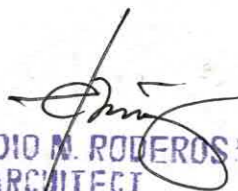
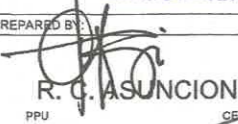
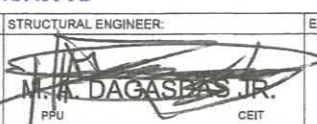
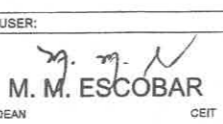
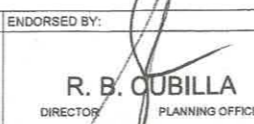
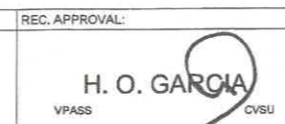
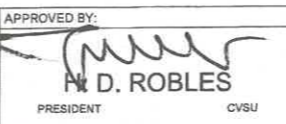
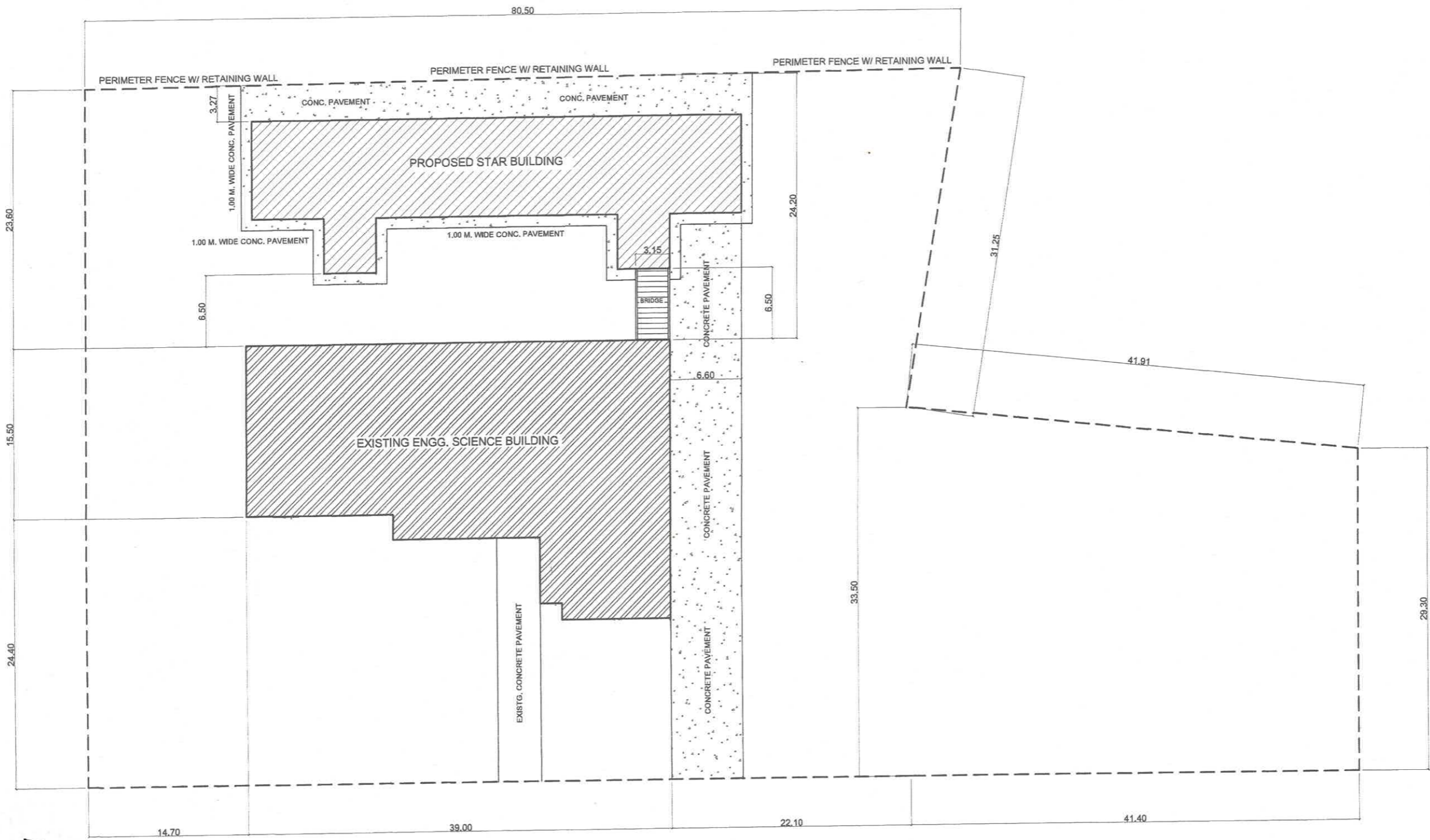



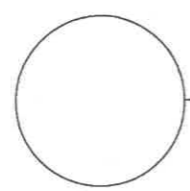
PERSPECTIVE

  
**ELPIDIO M. RODEROS JR.**  
 ARCHITECT  
 PRC NO. 46505  
 EXP. 07-23-2022  
 PTR NO. 212/159  
 DATE: 01/04/21  
 PLACE: INDANG, CAVITE

PREPARED BY:	STRUCTURAL ENGINEER:	END - USER:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION	IMPLEMENTING AGENCY:	SHEET NO:
 <b>R. C. ASUNCION</b> <small>PPU</small>	 <b>M. A. DAGASBAS JR.</b> <small>PPU</small>	 <b>M. M. ESCOBAR</b> <small>DEAN</small>	 <b>R. B. CUBILLA</b> <small>DIRECTOR PLANNING OFFICE</small>	 <b>H. O. GARCIA</b> <small>VPASS</small>	 <b>M. D. ROBLES</b> <small>PRESIDENT</small>	<b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> <small>CAVITE STATE UNIVERSITY, MAIN CAMPUS</small>	<b>CAVITE STATE UNIVERSITY</b> <small>INDANG, CAVITE</small>	<b>A</b> <b>0</b>



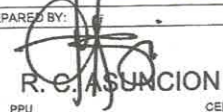
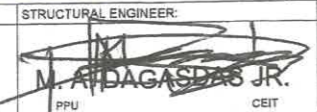
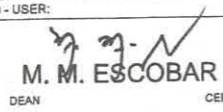
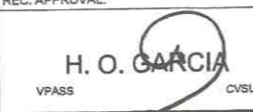
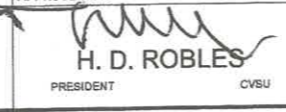
  
**ELPIDIO N. RODEROS JR.**  
 ARCHITECT  
 PRC NO. 46505  
 EXP. 02-23-2072  
 PTR NO. 2124159  
 DATE: 01/04/21  
 PLACE: INDANG, CAVITE

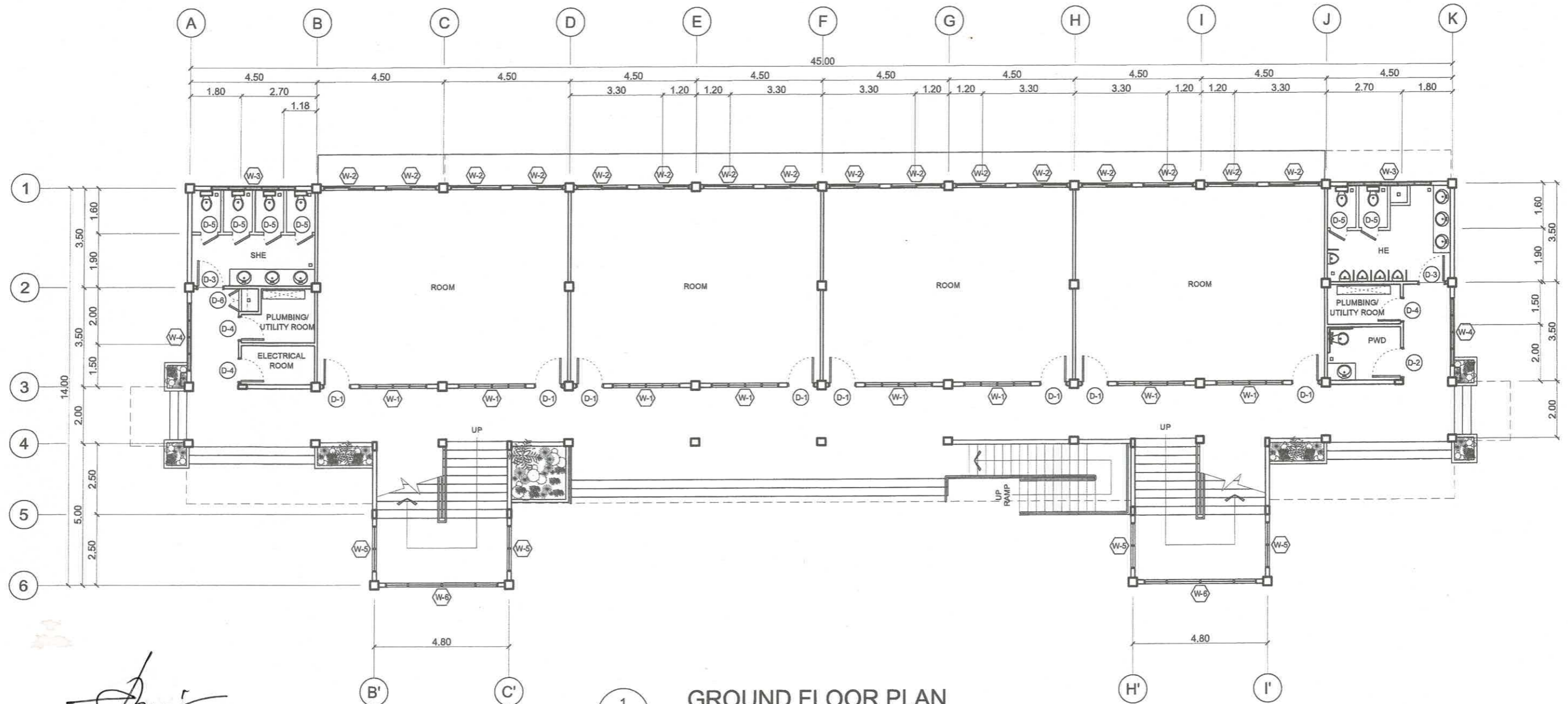


# SITE DEVELOPMENT PLAN

SCALE

1 : 400 m

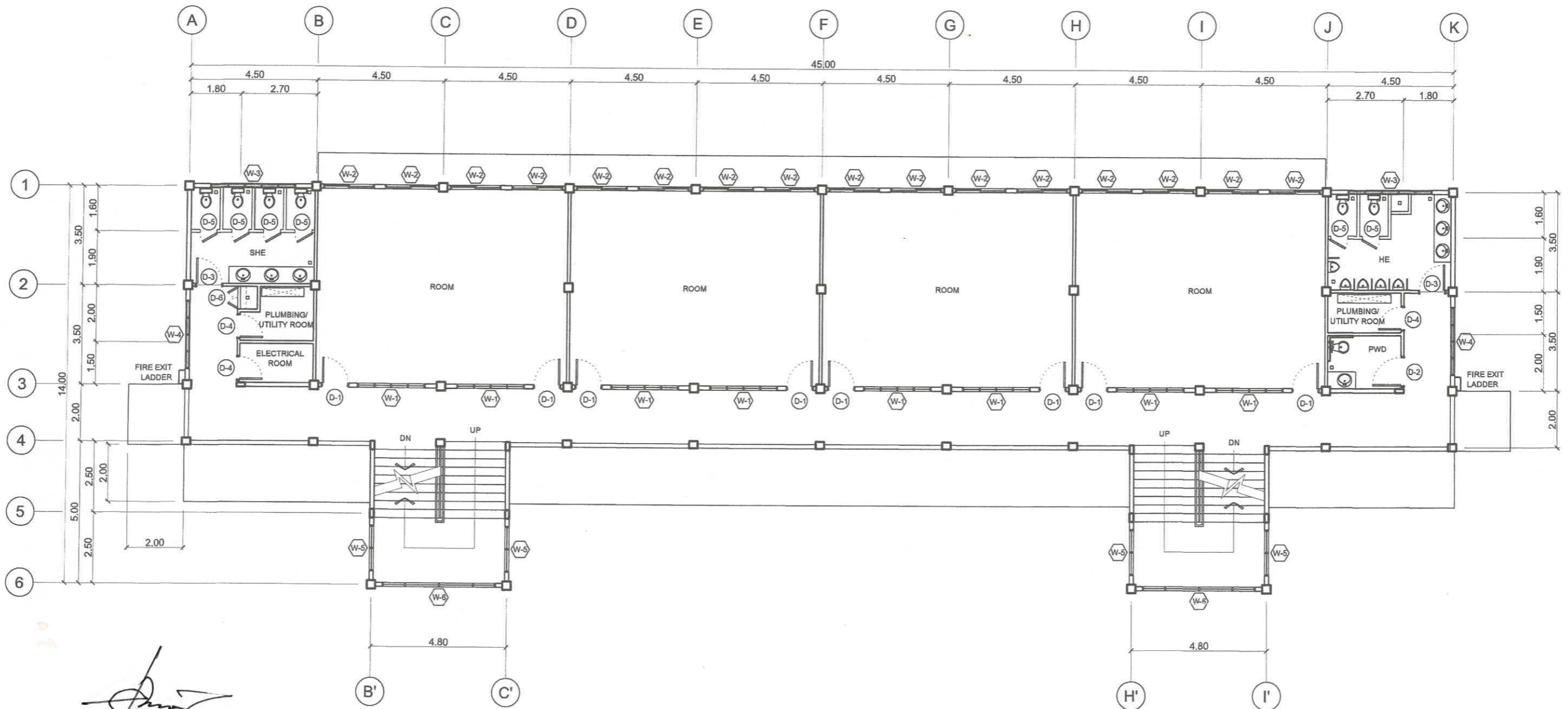
PREPARED BY:  <b>R. C. ASUNCION</b> <small>PPU CEIT</small>	STRUCTURAL ENGINEER:  <b>M. ADAGASDAS JR.</b> <small>PPU CEIT</small>	END - USER:  <b>M. M. ESCOBAR</b> <small>DEAN CEIT</small>	ENDORSED BY: <b>R. B. CUBILLA</b> <small>DIRECTOR PLANNING OFFICE</small>	REC. APPROVAL:  <b>H. O. GARCIA</b> <small>VPASS CVSU</small>	APPROVED BY:  <b>H. D. ROBLES</b> <small>PRESIDENT CVSU</small>	PROJECT TITLE/ LOCATION <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> <small>CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE</small>	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO: <b>A / 00</b>
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1
A 1
**GROUND FLOOR PLAN**  
 SCALE 1 : 150 m

*Elpidio M. Roderos Jr.*  
**ELPIDIO M. RODEROS JR.,**  
**ARCHITECT**  
 PRC NO. 46505  
 EXP. 02-23-2022  
 PTR NO.: 2124159  
 DATE: 01/04/21  
 PLACE: INDANG, CAVITE

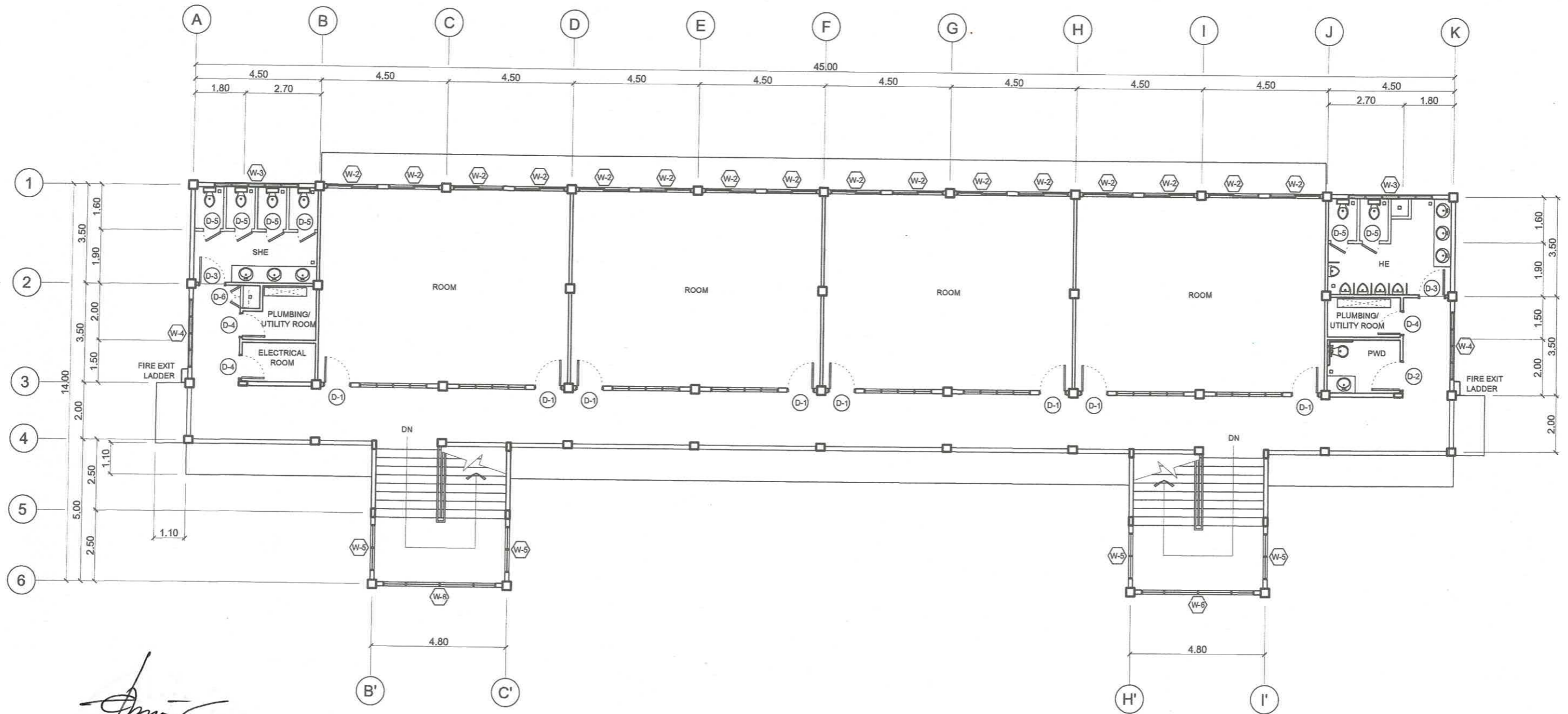
PREPARED BY: <i>R. C. Asuncion</i> <b>R. C. ASUNCION</b> <small>PPU CEIT</small>	STRUCTURAL ENGINEER: <i>M. M. Dagaspas Jr.</i> <b>M. M. DAGASPAS JR.</b> <small>PPU CEIT</small>	END - USER: <i>M. M. Escobar</i> <b>M. M. ESCOBAR</b> <small>DEAN CEIT</small>	ENDORSED BY: <i>R. B. Cubilla</i> <b>R. B. CUBILLA</b> <small>DIRECTOR PLANNING OFFICE</small>	REC. APPROVAL: <i>H. O. Garcia</i> <b>H. O. GARCIA</b> <small>VPASS CVSU</small>	APPROVED BY: <i>H. D. Robles</i> <b>H. D. ROBLES</b> <small>PRESIDENT CVSU</small>	PROJECT TITLE/ LOCATION <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> <small>CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE</small>	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO.: <b>A / 1</b>
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**ELPIDIO N. RODEROS JR.**  
 ARCHITECT  
 PRC NO. 46505  
 EXP. 02-23-2022  
 PTR NO.: 2/24/59  
 DATE: 9/04/21  
 PLACE: INDANG, CAVITE

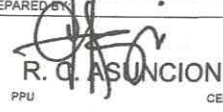
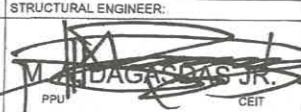
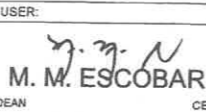
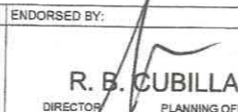
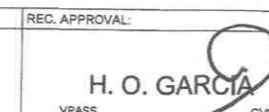
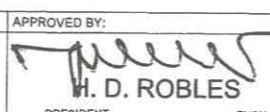

**SECOND FLOOR PLAN**  
 SCALE 1 : 150 m

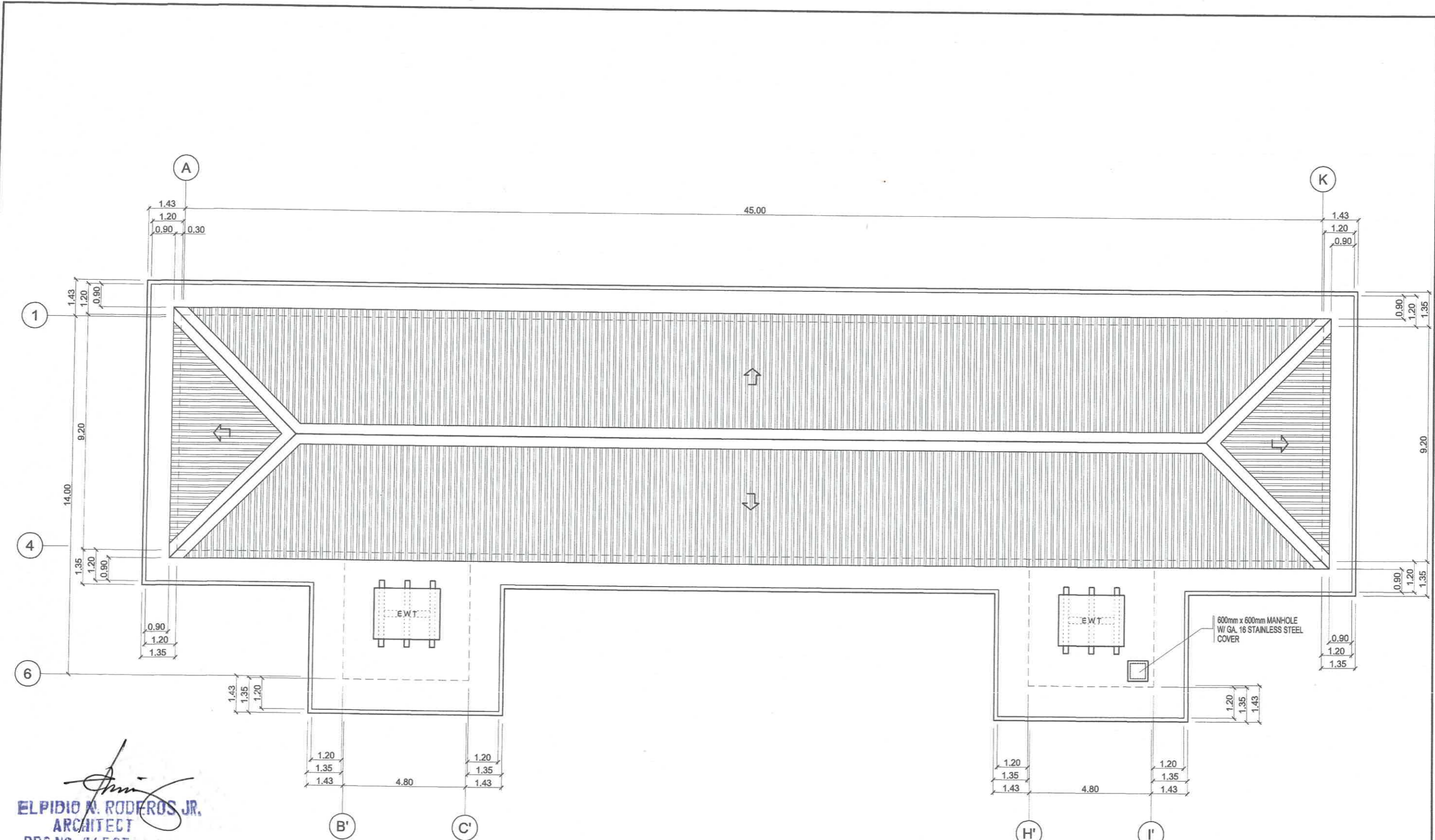
PREPARED BY:	STRUCTURAL ENGINEER:	END - USER:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION	IMPLEMENTING AGENCY:	SHEET NO.:
 <b>R. C. ASUNCION</b> <small>PPU CEIT</small>	 <b>M. A. DAGASOS JR.</b> <small>PPU CEIT</small>	 <b>M. M. ESCOBAR</b> <small>DEAN CEIT</small>	 <b>R. B. CUBILLA</b> <small>DIRECTOR PLANNING OFFICE</small>	 <b>H. O. GARCIA</b> <small>VPASS CVSU</small>	 <b>H. D. ROBLES</b> <small>PRESIDENT CVSU</small>	<b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> <small>CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE</small>	<b>CAVITE STATE UNIVERSITY</b>	<b>A / 2</b>




  
**ELPIDIO N. RODEROS JR.**  
 ARCHITECT  
 PRC NO. 46505  
 EXP. 07-23-2072  
 PTR NO. 2124159  
 DATE: 01/04/24  
 PLACE: INDANG, CAVITE




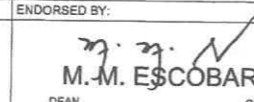
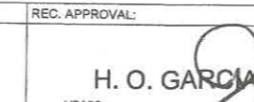
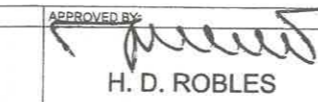
1 **THIRD FLOOR PLAN**  
A / 3 SCALE 1 : 150 m

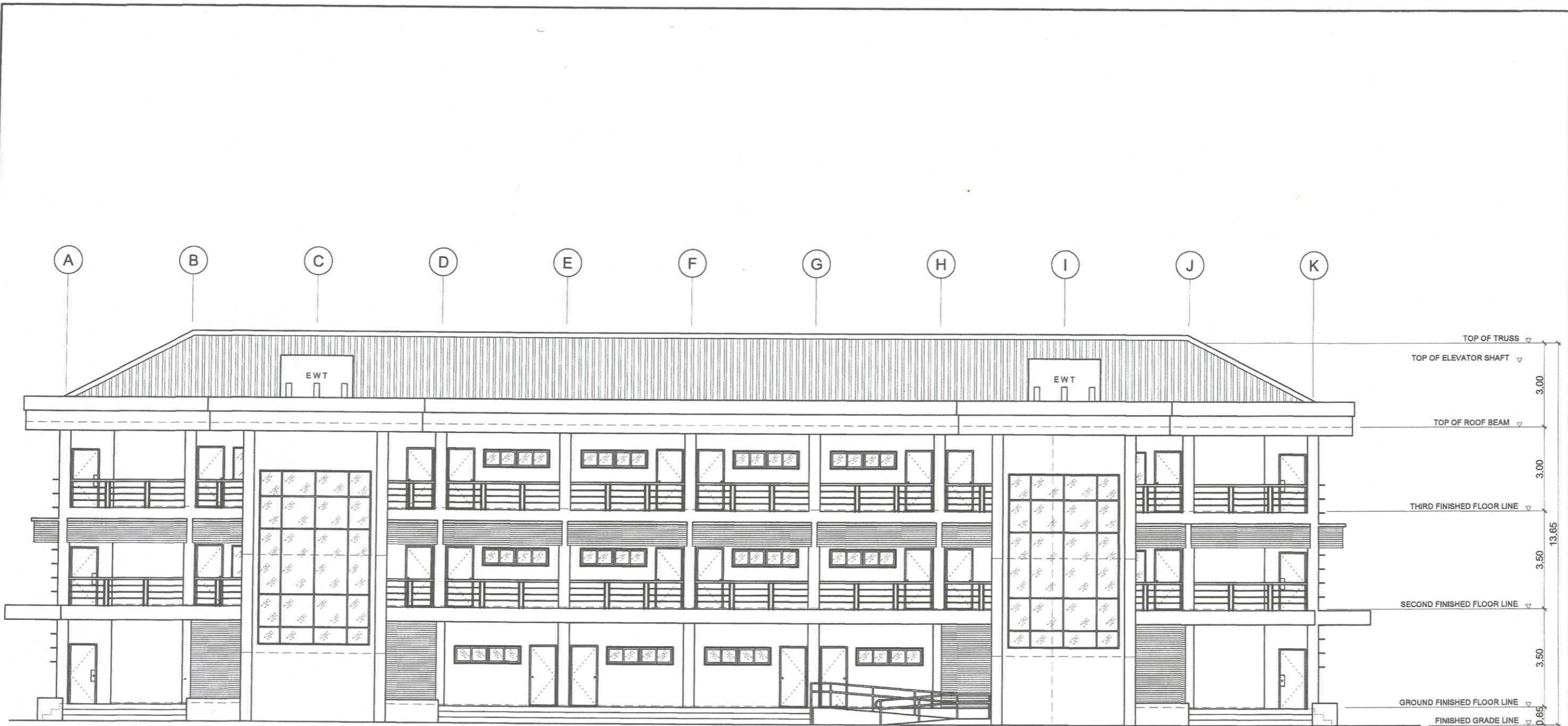
PREPARED BY:  <b>R. Q. ASUNCION</b> PPU CEIT	STRUCTURAL ENGINEER:  <b>M. M. ESCOBAR</b> PPU CEIT	END - USER:  <b>M. M. ESCOBAR</b> DEAN CEIT	ENDORSED BY:  <b>R. B. CUBILLA</b> DIRECTOR PLANNING OFFICE	REC. APPROVAL:  <b>H. O. GARCIA</b> VPASS CVSU	APPROVED BY:  <b>W. D. ROBLES</b> PRESIDENT CVSU	PROJECT TITLE/ LOCATION <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO.: <b>A / 3</b>
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**ELPIDIO N. RODEROS JR.**  
 ARCHITECT  
 PRC NO. 46505  
 EXP. 02-23-2022  
 PTR NO. 2124189  
 DATE: 01/04/21  
 PLACE: INDANG, CAVITE

1  
 A 4  
**ROOF PLAN**  
 SCALE 1 : 150 m

PREPARED BY:  <b>R. C. ASUNCION</b> <small>PPU CEIT</small>	STRUCTURAL ENGINEER:  <b>M. A. BAGASBAS JR.</b> <small>PPU CEIT</small>	END - USER:  <b>R. B. CUBILLA</b> <small>DIRECTOR PLANNING OFFICE</small>	ENDORSED BY:  <b>M.-M. ESCOBAR</b> <small>DEAN CEIT</small>	REC. APPROVAL:  <b>H. O. GARCIA</b> <small>VPASS CVSU</small>	APPROVED BY:  <b>H. D. ROBLES</b> <small>PRESIDENT CVSU</small>	PROJECT TITLE/ LOCATION: <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> <small>CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE</small>	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO: <b>A / 4</b>
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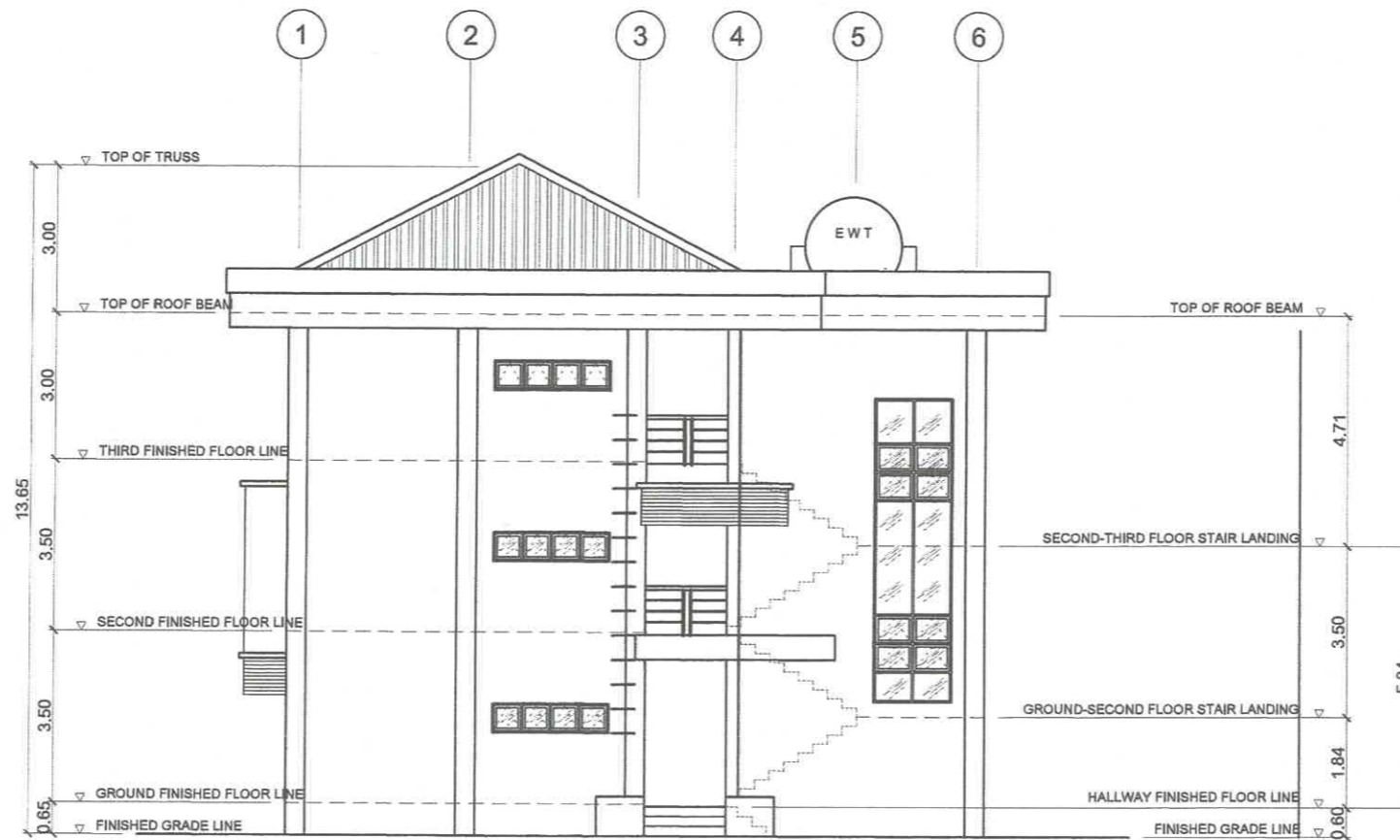
1  
A 5

FRONT ELEVATION

SCALE 1 : 150 m

*Elpidio N. Roderbs Jr.*  
**ELPIDIO N. RODERBS JR.**  
 ARCHITECT  
 PRC NO. 46505  
 EXP. 02-23-2022  
 PTR NO.: 224159  
 DATE: 01/04/21  
 PLACE: INDANG, CAVITE

PREPARED BY: <i>R. C. Asuncion</i> R. C. ASUNCION PPU	STRUCTURAL ENGINEER: <i>M. M. Escobar</i> M. M. ESCOBAR PPU	END - USER: <i>M. M. Escobar</i> M. M. ESCOBAR DEAN	ENDORSED BY: <i>R. B. Cubilla</i> R. B. CUBILLA DIRECTOR PLANNING OFFICE	REC. APPROVAL: <i>H. O. Garcia</i> H. O. GARCIA VPASS	APPROVED BY: <i>H. D. Robles</i> H. D. ROBLES PRESIDENT	PROJECT TITLE/LOCATION SCIENCE TECHNOLOGY & APPLIED RESEARCH (STAR) CENTER CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO.: A / 5
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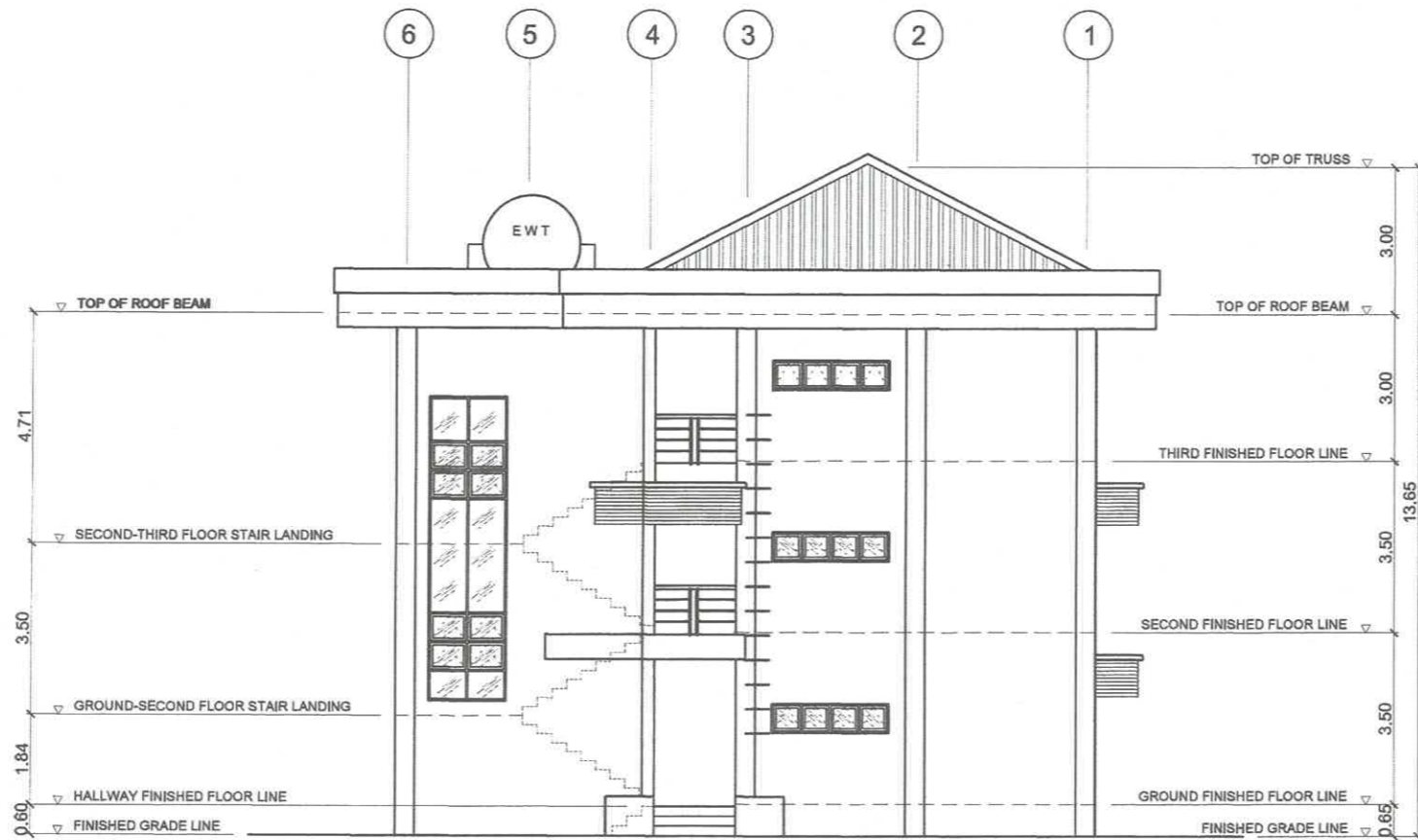


1  
A 6 LEFT SIDE ELEVATION  
SCALE 1:150 m

*Elpidio N. Roferos Jr.*  
**ELPIDIO N. ROFEROS JR.**  
 ARCHITECT  
 PRC NO. 46505  
 EXP. 02-23-2072  
 PTR NO. 724159  
 DATE: 01/04/24  
 PLACE: INDANG, CAVITE

PREPARED BY: <i>R. C. Asuncion</i> R. C. ASUNCION PPU	STRUCTURAL ENGINEER: <i>M. A. Dagasdas Jr.</i> M. A. DAGASDAS JR. PPU	END - USER: <i>M. M. Escobar</i> M. M. ESCOBAR DEAN	ENDORSED BY: <i>R. B. Cubilla</i> R. B. CUBILLA DIRECTOR PLANNING OFFICE	REC. APPROVAL: <i>H. O. Garcia</i> H. O. GARCIA VPASS CVSU	APPROVED BY: <i>M. D. Robles</i> M. D. ROBLES PRESIDENT CVSU	PROJECT TITLE/ LOCATION SCIENCE TECHNOLOGY & APPLIED RESEARCH (STAR) CENTER CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO: A 6
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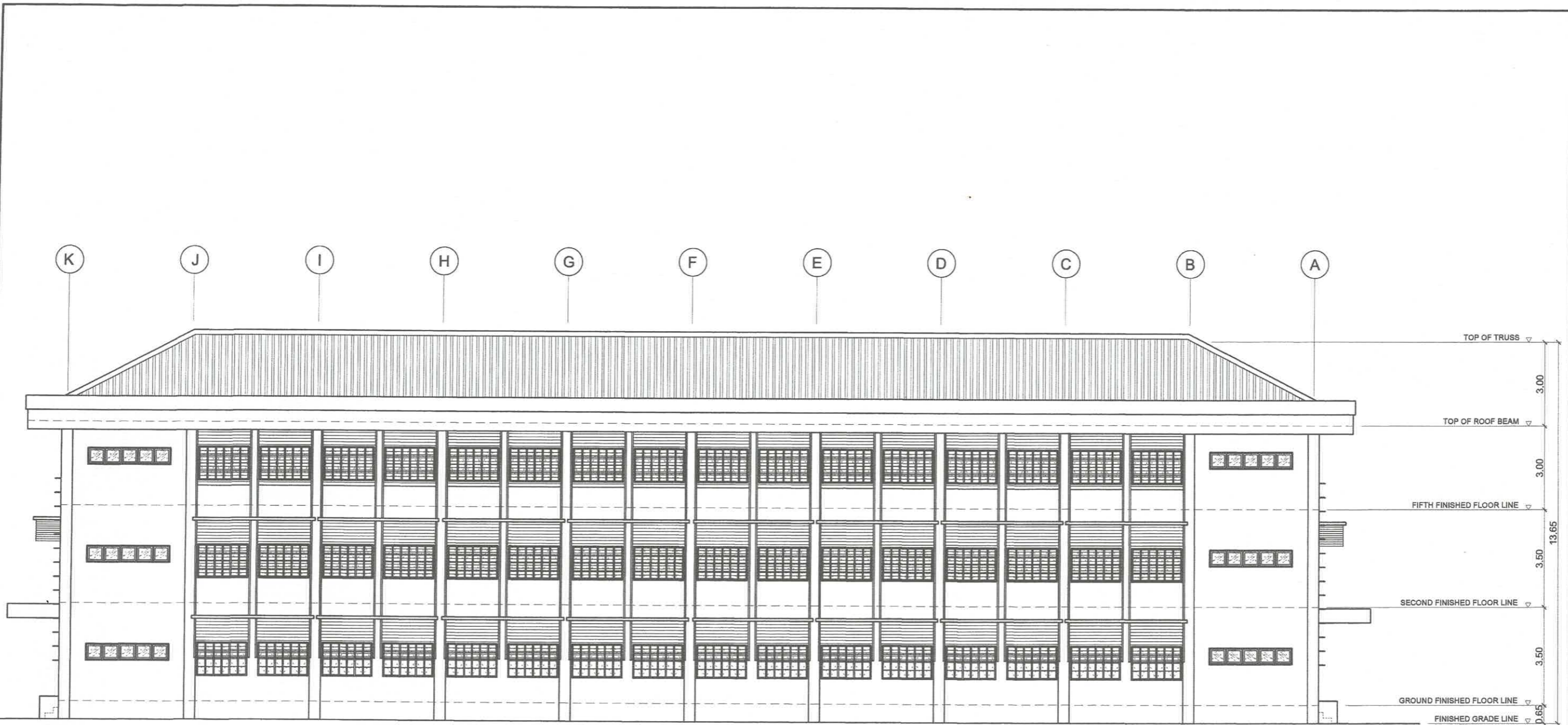




2
A 6
**RIGHT SIDE ELEVATION**  
 SCALE 1 : 150 m

*[Signature]*  
**ELPIDIO M. RODEROS JR.**  
 ARCHITECT  
 PRC NO. 46505  
 EXP. 02-23-2022  
 PTR NO. 2124159  
 DATE: 01/04/21  
 PLACE: INDANG, CAVITE

PREPARED BY: <i>[Signature]</i> R. O. ASUNCION PPU	STRUCTURAL ENGINEER: <i>[Signature]</i> M. A. DAGASDAS JR. CEIT	END - USER: <i>[Signature]</i> M. M. ESCOBAR DEAN	ENDORSED BY: <i>[Signature]</i> R. B. CUBILLA DIRECTOR PLANNING OFFICE	REC. APPROVAL: <i>[Signature]</i> H. O. GARCIA VPASS CVSU	APPROVED BY: <i>[Signature]</i> H. D. ROBLES PRESIDENT CVSU	PROJECT TITLE/ LOCATION SCIENCE TECHNOLOGY & APPLIED RESEARCH (STAR) CENTER CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO.: A / 7
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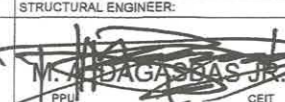
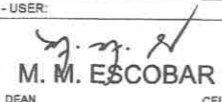
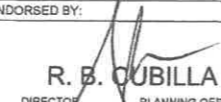
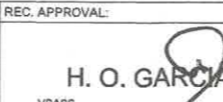
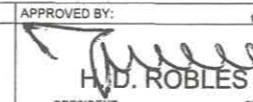


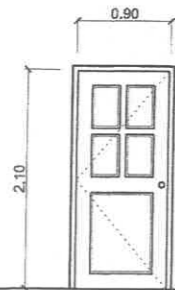
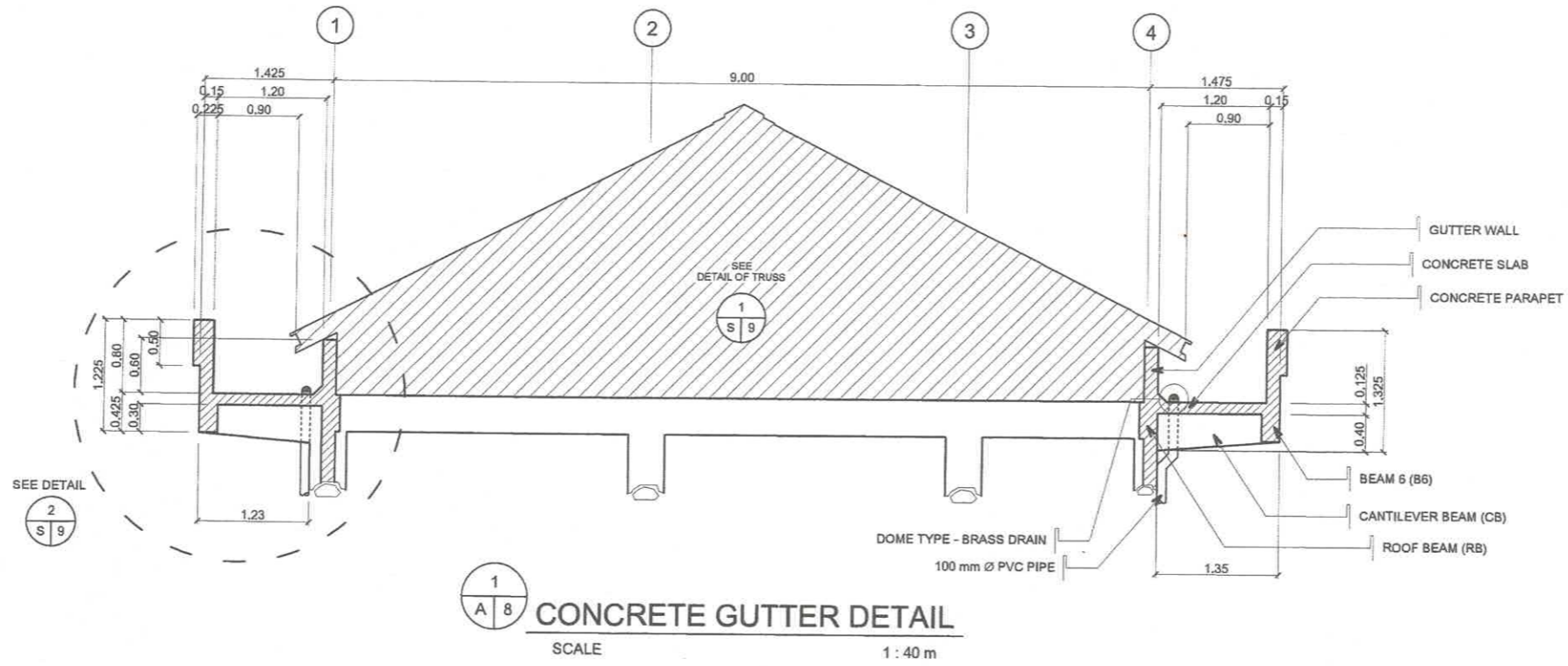
REAR ELEVATION

SCALE

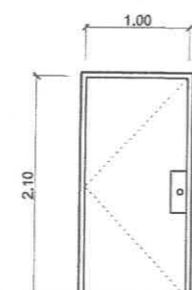
1 : 150 m

  
**ELPIDIO M. RODEROS, JR.**  
 ARCHITECT  
 PRC NO. 46505  
 EXP. 02-23-2072  
 PTR NO. 2124159  
 DATE: 01/04/21  
 PLACE: INDANG, CAVITE

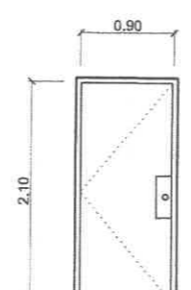
PREPARED BY:  R. Q. ASUNCION PPU	STRUCTURAL ENGINEER:  M. M. ESCOBAR PPU	END - USER:  M. M. ESCOBAR DEAN	ENDORSED BY:  R. B. OUBILLA DIRECTOR	REC. APPROVAL:  H. O. GARCIA VPASS	APPROVED BY:  H. D. ROBLES PRESIDENT	PROJECT TITLE/ LOCATION SCIENCE TECHNOLOGY & APPLIED RESEARCH (STAR) CENTER CAVITE STATE UNIVERSITY, MAIN CAMPUS	INDANG, CAVITE	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO.: A / 8
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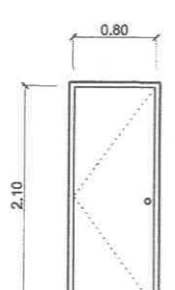
D-1 POWDER COATED STEEL DOOR AND DOOR JAMB W/ VIEW WINDOW W/ COMPLETE ACCESSORIES 24 SETS



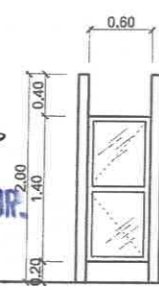
D-2 POWDER COATED STEEL DOOR AND DOOR JAMB W/ COMPLETE ACCESSORIES 3 SETS



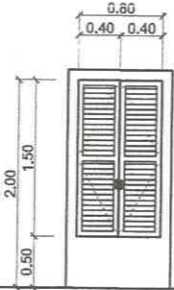
D-3 POWDER COATED STEEL DOOR AND DOOR JAMB W/ COMPLETE ACCESSORIES 6 SETS




D-4 POWDER COATED STEEL DOOR AND DOOR JAMB W/ COMPLETE ACCESSORIES 9 SETS




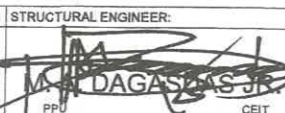
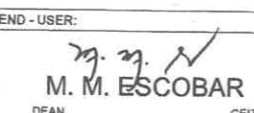
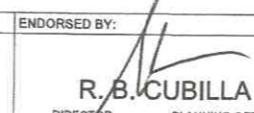
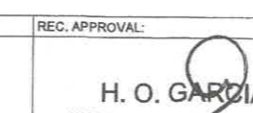
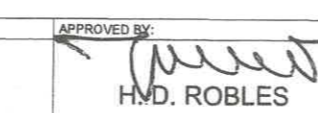
D-5 DUAL SWING SPRING DOOR: 1/2" THICK FROSTED FINISHED GLASS ON ALUMINUM FRAME W/ COMPLETE ACCESSORIES 18 SETS

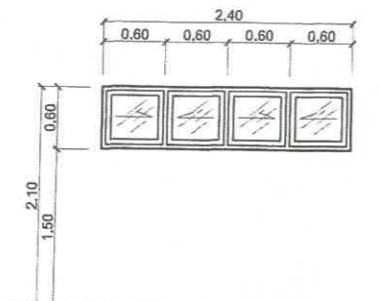


D-6 LOUVER TYPE SWING DOOR: 1" x 2" ALUMINUM LOUVERS ON ALUMINUM FRAME W/ COMPLETE ACCESSORIES 3 SETS

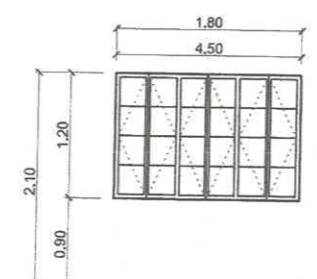
  
**ELPIDIO M. RODERAS JR.**  
 ARCHITECT  
 PRC NO. 46505  
 EXP. 02-23-2022  
 PTR NO. 2124159  
 DATE: 01/04/24  
 PLACE: INDANG, CAVITE


**SCHEDULE OF DOORS**  
 SCALE 1:40 m

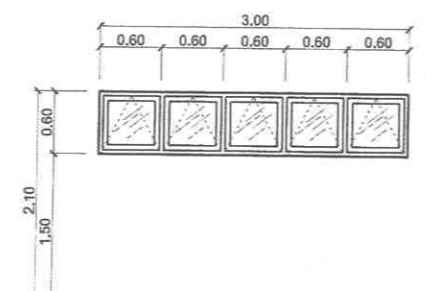
PREPARED BY:  R. C. ASUNCION PPU CEIT	STRUCTURAL ENGINEER:  M. M. ESCOBAR PPU CEIT	END - USER:  M. M. ESCOBAR DEAN CEIT	ENDORSED BY:  R. B. CUBILLA DIRECTOR PLANNING OFFICE	REC. APPROVAL:  H. O. GARCIA VPASS CVSU	APPROVED BY:  H.M.D. ROBLES PRESIDENT CVSU	PROJECT TITLE/LOCATION SCIENCE TECHNOLOGY & APPLIED RESEARCH (STAR) CENTER CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO: A/9
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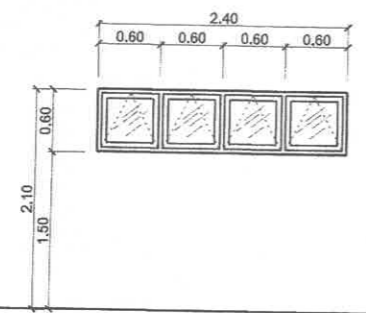
**W-1** SLIDING GLASS WINDOW  
 1/2" THK. REFLECTIVE GLASS ON  
 POWDER-COATED ALUMINUM FRAME W/  
 COMPLETE ACCESSORIES  
 24 SETS



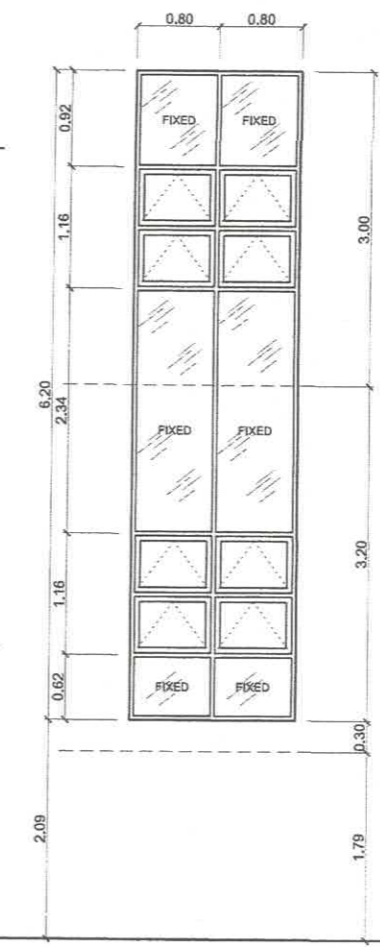
**W-2** ALUMINUM CASEMENT WINDOW W/  
 1/2" THK. REFLECTIVE GLASS ON  
 POWDER-COATED ALUMINUM FRAME W/  
 COMPLETE ACCESSORIES & 12mm  
 SQUARE BAR GRILLS  
 48 SETS



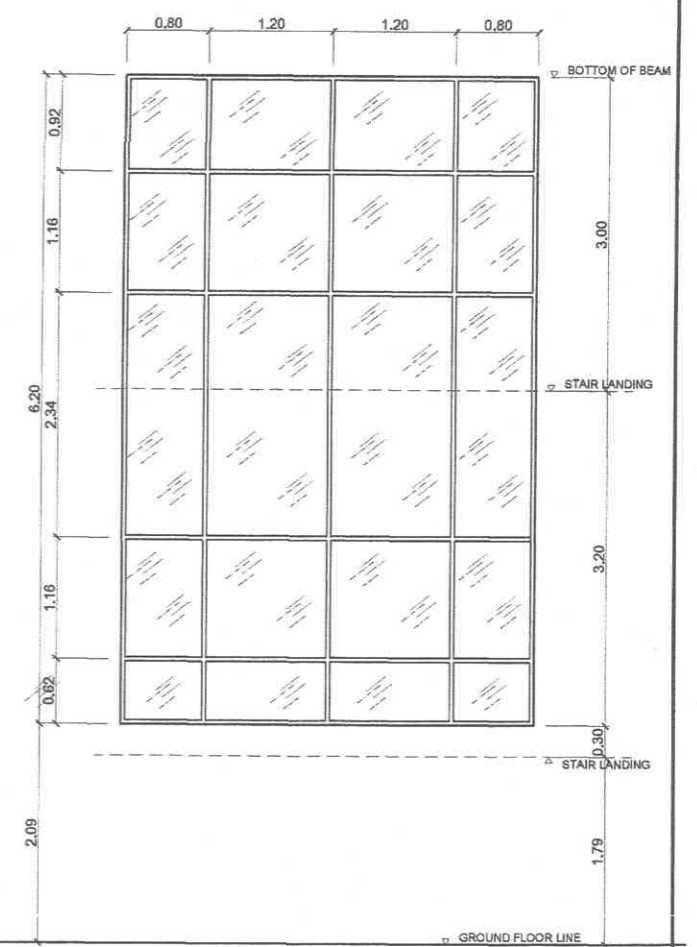
**W-3** AWNING GLASS WINDOW  
 1/2" THK. REFLECTIVE GLASS ON  
 POWDER-COATED ALUMINUM FRAME W/  
 COMPLETE ACCESSORIES  
 6 SETS



**W-4** AWNING GLASS WINDOW  
 1/2" THK. REFLECTIVE GLASS ON  
 POWDER-COATED ALUMINUM FRAME W/  
 COMPLETE ACCESSORIES  
 6 SETS



**W-5** AWNING GLASS WINDOW  
 1/2" THK. REFLECTIVE GLASS ON  
 POWDER-COATED ALUMINUM FRAME W/  
 COMPLETE ACCESSORIES W/ 1/2" THK.  
 FIXED GLASS  
 4 SETS

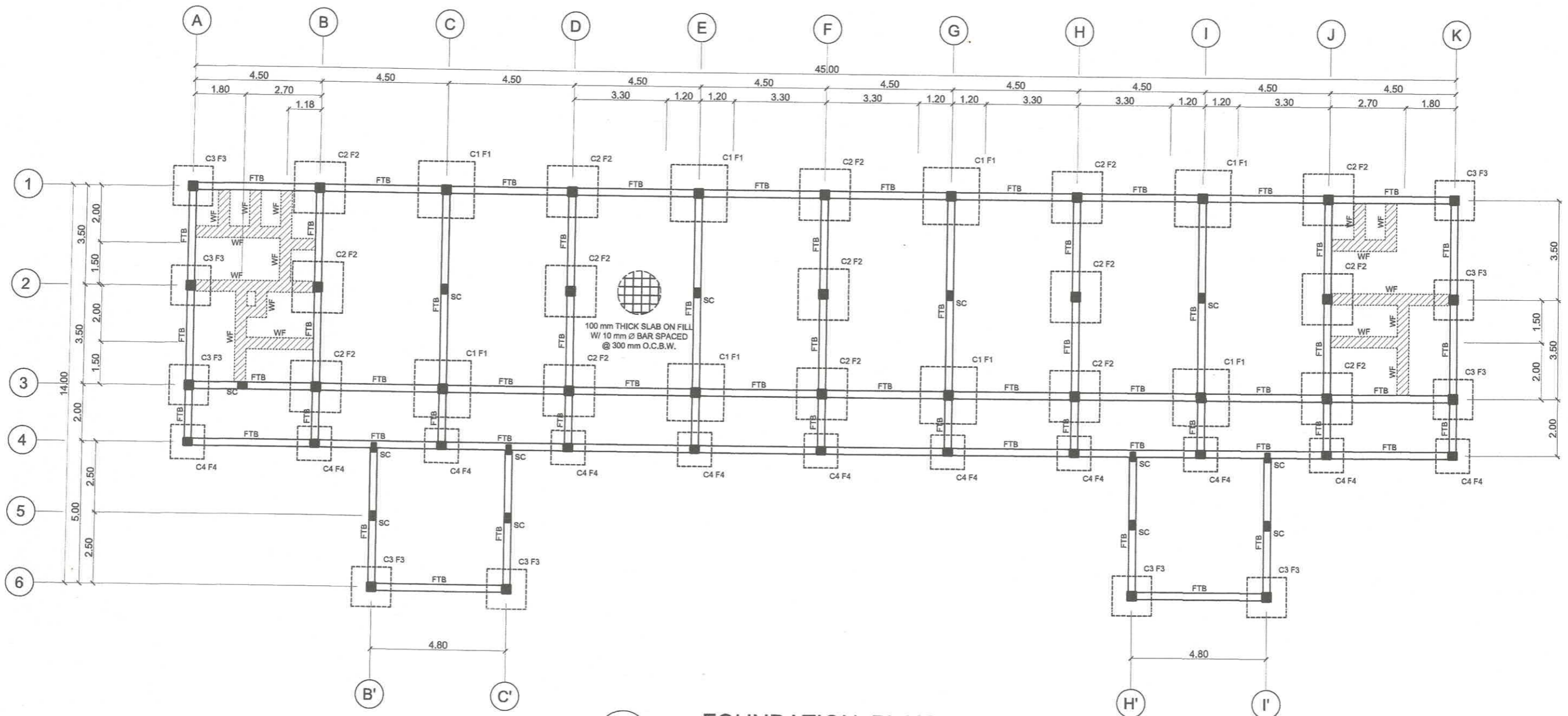


**W-6** FIXED GLASS WINDOW  
 1/2" THK. REFLECTIVE GLASS ON  
 POWDER-COATED ALUMINUM FRAME  
 2 SETS

**1** SCHEDULE OF WINDOWS  
 A 9 SCALE 1 : 40 m

*Elpidio N. Roderos Jr.*  
**ELPIDIO N. RODEROS JR.**  
 ARCHITECT  
 PRC NO. 46505  
 EXP. 02-23-2077  
 PTR NO. 2129159  
 DATE: 01/04/21  
 PLACE: INDANG, CAVITE

PREPARED BY: <i>R. C. Asuncion</i> <b>R. C. ASUNCION</b> PPU CEIT	STRUCTURAL ENGINEER: <i>M. A. Magasdas Jr.</i> <b>M. A. MAGASDAS JR.</b> PPU CEIT	END - USER: <i>M. M. Escobar</i> <b>M. M. ESCOBAR</b> DEAN CEIT	ENDORSED BY: <i>R. B. Cubilla</i> <b>R. B. CUBILLA</b> DIRECTOR PLANNING OFFICE	REC. APPROVAL: <i>H. O. Garcia</i> <b>H. O. GARCIA</b> VPASS CVSU	APPROVED BY: <i>H. D. Robles</i> <b>H. D. ROBLES</b> PRESIDENT CVSU	PROJECT TITLE/ LOCATION <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO: <b>A / 10</b>
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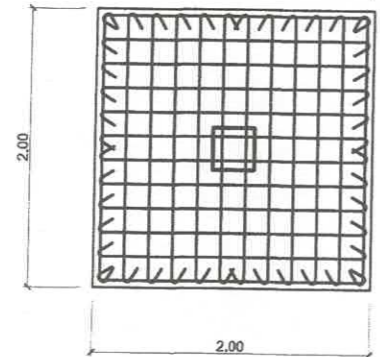
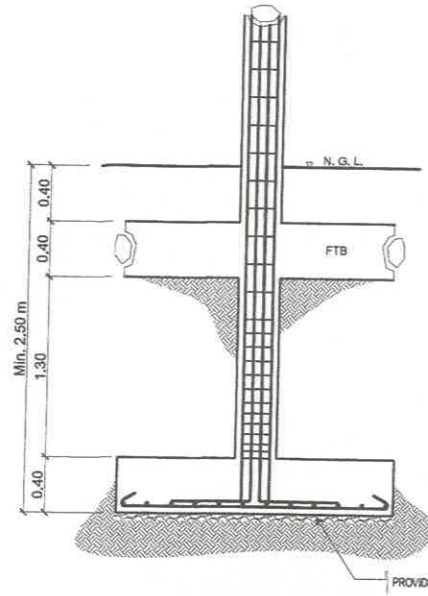
**FOUNDATION PLAN**

1  
S 1

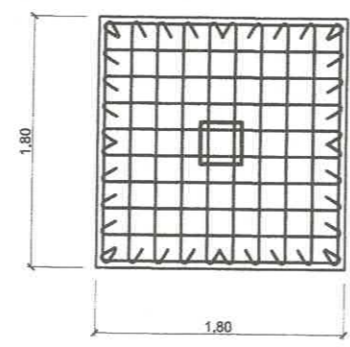
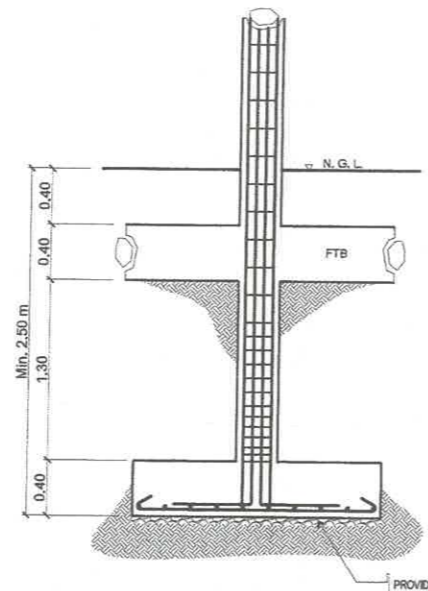
SCALE

1 : 150 m

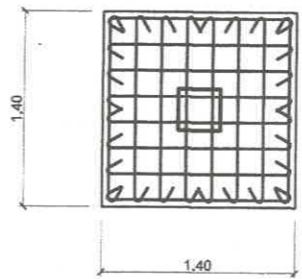
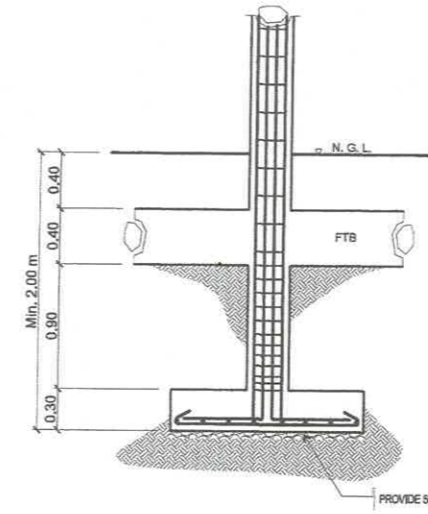
PREPARED BY: <i>R. C. ASUNCION</i> PPU CEIT	STRUCTURAL ENGINEER: <i>M. A. DAGASBAS JR.</i> PPU CEIT	END - USER: <i>M. M. ESCOBAR</i> DEAN CEIT	ENDORSED BY: <i>R. B. CUBILLA</i> DIRECTOR PLANNING OFFICE	REC. APPROVAL: <i>H. O. GARCIA</i> VPASS CVSU	APPROVED BY: <i>H. D. ROBLES</i> PRESIDENT CVSU	PROJECT TITLE/ LOCATION: SCIENCE TECHNOLOGY & APPLIED RESEARCH (STAR) CENTER CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO: S 1
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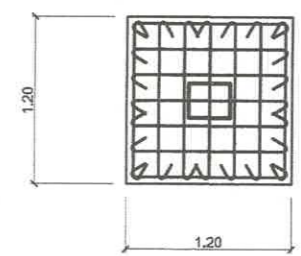
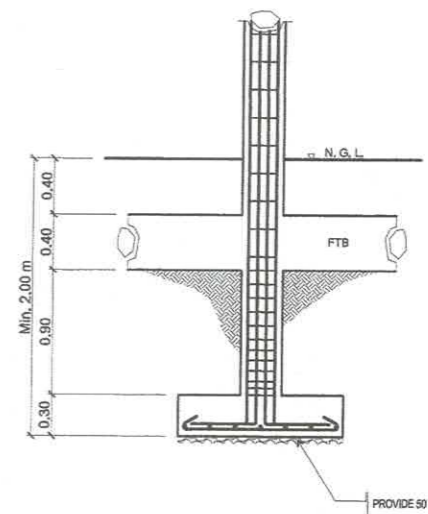
**FOOTING 1 (F1)**  
12 - 16 mm Ø BAR BOTHWAYS



**FOOTING 2 (F2)**  
10 - 16 mm Ø BAR BOTHWAYS



**FOOTING 3 (F3)**  
8 - 16 mm Ø BAR BOTHWAYS



**FOOTING 4 (F4)**  
7 - 16 mm Ø BAR BOTHWAYS

1  
S 2

**SCHEDULE OF COLUMN FOOTINGS**

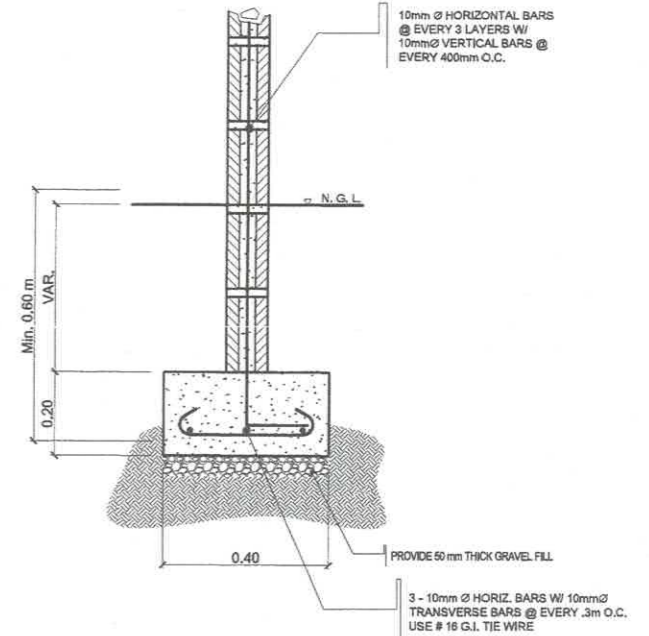
SCALE N.T.S.

LEVEL	REQUIREMENT	COLUMNS				
		C1	C2	C3	C4	SC
FOOTING TO 2ND FLOOR LINE	DIMENSION	300mm x 300mm	300mm x 300mm	300mm x 300mm	250mm x 300mm	200mm x 300mm
	VERTICAL BARS	12 - 20 mm Ø	12 - 16 mm Ø	12 - 16mm Ø	8 - 16 mm Ø	6 - 16 mm Ø
	LATERAL TIES	3 SETS OF 10mm Ø TIES @ 250mm, 4-75mm, 6-100mm, REST @ 200mm O.C.	3 SETS OF 10mm Ø TIES @ 250mm, 4-75mm, 6-100mm, REST @ 200mm O.C.	3 SETS OF 10mm Ø TIES @ 250mm, 4-75mm, 6-100mm, REST @ 200mm O.C.	2 SETS OF 10mm Ø TIES @ 250mm, 4-75mm, 6-100mm, REST @ 200mm O.C.	2 SETS OF 10mm Ø TIES @ 250mm, 4-75mm, 6-100mm, REST @ 200mm O.C.
2ND FLOOR LINE TO ROOF BEAM	DIMENSION	300mm x 300mm	300mm x 300mm	300mm x 300mm	250mm x 300mm	200mm x 300mm
	VERTICAL BARS	12 - 16 mm Ø	8 - 16 mm Ø	8 - 16 mm Ø	4 - 16 mm Ø 4 - 12 mm Ø	6 - 16 mm Ø
	LATERAL TIES	3 SETS OF 10mm Ø TIES @ 250mm, 4-75mm, 6-100mm, REST @ 200mm O.C.	2 SETS OF 10mm Ø TIES @ 250mm, 4-75mm, 6-100mm, REST @ 200mm O.C.	2 SETS OF 10mm Ø TIES @ 250mm, 4-75mm, 6-100mm, REST @ 200mm O.C.	2 SETS OF 10mm Ø TIES @ 250mm, 4-75mm, 6-100mm, REST @ 200mm O.C.	2 SETS OF 10mm Ø TIES @ 250mm, 4-75mm, 6-100mm, REST @ 200mm O.C.

2  
S 2

**SCHEDULE OF COLUMNS**

SCALE 1 : 30 m

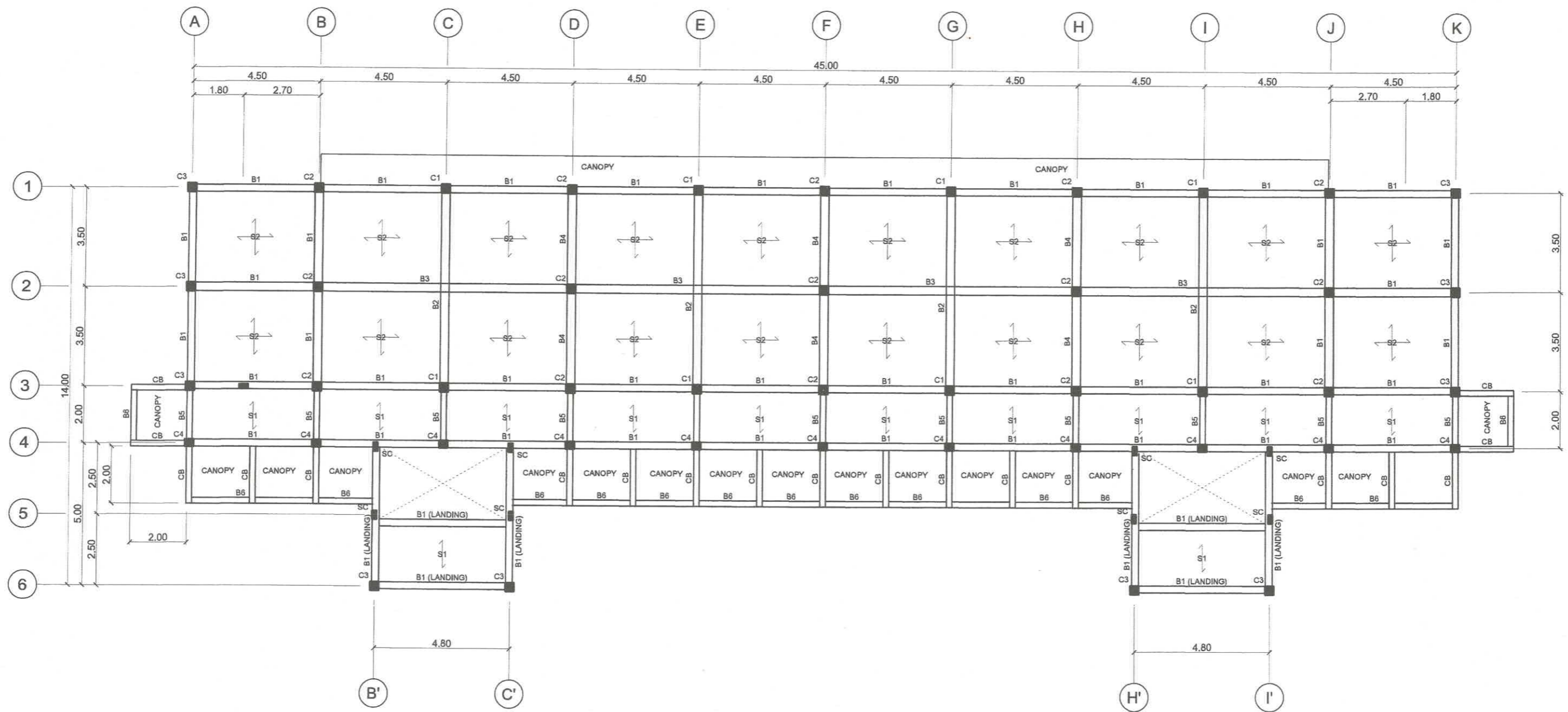


3  
S 2

**DETAIL OF WALLFOOTING**

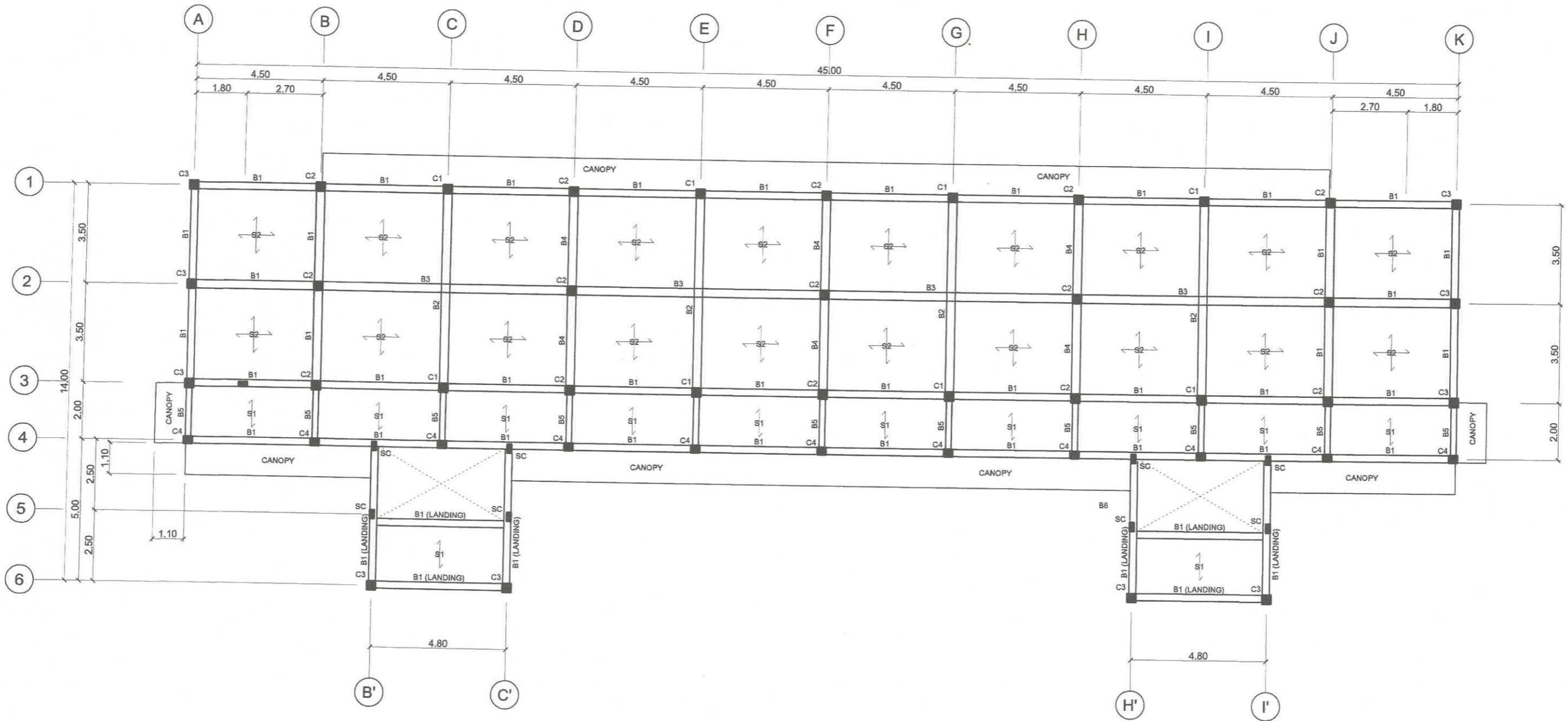
SCALE N.T.S.

PREPARED BY: <b>R. C. ASUNCION</b> PPU CEIT	STRUCTURAL ENGINEER: <b>M. A. BAGAS JR.</b> PPU CEIT	END - USER: <b>M.M. ESCOBAR</b> DEAN CEIT	ENDORSED BY: <b>R. B. CUBILLA</b> DIRECTOR PLANNING OFFICE	REC. APPROVAL: <b>H. O. GARCIA</b> VPASS CVSU	APPROVED BY: <b>H. D. ROBLES</b> PRESIDENT CVSU	PROJECT TITLE/ LOCATION <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO: <b>S 2</b>
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1
S
3
**SECOND FLOOR BEAM PLAN**  
 SCALE 1 : 150 m

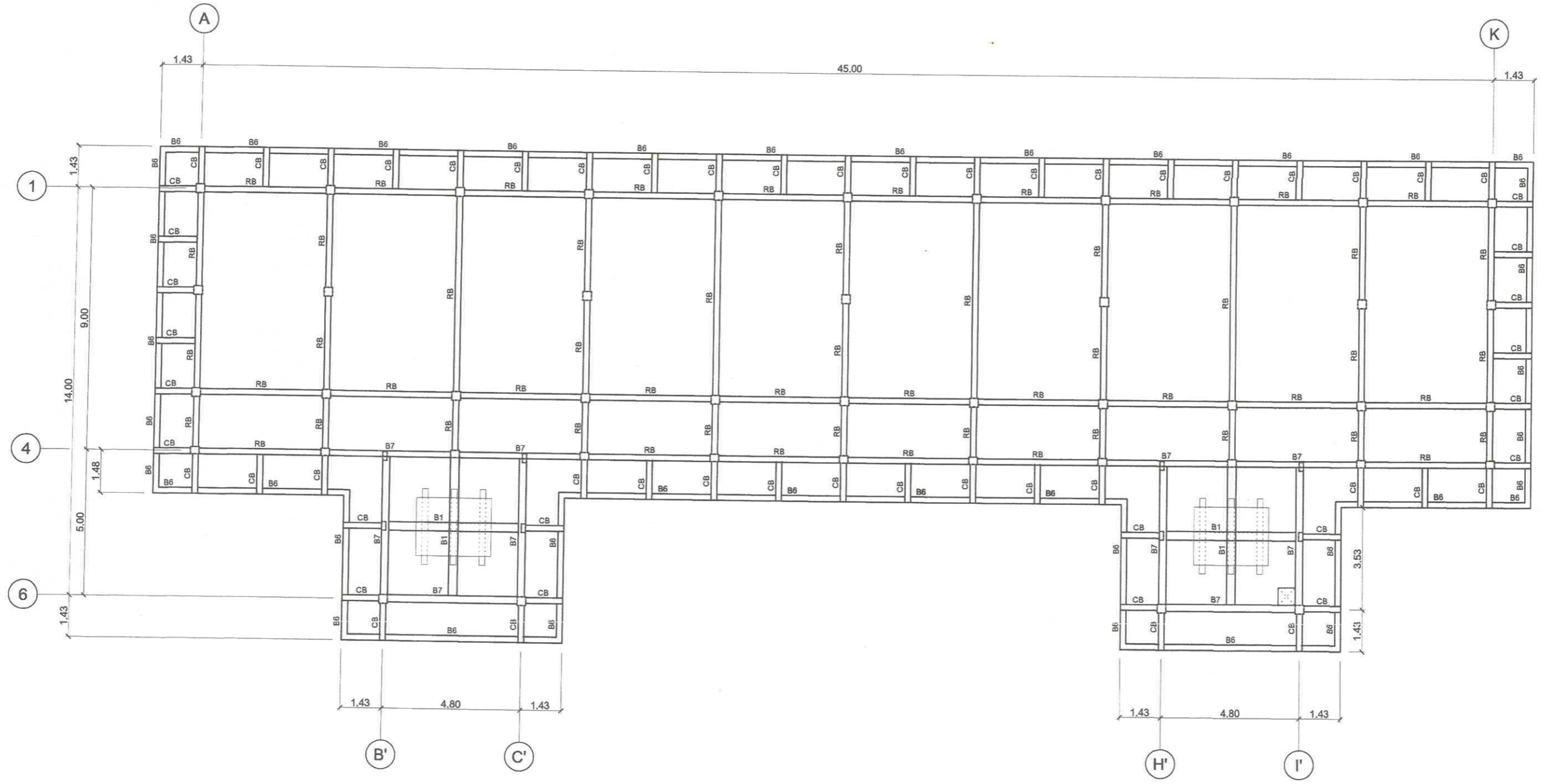
PREPARED BY: <i>R. C. ASUNCION</i> PPU CEIT	STRUCTURAL ENGINEER: <i>M. A. DRAGASAS JR</i> PPLA CEIT	END - USER: <i>M. M. ESCOBAR</i> DEAN CEIT	ENDORSED BY: <i>R. B. CUBILLA</i> DIRECTOR PLANNING OFFICE	REC. APPROVAL: <i>H. O. GARCIA</i> VPASS CVSU	APPROVED BY: <i>H. D. ROBLES</i> PRESIDENT CVSU	PROJECT TITLE/ LOCATION <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO.: <b>S / 3</b>
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1
S 4
**THIRD FLOOR BEAM PLAN**  
 SCALE 1 : 150 m

PREPARED BY: <i>R. C. ASUNCION</i> PPU CEIT	STRUCTURAL ENGINEER: <i>M. M. ESCOBAR</i> PPU CEIT	END - USER: <i>M. M. ESCOBAR</i> DEAN CEIT	ENDORSED BY: <i>R. B. CUBILLA</i> DIRECTOR PLANNING OFFICE	REC. APPROVAL: <i>H. O. GARCIA</i> VPASS CVSU	APPROVED BY: <i>H. D. ROBLES</i> PRESIDENT CVSU	PROJECT TITLE/ LOCATION <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO: <b>S 4</b>
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**ROOF BEAM PLAN**

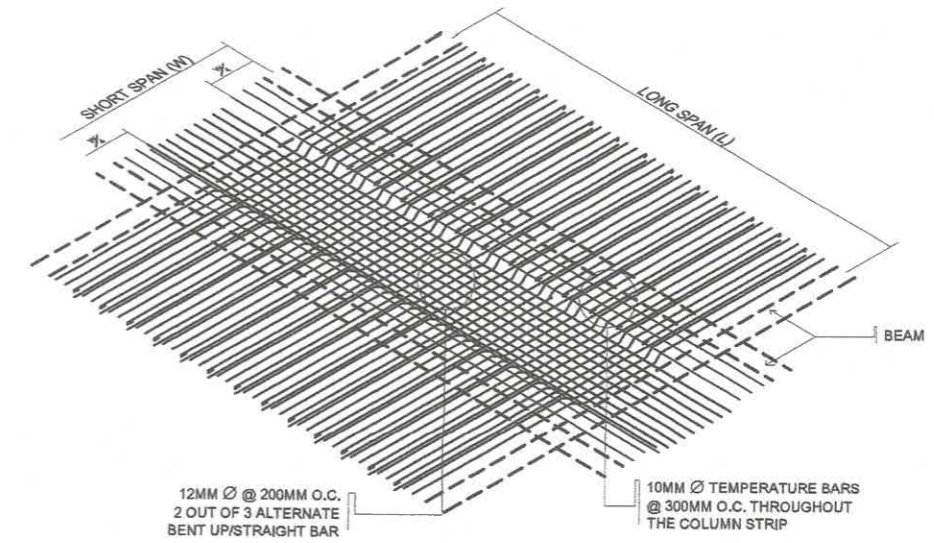
1  
S 5

SCALE

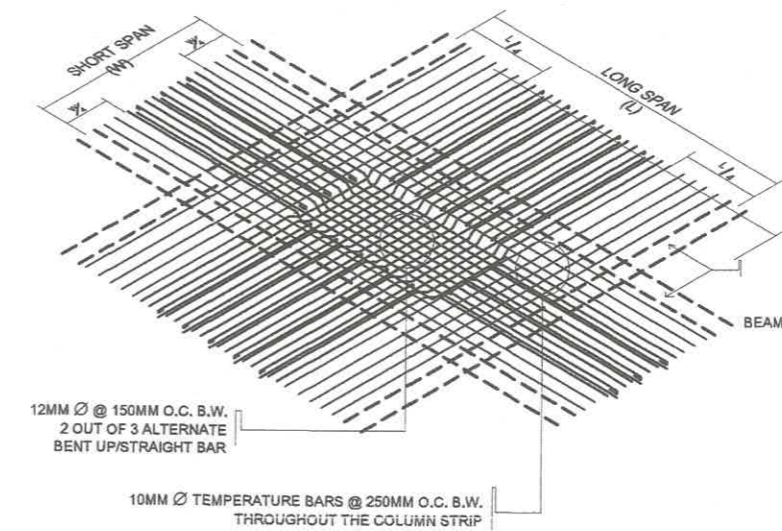
1 : 150 m

PREPARED BY: <i>[Signature]</i> <b>R. C. ASUNCION</b> <small>PPU CEIT</small>	STRUCTURAL ENGINEER: <i>[Signature]</i> <b>M. M. DAGAS JR.</b> <small>PPU CEIT</small>	END - USER: <i>[Signature]</i> <b>M. M. ESCOBAR</b> <small>DEAN CEIT</small>	ENDORSED BY: <i>[Signature]</i> <b>R. B. CUBILLA</b> <small>DIRECTOR PLANNING OFFICE</small>	REC. APPROVAL: <i>[Signature]</i> <b>H. O. GARCIA</b> <small>VPASS CVSU</small>	APPROVED BY: <i>[Signature]</i> <b>H. D. ROBLES</b> <small>PRESIDENT CVSU</small>	PROJECT TITLE/LOCATION <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> <small>CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE</small>	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO: <b>S 5</b>
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BEAM	DIMENSION	SUPPORT		MID-SPAN		BAR ARRANGEMENT		REMARKS	REMARKS
		TOP	BOTTOM	TOP	BOTTOM	SUPPORT	MID-SPAN		
B-1	250mm X 400mm	5-16 MM Ø	3-16 MM Ø	3-16 MM Ø	5-16 MM Ø			10MM Ø STIRRUPS 4 @0.05, 6 @0.075 8 @0.10, REST@ 0.15 O.C.	USE 2-10MM SITFFENER BARS
B-2	300mm X 500mm	6-25 MM Ø	3-25 MM Ø	3-25 MM Ø	6-25 MM Ø			- DO -	- DO -
B-3	300mm X 500mm	8-25 MM Ø	4-25 MM Ø	4-25 MM Ø	8-25 MM Ø			- DO -	- DO -
B-4	300mm X 450mm	5-16 MM Ø	3-16 MM Ø	3-16 MM Ø	5-16 MM Ø			- DO -	- DO -
B-5	200mm X 400mm	3-16 MM Ø	2-16 MM Ø	2-16 MM Ø	3-16 MM Ø			- DO -	- DO -
B-6	200mm X 300mm	3-16 MM Ø	2-16 MM Ø	2-16 MM Ø	3-16 MM Ø			- DO -	- DO -
B-7	250mm X 400mm	5-20 MM Ø	3-20 MM Ø	3-20MM Ø	5-20 MM Ø			- DO -	- DO -
RB	200mm X 400mm	3-16 MM Ø	2-16 MM Ø	2-16 MM Ø	3-16 MM Ø			- DO -	- DO -
CB	250mm X 400mm	5-16 MM Ø	3-16 MM Ø	5-16 MM Ø END	3-16 MM Ø			- DO -	- DO -
FTB	250mm X 400mm	3-16 MM Ø	3-16 MM Ø	3-16 MM Ø	3-16 MM Ø			- DO -	- DO -
SB	150mm X 200mm	2-12 MM Ø	2-12 MM Ø	2-12 MM Ø	2-12 MM Ø			- DO -	- DO -



ONE-WAY SLAB (S1)



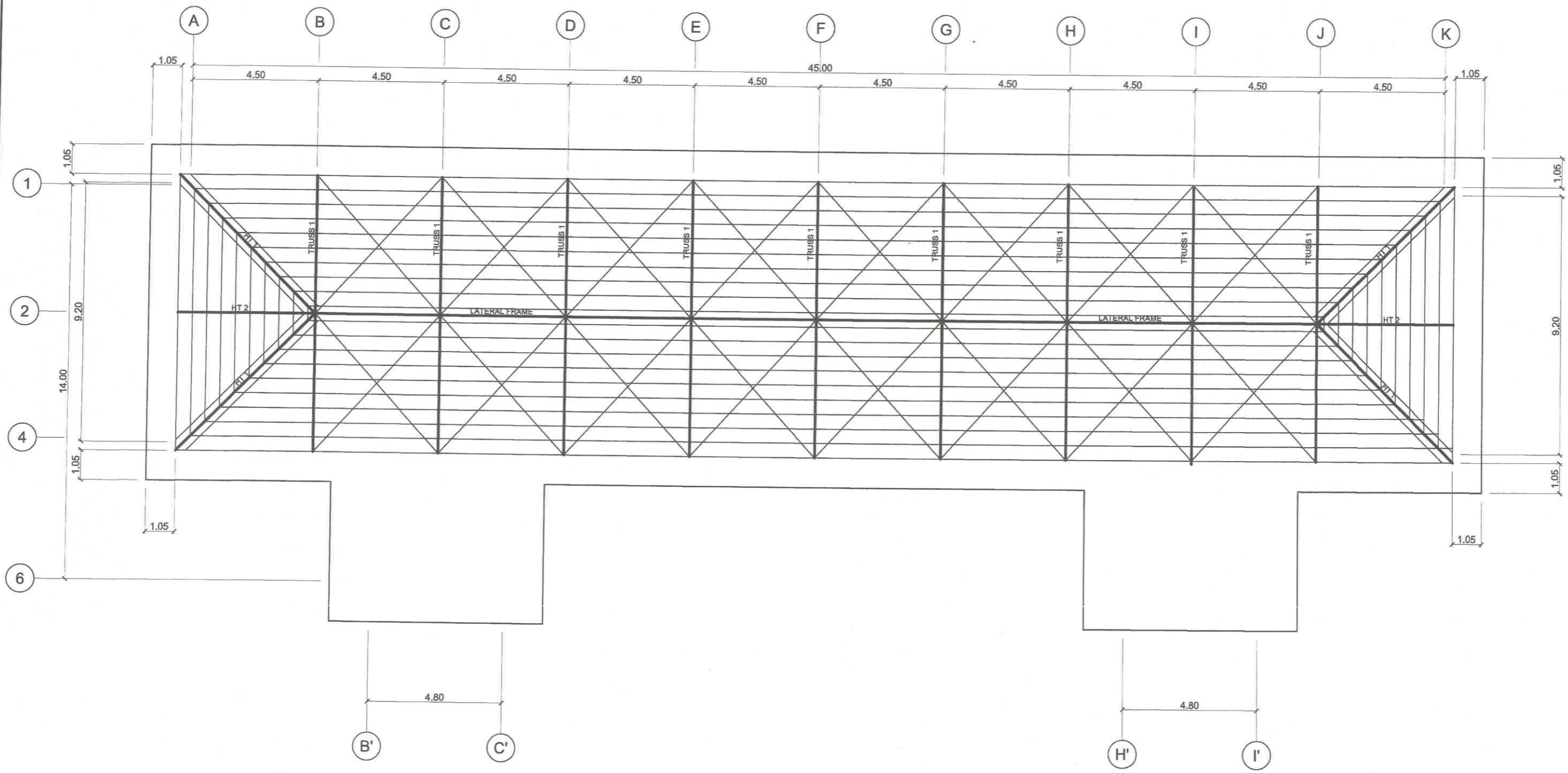
TWO-WAY SLAB (S2)

NOTE:  
SLAB THICKNESS:  
S1 = 125MM  
S2 = 125MM

1 SCHEDULE OF BEAMS  
SCALE NTS

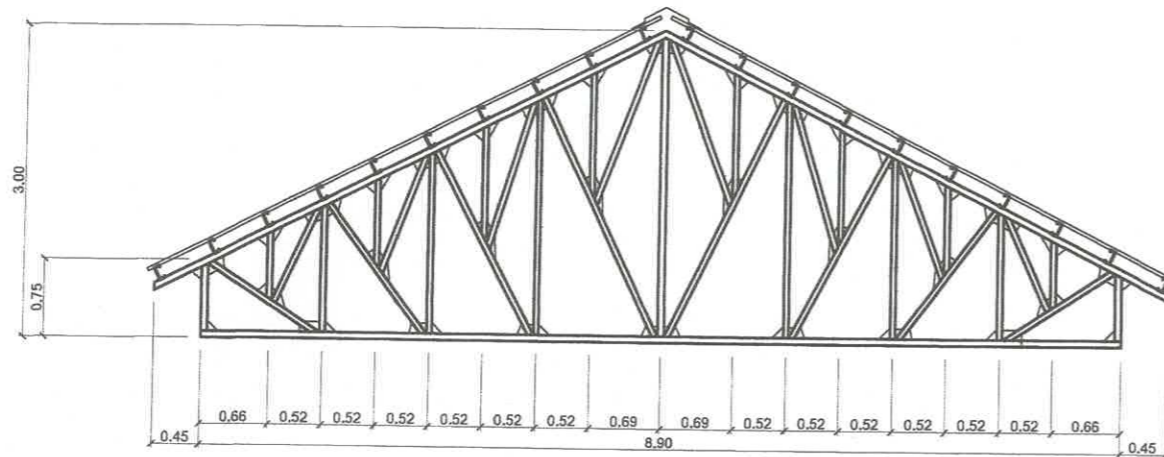
2 DETAIL OF SLAB REINFORCEMENTS  
SCALE NTS

PREPARED BY:  R. C. ASUNCION PPU CEIT	STRUCTURAL ENGINEER:  M. A. BAGASBA JR. PPU CEIT	END - USER:  M. M. ESCOBAR PPU DEAN	ENDORSED BY:  R. B. CUBILLA PPU DIRECTOR PLANNING OFFICE	REC. APPROVAL:  H. O. GARCIA PPU VPASS CVSU	APPROVED BY:  H. D. ROBLES PPU PRESIDENT CVSU	PROJECT TITLE/ LOCATION SCIENCE TECHNOLOGY & APPLIED RESEARCH (STAR) CENTER CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO: S/6
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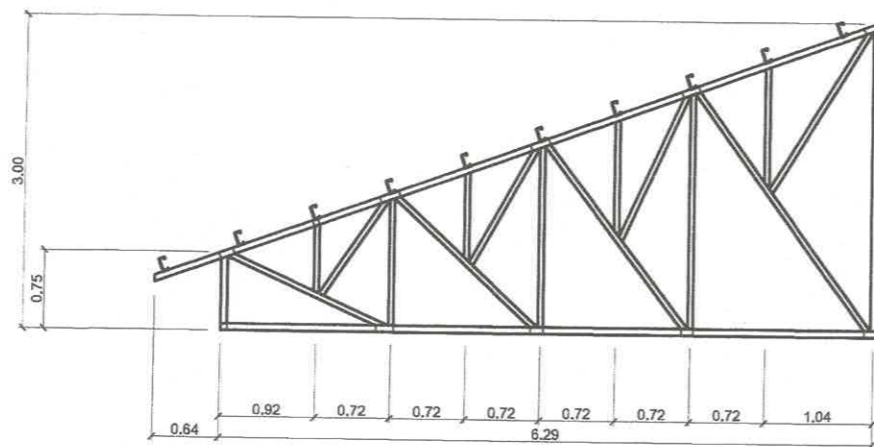


1
S
7
**ROOF FRAMING PLAN**  
 SCALE 1 : 100 m

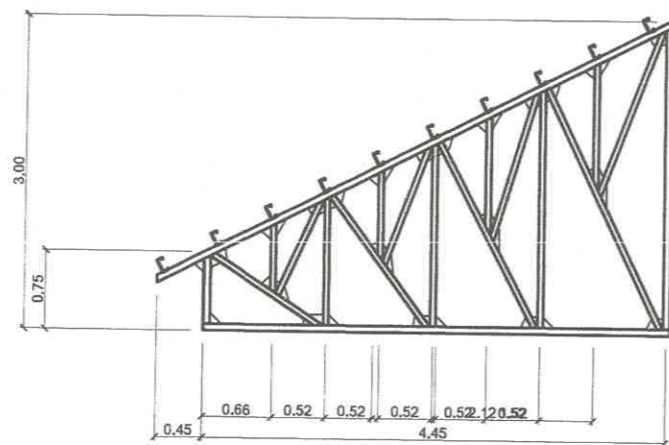
PREPARED BY:  <b>R. C. ASUNCION</b> <small>PPU CEIT</small>	STRUCTURAL ENGINEER:  <b>M. A. DAGASAS JR.</b> <small>PPU CEIT</small>	END - USER:  <b>M. M. ESCOBAR</b> <small>DEAN CEIT</small>	ENDORSED BY:  <b>H. O. GARCIA</b> <small>VPASS CVSU</small>	REC. APPROVAL:  <b>H. D. ROBLES</b> <small>PRESIDENT CVSU</small>	PROJECT TITLE/ LOCATION <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> <small>CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE</small>	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO: <b>S / 7</b>
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TRUSS 1



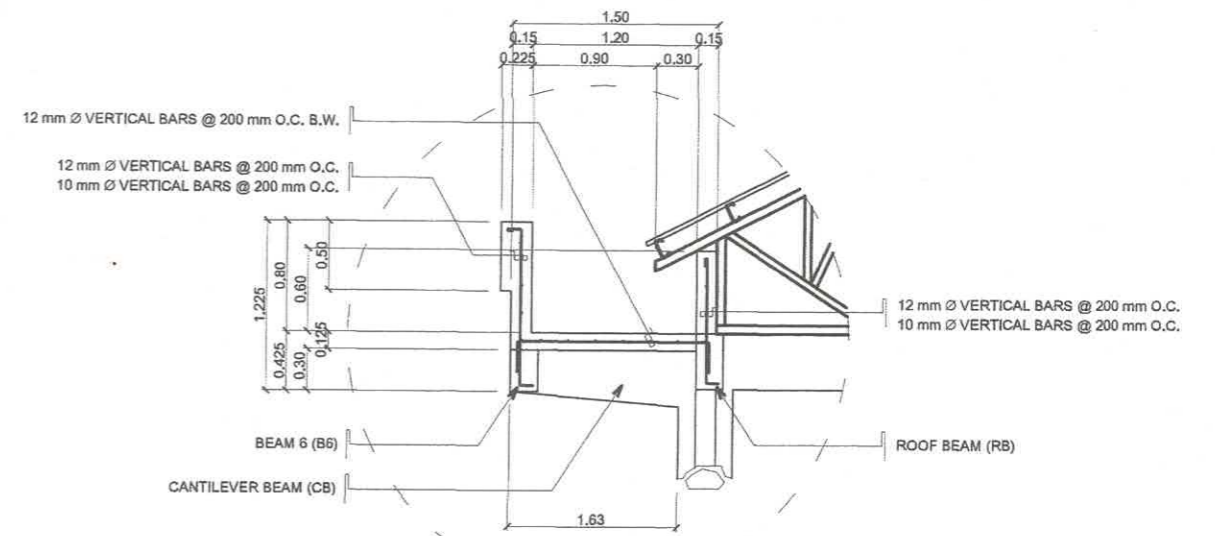
HALFTRUSS 1



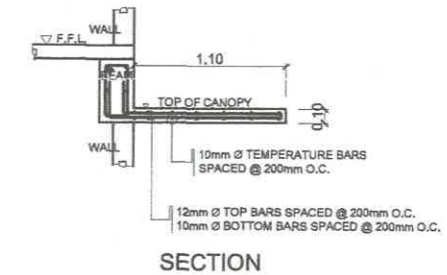
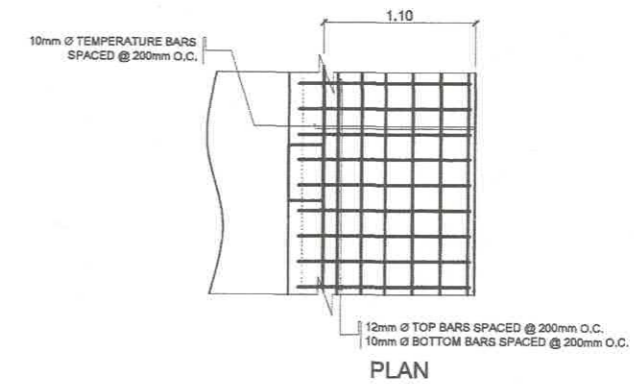
HALFTRUSS 2

1  
S 8  
SCALE 1:40 m  
DETAIL OF TRUSSES

- NOTE :
- TOP CHORD - 2 - 62mm x 62mm x 6mm ANGULAR BAR
  - BOTTOM CHORD - 2 - 62mm x 62mm x 6mm ANGULAR BAR
  - KING POST - 2 - 62mm x 62mm x 6mm ANGULAR BAR
  - MEMBERS - 2 - 62mm x 62mm x 6mm ANGULAR BAR
  - GUSSET PLATE - 2 - 50mm x 50mm x 8mm ANGULAR BAR
  - PURLINS - 10mm THICK METAL PLATE
  - CLEATS - 50mm x 150mm x 1.5mm CEE PURLINS
  - ROOFING - 2 - 62mm x 62mm x 6mm ANGULAR BAR
  - LONG TILE SPAN COLORED METAL ROOF

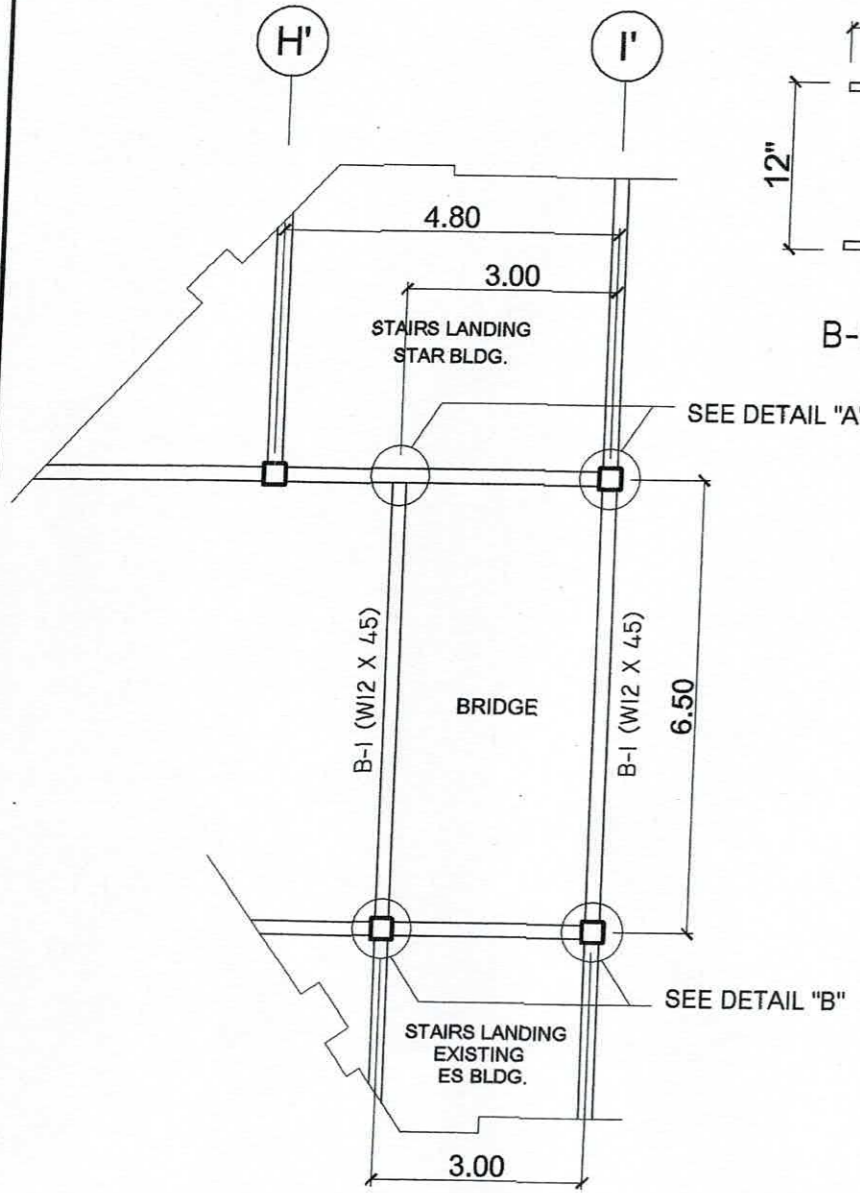


2  
S 8  
SCALE 1:40 m  
DETAIL OF REINFORCEMENT FOR CONCRETE GUTTER

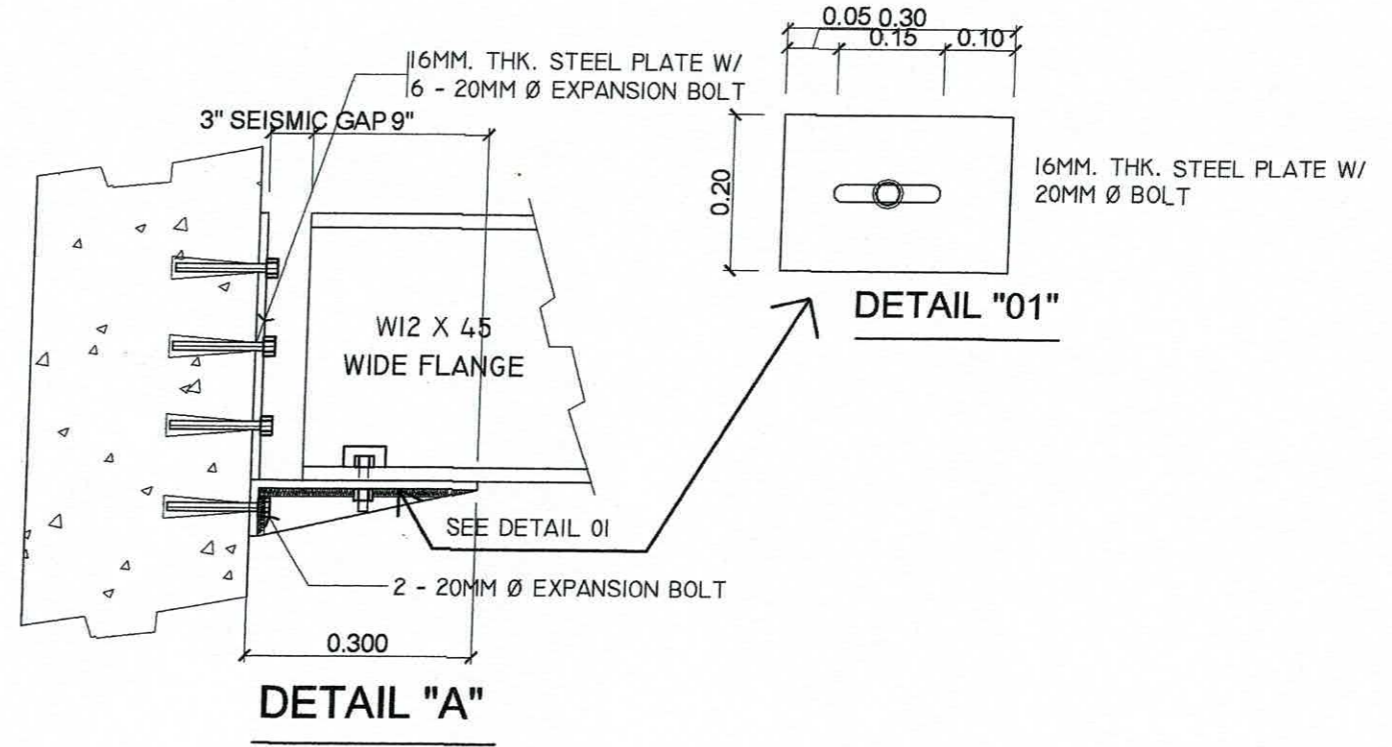
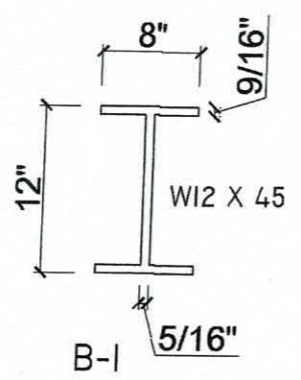


3  
S 8  
SCALE N.T.S.  
DETAIL OF CONCRETE CANOPY

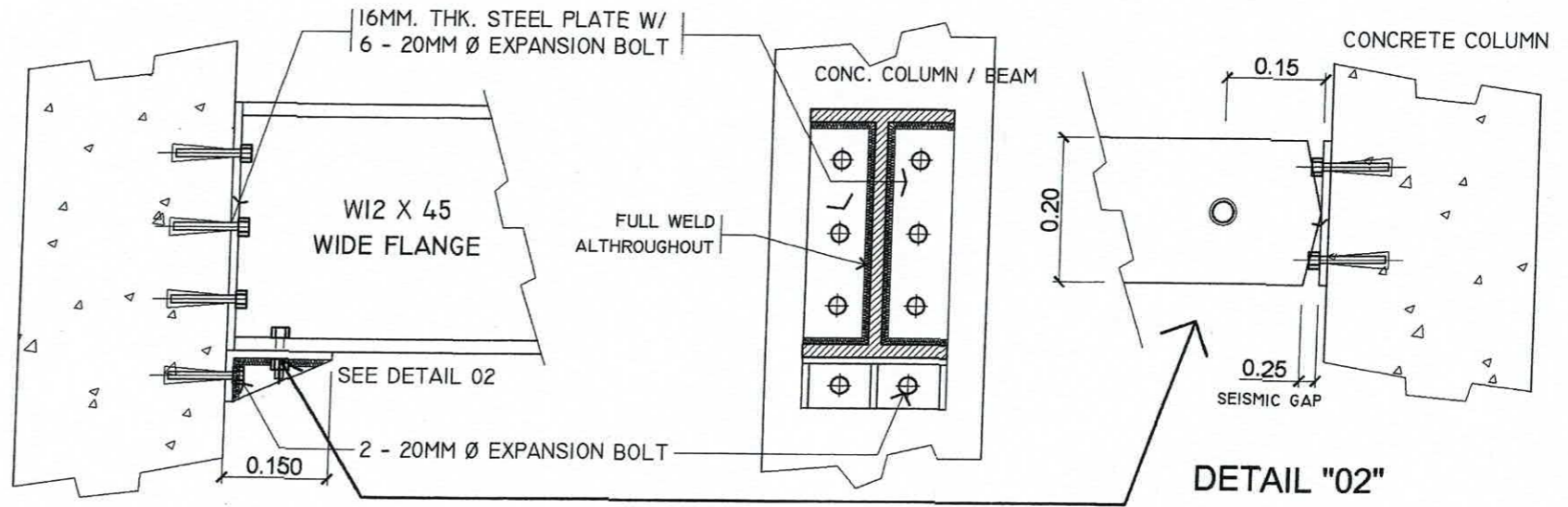
PREPARED BY: <i>R. C. ASUNCION</i> PPU CEIT	STRUCTURAL ENGINEER: <i>M. A. DARGASAS JR.</i> PPU CEIT	END - USER: <i>M. M. ESCOBAR</i> DEAN CEIT	ENDORSED BY: <i>R. B. CUBILLA</i> DIRECTOR PLANNING OFFICE	REC. APPROVAL: <i>H. O. GARCIA</i> VPASS CVSU	APPROVED BY: <i>M. D. ROBLES</i> PRESIDENT CVSU	PROJECT TITLE/LOCATION SCIENCE TECHNOLOGY & APPLIED RESEARCH (STAR) CENTER CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO.: S 8
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**1 PLAN OF CONNECTING BRIDGE**  
 SCALE 1 : 100 m

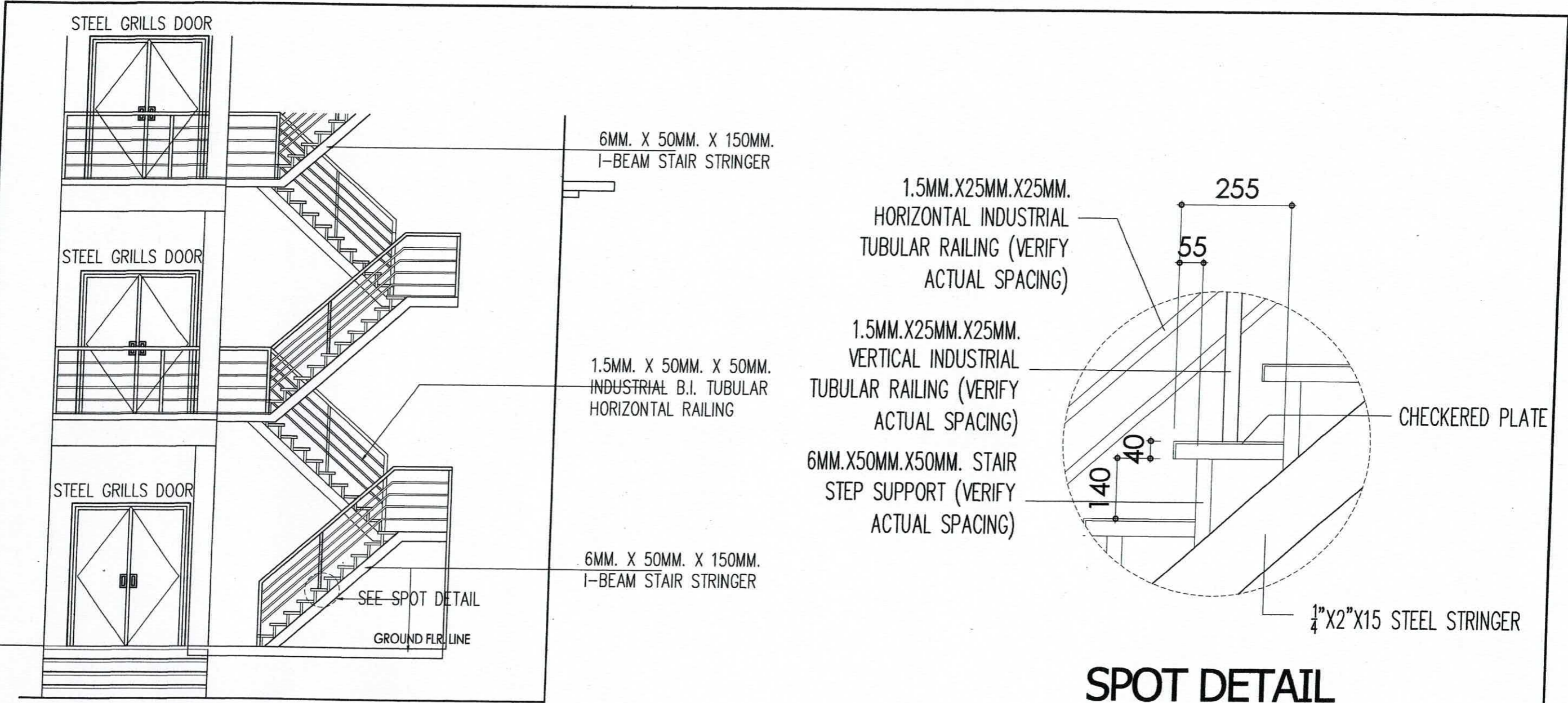


**DETAIL "A"**



**DETAIL "B"**

PREPARED BY: E. N. RODRIGOS PPU CEIT	STRUCTURAL ENGINEER: M. M. ESCOBAR PPU CEIT	END - USER: M. M. ESCOBAR DEAN CEIT	ENDORSED BY: R. B. CUBILLA DIRECTOR PLANNING OFFICE	REC. APPROVAL: H. O. GARCIA VPASS CVSU	APPROVED BY: H. D. ROBLES PRESIDENT CVSU	PROJECT TITLE/LOCATION: SCIENCE TECHNOLOGY & APPLIED RESEARCH (STAR) CENTER CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO.: S / 10
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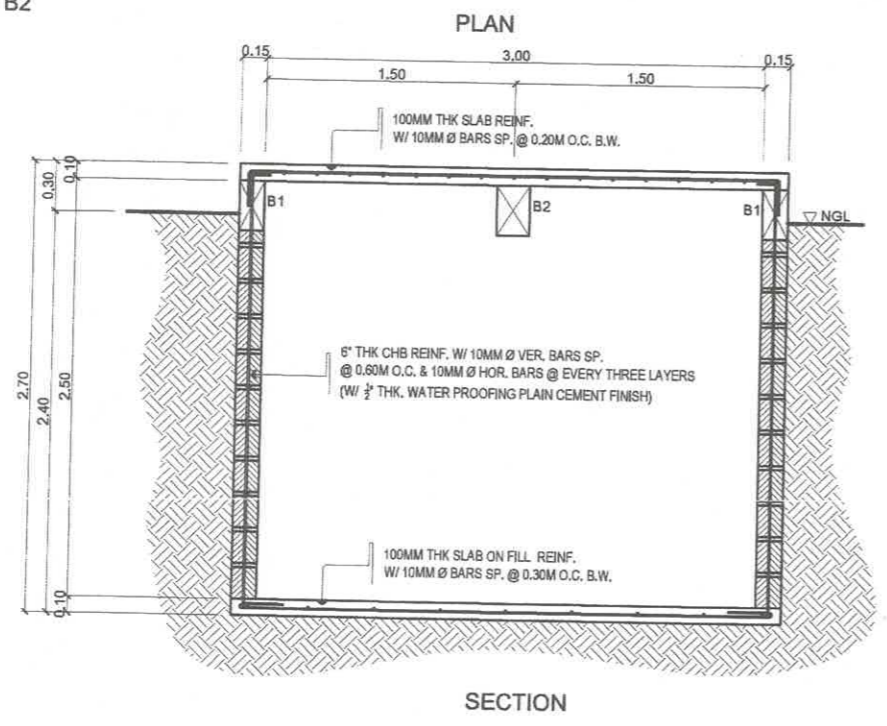
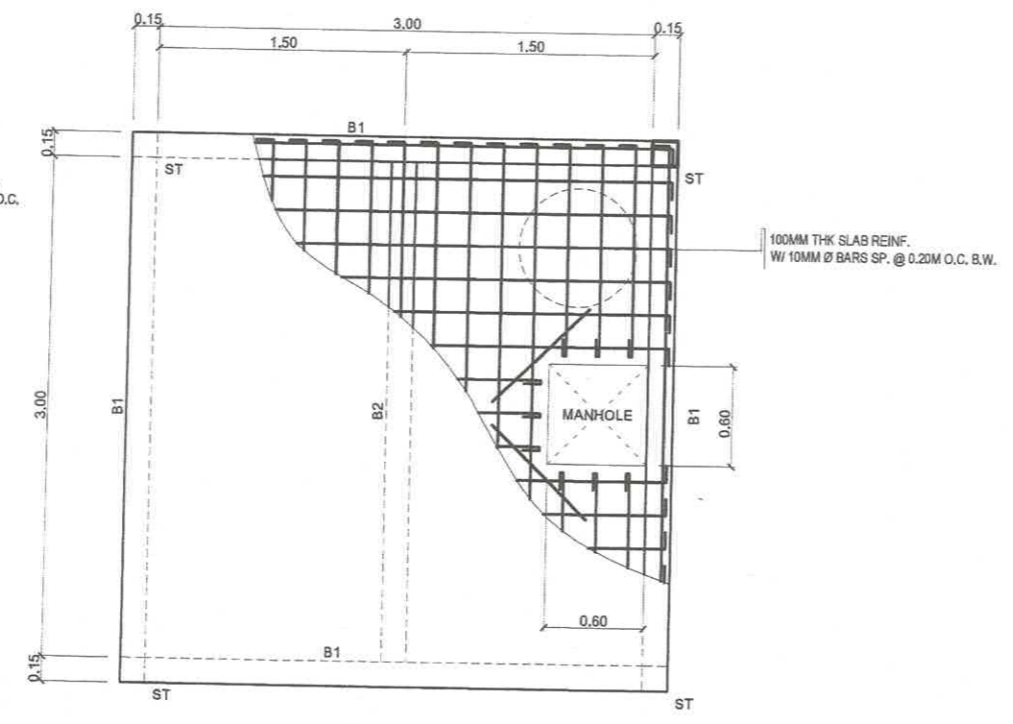
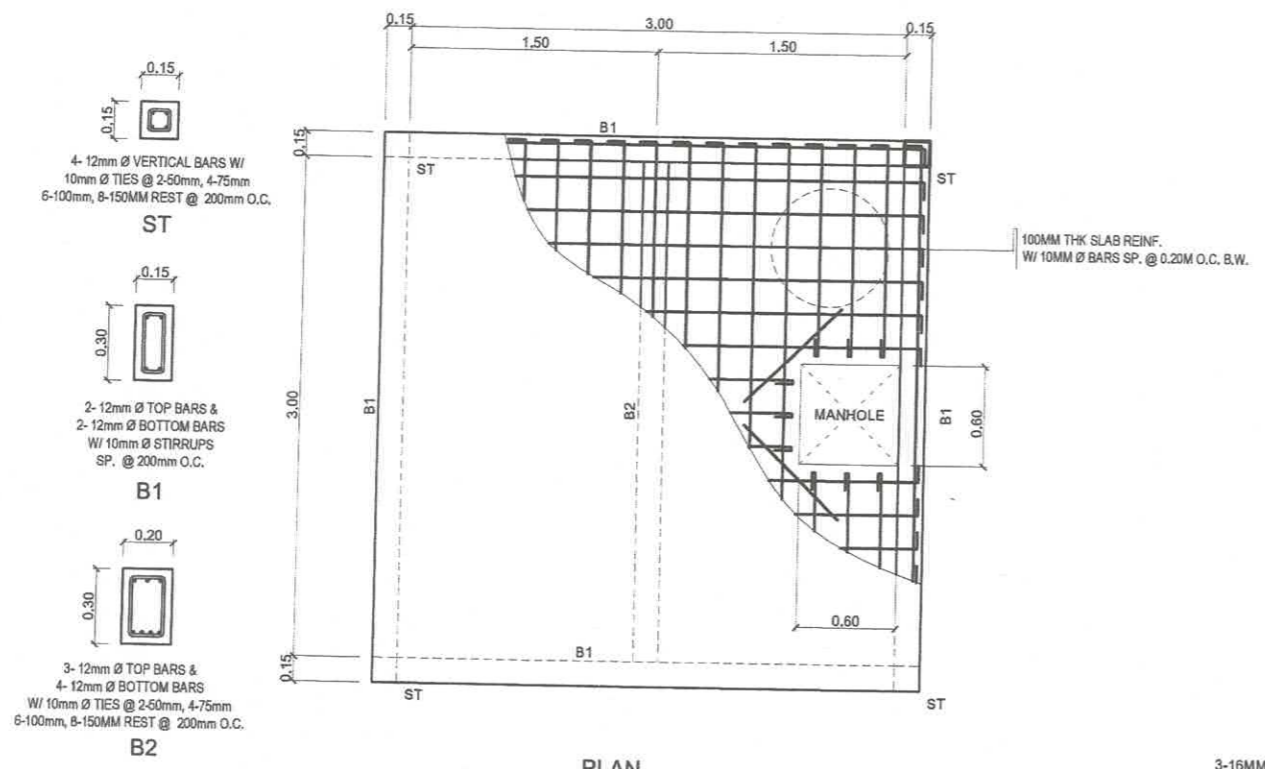


**ELEVATION OF FIRE SCAPE STAIR**

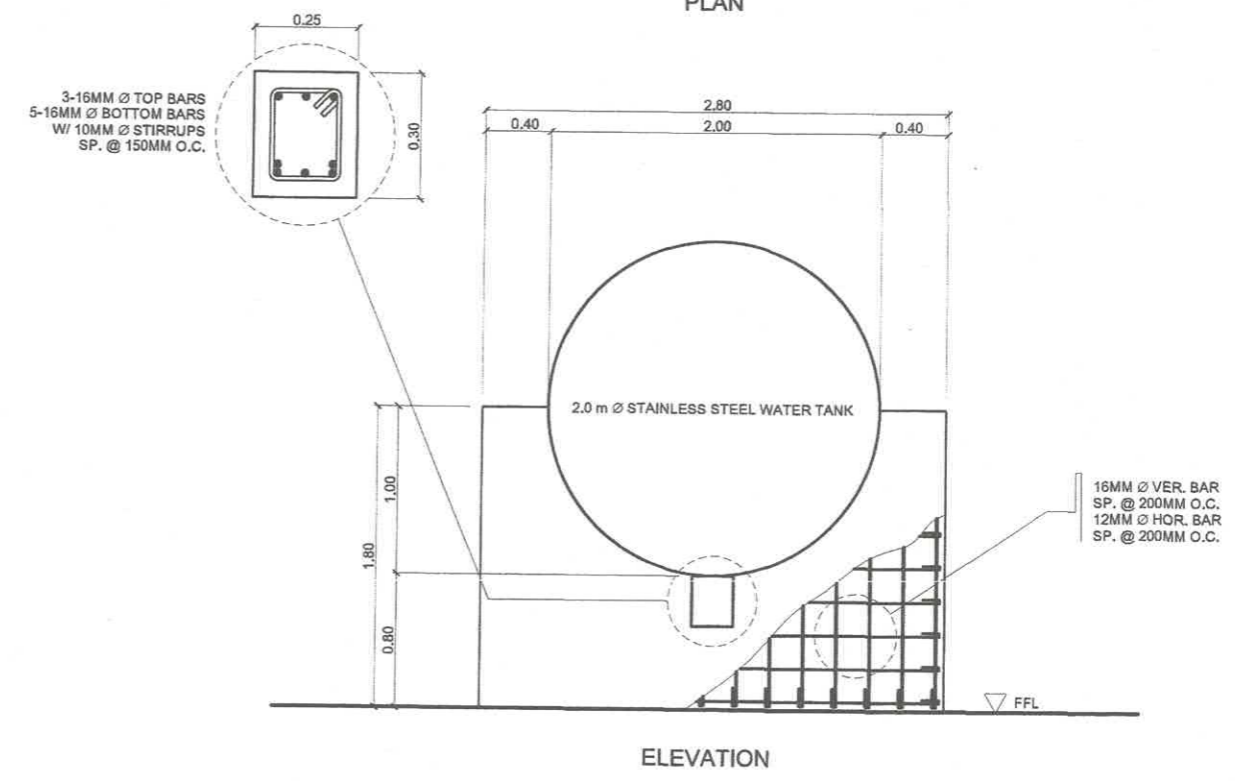
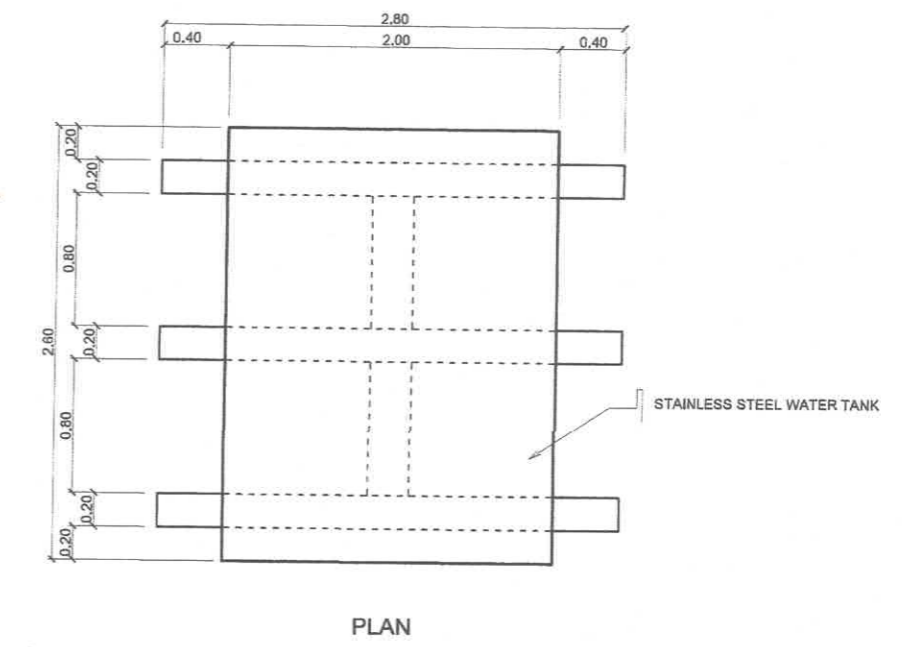
**SPOT DETAIL**

**SCIENCE TECHNOLOGY AND APPLIED RESEARCH (STAR) CENTER**

PREPARED BY: <i>[Signature]</i> <b>E. N. RODEROS JR.</b> <small>PPU</small>	STRUCTURAL ENGINEER: <i>[Signature]</i> <b>M. A. DAGASSAS JR.</b> <small>PPU</small>	END - USER: <i>[Signature]</i> <b>M. M. ESCOBAR</b> <small>DEAN</small>	ENDORSED BY: <i>[Signature]</i> <b>R. B. CUBILLA</b> <small>DIRECTOR PLANNING OFFICE</small>	REC. APPROVAL: <i>[Signature]</i> <b>H. O. GARCIA</b> <small>VPASS</small>	APPROVED BY: <i>[Signature]</i> <b>H. D. ROBLES</b> <small>PRESIDENT</small>	PROJECT TITLE/ LOCATION: <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> <small>CAVITE STATE UNIVERSITY, MAIN CAMPUS</small>	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b> <small>INDANG, CAVITE</small>	SHEET NO: <b>S / 11</b>
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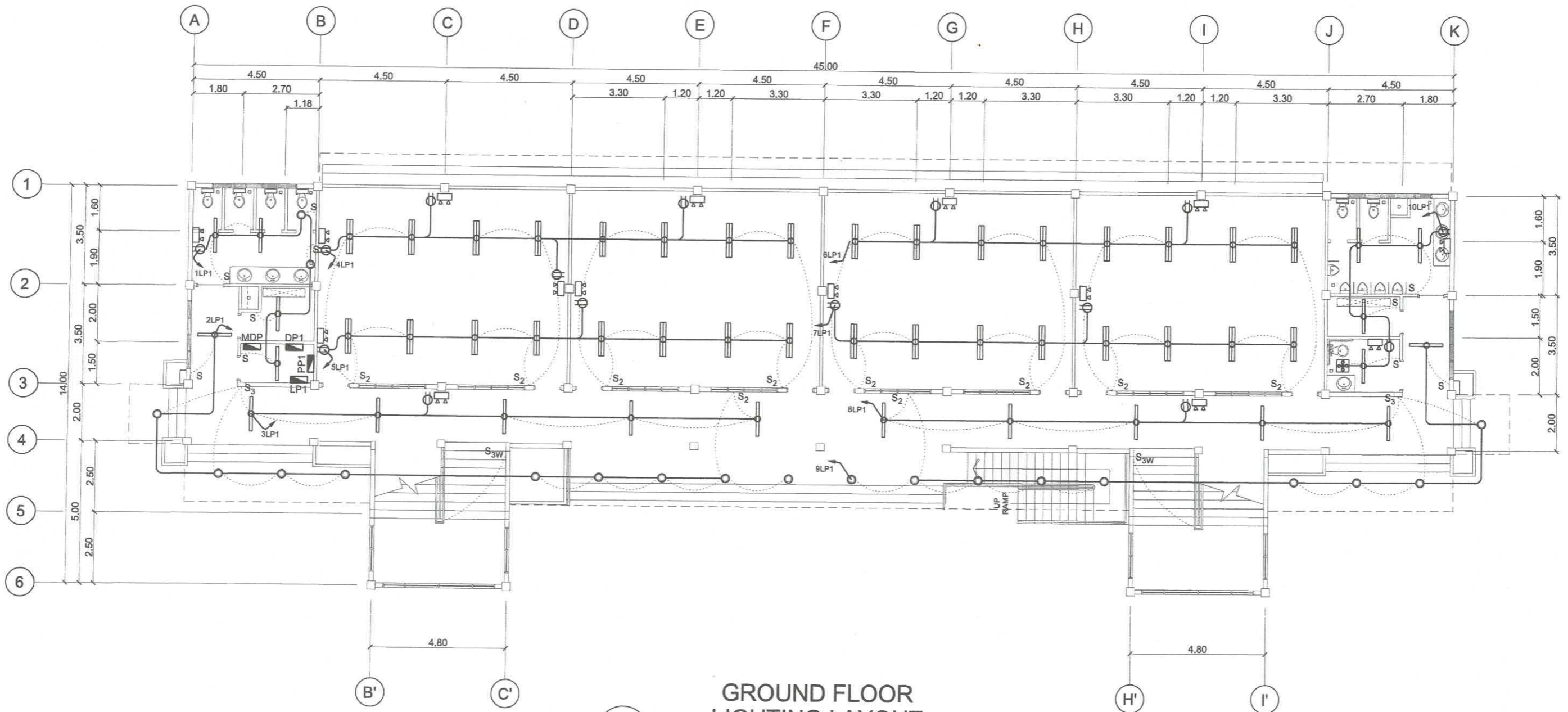


1  
S 9  
**DETAIL OF CISTERN TANK**  
SCALE 1 : 25 m



2  
S 9  
**DETAIL OF WATER TANK SADDLE**  
SCALE 1 : 25 m

PREPARED BY: <b>R. C. ASUNCION</b> PPU CEIT	STRUCTURAL ENGINEER: <b>M. A. DAGASENAS JR.</b> PPU CEIT	END - USER: <b>M. M. ESCOBAR</b> DEAN CEIT	ENDORSED BY: <b>R. B. CUBILLA</b> DIRECTOR PLANNING OFFICE	REC. APPROVAL: <b>H. O. GARCIA</b> VPASS CVSU	APPROVED BY: <b>H. D. ROBLES</b> PRESIDENT CVSU	PROJECT TITLE/ LOCATION: <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO: <b>S 9</b>
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**GROUND FLOOR  
LIGHTING LAYOUT**

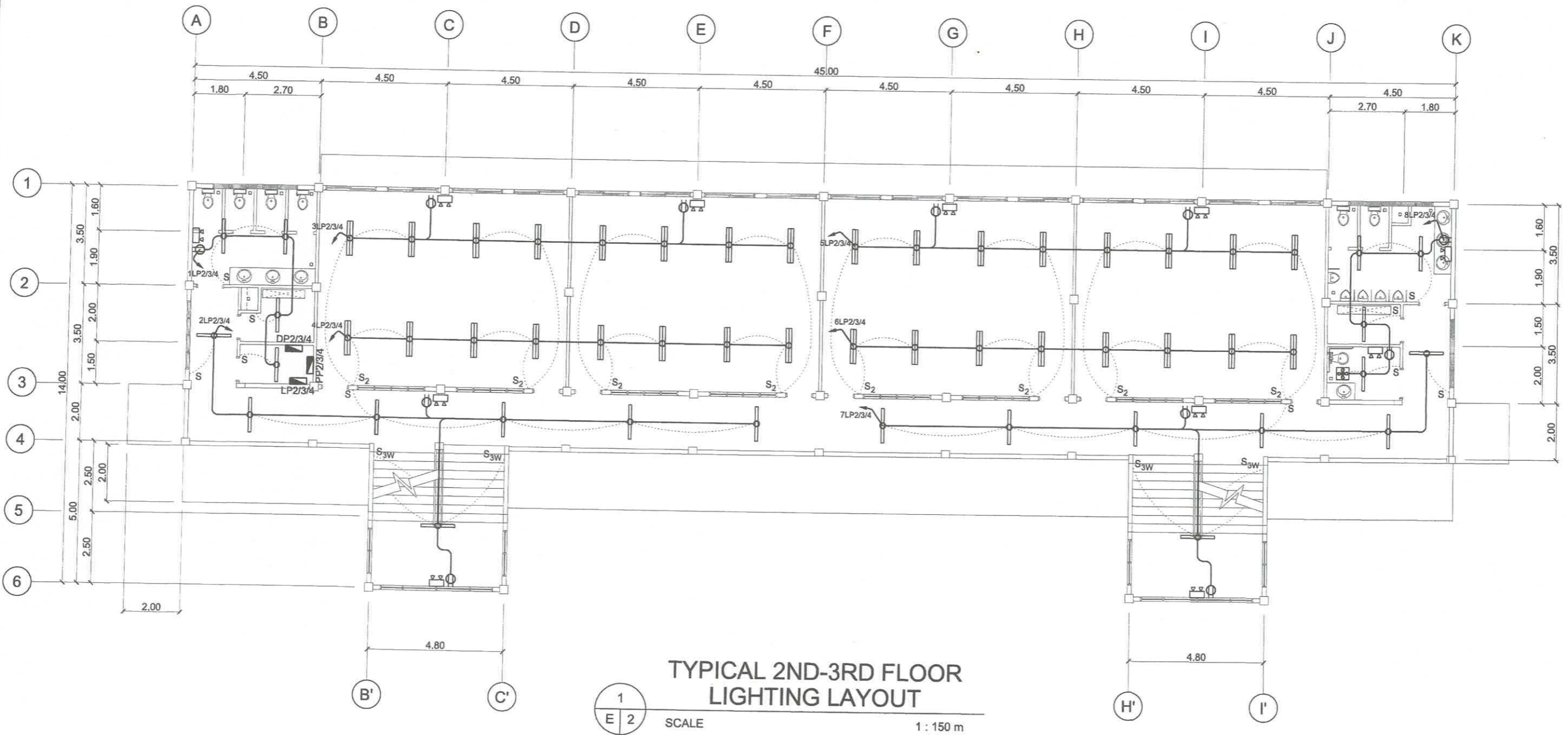
1  
E 1

SCALE

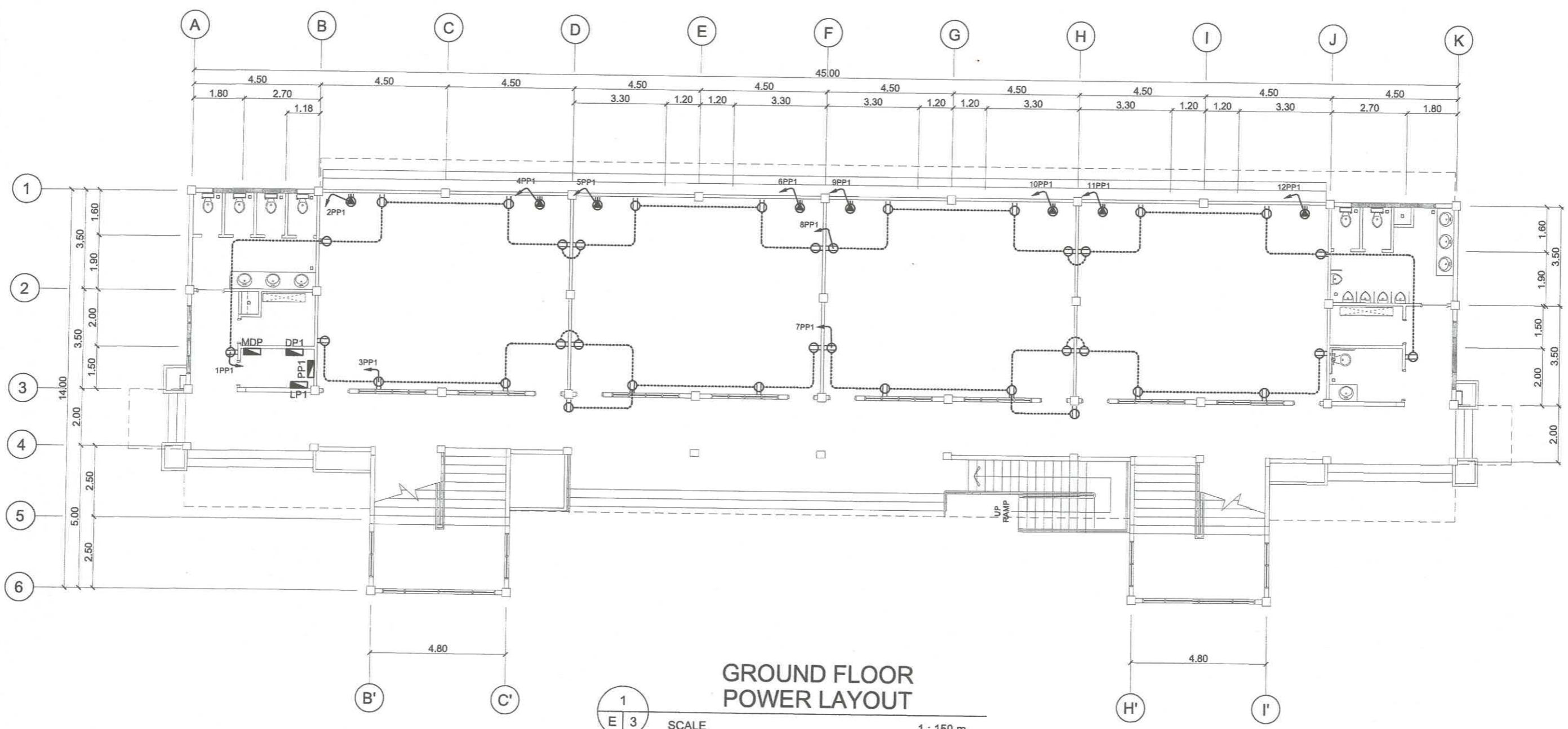
1 : 150 m

PREPARED BY:  <b>R. C. ASUNCION</b> <small>PPU CEIT</small>	PROFESSIONAL ELECTRICAL ENGINEER:  <b>R. P. PEÑA</b> <small>PPU CEIT</small>	END - USER:  <b>M. M. ESCOBAR</b> <small>DEAN CEIT</small>	ENDORSED BY:  <b>R. B. CUBILLA</b> <small>DIRECTOR PLANNING OFFICE</small>	REC. APPROVAL:  <b>H. O. GARCIA</b> <small>VPASS CVSU</small>	APPROVED BY:  <b>H. D. ROBLES</b> <small>PRESIDENT CVSU</small>	PROJECT TITLE/LOCATION <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> <small>CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE</small>	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO: <b>E / 1</b>
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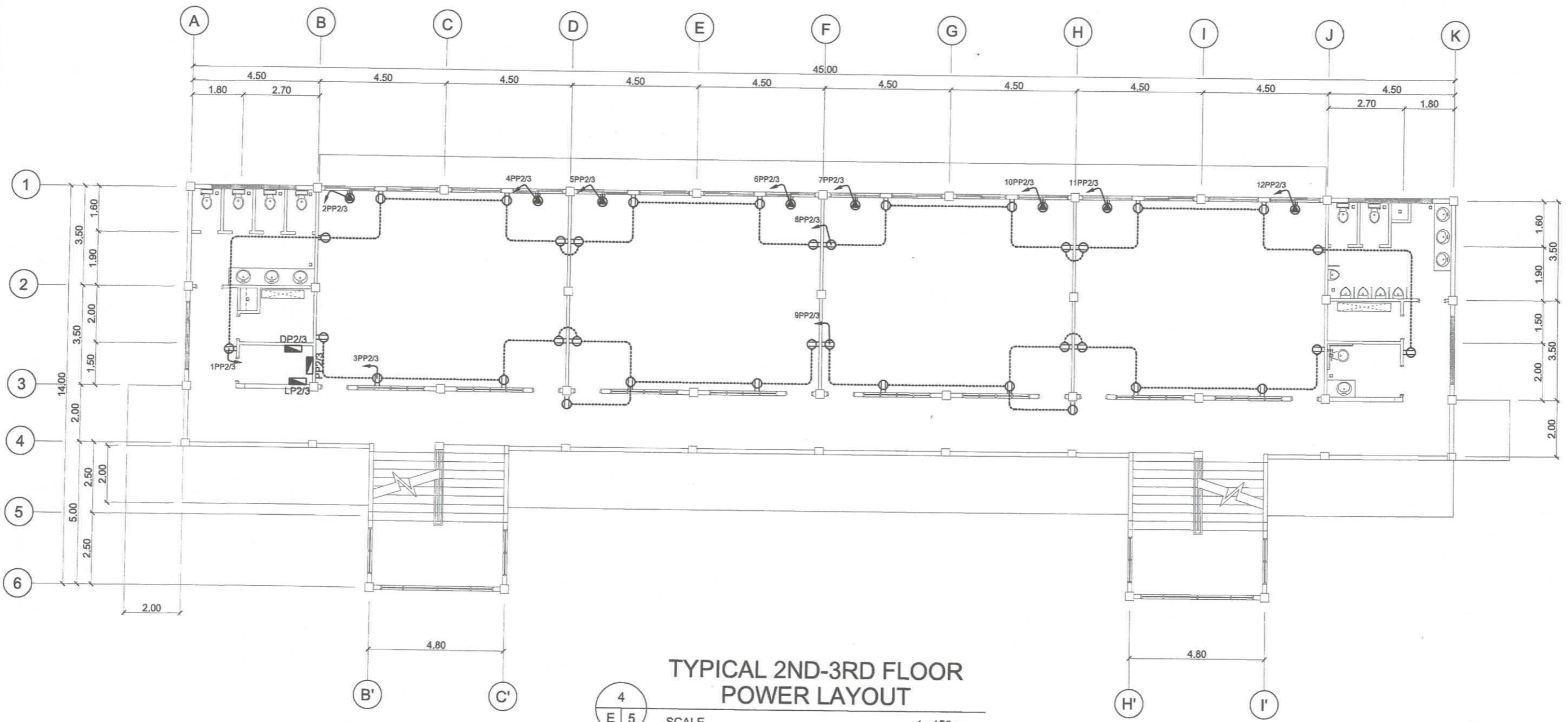
PREPARED BY: <i>R. C. ASUNCION</i> PPU R. C. ASUNCION CEIT	PROFESSIONAL ELECTRICAL ENGINEER: <i>R. P. PENA</i> PPU R. P. PENA CEIT	END - USER: <i>M. M. ESCOBAR</i> DEAN M. M. ESCOBAR CEIT	ENDORSED BY: <i>R. B. CUBILLA</i> DIRECTOR R. B. CUBILLA PLANNING OFFICE	REC. APPROVAL: <i>H. O. GARCIA</i> VPASS H. O. GARCIA CVSU	APPROVED BY: <i>H. D. ROBLES</i> PRESIDENT H. D. ROBLES CVSU	PROJECT TITLE/LOCATION SCIENCE TECHNOLOGY & APPLIED RESEARCH (STAR) CENTER CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO: E / 2
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GROUND FLOOR  
POWER LAYOUT

1  
E 3  
SCALE 1 : 150 m

PREPARED BY: <i>R. C. ASUNCION</i> PPU R. C. ASUNCION CEIT	PROFESSIONAL ELECTRICAL ENGINEER: <i>R. P. PEÑA</i> PPU R. P. PEÑA CEIT	END - USER: <i>M. M. ESCOBAR</i> DEAN M. M. ESCOBAR CEIT	ENDORSED BY: <i>R. B. CUBILLA</i> DIRECTOR R. B. CUBILLA PLANNING OFFICE	REC. APPROVAL: <i>H. O. GARCIA</i> VPASS H. O. GARCIA CVSU	APPROVED BY: <i>H. D. ROBLES</i> PRESIDENT H. D. ROBLES CVSU	PROJECT TITLE/LOCATION SCIENCE TECHNOLOGY & APPLIED RESEARCH (STAR) CENTER CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO: E / 3
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TYPICAL 2ND-3RD FLOOR  
POWER LAYOUT

4  
E 5

SCALE 1 : 150 m

PREPARED BY:  <b>R. C. ASUNCION</b> <small>PPU CEIT</small>	PROFESSIONAL ELECTRICAL ENGINEER:  <b>R. P. PEÑA</b> <small>PPU CEIT</small>	END - USER:  <b>M. M. ESCOBAR</b> <small>DEAN CEIT</small>	ENDORSED BY:  <b>R. B. CUBILLA</b> <small>DIRECTOR PLANNING OFFICE</small>	REC. APPROVAL:  <b>H. O. GARCIA</b> <small>VPASS CVSU</small>	APPROVED BY:  <b>H. D. ROBLES</b> <small>PRESIDENT CVSU</small>	PROJECT TITLE/LOCATION <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> <small>CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE</small>	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO: <b>E / 4</b>
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**MDP - Main Distribution Panel** Three Phases 3-Wires + Ground 230V Surface Mounted

Circuit No.	Name of Panel	Description	Rating of Load		Volt - Amperes			Size of Conductor (mm <sup>2</sup> )		Color Code	Ø Conduit (mm)	Circuit Protection				Type	
			HP	Ø	Volts	Amp	AB	BC	CA			THW	+ THW (G)	AT	AF		kAIC
1	LP1	Ground Floor Lighting Panel		1	230	37.39	8600		2 - 8.0	+ 1 - 5.5	1R, 1BLK, G	25	50	100	10	2	B - On
2	LP2	Second Floor Lighting Panel		1	230	28.70	6800		2 - 8.0	+ 1 - 5.5	1R, 1BLK, G	25	50	100	10	2	B - On
3	LP3	Third Floor Lighting Panel		1	230	28.70	6800		2 - 8.0	+ 1 - 5.5	1R, 1BLK, G	25	50	100	10	2	B - On
4	PP1	Ground Floor Power Panel		1	230	100.87	23200		2 - 30.0	+ 1 - 8.0	1R, 1BLK, G	40	125	100	10	2	B - On
5	PP2	Second Floor Power Panel		1	230	100.87	23200		2 - 30.0	+ 1 - 8.0	1R, 1BLK, G	40	125	100	10	2	B - On
6	PP3	Third Floor Power Panel		1	230	100.87	23200		2 - 30.0	+ 1 - 8.0	1R, 1BLK, G	40	125	100	10	2	B - On
7		Water Pump	2.0	1	230	12.97	2984		2 - 3.5	+ 1 - 3.5	1R, 1BLK, 1G	25	30	100	10	2	B - On
8		FACP		1	230	2.17		500	2 - 2.0		1R, 1BLK	20	20	100	10	2	B - On
9		Spare		1	230												
10		Spare		1	230												
<b>TOTAL</b>				1	230	412.54	31800	32784	30300	3 - 125 mm <sup>2</sup> THHN + 3 - 8.0 mm <sup>2</sup> THHN		3 - 65	300	400	10	3	B - On

**FEEDER and CURRENT PROTECTION COMPUTATION:**

NOTE:  
G - Means Ground Wire  
1R - Color RED  
1BK - Color BLACK  
1G - Color GREEN




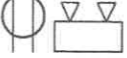












$$IFL = \frac{[1.732 \times 32784 + (0.25 \times 2984)] DF}{230} = 250.12 \text{ Amperes}$$

USE:  
FEEDER: 3 SETS OF 125 mm<sup>2</sup> THHN + 3 - 8.0 THHN mm<sup>2</sup> (G) in 3 - 65mm Ø RSC

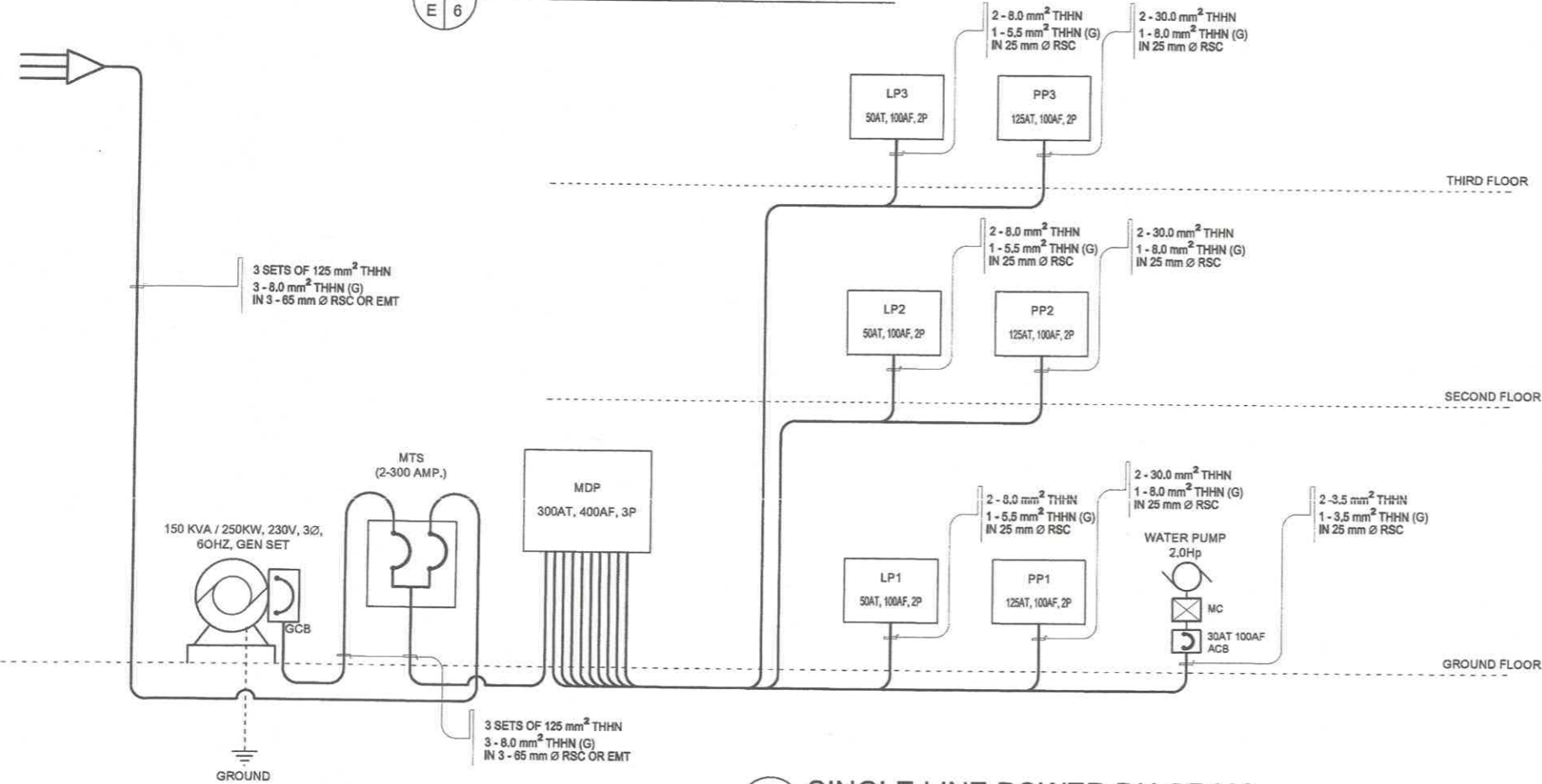
$$ICB = \frac{[1.732 \times 32784 + (2.5 \times 2984)] DF}{230} = 279.31 \text{ Amperes}$$

USE:  
MAIN: 300AT, 400AF, 240V, 3P, 10 kAIC, 6HZ MCB

This Electrical Design is good only for the above connected loads.  
Any additional electrical load connection in the future is prohibited,  
Except redesign of electrical load system will be done.

-  PINLIGHT W/ 11W 2U CFL
-  1-40W FLOURESCENT LIGHT
-  2-40W FLOURESCENT LIGHT
-  EMERGENCY LIGHT
-  EXHAUST FAN
-  ONE GANG SWITCH
-  TWO GANG SWITCH
-  TWO GANG SWITCH
-  THREE WAY SWITCH
-  TWO GANG CONVENIENCE OUTLET
-  THREE PIN ACU OUTLET
-  2.0 mm THHN
-  3.5 mm THHN
-  CIRCUIT HOMERUN
-  CIRCUIT NUMBER
-  PANEL BOARD

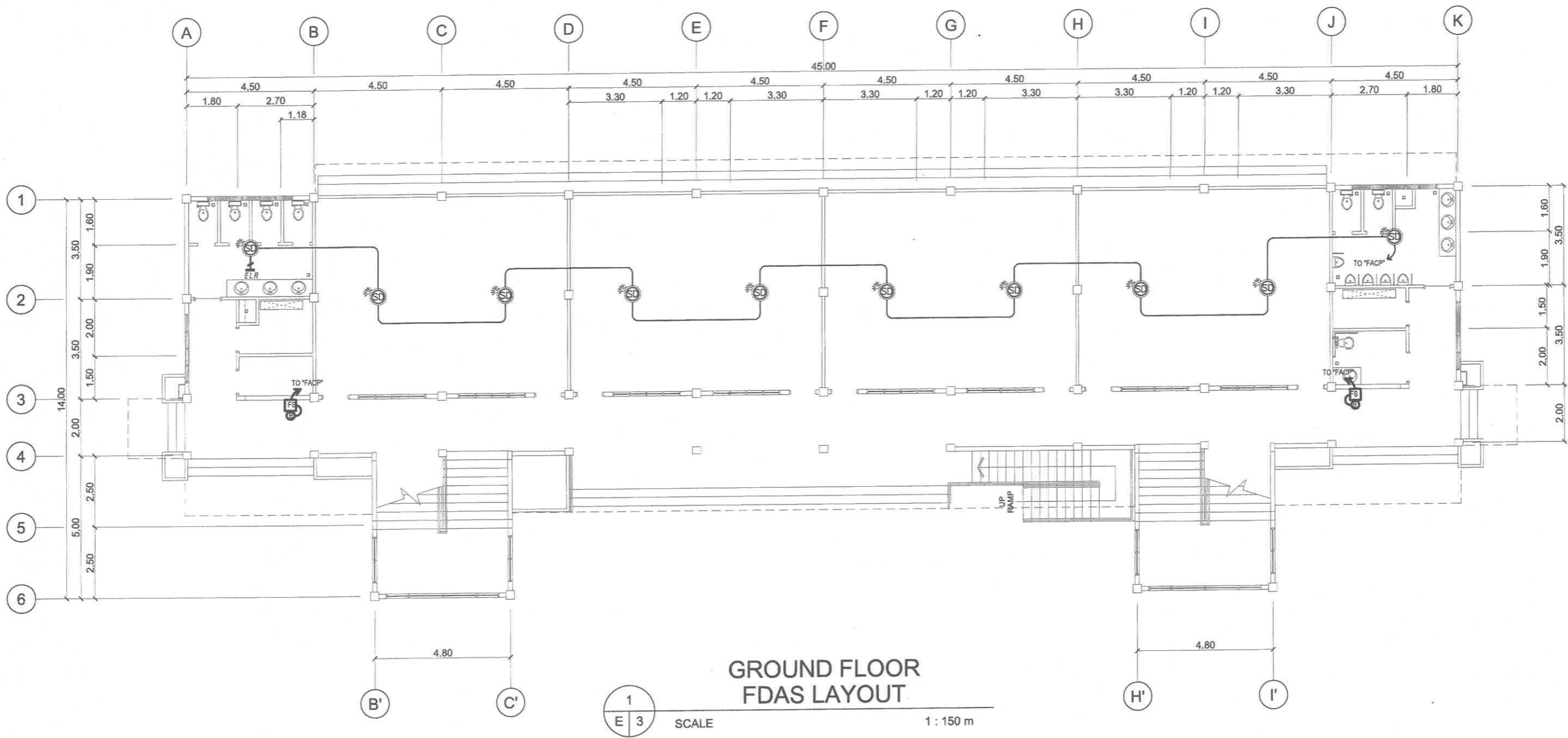
**SCHEDULE OF LOADS**



**SINGLE LINE POWER DIAGRAM**

**ELECTRICAL LEGEND**

PREPARED BY: <b>R. C. ASUNCION</b> PPU CEIT	PROFESSIONAL ELECTRICAL ENGINEER: <b>R. P. PEÑA</b> PPU CEIT	END - USER: <b>M. M. ESCOBAR</b> DEAN CEIT	ENDORSED BY: <b>R. B. CUBILLA</b> DIRECTOR PLANNING OFFICE	REC. APPROVAL: <b>H. O. GARCIA</b> VPASS CVSU	APPROVED BY: <b>H. D. ROBLES</b> PRESIDENT CVSU	PROJECT TITLE / LOCATION: <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> CAVITE STATE UNIVERSITY, MAIN CAMPUS	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b> INDANG, CAVITE	SHEET NO: <b>E / 6</b>
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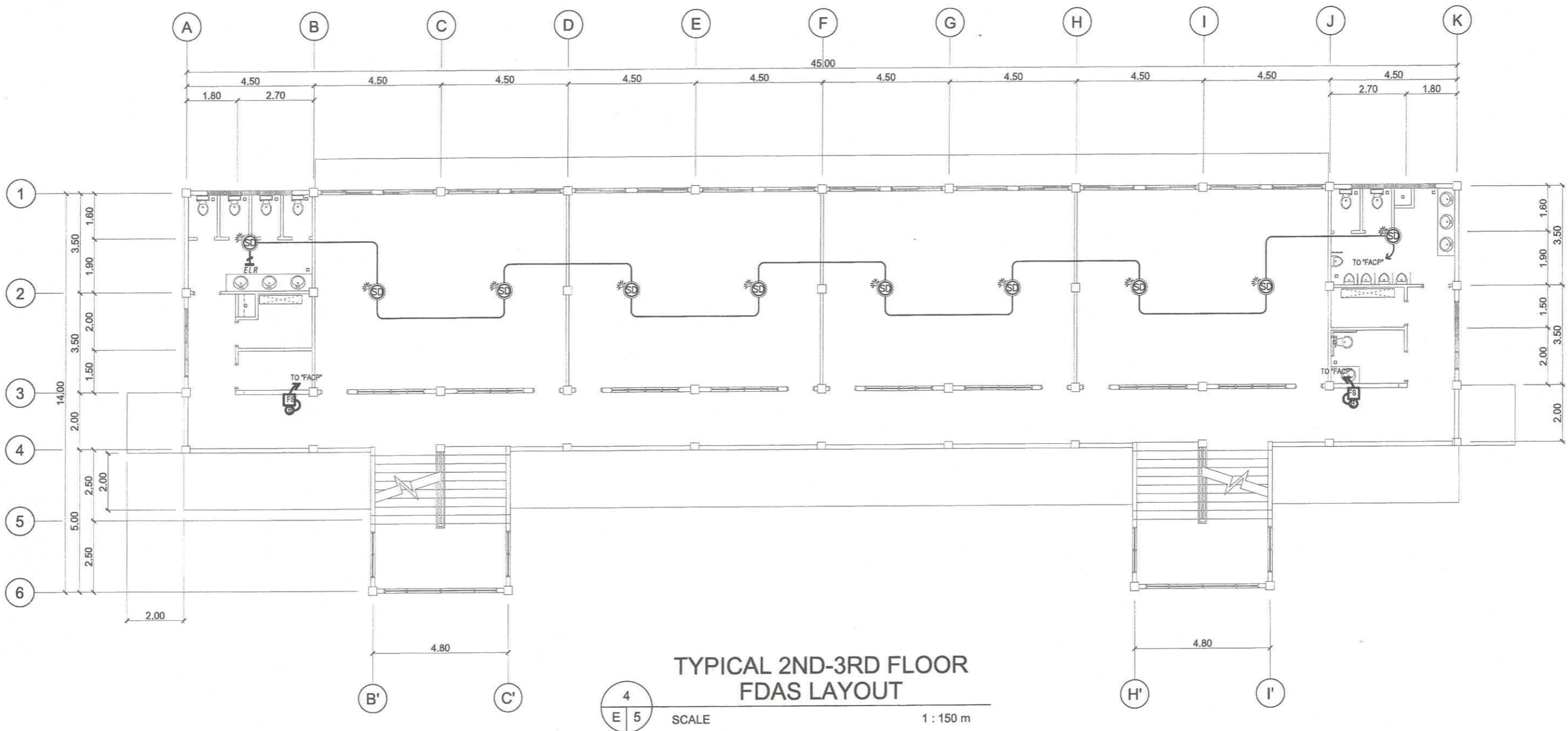
GROUND FLOOR  
FDAS LAYOUT

1  
E 3

SCALE

1 : 150 m

PREPARED BY: <i>E. N. Roderos Jr.</i> <b>E. N. RODEROS JR.</b> PPU CEIT	PROFESSIONAL ELECTRICAL ENGINEER: <i>F. P. Pizna</i> <b>F. P. PIZNA</b> PPU CEIT	END - USER: <i>M. M. Escobar</i> <b>M. M. ESCOBAR</b> PPU DEAN CEIT	ENDORSED BY: <i>R. B. Cubilla</i> <b>R. B. CUBILLA</b> PPU DIRECTOR PLANNING OFFICE	REC. APPROVAL: <i>H. O. Garcia</i> <b>H. O. GARCIA</b> PPU VPASS CVSU	APPROVED BY: <i>H. D. Robles</i> <b>H. D. ROBLES</b> PPU PRESIDENT CVSU	PROJECT TITLE/ LOCATION: <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO.: <b>E / 7</b>
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TYPICAL 2ND-3RD FLOOR  
FDAS LAYOUT

4  
E 5

SCALE

1 : 150 m

PREPARED BY: <i>E. N. Roderos Jr.</i> E. N. RODEROS JR. PPU CEIT	PROFESSIONAL ELECTRICAL ENGINEER: <i>R. M. Peña</i> R. M. PEÑA PPU CEIT	END - USER: <i>M. M. Escobar</i> M. M. ESCOBAR DEAN CEIT	ENDORSED BY: <i>R. B. Oubilla</i> R. B. OUBILLA DIRECTOR PLANNING OFFICE	REC. APPROVAL: <i>H. O. Garcia</i> H. O. GARCIA VPASS CVSU	APPROVED BY: <i>H. D. Robles</i> H. D. ROBLES PRESIDENT CVSU	PROJECT TITLE/LOCATION SCIENCE TECHNOLOGY & APPLIED RESEARCH (STAR) CENTER CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO: E 8
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**LEGEND & SYMBOLS:**

SYMBOL	DESCRIPTIONS
	SMOKE DETECTOR
	FIRE ALARM MANUAL STATION
	FIRE ALARM BELL OUTLET
	HOMERUN TO FACP
	END OF LINE RESISTOR - ELR
	FIRE ALARM CONTROL PANEL
	2-2.0mm <sup>2</sup> , THHN IN 15mmØ C.



**FIRE ALARM BELL**

NOT TO SCALE



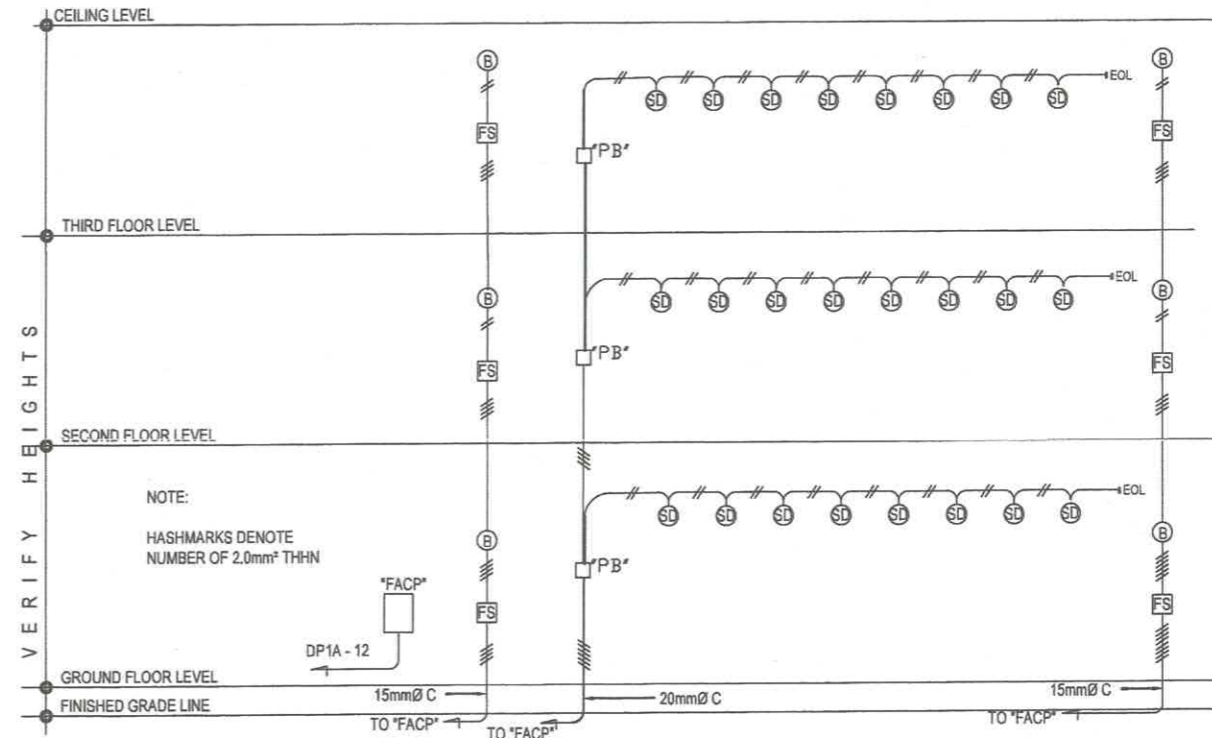
**SMOKE DETECTOR**

NOT TO SCALE



**FIRE ALARM MANUAL STATION FS**

NOT TO SCALE

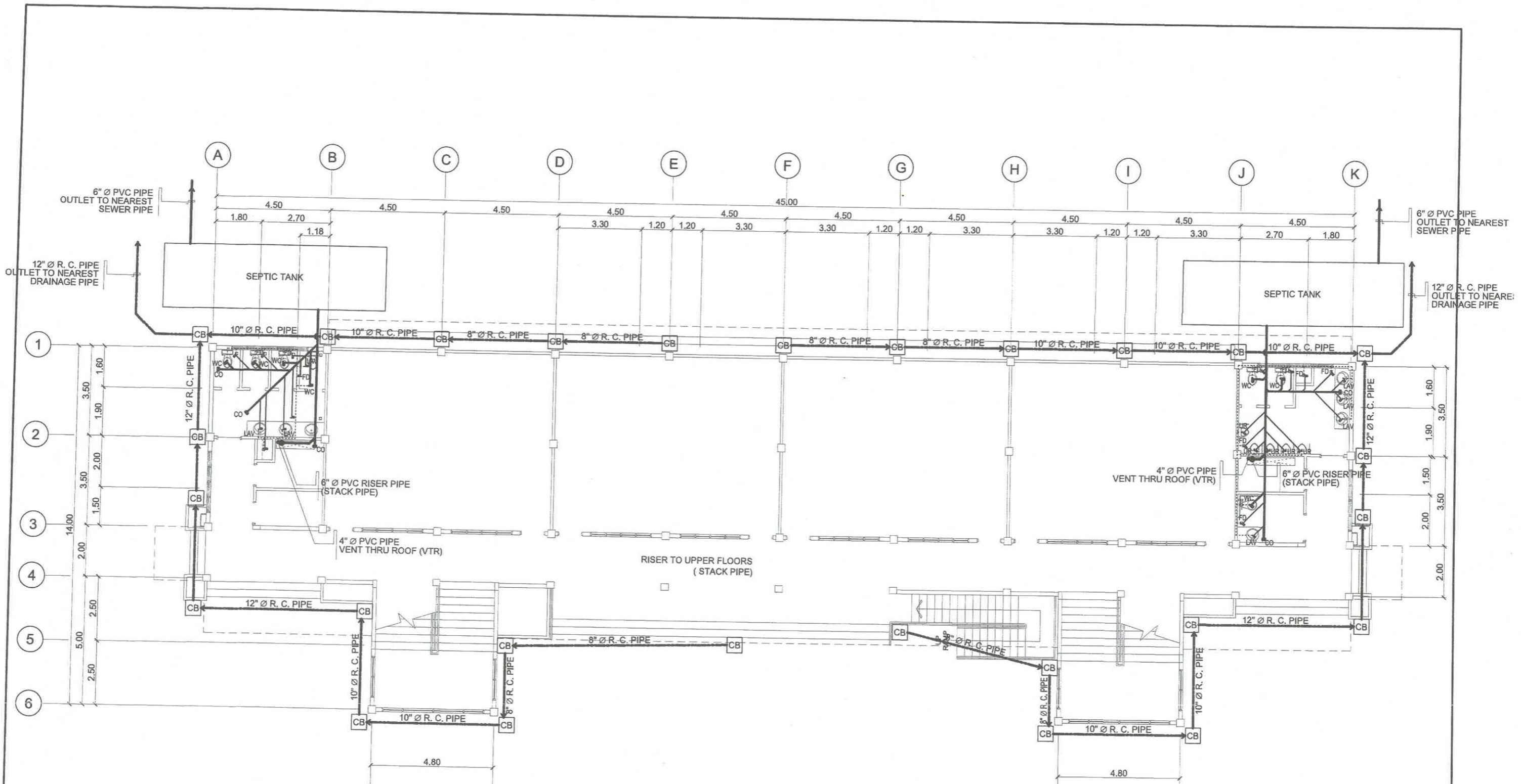


**3 FIRE ALARM SYSTEM RISER DIAGRAM**

NOT TO SCALE

PREPARED BY: <i>E. N. Roderos Jr.</i> E. N. RODEROS JR. PPU	PROFESSIONAL ELECTRICAL ENGINEER: <i>R. P. Pena</i> R. P. PENA PPU	END - USER: <i>M. M. Escobar</i> M. M. ESCOBAR DEAN	ENDORSED BY: <i>R. B. Cubilla</i> R. B. CUBILLA DIRECTOR PLANNING OFFICE	REC. APPROVAL: <i>H. O. Garcia</i> H. O. GARCIA VPASS	APPROVED BY: <i>H. D. Robles</i> H. D. ROBLES PRESIDENT	PROJECT TITLE/ LOCATION: SCIENCE TECHNOLOGY & APPLIED RESEARCH (STAR) CENTER CAVITE STATE UNIVERSITY, MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY INDANG, CAVITE	SHEET NO: E/9
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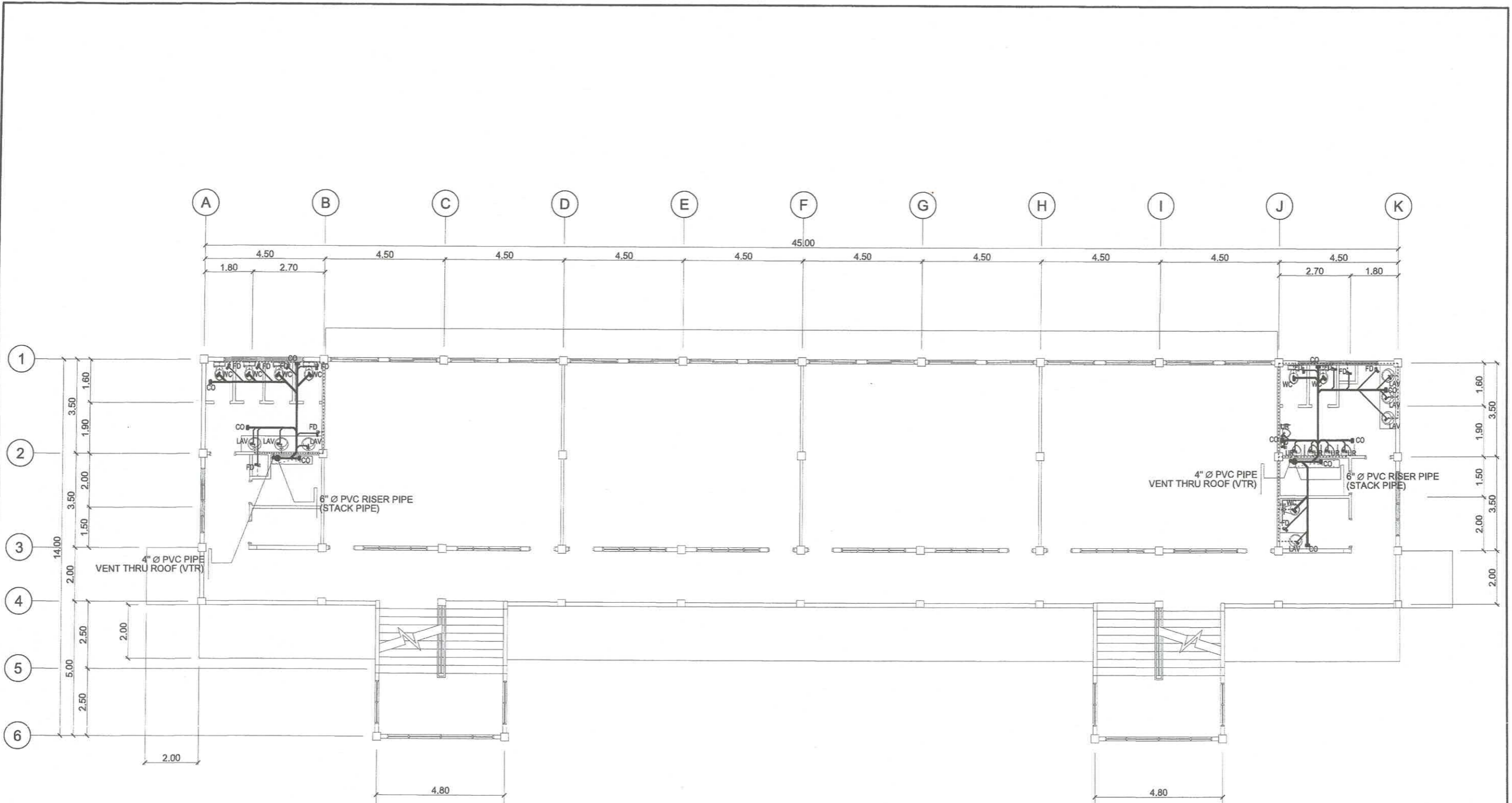




**GROUND FLOOR  
SEWER & DRAINAGE LAYOUT**

SCALE 1 : 150 m

PREPARED BY: <i>[Signature]</i> <b>R. C. ASUNCION</b> PPU CEIT	MASTER PLUMBER: <i>[Signature]</i> <b>S. B. BAYOT JR.</b> PPU CEIT	END - USER: <i>[Signature]</i> <b>M. M. ESCOBAR</b> DEAN CEIT	ENDORSED BY: <i>[Signature]</i> <b>R. B. CUBILLA</b> DIRECTOR PLANNING OFFICE	REC. APPROVAL: <i>[Signature]</i> <b>H. O. GARCIA</b> VPASS CVSU	APPROVED BY: <i>[Signature]</i> <b>H. D. ROBLES</b> PRESIDENT CVSU	PROJECT TITLE/ LOCATION: <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO: <b>P / 1</b>
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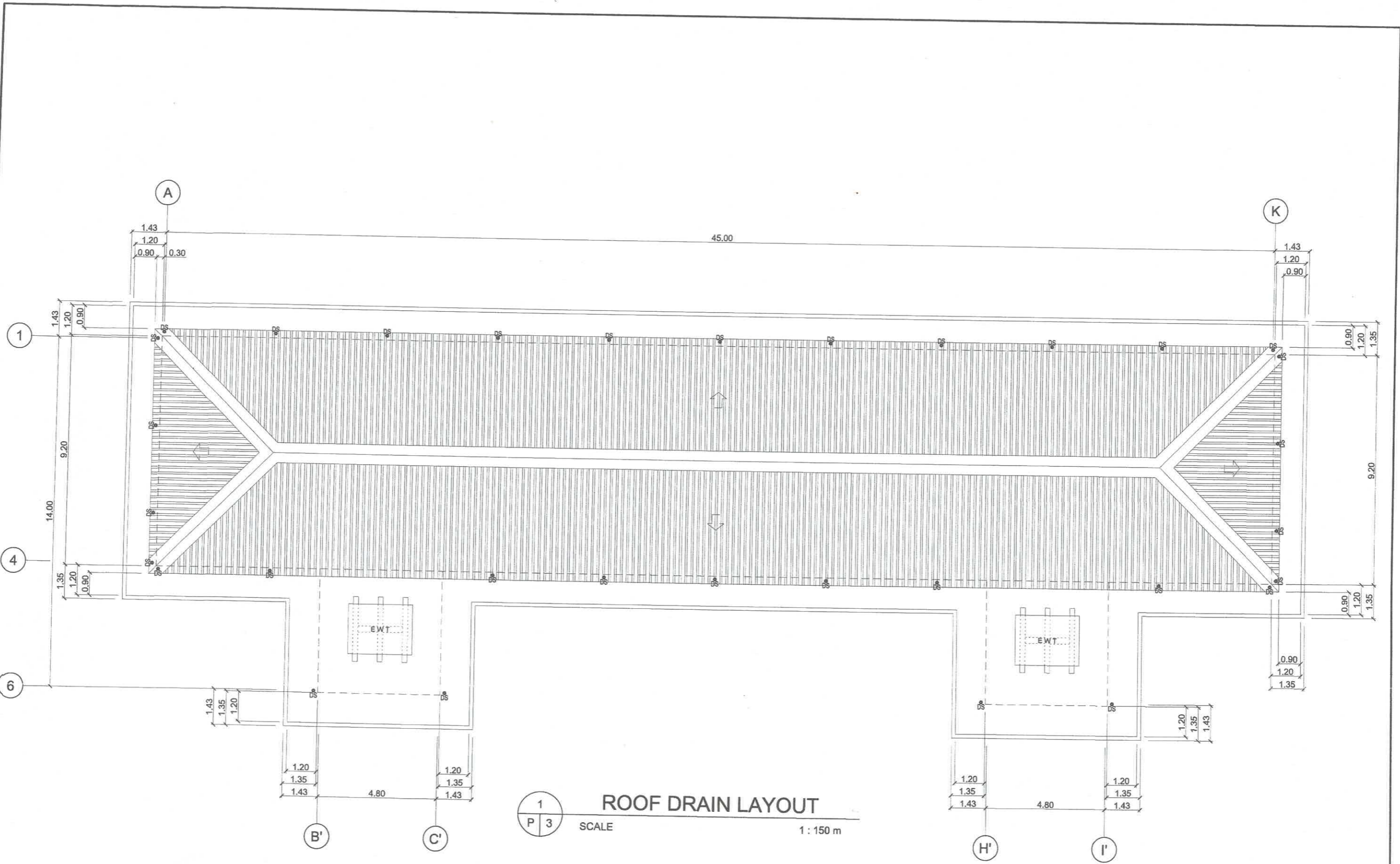


TYPICAL 2ND-3RD FLOOR  
SEWER & DRAINAGE LAYOUT

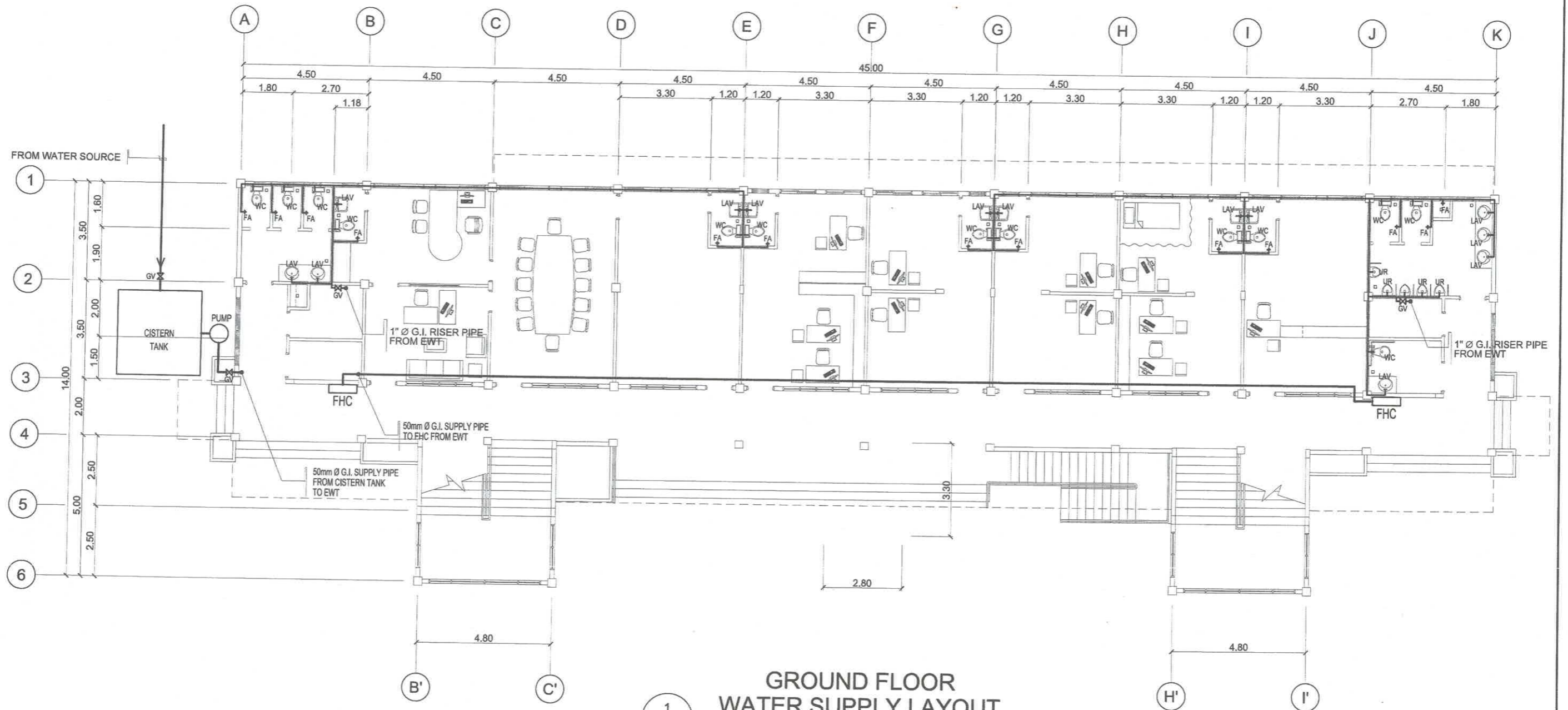
1  
P 2

SCALE 1 : 150 m

PREPARED BY: <b>R. C. ASUNCION</b> PPU CEIT	MASTER PLUMBER: <b>S. B. BAYOT JR.</b> PPU CEIT	END - USER: <b>M. M. ESCOBAR</b> DEAN CEIT	ENDORSED BY: <b>R. B. CUBILLA</b> DIRECTOR PLANNING OFFICE	REC. APPROVAL: <b>H. O. GARCIA</b> VPASS CVSU	APPROVED BY: <b>H. D. ROBLES</b> PRESIDENT CVSU	PROJECT TITLE/ LOCATION: <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> CAVITE STATE UNIVERSITY, MAIN CAMPUS INDAUG, CAVITE	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO.: <b>P 2</b>
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PREPARED BY: <i>R.C. Asuncion</i> <b>R. C. ASUNCION</b> PPU CEIT	MASTER PLUMBER: <i>S.B. Bayot Jr.</i> <b>S. B. BAYOT JR.</b> PPU CEIT	END - USER: <i>M.M. Escobar</i> <b>M.M. ESCOBAR</b> DEAN CEIT	ENDORSED BY: <i>R.B. Cubilla</i> <b>R. B. CUBILLA</b> DIRECTOR PLANNING OFFICE	REC. APPROVAL: <i>H.O. Garcia</i> <b>H. O. GARCIA</b> VPASS CVSU	APPROVED BY: <i>Hvd. Robles</i> <b>HVD. ROBLES</b> PRESIDENT CVSU	PROJECT TITLE/ LOCATION <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO.: <b>P / 3</b>
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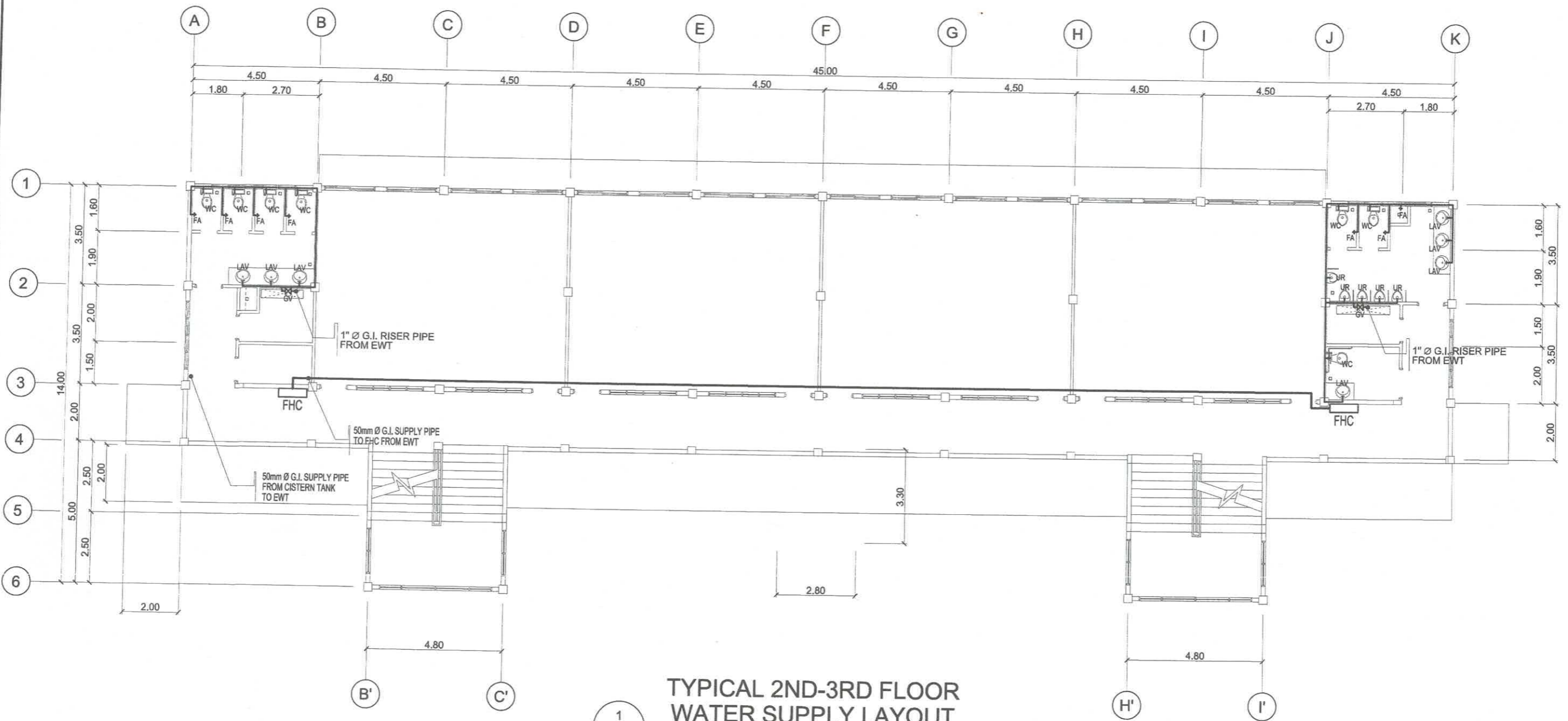


**GROUND FLOOR  
WATER SUPPLY LAYOUT**

1 / P 4

SCALE 1 : 150 m

PREPARED BY:  <b>R. C. ASUNCION</b> <small>PPU CEIT</small>	MASTER PLUMBER:  <b>S. B. BAYOT JR.</b> <small>PPU CEIT</small>	END - USER:  <b>M. M. ESCOBAR</b> <small>DEAN CEIT</small>	ENDORSED BY:  <b>R. B. CUBILLA</b> <small>DIRECTOR PLANNING OFFICE</small>	REC. APPROVAL:  <b>H. O. GARCIA</b> <small>VPASS CVSU</small>	APPROVED BY:  <b>H. D. ROBLES</b> <small>PRESIDENT CVSU</small>	PROJECT TITLE/ LOCATION <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> <small>CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE</small>	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO: <b>P 4</b>
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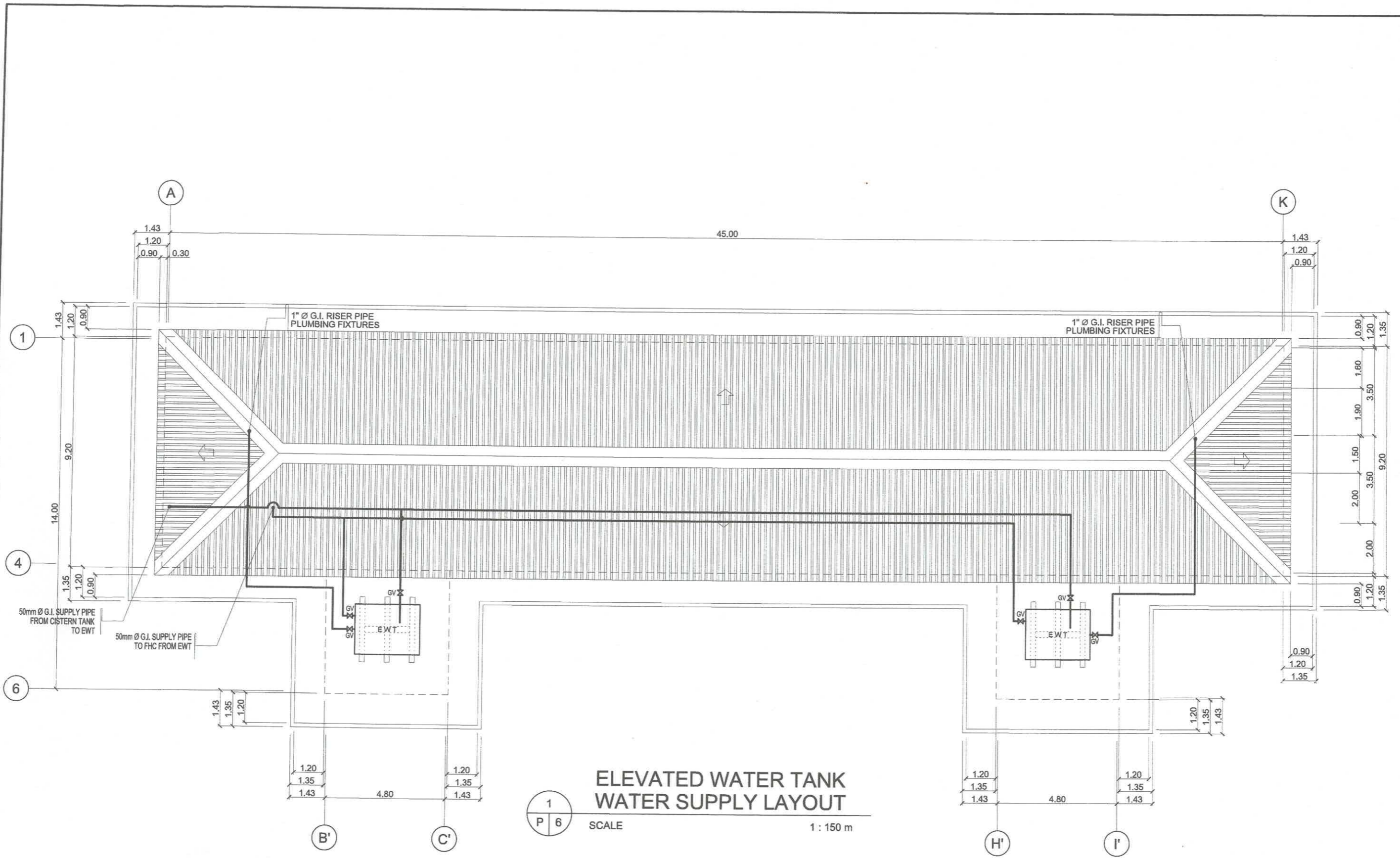


TYPICAL 2ND-3RD FLOOR  
WATER SUPPLY LAYOUT

1  
P 5

SCALE 1 : 150 m

PREPARED BY:  <b>R. C. ASUNCION</b> PPU CEIT	MASTER PLUMBER:  <b>S. B. BAYOT JR.</b> PPU CEIT	END - USER:  <b>M. M. ESCOBAR</b> DEAN CEIT	ENDORSED BY:  <b>R. B. OUBILLA</b> DIRECTOR PLANNING OFFICE	REC. APPROVAL:  <b>H. O. GARCIA</b> VPASS CVSU	APPROVED BY:  <b>H. D. ROBLES</b> PRESIDENT CVSU	PROJECT TITLE/ LOCATION: <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO.: <b>P 5</b>
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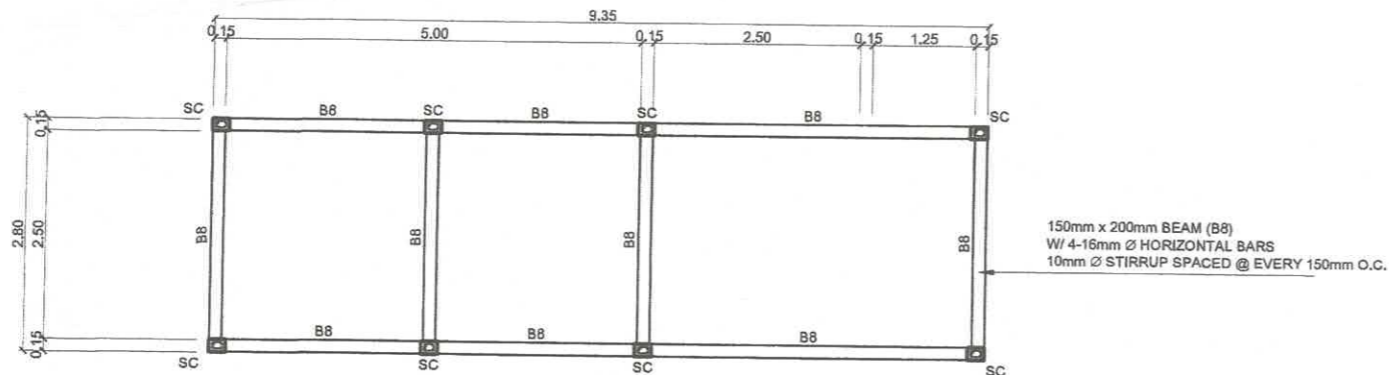


**ELEVATED WATER TANK  
WATER SUPPLY LAYOUT**

1  
P 6

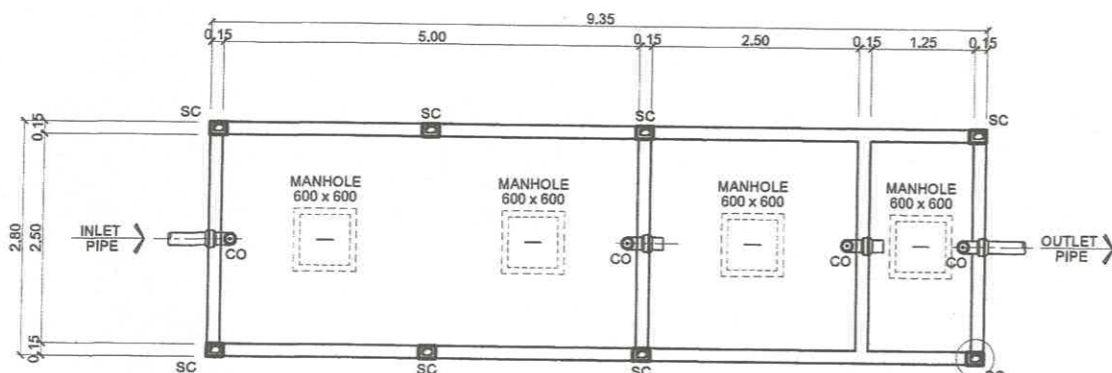
SCALE 1 : 150 m

PREPARED BY:  <b>R. C. ASUNCION</b> <small>PPU CEIT</small>	MASTER PLUMBER:  <b>S. B. BAYOT JR.</b> <small>PPU CEIT</small>	END - USER:  <b>M. M. ESCOBAR</b> <small>DEAN CEIT</small>	ENDORSED BY:  <b>R. B. CUBILLA</b> <small>DIRECTOR PLANNING OFFICE</small>	REC. APPROVAL:  <b>H. O. GARCIA</b> <small>VPASS CVSU</small>	APPROVED BY:  <b>H. D. ROBLES</b> <small>PRESIDENT CVSU</small>	PROJECT TITLE/ LOCATION: <b>SCIENCE TECHNOLOGY &amp; APPLIED RESEARCH (STAR) CENTER</b> <small>CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE</small>	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHEET NO: <b>P 6</b>
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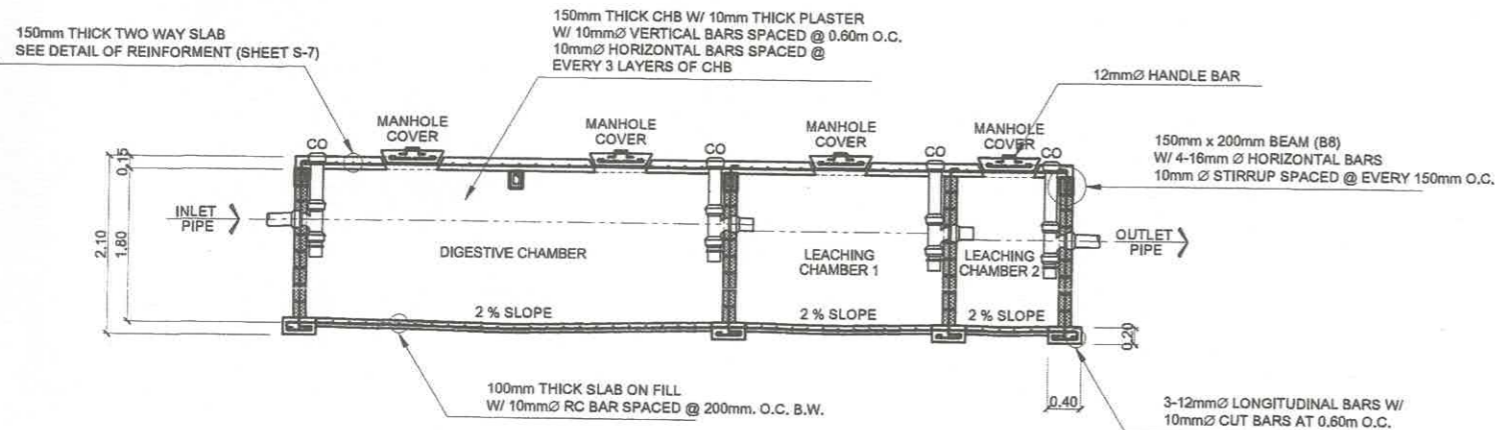
BEAM PLAN

150mm x 200mm BEAM (B8)  
W/ 4-16mm Ø HORIZONTAL BARS  
10mm Ø STIRRUP SPACED @ EVERY 150mm O.C.



PLAN

150mm x 200mm STIFFENER COLUMN (SC)  
W/ 4-16mm Ø VERTICAL BARS, 10mm Ø TIES  
SPACED @ EVERY 200mm O.C.



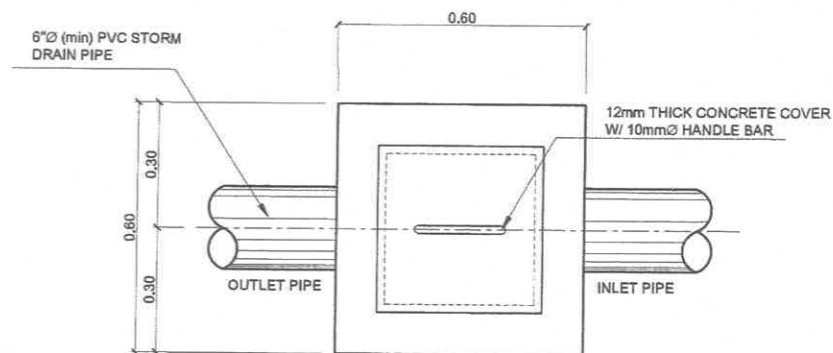
ELEVATION

TYPICAL DETAIL OF SEPTIC TANK

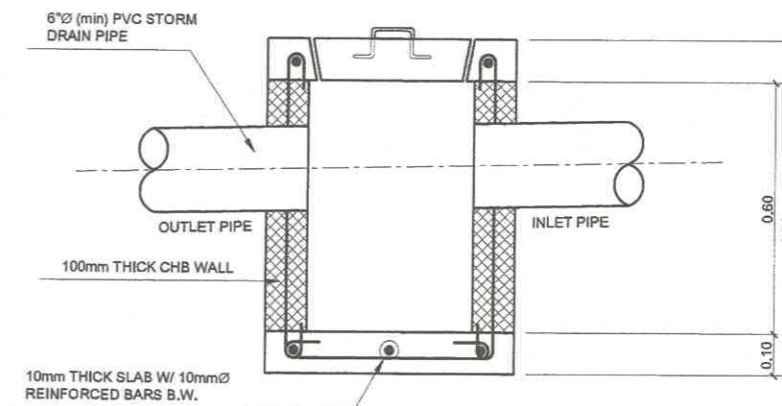
1  
P 7

SCALE

1 : 50 m



PLAN



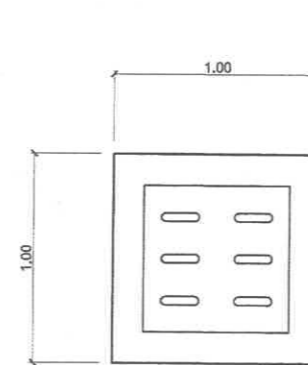
ELEVATION

CATCH BASIN/  
JUNCTION BOX DETAIL

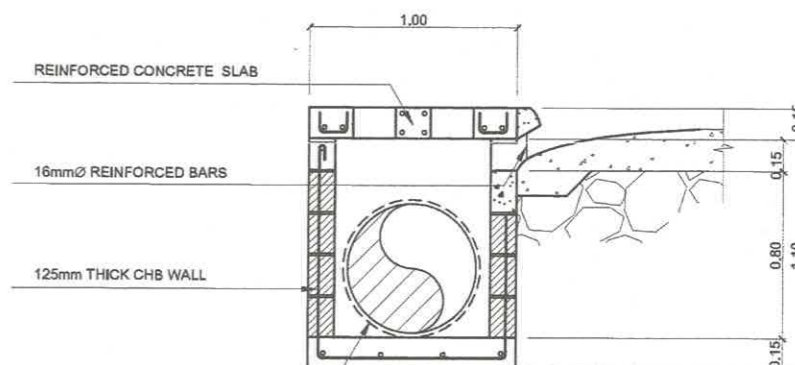
2  
P 7

SCALE

1 : 10 m



PLAN



ELEVATION

3  
P 7

AREA DRAIN/  
MANHOLE

SCALE

1 : 20 m

PREPARED BY: <b>R. C. ASUNCION</b> PPU CEIT	MASTER PLUMBER: <b>S. B. BAYOT JR.</b> PPU CEIT	END - USER: <b>M. M. ESCOBAR</b> DEAN CEIT	ENDORSED BY: <b>R. B. CUBILLA</b> DIRECTOR PLANNING OFFICE	REC. APPROVAL: <b>H. O. GARCIA</b> VPASS CVSU	APPROVED BY: <b>N. D. ROBLES</b> PRESIDENT CVSU	PROJECT TITLE/ LOCATION SCIENCE TECHNOLOGY & APPLIED RESEARCH (STAR) CENTER CAVITE STATE UNIVERSITY, MAIN CAMPUS INDANG, CAVITE	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO: P 7
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