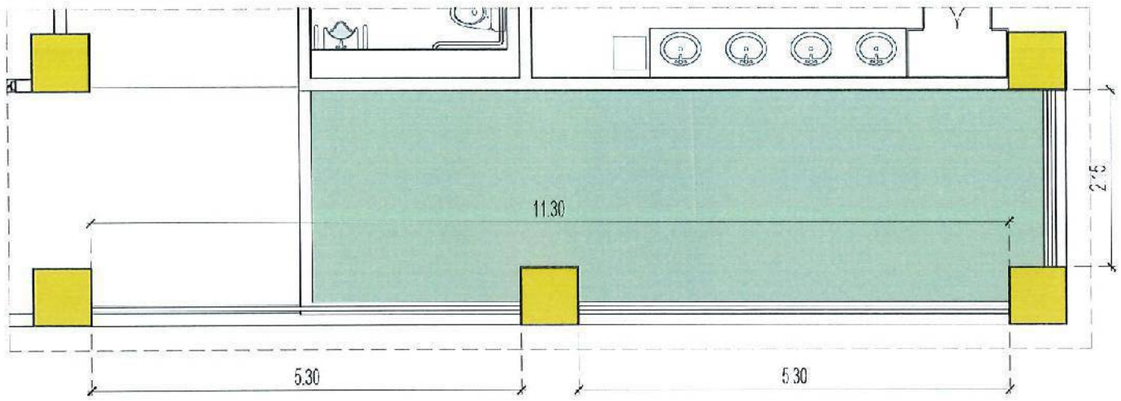
SCALE 1:75 M



RAILING- A PLAN

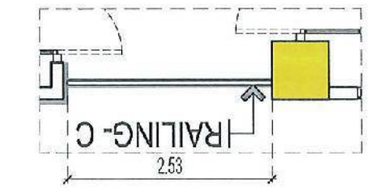
SCALE 1:75 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. PAULINE ANGELA M. MARTINEZ DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, OSCT	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-44 PAGE NO: 44/100



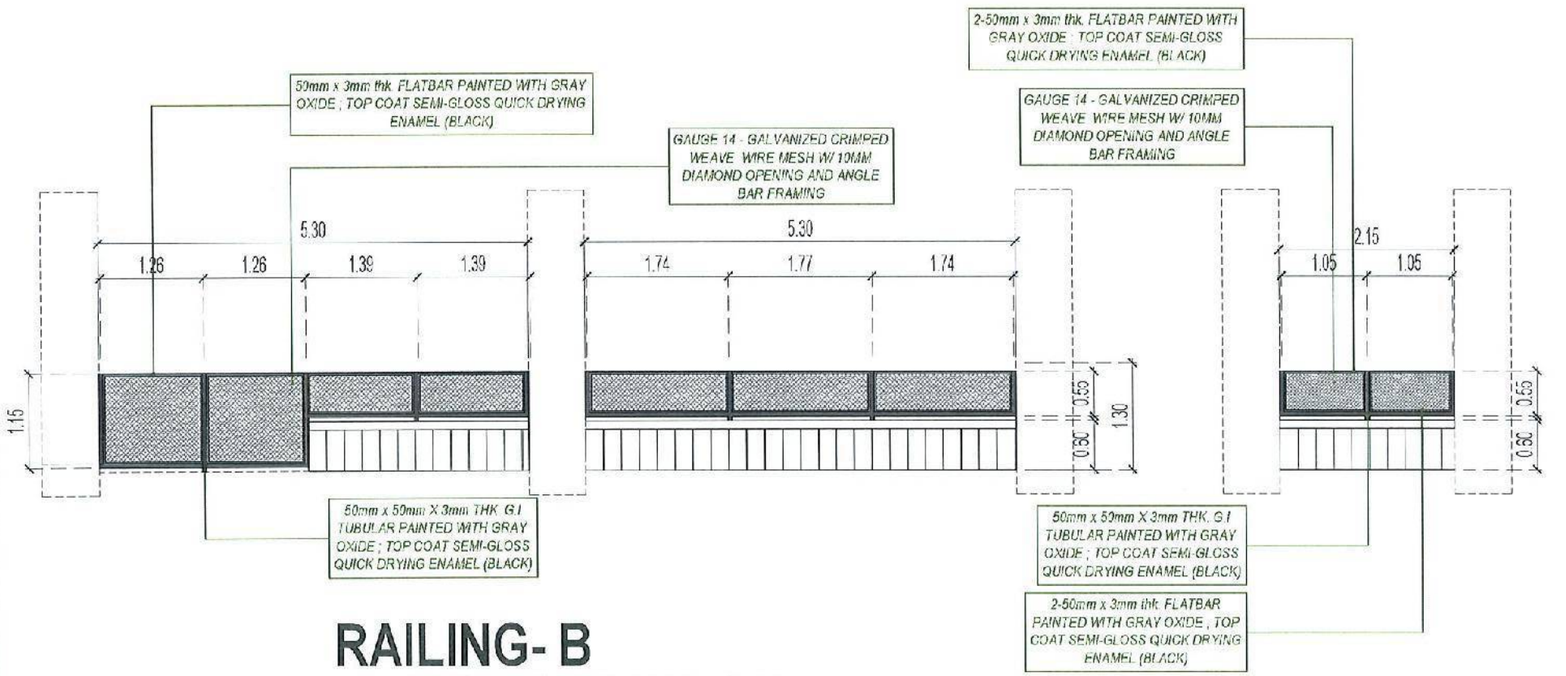
RAILING- B PLAN

SCALE 1:75 M



RAILING- C PLAN

SCALE 1:75 M

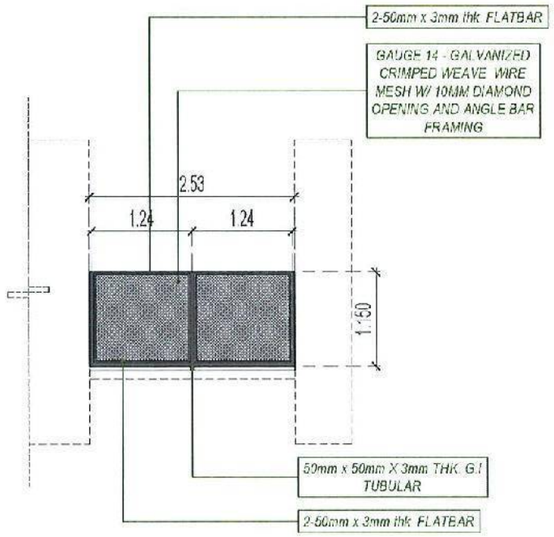


RAILING- B FRONT ELEVATION

SCALE 1:75 M

RAILING- B RIGHT ELEVATION

SCALE 1:75 M

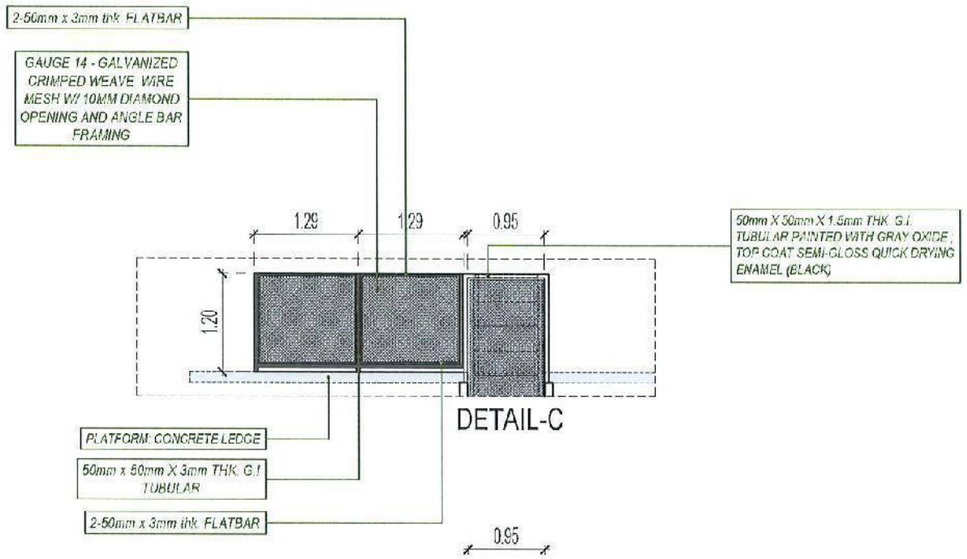


RAILING- C FRONT ELEVATION

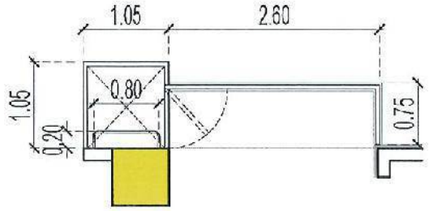
SCALE 1:75 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

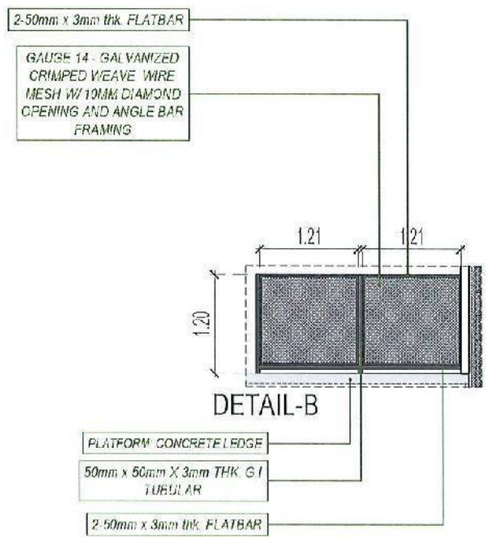
PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	AR. PAULINE ANGELA M. MARTINEZ DRAFTSMAN, DFDM-FDU	AR. CHERRY L. FABIANES HEAD, OFDM-FDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. LEO P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT	AS SHOWN	A-45
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 45/100



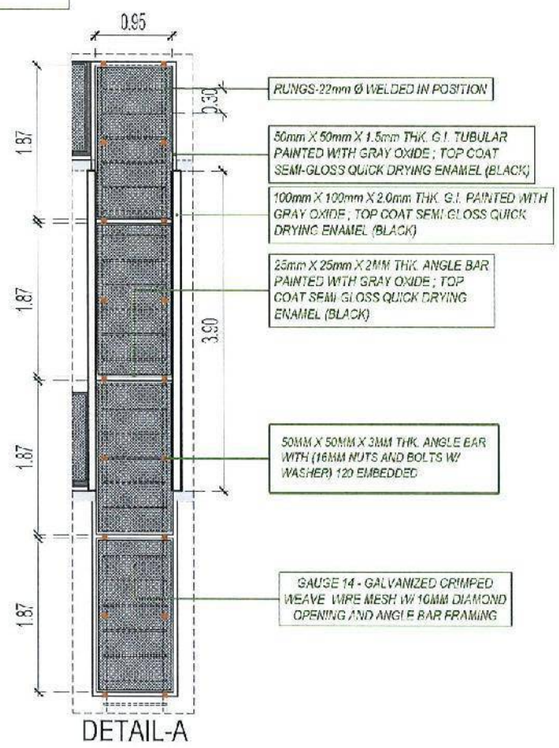
DETAIL-C



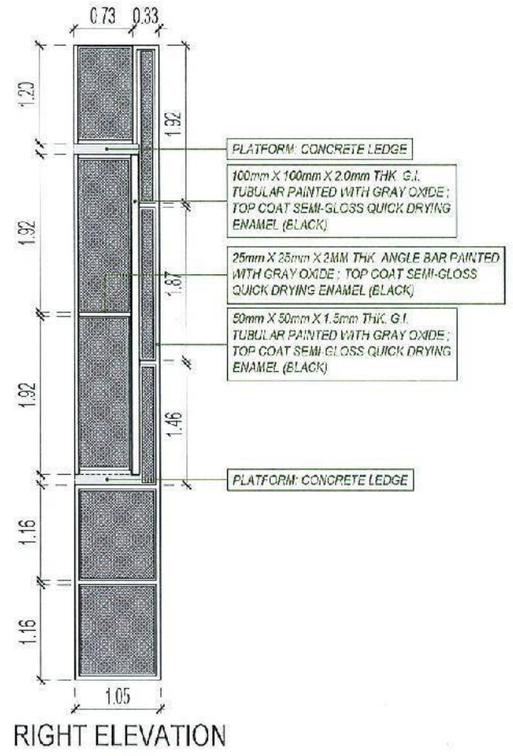
TYPICAL PLAN



DETAIL-B



DETAIL-A

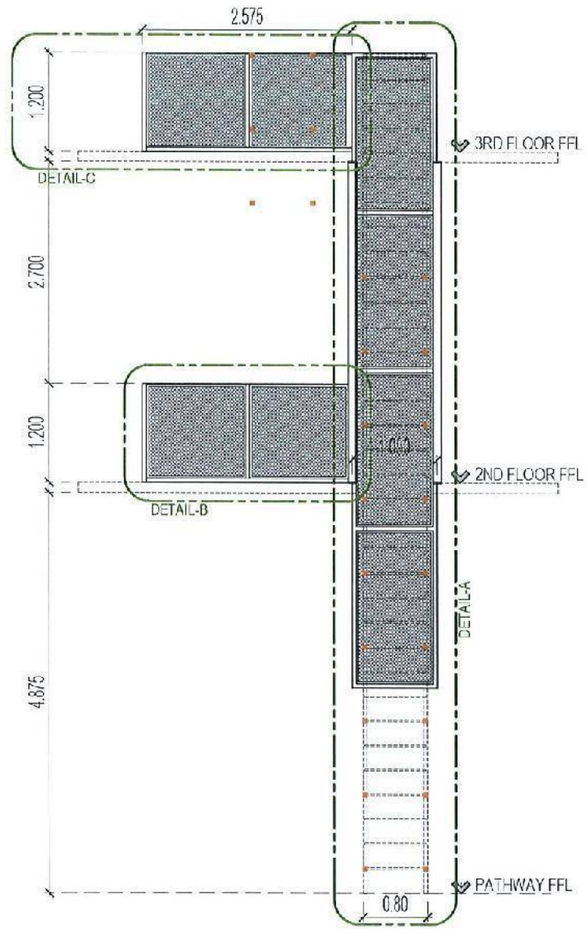


RIGHT ELEVATION

FIRE EXIT LADDER DETAILS

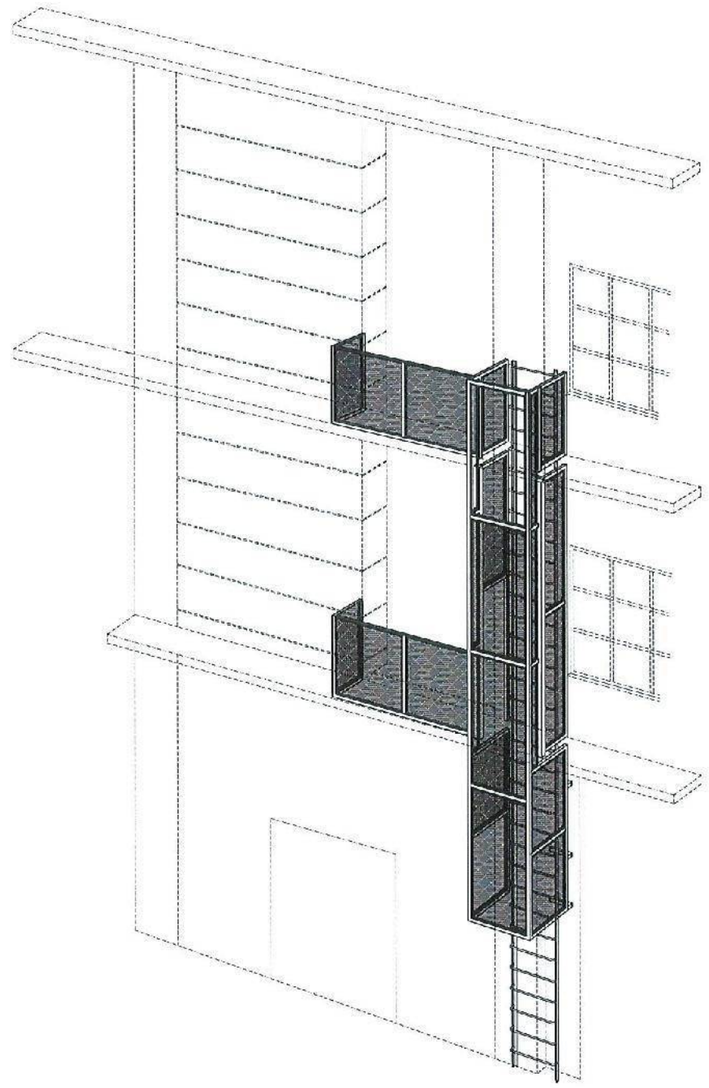
SCALE 1:75 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. PAULINE ANGELA M. MARTINEZ DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: A-46 PAGE NO: 46/100



FIRE EXIT LADDER
FRONT ELEVATION

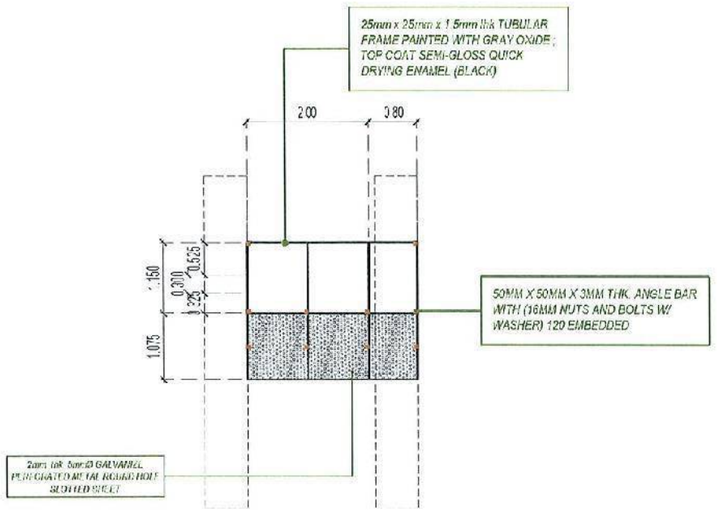
SCALE 1:75 M



FIRE EXIT LADDER
ISOMETRIC VIEW

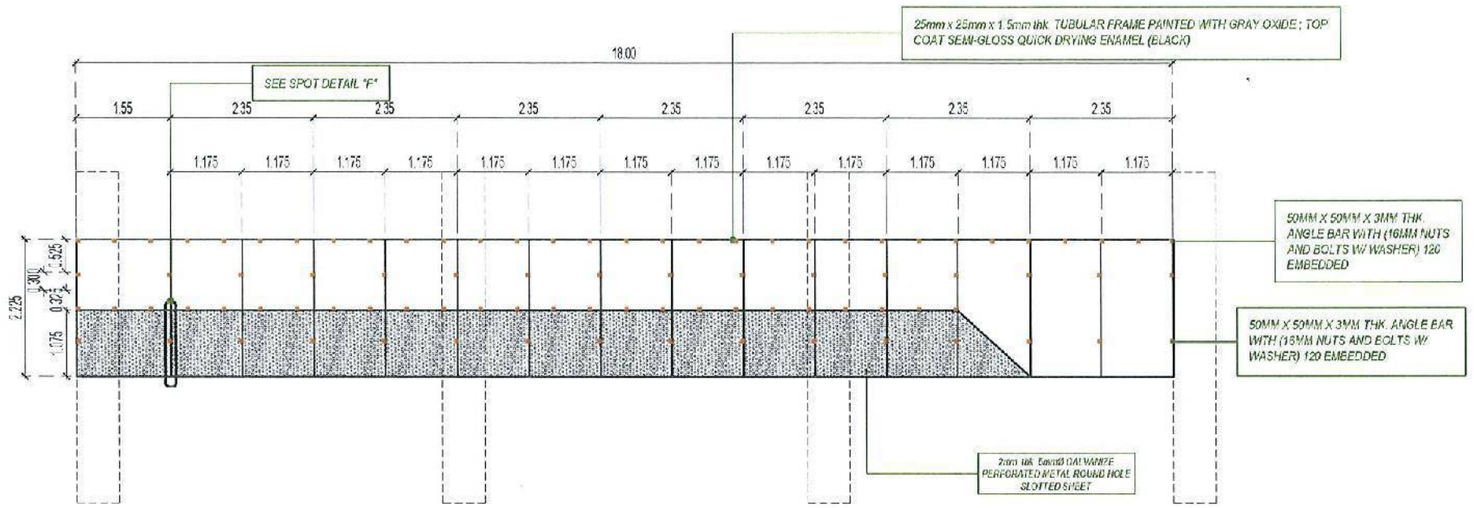
SCALE 1:75 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. PAULINE ANGELA M. MARTINEZ DRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2025	SHEET NO: A-47 PAGE NO: 47/100



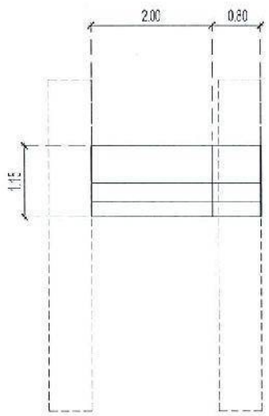
LEFT-SIDE MAIN FRAME DETAILS

SCALE 1:100 M



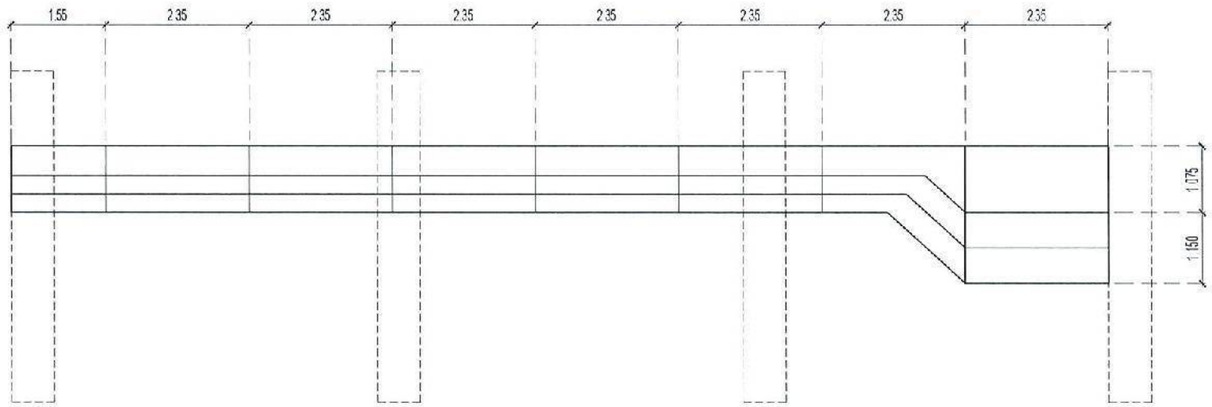
ACP MAIN FRAME DETAILS

SCALE 1:100 M



LEFT-SIDE SUB-FRAME DETAILS

SCALE 1:100 M

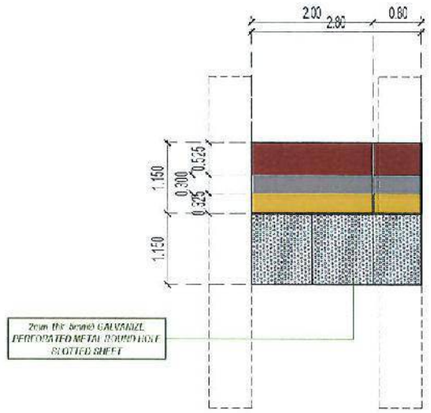


ACP SUB-FRAME DETAILS

SCALE 1:100 M

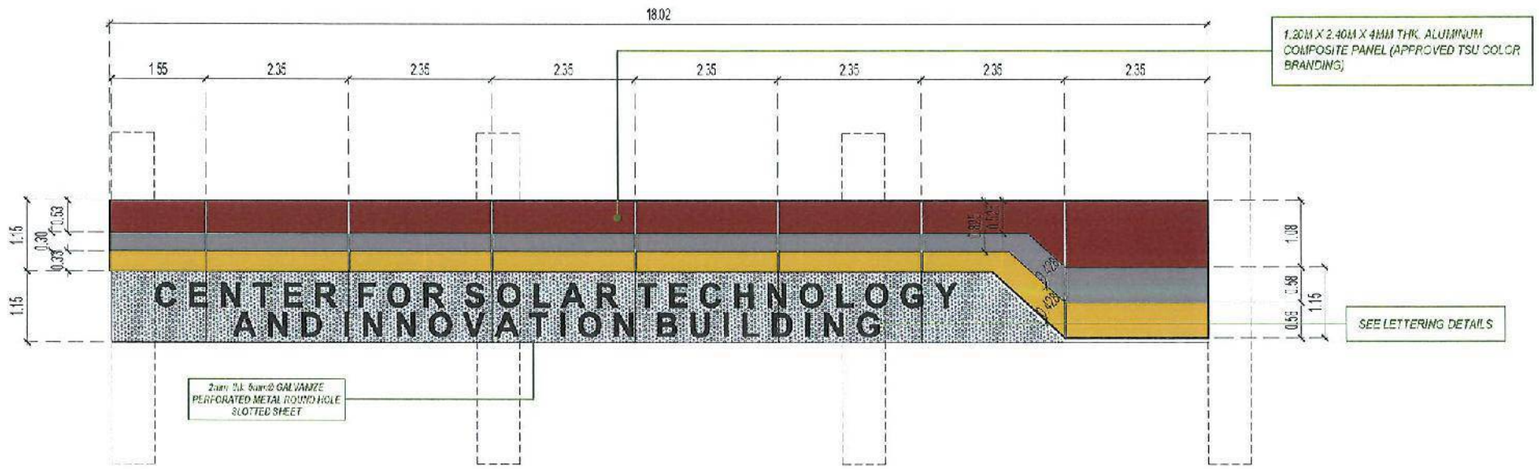
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: AR. CAROLINE ANGELA M. MARTINEZ, CRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-48
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2025	PAGE NO: 48/100



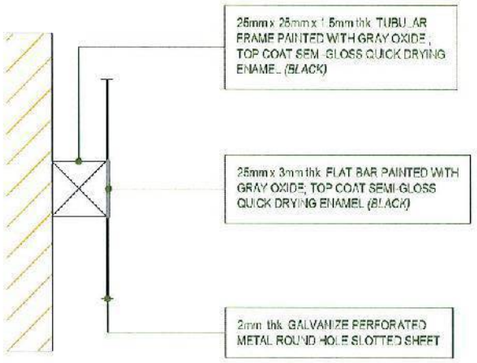
ACP LEFT-SIDE ELEVATION

SCALE 1:100 M



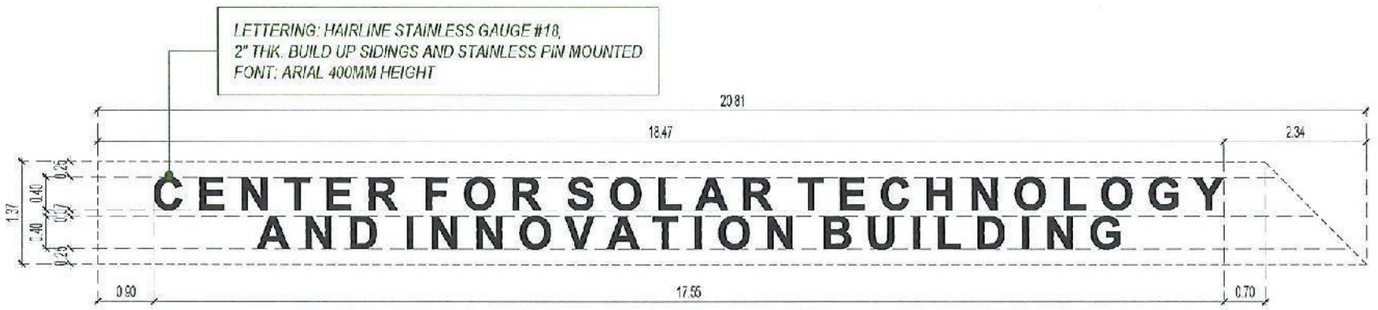
ACP FRONT ELEVATION

SCALE 1:100 M



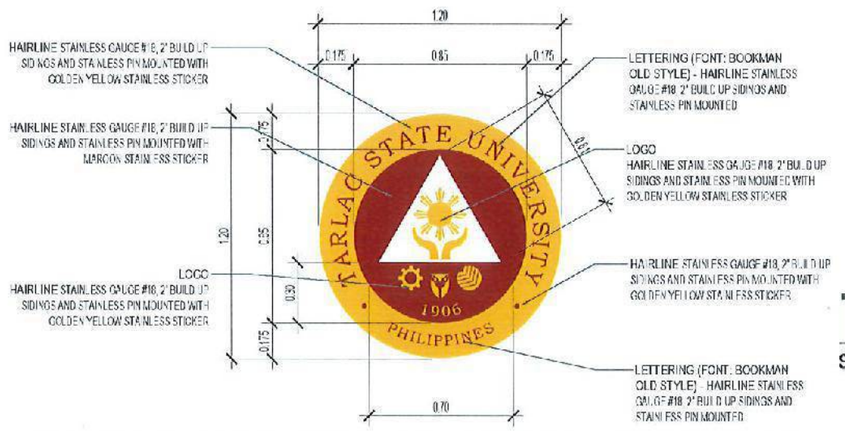
SPOT DETAIL "F"

SCALE: NTS



LETTERING DETAILS

SCALE 1:75 M

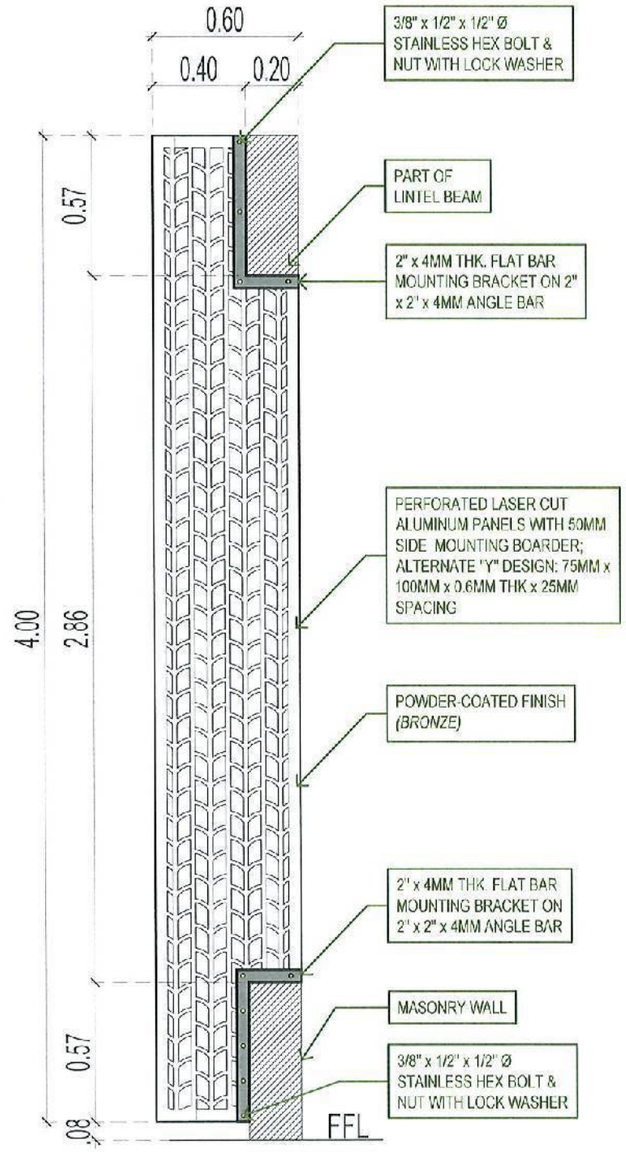


TSU LOGO DETAILS

SCALE 1:30 M

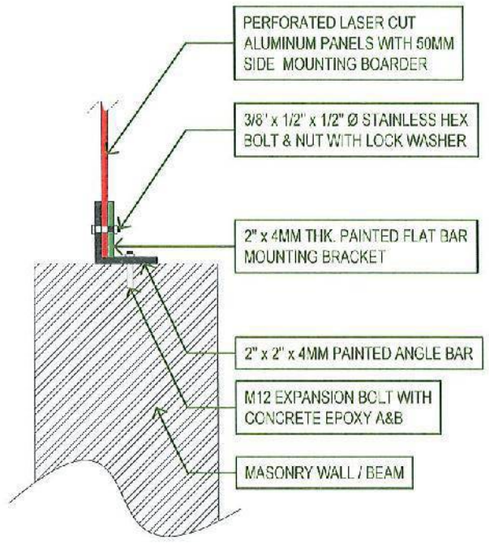
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: AR. PAULINE ANGELA M. MARTINEZ, CRAFTSMAN, OFDM-PDU	CHECKED BY: AR. CHERRYL T. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-49
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 49/100



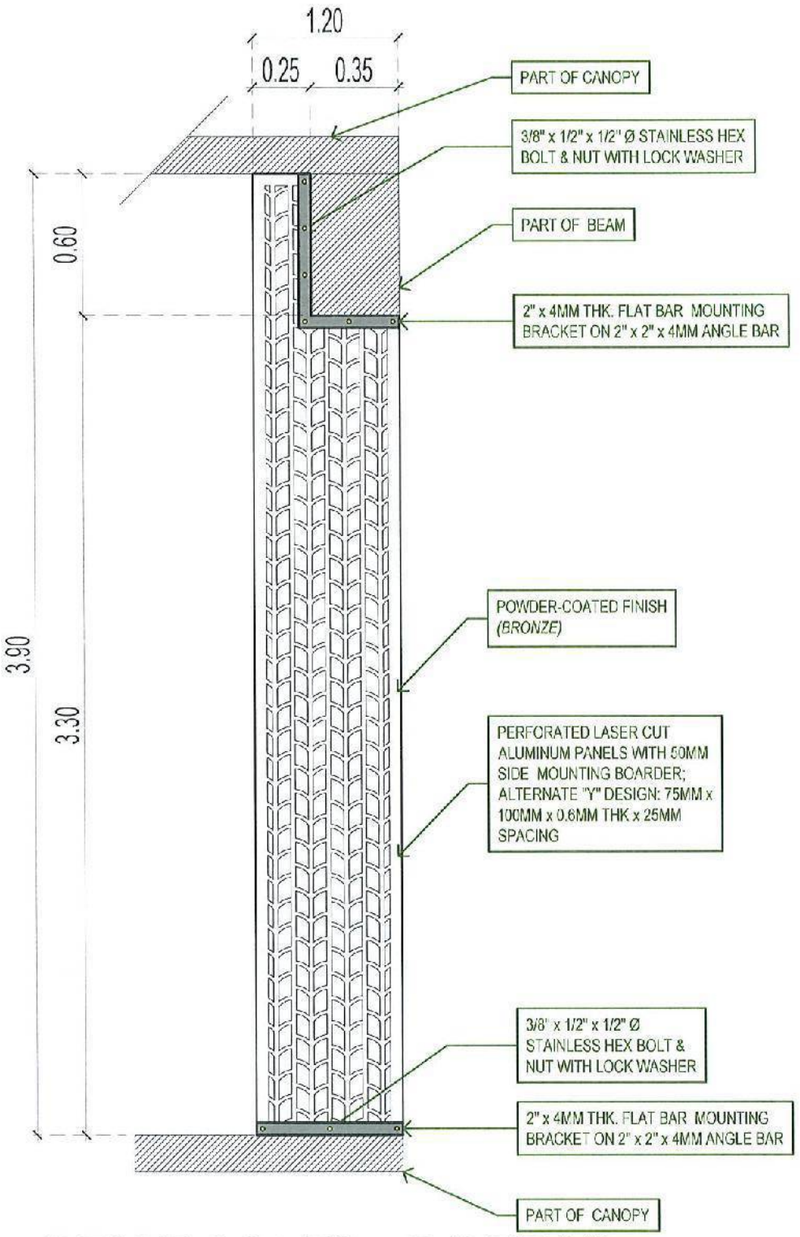
BRISE SOLEIL- A DETAIL

SCALE 1:25 M



TYPICAL MOUNTING DETAIL

SCALE 1:5 M



BRISE SOLEIL- B DETAIL

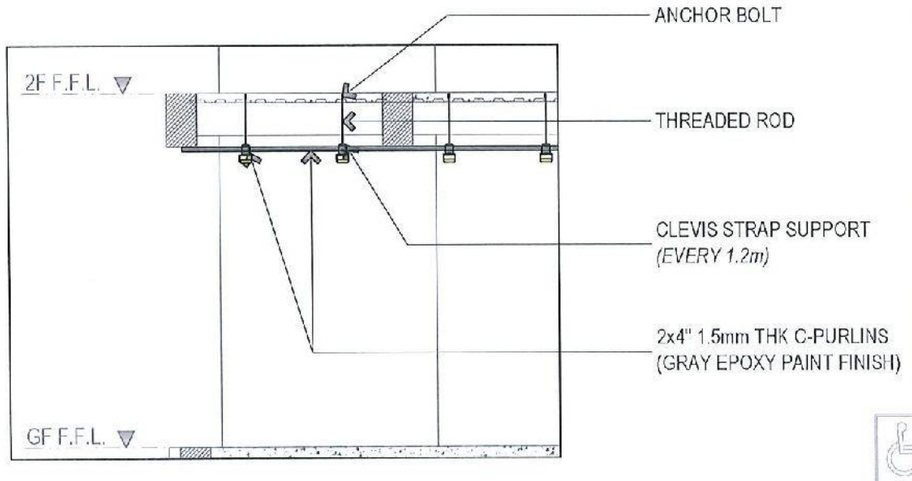
SCALE 1:25 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	WENCIE A. MANEBOG, DRAFTSMAN, OFDM-FDD	AR. CHERRY L. FABIANES, HEAD, OFDM-PDD	AR. ARLEN M. GUIEB, DIRECTOR, OFDM	DR. LEO P. PIAO, DIRECTOR, CSET	DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA, PRESIDENT	AS SHOWN	A-50
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 50/100

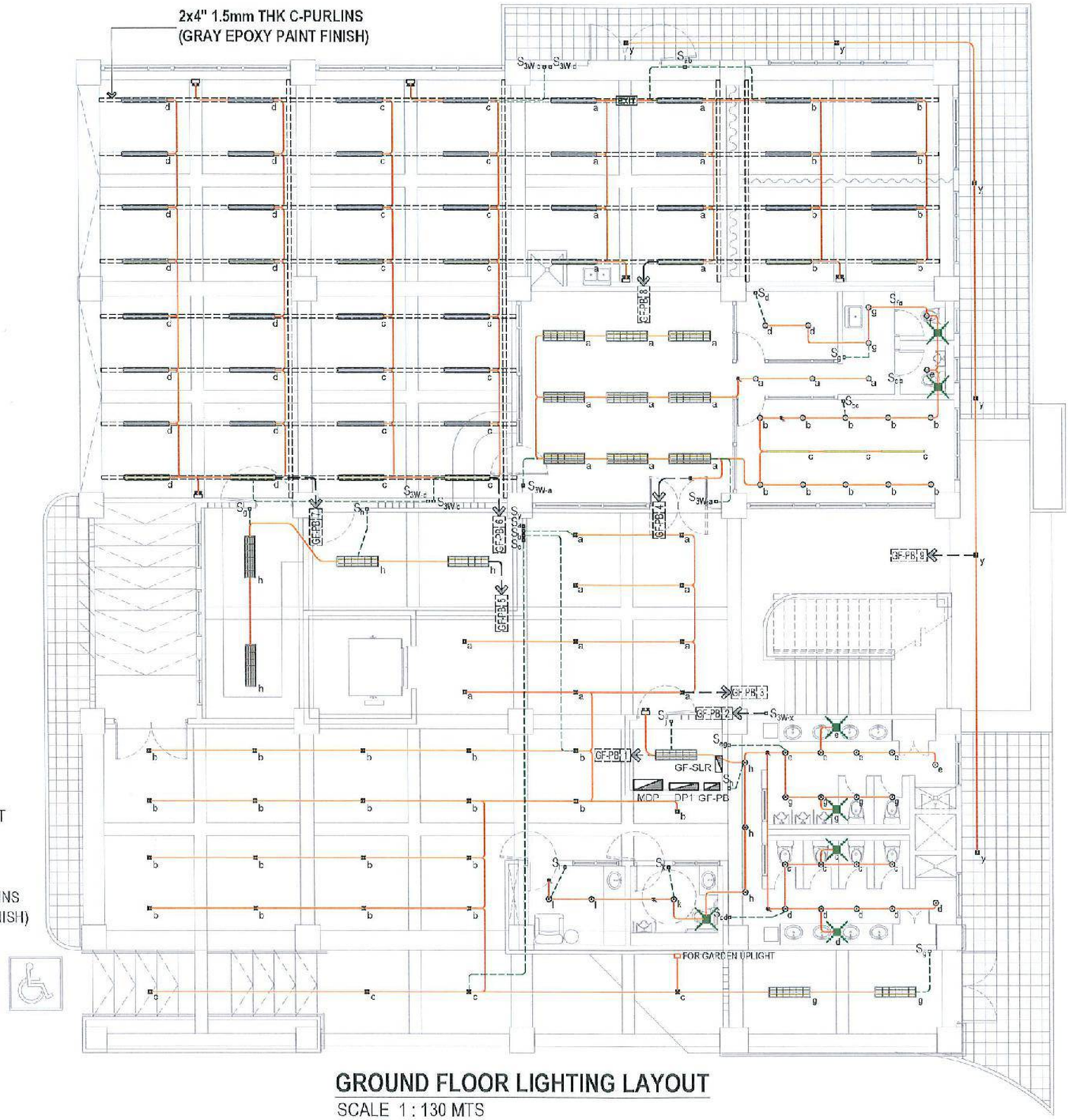
LEGENDS

	2-18W T8 LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	1-18W LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A SURFACE MOUNTED FROSTED DIFFUSER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A WEATHERPROOF HOUSING (DAYLIGHT)
	4" ROUND RECESSED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
	4" SQUARE SURFACE MOUNTED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
E_n	CEILING MOUNTED EMERGENCY LIGHT
	WALL MOUNTED EMERGENCY LIGHT
EXIT	3W BACK TO BACK ILLUMINATED EXIT SIGN
	8" CEILING MOUNTED EXHAUST FAN *(FOR PWD & SMALL CRs)*
	10" CEILING MOUNTED EXHAUST FAN *(FOR MAIN CRs)*
S_a	ONE-GANG WIDE SERIES SWITCH
S_{ab}	TWO-GANG WIDE SERIES SWITCH
S_{abc}	THREE-GANG WIDE SERIES SWITCH
S_{3W-a}	ONE GANG 3-WAY WIDE SERIES SWITCH
S_{4W-a}	ONE-GANG 4-WAY WIDE SERIES SWITCH
1 GF-PB	BRANCH CIRCUIT NUMBER; PANELBOARD NAME & LOCATION



LIGHTING FIXTURE MOUNTING DETAIL

NTS



GROUND FLOOR LIGHTING LAYOUT

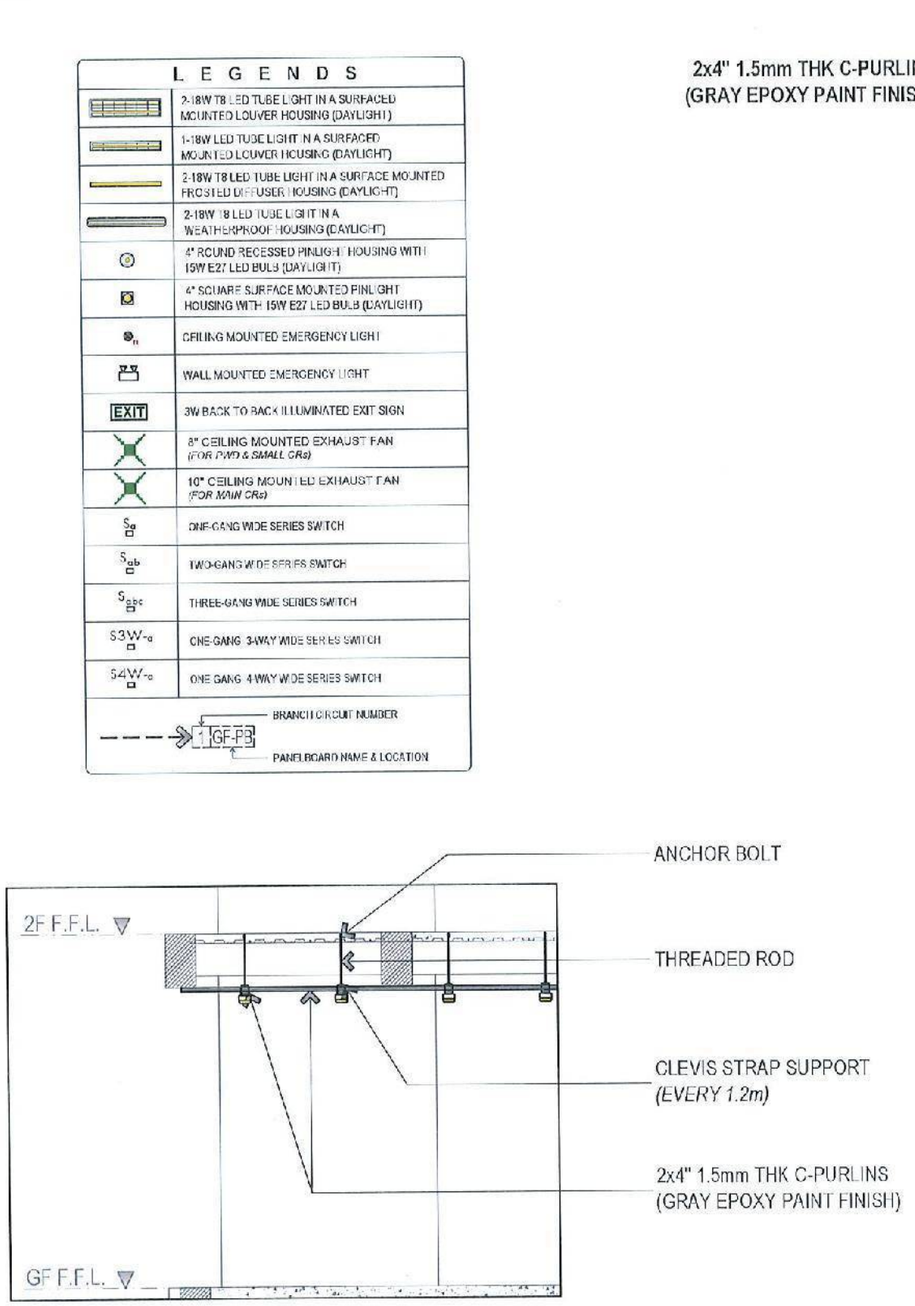
SCALE 1 : 130 MTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. MARK JOMELLE C. NAVIDAD, ELECTRICAL ENGINEER, OFDM-PDO	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDO	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2020	SHEET NO: E-01 PAGE NO: 51/100

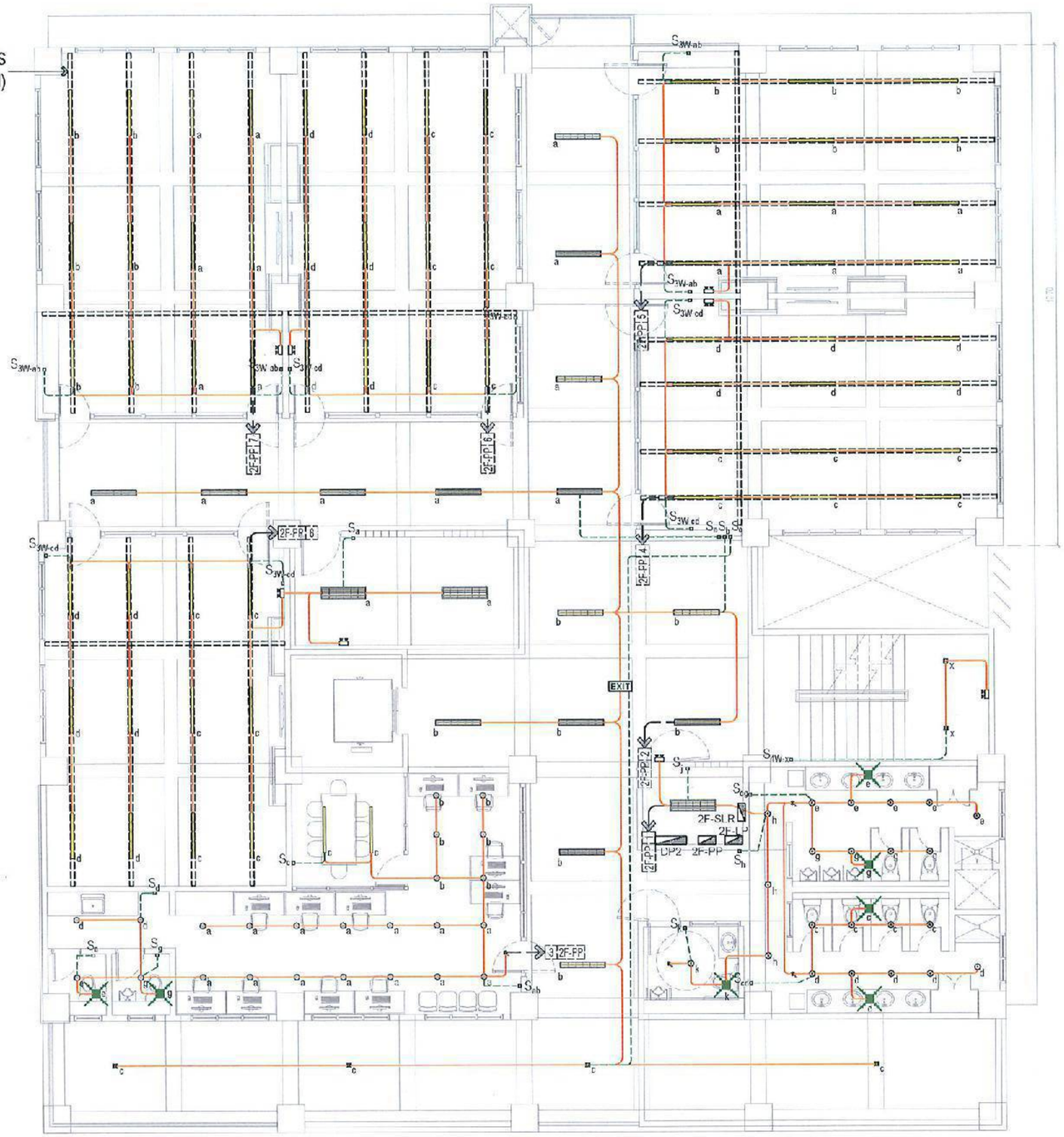
LEGENDS

	2-18W T8 LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	1-18W LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A SURFACE MOUNTED FROSTED DIFFUSER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A WEATHERPROOF HOUSING (DAYLIGHT)
	4" ROUND RECESSED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
	4" SQUARE SURFACE MOUNTED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
$\mathbb{E}_n$	CEILING MOUNTED EMERGENCY LIGHT
	WALL MOUNTED EMERGENCY LIGHT
EXIT	3W BACK TO BACK ILLUMINATED EXIT SIGN
	8" CEILING MOUNTED EXHAUST FAN *(FOR PWD & SMALL CRs)*
	10" CEILING MOUNTED EXHAUST FAN *(FOR MAIN CRs)*
S_a	ONE-GANG WIDE SERIES SWITCH
S_{ab}	TWO-GANG WIDE SERIES SWITCH
S_{abc}	THREE-GANG WIDE SERIES SWITCH
S3W-a	ONE-GANG 3-WAY WIDE SERIES SWITCH
S4W-a	ONE GANG 4-WAY WIDE SERIES SWITCH
	BRANCH CIRCUIT NUMBER — 1 GF-PB — PANELBOARD NAME & LOCATION



LIGHTING FIXTURE MOUNTING DETAIL

NTS



SECOND FLOOR LIGHTING LAYOUT

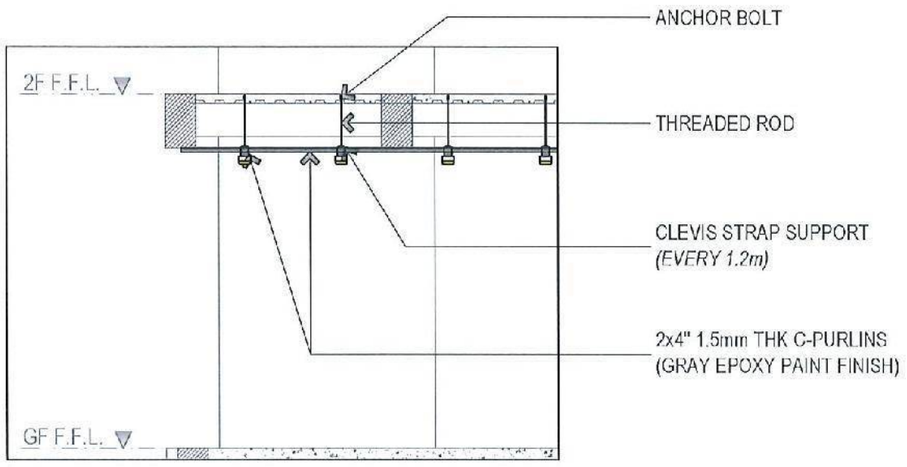
SCALE 1 : 130 MTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2360

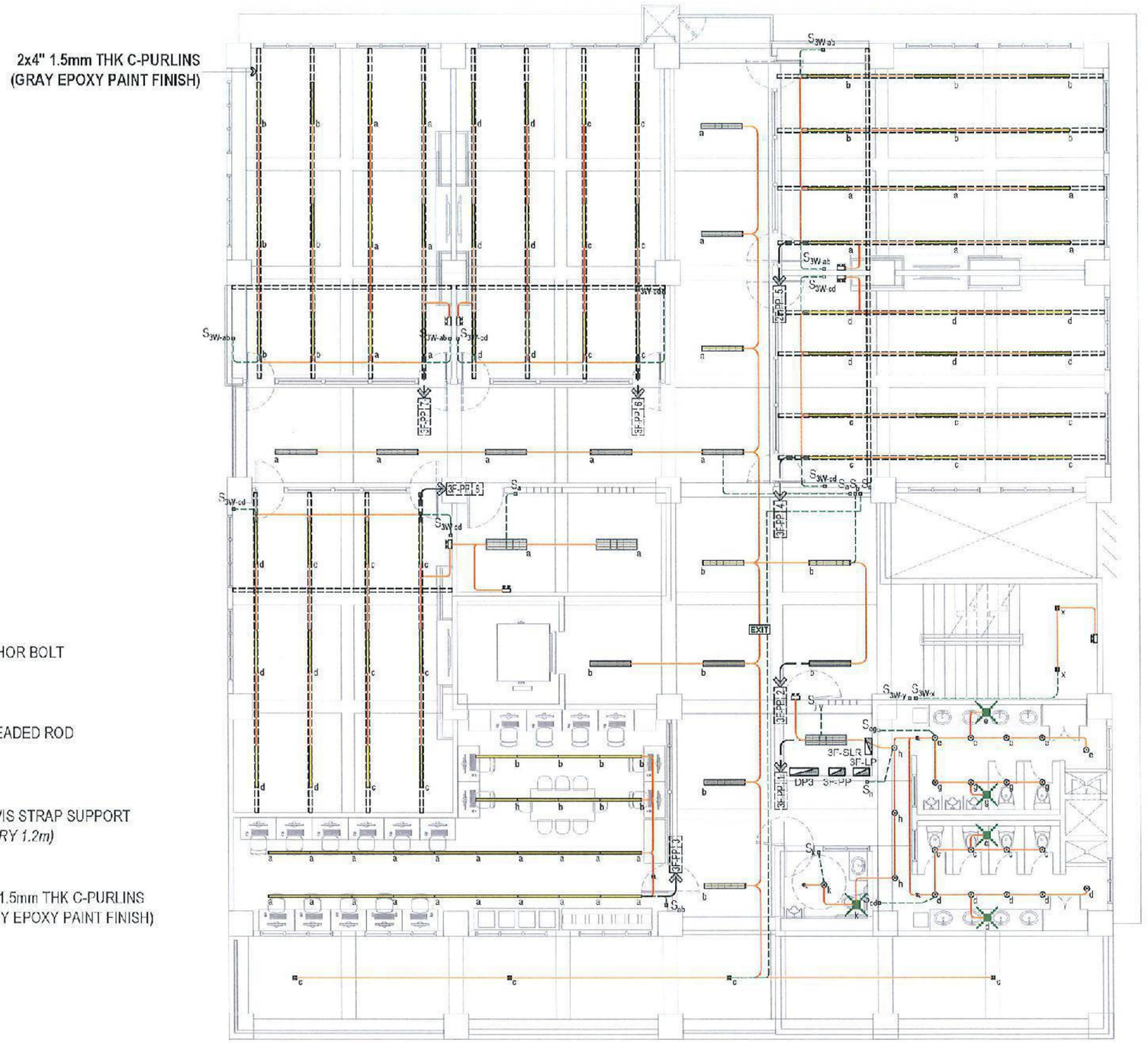
PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE	RECOMMENDING APPROVAL:	APPROVED	SHEET CONTENTS: AS SHOWN	SHEET NO: E-02
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	ENGR. MARK JOMELLE C. NATIVIDAD, ELECTRICAL ENGINEER, OFDM-PDU	AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	AR. ARLEN M. GUIEB, DIRECTOR, OFDM	DR. LEO P. PIAO, DIRECTOR, CSET	DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA, PRESIDENT	DATE: 2026	PAGE NO: 52/100

LEGENDS

	2-18W T8 LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	1-18W LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A SURFACE MOUNTED FROSTED DIFFUSER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A WEATHERPROOF HOUSING (DAYLIGHT)
	4" ROUND RECESSED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
	4" SQUARE SURFACE MOUNTED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
	CEILING MOUNTED EMERGENCY LIGHT
	WALL MOUNTED EMERGENCY LIGHT
EXIT	3W BACK TO BACK ILLUMINATED EXIT SIGN
	8" CEILING MOUNTED EXHAUST FAN *(FOR FWD & SMALL CRs)*
	10" CEILING MOUNTED EXHAUST FAN *(FOR MAIN CRs)*
S_a	ONE-GANG WIDE SERIES SWITCH
S_{ab}	TWO-GANG WIDE SERIES SWITCH
S_{abc}	THREE GANG WIDE SERIES SWITCH
S3W-a	ONE-GANG 3-WAY WIDE SERIES SWITCH
S4W-a	ONE-GANG 4-WAY WIDE SERIES SWITCH
1 3F-PB	BRANCH CIRCUIT NUMBER PANELBOARD NAME & LOCATION



LIGHTING FIXTURE MOUNTING DETAIL
N T S



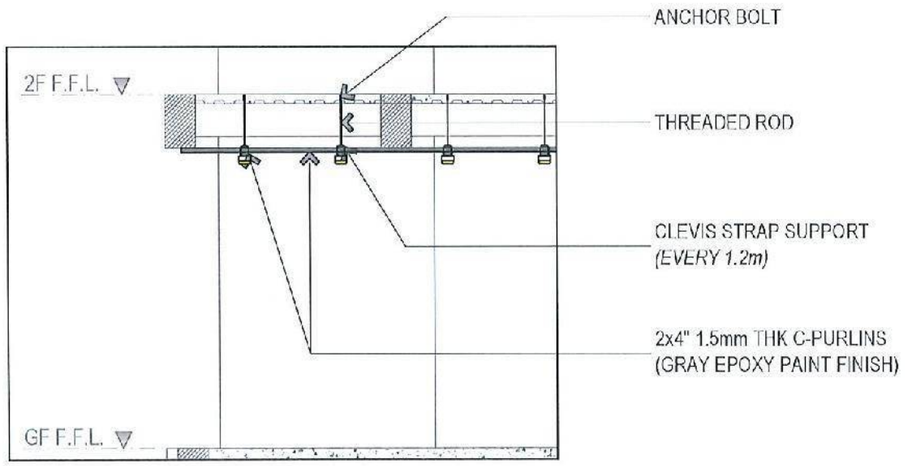
THIRD FLOOR LIGHTING LAYOUT
SCALE 1 : 130 MTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD, ELECTRICAL ENGINEER, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: E-03 PAGE NO: 53/100

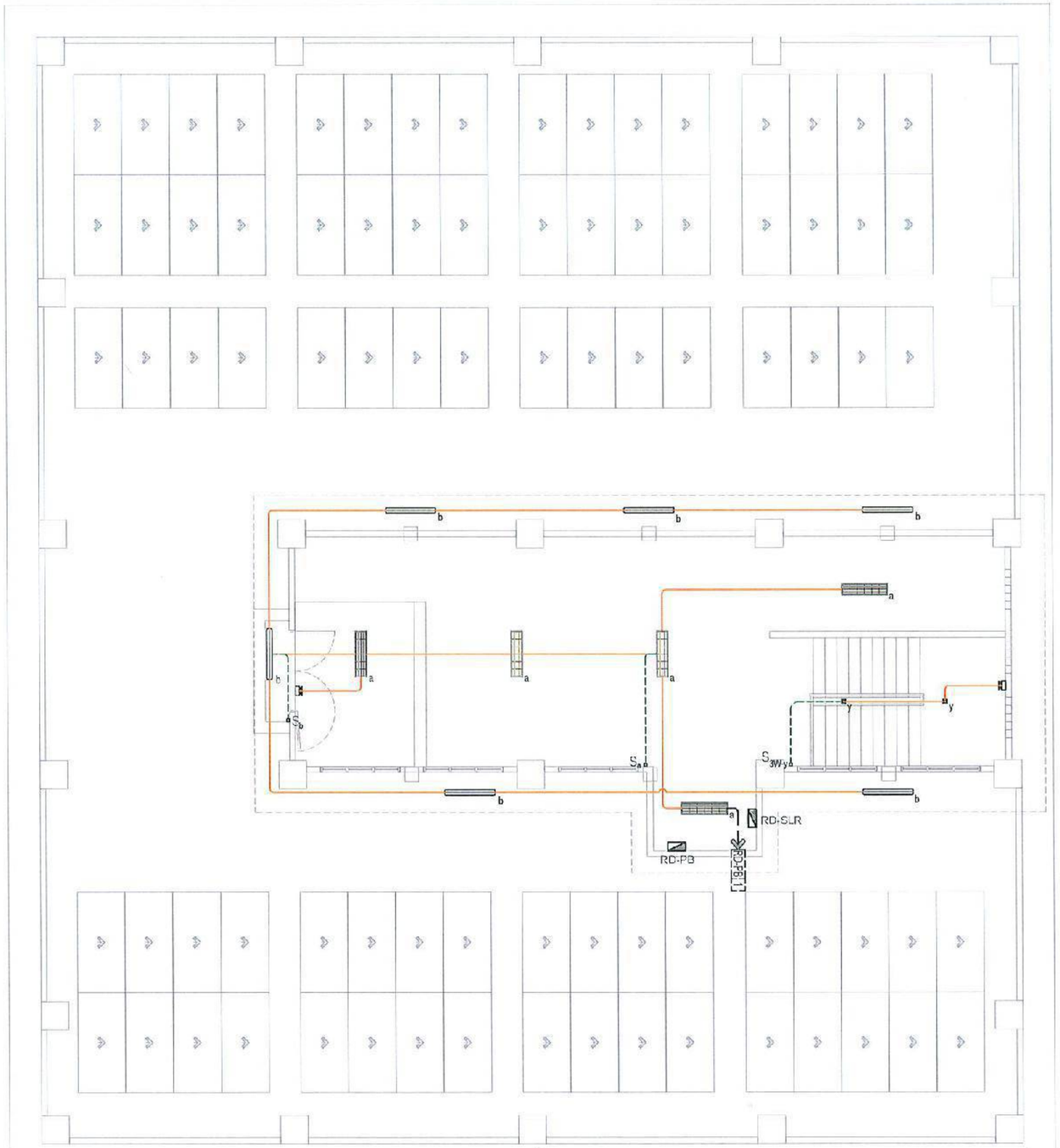
LEGENDS

	2-18W T8 LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	1-18W LED TUBE LIGHT IN A SURFACED MOUNTED LOUVER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A SURFACE MOUNTED FROSTED DIFFUSER HOUSING (DAYLIGHT)
	2-18W T8 LED TUBE LIGHT IN A WEATHERPROOF HOUSING (DAYLIGHT)
	4" ROUND RECESSED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
	4" SQUARE SURFACE MOUNTED PINLIGHT HOUSING WITH 15W E27 LED BULB (DAYLIGHT)
	CEILING MOUNTED EMERGENCY LIGHT
	WALL MOUNTED EMERGENCY LIGHT
EXIT	3W BACK TO BACK ILLUMINATED EXIT SIGN
	8" CEILING MOUNTED EXHAUST FAN *(FOR FWD'S & SMALL CRs)*
	10" CEILING MOUNTED EXHAUST FAN *(FOR MAIN CRs)*
S_a	ONE-GANG WIDE SERIES SWITCH
S_{ab}	TWO-GANG WIDE SERIES SWITCH
S_{abc}	THREE-GANG WIDE SERIES SWITCH
$S3W_a$	ONE-GANG 3-WAY WIDE SERIES SWITCH
$S4W_a$	ONE-GANG 4-WAY WIDE SERIES SWITCH
1 GF-PB	BRANCH CIRCUIT NUMBER / PANELBOARD NAME & LOCATION



LIGHTING FIXTURE MOUNTING DETAIL

NTS



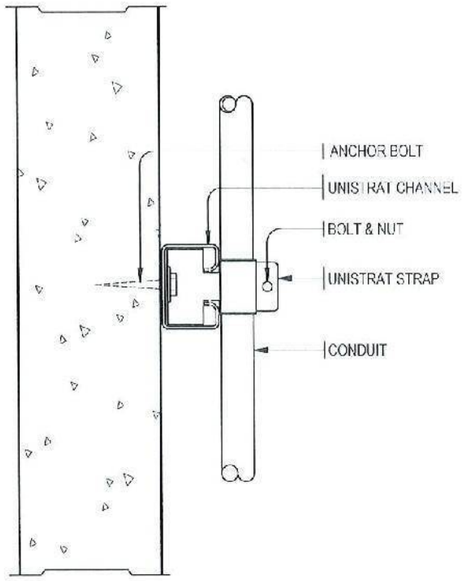
ROOF DECK LIGHTING LAYOUT

SCALE 1 : 130 MTS

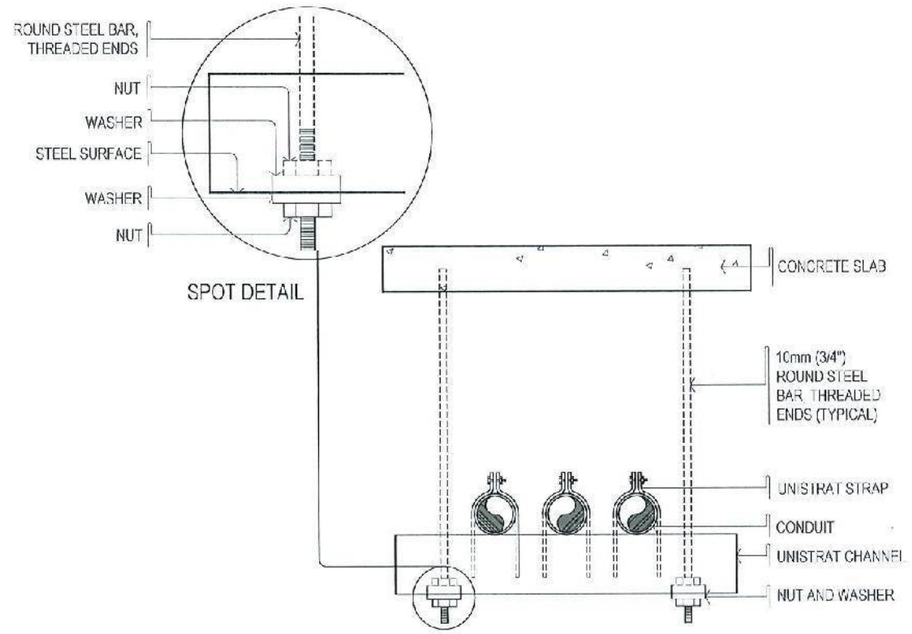
TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER, CFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2023	SHEET NO: E-04 PAGE NO: 54/100

GENERAL NOTES & SPECIFICATION

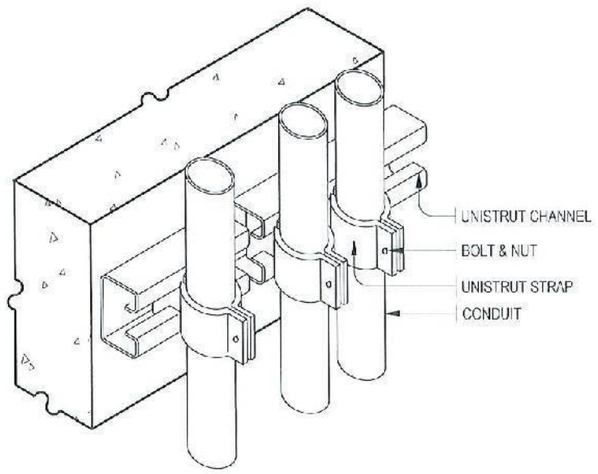
1. ALL WORKS HEREIN SHALL COMPLY WITH THE LATEST PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE WITH THE RULES AND REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITIES CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND ORDINANCES AND WITH THE RULES AND REGULATIONS OF THE POWER COMPANY CONCERNED.
2. ALL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY QUALIFIED AND COMPETENT LICENSED ELECTRICAL ENGINEER.
3. ALL MATERIALS AND EQUIPMENT TO BE USED SHALL BE NEW AND APPROVED TYPE FOR THE LOCATION AND PURPOSES.
4. THE SERVICE ENTRANCE SHALL BE THREE PHASE, THREE WIRES+GROUND, 230V, 60Hz IN PVC CONDUIT.
5. WHENEVER REQUIRED AND NECESSARY PVC PULLBOXES AND JUNCTION BOXES SHALL BE INSTALLED AT CONVENIENT SPACE AND LOCATION.
6. ALL PANEL BOARDS SHALL BE BREAKER TYPE ENCLOSED IN A METAL CABINET. ALL MAIN BRANCHES AND MOTOR PANEL SHALL BE BOLT-ON.
7. ALL CONVENIENCE OUTLETS, 3 PRONG (PARALLEL SLOT, GROUNDING TYPE) AND LIGHTING SWITCHES SHALL BE RATED 15A, 240V, AND 10A, 240V RESPECTIVELY AS MANUFACTURED.
8. THE MINIMUM WIRE AND CONDUIT SIZE SHALL BE 3.5mm SQUARE THHN/THWN COPPER AND 20mm dia. REPECTIVELY. (REFER TO THE LOAD SCHEDULE FOR THE OTHER WIRE AND CONDUIT SIZES.)
9. FOR EACH SPACE BRANCH CIRCUIT IN PANEL BOARD PROVIDE ONE EMPTY 20mm dia. CONDUIT CONNECTED TO AN OCTAGONAL BOX ABOVE CEILING.
10. ALL FEEDERS AND BRANCH CIRCUITS SHALL BE INSTALLED AS INDICATED ON PLAN. INDIVIDUAL CIRCUIT HOMERUNS TO PANEL BOARDS SHALL NOT BE COMBINED IN THE SAME RACEWAY UNLESS OTHERWISE INDICATED.
11. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF THE SERVICE ENTRANCE FOR CONNECTION TO THE POWER SUPPLY AND ALSO THE ACTUAL LOCATION OF THE TELEPHONE SERVICE EQUIPMENT FOR THE CONNECTION TO MAIN TELEPHONE CABINET.
12. THE METHOD OF WIRING SHALL BE AS FOLLOWS:
    a. POWER SERVICE ENTRANCE: PVC THICK WALL CONDUIT (SCHEDULE 40 FOR EMBEDDED PIPES)
    b. MAIN FEEDER, FEEDER, AND SUB FEEDER (RUN EXPOSED) PVC THICK WALL CONDUIT (SCHEDULE 40 FOR EMBEDDED PIPES)
    c. LIGHTING AND CONVENIENCE OUTLET: PVC THICKWALL CONDUIT SCHEDULE 40
    d. TELEPHONE: PVC THICKWALL CONDUIT SCHEDULE 40
13. MOUNTING HEIGHTS SHALL BE AS FOLLOWS:
    a. LIGHTING SWITCHES: 1.40M ABOVE FINISHED FLOOR LINE
    b. CONVENIENCE OUTLETS: 0.30M ABOVE FINISHED FLOOR LINE
    c. TELEPHONE OUTLETS: 0.40M ABOVE FINISHED FLOOR LINE
    d. PANEL BOARDS AND TELEPHONE CABINETS: 1.40M ABOVE FINISHED FLOOR LINE
14. ALL MOUNTING HEIGHTS ARE SUBJECT TO THE ARCHITECT'S APPROVAL PRIOR TO THE INSTALLATION. 15. UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, THE FOLLOWING TESTS SHALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS ON FORMS APPROVED BY THE OWNER'S REPRESENTATIVE.
15. UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, THE FOLLOWING TESTS SHALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS ON FORMS APPROVED BY THE OWNER'S REPRESENTATIVE.
    a. INSULATION RESISTANCE TEST
    b. GROUND RESISTANCE TEST
    c. OPERATIONAL TEST
    d. SYSTEM TEST AND ACCEPTANCE
16. WORKMANSHIP: THE WORK THROUGHOUT SHALL BE EXECUTED IN THE MOSTAND THOROUGH MANNER KNOWN TO TRADE AND SATISFACTION OF THE ARCHITECT AND ENGINEER.



ELEVATION



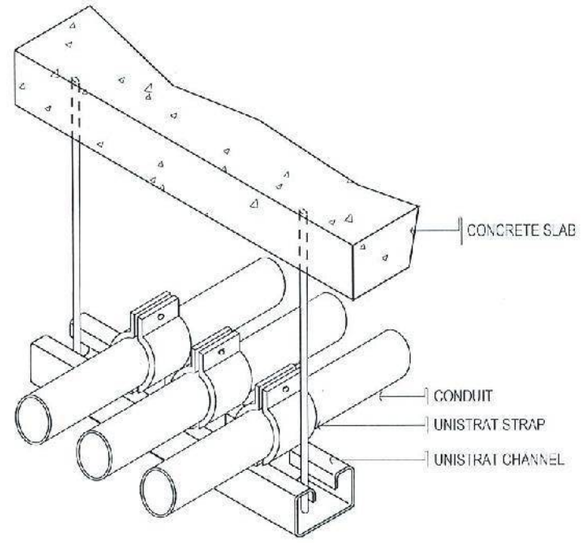
SPOT DETAIL



ISOMETRIC

VERTICAL RUN CONDUIT TYPICAL SUPPORT DETAIL

NTS

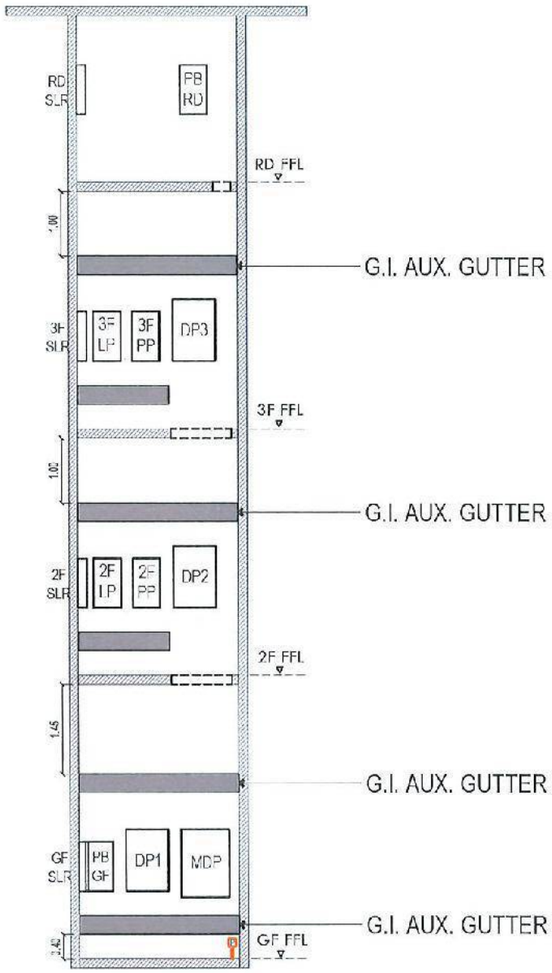


HORIZONTAL RUN CONDUIT TYPICAL SUPPORT DETAIL

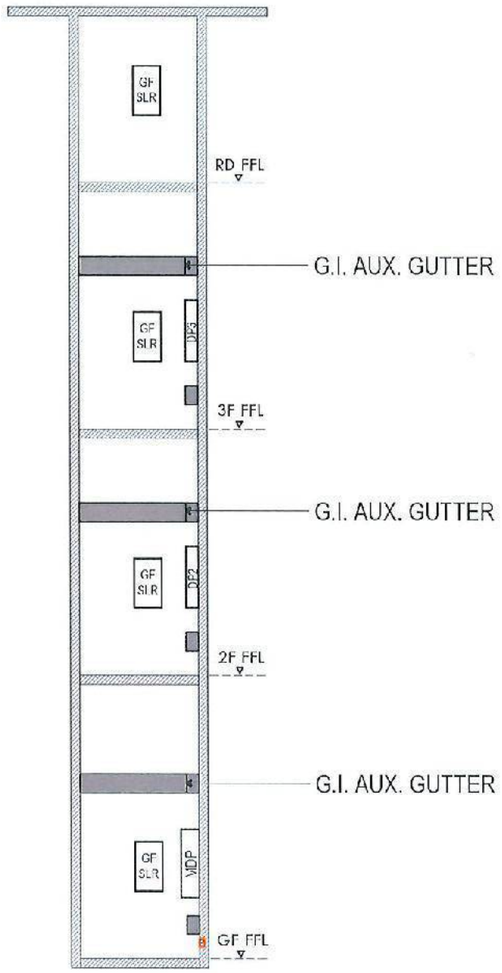
NTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

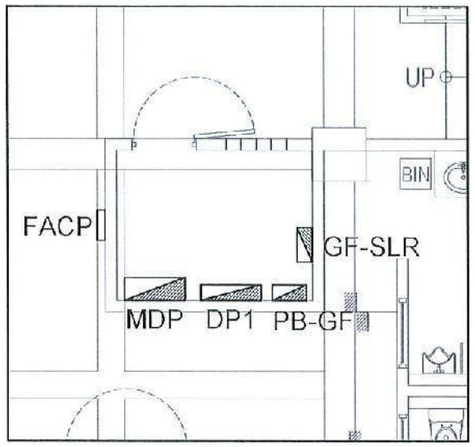
PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD, ELECTRICAL ENGINEER, OFDM-FDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-FDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: E-05
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 55/100



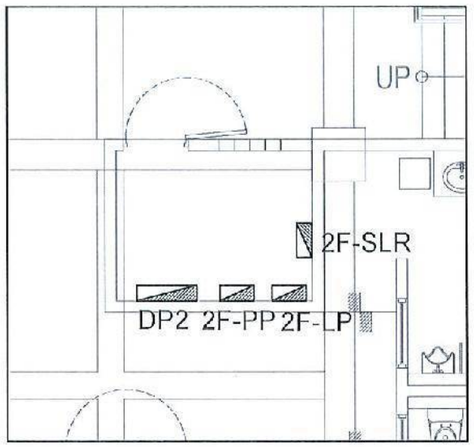
ELECTRICAL ROOM
FRONT ELEVATION



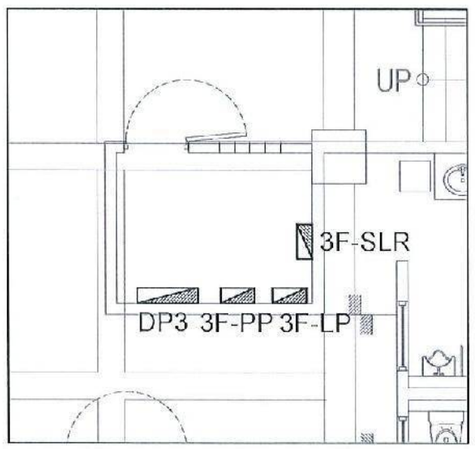
ELECTRICAL ROOM
SIDE ELEVATION



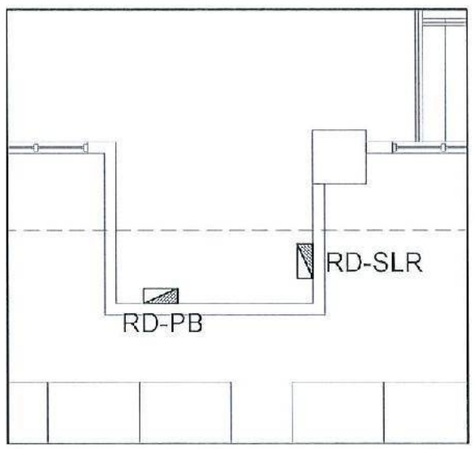
ELECTRICAL ROOM
(GROUND FLOOR)



ELECTRICAL ROOM
(SECOND FLOOR)



ELECTRICAL ROOM
(THIRD FLOOR)

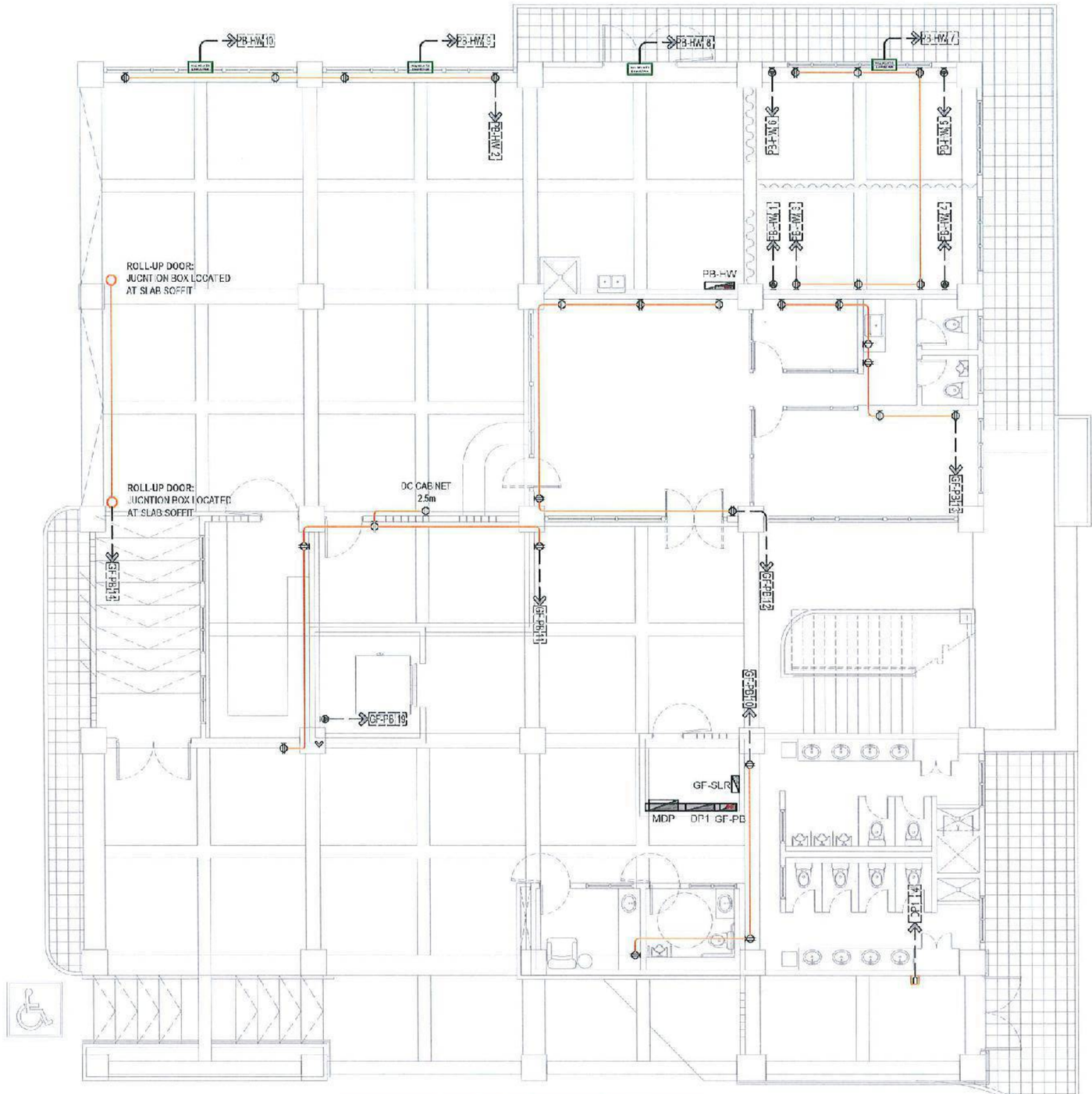


ELECTRICAL ROOM
(ROOF DECK)

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2306

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: ENGR. MARK JOMELVE O. NATIVIDAD, ELECTRICAL ENGINEER, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: E-06
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO. 56/100

LEGENDS	
	UNIVERSAL CONVENIENCE OUTLET WITH GROUND
	SPECIAL OUTLET (CIRCUIT BREAKER ENCLOSED IN A NEMA-3R)
	AIR CONDITIONING UNIT (INDOOR UNIT)
	AIR-CONDITIONING UNIT (OUTDOOR UNIT)
MDP	MAIN DISTRIBUTION PANELBOARD
DP	DISTRIBUTION PANELBOARD
#-PB	FLOOR LEVEL - PANELBOARD
#-SLR	FLOOR LEVEL - SOLAR PANELBOARD
#-LP	FLOOR LEVEL - LIGHTING PANEL
#-PP	FLOOR LEVEL - POWER PANEL
#-HW	FLOOR LEVEL - HOT WORKS PANELBOARD
	BRANCH CIRCUIT NUMBER; 1 GF-PB; PANELBOARD NAME & LOCATION

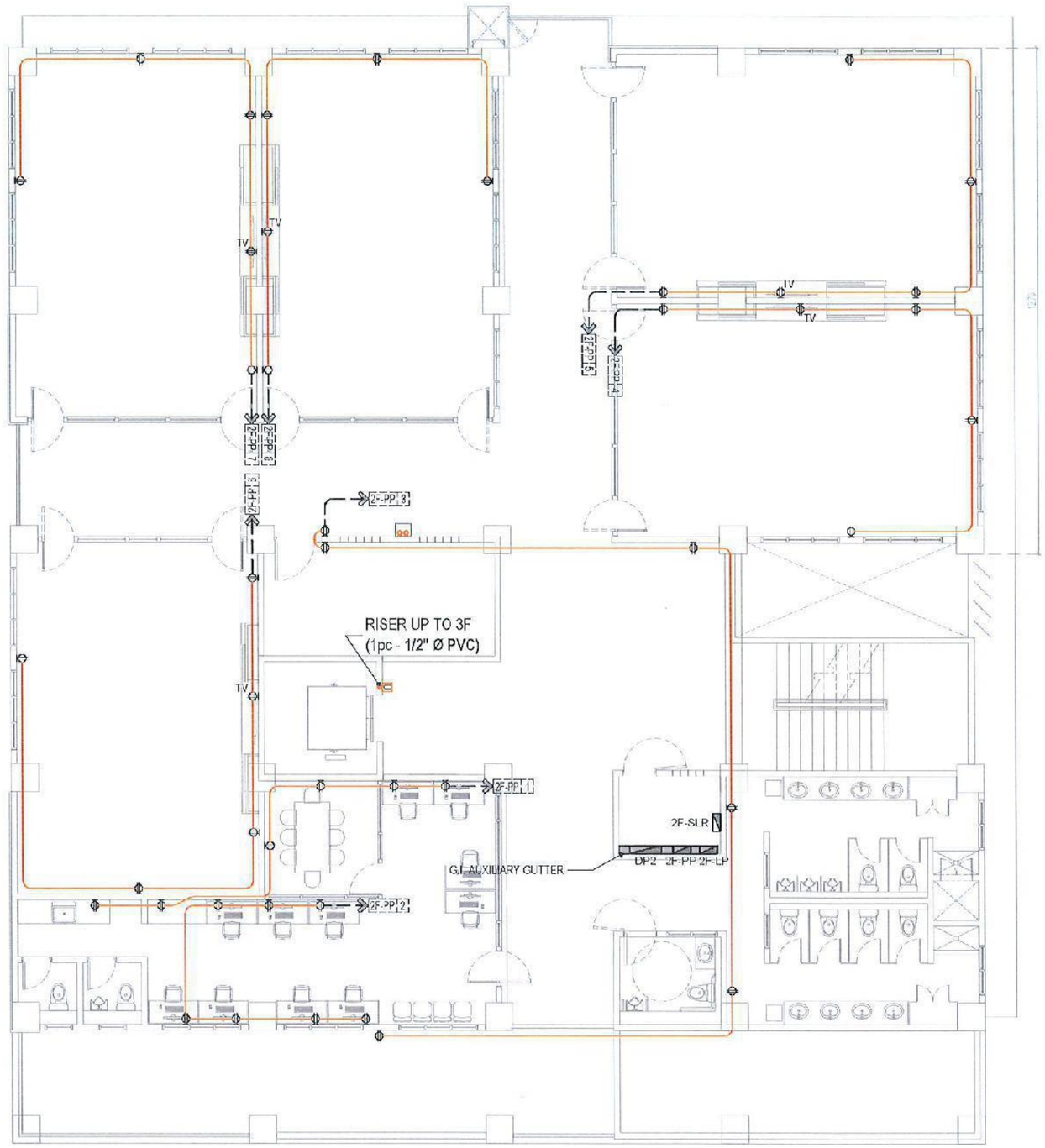


GROUND FLOOR POWER LAYOUT

SCALE 1 : 130 MTS

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. MARK JOMELLE C. NATIVIDAD ELECTRICAL ENGINEER, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, OSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: E-07 PAGE NO: 57/100

LEGENDS	
	UNIVERSAL CONVENIENCE OUTLET WITH GROUND
	SPECIAL OUTLET (CIRCUIT BREAKER ENCLOSED IN A NEMA-3R)
	AIR-CONDITIONING UNIT (INDOOR UNIT)
	AIR-CONDITIONING UNIT (OUTDOOR UNIT)
MDP	MAIN DISTRIBUTION PANELBOARD
DP	DISTRIBUTION PANELBOARD
#-PB	FLOOR LEVEL - PANELBOARD
#-SLR	FLOOR LEVEL - SOLAR PANELBOARD
#-LP	FLOOR LEVEL - LIGHTING PANEL
#-PP	FLOOR LEVEL - POWER PANEL
#-HW	FLOOR LEVEL - HOT WORKS PANELBOARD
1 GF-PB	BRANCH CIRCUIT NUMBER / PANELBOARD NAME & LOCATION

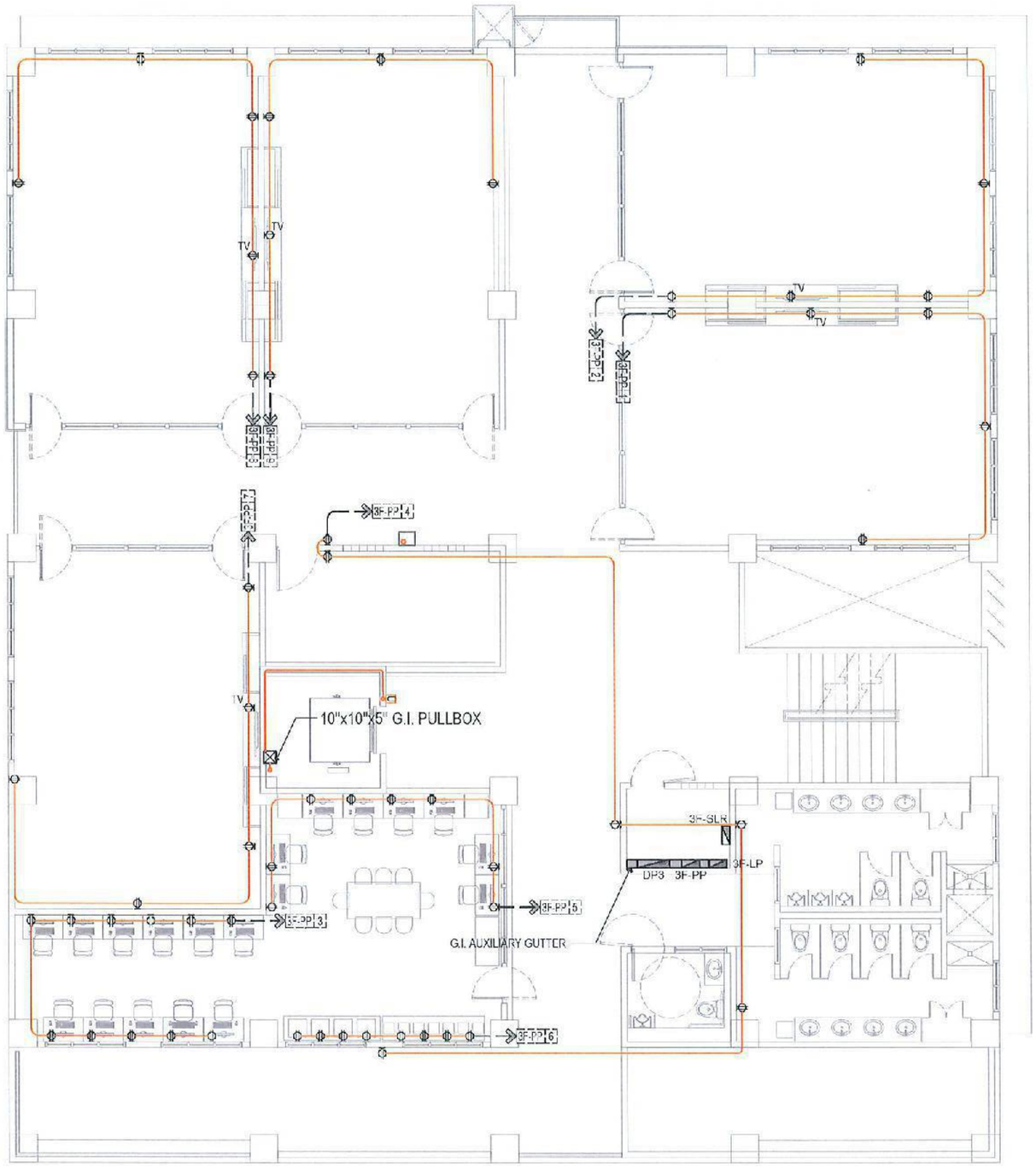


SECOND FLOOR POWER LAYOUT

SCALE 1 : 130 MTS

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. MARK JOMELLE C. NATIVIDAD ELECTRICAL ENGINEER, DFDM PDU	CHECKED BY: AR. CHERRYL L. FABIANES HEAD, DFDM PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, DFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, OSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: E-08 PAGE NO: 58/100

LEGENDS	
	UNIVERSAL CONVENIENCE OUTLET WITH GROUND
	SPECIAL OUTLET (CIRCUIT BREAKER ENCLOSED IN A NEMA-3R)
	AIR-CONDITIONING UNIT (INDOOR UNIT)
	AIR-CONDITIONING UNIT (OUTDOOR UNIT)
MDP	MAIN DISTRIBUTION PANELBOARD
DP	DISTRIBUTION PANELBOARD
#-PB	FLOOR LEVEL - PANELBOARD
#-SLR	FLOOR LEVEL - SOLAR PANELBOARD
#-LP	FLOOR LEVEL - LIGHTING PANEL
#-PP	FLOOR LEVEL - POWER PANEL
#-HW	FLOOR LEVEL - HOT WORKS PANELBOARD
	BRANCH CIRCUIT NUMBER; PANELBOARD NAME & LOCATION (e.g. 1 GF-PB)



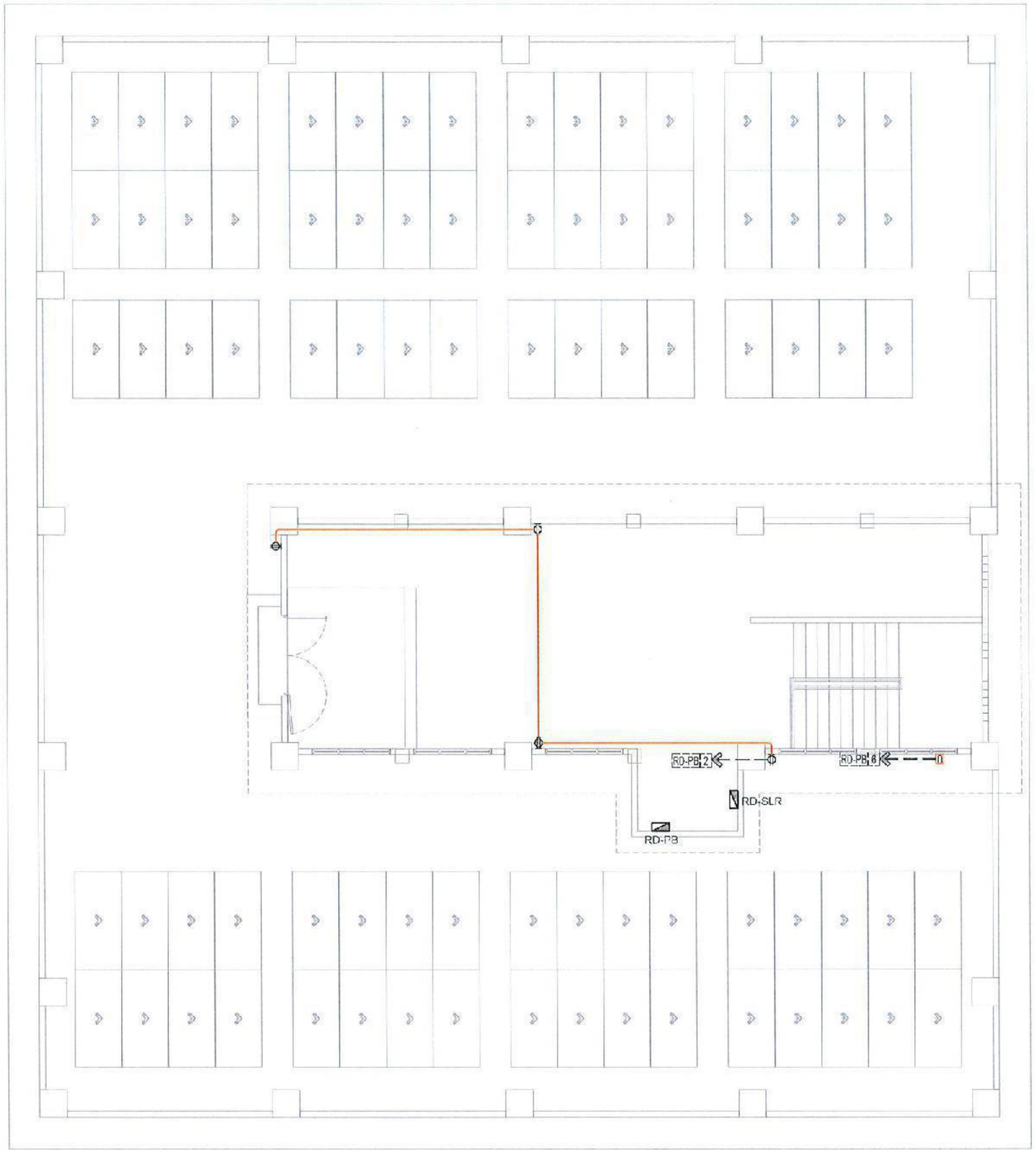
THIRD FLOOR POWER LAYOUT

SCALE 1 : 130 MTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2360

PROJECT TITLE:	CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)
PROJECT LOCATION:	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY
PREPARED BY:	ENGR. MARK JOMELLE O. NATIVIDAD, ELECTRICAL ENGINEER, OFDM-FDU
CHECKED BY:	AR. CHERRY L. FABIANES, HEAD, OFDM-FDU
CERTIFIED BY:	AR. ARLEN M. GUIEB, DIRECTOR, OFDM
REQUESTING OFFICE:	DR. LEO P. PIAO, DIRECTOR, CSET
RECOMMENDING APPROVAL:	DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION
APPROVED:	DR. JASPER JAY N. MENDOZA, PRESIDENT
SHEET CONTENTS:	AS SHOWN
SHEET NO:	E-09
PAGE NO:	59/100
DATE:	2026

LEGENDS	
	UNIVERSAL CONVENIENCE OUTLET WITH GROUND
	SPECIAL OUTLET (CIRCUIT BREAKER ENCLOSED IN A NEMA 3R)
	AIR-CONDITIONING UNIT (INDOOR UNIT)
	AIR-CONDITIONING UNIT (OUTDOOR UNIT)
MDP	MAIN DISTRIBUTION PANELBOARD
DP	DISTRIBUTION PANELBOARD
#-PB	FLOOR LEVEL - PANELBOARD
#-SLR	FLOOR LEVEL - SOLAR PANELBOARD
#-LP	FLOOR LEVEL - LIGHTING PANEL
#-PP	FLOOR LEVEL - POWER PANEL
#-HW	FLOOR LEVEL - HOT WORKS PANELBOARD
	BRANCH CIRCUIT NUMBER 1 GF-PB PANELBOARD NAME & LOCATION

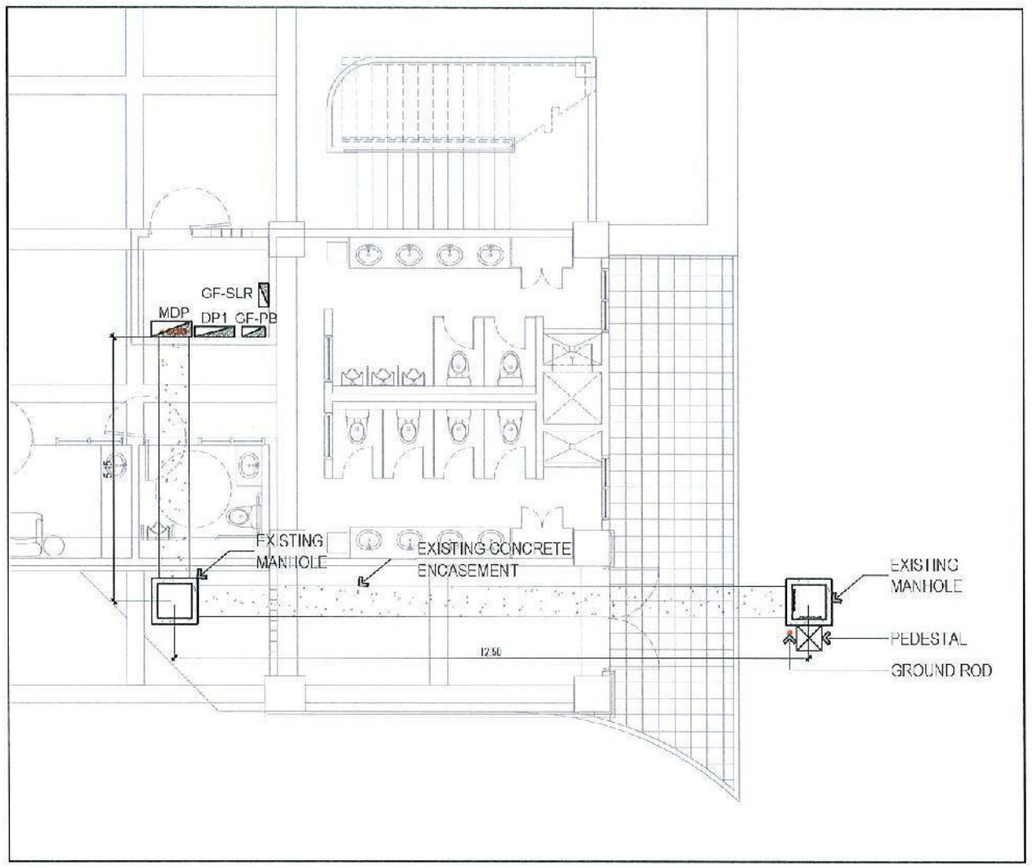


ROOF DECK POWER LAYOUT

SCALE 1 : 130 MTS

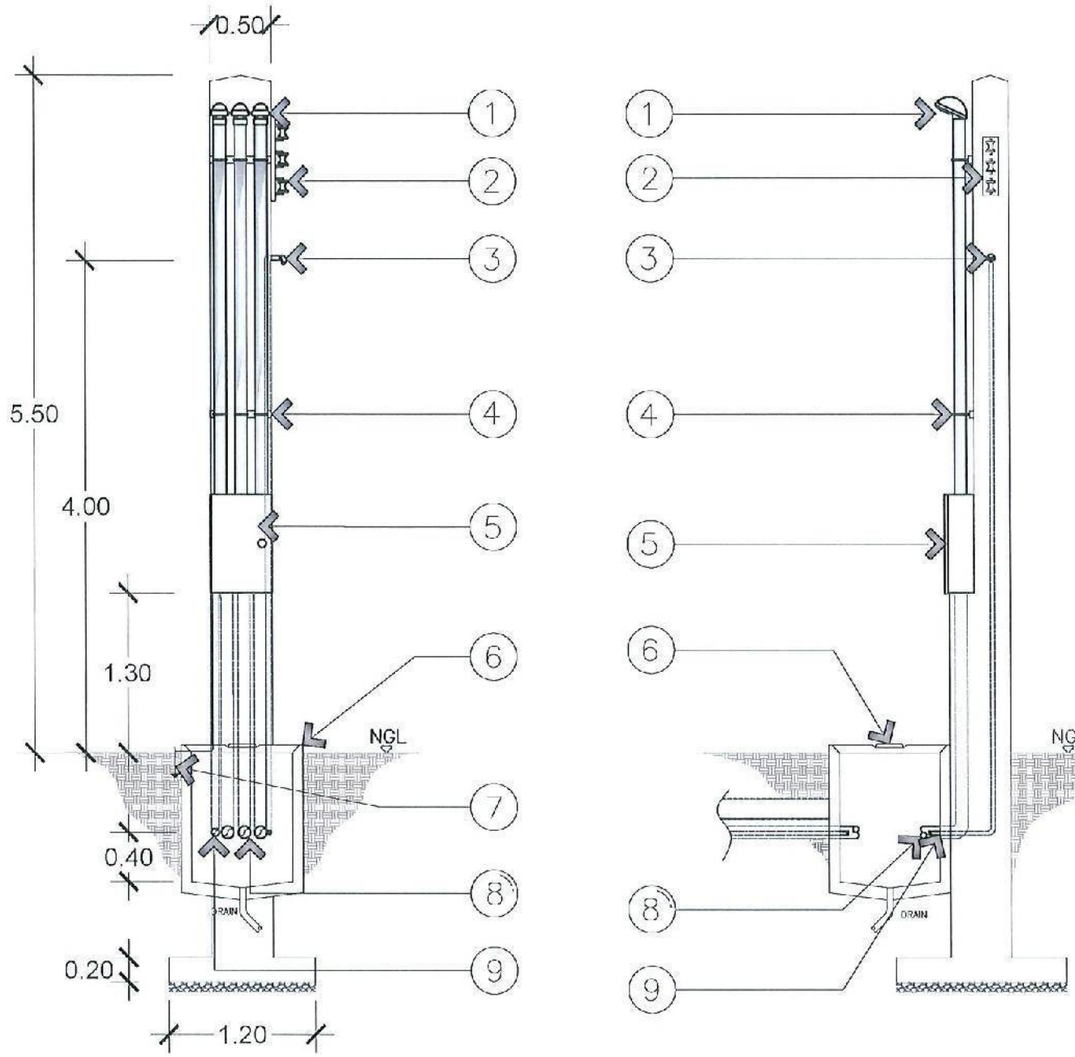
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)
PROJECT LOCATION:	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY
PREPARED BY:	ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER, OFDM-PDO
CHECKED BY:	AR. CHERRY L. FABIANES HEAD, OFDM-PDO
CERTIFIED BY:	AR. ARLEN M. GUILB DIRECTOR, OFDM
REQUESTING OFFICE:	DR. LEO P. PIAO DIRECTOR, CSCT
RECOMMENDING APPROVAL:	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION
APPROVED:	DR. JASPER JAY N. MENDOZA PRESIDENT
SHEET CONTENTS:	AS SHOWN
SHEET NO:	E-10
PAGE NO:	60/100
DATE:	2026



SERVICE ENTRANCE FEEDER LAYOUT

SCALE 1 : 120MTS



FRONT VIEW SIDE VIEW

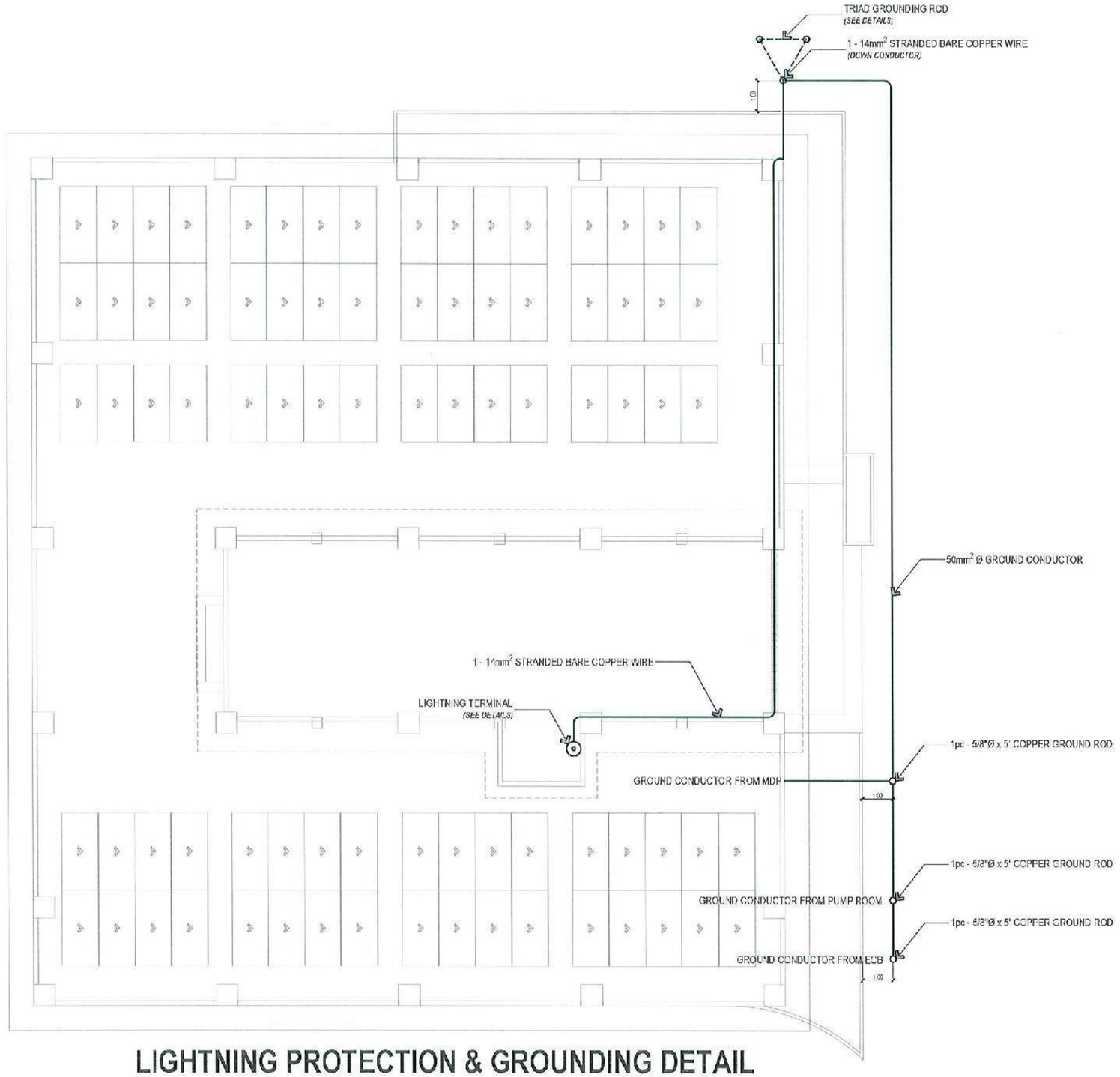
SERVICE ENTRANCE PEDESTAL DETAIL

SCALE 1 : 50MTS

(1)	3pc - 3"Ø SERVICE ENTRANCE CAP	(6)	CONCRETE PULLBOX (see details) *ELEVATED 100mm FROM NGL*
(2)	SECONDARY RACK WITH SPOOL INSULATOR	(7)	GROUND ROD FOR ECB
(3)	1pc - 1"Ø PVC CONDUIT W/ ENTRANCE CAP *INTERNET SERVICE PROVIDER SERVICE ENTRANCE*	(8)	3pc - 3"Ø CONDUIT *FOR SERVICE ENTRANCE*
(4)	3" U-BOLT SUPPORT	(9)	1pc 2-1/2" Ø CONDUIT *FOR FIRE PROTECTION SYSTEM*
(5)	ENCLOSED CIRCUIT BREAKER		

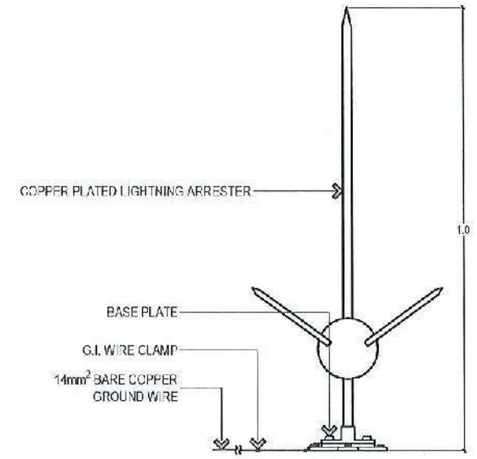
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: ENGR. MARK JOMELLE O. NARVIDAD, ELECTRICAL ENGINEER, OFDM-PDU	CHECKED BY: AR. CHERRYL FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: E-11
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 61/100

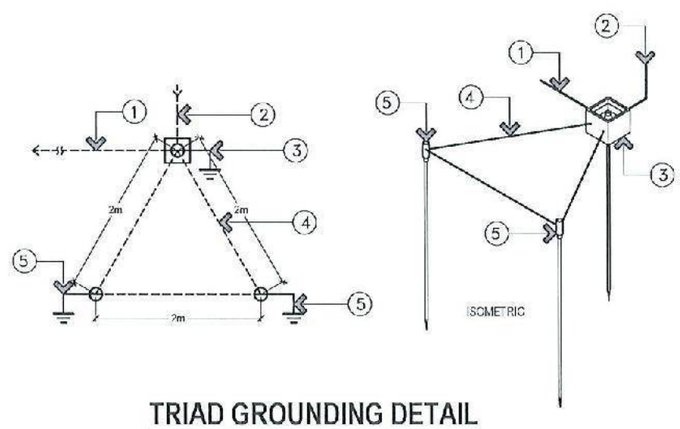


LIGHTNING PROTECTION & GROUNDING DETAIL

SCALE 1 : 150MTS



LIGHTNING TERMINAL DETAIL



TRIAD GROUNDING DETAIL

1. 1 - 50mm² STRANDED BARE COPPER GROUND WIRE - FOR BONDING *(BURIED AT LEAST 100mm FROM NGL)*
2. 1 - 14mm² STRANDED BARE COPPER DOWN CONDUCTOR *(FROM LIGHTNING RODS)*
3. 5/8"Ø x 5' COPPER GROUND ROD IN 200x200x250mm EARTH PIT W/ COVER
4. 1 - 14mm² STRANDED BARE COPPER GROUND WIRE
5. 5/8"Ø x 5' COPPER GROUND ROD

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	ENGR. MARK JOMELLE C. NATIVIDAD ELECTRICAL ENGINEER, OFDM-FDU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. LEO P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT	AS SHOWN	E-12
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2025	PAGE NO: 62/100

GF-PB

LOCATION: GROUND FLOOR ELECTRICAL ROOM | FED FROM: DP1 | SYSTEM VOLTAGE: | 230V, 3-PHASE, 3-WIRE, 60Hz

CIRCUIT NUMBER	DESCRIPTION	NO. OF OUTLET	VA	AMPERE PER PHASE AB	AMPERE PER PHASE BC	AMPERE PER PHASE CA	CIRCUIT BREAKER AT	CIRCUIT BREAKER AF	CIRCUIT BREAKER POLE	CONDUCTOR (mm²)	GROUND (mm²)	TYPE OF WIRE	CONDUIT
1	L.O. - CR & BF	35	485	2.11			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
2	L.O. - STAIRS	9	81	0.35			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
3	L.O. - LOBBY	35	468		2.03		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
4	L.O. - ADMIN OFFICE	35	613		2.67		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
5	L.O. - STORAGE	4	144			0.63	20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
6	L.O. - FABRICATION 1	16	579			2.52	20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
7	L.O. - FABRICATION 2	16	582	2.53			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
8	L.O. - HOTWORKS	19	585	2.54			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
9	L.O. - OUTDOOR	6	60		0.26		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
10	C.O. - CR	3	540		2.35		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
11	C.O. - LOBBY	5	900			3.91	20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
12	C.O. - ADMIN 1	5	900			3.91	20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
13	C.O. - ADMIN 2	6	1080	4.70			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
14	1.0HP ROLL-UP DOOR	1	1840	8.00			30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
15	1HP ACU - DIRECTOR'S OFFICE	1	1840		8.00		30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
16	3HP ACU - ADMIN OFFICE	1	3910		17.00		40	100	2	2 - 8.0	1 - 5.5	THHN	3/4" RIGID PVC
17	2HP ACU - CONFERENCE ROOM	1	2760			12.00	30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
18	1HP ACU - BF	1	1840			8.00	30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
19	1HP SUBMERSIBLE PUMP	1	1840	8.00			30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
20	FACP	1	1000	4.35			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
21	*SPACE*	-	-	-	-	-	-	-	-	-	-	-	-
22	*SPACE*	-	-	-	-	-	-	-	-	-	-	-	-
23	*SPACE*	-	-	-	-	-	-	-	-	-	-	-	-
24	*SPACE*	-	-	-	-	-	-	-	-	-	-	-	-

COMPUTATION

TOTAL CONNECTED LOAD PER PHASE (A):	32.58	32.31	30.97	100	200	3	3 - 38	1 - 8.0	THHN	1-1/2" RIGID PVC
TOTAL LOAD CURRENT (A):	63.79			ENCLOSURE:			NEMA 1			
DEMAND FACTOR:	80%			MOUNTING:			SURFACE MOUNTED			
TOTAL DEMAND LOAD CURRENT (A):	51.03									

PB-HW

LOCATION: GROUND FLOOR HOTWORKS AREA | FED FROM: DP1 | SYSTEM VOLTAGE: | 230V, 3-PHASE, 3-WIRE, 60Hz

CIRCUIT NUMBER	DESCRIPTION	NO. OF OUTLET	VA	AMPERE PER PHASE AB	AMPERE PER PHASE BC	AMPERE PER PHASE CA	CIRCUIT BREAKER AT	CIRCUIT BREAKER AF	CIRCUIT BREAKER POLE	CONDUCTOR (mm²)	GROUND (mm²)	TYPE OF WIRE	CONDUIT
1	WELDING MACHINE	1	3800	16.52			30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
2	C.O.	4	720	3.13			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
3	C.O.	6	1080		4.70		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
4	WELDING MACHINE	1	3800		16.52		30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
5	WELDING MACHINE	1	3800			16.52	30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
6	WELDING MACHINE	1	3800			16.52	30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
7	WALL MOUNTED EXHAUST FAN	1	350	1.52			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
8	WALL MOUNTED EXHAUST FAN	1	350	1.52			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
9	WALL MOUNTED EXHAUST FAN	1	350		1.52		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
10	WALL MOUNTED EXHAUST FAN	1	350		1.52		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
11	SPARE	1	3000			13.04	-	-	-	-	-	-	-
12	SPARE	1	1500			6.52	-	-	-	-	-	-	-
13	SPARE	1	1500	6.52			-	-	-	-	-	-	-
14	SPARE	1	1500	6.52			-	-	-	-	-	-	-
15	SPARE	1	1500		6.52		-	-	-	-	-	-	-
16	SPARE	1	1500		6.52		-	-	-	-	-	-	-

COMPUTATION

TOTAL CONNECTED LOAD PER PHASE (A):	35.73	37.30	52.61	100	200	2	3 - 38	1 - 8.0	THHN	1-1/2" RIGID PVC
TOTAL LOAD CURRENT (A):	91.77			ENCLOSURE:			NEMA 1			
DEMAND FACTOR:	80%			MOUNTING:			SURFACE MOUNTED			
TOTAL DEMAND LOAD CURRENT (A):	73.42									

2F-LP

LOCATION: SECOND FLOOR ELECTRICAL ROOM | FED FROM: DP2 | SYSTEM VOLTAGE: | 230V, 3-PHASE, 3-WIRE, 60Hz

CIRCUIT NUMBER	DESCRIPTION	NO. OF OUTLET	VA	AMPERE PER PHASE AB	AMPERE PER PHASE BC	AMPERE PER PHASE CA	CIRCUIT BREAKER AT	CIRCUIT BREAKER AF	CIRCUIT BREAKER POLE	CONDUCTOR (mm²)	GROUND (mm²)	TYPE OF WIRE	CONDUIT
1	L.O. - CR & BF	35	485	2.11			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
2	L.O. HALLWAY	20	336	1.45			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
3	L.O. - FACULTY	26	327		1.42		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
4	L.O. - CLASSROOM	13	435		1.89		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
5	L.O. - CLASSROOM	13	435			1.89	20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
6	L.O. - CLASSROOM	13	435			1.89	20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
7	L.O. - CLASSROOM	13	435	1.89			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
8	L.O. - CLASSROOM	13	435	1.89			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
9	SPACE	-	-	-	-	-	-	-	-	-	-	-	-
10	SPACE	-	-	-	-	-	-	-	-	-	-	-	-
11	SPACE	-	-	-	-	-	-	-	-	-	-	-	-
12	SPACE	-	-	-	-	-	-	-	-	-	-	-	-

COMPUTATION

TOTAL CONNECTED LOAD PER PHASE (A):	7.35	3.31	3.78	50	100	3	3 - 8.0	1 - 5.5	THHN	1" RIGID PVC
TOTAL LOAD CURRENT (A):	12.73			ENCLOSURE:			NEMA 1			
DEMAND FACTOR:	80%			MOUNTING:			SURFACE MOUNTED			
TOTAL DEMAND LOAD CURRENT (A):	10.19									

RD-PB

LOCATION: THIRD FLOOR ELECTRICAL ROOM | FED FROM: DP3 | SYSTEM VOLTAGE: | 230V, 3-PHASE, 3-WIRE, 60Hz

CIRCUIT NUMBER	DESCRIPTION	NO. OF OUTLET	VA	AMPERE PER PHASE AB	AMPERE PER PHASE BC	AMPERE PER PHASE CA	CIRCUIT BREAKER AT	CIRCUIT BREAKER AF	CIRCUIT BREAKER POLE	CONDUCTOR (mm²)	GROUND (mm²)	TYPE OF WIRE	CONDUIT
1	L.O.	11	396	1.72			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
2	C.O.	4	720	3.13			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
3	SPACE	-	-	-	-	-	-	-	-	-	-	-	-
4	SPACE	-	-	-	-	-	-	-	-	-	-	-	-
5	SPACE	-	-	-	-	-	-	-	-	-	-	-	-
6	SPACE	-	-	-	-	-	-	-	-	-	-	-	-

COMPUTATION

TOTAL CONNECTED LOAD PER PHASE (A):	4.85	0.00	0.00	40	100	3	3 - 8.0	1 - 5.5	THHN	1" RIGID PVC
TOTAL LOAD CURRENT (A):	8.40			ENCLOSURE:			NEMA 1			
DEMAND FACTOR:	80%			MOUNTING:			SURFACE MOUNTED			
TOTAL DEMAND LOAD CURRENT (A):	6.72									

2F-PP

LOCATION: SECOND FLOOR ELECTRICAL ROOM | FED FROM: DP2 | SYSTEM VOLTAGE: | 230V, 3-PHASE, 3-WIRE, 60Hz

CIRCUIT NUMBER	DESCRIPTION	NO. OF OUTLET	VA	AMPERE PER PHASE AB	AMPERE PER PHASE BC	AMPERE PER PHASE CA	CIRCUIT BREAKER AT	CIRCUIT BREAKER AF	CIRCUIT BREAKER POLE	CONDUCTOR (mm²)	GROUND (mm²)	TYPE OF WIRE	CONDUIT
1	C.O. - FACULTY 1	6	1080	4.70			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
2	C.O. - FACULTY 2	7	1260	5.48			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
3	C.O. - HALLWAY	6	1080		4.70		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
4	C.O. - CLASSROOM	5	900		3.91		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
5	C.O. - CLASSROOM	5	900			3.91	20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
6	C.O. - CLASSROOM	5	900			3.91	20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
7	C.O. - CLASSROOM	5	900	3.91			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
8	C.O. - CLASSROOM	5	900	3.91			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
9	2.0HP ACU - FACULTY	1	2760		12.00		30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
10	1.0HP ACU - CONFERENCE	1	1840		8.00		30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
11	2.5HP ACU - CLASSROOM	1	3450			15.00	30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
12	2.5HP ACU - CLASSROOM	1	3450			15.00	30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
13	2.0HP ACU - FACULTY	1	2760	12.00			30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
14	2.5HP ACU - CLASSROOM	1	3450	15.00			30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
15	2.5HP ACU - CLASSROOM	1	3450		15.00		30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
16	2.5HP ACU - CLASSROOM	1	3450		15.00		30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
17	2.5HP ACU - CLASSROOM	1	3450			15.00	30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
18	2.5HP ACU - CLASSROOM	1	3450			15.00	30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
19	2.5HP ACU - CLASSROOM	1	3450	15.00			30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
20	2.5HP ACU - CLASSROOM	1	3450	15.00			30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
21	2.5HP ACU - CLASSROOM	1	3450		15.00		30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
22	SPACE	-	-	-	-	-	-	-	-	-	-	-	-
23	SPACE	-	-	-	-	-	-	-	-	-	-	-	-
24	SPACE	-	-	-	-	-	-	-	-	-	-	-	-

COMPUTATION

TOTAL CONNECTED LOAD PER PHASE (A):	75.00	73.61	67.83	150	200	3	3 - 80	1 - 14	THHN	2" RIGID PVC
TOTAL LOAD CURRENT (A):	136.40			ENCLOSURE:			NEMA 1			
DEMAND FACTOR:	80%			MOUNTING:			SURFACE MOUNTED			
TOTAL DEMAND LOAD CURRENT (A):	109.12									

3F-LP

LOCATION: THIRD FLOOR ELECTRICAL ROOM | FED FROM: DP3 | SYSTEM VOLTAGE: | 230V, 3-PHASE, 3-WIRE, 60Hz

CIRCUIT NUMBER	DESCRIPTION	NO. OF OUTLET	VA	AMPERE PER PHASE AB	AMPERE PER PHASE BC	AMPERE PER PHASE CA	CIRCUIT BREAKER AT	CIRCUIT BREAKER AF	CIRCUIT BREAKER POLE	CONDUCTOR (mm²)	GROUND (mm²)	TYPE OF WIRE	CONDUIT
1	L.O. - CR & BF	35	485	2.11			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
2	L.O. HALLWAY	20	336	1.46			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
3	L.O. - COMPUTER ROOM	28	1008		4.38		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
4	L.O. - CLASSROOM	13	435		1.89		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
5	L.O. - CLASSROOM	13	435			1.89	20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
6	L.O. - CLASSROOM	13	435			1.89	20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
7	L.O. - CLASSROOM	13	435	1.89			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
8	L.O. - CLASSROOM	13	435	1.89			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
9	SPACE	-	-	-	-	-	-	-	-	-	-	-	-
10	SPACE	-	-	-	-	-	-	-	-	-	-	-	-
11	SPACE	-	-	-	-	-	-	-	-	-	-	-	-
12	SPACE	-	-	-	-	-	-	-	-	-	-	-	-

COMPUTATION

TOTAL CONNECTED LOAD PER PHASE (A):	7.35	6.27	3.78	50	100	2	3 - 8.0	1 - 5.5	THHN	1" RIGID PVC
TOTAL LOAD CURRENT (A):	12.73			ENCLOSURE:			NEMA 1			
DEMAND FACTOR:	80%			MOUNTING:			SURFACE MOUNTED			
TOTAL DEMAND LOAD CURRENT (A):	10.19									

3F-PP

LOCATION: THIRD FLOOR ELECTRICAL ROOM | FED FROM: DP3 | SYSTEM VOLTAGE: | 230V, 3-PHASE, 3-WIRE, 60Hz

CIRCUIT NUMBER	DESCRIPTION	NO. OF OUTLET	VA	AMPERE PER PHASE AB	AMPERE PER PHASE BC	AMPERE PER PHASE CA	CIRCUIT BREAKER AT	CIRCUIT BREAKER AF	CIRCUIT BREAKER POLE	CONDUCTOR (mm²)	GROUND (mm²)	TYPE OF WIRE	CONDUIT
1	C.O. - CLASSROOM	5	900	3.91			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
2	C.O. - CLASSROOM	5	900	3.91			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
3	C.O. - COMPUTER ROOM 3	11	1980		8.61		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
4	C.O. - HALLWAY	6	1080		4.70		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
5	C.O. - COMPUTER ROOM 1	8	1440			6.26	20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
6	C.O. - COMPUTER ROOM 2	8	1440			6.26	20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
7	C.O. - CLASSROOM	5	900	3.91			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
8	C.O. - CLASSROOM	5	900	3.91			20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
9	C.O. - CLASSROOM	5	900		3.91		20	100	2	2 - 3.5	1 - 3.5	THHN	1/2" RIGID PVC
10	2.5HP ACU - CLASSROOM	1	3450		15.00		30	100	2	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
11	2.5HP ACU - CLASSROOM	2	3450			15.00	30	100	3	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
12	2.5HP ACU - CLASSROOM	3	3450			15.00	30	100	4	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
13	2.5HP ACU - CLASSROOM	4	3450	15.00			30	100	5	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
14	2.5HP ACU - CLASSROOM	5	3450	15.00			30	100	6	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
15	2.5HP ACU - CLASSROOM	6	3450		15.00		30	100	7	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
16	2.5HP ACU - CLASSROOM	7	3450		15.00		30	100	8	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
17	2.5HP ACU - CLASSROOM	8	3450			15.00	30	100	9	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
18	2.5HP ACU - CLASSROOM	9	3450			15.00	30	100	10	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
19	2.5HP ACU - CLASSROOM	10	3450	15.00			30	100	11	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
20	2.5HP ACU - CLASSROOM	11	3450	15.00			30	100	12	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
21	2.5HP ACU - CLASSROOM	12	3450		15.00		30	100	13	2 - 5.5	1 - 3.5	THHN	3/4" RIGID PVC
22	SPACE	-	-	-	-	-	-	-	-	-	-	-	-
23	SPACE	-	-	-	-	-	-	-	-	-	-	-	-
24	SPACE	-	-	-	-	-	-	-	-	-	-	-	-

COMPUTATION

TOTAL CONNECTED LOAD PER PHASE (A):	75.65	77.22	72.52	150	200	2	3 - 80	1 - 14	THHN	2" RIGID PVC
TOTAL LOAD CURRENT (A):	140.24			ENCLOSURE:			NEMA 1			
DEMAND FACTOR:	80%			MOUNTING:			SURFACE MOUNTED			
TOTAL DEMAND LOAD CURRENT (A):	112.19									

SCHEDULE OF LOADS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER, OFDM-PDU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. LEO P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT	AS SHOWN	E-13
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 63/100

MDP

LOCATION: GROUND FLOOR ELECTRICAL ROOM
FED FROM: ECB
SYSTEM VOLTAGE: 230V, 3-PHASE, 3-WIRE, 60Hz

CIRCUIT NUMBER	DESCRIPTION	NO. OF OUTLET	VA	AMPERE PER PHASE AB	BC	CA	ABC	CIRCUIT BREAKER AT	AF	POLE	CONDUCTOR (mm²)	GROUND (mm²)	TYPE OF WIRE	CONDUIT	LENGTH (m)	VD% FROM MDP
1	DP1	1	54771	68.31	69.61	83.57	9.60	200	500	3	3 - 100	1 - 14	THHN	2" RIGID PVC		0.00%
2	DP2	1	53103	82.35	76.92	71.61	0.00	200	500	3	3 - 100	1 - 14	THHN	2" RIGID PVC		0.00%
3	DP3	1	56960	87.86	83.49	76.30	0.00	200	500	3	3 - 100	1 - 14	THHN	2" RIGID PVC		0.00%
4	ELEVATOR *(PROVISION)*	1	16731				42.00	100	200	3	3 - 100	1 - 8.0	THHN	2" RIGID PVC		0.00%
5	*SPARE*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	*SPARE*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

COMPUTATION

TOTAL CONNECTED LOAD PER PHASE (A):	238.52	230.02	231.49	51.60	800	1000	3	3 - 200	1 - 50	THHN	3" RIGID PVC		
TOTAL LOAD CURRENT (A):	475.22							3 SET			IN CONCRETE ENCASEMENT		
DEMAND FACTOR:	80%												
TOTAL DEMAND LOAD CURRENT (A):	380.17				TOTAL KILO-VOLT AMPERE (KVA):			151.45		DISTRIBUTION TRANSFORMER RATING:		3-SINGLE PHASE 75KVA	
					KVA PER PHASE (KVA):			50.48					

DP1

LOCATION: GROUND FLOOR ELECTRICAL ROOM
FED FROM: MDP
SYSTEM VOLTAGE: 230V, 3-PHASE, 3-WIRE, 60Hz

CIRCUIT NUMBER	DESCRIPTION	NO. OF OUTLET	VA	AMPERE PER PHASE AB	BC	CA	ABC	CIRCUIT BREAKER AT	AF	POLE	CONDUCTOR (mm²)	GROUND (mm²)	TYPE OF WIRE	CONDUIT
1	GF-PB	1	22047	32.58	32.31	30.97		100	200	3	3 - 38	1 - 8.0	THHN	1-1/2" RIGID PVC
2	PB-HW	1	28900	35.73	37.30	52.61		100	200	3	3 - 38	1 - 8.0	THHN	1-1/2" RIGID PVC
3	PB-FABRICATION *(PROVISION)*	1	-	-	-	-	-	-	-	-	-	-	-	-
4	3HP BOOSTER PUMP	1	3824	-	-	-	9.6	30	100	3	3 - 5.5	1 - 3.5	THHN	1" RIGID PVC
5	*SPACE*	-	-	-	-	-	-	-	-	-	-	-	-	-
6	*SPACE*	-	-	-	-	-	-	-	-	-	-	-	-	-

COMPUTATION

TOTAL CONNECTED LOAD PER PHASE (A):	68.31	69.61	83.57	9.60	200	500	3	3 - 100	1 - 14	THHN	2" RIGID PVC
TOTAL LOAD CURRENT (A):	154.35										
DEMAND FACTOR:	80%				ENCLOSURE:			NEMA 1			
TOTAL DEMAND LOAD CURRENT (A):	123.48				MOUNTING:			SURFACE MOUNTED			

DP2

LOCATION: SECOND FLOOR ELECTRICAL ROOM
FED FROM: MDP
SYSTEM VOLTAGE: 230V, 3-PHASE, 3-WIRE, 60Hz

CIRCUIT NUMBER	DESCRIPTION	NO. OF OUTLET	VA	AMPERE PER PHASE AB	BC	CA	ABC	CIRCUIT BREAKER AT	AF	POLE	CONDUCTOR (mm²)	GROUND (mm²)	TYPE OF WIRE	CONDUIT
1	2F-LP	1	3323	7.35	3.31	3.78		50	100	3	3 - 8.0	1 - 5.5	THHN	1" RIGID PVC
2	2F-PP	1	49780	75.00	73.61	67.83		150	200	3	3 - 80	1 - 14	THHN	2" RIGID PVC
3	*SPACE*	-	-	-	-	-	-	-	-	-	-	-	-	-
4	*SPACE*	-	-	-	-	-	-	-	-	-	-	-	-	-

COMPUTATION

TOTAL CONNECTED LOAD PER PHASE (A):	82.35	76.92	71.61	0.00	200	500	3	3 - 100	1 - 14	THHN	2" RIGID PVC
TOTAL LOAD CURRENT (A):	142.63										
DEMAND FACTOR:	80%				ENCLOSURE:			NEMA 1			
TOTAL DEMAND LOAD CURRENT (A):	114.11				MOUNTING:			SURFACE MOUNTED			

DP3

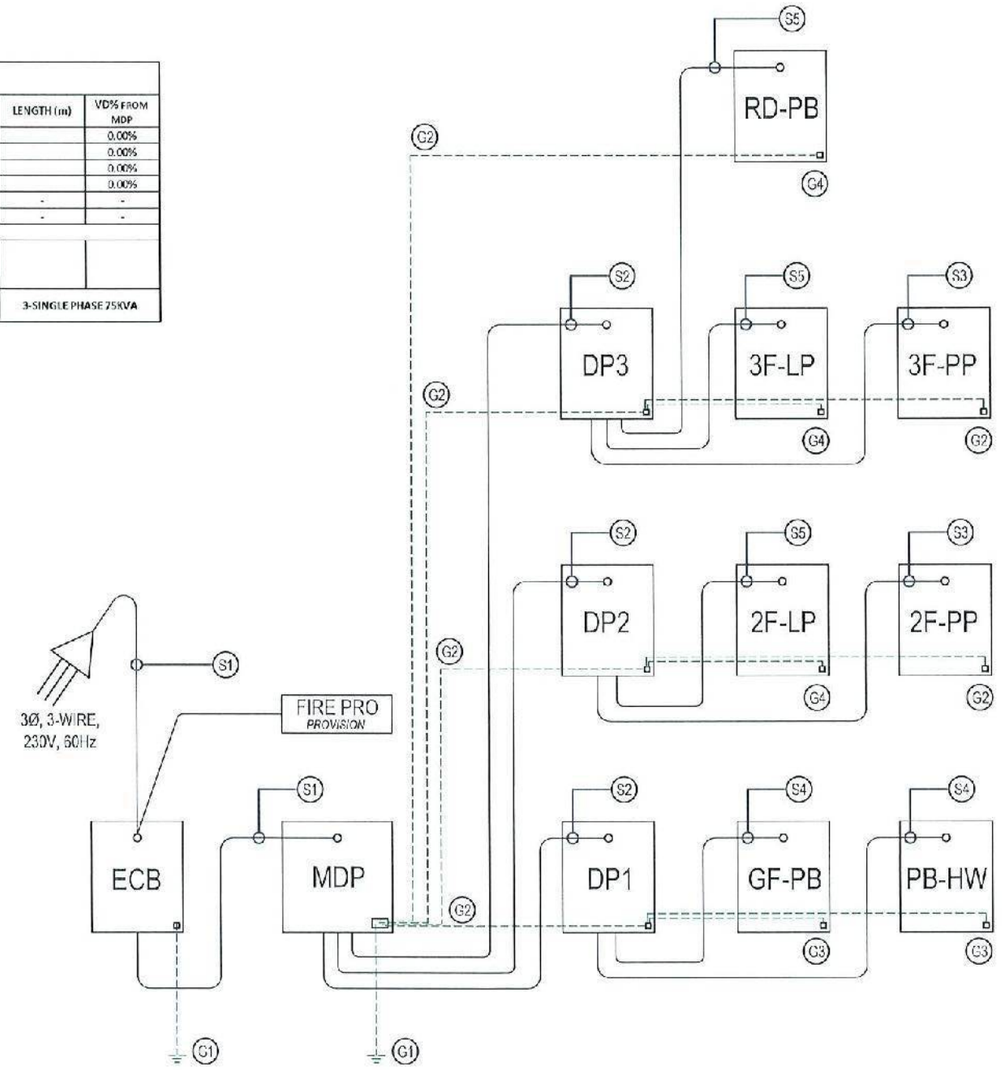
LOCATION: THIRD FLOOR ELECTRICAL ROOM
FED FROM: MDP
SYSTEM VOLTAGE: 230V, 3-PHASE, 3-WIRE, 60Hz

CIRCUIT NUMBER	DESCRIPTION	NO. OF OUTLET	VA	AMPERE PER PHASE AB	BC	CA	ABC	CIRCUIT BREAKER AT	AF	POLE	CONDUCTOR (mm²)	GROUND (mm²)	TYPE OF WIRE	CONDUIT
1	3F-LP	1	4004	7.35	6.27	3.78		50	100	3	3 - 8.0	1 - 5.5	THHN	1" RIGID PVC
2	3F-PP	1	51840	75.65	77.22	72.52		150	200	3	3 - 80	1 - 14	THHN	2" RIGID PVC
3	RD-PB	1	1116	4.85	0.00	0.00	0.00	40	100	3	3 - 8.0	1 - 5.5	THHN	1" RIGID PVC
4	*SPACE*	-	-	-	-	-	-	-	-	-	-	-	-	-

COMPUTATION

TOTAL CONNECTED LOAD PER PHASE (A):	87.86	83.49	76.30	0.00	200	500	3	3 - 100	1 - 14	THHN	2" RIGID PVC
TOTAL LOAD CURRENT (A):	152.17										
DEMAND FACTOR:	80%				ENCLOSURE:			NEMA 1			
TOTAL DEMAND LOAD CURRENT (A):	121.73				MOUNTING:			SURFACE MOUNTED			

SCHEDULE OF LOADS



SINGLE LINE DIAGRAM

WIRE CODE

- (S1) 3SET OF 3-200mm² THHN/THWN Cu. WIRE
- (S2) 3-100mm² THHN/THWN Cu. WIRE
- (S3) 3-80mm² THHN/THWN Cu. WIRE
- (S4) 3-38mm² THHN/THWN Cu. WIRE
- (S5) 3-8.0mm² THHN/THWN Cu. WIRE
- (G1) 1-50mm² THHN/THWN
- (G2) 1-14mm² THHN/THWN
- (G3) 1-8.0mm² THHN/THWN
- (G4) 1-5.5mm² THHN/THWN

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:
ENGR. MARK JOMELLE S. FATIMIDAD, ELECTRICAL ENGINEER, OFDM-PDU	AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	AR. ARLEN M. GUIEB, DIRECTOR, OFDM	DR. LEO P. PIAO, DIRECTOR, CSET	DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA, PRESIDENT

SHEET CONTENTS: AS SHOWN
DATE: 2025
SHEET NO: E-14
PAGE NO: 64/100

VOLTAGE DROP CALCULATION

MAIN DISTRIBUTION PANELBOARD (MDP)
3 SETS OF 3-200mm^2 THHN Cu. WIRE /
EFF.Z AT 0.85PF = 0.049
L = 38m / I = 380.17A

$$VD = \frac{1.732 \times 38 \times 380.17 \times 0.049/305}{3}$$

VD = 1.34V ~ **0.582%**

DP3
3 - 100mm^2 THHN Cu. WIRE /
EFF. Z AT 0.85PF = 0.074
L = 25m / I = 121.73A

VD = 1.732 x 25 x 121.73 x 0.074/305
VD = 1.279V ~ **0.559%**

3F-PP
3 - 80mm^2 THHN Cu. WIRE /
EFF. Z AT 0.85PF = 0.88
L = 3m / I = 112.19A

VD = 1.732 x 3 x 112.19 x 0.88/305
VD = 1.682V ~ **0.739%**

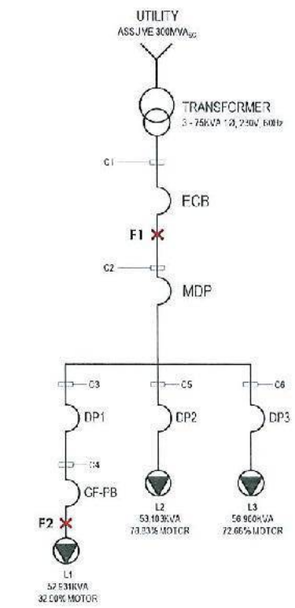
FARTHEST MOTOR LOAD (3F-PP CIRCUIT #7)
3 - 5.5mm^2 THHN Cu. WIRE /
EFF. Z AT 0.85PF = 1.1
L = 35m / I = 15A

VD = 1.732 x 35 x 15 x 1.1/305
VD = 3.28V ~ **1.453%**

TOTAL %VD OF THE SYSTEM:
$\%VD_{TOTAL}$ = **3.319%**

SHORT CIRCUIT ANALYSIS

SINGLE LINE DIAGRAM



BASE VALUES

KV_{BASE} = 0.230
MVA_{BASE} = 0.225
Z_{BASE} = 0.230^2/ 0.225
= 0.235 ohms
I_{BASE} = 0.225x1000 / 1.732x0.230
= 564.82 A

IMPEDANCE PER UNIT VALUES

$Z_{UTILITY}$ = 0.225/1000 = 0.000225 pu
Z_{TR} = 2.3/100 = 0.023 pu
Z_{C1} = 0.001606/0.235 = 0.00683 pu
Z_{C2} = 0.00289/0.235 = 0.01230 pu
Z_{C3} = 0.000727/0.235 = 0.003093 pu
Z_{C4} = 0.00121/0.235 = 0.00515 pu
Z_{C5} = 0.00169/0.235 = 0.00720 pu
Z_{C6} = 0.00242/0.235 = 0.01032 pu

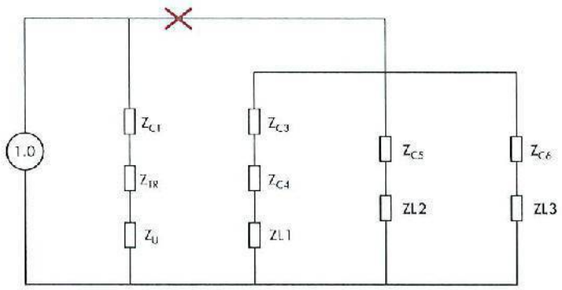
FOR MOTOR CONTRIBUTION TO SHORT CIRCUIT - MOTOR LOADS WILL BE TREATED AS A SINGLE LUMP LOAD AND IS 400% x RATED POWER.

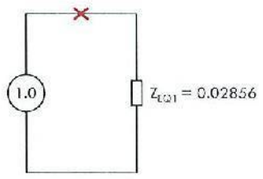
LUMP LOAD 1:
S = 52,931 x 4 x 0.3290 = 69,657 VA
Z = 230^2 / 69,657 = 0.7594
Zpu = 0.7594 / 0.235 = **3.23pu**

LUMP LOAD 2:
S = 53,103 x 4 x 0.7883 = 167,444 VA
Z = 230^2 / 167,444 = 0.3159
Zpu = 0.3159 / 0.235 = **1.344pu**

LUMP LOAD 3:
S = 56,960 x 4 x 0.7268 = 165,594 VA
Z = 230^2 / 165,594 = 0.3194
Zpu = 0.3194 / 0.235 = **1.359pu**

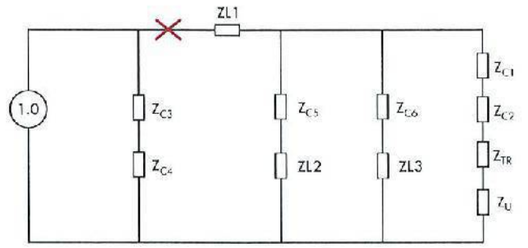
FOR FAULT 1

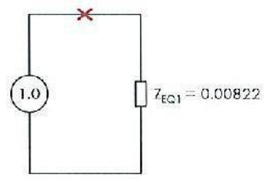




FOR FAULT 1
I_{F1} = 1.0 / 0.02856 x 564.82
= 19,776 A
SAY ~ 20 KAIC

FOR FAULT 2





FOR FAULT 1
I_{F1} = 1.0 / 0.00822 x 564.82
= 6,871A
SAY ~ 7 KAIC

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. MARK JOMELLE O. NAVIDAD ELECTRICAL ENGINEER, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2025	SHEET NO: E-15 PAGE NO: 65/100

LEGENDS	
⏀	UNIVERSAL CONVENIENCE OUTLET WITH GROUND
⏚	SPECIAL OUTLET (CIRCUIT BREAKER ENCLOSED IN A NEMA-3R)
	AIR-CONDITIONING UNIT (INDOOR UNIT)
	AIR-CONDITIONING UNIT (OUTDOOR UNIT)
MDP	MAIN DISTRIBUTION PANELBOARD
DP	DISTRIBUTION PANELBOARD
#-PB	FLOOR LEVEL - PANELBOARD
#-SLR	FLOOR LEVEL - SOLAR PANELBOARD
#-LP	FLOOR LEVEL - LIGHTING PANEL
#-PP	FLOOR LEVEL - POWER PANEL
#-HW	FLOOR LEVEL - HOT WORKS PANELBOARD
1 GF-PB	BRANCH CIRCUIT NUMBER; PANELBOARD NAME & LOCATION



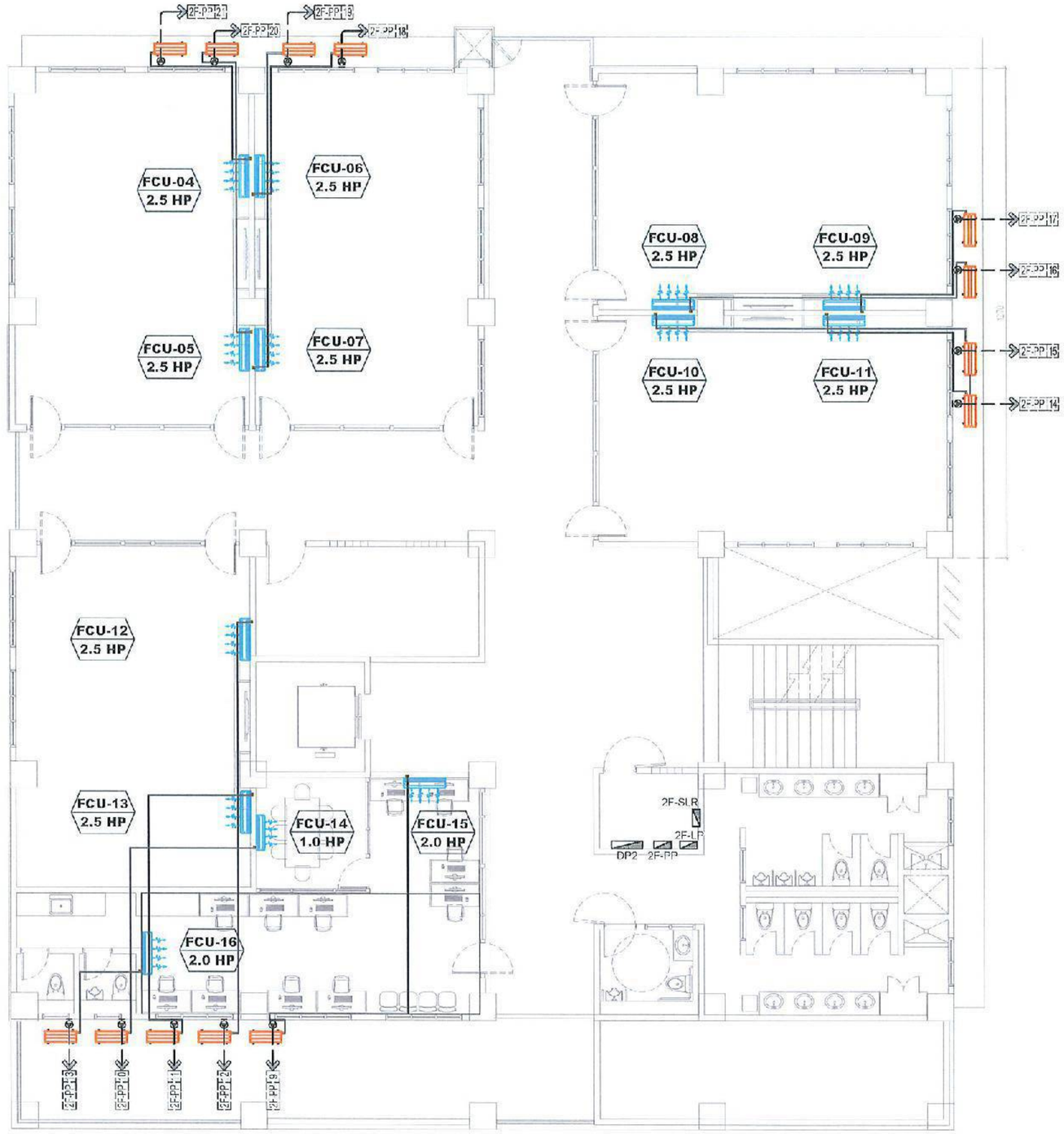
GROUND FLOOR ACU LAYOUT

SCALE 1 : 130 MTS

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, OSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: E-16 PAGE NO. 66/100

LEGENDS	
	UNIVERSAL CONVENIENCE OUTLET WITH GROUND
	SPECIAL OUTLET (CIRCUIT BREAKER ENCLOSED IN A NEMA-3R)
	AIR-CONDITIONING UNIT (INDOOR UNIT)
	AIR-CONDITIONING UNIT (OUTDOOR UNIT)
MDP	MAIN DISTRIBUTION PANELBOARD
DP	DISTRIBUTION PANELBOARD
#-PB	FLOOR LEVEL - PANELBOARD
#-SLR	FLOOR LEVEL - SOLAR PANELBOARD
#-LP	FLOOR LEVEL - LIGHTING PANEL
#-PP	FLOOR LEVEL - POWER PANEL
#-HW	FLOOR LEVEL - HOT WORKS PANELBOARD

1 GF-PB
BRANCH CIRCUIT NUMBER
PANELBOARD NAME & LOCATION

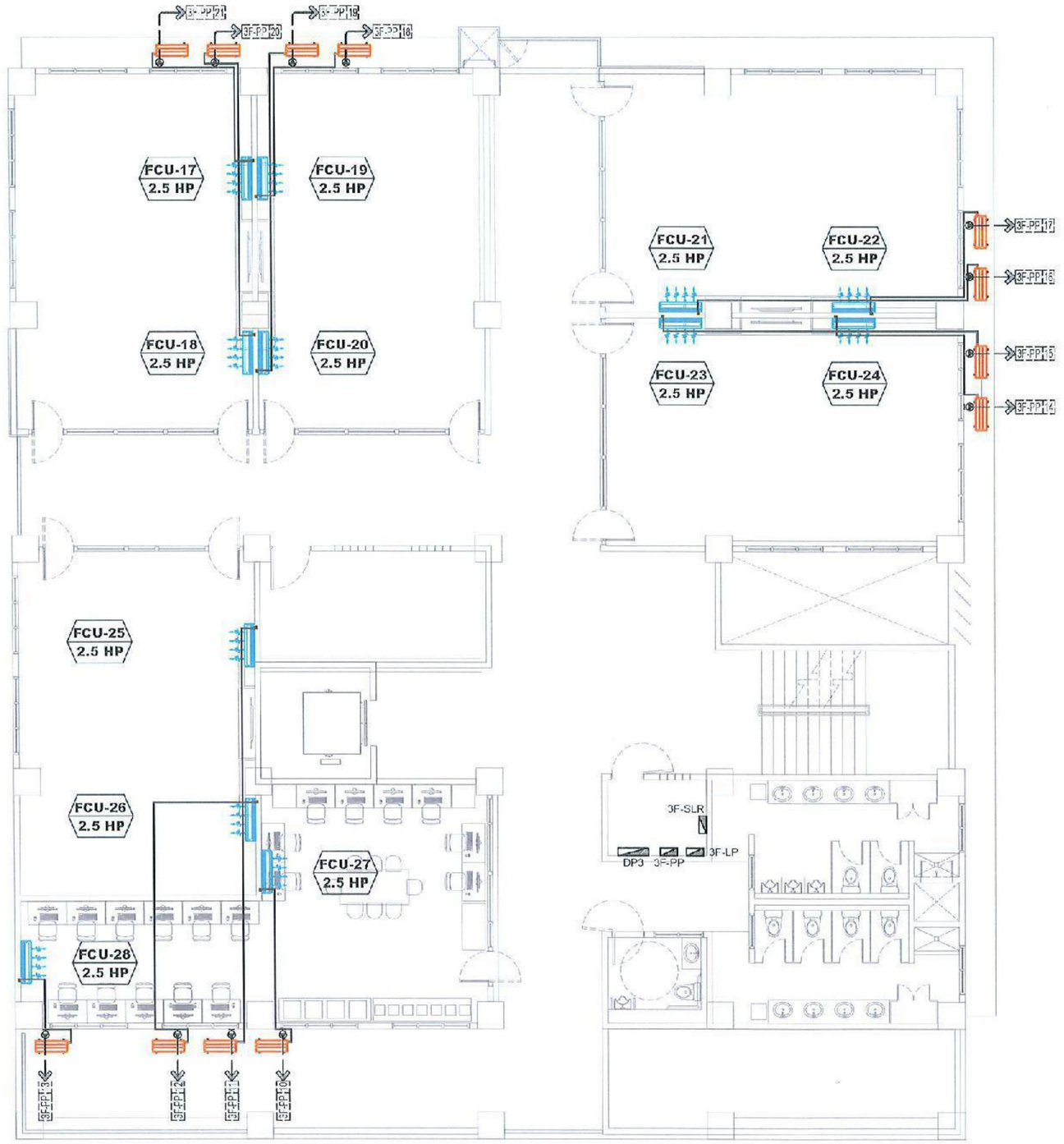


SECOND FLOOR ACU LAYOUT

SCALE 1 : 130 MTS

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, OSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: E-17 PAGE NO: 67/100

LEGENDS	
	UNIVERSAL CONVENIENCE OUTLET WITH GROUND
	SPECIAL OUTLET (CIRCUIT BREAKER ENCLOSED IN A NEMA-3R)
	AIR-CONDITIONING UNIT (INDOOR UNIT)
	AIR-CONDITIONING UNIT (OUTDOOR UNIT)
MDP	MAIN DISTRIBUTION PANELBOARD
DP	DISTRIBUTION PANELBOARD
#-PB	FLOOR LEVEL - PANELBOARD
#-SLR	FLOOR LEVEL - SOLAR PANELBOARD
#-LP	FLOOR LEVEL - LIGHTING PANEL
#-PP	FLOOR LEVEL - POWER PANEL
#-HW	FLOOR LEVEL - HOT WORKS PANELBOARD
1 3F-PB	BRANCH CIRCUIT NUMBER PANELBOARD NAME & LOCATION

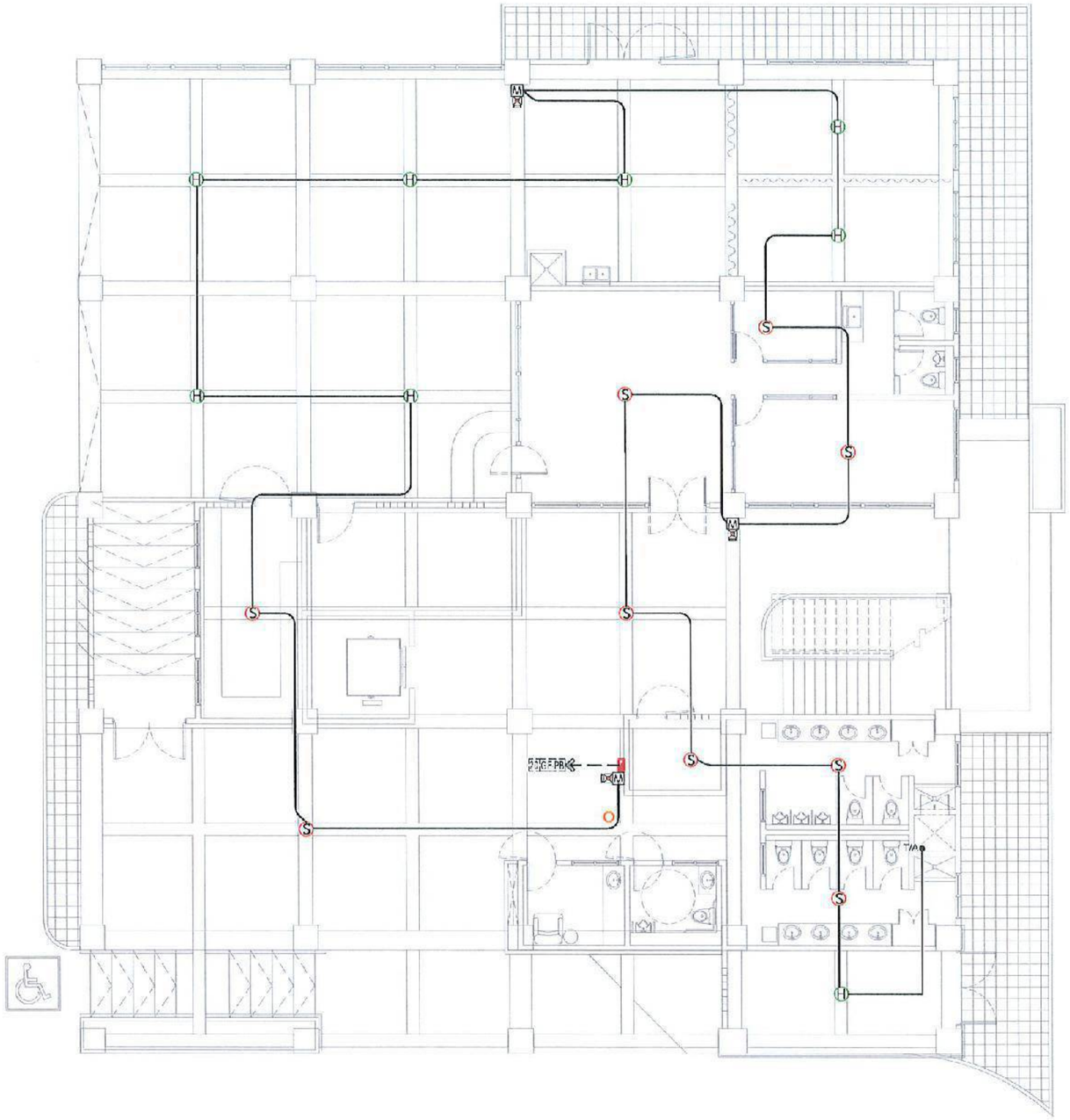


THIRD FLOOR ACU LAYOUT

SCALE 1 : 130 MTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)
PROJECT LOCATION:	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY
PREPARED BY:	ENGR. MARK JOMELLE C. NATIVIDAD, ELECTRICAL ENGINEER, DFOM-FDD
CHECKED BY:	AR. CHERRY L. FABIANES, HEAD, DFOM-FDD
CERTIFIED BY:	AR. ARLEN M. GUILB, DIRECTOR I, DFOM
REQUESTING OFFICE:	DR. LEO P. PIAO, DIRECTOR, CSET
RECOMMENDING APPROVAL:	DR. MARLON V. CAMIDO, VP FOR ADMINISTRATION
APPROVED:	DR. JASPER JAY N. MENDOZA, PRESIDENT
SHEET CONTENTS:	AS SHOWN
DATE:	2026
SHEET NO.	E-18
PAGE NO:	68/100



LEGEND

- (S) ADDRESSABLE SMOKE DETECTOR
- (H) ADDRESSABLE HEAT DETECTOR
- [M] ADDRESSABLE MANUAL CALL POINT
- STROBE HORN
- ADDRESSABLE FIRE ALARM CONTROL PANEL
- T/A TO ABOVE
- T/B TO BELOW
- F/A FROM ABOVE
- F/B FROM BELOW

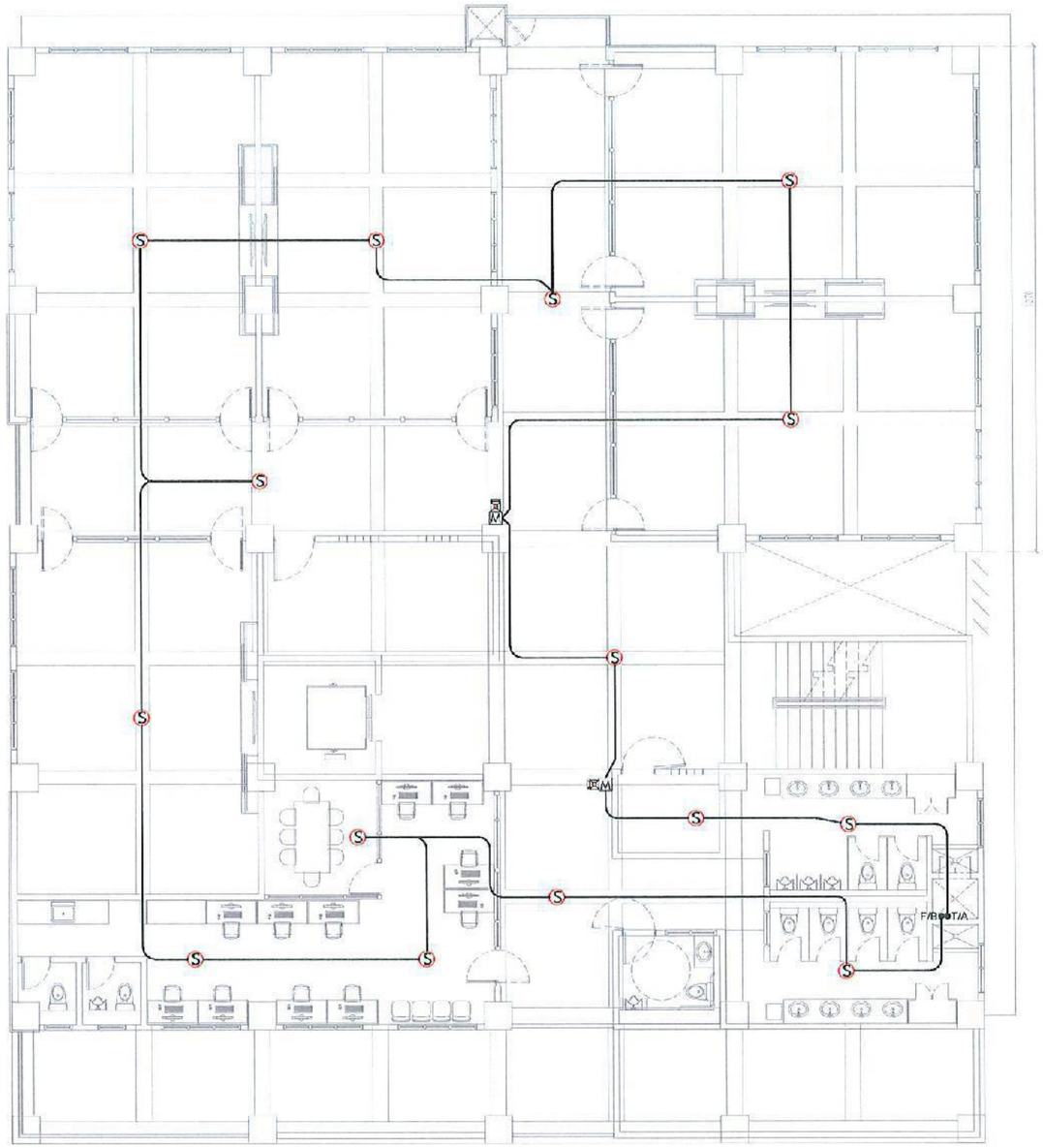
PROPOSED FDAS LAYOUT

GROUND FLOOR

SCALE: 1:150 MTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: ENGR. MISAEL HEIGH MIEL V. CABANSAG, ELECTRICAL ENGINEER, OFDM-MIU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: E-19
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 69/100



LEGEND

(S)	ADDRESSABLE SMOKE DETECTOR
(H)	ADDRESSABLE HEAT DETECTOR
M	ADDRESSABLE MANUAL CALL POINT
	STROBE HORN
	ADDRESSABLE FIRE ALARM CONTROL PANEL
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW

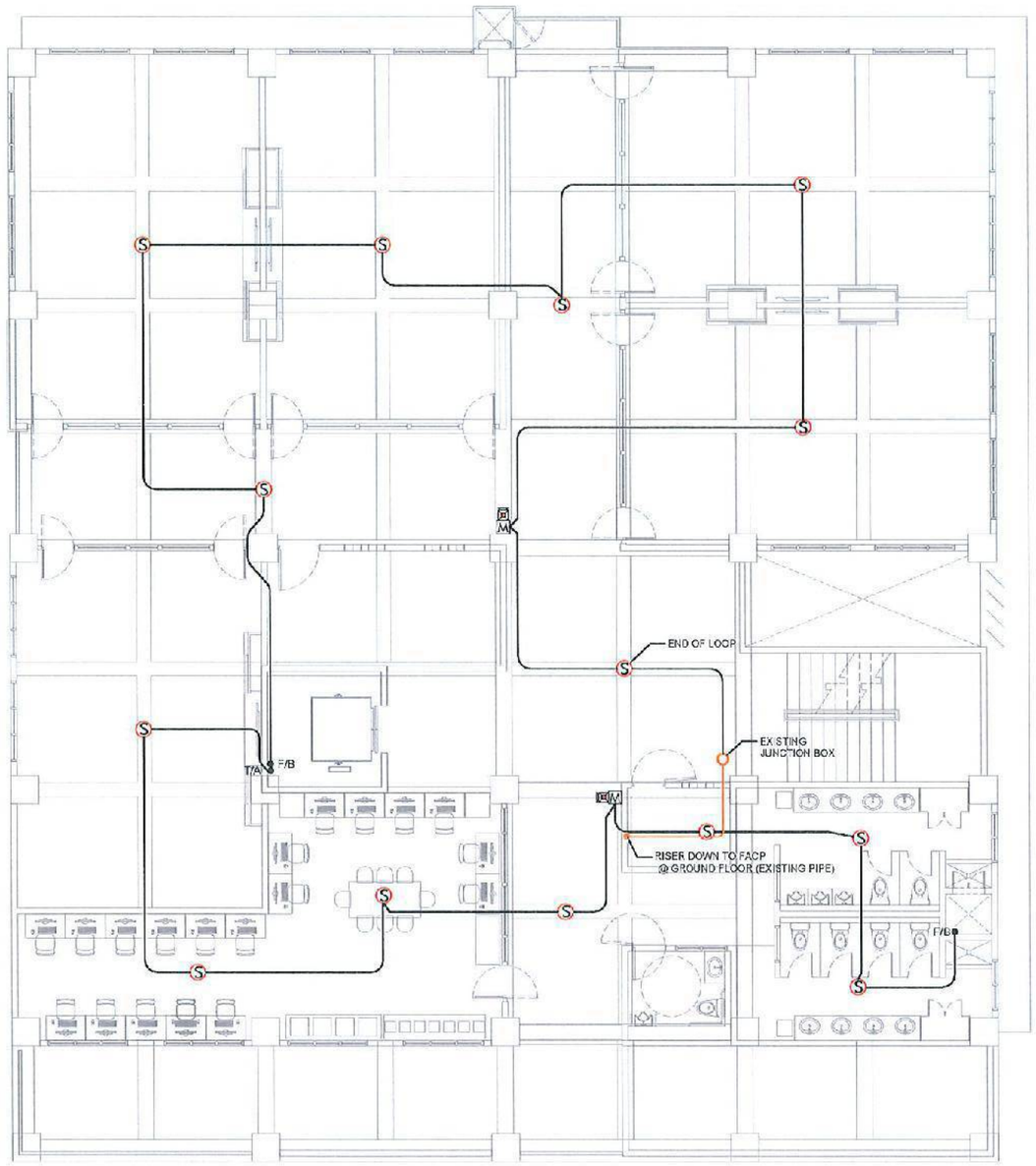
PROPOSED FDAS LAYOUT

SECOND FLOOR

SCALE: 1:150 MTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: ENGR. MISAEL REIGH MIEL V. CABANSAG, ELECTRICAL ENGINEER, OFDM-MIU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: E-20
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO.: 70/100



LEGEND

(S)	ADDRESSABLE SMOKE DETECTOR
(H)	ADDRESSABLE HEAT DETECTOR
M	ADDRESSABLE MANUAL CALL POINT
	STROBE HORN
	ADDRESSABLE FIRE ALARM CONTROL PANEL
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW

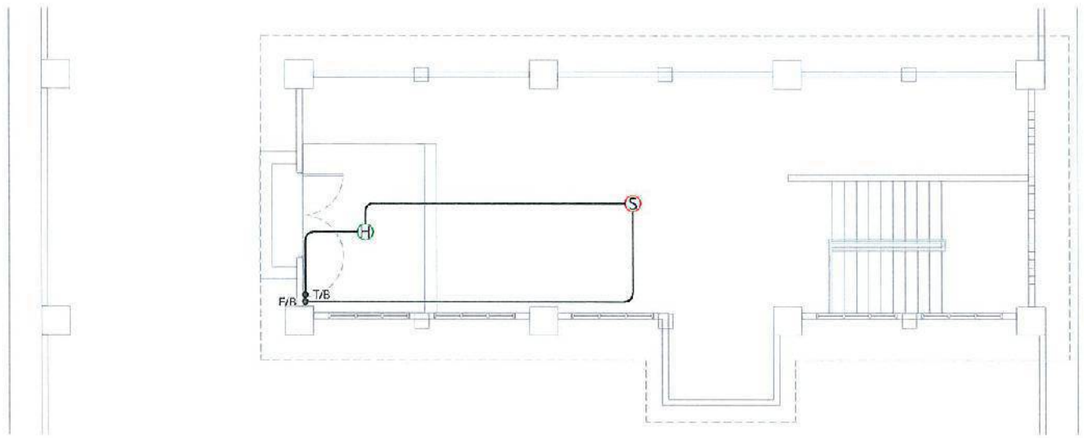
PROPOSED FDAS LAYOUT

THIRD FLOOR

SCALE: 1:150 MTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: ENGR. MISAEL REIGH MIEL V. CABANSAG, ELECTRICAL ENGINEER, OFDM-MIU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARIEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARILOU V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: E-21
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 71/100



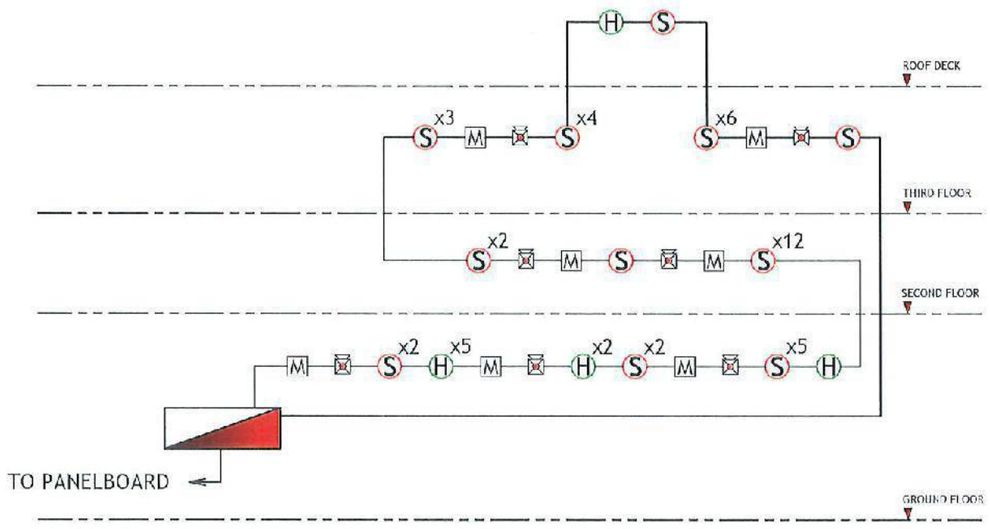
PROPOSED FDAS LAYOUT

ROOF DECK

SCALE: 1:150 MTS

LEGEND

(S)	ADDRESSABLE SMOKE DETECTOR
(H)	ADDRESSABLE HEAT DETECTOR
M	ADDRESSABLE MANUAL CALL POINT
	STROBE HORN
	ADDRESSABLE FIRE ALARM CONTROL PANEL
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW



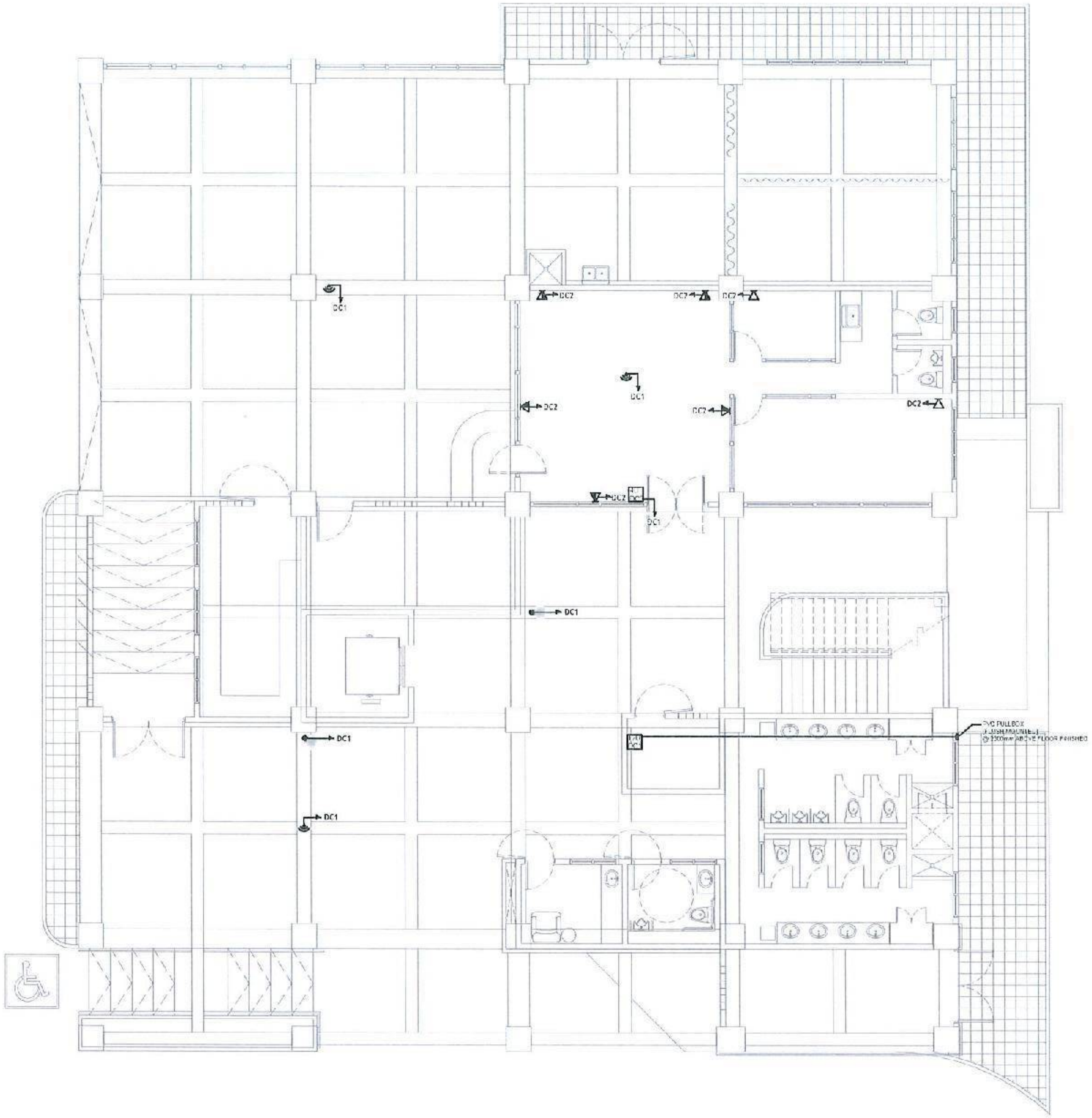
FDAS RISER DIAGRAM

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: ENGR. MISAEL REIGH MIEL V. CABANSAG, ELECTRICAL ENGINEER, CFDM-MLO	CHECKED BY: AR. CHERRY E. TABIANES, HEAD, CFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, CFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: E-22
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 72/100

NOTE:

1. PROVIDE DUPLEX UNIVERSAL OUTLET FOR DATA CABINETS. TAP TO THE NEAREST OUTLET.
2. MOUNTING HEIGHT OF THE DATA CABINET SHALL BE 2200mm ABOVE FLOOR FINISHED.
3. ALL CCTV LAYOUT SHALL BE PROVIDED FOR FUTURE CCTV INSTALLATION.
4. ALL LAYOUT SHALL BE PAINTED SAME AS THE CEILING PAINTING.
5. USE EXISTING RISER PIPES WITH PULLBOXES PROVIDED FOR RISER CABLES.



LEGEND

(symbol)	WEATHERPROOF JUNCTION BOX FOR CCTV (PROVISION)
(symbol)	ACCESS POINT WITH WEATHERPROOF JUNCTION BOX
(symbol)	1-PORT DATA OUTLET
(symbol)	2-PORT DATA OUTLET
(symbol)	2-PORT FLOOR MOUNTED DATA OUTLET
12U DC1	DATA CABINET
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW

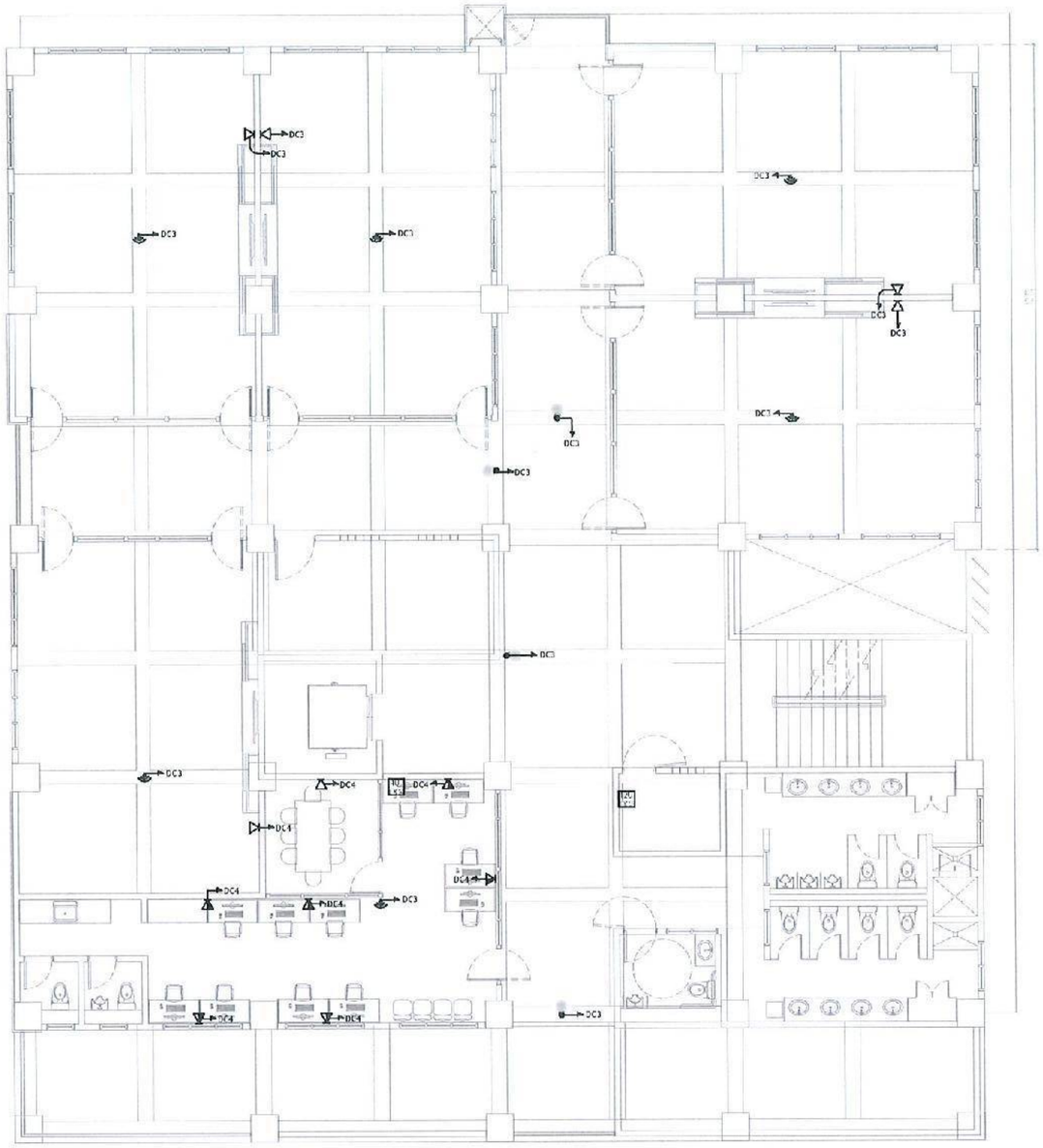
PROPOSED AUXILIARY LAYOUT

GROUND FLOOR

SCALE: 1:150 MTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	ENGR. MISAEL REICH MIEL V. CABANSAG ELECTRICAL ENGINEER, OFDM-MU	AR. CHERRY E. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. LEO P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT	AS SHOWN	E-23
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2020	PAGE NO: 73/100



LEGEND

- WEATHERPROOF JUNCTION BOX FOR CCTV (PROVISION)
- ACCESS POINT WITH WEATHERPROOF JUNCTION BOX
- 1-PORT DATA OUTLET
- 2-PORT DATA OUTLET
- 2-PORT FLOOR MOUNTED DATA OUTLET
- 12U DC1 — DATA CABINET

T/A TO ABOVE
T/B TO BELOW
F/A FROM ABOVE
F/B FROM BELOW

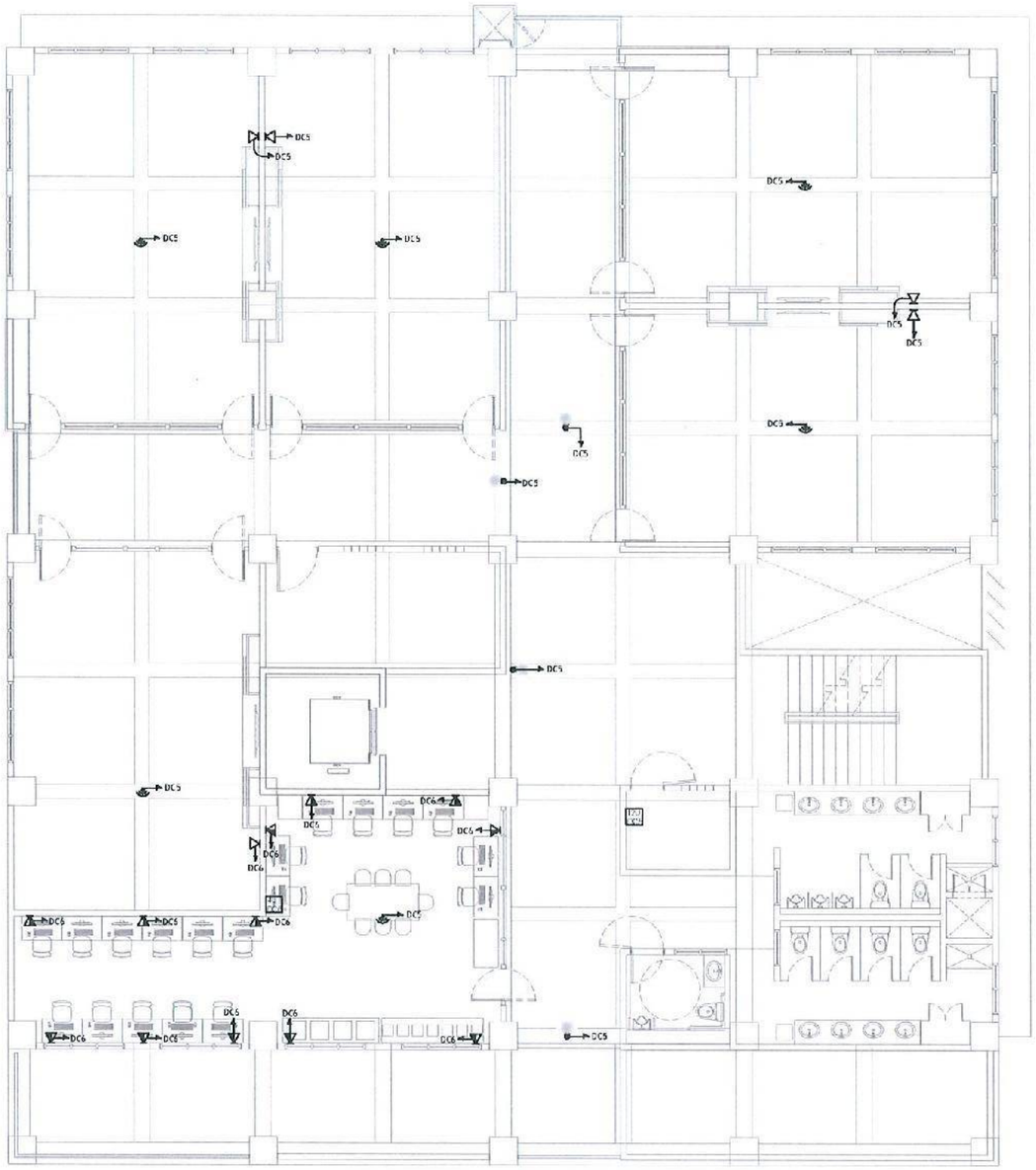
PROPOSED AUXILIARY LAYOUT

SECOND FLOOR

SCALE: 1:150 MTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: ENGR. MISAEL REIGH MIEL V. CABANSAG, ELECTRICAL ENGINEER, OFDM-MO	CHECKED BY: AR. CHERRYL FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO.: E-24
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO.: 74/100



LEGEND

- WEATHERPROOF JUNCTION BOX FOR CCTV (PROVISION)
- ACCESS POINT WITH WEATHERPROOF JUNCTION BOX
- 1-PORT DATA OUTLET
- 2-PORT DATA OUTLET
- 2-PORT FLOOR MOUNTED DATA OUTLET
- 12U DC1 — DATA CABINET

T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW

PROPOSED AUXILIARY LAYOUT

THIRD FLOOR

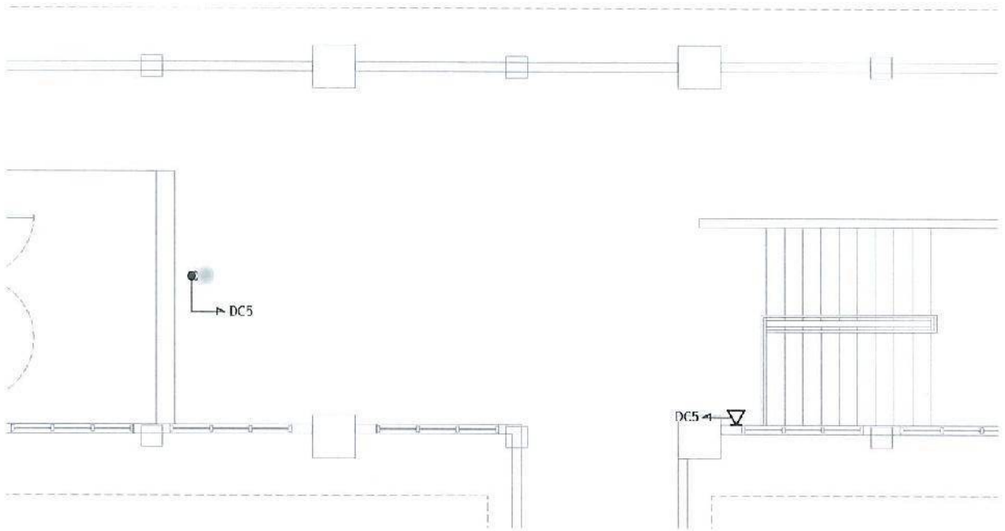
SCALE: 1:150 MTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)
PROJECT LOCATION:	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:
	ENGR. MISAEL REIGH MIEL V. CABANSAG	AR. CHERRY P. FABIANES	AR. ARLEN M. GUIEB	DR. LEO P. PIAO	DR. MARLON V. GAMIDO	DR. JASPER JAY N. MENDOZA
	ELECTRICAL ENGINEER, OFDM-MIU	HEAD, OFDM-PDU	DIRECTOR, OFDM	DIRECTOR, CSET	VP FOR ADMINISTRATION	PRESIDENT

SHEET CONTENTS:	AS SHOWN
SHEET NO:	E-25
PAGE NO:	75/100
DATE:	2026



PROPOSED AUXILIARY LAYOUT

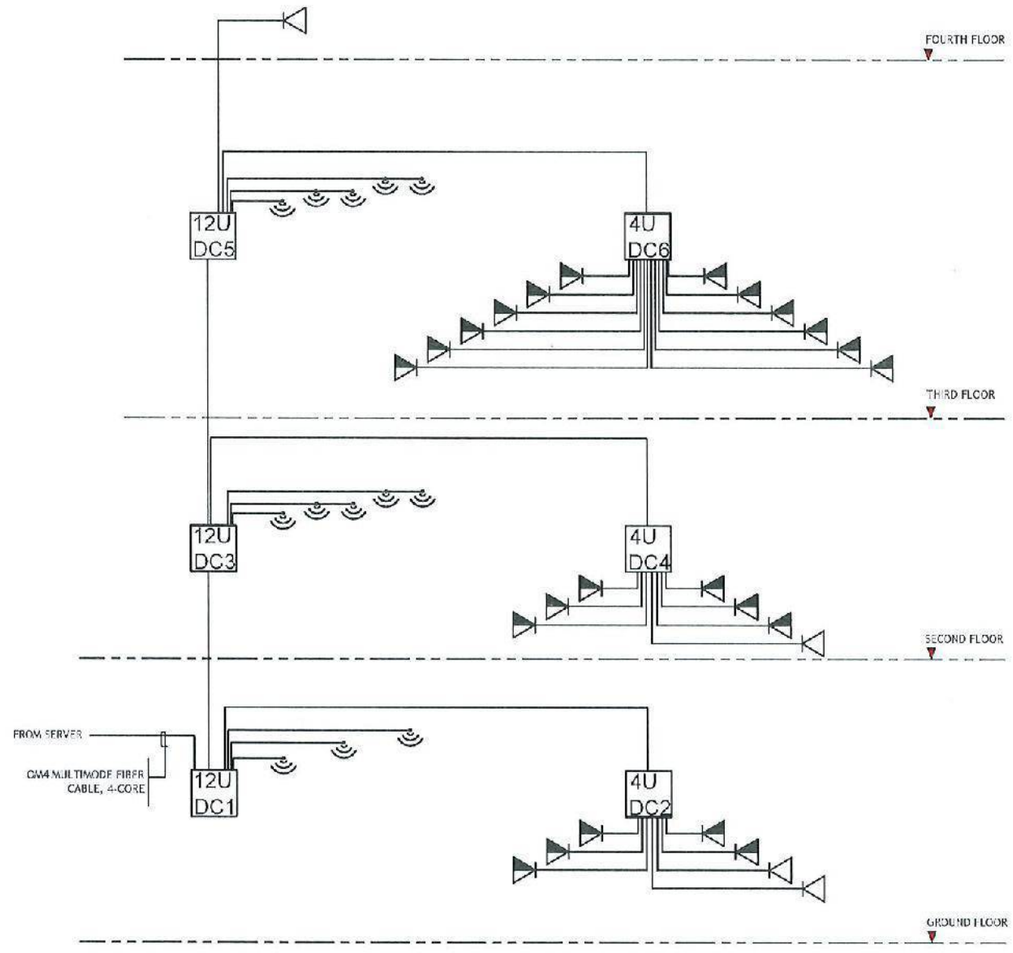
ROOF DECK

SCALE: 1:150 MTS

LEGEND

- WEATHERPROOF JUNCTION BOX FOR CCTV (PROVISION)
- ACCESS POINT WITH WEATHERPROOF JUNCTION BOX
- 1-PORT DATA OUTLET
- 2-PORT DATA OUTLET
- 2-PORT FLOOR MOUNTED DATA OUTLET
- 12U DC1 — DATA CABINET
- T/A — TO ABOVE
- T/B — TO BELOW
- F/A — FROM ABOVE
- F/B — FROM BELOW

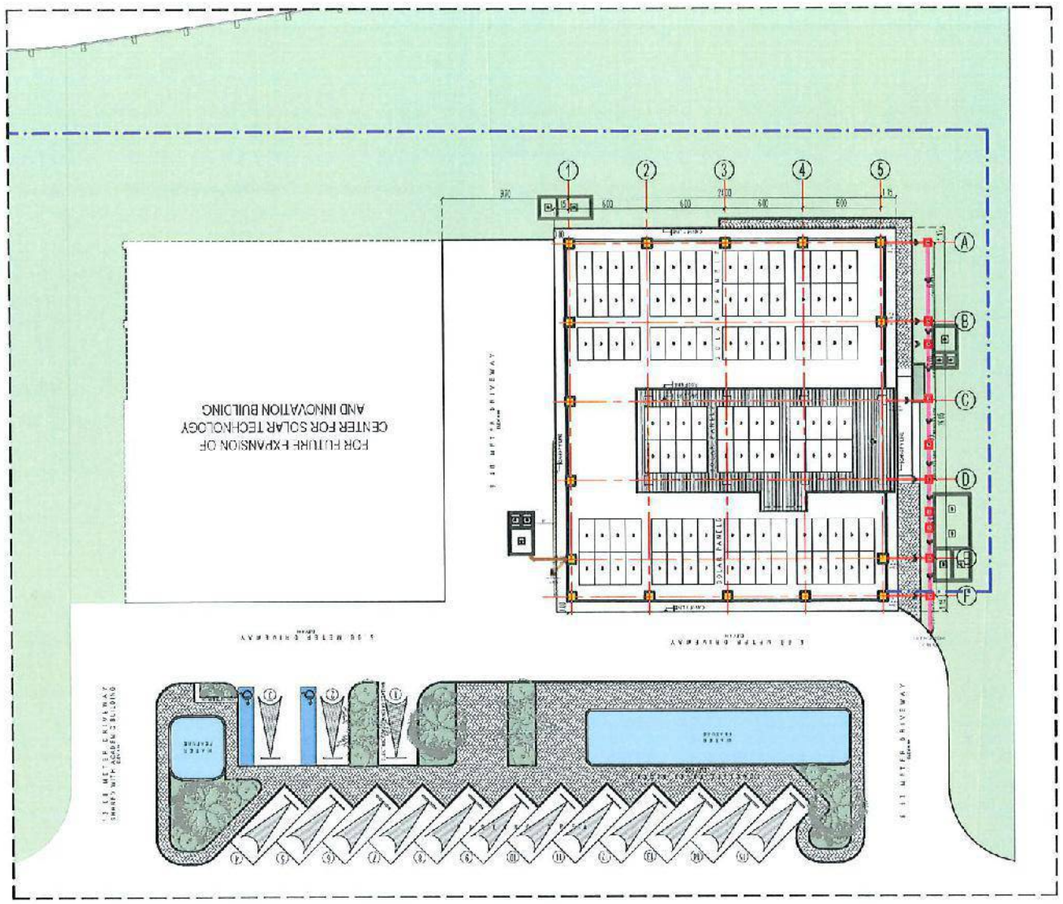
DATA CABINET COMPONENTS	
DATA CABINET 1 (12U)	ENTERPRISE ROUTER, HARDWARE CONTROLLER, 2 x 24-PORT MANAGED PoE+ SWITCH with 10G SFP+ OPTICAL MODULE, 24-PORT CAT6 PATCH PANEL
DATA CABINET 2 (4U)	16-PORT GIGABIT UNMANAGED SWITCH, 24-PORT CAT7 PATCH PANEL
DATA CABINET 3 (12U)	24-PORT MANAGED PoE+ SWITCH with 10G SFP+ OPTICAL MODULE, 10-PORT MANAGED SWITCH WITH 2X10G SFP+, 24-PORT CAT6 PATCH PANEL
DATA CABINET 4 (4U)	16-PORT GIGABIT UNMANAGED SWITCH, 24-PORT CAT7 PATCH PANEL
DATA CABINET 5 (12U)	24-PORT MANAGED PoE+ SWITCH with 10G SFP+ OPTICAL MODULE, 10-PORT MANAGED SWITCH WITH 2X10G SFP+, 24-PORT CAT6 PATCH PANEL
DATA CABINET 6 (12U)	24-PORT GIGABIT UNMANAGED SWITCH, 24-PORT CAT7 PATCH PANEL



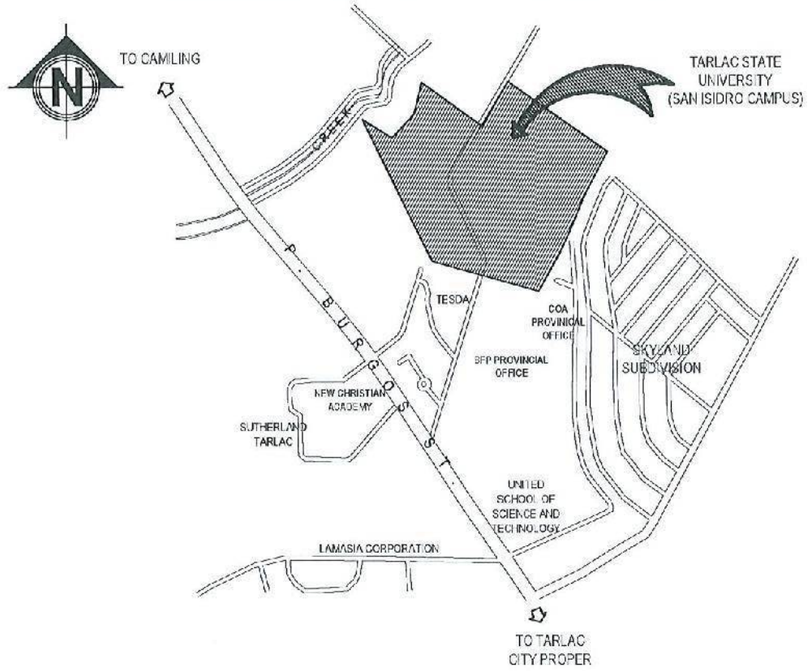
STRUCTURED CABLING RISER DIAGRAM

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: ENGR. MIKAEL REIGH MIEL V. CABANSAG, ELECTRICAL ENGINEER, CFDM-MIU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, CFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: E-26
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 76/100



SITE DEVELOPMENT PLAN



VICINITY MAP

SP	SOIL PIPE	FD	FLOOR DRAIN		6" Ø PVC S1000 WASTE PIPES		63 MM Ø HDPE PIPE
WP	WASTE PIPE	RD	ROOF DRAIN		4" Ø PVC S1000 SOIL/WASTE PIPES		75 MM Ø PPR PIPE PN20
VP	VENT PIPE	URI	URINAL		3" Ø PVC S1000 WASTE PIPES		50 MM Ø PPR PIPE PN20
SS	SOIL STACK	WC	WATER CLOSET		2" Ø PVC S1000 WASTE PIPES		32 MM Ø PPR PIPE PN20
VS	VENT STACK	LAV	LAVATORY		4" Ø PVC S1000 VENT PIPES		20 MM Ø PPR PIPE PN20
VTW	VENT THRU WALL	GV	GATE VALVE		2" Ø PVC S1000 VENT PIPES		
SVTR	STACK VENT THRU ROOF	CV	CHECK VALVE		8" Ø PVC S1000 STORM DRAIN PIPES		
FCO	FLOOR CLEANOUT	KS	KITCHEN SINK		3" Ø PVC S1000 STORM DRAIN PIPES		

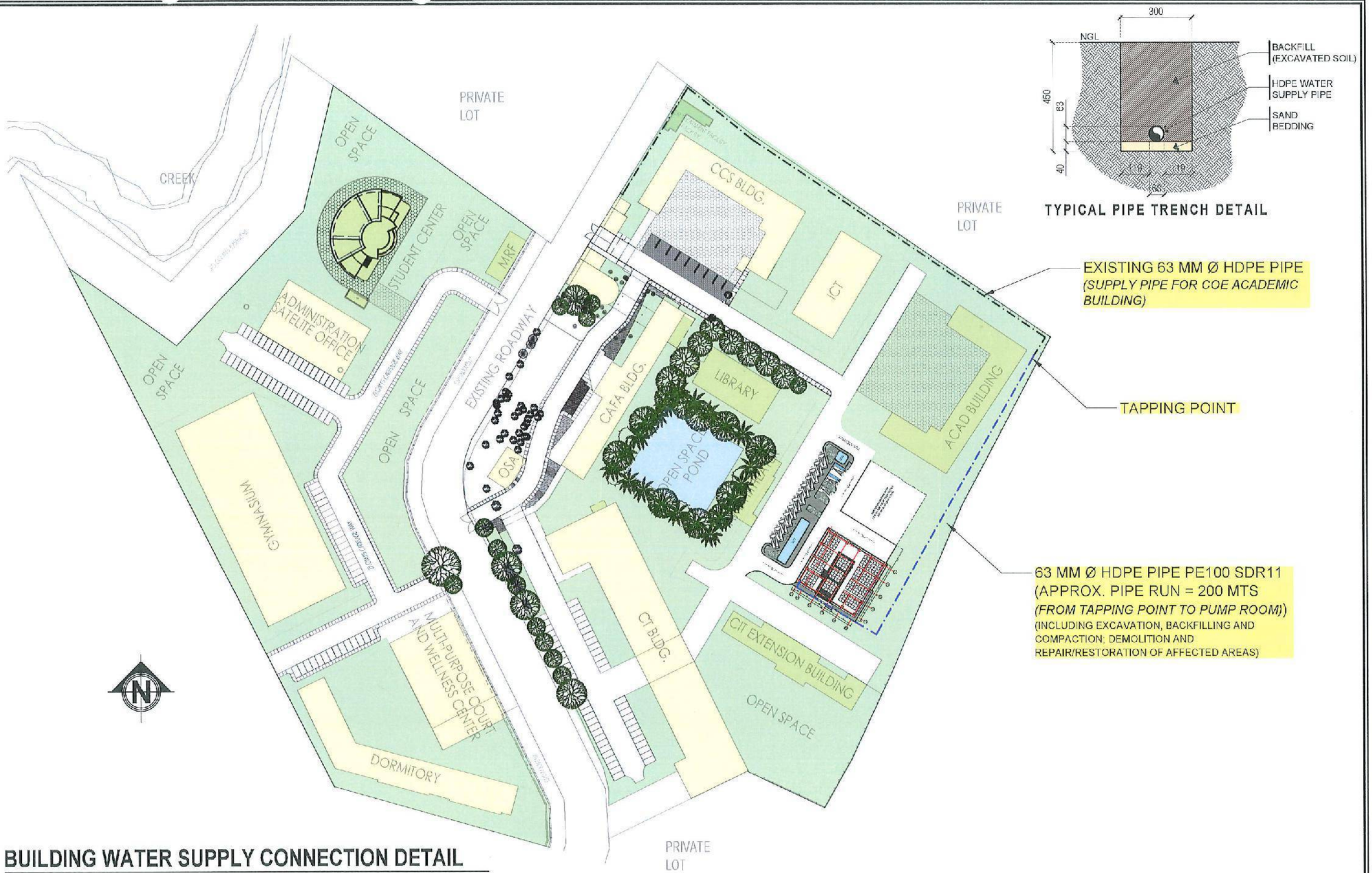
GENERAL NOTES

1. GRADE OF THE HORIZONTAL PIPING:
   RUN ALL HORIZONTAL PIPING IN PERFECT ALIGNMENT AT THE UNIFORM GRADE OF NOT LESS THAN (2%).
2. CHANGES IN DIRECTION:
   ALL CHANGES IN DIRECTION SHALL BE MADE BY THE APPROPRIATE USE OF 45° WYE, LONG SWEEP QUATER BEND, SIXTH, EIGHT, OR SIXTEENTH BENDS, WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL. A SINGLE 1/8 BEND COMBINATION MAY BE USED ON WASTE, LINES, TEES AND CROSSES MAY BE USED ON VENT PIPES.
3. PROHIBITED FITTINGS:
   NO DOUBLE TEE BRANCHES SHALL BE USED ON HORIZONTAL SOIL OR WASTE LINES, DRILLING & TRAPPINGS OF HOUSE DRAINS, WASTE OR VENT PIPES AND USE OF SADDLE HUB AND BENDS ARE PROHIBITED.
4. SLEEVES:
   PROVIDE THE PIPE SLEEVES AT WALLS, COLUMNS OR SLAB ON SIZED BIGGER THAN THE ACTUAL SIZE OF THE PIPE PASSING THROUGH WALLS OR UNDER SLABS TO PROTECT PIPES FROM BREAKAGE.
5. PIPES CLEANOUTS:
   CLEANOUTS ARE REQUIRED EVERY CHANGE IN HORIZONTAL DIRECTION EXCEEDING TWENTY - TWO AND HALF DEGREES (22 1/2°).
6. DEAD ENDS AVOIDED:
   IN THE INTALLATIONS OF PLUMING SYSTEM DEAD ENDS SHALL BE AVOIDED.
7. ALL PLUMBING WORKS:
   ALL PLUMBING WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE NATIONAL PLUMBING CODE, REQUIREMENTS OF THE PLUMBING INSPECTION OFFICE AND PERTINENT PROVISIONS OF THE NATIONAL BUILIDING CODE.

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)
PROJECT LOCATION:	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
AR. PAULO A. DOCTOR ARCHITECT/MTPP, CFDM-PDU	AR. CHERRY L. FABIANES HEAD, CFDM-PDU	AR. ARIEN M. GUIEB DIRECTOR, CFDM	DR. LEO P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT	AS SHOWN DATE: 2026	P-01 PAGE NO: 77/100



TYPICAL PIPE TRENCH DETAIL

BUILDING WATER SUPPLY CONNECTION DETAIL

NTS

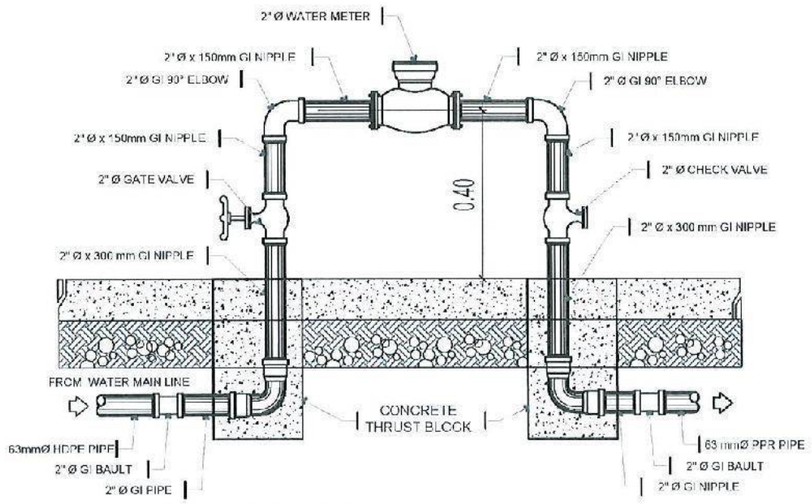
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	AR. PAUL C. A. DOCTOR, ARCHITECT/PMO-CFDM-PDU	AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	AR. ARLEN M. GUIEB, DIRECTOR, OFDM	DR. LEO P. PIAO, DIRECTOR, CSET	DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA, PRESIDENT	AS SHOWN	P-02
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2025	PAGE NO: 78/100

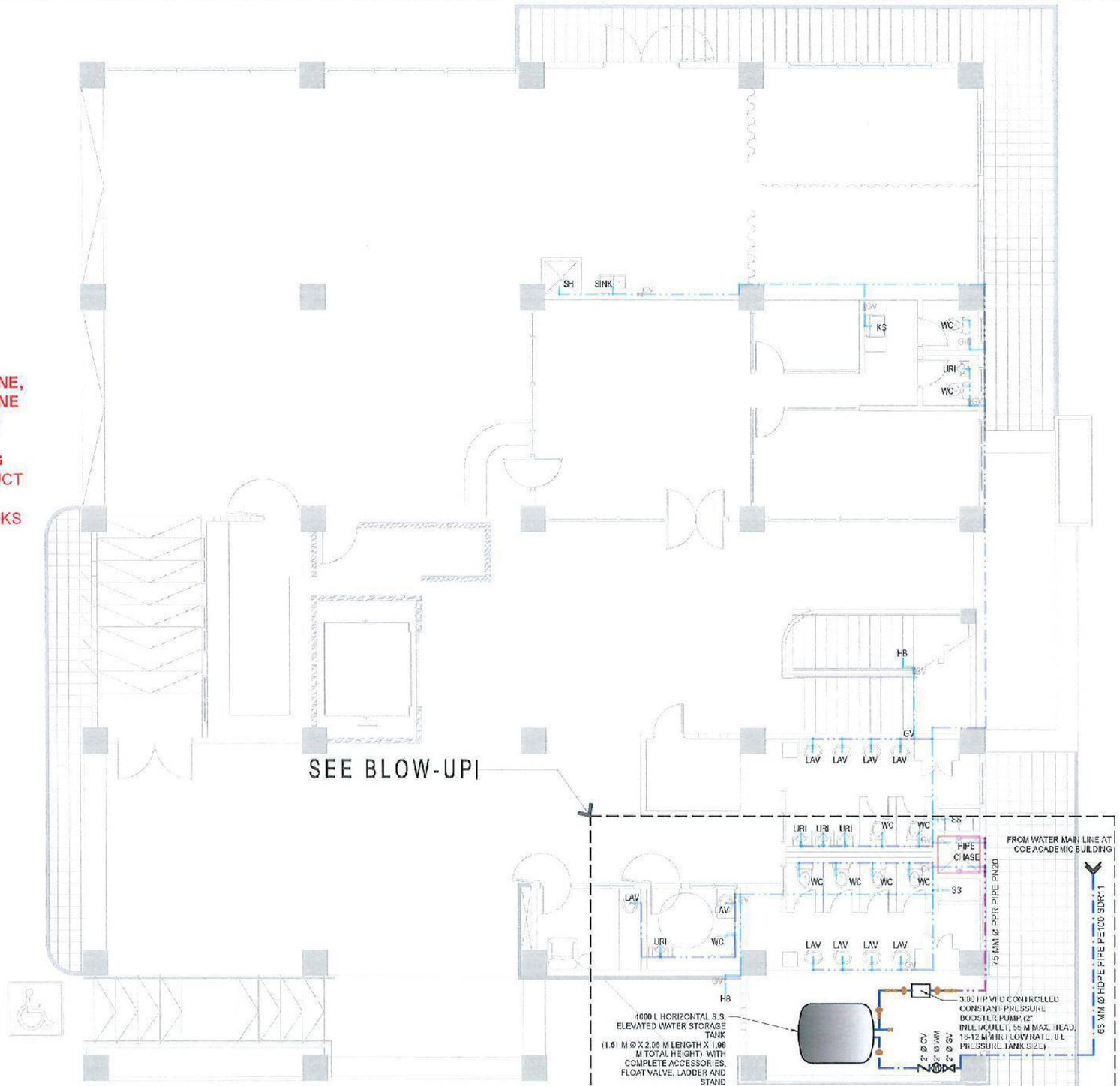
LEGEND	
SCOPE OF WORKS	
	63 MM Ø HDPE PIPE
	75 MM Ø PPR PIPE PN20
	50 MM Ø PPR PIPE PN20
	32 MM Ø PPR PIPE PN20
	20 MM Ø PPR PIPE PN20
INSTALLED	
	63 MM Ø HDPE PIPE
	75 MM Ø PPR PIPE PN20
	50 MM Ø PPR PIPE PN20
	32 MM Ø PPR PIPE PN20
	20 MM Ø PPR PIPE PN20

NOTE:

- WORK INCLUDES THE COMPLETION OF THE **SANITARY, VENT, WATERLINE, AND STORM DRAIN** PIPING SYSTEM, INCLUDING **MAIN WATER SUPPLY LINE**
- INCLUDES **INSTALLATION** OF **ALL PLUMBING FIXTURES, PUMPS, WATER TANKS, AND ITS ACCESSORIES**
- CONDUCT LEAK AND FLOW TEST PRIOR TO INSTALLATION OF **PLUMBING FIXTURES** MAKING SURE PIPE INTEGRITY IS NOT COMPROMISED; CONDUCT NECESSARY REPAIRS IF NEEDED
- INCLUDE PAINTING OF EXPOSED PIPES IN THE SCOPE OF PAINTING WORKS



BUILDING SUB-METER DETAIL



GROUND FLOOR
WATERLINE LAYOUT

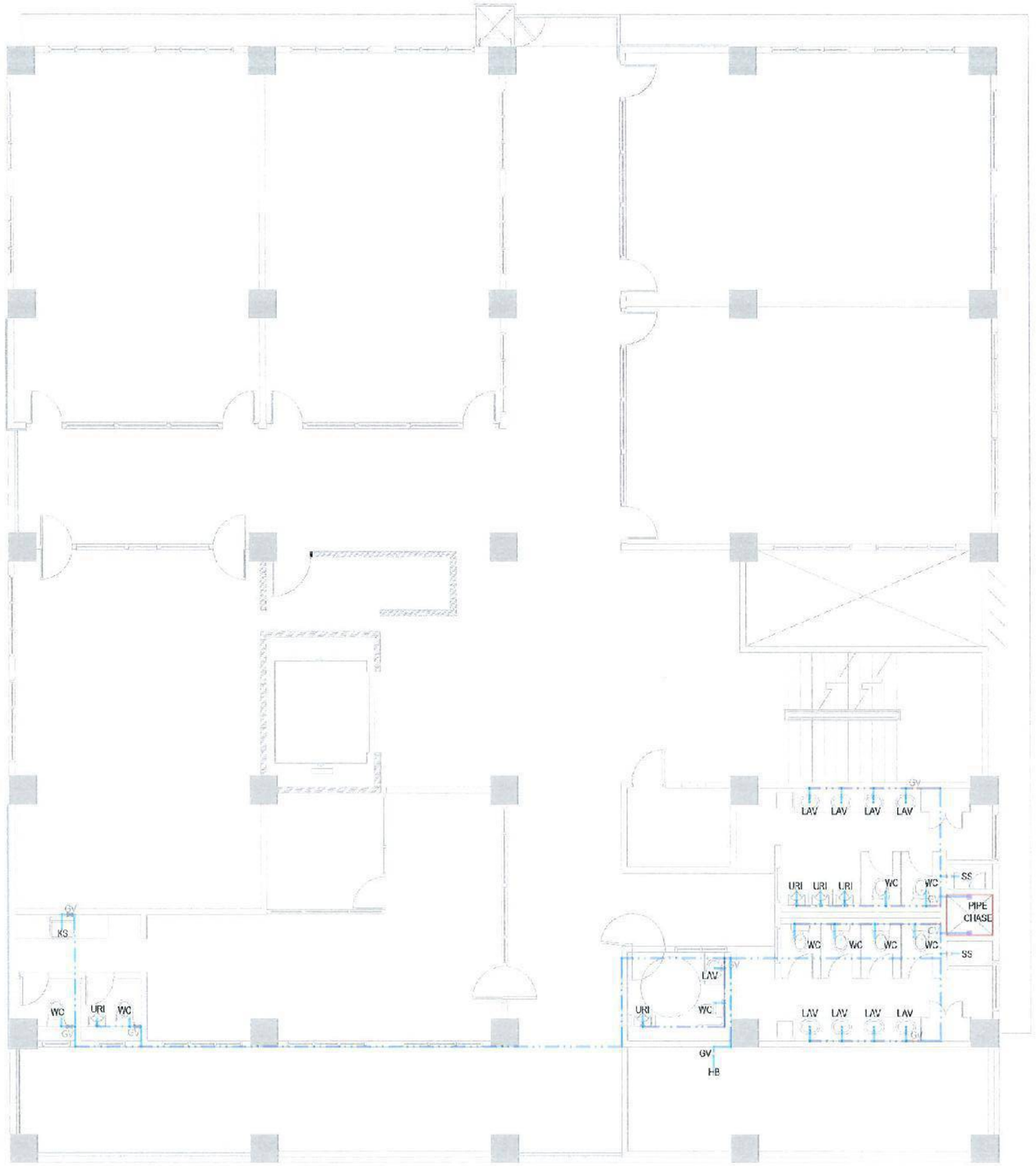
SCALE 1:125MTS

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. PAUL O.A. DOCTOR ARCHITECT/MNSA, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: P-03 PAGE NO: 79/100

LEGEND	
SCOPE OF WORKS	
	63 MM Ø HDPE PIPE
	75 MM Ø PPR PIPE PN20
	50 MM Ø PPR PIPE PN20
	32 MM Ø PPR PIPE PN20
	20 MM Ø PPR PIPE PN20
INSTALLED	
	63 MM Ø HDPE PIPE
	75 MM Ø PPR PIPE PN20
	50 MM Ø PPR PIPE PN20
	32 MM Ø PPR PIPE PN20
	20 MM Ø PPR PIPE PN20

NOTE:

- WORK INCLUDES THE COMPLETION OF THE **SANITARY, VENT, WATERLINE, AND STORM DRAIN** PIPING SYSTEM, INCLUDING **MAIN WATER SUPPLY LINE**
- INCLUDES **INSTALLATION** OF **ALL PLUMBING FIXTURES, PUMPS, WATER TANKS, AND ITS ACCESSORIES**
- CONDUCT LEAK AND FLOW TEST PRIOR TO INSTALLATION OF **PLUMBING FIXTURES** MAKING SURE PIPE INTEGRITY IS NOT COMPROMISED; CONDUCT NECESSARY REPAIRS IF NEEDED
- INCLUDE PAINTING OF EXPOSED PIPES IN THE SCOPE OF PAINTING WORKS



SECOND FLOOR
WATERLINE LAYOUT

SCALE 1:175MTS

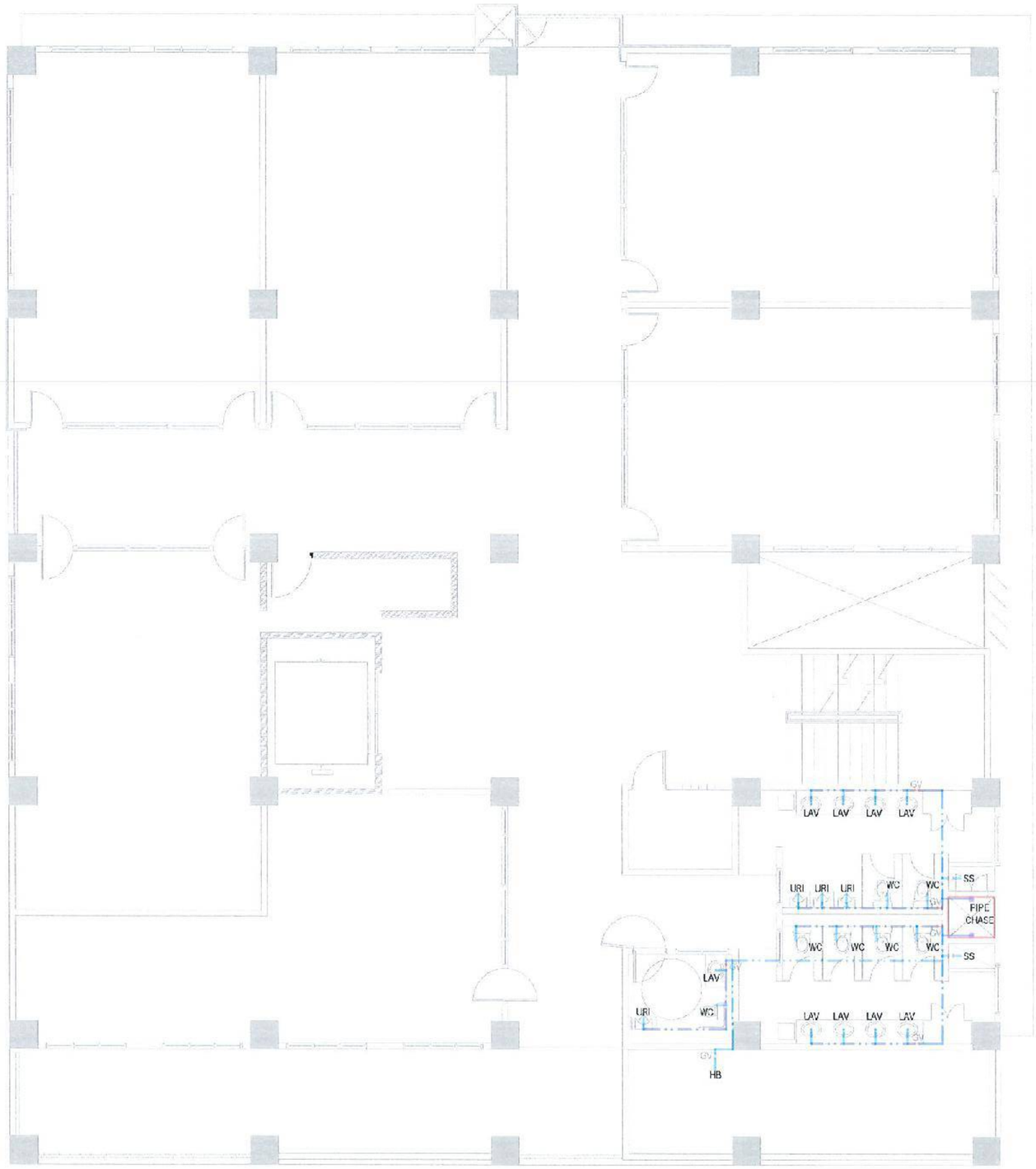
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	AR. PAULO A. DOCTOR, ARCHITECT-URAP, OFDM-PDU	AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	AR. ARLEN M. GUIEB, DIRECTOR, OFDM	DR. LEO P. PIAO, DIRECTOR, CSET	DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA, PRESIDENT	AS SHOWN	P-04
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 80/100

LEGEND	
SCOPE OF WORKS	
	63 MM Ø HDPE PIPE
	75 MM Ø PPR PIPE PN20
	50 MM Ø PPR PIPE PN20
	32 MM Ø PPR PIPE PN20
	20 MM Ø PPR PIPE PN20
INSTALLED	
	63 MM Ø HDPE PIPE
	75 MM Ø PPR PIPE PN20
	50 MM Ø PPR PIPE PN20
	32 MM Ø PPR PIPE PN20
	20 MM Ø PPR PIPE PN20

NOTE:

- WORK INCLUDES THE COMPLETION OF THE **SANITARY, VENT, WATERLINE, AND STORM DRAIN** PIPING SYSTEM, INCLUDING **MAIN WATER SUPPLY LINE**
- INCLUDES **INSTALLATION** OF **ALL PLUMBING FIXTURES, PUMPS, WATER TANKS, AND ITS ACCESSORIES**
- CONDUCT LEAK AND FLOW TEST PRIOR TO INSTALLATION OF **PLUMBING FIXTURES** MAKING SURE PIPE INTEGRITY IS NOT COMPROMISED; CONDUCT NECESSARY REPAIRS IF NEEDED
- INCLUDE PAINTING OF EXPOSED PIPES IN THE SCOPE OF PAINTING WORKS



THIRD FLOOR
WATERLINE LAYOUT

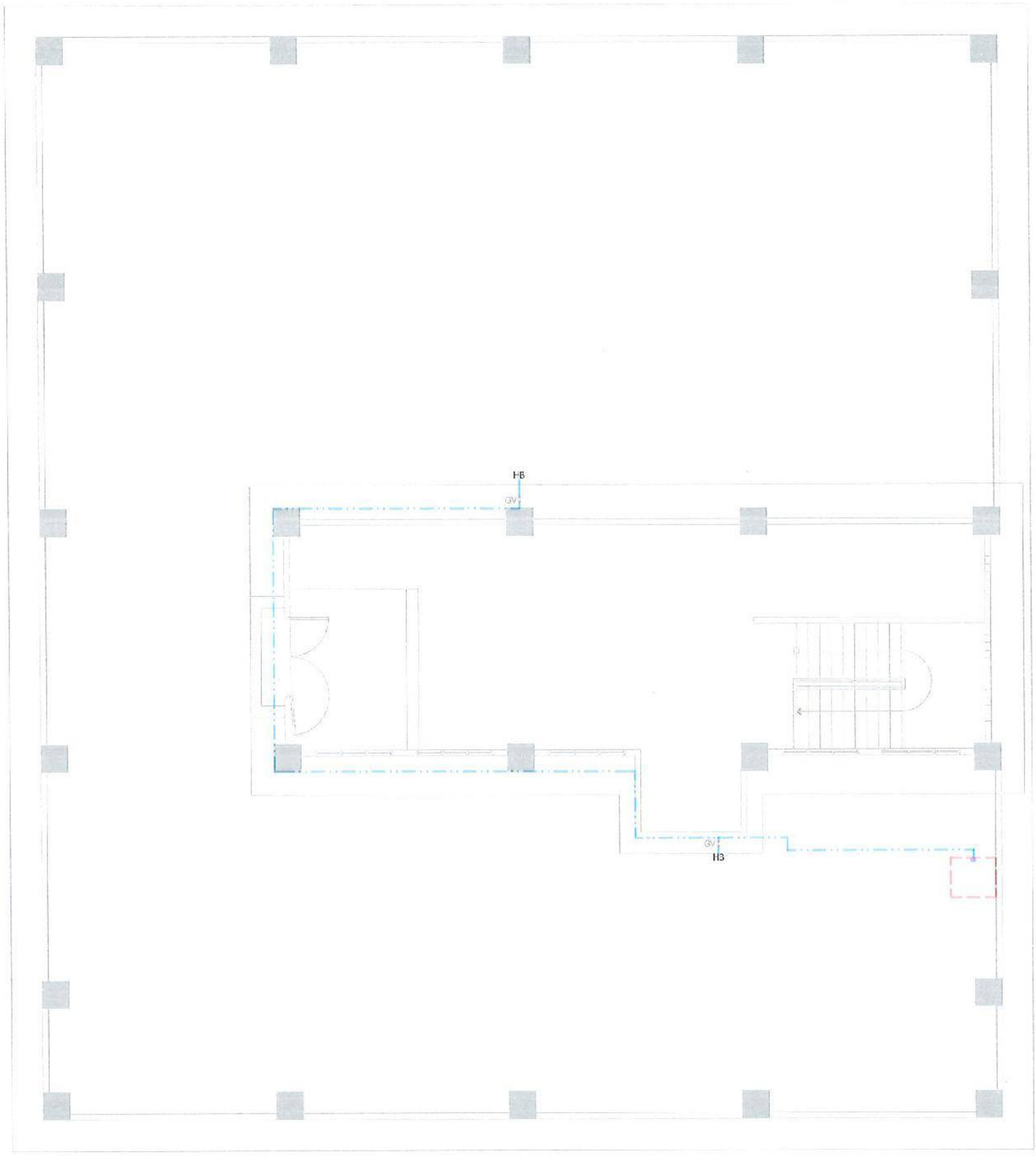
SCALE 1:125MTS

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. PAULO A. DOCTOR ARCHITECT/MMP, CFDM-PDU	CHECKED BY: AR. CHERRYL FABIANES HEAD, CFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO. P-05 PAGE NO: 81/100

LEGEND	
SCOPE OF WORKS	
	63 MM Ø HDPE PIPE
	75 MM Ø PPR PIPE PN20
	50 MM Ø PPR PIPE PN20
	32 MM Ø PPR PIPE PN20
	20 MM Ø PPR PIPE PN20
INSTALLED	
	63 MM Ø HDPE PIPE
	75 MM Ø PPR PIPE PN20
	50 MM Ø PPR PIPE PN20
	32 MM Ø PPR PIPE PN20
	20 MM Ø PPR PIPE PN20

NOTE:

- WORK INCLUDES THE COMPLETION OF THE **SANITARY, VENT, WATERLINE, AND STORM DRAIN** PIPING SYSTEM, INCLUDING **MAIN WATER SUPPLY LINE**
- INCLUDES **INSTALLATION** OF **ALL PLUMBING FIXTURES, PUMPS, WATER TANKS, AND ITS ACCESSORIES**
- CONDUCT LEAK AND FLOW TEST PRIOR TO INSTALLATION OF **PLUMBING FIXTURES** MAKING SURE PIPE INTEGRITY IS NOT COMPROMISED; CONDUCT NECESSARY REPAIRS IF NEEDED
- INCLUDE PAINTING OF EXPOSED PIPES IN THE SCOPE OF PAINTING WORKS



ROOF DECK

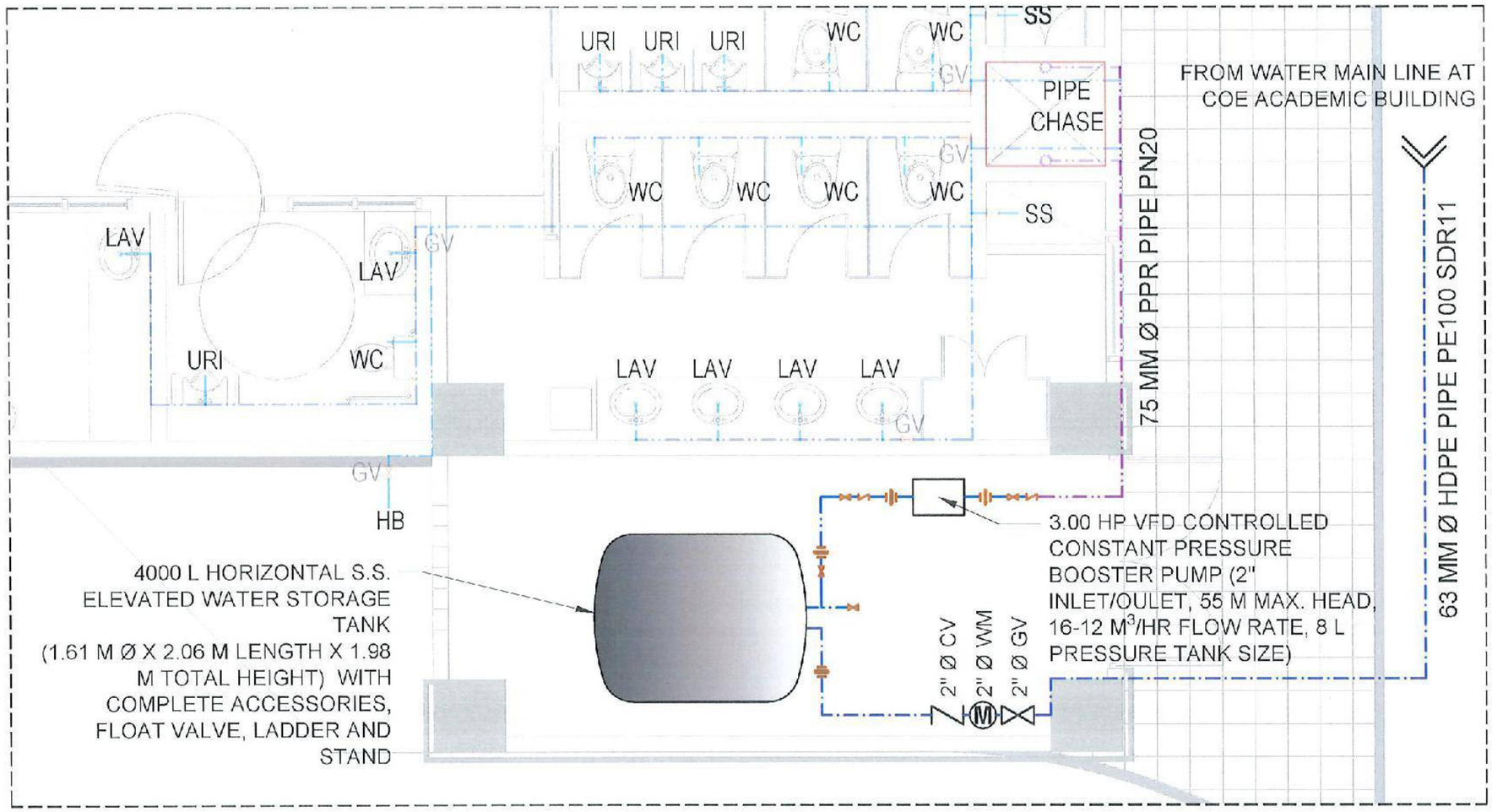
WATERLINE LAYOUT

SCALE 1:125MTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	AR. PAUL O. A. DOCTOR ARCHITECT/RMP, OFDM-PDO	AR. CHERRYL L. FABIANES HEAD, OFDM-PDO	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. LEO P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT	AS SHOWN	P-06
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 82/100

LEGEND	
SCOPE OF WORKS	
	63 MM Ø HDPE PIPE
	75 MM Ø PPR PIPE PN20
	50 MM Ø PPR PIPE PN20
	32 MM Ø PPR PIPE PN20
	20 MM Ø PPR PIPE PN20
INSTALLED	
	63 MM Ø HDPE PIPE
	75 MM Ø PPR PIPE PN20
	50 MM Ø PPR PIPE PN20
	32 MM Ø PPR PIPE PN20
	20 MM Ø PPR PIPE PN20



NOTE:

- WORK INCLUDES THE COMPLETION OF THE **SANITARY, VENT, WATERLINE, AND STORM DRAIN** PIPING SYSTEM, INCLUDING **MAIN WATER SUPPLY LINE**
- INCLUDES **INSTALLATION** OF **ALL PLUMBING FIXTURES, PUMPS, WATER TANKS, AND ITS ACCESSORIES**
- CONDUCT LEAK AND FLOW TEST PRIOR TO INSTALLATION OF **PLUMBING FIXTURES** MAKING SURE PIPE INTEGRITY IS NOT COMPROMISED; CONDUCT NECESSARY REPAIRS IF NEEDED
- INCLUDE PAINTING OF EXPOSED PIPES IN THE SCOPE OF PAINTING WORKS

GROUND FLOOR (BLOW-UP PLAN)

WATERLINE LAYOUT

SCALE 1:50MTS

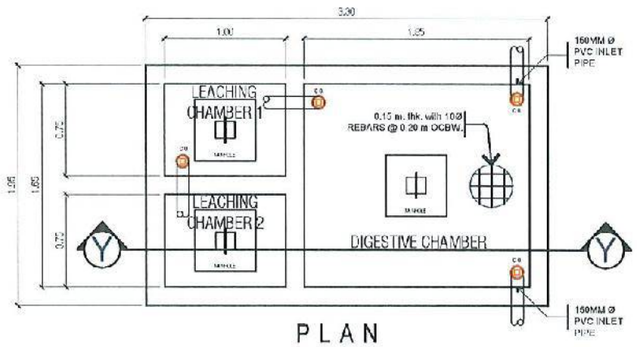
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	AR. PAULO A. DOCTOR, ARCHITECT/MAP, OFDM-PDU	AR. CHERRY L. FABIANES, HEAD, OFDM PDU	AR. ARLEN M. GUIEB, DIRECTOR, OFDM	AR. T.C.F. PIAO, DIRECTOR, CSET	DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA, PRESIDENT	AS SHOWN	P-07
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 83/100

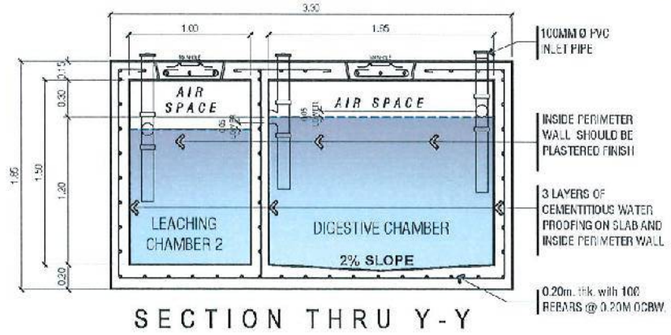
LEGEND			
SCOPE OF WORKS		INSTALLED	
	6" Ø PVC S1000 WASTE PIPES		6" Ø PVC S1000 WASTE PIPES
	4" Ø PVC S1000 SOIL/WASTE PIPES		4" Ø PVC S1000 SOIL/WASTE PIPES
	3" Ø PVC S1000 WASTE PIPES		3" Ø PVC S1000 WASTE PIPES
	2" Ø PVC S1000 WASTE PIPES		2" Ø PVC S1000 WASTE PIPES
	3" Ø PVC S1000 VENT PIPES		3" Ø PVC S1000 VENT PIPES
	2" Ø PVC S1000 VENT PIPES		2" Ø PVC S1000 VENT PIPES
	6" Ø PVC S1000 STORM DRAIN PIPES		6" Ø PVC S1000 STORM DRAIN PIPES
	4" Ø PVC S1000 STORM DRAIN PIPES		4" Ø PVC S1000 STORM DRAIN PIPES

NOTE:

- WORK INCLUDES THE COMPLETION OF THE **SANITARY, VENT, WATERLINE, AND STORM DRAIN** PIPING SYSTEM, INCLUDING **MAIN WATER SUPPLY LINE**
- INCLUDES **INSTALLATION** OF **ALL PLUMBING FIXTURES, PUMPS, WATER TANKS, AND ITS ACCESSORIES**
- CONDUCT LEAK AND FLOW TEST PRIOR TO INSTALLATION OF **PLUMBING FIXTURES** MAKING SURE PIPE INTEGRITY IS NOT COMPROMISED; CONDUCT NECESSARY REPAIRS IF NEEDED
- INCLUDE PAINTING OF EXPOSED PIPES IN THE SCOPE OF PAINTING WORKS



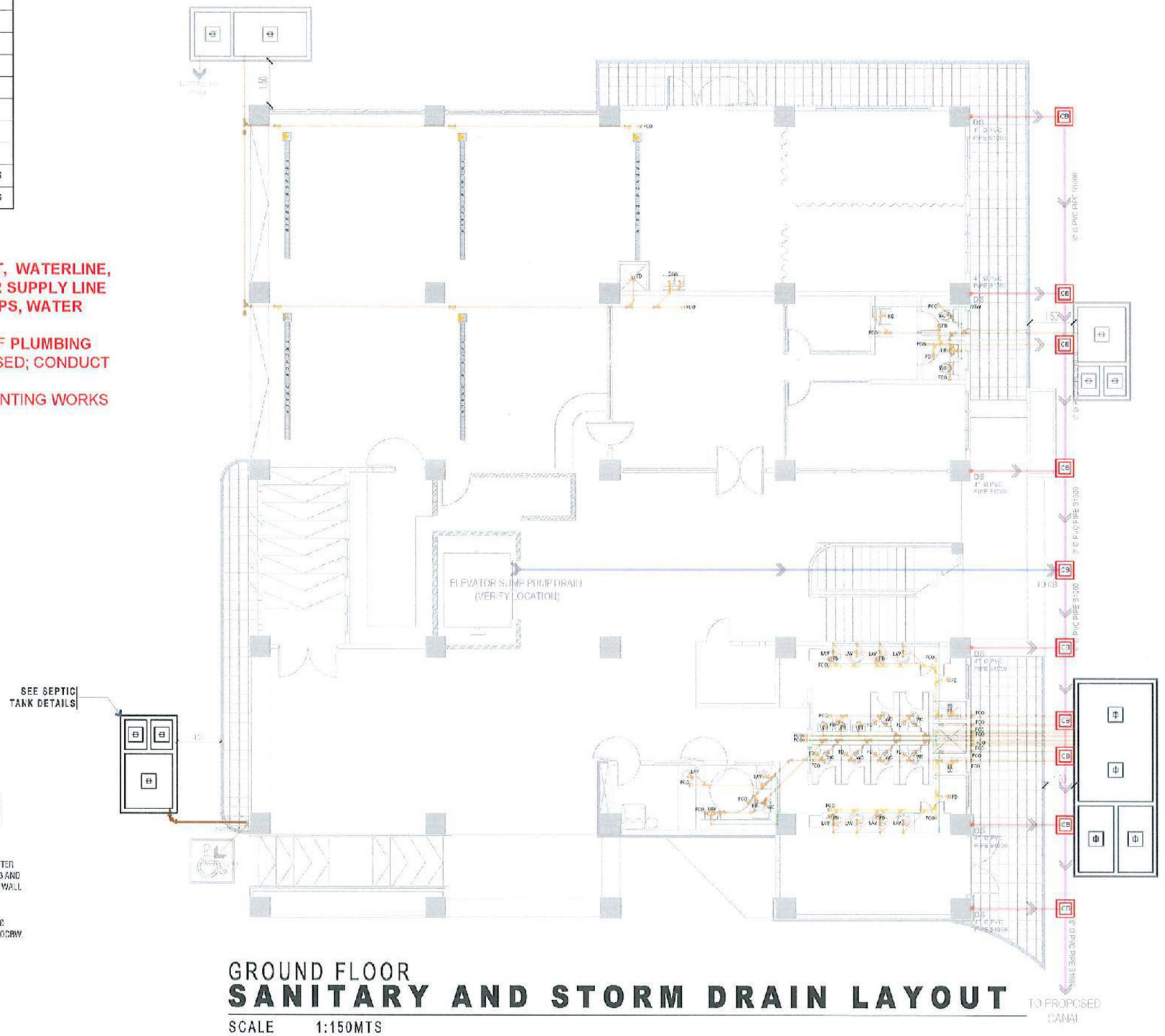
PLAN



SECTION THRU Y-Y

SEPTIC TANK DETAILS

1:50 M



GROUND FLOOR

SANITARY AND STORM DRAIN LAYOUT

SCALE 1:150MTS

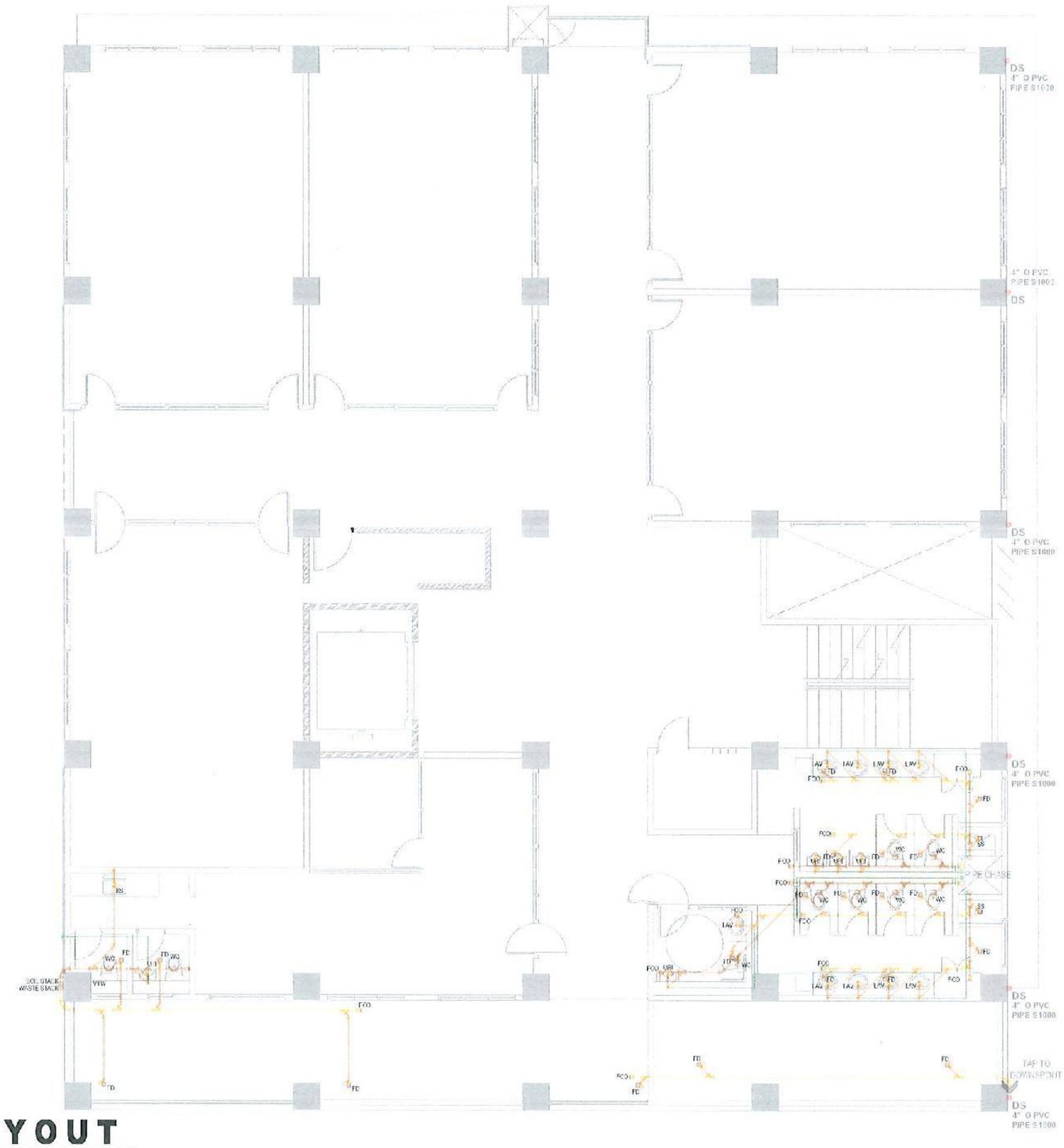
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL	APPROVED:	SHEET CONTENTS:	SHEET NO.
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	AR. PAUL D. A. DOCTOR, ARCHITECT/MNP, OFDM-PDU	AR. CHERRY L. FABIANES, HEAD, OFDM-FDU	AR. ARLEN M. GUIEB, DIRECTOR, OFDM	DR. LEO P. PIAO, DIRECTOR, CSET	DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA, PRESIDENT	AS SHOWN	P-08
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 84/100

LEGEND			
SCOPE OF WORKS		INSTALLED	
	6" Ø PVC S1000 WASTE PIPES		6" Ø PVC S1000 WASTE PIPES
	4" Ø PVC S1000 SOIL/WASTE PIPES		4" Ø PVC S1000 SOIL/WASTE PIPES
	3" Ø PVC S1000 WASTE PIPES		3" Ø PVC S1000 WASTE PIPES
	2" Ø PVC S1000 WASTE PIPES		2" Ø PVC S1000 WASTE PIPES
	3" Ø PVC S1000 VENT PIPES		3" Ø PVC S1000 VENT PIPES
	2" Ø PVC S1000 VENT PIPES		2" Ø PVC S1000 VENT PIPES
	6" Ø PVC S1000 STORM DRAIN PIPES		6" Ø PVC S1000 STORM DRAIN PIPES
	4" Ø PVC S1000 STORM DRAIN PIPES		4" Ø PVC S1000 STORM DRAIN PIPES

NOTE:

- WORK INCLUDES THE COMPLETION OF THE **SANITARY, VENT, WATERLINE, AND STORM DRAIN** PIPING SYSTEM, INCLUDING **MAIN WATER SUPPLY LINE**
- INCLUDES **INSTALLATION** OF **ALL PLUMBING FIXTURES, PUMPS, WATER TANKS, AND ITS ACCESSORIES**
- CONDUCT LEAK AND FLOW TEST PRIOR TO INSTALLATION OF **PLUMBING FIXTURES** MAKING SURE PIPE INTEGRITY IS NOT COMPROMISED; CONDUCT NECESSARY REPAIRS IF NEEDED
- INCLUDE PAINTING OF EXPOSED PIPES IN THE SCOPE OF PAINTING WORKS



SECOND FLOOR

SANITARY AND STORM DRAIN LAYOUT

SCALE 1:175MTS

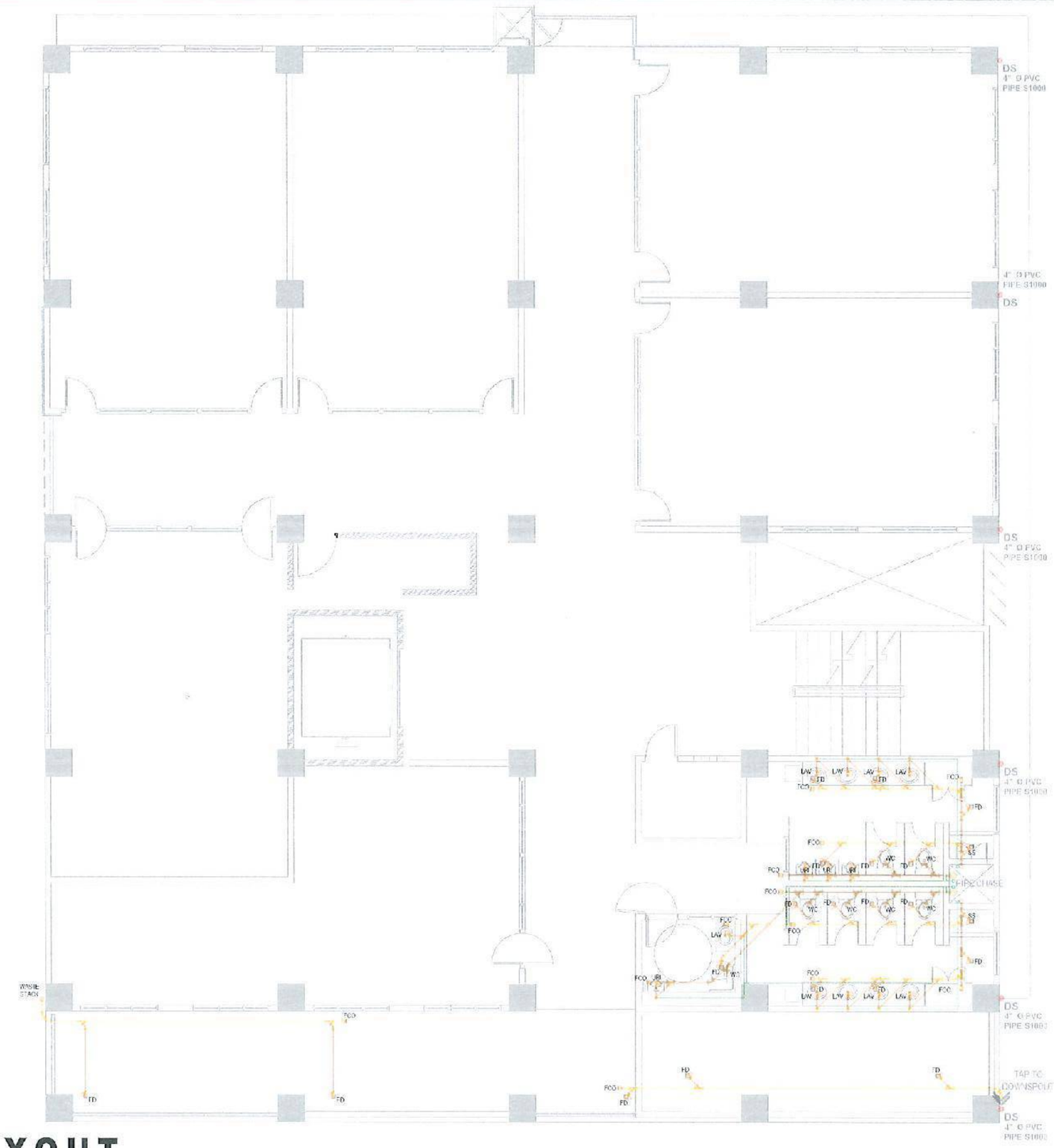
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	AR. PAULO A. DOCTOR ARCHITECT/RMP, CEDM-PDU	AR. CHERRY L. FABIANES HEAD, CEDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, CEDM	ENGR. EDGAR P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT	AS SHOWN	P-09
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 85/100

LEGEND			
SCOPE OF WORKS		INSTALLED	
	6" Ø PVC S1000 WASTE PIPES		6" Ø PVC S1000 WASTE PIPES
	4" Ø PVC S1000 SOIL/WASTE PIPES		4" Ø PVC S1000 SOIL/WASTE PIPES
	3" Ø PVC S1000 WASTE PIPES		3" Ø PVC S1000 WASTE PIPES
	2" Ø PVC S1000 WASTE PIPES		2" Ø PVC S1000 WASTE PIPES
	3" Ø PVC S1000 VENT PIPES		3" Ø PVC S1000 VENT PIPES
	2" Ø PVC S1000 VENT PIPES		2" Ø PVC S1000 VENT PIPES
	6" Ø PVC S1000 STORM DRAIN PIPES		6" Ø PVC S1000 STORM DRAIN PIPES
	4" Ø PVC S1000 STORM DRAIN PIPES		4" Ø PVC S1000 STORM DRAIN PIPES

NOTE:

- WORK INCLUDES THE COMPLETION OF THE **SANITARY, VENT, WATERLINE, AND STORM DRAIN** PIPING SYSTEM, INCLUDING **MAIN WATER SUPPLY LINE**
- INCLUDES **INSTALLATION** OF **ALL PLUMBING FIXTURES, PUMPS, WATER TANKS, AND ITS ACCESSORIES**
- CONDUCT LEAK AND FLOW TEST PRIOR TO INSTALLATION OF **PLUMBING FIXTURES** MAKING SURE PIPE INTEGRITY IS NOT COMPROMISED; CONDUCT NECESSARY REPAIRS IF NEEDED
- INCLUDE PAINTING OF EXPOSED PIPES IN THE SCOPE OF PAINTING WORKS



THIRD FLOOR
SANITARY AND STORM DRAIN LAYOUT

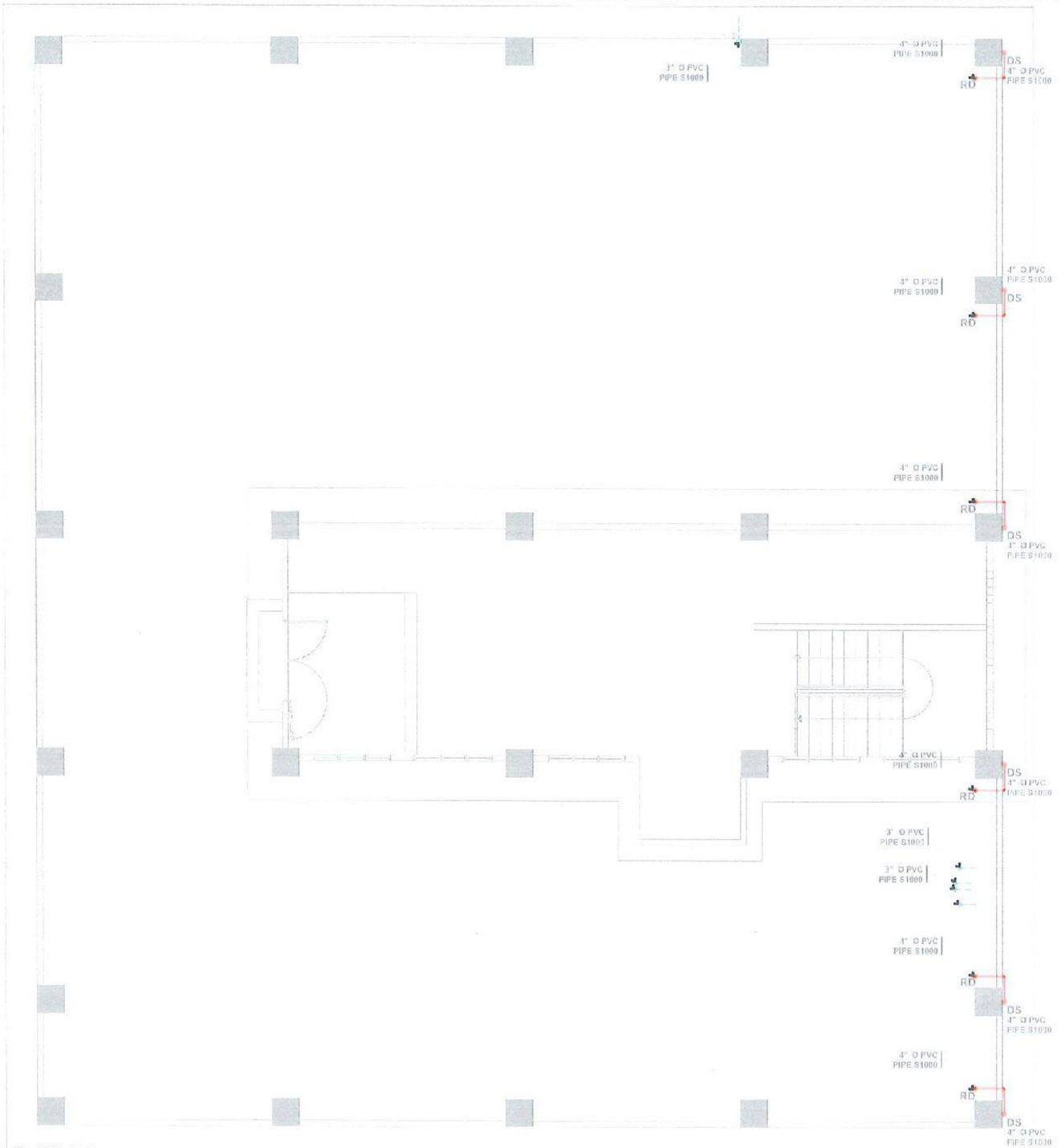
SCALE 1:175MTS

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. PAULO A. DOCTOR ARCHITECT/RMP, OFDM-PDU	CHECKED BY: AR. CHERRY L. TABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: P-10 PAGE NO: 86/100

LEGEND			
SCOPE OF WORKS		INSTALLED	
	6" Ø PVC S1000 WASTE PIPES		6" Ø PVC S1000 WASTE PIPES
	4" Ø PVC S1000 SOIL/WASTE PIPES		4" Ø PVC S1000 SOIL/WASTE PIPES
	3" Ø PVC S1000 WASTE PIPES		3" Ø PVC S1000 WASTE PIPES
	2" Ø PVC S1000 WASTE PIPES		2" Ø PVC S1000 WASTE PIPES
	3" Ø PVC S1000 VENT PIPES		3" Ø PVC S1000 VENT PIPES
	2" Ø PVC S1000 VENT PIPES		2" Ø PVC S1000 VENT PIPES
	6" Ø PVC S1000 STORM DRAIN PIPES		6" Ø PVC S1000 STORM DRAIN PIPES
	4" Ø PVC S1000 STORM DRAIN PIPES		4" Ø PVC S1000 STORM DRAIN PIPES

NOTE:

- WORK INCLUDES THE COMPLETION OF THE **SANITARY, VENT, WATERLINE, AND STORM DRAIN** PIPING SYSTEM, INCLUDING **MAIN WATER SUPPLY LINE**
- INCLUDES **INSTALLATION** OF **ALL PLUMBING FIXTURES, PUMPS, WATER TANKS, AND ITS ACCESSORIES**
- CONDUCT LEAK AND FLOW TEST PRIOR TO INSTALLATION OF **PLUMBING FIXTURES** MAKING SURE PIPE INTEGRITY IS NOT COMPROMISED; CONDUCT NECESSARY REPAIRS IF NEEDED
- INCLUDE PAINTING OF EXPOSED PIPES IN THE SCOPE OF PAINTING WORKS



ROOF DECK

SANITARY AND STORM DRAIN LAYOUT

SCALE 1:175MTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	AR. PAUL A. DOCTOR ARCHITECT/REB, DFDM-PDU	AR. CHERRY L. FABIANES HEAD, DFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, DFDM	DR. LEO P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT	AS SHOWN	P-11
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 87/100

GENERAL NOTES:

1.0 THE FIRE PROTECTION SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES & REGULATIONS:

THE FIRE CODE OF THE PHILIPPINES & REGULATIONS
NATIONAL BUILDING CODE OF THE PHILIPPINES
PMC - PHILIPPINE MECHANICAL CODE 2003
NFPA 10 - STANDARD FOR PORTABLE FIRE EXTINGUISHER
NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEM
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEM
NFPA 20 - STANDARD FOR THE INSTALLATION OF CENTRIFUGAL FIRE PUMP
UNDERWRITERS LABORATORIES, INC. (UL)
FACTORY MUTUAL (FM)
ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS
NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

2.0 DESIGN CRITERIA:

TYPE OF OCCUPANCY	: LIGHT HAZARD
SYSTEM CLASS	: EDUCATIONAL
DESIGN DENSITY	: 0.10 gpm/ft
AREA OF SPRINKLER OPERATION	: 1500 ft2/
DURATION OF WATER SUPPLY	: 30 MINUTES
SPRINKLER TEMPERATURE	: 165 °F (RED)(GLASS BULB)(QUICK RESPONSE)
SPRINKLER K-FACTOR	: 5.6
HOSE STREAM ALLOWANCE	: 100 gpm

3.0 ALL FIRE PROTECTION WORKS SHALL CONFORM WITH THE LATEST EDITION OF THE FIRE CODE OF THE PHILIPPINES, NFPA AND LOCAL ORDINANCES, AND ALL INSTALLATION SHALL BE SUPERVISED BY A LICENSED MECHANICAL ENGINEER.

4.0 PIPING TO BE SCHD.#40 BLACK IRON PIPE, FITTINGS 50mm AND SMALLER SHALL BE SCREWED TYPE, 65mm AND LARGER SHALL BE WELDED TYPE OR GROOVED TYPE.

5.0 SCREWED UNIONS SHALL NOT USED ON PIPE LARGER THAN 50mm.

6.0 ALL THREADED PIPE AND FITTINGS SHALL HAVE THREAD CUT TO ASME B1.20.1. (PIPE THREADS, GENERAL PURPOSE).

7.0 HEXAGONAL BUSHING OR FACE BUSHING SHALL BE PERMITTED IN REDUCING THE SIZE OF OPENING OF FITTING WHEN THE STANDARD FITTINGS OF THE REQUIRED SIZE ARE NOT AVAILABLE.

8.0 ALL PIPES SIZES ARE IN MILLIMETERS, DIAMETER, UNLESS OTHERWISE SPECIFIED.

9.0 CONTRACTOR TO VERIFY ACTUAL TAPPING POINTS(POINT OF CONNECTIONS), PIPE SIZES & OTHER DATA REQUIRED FOR THE COMPLETE OPERATION OF THE SYSTEM.

10.0 THE SUCTION PIPE AND PUMP SUCTION FLANGE ARE NOT OF THE SAME SIZE, THEY SHALL BE CONNECTED WITH AN ECCENTRIC TAPERED REDUCER OR INCREASER INSTALLED IN SUCH A WAY AS TO AVOID AIR POCKET.

11.0 THE USE OF THREADOLET OR WELDOLET IS ACCEPTABLE PROVIDED THAT HOLE SAW IS USED IN CUTTING HOLE THRU.

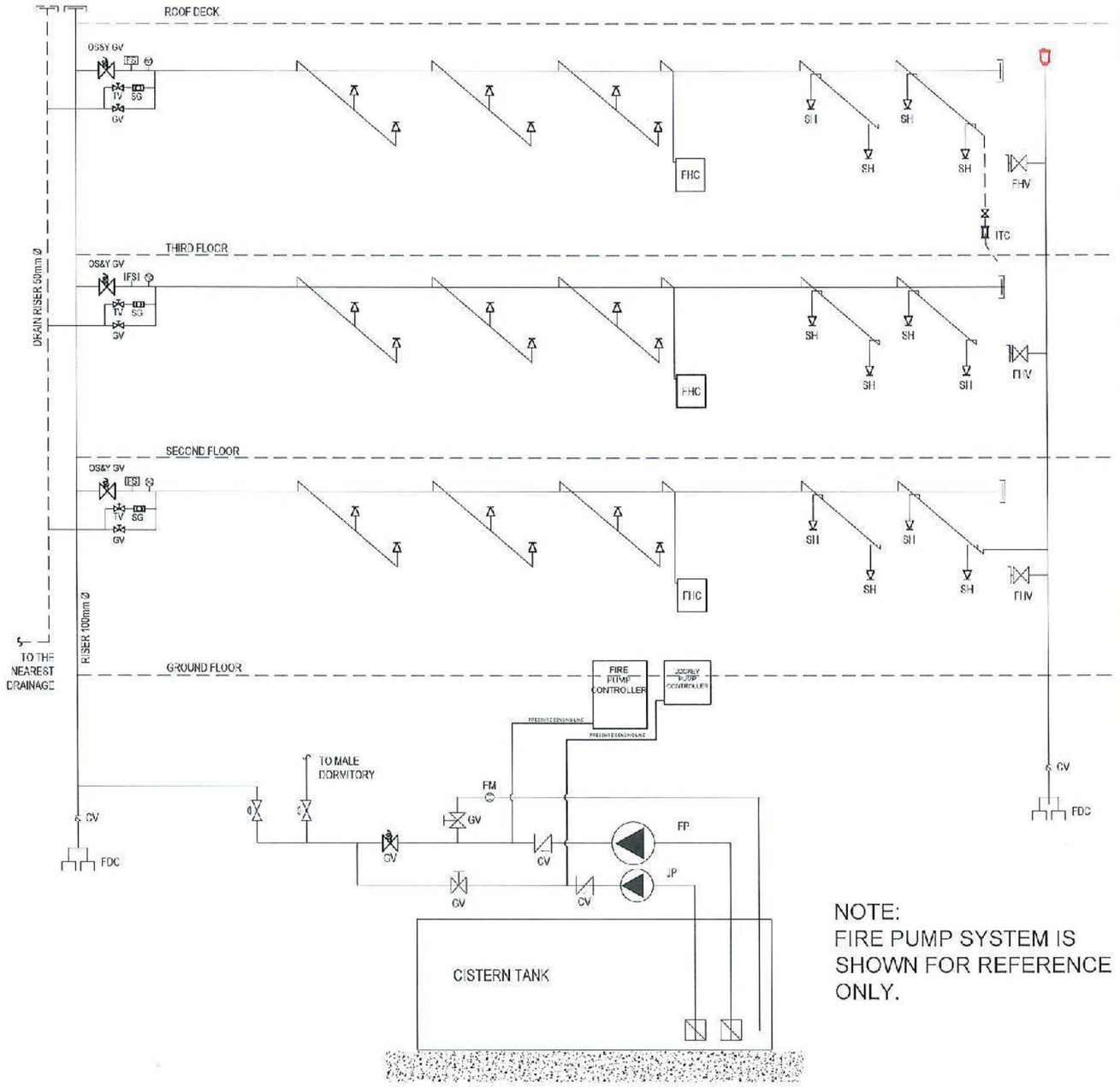
12.0 ALL PIPES PASSING THRU WALLS AND SLAB SHALL BE PROVIDED W/ PIPE SLEEVE AND FIRE RATED SEALANT.

13.0 THE USE OF SCREWED CROSS FITTING IS NOT ACCEPTABLE

14.0 ALL SPRINKLER HEADS SHALL BE STANDARD RESPONSE TYPE.

15.0 THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF SPRINKLER IN COORDINATION WITH THE ARCHITECTURAL CEILING LAYOUT. ANY RELOCATION SHALL BE SUBJECT TO ARCHITECT'S AND ENGINEER'S APPROVAL.

16.0 ALL DRAIN PIPES FOR INSPECTOR'S TEST CONNECTION AND DRAIN VALVES SHALL BE PIPED TO THE NEAREST FLOOR DRAIN/STORM DRAIN.



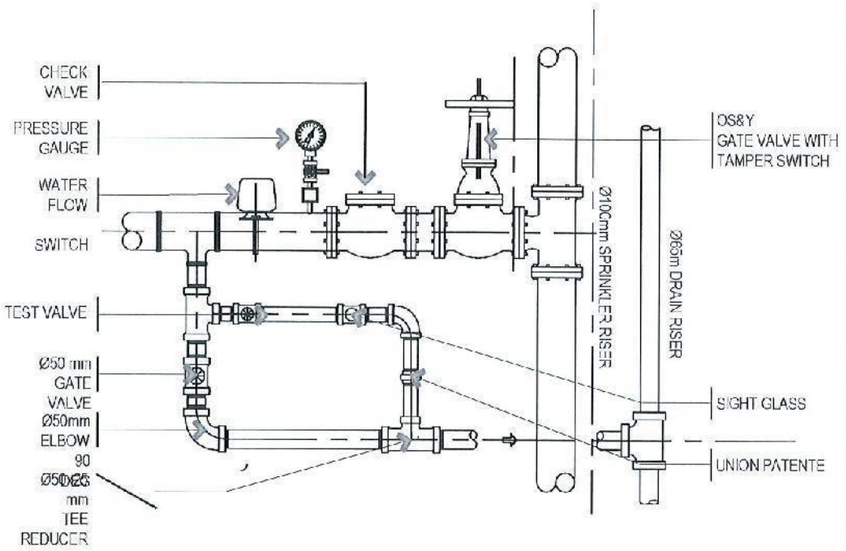
NOTE:
FIRE PUMP SYSTEM IS SHOWN FOR REFERENCE ONLY.

AFSS CSTI BUILDING

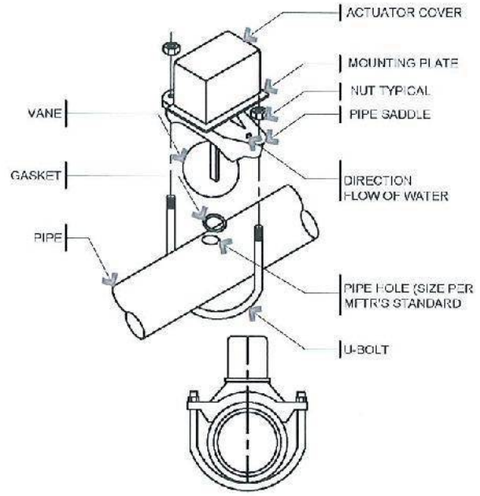
01 / M-01 **AFSS SCHEMATIC DIAGRAM**

SCALE: NTS

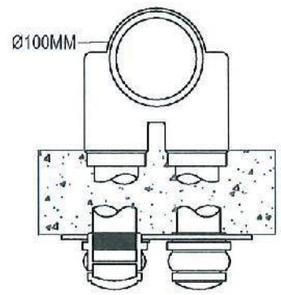
TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. JOHN MYRO B. GANARA, PME MECHANICAL ENGINEER, OFDM-MIU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: M-01 PAGE NO: 88/100



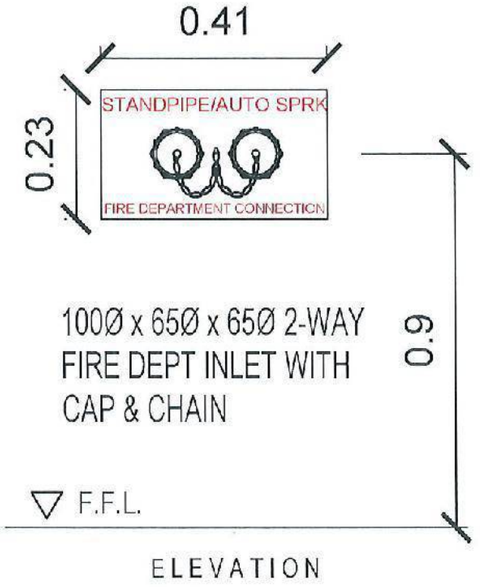
01 M-02 AFSS LABORATORY HIGH SCHOOL
FLOW CONTROL VALVE DETAILS
SCALE : NTS



02 M-02 AFSS LABORATORY HIGH SCHOOL
WATER FLOW SWITCH DETAIL
SCALE : NTS

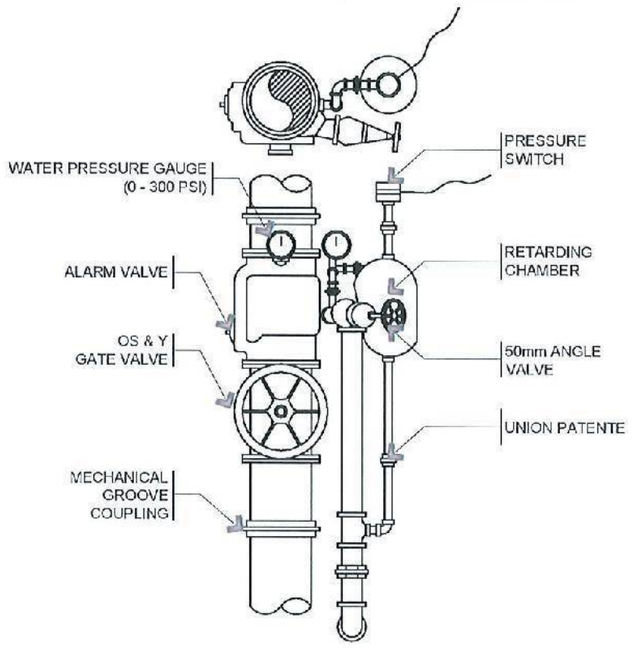


SECTION

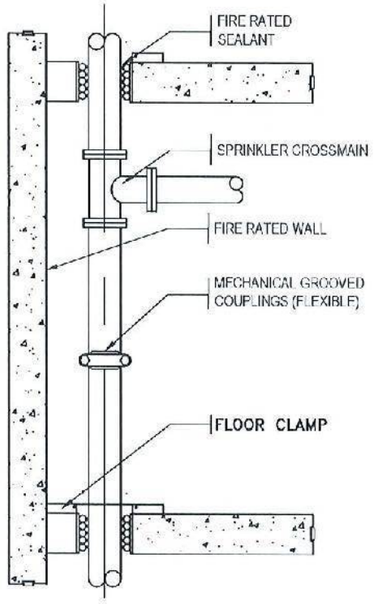


ELEVATION

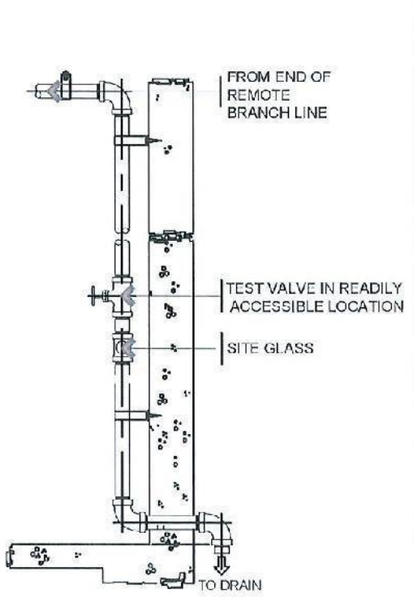
03 M-02 AFSS LABORATORY HIGH SCHOOL
FIRE DEPARTMENT CON. DETAIL
SCALE : NTS



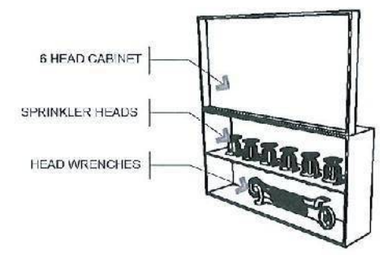
04 M-02 AFSS LABORATORY HIGH SCHOOL
ALARM CHECK VALVE DETAIL
SCALE : NTS



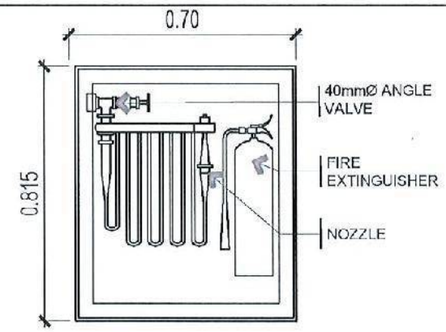
05 M-02 AFSS LABORATORY HIGH SCHOOL
PIPE RISER DETAIL
SCALE : NTS



06 M-02 AFSS LABORATORY HIGH SCHOOL
INSPECTOR'S TEST CON. DETAIL
SCALE : NTS



07 M-02 AFSS LABORATORY HIGH SCHOOL
SPARE SPRINKLER CABINET DETAIL
SCALE : NTS



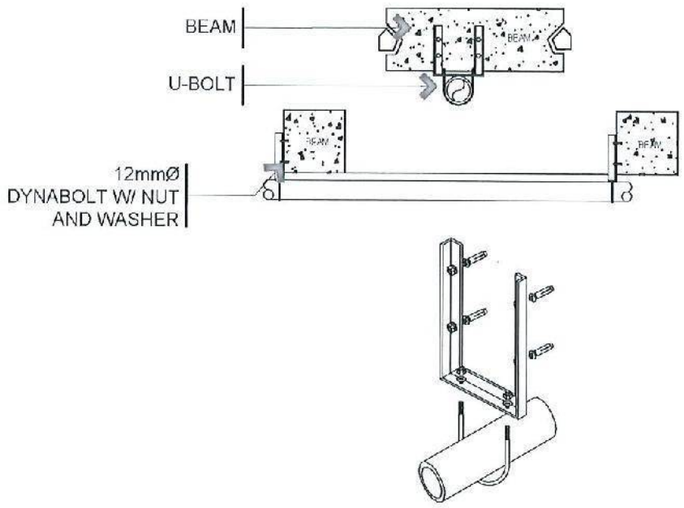
08 M-02 AFSS LABORATORY HIGH SCHOOL
FIRE HOSE CABINET DETAIL
SCALE : NTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

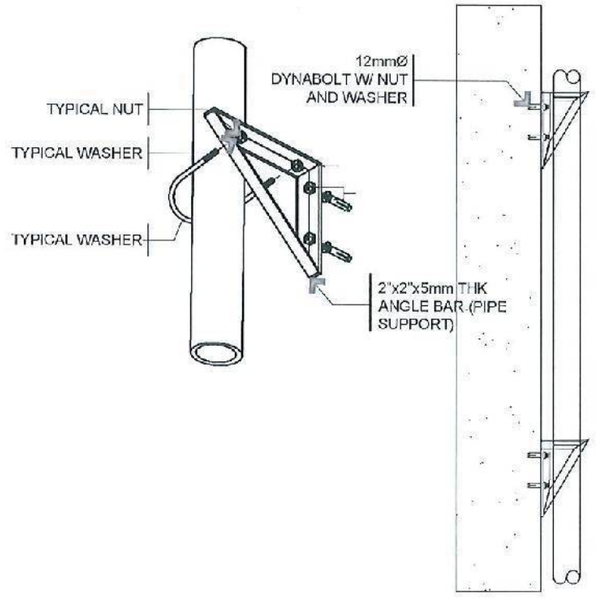
PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)

PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

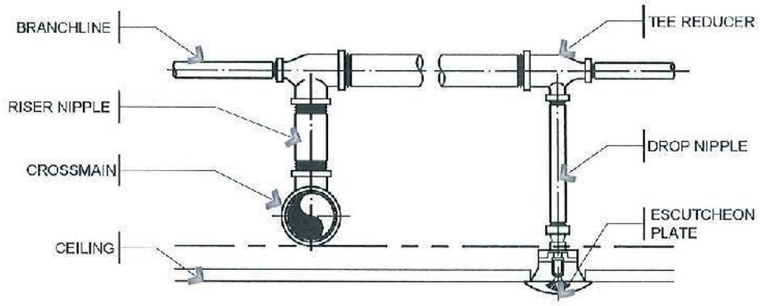
PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
ENGR. JOHN MYRO B. GANARA, PME MECHANICAL ENGINEER, OFDM-MEO	AR. CHERRY L. FABIANES HEAD, OFDM-PDO	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. T.C.F. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT	AS SHOWN DATE: 2026	M-02 PAGE NO: 89/100



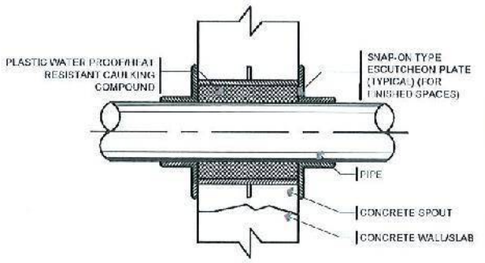
AFSS LABORATORY HIGH SCHOOL
01 M-03
CROSSMAIN HANGER DETAIL
SCALE: NTS



AFSS LABORATORY HIGH SCHOOL
02 M-03
PIPE RISER SUPPORT DETAIL
SCALE: NTS

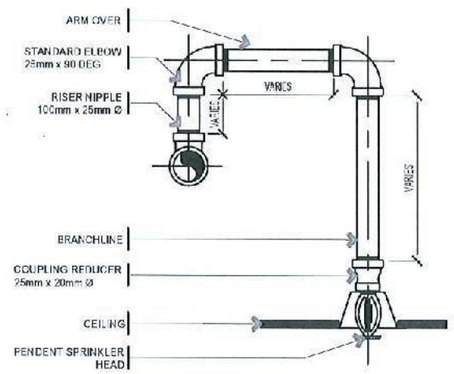


AFSS LABORATORY HIGH SCHOOL
03 M-03
TYPICAL CROSSMAIN/BRANCHLINE CON. DETAIL
SCALE: NTS

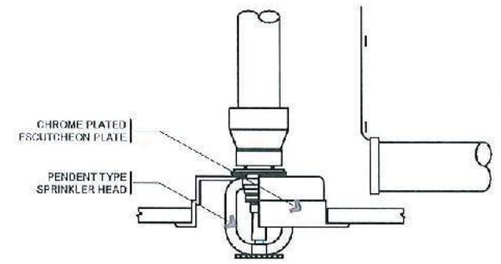


SCHEDULE OF PIPE SLEEVE			
PIPE SIZE		PIPE SLEEVE	
mm.	in.	mm	in.
25	1	50	2
32	1.25	50	2
40	1.50	65	2.50
50	2	75	3
80	3	100	4
100	4	150	6
150	6	200	7

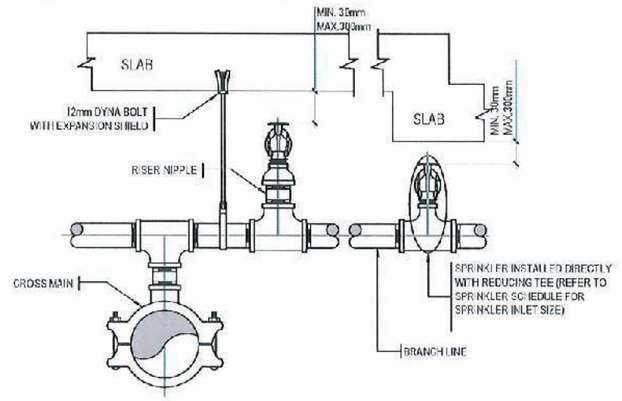
AFSS LABORATORY HIGH SCHOOL
04 M-03
PIPE THRU WALLS/SLAB DETAIL
SCALE: NTS



AFSS LABORATORY HIGH SCHOOL
05 M-03
PENDENT SPRINKLER CON. DETAIL
SCALE: NTS



AFSS LABORATORY HIGH SCHOOL
06 M-03
PENDENT TYPE SPRINKLER HEAD DETAIL
SCALE: NTS



AFSS LABORATORY HIGH SCHOOL
07 M-03
UPRIGHT TYPE SPRINKLER HEAD DETAIL
SCALE: NTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

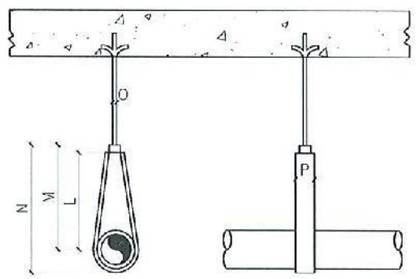
PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.
ENGR. JOHN MYRO B. GANARA, PME MECHANICAL ENGINEER, OFDM-MIU	AR. CHERRY L. LABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. LEO P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER ALVIN N. MENDOZA PRESIDENT	AS SHOWN	M-03
						DATE: 2026	PAGE NO: 90/100

SYMBOL	DESCRIPTION
	CROSS MAIN
	BRANCH LINE
	DRAIN LINE
	UPRIGHT SPRINKLER HEAD (K-5.6)
	PENDENT SPRINKLER HEAD (K-5.6)
	PENDENT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	GATE VALVE
	CHECK VALVE
	OS&Y GATE VALVE
	FIRE HOSE VALVE
	ALARM CHECK VALVE
	TEST AND DRAIN VALVE
	FLOW METER
	REDUCER
	AIR RELEASE VALVE
	FIRE HOSE CABINET
	SIGHT GLASS
	PIPE END CAP
	FIRE PUMP
	JOCKEY PUMP
	MANUAL WET STANDPIPE RISER
C	AFSS RISER
C	AFSS DRAIN RISER
	FIRE DEPARTMENT CONNECTION

ABBREVATION	DESCRIPTION
RN	RISER NIPPLE
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FHV	FIRE HOSE VALVE
OS & Y GV	OUTSIDE SCREW AND YOKE GATE VALVE
CV	CHECK VALVE
GV	GATE VALVE
TDV	TEST AND DRAIN VALVE
FM	FLOW METER
FS	FLOW SWITCH
PG	PRESSURE GAUGE
SG	SIGHT GLASS
FP	FIRE PUMP
JP	JOCKEY PUMP

PIPE SIZE								
	mm	25	32	40	50	65	80	100
	inch	1	1 1/4	1 1/2	2	2 1/2	3	4
L	mm	54	57	57	65	75	79	89
	inch	2 1/8	2 1/4	2 1/4	2 1/2	3	3 1/8	3 1/2
M	mm	73	73	79	89	108	121	130
	inch	2 7/8	2 7/8	3 1/8	3 1/2	4 1/4	4 3/4	5 1/8
N	mm	89	95	102	121	143	146	191
	inch	3 1/2	3 3/4	4	4 3/4	5 5/8	5 3/4	7 1/2
O	mm	10	10	10	10	13	13	16
	inch	3/8	3/8	3/8	3/8	1/2	1/2	5/8
P	mm	16x6	16x6	16x6	16x6	24x10	24x10	32x10
	inch	5/8 x 1/4	5/8 x 1/4	5/8 x 1/4	5/8 x 1/4	15/16 x 3/8	15/16 x 3/8	1 1/4 x 3/8

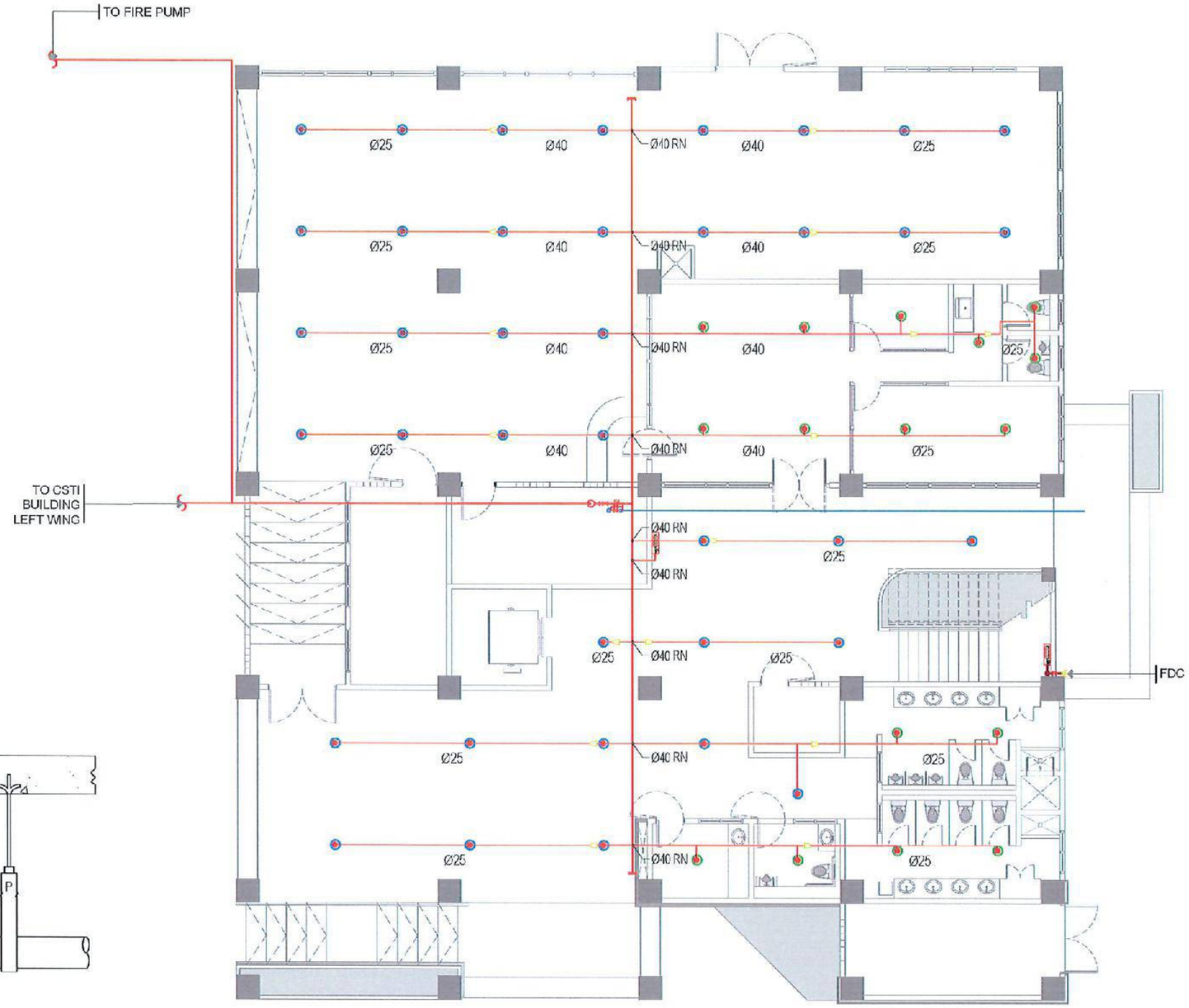


AFSS CSTI BUILDING

02 / M-04

SCHEDULE OF PIPE HANGERS AND SUPPORTS

SCALE : NTS



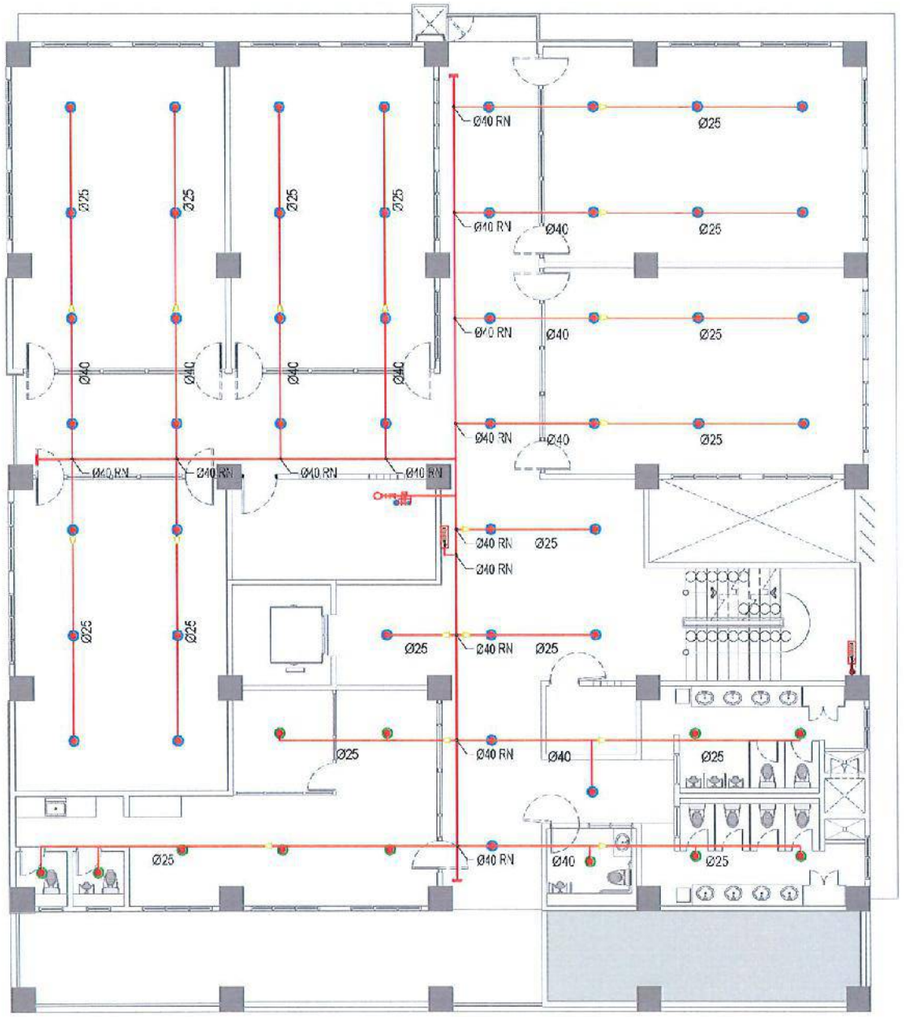
AFSS CSTI BUILDING

01 / M-04

GROUND FLOOR AUTO. FIRE SPRINKLER SYSTEM LAYOUT

SCALE 1:150 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. JOHN MYRO B. GANARA, PME MECHANICAL ENGINEER, OFDM-MIU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: M-04 PAGE NO: 91/100

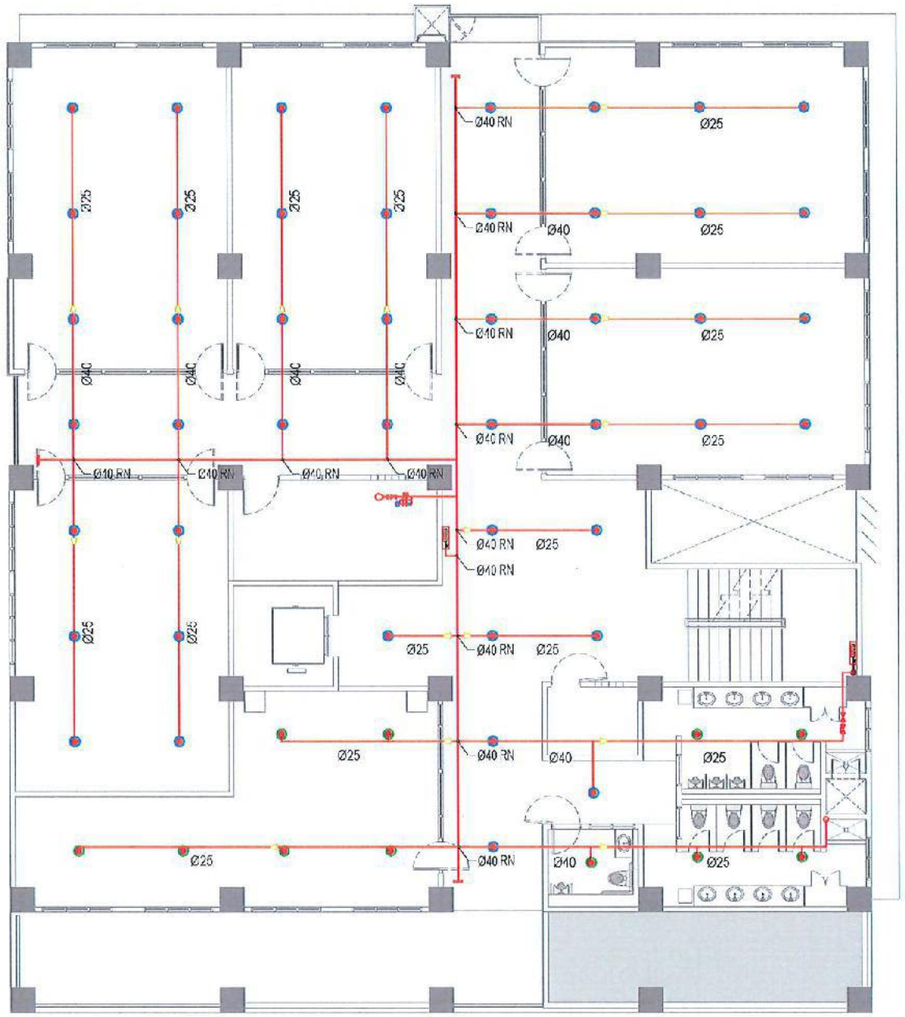


01 M-05

AFSS CSTI BUILDING

SECOND FLOOR AUTO. FIRE SPRINKLER SYSTEM LAYOUT

SCALE 1:150 M



02 M-05

AFSS CSTI BUILDING

THIRD FLOOR AUTO. FIRE SPRINKLER SYSTEM LAYOUT

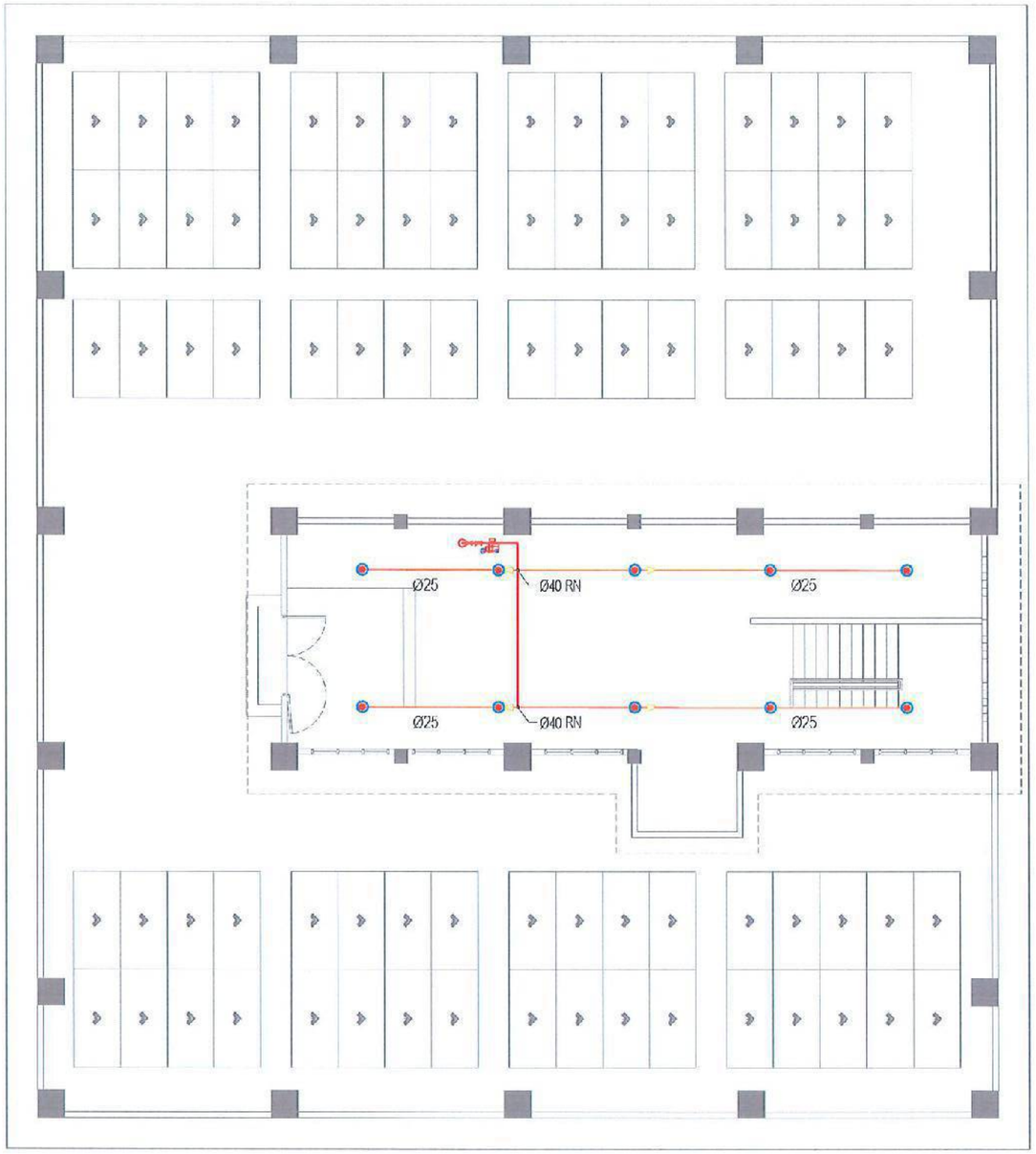
SCALE 1:150 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. JOHN MYRO B. GANARA, PME MECHANICAL ENGINEER, OFDM-MIU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: M-05 PAGE NO. 92/100

SYMBOL	DESCRIPTION
	CROSS MAIN
	BRANCH LINE
	DRAIN LINE
	UPRIGHT SPRINKLER HEAD (K 5.6)
	PENDENT SPRINKLER HEAD (K-5.6)
	PENDENT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	GATE VALVE
	CHECK VALVE
	OS&Y GATE VALVE
	FIRE HOSE VALVE
	ALARM CHECK VALVE
	TEST AND DRAIN VALVE
	FLOW METER
	REDUCER
	AIR RELEASE VALVE
	FIRE HOSE CABINET
	SIGHT GLASS
	PIPE END CAP
	FIRE PUMP
	JOCKEY PUMP
	MANUAL WET STANDPIPE RISER
	AFSS RISER
	AFSS DRAIN RISER
	FIRE DEPARTMENT CONNECTION

ABBREVATION	DESCRIPTION
RN	RISER NIPPLE
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FHV	FIRE HOSE VALVE
OS & Y GV	OUTSIDE SCREW AND YOKE GATE VALVE
CV	CHECK VALVE
GV	GATE VALVE
TDV	TEST AND DRAIN VALVE
FM	FLOW METER
FS	FLOW SWITCH
PG	PRESSURE GAUGE
SG	SIGHT GLASS
FP	FIRE PUMP
JP	JOCKEY PUMP



AFSS CSTI BUILDING

01 / M-06

ROOFDECK AUTO. FIRE SPRINKLER SYSTEM LAYOUT

SCALE 1:150 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)

PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:
ENGR. JOHN MYRO B. GANARA, PME MECHANICAL ENGINEER, DFDM-MIU	AR. CHERRYL E. FABIANES HEAD, DFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, DFDM	DR. LEO P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT

SHEET CONTENTS:	SHEET NO:
AS SHOWN	M-06
DATE: 2026	PAGE NO: 93/100

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)

PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
ENGR. JOHN MYRO B. GANNABAN, PME
PROFESSIONAL ENGINEER, DFDM, TSU

CHECKED BY:
AR. CHERRY LEA DANES
HEAD, OFDM-FDU

CERTIFIED BY:
AR. ARLEN M. GUILEB
DIRECTOR, OFDM

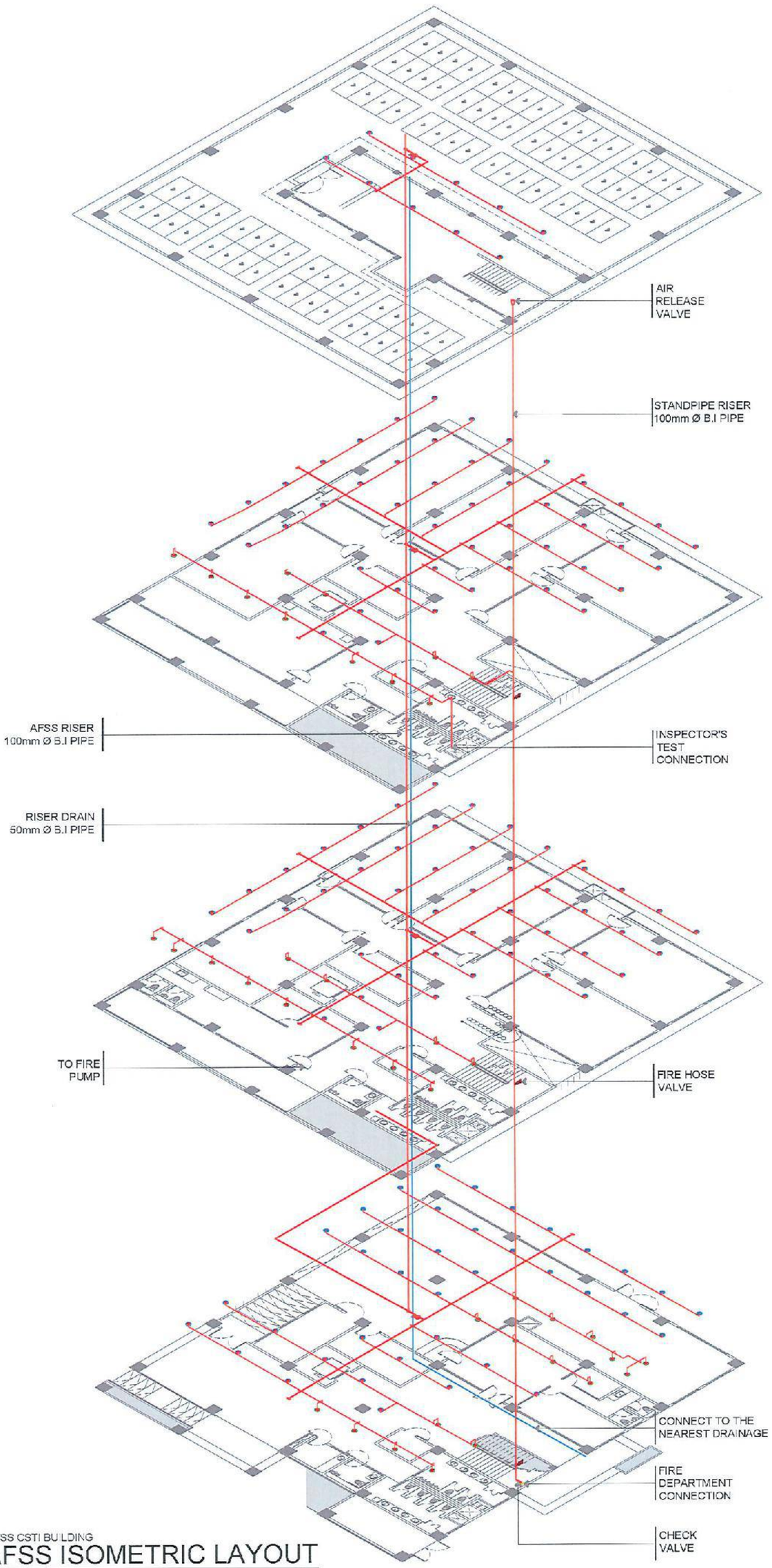
RECOMMENDING APPROVAL:
ENGR. LEO P. PIAO
DIRECTOR, CSET

RECOMMENDING APPROVAL:
DR. MARLON V. GAMIDO
VP FOR ADMINISTRATION

APPROVED:
DR. JASPER JAYN N. MENDOZA
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2026

SHEET NO.
M-07
PAGE NO.
94/100



AFSS CSTI BUILDING
01 / M-07
AFSS ISOMETRIC LAYOUT
SCALE 1:150 M

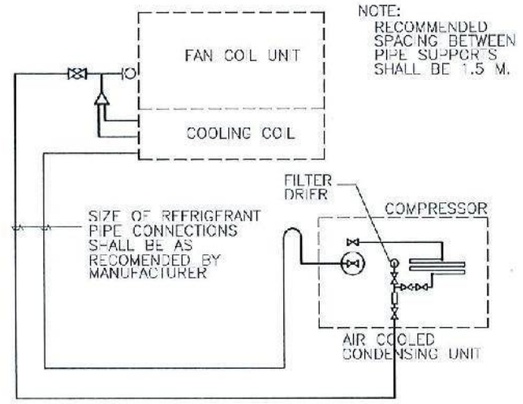
GENERAL NOTES:

1. ALL AIR CONDITIONING UNITS TO BE SUPPLIED SHALL BE APPROVED PRODUCT OF REPUTABLE MANUFACTURERS.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THEIR WORK WITH OTHER TRADES. IF THE CONTRACTOR FAILS TO DO SO, THEY WILL BE RESPONSIBLE FOR ANY SUBSEQUENT EXPENSES INCURRED AS A RESULT,
3. ALL NECESSARY SHOP DRAWING SHALL BE SUBMITTED FOR APPROVAL PRIOR TO START OF FABRICATION AND/OR INSTALLATION.
4. ALL PIPES PASSING THRU WALLS AND FLOOR SLABS SHALL BE PROVIDED WITH SUITABLE PIPE SLEEVES.
5. ALL EXPOSED COPPER TUBING SHALL PROVIDE PCV CLADDING/MOLDING.
6. ALL INSTALLATION WORKS SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.
7. ALL NECESSARY GOVERNMENT PERMITS SHALL BE SECURED AND FOR THE ACCOUNT OF THE CONTRACTOR.
8. ALL PIPING SHALL BE PROVIDED WITH SUITABLE HANGERS AND SUPPORT PROPERLY ANCHORED TO THE BUILDING SLABS, WALL OR BEAM.
9. ALL OTHER ITEMS/MATERIALS NOT SHOWN ON THE PLAN BUT DEEMED NECESSARY SHALL BE PROVIDED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.

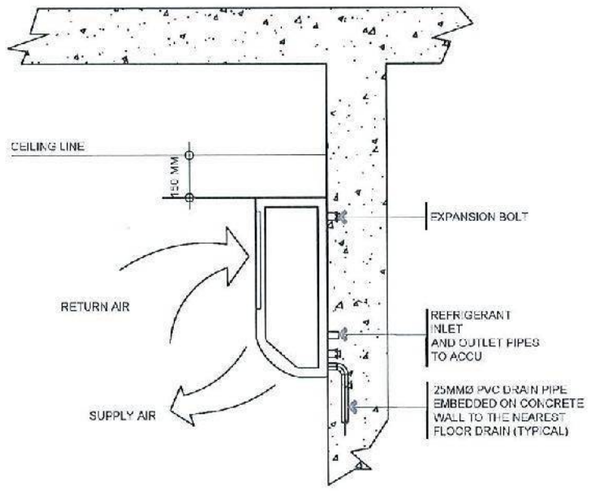
SYMBOL	DESCRIPTION
	AC INDOOR UNIT (WALL MOUNTED)
	AC OUTDOOR UNIT
	COPPER TUBE
	ROUGHING-IN FOR COPPER TUBE
EF - 00 $00m^3/hr$	EQUIPMENT DESIGNATION

EQUIPMENT SCHEDULE

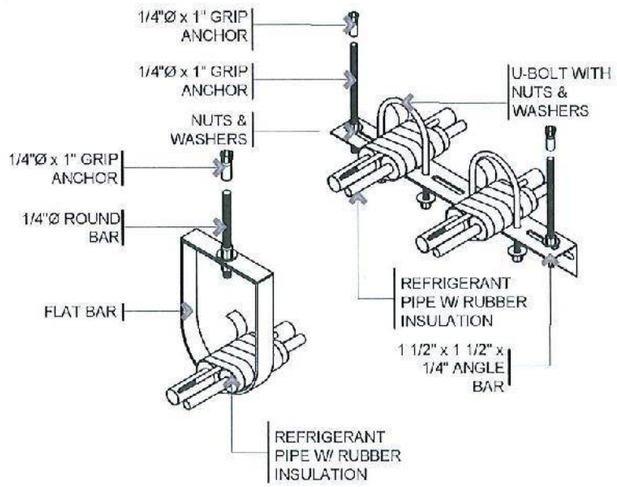
UNIT	QTY	AREA SERVE	CAPACITY (HP)	TYPE	RATED POWER CONSUMPTION, MIN - MAX (kW)	ELECTRICAL DATA			REMARKS
						VOLTS	PHASE	HERTS	
SPLIT TYPE: WALL MOUNTED	1	AS SHOWN	3.0	INVERTER	2.14 (0.22 - 2.8)	220	1	60	MECHANICAL CONTRACTOR TO INSTALL, WIRE, AND MAKE UNIT OPERATIONAL
SPLIT TYPE: WALL MOUNTED	22	AS SHOWN	2.5	INVERTER	1.6 (0.22 - 2.14)	220	1	60	
SPLIT TYPE: WALL MOUNTED	3	AS SHOWN	2.0	INVERTER	1.32 (0.185 - 2.0)	220	1	60	
SPLIT TYPE: WALL MOUNTED	3	AS SHOWN	1.0	INVERTER	0.455 (0.16 - 0.89)	220	1	60	



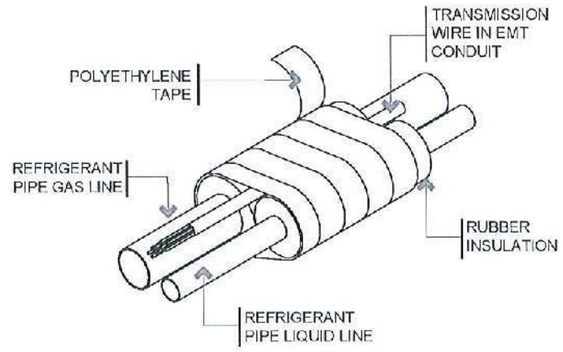
ACU CSTI BUILDING
01 M-08 SCHEMATIC REFRIGERANT PIPING
SCALE : NTS



ACU CSTI BUILDING
02 M-08 ACU MOUNTING DETAILS
SCALE : NTS



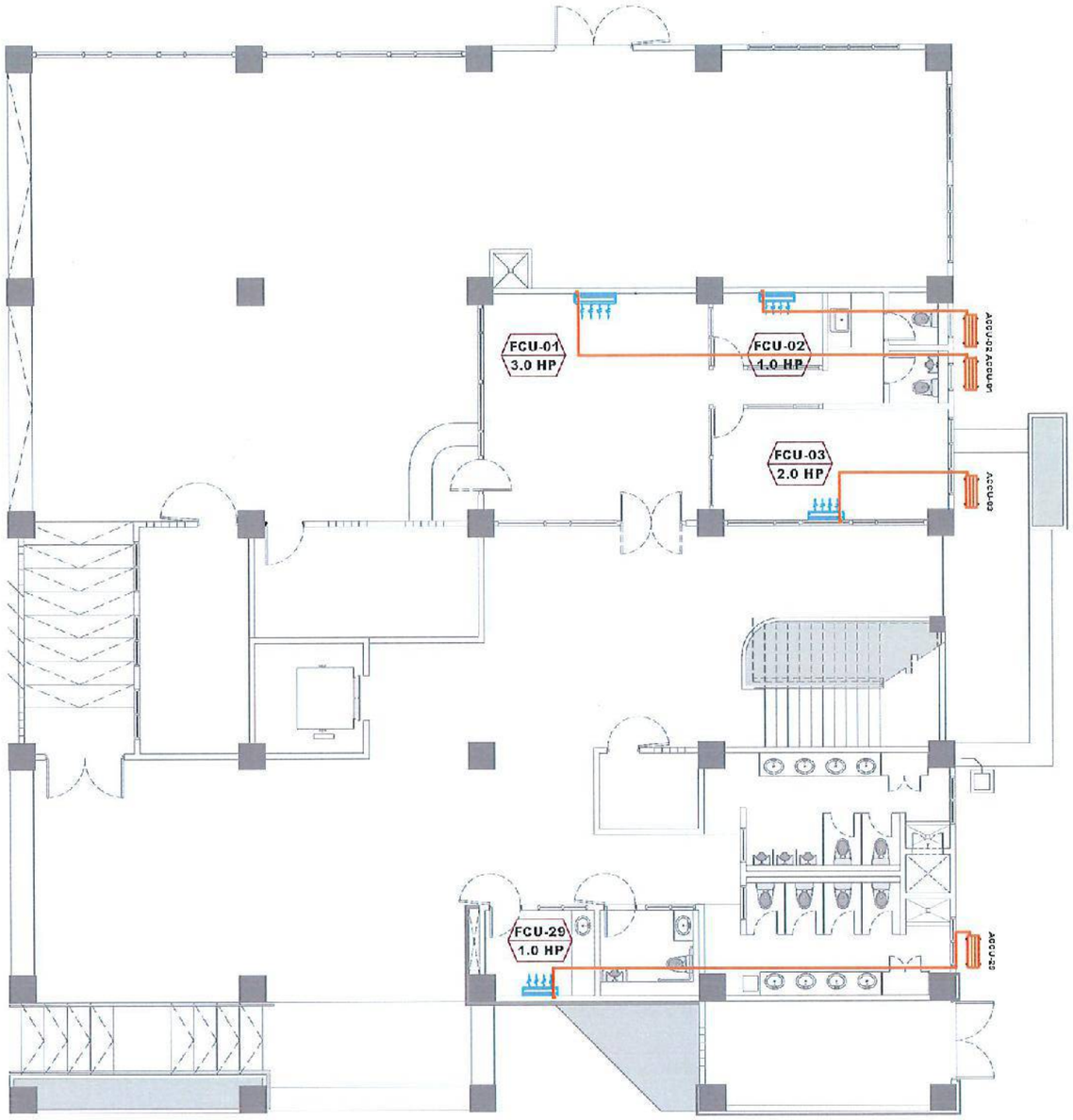
ACU CSTI BUILDING
03 M-08 PIPE HANGER DETAILS
SCALE : NTS



ACU CSTI BUILDING
04 M-08 REFRIGERANT PIPE DETAILS
SCALE : NTS

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	ENGR. JOHN MYRO B. GANARA, PME MECHANICAL ENGINEER, DFDM-MU	AR. CHERRY LEE FABIANES HEAD, DFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, DFDM	DR. LEO P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT	AS SHOWN	M-08
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 95/100

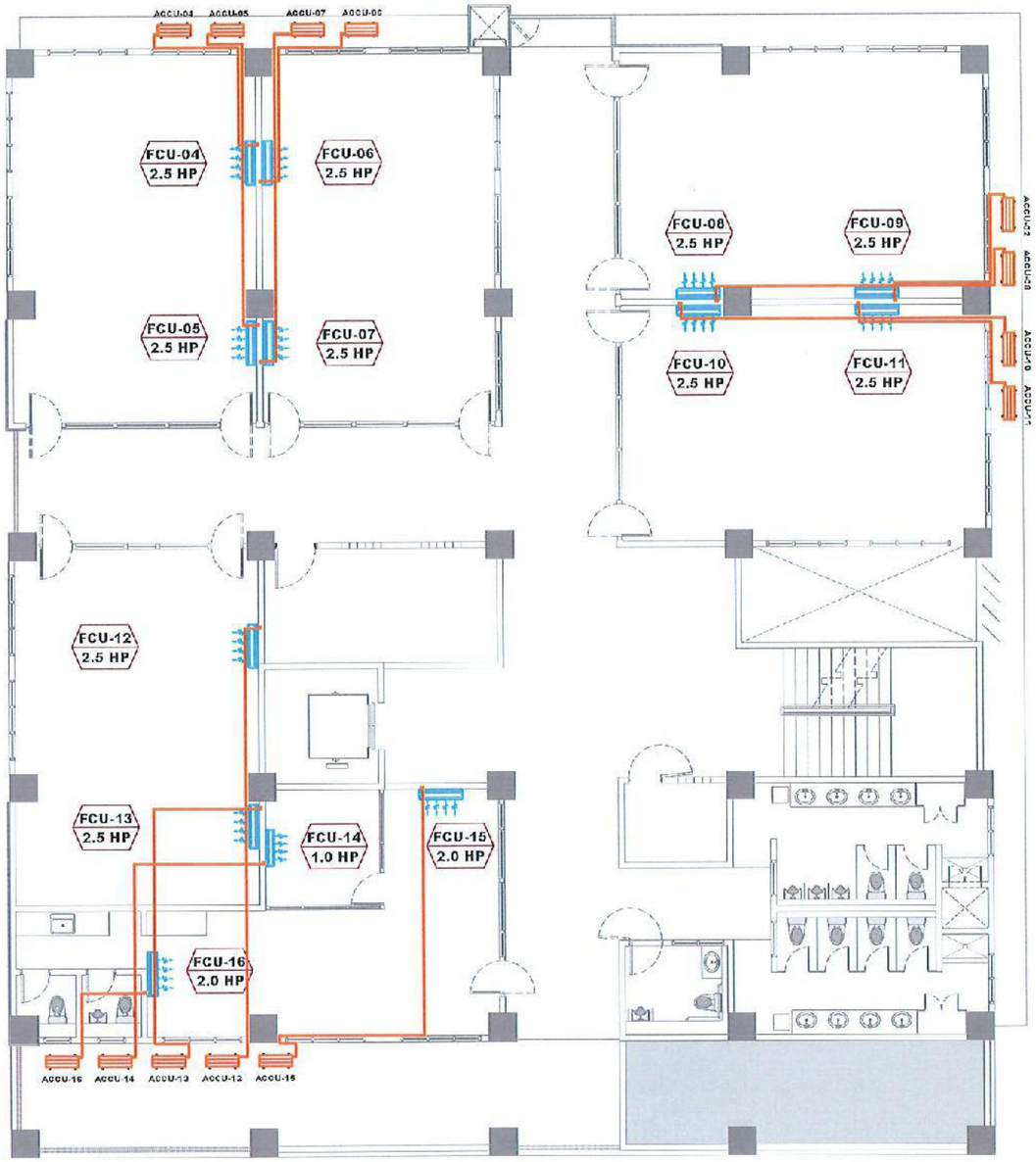


01 M-09

ACU CSTI BUILDING

GROUND FLOOR AIR CONDITIONING SYSTEM LAYOUT

SCALE 1:150 M



02 M-09

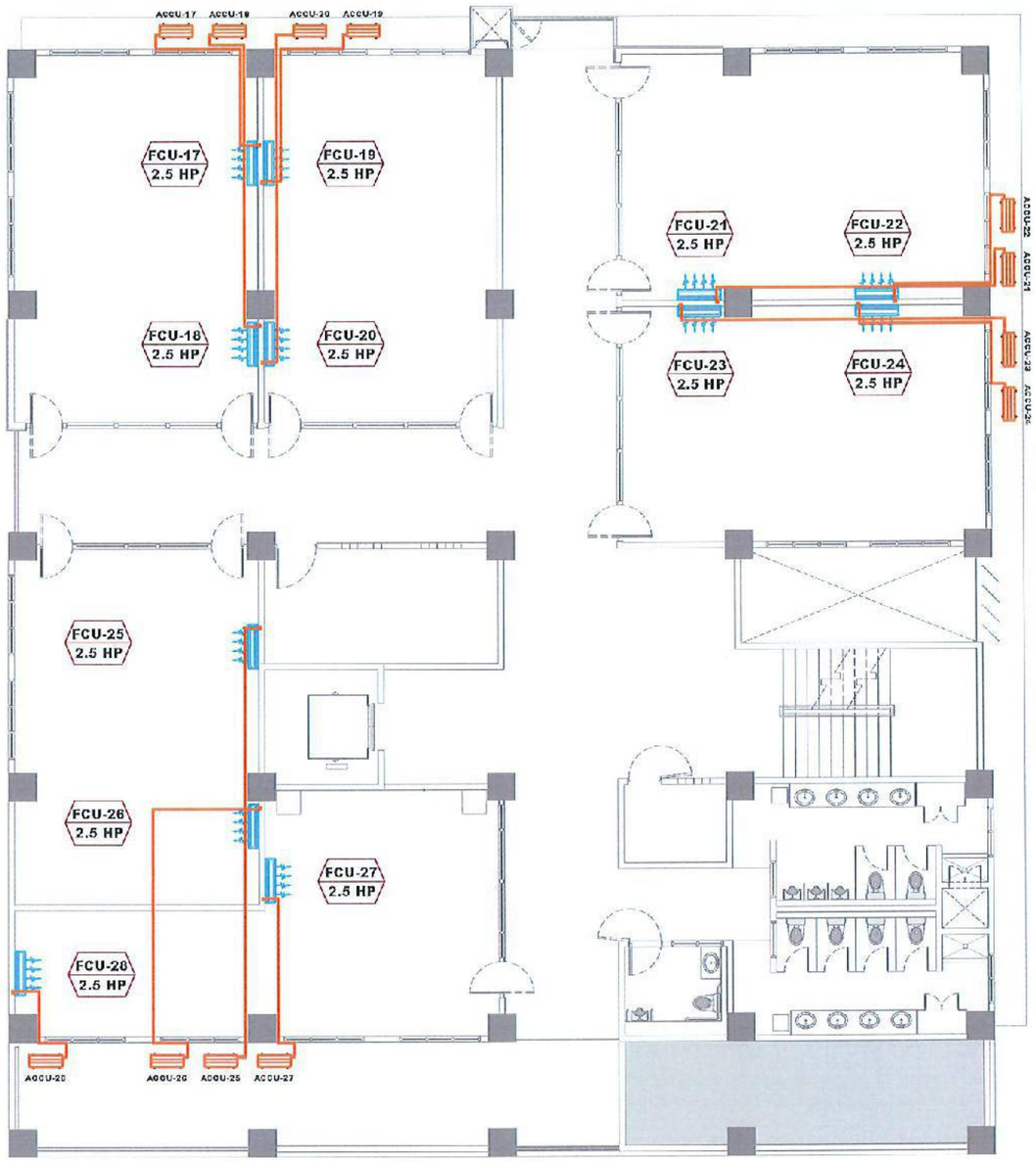
ACU CSTI BUILDING

SECOND FLOOR MECHANICAL VENTILATION LAYOUT

SCALE 1:150 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. JOHN MYRO B. GANARA, PME MECHANICAL ENGINEER, CFDM-MIO	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2026	SHEET NO: M-09 PAGE NO: 96/100

SYMBOL	DESCRIPTION
	AC INDOOR UNIT (WALL MOUNTED)
	AC OUTDOOR UNIT
	COPPER TUBE
	ROUGHING-IN FOR COPPER TUBE
EF - 00 60m³/hr	EQUIPMENT DESIGNATION



ACU CSTI BUILDING

01 / M-10

THIRD FLOOR MECHANICAL VENTILATION LAYOUT

SCALE 1:150 M

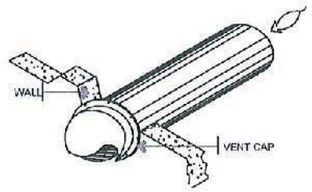
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	ENGR. JOHN MYRO B. GANARA, PME MECHANICAL ENGINEER, OFDM-MU	AR. CHERRY L. FABIANES HEAD, OFDM-PDO	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. LEO P. PIAO DIRECTOR, CSET	DR. MARLON V. GAMIDO VP FOR ADMINISTRATION	DR. JASPER JAY N. MENDOZA PRESIDENT	AS SHOWN	M-10
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 97/100

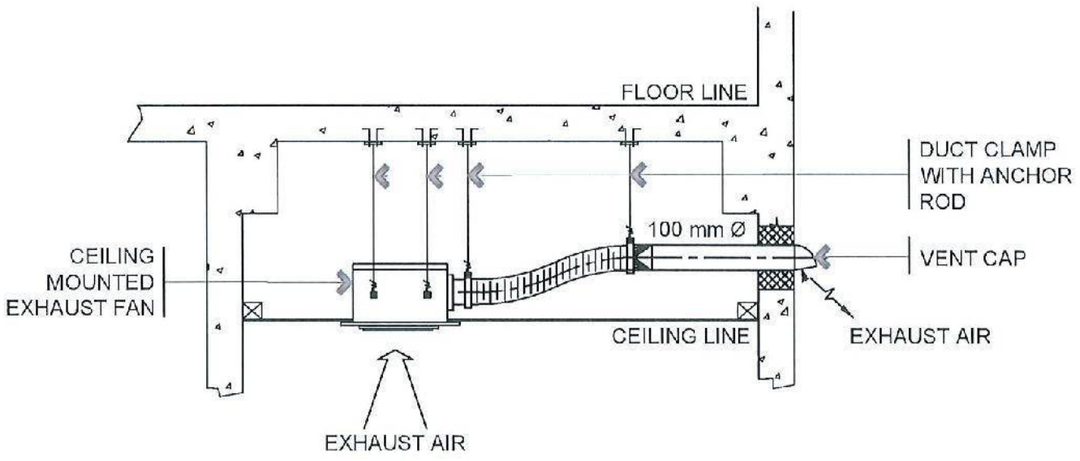
EQUIPMENT SCHEDULE

UNIT	QTY	AREA SERVE	CAPACITY (WATTS)	TYPE	ELECTRICAL DATA			REMARKS
					VOLTS	PHASE	HERTS	
WALL MOUNTED EXHAUST FAN	4	AS SHOWN	350	20",WALL MOUNTED	230	1	60	MECHANICAL CONTRACTOR TO INSTALL, WIRE, AND MAKE UNIT OPERATIONAL
CEILING MOUNTED EXHAUST FAN	12	AS SHOWN	30	10",CEILING MOUNTED	230	1	60	
CEILING MOUNTED EXHAUST FAN	7	AS SHOWN	26	8",CEILING MOUNTED	230	1	60	

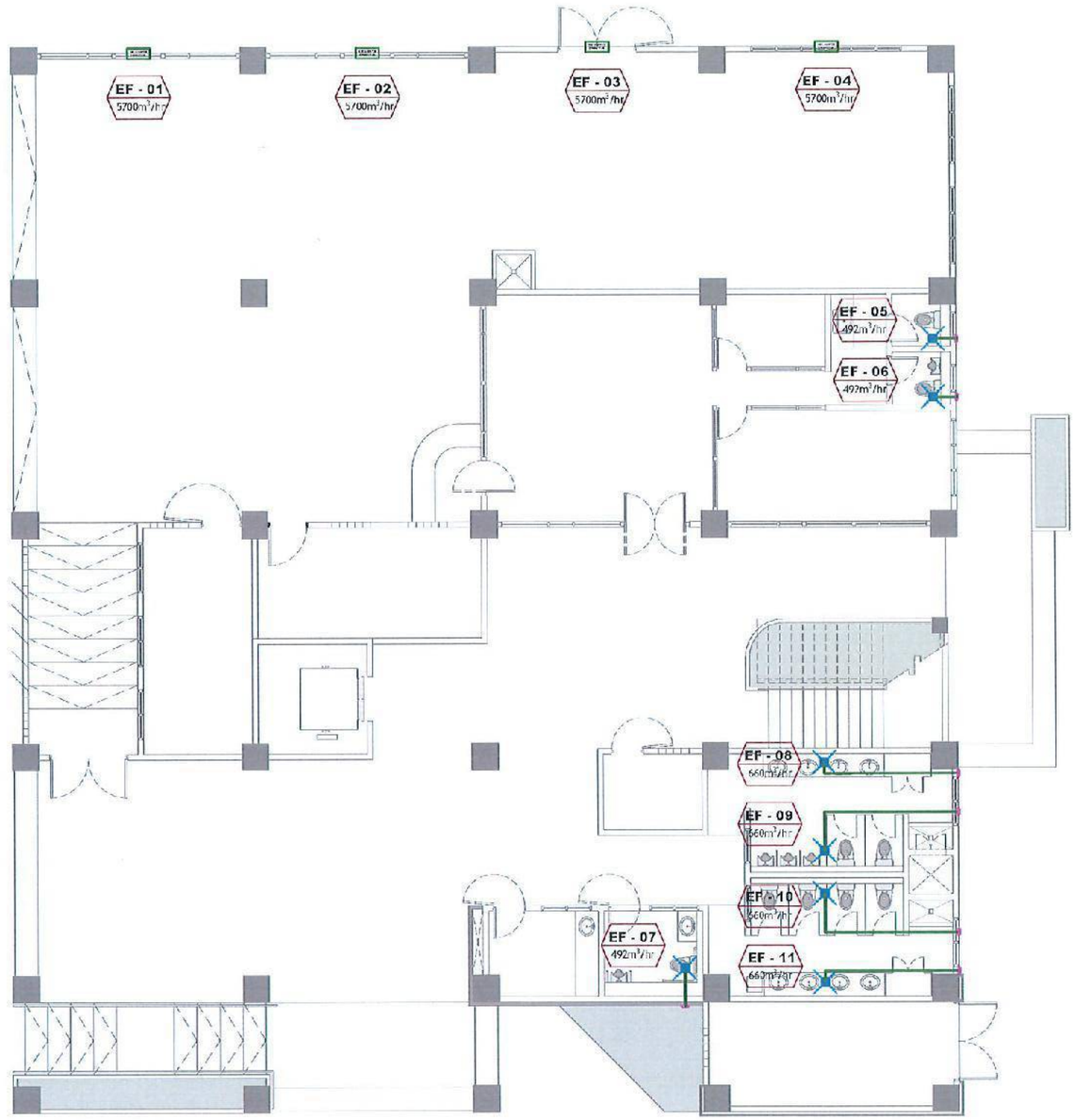
SYMBOL	DESCRIPTION
	WALL MOUNTED EXHAUSTED FAN
	CEILING MOUNTED EXHAUSTED FAN
	VENT CAP
	100mm Ø PVC PIPE S1000
	100mm Ø FLEXIBLE DUCT
EF - 00	EQUIPMENT DESIGNATION



02 / M-11 — MV CSIT BUILDING
VENT CAP DETAILS
SCALE : NTS



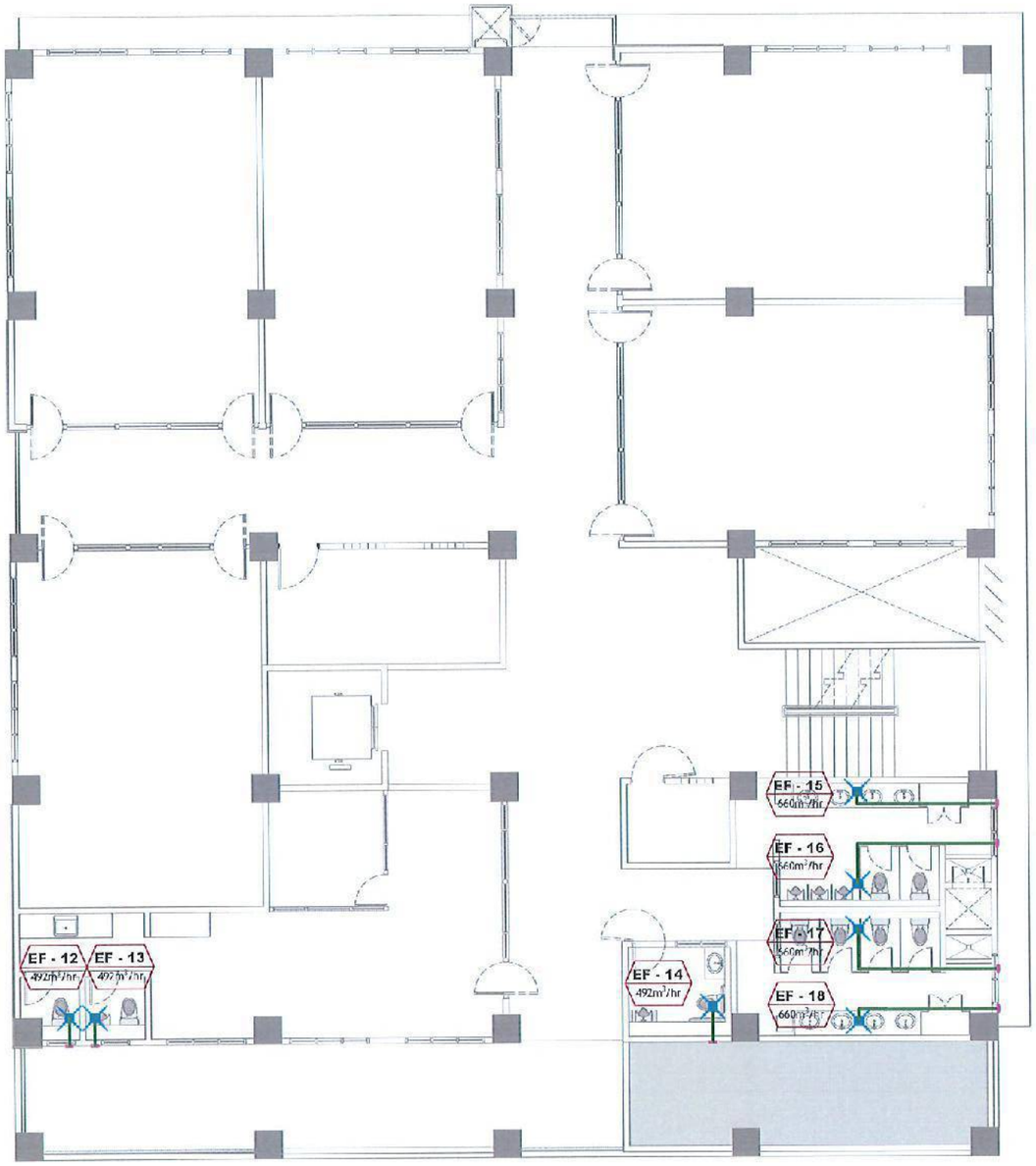
03 / M-11 — MV CSIT BUILDING
CEILING CASSETTE EXHAUST FAN DETAIL
SCALE : NTS



01 / M-11 — MV CSIT BUILDING
GROUND FLOOR MECHANICAL VENTILATION LAYOUT
SCALE 1:150 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

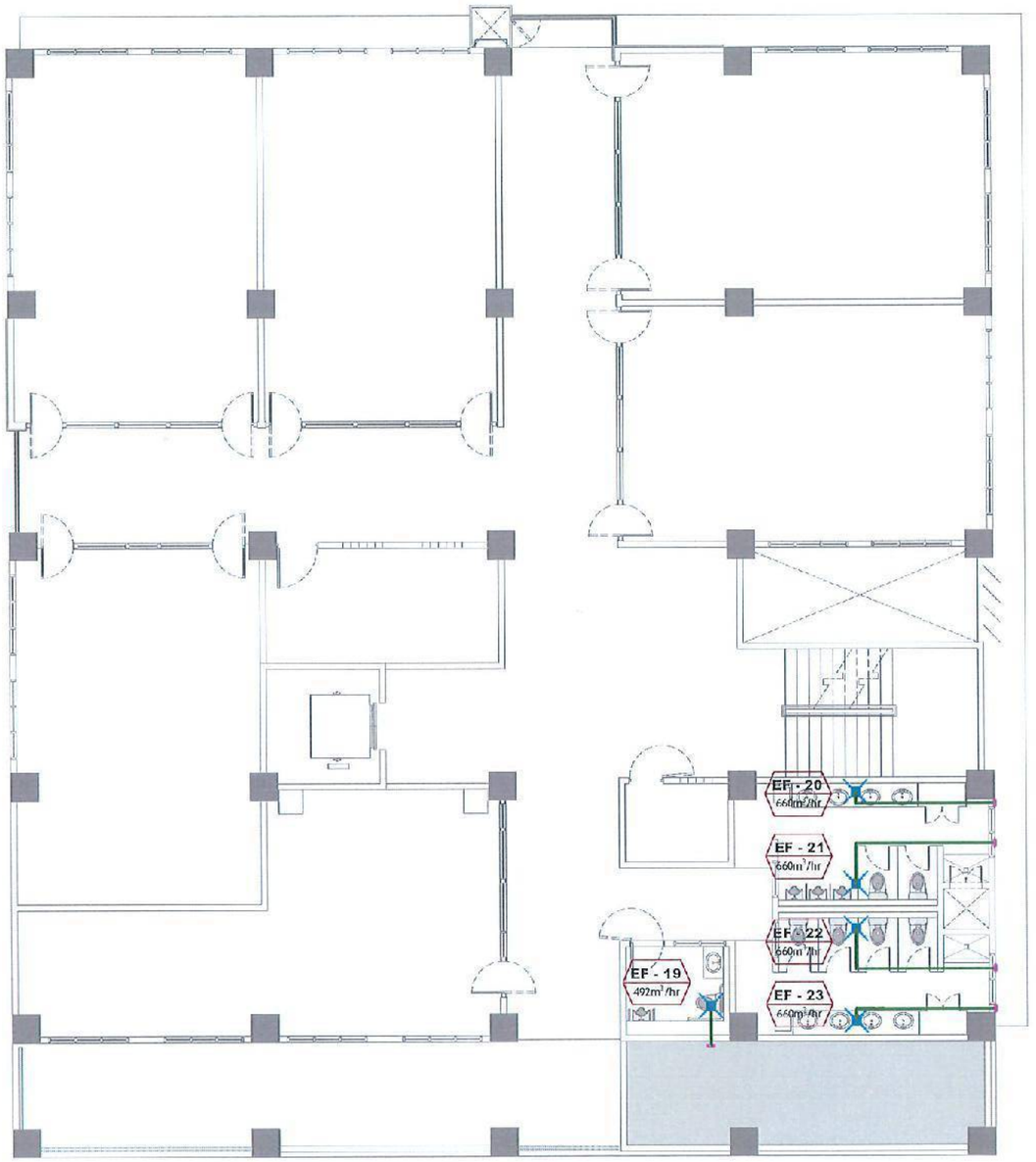
PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	ENGR. JOHN MYRO B. GANARA, PME	AR. CHERRY L. FABIANES	AR. ARLEN M. GUIEB	DR. LEO P. PIAO	DR. MARLON V. GAMIDO	DR. JASPER JAY N. MENDOZA	AS SHOWN	M-11
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	TECHNICAL ENGINEER, CFDM-MIU	HEAD, CFDM-PDU	DIRECTOR, CFDM	DIRECTOR, CSET	VP FOR ADMINISTRATION	PRESIDENT	DATE: 2026	PAGE NO: 98/100



MV CSTI BUILDING

01 M-12 SECONDFLOOR MECHANICAL VENTILATION LAYOUT

SCALE 1:150 M



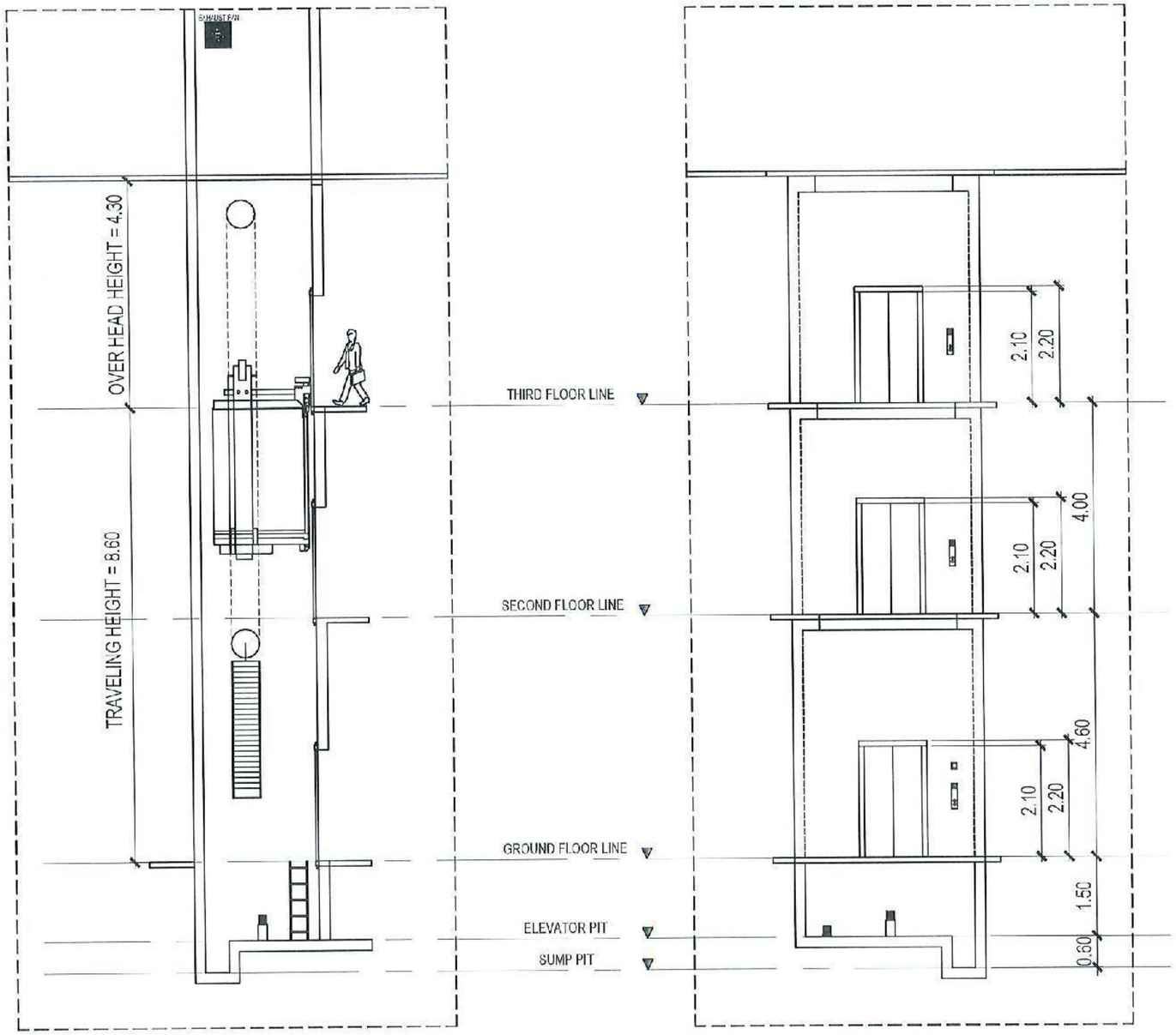
MV CSTI BUILDING

02 M-12 THIRD FLOOR MECHANICAL VENTILATION LAYOUT

SCALE 1:150 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: ENGR. JOHN MYRO B. GANARA, PME, MECHANICAL ENGINEER, CFDM-MIU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-FDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: M-12
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 99/100



ELEVATOR CSTI BUILDING

01 M-13 **SIDE ELEVATION**

SCALE 1:100 M

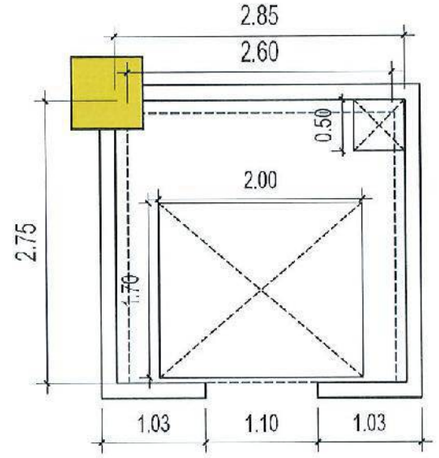
ELEVATOR CSTI BUILDING

02 M-13 **FRONT ELEVATION**

SCALE 1:100 M

SPECIFICATION

TYPE OF USE	PASSENGER ELEVATOR	
RATED LOAD	1600 KG	
RATED SPEED	60 m/min (1m/sec)	
CONTROLLER	AC-VVVF	
	SELECTIVE COLLECTIVE	
CAR INSIDE DIMENSION	W = 2000 mm	
	D = 1500mm	HC = 2300 mm
HOISTWAY	2850mm (W) x 2750 mm (D)	
DOOR OPENING	W = 900 mm x HH = 2100 mm	
TRAVEL HEIGHT	8600 mm	
OVERHEAD HEIGHT	4300 mm	
PIT DEPTH	1500 mm	
DOOR OPEN TYPE	CENTER OPENING	
NO. OF STOP	3 FLOORS / 3 STOPS / 3 DOORS	
OPERATION	Push Button Control each floor	
POWER SUPPLY	220VAC, 3ϕ ,60Hz	
LIGHTING SUPPLY	220VAC, 1ϕ ,60Hz	
ACCESS CONTROL SYSTEM		



ELEVATOR CSTI BUILDING

03 M-13 **SHAFT LAYOUT PLAN**

SCALE 1:60 M

TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE II)	PREPARED BY: ENGR. JOHN MYRO B. GANARA, PME, MECHANICAL ENGINEER, OFDM-MO	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. LEO P. PIAO, DIRECTOR, CSET	RECOMMENDING APPROVAL: DR. MARLON V. GAMIDO, VP FOR ADMINISTRATION	APPROVED: DR. JASPER JAY N. MENDOZA, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: M-13
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2026	PAGE NO: 100/100