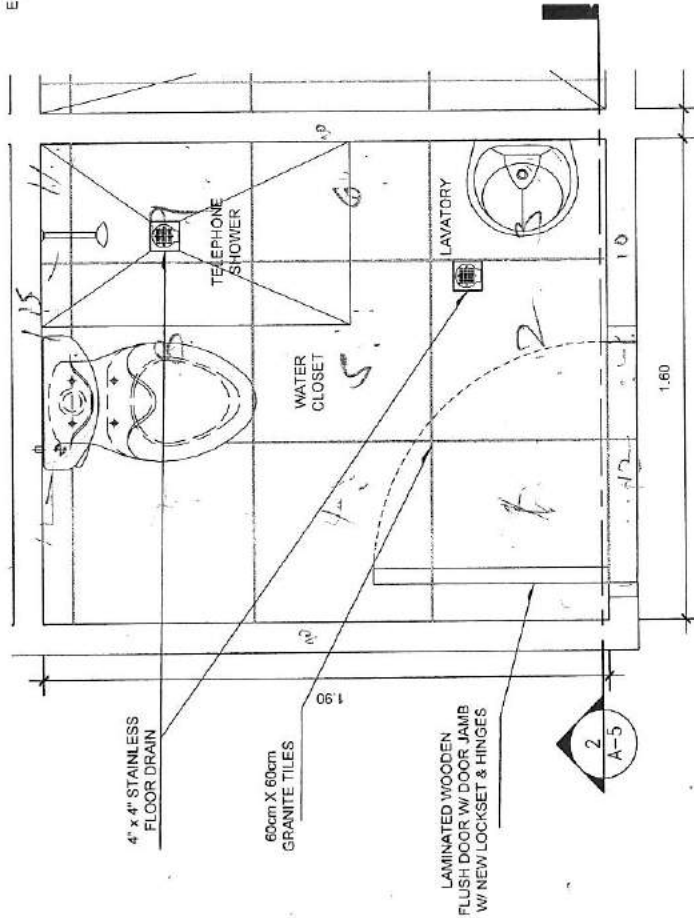
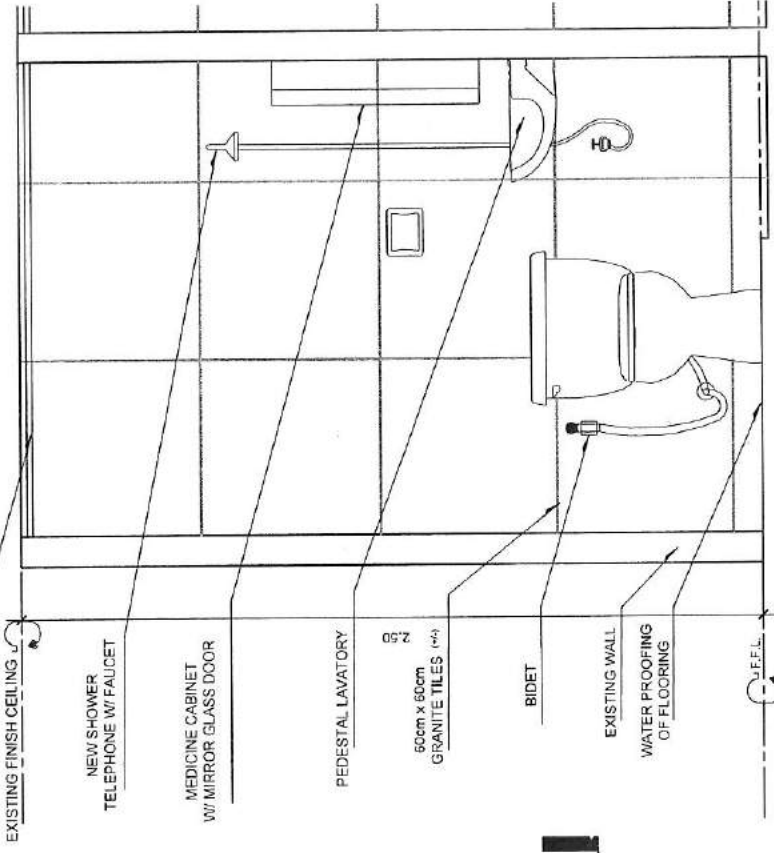


374 = 12



1 PLAN
A/5 SCALE 1:20 MTS

NEW 1" X 4" S4S KD CEILING
CORNICE (STAIN / VARNISH FINISH)



2 SECTION
A/5 SCALE 1:20 MTS



Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
PHILIPPINE NUCLEAR RESEARCH INSTITUTE
2002 JALAJALAN, CAGAYAN, CAGAYAN

UPGRADING OF
N.A.T. BLDG.
(C.Y. 2019)

PHILIPPINES NUCLEAR
RESEARCH INSTITUTE

F.A.D.
COMFORT ROOM
PLAN & DETAILS

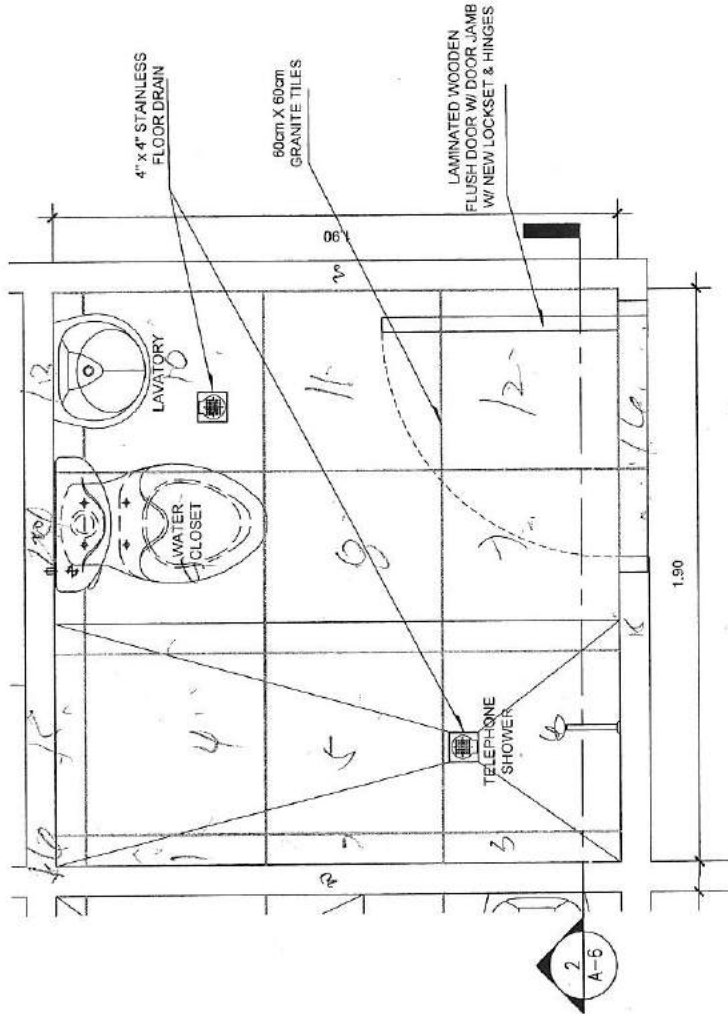
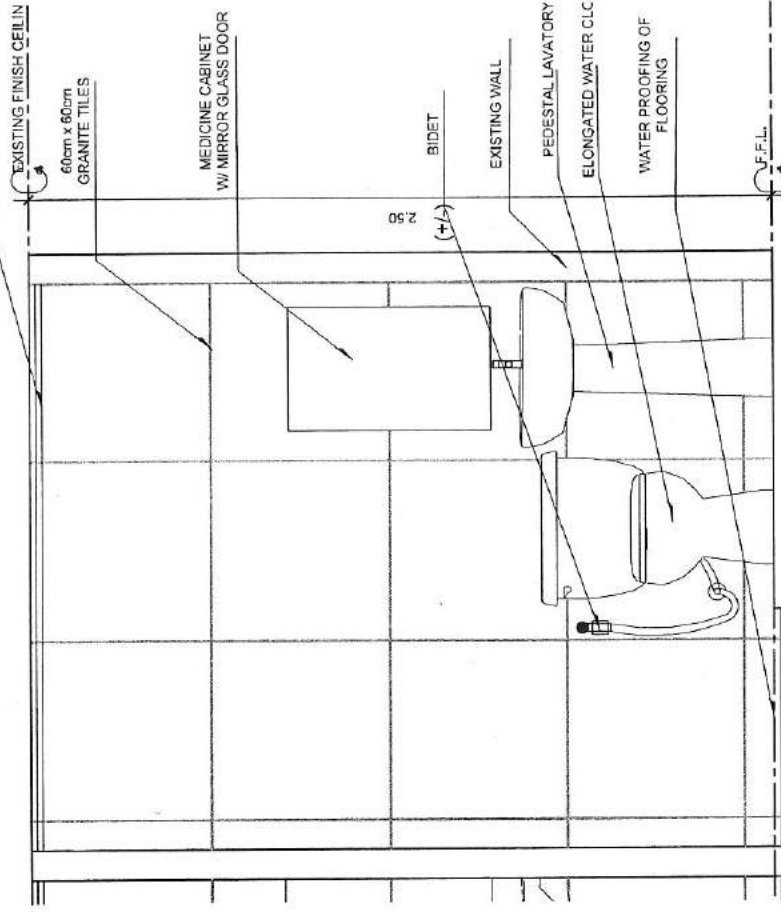
PROJECT
ANG ROSARIO S. REAS
ENR. ARTURO S. SUI
ENR. ARTURO S. SUI

SEAL AND SIGNATURE
ANG ROSARIO S. REAS
ENR. ARTURO S. SUI
ENR. ARTURO S. SUI

APPROVED
ANG ROSARIO S. REAS
ENR. ARTURO S. SUI
ENR. ARTURO S. SUI

DATE: MAY 2019
DRAWN BY: CARLO A. ARELLANO, P.D.
CHECKED BY: CARLO A. ARELLANO, P.D.
PROJECT NO.: A-5
5/10

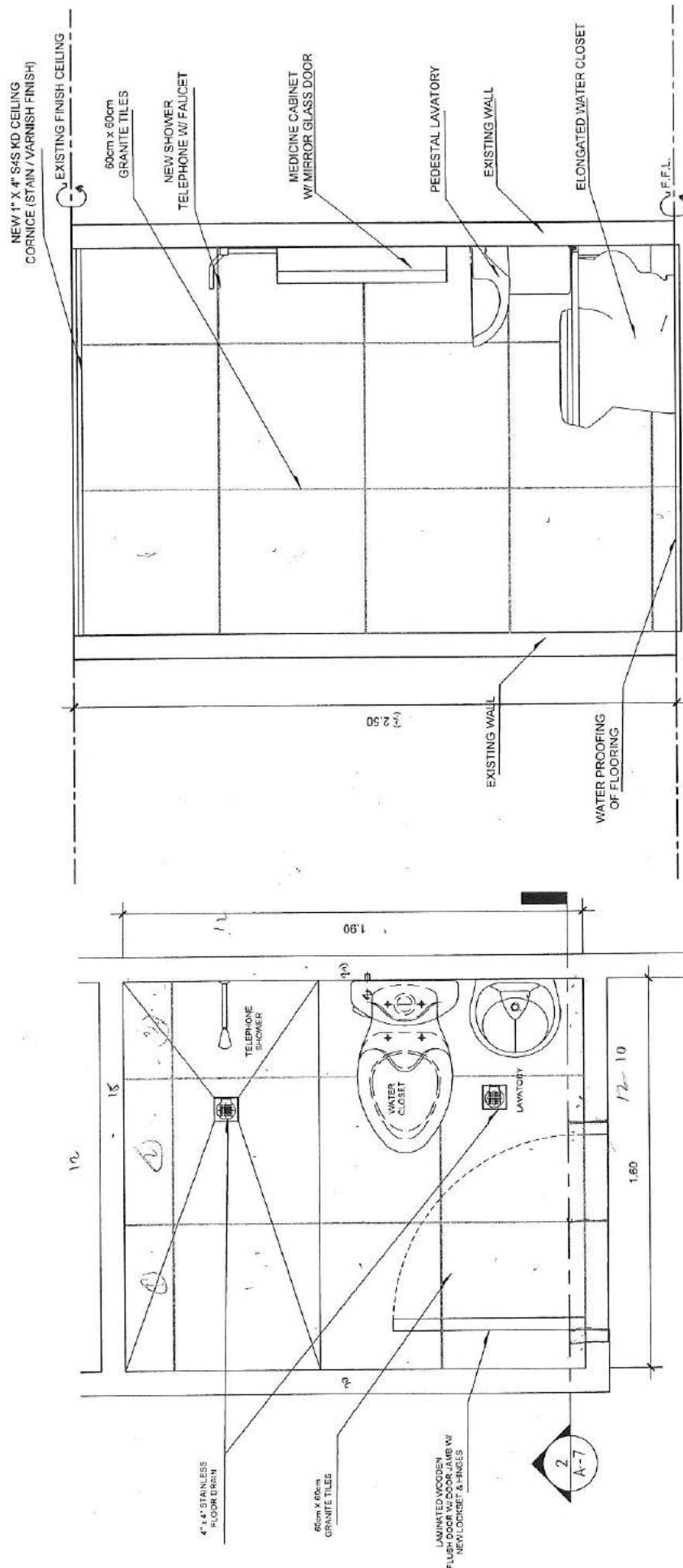
NEW 1" X 4" S4S KD CEILING
CORNICE (STAIN / VARNISH
FINISH)



2 SECTION
A6 SCALE 1:20 MTS

1 PLAN
A6 SCALE 1:20 MTS

 Department of Science and Technology PHILIPPINES NUCLEAR RESEARCH INSTITUTE COMPLEMENTARY OFFICE, ORANGE BUILDING, 10TH FLOOR	PROJECT UPGRADING OF N.A.T. BLDG. (C.Y. 2019)	OWNER PHILIPPINES NUCLEAR RESEARCH INSTITUTE	DESIGNED BY DR. ROSARIO S. REYES ARCHITECT DR. JUAN M. REYES ARCHITECT DR. JUAN M. REYES ARCHITECT	RECOMMENDED APPROVAL ANITA N. JELLAHEVY PH.D. ARCHITECT DR. JUAN M. REYES ARCHITECT DR. JUAN M. REYES ARCHITECT	APPROVED BY DR. JUAN M. REYES ARCHITECT DR. JUAN M. REYES ARCHITECT DR. JUAN M. REYES ARCHITECT	DEPUTY DIRECTOR COMFORT ROOM PLAN & DETAILS	PHILIPPINES NUCLEAR RESEARCH INSTITUTE	6/10
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 Republic of the Philippines DEPARTMENT OF SCIENCE AND TECHNOLOGY PHILIPPINE NUCLEAR RESEARCH INSTITUTE 3000 MONTENAPUE BLVD, CUBAO, QUEZON CITY	PROJECT UPGRADING OF N.A.T. BLDG. (C.Y. 2019)	OWNER PHILIPPINES NUCLEAR RESEARCH INSTITUTE	SHEET COVER BY NSD COMFORT ROOM PLAN & DETAILS	REVIEWED BY Engr. ROSEMARIE S. REAS Engr. JETSON S. REAS	DESIGNED BY Engr. RICHARD S. BRAGA Engr. JETSON S. REAS	DATE: MAY 2019 PROJECT NO. 7110 SHEET NO. A-7
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NEW 1" X 4" S4S KD CEILING
CORNICE (STAIN / VARNISH FINISH)

60cm x 60cm
GRANITE TILES

NEW SHOWER
TELEPHONE W/ FAUCET

MEDICINE CABINET
W/ MIRROR GLASS DOOR

PEDESTAL LAVATORY

EXISTING WALL

ELONGATED WATER CLOSET

F.F.L.

2.50

EXISTING WALL

WATER PROOFING
OF FLOORING

1.90

TELEPHONE
SHOWER

WATER
CLOSET

LAVATORY

1.60

4" x 4" STAINLESS
FLOOR DRAIN

60cm x 60cm
GRANITE TILES

LAMINATED WOODEN
FLOORING (EXISTING) W/ NEW
LOCKSET & HINGES

2
A-8

1 PLAN
A8 / SCALE 1:20 MTS

2 SECTION
A8 / SCALE 1:20 MTS

77



Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
PHILIPPINE N.A.R.T. RESEARCH INSTITUTE
EDUCATION, TRAINING, RESEARCH, INNOVATION, SERVICE

UPGRADING OF
N.A.R.T. BLDG.
(C.Y. 2019)

OWNER

PHILIPPINES NUCLEAR
RESEARCH INSTITUTE

SHEET COVER

A.R.D.
COMFORT ROOM
PLAN & DETAILS

DESIGNED BY

Engr. ARMANDO S. DEAS
Engr. ARMANDO S. DEAS
Engr. ARMANDO S. DEAS

REVIEWED BY

Engr. RICHARD T. BANGA
Engr. RICHARD T. BANGA
Engr. RICHARD T. BANGA

APPROVED BY

Engr. CARLO A. ARZILLA
Engr. CARLO A. ARZILLA
Engr. CARLO A. ARZILLA

CHECKED BY

Engr. CARLO A. ARZILLA
Engr. CARLO A. ARZILLA
Engr. CARLO A. ARZILLA

DATE

8/10

SHEET NO.

A-8

0.80mm THK PRE-PAINTED WALL ANGLE
 0.60mm THK X 0.10mm PRE-PAINTED METAL SPRANDEL
 12mm THK POLYETHYLENE FOAM INSULATION W/ ALUM. FOIL
 ON BOTH SIDE PASTE W/ RUBBER SEALANT
 1"X2"X1.00mm THK METAL FURRING & WALL ANGLE @0.80m O.C. B.W.
 1"X2" CARRYING CHANNEL W/ 10mm Ø THREADED HANGER W/ W-CLIP
 Z"X2"X $\frac{3}{8}$ " ANGULAR BAR SUPPORT BOLTED ON
 CONCRETE WALL @ 2.00m O.C.
 10" Ø PINLIGHT W/ METAL SHEET HANGER
 SUPPORT W/ 18W LED COOL WHITE BULB

VERIFY

(+/-) 2.50

EXISTING CEILING FINISH LINE

EXISTING CHB WALL

EXISTING F.F.L.

1 SECTION DETAILS

SCALE 1:20 MTS

Republic of the Philippines
 DEPARTMENT OF SCIENCE AND TECHNOLOGY
 PHILIPPINES NUCLEAR RESEARCH INSTITUTE
 3000 UNIVERSITY AVENUE, DAVAO CITY

PROJECT: UPGRADING OF N.A.R.T. BLDG. (C.Y. 2019)

CORPOR: PHILIPPINES NUCLEAR RESEARCH INSTITUTE

PROJECT NO. 120 MTS

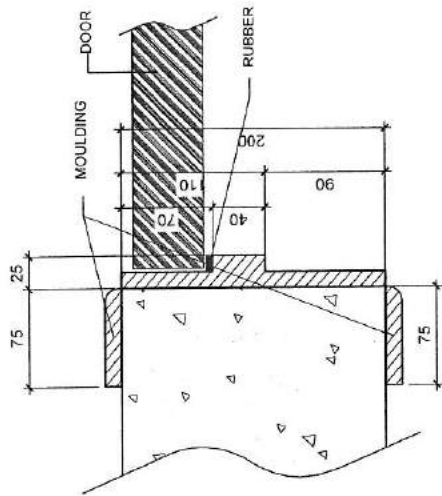
DATE: 9/10

DETAIL SECTION OF 3RD FLOOR HALLWAY AND STAIRWELL METAL SPRANDEL CEILING

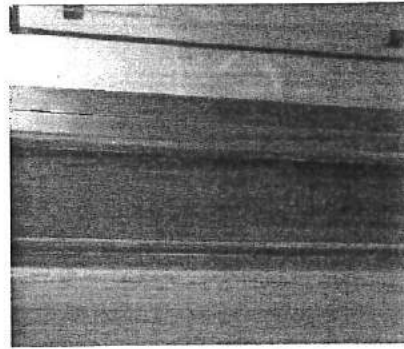
DESIGNED BY: ENGR. RESAQUE B. REYES
 CHECKED BY: ENGR. ARTURAT T. REYES

APPROVED BY: ENGR. REYATO I. BANGA
 ENGR. MA. CLELIA M. RAMOS
 ENGR. PRECIOUS B. PARRA
 ENGR. JOSE S. CASTAÑEDA

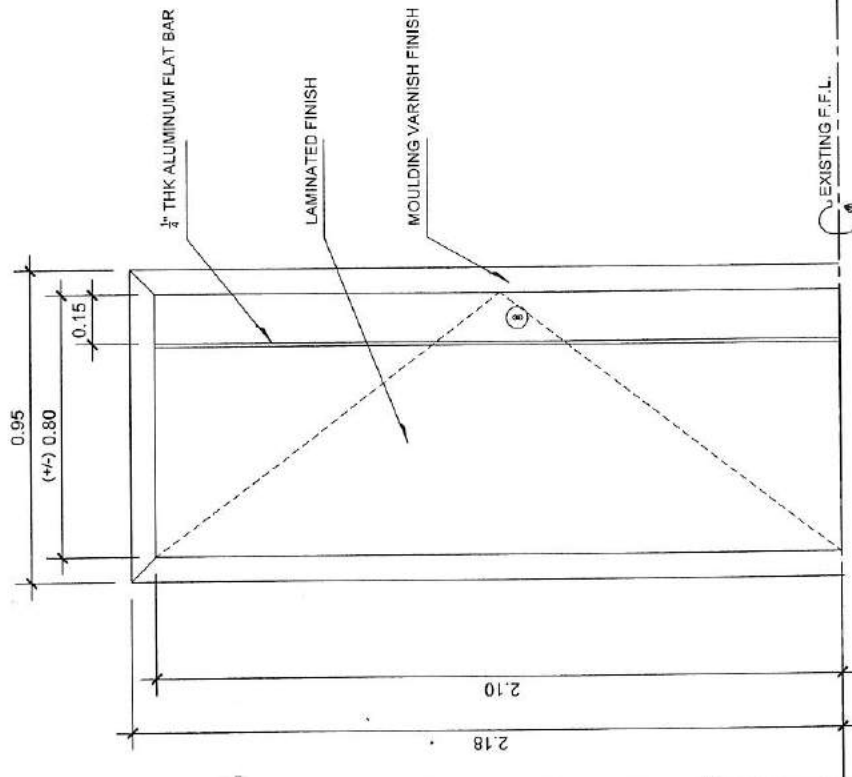
DESIGNED BY: ENGR. CARLOS A. ARDILA
 CHECKED BY: ENGR. CARLOS A. ARDILA
 DATE: 9/10



2 SECTION DETAILS OF DOOR JAMB
1:5 MTS
SCALE

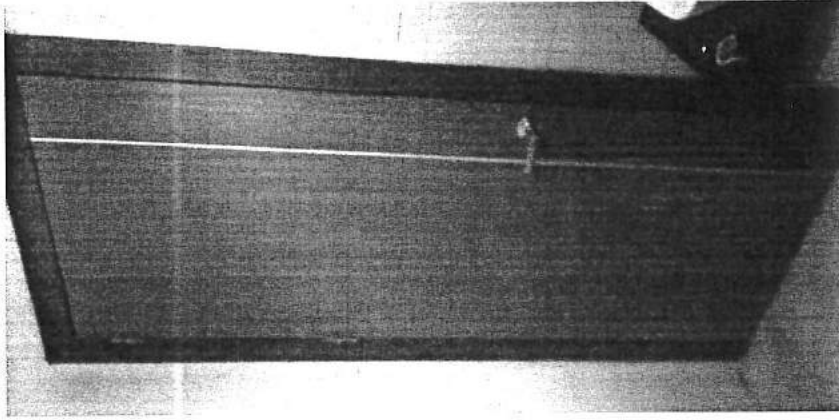


3 ACTUAL IMAGE OF DOOR JAMB
NTS
SCALE

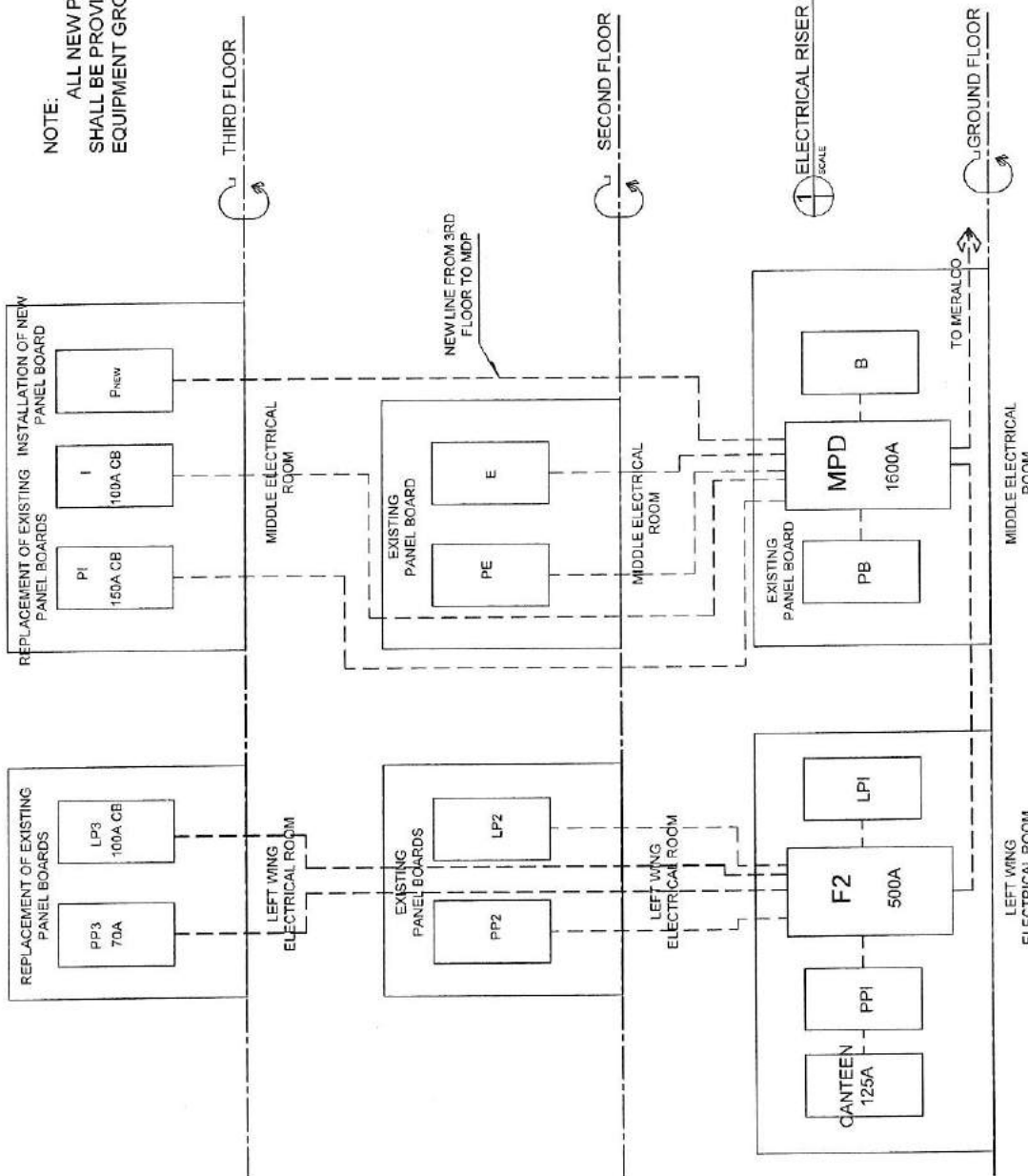


1 ELEVATION DETAILS OF DOOR
1:20 MTS
SCALE

4 ACTUAL IMAGE OF DOOR
NTS
SCALE

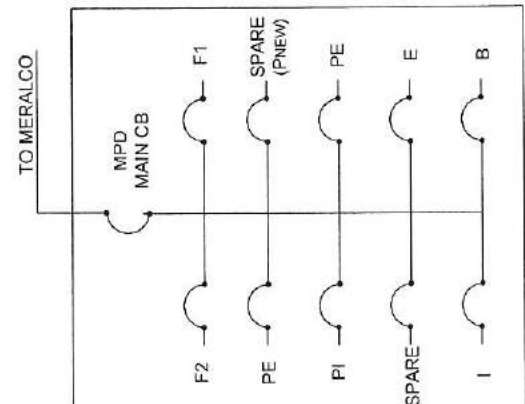


	Republic of the Philippines DEPARTMENT OF SCIENCE AND TECHNOLOGY PHILIPPINE NUCLEAR RESEARCH INSTITUTE NARRATIVE: "NARRATIVE PLAN" (2019-2021)	PROJECT: UPGRADING OF N.A.R.T. BLDG. (C.Y. 2019)	CLIENT: PHILIPPINES NUCLEAR RESEARCH INSTITUTE	DESIGNER: SECTION DETAILS OF DOOR & DOOR JAMB FOR C.R.	DESIGNED BY: Engr. ROSALYN S. REYES Engr. ROBERTO T. BANGA Engr. JENNY M. PABLO Engr. JENNY M. PABLO Engr. JENNY M. PABLO	REVIEWED BY: Engr. JENNY M. PABLO Engr. JENNY M. PABLO Engr. JENNY M. PABLO	APPROVED BY: Engr. JENNY M. PABLO Engr. JENNY M. PABLO Engr. JENNY M. PABLO	CHECKED BY: Engr. JENNY M. PABLO Engr. JENNY M. PABLO Engr. JENNY M. PABLO	SHEET NO. A-10 PAGE NO. 9/10
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- LEGEND OF SYMBOLS:**
- PINLIGHT
 - ⊕ CIRCUIT HOMERUN
 - ▢ PANEL BOARD
 - ⌋ CIRCUIT
 - S. SINGLE SWITCH.
 - S3W. THREE WAY SWITCH
 - S4W. FOUR WAY SWITCH
 - S2ab. 2 GANG SWITCH

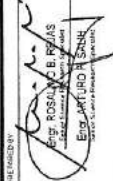
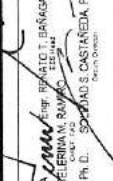
NOTE:
ALL NEW PANEL BOARDS
SHALL BE PROVIDED WITH AN
EQUIPMENT GROUND TERMINAL

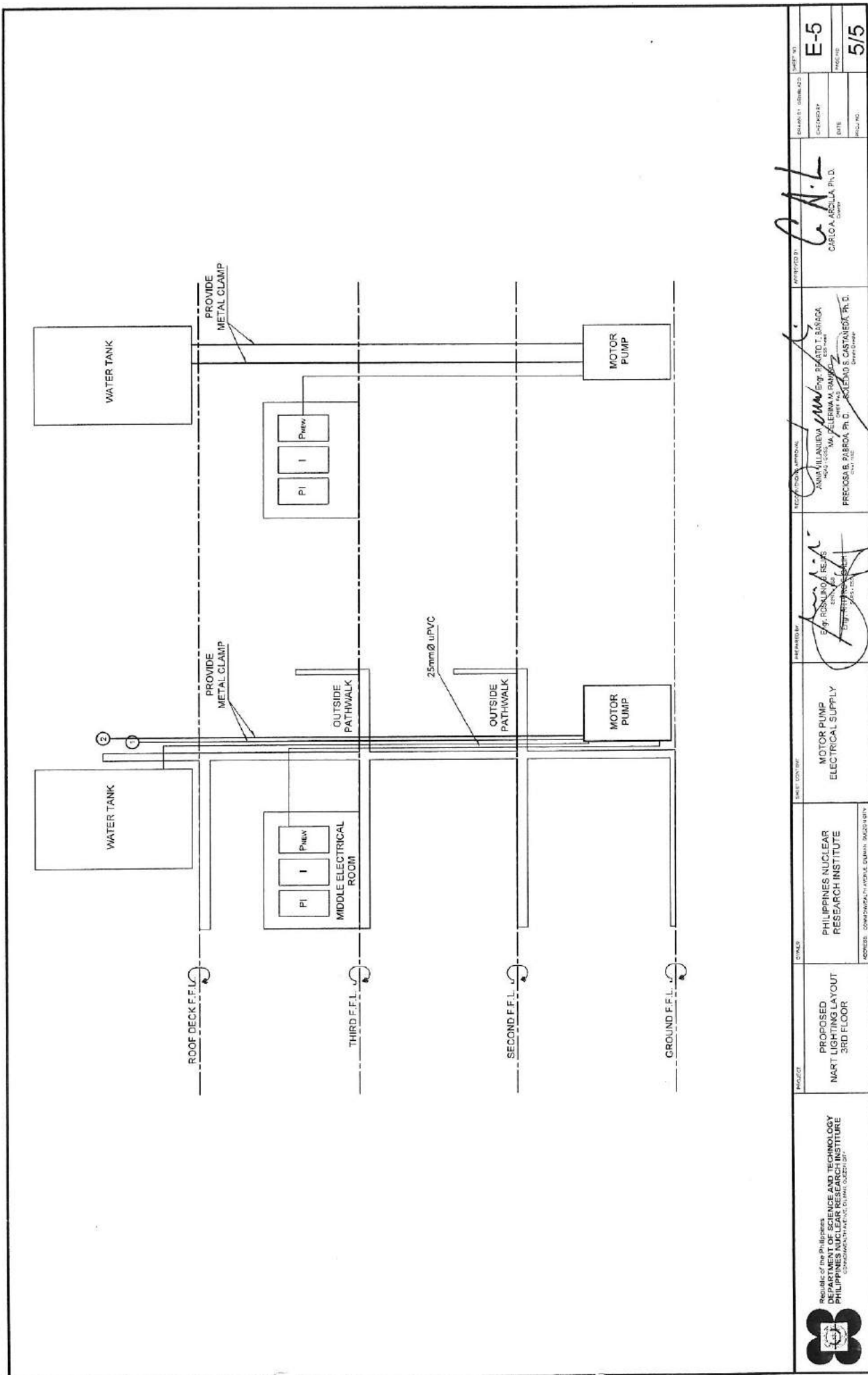


	DEPARTMENT OF SCIENCE AND TECHNOLOGY PHILIPPINES NUCLEAR RESEARCH INSTITUTE DOST-NGI, ALABANG, MARIKINA CITY, PHILIPPINES	PROPOSED NART LIGHTING LAYOUT 3RD FLOOR	PHILIPPINES NUCLEAR RESEARCH INSTITUTE	SHEET COVER	N.A.R.T. LIGHTING LAYOUT DIAGRAM FOR 3RD FLOOR	PREPARED BY: PRECIOSA B. PABOA, Ph.D. Engr. Preciosa B. Paboa Engr. Preciosa B. Paboa	CHECKED BY: ANNA VILLANUEVA, Ph.D. Engr. Anna Villanueva Engr. Anna Villanueva	APPROVED BY: CARLO A. ARDILA, Ph.D. Engr. Carlo A. Ardila Engr. Carlo A. Ardila	DESIGNED BY:	DRAWN BY:	E-3
									DATE:	SHEET NO.:	3/5

LOAD SCHEDULE - NEW PANEL BOARD, THIRD FLOOR										
CIRCUIT NO.	CIRCUIT RATING / VOTS	LOAD DESCRIPTION	PHASE LOADING			CIRCUIT BREAKER			HOME RUN/ WIRE SIZE	
			ØAB	ØBC	ØCA	POLE	FRAME	TRIP		
1	230	MOTOR	40	40	40	3	200	100	3-30mm ² - 1-14mm ² THHN WIRE	
2	230	MOTOR	24	24	24	3	100	60	3-14mm ² - 1-5mm ² THHN WIRE	
3	230	MOTOR	16	16	16	3	100	40	3-8.0mm ² - 1-3.5mm ² THHN WIRE	
4	230	MOTOR	16	16	16	3	100	40	3-8.0mm ² - 1-3.5mm ² THHN WIRE	
5	230	ACCU	12			3	100	30	3-5.5mm ² - 1-2.0mm ² THHN WIRE	
6	230	ACCU		12		3	100	30	3-5.5mm ² - 1-2.0mm ² THHN WIRE	
6	230	ACCU			12	3	100	30	3-5.5mm ² - 1-2.0mm ² THHN WIRE	
6	230	ACCU	12			3	100	30	3-5.5mm ² - 1-2.0mm ² THHN WIRE	
TOTAL			120	108	108					
COMPUTATION:			MAIN FEEDER USE:			PROTECTION USE:				
IL = [(120)(1.732) + 25% (40)] X 80% D.F.			3-80mm ² , 1 - 38mm ² THHN CABLE			200AT, 250AF, 3P, 230V				
IL = 174.27 AMPS			ON 80mm. DIAMETER RSC PIPE			INDUSTRIAL TYPE CIRCUIT BREAKER				

1 LOAD SCHEDULE
SCALE
MKS

 Republic of the Philippines DEPARTMENT OF SCIENCE AND TECHNOLOGY PHILIPPINE INSTITUTE OF TECHNOLOGY	PROJECT	PROPOSED NART LIGHTING LAYOUT 3RD FLOOR	OWNER	PHILIPPINES NUCLEAR RESEARCH INSTITUTE	SHEET CONTENT	NART LIGHTING LAYOUT SCHEDULE OF LOAD FOR 3RD FLOOR NEW PANEL BOARD	DESIGNER	 Eng. ROSALINDA B. REYES Licensed Professional Engineer No. 123456789 Date: 12/12/2023	REVIEWER	 Preciosa B. PAERAGA, Ph.D. Licensed Professional Engineer No. 987654321 Date: 12/12/2023	APPROVED BY	 CARLO A. ARDILLA, Ph.D. Licensed Professional Engineer No. 543210987 Date: 12/12/2023	DRAWN BY: CARLO ARDILLA CHECKED BY: DATE: PAGE NO.: TOTAL NO. OF PAGES:	SHEET NO.: TOTAL NO. OF SHEETS:
														E-4 4/5



APPROVED BY: *C.A.L.*
CARLO A. ARCELA, Ph.D.
CUMM

RECOMMENDED BY: *Eng. BEATO T. BAYAGA*
ANIMILANILAN
RECOMMENDED BY: *MA. CECILIA M. RAMOS*
PRECOSA B. PIERRA, Ph.D.
RECOMMENDED BY: *MA. CECILIA M. RAMOS*
PRECOSA B. PIERRA, Ph.D.

REVIEWED BY: *ENR. ROSALINDA REYES*
REVIEWED BY: *ENR. ROSALINDA REYES*
REVIEWED BY: *ENR. ROSALINDA REYES*

SHEET CONTENT: MOTOR PUMP ELECTRICAL SUPPLY

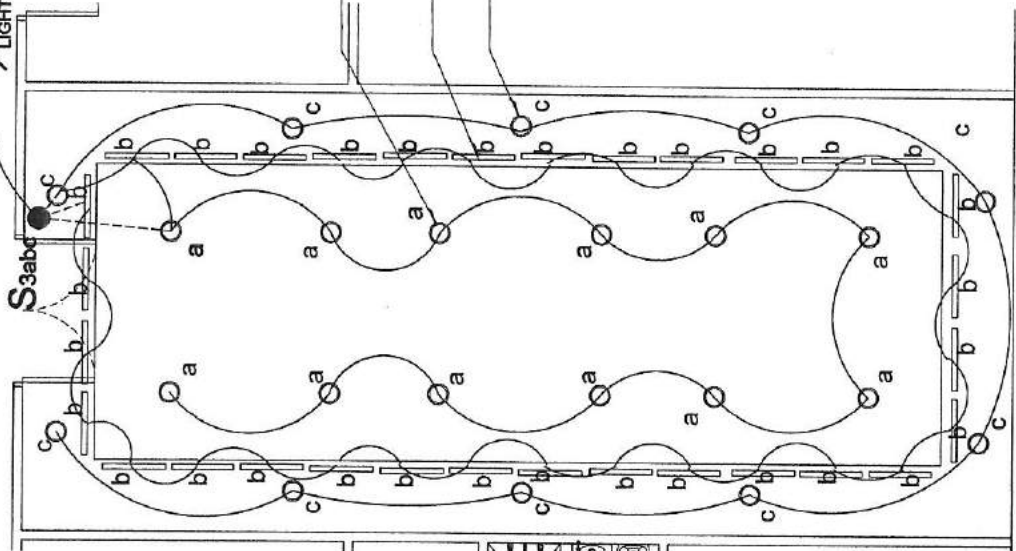
PROJECT: PHILIPPINES NUCLEAR RESEARCH INSTITUTE
COMMITTEE ON NUCLEAR SCIENCE

PROPOSED NART LIGHTING LAYOUT 3RD FLOOR

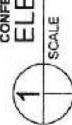
Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
PHILIPPINE SCIENCE CENTER
COMMITTEE ON NUCLEAR SCIENCE

DATE: 01-08-22
CHECKED BY: *E-5*
DATE: *5/5*
PROJECT NO.

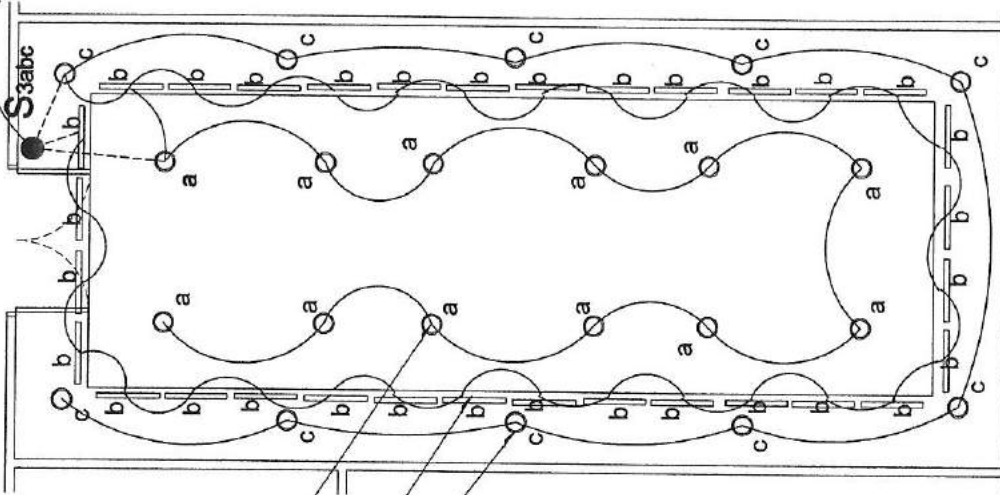
TAP TO EXITING
LIGHTING CIRCUIT



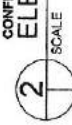
CONFERENCE ROOM 2 - 2ND FLOOR
ELECTRICAL LIGHTING LAYOUT (NART BLDG.)



TAP TO EXITING
LIGHTING CIRCUIT



CONFERENCE ROOM 3 - 3RD FLOOR
ELECTRICAL LIGHTING LAYOUT (NART BLDG.)

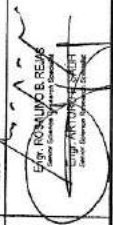
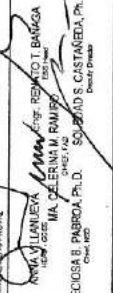


LEGEND OF SYMBOLS:
○ PINLIGHT
— T-5 FLOURESCENT LIGHT
S3abc 3 GANG SWITCH

	UPGRADING OF N.A.R.T. BLDG. (C.Y. 2019)	PHILIPPINES NUCLEAR RESEARCH INSTITUTE	CONFERENCE ROOMS 2 & 3 ELECTRICAL LIGHTING LAYOUT NART BLDG.	REVIEWED BY: ENR. ROSEANNE PAREAS ENR. ARISTOTELE J. JUAN ENR. JUAN P. DELA CRUZ	RECOMMENDED BY: ANNA ALJALANUEVA MA. JESSICA T. RAMOS MA. JESSICA T. RAMOS	APPROVED BY: ENR. RENATO T. BANGA CARLO A. ARILLA, Ph.D. SOLEDAD S. CASTAÑEDA, Ph.D.	DESIGNED BY: DATE: MAY 7, 2019 PROJECT NO.: SHEET NO.: DRAWN BY: CONTINUED
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LOAD SCHEDULE - NEW PANEL BOARD, THIRD FLOOR									
CIRCUIT NO.	CIRCUIT RATING / VOTS	LOAD DESCRIPTION	PHASE LOADING			CIRCUIT BREAKER			HOME RUN/ WIRE SIZE
			ØAB	ØBC	ØCA	POLE	FRAME	TRIP	
1	230	MOTOR	40	40	40	3	200	100	
2	230	MOTOR	24	24	24	3	100	60	
3	230	MOTOR	16	16	16	3	100	40	
4	230	MOTOR	16	16	16	3	100	40	
5	230	ACCU	12			3	100	30	
6	230	ACCU		12		3	100	30	
6	230	ACCU			12	3	100	30	
6	230	ACCU	12			3	100	30	
TOTAL			120	108	108				
COMPUTATION:			MAIN FEEDER USE:			PROTECTION USE:			
IL = $[(120)(1.732) + 25\% (40)] \times 80\% \text{ D.F.}$			3-80mm ² , 1 - 38mm ² THHN CABLE			200AT, 250AF, 3P, 230V			
IL = 174.27 AMPS			ON 80mm. DIAMETER RSC PIPE			INDUSTRIAL TYPE CIRCUIT BREAKER			

1 LOAD SCHEDULE
SCALE NTS

 Republic of the Philippines DEPARTMENT OF SCIENCE AND TECHNOLOGY PHILIPPINES NUCLEAR RESEARCH INSTITUTE CONDOMINIUM 10 AVENUE, DAVAO CITY	PROJECT PROPOSED NART LIGHTING LAYOUT 3RD FLOOR	OWNER PHILIPPINES NUCLEAR RESEARCH INSTITUTE ADDRESS: COMPOUND 1, AVENUE, DAVAO CITY	SHEET COVER N.A.R.T. LIGHTING LAYOUT SCHEDULE OF LOAD FOR 3RD FLOOR NEW PANEL BOARD	DESIGNED BY  E.R. RANALDE Senior Electrical Engineer	RECOMMENDED APPROVAL  MA. CHERIE M. RAUPE Senior Electrical Engineer	APPROVED BY  CARLO A. ARELLANO, Ph.D. Chief Engineer	SHEET NO. E-4 DATE 4/5
--	--	--	---	--	---	---	---------------------------------