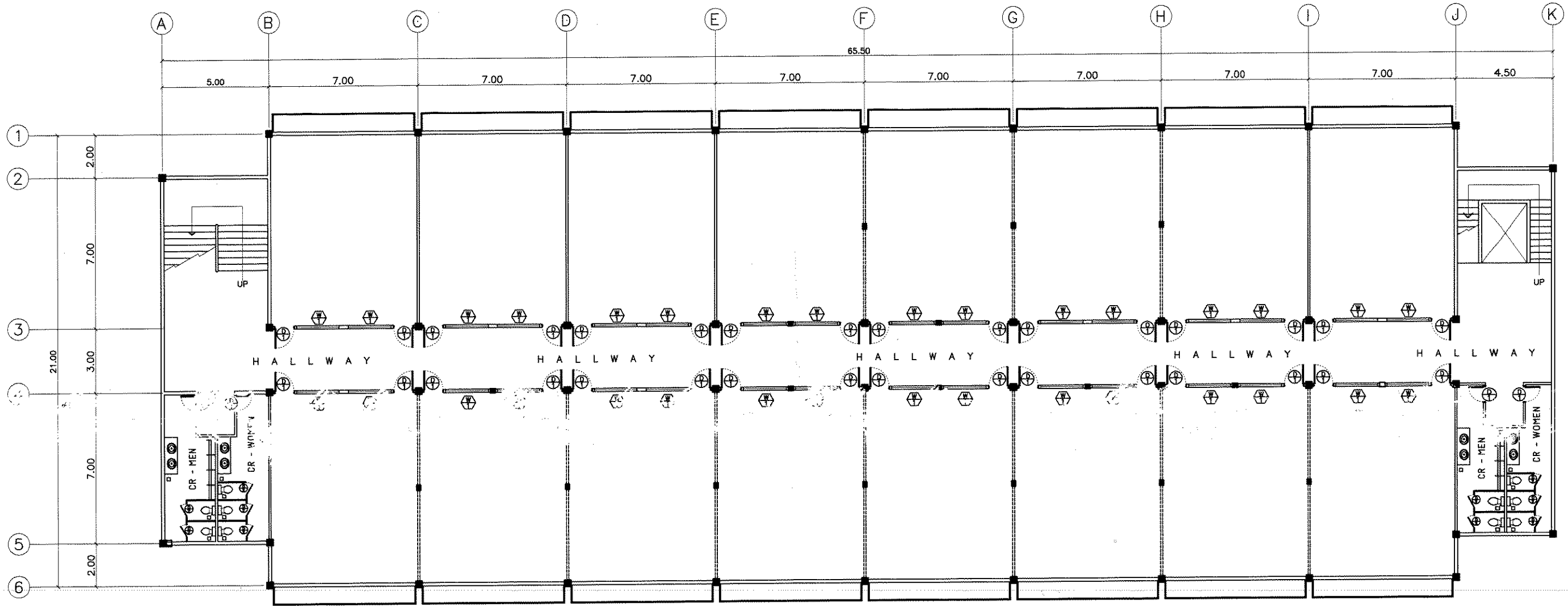


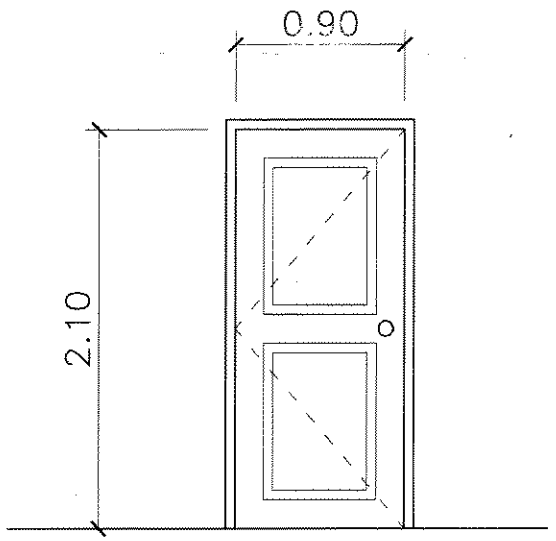
FOURTH FLOOR PLAN

SCALE: 1:200 MTS.

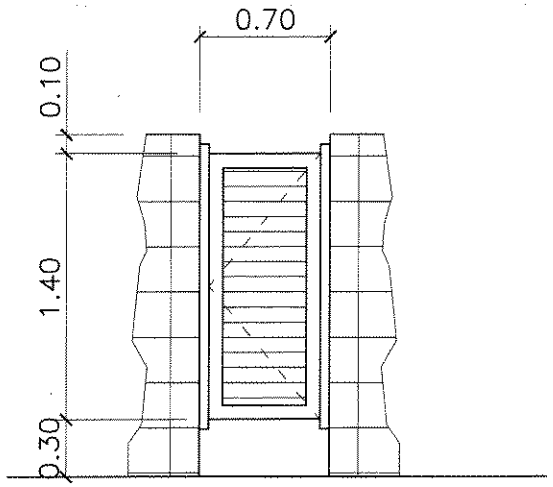
LEGEND:

- NON–EXISTENT
- EXISTING

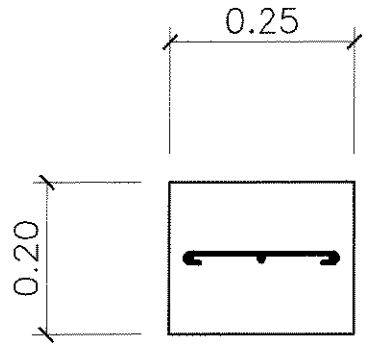
PREPARED BY:						
J. D. ESCANO PPU OVPPD						
END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY / SHT NO:
M. MACALALAD DEAN BACOOR CAMPUS	O. B. [illegible] REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. [illegible] PRES CVSU	PROPOSED PARTITION WALL @ [illegible] FLOOR OF CVSU BACOOR CAMPUS [illegible] BLDG. CAVITE STATE UNIVERSITY BACOOR CAMPUS	CAVITE STATE UNIVERSITY A – 1

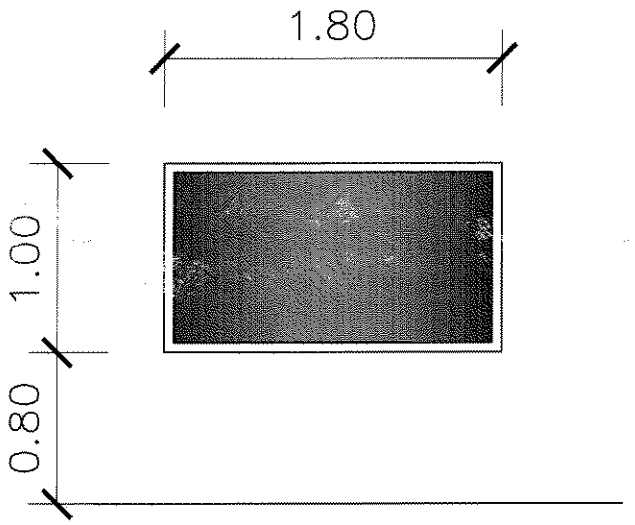


D/1 0.90 X 2.10 STEEL DOOR
W/ COMPLETE ACCESSORIES
36 SETS



D/2 0.70 X 1.40 PVC DOOR W/ COMPLETE
ACCESSORIES AND PARTITION
10 SETS

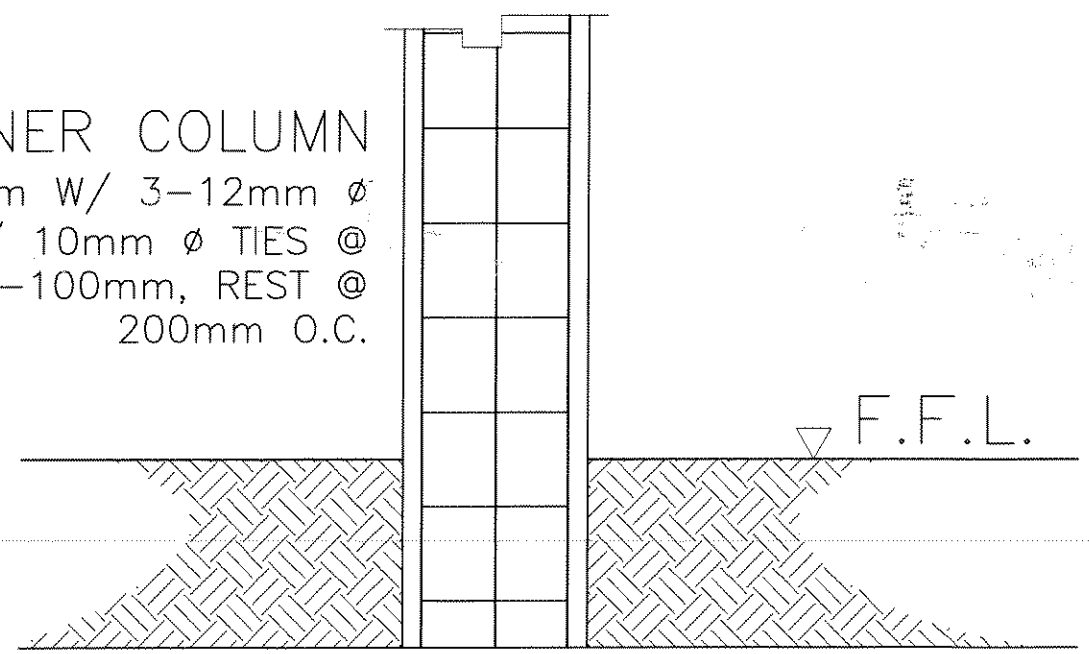




W/1 ALUMINUM FIXED WINDOW COMPLETE W /
ALL ACCESSORIES W / $\frac{1}{4}$" THK CLEAR GLASS
32 SETS

STIFFENER COLUMN

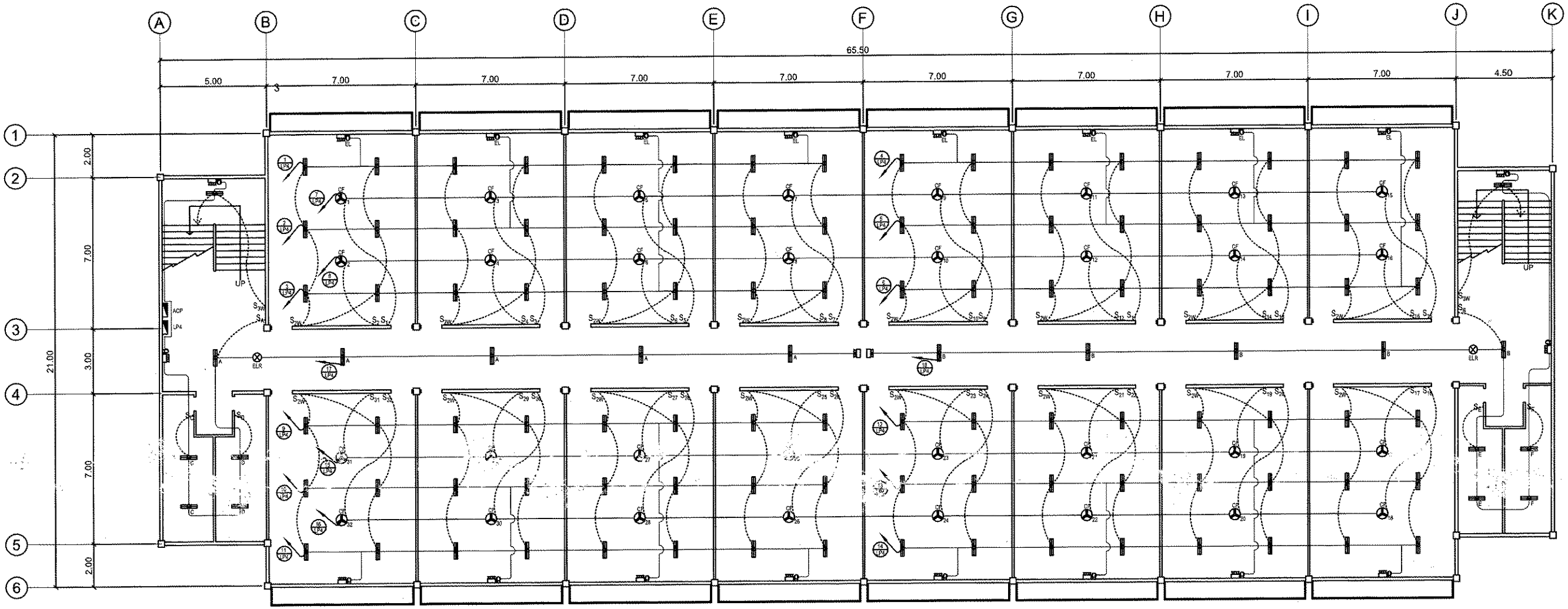
0.20m x 0.25m W/ 3–12mm ø
VERTICAL BARS W/ 10mm ø TIES @
2–50mm, 4–75mm, 6–100mm, REST @
200mm O.C.



SCHEDULE OF DOORS AND WINDOWS
SCALE: 1:40 MTS.

DETAILS OF STIFFENER COLUMN
SCALE: 1:10 MTS.

PREPARED BY:						
J. D. ESCANO PPU OVPPD						
END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY / SHT NO:
M. MACALALAD DEAN BACOOR CAMPUS	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR VPPD CVSU	G. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	PROPOSED PARTITION WALL @ 4TH FLOOR OF CVSU BACOOR CAMPUS ACADEMIC BLDG. CAVITE STATE UNIVERSITY BACOOR CAMPUS	CAVITE STATE UNIVERSITY A – 2

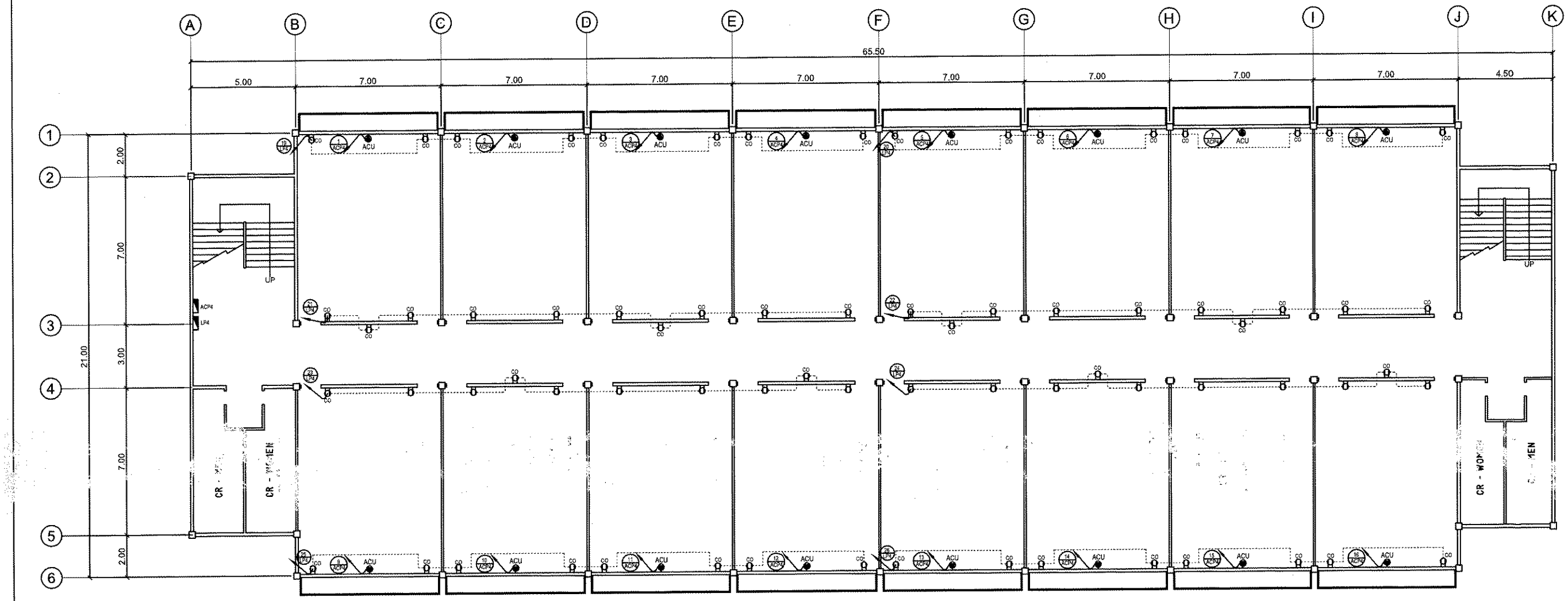


FOURTH FLOOR LIGHTING LAYOUT

E-I

SCALE: 1:200 MTS.

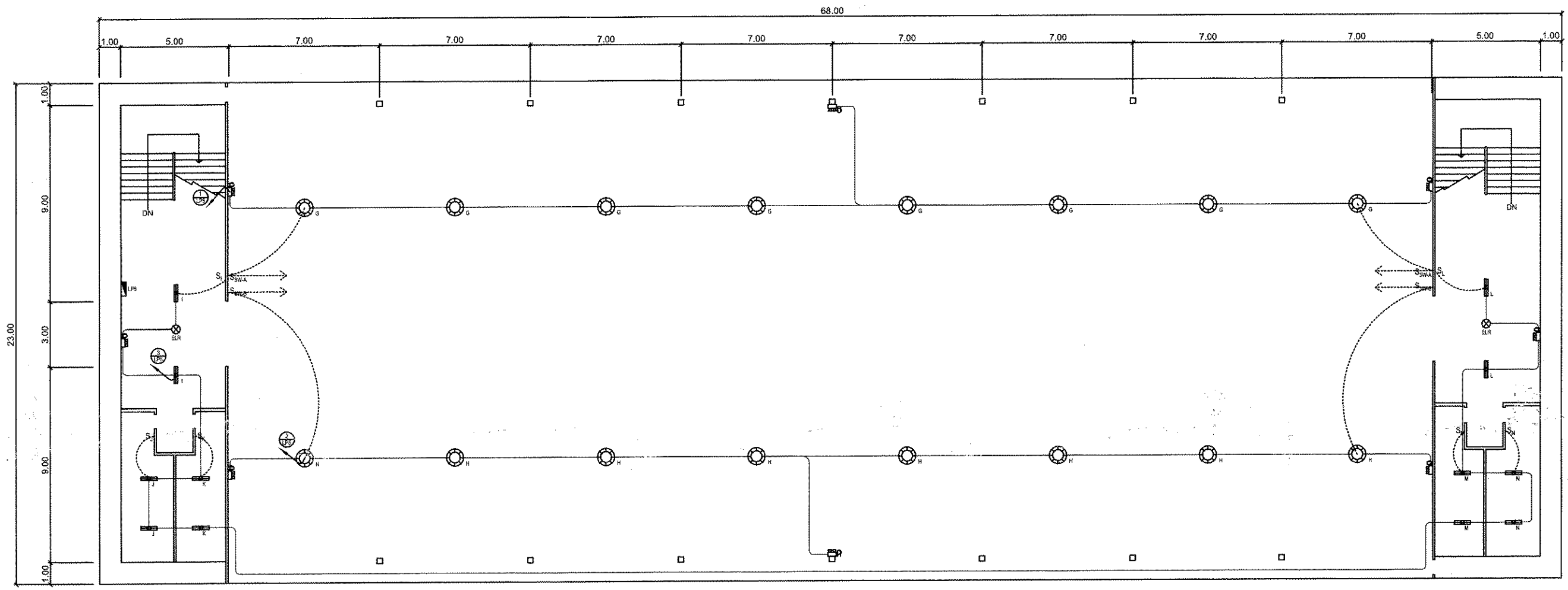
CADD BY: LORDLEY M. ABALLAR, PPU, OVPPD						
PROFESSIONAL ELECTL. ENGR. RONALD P. PEÑA, PPU, OVPPD						
END USER: M. MACALALAD, DEAN, CVSU-BACOOR	ENDORSED BY: O. P. REYES, DIRECTOR, PLANNING OFFICE; M. M. ESCOBAR, VPPD, CVSU		REC. APPROVAL: J. C. A. POLINGA, VPASS, CVSU	APPROVED BY: H. P. [illegible], PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: E - 1



FOURTH FLOOR C.O.&A/C LAYOUT

E-2 SCALE: 1:200 MTS.

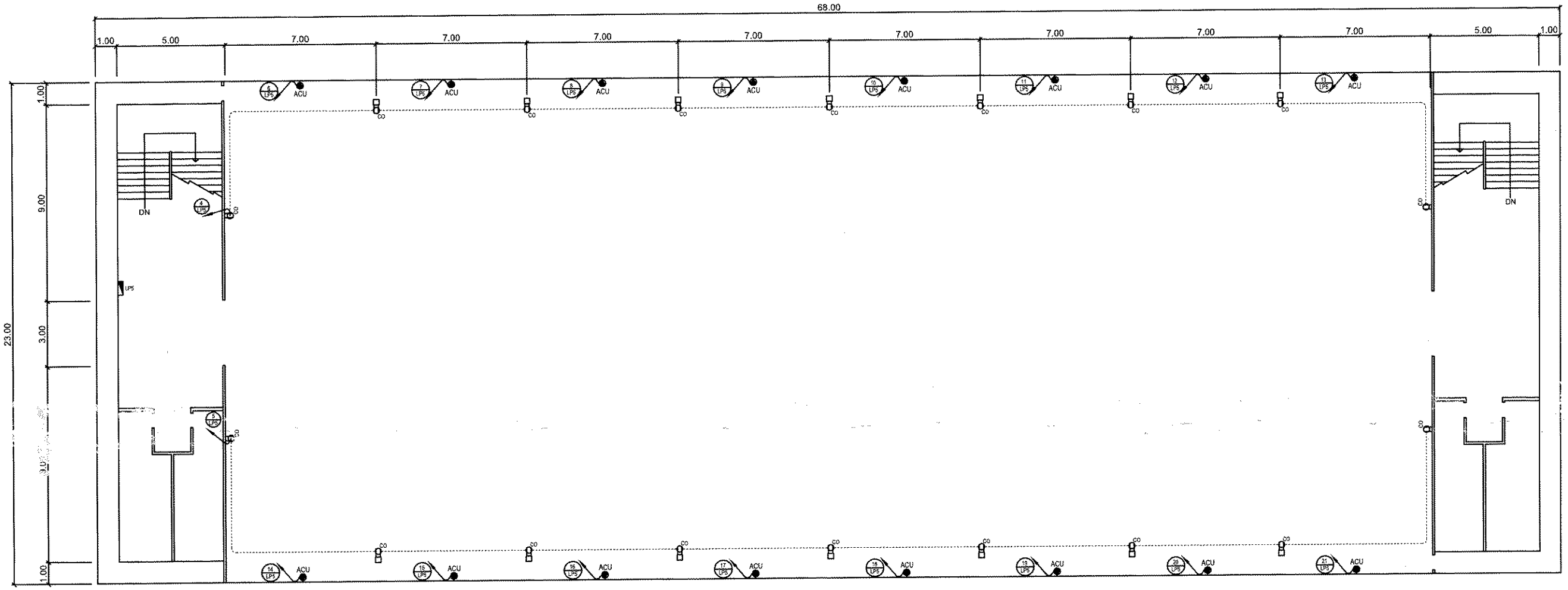
CADD BY: LORDLEY M. ABELLAR PPU OVPPD PROFESSIONAL ELECTL. ENGR. RONALD P. PEÑA PPU OVPPD						
END USER: RE M. MACALALAD DEAN CVSU-BACOOR	ENDORSED BY: O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR VPPD CVSU	REC. APPROVAL: C. A. PULINGA VPASS CVSU	APPROVED BY: H. D. ROBLES PRES CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS CVSU - BACOOR CAMPUS BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: E - 2



ROOF DECK LIGHTING LAYOUT

E 3 — SCALE: 1:200 MTS.

CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD PROFESSIONAL ELECTL. ENGR. RONALD P. PEÑA, PPU, OVPPD						
END USER: M. MACALALAD, DEAN, CVSU-BACOOR	ENDORSED BY: O. B. DELOS REYES, DIRECTOR, PLANNING OFFICE; M. M. ESCOBAR, VPPD, CVSU		REC. APPROVAL: C. A. POLINGA, VPASS, CVSU	APPROVED BY: H. D. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: E - 3

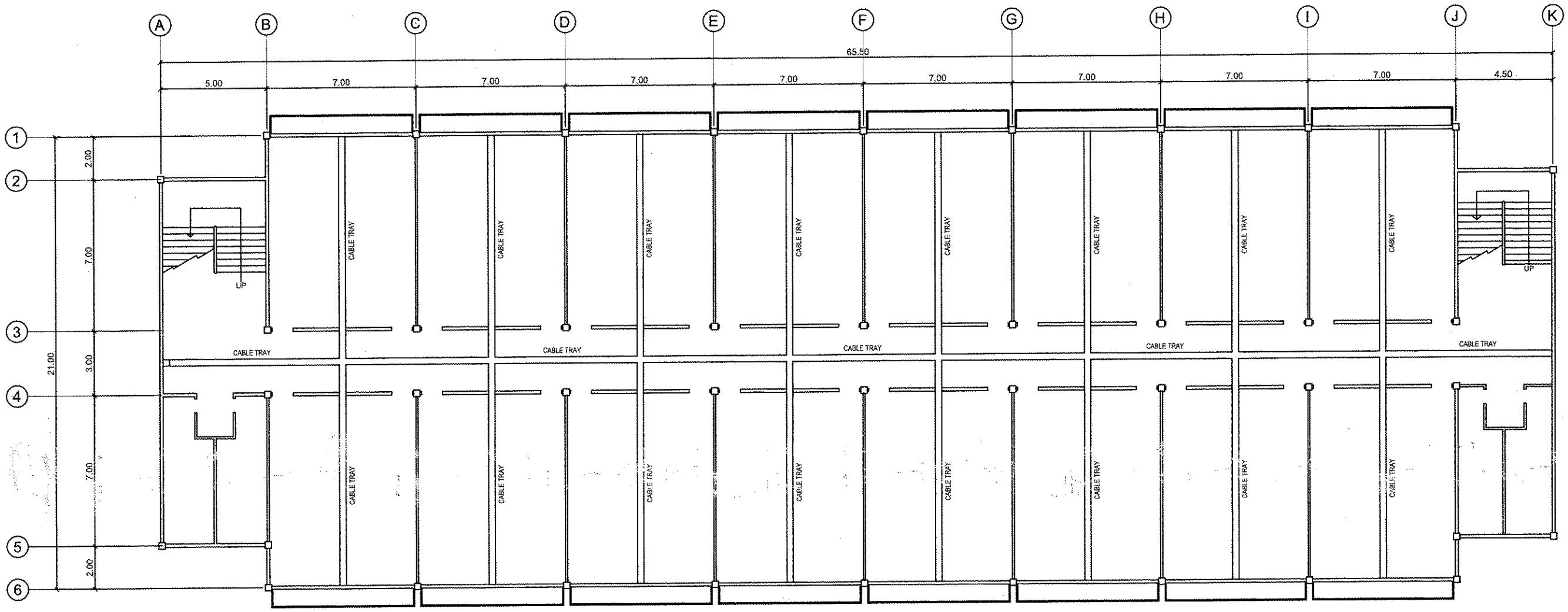


ROOF DECK C.O.&A/C LAYOUT

E | 4 | 1

SCALE: 1:200 MTS.

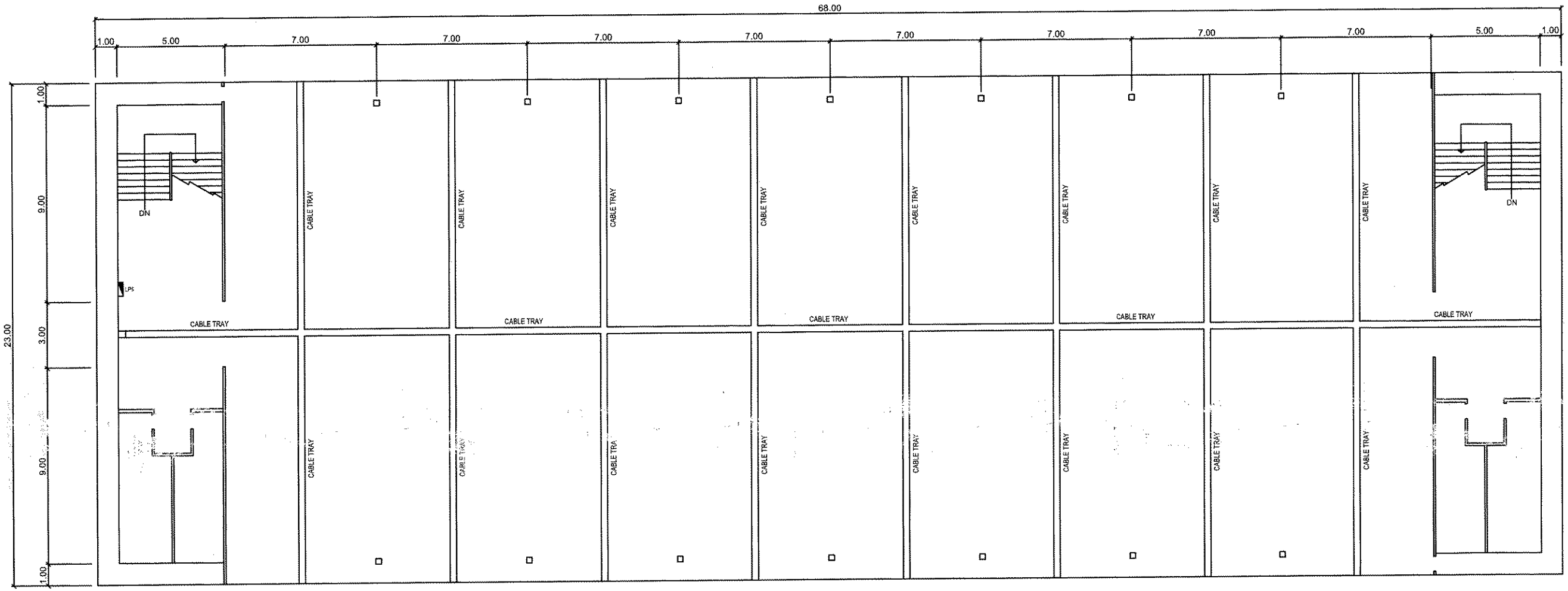
CADD BY: LORDLEY M. ABELLAR, PPU, C/PPD PROFESSIONAL ELECTL. ENGR. RONALD T. PEÑA, PPU, OVPPD						
END USER: M. M. CALALAD, DEAN, CVSU-BACOOR	ENDORSED BY: O. B. DELOS REYES, DIRECTOR, PLANNING OFFICE M. M. ESCOBAR, VPPD, CVSU	REC. APPROVAL: J. C. A. PEÑINGA, VPASS, CVSU	APPROVED BY: H. D. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: E - 4



FOURTH FLOOR CABLE TRAY LAYOUT

I / E 5 SCALE: 1:200 MTS.

CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD PROFESSIONAL ELECTL. ENGR. RONALD P. PEÑA, PPU, OVPPD						
END USER: M. MACALALAD, DEAN, CVSU-BACOOR	ENDORSED BY: O. B. DELOS REYES, DIRECTOR, PLANNING OFFICE M. M. ESCOBAR, VPPD, CVSU	REC. APPROVAL: C. A. POLINGA, VPASS, CVSU	APPROVED BY: H. D. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: E - 5



ROOF DECK CABLE TRAY LAYOUT

I / E 6 SCALE: 1:200 MTS.

CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD PROFESSIONAL ELECTL. ENGR. RONALD P. PEÑA, PPU, OVPPD						
END USER: M. MACALALAD, DEAN, CVSU-BACOOR	ENDORSED BY: O. B. DELOS REYES, DIRECTOR, PLANNING OFFICE; M. M. ESCOBAR, VPPD, CVSU		REC. APPROVAL: J. C. A. POLINGA, VPASS, CVSU	APPROVED BY: H. C. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: E - 6

SCHEDULE OF LOADS

PANEL: MDP | **CABLE: 2 sets 2 - 250 SQMM THHN + 1 - 38.0 SQMM THHN** | **MAIN: 800AT, 800AF, 2P, 230V, 65kAIC, CB**
PHASE: 1 | **CONDUIT: RSC, 2 - 100 MM DIA.** | **ENCLOSURE : NEMA 1**
VOLTS: 230 | **MOUNTING: SURFACE**

CKT NO.	PANEL CODE	PANEL DESCRIPTION	LOAD IN			CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code
			WATTS	VOLT	AMP	CIRCUIT BREAKER RATING	SQ. MM THHN	SQ. MM THHN(G)		
1	LPP4	LIGHTING AND POWER PANEL 4	34460	230	149.83	125AT, 2P,10 kAIC	2 - 38.0 +	G 8.0	32	1R,1BK,G
2	ACPP4	AIR CONDITIONER AND POWER PANEL 4	47744	230	368.00	350AT, 2P,35 kAIC	2 -200 +	G 14.0	80	1R,1BK,G
3	LPP5	LIGHTING AND POWER PANEL 5	57184	230	409.04	400AT, 2P,35 kAIC	2 - 200 +	G 14.0	80	1R,1BK,G
4		SPACE								
		TOTAL	139388	230	926.87	800AT, 2P,65 kAIC	2 -2 - 200 +	G 38.0	2 - 100	1R,1BK,G

FEEDER and CURRENT PROTECTION COMPUTATION:

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

I_{FL} = [926.87 + 25% x Im] DF = 741.50 Amperes
use: 2 sets 2 - 250 SQMM THHN + 1 -38.0 SQMM THHN IN 2 - 100 MM DIA. RSC

ICB = [926.87 + 250% x Im] DF = 741.50 Amperes
use: 800AT, 800AF, 2P, 230V, 65kAIC, CB

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.

PREPARED BY: **RONALD P. PENA**
Professional Electrical Engineer
PRC # 3857
Expiry: April 1, 2025
PTR # CAV 5504164 B
Date: Jan. 03, 2022
Place: Indang, Cavite
TIN # 102-441-998

PANEL: LP4 | **CABLE: 2 - 38.0 SQ. MM THHN + G 8.0 SQ MM THHN** | **MAIN: 125AT, 225AF, 2P, 230V, 18 kAIC,MCCB**
PHASE: 1 | **CONDUIT: RSC, 32 MM DIA.** | **ENCLOSURE : NEMA 1**
VOLTS: 230 | **MOUNTING: SURFACE**

CKT NO.	NO. OF OUTLETS	PANEL DESCRIPTION	LOAD IN			CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code
			WATTS	VOLT	AMP	CIRCUIT BREAKER RATING	SQ. MM THHN	SQ. MM THHN(G)		
1	10	8-L.O. + 2-E.L.	1160	230	5.04	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
2	9	8-L.O. + 1-E.L.	980	230	4.26	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
3	9	8-L.O. + 1-E.L.	980	230	4.26	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
4	9	8-L.O. + 1-E.L.	980	230	4.26	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
5	10	8-L.O. + 2-E.L.	1160	230	5.04	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
6	9	8-L.O. + 1-E.L.	980	230	4.26	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
7	8	CEILING FAN	1440	230	6.26	20AT, 2P,10 KAIC	2 - 3.5 +	G 2.0	15	1R,1BK,G
8	8	CEILING FAN	1440	230	6.26	20AT, 2P,10 KAIC	2 - 3.5 +	G 2.0	15	1R,1BK,G
9	9	8-L.O. + 1-E.L.	980	230	4.26	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
10	9	8-L.O. + 1-E.L.	980	230	4.26	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
11	10	8-L.O. + 2-E.L.	1160	230	5.04	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
12	9	8-L.O. + 1-E.L.	980	230	4.26	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
13	9	8-L.O. + 1-E.L.	980	230	4.26	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
14	10	8-L.O. + 2-E.L.	980	230	4.26	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
15	8	CEILING FAN	1440	230	6.26	20AT, 2P,10 KAIC	2 - 3.5 +	G 2.0	15	1R,1BK,G
16	8	CEILING FAN	1440	230	6.26	20AT, 2P,10 KAIC	2 - 3.5 +	G 2.0	15	1R,1BK,G
17	14	10-L.O. + 3-E.L. + 1-ELR	1720	230	7.48	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
18	14	10-L.O. + 3-E.L. + 1-ELR	1720	230	7.48	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
19	8	CONVENIENCE OUTLET	1440	230	6.26	20AT, 2P,10 KAIC	2 - 3.5 +	G 2.0	15	1R,1BK,G
20	8	CONVENIENCE OUTLET	1440	230	6.26	20AT, 2P,10 KAIC	2 - 3.5 +	G 2.0	15	1R,1BK,G
21	10	CONVENIENCE OUTLET	1800	230	7.83	20AT, 2P,10 KAIC	2 - 3.5 +	G 2.0	15	1R,1BK,G
22	10	CONVENIENCE OUTLET	1800	230	7.83	20AT, 2P,10 KAIC	2 - 3.5 +	G 2.0	15	1R,1BK,G
23	10	CONVENIENCE OUTLET	1800	230	7.83	20AT, 2P,10 KAIC	2 - 3.5 +	G 2.0	15	1R,1BK,G
24	10	CONVENIENCE OUTLET	1800	230	7.83	20AT, 2P,10 KAIC	2 - 3.5 +	G 2.0	15	1R,1BK,G
25	8	CONVENIENCE OUTLET	1440	230	6.26	20AT, 2P,10 KAIC	2 - 3.5 +	G 2.0	15	1R,1BK,G
26	8	CONVENIENCE OUTLET	1440	230	6.26	20AT, 2P,10 KAIC	2 - 3.5 +	G 2.0	15	1R,1BK,G
27		SPACE								
28		SPACE								
		TOTAL	34460	230	149.83	125AT, 2P,10 kAIC	2 - 38.0 +	G 8.0	32	1R,1BK,G

FEEDER and CURRENT PROTECTION COMPUTATION:

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

I_{FL} = [149.83 + 25% x Im] DF = 119.86 Amperes
use: 2 - 38 SQMM THHN + 1 -8.0 SQMM THHN IN 32 MM DIA. RSC

ICB = [149.83 + 250% x Im] DF = 119.86 Amperes
use: 125AT, 225AF, 2P, 230V, 18kAIC, CB

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.

PREPARED BY: **RONALD P. PENA**
Professional Electrical Engineer
PRC # 3857
Expiry: April 1, 2025
PTR # CAV 5504164 B
Date: Jan. 03, 2022
Place: Indang, Cavite
TIN # 102-441-998

CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD	END USER: M. MACALALAD, DEAN, CVSU - BACOOR	ENDORSED BY: O. P. DELOS REYES, DIRECTOR, PLANNING OFFICE; M. M. ESCOBAR, VPPD, CVSU	REC. APPROVAL: C. A. POLINGA, VPASS, CVSU	APPROVED BY: H. D. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: E - 7
PROFESSIONAL ELECTL. ENGR. RONALD P. PEÑA, PPU, OVPPD							

SCHEDULE OF LOADS

PANEL: ACP4 — **CABLE: 2 - 200.0 SQ. MM THHN + G 14.0 SQ MM THHN** — **MAIN: 350 AT, 400AF, 2P, 230V, 35 kAIC,MCCB**
PHASE: 1 — **CONDUIT: RSC, 80 MM DIA.** — **ENCLOSURE : NEMA 1**
VOLTS: 230 — **MOUNTING: SURFACE**

CKT NO.	NO. OF OUTLETS	PANEL DESCRIPTION	LOAD IN WATTS	LOAD IN VOLT	LOAD IN AMP	CIRCUIT PROTECTION CIRCUIT BREAKER RATING	Size of Conductor SQ. MM THHN	Size of Conductor SQ. MM THHN(G)	Size Of Conduit In MM ø	Color Code
1	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
2	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
3	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
4	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
5	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
6	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
7	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
8	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
9	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
10	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
11	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
12	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
13	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
14	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
15	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
16	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
17		SPARE								
18		SPARE								
		TOTAL	47744	230	368.00	350AT, 2P,35 kAIC	2 -200	+ G 14.0	80	1R,1BK,G

FEEDER and CURRENT PROTECTION COMPUTATION:

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

I_{FL} = [368.00 + 25% x Im] DF = 299.00 *Amperes*
use: 2 - 200.0 SQMM THHN + 1 -14.0 SQMM THHN IN 80 MM DIA. RSC

ICB = [368.00 + 250% x Im] DF = 340.40 *Amperes*
use: 350AT, 400AF, 2P, 230V, 35kAIC, CB

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.

PREPARED BY: **RONALD P. PENA**
Professional Electrical Engineer
PRC # 3857
Expiry: April 1, 2025
PTR # CAV 5504164 B
Date: Jan. 03, 2022
Place: Indang, Cavite
TIN # 102-441-998

PANEL: LP5 — **CABLE: 2 - 200.0 SQ. MM THHN + G 14.0 SQ MM THHN** — **MAIN: 400AT, 400AF, 2P, 230V, 35 kAIC,MCCB**
PHASE: 1 — **CONDUIT: RSC, 80 MM DIA.** — **ENCLOSURE : NEMA 1**
VOLTS: 230 — **MOUNTING: SURFACE**

CKT NO.	NO. OF OUTLETS	PANEL DESCRIPTION	LOAD IN WATTS	LOAD IN VOLT	LOAD IN AMP	CIRCUIT PROTECTION CIRCUIT BREAKER RATING	Size of Conductor SQ. MM THHN	Size of Conductor SQ. MM THHN(G)	Size Of Conduit In MM ø	Color Code
1	11	8-L.O. + 3-E.L.	2140	230	9.30	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
2	11	8-L.O. + 3-E.L.	2140	230	9.30	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
3	9	12-L.O. + 2-E.L. + 2-ELR	1920	230	8.35	20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK,G
4	9	CONVENIENCE OUTLET	1620	230	7.04	20AT, 2P,10 KAIC	2 - 3.5	+ G 2.0	15	1R,1BK,G
5	9	CONVENIENCE OUTLET	1620	230	7.04	20AT, 2P,10 KAIC	2 - 3.5	+ G 2.0	15	1R,1BK,G
6	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
7	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
8	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
9	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
10	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
11	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
12	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
13	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
14	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
15	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
16	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
17	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
18	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
19	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
20	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
21	1	ACU (4.0 HP)	2984	230	23.00	50AT, 2P,10 KAIC	2 - 8.0	+ G 3.5	20	1R,1BK,G
22		SPACE								
		TOTAL	57184	230	409.04	400AT, 2P,35 kAIC	2 - 200	+ G 14.0	80	1R,1BK,G

FEEDER and CURRENT PROTECTION COMPUTATION:

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

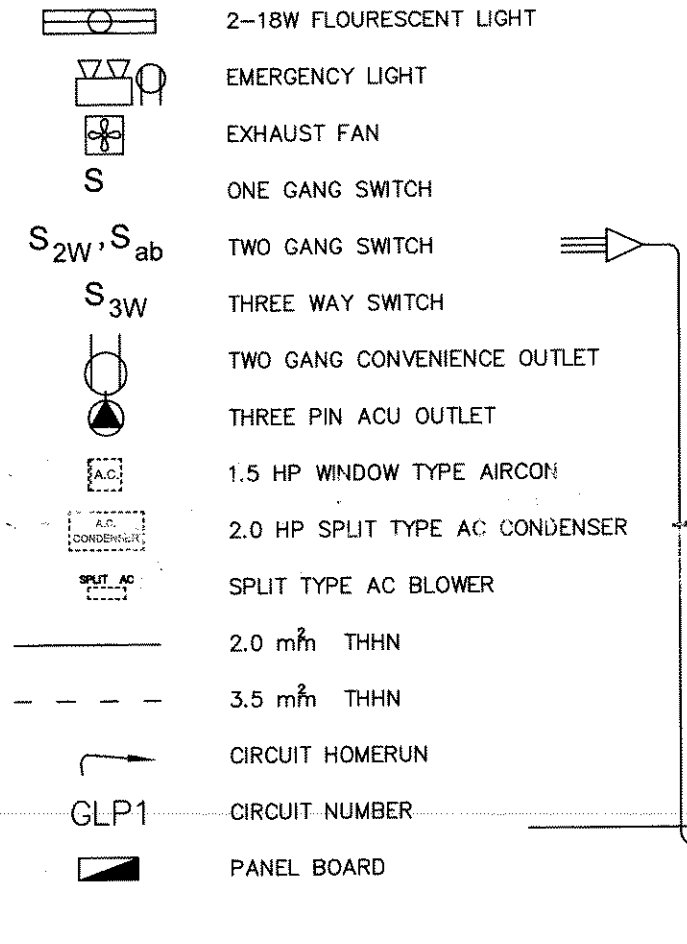
I_{FL} = [409.04 + 25% x Im] DF = 331.83 *Amperes*
use: 2 - 200.0 SQMM THHN + 1 -14 SQMM THHN IN 80 MM DIA. RSC

ICB = [409.04 + 250% x Im] DF = 373.23 *Amperes*
use: 400AT, 400AF, 2P, 230V, 35kAIC, CB

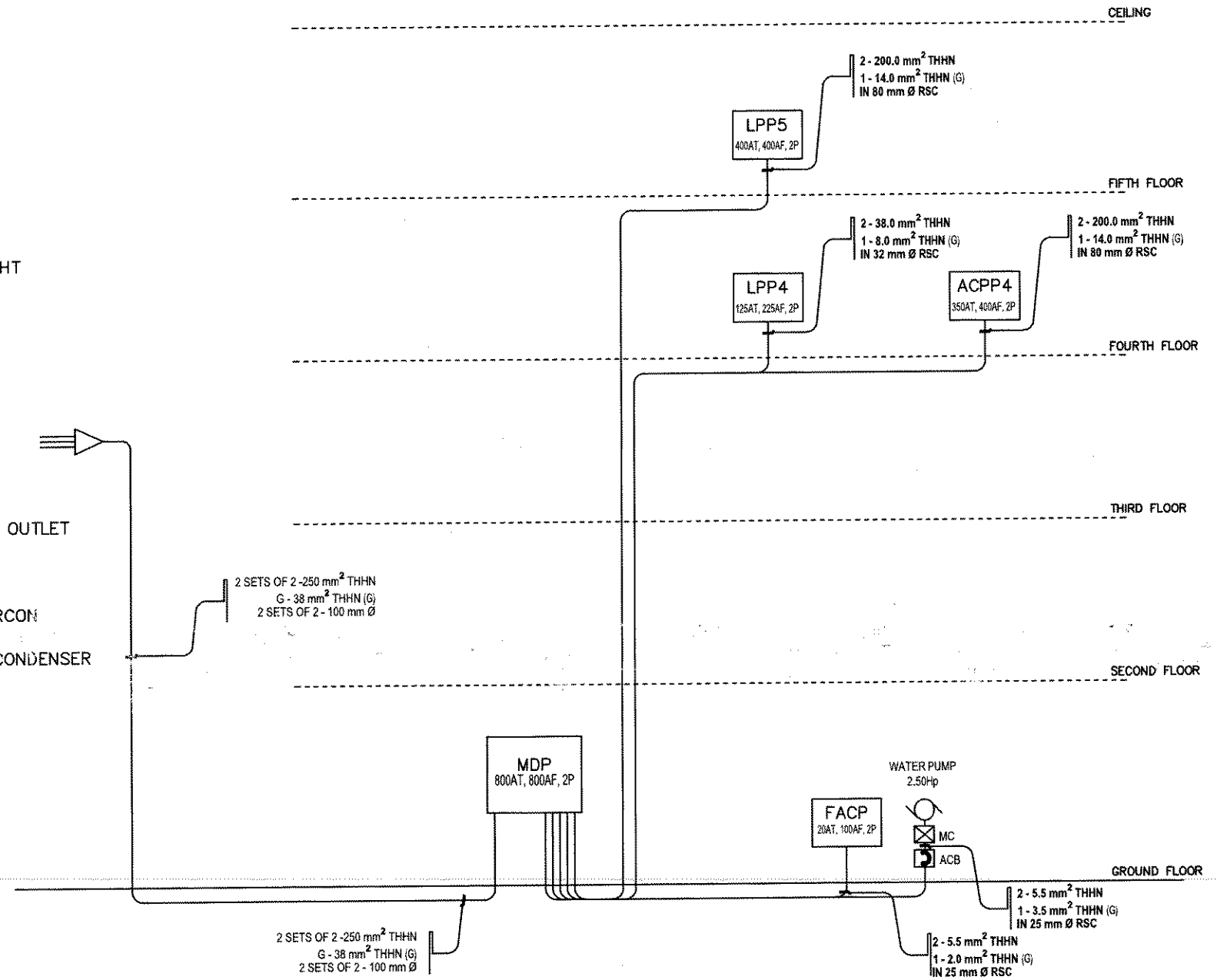
This Electrical Design is good only for the above connected loads.
Any additional electrical load connection in the future is prohibited,
Except redesign of electrical load system will be done.

PREPARED BY: **RONALD P. PENA**
Professional Electrical Engineer
PRC # 3857
Expiry: April 1, 2025
PTR # CAV 5504164 B
Date: Jan. 03, 2022
Place: Indang, Cavite
TIN # 102-441-998

CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD	ENDORSED BY: O.B. DELOS REYES, DIRECTOR, PLANNING OFFICE	M. M. ESCOBAR, VPPD, CVSU	REC. APPROVAL: S. A. PULINGA, VPASS, CVSU	APPROVED BY: H. D. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: E - 8
PROFESSIONAL ELECTL. ENGR.: RONALD P. PENA, PPU, OVPPD							
END USER: M. MACALALAD, DEAN, CVSU - BACOOR							

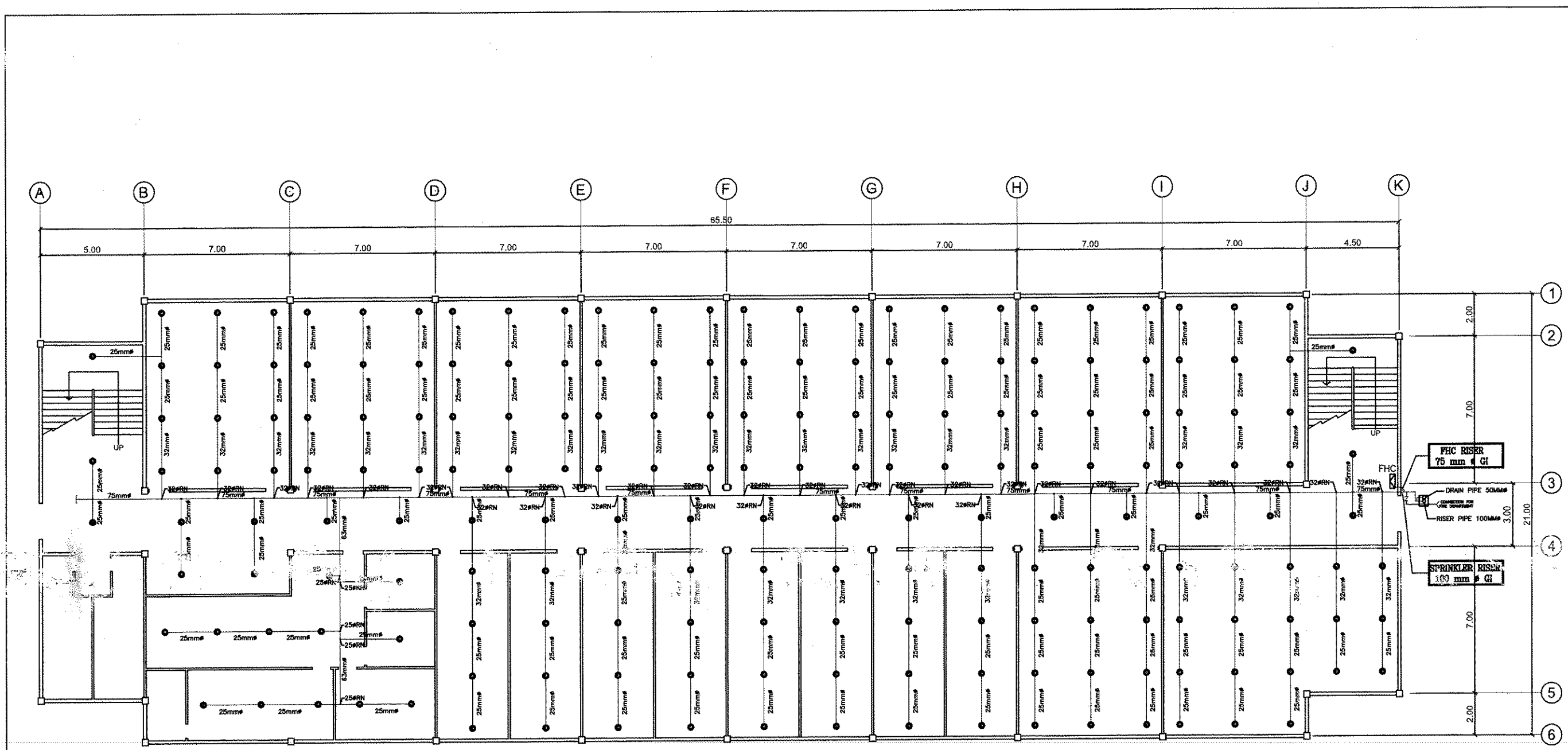


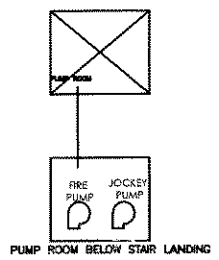
1 / E 7 LEGEND



2 / E 7 SINGLE LINE DIAGRAM

CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD PROFESSIONAL ELECTL. ENGR.: RONALD P. PEÑA, PPU, OVPPD						
END USER: MA. CALALAD, DEAN, CVSU - BACOOR	ENDORSED BY: O. S. DELOS REYES, DIRECTOR, PLANNING OFFICE; M. M. ESCOBAR, VPPD, CVSU		REC. APPROVAL: C. A. [illegible]LINGA, VPASS, CVSU	APPROVED BY: H. V. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: E - 9

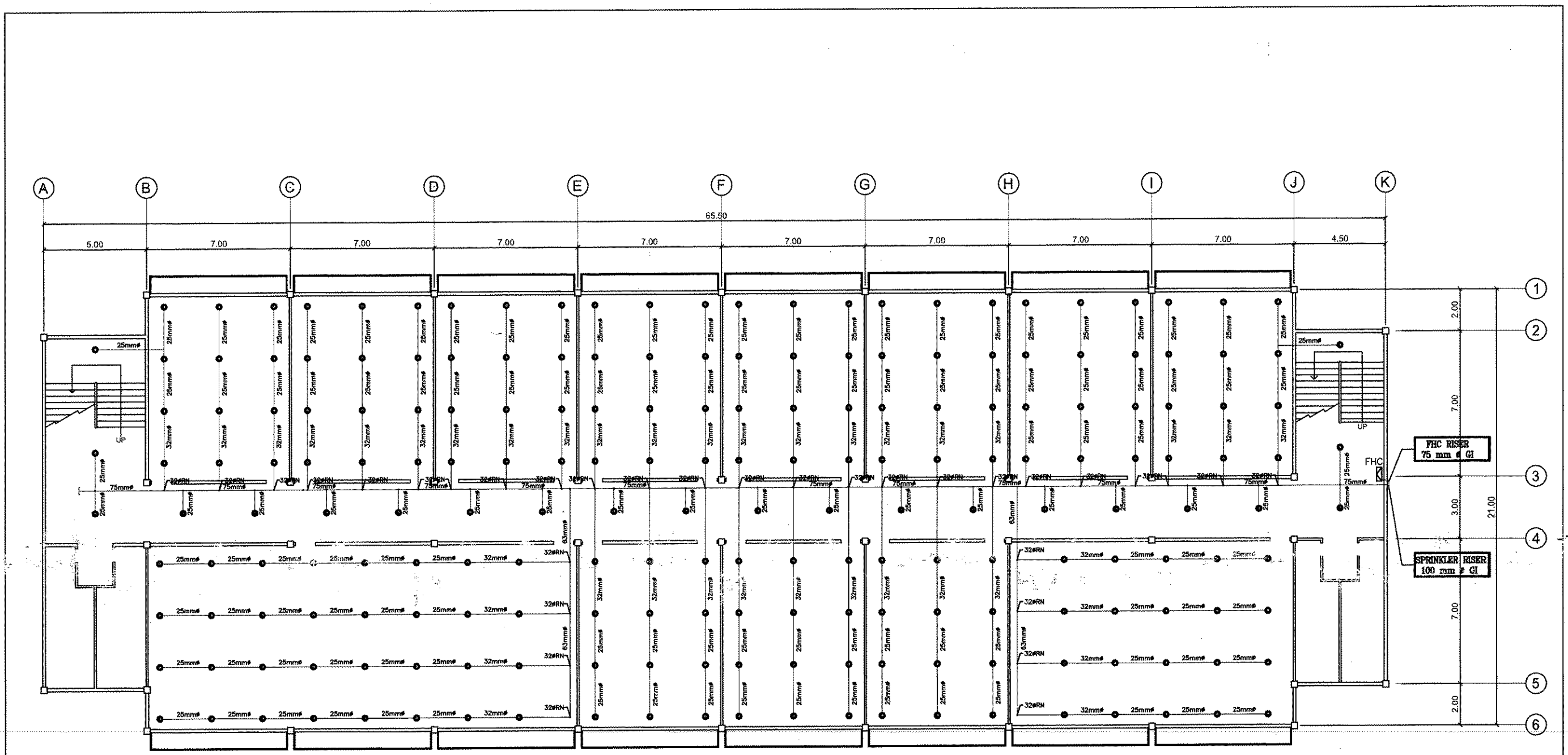




GROUND FLOOR SPRINKLER PLAN

1 / FP 1 SCALE: 1:200 MTS.

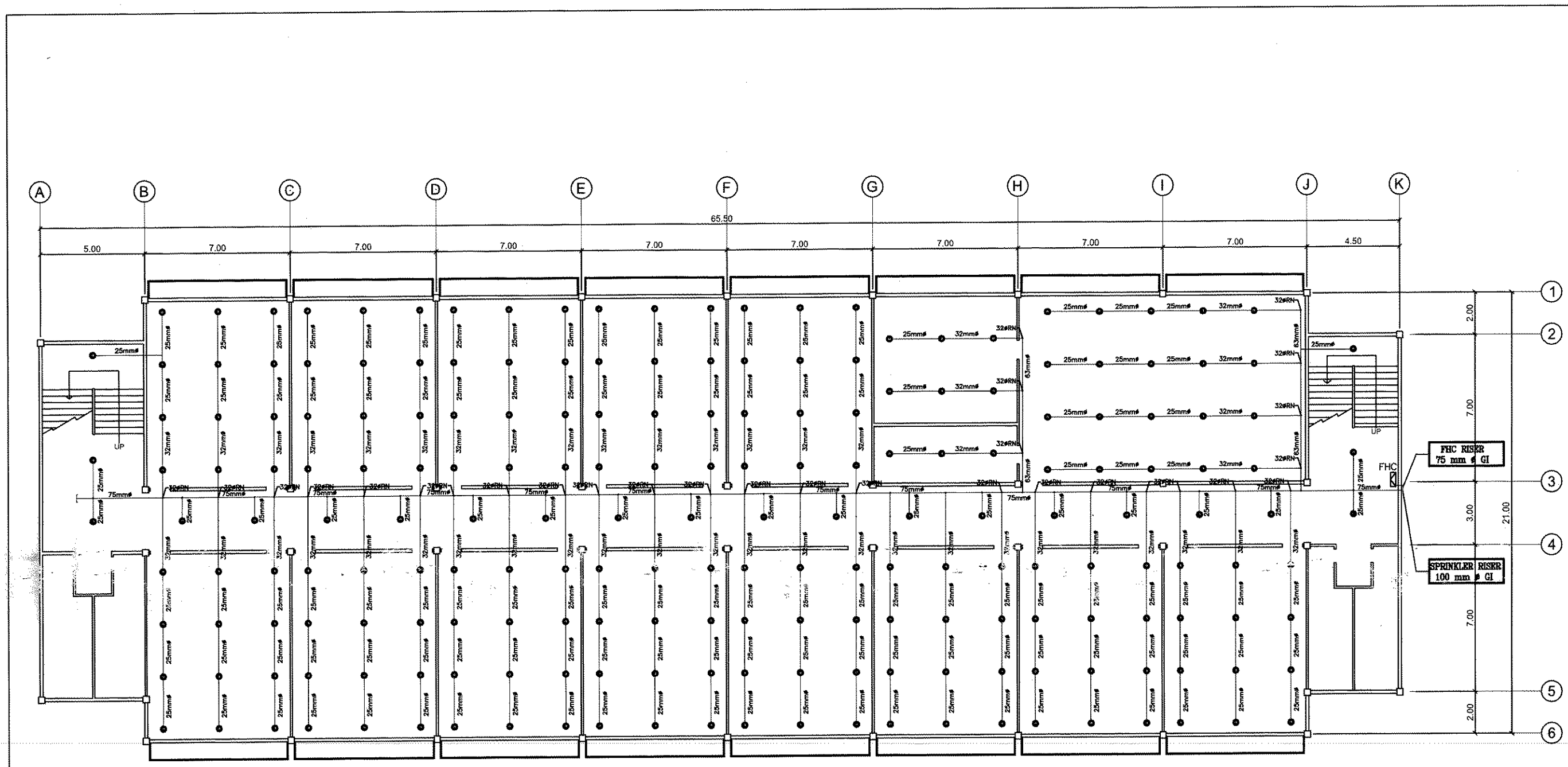
CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD PROFESSIONAL ELECTL. ENGR. RONALD [illegible]NA, PPU, OVPPD						
END USER: M. [illegible]ALALAD, DEAN, CVSU-BACOOR	ENDORSED BY: O. B. [illegible]ELOS REYES, DIRECTOR, PLANNING OFFICE	M. M. ESCOBAR, VPPD, CVSU	REC. APPROVAL: C. A. [illegible]OLINGA, VPASS, CVSU	APPROVED BY: H. D. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: FP - 1



SECOND FLOOR SPRINKLER PLAN

1 / FP 2 SCALE: 1:200 MTS.

CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD PROFESSIONAL ELECTL. ENGR. RONALD P. PEÑA, PPU, OVPPD						
END USER: M. MACALALAD, DEAN, CVSU-BACOOR	ENDORSED BY: O. B. DELOS REYES, DIRECTOR, PLANNING OFFICE; M. M. ESCOBAR, VPPD, CVSU		REC. APPROVAL: C. A. PULINGA, VPASS, CVSU	APPROVED BY: H. D. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: FP - 2

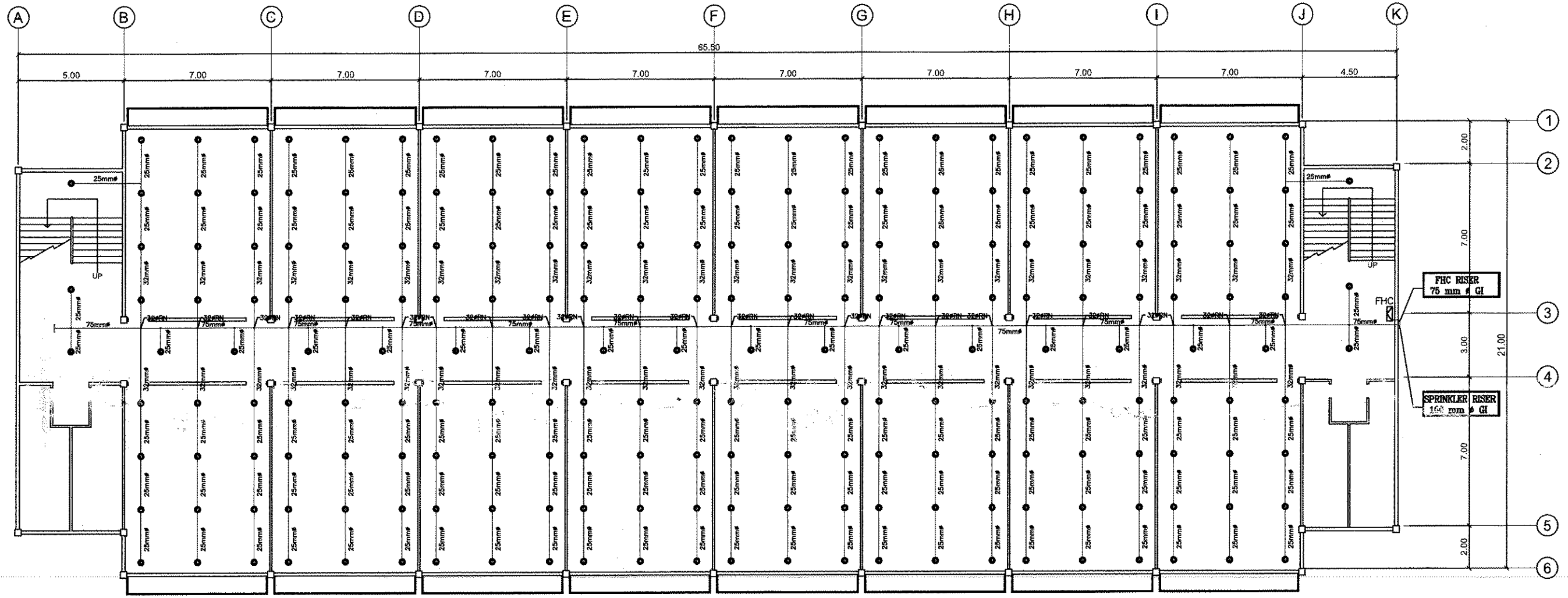


THIRD FLOOR SPRINKLER PLAN

1 / FP 3

SCALE: 1:200 MTS.

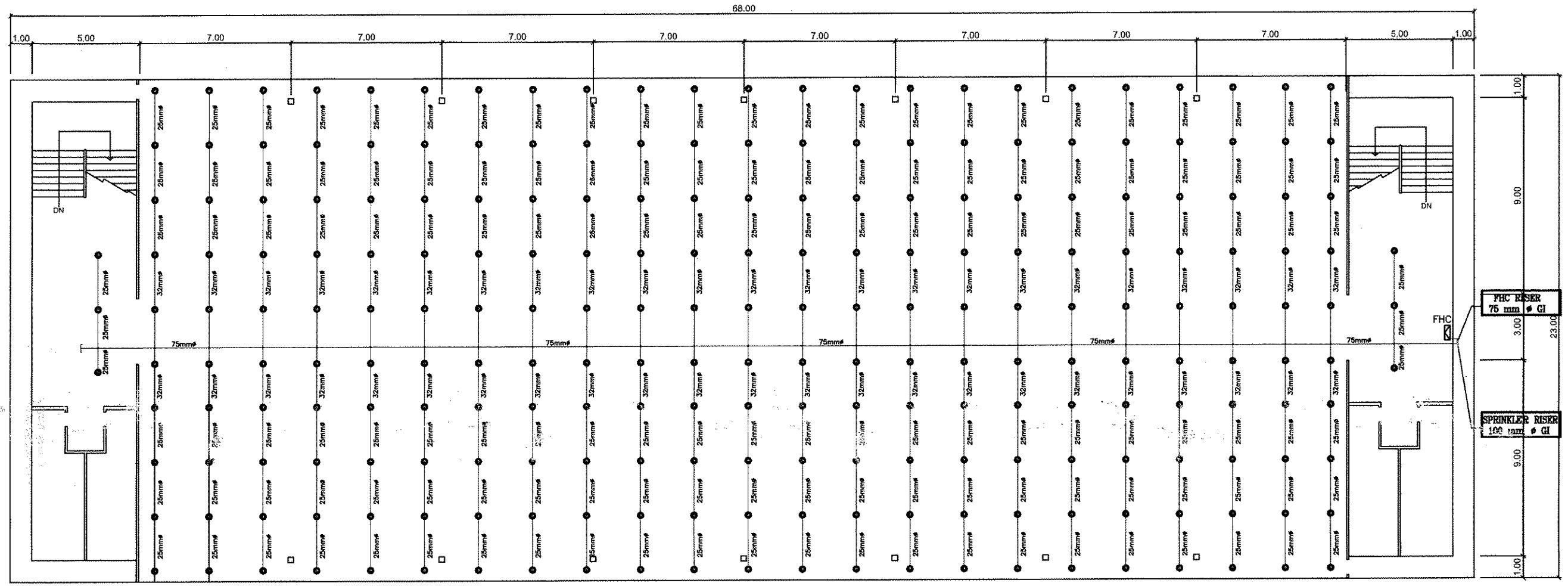
CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD						
PROFESSIONAL ELECTL. ENGR. RONALD P. PEÑA, PPU, OVPPD						
END USER: M. MACALALAD, DEAN, CVSU-BACOOR	ENDORSED BY: O. B. DELOS REYES, DIRECTOR, PLANNING OFFICE	M. M. ESCOBAR, VPPD, CVSU	REC. APPROVAL: C. A. POLINGA, VPASS, CVSU	APPROVED BY: H. D. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: FP - 3



FOURTH FLOOR SPRINKLER PLAN

1 / FP 4 SCALE: 1:200 MTS.

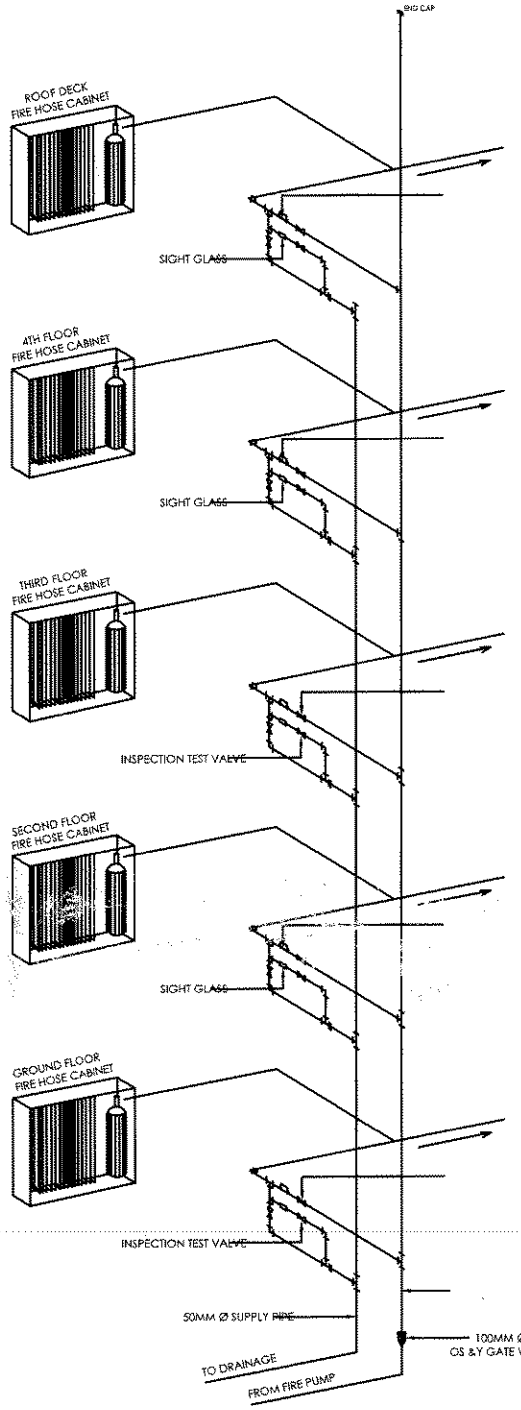
CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD PROFESSIONAL ELECTL. ENGR. RONALD M. PEÑA, PPU, OVPPD						
END USER: M. MACALALAD, DEAN, CVSU-BACOOR	ENDORSED BY: O. B. DELOS REYES, DIRECTOR, PLANNING OFFICE; M. M. ESCOBAR, VPPD, CVSU	REC. APPROVAL: C. A. POLINGA, VPASS, CVSU	APPROVED BY: H. D. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: FP - 4



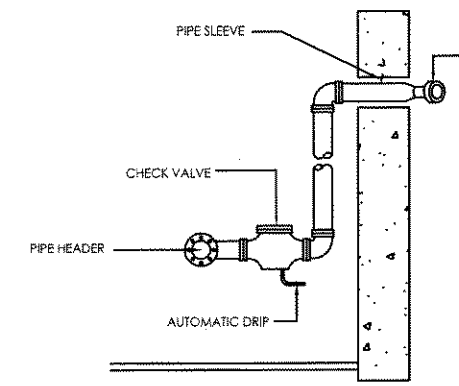
ROOF DECK SPRINKLER PLAN

1 / FP 5 SCALE: 1:200 MTS.

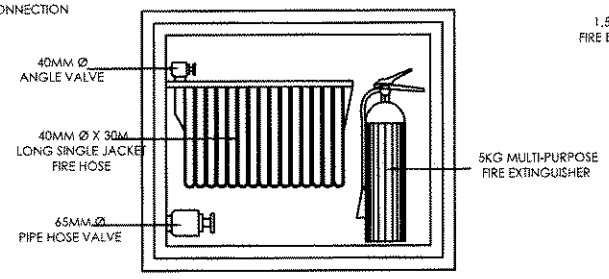
CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD PROFESSIONAL ELECTL. ENGR. RONALD C. PEÑA, PPU, OVPPD						
END USER: M. MACALALAD, DEAN, CVSU-BACOOR	ENDORSED BY: O. P. DELOS REYES, DIRECTOR, PLANNING OFFICE M. M. ESCOBAR, VPPD, CVSU	REC. APPROVAL: C. A. POLINGA, VPASS, CVSU	APPROVED BY: H. D. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: FP - 5



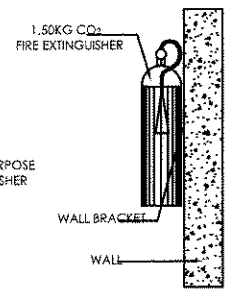
FIRE HOSE CABINET RISER DIAGRAM



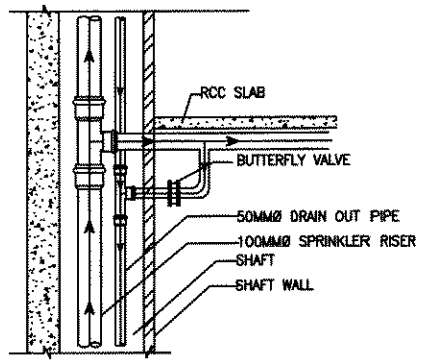
DRY STAND PIPE DETAIL



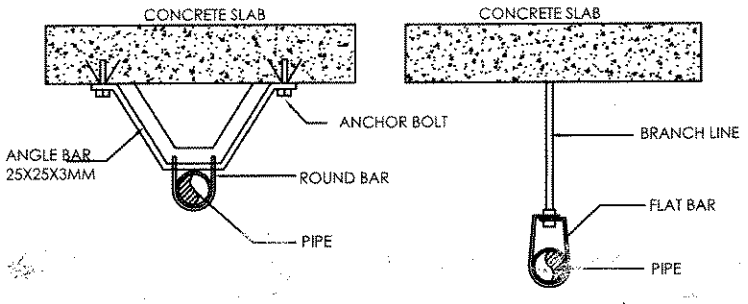
FIRE HOSE CABINET DETAIL



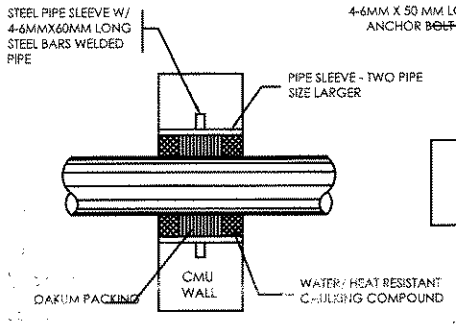
WALL MOUNTED
FIRE EXTINGUISHER DETAIL



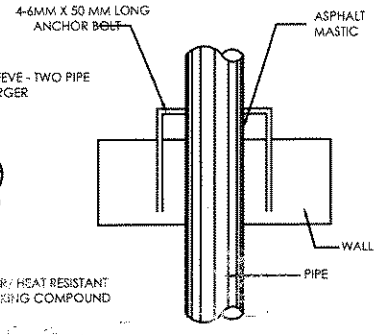
DRAIN OUT PIPE SECTION



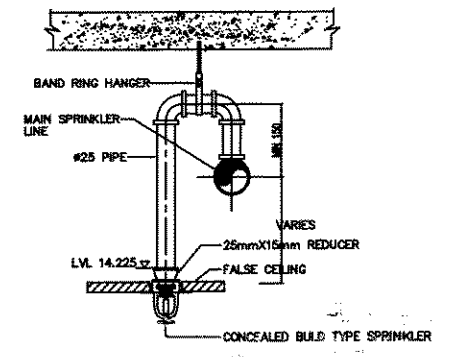
TWO-WAY BRACE/ PIPE HANGER



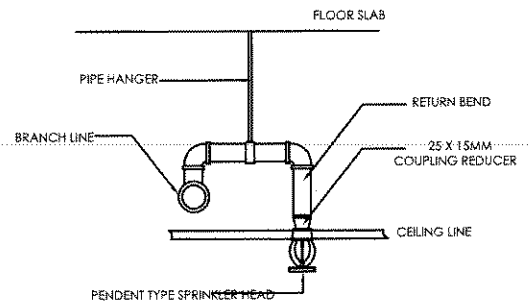
PIPE SLEEVE



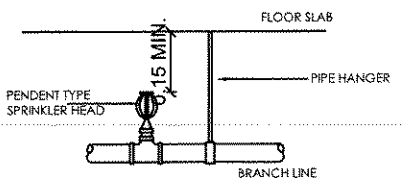
FOUR WAY BRACE



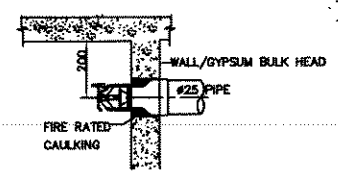
INSTALLATION DETAIL FOR
PENDENT SPRINKLER (CONCEALED)



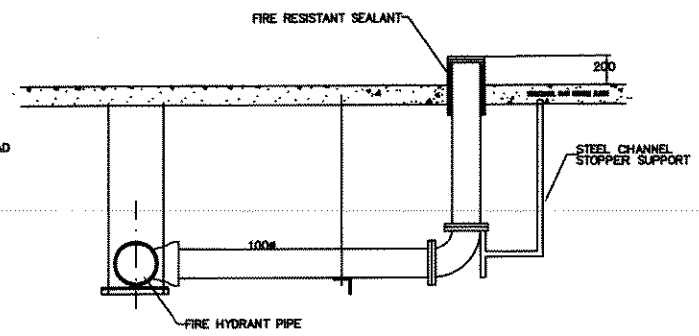
PENDENT SPRINKLER HEAD



UPRIGHT SPRINKLER HEAD



DETAIL FOR HORIZONTAL
SIDEWALL SPRINKLER



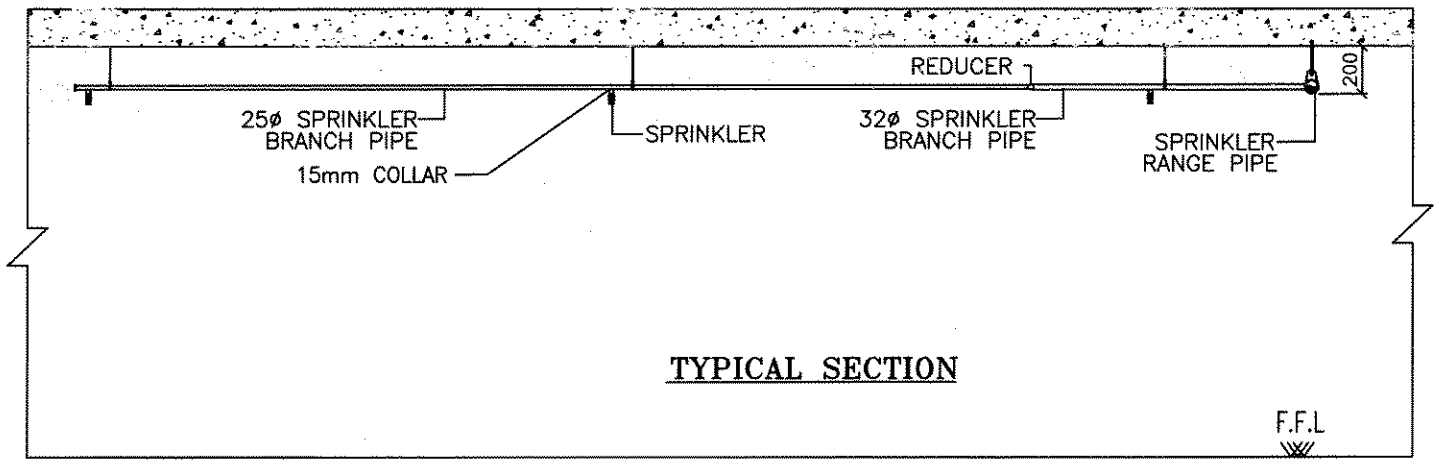
FIRE HYDRANT

CADD BY:	LORDLEY M. ABELLAR PPU OVPPD
PROFESSIONAL ELECTRICAL ENGR.	RONALD PEÑA PPU OVPPD

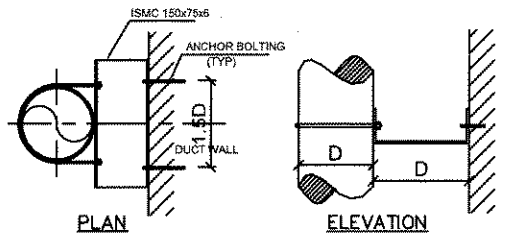
FIRE PROTECTION DETAILS

1 / FP 6 SCALE NTS.

END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
M. MACALALAD DEAN CVSU - BACOOR	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR VPPD CVSU	[illegible] POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	IMPROVEMENT OF BACOOR CAMPUS CVSU - BACOOR CAMPUS BACOOR CITY	CAVITE STATE UNIVERSITY	FP - 6

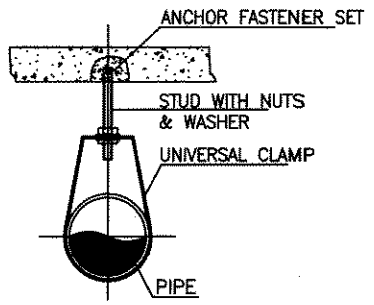


TYPICAL SECTION



SUPPORTING DETAIL FOR RISERS

D—NOMINAL BORE



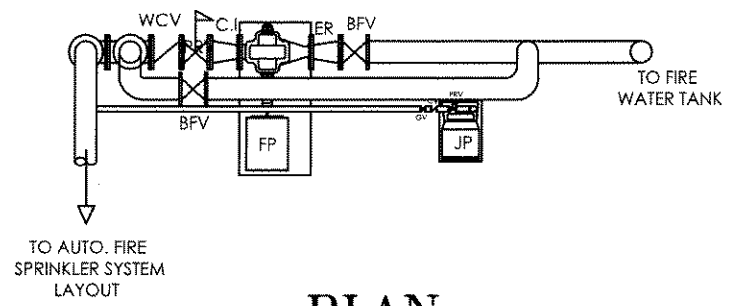
STUD ROD SIZES

PIPE SIZE	DIA. OF ROD
25 MMø	10 MM.
32 MMø	10 MM.
40 MMø	10 MM.
50 MMø	10 MM.
65 MMø	10 MM.
80 MMø	10 MM.
100 MMø	10 MM.
150 MMø	12.7 MM.

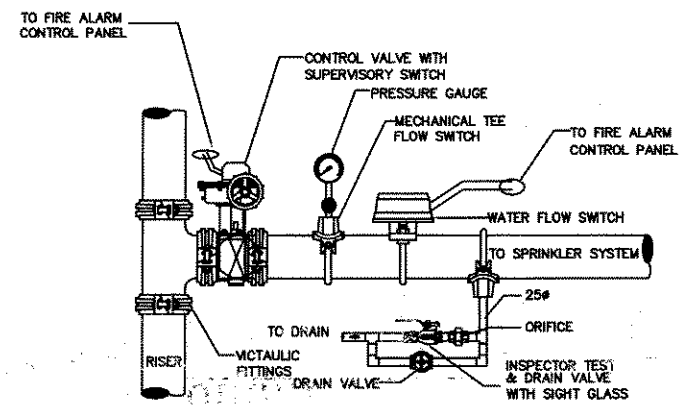
PIPE SUPPORT DETAILS

PIPE SIZE	DISTANCE BETWEEN HANGERS
25 MMø	3.0 M.
32 MMø	3.0 M.
40 MMø	3.0 M.
50 MMø	3.0 M.
65 MMø	3.0 M.
80 MMø	3.0 M.
100 MMø	4.0 M.
150 MMø	4.0 M.

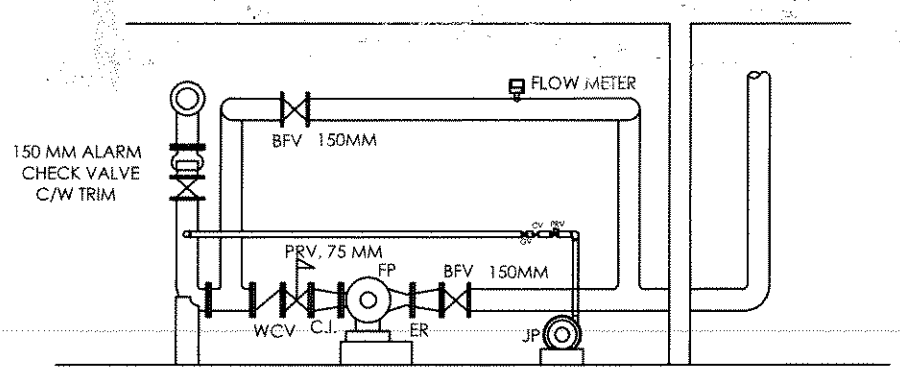
TYP. PIPE SUPPORT DETAILS



PLAN



ZONE CONTROL VALVE



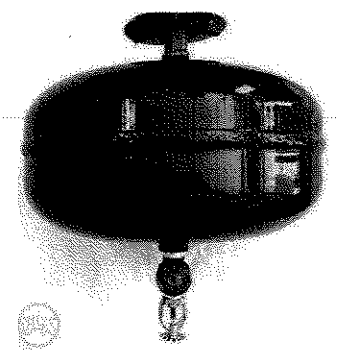
ELEVATION

FIRE/JOCKEY PUMP PIPING LAYOUT

SCALE N.T.S

EQUIPMENT

DESIGNATION	QTY.	CAPACITY (GPM)	TYPE	RPM	WORKING PRESSURE	MOTOR RATING					REMARKS
						KW (HP)	EFF.	VOLTS	PHASE	HERTZ	
FIRE PUMP	1	500	HORIZONTAL SPLIT CASE	3650	120 PSI.	45 (60HP)	65 %	220	3	60	ELECTRIC DRIVEN FIRE PUMP
JOCKEY PUMP	1	20	HORIZONTAL MULTI STAGE	3500	125 PSI.	3.73 (5 HP)	65 %	220	3	60	ELECTRIC DRIVEN JOCKEY PUMP



Ceiling Type HCFC 123
Automatic Fire Extinguisher

NOTES:

ALL PIPES SHALL HAVE A STRENGHT EQUIVALENT TO SCHEDULE 40

ALL PIPES SHALL BE PAINTED WITH EPOXY PRIMER PAINT AND WITH A RED PAINT AS FINAL COATING.

ALL CONNECTIONS SHALL BE LEAK PROOF AND SHALL BE ABLE TO RESIST HIGH PRESSURE.

USE PENDENT TYPE SPRINKLER HEADS FOR PORTIONS WITH CEILINGS.

USE SIDE WALL TYPE SPRINKLER HEADS IN STAIRCASES.

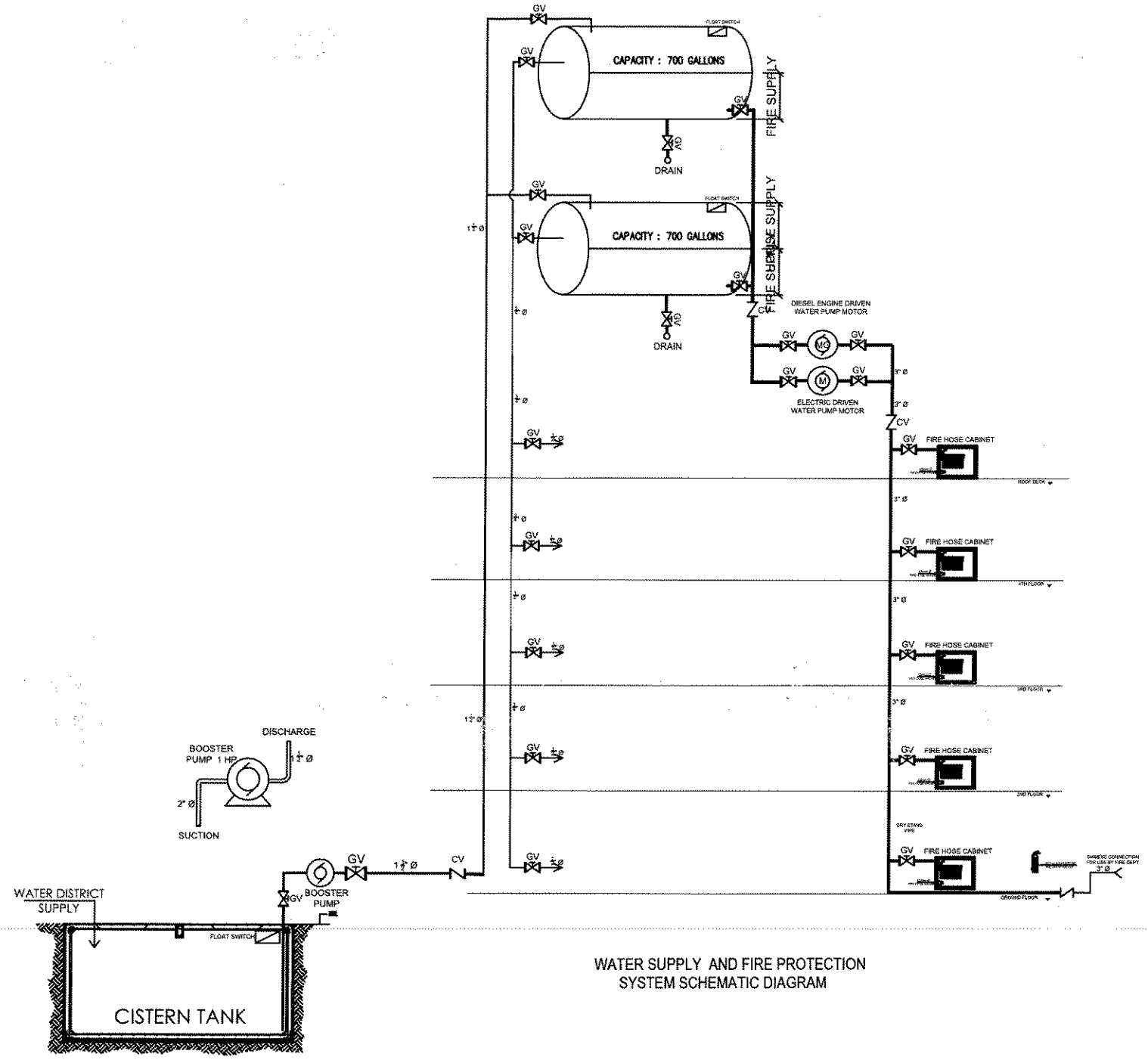
SPRINKLER SYSTEM WILL BE TAPPED TO EXISTING RISER AND DRAIN PIPES

CADD BY:
LORDLEY M. ABELLAR
PPU OVPPD

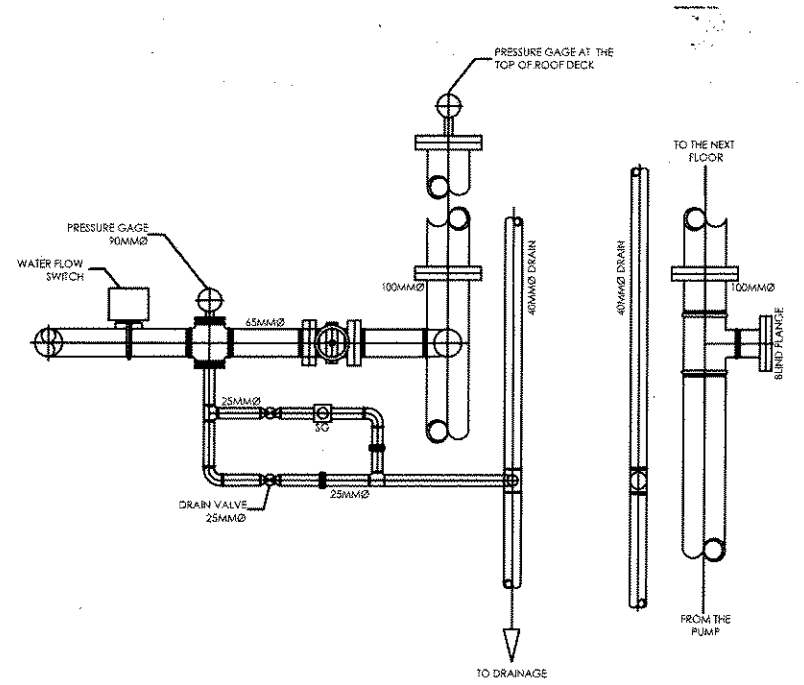
PROFESSIONAL ELECT. ENGR.
RONALD P. PEÑA
PPU OVPPD

1 FP 7 **FIRE PROTECTION DETAILS**
SCALE NTS.

END USER:	ENDORSED BY:		REC. APPROVAL	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
M. M. CALALAD DEAN CVSU - BACOOR	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR VPPD CVSU	I. C. A. PULINGA VPASS CVSU	H. D. ROBLES PRES CVSU	IMPROVEMENT OF BACOOR CAMPUS - CVSU - BACOOR CAMPUS BACOOR CITY	CAVITE STATE UNIVERSITY	FP - 7

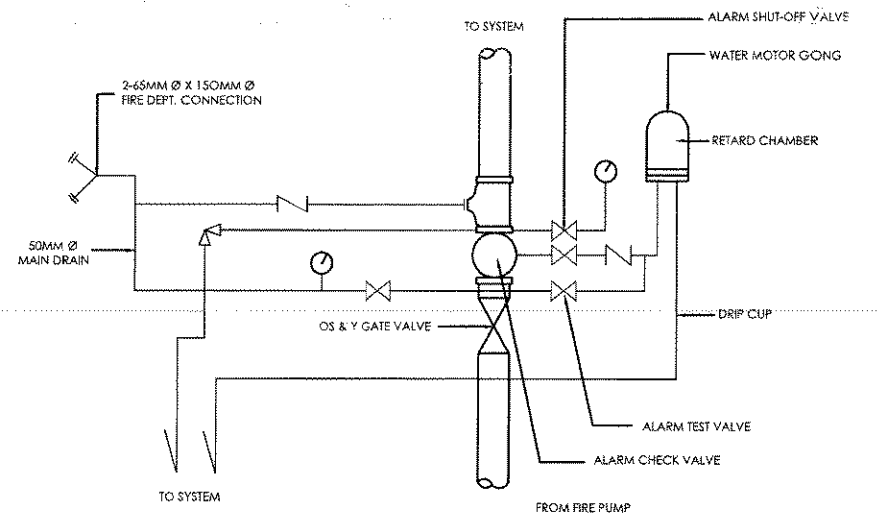


WATER SUPPLY AND FIRE PROTECTION
SYSTEM SCHEMATIC DIAGRAM



ELEVATION **VIEW AT RISER**

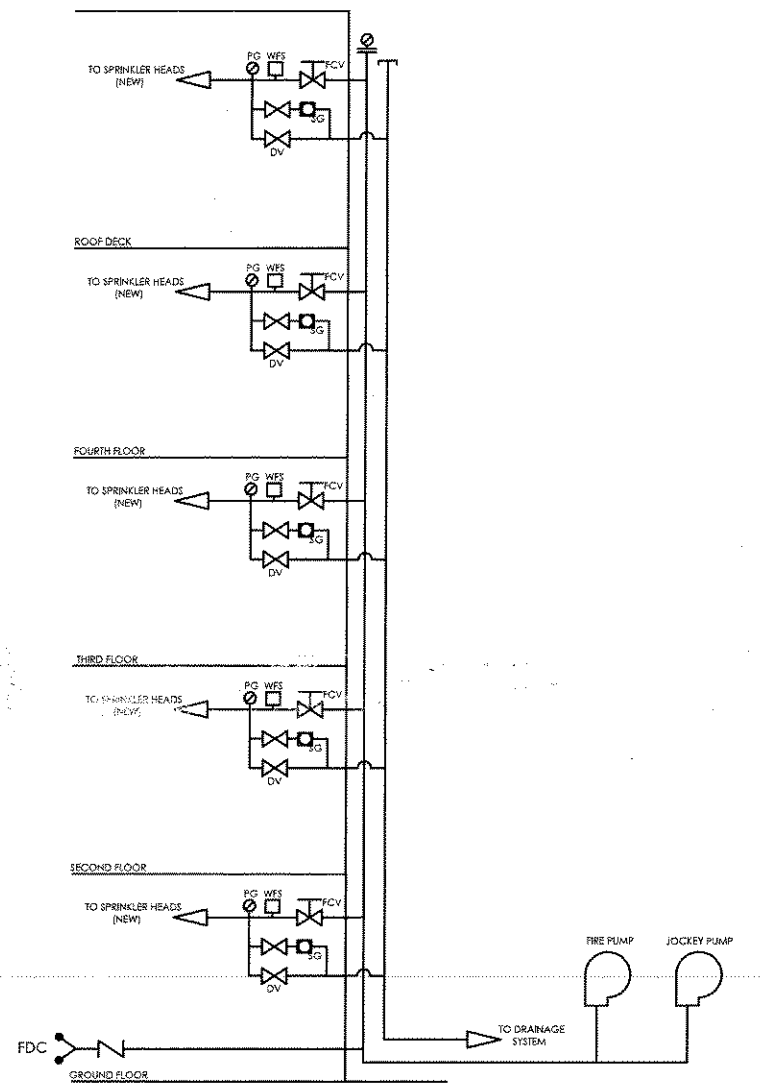
2 / M-17 **SUPERVISORY FLOOR CONTROL VALVE ASSEMBLY**
SCALE NTS.



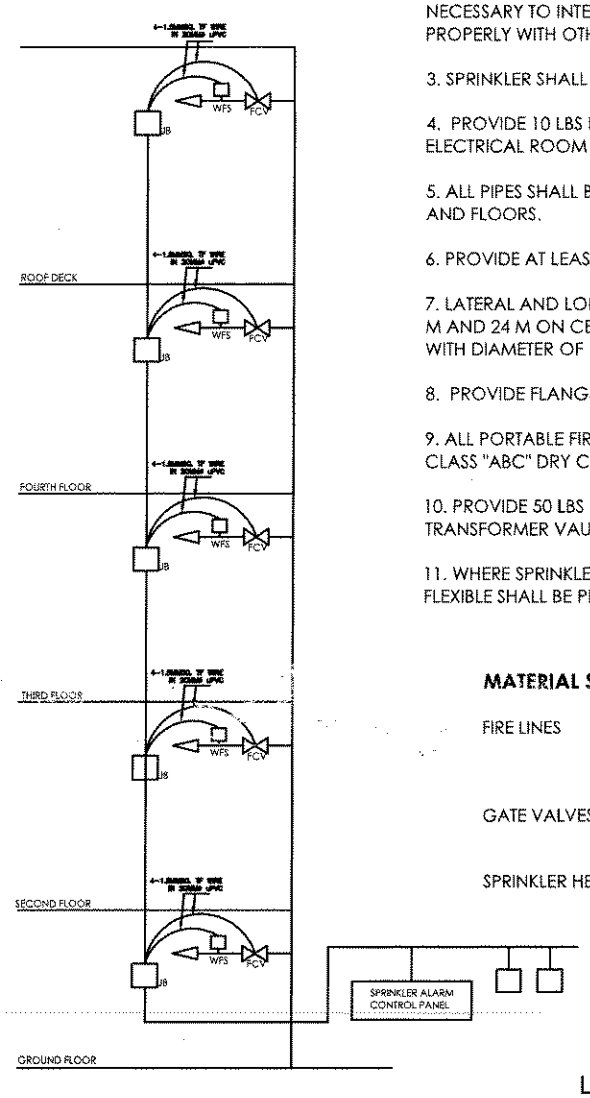
ALARM CHECK VALVE
SCHEMATIC DIAGRAM

1 / FP 8 **FIRE PROTECTION DETAILS**
SCALE NTS.

CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD PROFESSIONAL ELECTL. ENGR. RONALD P. PEÑA, PPU, OVPPD						
END USER: M. MACALALAD, DEAN, CVSU - BACOOR	ENDORSED BY: O. B. DELOS REYES, DIRECTOR, PLANNING OFFICE M. M. ESCOBAR, VPPD, CVSU	REC. APPROVAL: C. A. POLINGA, VPASS, CVSU	APPROVED BY: H. D. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: FP - 8



RISER DIAGRAM OF FIRE SPRINKLER SYSTEM
SCALE NTS.



RISER DIAGRAM OF SPRINKLER ALARM MONITORING SYSTEM
SCALE NTS.

GENERAL NOTES :

1. INSTALLATION OF FIRE SPRINKLER SYSTEM SHALL CONFORM TO NFPA-13 REQUIREMENTS.

2. COORDINATE WITH OTHER WORKS, INCLUDING THE PLUMBING PIPING AS NECESSARY TO INTERFACE COMPONENTS OF FIRE PROTECTION PIPING PROPERLY WITH OTHER WORKS

3. SPRINKLER SHALL BE SPACED NOT LESS THAN 6 FT (1.8 M) ON CENTERS.

4. PROVIDE 10 LBS HALOTRON PORTABLE FIRE EXTINGUISHERS TO ALL ELECTRICAL ROOM AND TO OTHER ROOM OF THE SAME USAGE.

5. ALL PIPES SHALL BE PROVIDED WITH THE PIPE SLEEVE THROUGH BEAMS, WALL, AND FLOORS.

6. PROVIDE AT LEAST ONE (1) HANGER BETWEEN EACH TWO (2) BRANCH LINES.

7. LATERAL AND LONGITUDINAL SWAY BRACES SPACED AT MAXIMUM OF 12.2 M AND 24 M ON CENTER RESPECTIVELY SHALL BE PROVIDED AT ALL PIPE LINES WITH DIAMETER OF 150 MM AND LARGER.

8. PROVIDE FLANGE CONNECTIO AT MAXIMUM INTERVAL OF 12 METERS.

9. ALL PORTABLE FIRE EXTINGUISHERS INSIDE FIRE HOSE CABINET (FHC) SHALL BE CLASS "ABC" DRY CHEMICAL UNLESS OTHERWISE SPECIFIED.

10. PROVIDE 50 LBS WHEELED TYPE HALOTRON PORTABLE FIRE EXTIGUISHER IN TRANSFORMER VAULTS.

11. WHERE SPRINKLER PASSES THROUGH SEISMIC SEPARATION ASSEMBLIES, FLEXIBLE SHALL BE PROVIDED.

12. PROVIDE AUXILLARY DRAIN FOR TRAPPED SECTION AS REQUIRED BY NFPA-13.

13. THE DISTANCE BETWEEN THE HANGER AND CENTER OF LINE OF AN UPRIGHT SPRINKLER HEAD SHALL NOT BE LESS THAN 76 MM.

14. PROVIDE NECESSARY EARTHQUAKE PROTECTION AS REQUIRED UNDER NFPA-13 AND APPLICABLE BUILDING CODE.

15. PIPING SHALL BE CONCEALED IN AREAS WITH DROP CEILINGS.

16. INSTALL IRON PIPE SLEEVES OF AMPLE DIAMETER AT ALL POINTS WHERE PIPES PENETRATE BEAMS, FLOOR OR WALLS. SIZE AND INSTALL SO THAT THE PIPES ARE NOT STRESSED.

17. SLEEVES SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF WALLS OR POURING OF CONCRETE. INSTALL SLEEVES FLUSH WITH ALL SURFACES.

18. THE CONTRACTOR MUST SUBMIT SHOP DRAWING INDICATING ACTUAL DIMENSIONAL SIZES, OPERATING WEIGHTS, AND SUFFICIENT CLEARANCES TO FACILITATE NORMAL SERVICE AND MAINTENANCE, HOWEVER, SHOULD ACTUAL EQUIPMENT PHYSICALLY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHOULD NOTIFY THE ARCHITECH IN WRITING.

19. ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATION OF THE LATEST EDITION OF THE PHILIPPINE MECHANICAL CODE.

20. ALL MECHANICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISOR OF A DULY LICENSED REGISTERED MECHANICAL ENGINEER.

MATERIAL SPECIFICATIONS :

FIRE LINES - SHALL BE BLACK IRON (BI) PIPES, SCHEDULE 40 CONFORMING TO ASTM A53, PACIFIC PIPES OR APPROVED BRAND.

GATE VALVES - SHALL BE OUTSIDE SCREW AND YOKE (OSY) , CHECK AND GLOBE VALVES TO ASTM B-62.

SPRINKLER HEADS - ALL SPRINKLER HEADS (CONCEALED, UPRIGHT & SIDEWALL) SHALL BE RATED 74° C (165° F). EXCEPT ON KITCHEN SHALL BE 100° C (212° F).

NOTES:

ALL PIPES SHALL HAVE A STRENGHT EQUIVALENT TO SCHEDULE 40

ALL PIPES SHALL BE PAINTED WITH EPOXY PRIMER PAINT AND WITH A RED PAINT AS FINAL COATING.

ALL CONNECTIONS SHALL BE LEAK PROOF AND SHALL BE ABLE TO RESIST HIGH PRESSURE.

USE PENDENT TYPE SPRINKLER HEADS FOR PORTIONS WITH CEILINGS.

USE SIDE WALL TYPE SPRINKLER HEADS IN STAIRCASES.

SPRINKLER SYSTEM WILL BE TAPPED TO EXISTING RISER AND DRAIN PIPES

LEGEND & ABBREV.:

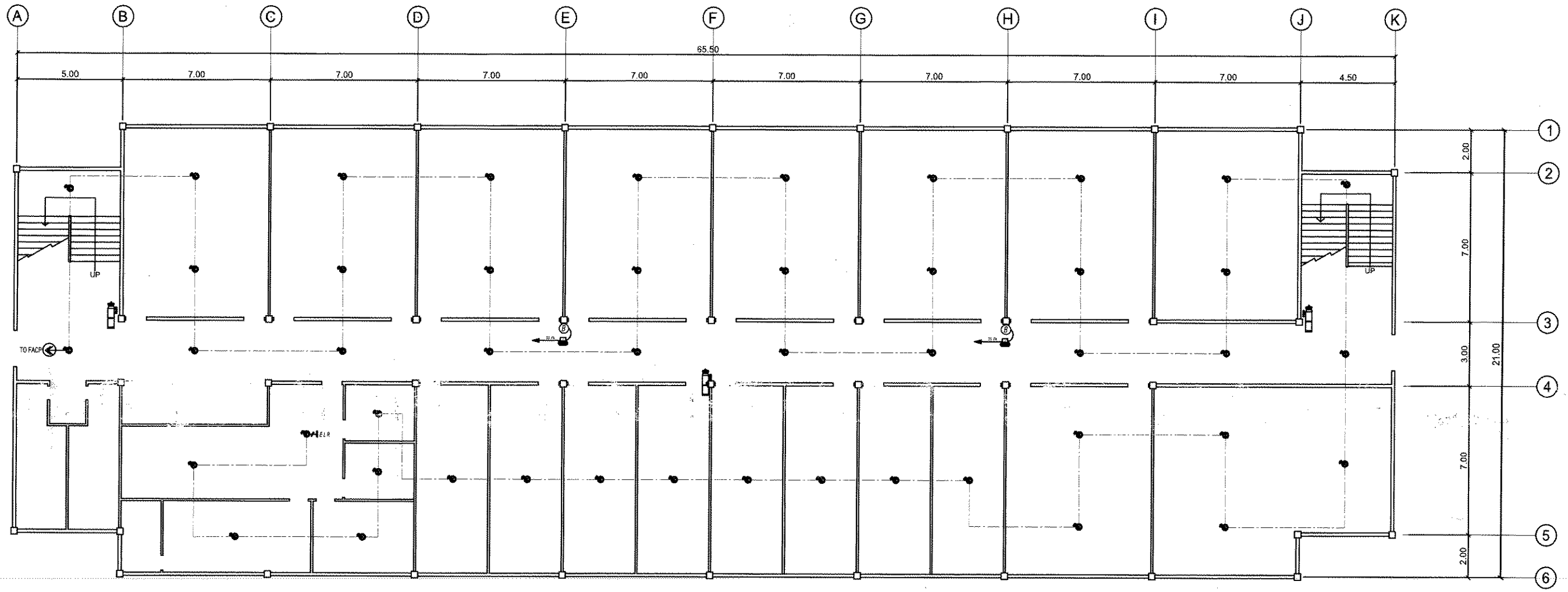
- GATE VALVE
- CHECK VALVE
- WATER FLOW SWITCH
- TEE CONNECTION
- ELBOW CONNECTION
- OS &Y GATE VALVE WITH MONITOR SWITCH
- END CAP
- PIPING SYSTEM
- PRESSURE RELIEF VALVE
- PENDENT/UPRIGHT SPRINKLER
- SIDE WALL SPRINKLER
- FIRE EXTINGUISHER
- SMOKE DETECTOR
- HCFC — EAGLE HCFC 123 (dichlorotriflouroethane) Ceilinf Type Fire Extinguisher, Stored Pressure type

C.I.	CONCENTRIC INCREASER, OPTIONAL
ER	ECCENTRIC REDUCER, OPTIONAL
RN	RISER NIPPLE
BFV	BUTTERFLY VALVE , WAFER TYPE
GV	GATE VALVE, RISING STEM
GV	GATE VALVE, RISING STEM
WCV	WAFER TYPE CHECK VALVE
CV	SWING TYPE CHECK VALVE
PRV	PRESSURE REDUCING VALVE
FP	FIRE PUMP
JP	JOCKEY PUMP
FA	FIRE ALARM
B	BELL

FIRE PROTECTION DETAILS

1 / FP 9 SCALE NTS.

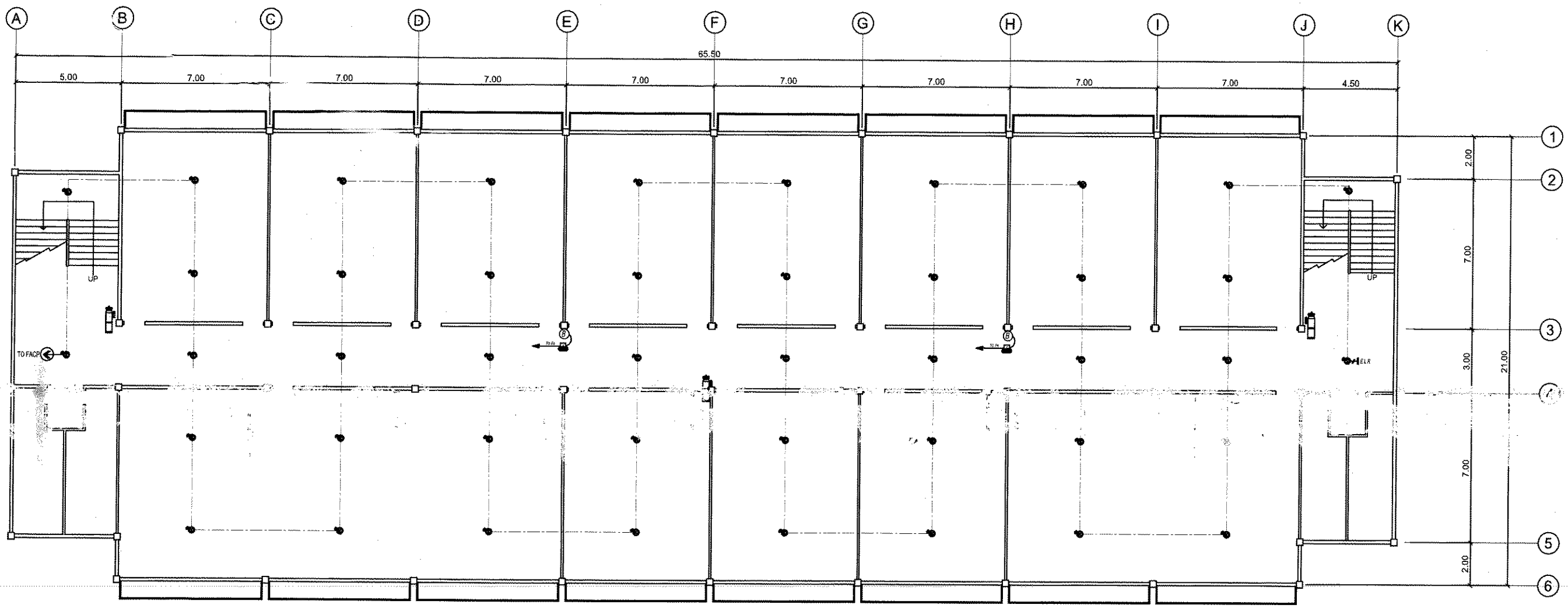
CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD PROFESSIONAL ELECTL. ENGR.: RONALD P. PEÑA, PPU, OVPPD						
END USER: M.C. MACALALAD, DEAN, CVSU - BACOOR	ENDORSED BY: O. B. DELOS REYES, DIRECTOR, PLANNING OFFICE	M. M. ESCOBAR, VPPD, CVSU	REC. APPROVAL: C. A. POLINGA, VPASS, CVSU	APPROVED BY: H. D. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: FP - 9



GROUND FLOOR FDAS PLAN

1 / FP 10 SCALE: 1:200 MTS.

CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD PROFESSIONAL ELECTL. ENGR. RONALD P. PEÑA, PPU, OVPPD						
END USER: M. MACALALAD, DEAN, CVSU-BACOOR	ENDORSED BY: O. B. DELOS REYES, DIRECTOR, PLANNING OFFICE; M. M. ESCOBAR, VPPD, CVSU	REC. APPROVAL: C. A. POLINGA, VPASS, CVSU	APPROVED BY: H. D. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: FP-10

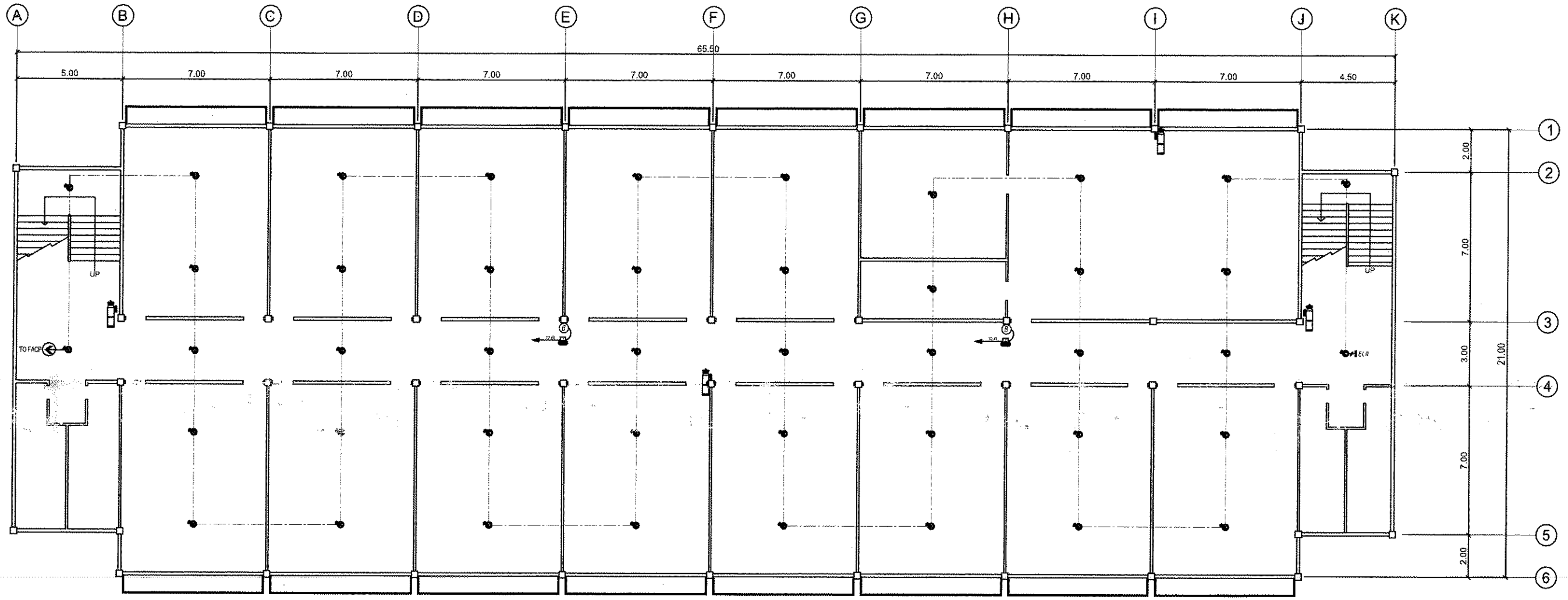


SECOND FLOOR FDAS PLAN

I / FP II

SCALE: 1:200 MTS.

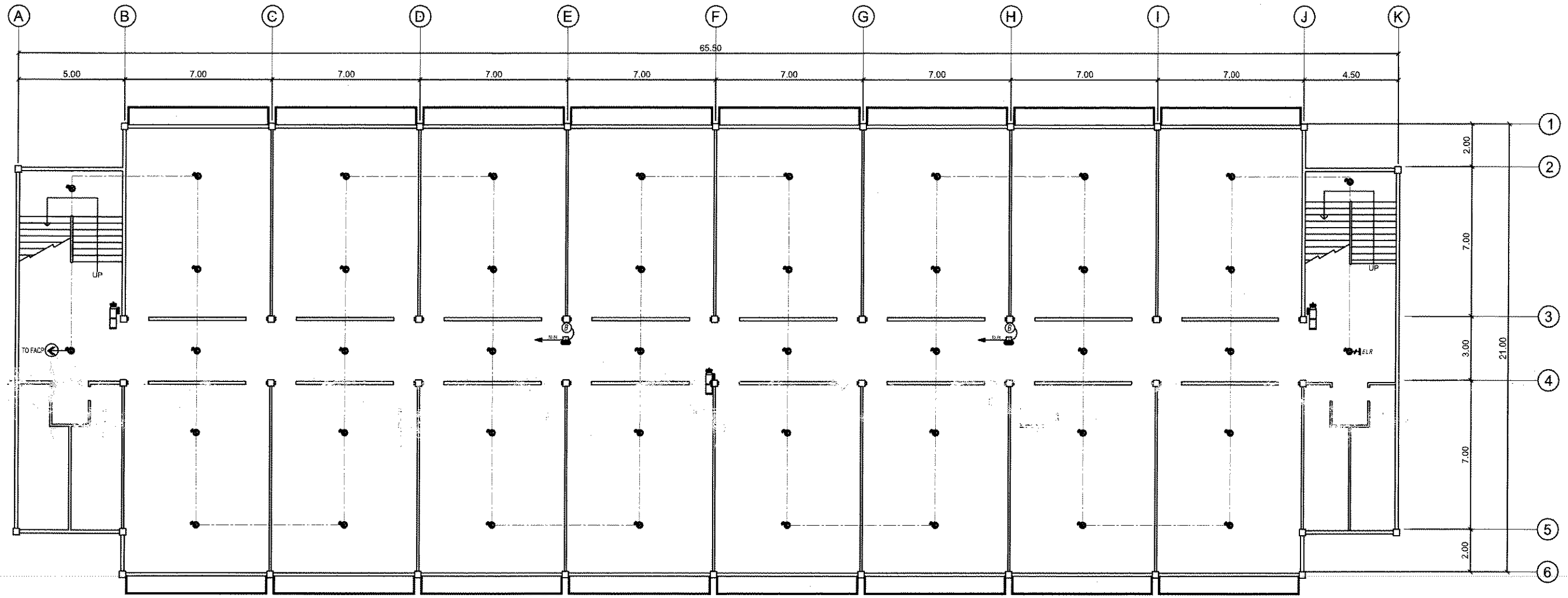
DRAWN BY: LORDLEY T. MELLAR, PPU, OVPPD PROFESSIONAL ELECTL. ENGR.: RONALD T. [illegible], PPU, OVPPD						
END USER: H. MACALALAD, DEAN, CVSU-BACOOR	ENDORSED BY: O. B. [illegible], DIRECTOR, PLANNING OFFICE	M. M. ESCOBAR, VPPD, CVSU	REC. APPROVAL: C. A. DULINGA, VPASS, CVSU	APPROVED BY: H. D. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: FP II



THIRD FLOOR FDAS PLAN

I / FP 12 SCALE: 1:200 MTS.

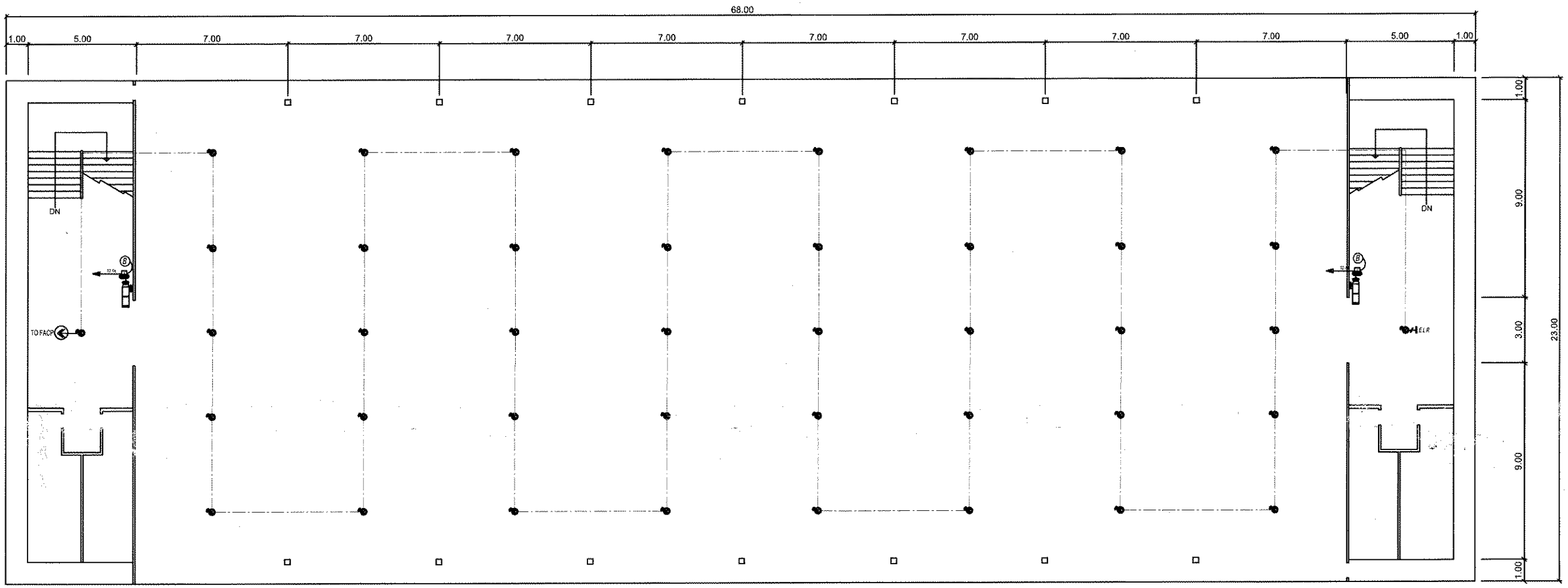
CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD PROFESSIONAL ELECTL. ENGR. RONALD C. PEÑA, PPU, OVPPD						
END USER: M. MACALALAD, DEAN, CVSU-BACOOR	ENDORSED BY: O. B. DELOS REYES, DIRECTOR, PLANNING OFFICE; M. M. ESCOBAR, VPPD, CVSU		REC. APPROVAL: J. C. A. DELINGA, VPASS, CVSU	APPROVED BY: M. D. ROBLES, PRES, CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: FP-12



FOURTH FLOOR FDAS PLAN

1 / FP 13 SCALE: 1:200 MTS.

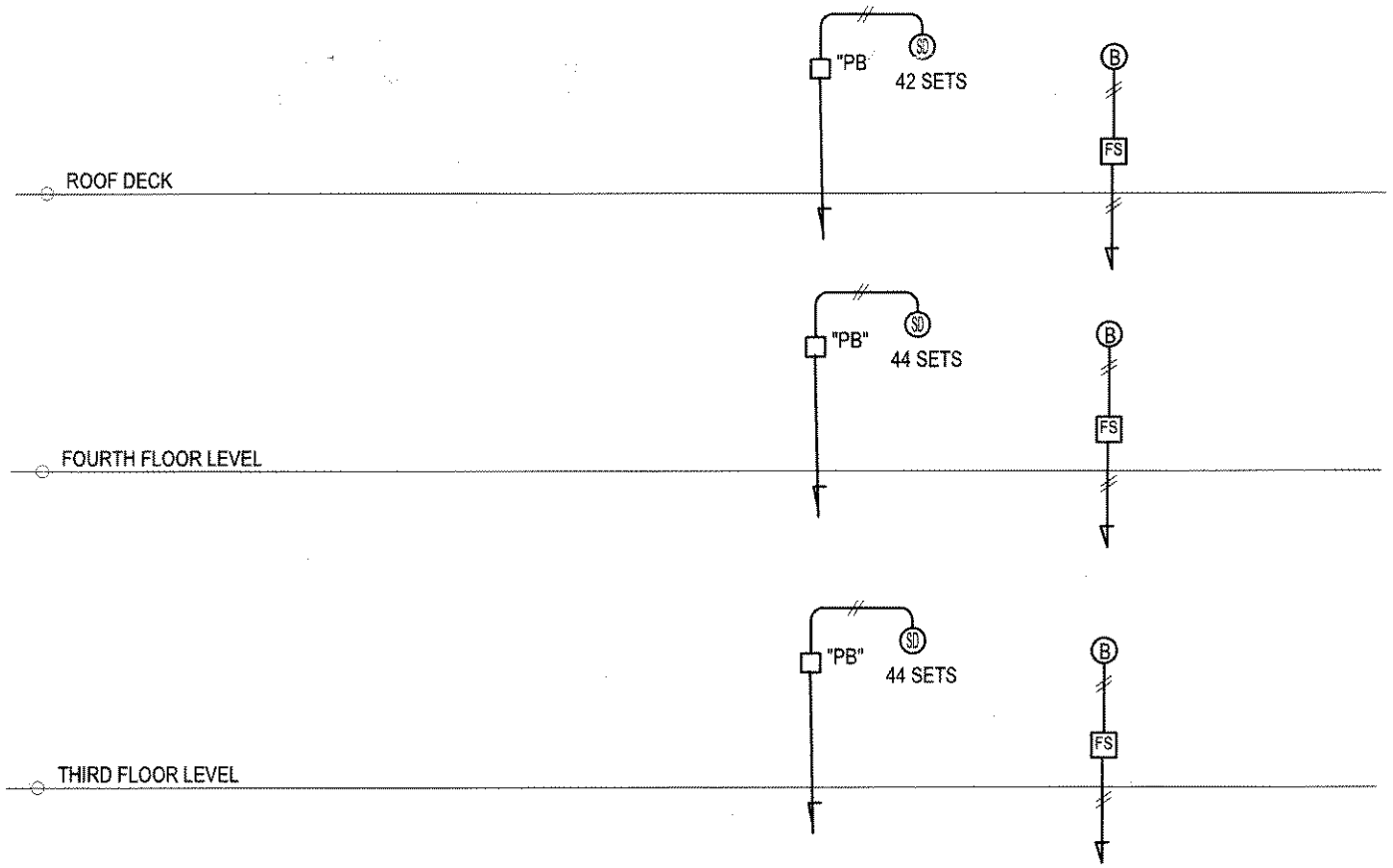
CADD BY: LORDLEY M. ABELLAR, PPU OVPPD PROFESSIONAL ELECTL. ENGR. RONALD [illegible]ÑA, PPU OVPPD						
END USER: M. MACALALAD, DEAN CVSU-BACOOR	ENDORSED BY: O. B. DELOS REYES, DIRECTOR PLANNING OFFICE; M. M. ESCOBAR, VPPD CVSU	REC. APPROVAL: C. A. POLINGA, VPASS CVSU	APPROVED BY: H. D. ROBLES, PRES CVSU	PROJECT TITLE/ LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: FP-13



ROOF DECK FDAS PLAN

1 / FP 14 SCALE: 1:200 MTS.

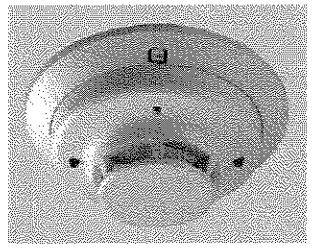
CADD BY: LORDLEY M. ABELLAR, PPU, OVPPD PROFESSIONAL ELECTL. ENGR. RONALD P. PEÑA, PPU, OVPPD						
END USER: M. MACALALAD, DEAN, CVSU-BACOOR	ENDORSED BY: O. B. DELOS REYES, DIRECTOR, PLANNING OFFICE M. M. ESCOBAR, VPPD, CVSU	REC. APPROVAL: C. A. POLINGA, VPASS, CVSU	APPROVED BY: M. D. ROBLES, PRES, CVSU	PROJECT TITLE / LOCATION: IMPROVEMENT OF BACOOR CAMPUS, CVSU - BACOOR CAMPUS, BACOOR CITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: FP-14



FIRE ALARM SYSTEM RISER DIAGRAM (FDAS)

1 FP 15 (SHOWING MANUAL STATIONS, BELLS AND SMOKE DETECTORS)

NOT TO SCALE

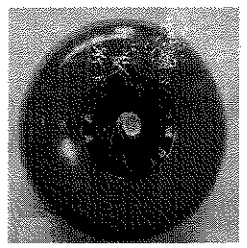


SMOKE DETECTOR

2 FP-4 NOT TO SCALE

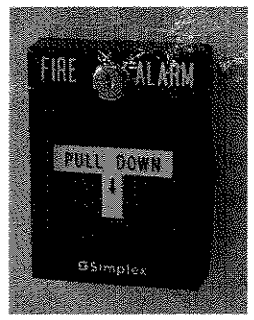
LEGEND & SYMBOLS:

SYMBOL	DESCRIPTIONS
SD	SMOKE DETECTOR
FS	FIRE ALARM MANUAL STATION
B	FIRE ALARM BELL OUTLET
——	HOMERUN TO FACP
⊩—	END OF LINE RESISTOR - ELR
FACP	FIRE ALARM CONTROL PANEL
—//—	2-2.0mm², THHN IN 15mmØ C.



FIRE ALARM BELL

3 FP-4 NOT TO SCALE



FIRE ALARM MANUAL STATION (FS)

4 FP-4 NOT TO SCALE

CADD BY: LORDLEY M. ABELLAR PPU OVPPD PROFESSIONAL ELECTL. ENGR. RONALD M. MEÑA PPU OVPPD						
END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
M. MACALALAD DEAN CVSU - BACOOR	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	IMPROVEMENT OF BACOOR CAMPUS CVSU - BACOOR CAMPUS BACOOR CITY	CAVITE STATE UNIVERSITY	FP - 15