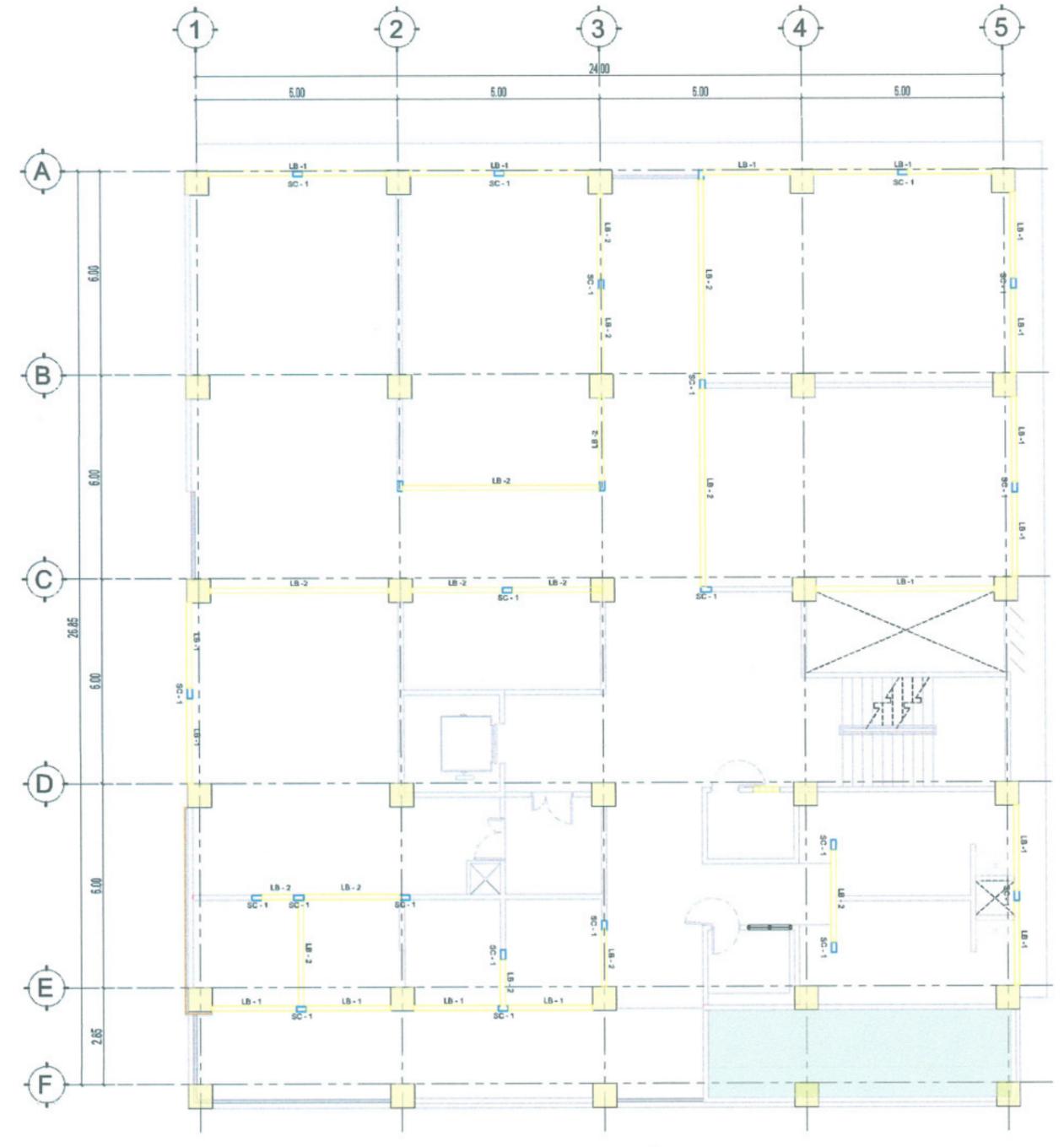


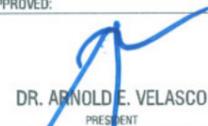
GROUND FLOOR LINTEL BEAM & STIFFENER COLUMN PLAN

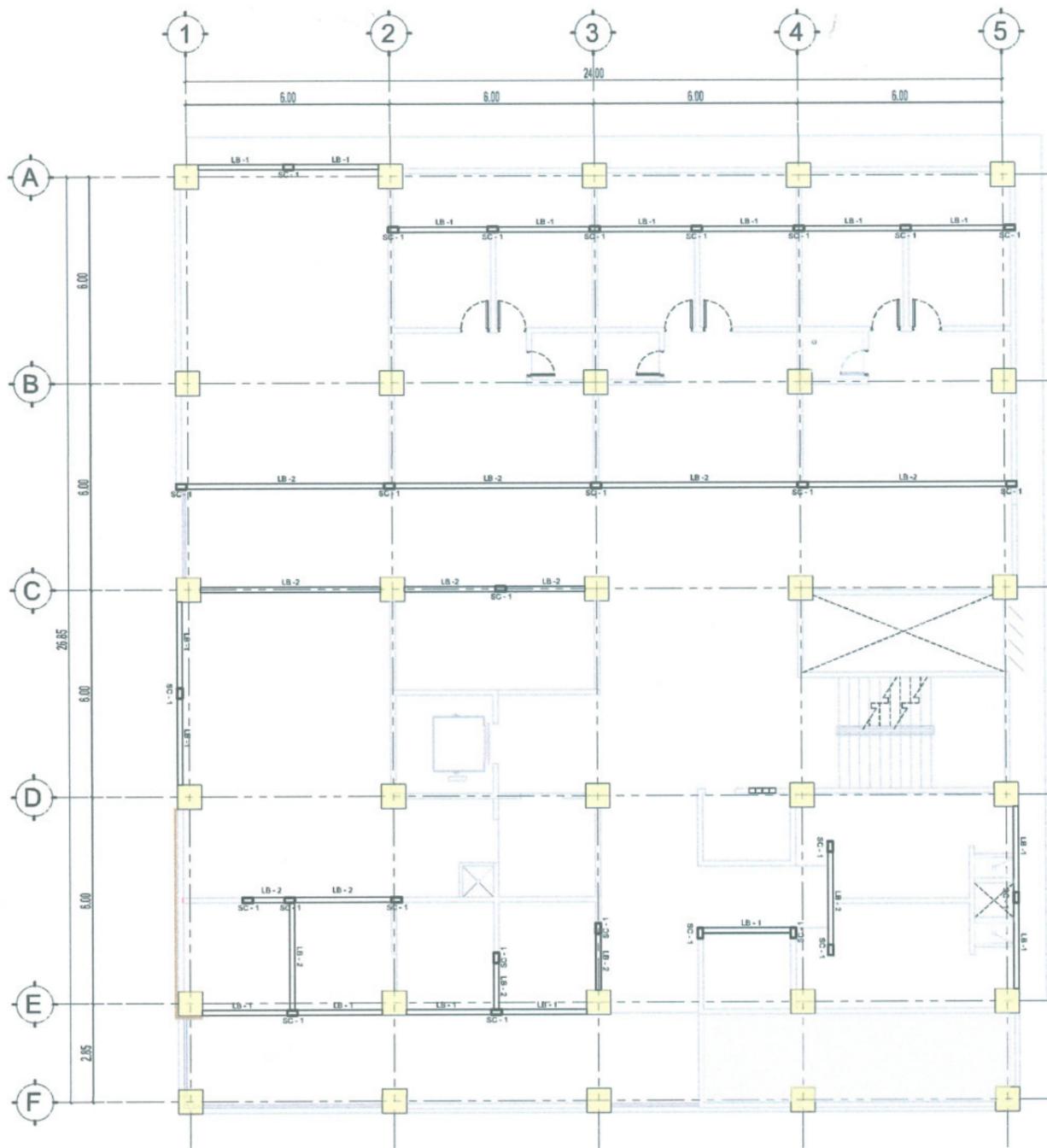
SCALE 1:175 M



SECOND FLOOR LINTEL BEAM & STIFFENER COLUMN PLAN

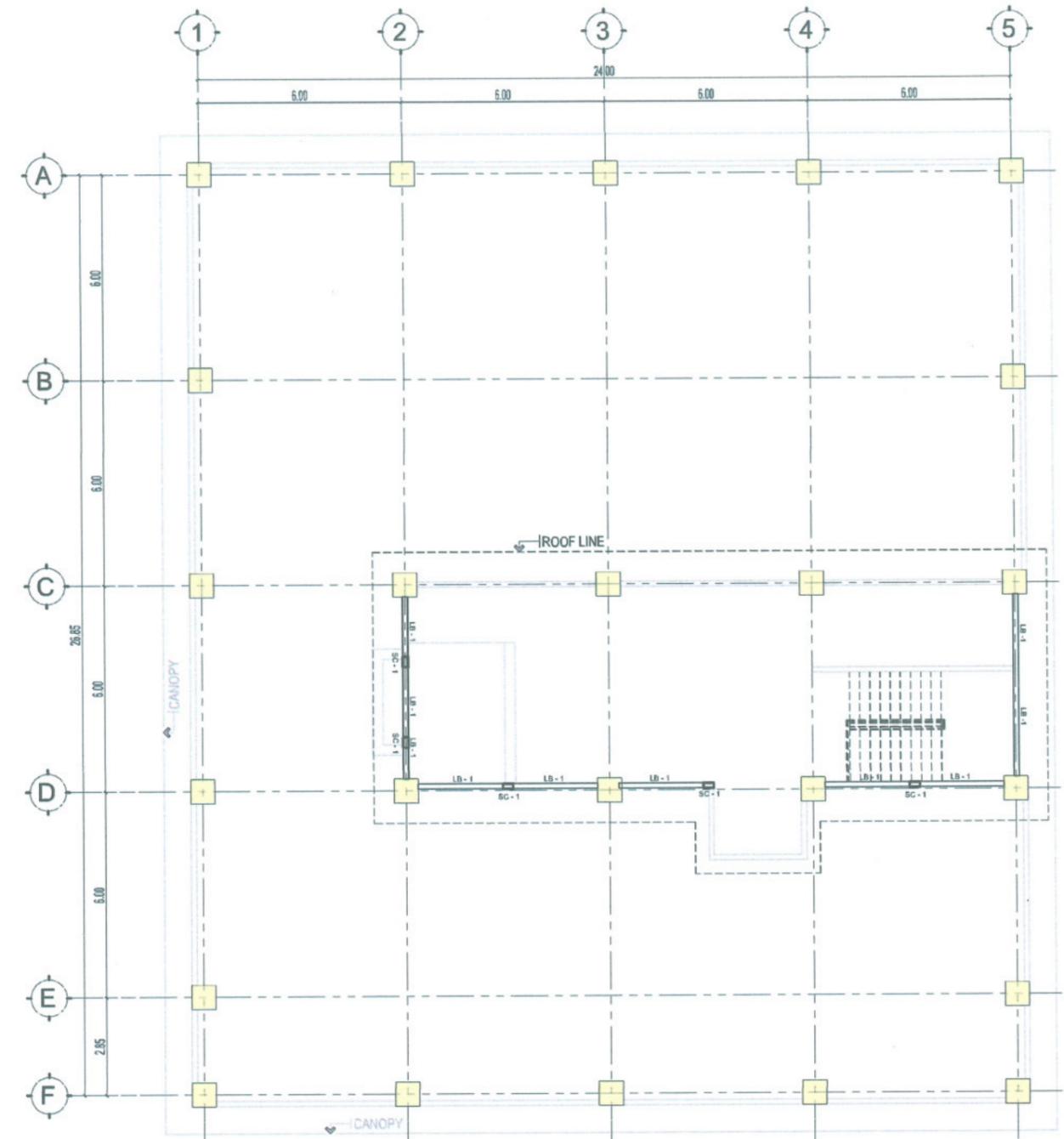
SCALE 1:175 M

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|  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 1) | PREPARED BY: AR. ALDRIN S. DOMINIANO <small>CHIEF ARCHITECT, OFDM-POU</small> | CHECKED BY:  AR. CHERRY L. FABIANES <small>HEAD, OFDM-POU</small> | CERTIFIED BY:  AR. ARLEN M. GUIEB <small>DIRECTOR, OFDM</small> | REQUESTING OFFICE:  DR. LEO P. PIAO <small>DIRECTOR, CENTER FOR SOLAR AND EMERGING TECHNOLOGY</small> | RECOMMENDING APPROVAL:  ATTY. GHEROLD D. BENITEZ <small>VP FOR ADMINISTRATION</small> | APPROVED:  DR. ARNOLD E. VELASCO <small>PRESIDENT</small> | SHEET CONTENTS: AS SHOWN | SHEET NO: S-15 PAGE NO: 51/99 |
| | PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY | ENGR. ALEXANDER JOHN S. TABAQUERO <small>CHIEF ARCHITECT, OFDM-POU</small> | DATE: 2025 | | | | | | |



THIRD FLOOR LINTEL BEAM & STIFFENER COLUMN PLAN

SCALE 1:175 M

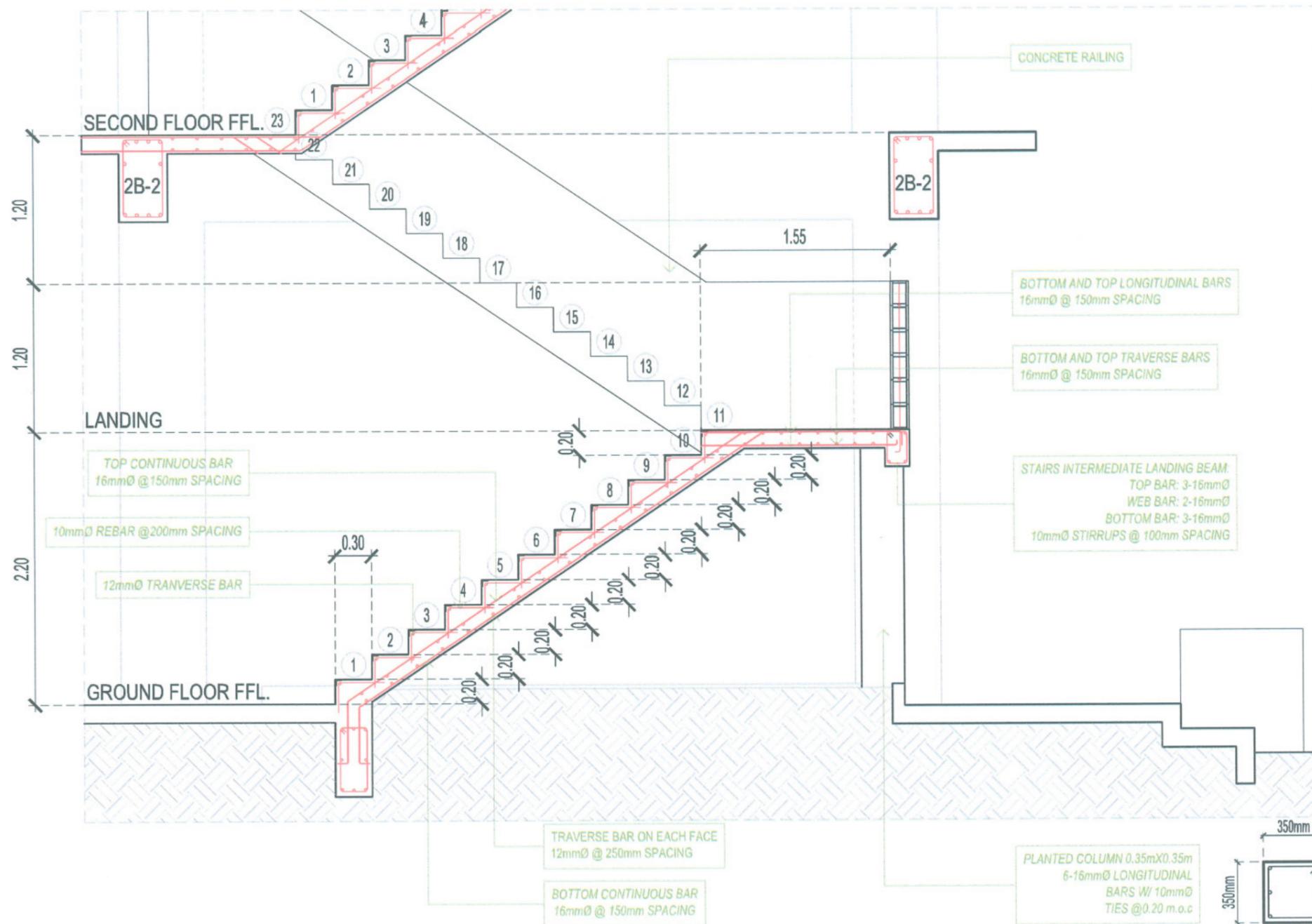


ROOF DECK LINTEL BEAM & STIFFENER COLUMN PLAN

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 1) | PREPARED BY: | AR. ALONSO P. ERMITAÑO | CHECKED BY: | AR. CHERRY L. FABIANES | CERTIFIED BY: | AR. ARLEN M. GUIEB | REQUESTING OFFICE: | DR. LEO P. PIAO | RECOMMENDING APPROVAL: | ATTY. GHEROLD J. BENITEZ | APPROVED: | DR. ARNOLD E. VELASCO | SHEET CONTENTS: | AS SHOWN | SHEET NO.: | S-16 |
| | PROJECT LOCATION: | SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY | ENGR. ALEXANDER JOHN S. TABAQUERO | HEAD, OFDM-PDU | DIRECTOR, OFDM | DIRECTOR, CENTER FOR SOLAR AND EMERGING TECHNOLOGY | VP FOR ADMINISTRATION | PRESIDENT | DATE: 2025 | 52/99 | | | | | | | | |



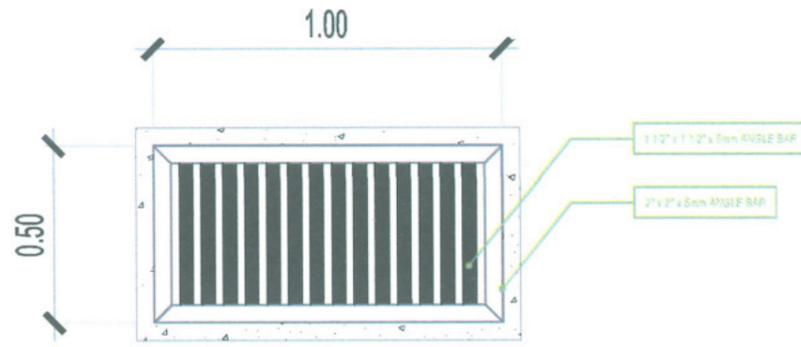
STAIR 01 BLOW-UP SECTION

SCALE 1:250 M

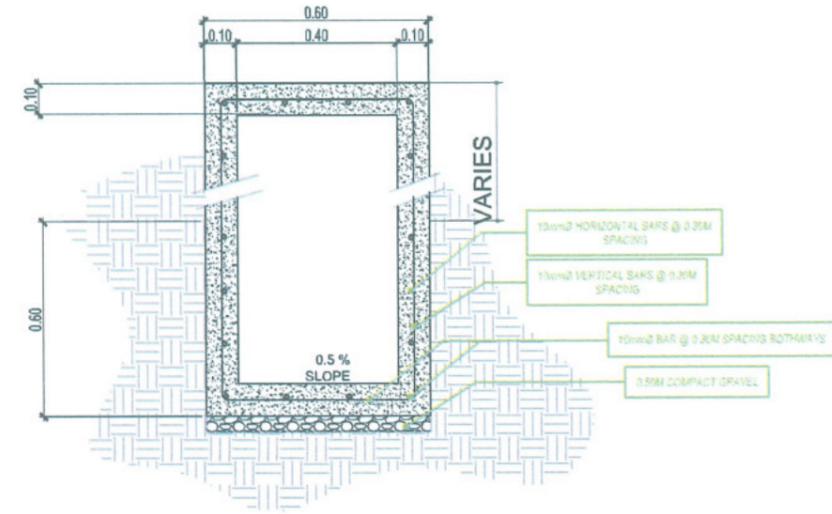


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Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

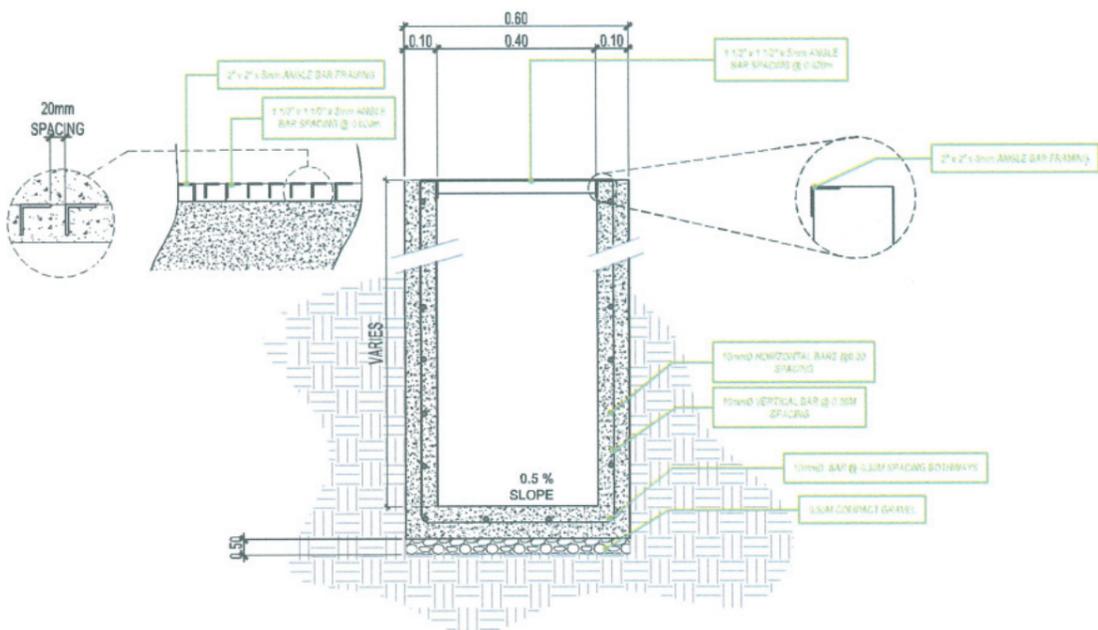
| PROJECT TITLE: | PREPARED BY: | CHECKED BY: | CERTIFIED BY: | REQUESTING OFFICE: | RECOMMENDING APPROVAL: | APPROVED: | SHEET CONTENTS: | SHEET NO.: |
|---|---|---|--|---|---|---|-----------------|----------------|
| CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE 1) | AR. ALEXANDER ERIBEN ANIDO <i>(Signature)</i> | AR. CHERRY L. FABIANES <i>(Signature)</i> | AR. ARLEN M. GUIEB <i>(Signature)</i> | DR. LEO P. PIAO <i>(Signature)</i> | ATTY. CHEROLD C. BENITEZ <i>(Signature)</i> | DR. ARNOLD E. VELASCO <i>(Signature)</i> | AS SHOWN | S-17 |
| PROJECT LOCATION: | ENGR. ALEXANDER JOHN S. TABAQUERO <i>(Signature)</i> | ENGR. ALEXANDER JOHN S. TABAQUERO CIVIL ENGINEER, OFDM-MBU | AR. ARLEN M. GUIEB DIRECTOR, OFDM | DR. LEO P. PIAO DIRECTOR, CENTER FOR SOLAR AND EMERGING TECHNOLOGY | ATTY. CHEROLD C. BENITEZ VP FOR ADMINISTRATION | DR. ARNOLD E. VELASCO PRESIDENT | DATE: 2025 | PAGE NO. 53/99 |



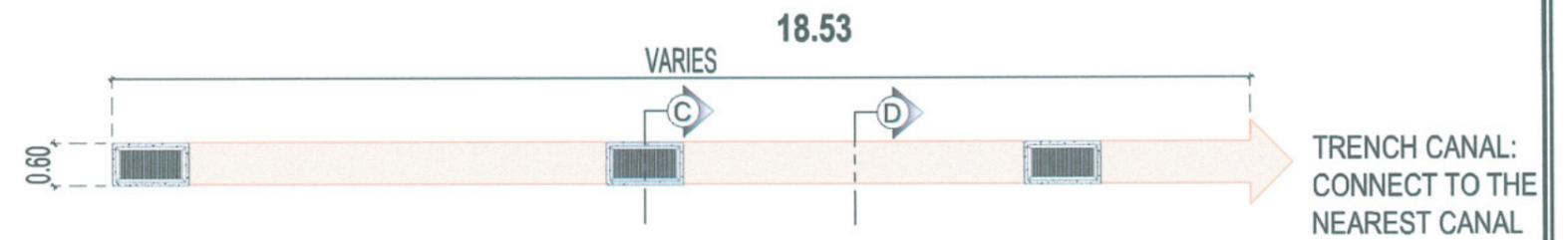
DRAINAGE COVER DETAIL
SCALE: 1:20M



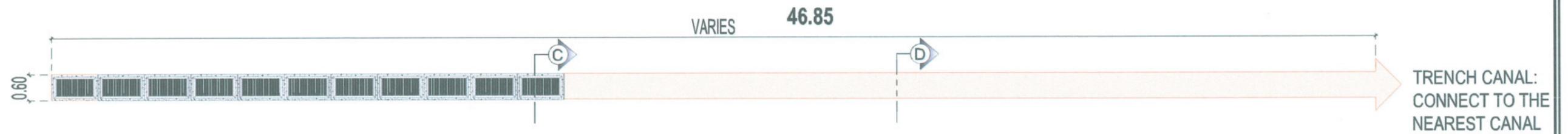
CONCRETE DRAINAGE SECTION THRU D
SCALE: 1:40M



CONCRETE DRAINAGE SECTION THRU C
SCALE: 1:40M



PROPOSED CLOSED CONCRETE DRAINAGE PLAN (RIGHT SIDE)
SCALE: 1:40M

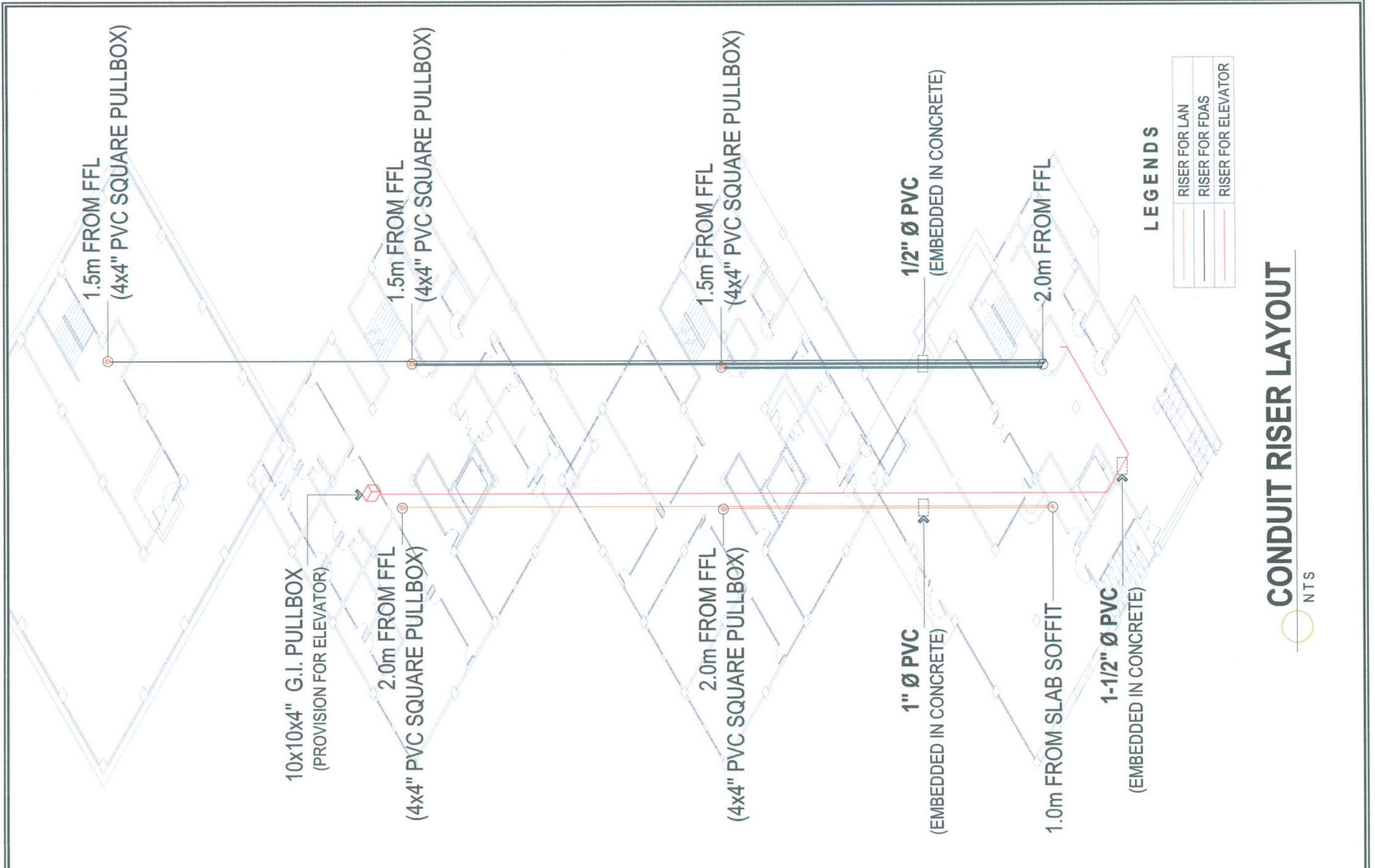


PROPOSED CLOSED CONCRETE DRAINAGE PLAN (LEFT SIDE)
SCALE: 1:40M



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

| | | | | | | | | |
|---|---|---|---|---|--|---|---|--|
| PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE 1) | PREPARED BY: AR. ALDRIN S. FERDINAND DRAFTSMAN (REGISTERED) | CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU | CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM | REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CENTER FOR SOLAR AND EMERGING TECHNOLOGY | RECOMMENDING APPROVAL: ATTY. GHERON C. BENITEZ VP - ADMINISTRATION | APPROVED: DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: AS SHOWN DATE: 2025 | SHEET NO.: S-18 PAGE NO.: 54/99 |
|---|---|---|---|---|--|---|---|--|



LEGENDS

| | |
|--|--------------------|
| | RISER FOR LAN |
| | RISER FOR FDAS |
| | RISER FOR ELEVATOR |

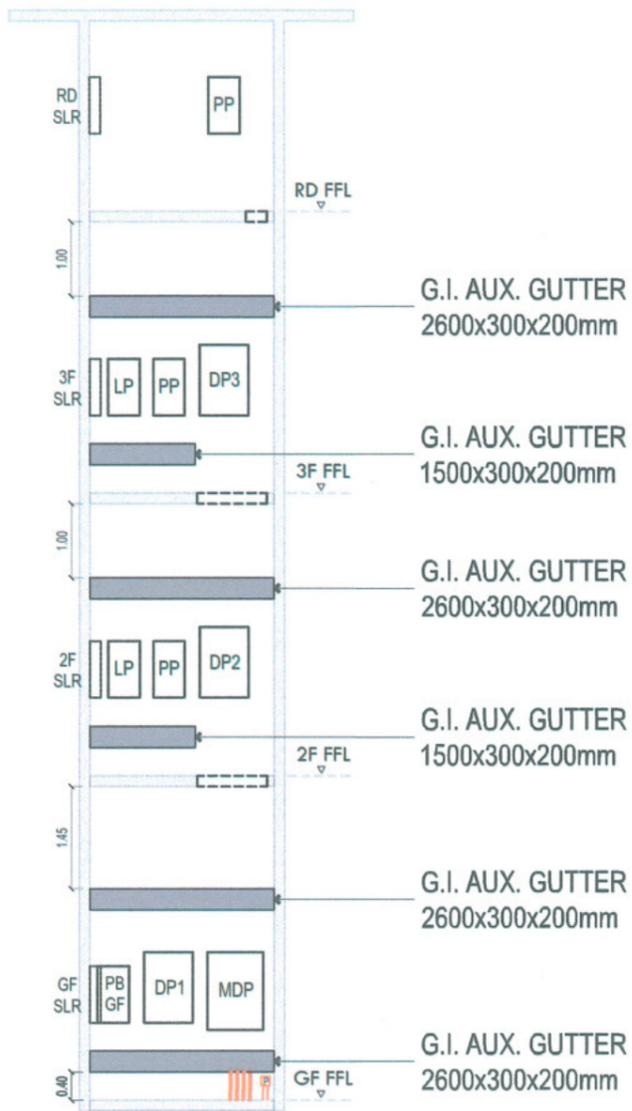
CONDUIT RISER LAYOUT

NTS

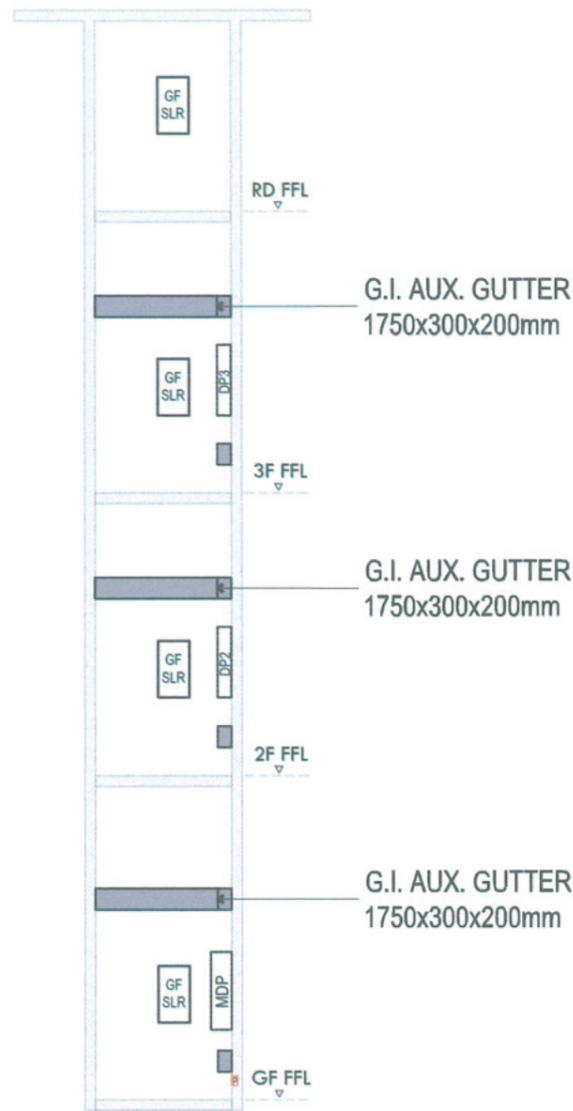


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Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

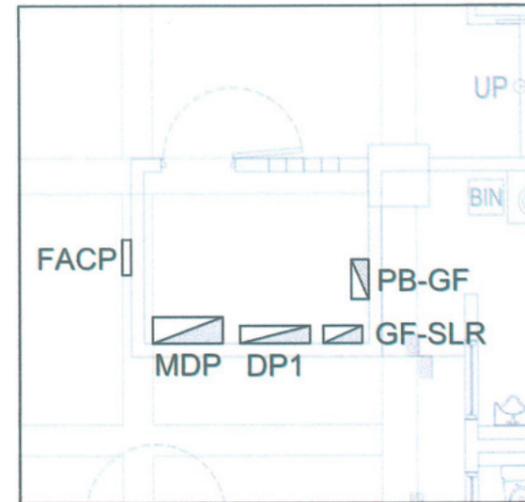
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|---|--|---|---|---|--|---|---|--|
| PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER | CERTIFIED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU | CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM | REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET | RECOMMENDING APPROVAL: ATTY. GHERALD C. BENITEZ OFFICE OF ADMINISTRATION | APPROVED: DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: AS SHOWN DATE: 2025 | SHEET NO: E-03 PAGE NO: 57/99 |
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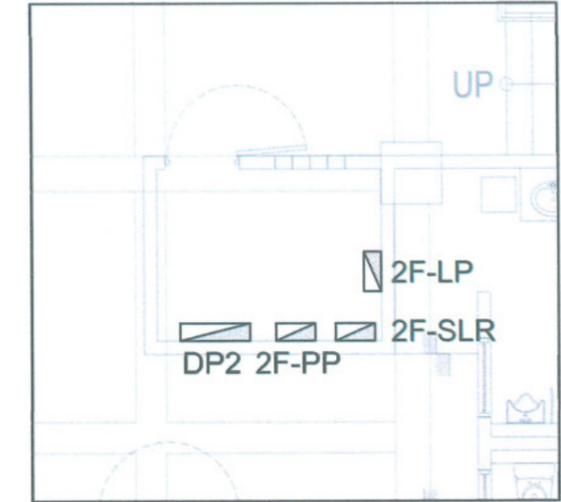
ELECTRICAL ROOM
FRONT ELEVATION



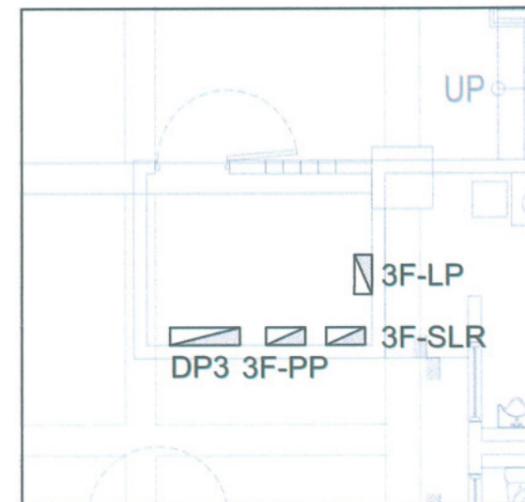
ELECTRICAL ROOM
SIDE ELEVATION



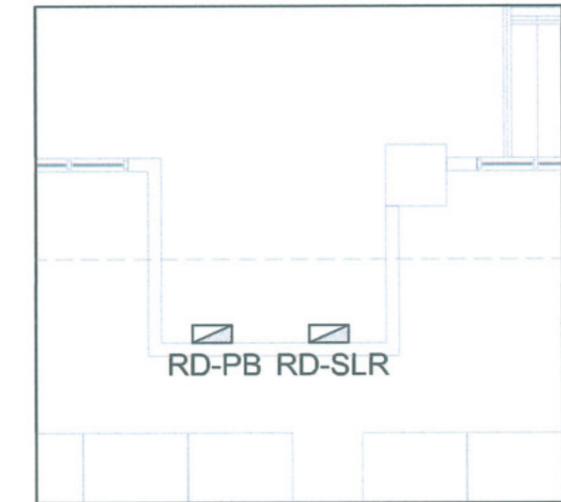
ELECTRICAL ROOM
(GROUND FLOOR)



ELECTRICAL ROOM
(SECOND FLOOR)



ELECTRICAL ROOM
(THIRD FLOOR)



ELECTRICAL ROOM
(ROOF DECK)

IMPORTANT NOTE:

- PANELBOARDS ARE FOR REFERENCE ONLY AND NOT PART OF THE CONTRACT.
- VERIFY ON SITE THE FOR THE ACTUAL SIZES OF GUTTERS.



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

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

PREPARED BY:

ENGR. MARK JOMELLE O. NATIVIDAD
ELECTRICAL ENGINEER

CERTIFIED 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:

ATTY. GHEROLD C. BENITEZ
FOR ADMINISTRATION

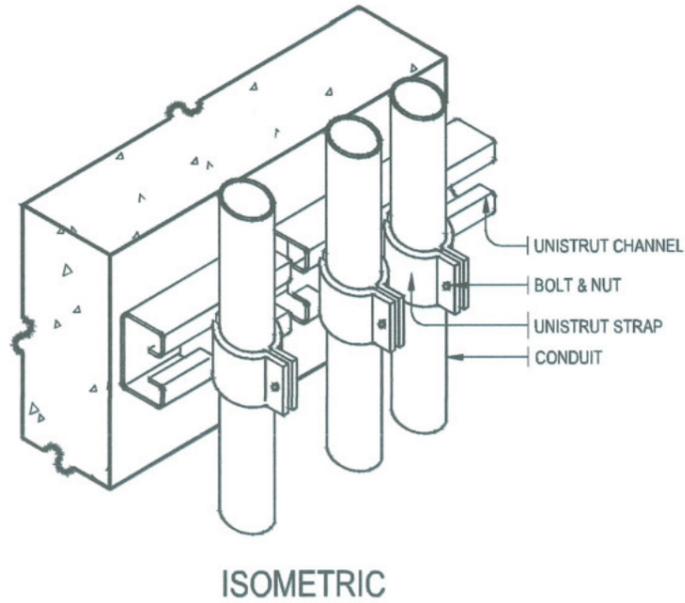
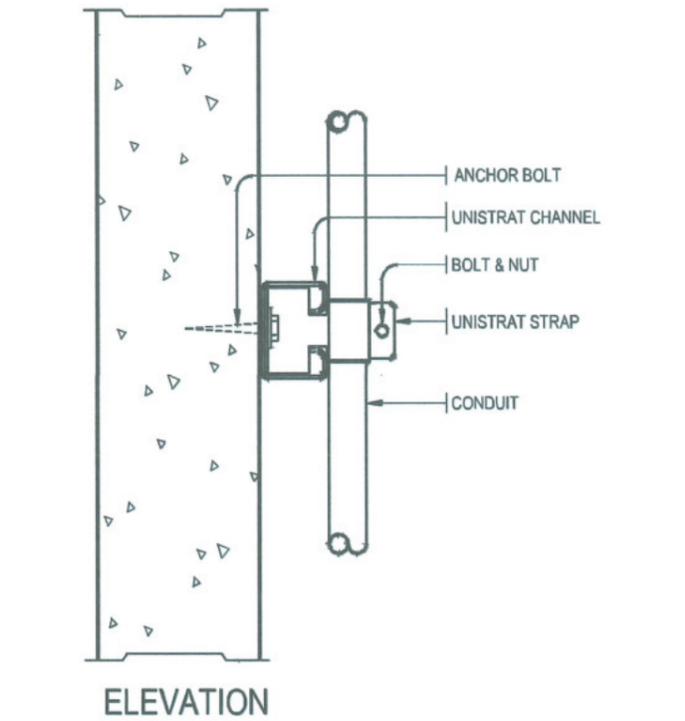
APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

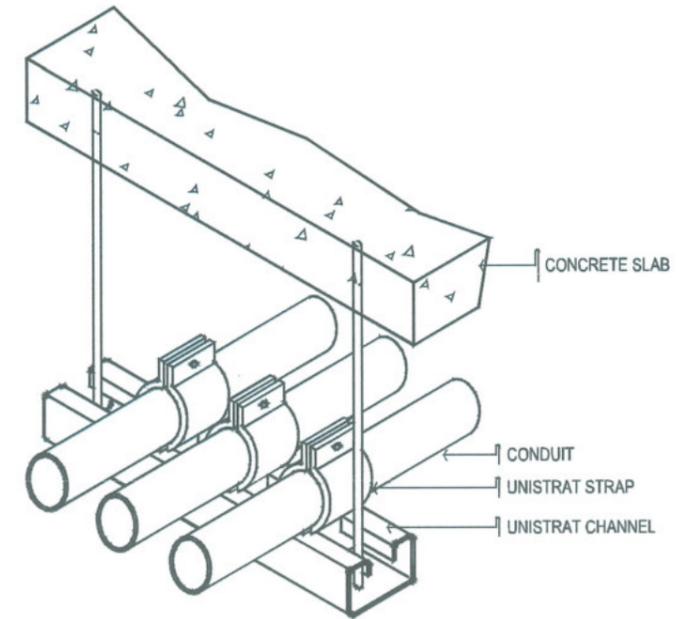
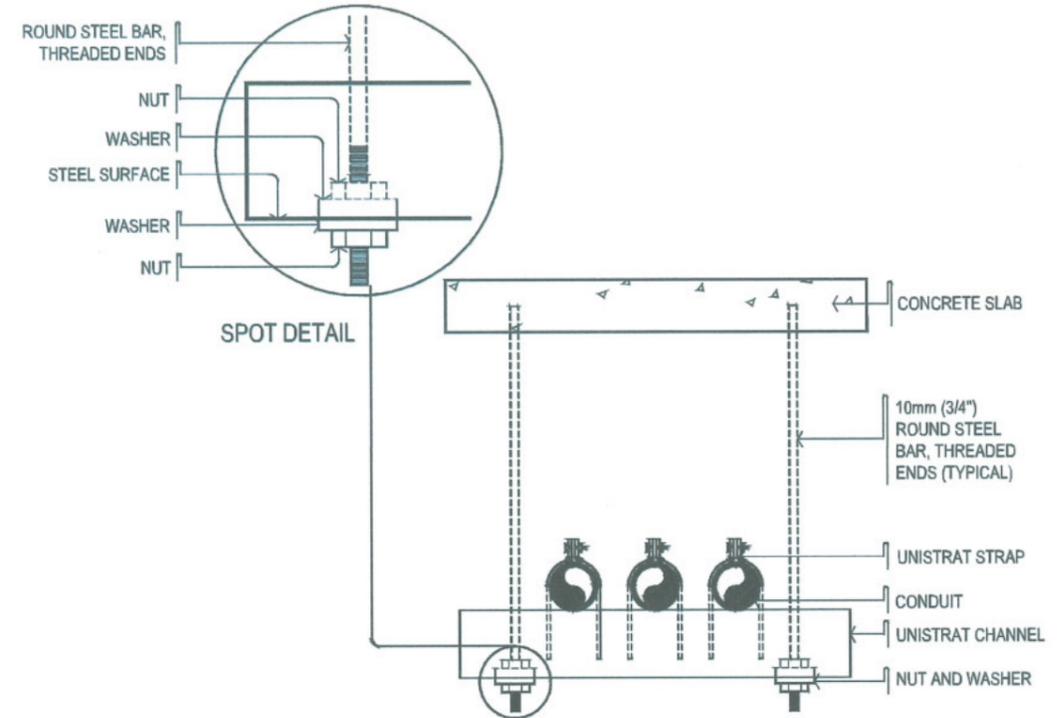
SHEET CONTENTS:
AS SHOWN
DATE: 2025

SHEET NO:
E-04
PAGE NO:
58/99

NOTE:
- THIS DETAIL IS FOR EXPOSED PIPING ONLY



VERTICAL RUN CONDUIT TYPICAL SUPPORT DETAIL
NTS



HORIZONTAL RUN CONDUIT TYPICAL SUPPORT DETAIL
NTS



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Facilities Development and
Management Office
Remulo Boulevard, Tarlac City, Philippines 2300

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

PREPARED BY:

ENGR. MARK JOMELLE O. NATIVIDAD
ELECTRICAL ENGINEER

CERTIFIED 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:

ATTY. GHEROLD C. BENITEZ
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

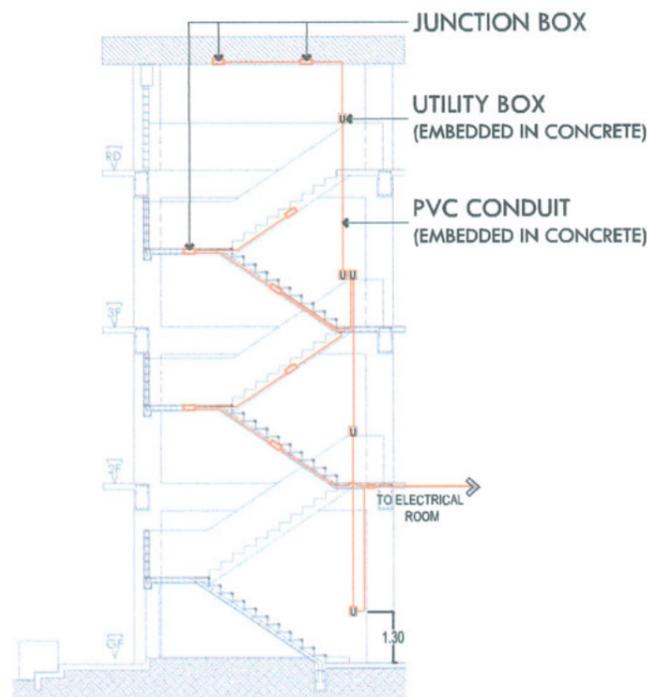
SHEET NO:
E-05
PAGE NO:
59/99

LEGENDS / SYMBOL

| | | | |
|-----------|--|-----------|-------------|
| | PVC JUNCTION BOX W/ COVER | | |
| | PVC UTILITY BOX W/ COVER | | |
| | PVC RISER UP/DOWN / STUB-OUT | | |
| | 3/4" Ø PVC CONDUIT | | |
| | 3/4" Ø PVC CONDUIT (PROVISION FOR SOLAR) | | |
| | HOMERUN | | |
| GF | GROUND FLOOR | 3F | THIRD FLOOR |
| 2F | 2ND FLOOR | RD | ROOF DECK |

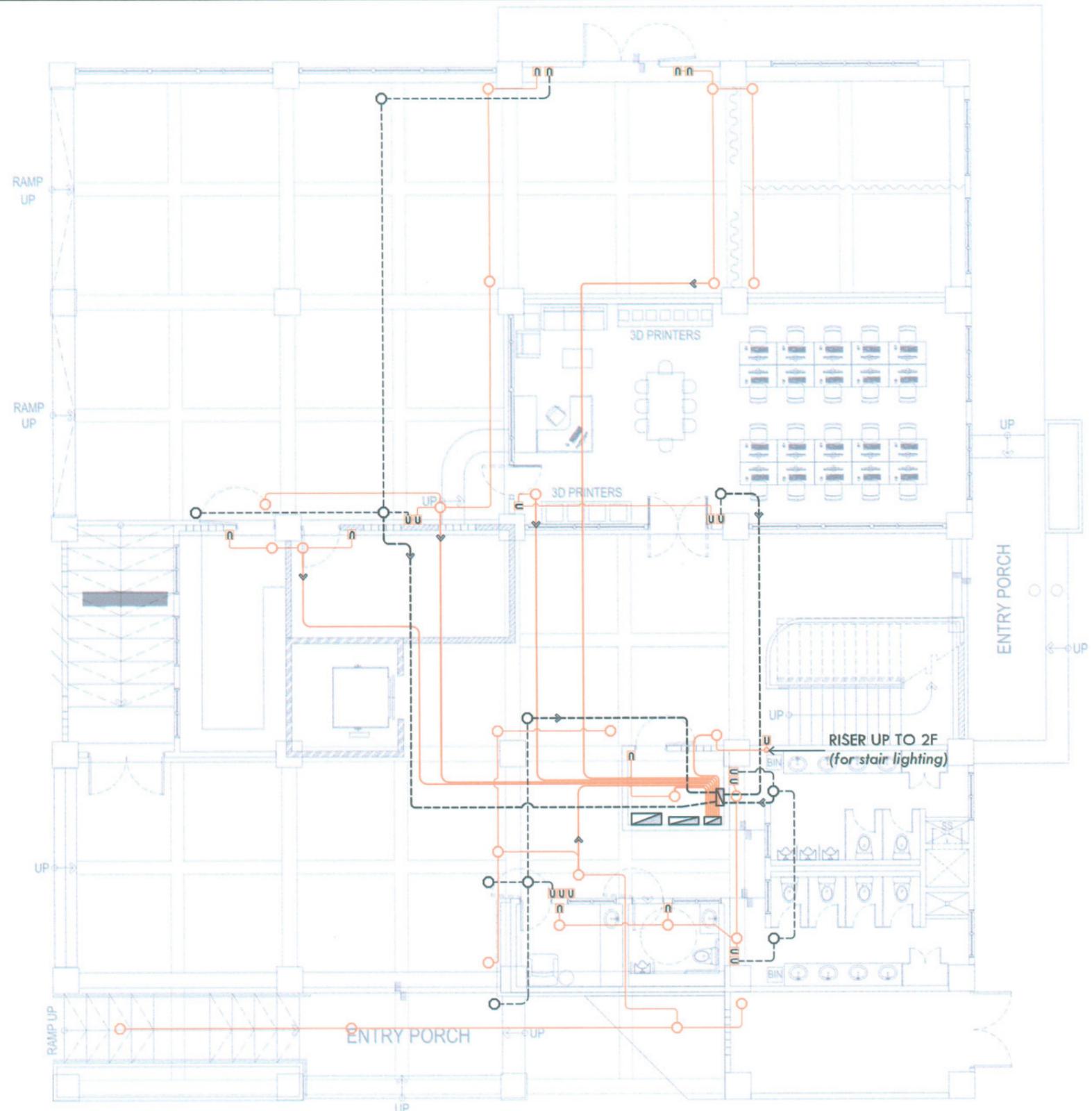
IMPORTANT NOTES:

- **3/4" Ø PVC CONDUIT** SHALL BE USED FOR LIGHTING ROUGH-INS UNLESS SPECIFIED.
- EACH CONDUIT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- PVC ROUGH-INS HOMERUN SHALL EXTEND A MINIMUM OF 1 METER ABOVE/BELOW THE SLAB.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.
- UTILITY BOXES SHALL BE EMBEDDED IN THE WALL
- UTILITY BOXES FOR LIGHTING SWITCHES SHALL BE INSTALLED 1.3m FROM FFL ON CENTER.



STAIR LIGHTING DETAIL

NTS



LIGHTING ROUGHING-INS LAYOUT

GROUND FLOOR

SCALE 1 : 130 MTS



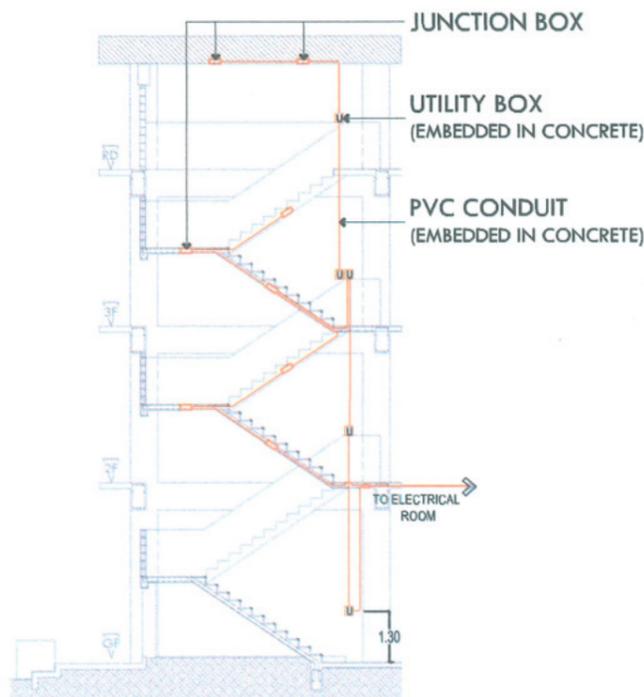
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|--|-------------------|---|--------------|--|---------------|--|---------------|--------------------------------------|--------------------|-----------------------------------|------------------------|--|-----------|------------------------------------|-----------------|------------|------------|-------|
| TARLAC STATE UNIVERSITY Facilities Development and Management Office <small>Romulo Boulevard, Tarlac City, Philippines 2300</small> | PROJECT TITLE: | CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: | ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER | CERTIFIED 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: | ATTY. GHERO C. BENITEZ OFFICE OF ADMINISTRATION | APPROVED: | DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: | AS SHOWN | SHEET NO.: | E-06 |
| | PROJECT LOCATION: | SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY | | | | | | | | | | | | | | DATE: 2025 | PAGE NO.: | 60/99 |

LEGENDS / SYMBOL

| | | | |
|-----------|--|-----------|-------------|
| | PVC JUNCTION BOX W/ COVER | | |
| | PVC UTILITY BOX W/ COVER | | |
| | PVC RISER UP/DOWN / STUB-OUT | | |
| | 3/4" Ø PVC CONDUIT | | |
| | 3/4" Ø PVC CONDUIT (PROVISION FOR SOLAR) | | |
| | HOMERUN | | |
| GF | GROUND FLOOR | 3F | THIRD FLOOR |
| 2F | 2ND FLOOR | RD | ROOF DECK |

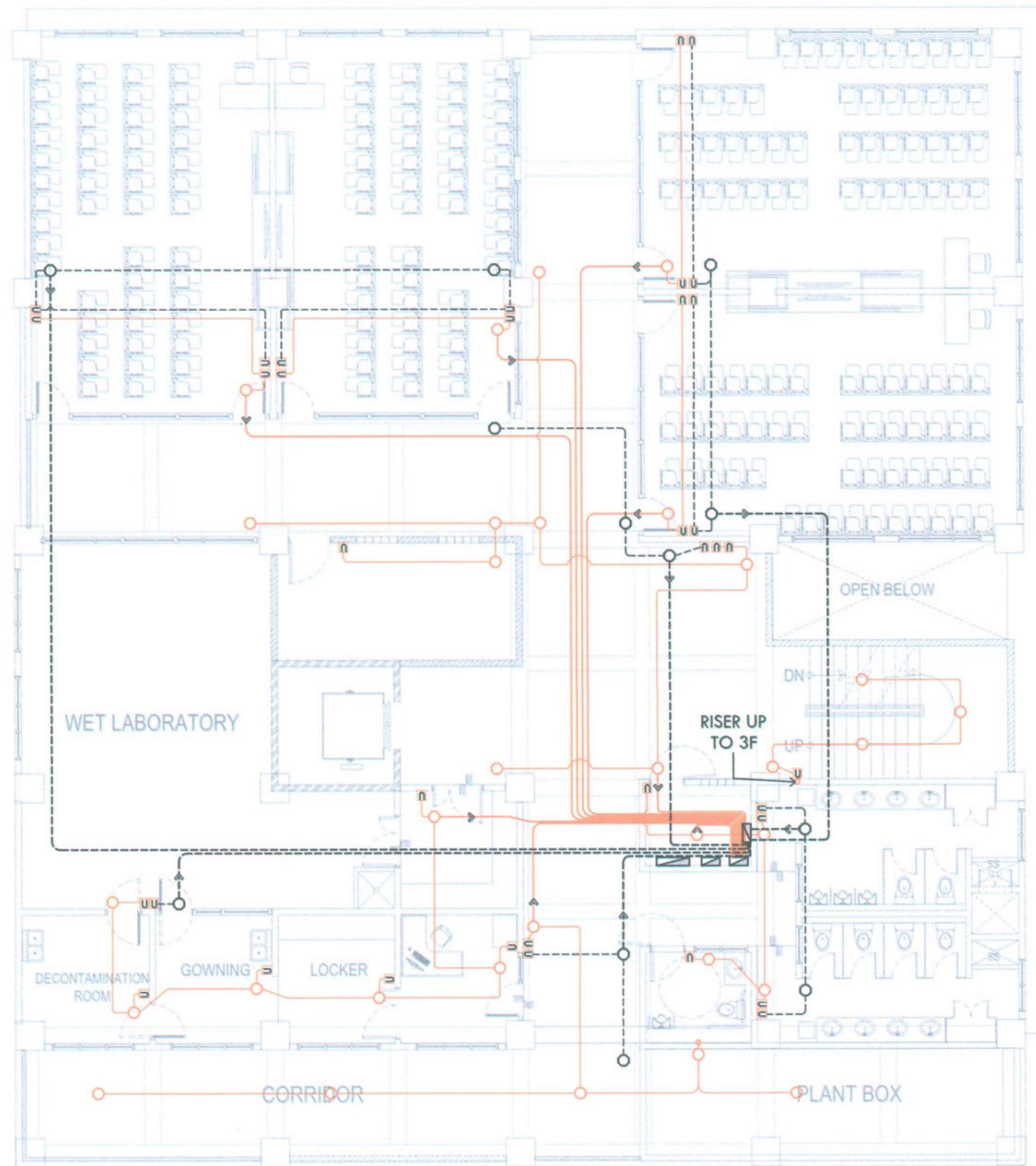
IMPORTANT NOTES:

- **3/4" Ø PVC CONDUIT** SHALL BE USED FOR LIGHTING ROUGH-INS UNLESS SPECIFIED.
- EACH CONDUIT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- PVC ROUGH-INS HOMERUN SHALL EXTEND A MINIMUM OF 1 METER ABOVE/BELOW THE SLAB.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.
- UTILITY BOXES SHALL BE EMBEDDED IN THE WALL
- UTILITY BOXES FOR LIGHTING SWITCHES SHALL BE INSTALLED 1.3m FROM FFL ON CENTER.



STAIR LIGHTING DETAIL

NTS



LIGHTING ROUGHING-INS LAYOUT

SECOND FLOOR

SCALE 1 : 130 MTS



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

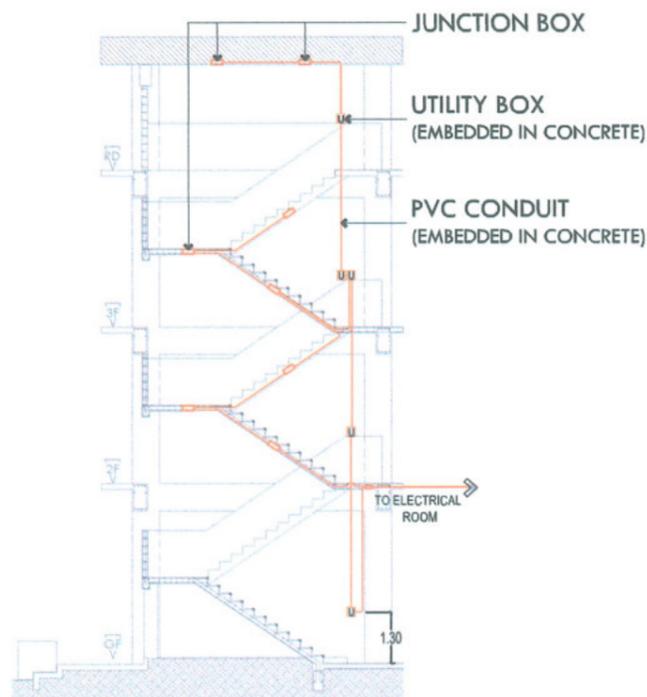
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|--|---|--|--------------------------------------|-----------------------------------|--|------------------------------------|-----------------------------|-------------------|
| PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: | CERTIFIED BY: | CERTIFIED BY: | REQUESTING OFFICE: | RECOMMENDING APPROVAL: | APPROVED: | SHEET CONTENTS: AS SHOWN | SHEET NO: E-07 |
| PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY | ENGR. MARK JOMELLE O. NATIMDAD ELECTRICAL ENGINEER | AR. CHERRY L. FABIANES HEAD, OFDM-PDU | AR. ARLEN M. GUIEB DIRECTOR, OFDM | DR. LEO P. PIAO DIRECTOR, CSET | ATTY. GHEROLD C. BENITEZ FOR ADMINISTRATION | DR. ARNOLD E. VELASCO PRESIDENT | DATE: 2025 | PAGE NO: 61/99 |

LEGENDS / SYMBOL

| | | | |
|-----------|--|-----------|-------------|
| | PVC JUNCTION BOX W/ COVER | | |
| | PVC UTILITY BOX W/ COVER | | |
| | PVC RISER UP/DOWN / STUB-OUT | | |
| | 3/4" Ø PVC CONDUIT | | |
| | 3/4" Ø PVC CONDUIT (PROVISION FOR SOLAR) | | |
| | HOMERUN | | |
| GF | GROUND FLOOR | 3F | THIRD FLOOR |
| 2F | 2ND FLOOR | RD | ROOF DECK |

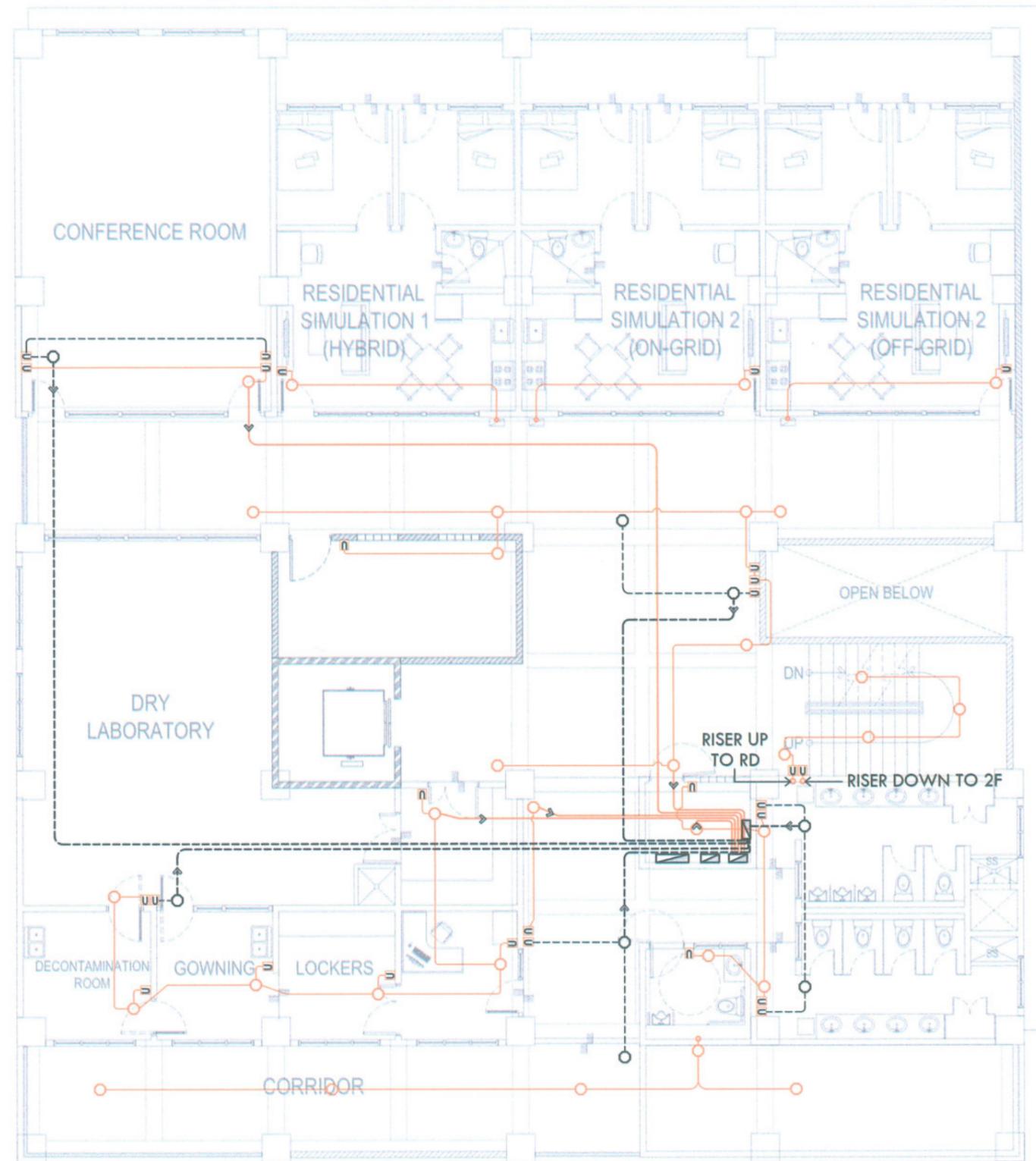
IMPORTANT NOTES:

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- EACH CONDUIT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- PVC ROUGH-INS HOMERUN SHALL EXTEND A MINIMUM OF 1 METER ABOVE/BELOW THE SLAB.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.
- UTILITY BOXES SHALL BE EMBEDDED IN THE WALL
- UTILITY BOXES FOR LIGHTING SWITCHES SHALL BE INSTALLED 1.3m FROM FFL ON CENTER.



STAIR LIGHTING DETAIL

NTS



LIGHTING ROUGHING-INS LAYOUT

THIRD FLOOR

SCALE 1 : 130 MTS



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

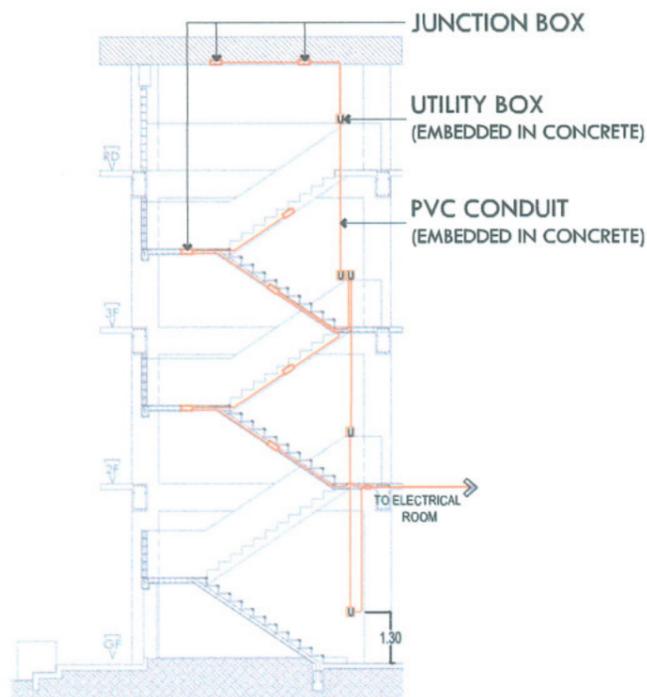
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|---|--|---|---|---|--|--|---|--|
| PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER | CERTIFIED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU | CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM | REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET | RECOMMENDING APPROVAL: ATTY. GHERON C. BENITEZ VP FOR ADMINISTRATION | APPROVED: DR. ARNOLD E. VELASCO RESIDENT | SHEET CONTENTS: AS SHOWN DATE: 2025 | SHEET NO: E-08 PAGE NO: 62/99 |
|---|--|---|---|---|--|--|---|--|

LEGENDS / SYMBOL

| | | | |
|-----------|--|-----------|-------------|
| ○ | PVC JUNCTION BOX W/ COVER | | |
| U | PVC UTILITY BOX W/ COVER | | |
| ○ | PVC RISER UP/DOWN / STUB-OUT | | |
| — | 3/4" Ø PVC CONDUIT | | |
| - - - - | 3/4" Ø PVC CONDUIT (PROVISION FOR SOLAR) | | |
| → | HOMERUN | | |
| GF | GROUND FLOOR | 3F | THIRD FLOOR |
| 2F | 2ND FLOOR | RD | ROOF DECK |

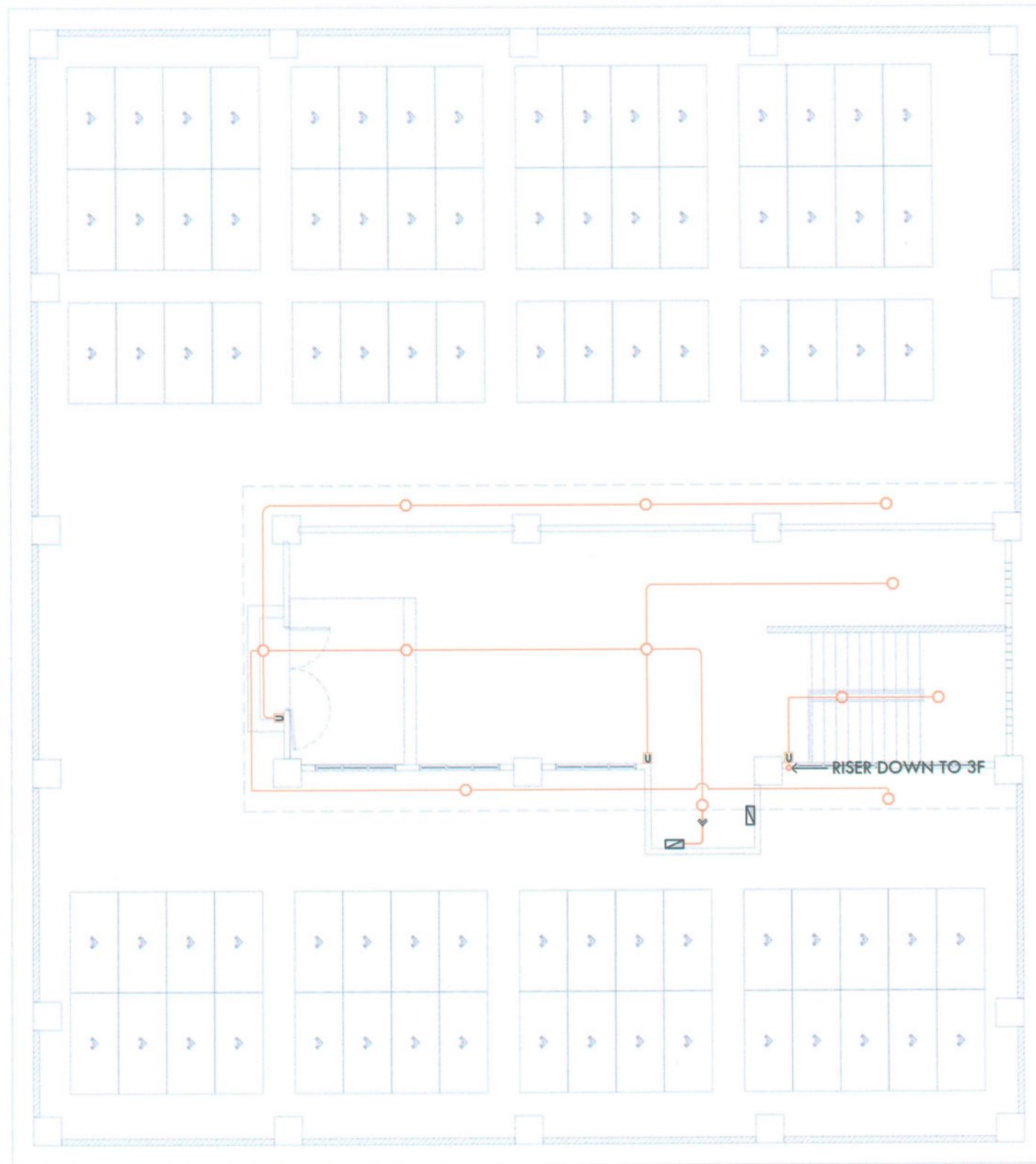
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- UTILITY BOXES FOR LIGHTING SWITCHES SHALL BE INSTALLED 1.3m FROM FFL ON CENTER.



STAIR LIGHTING DETAIL

NTS



LIGHTING ROUGHING-INS LAYOUT

ROOF DECK

SCALE 1 : 130 MTS



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Facilities Development and Management Office
Remulo Boulevard, Tarlac City, Philippines 2300

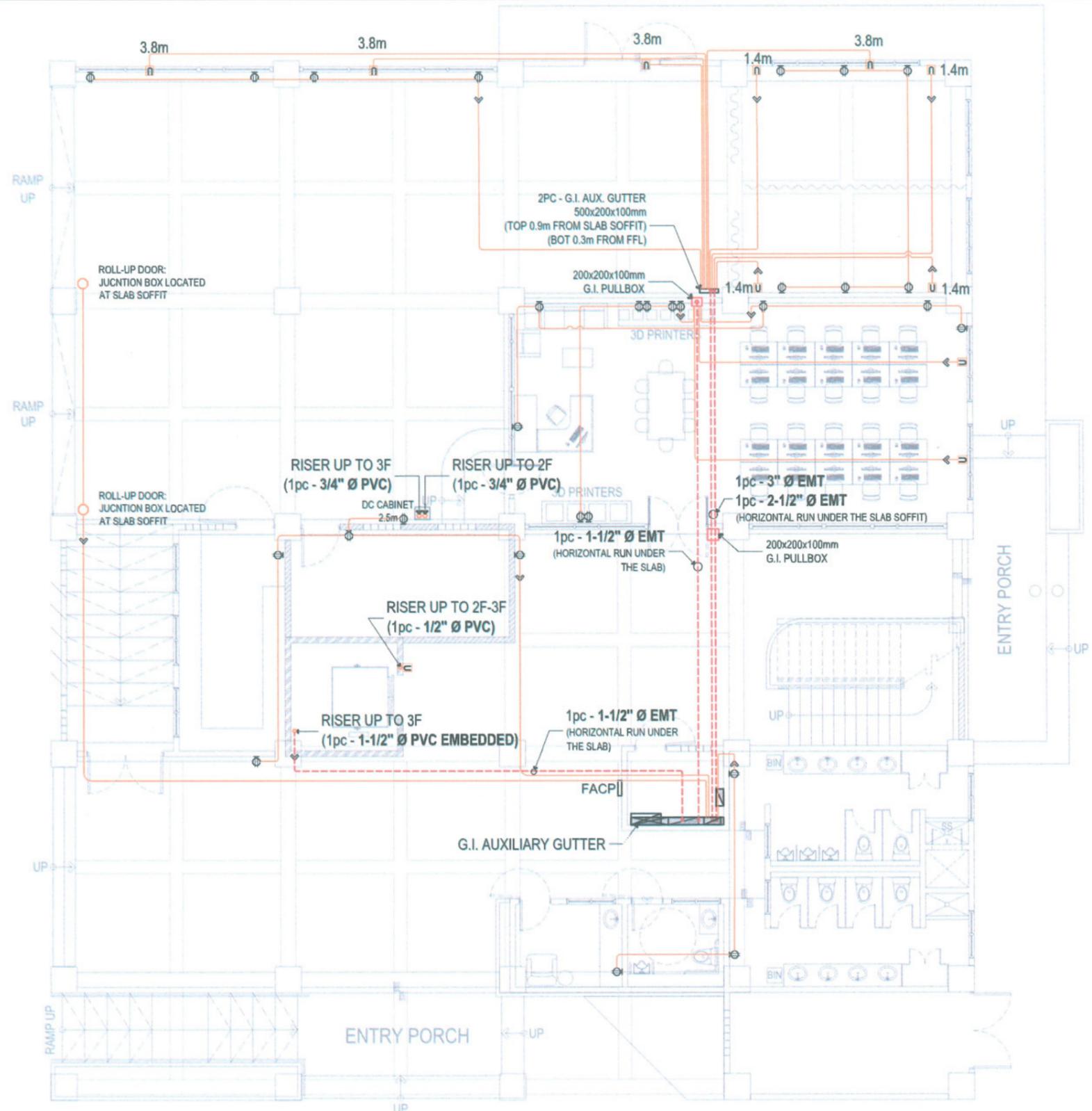
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|---|---|---|---|---|--|---|---|--|
| PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: ENGR. MARK JOMELLE O. NATWIDAD ELECTRICAL ENGINEER | CERTIFIED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU | CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM | REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET | RECOMMENDING APPROVAL: ATTY. GHEROL D.C. BENITEZ VP FOR ADMINISTRATION | APPROVED: DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: AS SHOWN DATE: 2025 | SHEET NO: E-09 PAGE NO: 63/99 |
|---|---|---|---|---|--|---|---|--|

LEGENDS

| | | | |
|----|----------------------------------|----|-------------|
| ⊕ | PROVISION FOR CONVENIENCE OUTLET | | |
| U | PVC UTILITY BOX W/ COVER | | |
| ○ | PVC RISER UP/DOWN / STUB-OUT | | |
| → | HOMERUN | | |
| GF | GROUND FLOOR | 3F | THIRD FLOOR |
| 2F | 2ND FLOOR | RD | ROOF DECK |

IMPORTANT NOTES:

- **1/2" Ø PVC CONDUIT** SHALL BE USED FOR CONVENIENCE OUTLET ROUGH-INS UNLESS SPECIFIED.
- OTHER CONDUIT SIZES AND SET ARE REFLECTED IN THE PLAN.
- EACH CONDUIT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- PVC ROUGH-INS HOMERUN SHALL EXTEND A MINIMUM OF 1 METER ABOVE/BELOW THE SLAB.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.
- UTILITY BOXES SHALL BE EMBEDDED IN THE WALL
- UTILITY BOXES FOR CONVENIENCE OUTLET SHALL BE INSTALLED 0.3m FROM FFL ON CENTER UNLESS SPECIFIED IN THE PLAN.
- PROVIDE A CONCRETE SLEEVE(FOR ELECTRICAL PIPE CHASE) FOR 2ND AND 3RD FLOOR. REFER TO THE DETAIL FOR REFERENCE.



POWER ROUGHING-INS LAYOUT

GROUND FLOOR

SCALE 1 : 130 MTS



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

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

PREPARED BY:

ENGR. MARK JOMELLE O. NATIVIDAD
ELECTRICAL ENGINEER

CERTIFIED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:

AR. ARLEN M. GUIOB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. LEO P. PIAO
DIRECTOR, CSET

RECOMMENDING APPROVAL:

ATTY. GHEROLD C. BENITEZ
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

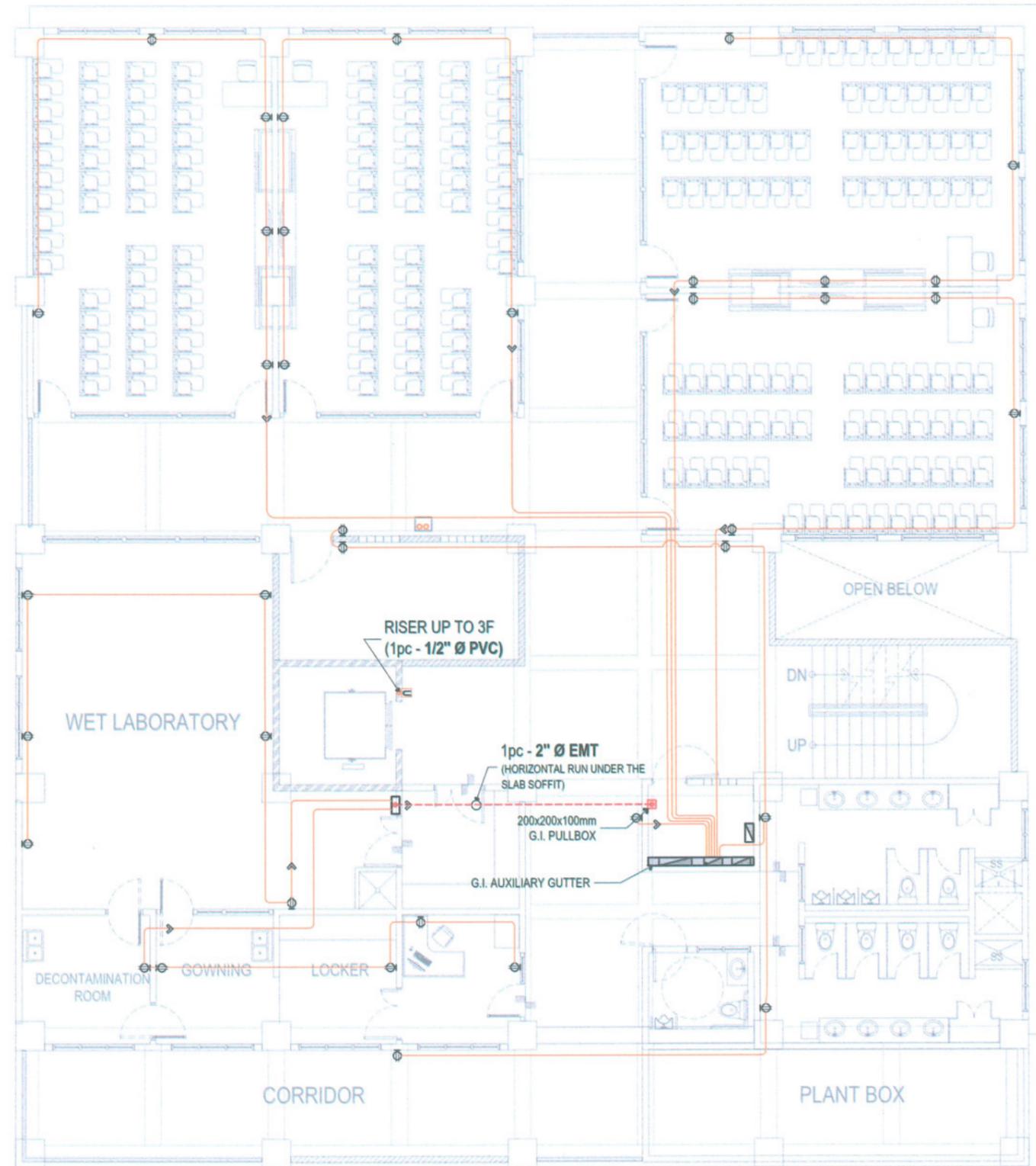
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| SHEET CONTENTS: | SHEET NO: |
| AS SHOWN | E-10 |
| DATE: 2025 | PAGE NO: |
| | 64/99 |

LEGENDS

| | | | |
|----|----------------------------------|----|-------------|
| ⊕ | PROVISION FOR CONVENIENCE OUTLET | | |
| U | PVC UTILITY BOX W/ COVER | | |
| ○ | PVC RISER UP/DOWN / STUB-OUT | | |
| → | HOMERUN | | |
| GF | GROUND FLOOR | 3F | THIRD FLOOR |
| 2F | 2ND FLOOR | RD | ROOF DECK |

IMPORTANT NOTES:

- **1/2" Ø PVC CONDUIT** SHALL BE USED FOR CONVENIENCE OUTLET ROUGH-INS UNLESS SPECIFIED.
- OTHER CONDUIT SIZES AND SET ARE REFLECTED IN THE PLAN.
- EACH CONDUIT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- PVC ROUGH-INS HOMERUN SHALL EXTEND A MINIMUM OF 1 METER ABOVE/BELOW THE SLAB.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.
- UTILITY BOXES SHALL BE EMBEDDED IN THE WALL
- UTILITY BOXES FOR CONVENIENCE OUTLET SHALL BE INSTALLED 0.3m FROM FFL ON CENTER UNLESS SPECIFIED IN THE PLAN.
- PROVIDE A CONCRETE SLEEVE(FOR ELECTRICAL PIPE CHASE) FOR 2ND AND 3RD FLOOR. REFER TO THE DETAIL FOR REFERENCE.



POWER ROUGHING-INS LAYOUT

SECOND FLOOR

SCALE 1 : 130 MTS



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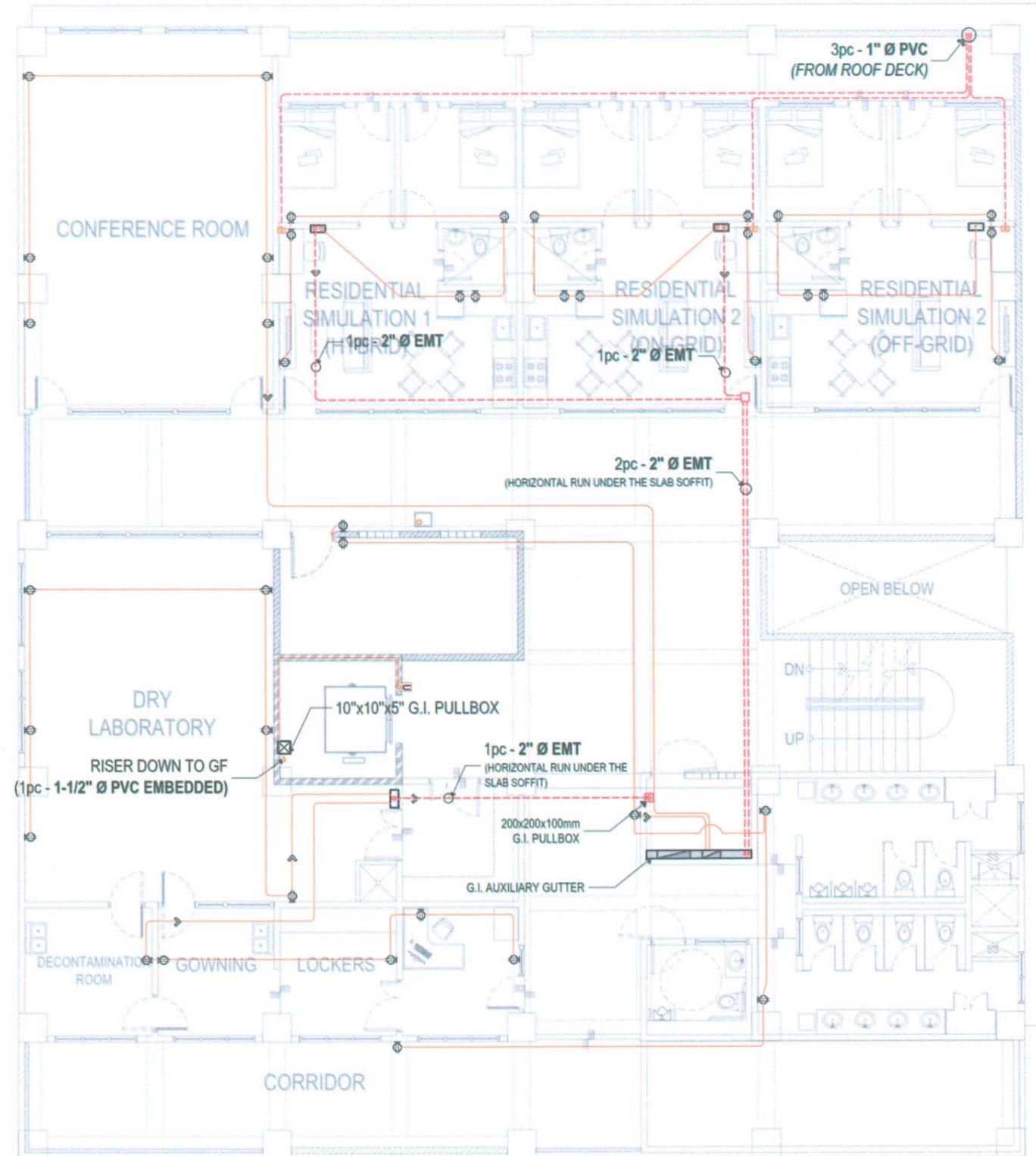
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| PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER | CERTIFIED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU | CERTIFIED BY: AR. ARLEN M. GUIOB DIRECTOR, OFDM | REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET | RECOMMENDING APPROVAL: ATTY. GHEROLD C. BENITEZ VP FOR ADMINISTRATION | APPROVED: DR. ARNOLD E. VELASCO RESIDENT | SHEET CONTENTS: AS SHOWN DATE: 2025 | SHEET NO: E-11 PAGE NO: 65/99 |
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LEGENDS

| | | | |
|----|----------------------------------|----|-------------|
| ⊕ | PROVISION FOR CONVENIENCE OUTLET | | |
| U | PVC UTILITY BOX W/ COVER | | |
| ○ | PVC RISER UP/DOWN / STUB-OUT | | |
| → | HOMERUN | | |
| GF | GROUND FLOOR | 3F | THIRD FLOOR |
| 2F | 2ND FLOOR | RD | ROOF DECK |

IMPORTANT NOTES:

- **1/2" Ø PVC CONDUIT** SHALL BE USED FOR CONVENIENCE OUTLET ROUGH-INS UNLESS SPECIFIED.
- OTHER CONDUIT SIZES AND SET ARE REFLECTED IN THE PLAN.
- EACH CONDUIT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- PVC ROUGH-INS HOMERUN SHALL EXTEND A MINIMUM OF 1 METER ABOVE/BELOW THE SLAB.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.
- UTILITY BOXES SHALL BE EMBEDDED IN THE WALL
- UTILITY BOXES FOR CONVENIENCE OUTLET SHALL BE INSTALLED 0.3m FROM FFL ON CENTER UNLESS SPECIFIED IN THE PLAN.
- PROVIDE A CONCRETE SLEEVE(FOR ELECTRICAL PIPE CHASE) FOR 2ND AND 3RD FLOOR. REFER TO THE DETAIL FOR REFERENCE.



POWER ROUGHING-INS LAYOUT

THIRD FLOOR

SCALE 1 : 130 MTS



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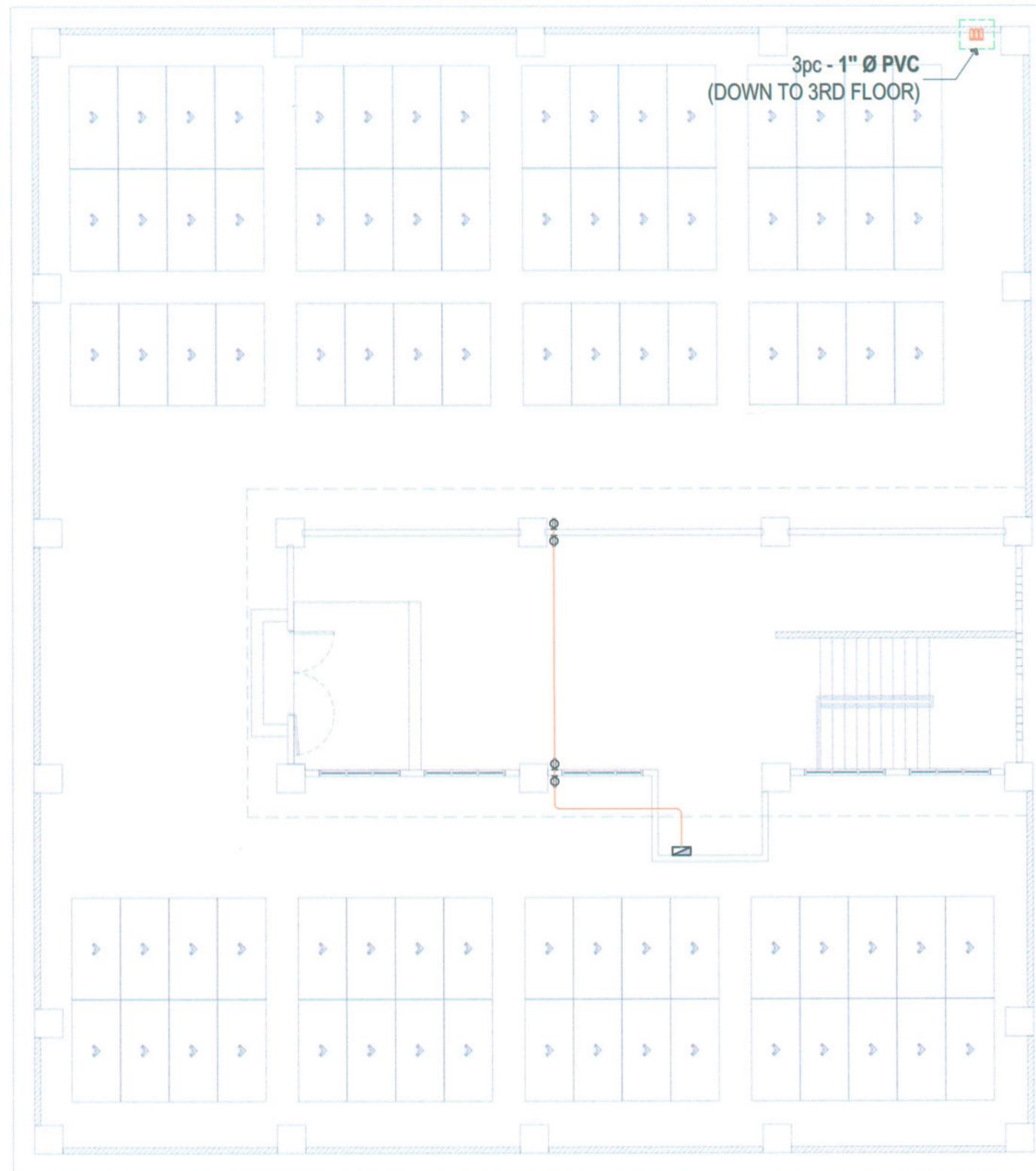
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| PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: ENGR. MARK JOMELLE O. NAVIDAD ELECTRICAL ENGINEER | CERTIFIED BY: AR. CHERRY L. FABIANES HEAD, OFOM-PDU | CERTIFIED BY: AR. ARLEN M. QUIAB DIRECTOR, OFOM | REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET | RECOMMENDING APPROVAL: ATTY. GEROLD C. BENITEZ VP FOR ADMINISTRATION | APPROVED: DR. ARNOLD E. VELASCO RESIDENT | SHEET CONTENTS: AS SHOWN DATE: 2025 | SHEET NO.: E-12 PAGE NO.: 66/99 |
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LEGENDS

| | | | |
|----|----------------------------------|----|-------------|
| ⊕ | PROVISION FOR CONVENIENCE OUTLET | | |
| U | PVC UTILITY BOX W/ COVER | | |
| ○ | PVC RISER UP/DOWN / STUB-OUT | | |
| → | HOMERUN | | |
| GF | GROUND FLOOR | 3F | THIRD FLOOR |
| 2F | 2ND FLOOR | RD | ROOF DECK |

IMPORTANT NOTES:

- **1/2" Ø PVC CONDUIT** SHALL BE USED FOR CONVENIENCE OUTLET ROUGH-INS UNLESS SPECIFIED.
- OTHER CONDUIT SIZES AND SET ARE REFLECTED IN THE PLAN.
- EACH CONDUIT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- PVC ROUGH-INS HOMERUN SHALL EXTEND A MINIMUM OF 1 METER ABOVE/BELOW THE SLAB.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.
- UTILITY BOXES SHALL BE EMBEDDED IN THE WALL
- UTILITY BOXES FOR CONVENIENCE OUTLET SHALL BE INSTALLED 0.3m FROM FFL ON CENTER UNLESS SPECIFIED IN THE PLAN.
- PROVIDE A CONCRETE SLEEVE(FOR ELECTRICAL PIPE CHASE) FOR 2ND AND 3RD FLOOR. REFER TO THE DETAIL FOR REFERENCE.



POWER ROUGHING-INS LAYOUT

ROOF DECK

SCALE 1 : 130 MTS



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Management Office
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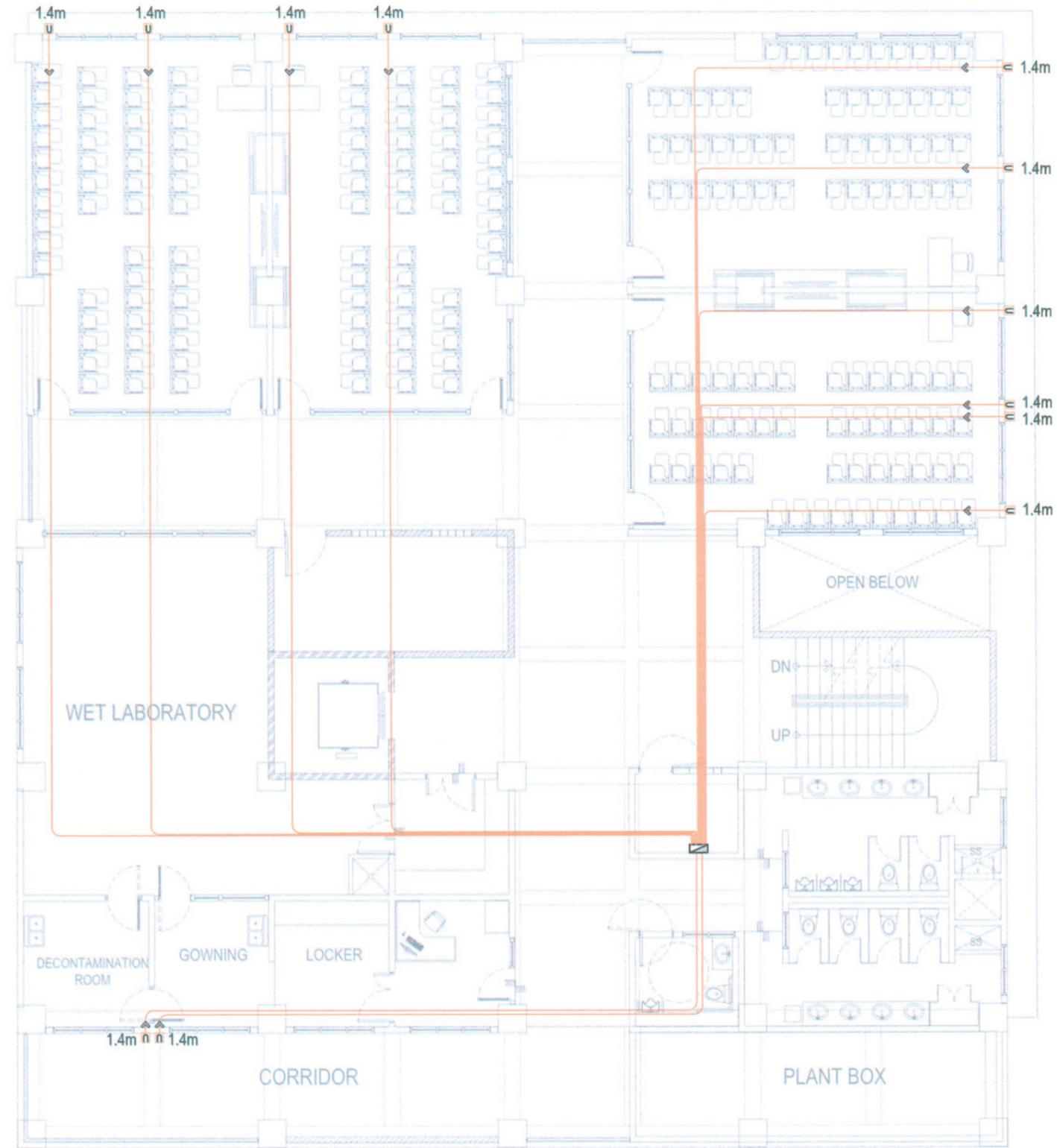
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| PROJECT TITLE: | CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: | ENGR. MARK JOWELLE O. NATIVIDAD ELECTRICAL ENGINEER | CERTIFIED BY: | AR. CHERRY L. FABIANES HEAD, OFDM-PDU | CERTIFIED BY: | AR. ARLEN M. GUIEB DIRECTOR, OFDM | REQUESTING OFFICE: | DR. LEO P. PIAO DIRECTOR, CSET | RECOMMENDING APPROVAL: | ATTY. CHERYL C. BENITEZ VP FOR ADMINISTRATION | APPROVED: | DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: | AS SHOWN | SHEET NO.: | E-13 |
| PROJECT LOCATION: | SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY | | | | | | | | | | | | | DATE: 2025 | | PAGE NO.: | 67/99 |

LEGENDS / SYMBOL

| | | | |
|-----------|------------------------------|-----------|-------------|
| U | PVC UTILITY BOX W/ COVER | | |
| ○ | PVC RISER UP/DOWN / STUB-OUT | | |
| → | HOMERUN | | |
| GF | GROUND FLOOR | 3F | THIRD FLOOR |
| 2F | 2ND FLOOR | RD | ROOF DECK |

IMPORTANT NOTES:

- **3/4" Ø PVC CONDUIT** SHALL BE USED FOR ACU ROUGH-INS UNLESS SPECIFIED.
- EACH CONDUIT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- PVC ROUGH-INS HOMERUN SHALL EXTEND A MINIMUM OF 1 METER ABOVE/BELOW THE SLAB.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.
- UTILITY BOXES SHALL BE EMBEDDED IN THE WALL
- UTILITY BOXES FOR ACU SHALL BE INSTALLED 1.4m FROM FFL ON CENTER FOR THE PROVISION OF NEMA-3R ENCLOSURE.



ACU ROUGHING-INS LAYOUT

SECOND FLOOR

SCALE 1 : 130 MTS



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

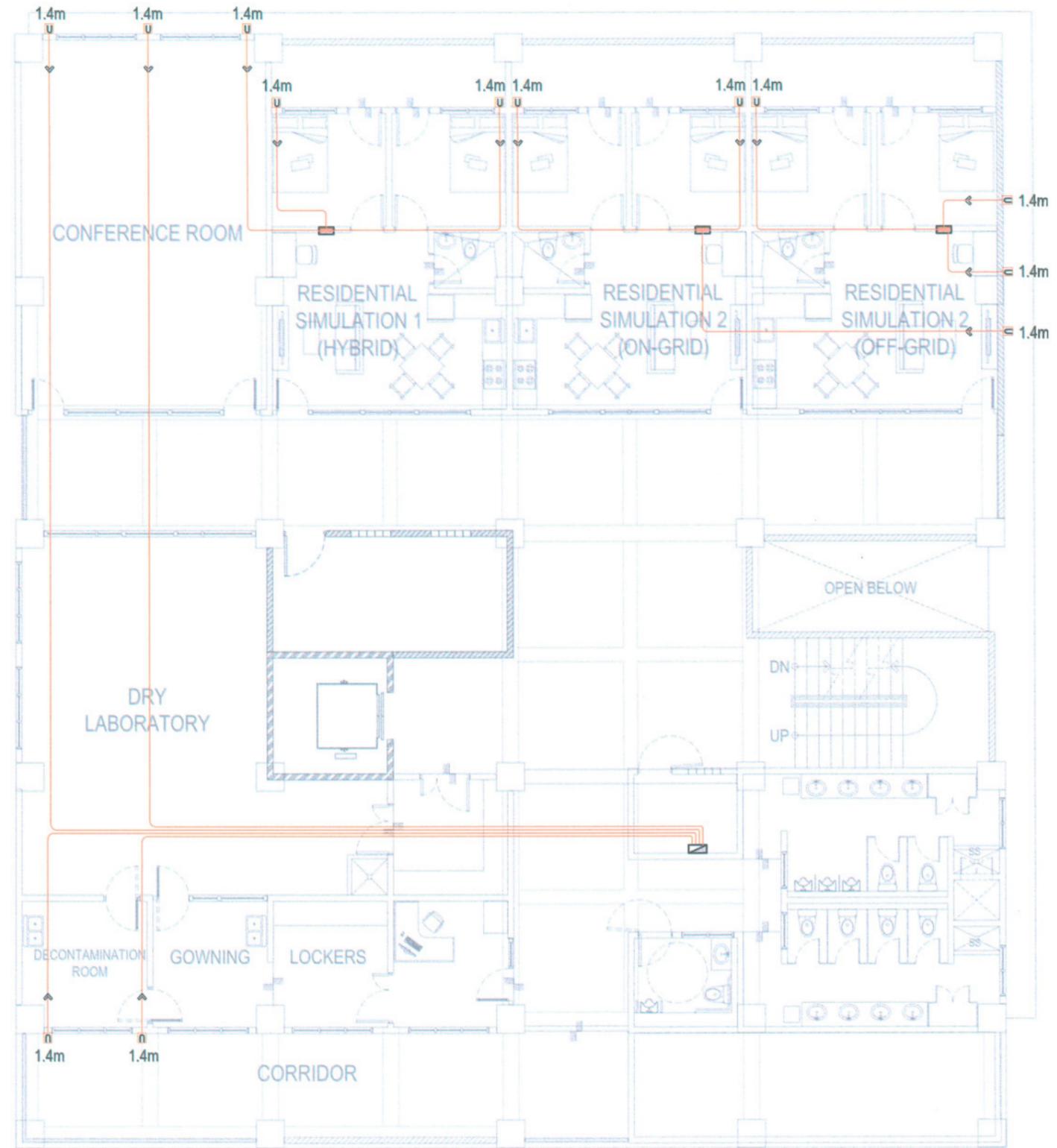
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| PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER | CERTIFIED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU | CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM | REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET | RECOMMENDING APPROVAL: ATTY. GHERALDO C. BENITEZ VP FOR ADMINISTRATION | APPROVED: DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: AS SHOWN DATE: 2025 | SHEET NO: E-15 PAGE NO: 69/99 |
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LEGENDS / SYMBOL

| | | | |
|-----------|------------------------------|-----------|-------------|
| U | PVC UTILITY BOX W/ COVER | | |
| ○ | PVC RISER UP/DOWN / STUB-OUT | | |
| → | HOMERUN | | |
| GF | GROUND FLOOR | 3F | THIRD FLOOR |
| 2F | 2ND FLOOR | RD | ROOF DECK |

IMPORTANT NOTES:

- **3/4" Ø PVC CONDUIT** SHALL BE USED FOR ACU ROUGH-INS UNLESS SPECIFIED.
- EACH CONDUIT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- PVC ROUGH-INS HOMERUN SHALL EXTEND A MINIMUM OF 1 METER ABOVE/BELOW THE SLAB.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.
- UTILITY BOXES SHALL BE EMBEDDED IN THE WALL
- UTILITY BOXES FOR ACU SHALL BE INSTALLED 1.4m FROM FFL ON CENTER FOR THE PROVISION OF NEMA-3R ENCLOSURE.



ACU ROUGHING-INS LAYOUT
 THIRD FLOOR SCALE 1 : 130 MTS



TARLAC STATE UNIVERSITY
 Facilities Development and
 Management Office
 Romulo Boulevard, Tarlac City, Philippines 3300

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| PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER | CERTIFIED 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: ATTY. GHENDOLD C. BENITEZ VP FOR ADMINISTRATION | APPROVED: DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: AS SHOWN DATE: 2025 | SHEET NO: E-16 PAGE NO: 70/99 |
|---|--|---|---|---|--|---|---|--|

LEGENDS / SYMBOL

| | | | |
|-----------|------------------------------|-----------|-------------|
| | PVC JUNCTION BOX W/ COVER | | |
| | PVC RISER UP/DOWN / STUB-OUT | | |
| | HOMERUN | | |
| GF | GROUND FLOOR | 3F | THIRD FLOOR |
| 2F | 2ND FLOOR | RD | ROOF DECK |

IMPORTANT NOTES:

- **1/2" Ø PVC CONDUIT** SHALL BE USED FOR FDAS ROUGH-INS UNLESS SPECIFIED.
- EACH CONDUIT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.



FDAS ROUGHING-INS LAYOUT
 GROUND FLOOR SCALE 1 : 130 MTS

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| TARLAC STATE UNIVERSITY Facilities Development and Management Office <small>Bonifacio Boulevard, Tarlac City, Philippines 2300</small> | PROJECT TITLE: | PREPARED BY: | CERTIFIED BY: | CERTIFIED BY: | REQUESTING OFFICE: | RECOMMENDING APPROVAL: | APPROVED: | SHEET CONTENTS: | SHEET NO.: |
| | CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | | | | DR. LEO P. PIAO DIRECTOR, CSET | | | AS SHOWN | E-17 |
| | PROJECT LOCATION: | ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER | AR. CHERRY L. FABIANES HEAD, OFDM-PDU | AR. ARLEN M. GRIEB DIRECTOR, OFDM | | ATTY. GHEROLD C. BENITEZ VP FOR ADMINISTRATION | DR. ARNOLD E. VELASCO PRESIDENT | DATE: 2025 | PAGE NO: 71/99 |

LEGENDS / SYMBOL

| | | | |
|-----------|------------------------------|-----------|-------------|
| ○ | PVC JUNCTION BOX W/ COVER | | |
| ○ | PVC RISER UP/DOWN / STUB-OUT | | |
| → | HOMERUN | | |
| GF | GROUND FLOOR | 3F | THIRD FLOOR |
| 2F | 2ND FLOOR | RD | ROOF DECK |

IMPORTANT NOTES:

- **1/2" Ø PVC CONDUIT** SHALL BE USED FOR FDAS ROUGH-INS UNLESS SPECIFIED.
- EACH CONDUIT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.



FDAS ROUGHING-INS LAYOUT

SECOND FLOOR

SCALE 1 : 130 MTS



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Facilities Development and
Management Office
Remulo Boulevard, Tarlac City, Philippines 2300

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|--|---|---|---|---|---|---|---|--|
| PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: ENGR. MARK JOMELLE O. NATWIDAD ELECTRICAL ENGINEER | CERTIFIED BY: AR. CHERRY L. FABIANES HEAD, OFDM-FDU | CERTIFIED BY: AR. ARLEN M. GUIAB DIRECTOR, OFDM | REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET | RECOMMENDING APPROVAL: ATTY. GHEROLD C. BENITEZ VP FOR ADMINISTRATION | APPROVED: DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: AS SHOWN DATE: 2025 | SHEET NO: E-18 PAGE NO: 72/99 |
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GENERAL NOTES:

1. GRADE OF HORIZONTAL PIPING
 RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT AT A UNIFORM GRADE OF NOT LESS THAN (2%) TWO PERCENT FOR PIPES SMALLER THAN 4" DIAMETER AND NOT LESS THAN (1%) ONE PERCENT FOR PIPES 4" DIAMETER AND LARGER

2. CHANGE OF DIRECTION
 ALL CHANGES IN DIRECTION SHALL BE MADE BY THE APPROPRIATE USE OF 45° WYE, LONG SWEEP, QUARTER BEND, SIXTH, EIGHT, SIXTEENTH BEND WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL, A SINGLE 1/8 BEND COMBINATION MAYBE USED ON WASTE LINE.

3. PROHIBITED FITTINGS
 NO DOUBLE TEE BRANCHES SHALL BE USED ON SOIL & WASTE LINES. DRILLING & TAPPING OF HOUSE DRAIN, WASTE PIPES OR USE OF SADDLE HUB AND BENDS ARE PROHIBITED.

4. SLEEVES
 PROVIDE PIPE SLEEVES AT WALL, COLUMN & SLAB ONE SIZE BIGGER THAN THE ACTUAL SIZE OF PIPE PASSING THRU WALLS OR UNDER SLAB TO PROTECT PIPES FROM BREAKAGE.

5. PIPE CLEANOUTS
 CLEANOUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS:

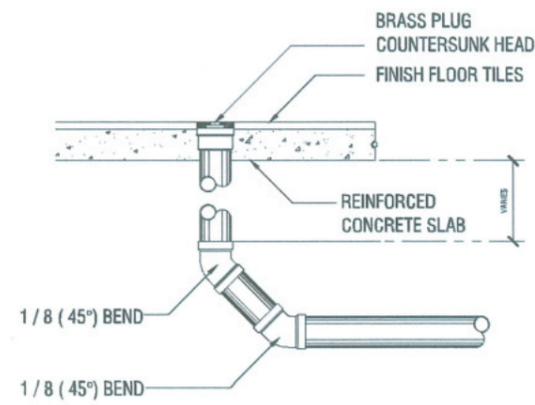
- A) EVERY CHANGE IN HORIZONTAL DIRECTION EXCEEDING TWENTY - TWO AND ONE - HALF DEGREES.
- B) ONE AND HALF METERS INSIDE THE PROPERTY LINE BEFORE THE HOUSE DRAINAGE CONNECTION.
- C) EVERY FIFTEEN METERS (15.00) IN HORIZONTAL RUN OF PIPES.
- D) AT THE END OF ANY HORIZONTAL PIPES.

6. DEAD ENDS AVOIDED:
 IN THE INSTALLATIONS OF PLUMBING SYSTEM, DEAD-END SHALL BE AVOIDED.

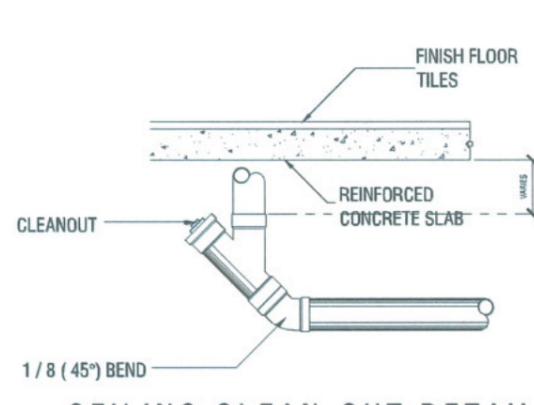
7. ALL PLUMBING WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE NATIONAL BUILDING CODE, REQUIREMENTS OF THE PLUMBING INSPECTION OFFICE AND PERTINENT PROVISION OF THE NATIONAL BUILDING CODE.

LEGENDS

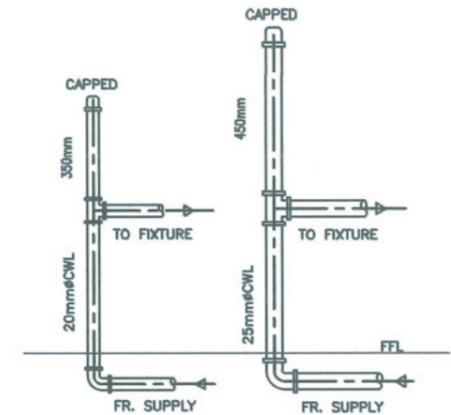
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|------|----------------------|-----|-----------------|--|----------------------------------|--|-----------------------|
| SP | SOIL PIPE | FD | FLOOR DRAIN | | 6" Ø PVC S1000 WASTE PIPES | | 75 MM Ø PPR PIPE PN20 |
| WP | WASTE PIPE | RD | ROOF DECK DRAIN | | 4" Ø PVC S1000 SOIL/WASTE PIPES | | 50 MM Ø PPR PIPE PN20 |
| VP | VENT PIPE | DS | DOWNSPOUT | | 3" Ø PVC S1000 WASTE PIPES | | 32 MM Ø PPR PIPE PN20 |
| SS | SOIL STACK | URI | URINAL | | 2" Ø PVC S1000 WASTE PIPES | | 20 MM Ø PPR PIPE PN20 |
| VS | VENT STACK | WC | WATER CLOSET | | 3" Ø PVC S1000 VENT PIPES | | |
| VTW | VENT THRU WALL | LAV | LAVATORY | | 2" Ø PVC S1000 VENT PIPES | | |
| VSTR | VENT STACK THRU ROOF | KS | KITCHEN SINK | | 6" Ø PVC S1000 STORM DRAIN PIPES | | |
| FCO | FLOOR CLEANOUT | F | FAUCET | | 4" Ø PVC S1000 STORM DRAIN PIPES | | |



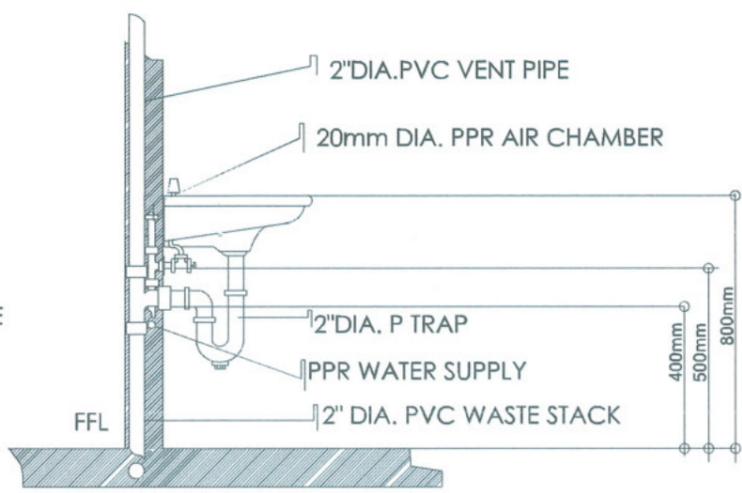
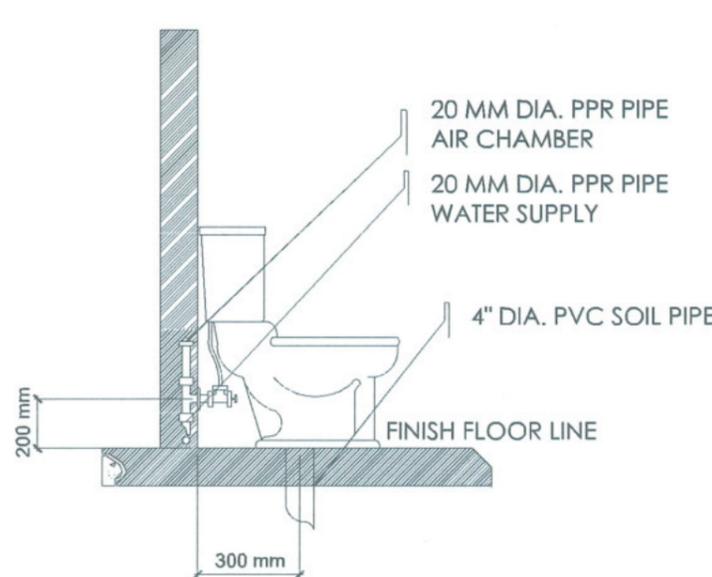
FLOOR CLEAN-OUT DETAIL
 NTS.



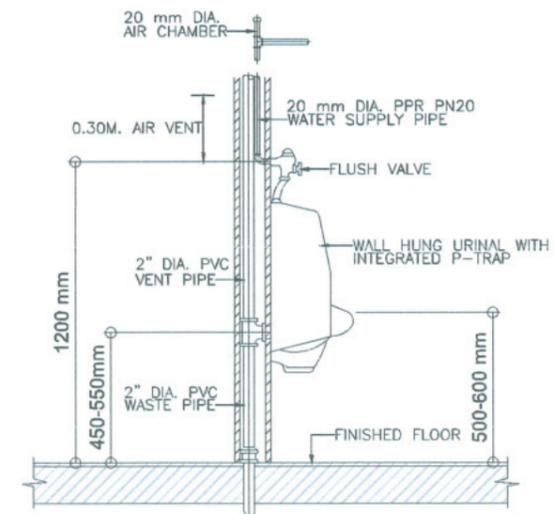
CEILING CLEAN-OUT DETAIL
 NTS.



TYPICAL AIR CHAMBER DETAIL
 NTS



TYPICAL PIPING DETAIL
 NTS.

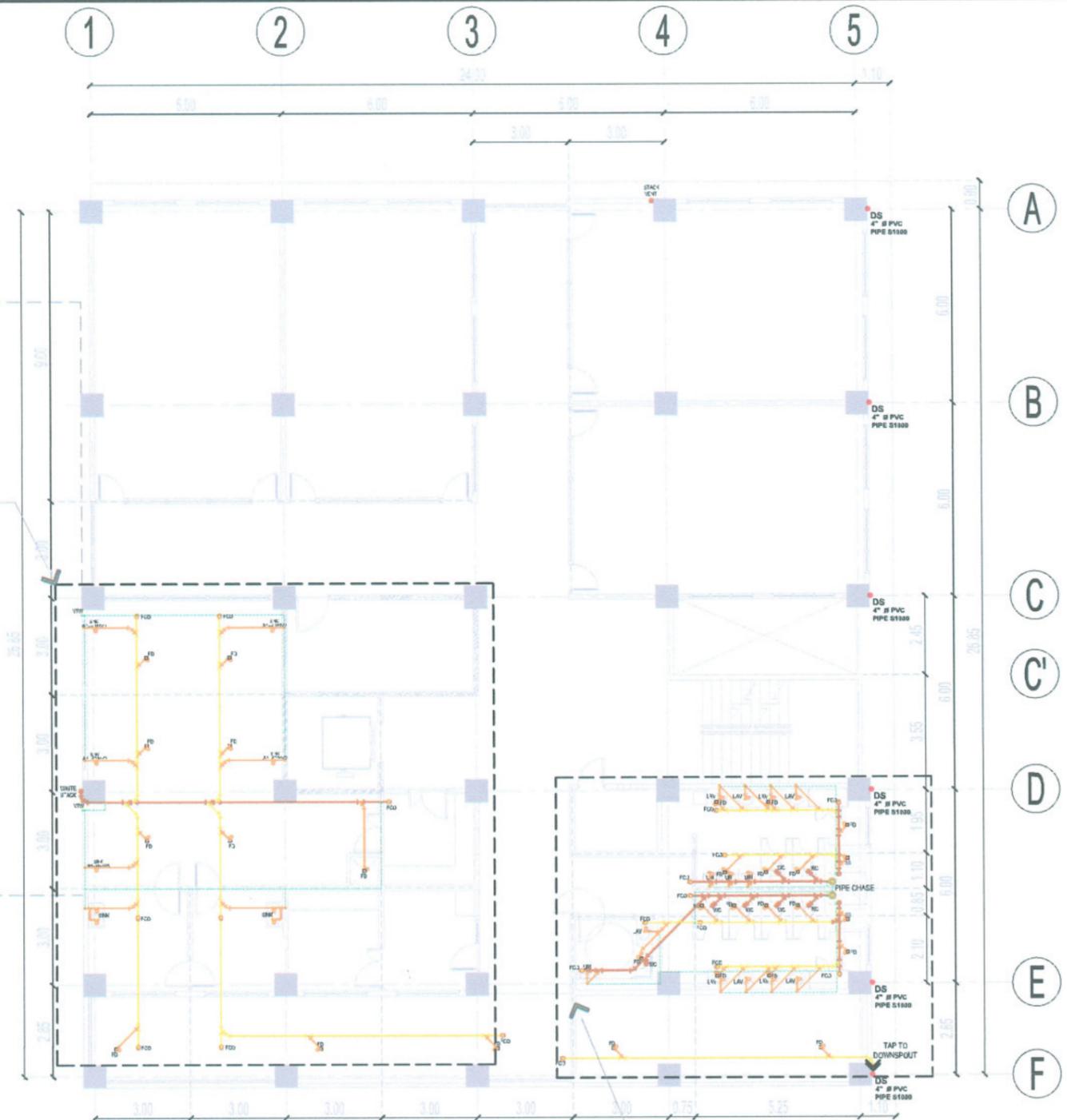


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| PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY | AR. ZEDRIC C. BANDO, RMP ARCHITECT/MASTER PLUMBER, OFDM-PDU | AR. CHERRY L. FABIANES HEAD, OFDM-PDU | AR. ARLEN M. GUIEB DIRECTOR, OFDM | DR. LEO P. PIAO DIRECTOR, CSET | ATTY. SHEROL C. BENITEZ VP FOR ADMINISTRATION | DR. ARNOLD E. VELASCO RESIDENT | DATE: 2025 | PAGE NO.: 74/99 |

| LEGEND | |
|--------|----------------------------------|
| | 6" Ø PVC S1000 WASTE PIPES |
| | 4" Ø PVC S1000 SOIL/WASTE PIPES |
| | 3" Ø PVC S1000 WASTE PIPES |
| | 2" Ø PVC S1000 WASTE PIPES |
| | 3" Ø PVC S1000 VENT PIPES |
| | 2" Ø PVC S1000 VENT PIPES |
| | 6" Ø PVC S1000 STORM DRAIN PIPES |
| | 4" Ø PVC S1000 STORM DRAIN PIPES |

SEE BLOW-UP PLAN (BLOW-UP "C")

FOR FUTURE EXPANSION OF
CENTER FOR SOLAR TECHNOLOGY
AND INNOVATION BUILDING



[SEE BLOW-UP PLAN (BLOW-UP "D")]

NOTE:

- WORK ONLY INCLUDES INSTALLATION OF **SANITARY, VENT, WATERLINE, AND STORM DRAIN** PIPING SYSTEM (INCLUDING SEPTIC TANKS AND OIL SEPARATOR TANK)
- FIXTURES, PUMPS, WATER TANKS AND MAIN WATER SUPPLY LINE **NOT** INCLUDED
- **PROPERLY COVER ALL STUB-OUTS** TO PREVENT CLOGGING, **ENSURING PIPE INTEGRITY** PRIOR TO THE NEXT PHASE OF THE PROJECT
- **CONDUCT LEAK AND FLOW TEST** BEFORE SEALING THE PIPES FOR FUTURE INSTALLATION

SECOND FLOOR SANITARY AND STORM DRAIN LAYOUT

SCALE 1:175MTS

| | | | | | | | | | | | | | | | | | | |
|---|-------------------|---|-------------------------------------|---|---------------|--|---------------|--------------------------------------|--------------------|-----------------------------------|------------------------|---|-----------|------------------------------------|-----------------|----------|------------|------|
| TARLAC STATE UNIVERSITY Facilities Development and Management Office Ramulo Boulevard, Tarlac City, Philippines 2300 | PROJECT TITLE: | CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: | AR. PAOLO A. DOCTOR, RMP REGISTERED MASTER PLUMBER, OFDM-PDU | CERTIFIED 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: | ATTY. GNEROLS C. BENITEZ VP FOR ADMINISTRATION | APPROVED: | DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: | AS SHOWN | SHEET NO.: | P-03 |
| | PROJECT LOCATION: | SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY | ARCHITECT/MASTER PLUMBER, OFDM-PDU: | AR. ZEDRIC C. GRANDO, RMP | DATE: | 2025 | PAGE NO.: | 76/99 | | | | | | | | | | |

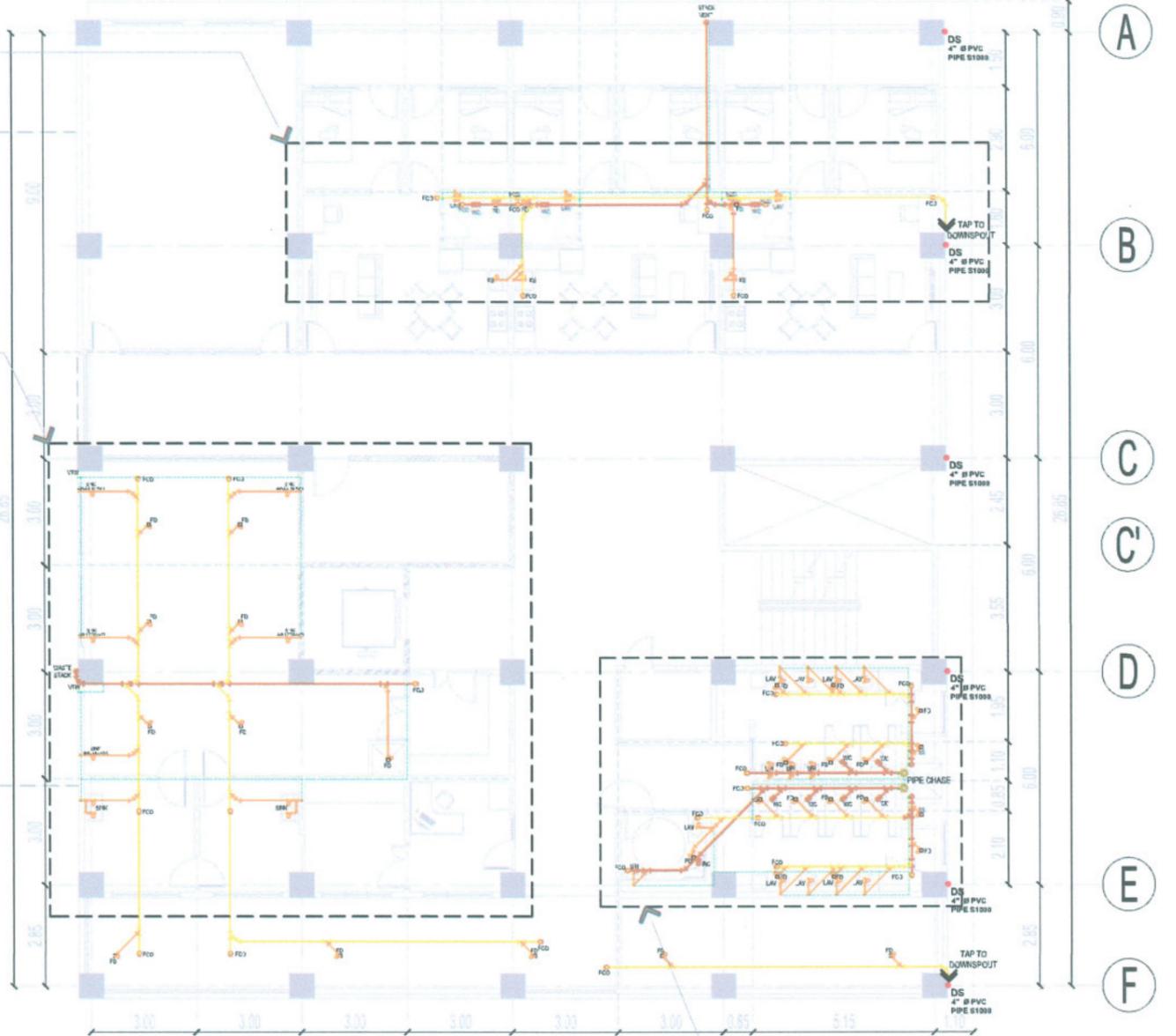
1 2 3 4 5

| LEGEND | |
|--------|----------------------------------|
| | 6" Ø PVC S1000 WASTE PIPES |
| | 4" Ø PVC S1000 SOIL/WASTE PIPES |
| | 3" Ø PVC S1000 WASTE PIPES |
| | 2" Ø PVC S1000 WASTE PIPES |
| | 3" Ø PVC S1000 VENT PIPES |
| | 2" Ø PVC S1000 VENT PIPES |
| | 6" Ø PVC S1000 STORM DRAIN PIPES |
| | 4" Ø PVC S1000 STORM DRAIN PIPES |

FOR FUTURE EXPANSION OF
CENTER FOR SOLAR TECHNOLOGY
AND INNOVATION BUILDING

SEE BLOW-UP PLAN (BLOW-UP "E")

SEE BLOW-UP PLAN (BLOW-UP "C")



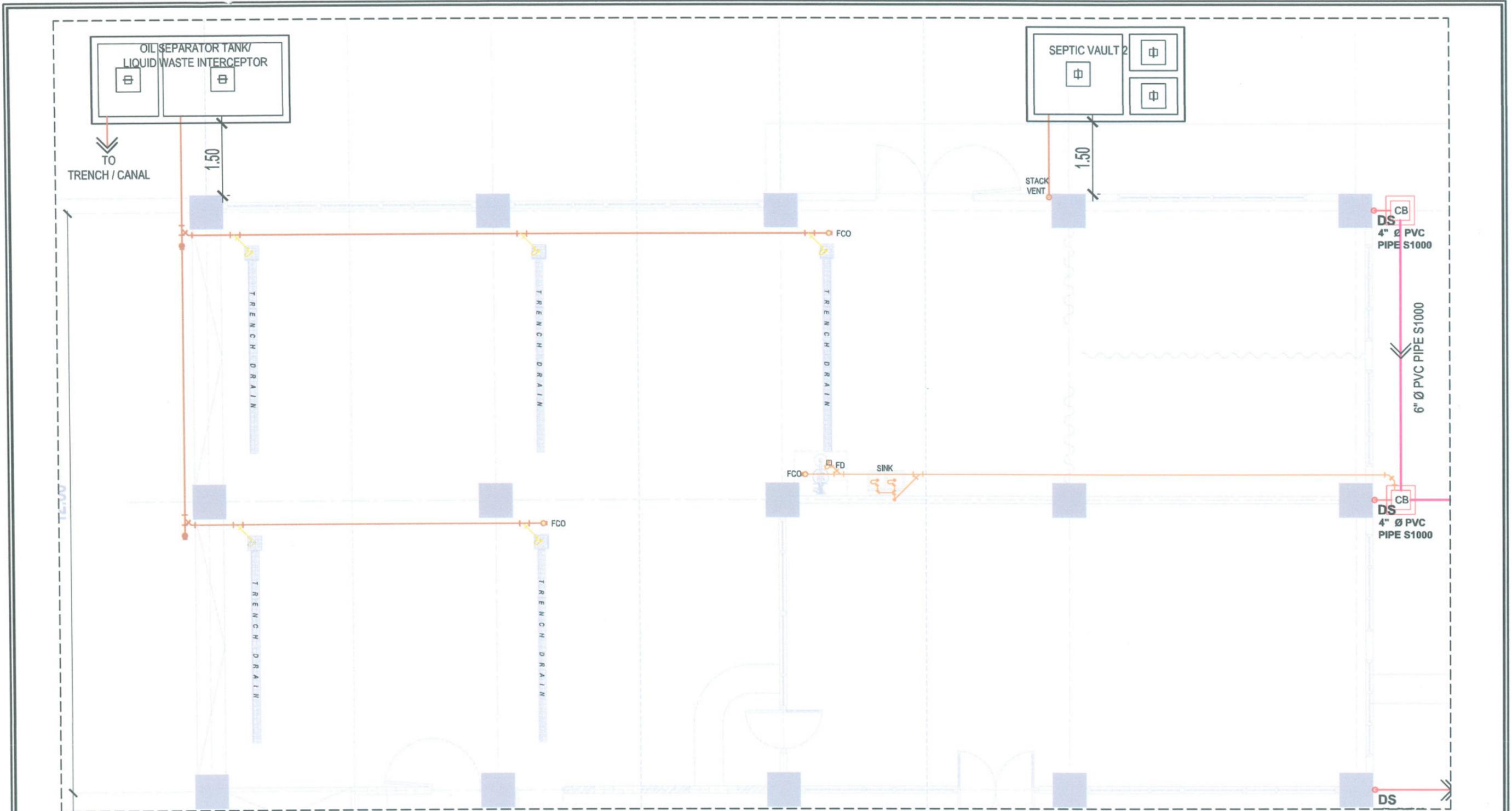
NOTE:

- WORK ONLY INCLUDES INSTALLATION OF **SANITARY, VENT, WATERLINE, AND STORM DRAIN** PIPING SYSTEM (INCLUDING SEPTIC TANKS AND OIL SEPARATOR TANK)
- FIXTURES, PUMPS, WATER TANKS AND MAIN WATER SUPPLY LINE NOT INCLUDED
- **PROPERLY COVER ALL STUB-OUTS** TO PREVENT CLOGGING, **ENSURING PIPE INTEGRITY** PRIOR TO THE NEXT PHASE OF THE PROJECT
- CONDUCT LEAK AND FLOW TEST BEFORE SEALING THE PIPES FOR FUTURE INSTALLATION

THIRD FLOOR
SANITARY AND STORM DRAIN LAYOUT

SCALE 1:175MTS

| | | | | | | | | | |
|--|---|--|---|---|---|---|---|-----------------------------|-------------------|
| <p>TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300</p> | PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: AR. PAUL A. ODEGOR, RMP CHIEF ESTIMATOR, OFDM-PDU | CERTIFIED 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: ATTY. SHERGIL C. BENITEZ VP FOR ADMINISTRATION | APPROVED: DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: AS SHOWN | SHEET NO: P-04 |
| | PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY | AR. ZEDRIC C. GANDO, RMP ARCHITECT/MASTER PLUMBER, OFDM-PDU | | | | | | | DATE: 2025 |



| LEGEND | |
|--------|----------------------------------|
| | 6" Ø PVC S1000 WASTE PIPES |
| | 4" Ø PVC S1000 SOIL/WASTE PIPES |
| | 3" Ø PVC S1000 WASTE PIPES |
| | 2" Ø PVC S1000 WASTE PIPES |
| | 3" Ø PVC S1000 VENT PIPES |
| | 2" Ø PVC S1000 VENT PIPES |
| | 6" Ø PVC S1000 STORM DRAIN PIPES |
| | 4" Ø PVC S1000 STORM DRAIN PIPES |

NOTE:

- WORK ONLY INCLUDES INSTALLATION OF **SANITARY, VENT, WATERLINE, AND STORM DRAIN PIPING SYSTEM** (INCLUDING SEPTIC TANKS AND OIL SEPARATOR TANK)
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- **CONDUCT LEAK AND FLOW TEST BEFORE SEALING THE PIPES FOR FUTURE INSTALLATION**

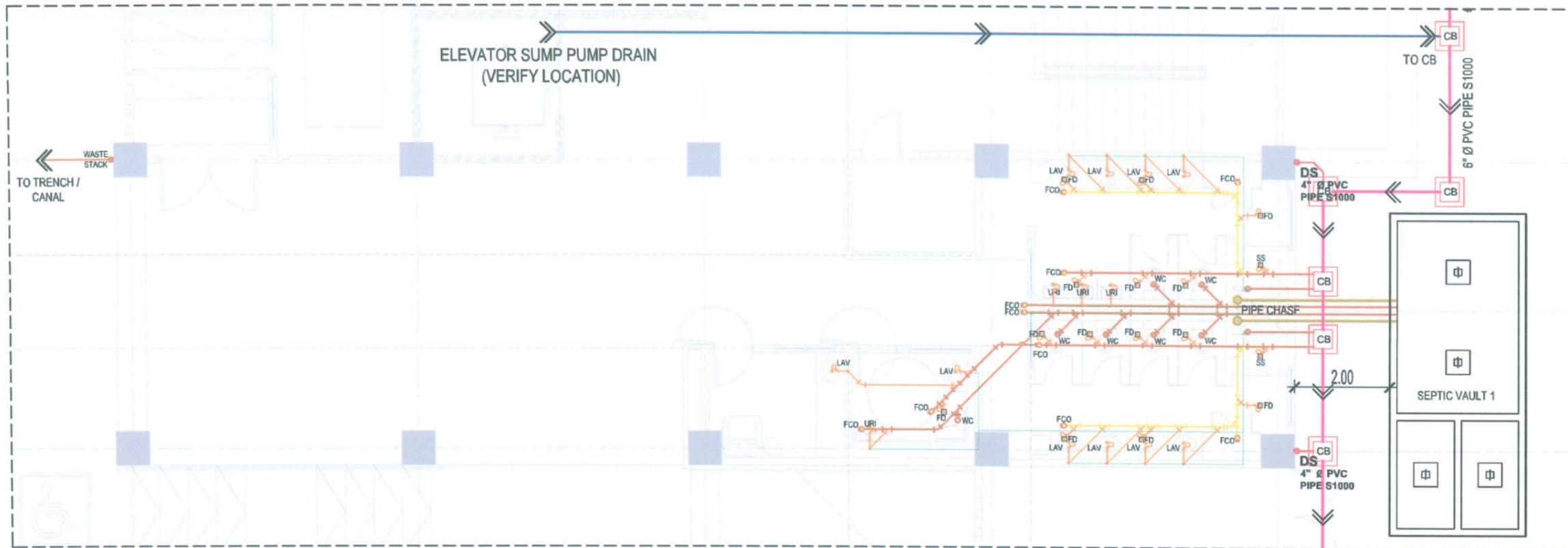
**GROUND FLOOR (BLOW-UP "A")
SANITARY LAYOUT**

SCALE 1:80MTS



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 I) | PREPARED BY: AR. PAULINA D. DUCTOS, RMP ARCHITECT/MASTER PLUMBER, OFDM-PDU | CERTIFIED BY: | CERTIFIED BY: | REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET | RECOMMENDING APPROVAL: | APPROVED: | SHEET CONTENTS: AS SHOWN | SHEET NO.: P-06 |
| PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY | AR. ZEDRIC C. GANDO, RMP ARCHITECT/MASTER PLUMBER, OFDM-PDU | AR. CHERRY L. FABIANES HEAD, OFDM-PDU | AR. ARLEN M. GUIEB DIRECTOR, OFDM | ATTY. SHEROLD C. BENITEZ VP FOR ADMINISTRATION | DR. ARNOLD E. VELASCO PRESIDENT | DATE: 2025 | PAGE NO.: 79/99 | |



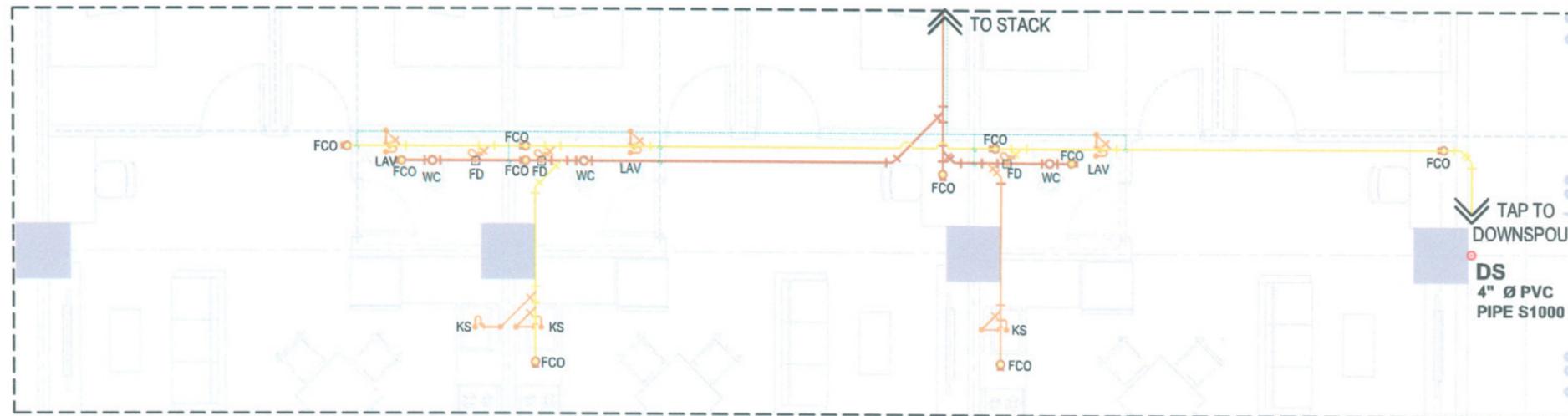
**GROUND FLOOR (BLOW-UP "B")
SANITARY LAYOUT ROUGHING-IN**

SCALE 1:100MTS

| LEGEND | |
|--------|----------------------------------|
| | 6" Ø PVC S1000 WASTE PIPES |
| | 4" Ø PVC S1000 SOIL/WASTE PIPES |
| | 3" Ø PVC S1000 WASTE PIPES |
| | 2" Ø PVC S1000 WASTE PIPES |
| | 3" Ø PVC S1000 VENT PIPES |
| | 2" Ø PVC S1000 VENT PIPES |
| | 6" Ø PVC S1000 STORM DRAIN PIPES |
| | 4" Ø PVC S1000 STORM DRAIN PIPES |

NOTE:

- WORK ONLY INCLUDES INSTALLATION OF **SANITARY, VENT, WATERLINE, AND STORM DRAIN** PIPING SYSTEM (INCLUDING SEPTIC TANKS AND OIL SEPARATOR TANK)
- FIXTURES, PUMPS, WATER TANKS AND MAIN WATER SUPPLY LINE **NOT** INCLUDED
- **PROPERLY COVER ALL STUB-OUTS** TO PREVENT CLOGGING, **ENSURING PIPE INTEGRITY** PRIOR TO THE NEXT PHASE OF THE PROJECT
- CONDUCT LEAK AND FLOW TEST BEFORE SEALING THE PIPES FOR FUTURE INSTALLATION



**THIRD FLOOR (BLOW-UP "E")
SANITARY LAYOUT**

SCALE 1:75MTS



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 I)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
[Signature]
AR. PAOLO J. DE GUZMAN, RMP
ARCHITECT/MASTER PLANNER, OFDM-PDU
AR. ZEDRIC C. GANDOT, RMP
ARCHITECT/MASTER PLANNER, OFDM-PDU

CERTIFIED BY:
[Signature]
AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:
[Signature]
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

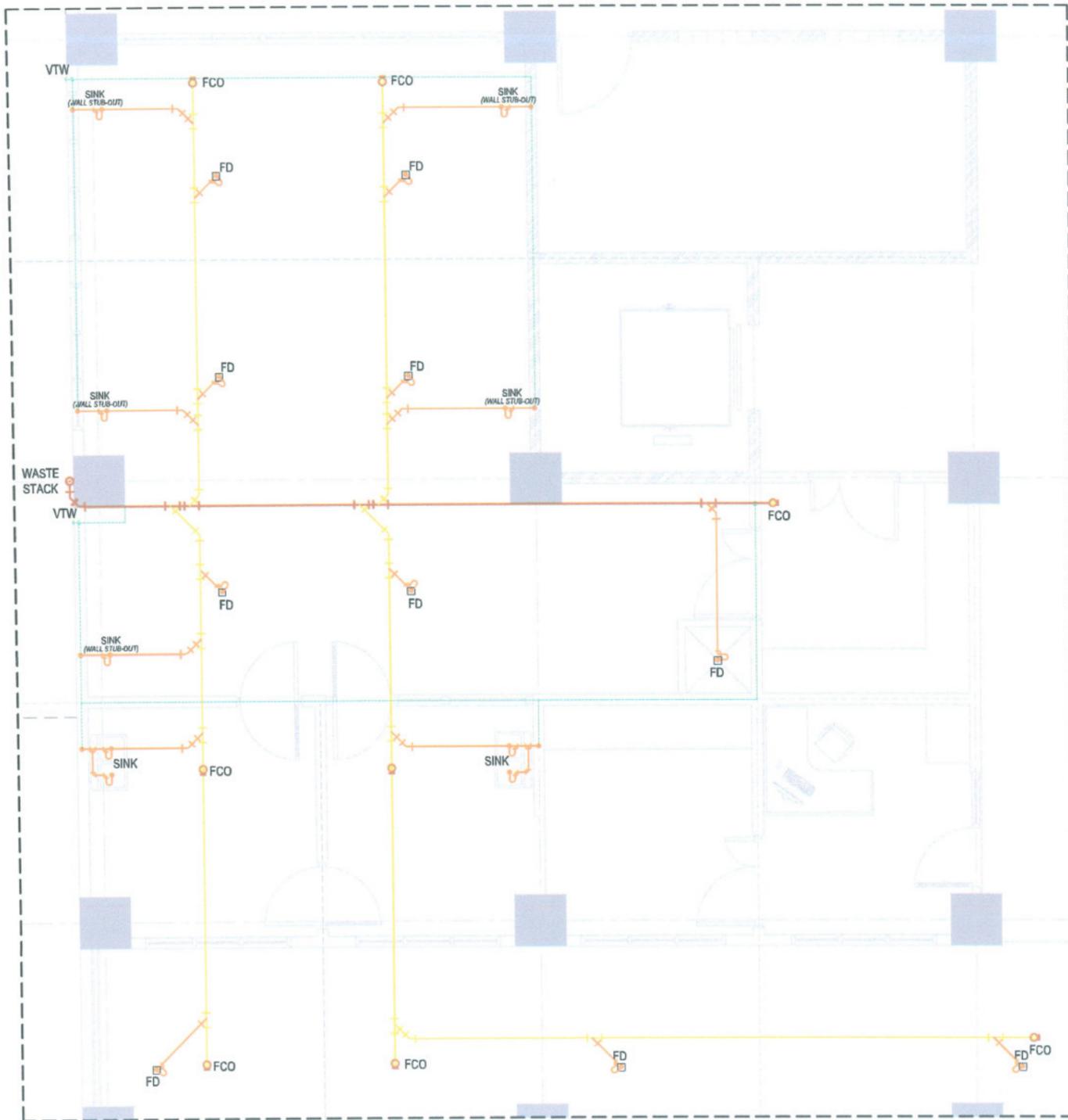
REQUESTING OFFICE:
[Signature]
DR. LEO P. PIAO
DIRECTOR, CSET

RECOMMENDING APPROVAL:
[Signature]
ATTY. GHERO C. BENITEZ
VP FOR ADMINISTRATION

APPROVED:
[Signature]
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

SHEET NO:
P-07
PAGE NO:
80/99



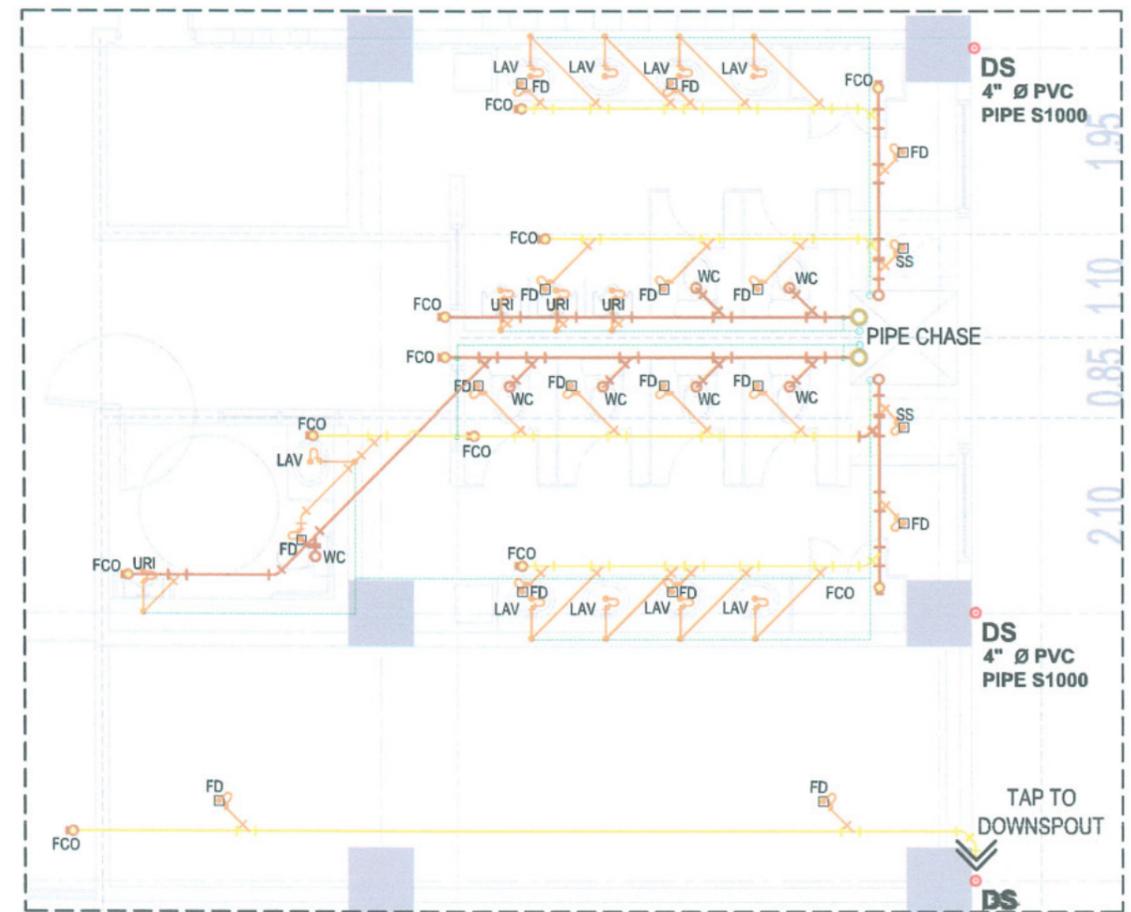
TYPICAL SECOND-THIRD FLOOR (BLOW-UP "C")
SANITARY LAYOUT

SCALE 1:75MTS

| LEGEND | |
|--------|----------------------------------|
| | 6" Ø PVC S1000 WASTE PIPES |
| | 4" Ø PVC S1000 SOIL/WASTE PIPES |
| | 3" Ø PVC S1000 WASTE PIPES |
| | 2" Ø PVC S1000 WASTE PIPES |
| | 3" Ø PVC S1000 VENT PIPES |
| | 2" Ø PVC S1000 VENT PIPES |
| | 6" Ø PVC S1000 STORM DRAIN PIPES |
| | 4" Ø PVC S1000 STORM DRAIN PIPES |

NOTE:

- WORK ONLY INCLUDES INSTALLATION OF **SANITARY, VENT, WATERLINE, AND STORM DRAIN PIPING SYSTEM** (INCLUDING SEPTIC TANKS AND OIL SEPARATOR TANK)
- FIXTURES, PUMPS, WATER TANKS AND MAIN WATER SUPPLY LINE **NOT** INCLUDED
- **PROPERLY COVER ALL STUB-OUTS TO PREVENT CLOGGING, ENSURING PIPE INTEGRITY PRIOR TO THE NEXT PHASE OF THE PROJECT**
- **CONDUCT LEAK AND FLOW TEST BEFORE SEALING THE PIPES FOR FUTURE INSTALLATION**



TYPICAL SECOND-THIRD FLOOR (BLOW-UP "D")
SANITARY LAYOUT

SCALE 1:75MTS



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 I)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
[Signature]
AR. PAUL A. WOODRUM, RMP
REGISTERED MASTER PLUMBER, OFDM-PDU
AR. ZEDRIC C. GRANDU, RMP
ARCHITECT/MASTER PLUMBER, OFDM-PDU

CERTIFIED BY:
[Signature]
AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:
[Signature]
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:
[Signature]
DR. LEO P. PIAO
DIRECTOR, CSET

RECOMMENDING APPROVAL:
[Signature]
ATTY. GHEROLD S. BENITEZ
VP FOR ADMINISTRATION

APPROVED:
[Signature]
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

SHEET NO:
P-08
PAGE NO:
81/99

LEGEND

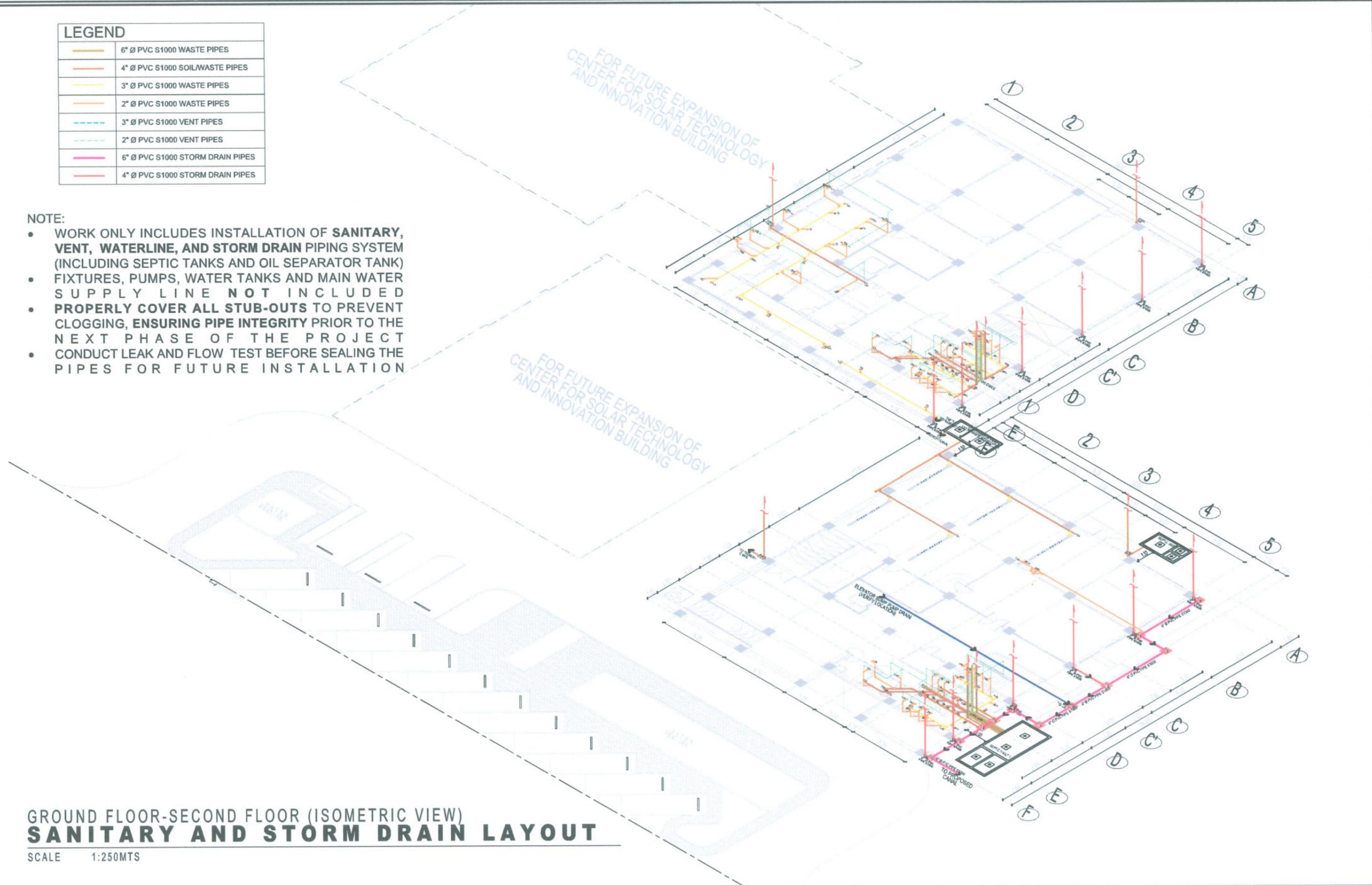
| | |
|---|----------------------------------|
|  | 6" Ø PVC S1000 WASTE PIPES |
|  | 4" Ø PVC S1000 SOIL/WASTE PIPES |
|  | 3" Ø PVC S1000 WASTE PIPES |
|  | 2" Ø PVC S1000 WASTE PIPES |
|  | 3" Ø PVC S1000 VENT PIPES |
|  | 2" Ø PVC S1000 VENT PIPES |
|  | 6" Ø PVC S1000 STORM DRAIN PIPES |
|  | 4" Ø PVC S1000 STORM DRAIN PIPES |

NOTE:

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FOR FUTURE EXPANSION OF
CENTER FOR SOLAR TECHNOLOGY
AND INNOVATION BUILDING

FOR FUTURE EXPANSION OF
CENTER FOR SOLAR TECHNOLOGY
AND INNOVATION BUILDING

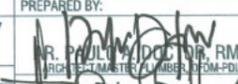


**GROUND FLOOR-SECOND FLOOR (ISOMETRIC VIEW)
SANITARY AND STORM DRAIN LAYOUT**

SCALE 1:250MTS

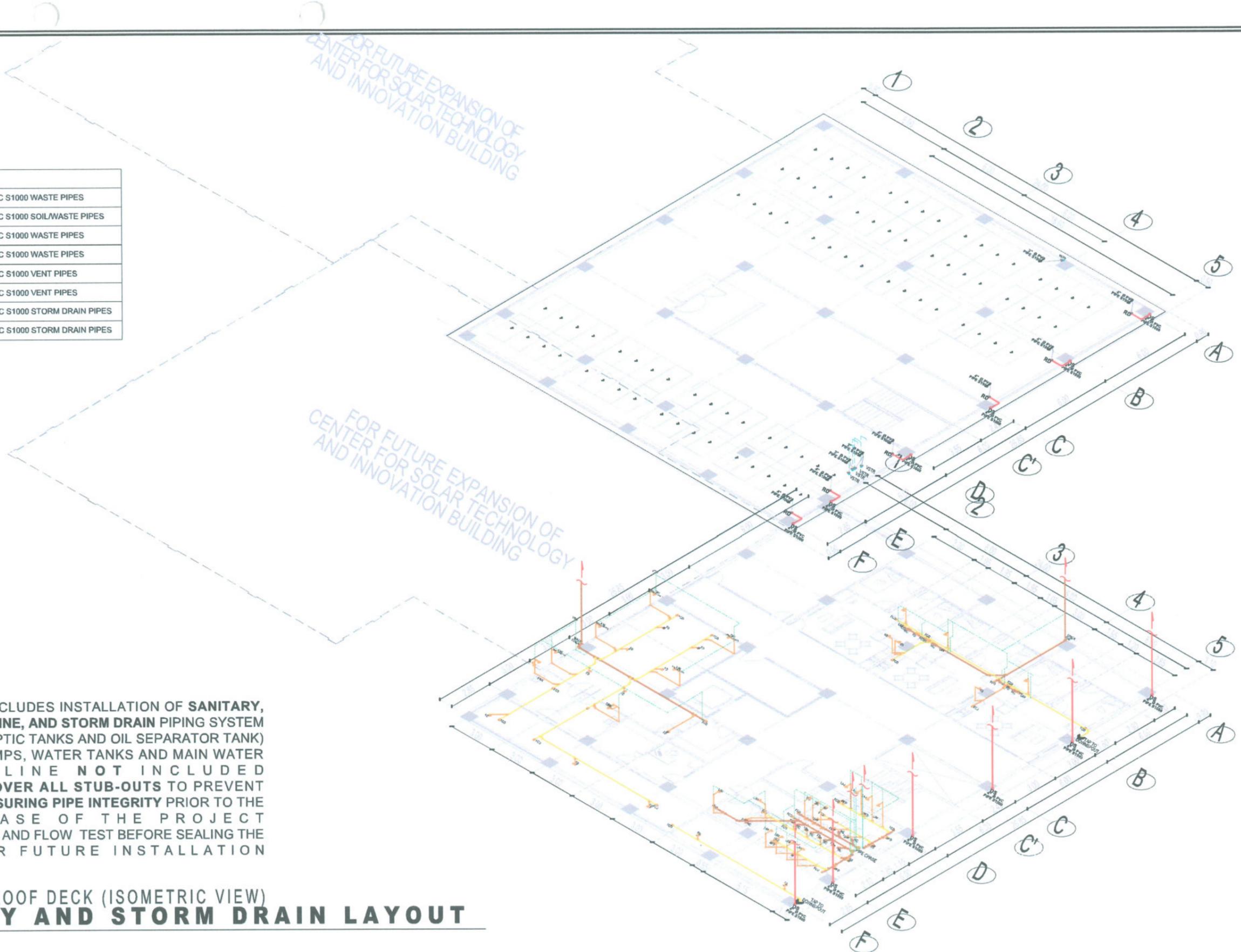


TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

| | | | | | | | | |
|--|---|--|--|--|---|--|-----------------------------|--|
| PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY:  AR. ZEDRIC C. GANDO, RMP ARCHITECT/MASTER PLUMBER, OFDM-PDU | CERTIFIED 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:  ATTY. CHEROL C. BENITEZ VP FOR ADMINISTRATION | APPROVED:  DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: AS SHOWN | SHEET NO: P-09 PAGE NO: 82/99 |
| PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY | | | | | | | DATE: 2025 | |

FOR FUTURE EXPANSION OF
CENTER FOR SOLAR TECHNOLOGY
AND INNOVATION BUILDING

| LEGEND | |
|--------|----------------------------------|
| | 6" Ø PVC S1000 WASTE PIPES |
| | 4" Ø PVC S1000 SOIL/WASTE PIPES |
| | 3" Ø PVC S1000 WASTE PIPES |
| | 2" Ø PVC S1000 WASTE PIPES |
| | 3" Ø PVC S1000 VENT PIPES |
| | 2" Ø PVC S1000 VENT PIPES |
| | 6" Ø PVC S1000 STORM DRAIN PIPES |
| | 4" Ø PVC S1000 STORM DRAIN PIPES |



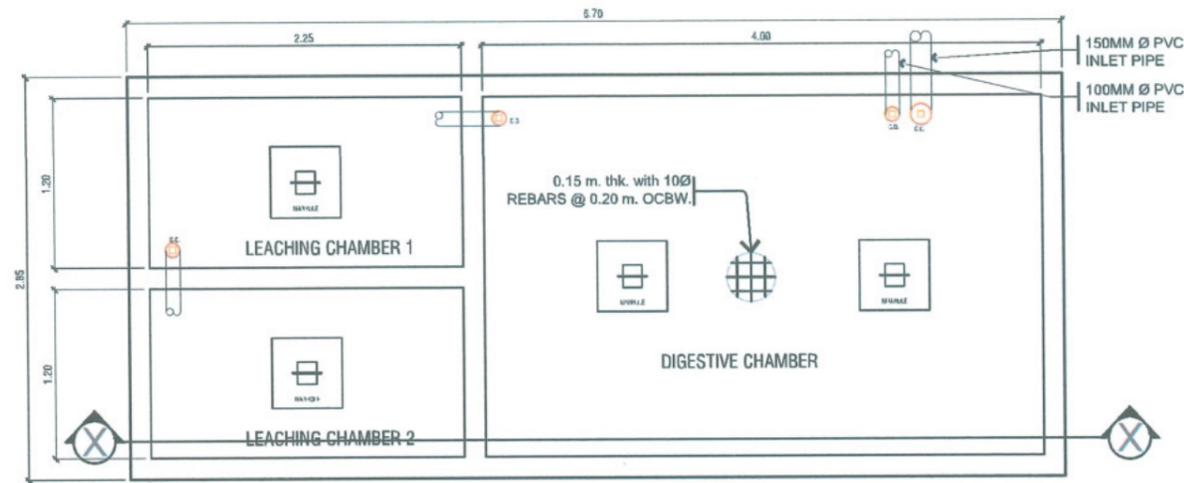
FOR FUTURE EXPANSION OF
CENTER FOR SOLAR TECHNOLOGY
AND INNOVATION BUILDING

- NOTE:
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 - CONDUCT LEAK AND FLOW TEST BEFORE SEALING THE PIPES FOR FUTURE INSTALLATION

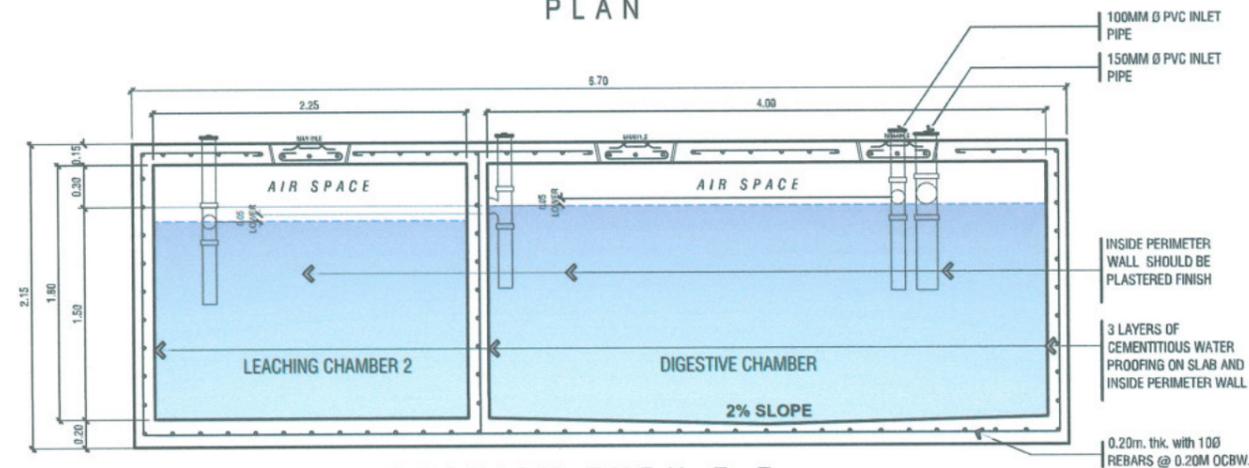
THIRD FLOOR-ROOF DECK (ISOMETRIC VIEW)
SANITARY AND STORM DRAIN LAYOUT

SCALE 1:200MTS

| | | | | | | | | | | |
|--|---|---|---------------|--|--------------------|-----------------------------------|-----------|--|------------|-------------------|
| <p>TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300</p> | PROJECT TITLE: | PREPARED BY: | CERTIFIED BY: | CERTIFIED BY: | REQUESTING OFFICE: | RECOMMENDING APPROVAL: | APPROVED: | SHEET CONTENTS: | SHEET NO.: | |
| | CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | AR. RAULYN DUCTOR, RMP ARCHITECT MASTER NUMBER, OFDM-FDU | | AR. CHERRY L. FABIANES HEAD, OFDM-FDU | | DR. LEO P. PIAO DIRECTOR, CSET | | ATTY. GHEROLYN C. BENITEZ VP FOR ADMINISTRATION | AS SHOWN | P-10 |
| | PROJECT LOCATION: | AR. ZEDRIC C. GANDO, RMP ARCHITECT MASTER NUMBER, OFDM-FDU | | | | | | DR. ARNOLD E. VELASCO PRESIDENT | DATE: 2025 | PAGE NO: 83/99 |



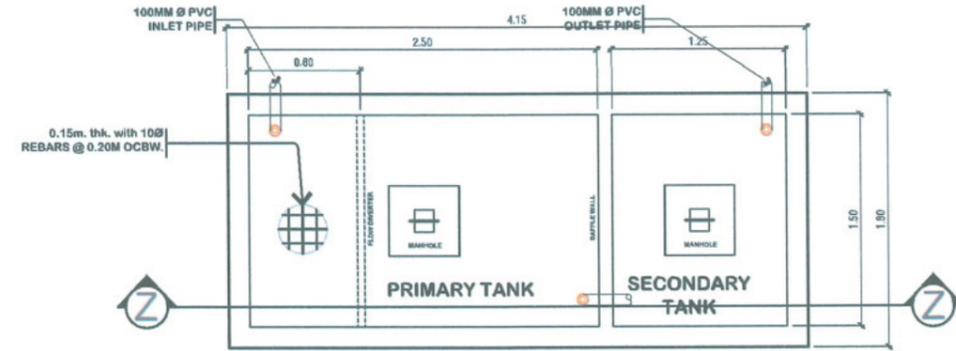
PLAN



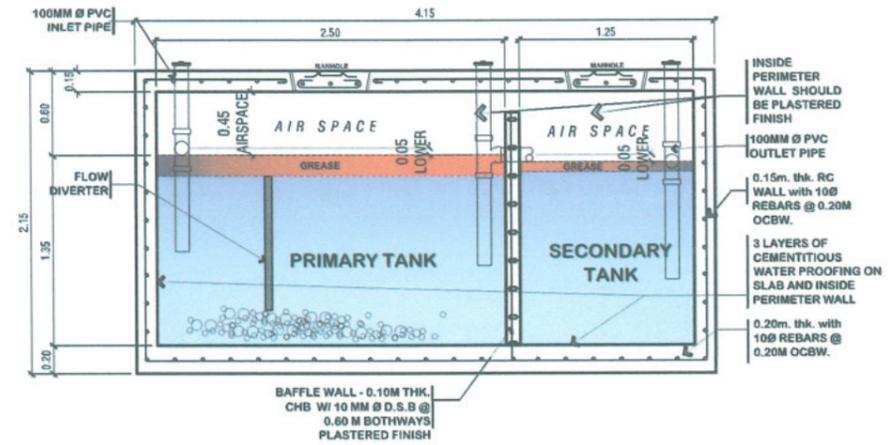
SECTION THRU Z-Z

SEPTIC VAULT 1 DETAILS

1:50 M



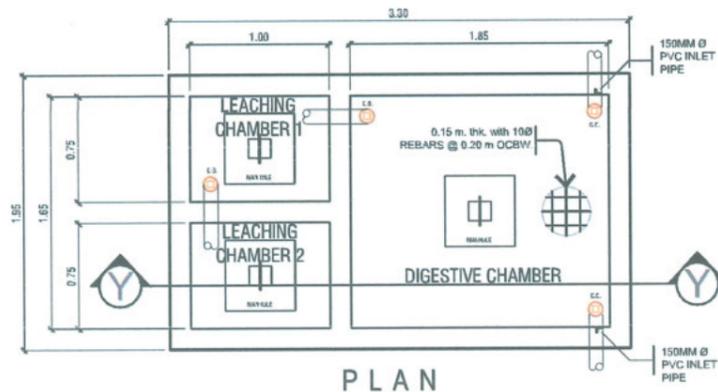
PLAN



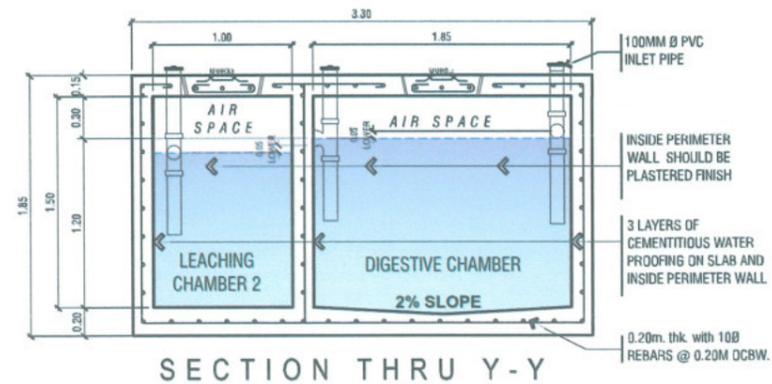
SECTION THRU Z-Z

OIL SEPARATOR TANK DETAILS

1:50 M



PLAN



SECTION THRU Y-Y

SEPTIC VAULT 2 DETAILS

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 I)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. PAULINA D. DICTOR, RMP
ARCHITECT/MASTER PLUMBER, OFDM-PDU
AR. ZEDRIC C. GANDO, RMP
ARCHITECT/MASTER PLUMBER, OFDM-PDU

CERTIFIED 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:
ATTY. GHEROLDO C. BENITEZ
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

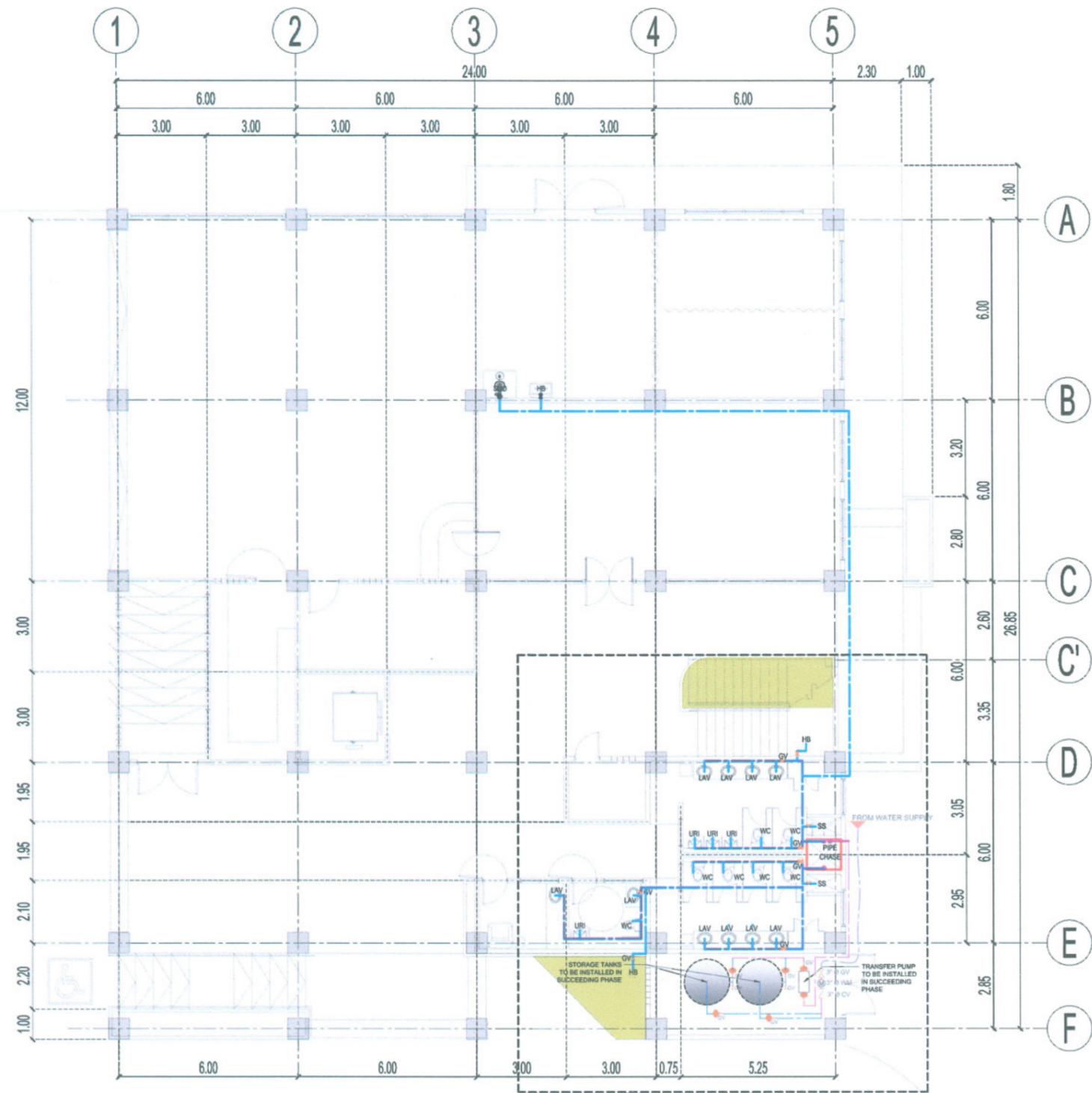
SHEET NO:
P-11
PAGE NO:
84/99

| LEGEND | |
|--------|-----------------------|
| | 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 ONLY INCLUDES INSTALLATION OF **SANITARY, VENT, WATERLINE, AND STORM DRAIN** PIPING SYSTEM (INCLUDING SEPTIC TANKS AND OIL SEPARATOR TANK)
- FIXTURES, PUMPS, WATER TANKS AND MAIN WATER SUPPLY LINE **NOT** INCLUDED
- **PROPERLY COVER ALL STUB-OUTS** TO PREVENT CLOGGING, **ENSURING PIPE INTEGRITY** PRIOR TO THE NEXT PHASE OF THE PROJECT
- CONDUCT LEAK AND FLOW TEST BEFORE SEALING THE PIPES FOR FUTURE INSTALLATION

FOR FUTURE EXPANSION OF
CENTER FOR SOLAR TECHNOLOGY
AND INNOVATION BUILDING



GROUND FLOOR
WATER SUPPLY DISTRIBUTION 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 I)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
[Signature]
AR. PAVILYN B. BOCOR, RMP
ARCHITECT/MASTER PLUMBER, OFDM-POU
AR. ZEDRIC C. GANDO, RMP
ARCHITECT/MASTER PLUMBER, OFDM-POU

CERTIFIED BY:
[Signature]
AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:
[Signature]
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

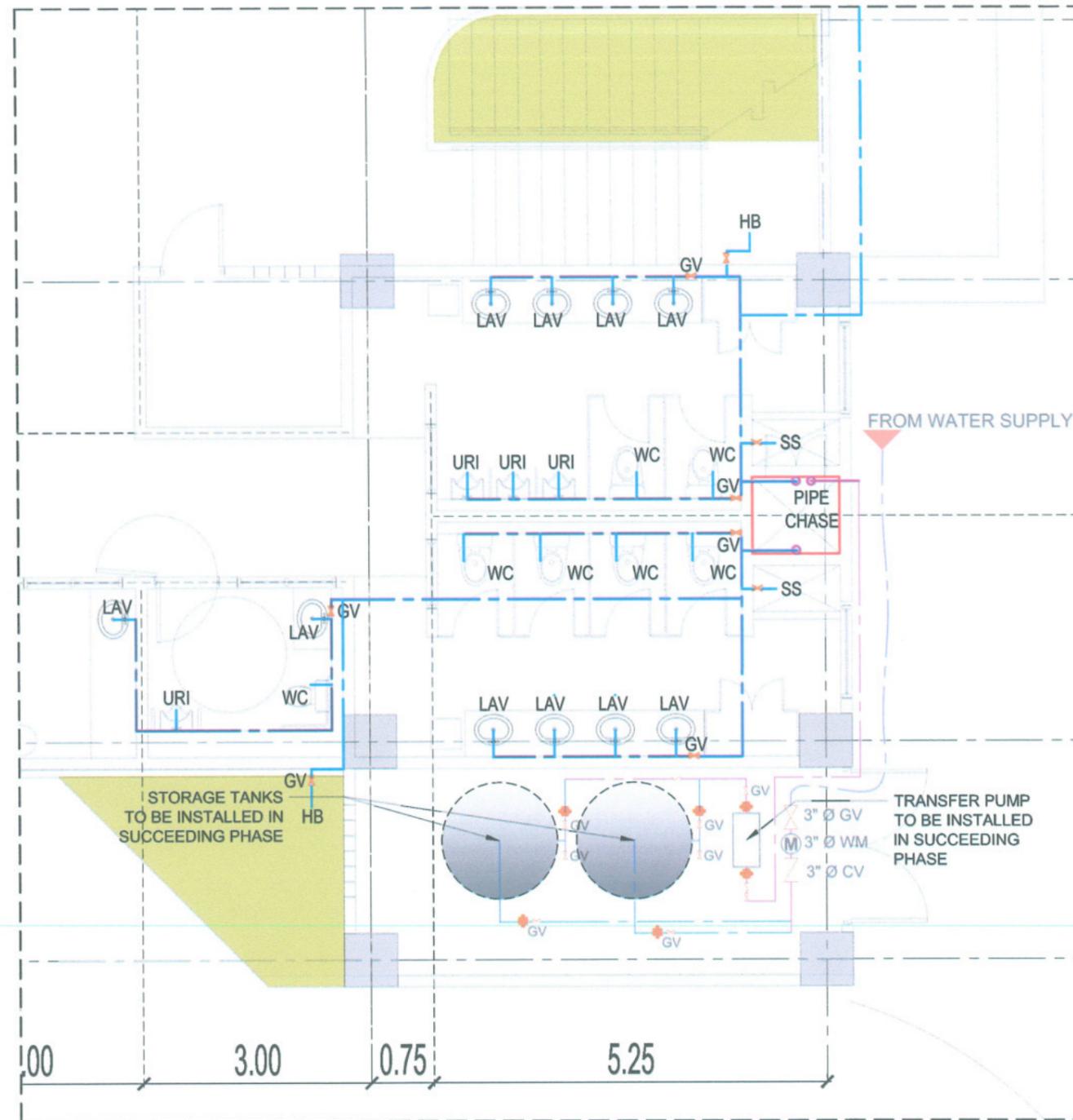
REQUESTING OFFICE:
[Signature]
DR. LEO P. PIAO
DIRECTOR, CSET

RECOMMENDING APPROVAL:
[Signature]
ATTY. GHEROLYN C. BENITEZ
VP FOR ADMINISTRATION

APPROVED:
[Signature]
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

SHEET NO:
P-12
PAGE NO:
85/99



GROUND FLOOR (BLOW-UP "A") WATER SUPPLY DISTRIBUTION LAYOUT

SCALE 1:75MTS



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

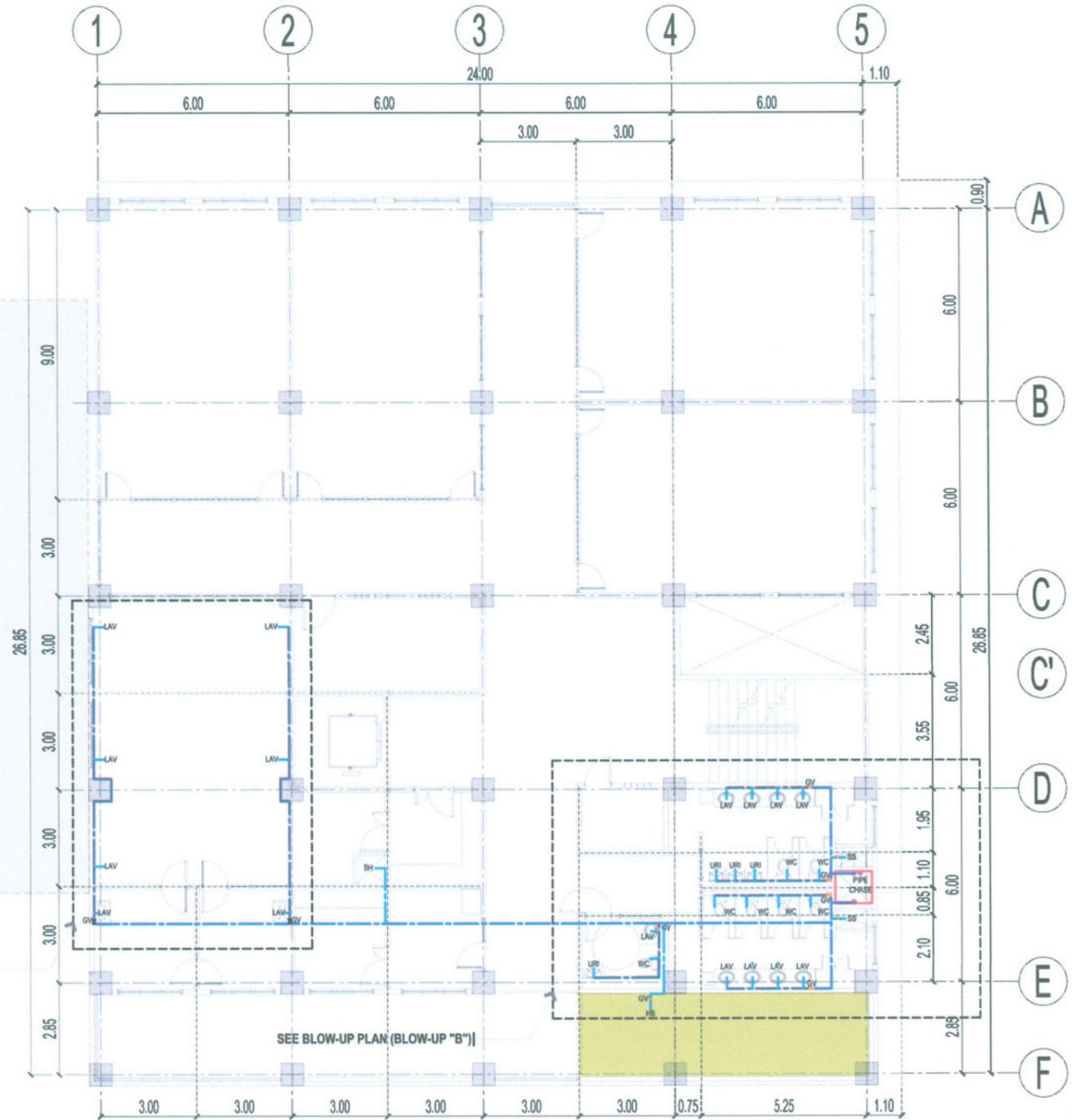
| | | | | | | | | |
|---|--|---|---|---|--|---|-----------------------------|--------------------|
| PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: AR. PAUL O. DEOSTOR, RMP ARCHITECT/MASTER PLUMBER, OFDM-PDU | CERTIFIED BY: <i>[Signature]</i> AR. CHERRY L. FABIANES HEAD, OFDM-PDU | CERTIFIED BY: <i>[Signature]</i> AR. ARLEN M. GUIEB DIRECTOR, OFDM | REQUESTING OFFICE: <i>[Signature]</i> DR. LEO P. PIAO DIRECTOR, CSET | RECOMMENDING APPROVAL: <i>[Signature]</i> ATTY. GEROLD C. BENITEZ VP FOR ADMINISTRATION | APPROVED: <i>[Signature]</i> DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: AS SHOWN | SHEET NO.: P-13 |
| PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY | AR. ZEDRIC C. GANDO, RMP ARCHITECT/MASTER PLUMBER, OFDM-PDU | | | | | | DATE: 2025 | PAGE NO.: 86/99 |

| LEGEND | |
|--------|-----------------------|
| | 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 ONLY INCLUDES INSTALLATION OF **SANITARY, VENT, WATERLINE, AND STORM DRAIN** PIPING SYSTEM (INCLUDING SEPTIC TANKS AND OIL SEPARATOR TANK)
- FIXTURES, PUMPS, WATER TANKS AND MAIN WATER SUPPLY LINE **NOT** INCLUDED
- **PROPERLY COVER ALL STUB-OUTS** TO PREVENT CLOGGING, **ENSURING PIPE INTEGRITY** PRIOR TO THE NEXT PHASE OF THE PROJECT
- CONDUCT LEAK AND FLOW TEST BEFORE SEALING THE PIPES FOR FUTURE INSTALLATION

FOR FUTURE EXPANSION OF
CENTER FOR SOLAR TECHNOLOGY
AND INNOVATION BUILDING



SECOND FLOOR
WATER SUPPLY DISTRIBUTION 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 I)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. PAUL A. DEOSTOR, RMP
ARCHITECT/MASTER PLUMBER, OFDM-PDU
AR. ZEDRIC C. SANDO, RMP
ARCHITECT/MASTER PLUMBER, OFDM-PDU

CERTIFIED 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:

ATTY. GHEROLD BENITEZ
VP FOR ADMINISTRATION

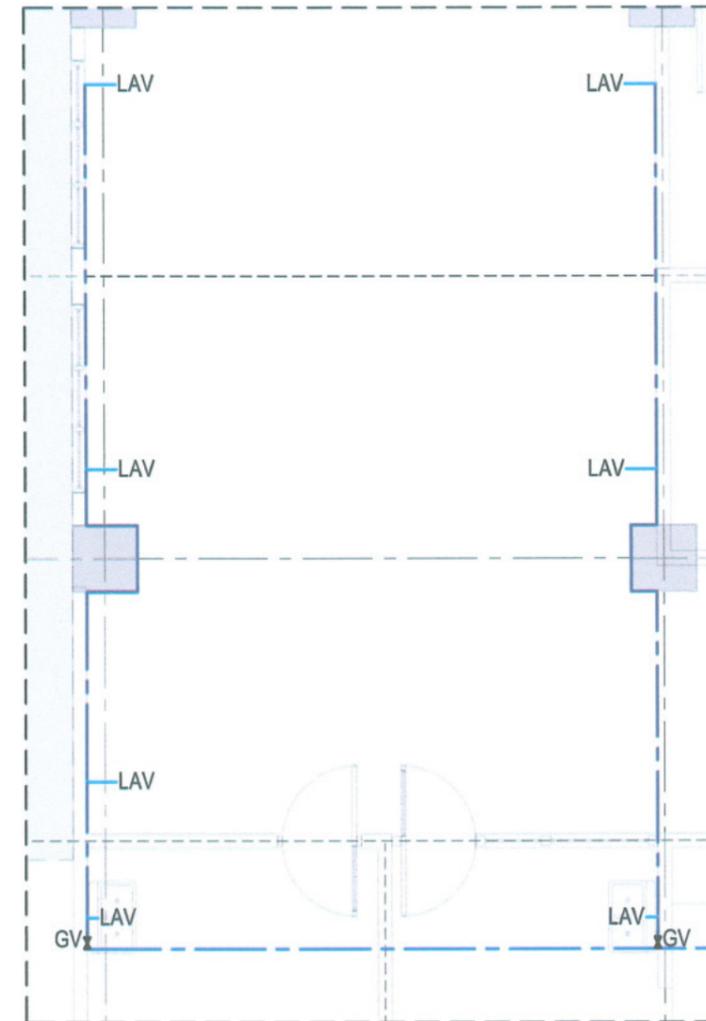
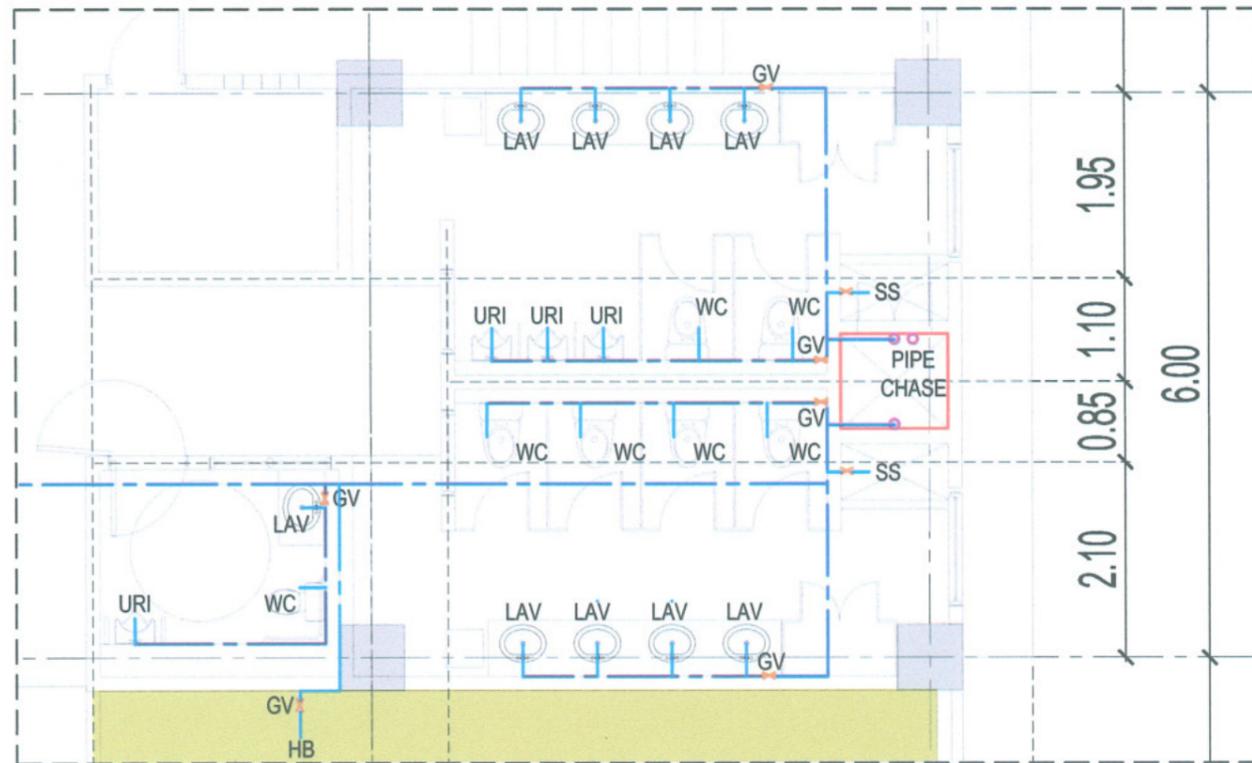
APPROVED:

DR. ARNOLD E. MELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

SHEET NO:
P-14
PAGE NO:
87/99

| LEGEND | |
|---|-----------------------|
|  | 75 MM Ø PPR PIPE PN20 |
|  | 50 MM Ø PPR PIPE PN20 |
|  | 32 MM Ø PPR PIPE PN20 |
|  | 20 MM Ø PPR PIPE PN20 |



SECOND FLOOR (BLOW-UP "B" & "C") WATER SUPPLY DISTRIBUTION LAYOUT

SCALE 1:75MTS

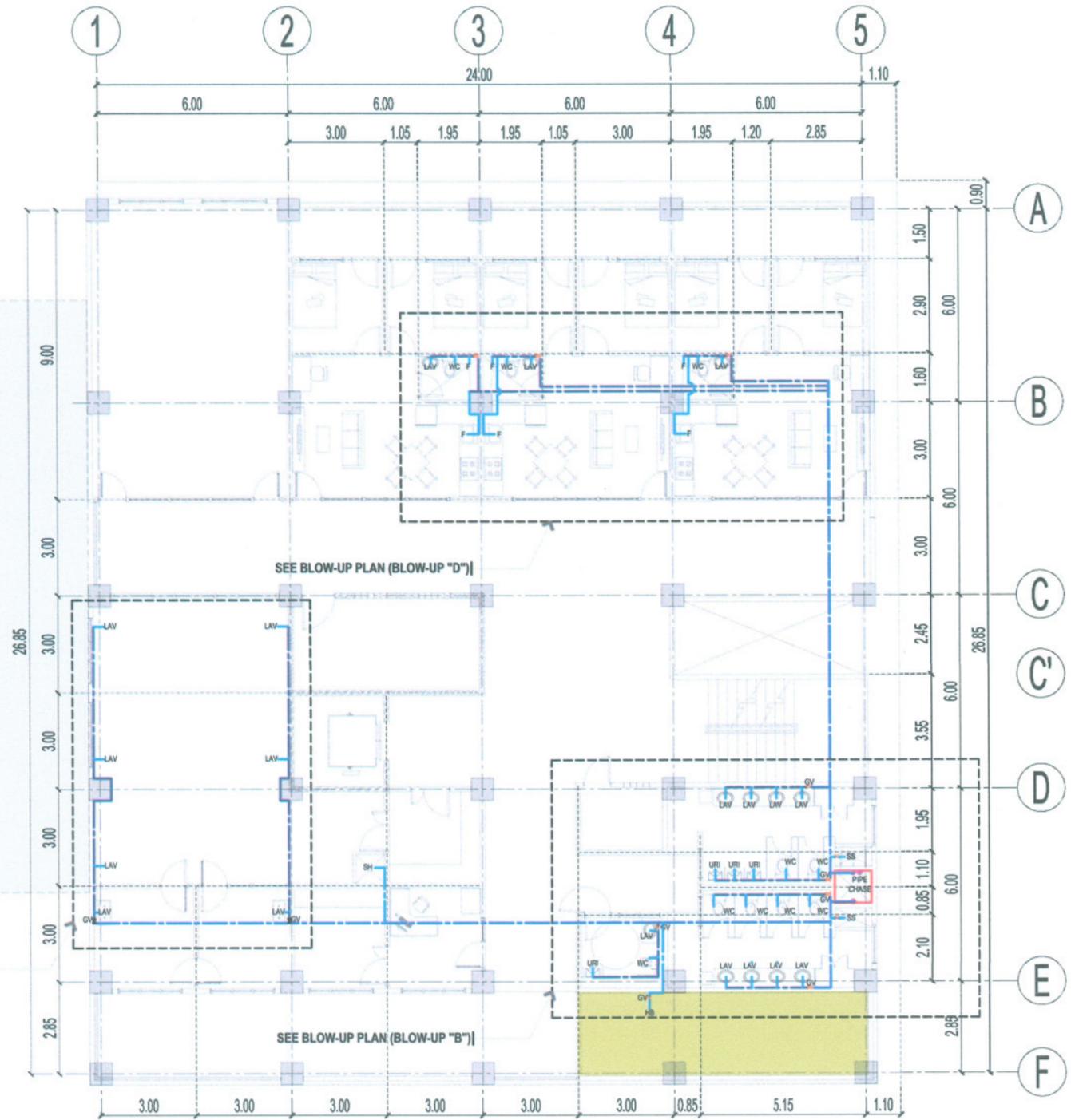
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|--|---|---|---|--|--|--|--|---|--|
|  <p>TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300</p> | PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY:  AR. PAUL A. DIZON, RMP ARCHITECT/MASTER PLANNER, OFDM-PDU | CERTIFIED BY:  AR. CHERRY FABIANES HEAD, OFDM-PDU | CERTIFIED BY:  AR. ARLEN M. GUIEB DIRECTOR, OFDM | REQUESTING OFFICE:  DR. LEO P. PIAO DIRECTOR, CSET | RECOMMENDING APPROVAL:  ATTY. GHEROLD C. BENITEZ VP FOR ADMINISTRATION | APPROVED:  DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: AS SHOWN DATE: 2025 | SHEET NO: P-15 PAGE NO: 88/99 |
| | PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY | |  AR. ZEDRIC C. GANDO, RMP ARCHITECT/MASTER PLANNER, OFDM-PDU | | | | | | |

| LEGEND | |
|--------|-----------------------|
| | 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 ONLY INCLUDES INSTALLATION OF **SANITARY, VENT, WATERLINE, AND STORM DRAIN** PIPING SYSTEM (INCLUDING SEPTIC TANKS AND OIL SEPARATOR TANK)
- FIXTURES, PUMPS, WATER TANKS AND MAIN WATER SUPPLY LINE **NOT** INCLUDED
- **PROPERLY COVER ALL STUB-OUTS** TO PREVENT CLOGGING, **ENSURING PIPE INTEGRITY** PRIOR TO THE NEXT PHASE OF THE PROJECT
- CONDUCT LEAK AND FLOW TEST BEFORE SEALING THE PIPES FOR FUTURE INSTALLATION

FOR FUTURE EXPANSION OF
CENTER FOR SOLAR TECHNOLOGY
AND INNOVATION BUILDING



THIRD FLOOR WATER SUPPLY DISTRIBUTION 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 I) |
| PROJECT LOCATION: | SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY |

PREPARED BY:
[Signature]
AR. PAULINA DOCTOR, RMP
ARCHITECT/MASTER PLANNER, OFDM-PDU

AR. ZEDRIC C. GANDO, RMP
ARCHITECT/MASTER PLANNER, OFDM-PDU

CERTIFIED BY:
[Signature]
AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:
[Signature]
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

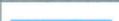
REQUESTING OFFICE:
[Signature]
DR. LEO P. PIAO
DIRECTOR, CSET

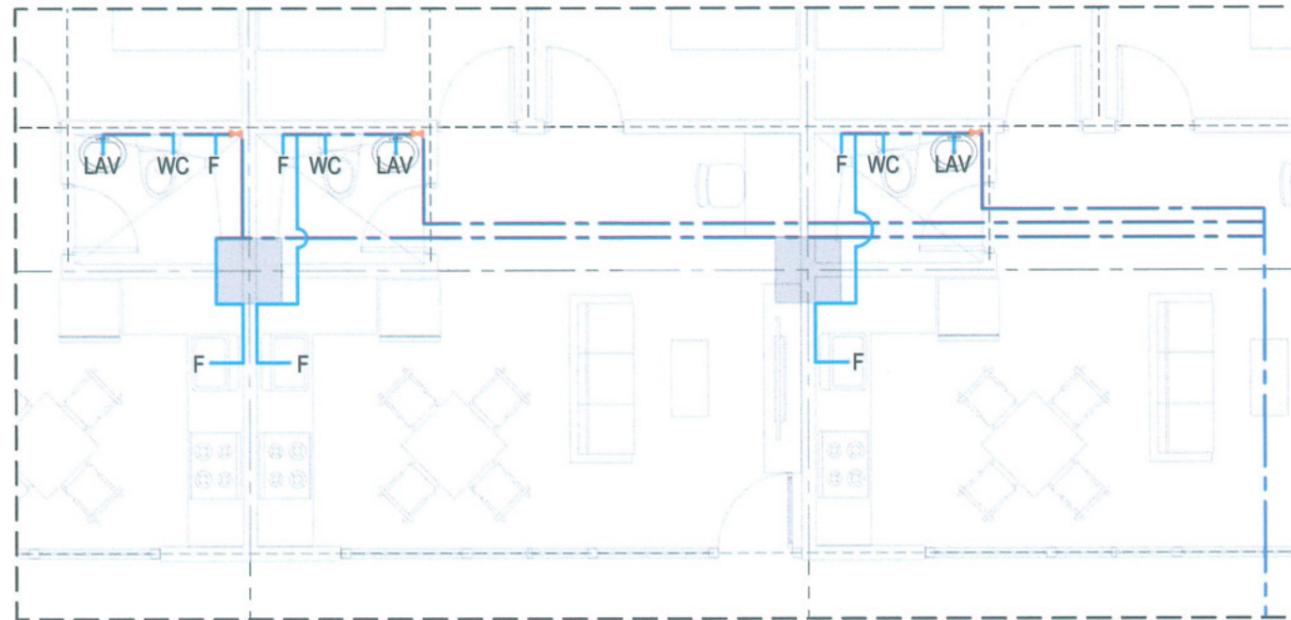
RECOMMENDING APPROVAL:
[Signature]
ATTY. CHERYL C. BENITEZ
VP FOR ADMINISTRATION

APPROVED:
[Signature]
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

SHEET NO:
P-16
PAGE NO:
89/99

| LEGEND | |
|---|-----------------------|
|  | 75 MM Ø PPR PIPE PN20 |
|  | 50 MM Ø PPR PIPE PN20 |
|  | 32 MM Ø PPR PIPE PN20 |
|  | 20 MM Ø PPR PIPE PN20 |



THIRD FLOOR (BLOW-UP "D") WATER SUPPLY DISTRIBUTION LAYOUT

SCALE 1:75MTS



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

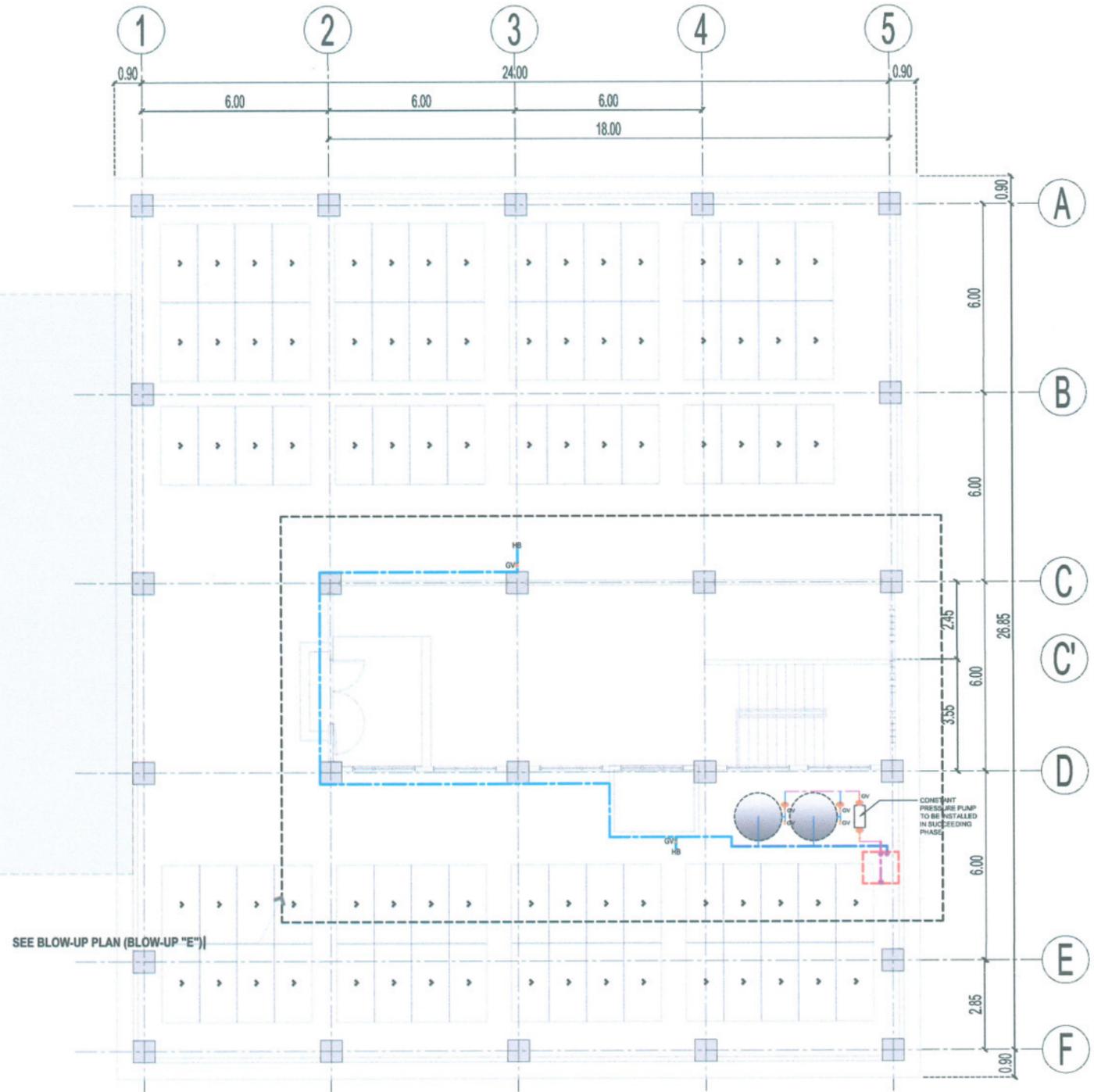
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|--|--|--|--|--|---|--|---|--|
| PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY:  AR. PHILIP A. DOSTOR, RMP ARCHITECT/MASTER PLUMBER, OFDM-PDU | CERTIFIED BY:  AR. CHERRY L. FABIANES HEAD, OFDM-PDU | CERTIFIED BY:  AR. ARLEN M. GUIEB DIRECTOR, OFDM | REQUESTING OFFICE:  DR. LEO P. PIAO DIRECTOR, CSET | RECOMMENDING APPROVAL:  ATTY. SHERON C. BENITEZ VP FOR ADMINISTRATION | APPROVED:  DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: AS SHOWN DATE: 2025 | SHEET NO: P-17 PAGE NO: 90/99 |
|--|--|--|--|--|---|--|---|--|

| LEGEND | |
|--------|-----------------------|
| | 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 ONLY INCLUDES INSTALLATION OF **SANITARY, VENT, WATERLINE, AND STORM DRAIN PIPING SYSTEM** (INCLUDING SEPTIC TANKS AND OIL SEPARATOR TANK)
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- CONDUCT LEAK AND FLOW TEST BEFORE SEALING THE PIPES FOR FUTURE INSTALLATION

FOR FUTURE EXPANSION OF
CENTER FOR SOLAR TECHNOLOGY
AND INNOVATION BUILDING



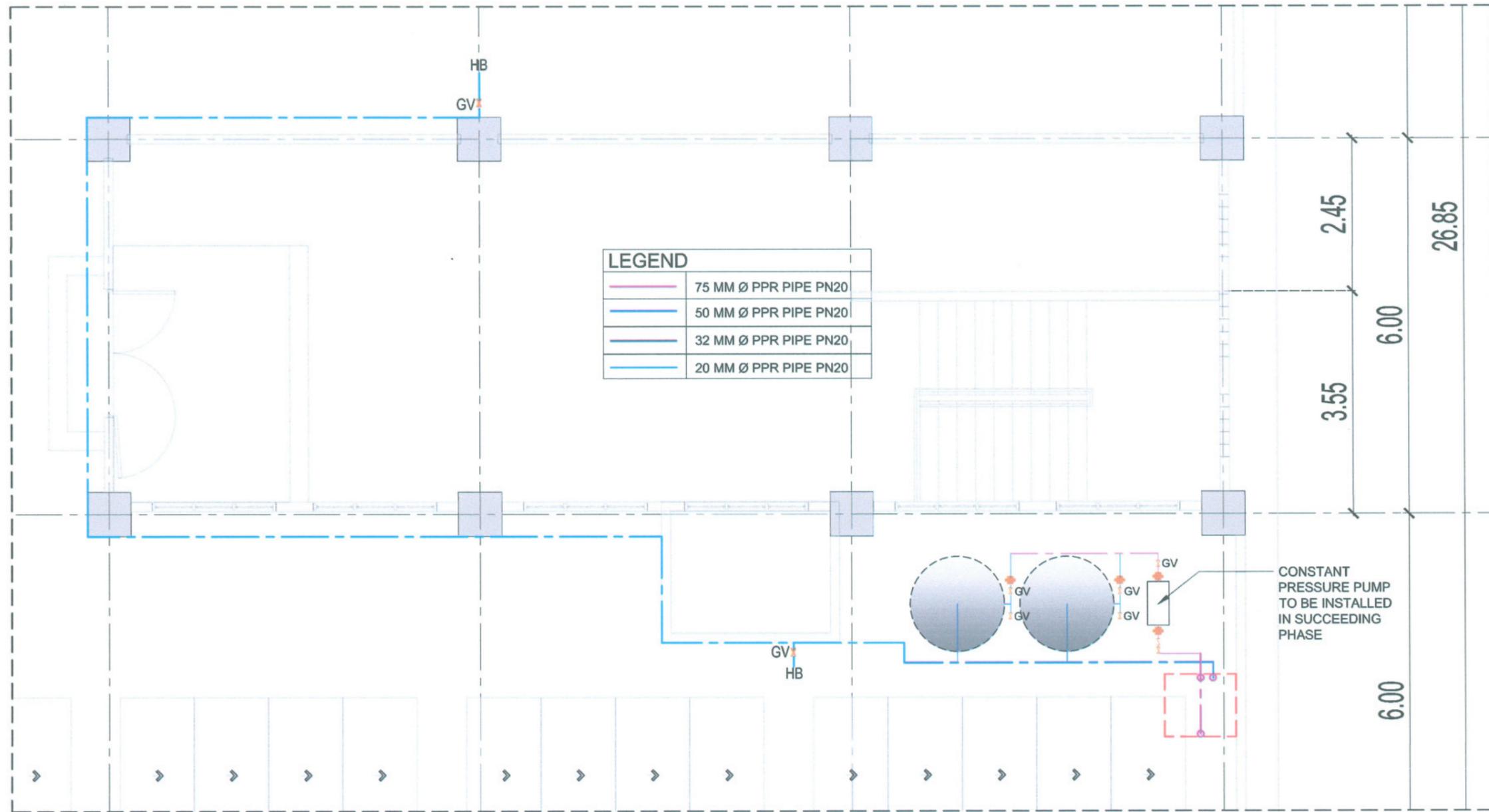
ROOF DECK WATER SUPPLY DISTRIBUTION LAYOUT

SCALE 1:175MTS



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

| | | | | | | | | |
|--|--|---|---|---|---|---|---|--|
| PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: AR. PAULO A. DOCTOR, RMP ARCHITECT/MASTER PLUMBER, OFDM-POU | CERTIFIED BY: AR. CHERRY L. FABIANES HEAD, OFDM-POU | CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM | REQUESTING OFFICE: DR. LEO P. PIAO DIRECTOR, CSET | RECOMMENDING APPROVAL: ATTY. GHEROLD V. BENITEZ VP FOR ADMINISTRATION | APPROVED: DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: AS SHOWN DATE: 2025 | SHEET NO: P-18 PAGE NO: 91/99 |
|--|--|---|---|---|---|---|---|--|



ROOF DECK (BLOW-UP "E") WATER SUPPLY DISTRIBUTION LAYOUT

SCALE 1:75MTS

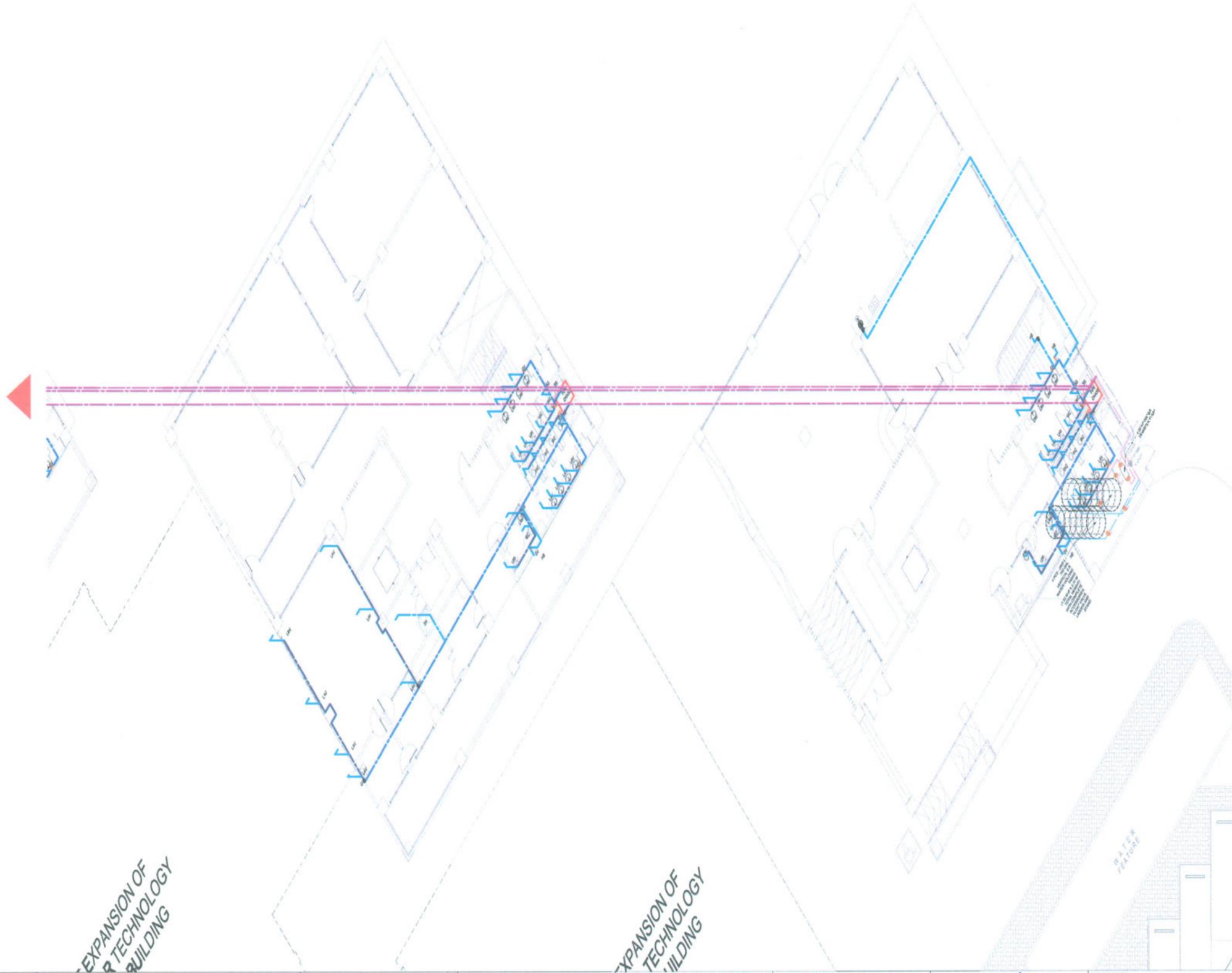


TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Remelo Boulevard, Tarlac City, Philippines 2300

| | | | | | | | | |
|--|---|---|---|---|--|---|---|--|
| PROJECT TITLE: CONSTRUCTION OF CENTER FOR SOLAR TECHNOLOGY AND INNOVATION BUILDING (PHASE I) | PREPARED BY: AR. PAUL A. DOCTOR, RMP ARCHITECT/MASTER PLUMBER, OFDM-PDU | CERTIFIED BY: <i>[Signature]</i> AR. CHERRY L. FABIANES HEAD, OFDM-PDU | CERTIFIED BY: <i>[Signature]</i> AR. ARLEN M. GUIEB DIRECTOR, OFDM | REQUESTING OFFICE: <i>[Signature]</i> DR. LEO P. PIAO DIRECTOR, CSET | RECOMMENDING APPROVAL: <i>[Signature]</i> ATTY. CHEROLYN C. BENITEZ VP FOR ADMINISTRATION | APPROVED: <i>[Signature]</i> DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: AS SHOWN DATE: 2025 | SHEET NO: P-19 PAGE NO: 92/99 |
|--|---|---|---|---|--|---|---|--|

| LEGEND | |
|--------|-----------------------|
| | 75 MM Ø PPR PIPE PN20 |
| | 50 MM Ø PPR PIPE PN20 |
| | 32 MM Ø PPR PIPE PN20 |
| | 20 MM Ø PPR PIPE PN20 |

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 - CONDUCT LEAK AND FLOW TEST BEFORE SEALING THE PIPES FOR FUTURE INSTALLATION



GROUND FLOOR TO SECOND FLOOR WATER SUPPLY DISTRIBUTION ISOMETRIC LAYOUT

SCALE 1:200MTS



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

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

PREPARED BY: 
AR. PAULO M. LOPEZ, RMP
ARCHITECT/MASTER PLUMBER, OFDM-PDU


AR. ZEDRIC C. GANDO, RMP
ARCHITECT/MASTER PLUMBER, OFDM-PDU

CERTIFIED 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: 
ATTY. GEROLD C. BENITEZ
VICE FOR ADMINISTRATION

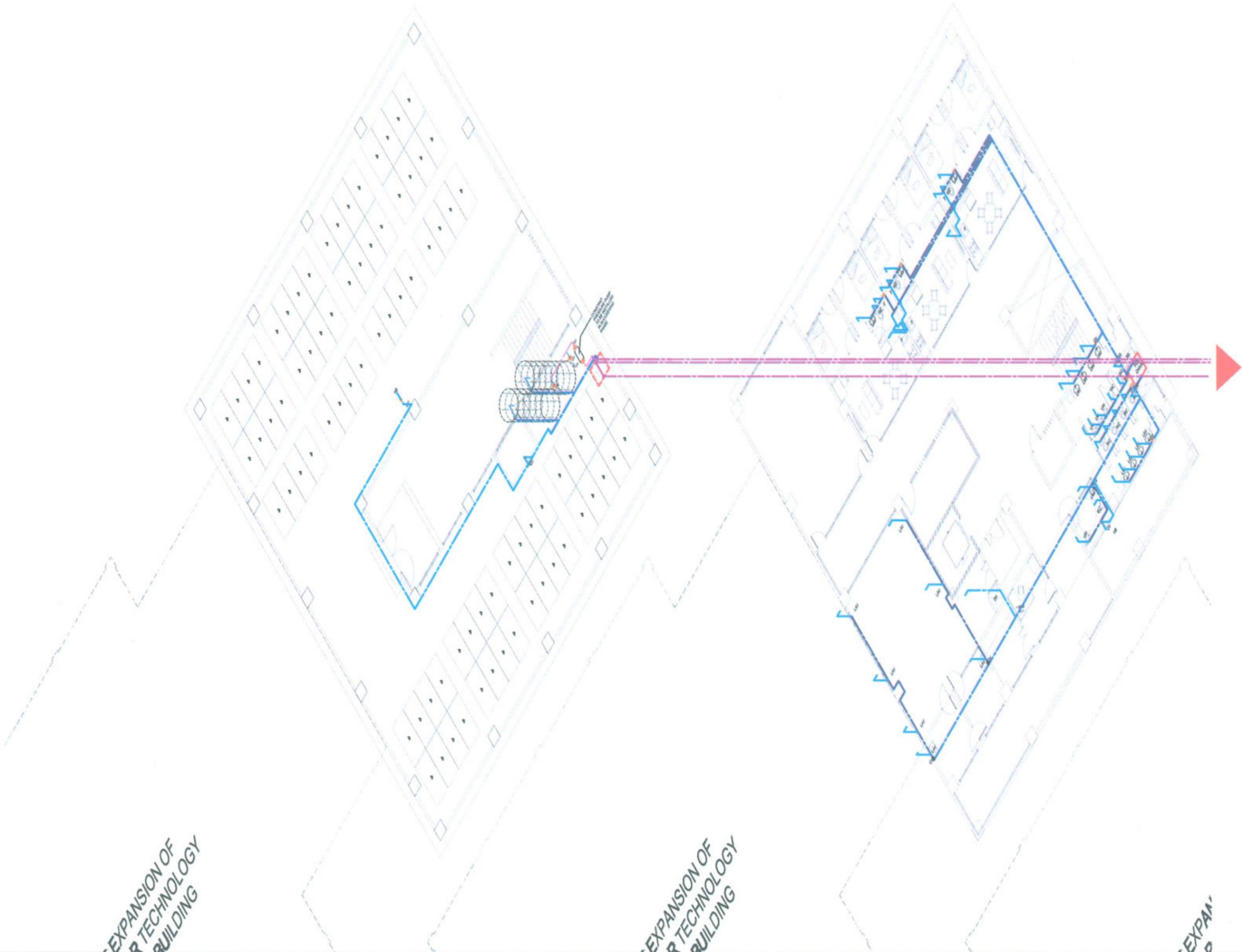
APPROVED: 
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS: AS SHOWN
DATE: 2025

SHEET NO: P-20
PAGE NO: 93/99

| LEGEND | |
|--------|-----------------------|
| | 75 MM Ø PPR PIPE PN20 |
| | 50 MM Ø PPR PIPE PN20 |
| | 32 MM Ø PPR PIPE PN20 |
| | 20 MM Ø PPR PIPE PN20 |

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THIRD FLOOR TO ROOF DECK
WATER SUPPLY DISTRIBUTION ISOMETRIC LAYOUT

SCALE 1:200MTS



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 I)

PROJECT LOCATION:
 SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

 AR. PAULO A. DOCTOR, RMP
 ARCHITECT/MASTER PLANNER, OFDM-PDU

AR. ZEDRIC C. GANDO, RMP
 ARCHITECT/MASTER PLANNER, OFDM-PDU

CERTIFIED 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:

 ATTY. GHEMOLD C. BENITEZ
 VP FOR ADMINISTRATION

APPROVED:

 DR. ARNOLD E. VELASCO
 PRESIDENT

SHEET CONTENTS:
 AS SHOWN

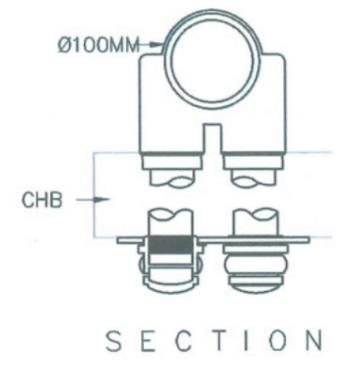
DATE: 2025

SHEET NO:
P-21

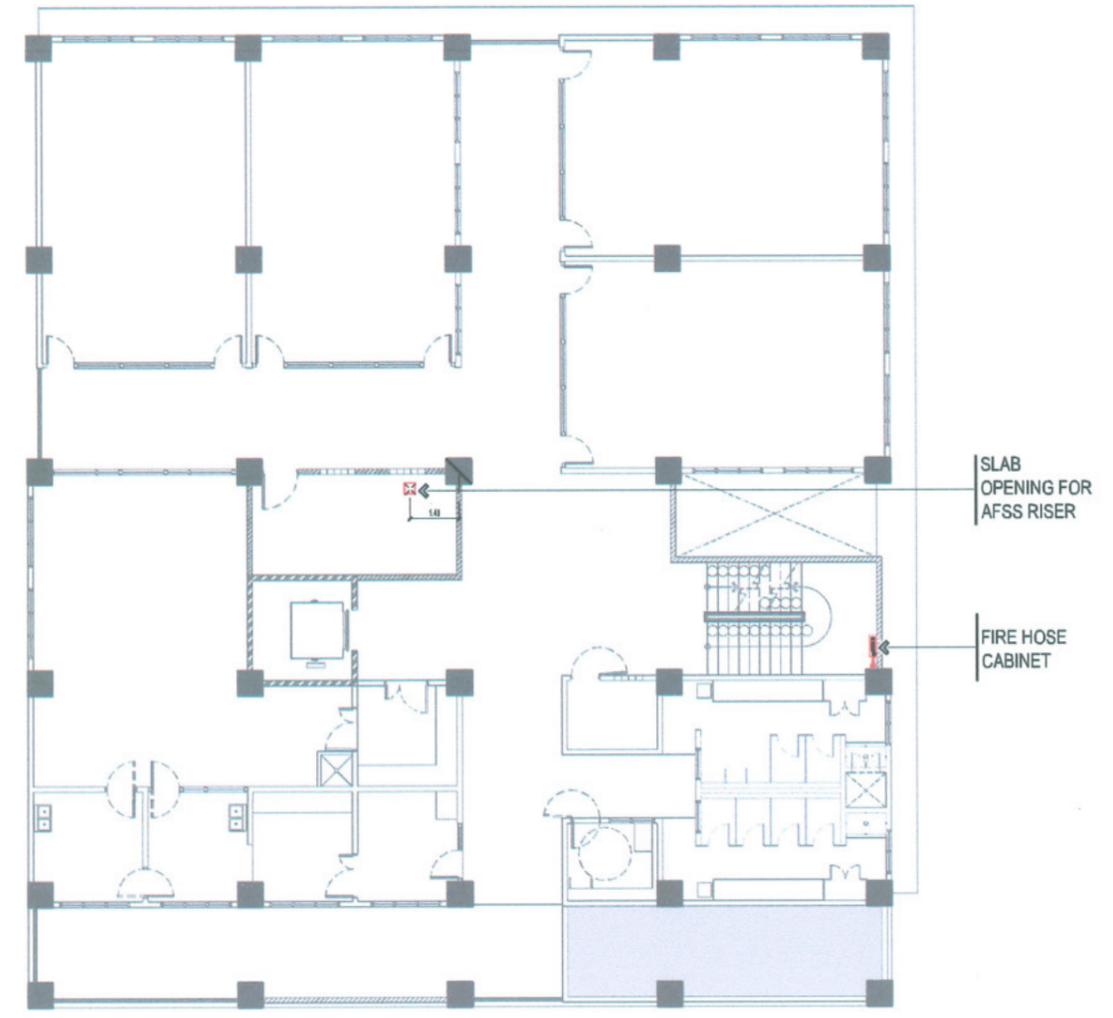
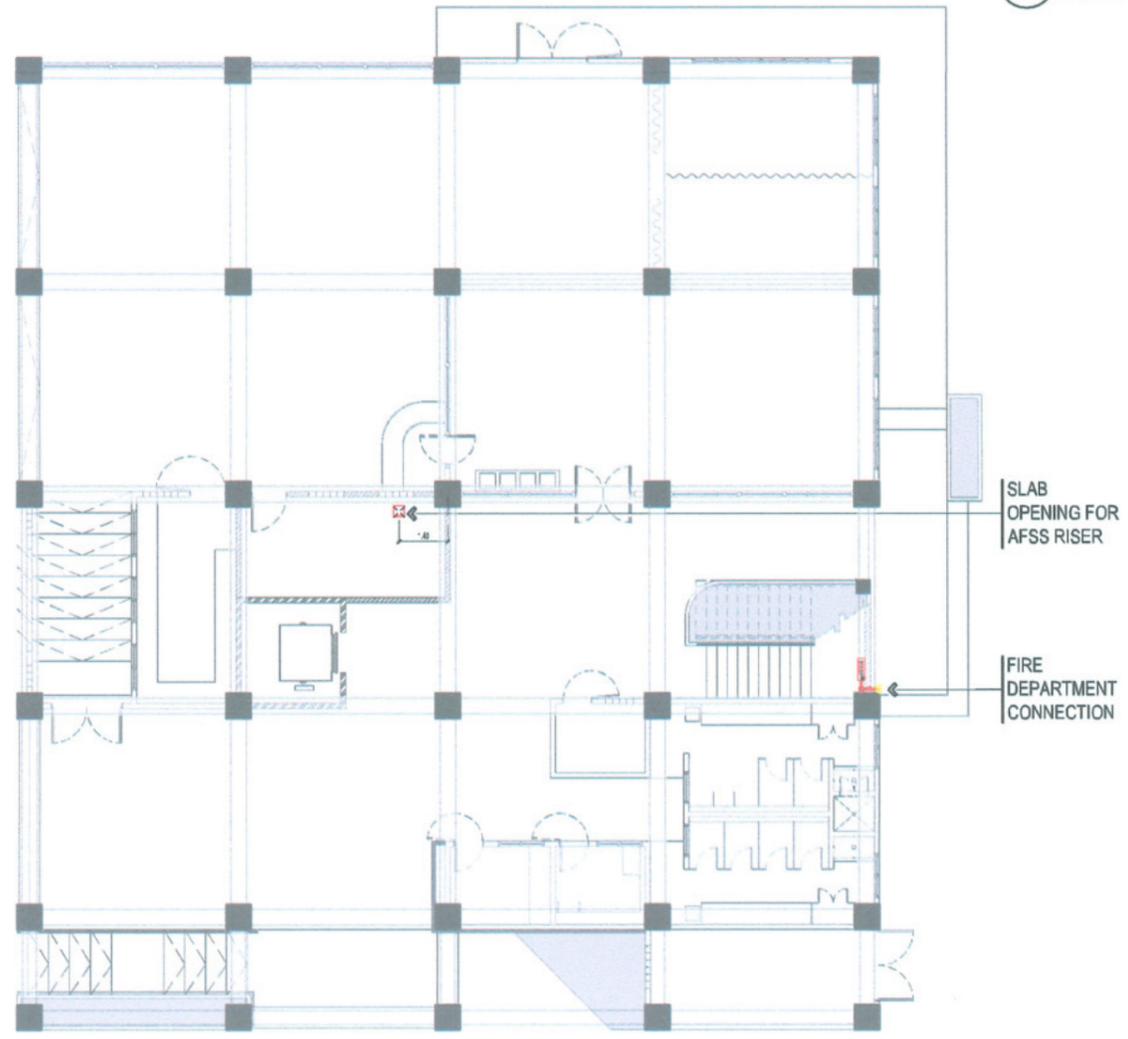
PAGE NO:
94/99

| LEGEND: | |
|---|-------------------------------|
|  | - FIRE HOSE CABINET |
|  | - FIRE DEPARTMENT CONNECTION |
|  | - BLACK IRON PIPE SCHED. 40 |
|  | - CHECK VALVE |
|  | - SLAB OPENING FOR AFSS RISER |

NOTE:
 FIRE DEPARTMENT CONNECTION SHALL BE
 INSTALLED AT A HEIGHT NOT EXCEEDING 1.2 m AND
 NOT LESS THAN 0.457 m ABOVE FINISHED GRADE.



03 TSU FEMALE DORMITORY
 M-1 FIRE DEPARTMENT CONNECTION DETAILS
 SCALE: NTS



01 GROUND FLOOR STANDPIPE LAYOUT
 M-1 SCALE 1:200 M

02 SECOND FLOOR STANDPIPE LAYOUT
 M-1 SCALE 1:200 M



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

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

PREPARED BY:

 ENGR. JOHN MYRO B. GANARA
 MECHANICAL ENGINEER

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:

 ATTY. GHEROLD C. BENITEZ
 CHIEF, ADMINISTRATION

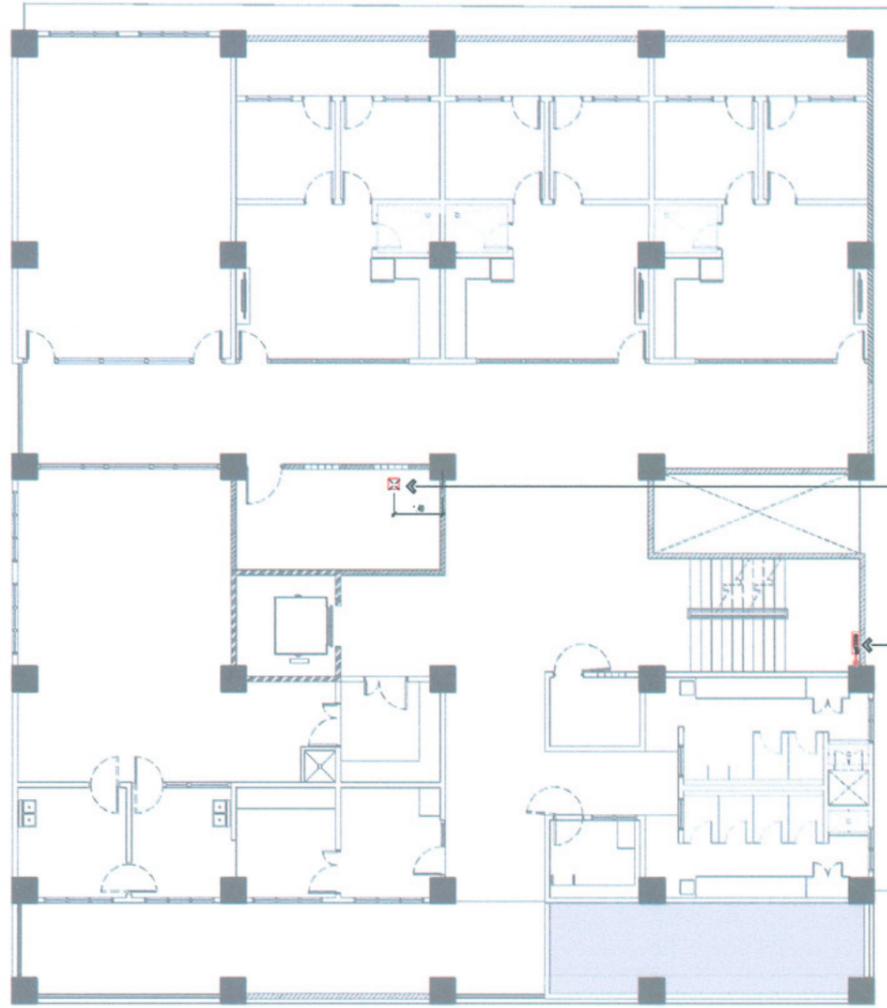
APPROVED:

 DR. ARNOLD E. VELASCO
 PRESIDENT

SHEET CONTENTS:
 AS SHOWN
 DATE: 2025

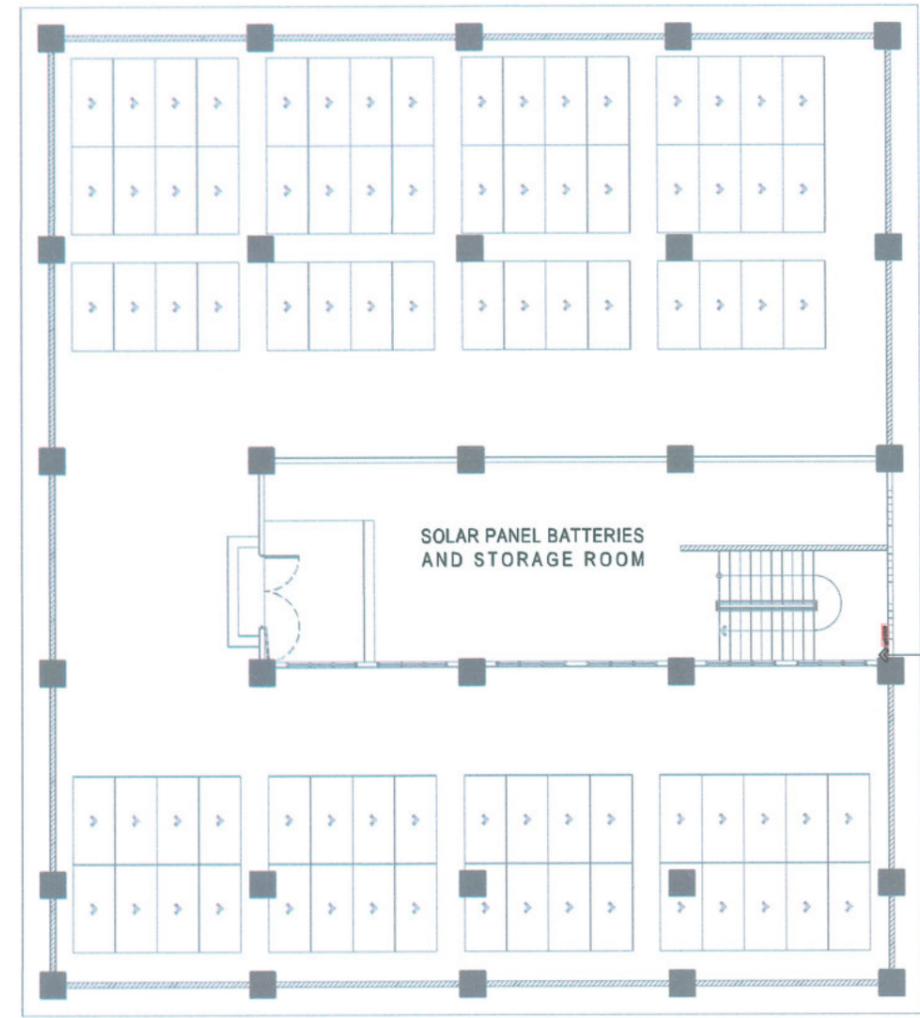
SHEET NO:
 M-01
 PAGE NO:
 95/99

| LEGEND: | |
|---|-------------------------------|
|  | - FIRE HOSE CABINET |
|  | - FIRE DEPARTMENT CONNECTION |
|  | - BLACK IRON PIPE SCHED. 40 |
|  | - SLAB OPENING FOR AFSS RISER |



SLAB
OPENING FOR
AFSS RISER

FIRE HOSE
CABINET



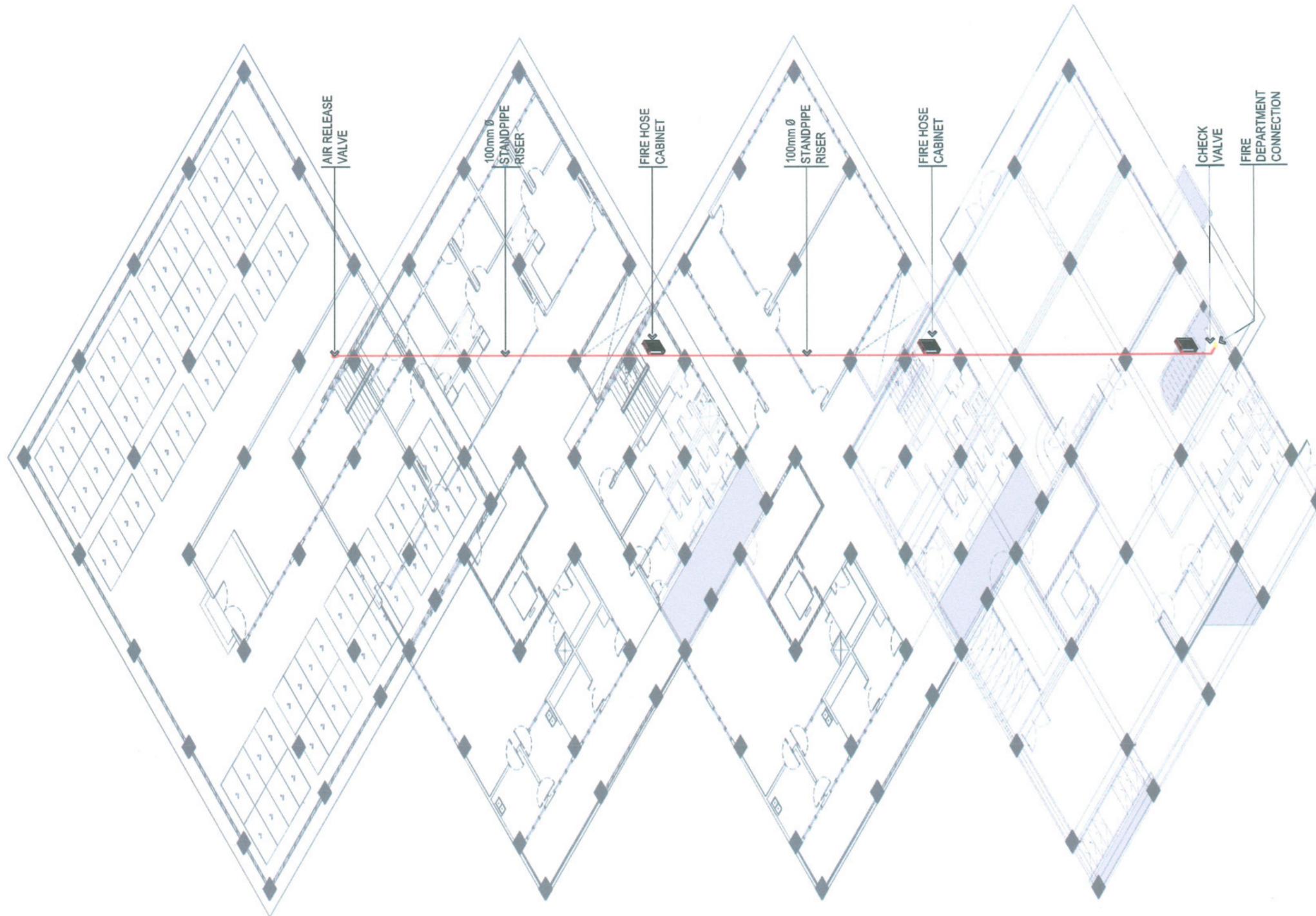
AIR
RELEASE
VALVE

SOLAR PANEL BATTERIES
AND STORAGE ROOM

01 THIRD FLOOR STANDPIPE LAYOUT
M-2 SCALE 1:200 M

02 ROOFDECK STANDPIPE LAYOUT
M-2 SCALE 1:200 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 I) | ENGR. JOHN MYRO B. GANARA MECHANICAL ENGINEER | AR. CHERRY L. FABIANES HEAD, OFDM-PDU | AR. ARLEN M. GUIEB DIRECTOR, OFDM | DR. LEO P. PIAO DIRECTOR, CSET | ATTY. GHEROUD C. BENITEZ VP FOR ADMINISTRATION | DR. ARNOLD E. VELASCO PRESIDENT | AS SHOWN | M-02 |
| | PROJECT LOCATION: | | | | | | | | PAGE NO.: |
| SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY | | | | | | | | DATE: 2025 | 96/99 |



01 ISOMETRIC VIEW STANDPIPE LAYOUT

SCALE 1:200 M

01
M-3



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 I) | PREPARED BY: | ENGR. JOHN MYRO B. GANARA MECHANICAL ENGINEER | 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: | ATTY. GHEROLDO C. BENITEZ VP FOR ADMINISTRATION | APPROVED: | DR. ARNOLD E. VELASCO PRESIDENT | SHEET CONTENTS: | AS SHOWN | SHEET NO.: | M-03 |
| PROJECT LOCATION: | SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY | | | | | | | | | | | | | DATE: 2025 | PAGE NO.: | 97/99 | |

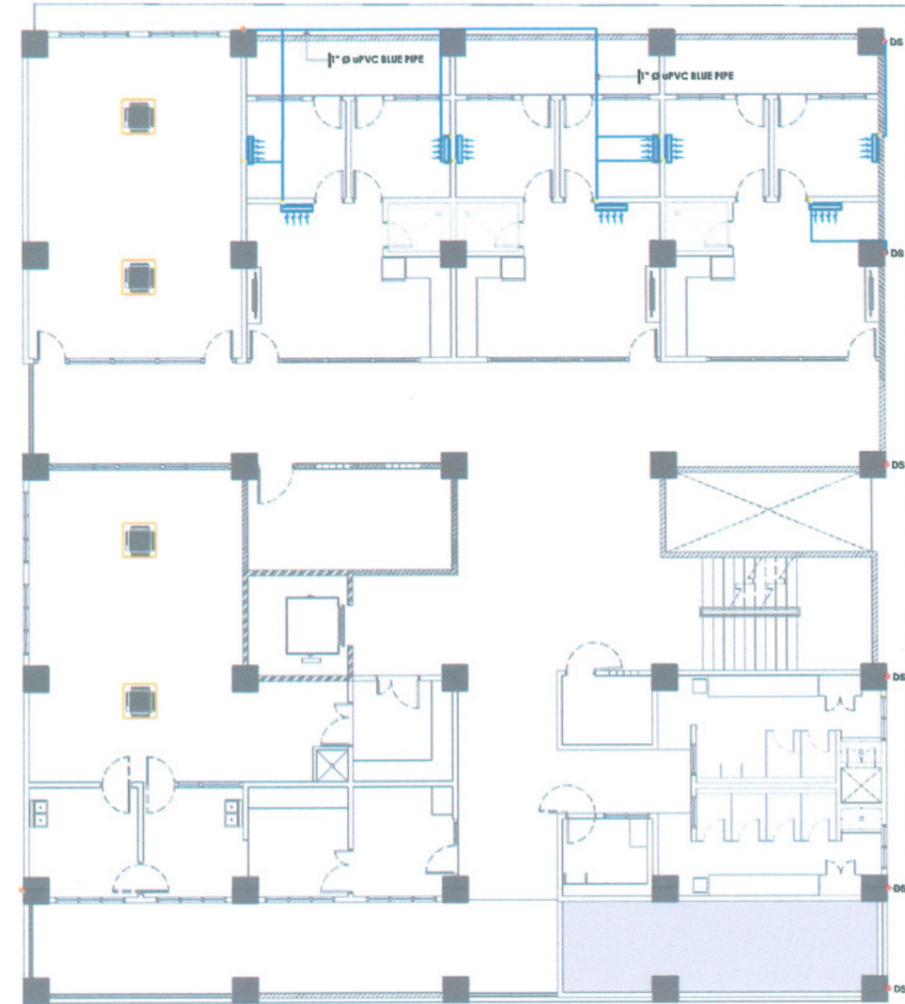
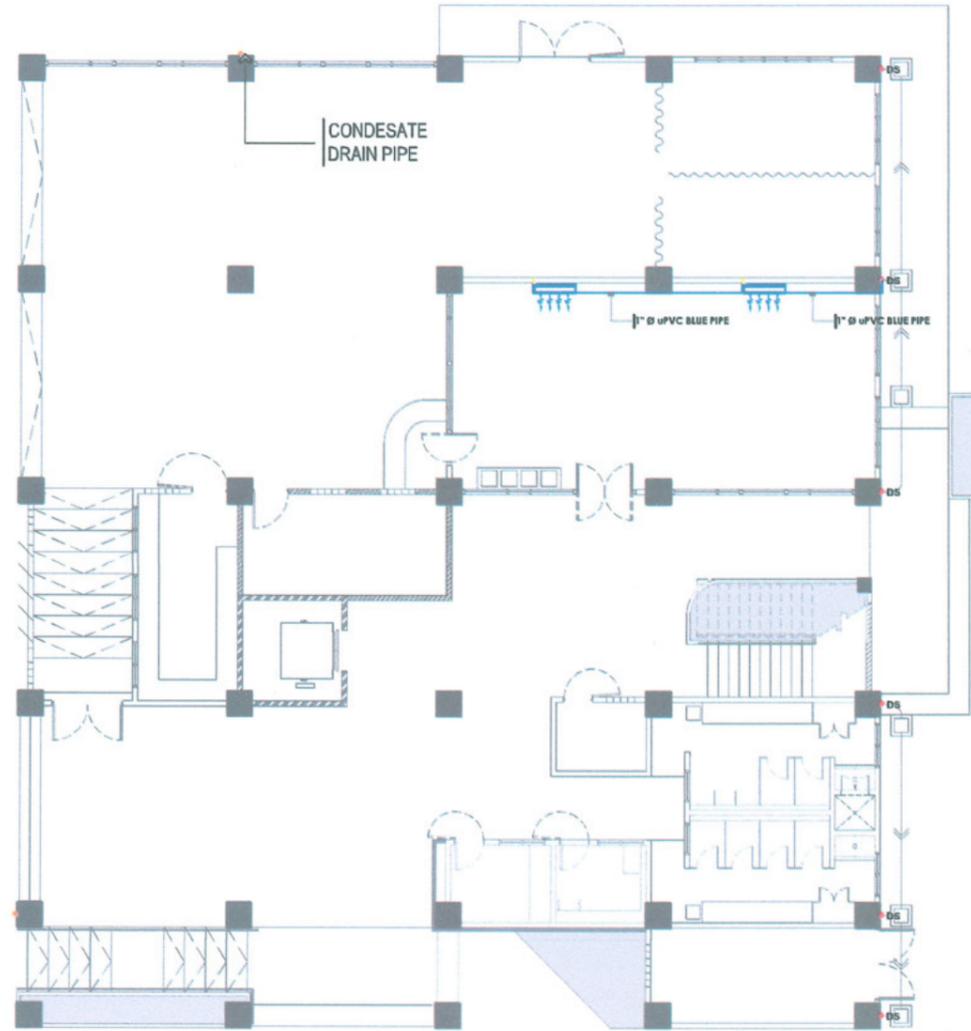
LEGENDS:

-  - AC INDOOR UNIT (FCU), ITEM NOT INCLUDED.
-  - 1" Ø UPVC BLUE PIPE
-  - 4" Ø PVC PIPE S1000
-  - ROUGHING INS/CHIPPING WORKS FOR COPPER TUBE

NOTE:

CONDENSATE DRAIN PIPES FOR AIR CONDITIONING UNITS SHALL BE MADE OF 25mm (1") Ø PVC (BLUE) AND 100mm (4") Ø ALL HORIZONTAL DRAIN SHALL MAINTAIN 2% SLOPE AND MUST BE CONCEALED ON WALL.

ACU'S NOT INCLUDED; PROPOSED LOCATIONS SHOWN FOR REFERENCE ONLY.



01 GROUND FLOOR CONDENSATE DRAIN PIPE LAYOUT
M-4 SCALE 1:200M

02 GROUND FLOOR CONDENSATE DRAIN PIPE LAYOUT
M-4 SCALE 1:200M



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 I)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

ENGR. JOHN MYRO B. GANARA
MECHANICAL ENGINEER

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:

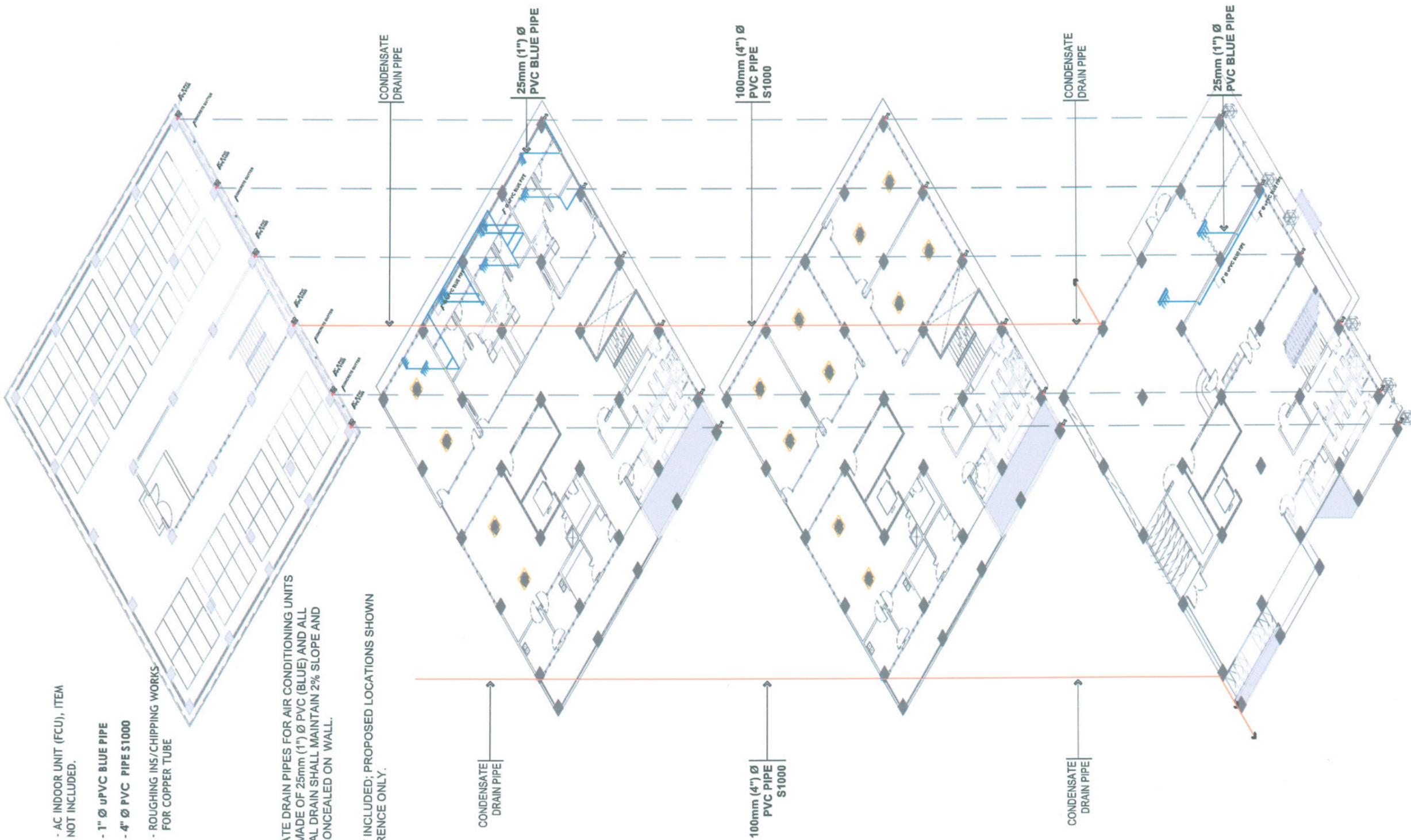
ATTY. GHEROLD A. BENITEZ
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
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LEGENDS:

- AC INDOOR UNIT (FCU), ITEM NOT INCLUDED.
- 1" Ø UPVC BLUE PIPE
- 4" Ø PVC PIPE S1000
- ROUGHING INS/CHIPPING WORKS FOR COPPER TUBE

NOTE:

CONDENSATE DRAIN PIPES FOR AIR CONDITIONING UNITS SHALL BE MADE OF 25mm (1") Ø PVC (BLUE) AND ALL HORIZONTAL DRAIN SHALL MAINTAIN 2% SLOPE AND MUST BE CONCEALED ON WALL.

ACU'S NOT INCLUDED; PROPOSED LOCATIONS SHOWN FOR REFERENCE ONLY.

CONDENSATE DRAIN PIPE

100mm (4") Ø PVC PIPE S1000

CONDENSATE DRAIN PIPE

25mm (1") Ø PVC BLUE PIPE

100mm (4") Ø PVC PIPE S1000

25mm (1") Ø PVC BLUE PIPE

01 ISOMETRIC VIEW CONDENSATE DRAIN PIPE LAYOUT

M-5 SCALE 1:250 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 I)

PROJECT LOCATION:
 SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

 ENGR. JOHN MYRO B. GANARA
 MECHANICAL ENGINEER

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:

 ATTY. GHEROLD C. BENITEZ
 ASST. FOR ADMINISTRATION

APPROVED:

 DR. ARNOLD E. VELASCO
 PRESIDENT

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