P E R S P E C T I V E V I E W

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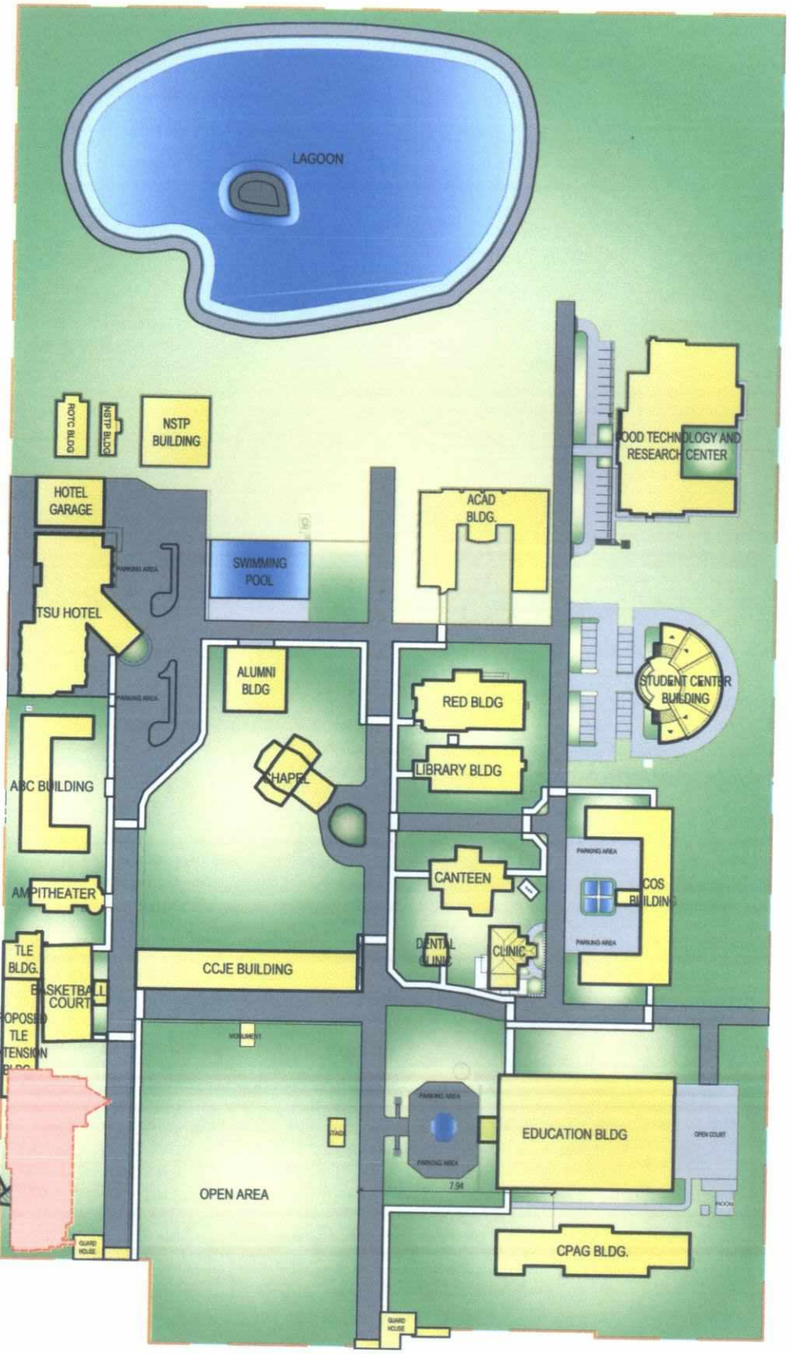
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

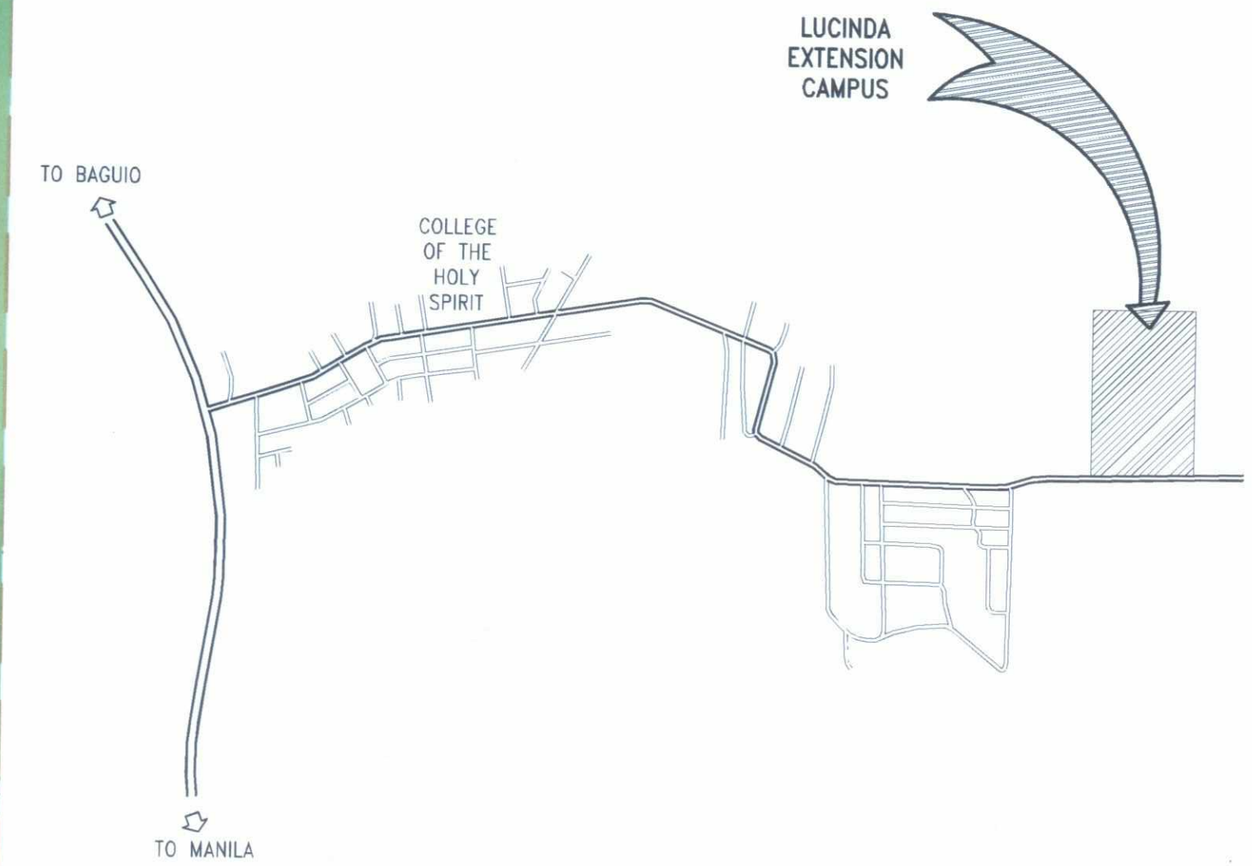
PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE I)	AR. ZEDRIC C. GANDO, RMP ARCHITECT/MASTER PLUMBER , OFDM	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ERWIN P. LACANLALE DEAN , COED	ATTY. GHEROLD O. BENITEZ VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	A - 1
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 1 /59

OCT 0 3 2025



LOCATION MAP

SCALE 1:800



VICINITY MAP

SCALE : NTS

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PROJECT TITLE: CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE I)	PREPARED BY: AR. ZEDRIC C. GANDO, RMP, ARCHITECT/MASTER PLUMBER , OFDM	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. ERWIN P. LACANLALE, DEAN, COED	RECOMMENDING APPROVAL: ATTY. GHEROLD C. BENITEZ, VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A - 2
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 2 /59

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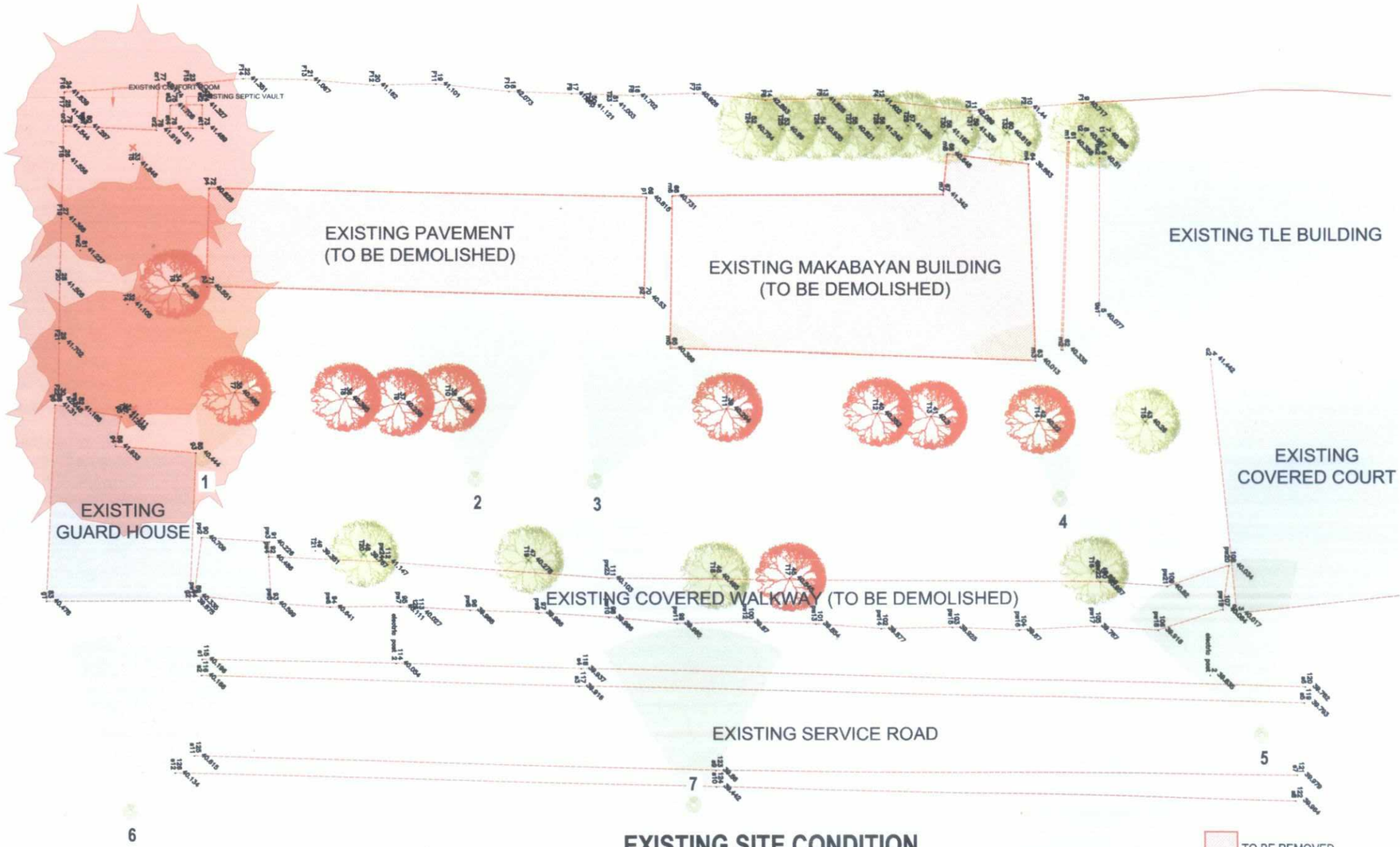

EXISTING SITE CONDITION

SCALE 1:300M

TO BE REMOVED

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PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 3 /59

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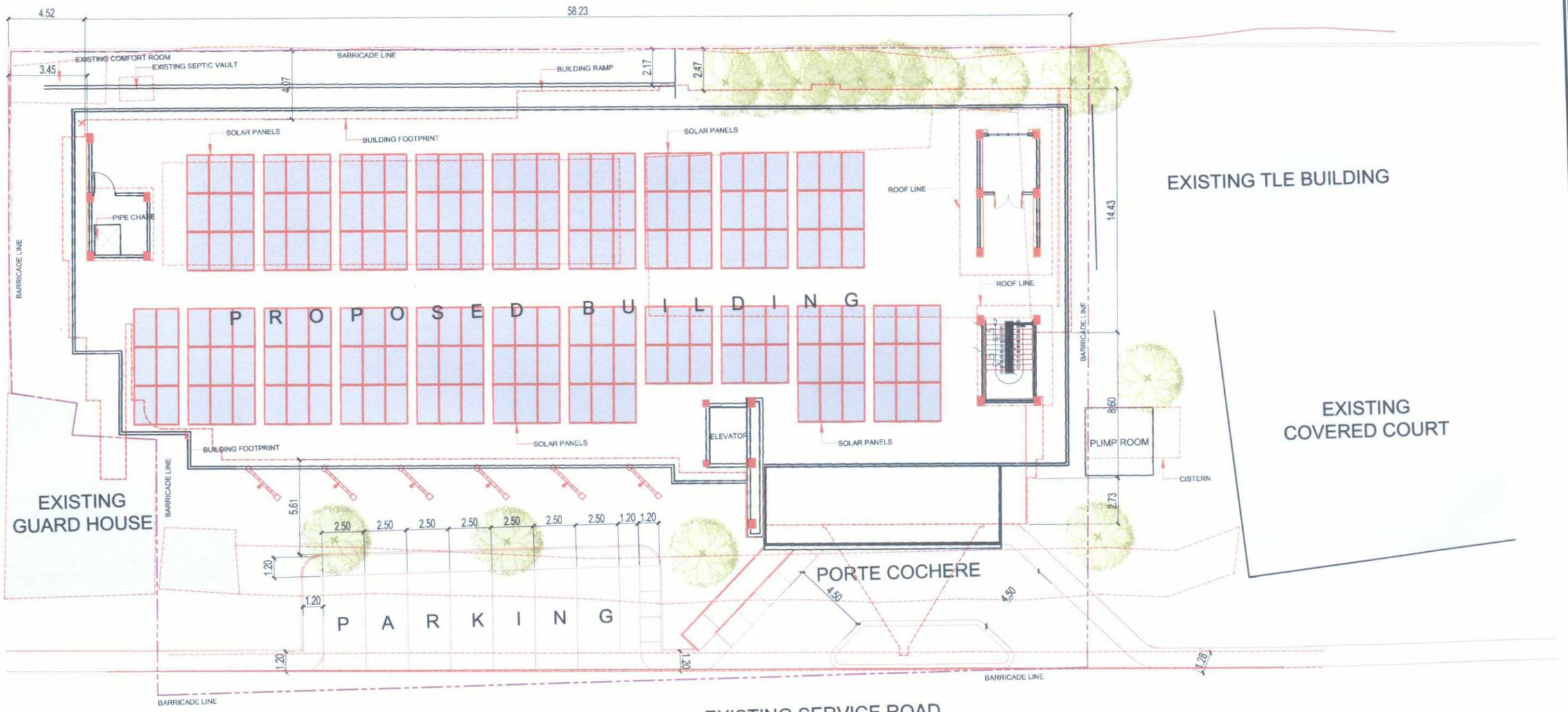

SITE DEVELOPMENT PLAN

SCALE 1:250M

NOTE:
1. ALL ARCHITECTURAL DRAWINGS SERVE AS REFERENCE ONLY & NOT INCLUDED IN THE SCOPE OF THE PROJECT
2. APPLY SOIL TREATMENT FOR PEST CONTROL AND GROUND PREPARATION IN THE WHOLE BUILDING FOOTPRINT

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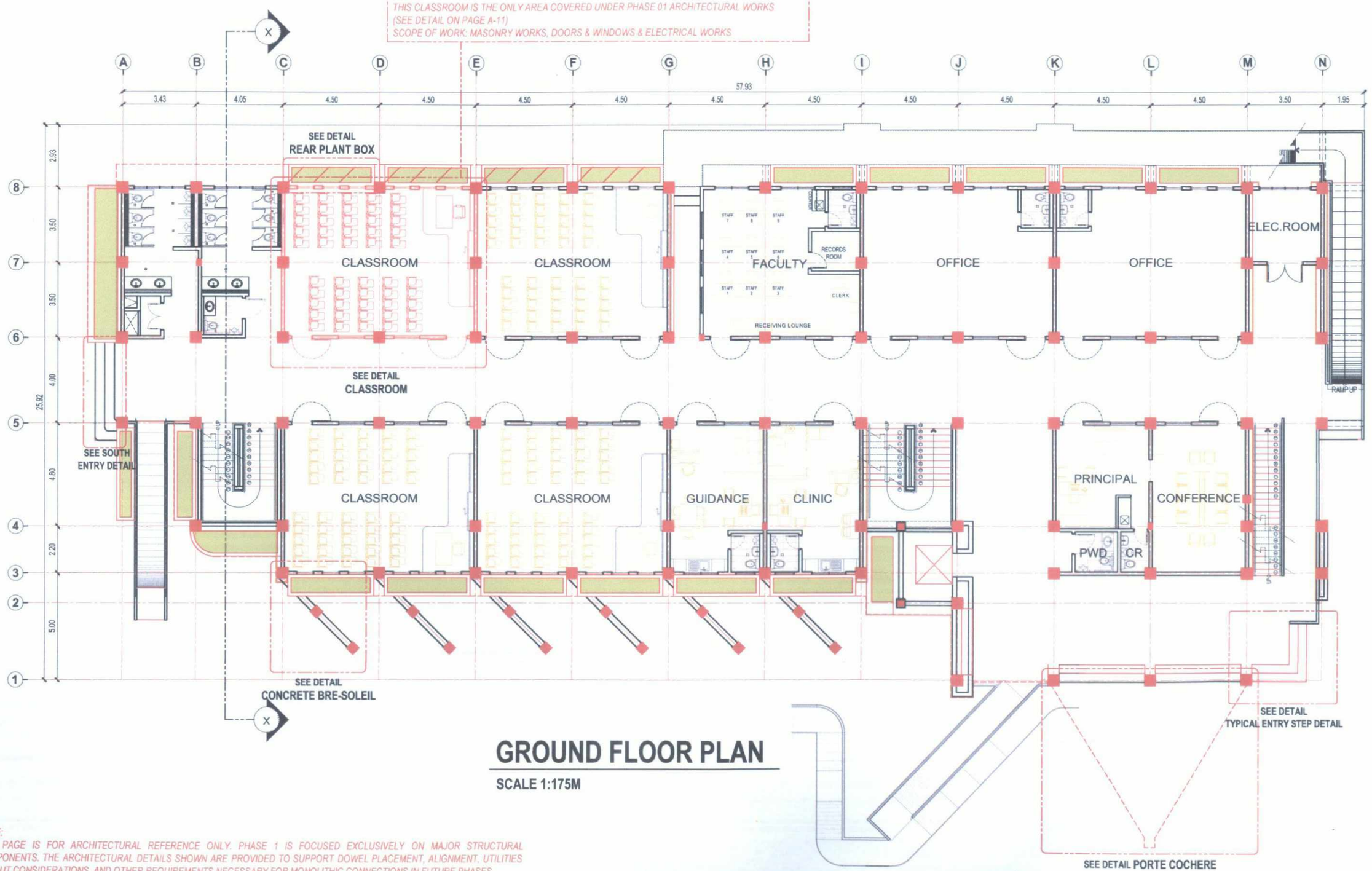
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 4 /59

NOTE:
THIS CLASSROOM IS THE ONLY AREA COVERED UNDER PHASE 01 ARCHITECTURAL WORKS
(SEE DETAIL ON PAGE A-11)
SCOPE OF WORK: MASONRY WORKS, DOORS & WINDOWS & ELECTRICAL WORKS



GROUND FLOOR PLAN

SCALE 1:175M

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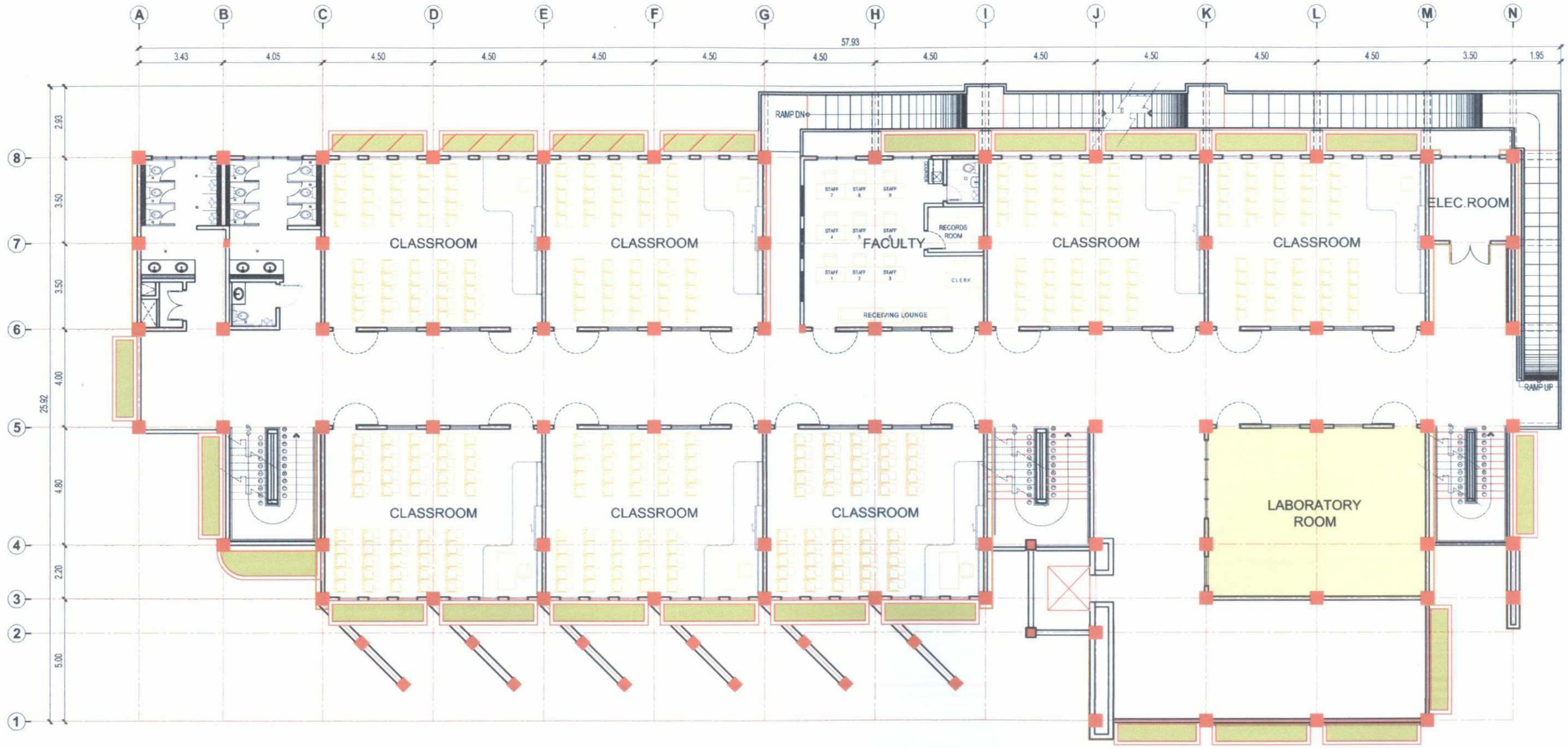
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 5 /59



TYPICAL SECOND TO FOURTH FLOOR PLAN

SCALE 1:175M

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PROJECT LOCATION:								PAGE NO:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	6 /59

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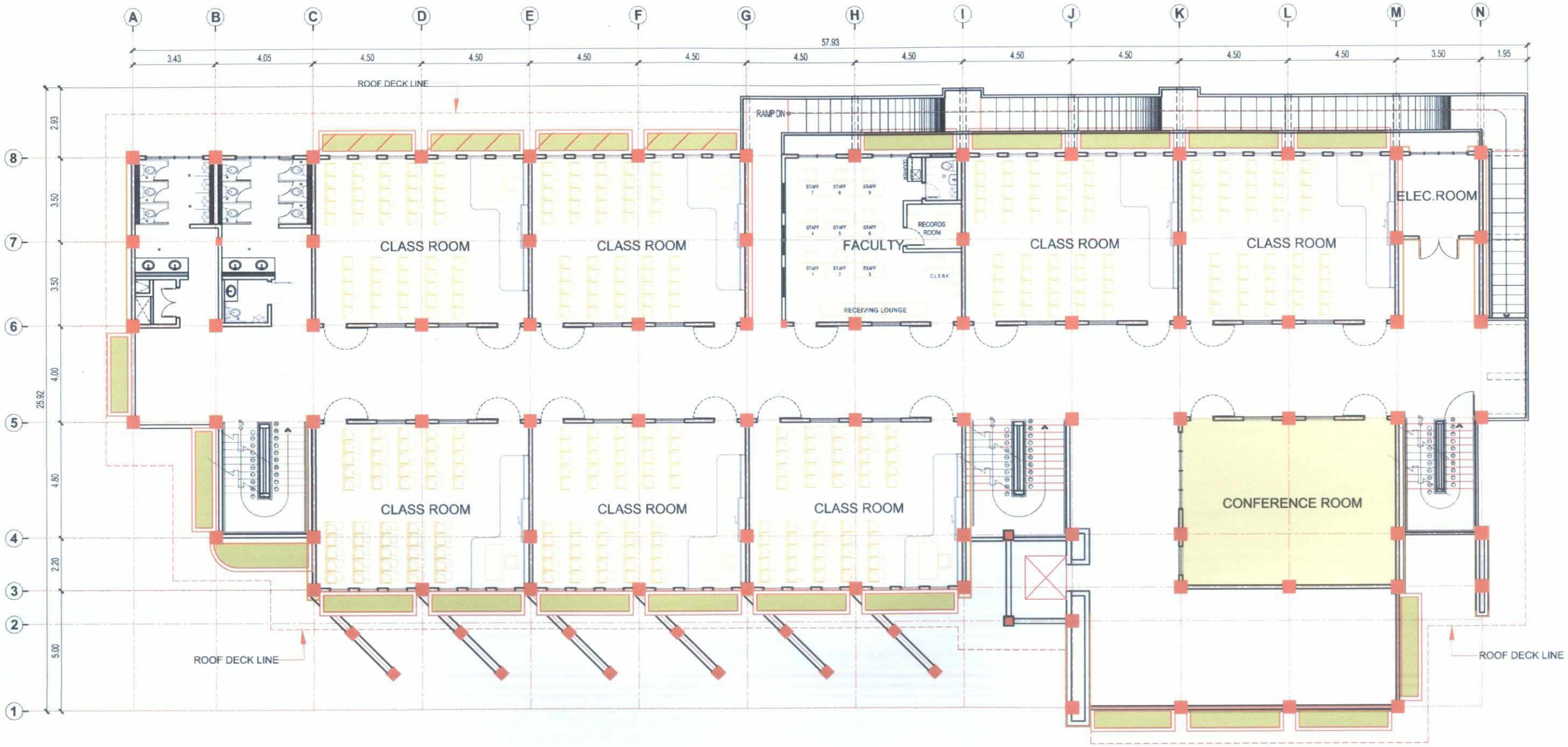

FIFTH FLOOR PLAN

SCALE 1:175M

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PROJECT LOCATION:								PAGE NO:
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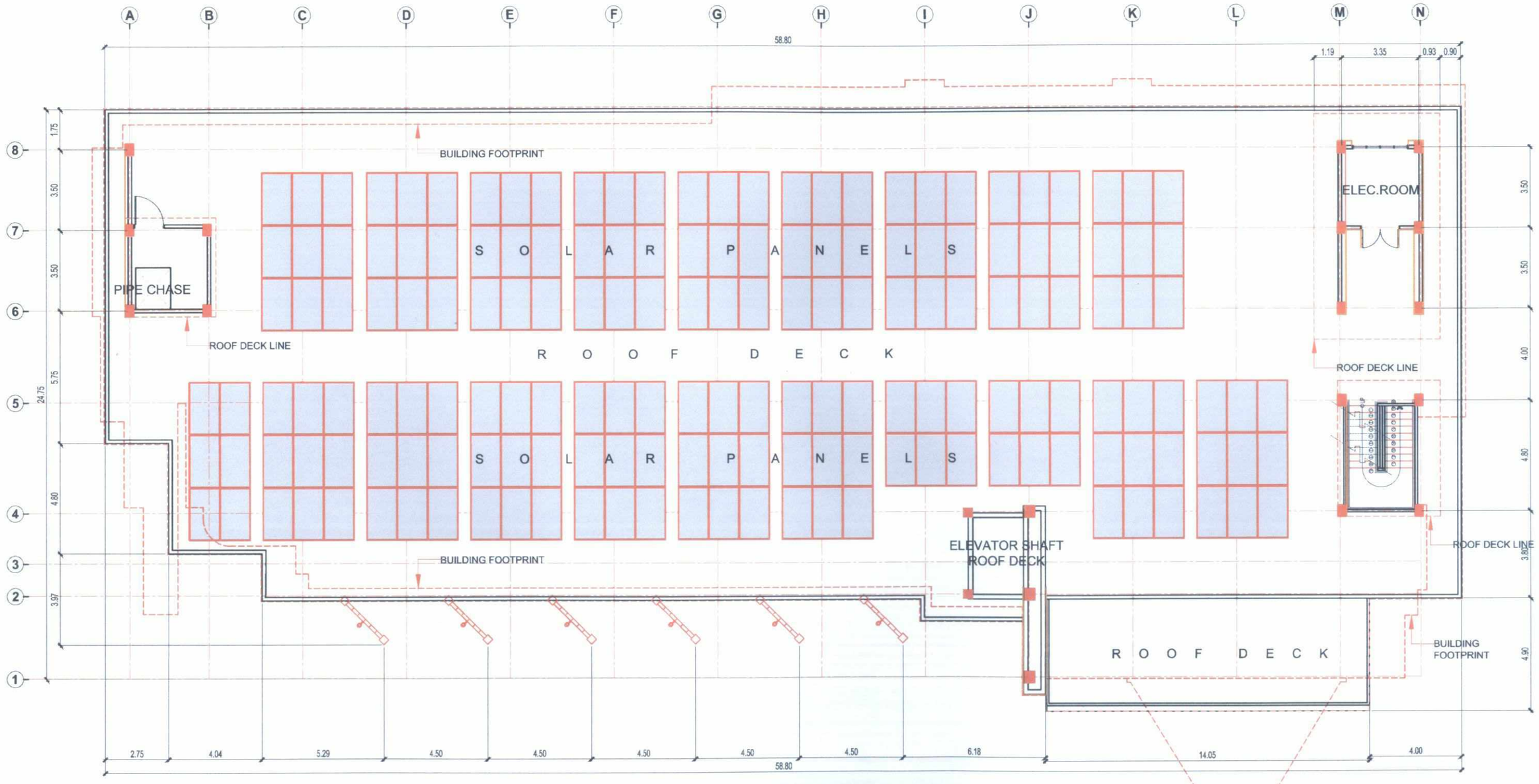

ROOF DECK FLOOR PLAN

SCALE 1:175M

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PROJECT LOCATION:							DATE: SEPTEMBER 2025	PAGE NO: 8 /59
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY								

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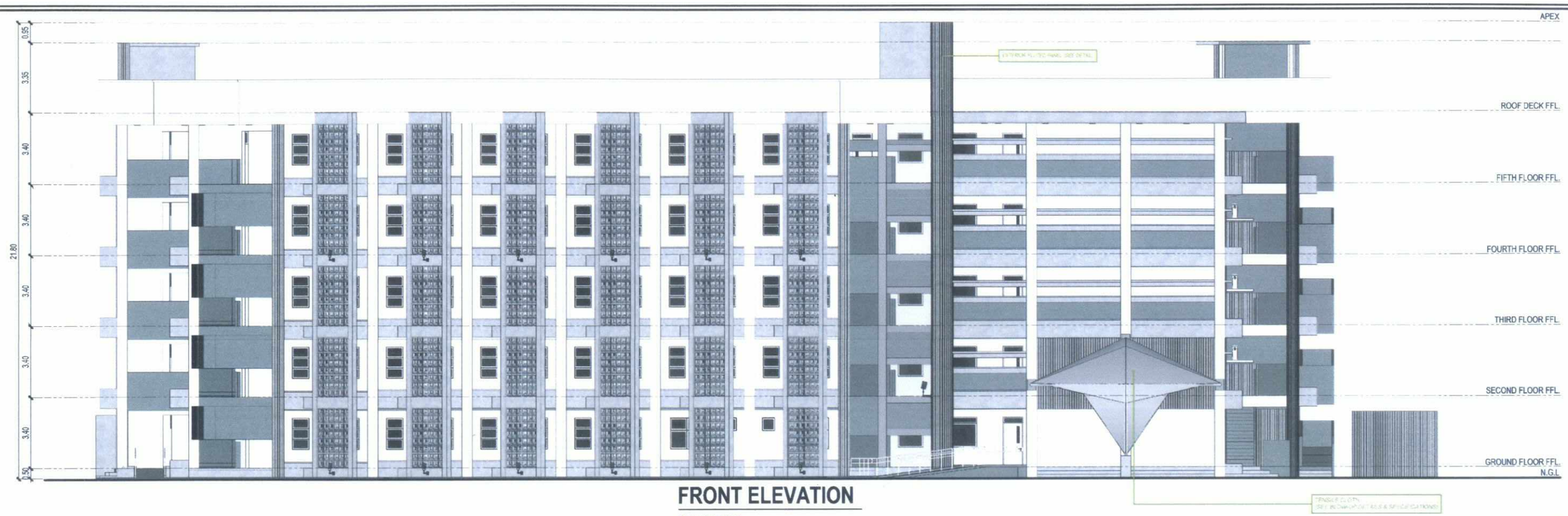

FRONT ELEVATION

SCALE 1:200M

REAR ELEVATION

SCALE 1:200M

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PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 9 /59

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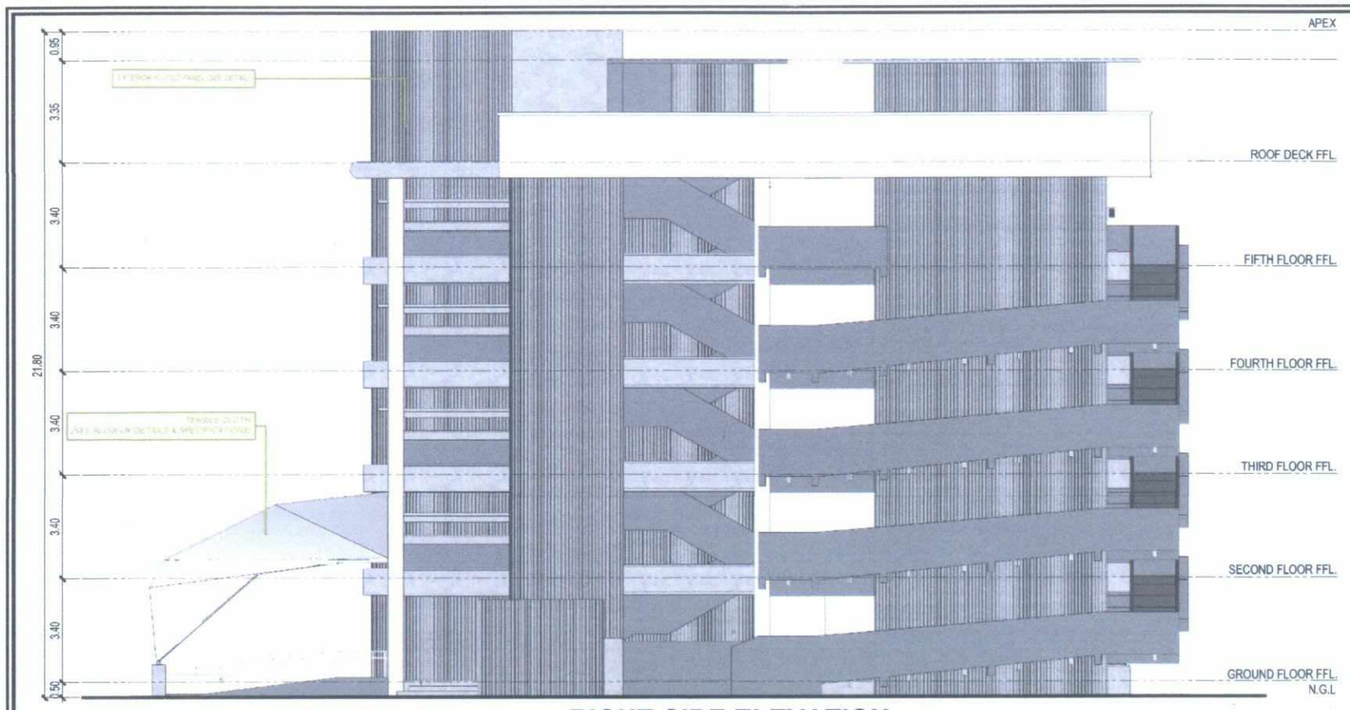
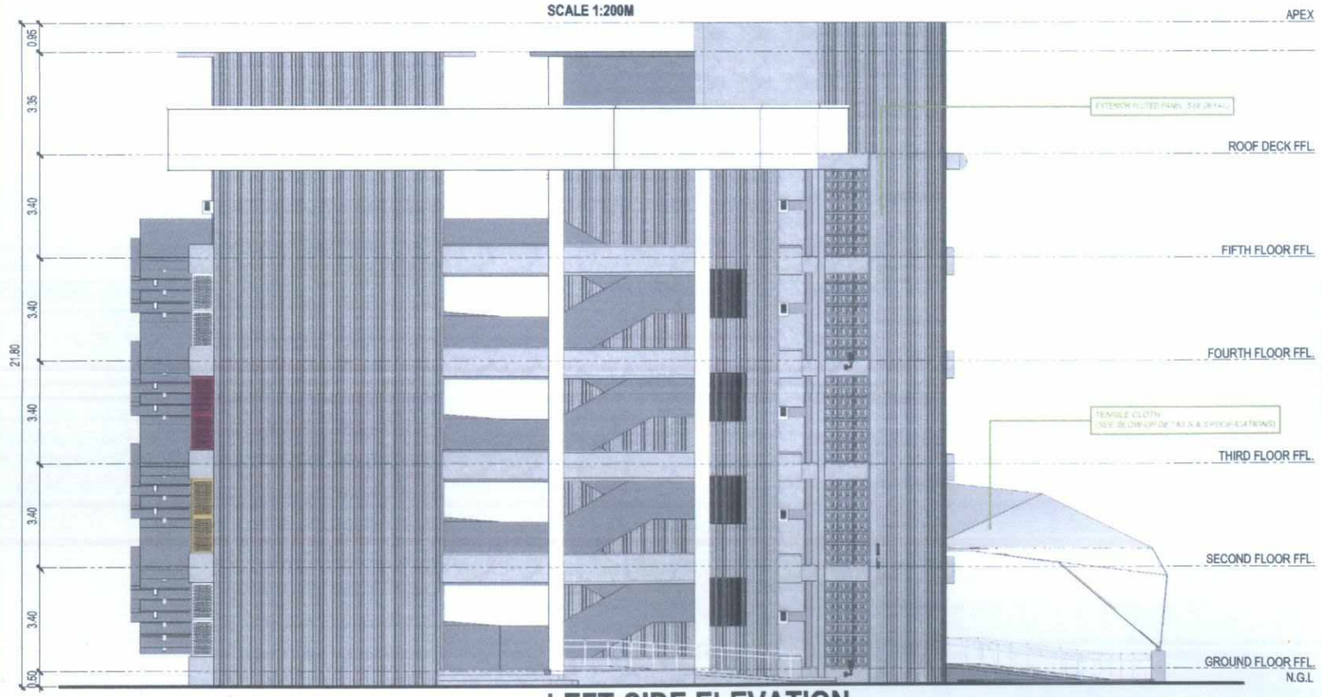


RIGHT-SIDE ELEVATION

SCALE 1:200M

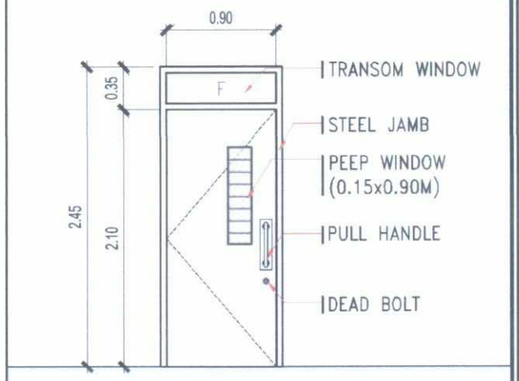


LEFT-SIDE ELEVATION

SCALE 1:200M

BUILDING ELEVATION LEGENDS :

- INDUSTRIAL CONCRETE FINISH WALL
- PEBBLE WASH OUT WALL FINISH (PLANT BOX)
- TENSILE CLOTH (SEE BLOW-UP DETAILS & SPECIFICATIONS)
- ONE-WAY REFLECTIVE (EXTERIOR) BRONZE GLASS MIRROR (WINDOWS)
- WPC EXTERIOR FLUTED PANEL

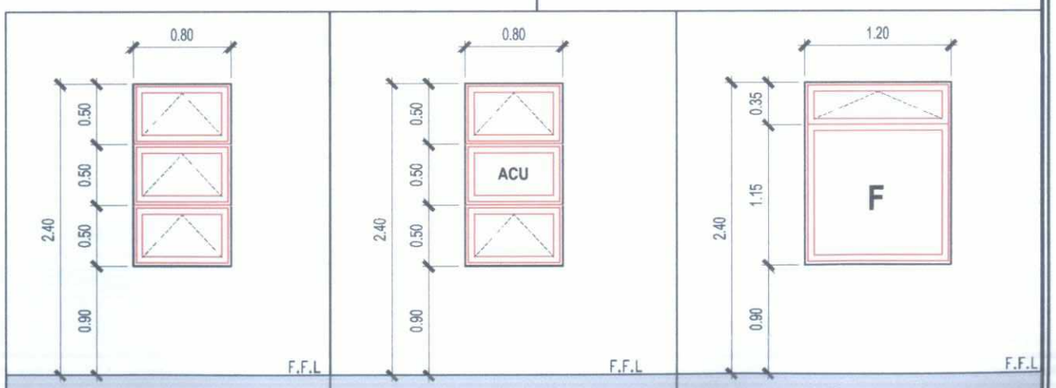


D1

2 – SETS REQUIRED

LOCATION: CLASSROOMS & OFFICES

DOOR PANEL: 50mm SINGLE-LEAF IN GI SHEET PANEL GA. 18 (SMOOTH PAINT FINISH)
DOOR JAMB: GA.16 GI SHEET @ SINGLE RABBET (SMOOTH PAINT FINISH)
DOOR INSULATION: HONEYCOMB
TRANSOM WINDOW FRAME: GA.16 GI SHEET @
TRANSOM GLASS: 6mm THK. CLEAR TEMPERED GLASS
PEEP WINDOW GLASS: 6mm THK. CLEAR TEMPERED GLASS
HINGES: HEAVY DUTY BALL BEARING (1 @ TOP 1 @ MID 1 @ BOTTOM)
DEADBOLT: STAINLESS STEEL HEAVY DUTY DOUBLE CYLINDER
PULL HANDLE: 300mm x 100mm x 1.5mm THK. ROUND HEAVY DUTY STAINLESS STEEL WITH PLATE
DOOR CLOSER: AUTOMATIC HEAVY DUTY STAINLESS STEEL FOR STEEL DOOR



W1

4 – SETS REQUIRED

LOCATION: CLASSROOMS & OFFICES

ALUMINUM AWNING WINDOW IN 1-3/4" X 4" WHITE POWDER-COATED ALUMINUM FRAME WITH 6MM THK. LIGHT TINTED CLEAR TEMPERED GLASS (EXTERIOR) WITH COMPLETE ACCESSORIES

W2

2 – SETS REQUIRED

LOCATION: CLASSROOMS & OFFICES

ALUMINUM AWNING WINDOW IN 1-3/4" X 4" WHITE POWDER-COATED ALUMINUM FRAME WITH 6MM THK. LIGHT TINTED CLEAR TEMPERED GLASS, COMPLETE WITH ACU FRAMING (EXTERIOR) WITH COMPLETE ACCESSORIES

W3

2 – SET REQUIRED

LOCATION: CLASSROOMS & OFFICES

ALUMINUM FIXED WINDOW WITH AWNING TRANSOM IN 1-3/4" X 4" WHITE POWDER-COATED ALUMINUM FRAME WITH 6MM THK. ONE-WAY REFLECTIVE TEMPERED GLASS (INTERIOR) WITH COMPLETE ACCESSORIES

SCHEDULE OF DOORS & WINDOWS

SCALE 1:50M

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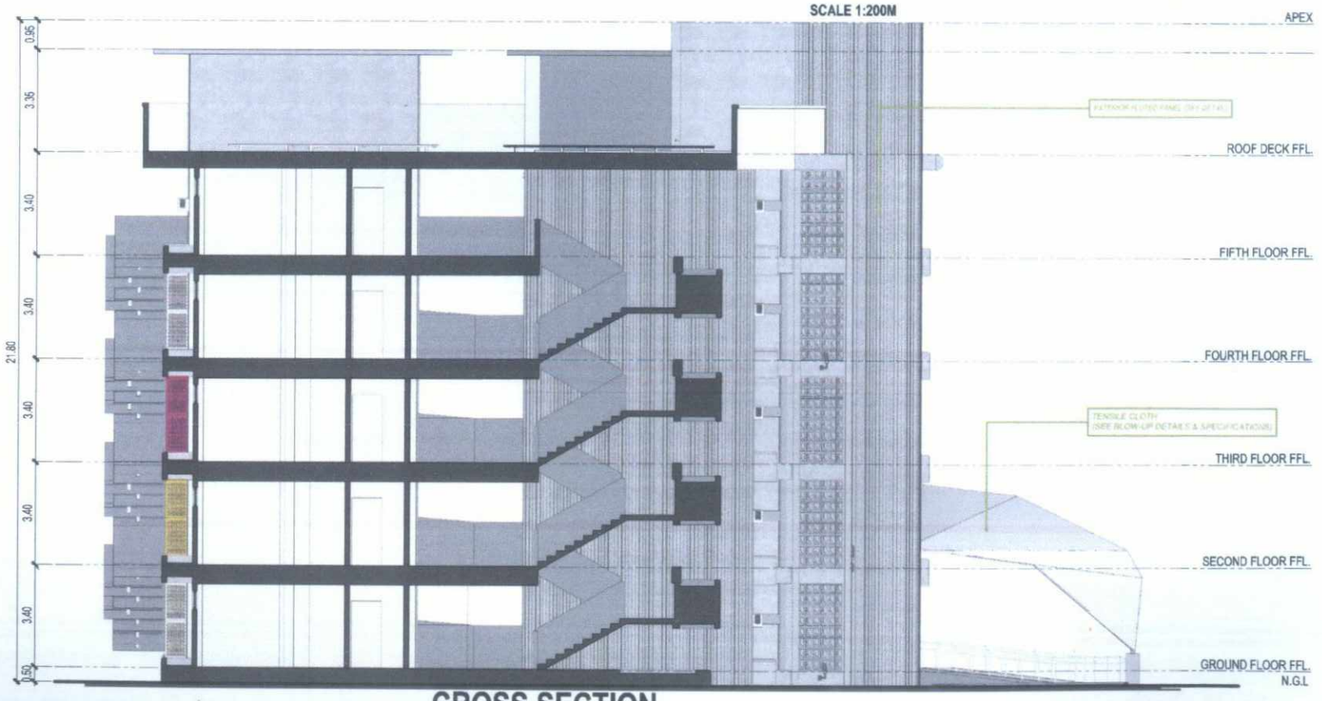
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 10/59

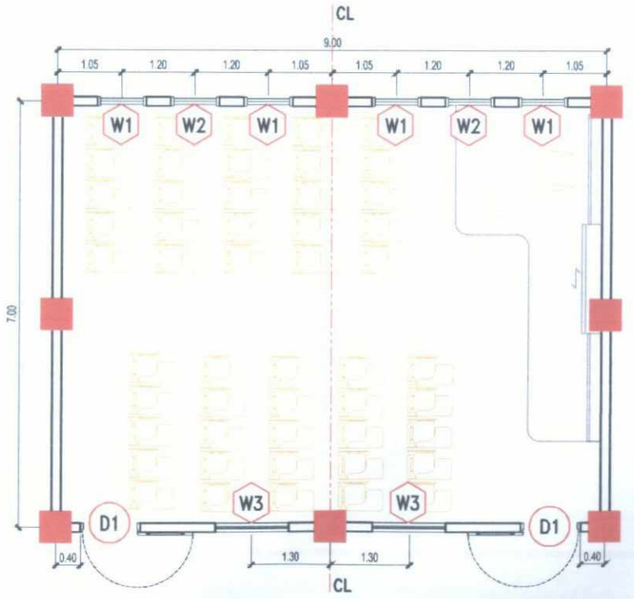
LONGITUDINAL SECTION

SCALE 1:200M



CROSS SECTION

SCALE 1:200M



PROPOSED TYPICAL CLASSROOM FLOOR PLAN

SCALE 1:50M

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BUILDING ELEVATION LEGENDS :

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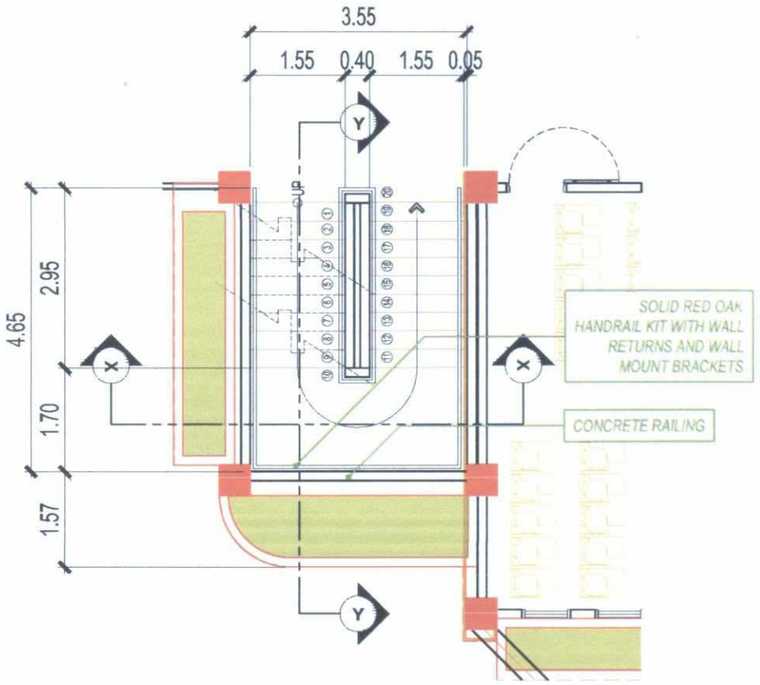
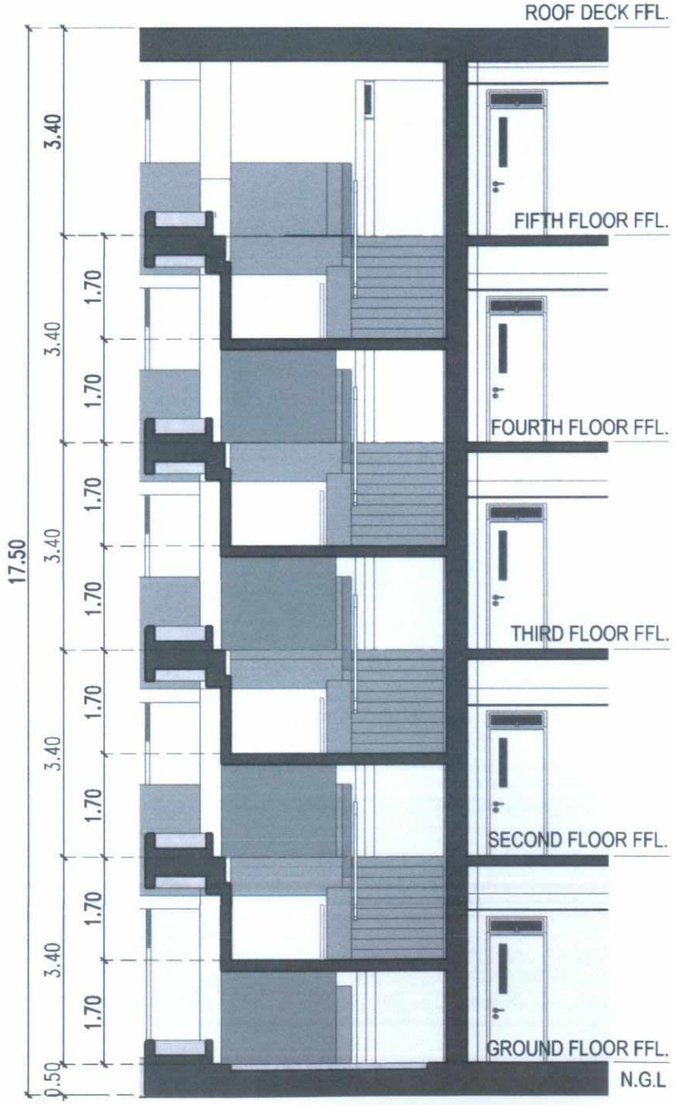
- TENSILE CLOTH (SEE BLOW-UP DETAILS & SPECIFICATIONS)
- ONE-WAY REFLECTIVE (EXTERIOR) BRONZE GLASS MIRROR (WINDOWS)
- WPC EXTERIOR FLUTED PANEL



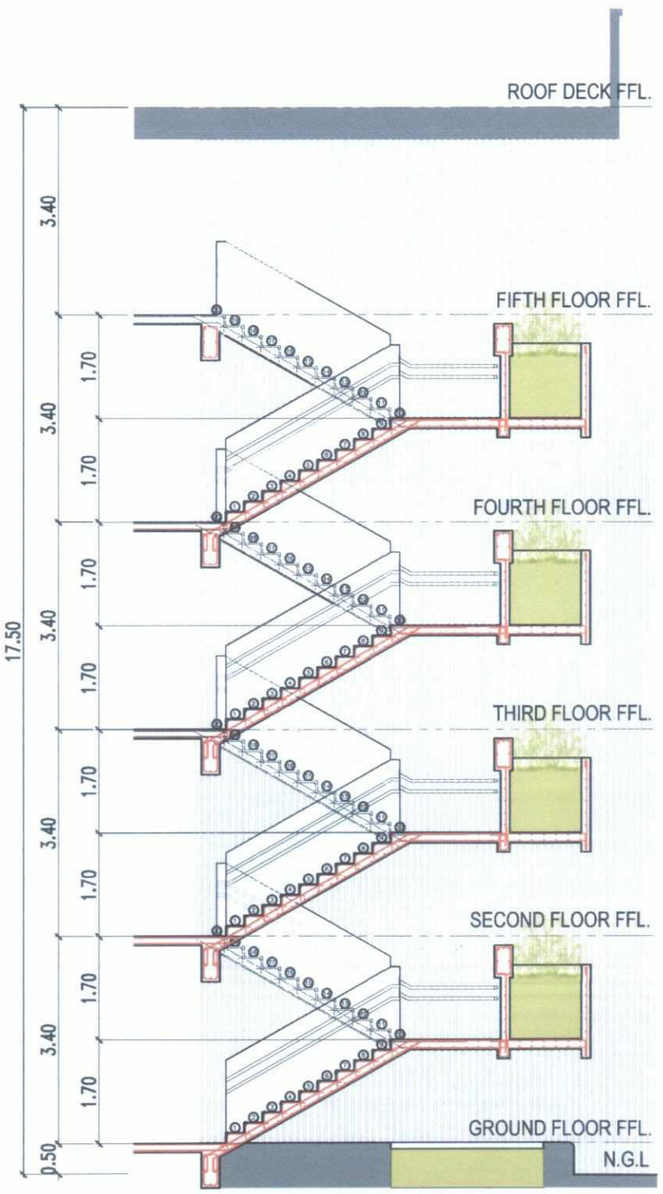
STAIR 01 PLAN

SCALE 1:100M



STAIR 01 CROSS SECTION THRU X-X

SCALE 1:100M



STAIR 01 LONGITUDINAL SECTION THRU Y-Y

SCALE 1:100M

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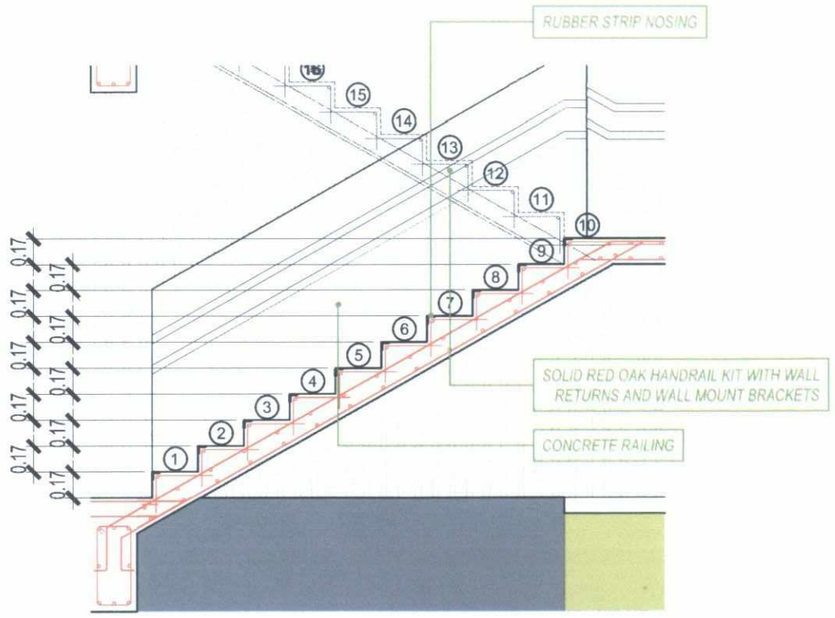
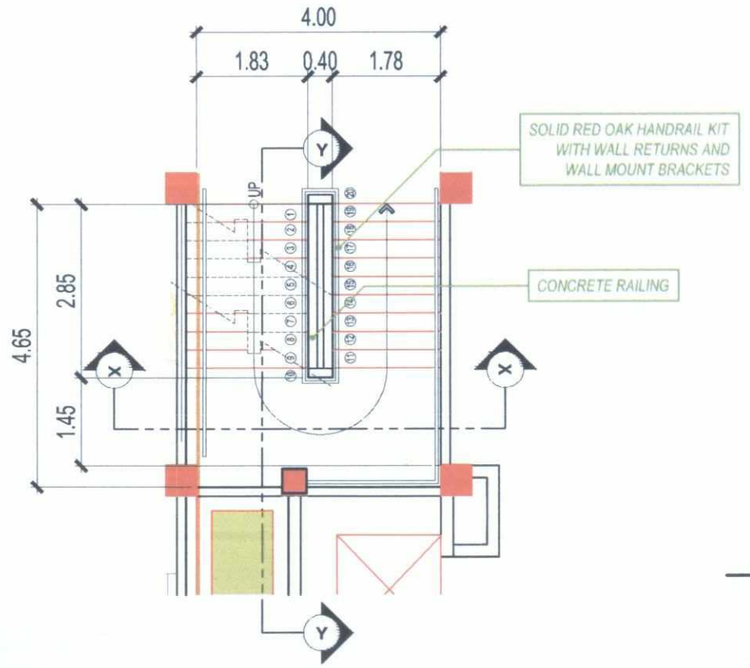


TYPICAL STAIR BLOW-UP SECTION

SCALE 1:40M

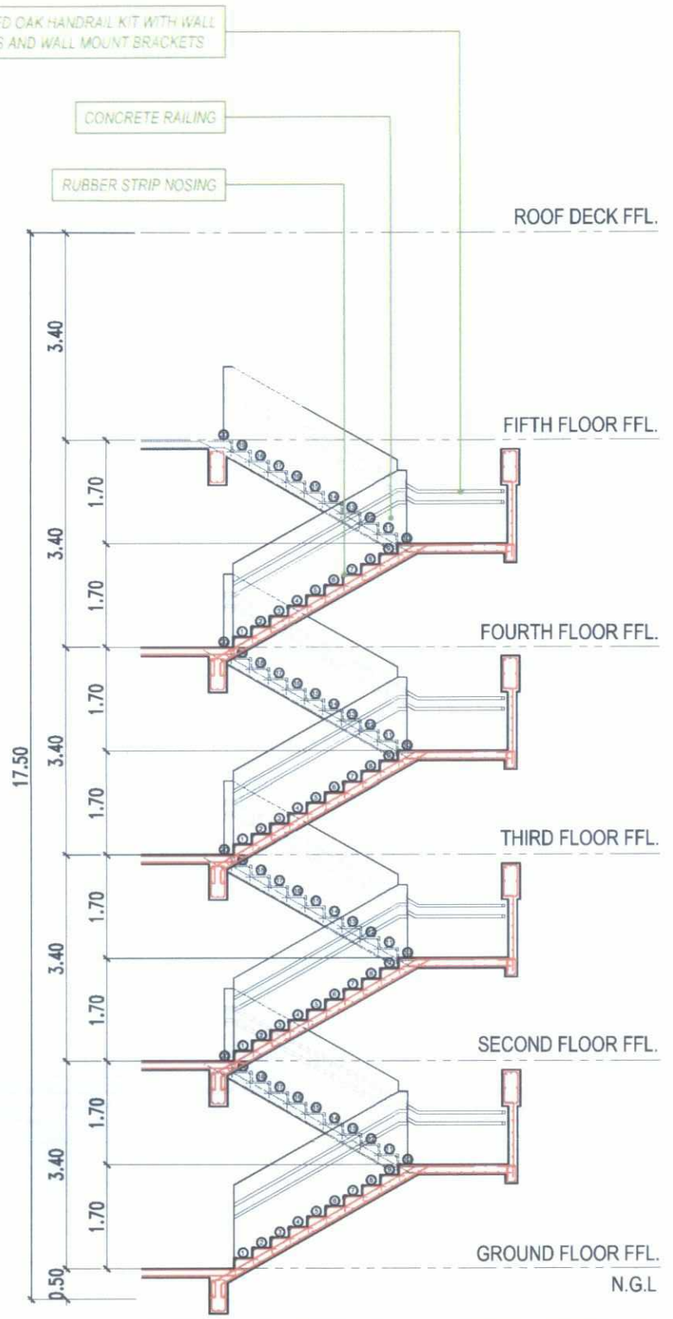


STAIR 02 PLAN

SCALE 1:100M

STAIR 02 CROSS SECTION THRU X-X

SCALE 1:100M



STAIR 02 LONGITUDINAL SECTION THRU Y-Y

SCALE 1:100M

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

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PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 13/59

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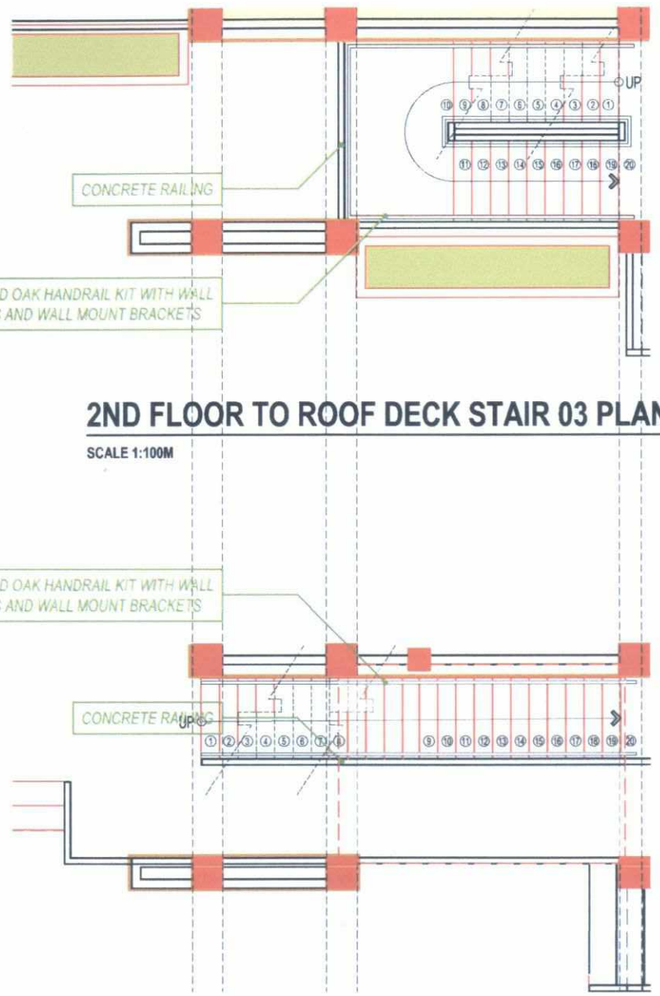
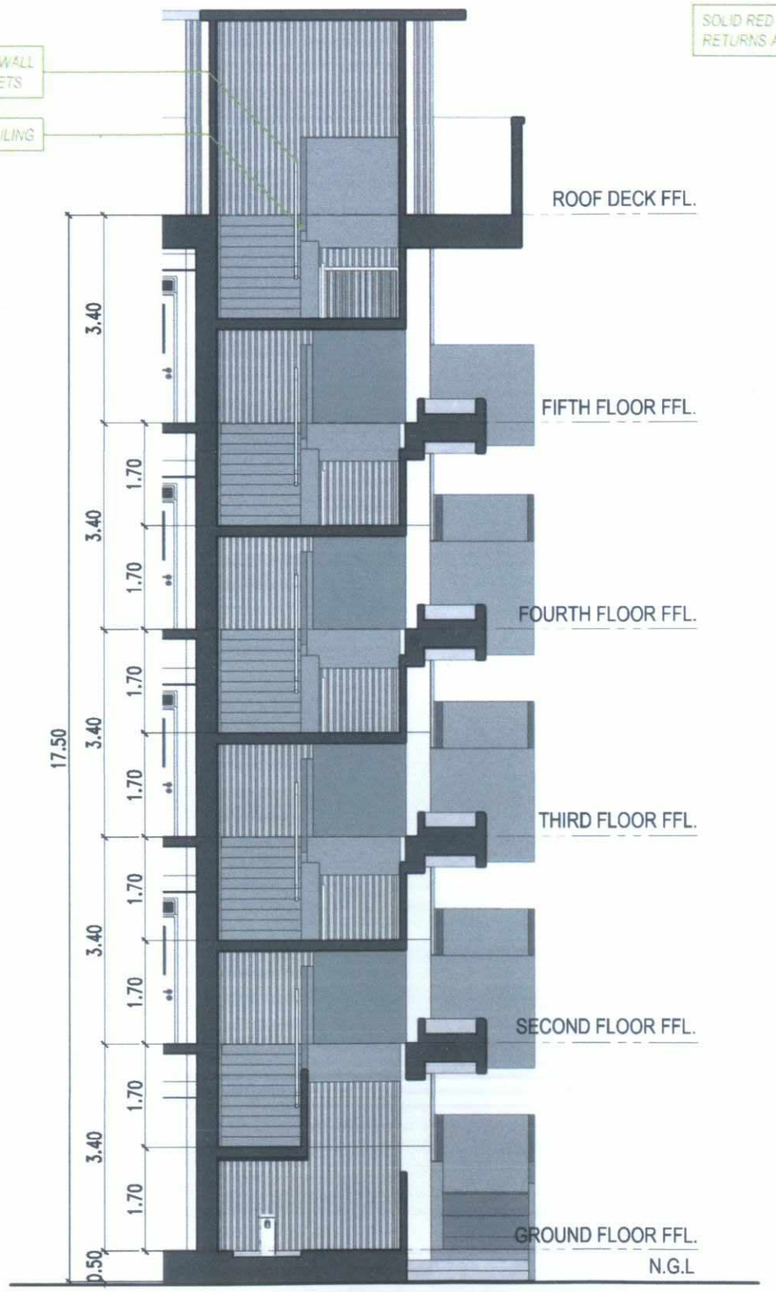


2ND FLOOR TO ROOF DECK STAIR 03 PLAN

SCALE 1:100M

GROUND FLOOR STAIR 03 PLAN

SCALE 1:40M



STAIR 03 CROSS SECTION

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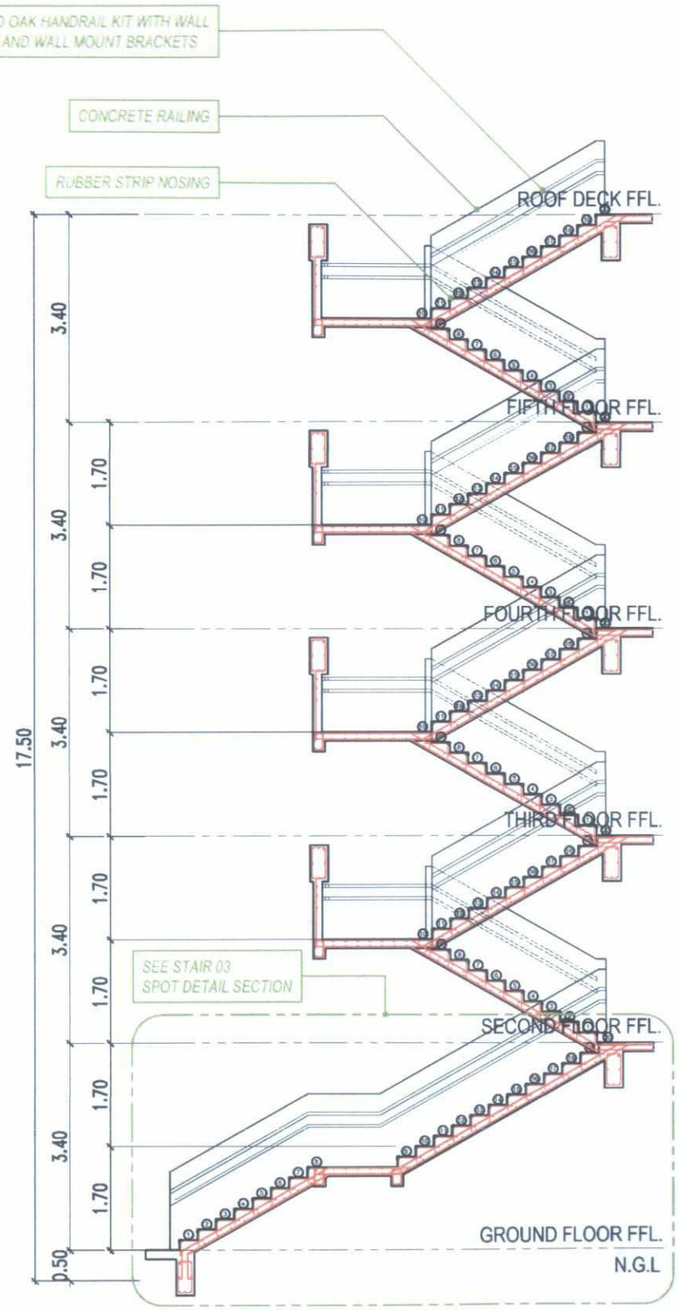

STAIR 03 LONGITUDINAL SECTION

SCALE 1:100M

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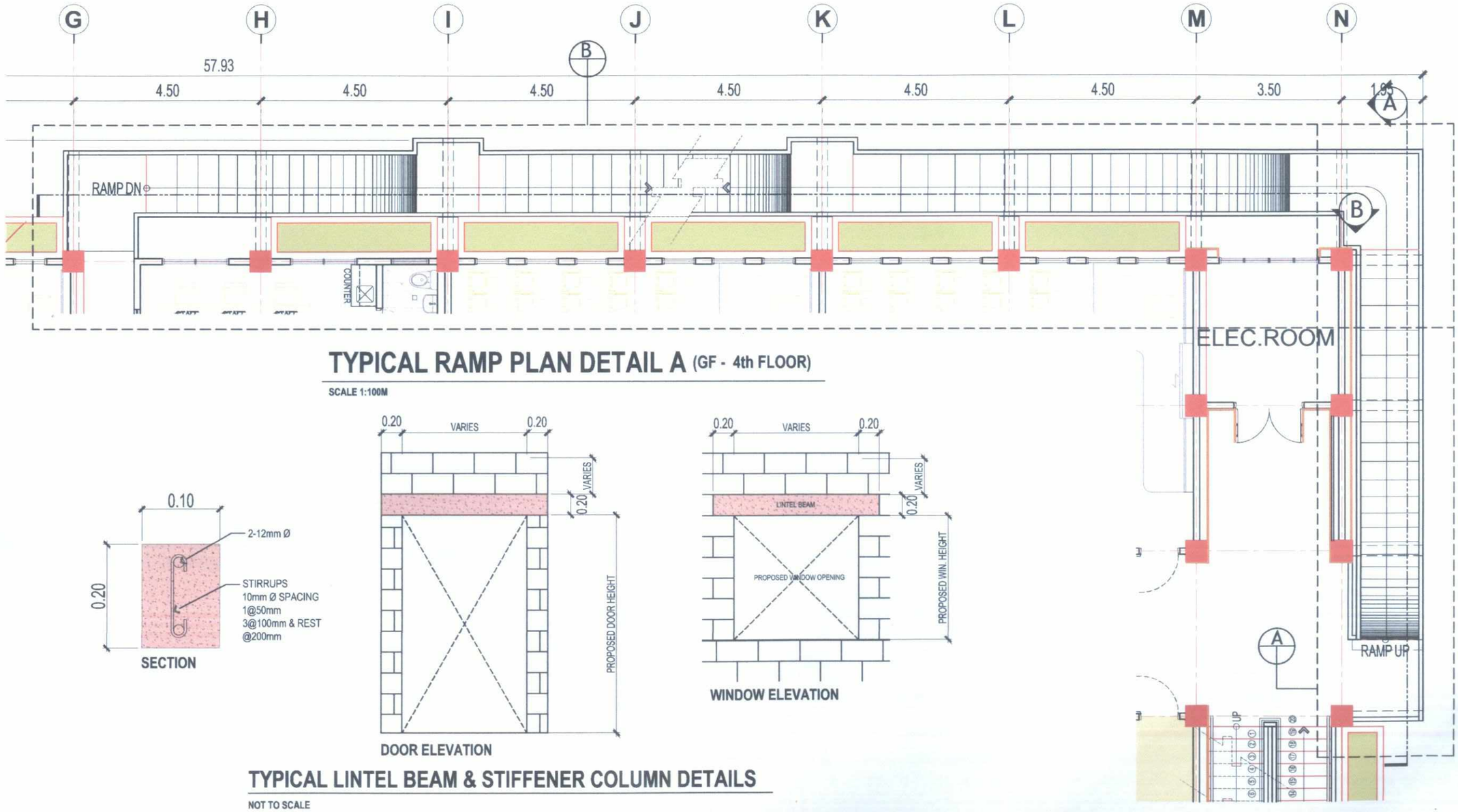

TYPICAL RAMP PLAN DETAIL A (GF - 4th FLOOR)

SCALE 1:100M

SECTION

DOOR ELEVATION

WINDOW ELEVATION

TYPICAL LINTEL BEAM & STIFFENER COLUMN DETAILS

NOT TO SCALE

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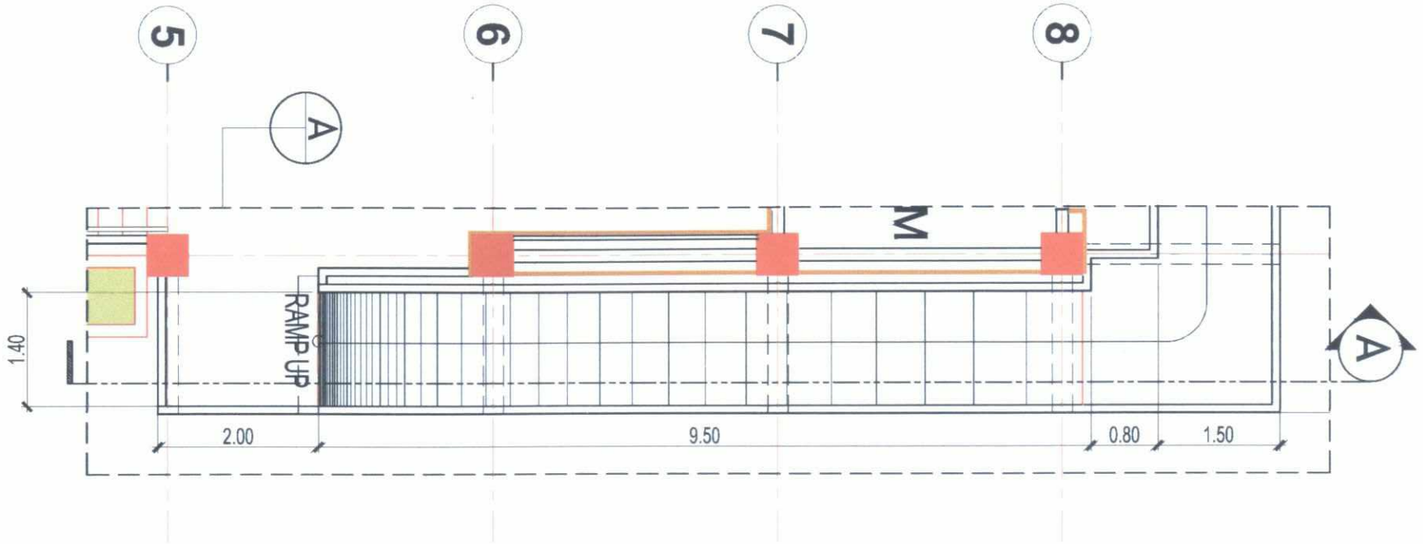
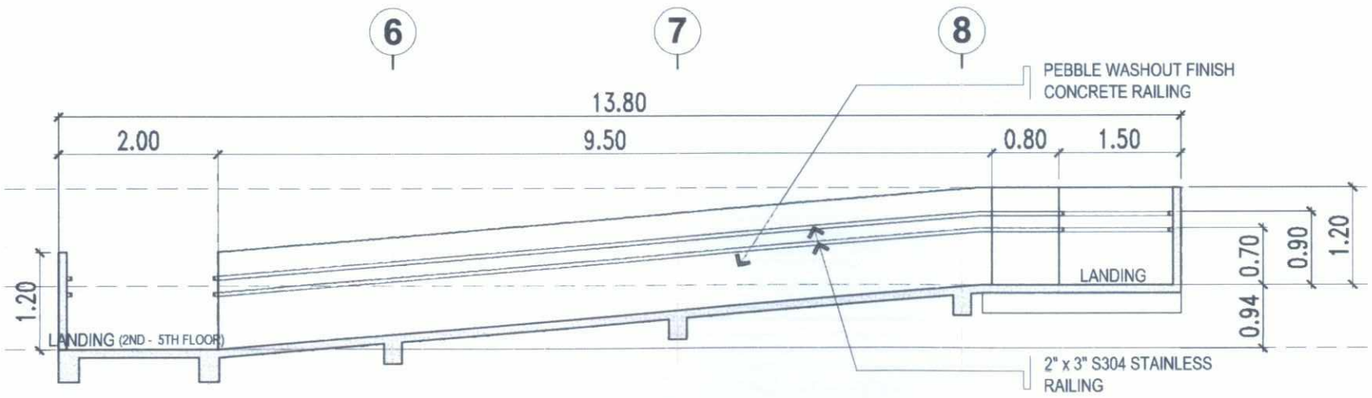


TYPICAL RAMP PLAN DETAIL A (GF - 4th FLOOR)

SCALE 1:80M



TYPICAL SECTION DETAIL A (GF - 4th FLOOR)

SCALE 1:75M

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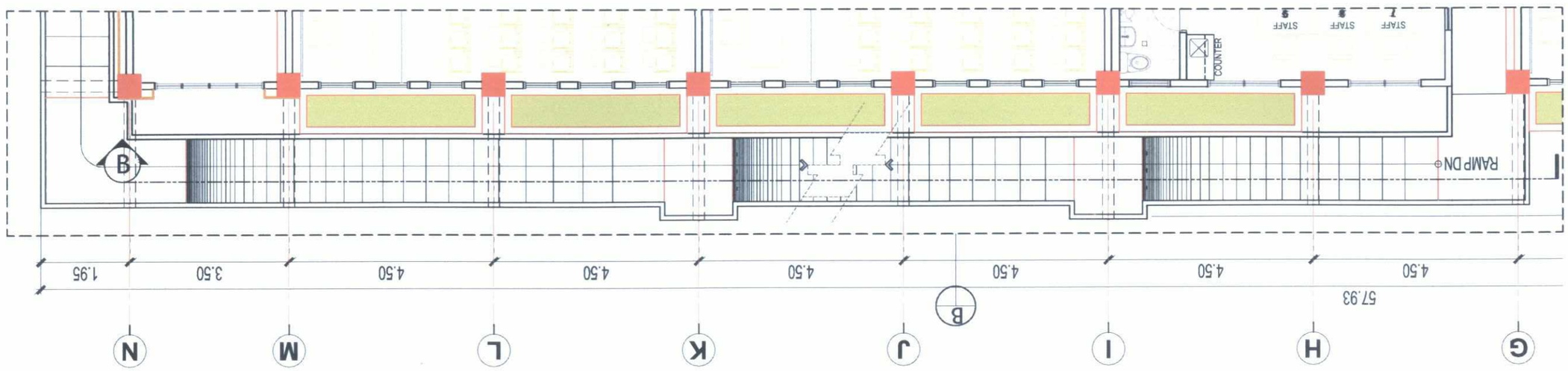
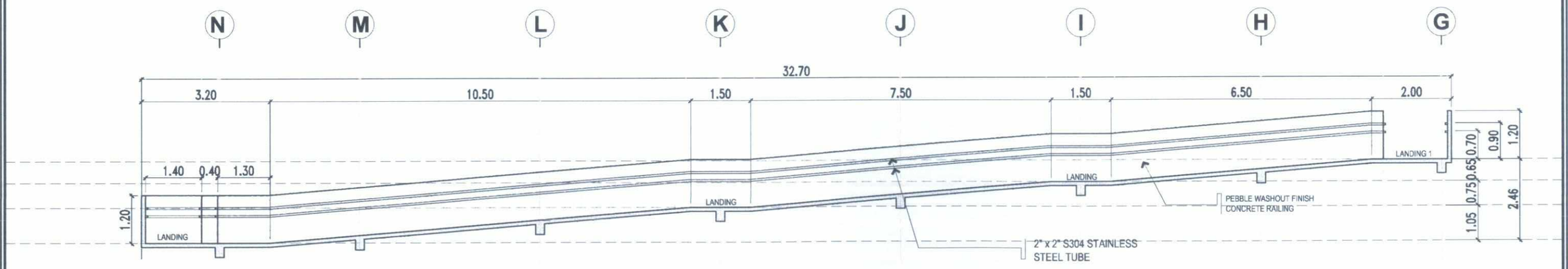


TYPICAL RAMP PLAN DETAIL B (2nd - 5th FLOOR)

SCALE 1:100M



TYPICAL SECTION DETAIL B (2nd - 5th FLOOR)

SCALE 1:100M

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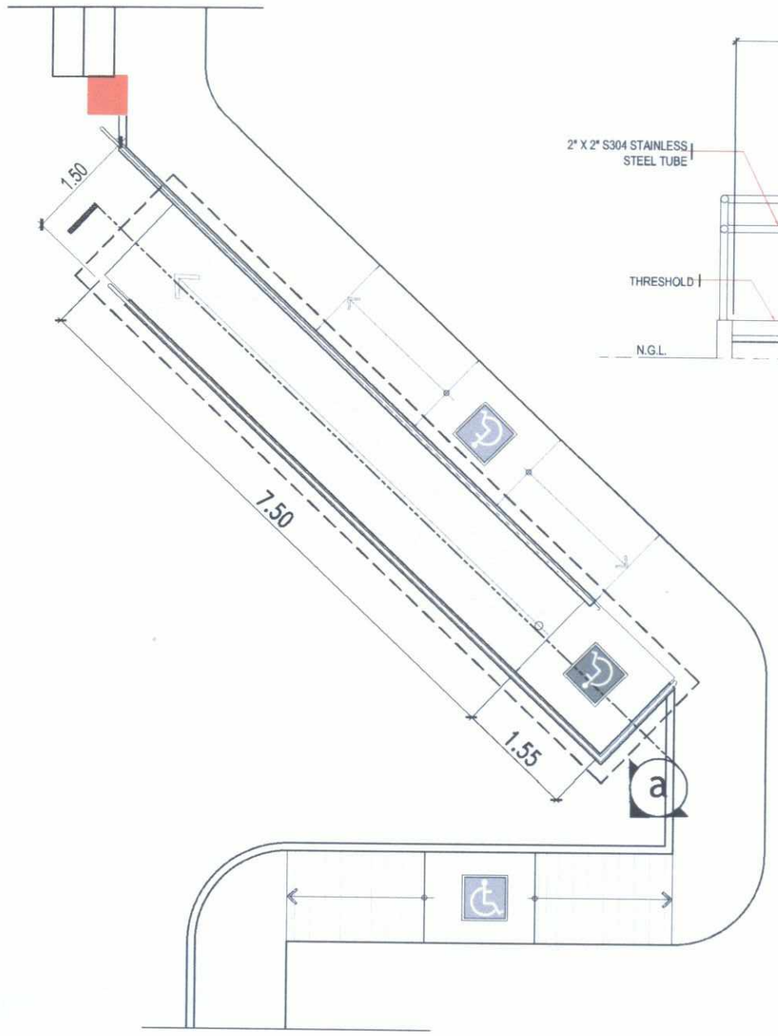
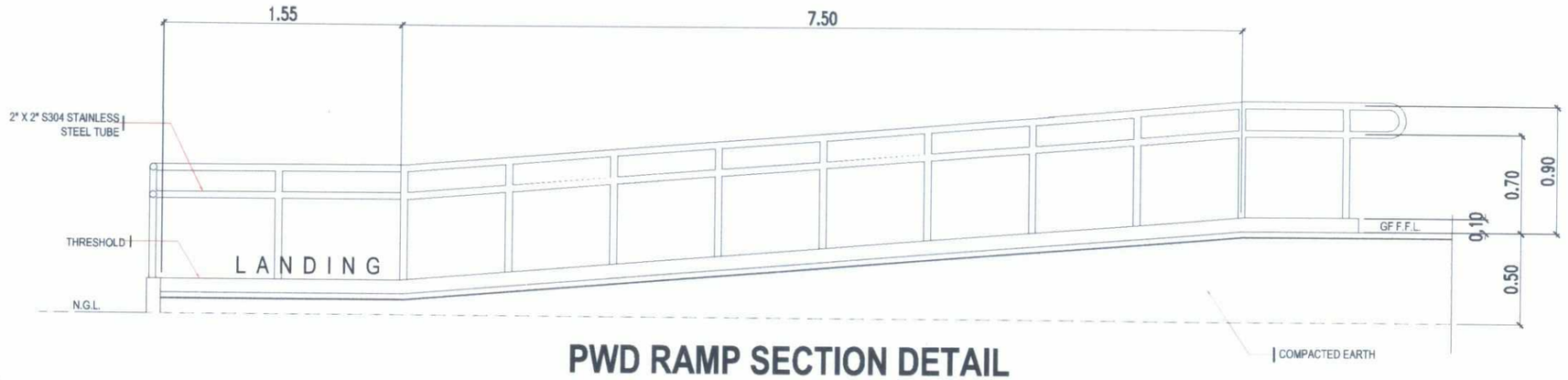


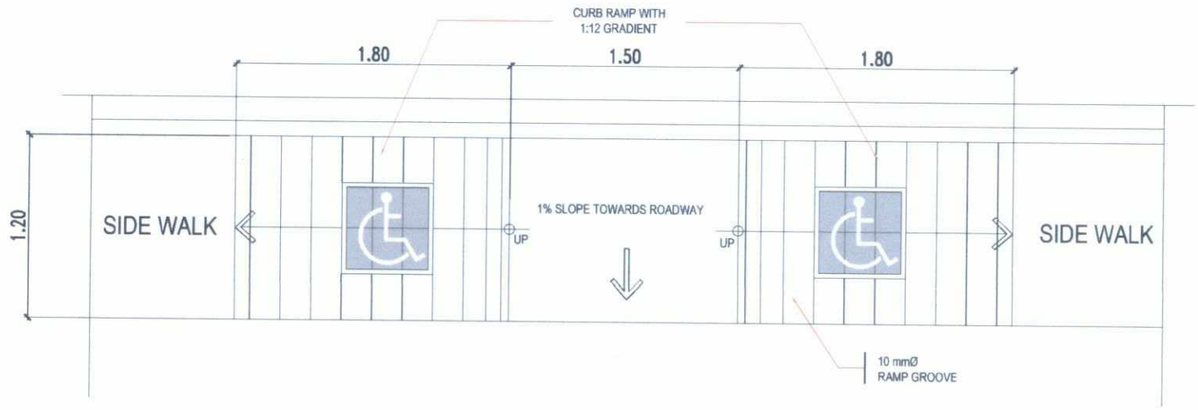
KEY PLAN OF RAMP

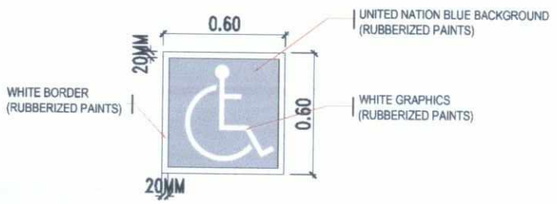
SCALE 1:80M



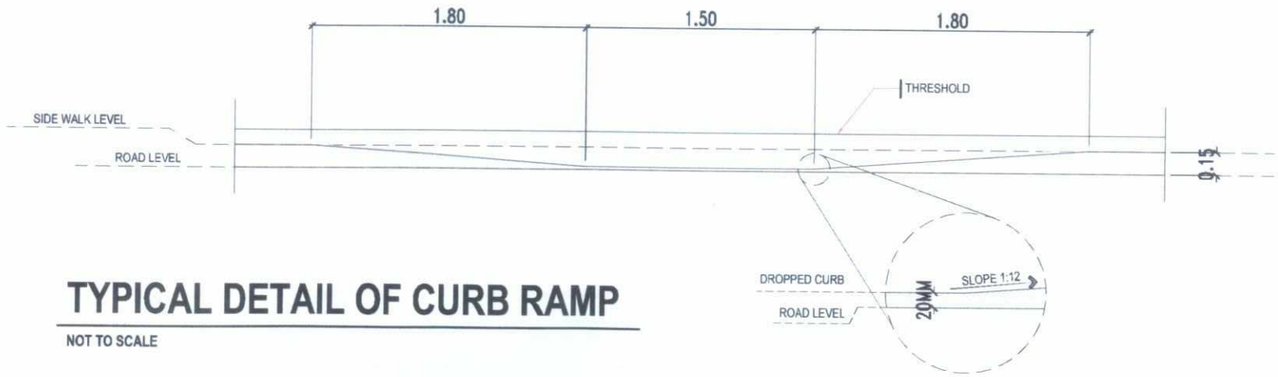
PWD RAMP SECTION DETAIL

NOT TO SCALE





PWD SIGNAGE LOGO DETAIL



TYPICAL DETAIL OF CURB RAMP

NOT TO SCALE

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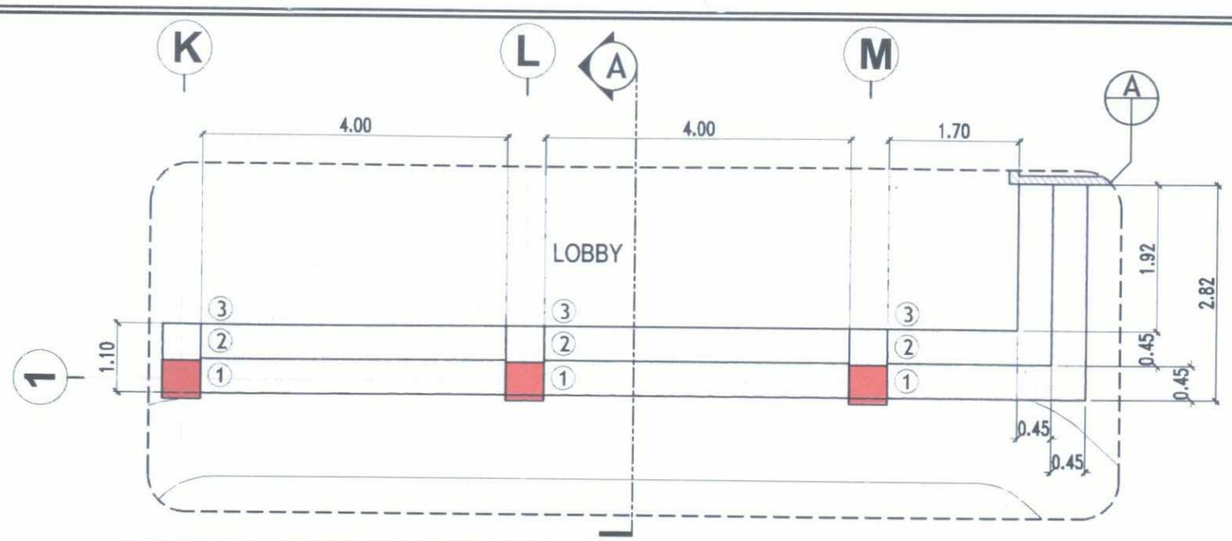
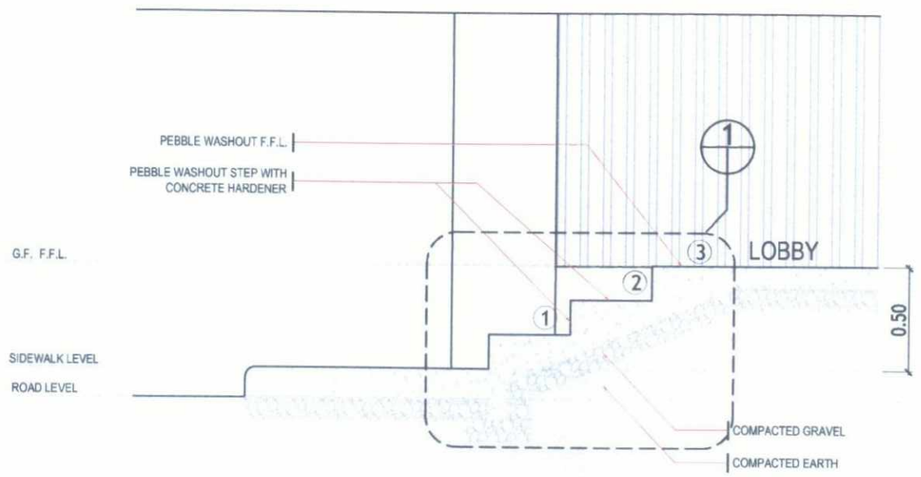


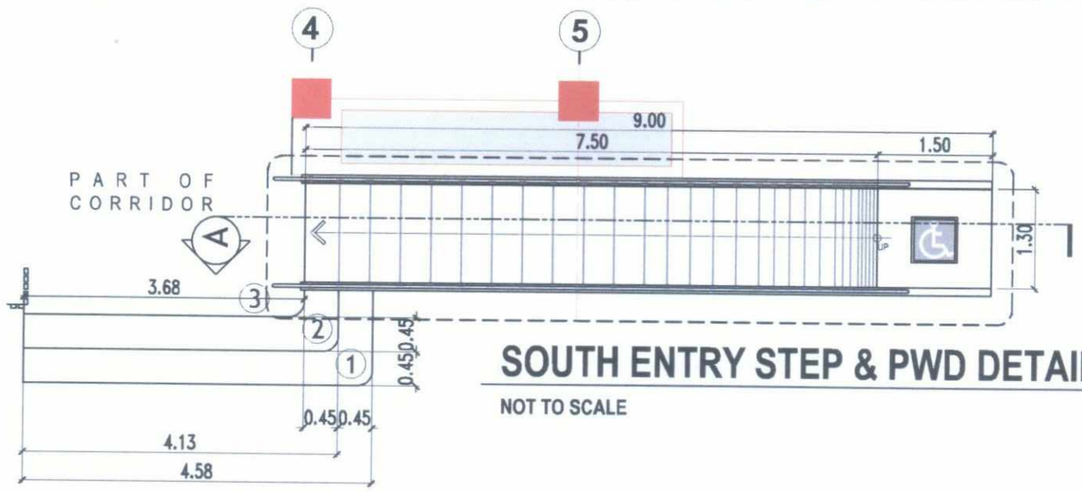
TYPICAL ENTRY STEP DETAIL

SCALE 1:80M



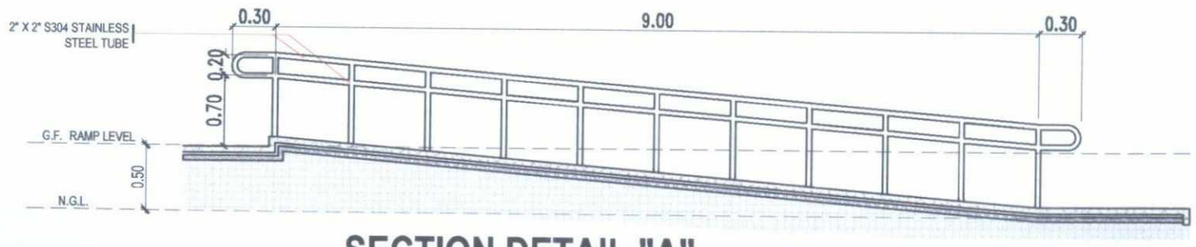
SECTION DETAIL "A"

SCALE 1:30M



SOUTH ENTRY STEP & PWD DETAIL

NOT TO SCALE



SECTION DETAIL "A"

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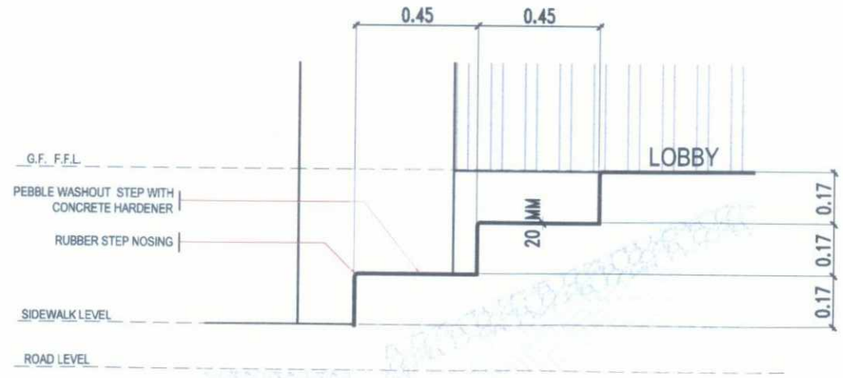

STEP DETAIL "1"

SCALE 1:20M

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STRUCTURAL - GENERAL NOTES

A. GENERAL

A.1 THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. NONETHELESS, SPECIFIC NOTES AND DETAILS SHALL PRECEDE OVER GENERAL NOTES AND TYPICAL DETAILS.

A.2 THE STRUCTURAL DRAWINGS SHALL BE UTILIZED IN CONJUNCTION WITH OTHER DESIGN DRAWINGS (ARCHITECTURAL, ELECTRICAL, PLUMBING, MECHANICAL, ETC.). IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE REQUIREMENTS OF THE DRAWINGS INTO THEIR SHOP DRAWINGS AND CONSTRUCTION.

A.3 CONTRACTOR SHALL STUDY THE DRAWINGS AND SPECIFICATIONS, VERIFY ALL DIMENSIONS, AND INSPECT THE FIELD CONDITIONS, REPORTING ANY DISCREPANCIES TO THE ARCHITEC/ENGINEER PRIOR TO PROCEEDING WITH ANY PHASE OF THE WORK.

A.4 THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.

A.5 THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES AND NOTIFY ANY CONFLICTS TO THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF EXCAVATION.

A.6 DEMOLITION OF EXISTING STRUCTURES IF ANY SHALL NOT BE COMMENCED UNTIL PROTECTIVE MEASURES ARE SET IN PLACE; PLANS, METHODS, AND SCHEDULES OF DEMOLITION SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER.

A.7 THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING FOR THE STRUCTURE.

A.8 THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, ELECTRICAL, PLUMBING AND MECHANICAL DRAWINGS FOR REQUIRED OPENINGS. MOREOVER, SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS AND LOCATION OF DEPRESSED FLOOR AREAS.

A.9 DO NOT SCALE ANY DIMENSION FROM DRAWINGS. THE CONTRACTOR SHALL REQUEST FROM THE ARCHITECT/ENGINEER THE NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS.

A.10 SHOP DRAWINGS OF STRUCTURAL ITEMS FOR STEEL AND CONCRETE MEMBERS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO THE FABRICATION AND CONSTRUCTION.

B. REFERENCES

B.1 ALL CONCRETE WORKS SHALL BE DONE IN ACCORDANCE WITH:

- THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)
- DETAILS AND DETAILING OF CONCRETE REINFORCEMENT (ACI 315-99)
- JOINTS IN CONCRETE CONSTRUCTION (ACI 224.3R-95)

B.2 ALL STRUCTURAL STEEL WORKS SHALL DONE IN ACCORDANCE WITH:

- SPECIFICATION FOR STRUCTURAL STEEL BUILDING (ANSI/AISC 360-16)
- STEEL CONSTRUCTION MANUAL, 14TH EDITION

C. CONCRETE

C.1 UNLESS OTHERWISE INDICATED IN PLANS OR NOTED IN THE STRUCTURAL SPECIFICATIONS, THE MINIMUM 28th DAYS COMPRESSIVE CYLINDER STRENGTH OF CONCRETE WITH CORRESPONDING MAXIMUM AGGREGATE SIZE AND SLUMP SHALL BE AS FOLLOWS:

ELEMENT	28th DAY STRENGTH	MAX. AGGREGATE SIZE	SLUMP
FOUNDATION & WALLS	4000 PSI	3/4 in.	4 in.
COLUMNS & PEDESTALS	4000 PSI	3/4 in.	4 in.
BEAMS & GIRDERS	4000 PSI	3/4 in.	4 in.
SUSPENDED SLABS	4000 PSI	3/4 in.	4 in.
SLAB ON GRADE	3000 PSI	1 in.	4 in.
NON-STRUCTURAL ELEMENTS	2500 PSI	3/4 in.	4 in.

C.2 CONCRETE-MIX DESIGNS ALONG WITH TEST DATA SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO CONCRETE POURING.

C.3 PRIOR TO PLACING OF CONCRETE, ALL REINFORCING STEEL BARS, ANCHOR BOLTS, DOWELS, EMBEDDED STRUCTURAL STEELS, PLATES, OR OTHER INSERTS, SHALL BE SECURED IN POSITION AND APPROVED BY THE ENGINEER.

C.4 CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION, REHANDLING OR FLOWING. PLACING SHALL BE DONE PROPERLY WITH BUGGIES, BUCKETS OR WHEEL-BORROWS.

C.5 NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED BY THE ENGINEER.

C.6 ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS BY KEEPING THE CONCRETE ELEMENT MOIST FOR AT LEAST 7 DAYS OR APPLYING LIQUID CURING COMPOUND.

C.7 CONCRETE CYLINDERS SHALL BE FABRICATED PER EACH 40 CU.M. OR FRACTION THEREOF MIXED EACH DAY FOR EACH CLASS CONCRETE PLACED FOR EACH STRUCTURE.

C.8 GROUT UNDER BASE PLATES SHALL BE APPROVED NON-SHRINK WITH STRENGTH AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED.

D. REINFORCING BARS

D.1 REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM 615 AS FOLLOWS:

DIAMETER	GRADE
10mmØ	GRADE 40 (276 MPa)
12mmØ & ABOVE	GRADE 60 (414 MPa)

D.2 USE GAUGE #16 OR HEAVIER FOR TIE WIRE.

D.3 NO BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE FIELD BENT, EXCEPT AS SHOWN ON PLANS OR PERMITTED BY THE ENGINEER.

D.4 BARS SHALL NOT BE WELDED UNLESS AUTHORIZED BY THE ENGINEER.

D.5 ALL REINFORCING BARS SHALL BE CLEANED THOROUGHLY OF ALL LOOSE RUST, SOIL OR OTHER MATERIAL PRIOR TO CONCRETE POURING.

D.6 MAINTAIN MINIMUM CONCRETE COVER TO TRAVERSE BARS AS FOLLOWS:

ELEMENT	CONCRETE COVER
BELOW GRADE - FOUNDATIONS & WALLS	75mm
BELOW GRADE - COLUMNS, BEAMS, GIRDERS & PEDESTALS	75mm
ABOVE GRADE - COLUMNS, BEAMS, GIRDERS & PEDESTALS	50mm
ABOVE GRADE - SUSPENDED SLABS AND WALLS	20mm
SLAB ON GRADE	40mm

D.7 ALL LAP SPLICES OF REBARS SHALL CONFORM TO CLASS B TENSION LAP SPLICE AS SHOWN ON THE LAP SPLICE SCHEDULE, UNLESS NOTED OTHERWISE.

D.8 ALL HOOK ENDS SHOWN ON THE DRAWINGS SHALL BE STANDARD HOOKS. ALL STIRRUPS/TIES SHALL HAVE 135° SEISMIC HOOKS, UNLESS NOTED OTHERWISE. CROSS TIES SHALL HAVE STANDARD 90° HOOK ON ONE END AND 135° SEISMIC HOOK ON THE OTHER END.

D.9 CONSECUTIVE CROSS TIES WITH 90° AND 135° HOOK ENDS SHALL BE ALTERNATED.

E. FORMS AND SHORES

E.1 FORMS AND SHORES SHALL BE DESIGNED TO CARRY THE LOADS COMING ONTO OR AGAINST THEM WITHOUT EXCESSIVE DEFLECTION.

E.2 STRIPPING OF FORMS AND SHORES SHALL BE AS FOLLOWS:

FOUNDATION	1 DAY
WALLS & COLUMNS	2 DAYS
BEAMS	14 DAYS
SUSPENDED SLABS EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	14 DAYS

F. MASONRY

F.1 ALL MASONRY UNITS SHALL BE APPROVED QUALITY, SOUND, FREE FROM CRACKS AND OTHER IMPERFECTIONS.

F.2 NON-LOAD BEARING CONCRETE HOLLOW BLOCKS SHALL BE USED WITH A MINIMUM COMPRESSIVE STRENGTH OF 500 PSI.

F.3 METHOD OF SAMPLING FOR QUALITY TEST SHALL BE ONE (1) QUALITY TEST FOR EVERY 10,000 UNITS OR FRACTION THEREOF, WITH THREE (3) SPECIMENS FOR COMPRESSION TEST.

F.4 CHB WALLS SHALL BE REINFORCED AS FOLLOWS:

THICKNESS	HORIZONTAL REINFORCEMENT	VERTICAL REINFORCEMENT
100mm	10mmØ @ 600mm O.C.	10mmØ @ 600mm O.C.
150mm	10mmØ @ 400mm O.C.	10mmØ @ 400mm O.C.

F.5 ALL MASONRY WORKS SHALL BE LAID TRUE TO LINE, LEVEL, PLUMB AND NEAT IN ACCORDANCE WITH THE PLANS. DAMAGED UNITS SHALL NOT BE USED. UNITS SHALL BE CUT ACCURATELY TO FIT ALL PLUMBING DUCTS, AND OPENING FOR ELECTRICAL WORKS; ALL HOLES SHALL BE NEATLY PATCHED.

F.6 NO CONSTRUCTION SUPPORT SHALL BE ATTACHED TO THE CHB WALL EXCEPT WHERE SPECIFICALLY PERMITTED BY THE ENGINEER.

F.7 UNITS SHALL BE PLACED WHILE THE MORTAR IS SOFT AND PLASTIC, AND SHALL BE USED WITHIN 2.5 HOURS OF INITIAL MIXING. MORTAR THAT HAS STIFFENED SHOULD NOT BE USED. ANY UNIT DISTURBED TO THE EXTENT THAT THE INITIAL BOND IS BROKEN AFTER INITIAL POSITIONING SHALL BE REMOVED AND RE-LAID IN FRESH MORTAR.

F.8 MORTAR FOR CELLS OF CONCRETE HOLLOW BLOCKS SHALL CONSIST OF ONE (1) PART CEMENT TO THREE (3) PARTS SAND BY VOLUME WITH SUFFICIENT WATER. IT SHALL BE A WORKABLE CEMENT-SAND MIXTURE ATTAINING A 28th DAY COMPRESSIVE STRENGTH OF 1500 PSI.

F.9 ALL CELLS OF CHB UNITS SHALL BE FULLY GROUTED.

F.10 WHERE CHB WALLS ADJOIN COLUMNS, BEAMS, AND WALLS, DOWELS WITH THE SAME SIZE AS THE VERTICAL OR HORIZONTAL REINFORCEMENTS SHALL BE PROVIDED.

F.11 MORTAR FOR PLASTERING SHALL BE PROPORTIONED ONE (1) PART CEMENT TO TWO (2) PARTS SAND WITH SUFFICIENT WATER.

G. STRUCTURAL STEEL

G.1 ALL STRUCTURAL STEELS SHALL CONFORM TO ASTM A36 HAVING A MINIMUM YIELD STRENGTH OF 36 KSI, UNLESS NOTED OTHERWISE.

G.2 ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36.

G.3 HIGH STRENGTH BOLTS SHALL BE USED SHALL CONFORM TO ASTM A325 OR ASTM A490.

G.4 ALL WASHERS SHALL CONFORM TO ASTM F436.

G.5 ALL NUTS SHALL SHALL CONFORM TO ASTM A563.

G.6 USE E70XX OR E71XX, 70 KSI STRENGTH ELECTRODES, UNLESS NOTED OTHERWISE. TEMPORARY WELDS AND ASSEMBLY ATTACHMENTS SHALL BE KEPT TO A MINIMUM

G.7 WELDING SHALL BE DONE IN ACCORDANCE WITH APPROPRIATE WELD PROCEDURE SPECIFICATIONS (WPS).

G.8 WELDING SHALL CONFORM TO BE DONE WITH AMERICAN WELDING SOCIETY (AWS) STANDARDS.

G.9 FABRICATORS SHALL BE QUALIFIED WELDERS WITH AUTHENTIC CERTIFICATES.

G.10 SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER AS TO LOCATION AND TYPE OF SPLICE TO BE MEMBER. ANY MEMBER HAVING A SPLICE NOT SHOWN AND DETAILED ON SHOP DRAWINGS WILL BE REJECTED.

G.11 THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO THE FABRICATION AND ERECTION.

G.12 STEEL MEMBERS TO BE ENCASE IN CONCRETE SHALL NOT BE PAINTED. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL HAVE AT LEAST TWO COATS OF APPROVED PRIMER PAINT.

G.13 CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SAFETY PROTECTION FOR ERECTION.

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PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE I)	ENGR. ALEXANDER JHON S. TABAQUERO CIVIL ENGINEER, OFDM-MIU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ERWIN P. LACANLALE DEAN, CODED	ATTY. GHEROLD C. BENITEZ VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	S - 1
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TENSION LAP SPLICE LENGTHS

BAR SIZE	fc' = 3,000 PSI				fc' = 4,000 PSI			
	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
10mm	490	740	380	570	430	640	330	490
12mm	590	880	460	680	510	770	400	590
16mm	790	1,200	610	910	680	1,100	530	790
20mm	1,000	1,500	760	1,200	850	1,300	660	980
25mm	1,600	2,400	1,200	1,800	1,400	2,100	1,100	1,600
28mm	1,700	2,700	1,300	2,100	1,500	2,300	1,200	1,800
32mm	1,900	3,000	1,500	2,300	1,700	2,600	1,300	2,000
36mm	2,200	3,400	1,700	2,600	1,900	3,000	1,500	2,300

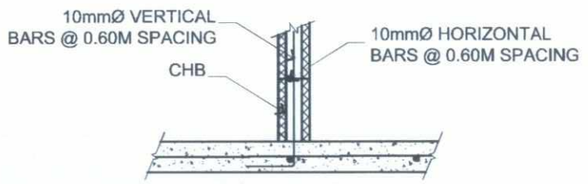
NOTES:

1. TABULATED VALUES ARE CLASS B TENSION LAP SPLICE LENGTHS BASED ON UNCOATED GRADE 40 REINFORCING BARS AND NORMAL-WEIGHT CONCRETE.
2. TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS ARE BASED ON ACI 318-14, SECTIONS 25.4.2.2 AND 25.5.2.1, RESPECTIVELY. TABULATED VALUES FOR BEAMS OR COLUMNS ARE BASED ON TRAVERSE REINFORCEMENT AND CONCRETE COVER MEETING THE MINIMUM CODE REQUIREMENTS. LENGTHS ARE IN MILLIMETERS.
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
4. OTHER BARS ARE THE HORIZONTAL BARS LOCATED WITHIN 12 INCHES DEPTH FROM THE BOTTOM OF SLABS OR FOOTINGS, OR THE VERTICAL BARS OF COLUMN OR WALLS.
5. WHEN CLASS A LAP SPLICES ARE TO BE USED, DIVIDE THE TABULATED VALUES BY 1.3.
6. CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND THE CENTER TO CENTER SPACING OF BARS, ARE DEFINED AS:

FOR BEAMS OR COLUMNS:
CASE 1 - COVER AT LEAST $1.0d_b$ AND CENTER TO CENTER SPACING AT LEAST $2d_b$
CASE 2 - COVER LESS THAN $1.0d_b$ OR CENTER TO CENTER SPACING LESS THAN $2d_b$

FOR FOOTINGS OR WALLS:
CASE 1 - COVER AT LEAST $1.0d_b$ AND CENTER TO CENTER SPACING AT LEAST $3d_b$
CASE 2 - COVER LESS THAN $1.0d_b$ OR CENTER TO CENTER SPACING LESS THAN $3d_b$

FOR SLABS (USE CLASS A LAP SPLICES):
CASE 1 - COVER AT LEAST $1.0d_b$ AND CENTER TO CENTER SPACING AT LEAST $3d_b$
CASE 2 - COVER LESS THAN $1.0d_b$ OR CENTER TO CENTER SPACING LESS THAN $3d_b$



TYPICAL DETAIL OF WALL TO SLAB CONNECTION

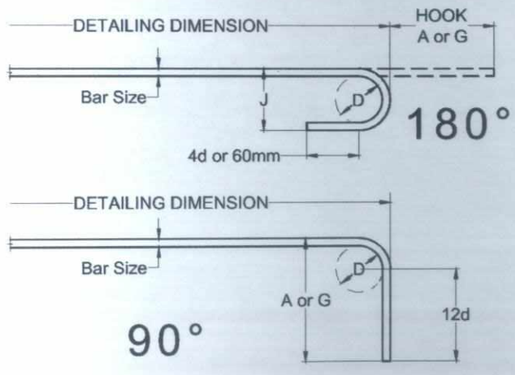
SCALE N.T.S.

RECOMMENDED END HOOKS

ALL GRADES: D = FINISHED BEND DIAMETER

BAR SIZE	D* (mm)	180° HOOK		90° HOOK
		A or G (mm)	J (mm)	A or G (mm)
10mm	60	150	80	150
12mm	80	175	105	200
16mm	100	200	130	250
20mm	135	250	180	375
25mm	155	275	205	425
28mm	240	375	300	475
32mm	275	425	335	550
36mm	305	475	375	625

*FINISHED BEND DIAMETERS INCLUDE "SPRING BACK" EFFECT WHEN BARS STRAIGHTEN OUT SLIGHTLY AFTER BEING BENT AND ARE SLIGHTLY LARGER THAN MINIMUM BEND DIAMETER IN ACI.



DEVELOPMENT LENGTH FOR STANDARD HOOKS IN TENSION

BAR SIZE	fc' = 2,500 PSI	fc' = 3,000 PSI	fc' = 4,000 PSI
10mm	160	150	150
12mm	200	180	160
16mm	260	250	210
20mm	320	300	260
25mm	400	380	320
28mm	450	430	369
32mm	520	480	410
36mm	580	530	460

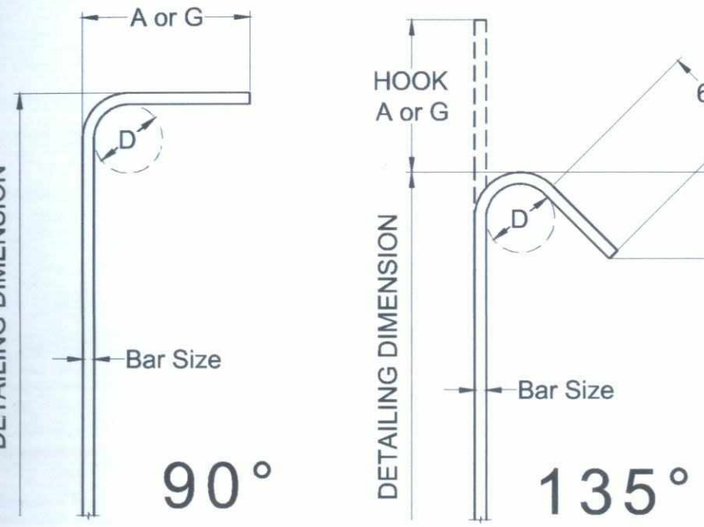
NOTES:
1. TABULATED VALUES ARE BASED ON UNCOATED GRADE 40 REINFORCING BARS AND NORMAL-WEIGHT CONCRETE.
2. DEVELOPMENT LENGTHS FOR STANDARD HOOKS IN TENSION ARE BASED ON ACI 318-14, SECTIONS 25.4.3. LENGTHS ARE IN MILLIMETERS.

STANDARD STIRRUP/TIE HOOKS

ALL GRADES: D = FINISHED BEND DIAMETER

BAR SIZE	D (mm)	135° HOOK		90° HOOK
		A or G (mm)	H* (mm)	A or G (mm)
10mm	40	105	65	105
12mm	50	115	80	115
16mm	65	140	95	155
20mm	120	230	135	355
25mm	155	270	155	410

*H DIMENSION IS APPROXIMATE



SEISMIC STIRRUP/TIE HOOKS

ALL GRADES: D = FINISHED BEND DIAMETER

BAR SIZE	D (mm)	135° SEISMIC HOOK	
		A or G (mm)	H* (mm)
10mm	40	110	80
12mm	50	115	80
16mm	65	140	95
20mm	120	230	135
25mm	155	270	155

*H DIMENSION IS APPROXIMATE

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Romulo Boulevard, Tarlac City, Philippines 2300

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CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE I)	ENGR. ALEXANDER JHON S. TABAQUERO, CIVIL ENGINEER, OFDM-MU	AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	AR. ARLEN M. GUIEB, DIRECTOR, OFDM	DR. ERWIN P. LUCANLALE, DEAN, CUED	ATTY. GHEROLD C. BENITEZ, VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO, PRESIDENT	AS SHOWN	S - 2
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NOTE:

1. PROVIDE LONGITUDINAL BAR (L/3) FOR RAMP BEAMS & PLANT BOXES (L) (SEE SCHEDULE OF BEAMS & PLANT BOX DETAIL)
2. ALL EXPOSED REINFORCEMENT OF MAIN STRUCTURAL MEMBER SHALL BE COATED WITH EPOXY PRIMER (2 COATS)
3. PROVIDE 0.6m LENGTH OF VERTICAL AND HORIZONTAL DOWELS FOR MASONRY & PLANT BOXES
4. PROVIDE SHEAR BARS IN ALL SLAB OPENING FOR PLUMBING, ELECTRICAL, & MECHANICAL PIPE CHASE.

FOUNDATION PLAN

SCALE 1:175M

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PROJECT TITLE: CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE I)	PREPARED BY: ENGR. ALEXANDER JHON S. TABAQUERO, CIVIL ENGINEER, OFDM-MIU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. ERWIN P. MACANLALE, DEAN, COED	RECOMMENDING APPROVAL: ATTY. GHEROLD C. BENITEZ, VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: S - 3
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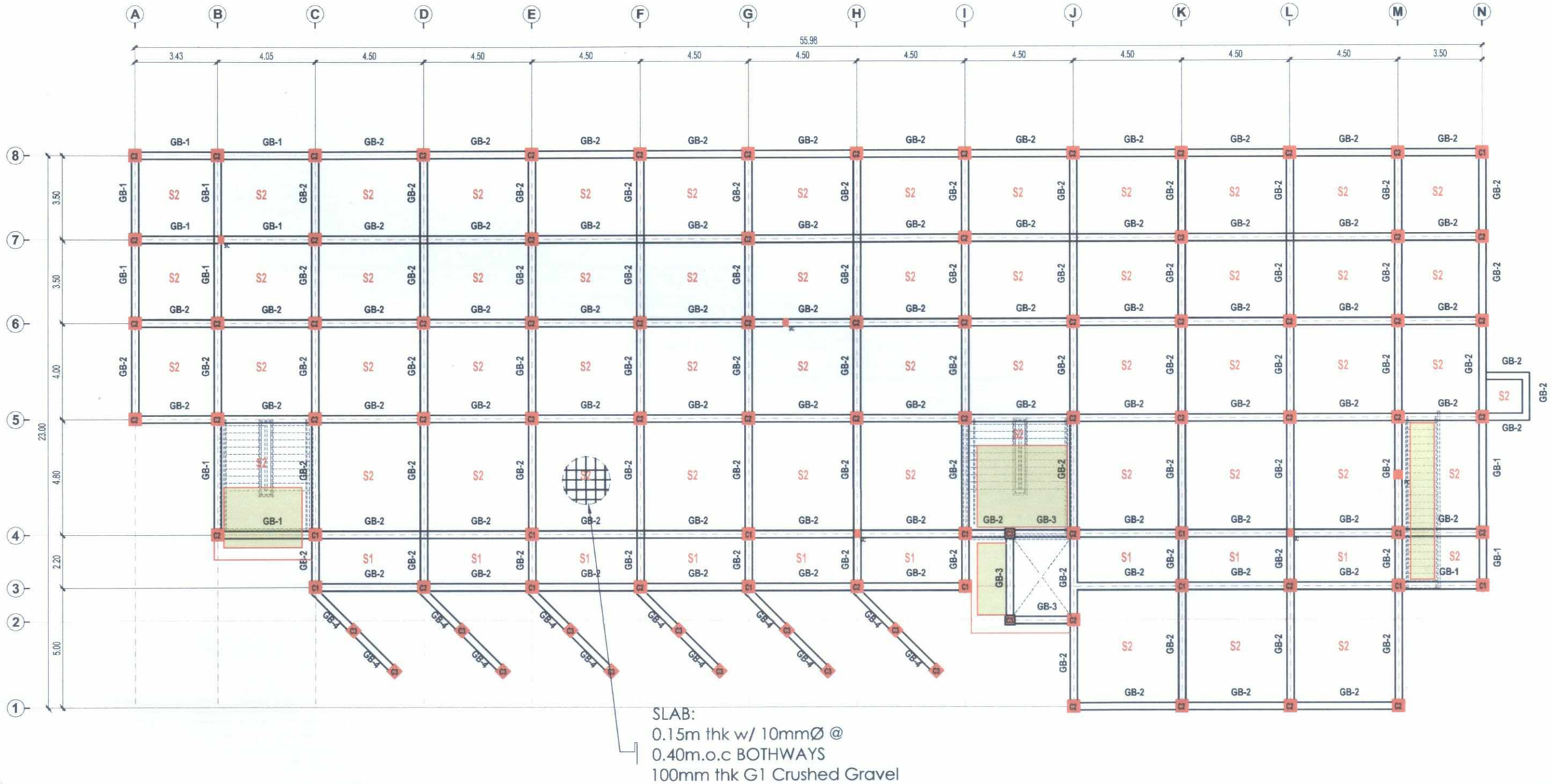

NOTE:

1. PROVIDE LONGITUDINAL BAR (L/3) FOR RAMP BEAMS & PLANT BOXES (L) (SEE SCHEDULE OF BEAMS & PLANT BOX DETAIL)
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GROUND FLOOR FRAMING PLAN

SCALE 1:200M

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CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE I)	ENGR. ALEXANDER JHON S. TABAQUERO CIVIL ENGINEER, OFDM-MIU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ERWIN P. LACANLALE DEAN, CCDED	ATTY. GHERALD C. BENITEZ VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	S - 4
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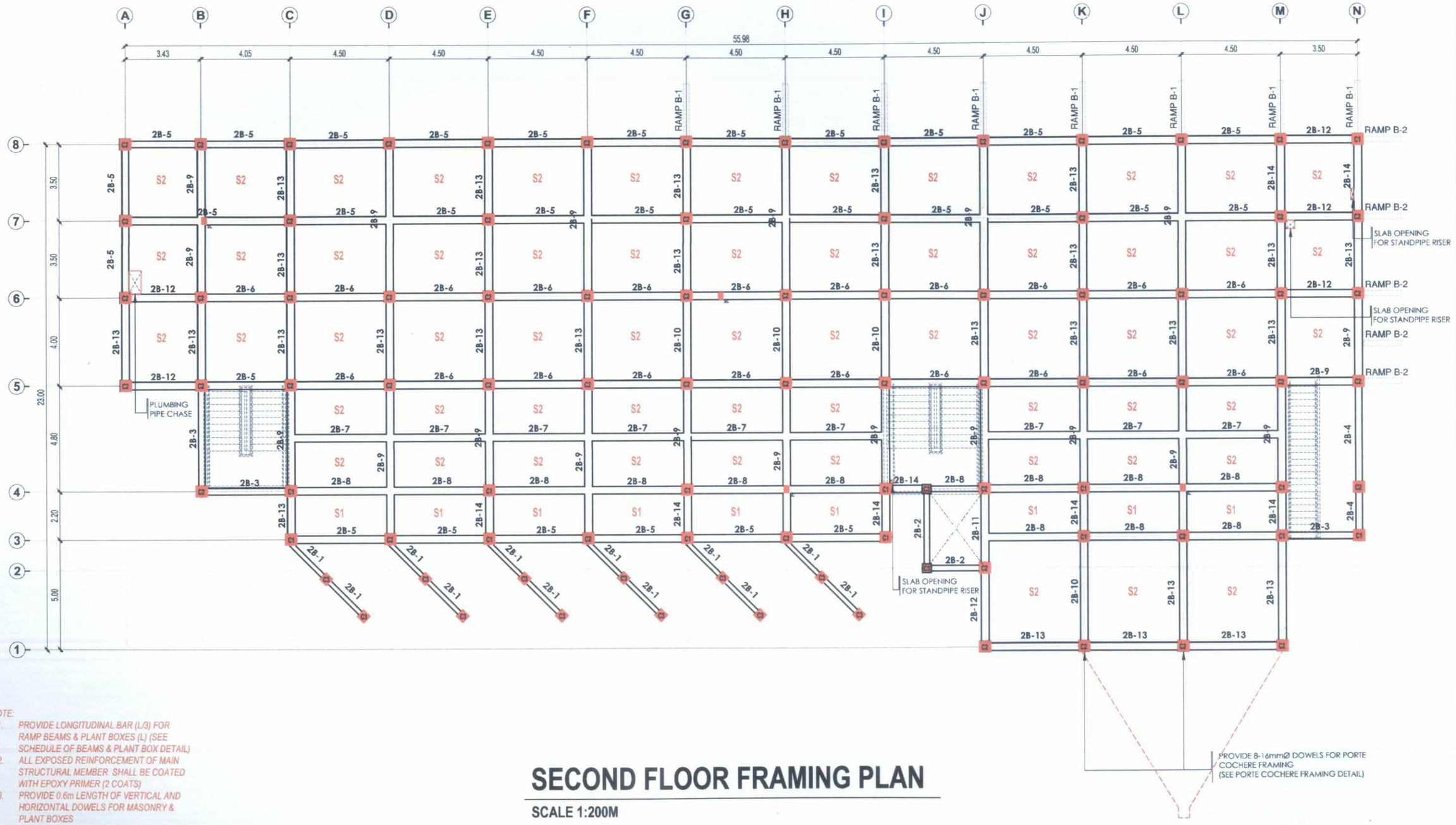

NOTE:

1. PROVIDE LONGITUDINAL BAR (L/3) FOR RAMP BEAMS & PLANT BOXES (L) (SEE SCHEDULE OF BEAMS & PLANT BOX DETAIL)
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SECOND FLOOR FRAMING PLAN

SCALE 1:200M

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PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 24/59

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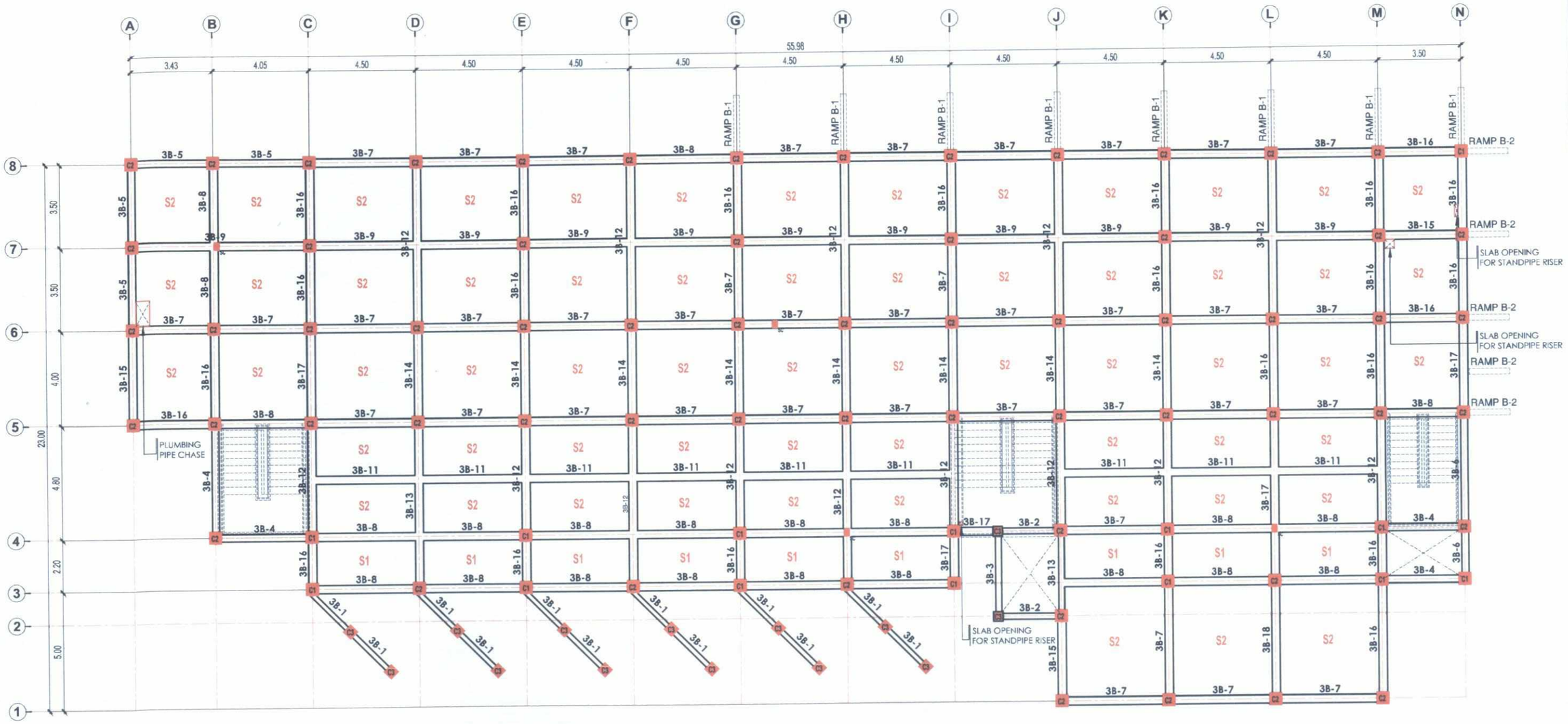

NOTE:

1. PROVIDE LONGITUDINAL BAR (L/3) FOR RAMP BEAMS & PLANT BOXES (L) (SEE SCHEDULE OF BEAMS & PLANT BOX DETAIL)
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4. PROVIDE SHEAR BARS IN ALL SLAB OPENING FOR PLUMBING, ELECTRICAL, & MECHANICAL PIPE CHASE.

THIRD FLOOR FRAMING PLAN

SCALE 1:200M

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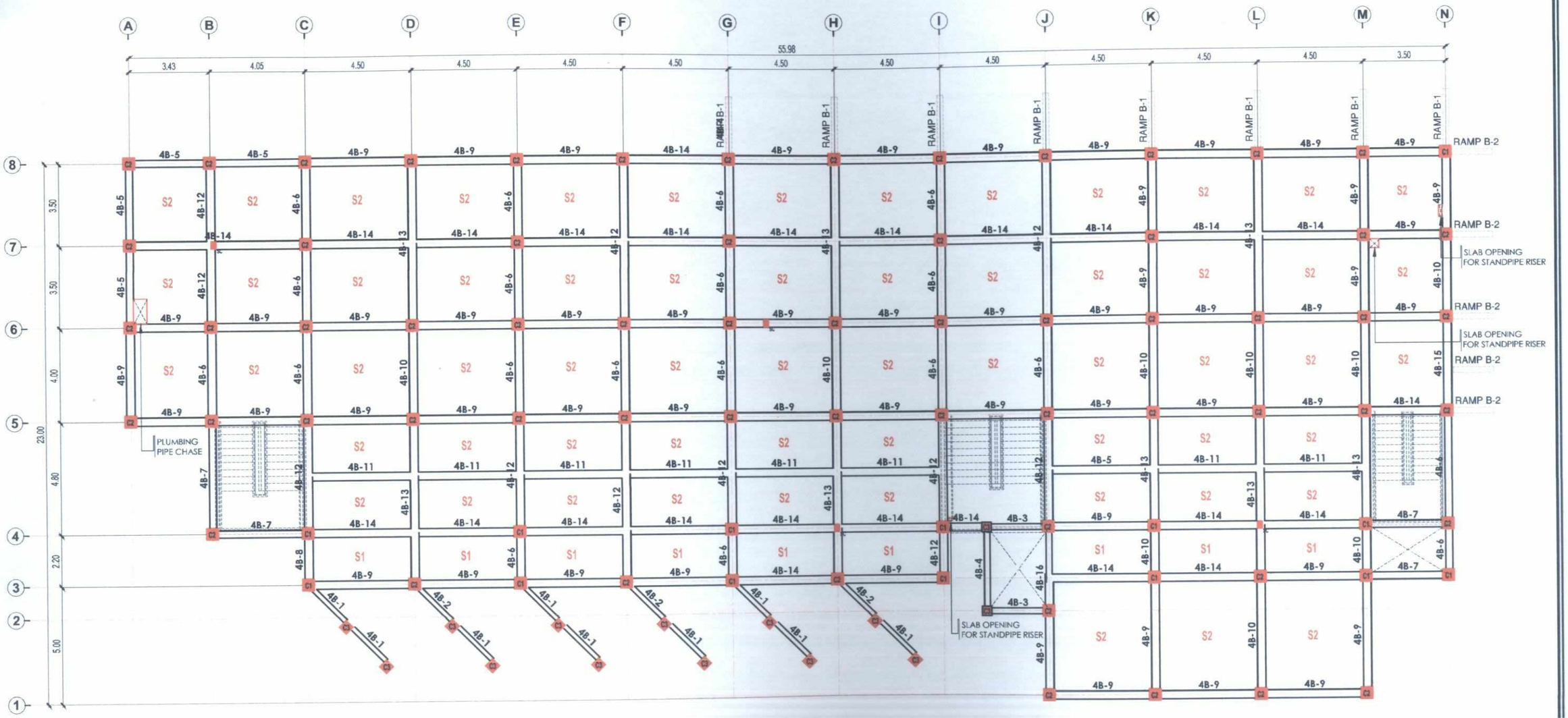

NOTE:

1. PROVIDE LONGITUDINAL BAR (L/3) FOR RAMP BEAMS & PLANT BOXES (L) (SEE SCHEDULE OF BEAMS & PLANT BOX DETAIL)
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FOURTH FLOOR FRAMING PLAN

SCALE 1:200M

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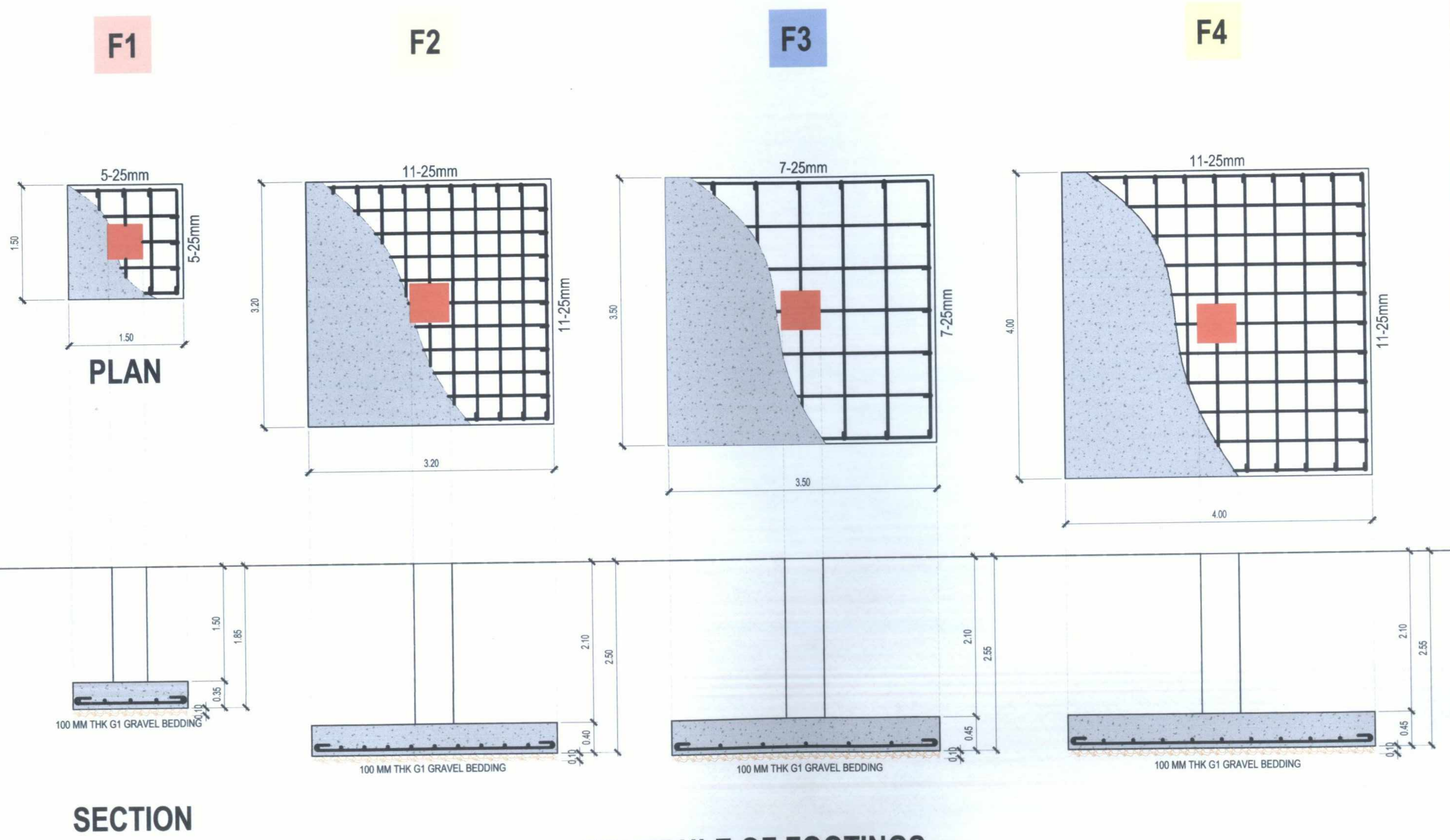

SCHEDULE OF FOOTINGS

SCALE 1:50M

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PROJECT TITLE: CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE I)	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS: AS SHOWN
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	ENGR. ALEXANDER JHON S. TABAQUERO CIVIL ENGINEER, OFDM-MIU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ERWIN P. LACANLALE HEAD, CUED	ATTY. GHERALD C. BENITEZ VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	DATE: SEPTEMBER 2025

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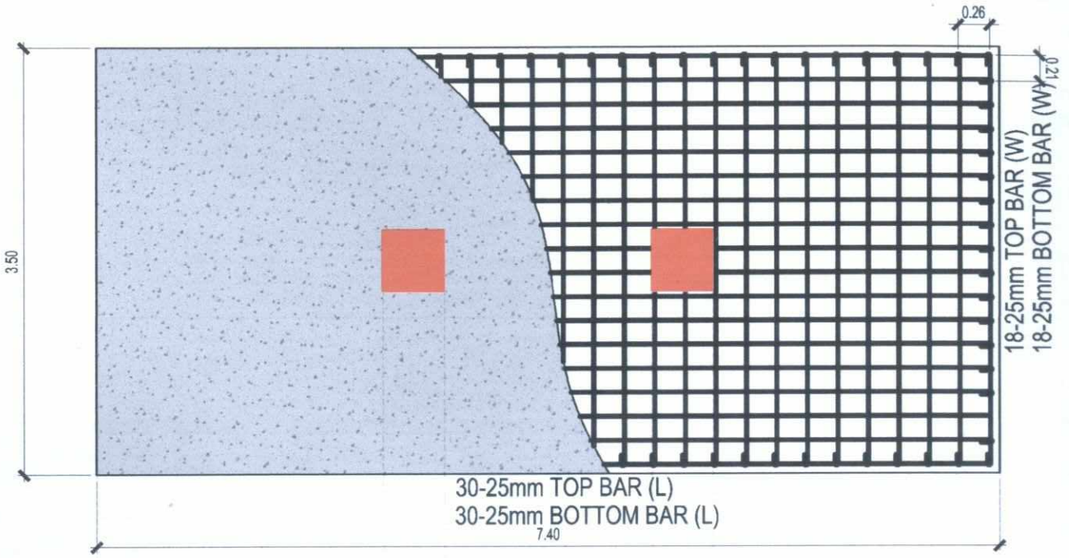
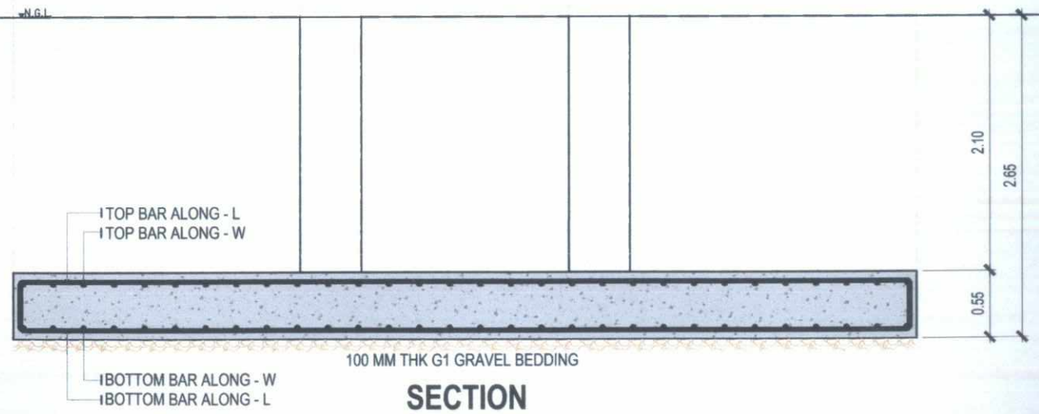
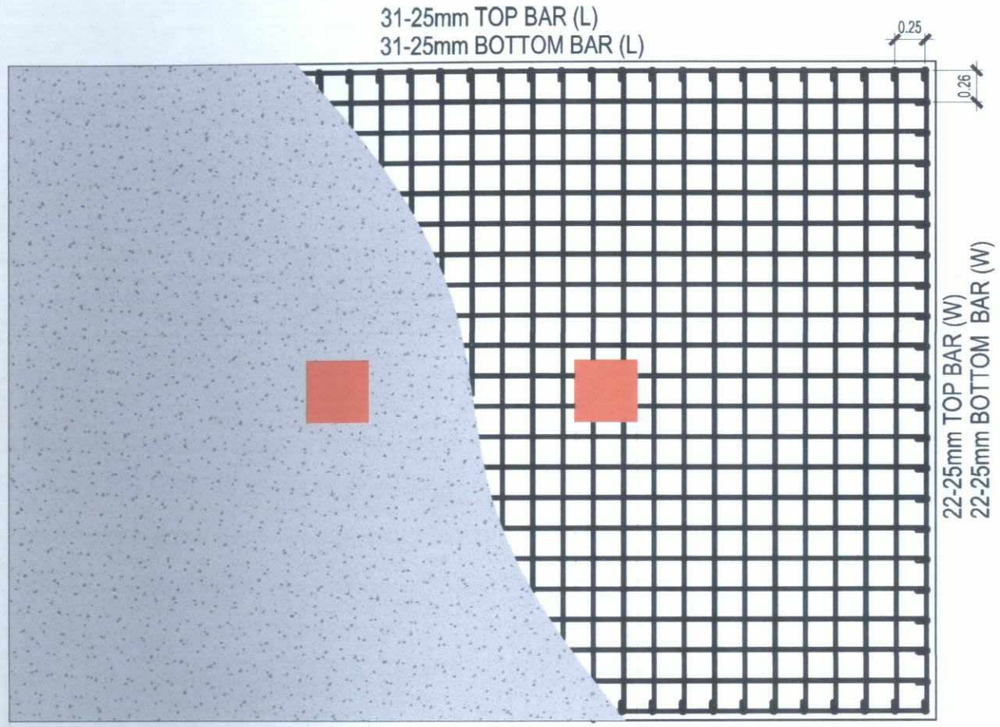


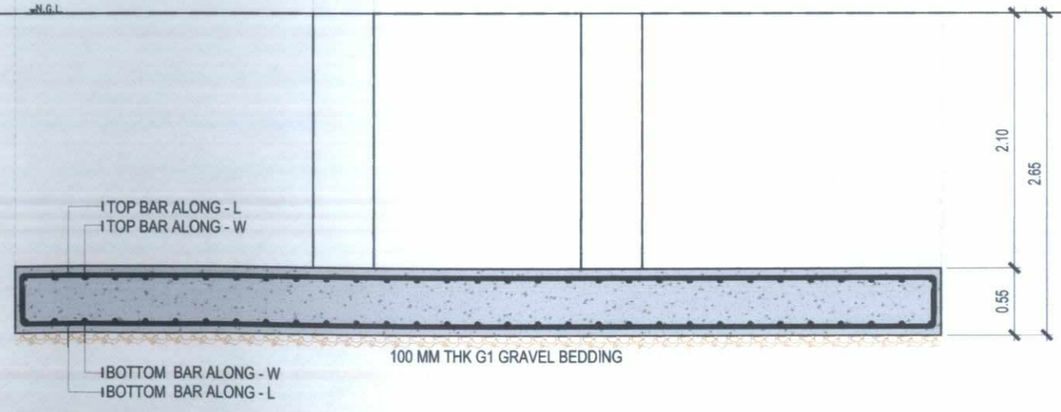
PLAN



SECTION

CF-2





SCHEDULE OF FOOTINGS

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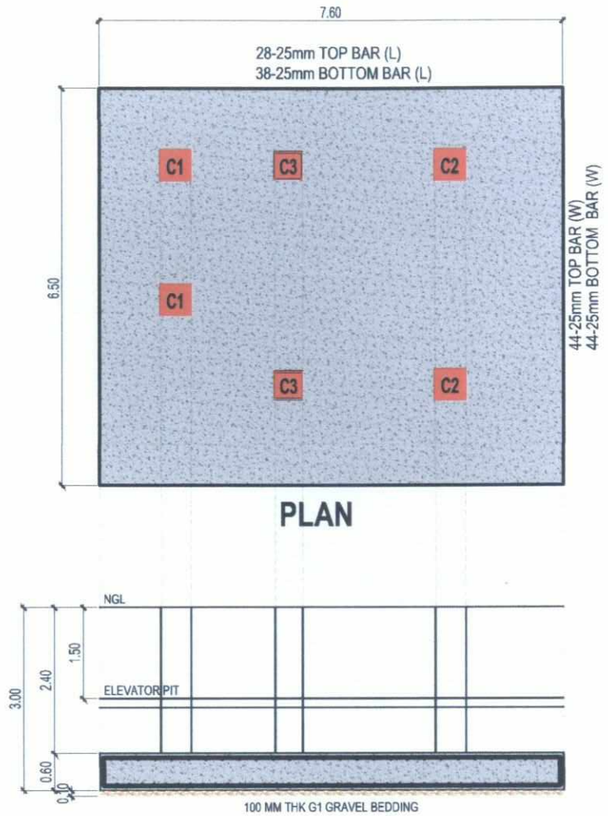
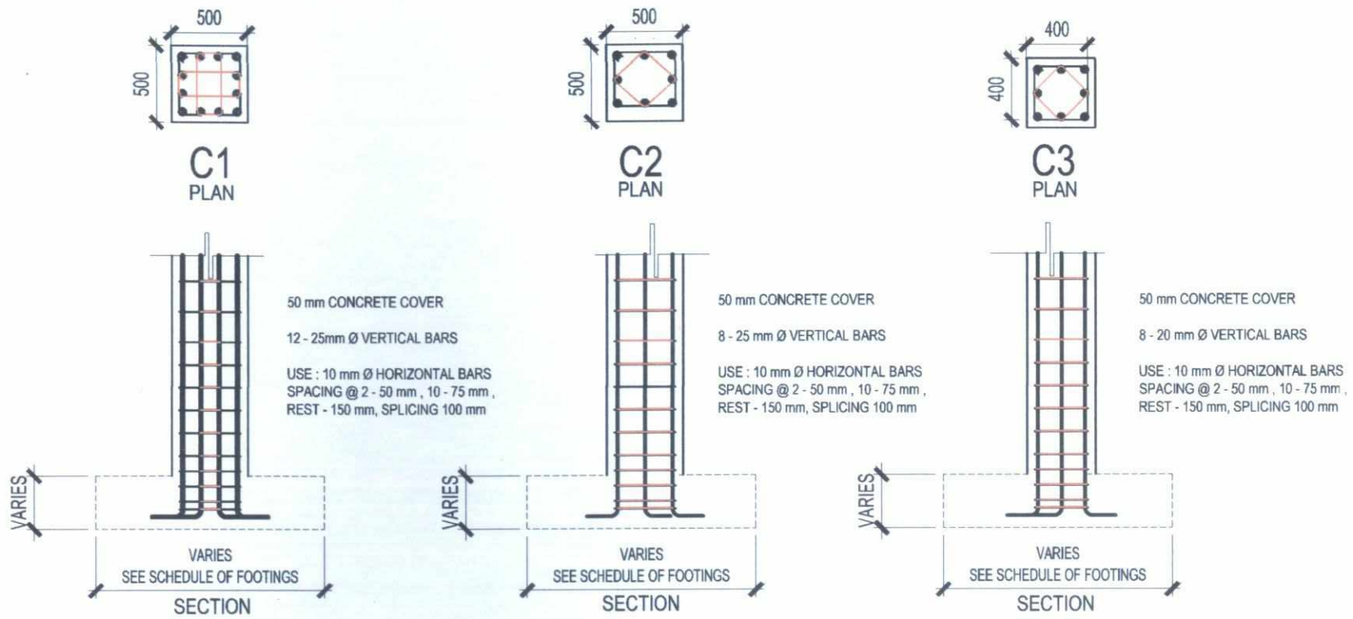
MF-1



PLAN

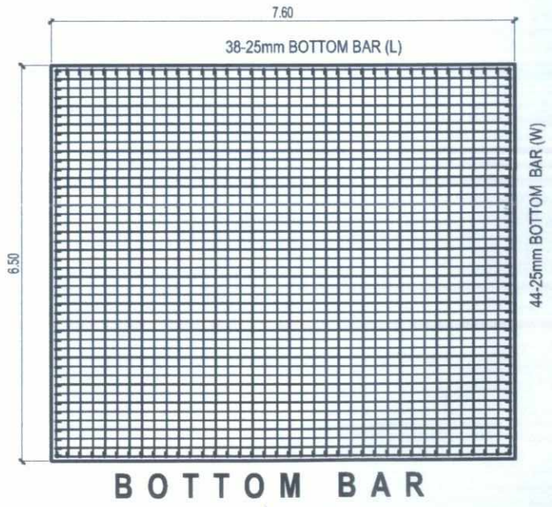
SECTION



TYPICAL COLUMN DETAILS

SCALE 1:40M

TOP BAR



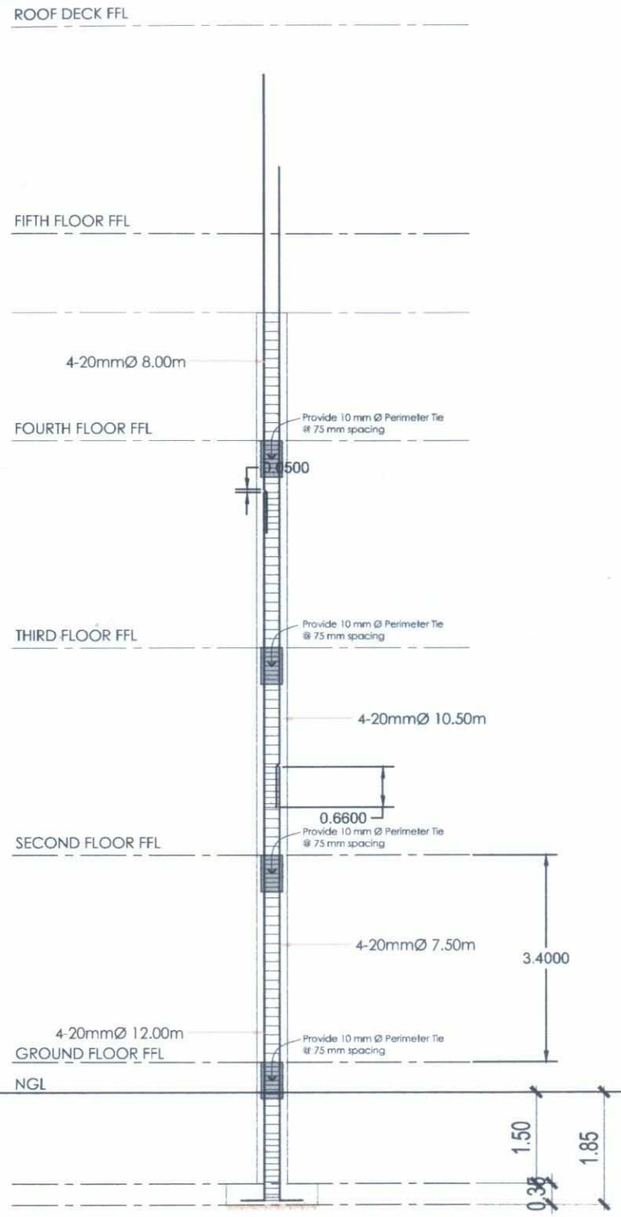
BOTTOM BAR

STIFFENER COLUMN CONNECTION DETAIL

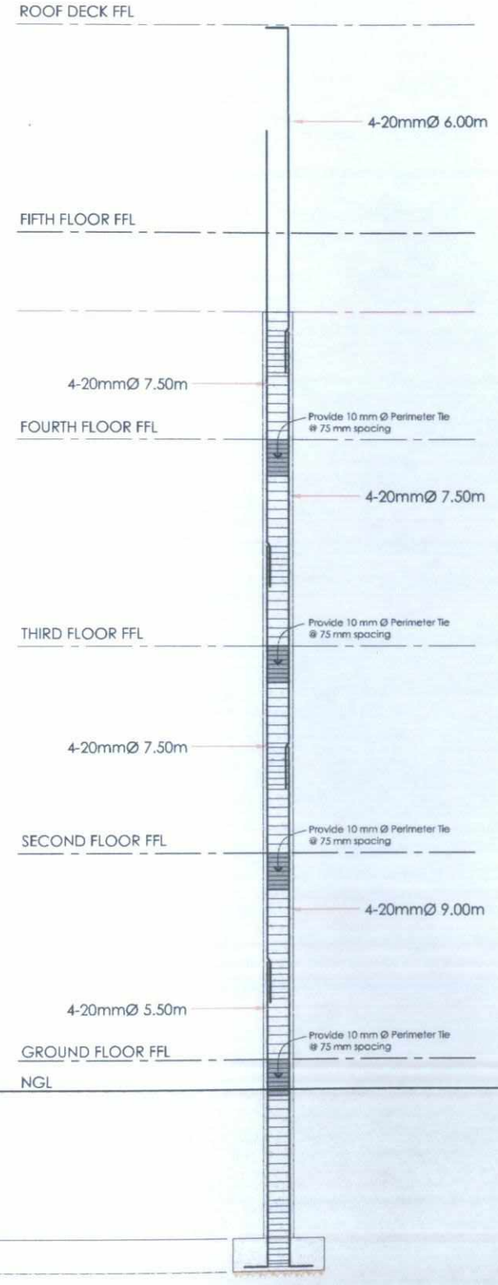
SCALE : 1:15M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE I) PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. ALEXANDER JHON S. TABAQUERO CIVIL ENGINEER, OFDM-MIU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. ERWIN P. CACANLALE DEAN, CODED	RECOMMENDING APPROVAL: ATTY. GHEROLD C. BENITEZ VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: SEPTEMBER 2025	SHEET NO: S - 10 PAGE NO: 29 /59

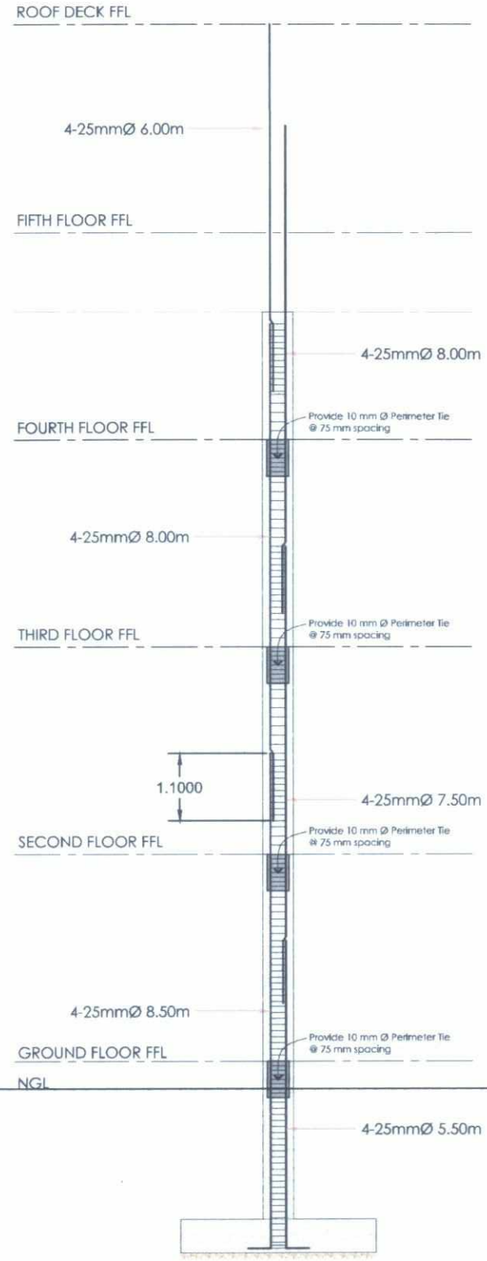
OCT 03 2025



C3-F1



C3-MF1



C2-F2 , F3 , F4 , CF1 & CF2

COLUMN-FOOTING DETAILS

SCALE 1:100M

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 ACADEMIC BUILDING 2 (PHASE I)	ENGR. ALEXANDER JHON S. TABAQUERO CIVIL ENGINEER, OFDM-MIU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ERWIN P. LACANLALE DEAN, COED	ATTY. GHEROLD C. BENITEZ VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	S - 11
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 30/59

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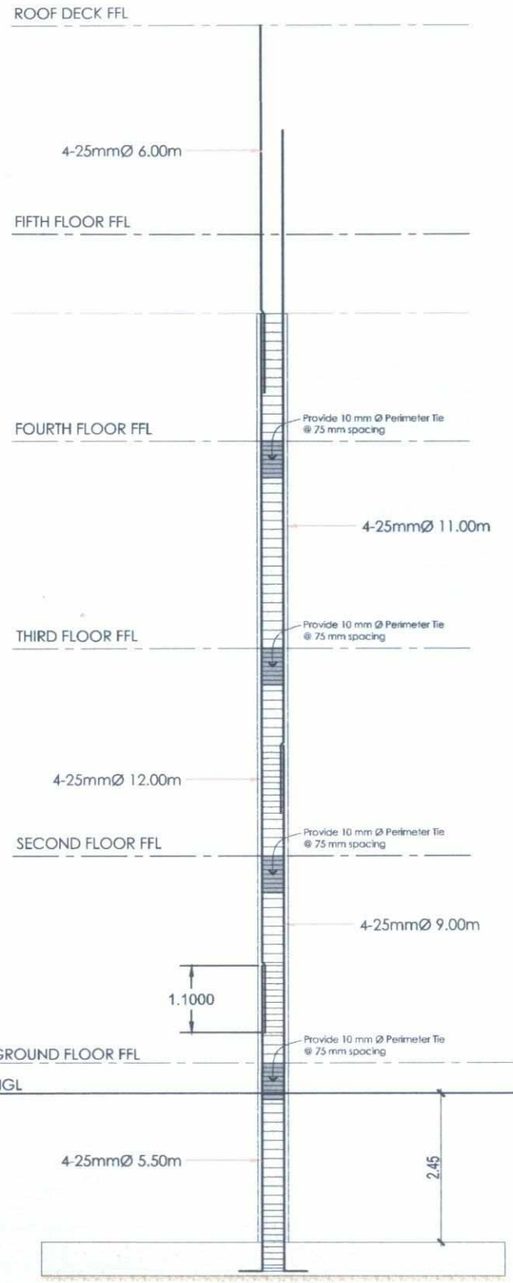
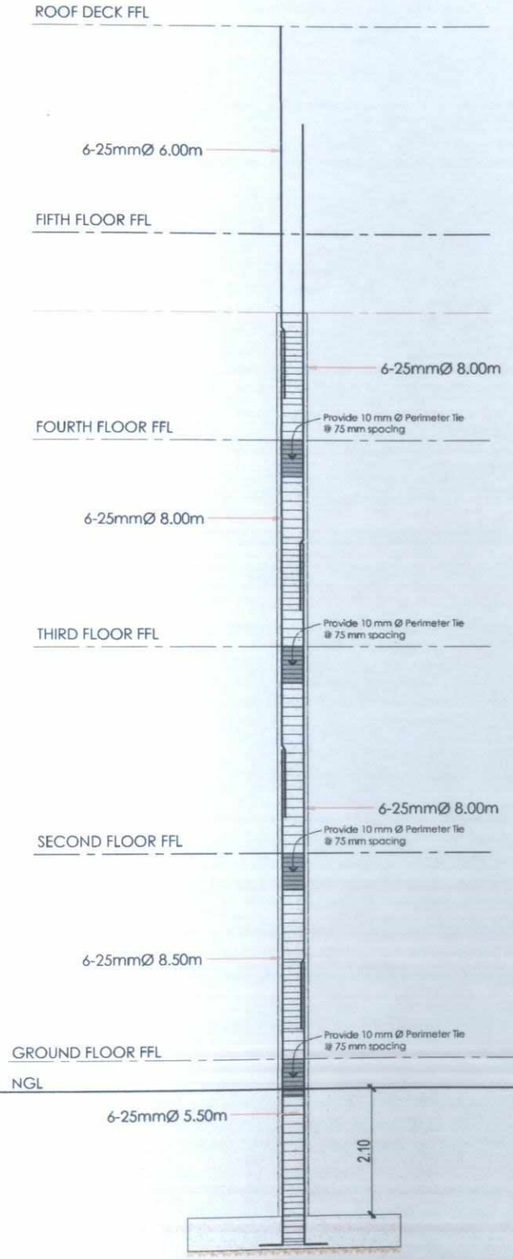
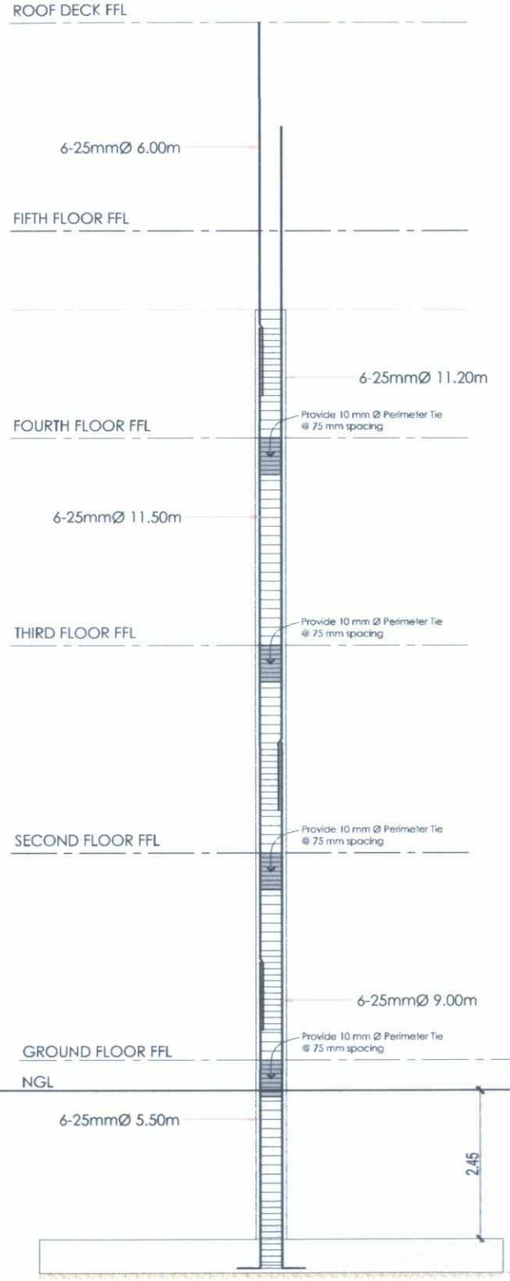


C2-MF1



C1-F3 , CF1 & CF2



C1-MF1

COLUMN-FOOTING DETAILS

SCALE 1:100M

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 ACADEMIC BUILDING 2 (PHASE I)	ENGR. ALEXANDER JHON S. TABAQUERO CIVIL ENGINEER, OFDM-MIU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ERWIN P. LACANLALE DEAN, CSBM	ATTY. GHEROLD C. BENITEZ VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	S - 12
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 31/59

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SCHEDULE OF GRADE BEAMS

MARK	CONT'. BARS	LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
GB-1	3-20mm top 4-16mm top 2-20mm bot.		3-20mm 4-16mm 2-20mm		3-20mm 4-16mm 2-20mm		3-20mm 4-16mm 2-20mm	10mm	2 10 REST SPLICE	50 100 150 100	
		300x500		300x500		300x500					
GB-2	4-20mm top 4-16mm mid 3-20mm bot.		4-20mm 4-16mm 3-20mm		4-20mm 4-16mm 3-20mm		4-20mm 4-16mm 3-20mm	10mm	2 10 REST SPLICE	50 100 150 100	
		350x600			350x600		350x600				
GB-3	2-20mm top 2-16mm mid 2-25mm bot.		2-20mm 2-16mm 2-25mm		2-20mm 2-16mm 2-25mm		2-20mm 2-16mm 2-25mm	10mm	2 10 REST SPLICE	50 100 150 100	
		250x450		250x450		250x450					
GB-4	2-20mm top 2-20mm bot.		2-20mm 2-20mm		2-20mm 2-20mm		2-20mm 2-20mm	10mm	2 10 REST SPLICE	50 100 150 100	
		200x350		200x350		200x350					

SCHEDULE OF FOOTING TIE BEAM

MARK	CONT'. BARS	LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
FTB	2-16mm top 2-16mm bot.		2-16mm 2-16mm		2-16mm 2-16mm		2-16mm 2-16mm	10mm	2 10 REST SPLICE	50 100 150 100	
		350x400		350x400		350x400					

SCHEDULE OF SECOND FLOOR BEAMS

MARK	CONT'. BARS	LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
2B - 1	2-20mm top 2-12mm mid 2-20mm bot.		2-20mm 2-12mm 2-20mm		2-20mm 2-12mm 2-20mm		2-20mm 2-12mm 2-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
		200x350		200x350		200x350					
2B - 2	2-25mm top 2-16mm mid 2-20mm bot.		2-25mm 2-16mm 4-20mm		2-25mm 2-16mm 2-20mm		2-25mm 2-16mm 4-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
		250x450		250x450		250x450					
2B - 3	3-25mm top 2-16mm mid 3-20mm bot.		3-25mm 2-16mm 3-20mm		3-25mm 2-16mm 3-20mm		3-25mm 2-16mm 3-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
		300x500		300x500		300x500					
2B - 4	3-20mm top 2-16mm mid 3-20mm bot.		5-20mm 2-16mm 5-20mm		3-20mm 2-16mm 3-20mm		5-20mm 2-16mm 5-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
		300x500		300x500		300x500					
2B - 5	3-25mm top 4-16mm mid 3-20mm bot.		3-25mm 4-16mm 3-20mm		3-25mm 4-16mm 3-20mm		3-25mm 4-16mm 3-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
		350x600		350x600		350x600					
2B - 6	3-25mm top 3-20mm bot.		3-25mm 3-20mm		3-25mm 3-20mm		3-25mm 3-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
		350x600		350x600		350x600					
2B - 7	3-20mm top 4-16mm mid 3-20mm bot.		3-20mm 4-16mm 3-20mm		3-20mm 4-16mm 3-20mm		3-20mm 4-16mm 3-20mm	10mm	2 10 REST SPLICE	50 100 150 100	
		350x600		350x600		350x600					
2B - 8	4-20mm top 4-16mm mid 3-20mm bot.		4-20mm 4-16mm 3-20mm		4-20mm 4-16mm 3-20mm		4-20mm 4-16mm 3-20mm	10mm	2 10 REST SPLICE	50 100 150 100	
		350x600		350x600		350x600					
2B - 9	4-25mm top 6-16mm mid 3-20mm bot.		4-25mm 6-16mm 3-20mm		4-25mm 6-16mm 3-20mm		4-25mm 6-16mm 3-20mm	10mm	2 10 REST SPLICE	50 100 150 100	
		350x600		350x600		350x600					
2B - 10	4-25mm top 3-20mm bot.		4-25mm 3-20mm		4-25mm 3-20mm		4-25mm 3-20mm	10mm	2 10 REST SPLICE	50 100 150 100	
		350x600		350x600		350x600					
2B - 11	3-25mm top 8-16mm mid 3-25mm bot.		3-25mm 8-16mm 3-25mm		3-25mm 8-16mm 3-25mm		3-25mm 8-16mm 3-25mm	10mm	2 10 REST SPLICE	50 100 150 100	
		350x600		350x600		350x600					
2B - 12	3-25mm top 4-20mm bot.		3-25mm 4-20mm		3-25mm 4-20mm		3-25mm 4-20mm	10mm	2 10 REST SPLICE	50 100 150 100	
		350x600		350x600		350x600					
2B - 13	4-25mm top 4-20mm bot.		4-25mm 4-20mm		4-25mm 4-20mm		4-25mm 4-20mm	10mm	2 10 REST SPLICE	50 100 150 100	
		350x600		350x600		350x600					
2B - 14	3-25mm top 4-16mm mid 4-20mm bot.		4-25mm 4-16mm 6-20mm		3-25mm 4-16mm 4-20mm		4-25mm 4-16mm 6-20mm	10mm	2 10 REST SPLICE	50 100 150 100	
		350x600		350x600		350x600					

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PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 32 /59

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SCHEDULE OF THIRD FLOOR BEAMS

MARK	CONT'. BARS	LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
3B - 1	2-20mm top 2-12mm mid 2-20mm bot.	200x350	2-20mm 2-12mm 2-20mm	200x350	2-20mm 2-12mm 2-20mm	200x350	2-20mm 2-12mm 2-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 2	2-25mm top 2-16mm mid 2-20mm bot.	250x450	2-25mm 2-16mm 2-20mm	250x450	2-25mm 2-16mm 2-20mm	250x450	2-25mm 2-16mm 2-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 3	2-25mm top 4-16mm mid 2-20mm bot.	250x450	2-25mm 4-16mm 2-20mm	250x450	2-25mm 4-16mm 2-20mm	250x450	2-25mm 4-16mm 2-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 4	3-20mm top 2-16mm mid 3-20mm bot.	300x500	3-20mm 2-16mm 3-20mm	300x500	3-20mm 2-16mm 3-20mm	300x500	3-20mm 2-16mm 3-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 5	3-25mm top 3-20mm bot.	300x500	3-25mm 3-20mm	300x500	3-25mm 3-20mm	300x500	3-25mm 3-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 6	3-25mm top 3-20mm bot.	300x500	3-25mm 5-20mm	300x500	3-25mm 3-20mm	300x500	3-25mm 5-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 7	4-20mm top 3-20mm bot.	300x500	4-20mm 3-20mm	300x500	4-20mm 3-20mm	300x500	4-20mm 3-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 8	4-20mm top 4-16mm mid 3-20mm bot.	350x600	4-20mm 4-16mm 3-20mm	350x600	4-20mm 4-16mm 3-20mm	350x600	4-20mm 4-16mm 3-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 9	3-25mm top 4-16mm mid 3-20mm bot.	350x600	3-25mm 4-16mm 3-20mm	350x600	3-25mm 4-16mm 3-20mm	350x600	3-25mm 4-16mm 3-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 10	4-20mm top 6-16mm mid 3-20mm bot.	350x600	4-20mm 6-16mm 3-20mm	350x600	4-20mm 6-16mm 3-20mm	350x600	4-20mm 6-16mm 3-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 11	3-20mm top 4-16mm mid 3-20mm bot.	350x600	3-20mm 4-16mm 3-20mm	350x600	3-20mm 4-16mm 3-20mm	350x600	3-25mm 4-16mm 3-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 12	4-25mm top 4-16mm mid 3-20mm bot.	350x600	4-25mm 4-16mm 3-20mm	350x600	4-25mm 4-16mm 3-20mm	350x600	4-25mm 4-16mm 3-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 13	4-25mm top 6-16mm mid 3-20mm bot.	350x600	4-25mm 6-16mm 3-20mm	350x600	4-20mm 6-16mm 3-20mm	350x600	4-25mm 6-16mm 3-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 14	4-25mm top 3-20mm bot.	350x600	4-25mm 3-20mm	350x600	4-25mm 3-20mm	350x600	4-25mm 3-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 15	3-25mm top 4-20mm bot.	350x600	3-25mm 4-20mm	350x600	3-25mm 4-20mm	350x600	3-25mm 4-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 16	4-25mm top 4-20mm bot.	350x600	4-25mm 4-20mm	350x600	4-25mm 4-20mm	350x600	4-25mm 4-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
3B - 17	4-25mm top 4-16mm mid 4-20mm bot.	350x600	4-25mm 4-16mm 4-20mm	350x600	4-25mm 4-16mm 4-20mm	350x600	4-25mm 4-16mm 4-20mm	10mm	2 10 REST SPLICE	50 100 165 100	

SCHEDULE OF FOURTH FLOOR BEAMS

MARK	CONT'. BARS	LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
4B - 1	2-20mm top 2-20mm bot.	200x350	2-20mm 2-20mm	200x350	2-20mm 2-20mm	200x350	2-20mm 2-20mm	10mm	2 10 REST SPLICE	50 100 165 100	
4B - 2	2-20mm top 2-12mm top 2-20mm bot.	200x350	2-20mm 2-12mm 2-20mm	200x350	2-20mm 2-12mm 2-20mm	200x350	2-20mm 2-12mm 2-20mm	10mm	2 10 REST SPLICE	50 100 165 100	

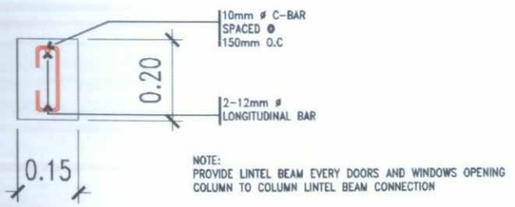
SCHEDULE OF FOURTH FLOOR BEAMS

MARK	CONT'. BARS	LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
								10mm	2	50	
4B - 1	2-20mm top		2-20mm		2-20mm		2-20mm		10	100	
									REST	165	
	2-20mm bot.		2-20mm		2-20mm		2-20mm		SPLICE	100	
		200x350		200x350		200x350					
								10mm	2	50	
4B - 2	2-20mm top		2-20mm		2-20mm		2-20mm		10	100	
	2-12mm top		2-12mm		2-12mm		2-12mm		REST	165	
	2-20mm bot.		2-20mm		2-20mm		2-20mm		SPLICE	100	
		200x350		200x350		200x350					
								10mm	2	50	
4B - 3	2-20mm top		2-20mm		2-20mm		2-20mm		10	100	
									REST	165	
	2-20mm bot.		2-20mm		2-20mm		2-20mm		SPLICE	100	
		250x450		250x450		250x450					
								10mm	2	50	
4B - 4	2-25mm top		2-25mm		2-25mm		2-25mm		10	100	
	2-16mm mid		2-16mm		2-16mm		2-16mm		REST	165	
	2-20mm bot.		2-20mm		2-20mm		2-20mm		SPLICE	100	
		250x450		250x450		250x600					
								10mm	2	50	
4B - 5	3-20mm top		3-20mm		3-20mm		3-20mm		10	100	
									REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		350x600		350x600		350x600					
								10mm	2	50	
4B - 6	3-25mm top		3-25mm		3-25mm		3-25mm		10	100	
									REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		350x600		350x600		350x600					
								10mm	2	50	
4B - 7	3-20mm top		3-20mm		3-20mm		3-20mm		10	100	
	2-16mm mid		2-16mm		2-16mm		2-16mm		REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
								10mm	2	50	
4B - 8	4-20mm top		4-20mm		4-20mm		4-20mm		10	100	
									REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		350x600		350x600		350x600					
								10mm	2	50	
4B - 9	4-25mm top		4-25mm		4-25mm		4-25mm		10	100	
									REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		350x600		350x600		350x600					
								10mm	2	50	
4B - 10	3-20mm top		3-20mm		3-20mm		3-20mm		10	100	
	4-16mm mid		4-16mm		4-16mm		4-16mm		REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		350x600		350x600		350x600					

MARK	CONT'. BARS	LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
								10mm	2	50	
4B - 11	3-25mm top		3-25mm		3-25mm		3-25mm		10	100	
	4-16mm mid		4-16mm		4-16mm		4-16mm		REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		350x600		350x600		350x600					
								10mm	2	50	
4B - 12	4-25mm top		4-25mm		4-25mm		4-25mm		10	100	
	4-16mm mid		4-16mm		4-16mm		4-16mm		REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		350x600		350x600		350x600					
								10mm	2	50	
4B - 13	4-20mm top		4-20mm		4-20mm		4-20mm		10	100	
	4-16mm mid		4-16mm		4-16mm		4-16mm		REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		350x600		350x600		350x600					
								10mm	2	50	
4B - 14	4-20mm top		4-20mm		4-20mm		4-20mm		10	100	
	6-16mm mid		6-16mm		6-16mm		6-16mm		REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		350x600		350x600		350x600					

SCHEDULE OF RAMP BEAMS

MARK	CONT'. BARS	LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
								10mm	2	50	
RAMP B-1	4-20mm top		4-20mm		4-20mm		4-20mm		10	100	
	4-16mm mid		4-16mm		4-16mm		4-16mm		REST	150	
	2-20mm bot		2-20mm		2-20mm		2-20mm		SPLICE	100	
		250x400		250x400		250x400					
								10mm	2	50	
RAMP B-2	2-20mm top		2-20mm		2-20mm		2-20mm		10	100	
	2-16mm mid		2-16mm		2-16mm		2-16mm		REST	150	
	2-20mm bot		2-20mm		2-20mm		2-20mm		SPLICE	100	
		250x400		250x400		250x400					



NOTE:
PROVIDE LINTEL BEAM EVERY DOORS AND WINDOWS OPENING
COLUMN TO COLUMN LINTEL BEAM CONNECTION

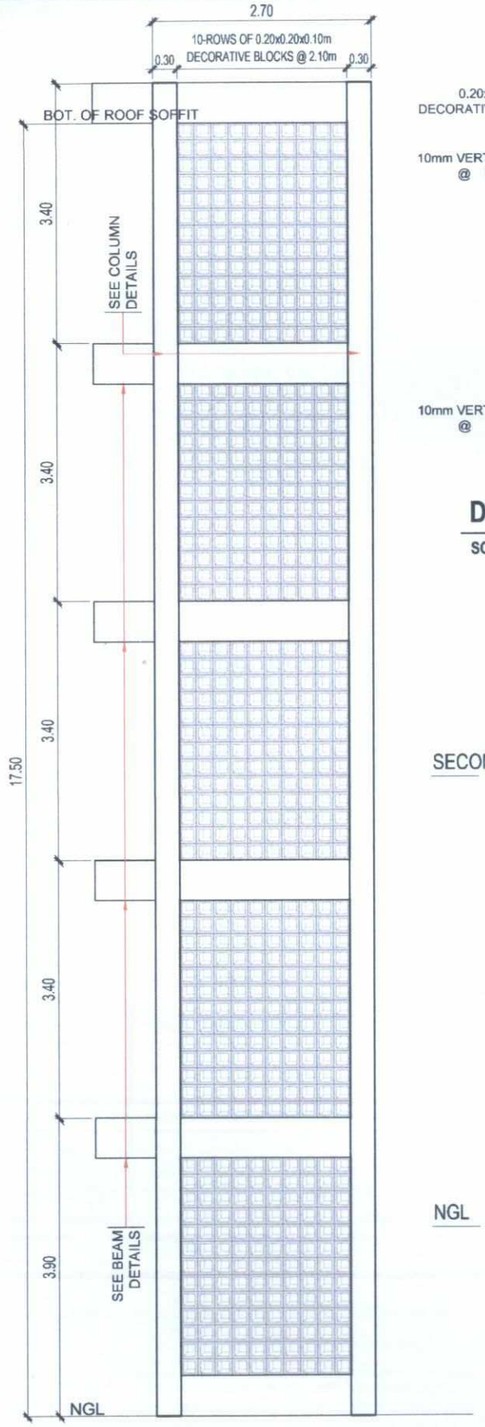
TYPICAL LINTEL BEAM DETAILS

SCALE 1:15 MTS.

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

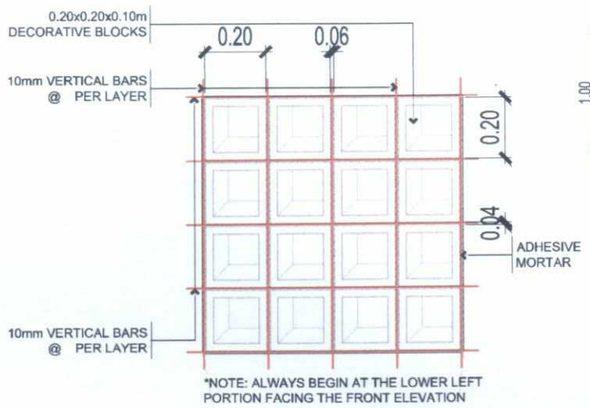
PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE I)	ENGR. ALEXANDER JHON S. TABAQUERO CIVIL ENGINEER, OFDM-MIU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ERWIN D. KACANLALE DEAN, COET	ATTY. GHEROLD C. BENITEZ VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	S - 15
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 34/59

OCT 03 2025



TYPICAL CONCRETE BRISE SOLEIL ELEVATION

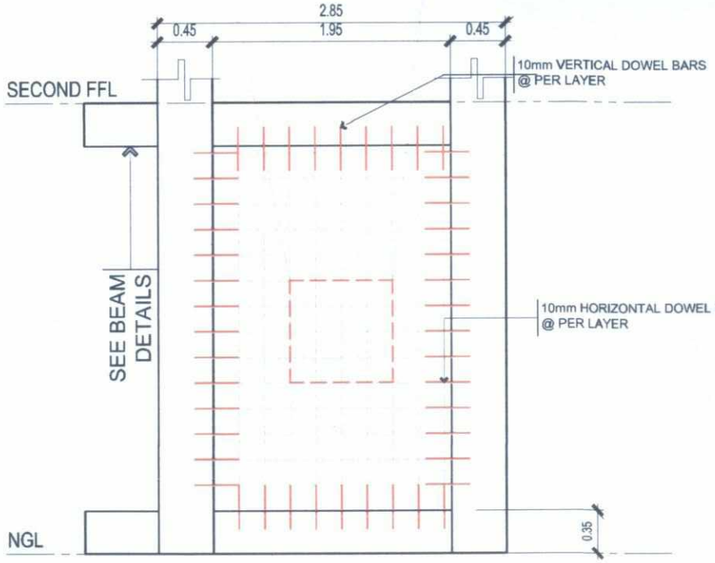
SCALE 1:80M



*NOTE: ALWAYS BEGIN AT THE LOWER LEFT PORTION FACING THE FRONT ELEVATION

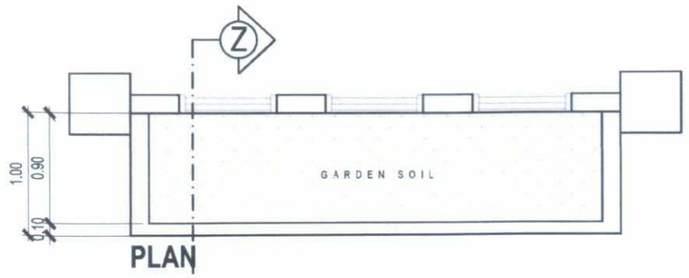
DECORATIVE BLOCK MODULE FRONT VIEW

SCALE 1:20M



TYPICAL CONCRETE BRISE SOLEIL

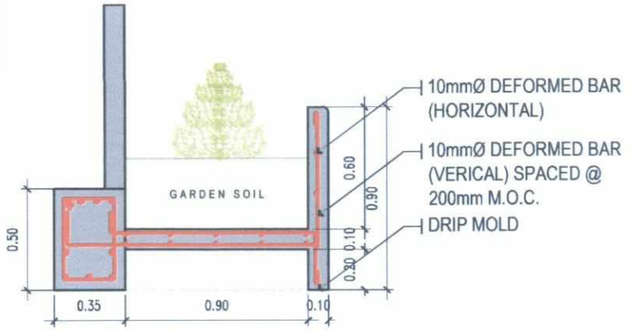
NOT TO SCALE



PLAN

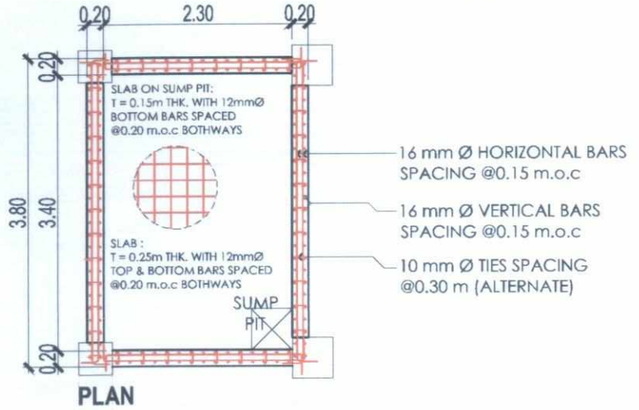
NOTE:

50 mm CONCRETE COVER
12 mm Ø VERTICAL BARS
12 mm Ø HORIZONTAL BARS
4" CHB ; PLASTERED BOTH SIDE ;
APPLY CEMETITIOUS WATERPROOFING

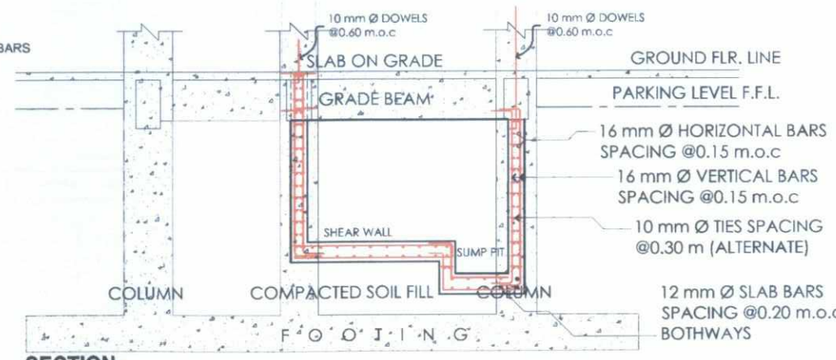


PLANT BOX SECTION - Z

SCALE 1:30M



PLAN



SECTION

NOTE:

1. PROVIDE LONGITUDINAL BAR (L/3) FOR RAMP BEAMS & PLANT BOXES (L) (SEE SCHEDULE OF BEAMS & PLANT BOX DETAIL)
2. ALL EXPOSED REINFORCEMENT OF MAIN STRUCTURAL MEMBER SHALL BE COATED WITH EPOXY PRIMER (2 COATS)
3. PROVIDE 0.6m LENGTH OF VERTICAL AND HORIZONTAL DOWELS FOR MASONRY & PLANT BOXES
4. PROVIDE SHEAR BARS IN ALL SLAB OPENING FOR PLUMBING, ELECTRICAL, & MECHANICAL PIPE CHASE.

ELEVATOR SHEAR WALL DETAILS

SCALE 1:75 M

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Romulo Boulevard, Tarlac City, Philippines 2300

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CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE I)	ENGR. ALEXANDER JHON S. TABAQUERO CIVIL ENGINEER, OFDM-MU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ERWIN P. LACANLALE DEAN, COED	ATTY. GHEROLDIC. BENITEZ VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	S - 16
PROJECT LOCATION:								PAGE NO:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	35/59

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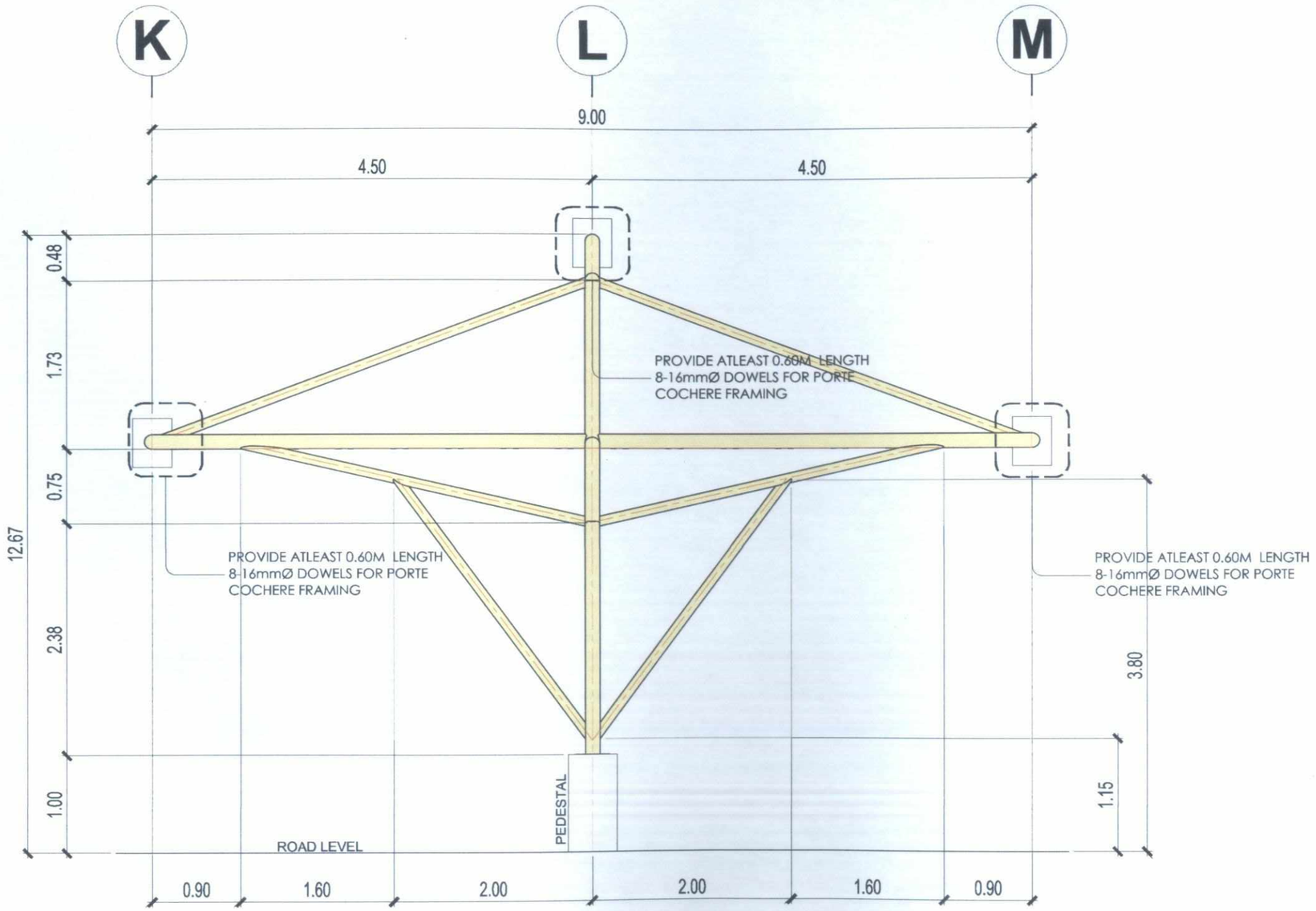

PORTE COCHERE FRAMING DETAIL

SCALE 1:50 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE I) PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. ALEXANDER JHON S. TABAQUERO CIVIL ENGINEER, OFDIM-MIU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDIM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDIM	REQUESTING OFFICE: DR. ERWIN P. LAGAMLALE DEAN, COED	RECOMMENDING APPROVAL: ATTY. GHEROLD C. BENITEZ VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: SEPTEMBER 2025	SHEET NO: S - 17 PAGE NO: 36/59

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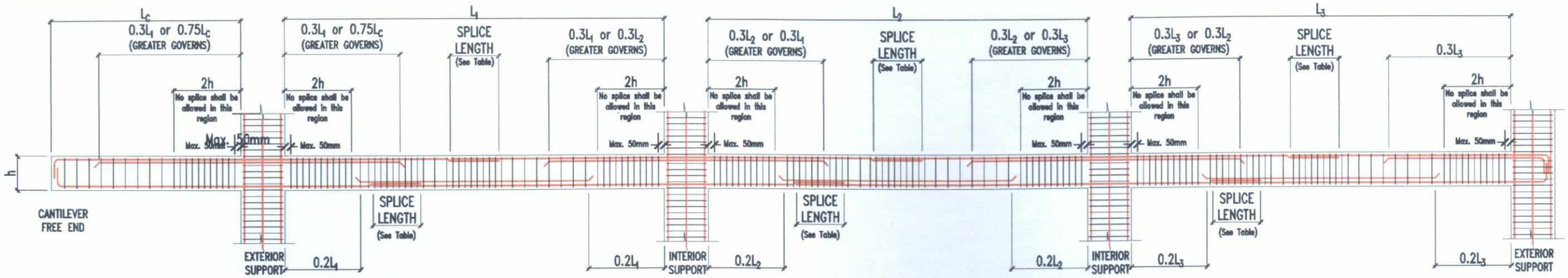
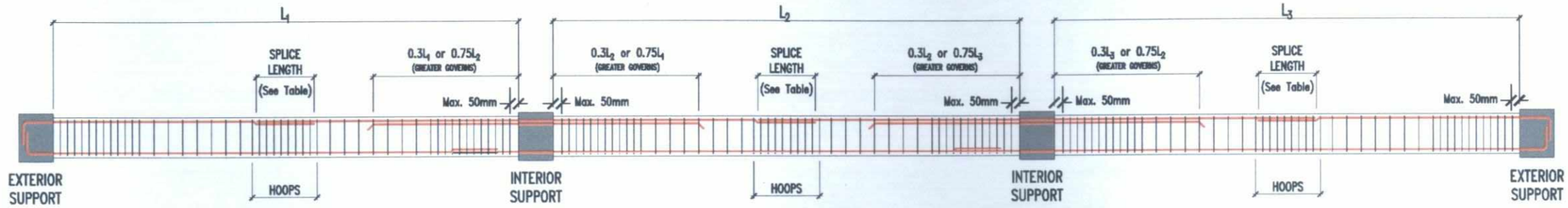


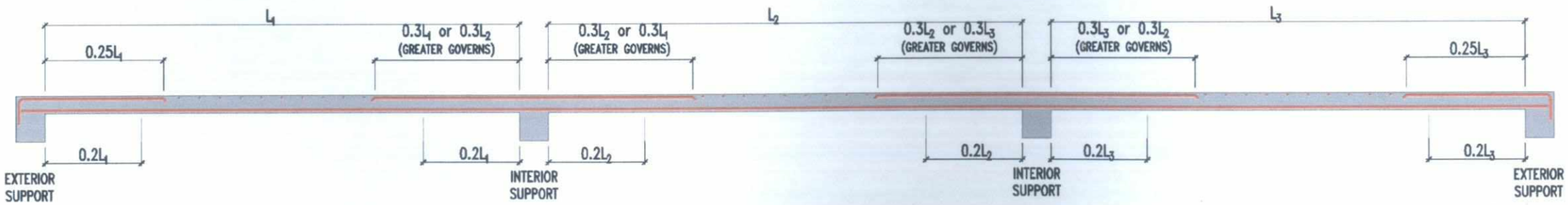
TYPICAL DETAIL OF BEAM

NOT TO SCALE



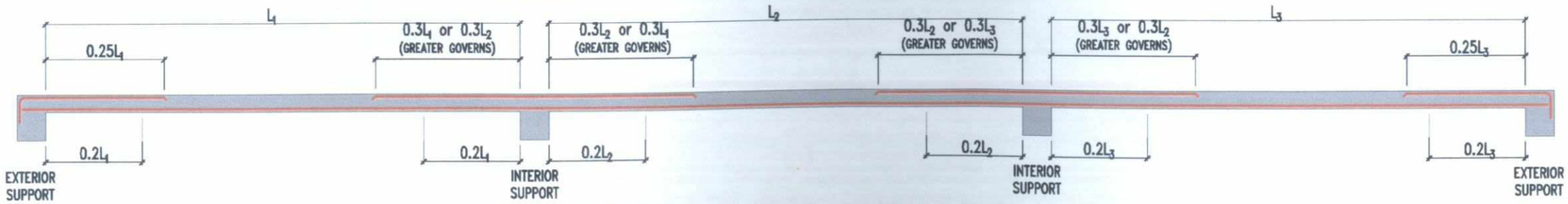
TYPICAL DETAIL OF INTERMEDIATE BEAM

NOT TO SCALE



TYPICAL DETAIL OF SLAB: SECTION A-A

NOT TO SCALE



TYPICAL DETAIL OF SLAB: SECTION B-B

NOT TO SCALE

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Romulo Boulevard, Tarlac City, Philippines 2300

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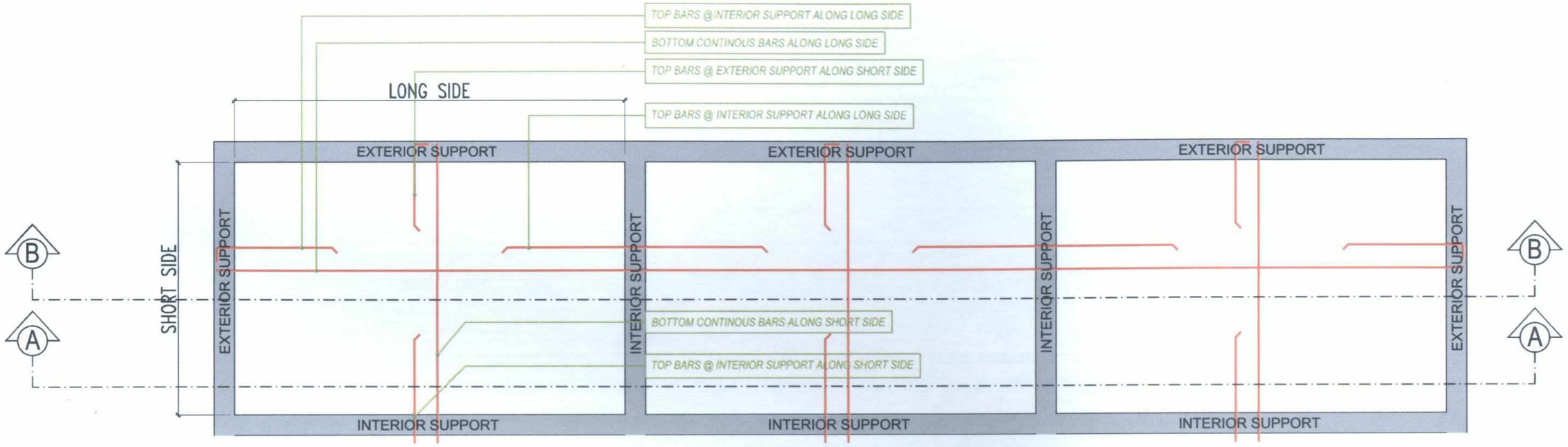

TYPICAL SLAB REINFORCEMENT LAYOUT

NOT TO SCALE

SCHEDULE OF SUSPENDED SLAB

MARK	THICKNESS	REINFORCEMENT	EXTERIOR SUPPORT		MIDPANEL		INTERIOR SUPPORT	
			TOP BAR	BOTTOM BAR	TOP BAR	BOTTOM BAR	TOP BAR	BOTTOM BAR
S1	125mm	ALONG LONG SIDE	10mm @ 200mm	10mm @ 200mm	10mm @ 200mm	10mm @ 200mm	10mm @ 200mm	10mm @ 200mm
		ALONG SHORT SIDE	10mm @ 200mm	10mm @ 200mm	10mm @ 200mm	10mm @ 200mm	10mm @ 200mm	10mm @ 200mm
S2	125mm	ALONG LONG SIDE	10mm @ 200mm	10mm @ 200mm	N/A	10mm @ 200mm	10mm @ 200mm	10mm @ 200mm
		ALONG SHORT SIDE	10mm @ 200mm	10mm @ 200mm	N/A	10mm @ 200mm	10mm @ 200mm	10mm @ 200mm

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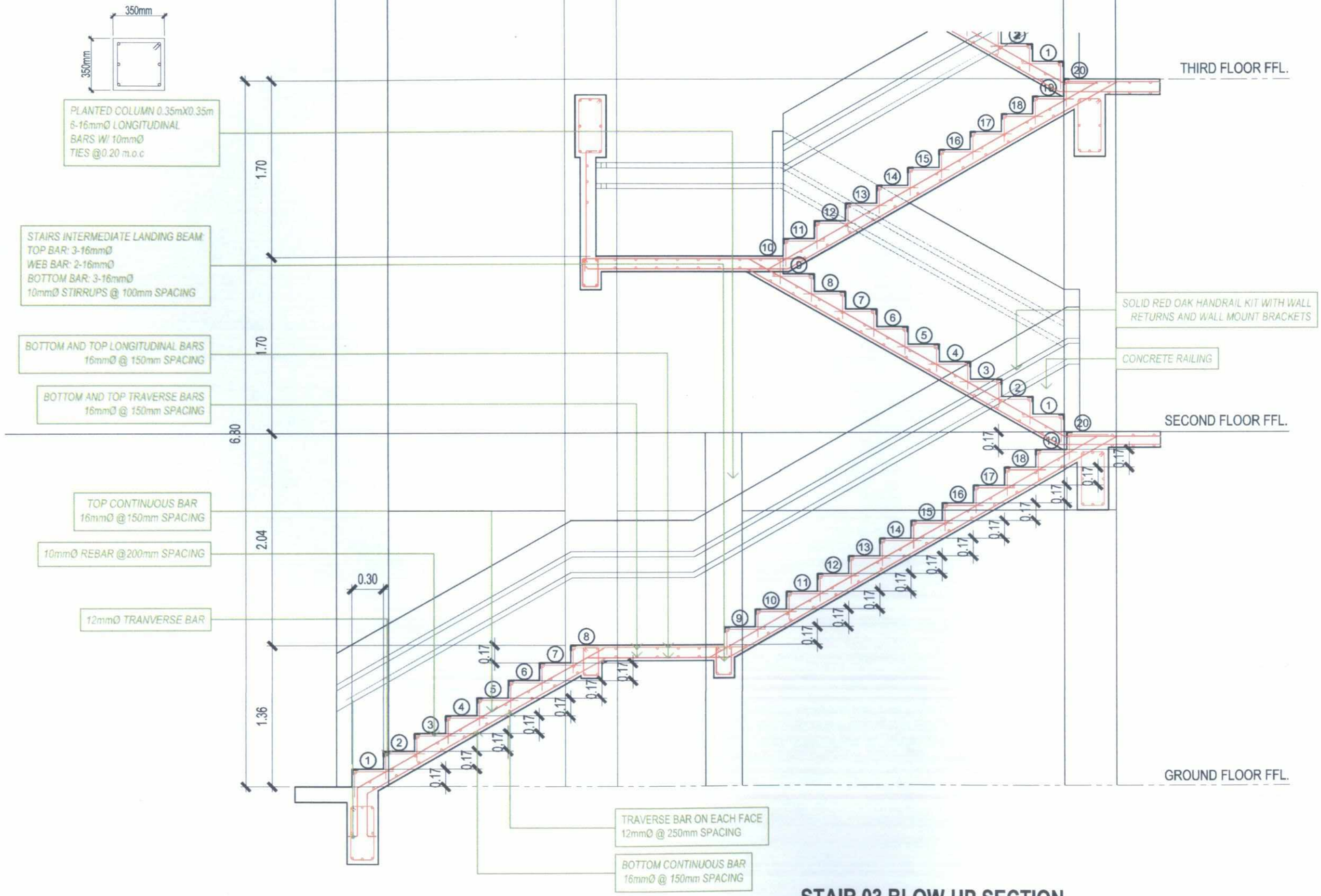

STAIR 03 BLOW-UP SECTION

SCALE 1:40M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE I) PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. ALEXANDER JHON S. TABAQUERO CIVIL ENGINEER, OFDM-MU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. ERWIN P. LADANLALE DEAN, COED	RECOMMENDING APPROVAL: ATTY. GHERO D. C. BENITEZ VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: SEPTEMBER 2025	SHEET NO: S - 20 PAGE NO: 39/59

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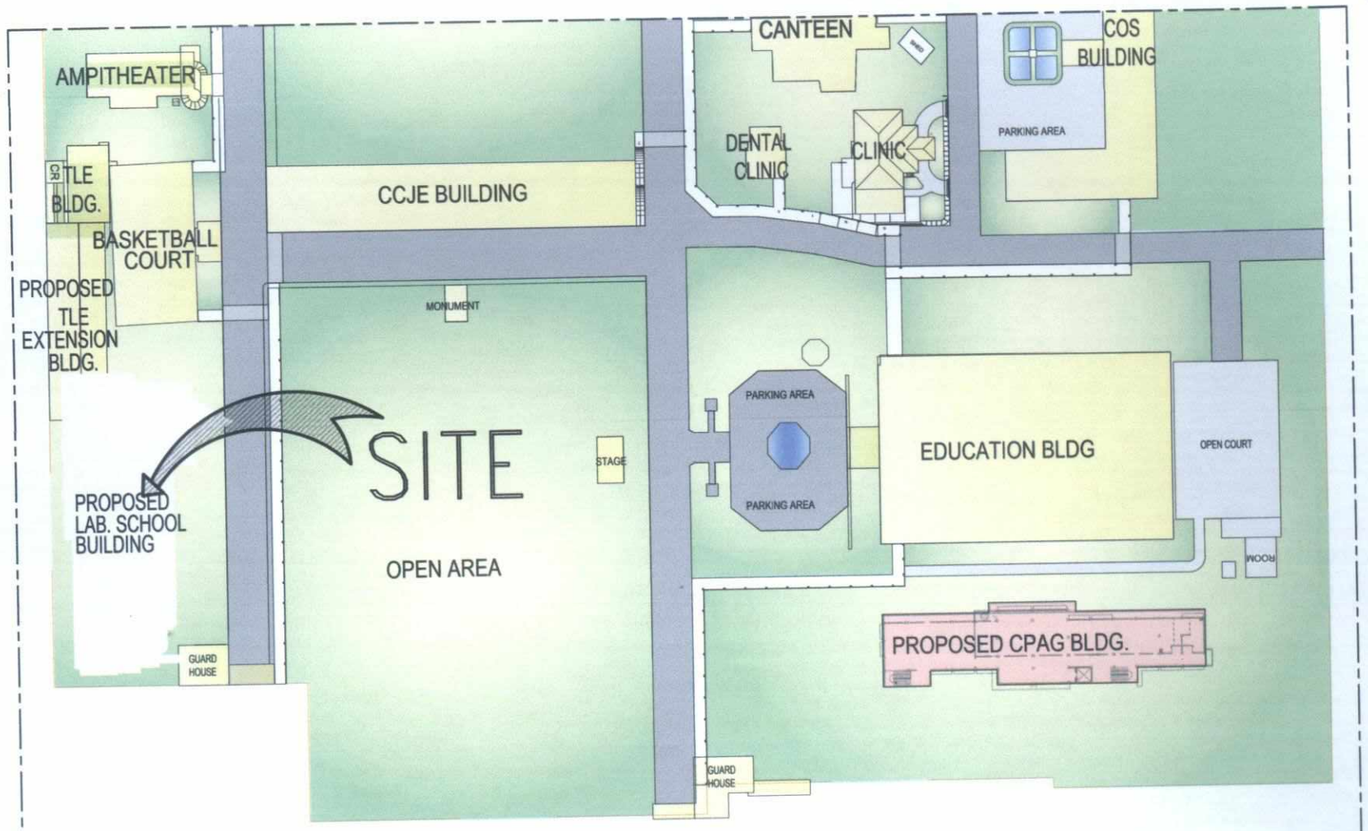
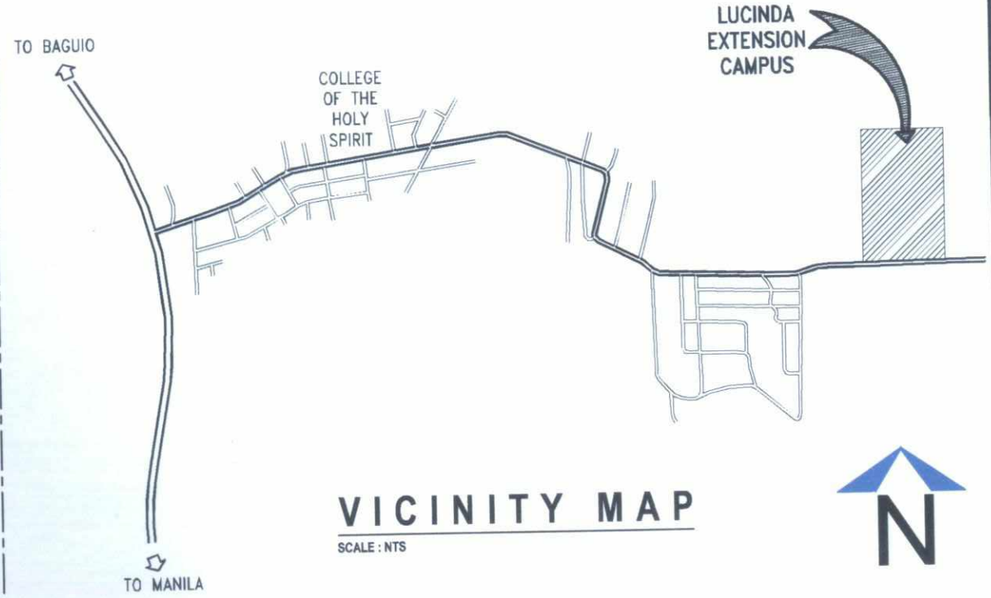


LOCATION MAP

SCALE 1:2000



VICINITY MAP

SCALE : NTS

LEGENDS

SP	SOIL PIPE	FD	FLOOR DRAIN		6" Ø PVC S1000 WASTE PIPES
WP	WASTE PIPE	RD	ROOF DRAIN		4" Ø PVC S1000 SOIL/WASTE PIPES
VP	VENT PIPE	URI	URINAL		3" Ø PVC S1000 WASTE PIPES
SS	SOIL STACK	WC	WATER CLOSET		2" Ø PVC S1000 WASTE PIPES
VS	VENT STACK	LAV	LAVATORY		3" Ø PVC S1000 VENT PIPES
VTW	VENT THRU WALL	GV	GATE VALVE		2" Ø PVC S1000 VENT PIPES
SVTR	STACK VENT THRU ROOF	CV	CHECK VALVE		6" Ø PVC S1000 STORM DRAIN PIPES
FCO	FLOOR CLEANOUT	KS	KITCHEN SINK		4" 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 45º 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 1/2º).
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
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PROJECT TITLE: CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE 1)	PREPARED BY: AR. PAULO A. DOCTOR, rmp, ARCHITECT/MASTER PLUMBER, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. ERWIN P. LACANLALE, OIC, COED	RECOMMENDING APPROVAL: ATTY. GHERONI C. BENITEZ, VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: P-1
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 40/59

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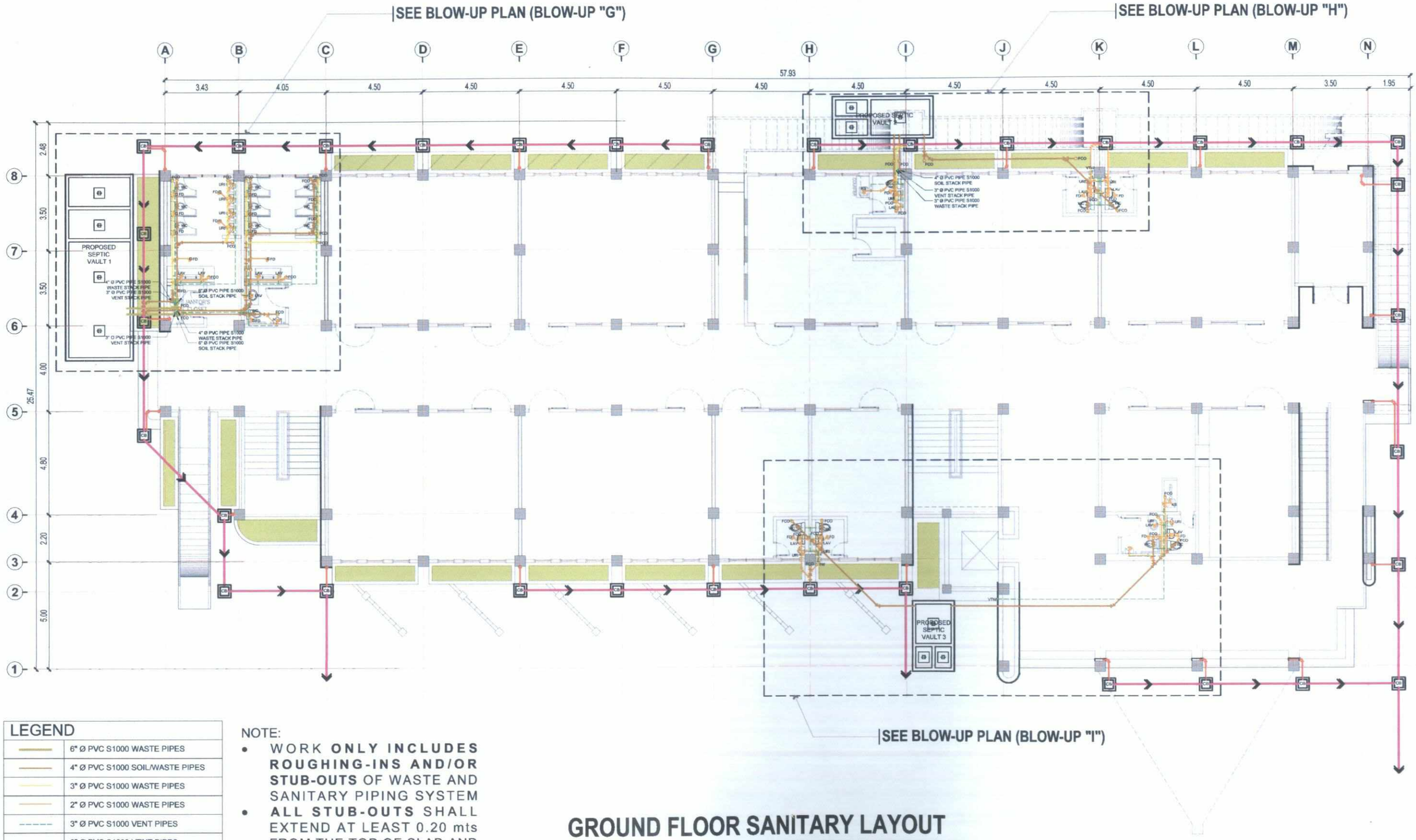

LEGEND	
	6" Ø PVC S1000 WASTE PIPES
	4" Ø PVC S1000 SOIL/WASTE PIPES
	3" Ø PVC S1000 WASTE PIPES
	2" Ø PVC S1000 WASTE PIPES
	3" Ø PVC S1000 VENT PIPES
	2" Ø PVC S1000 VENT PIPES
	6" Ø PVC S1000 STORM DRAIN PIPES
	4" Ø PVC S1000 STORM DRAIN PIPES

NOTE:

- WORK **ONLY INCLUDES ROUGHING-INS AND/OR STUB-OUTS** OF WASTE AND SANITARY PIPING SYSTEM
- **ALL STUB-OUTS** SHALL EXTEND AT LEAST 0.20 mts FROM THE TOP OF SLAB AND SHALL BE PROPERLY COVERED TO ENSURE PIPE PROTECTION

GROUND FLOOR SANITARY LAYOUT

1:175 M

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PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 41/59

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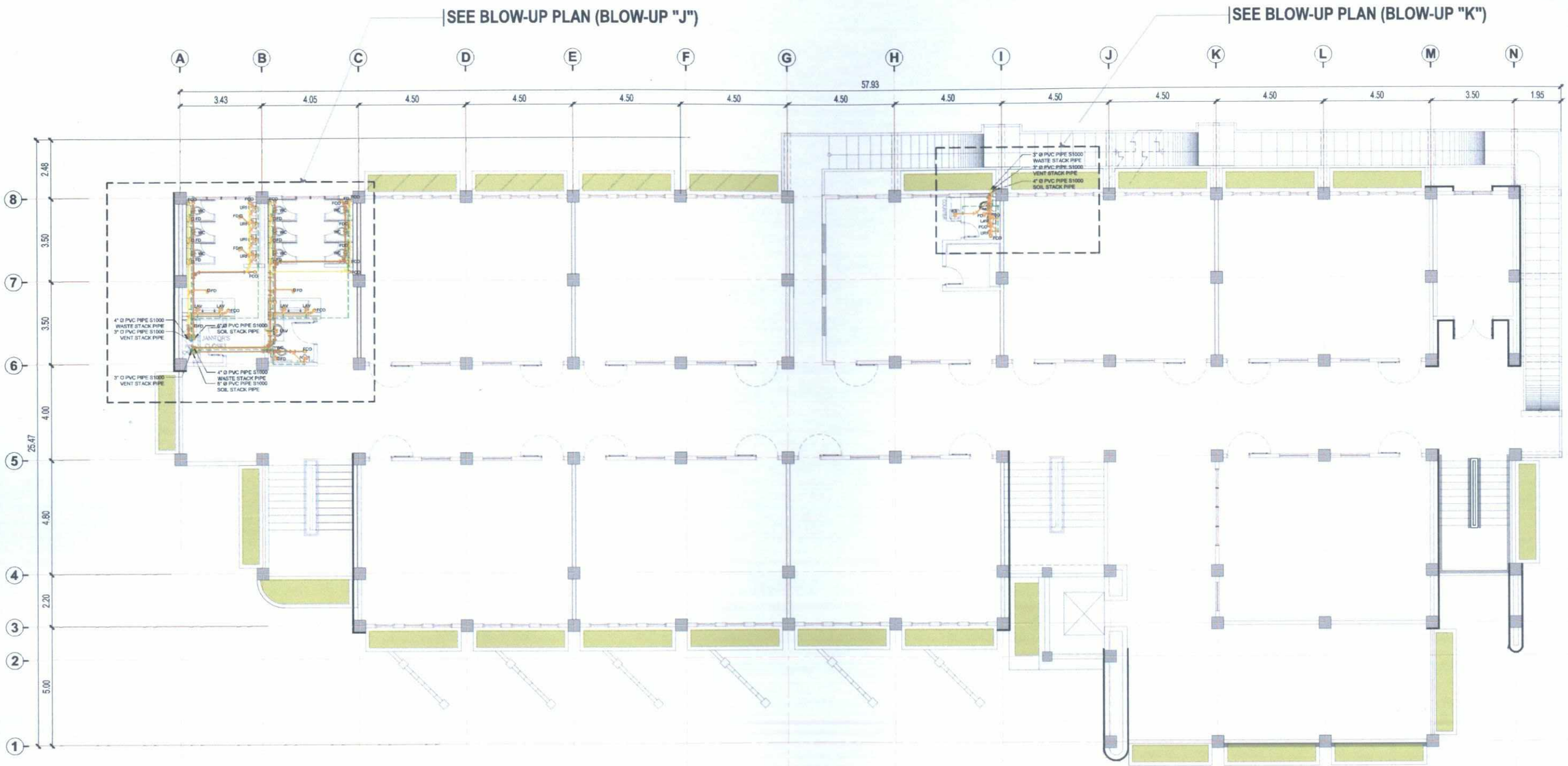

LEGEND	
	6" Ø PVC S1000 WASTE PIPES
	4" Ø PVC S1000 SOIL/WASTE PIPES
	3" Ø PVC S1000 WASTE PIPES
	2" Ø PVC S1000 WASTE PIPES
	3" Ø PVC S1000 VENT PIPES
	2" Ø PVC S1000 VENT PIPES
	6" Ø PVC S1000 STORM DRAIN PIPES
	4" Ø PVC S1000 STORM DRAIN PIPES

NOTE:

- WORK **ONLY INCLUDES ROUGHING-INS AND/OR STUB-OUTS** OF WASTE AND SANITARY PIPING SYSTEM
- **ALL STUB-OUTS** SHALL EXTEND AT LEAST 0.20 mts FROM THE TOP OF SLAB AND SHALL BE PROPERLY COVERED TO ENSURE PIPE PROTECTION

TYPICAL SECOND - FOURTH FLOOR SANITARY LAYOUT

1:175 M

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Facilities Development and Management Office
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PROJECT LOCATION:							DATE: SEPTEMBER 2025	PAGE NO: 42/59
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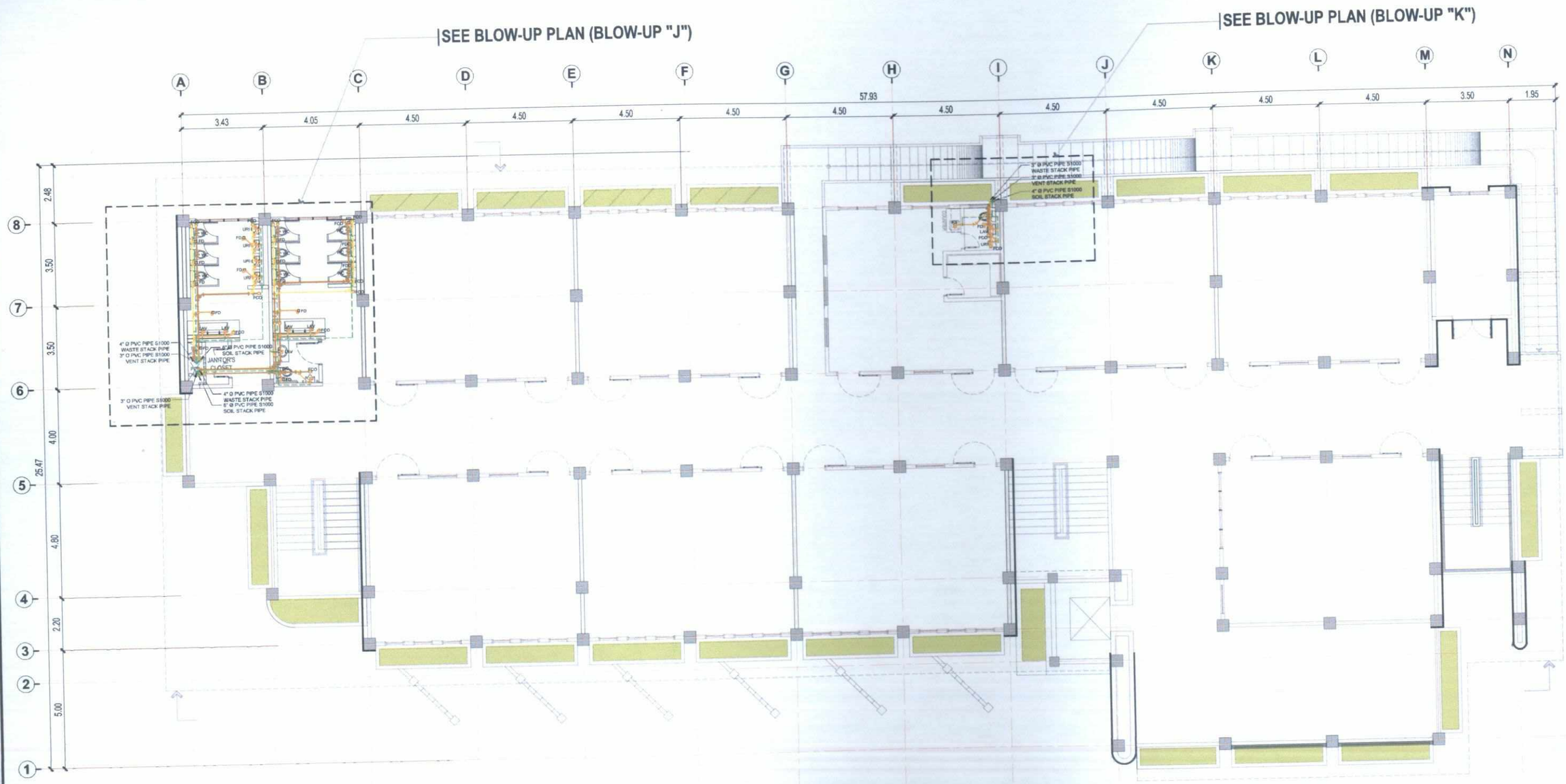

LEGEND	
	6" Ø PVC S1000 WASTE PIPES
	4" Ø PVC S1000 SOIL/WASTE PIPES
	3" Ø PVC S1000 WASTE PIPES
	2" Ø PVC S1000 WASTE PIPES
	3" Ø PVC S1000 VENT PIPES
	2" Ø PVC S1000 VENT PIPES
	6" Ø PVC S1000 STORM DRAIN PIPES
	4" Ø PVC S1000 STORM DRAIN PIPES

NOTE:

- WORK **ONLY INCLUDES ROUGHING-INS AND/OR STUB-OUTS** OF WASTE AND SANITARY PIPING SYSTEM
- **ALL STUB-OUTS** SHALL EXTEND AT LEAST 0.20 mts FROM THE TOP OF SLAB AND SHALL BE PROPERLY COVERED TO ENSURE PIPE PROTECTION

FIFTH FLOOR SANITARY LAYOUT

1:175 M

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Facilities Development and Management Office
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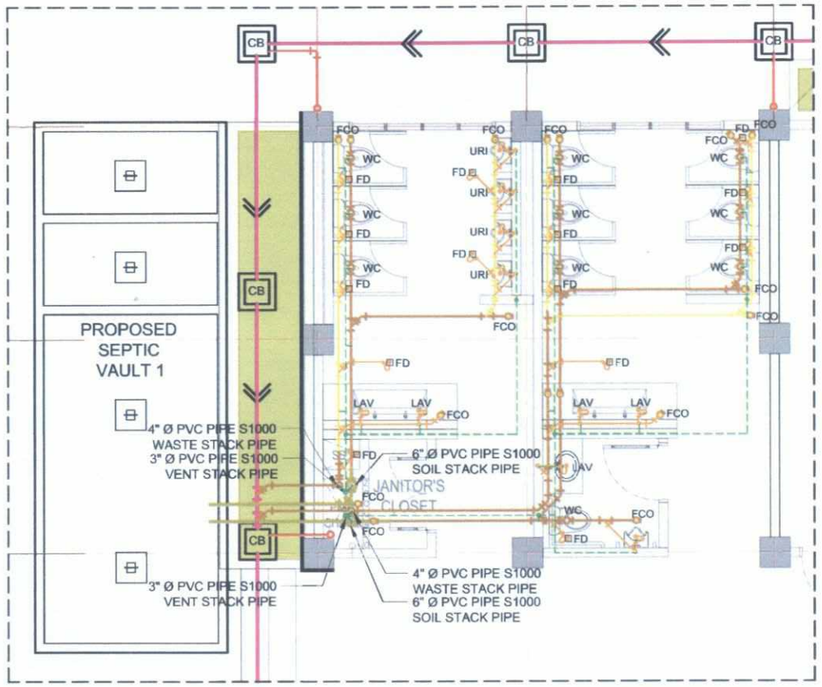
LEGEND	
	6" Ø PVC S1000 WASTE PIPES
	4" Ø PVC S1000 SOIL/WASTE PIPES
	3" Ø PVC S1000 WASTE PIPES
	2" Ø PVC S1000 WASTE PIPES
	3" Ø PVC S1000 VENT PIPES
	2" Ø PVC S1000 VENT PIPES
	6" Ø PVC S1000 STORM DRAIN PIPES
	4" Ø PVC S1000 STORM DRAIN PIPES

NOTE:

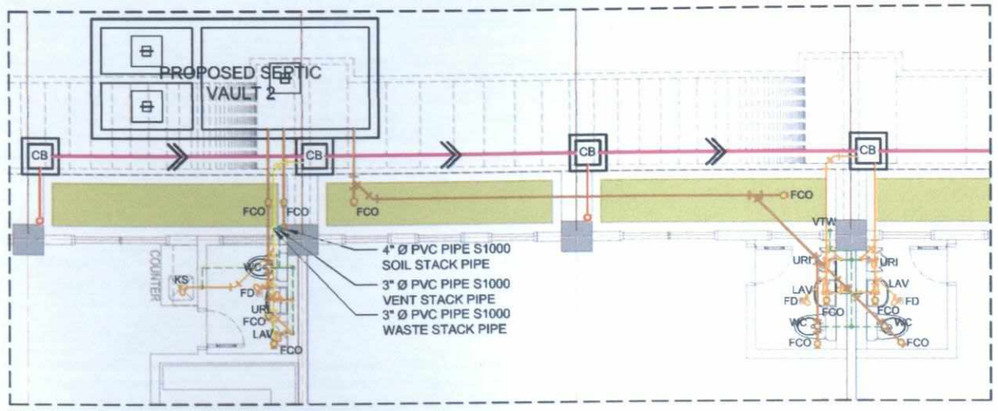
- WORK **ONLY INCLUDES ROUGHING-INS AND/OR STUB-OUTS** OF WASTE AND SANITARY PIPING SYSTEM
- **ALL STUB-OUTS** SHALL EXTEND AT LEAST 0.20 mts FROM THE TOP OF SLAB AND SHALL BE PROPERLY COVERED TO ENSURE PIPE PROTECTION



BLOW - UP "G"

GROUND FLOOR SANITARY LAYOUT

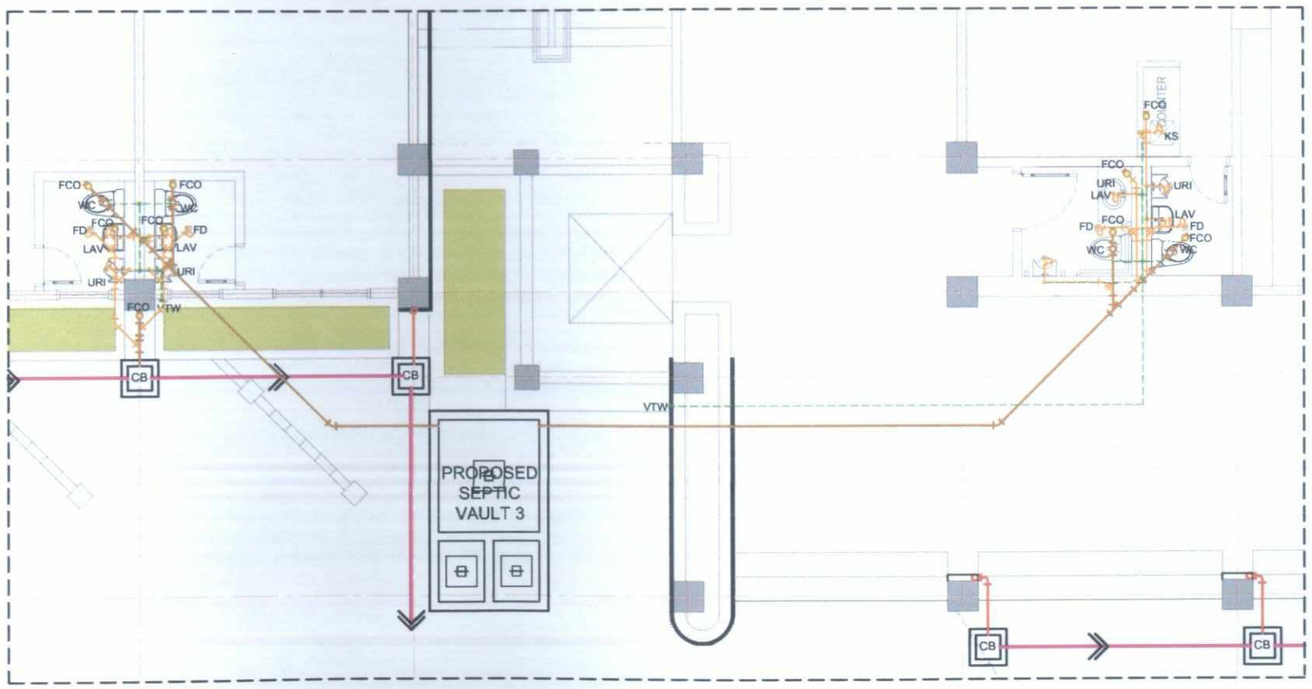
1:100 M



BLOW - UP "H"

GROUND FLOOR SANITARY LAYOUT

1:100 M



BLOW - UP "I"

GROUND FLOOR SANITARY LAYOUT

1:100 M

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE 1) PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. PAULO A. DOCTOR, rmp ARCHITECT/MASTER PLUMBER, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. ERWIN P. LACANLALE DEAN, CDED	RECOMMENDING APPROVAL: ATTY. GHEROLD C. BENITEZ VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: SEPTEMBER 2025	SHEET NO: P-5 PAGE NO: 44/59

OCT 03 2025

NOTE:

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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
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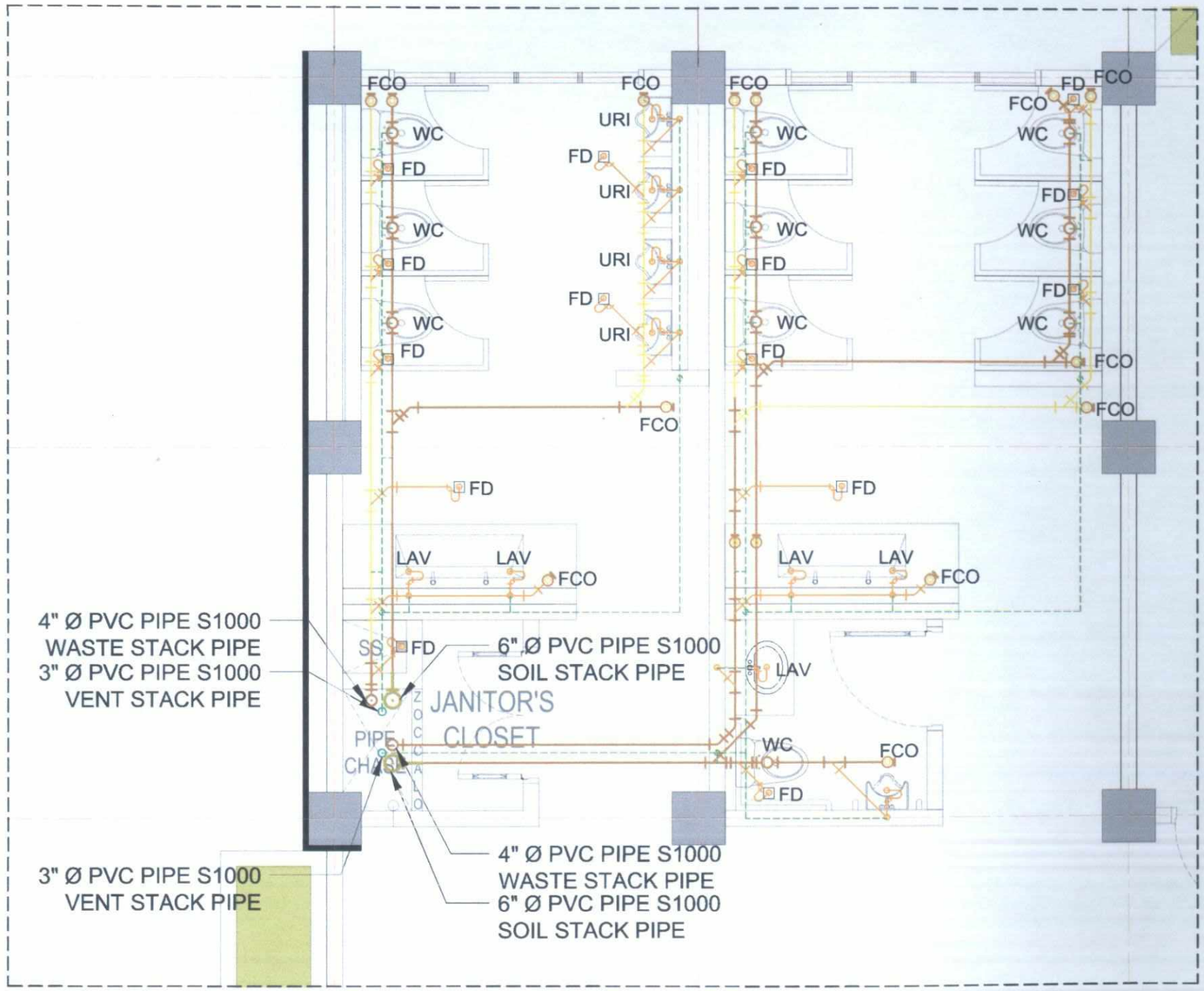
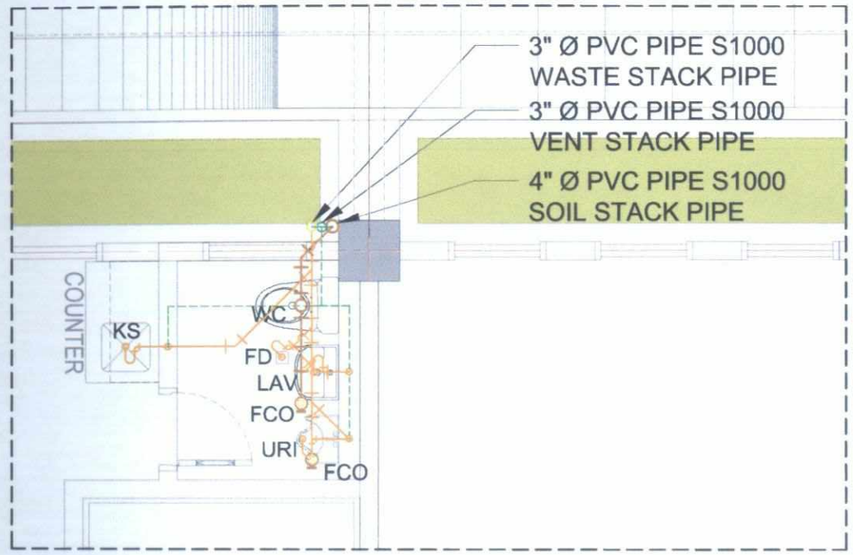


BLOW - UP "J" (COMMON TOILETS)

TYPICAL SECOND - FIFTH FLOOR SANITARY LAYOUT

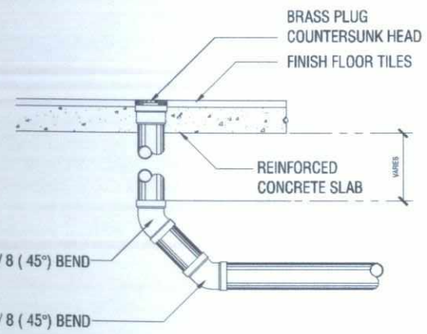
1:50 M



BLOW - UP "K" (COMMON TOILETS)

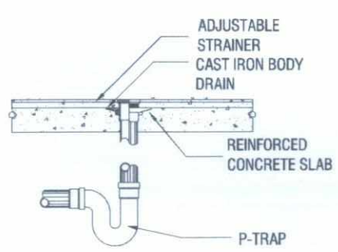
TYPICAL SECOND - FIFTH FLOOR SANITARY LAYOUT

1:50 M



FLOOR CLEAN-OUT DETAIL

NTS.



FLOOR DRAIN DETAIL

NTS.

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

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PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 45/59

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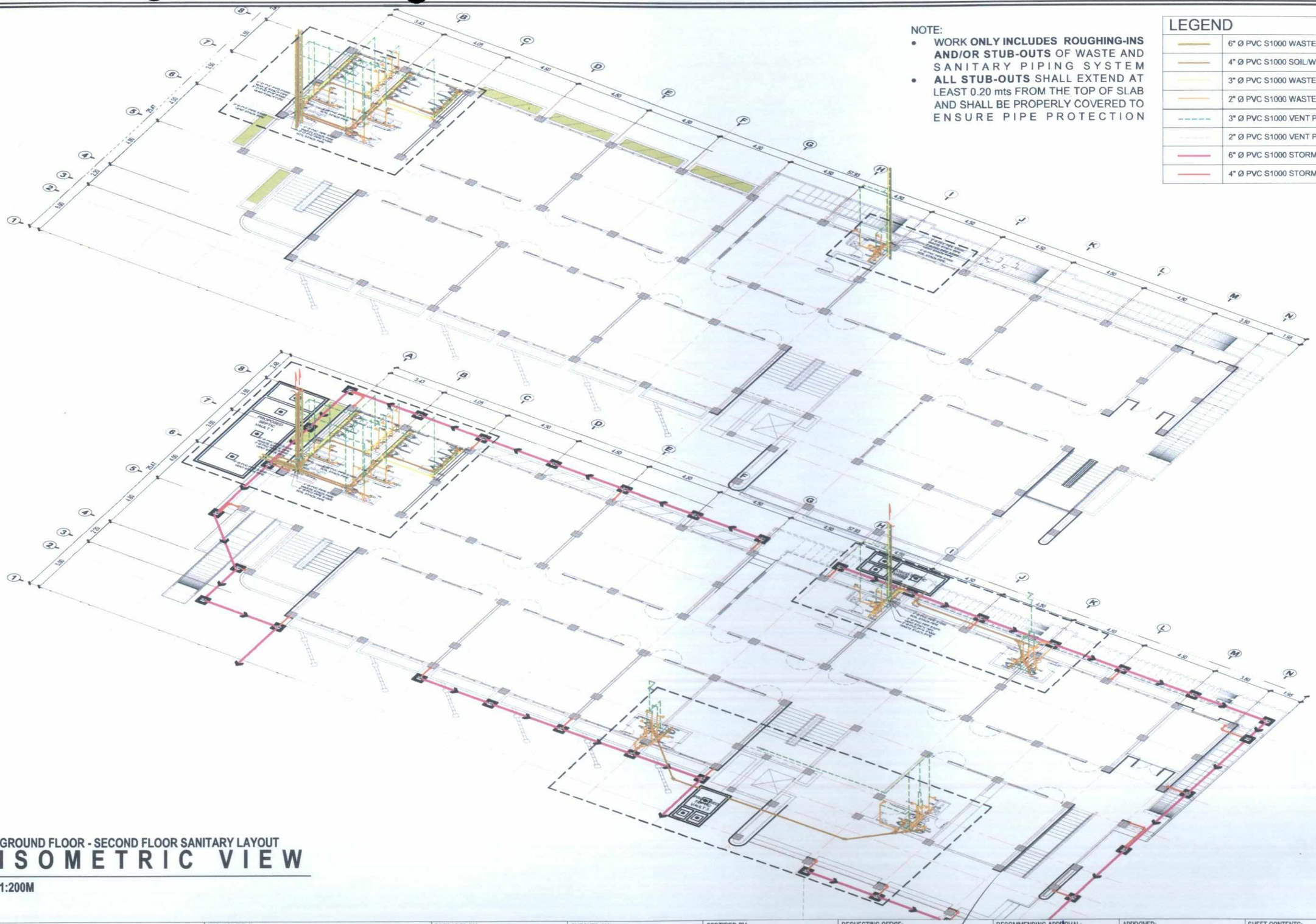

NOTE:

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- **ALL STUB-OUTS** SHALL EXTEND AT LEAST 0.20 mts FROM THE TOP OF SLAB AND SHALL BE PROPERLY COVERED TO ENSURE PIPE PROTECTION

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	6" Ø PVC S1000 WASTE PIPES
	4" Ø PVC S1000 SOIL/WASTE PIPES
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	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

GROUND FLOOR - SECOND FLOOR SANITARY LAYOUT

ISOMETRIC VIEW

1:200M

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

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PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 46/59

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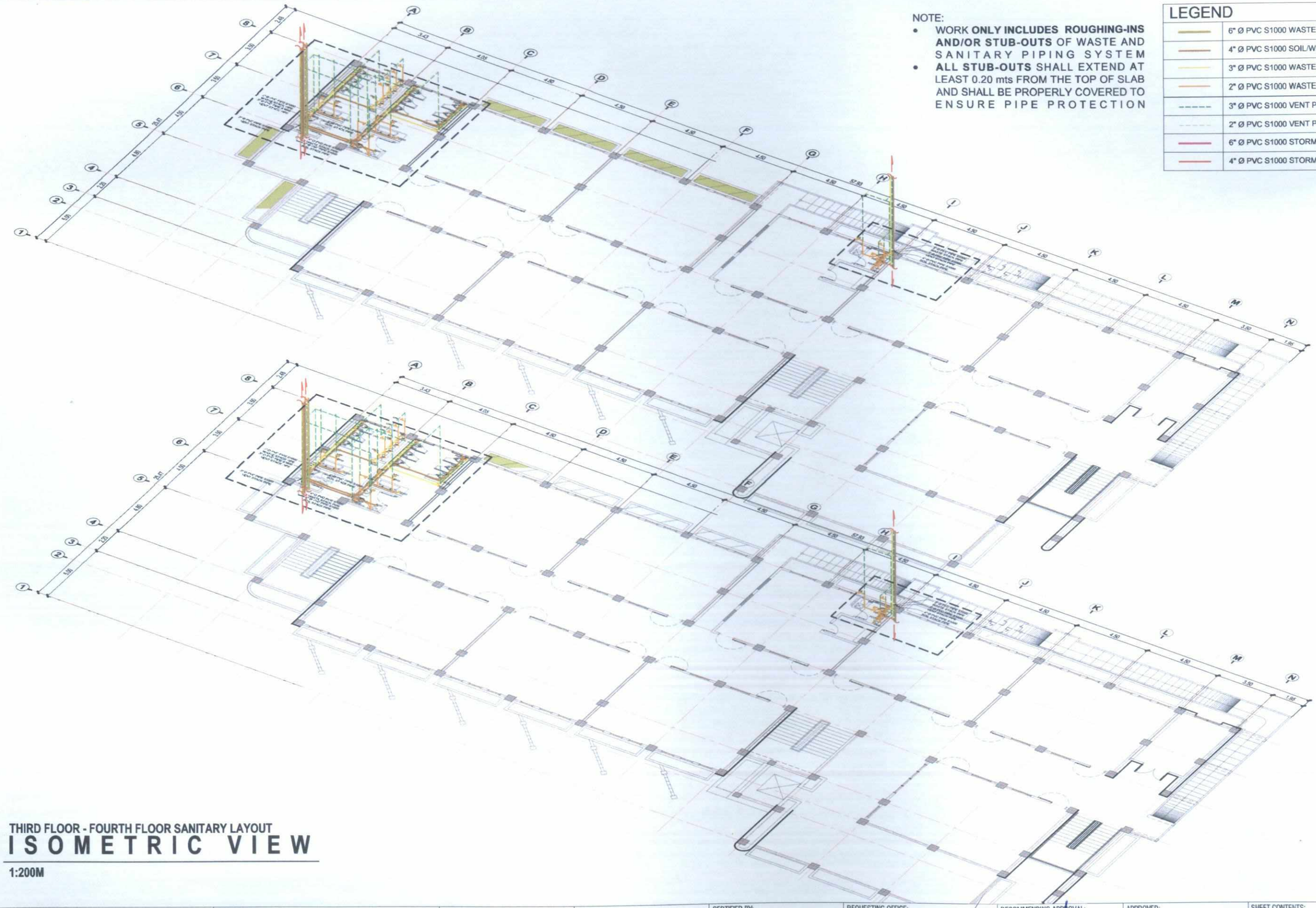

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	3" Ø PVC S1000 VENT PIPES
	2" Ø PVC S1000 VENT PIPES
	6" Ø PVC S1000 STORM DRAIN PIPES
	4" Ø PVC S1000 STORM DRAIN PIPES

THIRD FLOOR - FOURTH FLOOR SANITARY LAYOUT

ISOMETRIC VIEW

1:200M

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

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PROJECT LOCATION:							DATE: SEPTEMBER 2025	PAGE NO: 47/59
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY								

OCT 03 2025

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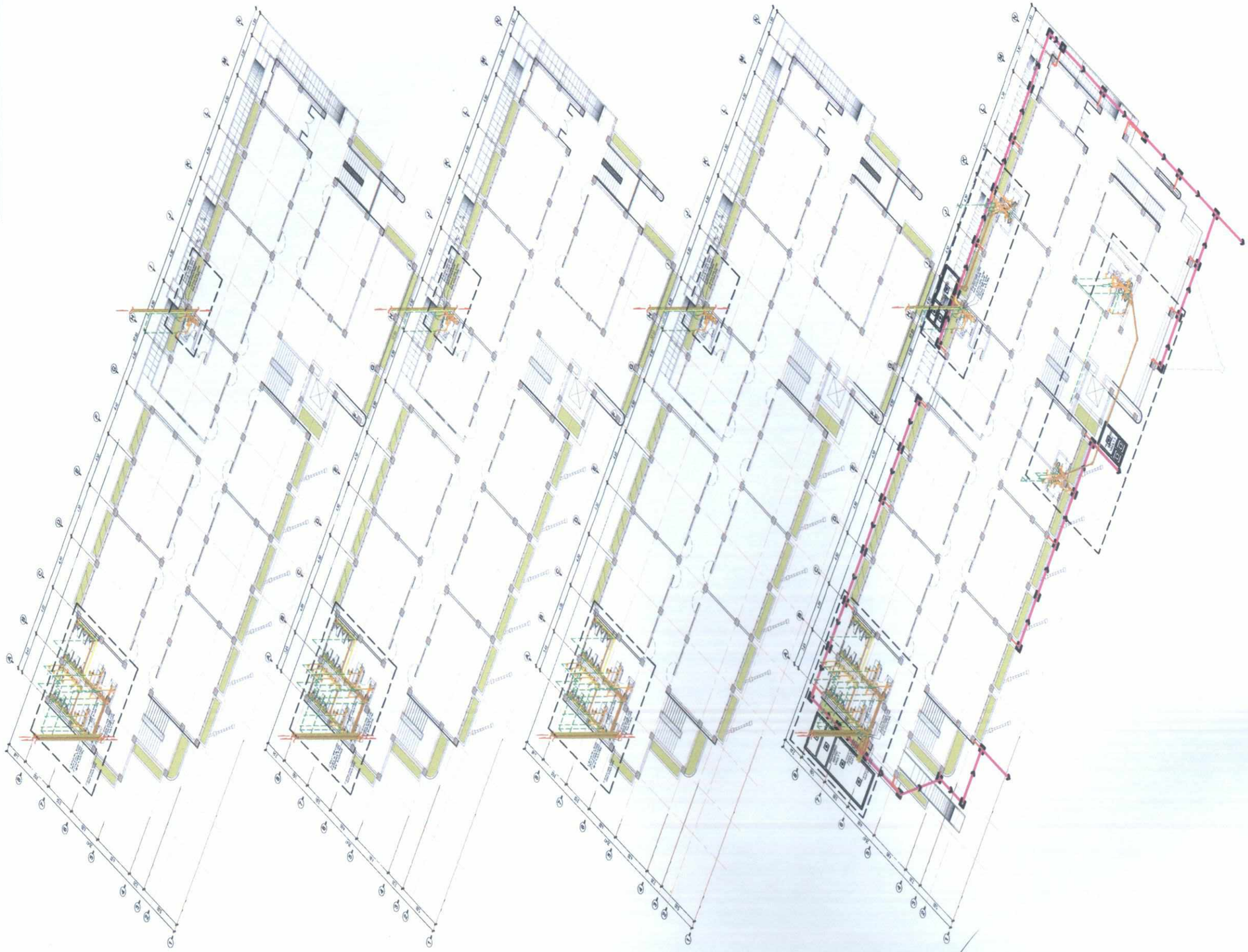

SANITARY LAYOUT
ISOMETRIC VIEW
1:300M

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

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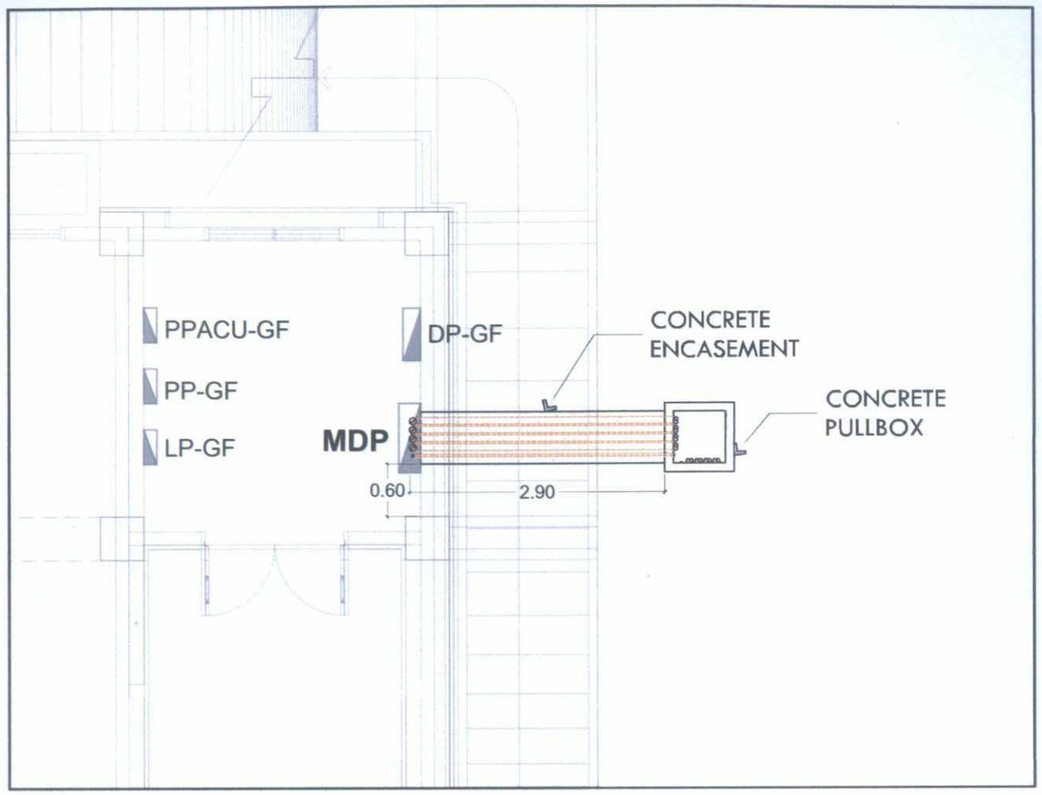
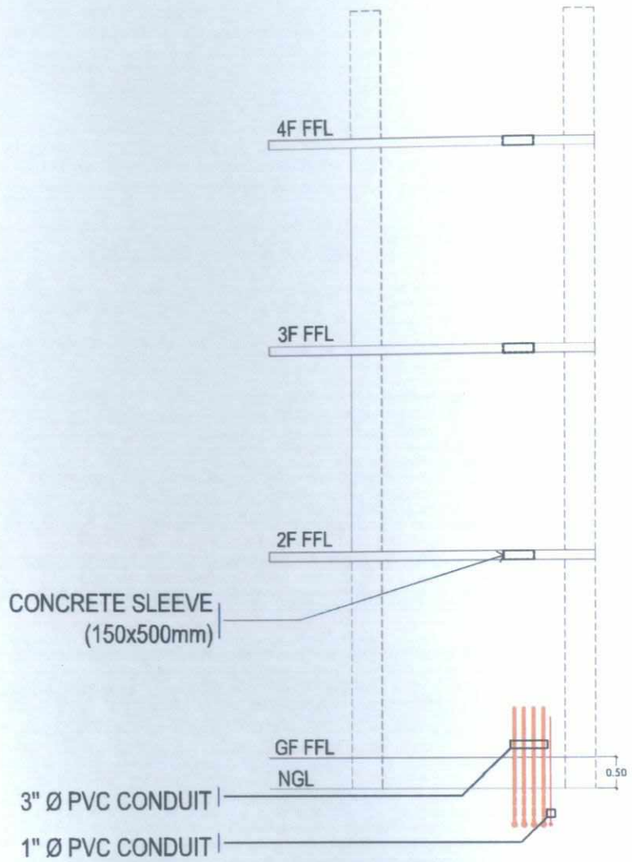
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 48/59

OCT 03 2025



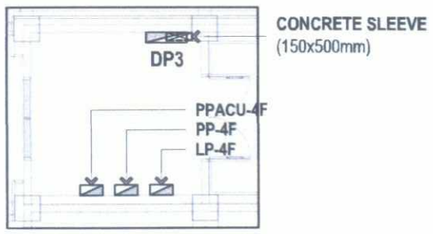
SERVICE ENTRANCE ROUGHING-INS LAYOUT

SCALE: 1:70 MTS

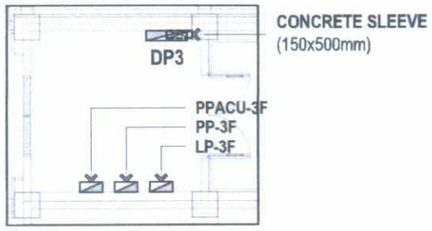


ELECTRICAL PIPE CHASE DETAIL

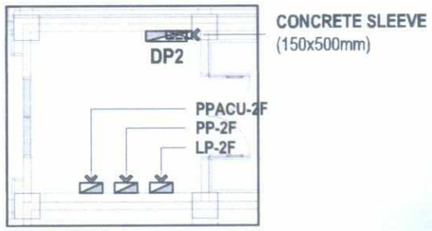
NTS



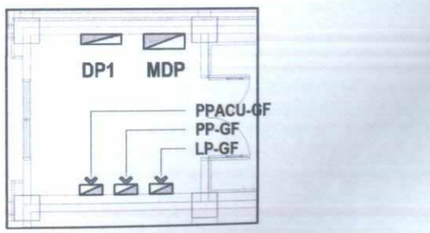
ELECTRICAL ROOM
(FOURTH FLOOR)



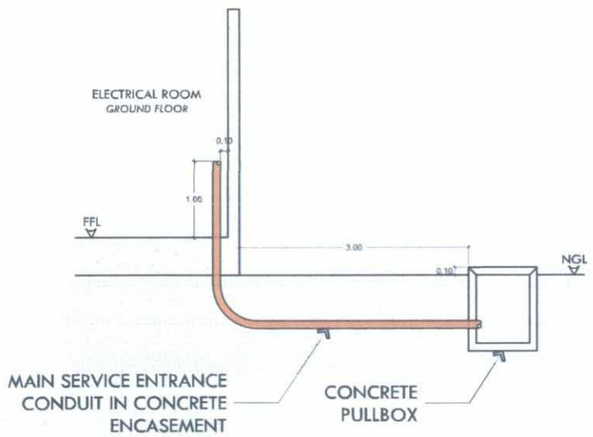
ELECTRICAL ROOM
(THIRD FLOOR)



ELECTRICAL ROOM
(SECOND FLOOR)

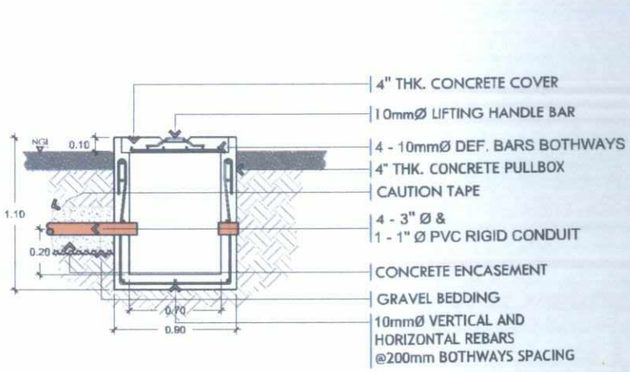


ELECTRICAL ROOM
(GROUND FLOOR)



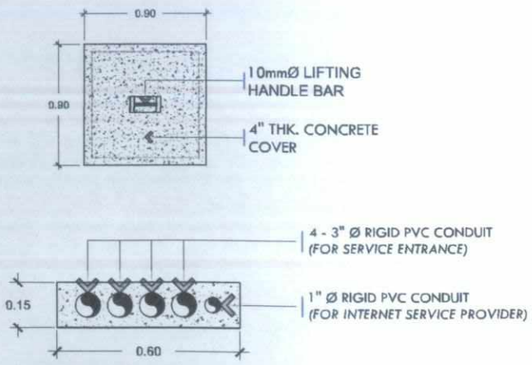
MAIN FEEDER LAYOUT

NTS



CONCRETE PULLBOX DETAIL

NTS



CONCRETE ENCASEMENT

NTS

IMPORTANT NOTE:

- PANELBOARDS ARE FOR REFERENCE ONLY AND NOT PART OF THE CONTRACT.

TARLAC STATE UNIVERSITY
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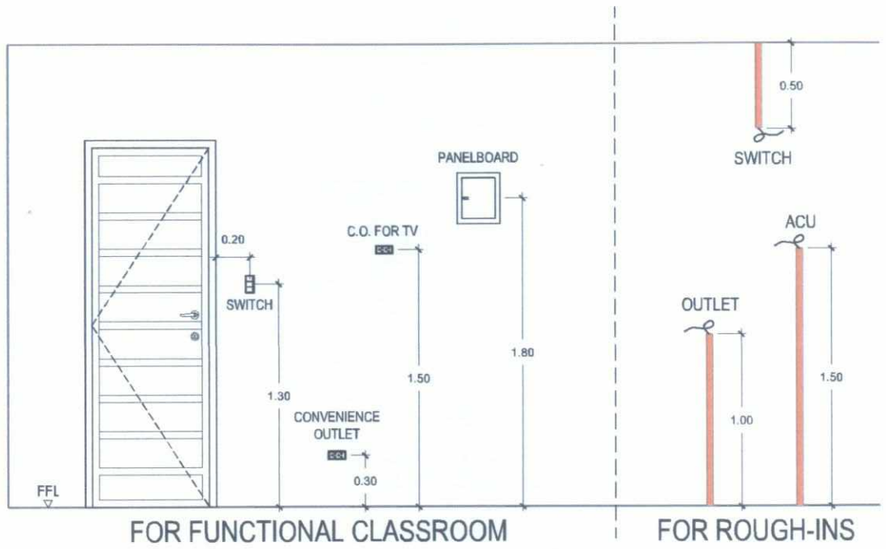
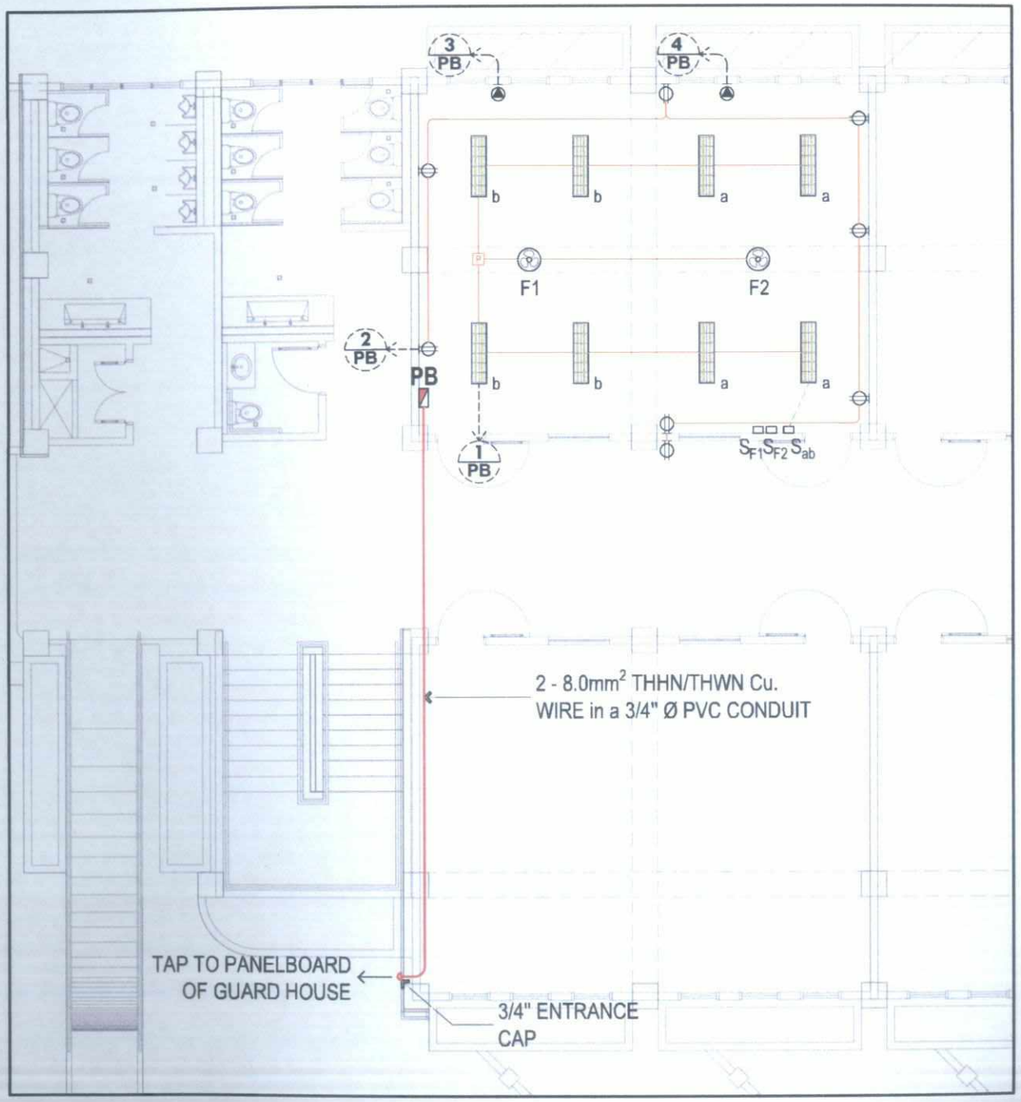
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 49/59

GENERAL NOTES

1. ALL ELECTRICAL INSTALLATION HEREIN SHALL BE DONE IN ACCORDANCE WITH PROVISIONS OF THE LATEST EDITION OF 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 REQUIREMENTS OF THE POWER COMPANY CONCERNED.
2. ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTED BY EXPERIENCED MEN UNDER THE SUPERVISION OF A DULY LICENSED REGISTERED ELECTRICAL ENGINEER OR PROFESSIONAL ELECTRICAL ENGINEER.
3. MATERIALS THAT PROVIDES SUPPORT, ADDED SAFETY, AND ACCESS, SUCH AS PULL BOXES, JUNCTION BOXES, BENDS AND OTHER FITTINGS SHALL BE PROVIDED EVEN IF NOT EXPLICITLY STATED IN THE PLAN.
4. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
5. ANY DISCREPANCY IN LOCATION AND RATING OF ELECTRICAL EQUIPMENT/ITEM SHALL BE VERIFIED WITH THE ENGINEER AND CHANGES SHALL BE MADE ACCORDINGLY.
6. PVC ROUGH-INS SHALL EXTEND A MINIMUM OF 1 METER ABOVE THE FLOOR SLAB, EACH PROVIDED WITH A GI WIRE, AND ALL OPENINGS AROUND THE PVC SHALL BE PROPERLY SEALED.



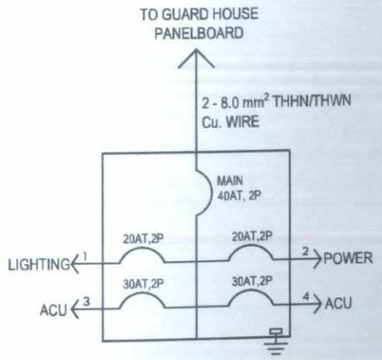
MOUNTING HEIGHT DETAILS



LOCATION:		ACADEMIC BLDG. GROUND FLOOR			SYSTEM VOLTAGE:			230V, 1-PHASE, 60Hz		
FED FROM:		GUARD HOUSE			MAIN FEEDER SIZE:			2 - 8.0mm² THHN/THWN Cu. WIRE IN A 3/4" ø CONDUIT		
MAIN CIRCUIT BREAKER:		40AT, MCCB, 2P			ENCLOSURE:			NEMA-1 (SURFACE MOUNTED)		
CIRCUIT NUMBER	DESCRIPTION	NO. OF OUTLET	VA	A	CIRCUIT BREAKER AT	CIRCUIT BREAKER AF	CIRCUIT BREAKER POLE	CONDCUTOR (mm²)	GROUND (mm²)	TYPE OF WIRE	CONDUIT
1	LIGHTING OUTLET	10	438	1.90	20	100	2	2 - 3.5	1 - 3.5	THHN/THWN	1/2" ø PVC
2	POWER OUTLET	8	1440	6.26	20	100	2	2 - 3.5	1 - 3.5	THHN/THWN	1/2" ø PVC
3	2.5HP WINDOW TYPE ACU	1	3450	15.0	30	100	2	2 - 5.5	1 - 3.5	THHN/THWN	3/4" ø PVC
4	2.5HP WINDOW TYPE ACU	1	3450	15.0	30	100	2	2 - 5.5	1 - 3.5	THHN/THWN	3/4" ø PVC

TOTAL CONNECTED LOAD (VA):	8778	TOTAL LOAD CURRENT (A):	41.92
DEMAND FACTOR:	80%	TOTAL DEMAND LOAD CURRENT (A):	33.53

SCHEDULE OF LOADS



DETAILS OF PANELBOARD

CLASSROOM ELECTRICAL LAYOUT

GROUND FLOOR

SCALE 1 : 100 MTS

IMPORTANT NOTE:

- **3/4" Ø PVC CONDUIT** SHALL BE USED FOR LIGHTING. (EXPOSED PIPING ON SLAB)
- **3/4" Ø PVC CONDUIT** SHALL BE USED FOR ACU.
- **1/2" Ø PVC CONDUIT** SHALL BE USED FOR POWER.

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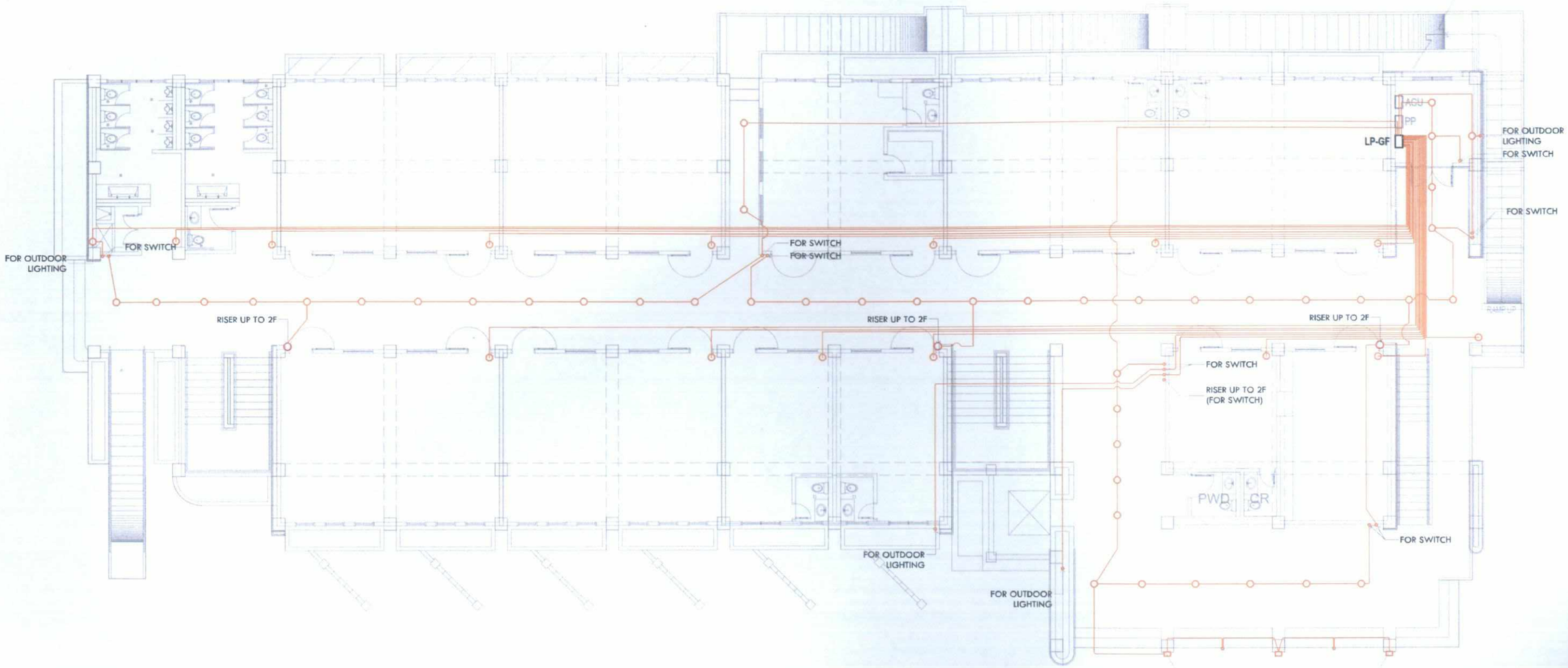
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 50/59



LEGENDS

○	PVC JUNCTION BOX W/ COVER
◦	PVC PIPE STUB OUT
○	RISER UP/DOWN

LIGHTING ROUGHING-INS LAYOUT

GROUND FLOOR

SCALE 1 : 170 MTS

IMPORTANT NOTE:

- **3/4" Ø PVC CONDUIT** SHALL BE USED FOR LIGHTING ROUGH-INS
- EACH STUB-OUT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.

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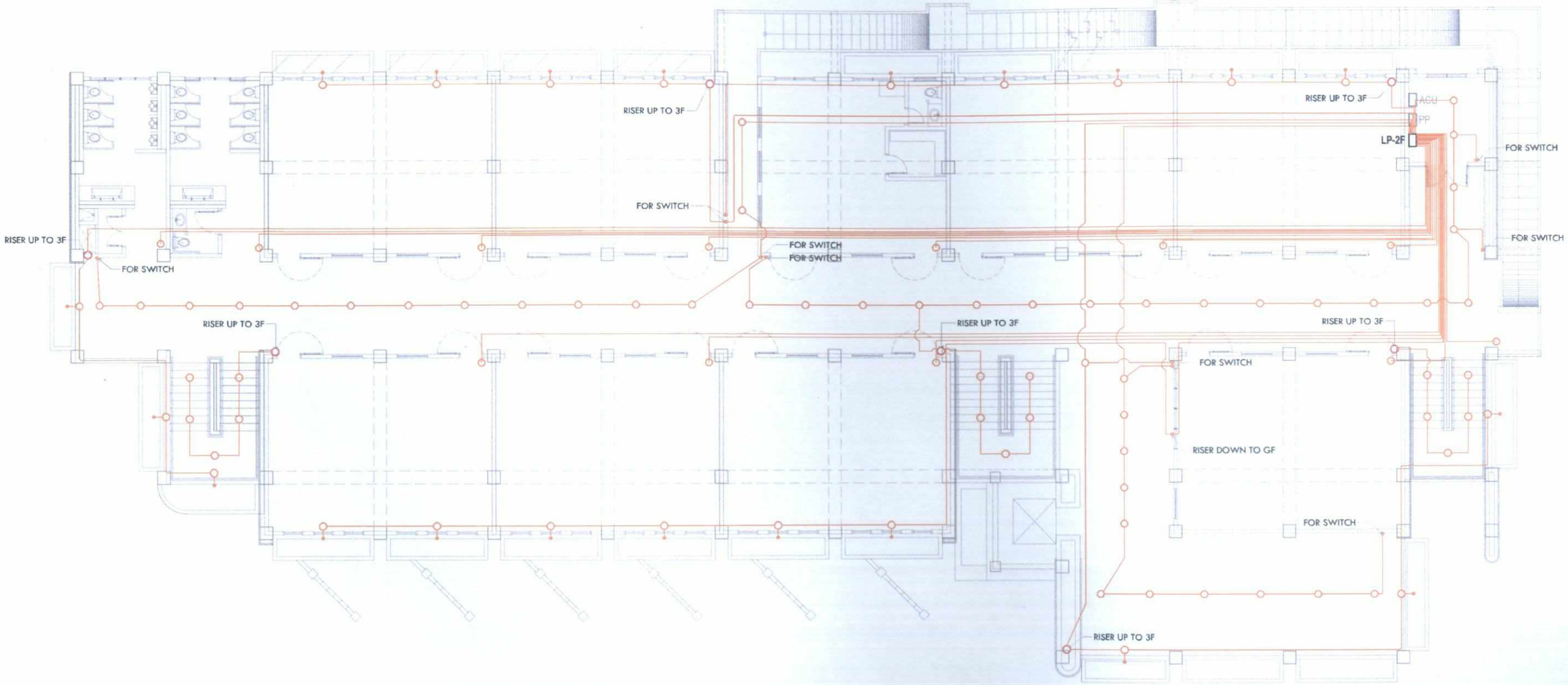
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 51/59



LEGENDS

○	PVC JUNCTION BOX W/ COVER
◦	PVC PIPE STUB OUT
○	RISER UP/DOWN

LIGHTING ROUGHING-INS LAYOUT

SECOND FLOOR

SCALE 1 : 170 MTS

IMPORTANT NOTE:

- **3/4" Ø PVC CONDUIT** SHALL BE USED FOR LIGHTING ROUGH-INS
- EACH STUB-OUT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.

TARLAC STATE UNIVERSITY
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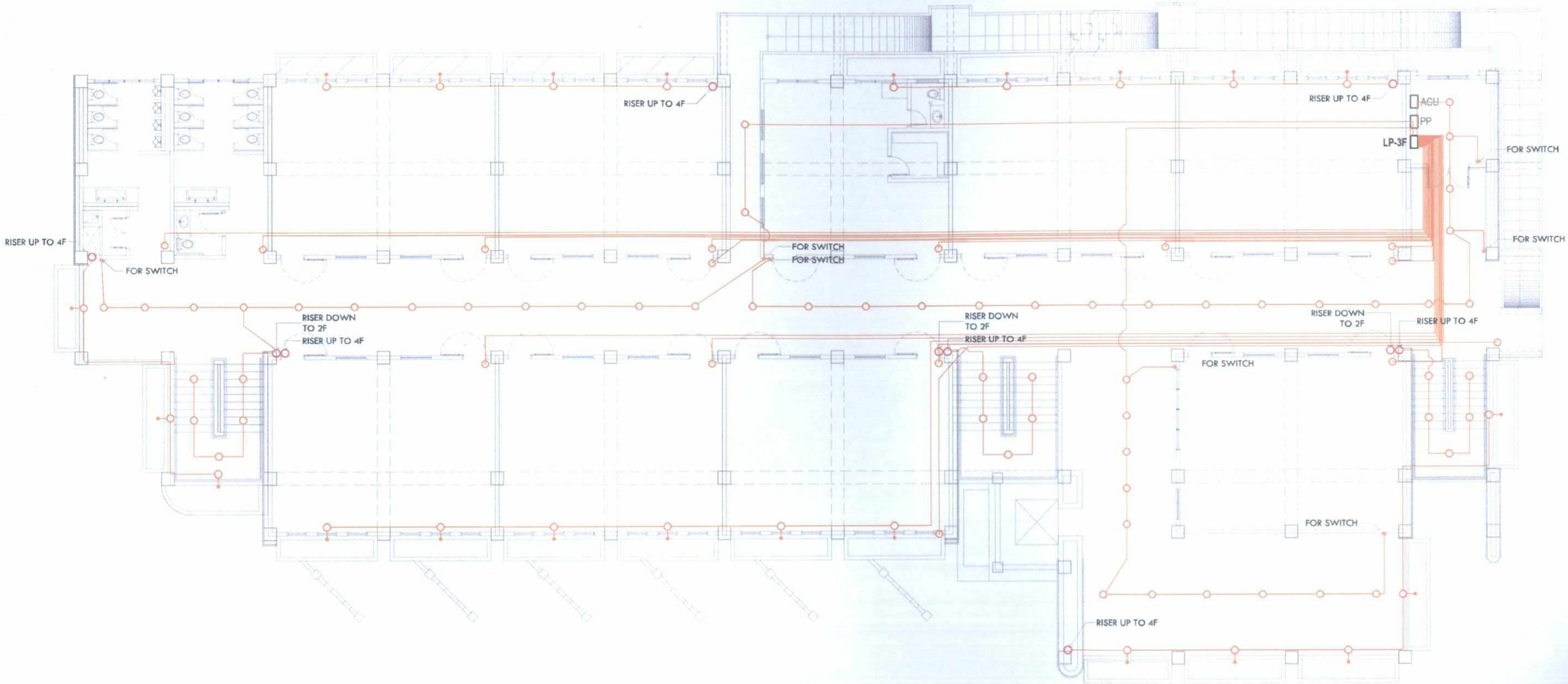
PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE 1)	ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER, OFDM	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ERWIN B. LAGANLALE DEAN, COED	ATTY. GHEROLD C. BENITEZ VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	E - 4
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 52/59



LEGENDS

○	PVC JUNCTION BOX W/ COVER
○	PVC PIPE STUB OUT
○	RISER UP/DOWN

LIGHTING ROUGHING-INS LAYOUT

THIRD FLOOR

SCALE 1 : 170 MTS

IMPORTANT NOTE:

- **3/4" Ø PVC CONDUIT** SHALL BE USED FOR LIGHTING ROUGH-INS
- EACH STUB-OUT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.

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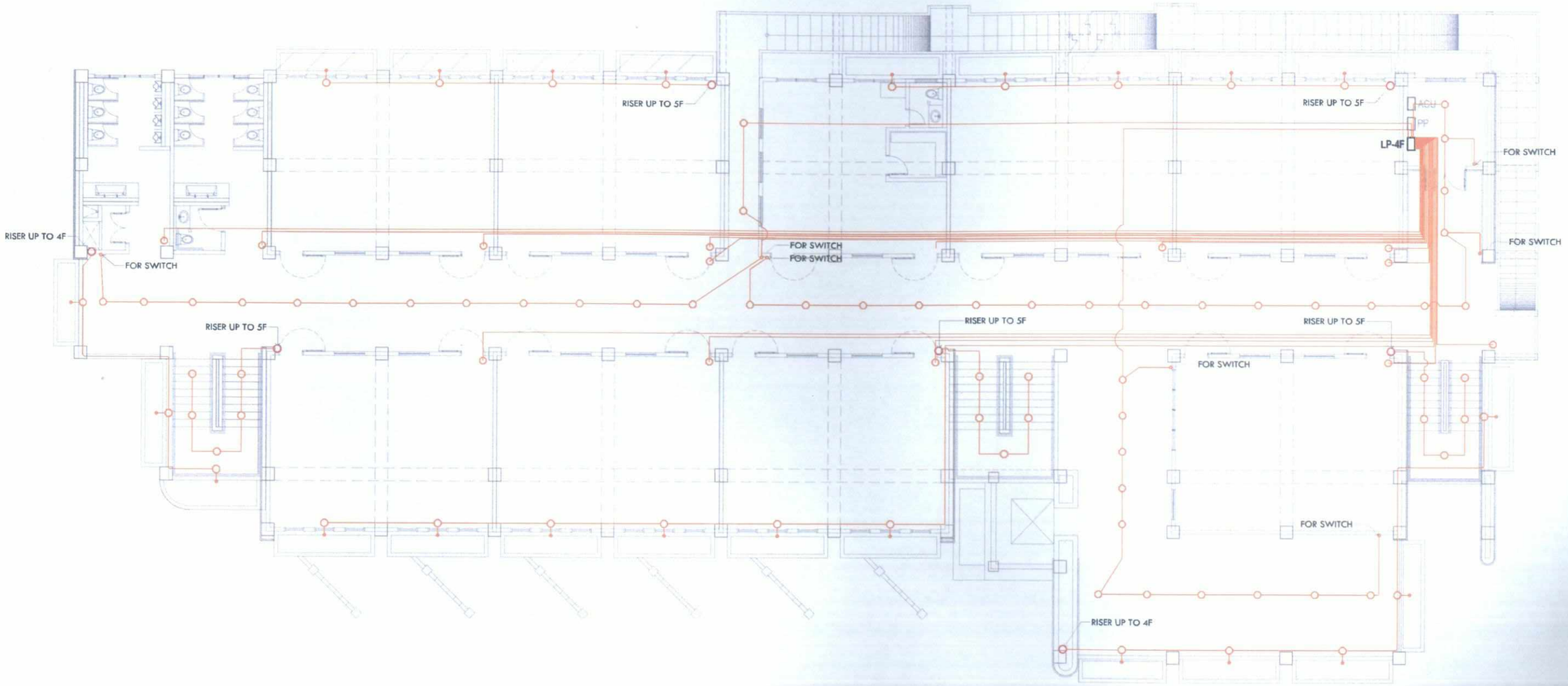

LEGENDS

○	PVC JUNCTION BOX W/ COVER
◦	PVC PIPE STUB OUT
○	RISER UP/DOWN

LIGHTING ROUGHING-INS LAYOUT

FOURTH FLOOR

SCALE 1 : 170 MTS

IMPORTANT NOTE:

- **3/4" Ø PVC CONDUIT** SHALL BE USED FOR LIGHTING ROUGH-INS
- EACH STUB-OUT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.

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Facilities Development and Management Office
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PROJECT TITLE: CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE 1)	PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD, ELECTRICAL ENGINEER, OFDM	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. ERWIN A. MACANLALE, DEAN, COED	RECOMMENDING APPROVAL: ATTY. GHEROLD C. BENITEZ, VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: E - 6
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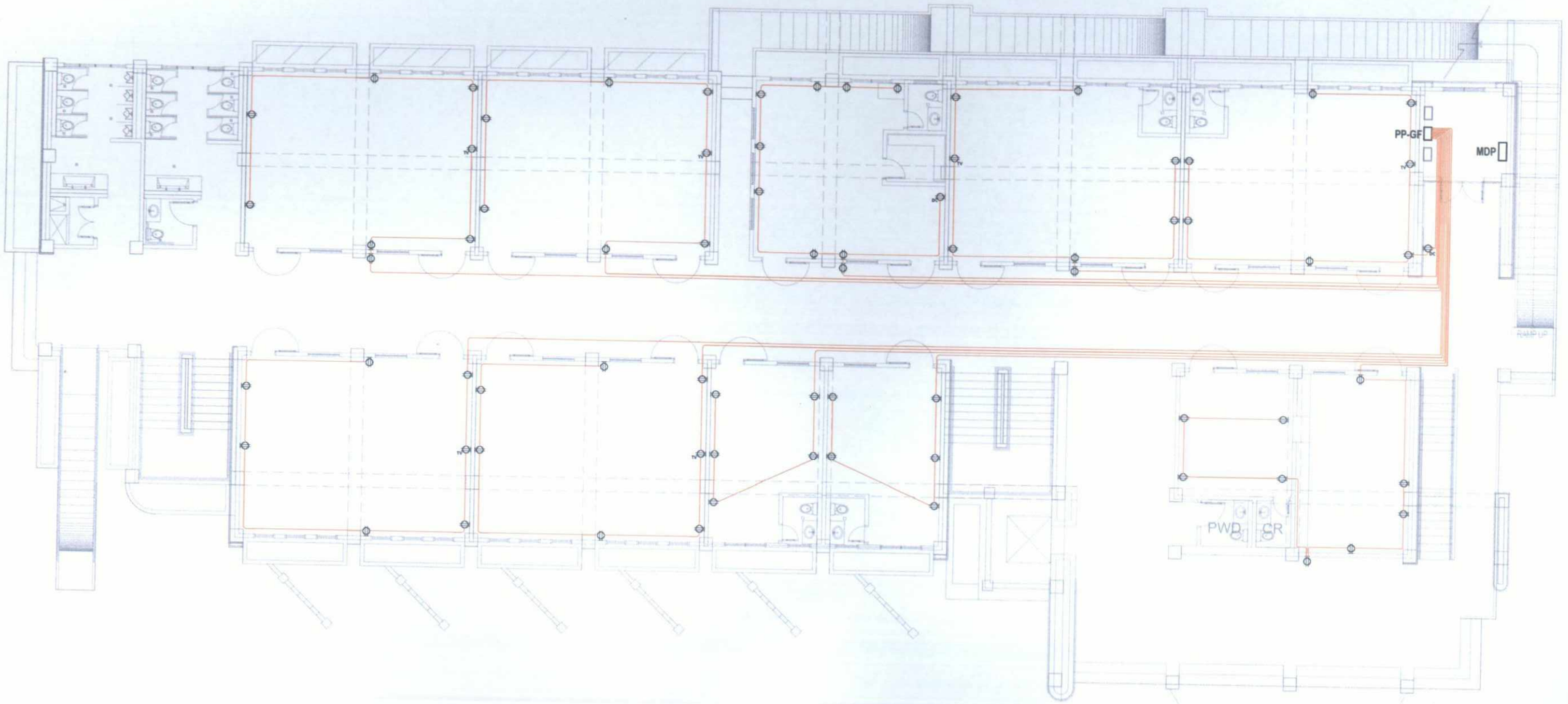

LEGENDS

⌀	PVC STUB-OUT FOR OUTLETS
○	RISER UP/DOWN

POWER OUTLET ROUGHING-INS LAYOUT

GROUND FLOOR

SCALE 1 : 170 MTS

IMPORTANT NOTE:

- **1/2" Ø PVC CONDUIT** SHALL BE USED FOR POWER OUTLET ROUGH-INS.
- PVC ROUGH-INS SHALL EXTEND A MINIMUM OF 1 METER ABOVE THE FLOOR SLAB.
- EACH STUB-OUT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.

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PROJECT TITLE: CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE 1)	PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD, ELECTRICAL ENGINEER, OFDM	CHECKED BY: AR. CHERRY L. EABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. ERWIN [illegible], DEAN, COED	RECOMMENDING APPROVAL: ATTY. GHEROLD C. BENITEZ, VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: E - 7
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LEGENDS

⌽	PVC STUB-OUT FOR OUTLETS
○	RISER UP/DOWN

POWER OUTLET ROUGHING-INS LAYOUT

SECOND FLOOR

SCALE 1 : 170 MTS

IMPORTANT NOTE:

- **1/2" Ø PVC CONDUIT** SHALL BE USED FOR POWER OUTLET ROUGH-INS.
- PVC ROUGH-INS SHALL EXTEND A MINIMUM OF 1 METER ABOVE THE FLOOR SLAB.
- EACH STUB-OUT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.

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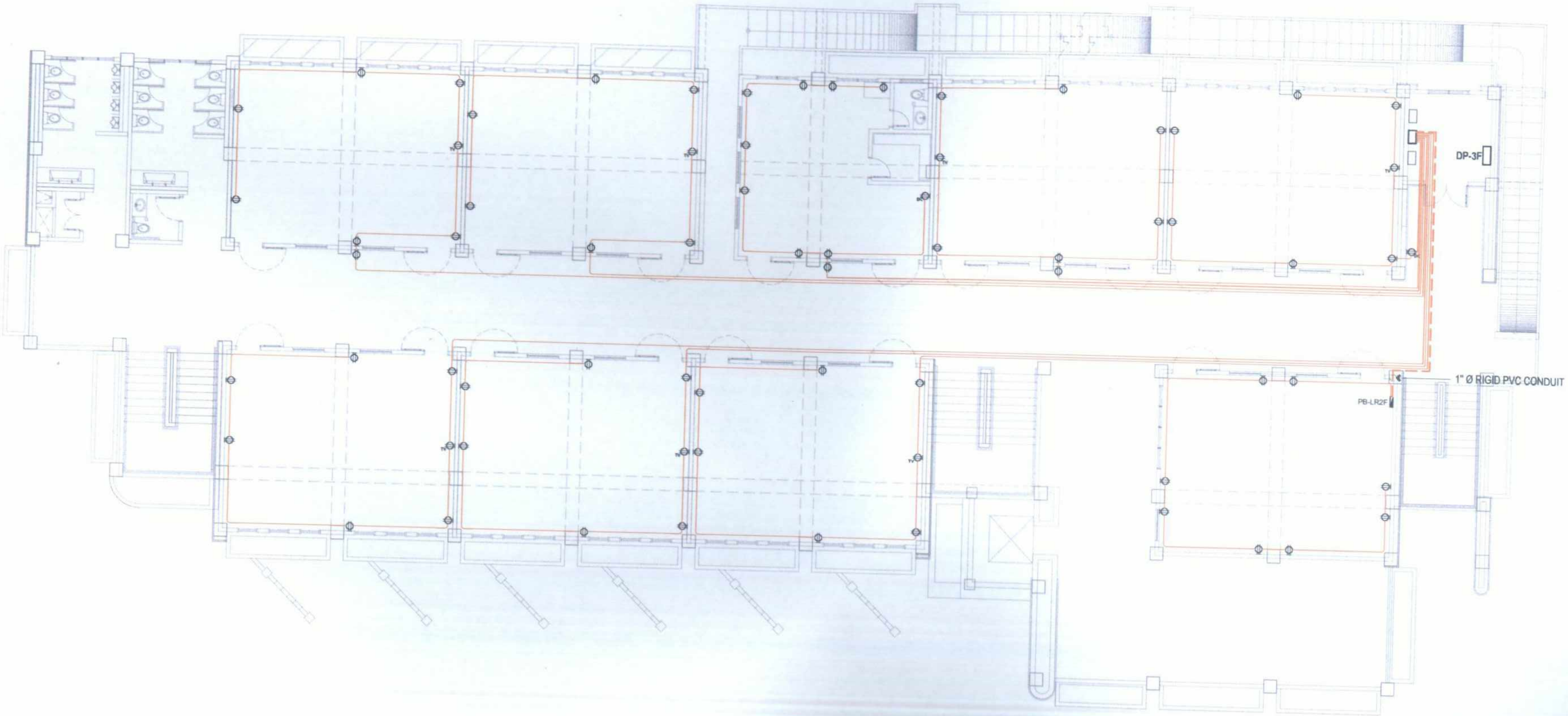

LEGENDS

Symbol	Description
⏀	PVC STUB-OUT FOR OUTLETS
○	RISER UP/DOWN

POWER OUTLET ROUGHING-INS LAYOUT

THIRD FLOOR

SCALE 1 : 170 MTS

IMPORTANT NOTE:

- **1/2" Ø PVC CONDUIT** SHALL BE USED FOR POWER OUTLET ROUGH-INS.
- PVC ROUGH-INS SHALL EXTEND A MINIMUM OF 1 METER ABOVE THE FLOOR SLAB.
- EACH STUB-OUT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.

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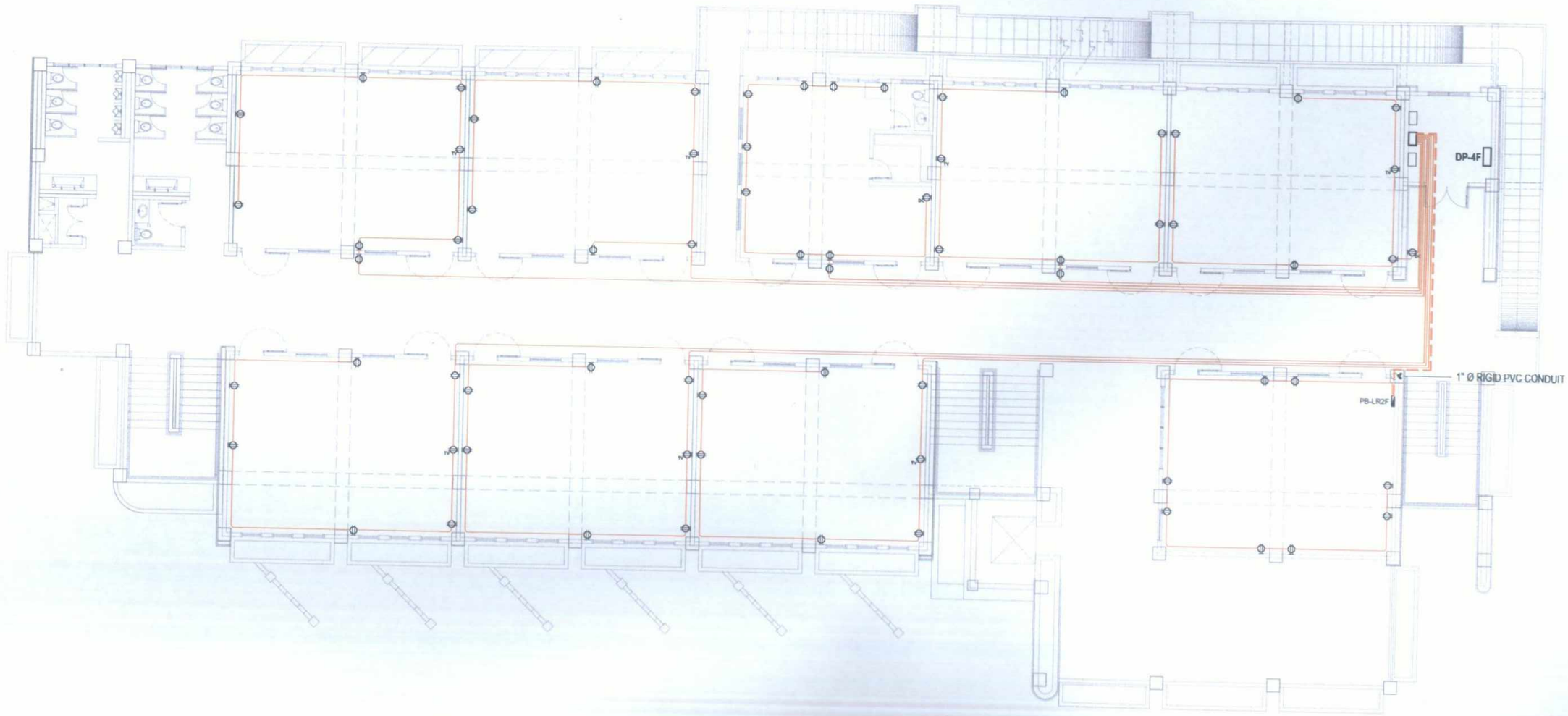
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: SEPTEMBER 2025	PAGE NO: 57/59



LEGENDS

⌀	PVC STUB-OUT FOR OUTLETS
○	RISER UP/DOWN

POWER OUTLET ROUGHING-INS LAYOUT

FOURTH FLOOR

SCALE 1 : 170 MTS

IMPORTANT NOTE:

- **1/2" Ø PVC CONDUIT** SHALL BE USED FOR POWER OUTLET ROUGH-INS.
- PVC ROUGH-INS SHALL EXTEND A MINIMUM OF 1 METER ABOVE THE FLOOR SLAB.
- EACH STUB-OUT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.

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PROJECT TITLE: CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE 1)	PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD, ELECTRICAL ENGINEER, OFDM	CHECKED BY: AR. CHERRY L. FABIANES, HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB, DIRECTOR, OFDM	REQUESTING OFFICE: DR. ERWIN P. LAGANDALE, DEAN, COED	RECOMMENDING APPROVAL: ATTY. GHEROLD C. BENITEZ, VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO, PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: E - 10
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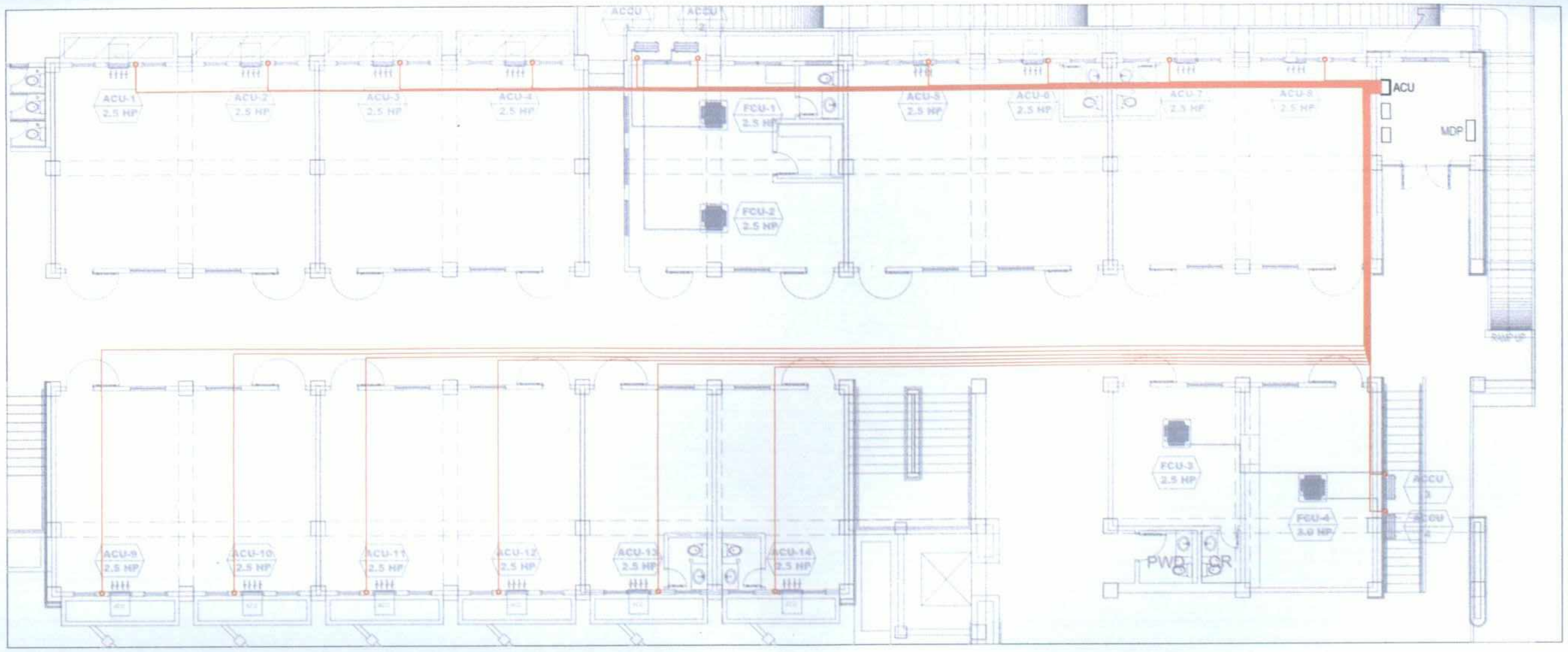
LEGENDS

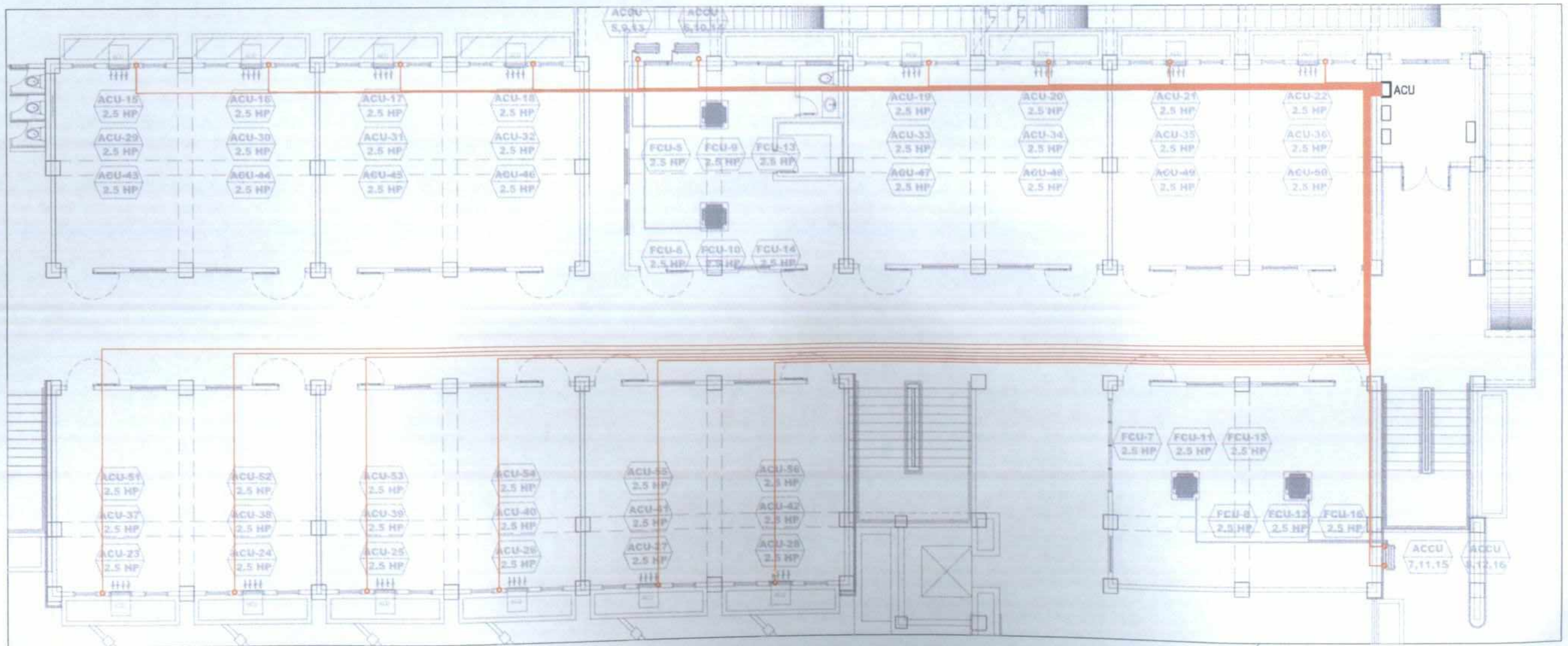
○	PVC PIPE STUB-OUT

NOTE:

- **3/4" Ø PVC CONDUIT** SHALL BE USED FOR ACU OUTLET ROUGH-INS.
- PVC ROUGH-INS SHALL EXTEND A MINIMUM OF 1.5 METER ABOVE THE FLOOR SLAB.
- EACH STUB-OUT SHALL BE INSTALLED WITH A G.I. WIRE INSIDE.
- OPENINGS OF PVC STUB-OUTS SHALL BE PROPERLY SEALED.



ACU ROUGHING-INS LAYOUT
GROUND FLOOR   SCALE 1 : 200 MTS



ACU ROUGHING-INS LAYOUT
SECOND TO FOURTH FLOOR   SCALE 1 : 200 MTS

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF ACADEMIC BUILDING 2 (PHASE 1) PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER, OFDM	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. ERWIN P. AGUILAR	RECOMMENDING APPROVAL: ATTY. GHEROLD C. BENITEZ VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: SEPTEMBER 2025	SHEET NO: E - 11 PAGE NO: 59/59