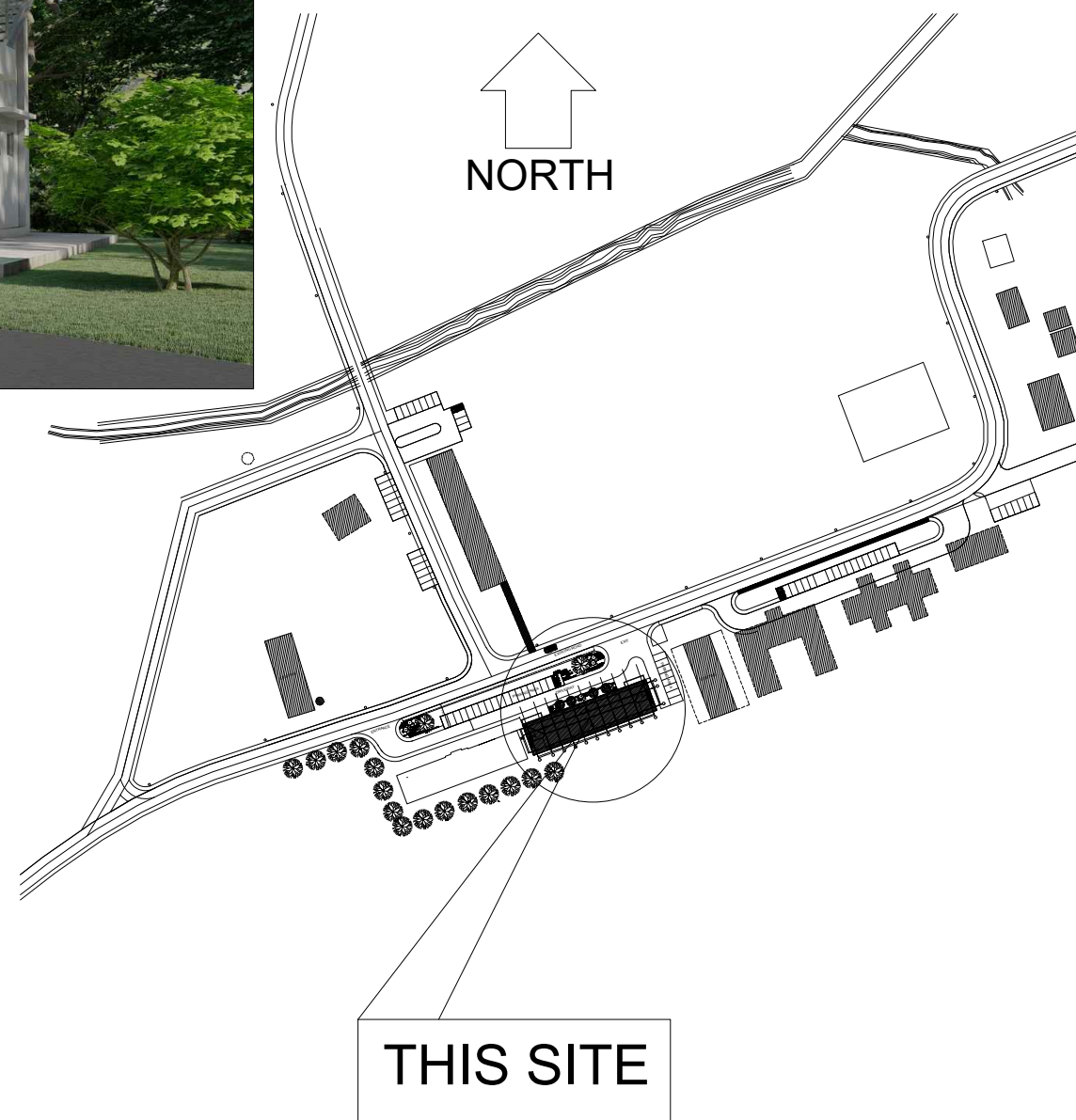
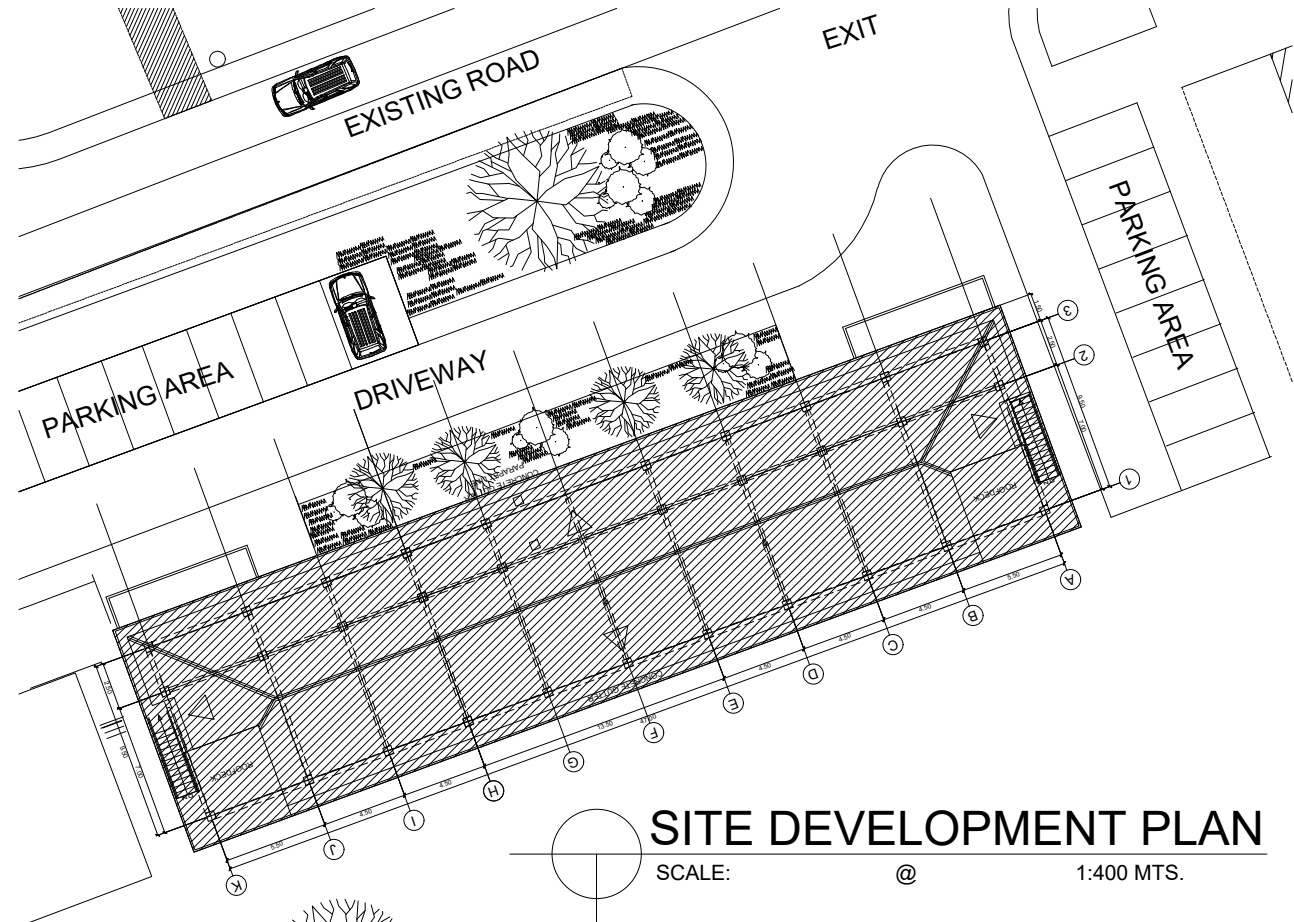




**PERSPECTIVE VIEW**



REPUBLIC OF THE PHILIPPINES  
OFFICE OF THE MUNICIPAL/CITY  
ENGINEER/  
**BUILDING OFFICIAL**

DISTRICT/CITY/MUNICIPALITY

LAND USE & ZONING:

LINE & GRADE:

ARCHITECTURAL:

STRUCTURAL:

ELECTRICAL:

PLUMBING:

FIRE AND SAFETY:

MECHANICAL:

NOTED:

APPROVED:

BUILDING OFFICIAL

MAYOR



PROJECT TITLE :  
**CONSTRUCTION OF 2-STOREY 8-CL  
ACADEMIC BUILDING WITH COMPLETE  
FURNITURE & FIXTURES  
IN DAPIWAK, DUMINGAG CAMPUS**  
LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR

PREPARED BY:  
  
**DOMINGO C. DAPAR, JR.-UAP**  
ARCHITECT

CHECKED AND SUBMITTED BY:  
  
**PANGASIAN B. MAMINTAS, CE**  
COLLEGE ENGINEER

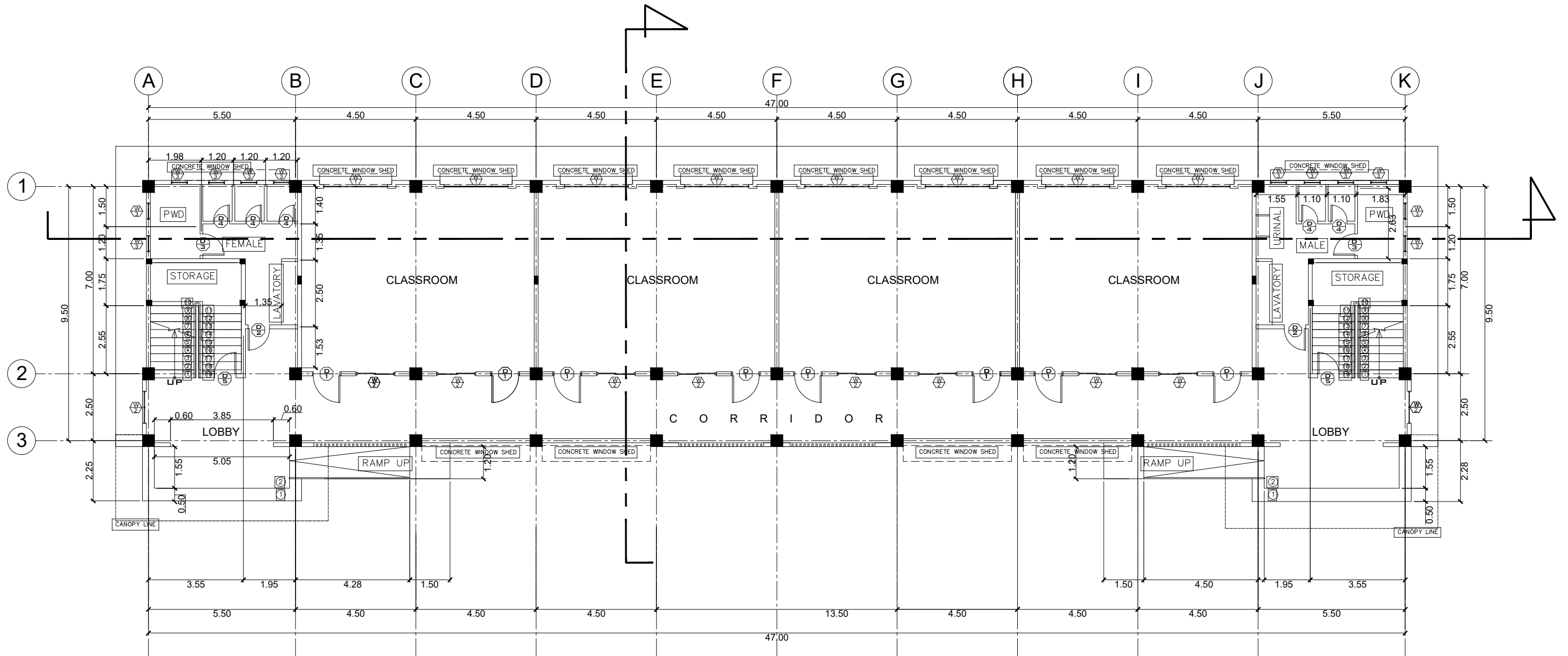
NOTED BY:  
  
**NANETTE D. BILBAO, Ed.D**  
DUMINGAG CAMPUS ADMINISTRATOR

RECOMMENDING APPROVAL:  
  
**RODRIGO P. MILLARES, JR., REE, EnP.**  
PLANNING AND DEVELOPMENT DIRECTOR

APPROVED:  
  
**MARY JOCELYN V. BATTUNG, Ph.D.**  
JHCSD-PRESIDENT

SHEET CONTENT:  
**AS SHOWN**

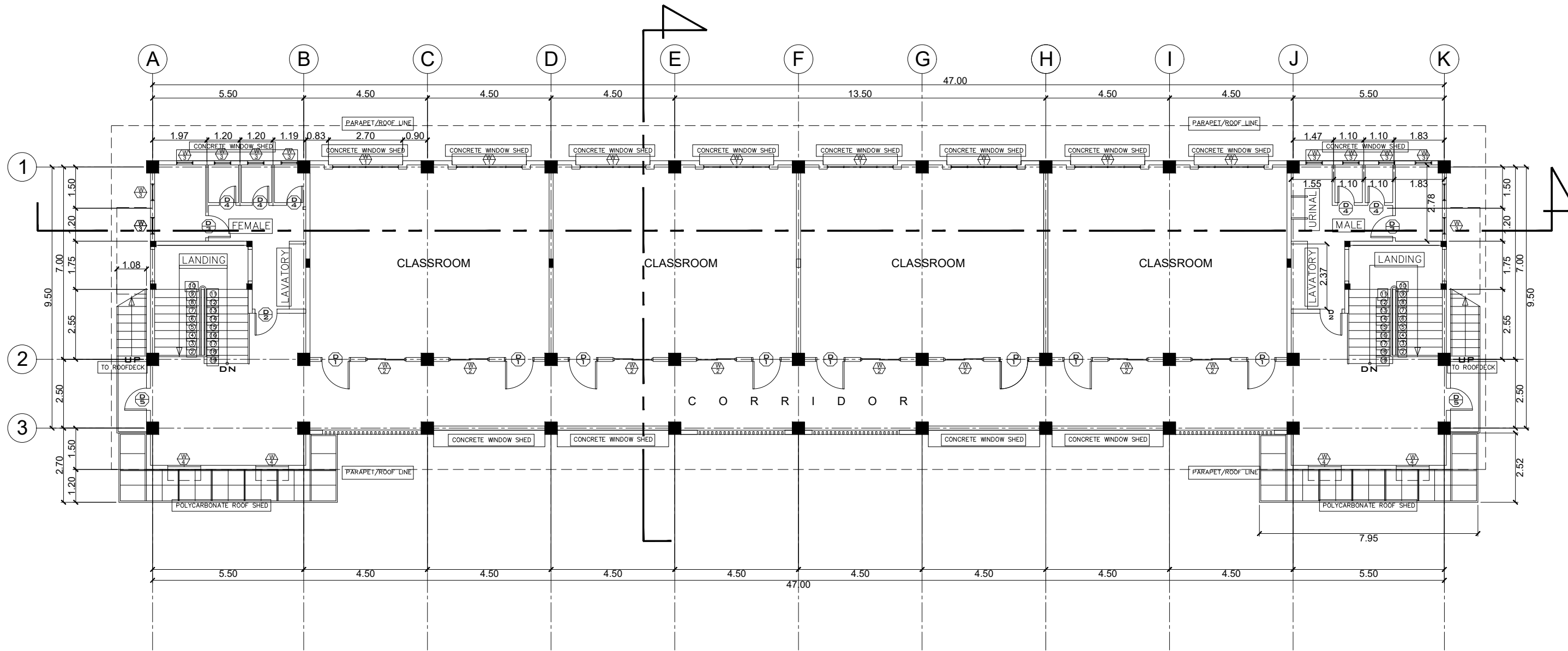
SHEET NO:  
**A-1  
1 12**



**GROUND FLOOR PLAN**  
 SCALE: \_\_\_\_\_ @ \_\_\_\_\_ 1:150 MTS.

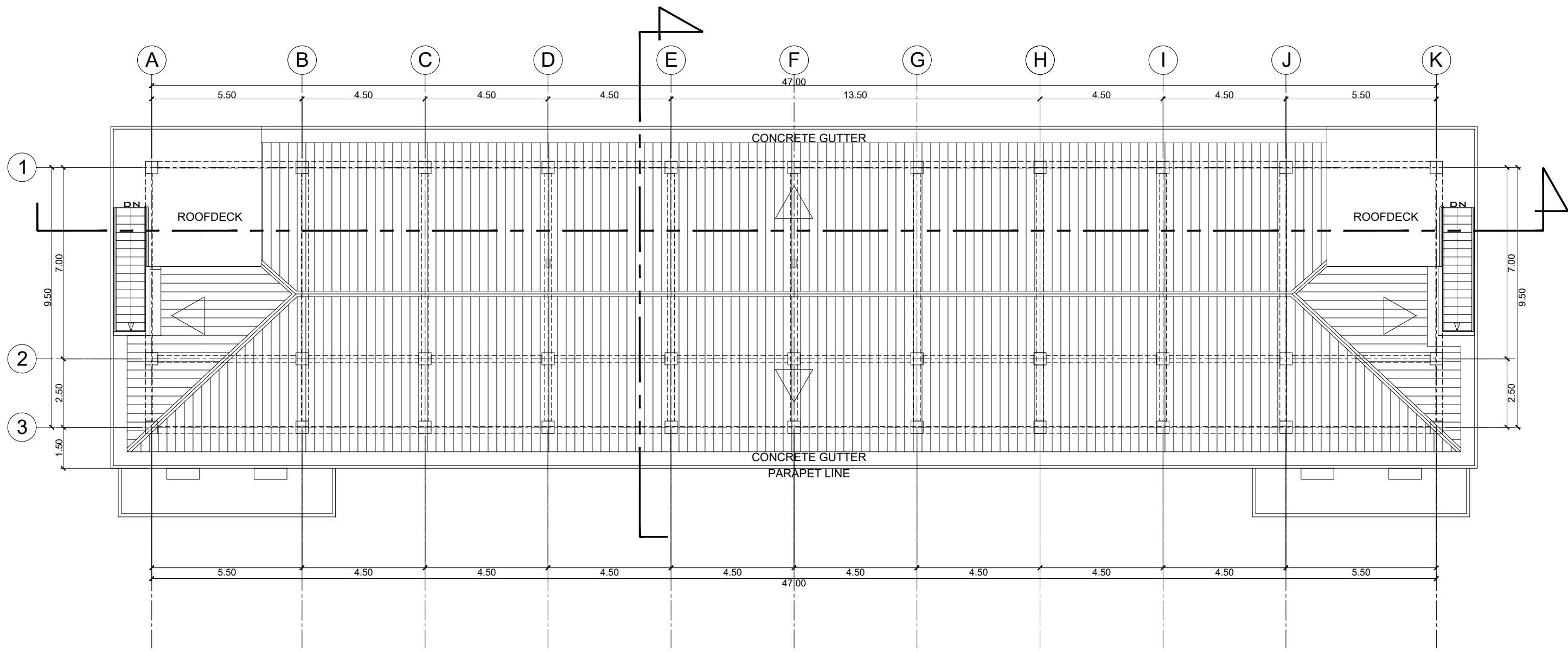


PROJECT TITLE : <b>CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE &amp; FIXTURES</b> IN DAPIWAK, DUMINGAG CAMPUS LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR	PREPARED BY:  <b>DOMINGO C. DAPAR, JR.-UAP</b> ARCHITECT	CHECKED AND SUBMITTED BY:  <b>PANGASIAN B. MAMINTAS, CE</b> COLLEGE ENGINEER	NOTED BY:  <b>NANETTE D. BILBAO, Ed.D</b> DUMINGAG CAMPUS ADMINISTRATOR	RECOMMENDING APPROVAL:  <b>RODRIGO P. MILLARES, JR., REE, EnP.</b> PLANNING AND DEVELOPMENT DIRECTOR	APPROVED:  <b>MARY JOCELYN V. BATTUNG, Ph.D.</b> JHCSO PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;"> <b>A-2</b>  <b>2 12</b> </div> </div>
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**SECOND FLOOR PLAN**  
 SCALE: \_\_\_\_\_ @ \_\_\_\_\_ 1:150 MTS.

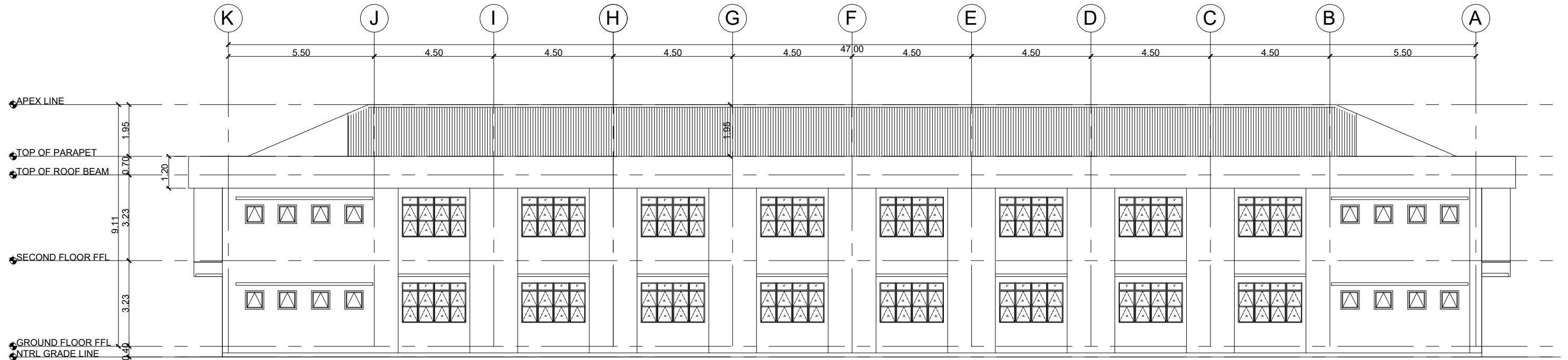
	PROJECT TITLE : <b>CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE &amp; FIXTURES IN DAPIWAK, DUMINGAG CAMPUS</b> <small>LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR</small>	PREPARED BY:  <b>DOMINGO C. DAPAR, JR.-UAP</b> <small>ARCHITECT</small>	CHECKED AND SUBMITTED BY:  <b>PANGASIAN B. MAMINTAS, CE</b> <small>COLLEGE ENGINEER</small>	NOTED BY:  <b>NANETTE J. BILBAO, Ed.D</b> <small>DUMINGAG CAMPUS ADMINISTRATOR</small>	RECOMMENDING APPROVAL:  <b>RODRIGO P. MILLARES, JR., REE, EnP.</b> <small>PLANNING AND DEVELOPMENT DIRECTOR</small>	APPROVED:  <b>MARY JOCELYN V. BATTUNG, Ph.D.</b> <small>JHCSC-PRESIDENT</small>	SHEET CONTENT: <p style="text-align: center; font-weight: bold;">AS SHOWN</p>	SHEET NO.: <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center; font-weight: bold;">A-3 3 12</div> </div>
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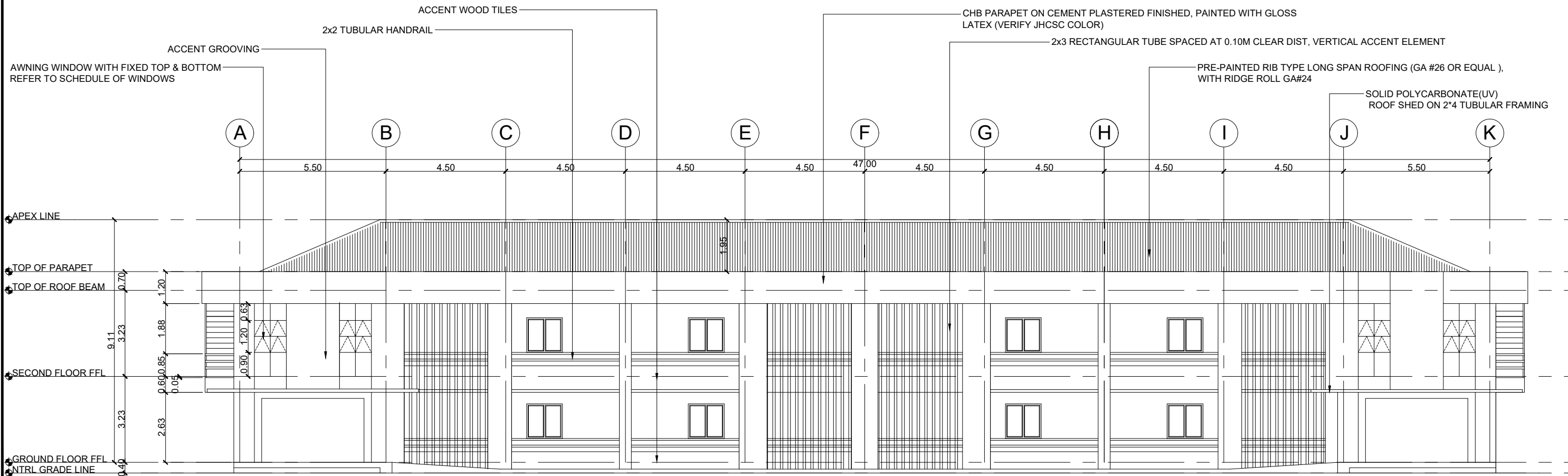
**ROOF PLAN**  
 SCALE: \_\_\_\_\_ @ \_\_\_\_\_ 1:150 MTS.



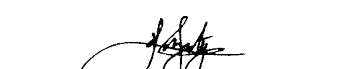





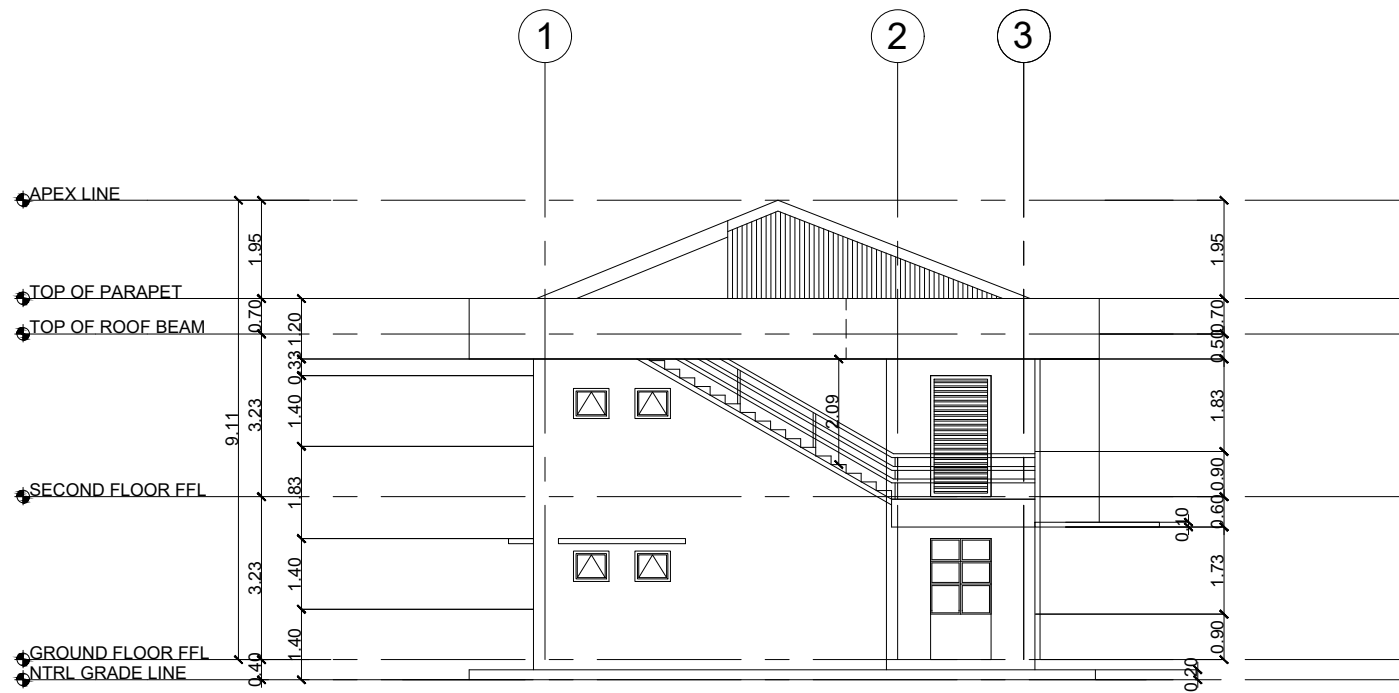
PROJECT TITLE : <b>CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE &amp; FIXTURES</b> IN DAPIWAK, DUMINGAG CAMPUS LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR	PREPARED BY:  <b>DOMINGO C. DAPAR, JR. -UAP</b> ARCHITECT	CHECKED AND SUBMITTED BY:  <b>PANGASIAN B. MAMINTAS, CE</b> COLLEGE ENGINEER	NOTED BY:  <b>NANETTE D. BILBAO, Ed.D</b> DUMINGAG CAMPUS ADMINISTRATOR	RECOMMENDING APPROVAL:  <b>RODRIGO P. MILLARES, JR., REE, EnP.</b> PLANNING AND DEVELOPMENT DIRECTOR	APPROVED:  <b>MARY JOCELYN V. BATTUNG, Ph.D.</b> JHCS-PRESIDENT	SHEET CONTENT: <p style="text-align: center; font-weight: bold;">AS SHOWN</p>	SHEET NO: <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center; font-weight: bold;">A-4</div> <div style="text-align: center; font-weight: bold; margin-top: 5px;">4 12</div> </div>
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**REAR ELEVATION**  
SCALE: @ 1:150 MTS.

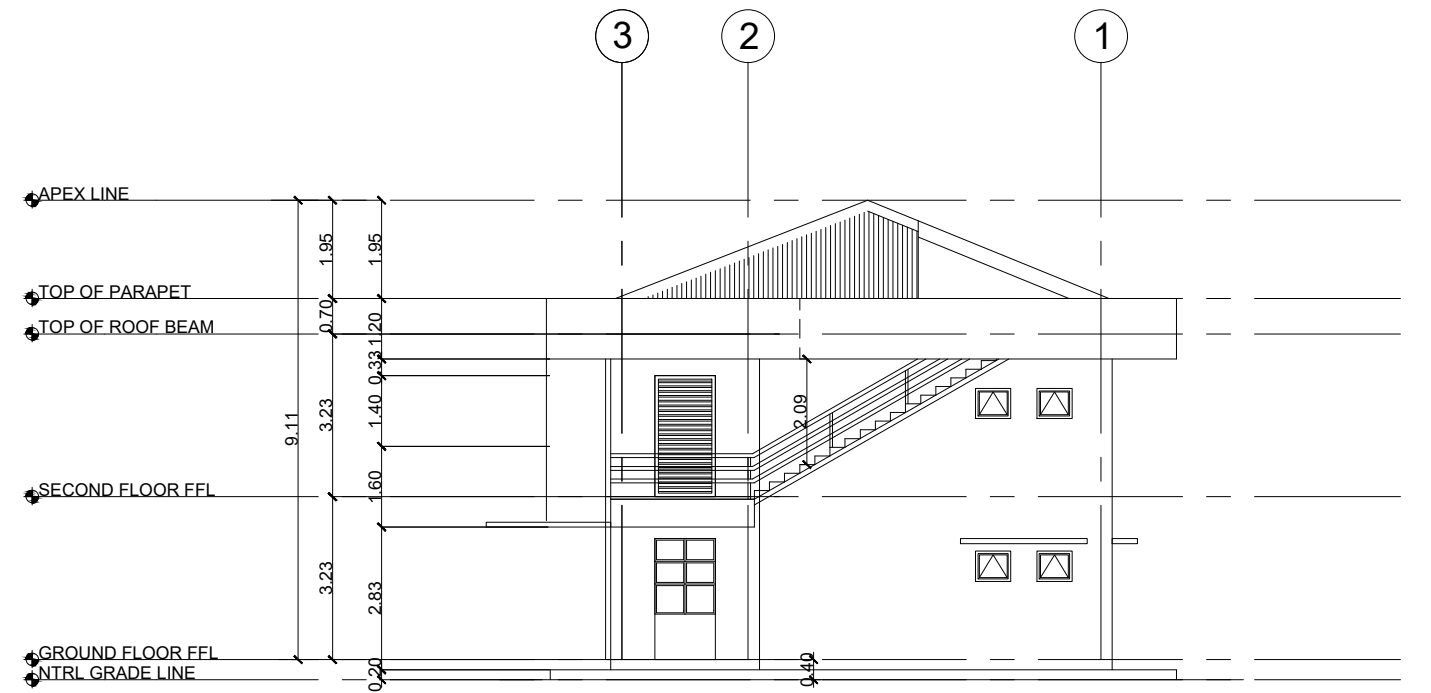


	PROJECT TITLE : <b>CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE &amp; FIXTURES IN DAPIWAK, DUMINGAG CAMPUS</b> LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR	PREPARED BY:  <b>DOMINGO C. DAPAR, JR.-UAP</b> ARCHITECT	CHECKED AND SUBMITTED BY:  <b>PANGASIAN B. MAMINTAS, CE</b> COLLEGE ENGINEER	NOTED BY:  <b>NANETTE D. BILBAO, Ed.D</b> DUMINGAG CAMPUS ADMINISTRATOR	RECOMMENDING APPROVAL:  <b>RODRIGO P. MILLARES, JR., REE, EnP.</b> PLANNING AND DEVELOPMENT DIRECTOR	APPROVED:  <b>MARY JOCELYN V. BATTUNG, Ph.D.</b> JHCSC PRESIDENT	SHEET CONTENT: <b>AS SHOWN</b>	SHEET NO: <div style="border: 1px solid black; border-radius: 50%; padding: 5px; text-align: center; width: 30px; margin: 0 auto;"> <b>A-5</b>  <b>5 12</b> </div>
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**LEFT SIDE ELEVATION**

SCALE: @ 1:150 MTS.




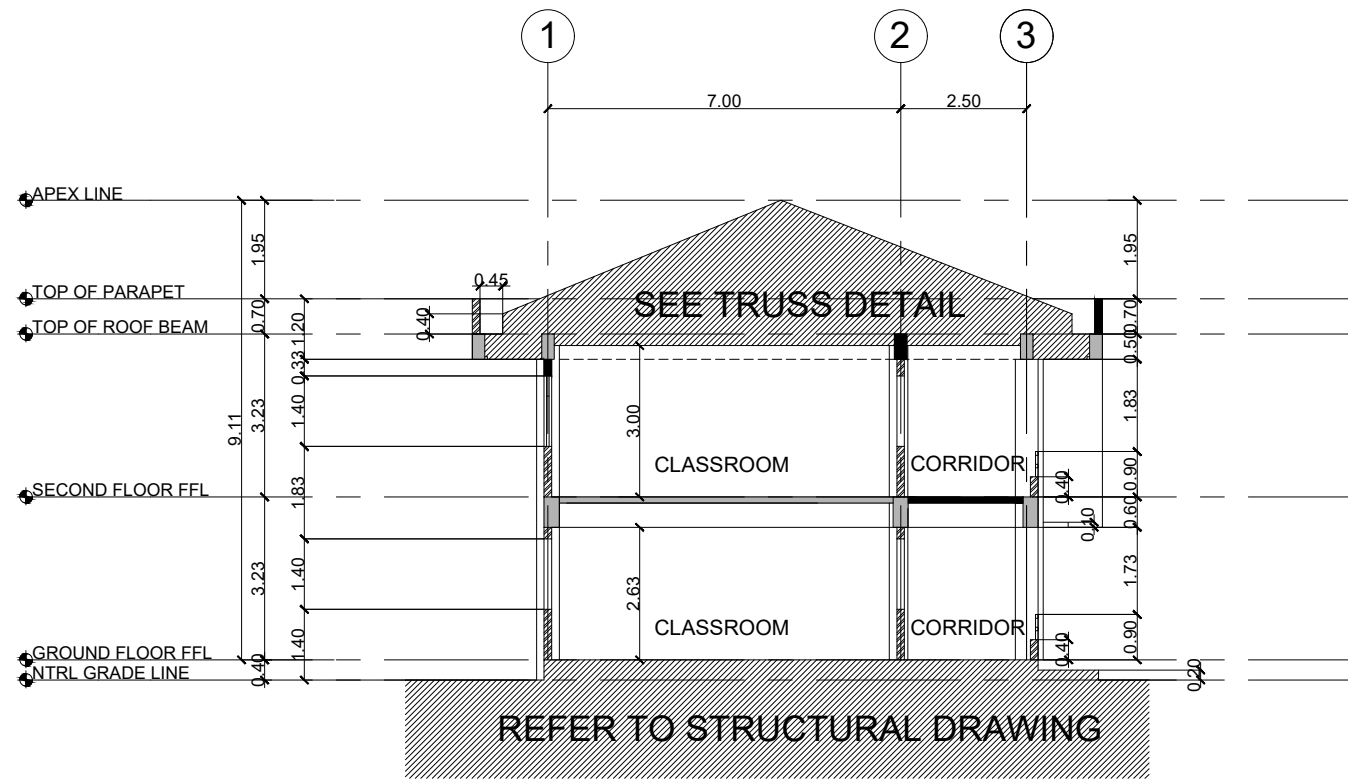
**RIGHT SIDE ELEVATION**

SCALE: @ 1:150 MTS.

**FRONT ELEVATION**  
SCALE: @ 1:150 MTS.

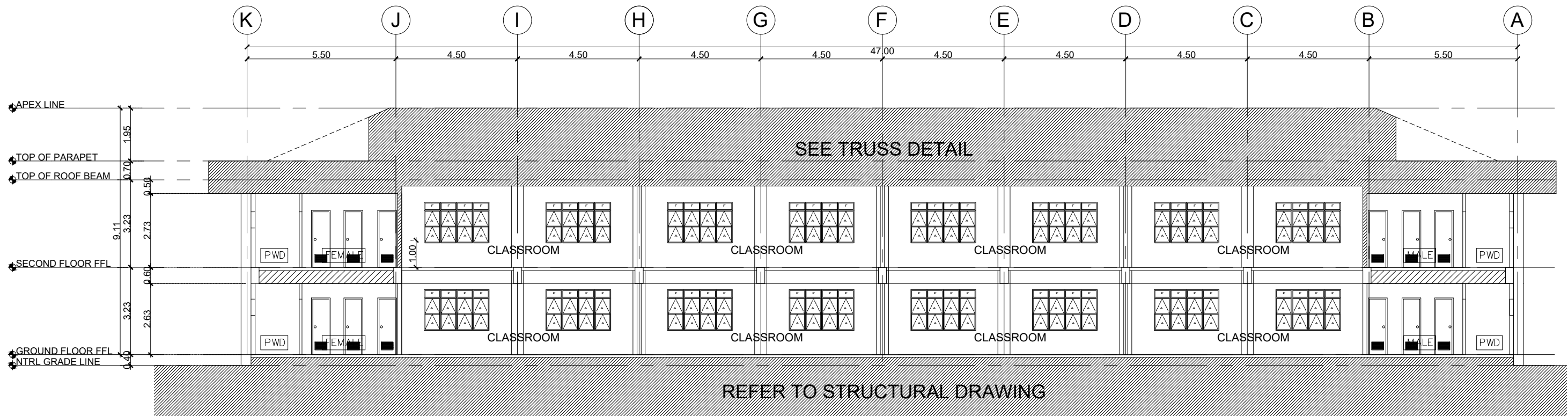


<p>PROJECT TITLE : <b>CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE &amp; FIXTURES</b> IN DAPIWAK, DUMINGAG CAMPUS LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR</p>	<p>PREPARED BY:  <b>DOMINGO C. DAPAR, JR.-UAP</b> ARCHITECT</p>	<p>CHECKED AND SUBMITTED BY:  <b>PANGASIAN B. MAMINTAS, CE</b> COLLEGE ENGINEER</p>	<p>NOTED BY:  <b>NANETTE D. BILBAO, Ed.D</b> DUMINGAG CAMPUS ADMINISTRATOR</p>	<p>RECOMMENDING APPROVAL:  <b>RODRIGO P. MILLARES, JR, REE, EnP.</b> PLANNING AND DEVELOPMENT DIRECTOR</p>	<p>APPROVED:  <b>MARY JOCELYN V. BATTUNG, Ph.D.</b> JHCSC PRESIDENT</p>	<p>SHEET CONTENT: <b>AS SHOWN</b></p>	<p>SHEET NO: <b>A-6</b> <b>6 12</b></p>
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**CROSS SECTION**

SCALE: @ 1:150 MTS.

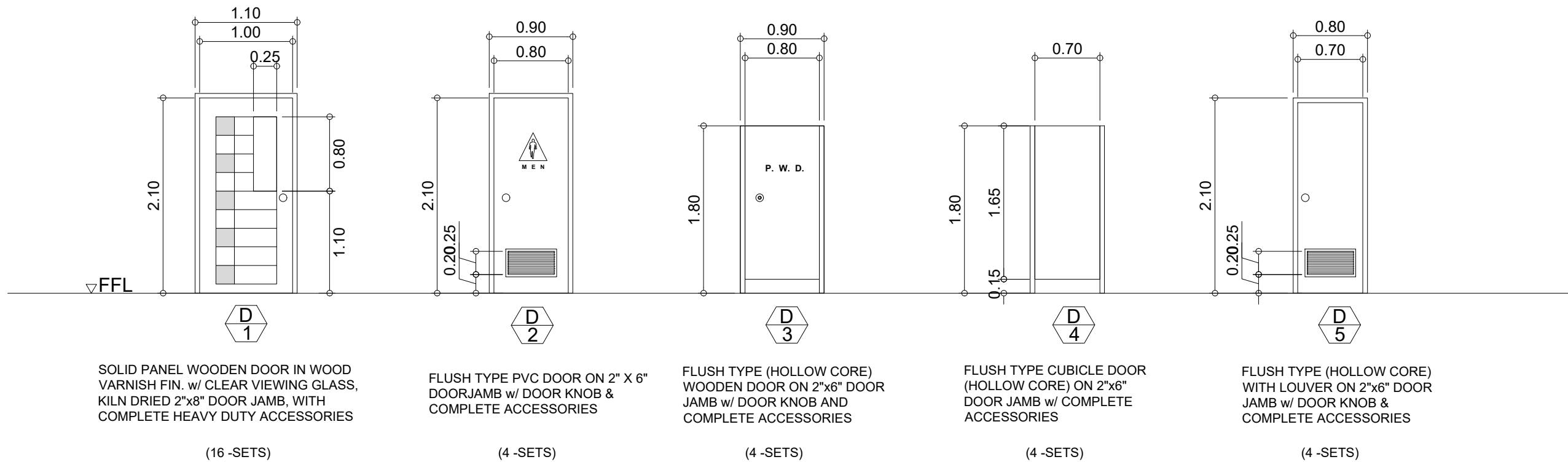
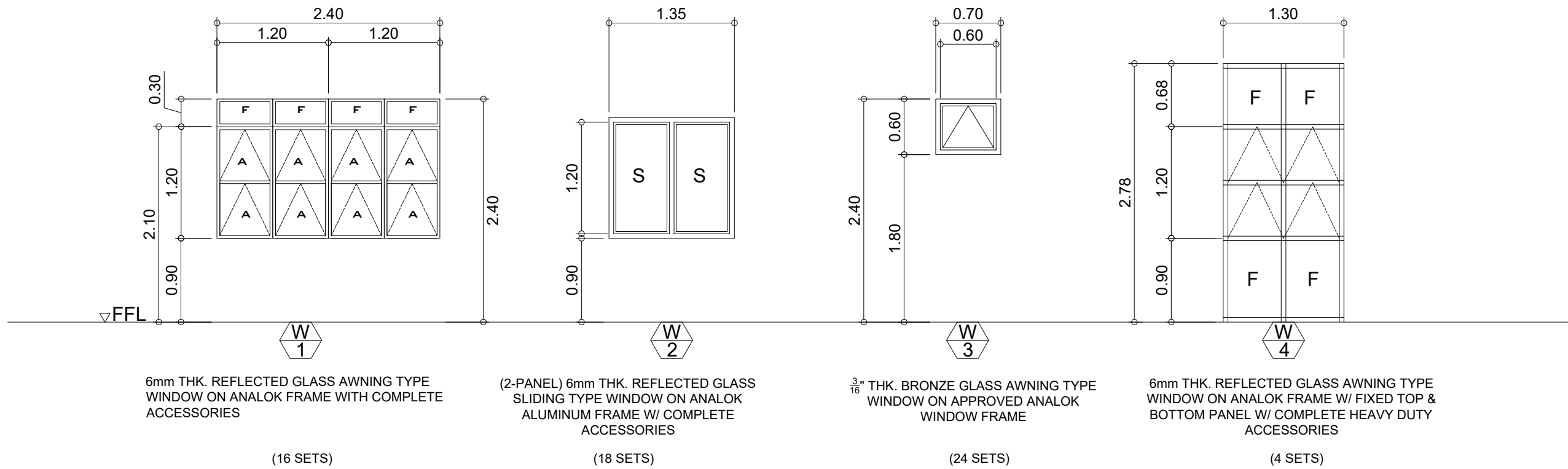


**LONGITUDIAL SECTION**

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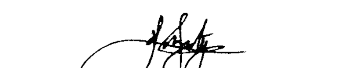





<p>PROJECT TITLE : <b>CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE &amp; FIXTURES IN DAPIWAK, DUMINGAG CAMPUS</b></p> <p>LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR</p>	<p>PREPARED BY: <i>[Signature]</i> <b>DOMINGO C. DAPAR, JR.-UAP</b> ARCHITECT</p>	<p>CHECKED AND SUBMITTED BY: <i>[Signature]</i> <b>PANGASIAN B. MAMINTAS, CE</b> COLLEGE ENGINEER</p>	<p>NOTED BY: <i>[Signature]</i> <b>NANETTE D. BILBAO, Ed.D</b> DUMINGAG CAMPUS ADMINISTRATOR</p>	<p>RECOMMENDING APPROVAL: <i>[Signature]</i> <b>RODRIGO P. MILLARES, JR, REE, EnP.</b> PLANNING AND DEVELOPMENT DIRECTOR</p>	<p>APPROVED: <i>[Signature]</i> <b>MARY JOCELYN V. BATTUNG, Ph.D.</b> JHCS-C-PRESIDENT</p>	<p>SHEET CONTENT: <b>AS SHOWN</b></p>	<p>SHEET NO: <b>A-7</b> <b>7 12</b></p>
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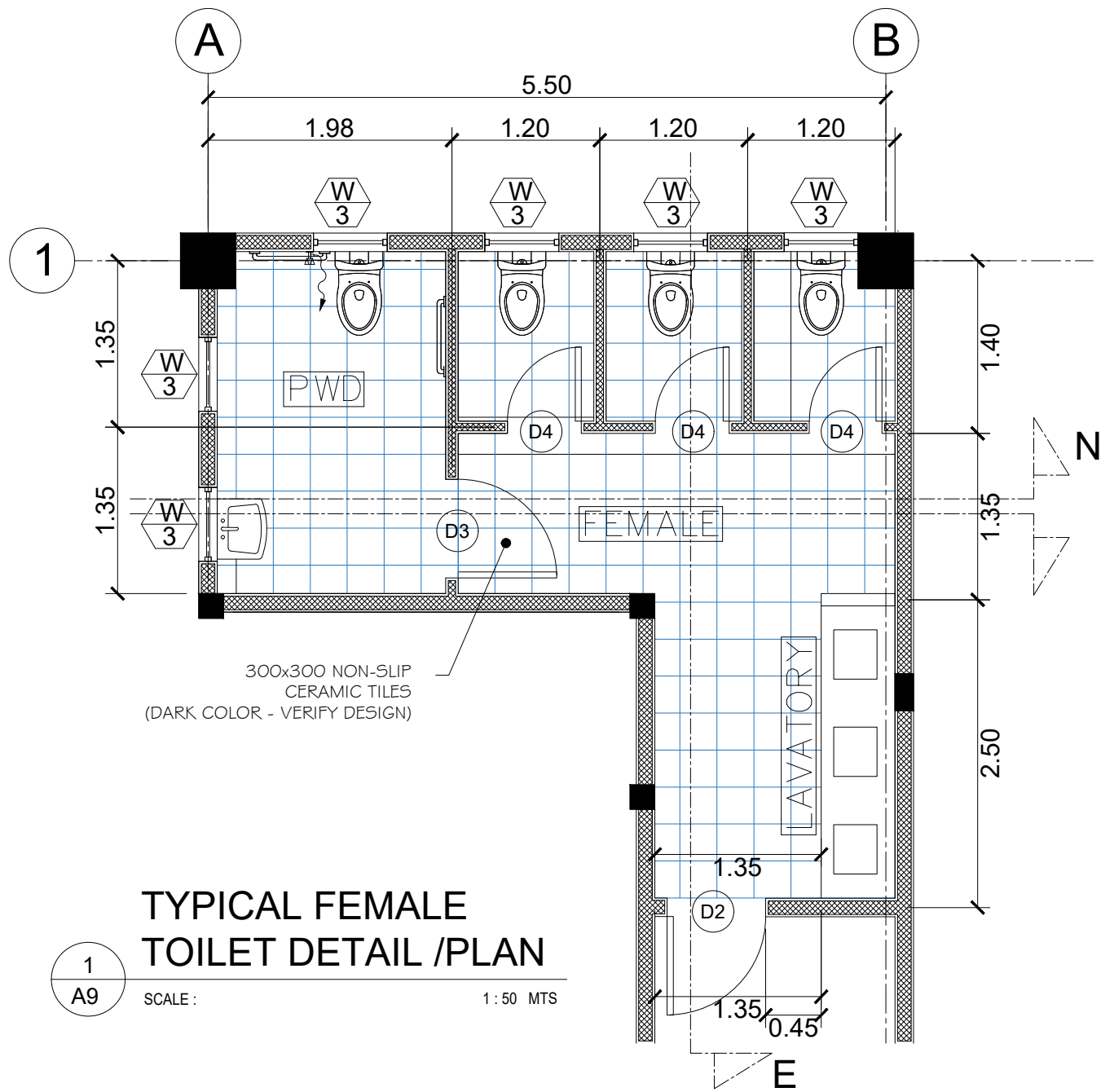


## SCHEDULE OF DOORS & WINDOWS

SCALE: \_\_\_\_\_ @ \_\_\_\_\_ 1:50 MTS.

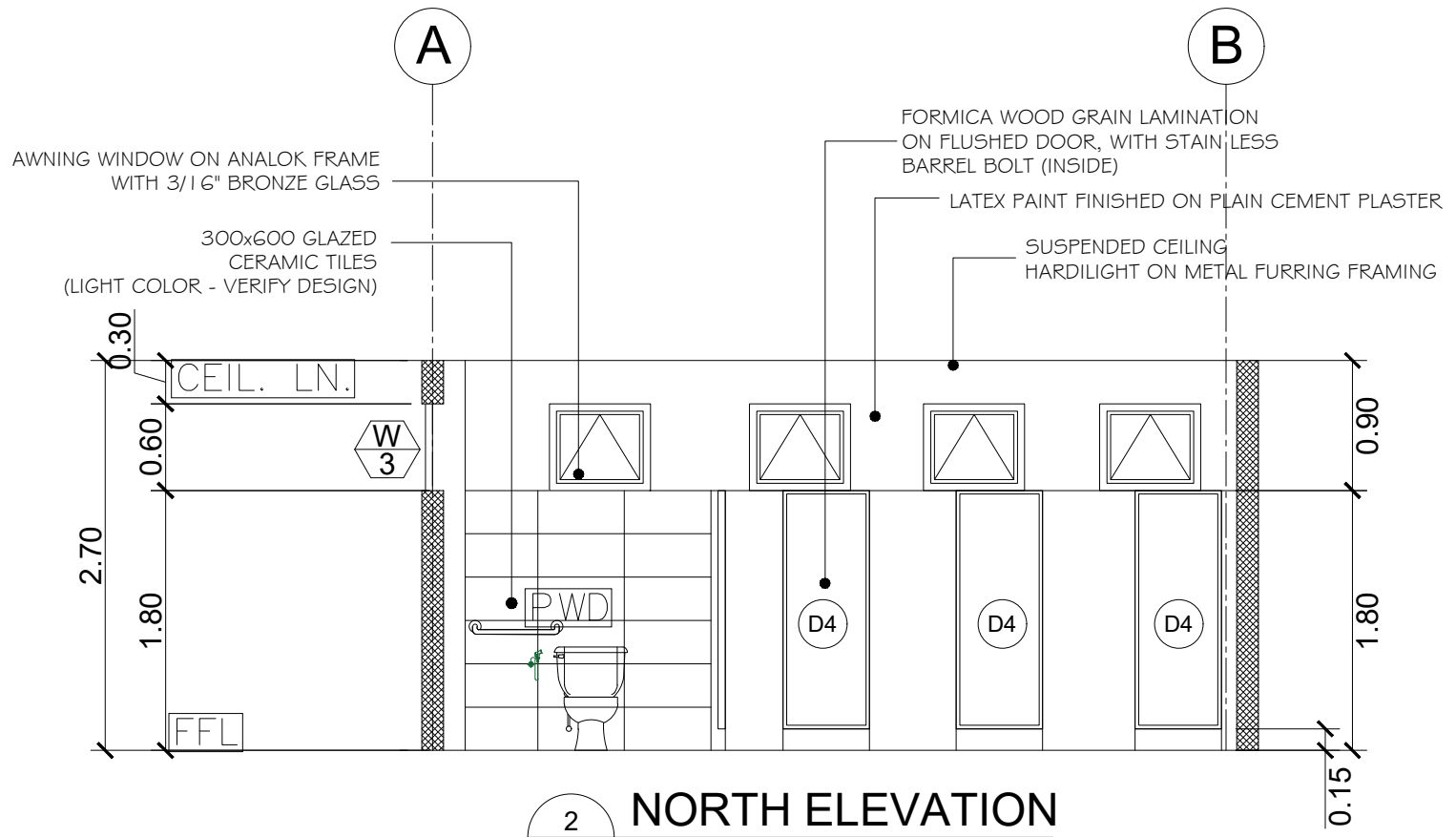
	<b>PROJECT TITLE :</b> CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE & FIXTURES IN DAPIWAK, DUMINGAG CAMPUS <small>LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR</small>	<b>PREPARED BY:</b>  <b>DOMINGO C. DAPAR, JR.-UAP</b> <small>ARCHITECT</small>	<b>CHECKED AND SUBMITTED BY:</b>  <b>PANGASIAN B. MAMINTAS, CE</b> <small>COLLEGE ENGINEER</small>	<b>NOTED BY:</b>  <b>NANETTE D. BILBAO, Ed.D</b> <small>DUMINGAG CAMPUS ADMINISTRATOR</small>	<b>RECOMMENDING APPROVAL:</b>  <b>RODRIGO P. MILLARES, JR., REE, EnP.</b> <small>PLANNING AND DEVELOPMENT DIRECTOR</small>	<b>APPROVED:</b>  <b>MARY JOCELYN V. BATTUNG, Ph.D.</b> <small>JHCSC/PRESIDENT</small>	<b>SHEET CONTENT:</b> AS SHOWN	<b>SHEET NO:</b> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> <b>A-8</b>  <b>8 12</b> </div>
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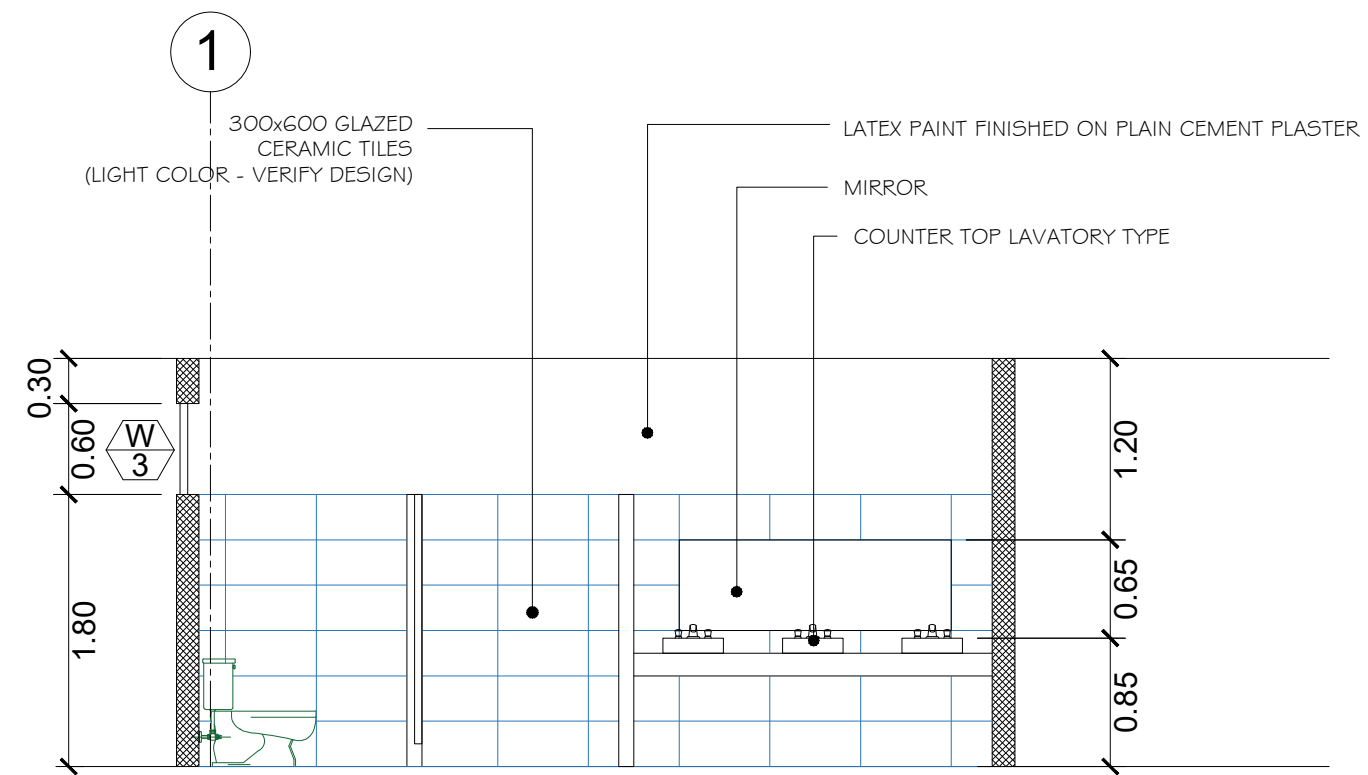


**TYPICAL FEMALE TOILET DETAIL /PLAN**

1  
A9 SCALE: 1:50 MTS



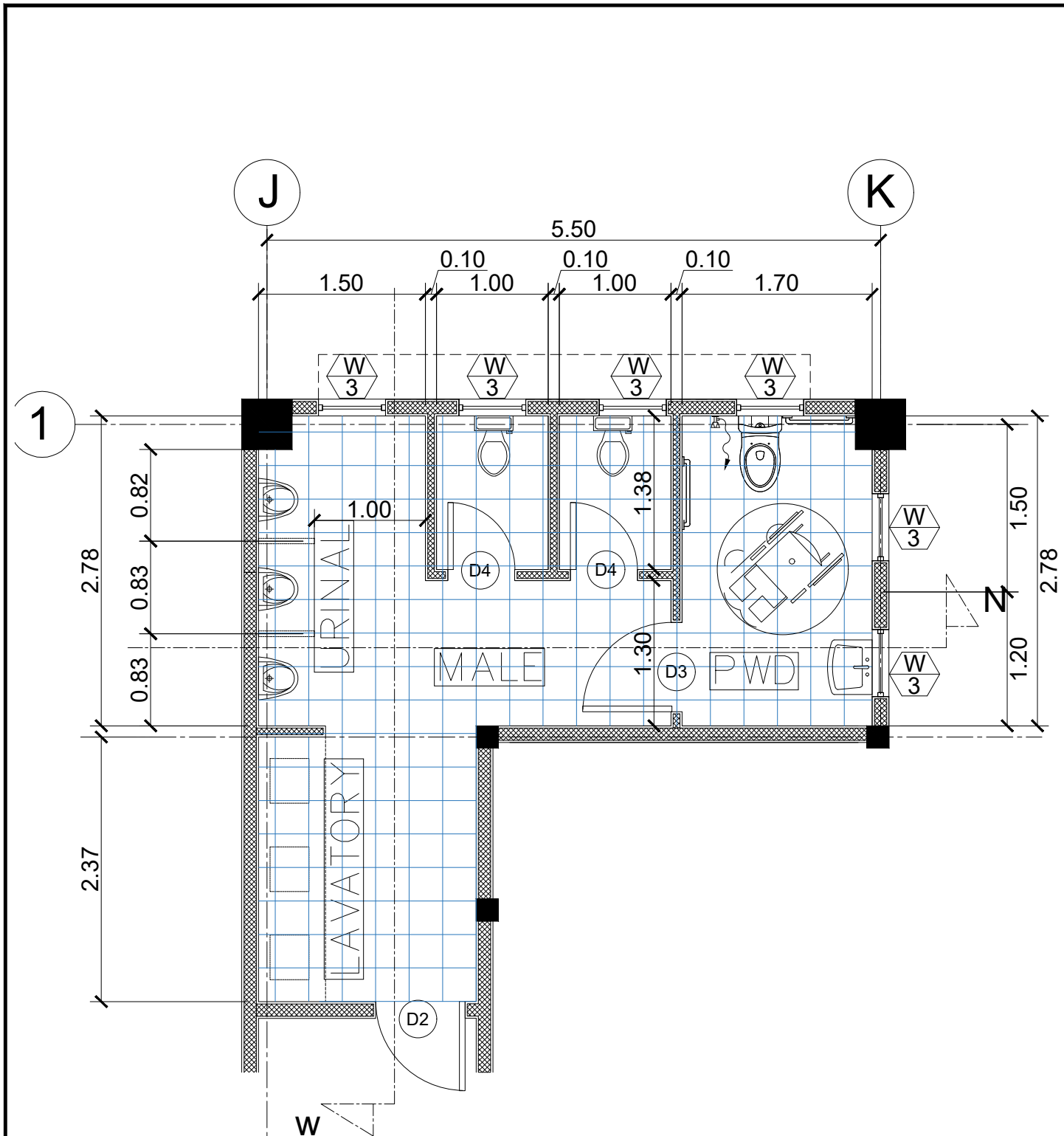
**2 NORTH ELEVATION**  
SCALE: 1:50 MTS



**3 EAST ELEVATION**  
SCALE: 1:50 MTS

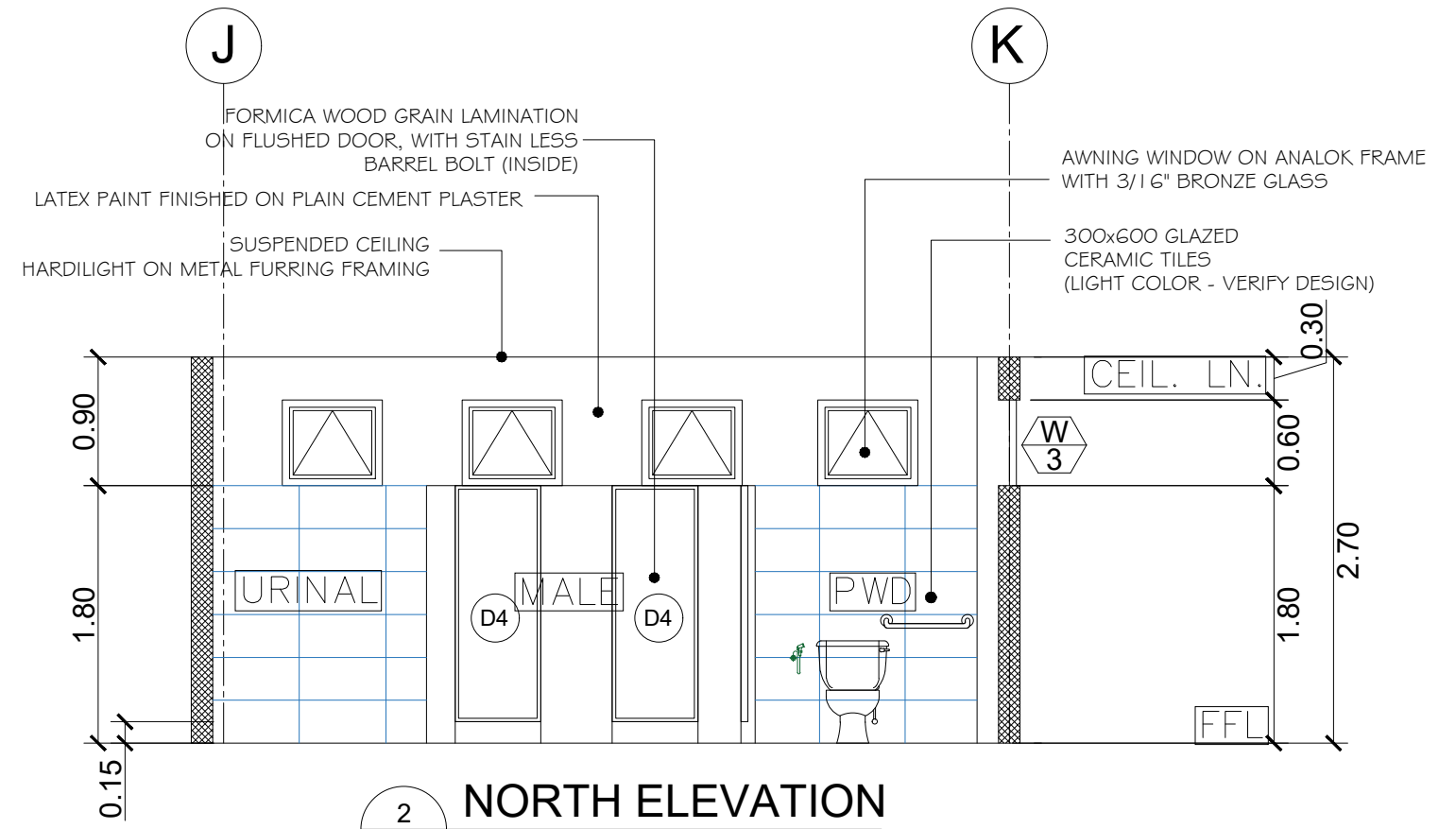


PROJECT TITLE : <b>CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE &amp; FIXTURES IN DAPIWAK, DUMINGAG CAMPUS</b>	PREPARED BY: <i>[Signature]</i> <b>DOMINGO C. DAPAR, JR.-UAP</b> ARCHITECT	CHECKED AND SUBMITTED BY: <i>[Signature]</i> <b>PANGASIAN B. MAMINTAS, CE</b> COLLEGE ENGINEER	NOTED BY: <i>[Signature]</i> <b>NANETTE D. BILBAO, Ed.D</b> DUMINGAG CAMPUS ADMINISTRATOR	RECOMMENDING APPROVAL: <i>[Signature]</i> <b>RODRIGO P. MILLARES, JR., REE, EnP.</b> PLANNING AND DEVELOPMENT DIRECTOR	APPROVED: <i>[Signature]</i> <b>MARY JOCELYN V. BATTUNG, Ph.D.</b> JHCSQ-PRESIDENT	SHEET CONTENT: <b>AS SHOWN</b>	SHEET NO.: <b>A-9</b> <b>9 12</b>
LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR	DATE :	DATE :	DATE :	DATE :	DATE :		



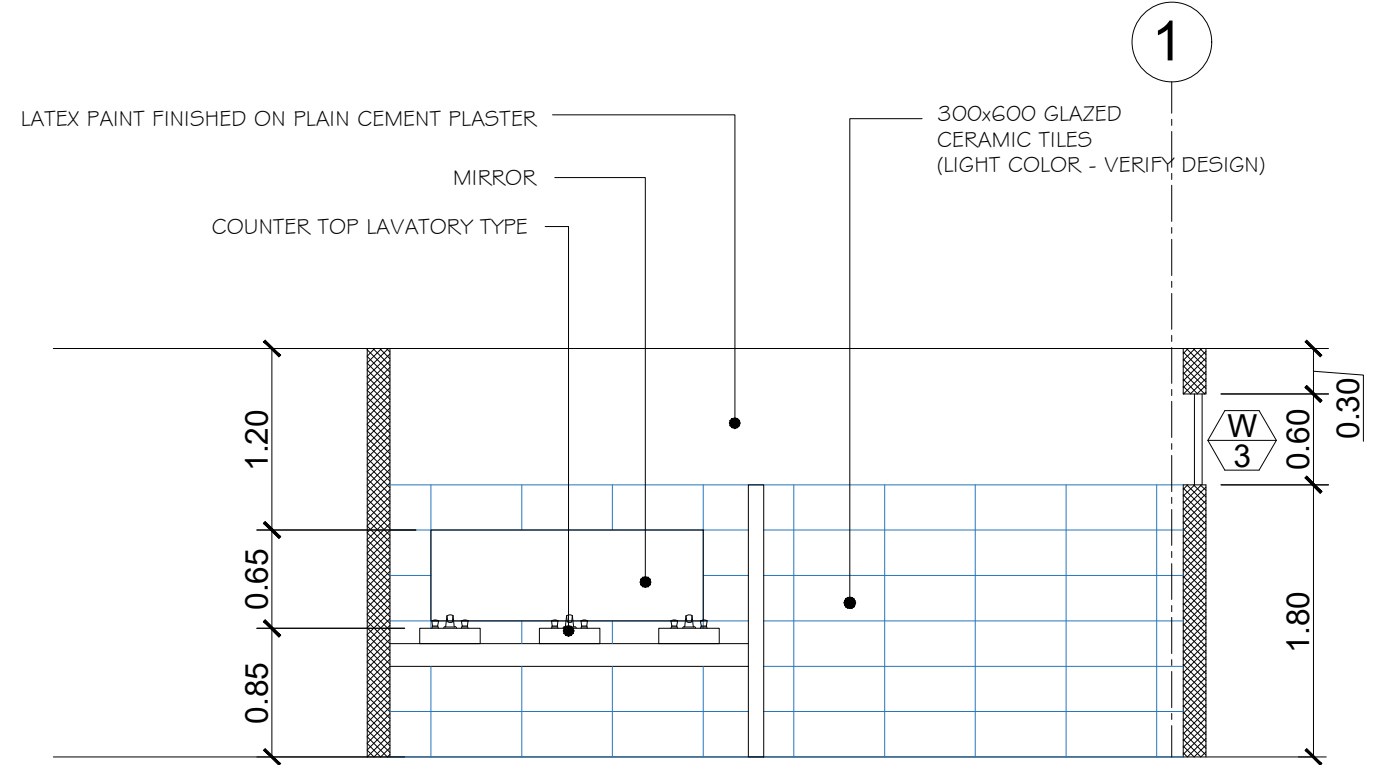
**TYPICAL MALE TOILET DETAIL /PLAN**

1 A10 SCALE: 1:50 MTS



**2 NORTH ELEVATION**

2 A10 SCALE: 1:50 MTS

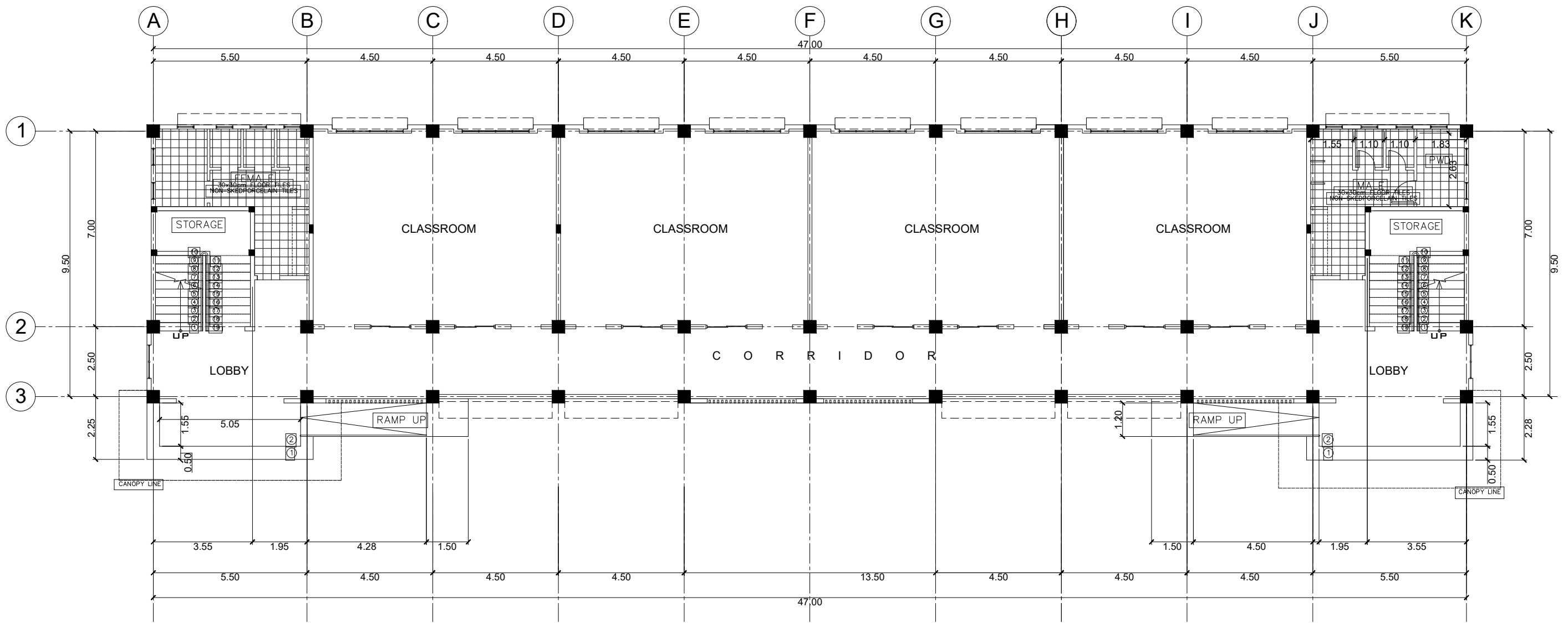


**3 WEST ELEVATION**

3 A10 SCALE: 1:50 MTS



PROJECT TITLE : <b>CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE &amp; FIXTURES IN DAPIWAK, DUMINGAG CAMPUS</b> LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR	PREPARED BY:  <b>DOMINGO C. DAPAR, JR.-UAP</b> ARCHITECT	CHECKED AND SUBMITTED BY:  <b>PANGASIAN B. MAMINTAS, CE</b> COLLEGE ENGINEER	NOTED BY:  <b>NANETTE D. BILBAO, Ed.D</b> DUMINGAG CAMPUS ADMINISTRATOR	RECOMMENDING APPROVAL:  <b>RODRIGO P. MILLARES, JR., REE, EnP.</b> PLANNING AND DEVELOPMENT DIRECTOR	APPROVED:  <b>MARY JOCELYN V. BATTUNG, Ph.D.</b> JHCSC-PRESIDENT	SHEET CONTENT: <b>AS SHOWN</b>	SHEET NO.: <b>A-10</b> <b>1012</b>
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**GROUND FLR TILES LAYOUT PLAN**

SCALE: \_\_\_\_\_ @ \_\_\_\_\_ 1:150 MTS.



PROJECT TITLE :  
**CONSTRUCTION OF 2-STOREY 8-CL  
 ACADEMIC BUILDING WITH COMPLETE  
 FURNITURE & FIXTURES**  
 IN DAPIWAK, DUMINGAG CAMPUS  
 LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR

PREPARED BY:  
  
**DOMINGO C. DAPAR, JR.-UAP**  
 ARCHITECT

CHECKED AND SUBMITTED BY:  
  
**PANGASIAN B. MAMINTAS, CE**  
 COLLEGE ENGINEER

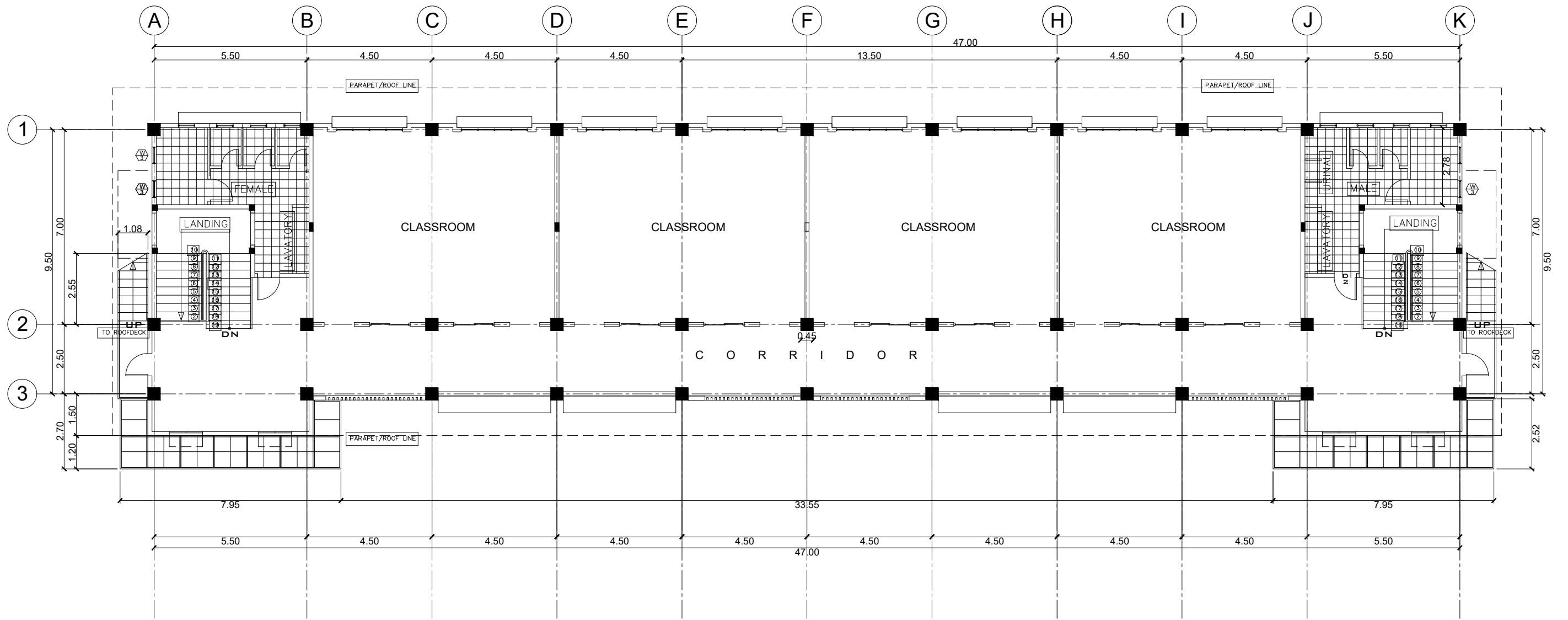
NOTED BY:  
  
**NANETTE D. BILBAO, Ed.D**  
 DUMINGAG CAMPUS ADMINISTRATOR

RECOMMENDING APPROVAL:  
  
**RODRIGO P. MILLARES, JR., REE, EnP.**  
 PLANNING AND DEVELOPMENT DIRECTOR

APPROVED:  
  
**MARY JOCELYN V. BATTUNG, Ph.D.**  
 JHCSQ-PRESIDENT

SHEET CONTENT:  
**AS SHOWN**

SHEET NO:  
**A-11**  
**1112**



## SECOND FLR TILES LAYOUT PLAN

SCALE: @ 1:150 MTS.



<p>PROJECT TITLE :  <b>CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE &amp; FIXTURES</b>          IN DAPIWAK, DUMINGAG CAMPUS          LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR</p>	<p>PREPARED BY:    <b>DOMINGO C. DAPAR, JR.-UAP</b>          ARCHITECT</p>	<p>CHECKED AND SUBMITTED BY:    <b>PANGASIAN B. MAMINTAS, CE</b>          COLLEGE ENGINEER</p>	<p>NOTED BY:    <b>NANETTE D. BILBAO, Ed.D</b>          DUMINGAG CAMPUS ADMINISTRATOR</p>	<p>RECOMMENDING APPROVAL:    <b>RODRIGO P. MILLARES, JR., REE, EnP.</b>          PLANNING AND DEVELOPMENT DIRECTOR</p>	<p>APPROVED:    <b>MARY JOCELYN V. BATTUNG, Ph.D.</b>          JHCSC-PRESIDENT</p>	<p>SHEET CONTENT:  <b>AS SHOWN</b></p>	<p>SHEET NO:  <b>A-12</b>  <b>1212</b></p>
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# GENERAL CONSTRUCTION NOTES

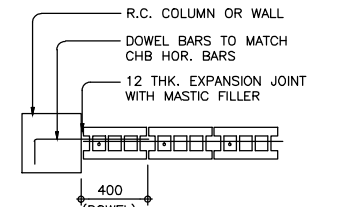
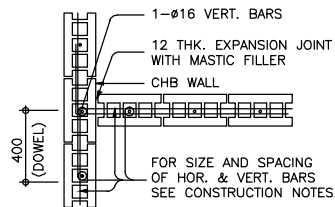
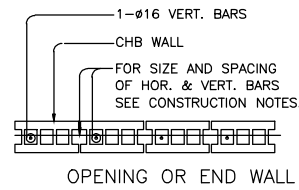
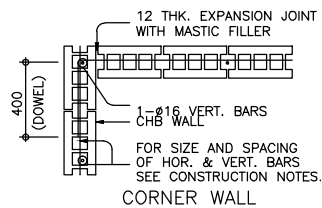
## NOTES ON CONCRETE HOLLOW BLOCK WALLS

- UNLESS OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.
- PROVIDE 150mm x 300mm STIFFENER COLUMN REINFORCED WITH 4-12mm WITH 6mm TIES AT 150mm ON CENTER WHERE CONCRETE HOLLOW BLOCK TERMINATES AND AT EVERY 3.0M LENGTH OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN STRUCTURAL PLANS.

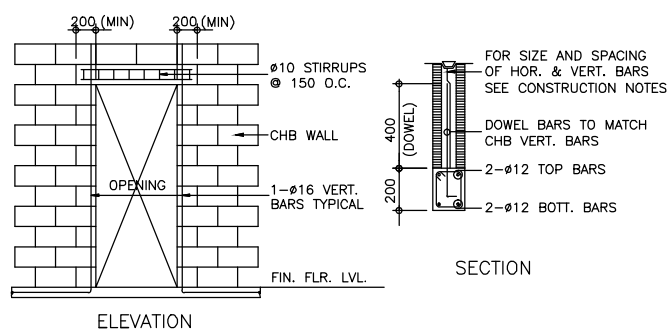
BLOCK THICKNESS	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
75 mm	10mm @ 600mm O.C.	10mm @ 600mm O.C.	A. MINIMUM LAPS AT SPLICE = 0.25M B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS 0.92M LONG
125 mm	10mm @ 600mm O.C.	10mm @ 600mm O.C.	C. WHERE CHB OR CER. BLK. WALL DOWELS JOIN COL. R.C. BEAMS AND WALL DOWELS WITH THE SAME SIZE AS VERT. OR HOR. REINFORCEMENTS SHALL BE PROVIDED
150 mm	10mm @ 600mm O.C.	10mm @ 600mm O.C.	
200 mm	12mm @ 600mm O.C.	12mm @ 600mm O.C.	

## REINFORCING CONCRETE LINTEL BEAM IN CONCRETE BLOCK WALLS

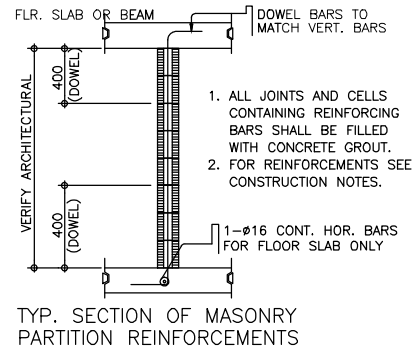
LINTELS IN BLOCK WALLS						
CLEAR SPAN ("L")	TOTAL LENGTH (L+0.40M)	MIN. f'c (MPa)	HEIGHT OF LINTEL (MM)	REINFORCEMENT		
				BOTTOM	TOP	STIRRUPS
1.20M	1.60M	14.0	200	1-#10	1-#10	#6mm @ 200mm
1.50M	1.90M		200	1-#10	1-#10	#6mm @ 200mm
1.80M	2.20M		200	1-#12	1-#10	#6mm @ 200mm
2.10M	2.50M	17.0	250	1-#12	1-#10	#6mm @ 200mm
2.40M	2.90M		250	1-#12	1-#10	#6mm @ 200mm
2.70M	3.10M		250	1-#16	1-#12	#10mm @ 200mm
3.00	3.40M	20.0	300	1-#16	1-#12	#10mm @ 200mm
3.30	3.70M		300	1-#16	1-#12	#10mm @ 200mm
3.60	4.00		300	1-#20	1-#12	#10mm @ 200mm



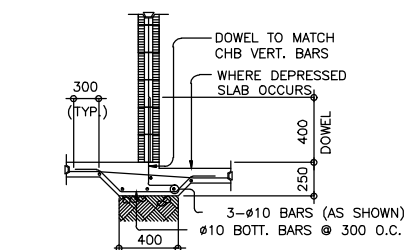
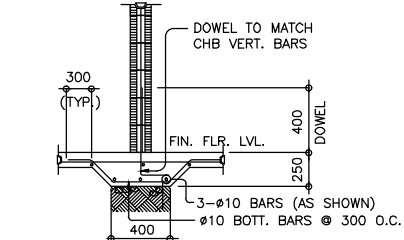
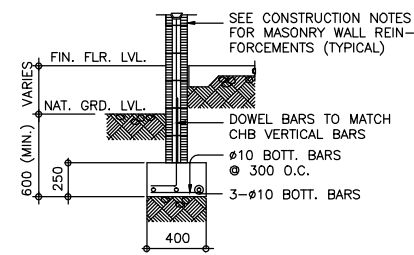
## TYPICAL CONNECTION DETAIL OF MASONRY WALL



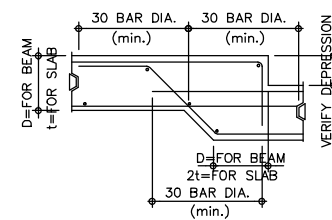
TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING



TYP. SECTION OF MASONRY PARTITION REINFORCEMENTS



## TYPICAL CHB FOOTING DETAILS (WHERE APPLICABLE)



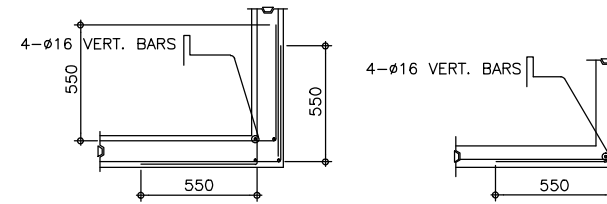
TYPICAL DETAIL FOR BEAM OR SLAB CHANGE SOFFIT

## NOTES ON CONCRETE WALLS

- ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.

WALL THICKNESS	REINFORCEMENT		REMARKS	VERTICAL SECTION
	HORIZONTAL	VERTICAL		
100mm	#10mm @ 250mm O.C.	#10mm @ 300mm O.C.	HORIZONTAL BARS AT CENTERS VERTICAL BARS STAGGERED OUT	VERT. BARS HORIZ. BARS
125mm	#10mm @ 200mm O.C.	#10mm @ 250mm O.C.		
150mm	#12mm @ 250mm O.C.	#12mm @ 300mm O.C.		

- REINFORCING BARS SHALL HAVE 25mm CLEAR CONCRETE COVER FROM FACE OF WALL EXCEPT FOR WALLS IN CONTACT WITH THE GROUND WHERE A MINIMUM OF 60mm SHALL BE PROVIDED, AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm CLEAR.
- CARRY VERTICAL BARS AT LEAST 60mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPLICES WHEN NECESSARY STOP AT 50mm BELOW TOP SLAB OR SOLID BAND WHERE THE WALL ENDS VERTICAL AND HORIZONTAL BARS SHALL BE SPLICED BY LAPPING A DISTANCE EQUAL TO 30 DIAMETERS AND WIRED SECURELY WITH 16 G.I. WIRE PROVIDED THAT SPLICES IN ADJACENT BARS ARE STAGGERED AT LEAST 1.50M O.C.
- UNLESS OTHERWISE NOTED IN THE PLANS, ALL OPENINGS IN WALLS 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 2-20mm# BARS FOR 225mm, 200mm, 175mm, 150mm, USE 2-16mm# FOR 125mm AND 100mm WALLS, USE 2-12mm# BARS. ALL WALLS SPANNING SHALL HAVE VERTICAL REINFORCEMENT BENT TO A U-FORM LIKE STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED (SEE FIG.1)



TYPICAL CONNECTION DETAIL OF R.C. WALL AT CORNERS

## NOTES ON WELDS

- USE E70XX ELECTRODES FOR ALL MEMBERS WELDED.
- WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.

## NOTES ON STRUCTURAL STEEL

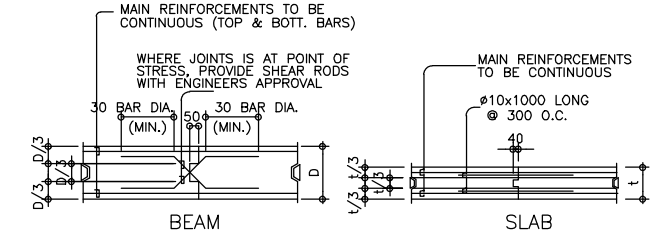
- STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISION OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
- ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
- ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
- UNLESS OTHERWISE SPECIFIED ALL WELDING RODS SHALL CONFORM AWS E60 ELECTRODES.
- ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM A 307 BOLTS.

## NOTES ON EMBEDDED PIPES

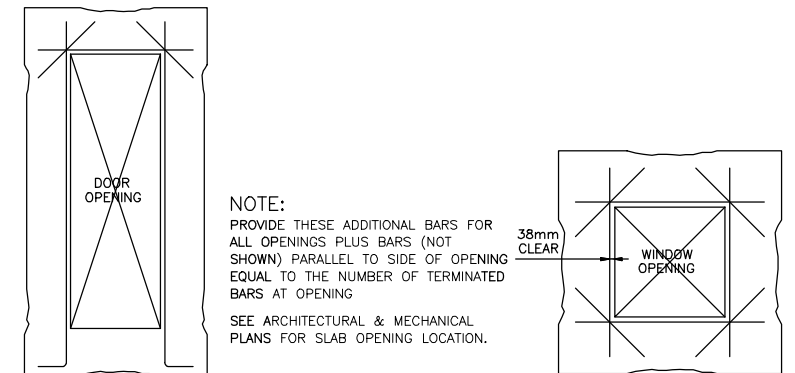
- ALL EMBEDDED PIPES FOR UTILITIES, ETC. THAT PASS THRU BEAMS SHALL NOT EXCEED 100mm IN DIAMETER OR 1/3 BEAM DEPTH WHICHEVER IS LESS, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- NO PIPES SHALL BE ALLOWED TO PASS THRU BEAMS VERTICALLY.
- NO PIPES SHALL BE EMBEDDED IN COLUMNS.

## NOTES ON CONSTRUCTION JOINTS IN CONCRETE

- WHERE A CONSTRUCTION JOINT IS TO BE MADE, THE SURFACE OF CONCRETE SHALL BE CLEANED AND ALL LAITANCE AND STANDING WATER REMOVED. SHEAR KEY SHALL BE PROVIDED AT THE JOINT.



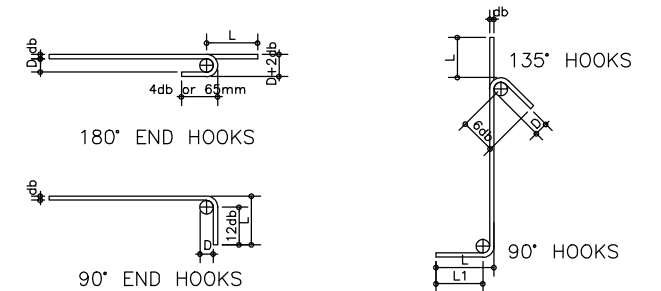
TYPICAL SLAB & BEAM CONSTRUCTION JOINT DET.



TYP. EXTERIOR WINDOW & DOOR OPENING

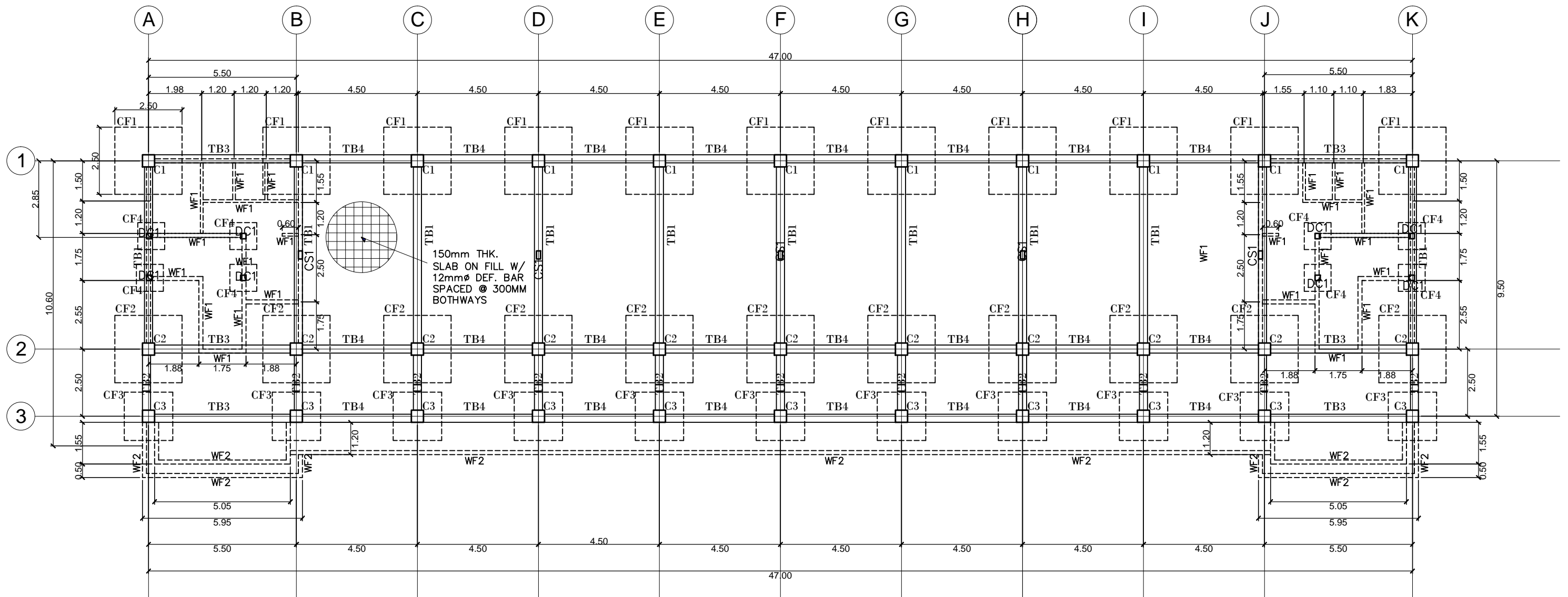
## NOTES OF STIRRUPS

- ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
- REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FILLED BENT, EXCEPT AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.
- TIES & CLOSE STIRRUPS MUST BE BENT AT 135°.



MAIN BAR END HOOKS (ALL GRADES)				
BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK
		D+2db	L	L
10mm #	60	75	125	150
12mm #	75	100	150	200
16mm #	95	125	175	250
20mm #	115	150	200	300
25mm #	150	200	230	450
28mm #	240	300	350	550
32mm #	300	335	450	600

STIRRUP AND TIE HOOKS (ALL GRADES)				
BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK
		D+2db	L	L
10mm #	40	125	85	100
12mm #	50	165	115	115
16mm #	65	200	140	150
20mm #	115	250	165	300
25mm #	150	365	230	405



**FOUNDATION PLAN**  
 SCALE 1:150M

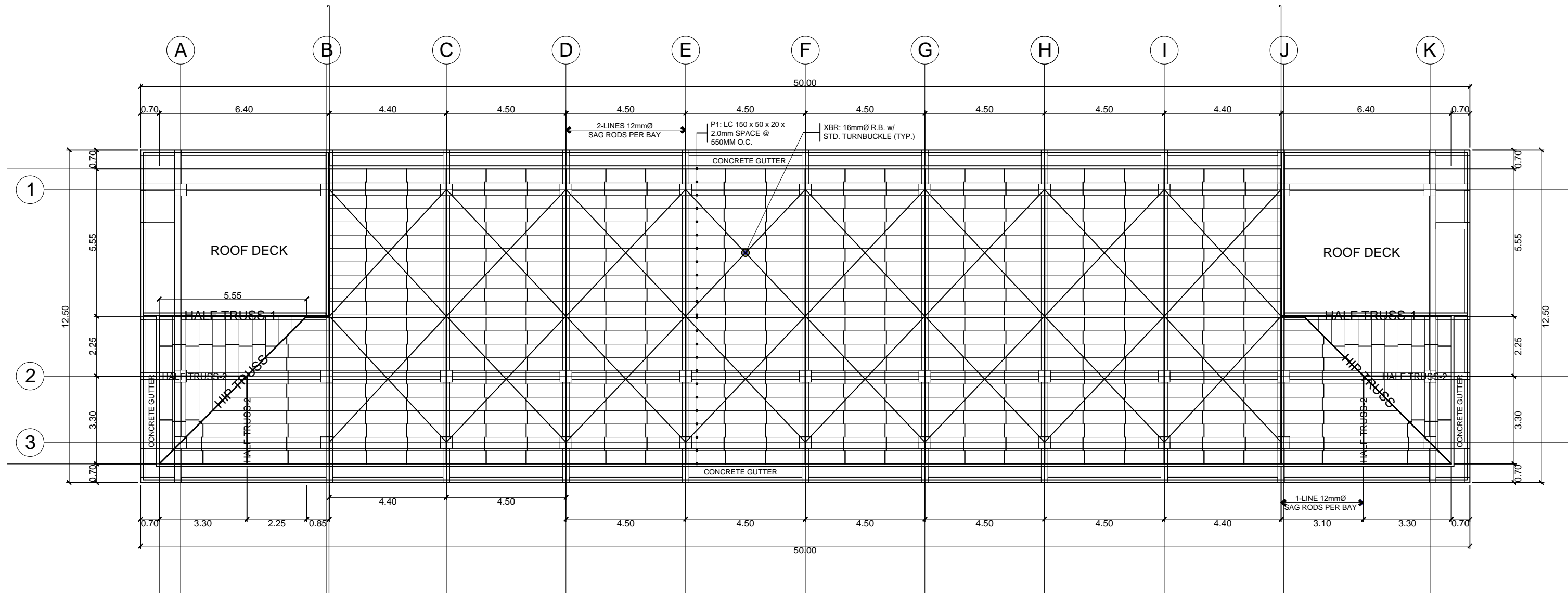
	PROJECT TITLE : <b>CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE &amp; FIXTURES IN DAPIWAK, DUMINGAG CAMPUS</b> <small>LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR</small>	PREPARED BY:  <b>AIVY B. GAPOL</b> <small>ENGINEERING ASSISTANT</small>	CHECKED AND SUBMITTED BY:  <b>PANGASIAN B. MAMINTAS, CE</b> <small>COLLEGE ENGINEER</small>	NOTED BY:  <b>NANETTE J. BILBAO, Ed.D</b> <small>DUMINGAG CAMPUS ADMINISTRATOR</small>	RECOMMENDING APPROVAL:  <b>RODRIGO P. MILLARES, JR., REE, EnP</b> <small>PLANNING AND DEVELOPMENT DIRECTOR</small>	APPROVED:  <b>MARY JOCELYN W. BATTUNG, Ph.D.</b> <small>JHCSC PRESIDENT</small>	SHEET CONTENT: <b>AS SHOWN</b>	SHEET NO.: <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;"> <b>S-3</b>  <b>3 12</b> </div> </div>
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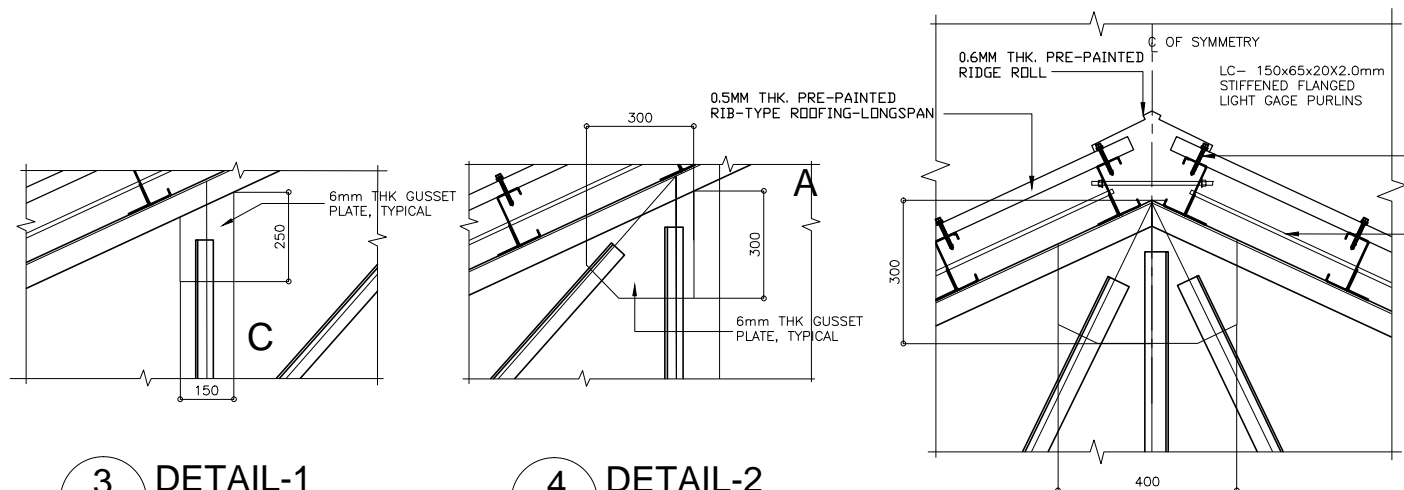






**ROOF FRAMING PLAN**  
 SCALE 1:150M

	PROJECT TITLE : <b>CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE &amp; FIXTURES IN DAPIWAK, DUMINGAG CAMPUS</b> <small>LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR</small>	PREPARED BY:  <b>AIVY B. GAPOL</b> <small>ENGINEERING ASSISTANT</small>	CHECKED AND SUBMITTED BY:  <b>PANGASIAN B. MAMINTAS, CE</b> <small>COLLEGE ENGINEER</small>	NOTED BY:  <b>NANETTE D. BILBAO, Ed.D</b> <small>DUMINGAG CAMPUS ADMINISTRATOR</small>	RECOMMENDING APPROVAL:  <b>RODRIGO P. MILLABES, JR., REE, EnP</b> <small>PLANNING AND DEVELOPMENT DIRECTOR</small>	APPROVED:  <b>MARY JOCELYN V. BATTUNG, Ph.D.</b> <small>JHSC-PRESIDENT</small>	SHEET CONTENT: <b>AS SHOWN</b>	SHEET NO: <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">S-7</div> <div style="text-align: center;">7   12</div> </div>
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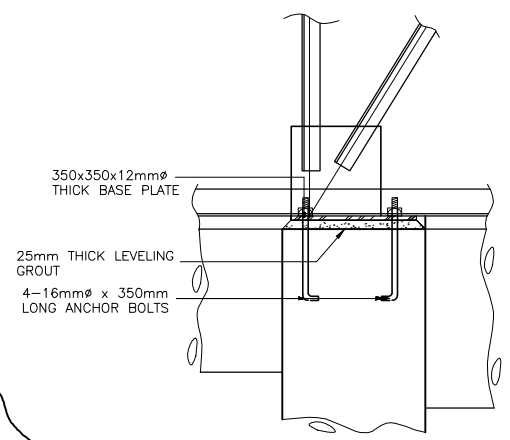
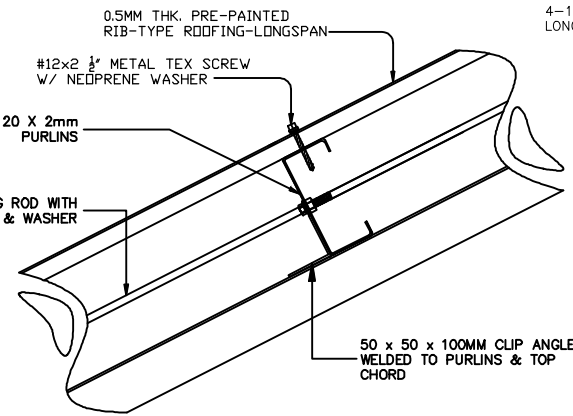
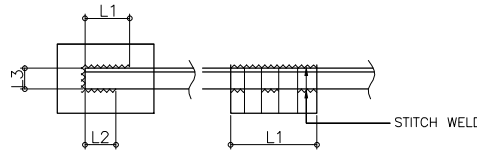
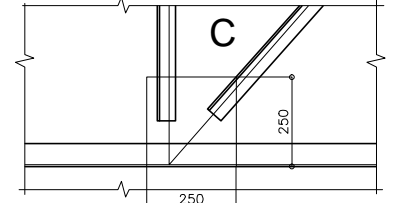
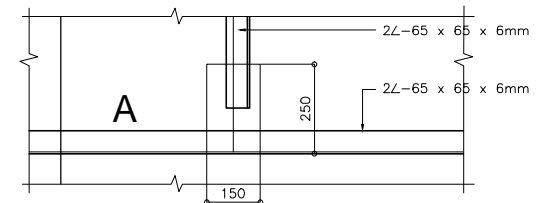


MARK	TRUSS MEMBERS SIZE mm	WELDS			REMARKS	
		THICKNESS mm	LENGTH mm			
			L1	L2	L3	
A	2Ls-65x65x6 (TOP/BOTTOM CHORDS)	6	FULL WELD			
B	2Ls-65x65x6	6	125	100	65	
C	2Ls-50x50x6	6	100	75	50	

**3 DETAIL-1**  
S-7 SCALE NTS

**4 DETAIL-2**  
S-7 SCALE NTS

**6 DETAIL-3**  
S-7 SCALE NTS



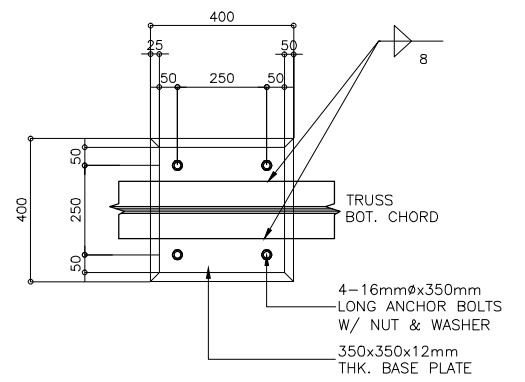
**9B ELEVATION**  
S-7 SCALE

**2 DETAIL**  
S-7 SCALE 1:10 M.

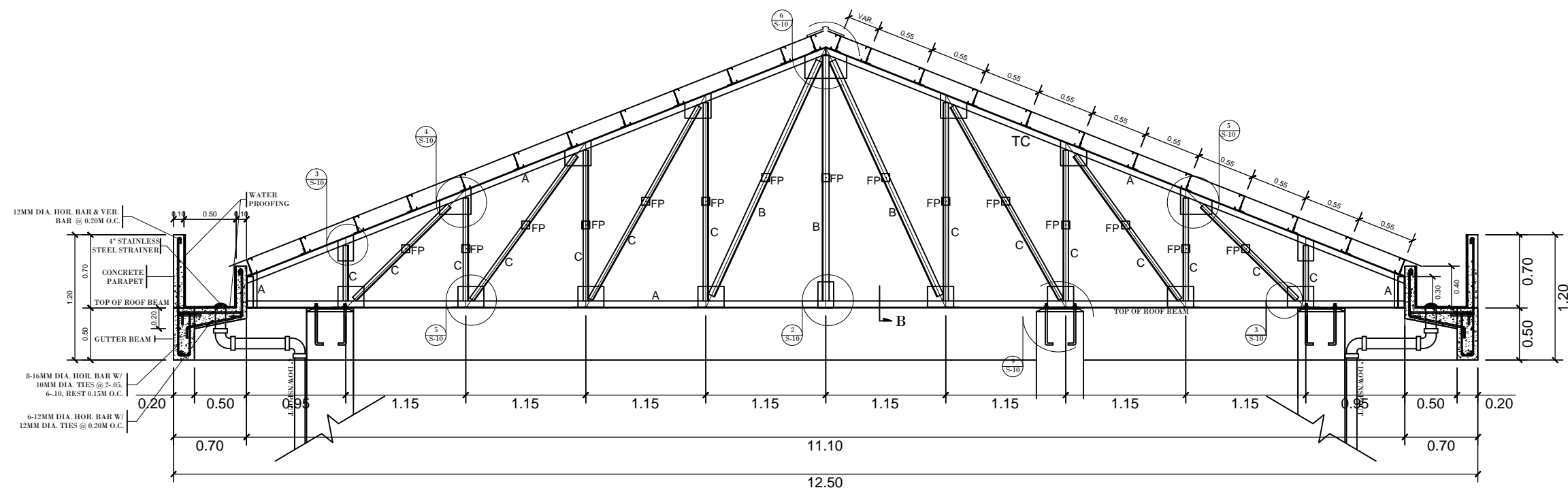
**5 DETAIL-4**  
S-7 SCALE 1:10 M.

**7 WELD DETAIL**  
S-7 NOT TO SCALE

**4 CONNECTION OF RIB-TYPE ROOFING TO PURLIN**  
S-7 SCALE NTS



**9A PLAN**  
S-7 SCALE



**1 TRUSS-1 ELEVATION**  
S-7 SCALE 1:50

**9 TRUSS SUPPORT CONNECTION DETAIL**  
S-7 SCALE AS SHOWN.

	PROJECT TITLE :	PREPARED BY:	CHECKED AND SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT:	SHEET NO:
	CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE & FIXTURES IN DAPIWAK, DUMINGAG CAMPUS	<i>Aivy B. Gapol</i> AIVY B. GAPOL ENGINEERING ASSISTANT	<i>Pangasian B. Mamintas, CE</i> PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	<i>Nanette D. Bilbao, Ed.D</i> NANETTE D. BILBAO, Ed.D DUMINGAG CAMPUS ADMINISTRATOR	<i>Rodrigo P. Millabes, Jr., REE, EnP</i> RODRIGO P. MILLABES, JR., REE, EnP PLANNING AND DEVELOPMENT DIRECTOR	<i>Mary Jocelyn V. Battung, Ph.D.</i> MARY JOCELYN V. BATTUNG, Ph.D. JHCSC-PRESIDENT	AS SHOWN	S-8 812
	LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR	DATE :	DATE :	DATE :	DATE :	DATE :		











DISTRICT/CITY/MUNICIPALITY

PLUMBING/SANITARY:





PLUMBING NOTES:

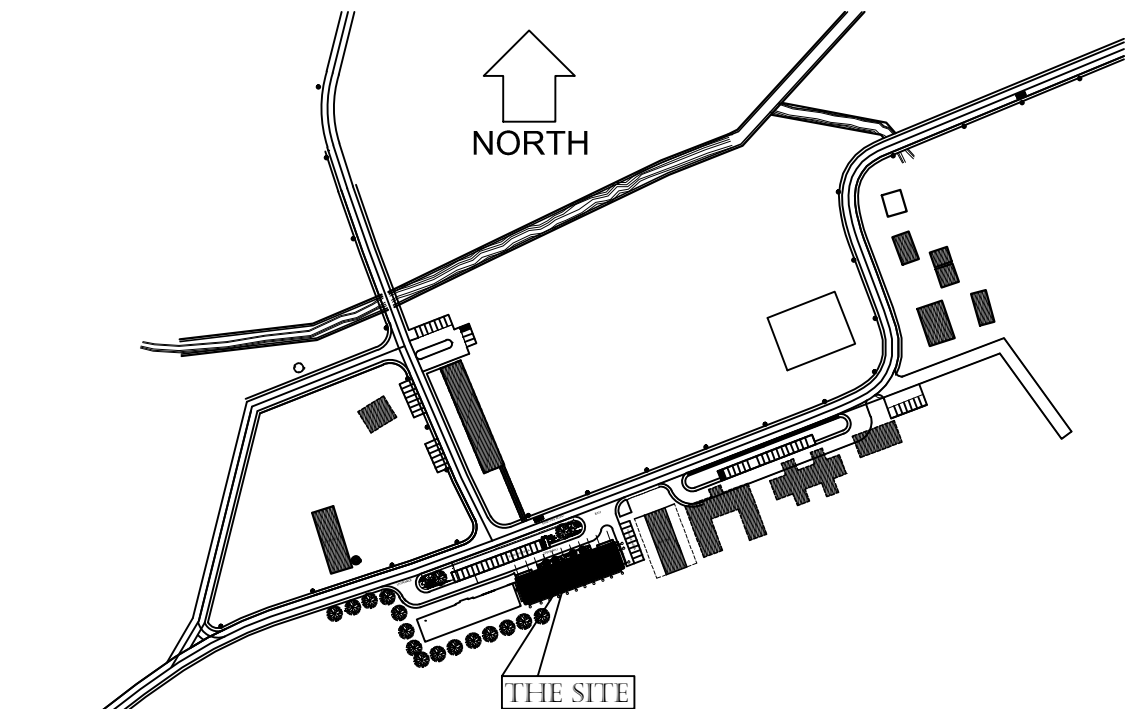
ALL PLUMBING INSTALLATION SHALL CONFORM TO THE STANDARD / RULES AND REGULATIONS OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES AND LOCAL GOVERNMENT.

ALL PLUMBING INSTALLATIONS SHALL BE UNDER THE DIRECT AND STRICT SUPERVISION OF DULY LICENSED PLUMBING ENGINEER OR REGISTERED MASTER PLUMBER.

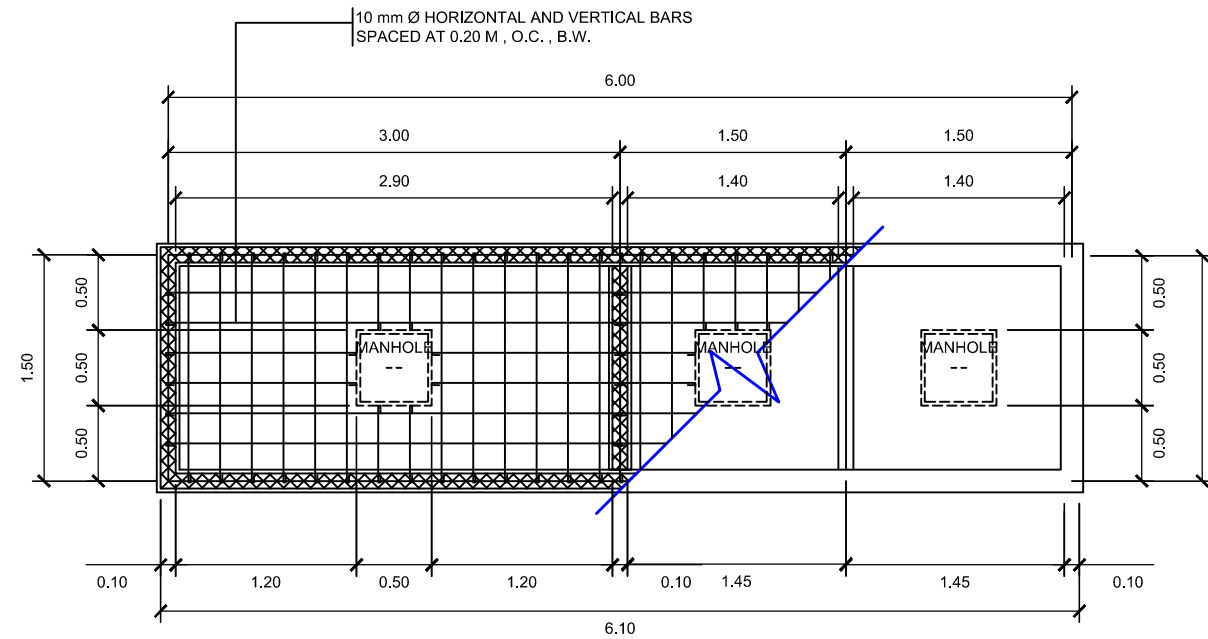
ALL SPECIFICATION ABOVE SHOULD BE STRICTLY OBSERVED.

PLUMBING SYMBOLS:

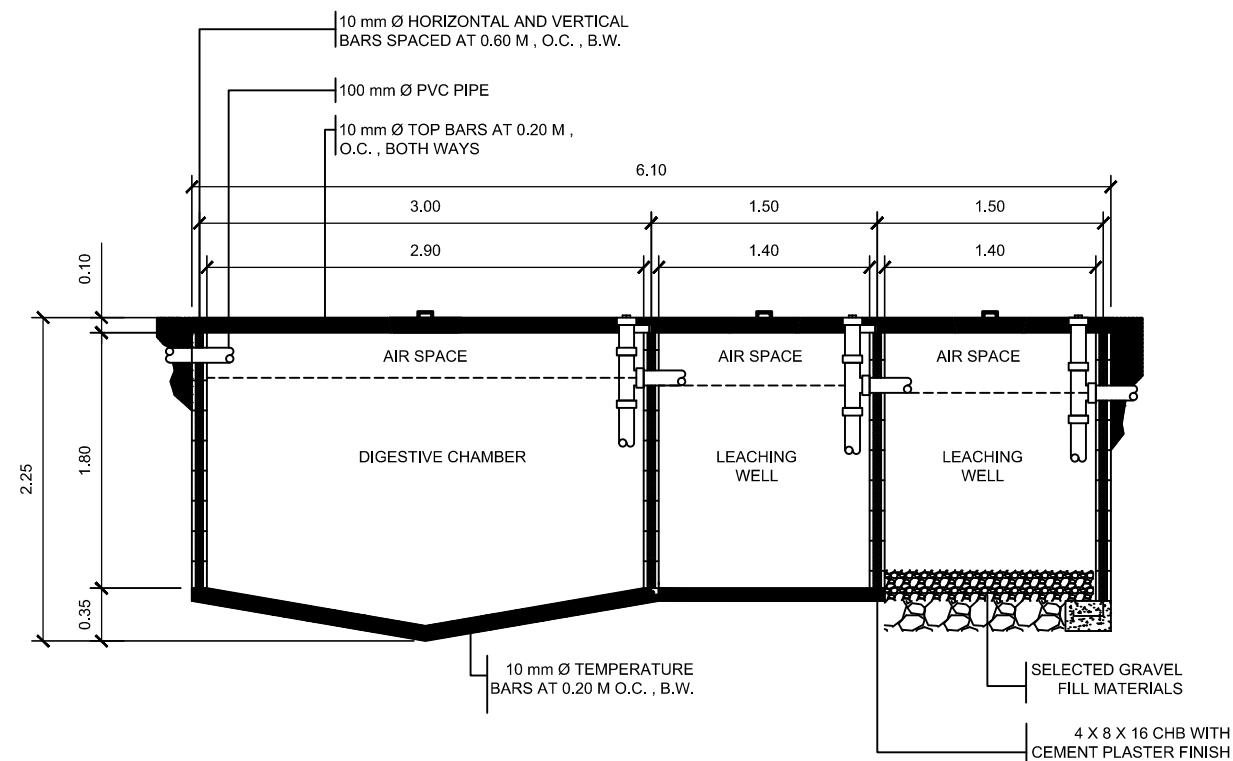
F	FAUCET
FD	FLOOR DRAIN
WC	WATER CLOSET
CO	CLEAN-OUT
DS	DOWNSPOUT
M	WATER METER
WHL	WALL HUNG LAVATORY
ST	SEPTIC TANK
MVTR	MAIN VENT THRU ROOF
GV	GATE VALVE
URI	URINAL
WEP	WATER ENTRANCE PIPE
	1/2" Ø WATER LINE (G.I. PIPE)
	2" Ø MVTR & FLOOR DRAIN
	3" Ø ROOF DRAIN PIPE
	4" Ø SOIL PIPE (WASTE/SANITARY)
B	BIDET



1 VICINITY MAP  
P-1 SCALE NTS



2 DETAIL OF SEPTIC TANK  
P-1 SCALE 1:50M



3 ELEVATION DETAIL OF SEPTIC TANK  
P-1 SCALE 1:50M



PROJECT TITLE :  
CONSTRUCTION OF 2-STOREY 8-CL  
ACADEMIC BUILDING WITH COMPLETE  
FURNITURE & FIXTURES  
IN DAPIWAK, DUMINGAG CAMPUS


LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR

PREPARED BY:

  
AIVY B. GAPOL, CE  
ENGINEERING ASSISTANT


DATE:

CHECKED & SUBMITTED BY:

  
PANGASIAN B. MAMINTAS, CE  
COLLEGE ENGINEER

DATE:

NOTED BY:

  
NANETTE D. BILBAO, Ed.D  
DUMINGAG CAMPUS ADMINISTRATOR


DATE:

RECOMMENDING APPROVAL:

  
RODRIGO P. MILLARES JR., REE. ENP.  
PLANNING & DEVELOPMENT DIRECTOR

DATE:

APPROVED:

  
MARY JOCELYN V. BATTUNG, Ph.D.  
JHSC - PRESIDENT

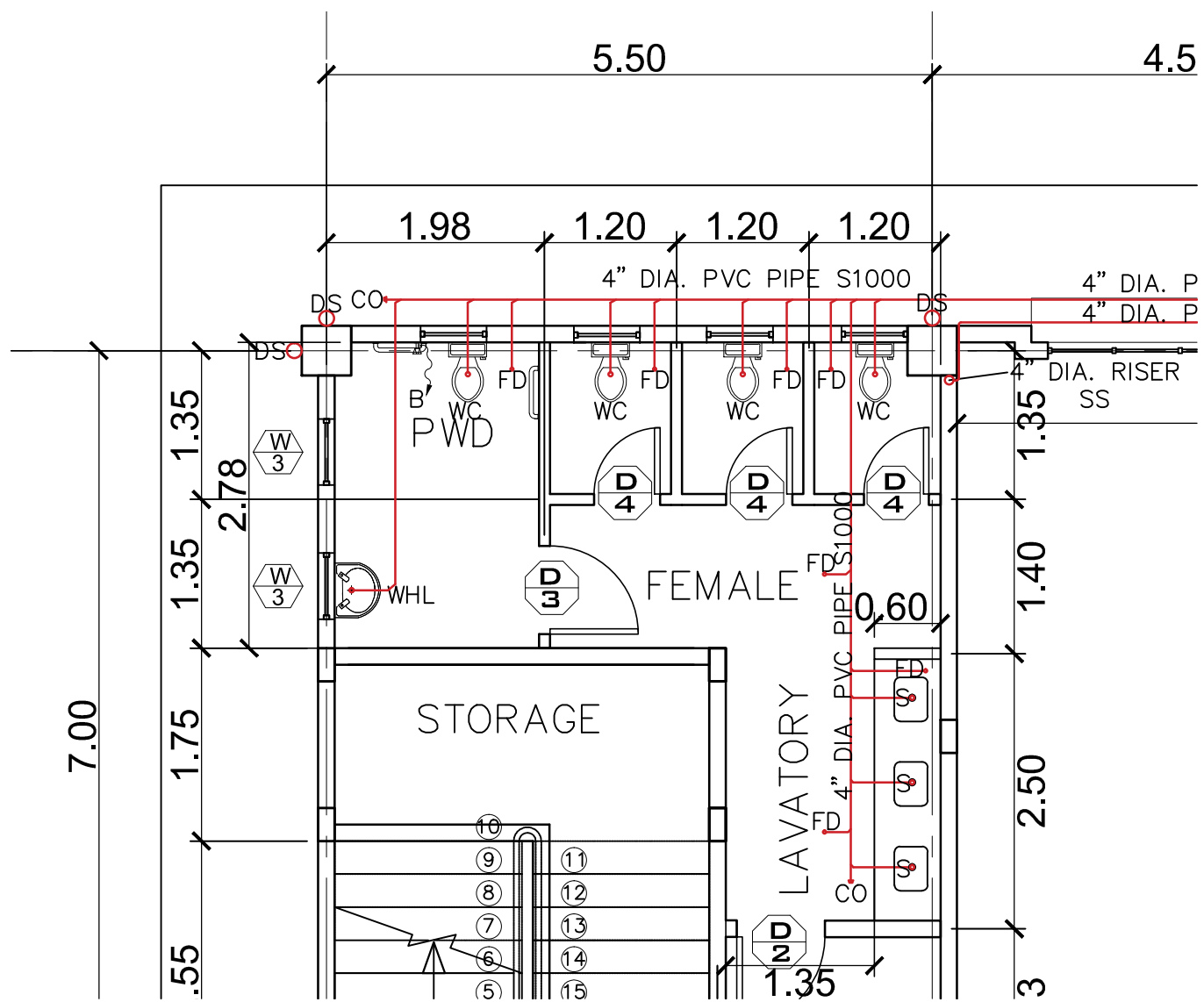
DATE:

AS SHOWN

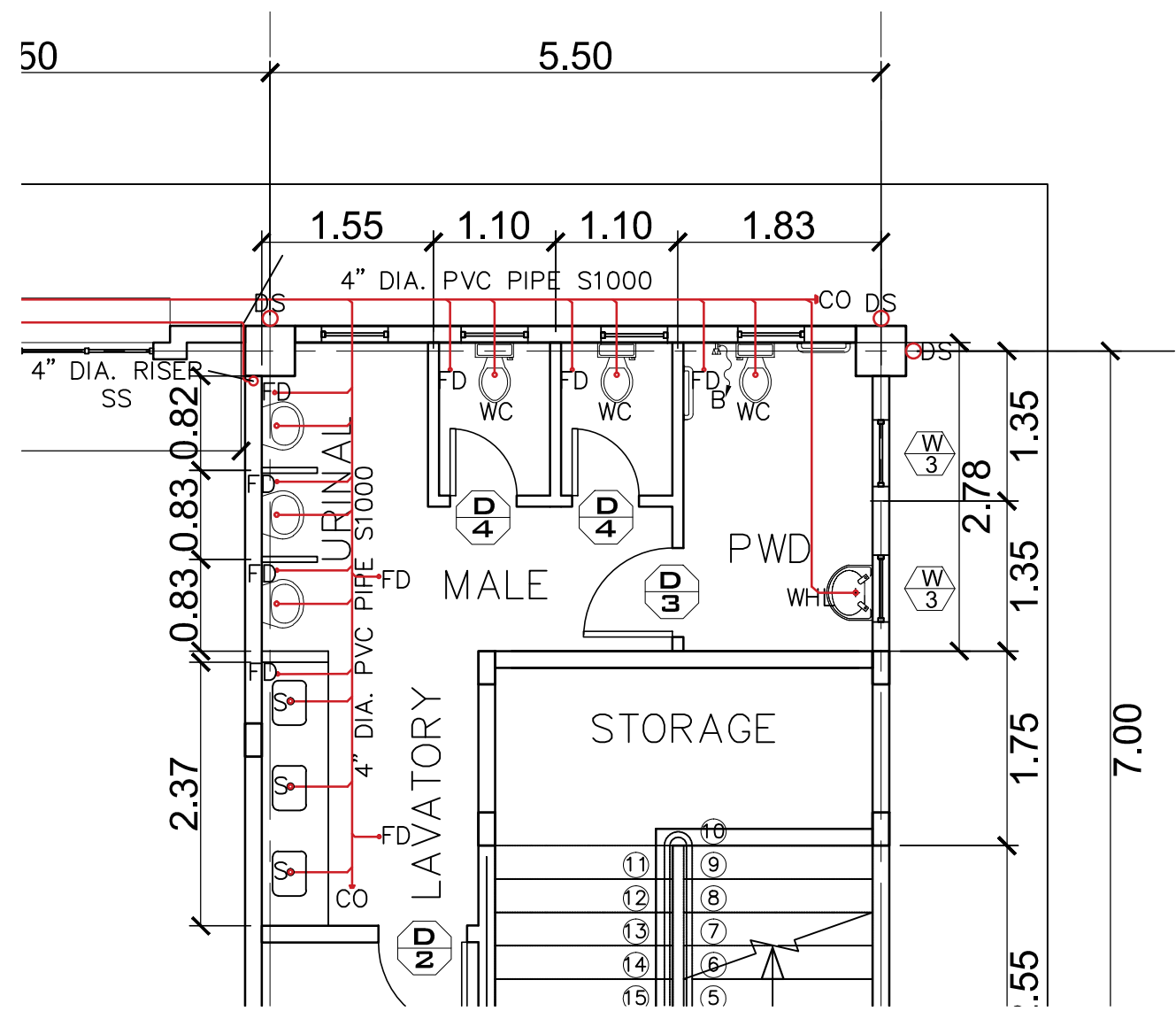
P-1  
1 | 13





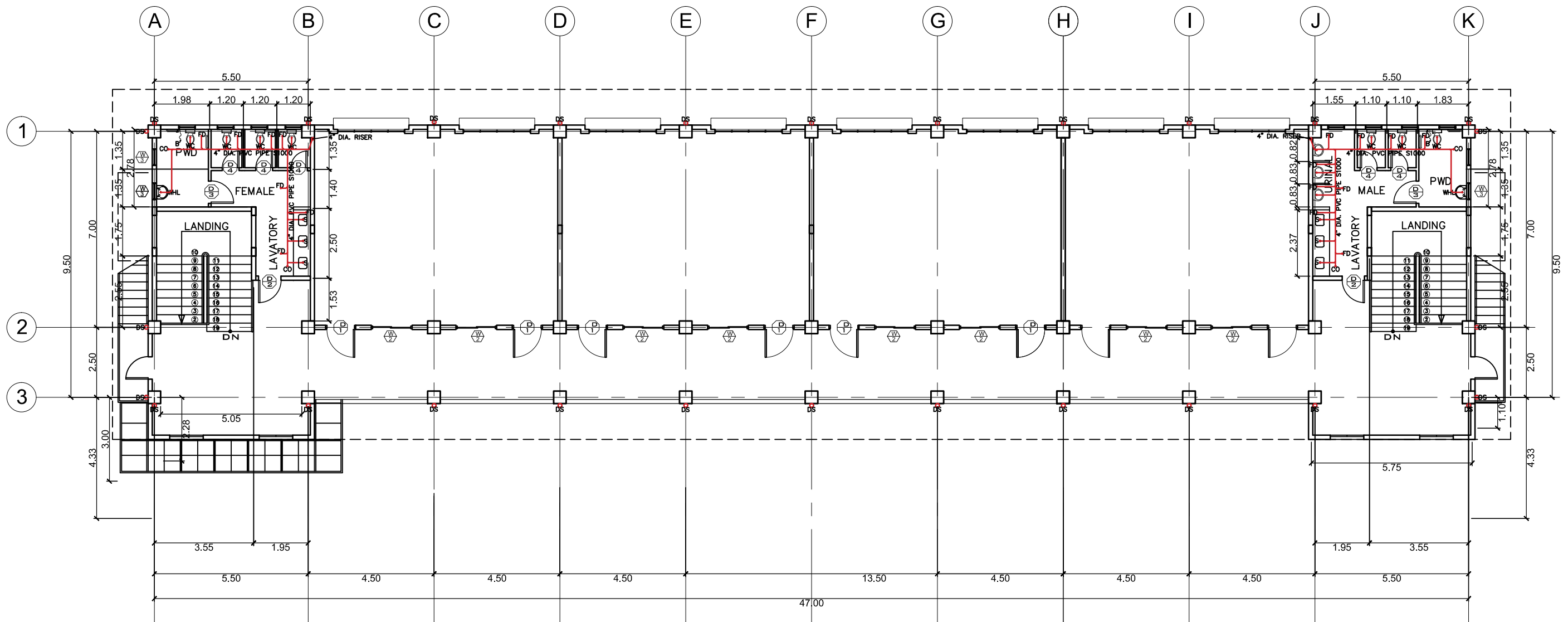


1 BLOW - UP OF GND. FLR. FEMALE SANITARY LAY - OUT  
P-4 SCALE 1:60M









2 BLOW - UP OF GND. FLR. MALE SANITARY LAY - OUT  
P-4 SCALE 1:60M

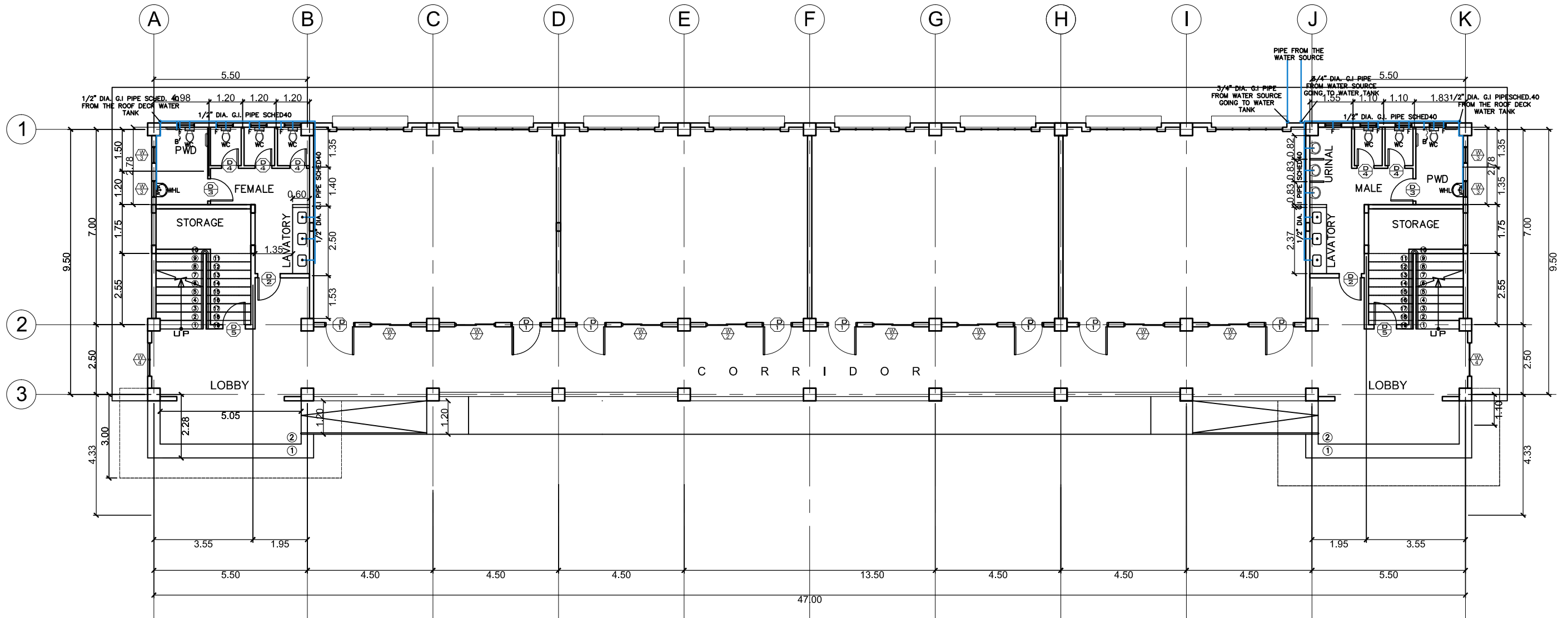
	PROJECT TITLE : <b>CONSTRUCTION OF 2-STOREY 8-CL          ACADEMIC BUILDING WITH COMPLETE          FURNITURE &amp; FIXTURES          IN DAPIWAK, DUMINGAG CAMPUS</b>	PREPARED BY:  <b>AIVY B. GAPOL, CE</b> ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY:  <b>PANCASIAN B. MAMINTAS, CE</b> COLLEGE ENGINEER	NOTED BY:  <b>NANETTE D. BILBAO, Ed.D</b> DUMINGAG CAMPUS ADMINISTRATOR	RECOMMENDING APPROVAL:  <b>RODRIGO P. MILLARES JR., REE, ENP.</b> PLANNING & DEVELOPMENT DIRECTOR	APPROVED:  <b>MARY JOCELYN V. BATTUNG, Ph.D.</b> JHSCS - PRESIDENT	AS SHOWN	P-4 4 13
	LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR	DATE :	DATE :	DATE :	DATE :	DATE :		






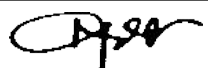


1
**SECOND FLOOR SANITARY LAY - OUT**  
P-5 SCALE 1:150M

	<b>PROJECT TITLE :</b> CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE & FIXTURES IN DAPIWAK, DUMINGAG CAMPUS <small>LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR</small>	<b>PREPARED BY:</b>  <u>AIVY B. GAPOL, CE</u> <small>ENGINEERING ASSISTANT</small>	<b>CHECKED &amp; SUBMITTED BY:</b>  <u>PANGASIAN B. MAMINTAS, CE</u> <small>COLLEGE ENGINEER</small>	<b>NOTED BY:</b>  <u>NANETTE D. BILBAO, Ed.D</u> <small>DUMINGAG CAMPUS ADMINISTRATOR</small>	<b>RECOMMENDING APPROVAL:</b>  <u>RODRIGO P. MILLARES JR., REE. ENP.</u> <small>PLANNING &amp; DEVELOPMENT DIRECTOR</small>	<b>APPROVED:</b>  <u>MARY JOCELYN W. BATTUNG, Ph.D.</u> <small>JHCS PRESIDENT</small>	AS SHOWN	<span style="border: 1px solid black; border-radius: 50%; padding: 5px;">P-5</span> <span style="border: 1px solid black; border-radius: 50%; padding: 5px;">5   13</span>
		DATE :	DATE :	DATE :	DATE :	DATE :		





1
**GROUND FLOOR WATER DISTRIBUTION LAY - OUT**  
P-7 SCALE 1:150M

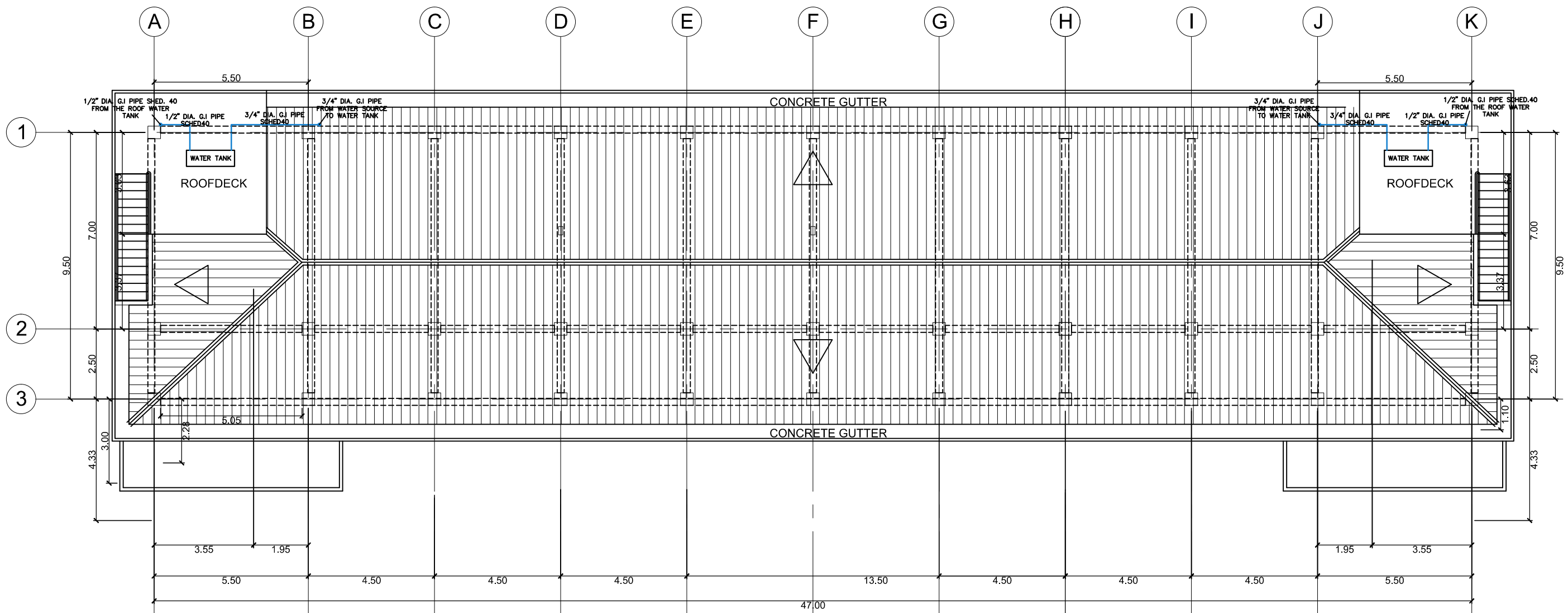
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LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR		DATE :	DATE :	DATE :	DATE :	DATE :		






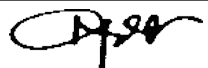










1
**ROOF PLAN WATER DISTRIBUTION LAY - OUT**  
 P-II SCALE 1:150M

	PROJECT TITLE : <b>CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE &amp; FIXTURES IN DAPIWAK, DUMINGAG CAMPUS</b>	PREPARED BY:  <b>AIVY B. GAPOL, CE</b> ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY:  <b>PANGASIAN B. MAMINTAS, CE</b> COLLEGE ENGINEER	NOTED BY:  <b>NANETTE D. BILBAO, Ed.D</b> DUMINGAG CAMPUS ADMINISTRATOR	RECOMMENDING APPROVAL:  <b>RODRIGO P. MILLARES JR., REE. ENP.</b> PLANNING & DEVELOPMENT DIRECTOR	APPROVED:  <b>MARY JOCELYN V. BATTUNG, Ph.D.</b> JHCS - PRESIDENT	AS SHOWN	<span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">P-11</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">1113</span>
	LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR	DATE :	DATE :	DATE :	DATE :	DATE :		





PANELBOARD: LPA FLUSH MOUNTED, NEMA 1 ENCLOSURE WITH GROUND TERMINAL

CKT. NO.	LOAD DESCRIPTION	VA LOAD	CIRCUIT LOAD					WIRE & CONDUIT SIZE
			VOLT	AMPERE	AT	AF	kAIC	
1	RECESSED PIN LIGHT (25*40W)	1000	230	4.35	15	60	10	2 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC + 1 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC
2	LIGHT OUTLETS (24*40W)	960	230	4.17	15	60	10	2 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC + 1 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC
3	LIGHT OUTLETS (24*40W)	960	230	4.17	15	60	10	2 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC + 1 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC
4	RECESSED PIN LIGHT (25*40W)	1000	230	4.35	15	60	10	2 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC + 1 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC
5	SPARE							
6	SPARE							
<b>TOTAL</b>		<b>3920</b>						

TOTAL CONNECTED LOADS: 3920 VA  
I<sub>L</sub> @ 85% DF  
I<sub>L</sub> =  $\frac{3920}{230} \times 0.85 = 14.49$  AMPERES

LPA MAIN = 40 AT, 2P, 240V, 18kAIC

# GENERAL NOTES :

- ALL ELECTRICAL WORKS SHALL COMPLY WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
- THE ELECTRICAL SERVICE POWER SHALL BE 1-PHASE, 2-WIRE, 230V AC, 60Hz.
- WIRING METHOD SHALL BE AS FOLLOWS:  
RIGID STEEL CONDUIT OR POLYVINYL CHLORIDE CONDUIT SCHEDULE 40 SHALL BE USED AS SPECIFIED IN THE PLAN.
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE WIRE FOR POWER AND LIGHTING CIRCUIT
- ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED FOR THE PARTICULAR LOCATION AND USAGE.
- EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:  
a. LIGHT SWITCH - 1.20M ABOVE FINISH FLOOR  
b. CONVENIENCE OUTLET - 0.3M ABOVE FINISH FLOOR
- ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

## LEGEND

SYMBOL	DESCRIPTION
	1-18 WATTS COMPACT FLUORESCENT LAMP WITH MEDIUM BASE, KEYLESS TYPE PORCELAIN RECEPTACLE
	3-BULB, 200 WATTS PENDANT LIGHT
	1 x 36 WATTS FLUORESCENT LIGHTING FIXTURE, BOX TYPE
	2 x 36 WATTS FLUORESCENT LIGHTING FIXTURE, BOX TYPE WITH CANOPY BASE AND STEM 1.5 FT. (450mm) LENGTH SIMILAR TO AMCO AP-1113-1.5 OR APPROVED EQUAL
	2 x 36 WATTS FLUORESCENT LIGHTING FIXTURE, BOX TYPE
	WALL FAN OUTLET
	SINGLE POLE WALL SWITCH
	S <sub>2</sub> - DUPLEX SWITCH, 2 SINGLE POLE SWITCHES ON ONE-GANG SWITCH PLATE
	S <sub>3W</sub> - THREE WAY WALL SWITCH
	S <sub>fc</sub> - FAN CONTROL SWITCH
	RACEWAY CONDUIT CONCEALED IN CEILING
	RACEWAY CONDUIT CONCEALED UNDER FLOOR
	PANELBOARD, MARKED AS "LP"
	CKT. BREAKER, RATING AS INDICATED
	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 15 AMPS, 240 VOLT
	WP - WEATHERPROOF DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, 15 AMPS, 240 VOLT
	CIRCUIT HOMERUN
	ENCLOSED AIR CIRCUIT BREAKER
	FIRE ALARM CONTROL PANEL
	FIRE ALARM STATION OUTLET
	FIRE ALARM BELL
	SERVICE METER
	SERVICE ENTRANCE
	MDP - MAIN DISTRIBUTION PANELBOARD

PANELBOARD: LPB FLUSH MOUNTED, NEMA 1 ENCLOSURE WITH GROUND TERMINAL

CKT. NO.	LOAD DESCRIPTION	VA LOAD	CIRCUIT LOAD					WIRE & CONDUIT SIZE
			VOLT	AMPERE	AT	AF	kAIC	
1	RECESSED PIN LIGHT (22*40W)	880	230	3.83	15	60	10	2 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC + 1 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC
2	LIGHT OUTLETS (24*40W)	960	230	4.17	15	60	10	2 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC + 1 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC
3	LIGHT OUTLETS (24*40W)	960	230	4.17	15	60	10	2 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC + 1 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC
4	RECESSED PIN LIGHT (22*40W)	880	230	3.83	15	60	10	2 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC + 1 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC
5	RECESSED PIN LIGHT (11*40W)	440	230	1.91	15	60	10	2 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC + 1 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC
6	RECESSED PIN LIGHT (11*40W)	440	230	1.91	15	60	10	2 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC + 1 - 2.0mm <sup>2</sup> THHN WIRE, 12.7mmØ PVC
7	SPARE							
8	SPARE							
<b>TOTAL</b>		<b>4560</b>						

TOTAL CONNECTED LOADS: 4560 VA  
I<sub>L</sub> @ 85% DF  
I<sub>L</sub> =  $\frac{4560}{230} \times 0.85 = 16.85$  AMPERES

LPB MAIN = 40 AT, 2P, 240V, 18kAIC

	PROJECT TITLE :	PREPARED BY:	CHECKED AND SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT:	SHEET NO:
	CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE & FIXTURES IN DAPIWAK, DUMINGAG CAMPUS LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR	 KENAN B. SAMSON, MSEE ELECTRICAL ENGINEER	 PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	 NANETTE D. BILBAO, Ed.D DUMINGAG CAMPUS ADMINISTRATOR			 MARY JOCELYN V. BATTUNG, Ph.D. JHCSC-PRESIDENT	AS SHOWN

PANELBOARD: PPA FLUSH MOUNTED, NEMA 1 ENCLOSURE WITH GROUND TERMINAL

CKT. NO.	LOAD DESCRIPTION	VA LOAD	CIRCUIT LOAD					WIRE & CONDUIT SIZE
			VOLT	AMPERE	AT	AF	kAIC	
1	12 CONVENIENCE OUTLETS (180*12)	2160	230	9.39	25	85	10	2 - 3.5mm <sup>2</sup> + 1 - 3.5mm <sup>2</sup> , THHN WIRE, 19mmØ PVC
2	12 CONVENIENCE OUTLETS (180*12)	2160	230	9.39	25	85	10	2 - 3.5mm <sup>2</sup> + 1 - 3.5mm <sup>2</sup> , THHN WIRE, 19mmØ PVC
3	12 CONVENIENCE OUTLETS (180*12)	2160	230	9.39	25	85	10	2 - 3.5mm <sup>2</sup> + 1 - 3.5mm <sup>2</sup> , THHN WIRE, 19mmØ PVC
4	12 CONVENIENCE OUTLETS (180*12)	2160	230	9.39	25	85	10	2 - 3.5mm <sup>2</sup> + 1 - 3.5mm <sup>2</sup> , THHN WIRE, 19mmØ PVC
5	2 ACU (2 * 3.5 * 746)	5222	230	22.70	40	85	10	2 - 5.5mm <sup>2</sup> + 1 - 5.5mm <sup>2</sup> THHN WIRE, 25mmØ PVC
6	2 ACU (2 * 3.5 * 746)	5222	230	22.70	40	85	10	2 - 5.5mm <sup>2</sup> + 1 - 5.5mm <sup>2</sup> THHN WIRE, 25mmØ PVC
7	SPARE							
8	SPARE							
TOTAL		19084						

TOTAL CONNECTED LOADS: 19084 VA  
 $I_L @ 85\% DF$   
 $I_L = \frac{19084}{230} \times 0.85 = 70.53 \text{ AMPERES}$

PPA MAIN = 85 AT, 2P, 240V, 18kAIC

PANELBOARD: PPA FLUSH MOUNTED, NEMA 1 ENCLOSURE WITH GROUND TERMINAL

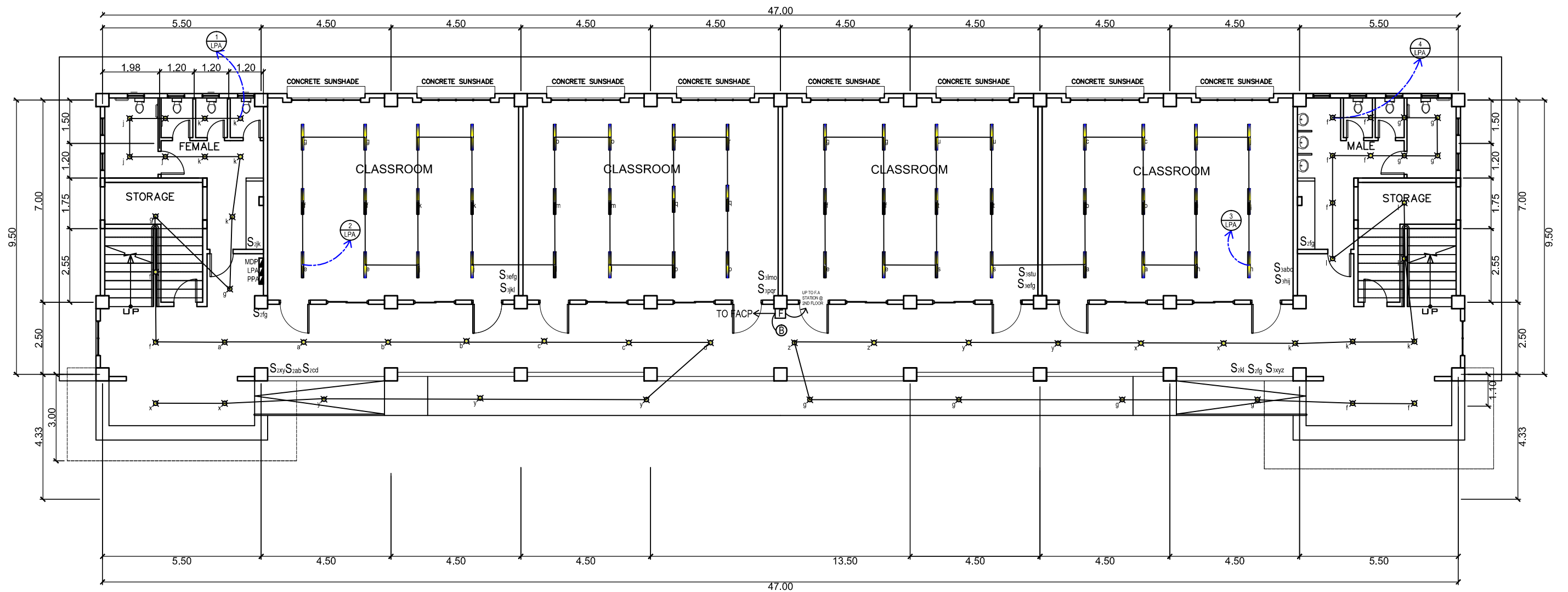
CKT. NO.	LOAD DESCRIPTION	VA LOAD	CIRCUIT LOAD					WIRE & CONDUIT SIZE
			VOLT	AMPERE	AT	AF	kAIC	
1	12 CONVENIENCE OUTLETS (180*12)	2160	230	9.39	25	85	10	2 - 3.5mm <sup>2</sup> + 1 - 3.5mm <sup>2</sup> , THHN WIRE, 19mmØ PVC
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5	2 ACU (2 * 3.5 * 746)	5222	230	22.70	40	85	10	2 - 5.5mm <sup>2</sup> + 1 - 5.5mm <sup>2</sup> THHN WIRE, 25mmØ PVC
6	2 ACU (2 * 3.5 * 746)	5222	230	22.70	40	85	10	2 - 5.5mm <sup>2</sup> + 1 - 5.5mm <sup>2</sup> THHN WIRE, 25mmØ PVC
7	SPARE							
8	SPARE							
TOTAL		19084						

TOTAL CONNECTED LOADS: 19084 VA  
 $I_L @ 85\% DF$   
 $I_L = \frac{19084}{230} \times 0.85 = 70.53 \text{ AMPERES}$



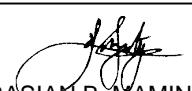



PPB MAIN = 85 AT, 2P, 240V, 18kAIC





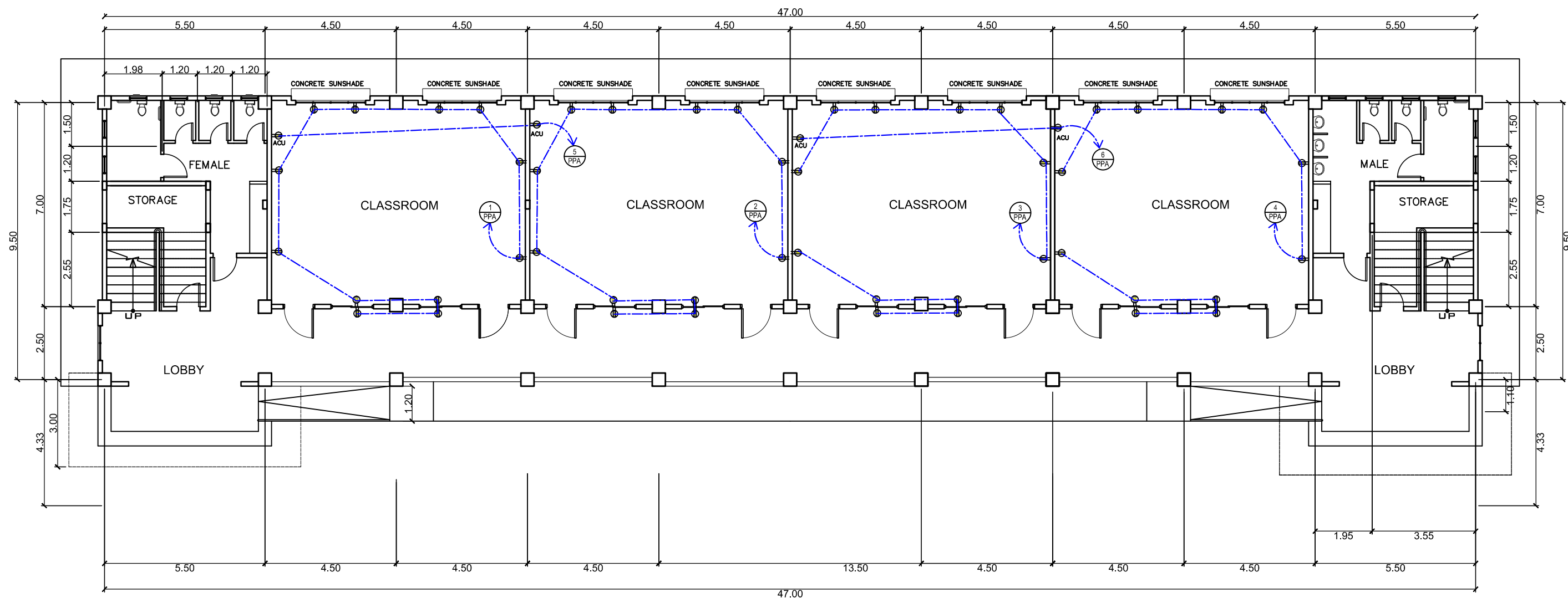



**GROUND FLOOR LIGHTING LAY - OUT**  
 SCALE 1:150




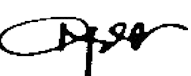


	PROJECT TITLE : <b>CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE &amp; FIXTURES IN DAPIWAK, DUMINGAG CAMPUS</b> <small>LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR</small>	PREPARED BY:  <b>KENAN B. SAMSON, MSEE</b> <small>ELECTRICAL ENGINEER</small>	CHECKED AND SUBMITTED BY:  <b>PANGASIAN B. MAMINTAS, CE</b> <small>COLLEGE ENGINEER</small>	NOTED BY:  <b>NANETTE D. BILBAO, Ed.D</b> <small>DUMINGAG CAMPUS ADMINISTRATOR</small>	RECOMMENDING APPROVAL:  <b>RODRIGO P. MILLARES, JR., REE, EnP.</b> <small>PLANNING AND DEVELOPMENT DIRECTOR</small>	APPROVED:  <b>MARY JOCELYN V. BATTUNG, Ph.D.</b> <small>JHCSG-PRESIDENT</small>	SHEET CONTENT: <b>AS SHOWN</b>	SHEET NO.: <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">E-4</div> <hr style="width: 100%;"/> <div style="text-align: center;">48</div> </div>
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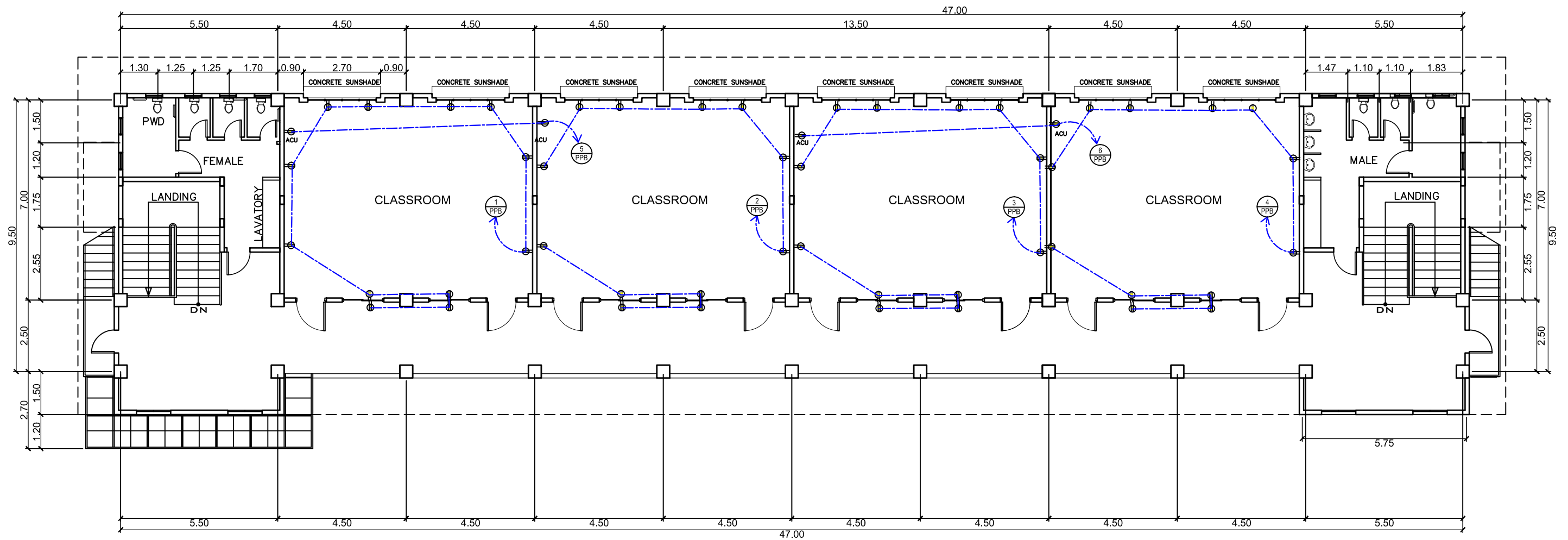






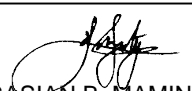
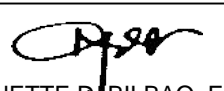





**GROUND FLOOR POWER LAY - OUT**  
 SCALE 1:150

	PROJECT TITLE : <b>CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE &amp; FIXTURES IN DAPIWAK, DUMINGAG CAMPUS</b> LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR	PREPARED BY:  <b>KENAN B. SAMSON, MSEE</b> ELECTRICAL ENGINEER	CHECKED AND SUBMITTED BY:  <b>PANGASIAN B. MAMINTAS, CE</b> COLLEGE ENGINEER	NOTED BY:  <b>NANETTE D. BILBAO, Ed.D</b> DUMINGAG CAMPUS ADMINISTRATOR	RECOMMENDING APPROVAL:  <b>RODRIGO P. MILLARES, JR., REE, EnP.</b> PLANNING AND DEVELOPMENT DIRECTOR	APPROVED:  <b>MARY JOCELYN V. BATTUNG, Ph.D.</b> JHCSC/PRESIDENT	SHEET CONTENT: <b>AS SHOWN</b>	SHEET NO.: <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <span style="font-size: 12px; font-weight: bold;">E-7</span>  <span style="font-size: 12px; font-weight: bold;">7 8</span> </div>	
DATE :		DATE :		DATE :		DATE :			




**SECOND FLOOR POWER LAY - OUT**  
 SCALE 1:150

	PROJECT TITLE : <b>CONSTRUCTION OF 2-STOREY 8-CL ACADEMIC BUILDING WITH COMPLETE FURNITURE &amp; FIXTURES IN DAPIWAK, DUMINGAG CAMPUS</b> <small>LOCATION : DAPIWAK, DUMINGAG, ZAMBOANGA DEL SUR</small>	PREPARED BY:  <b>KENAN B. SAMSON, MSEE</b> <small>ELECTRICAL ENGINEER</small>	CHECKED AND SUBMITTED BY:  <b>PANGASIAN B. MAMINTAS, CE</b> <small>COLLEGE ENGINEER</small>	NOTED BY:  <b>NANETTE D. BILBAO, Ed.D</b> <small>DUMINGAG CAMPUS ADMINISTRATOR</small>	RECOMMENDING APPROVAL:  <b>RODRIGO P. MILLARES, JR., REE, EnP.</b> <small>PLANNING AND DEVELOPMENT DIRECTOR</small>	APPROVED:  <b>MARY JOCELYN V. BATTUNG, Ph.D.</b> <small>JHCSC-PRESIDENT</small>	SHEET CONTENT: <b>AS SHOWN</b>	SHEET NO.: <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <span style="font-size: 10px; font-weight: bold;">E-8</span>  <span style="font-size: 10px; font-weight: bold;">8 / 8</span> </div>
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