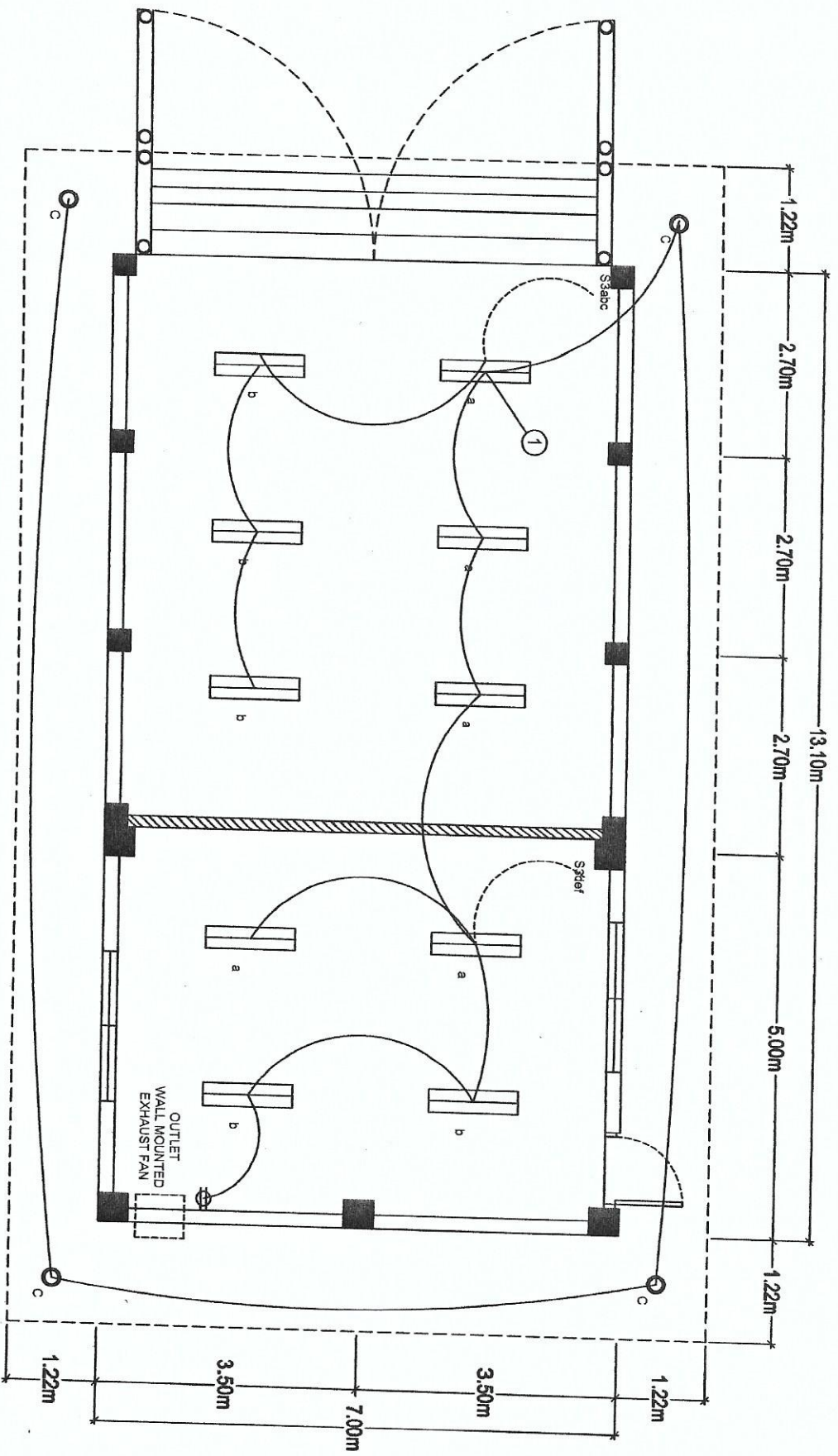
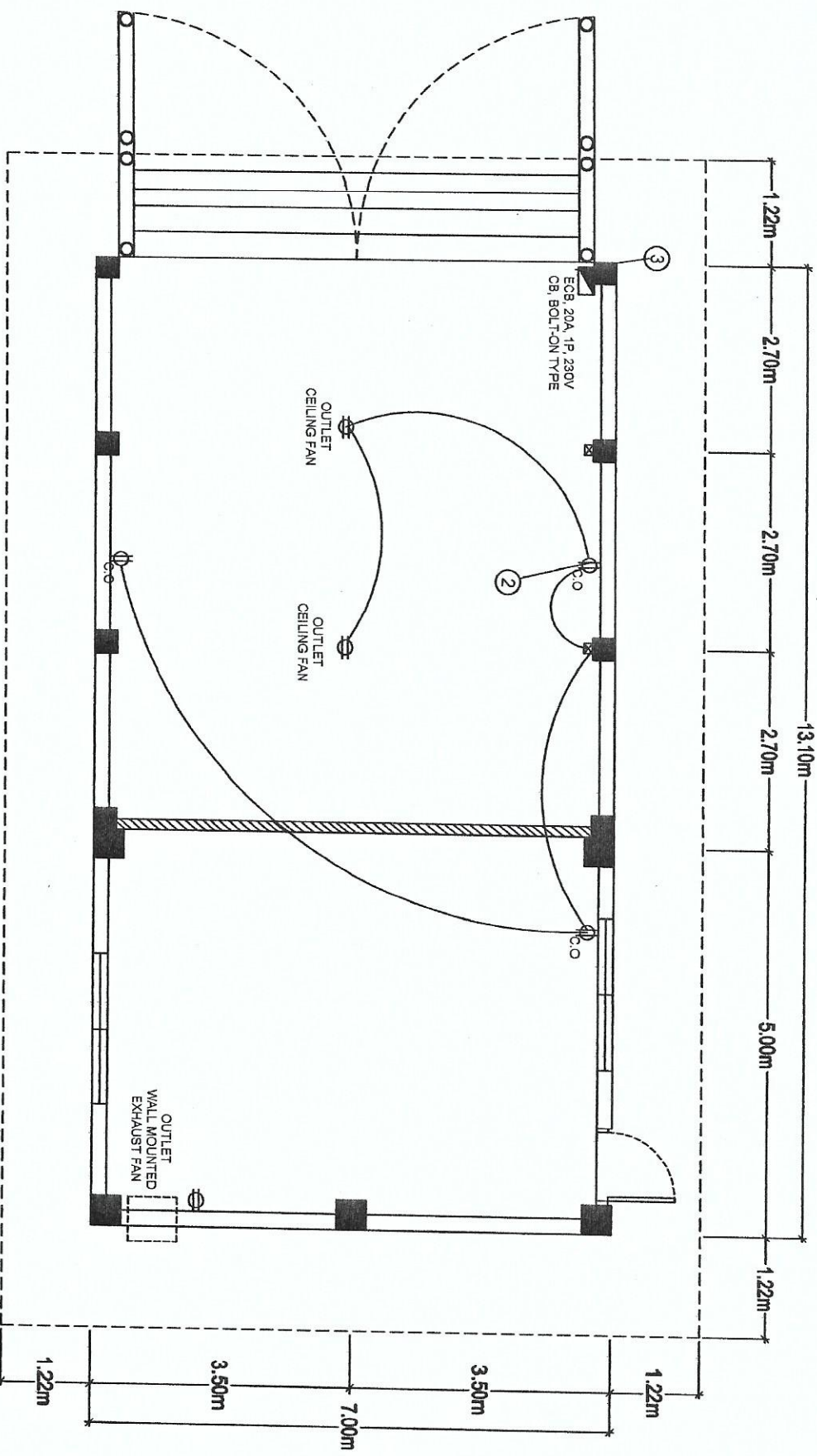




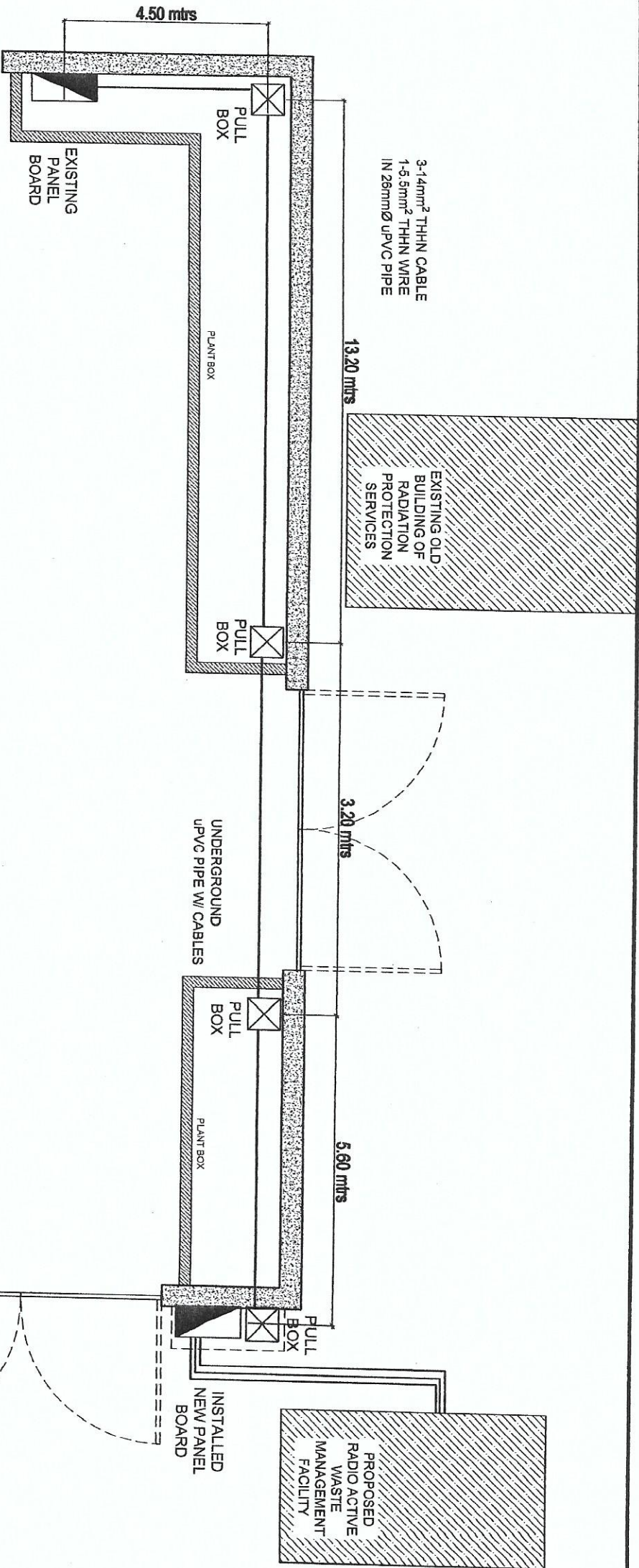
**LIGHTING LAYOUT**  
SCALE NTS

|                                                                                                                                                                                                                                               |  |                                        |                                                           |                                                                               |                                                                  |                                                                               |                                  |                     |           |
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| <br>Republic of the Philippines<br>DEPARTMENT OF SCIENCE AND TECHNOLOGY<br>PHILIPPINES NUCLEAR RESEARCH INSTITUTE<br>COMMUNALITY AVENUE, DILIMAN, QUEZON CITY |  | PROJECT                                | OWNER                                                     | SHEET CONTENT                                                                 | PREPARED BY                                                      | RECOMMENDING ENGINEER                                                         | APPROVED BY                      | DRAWN BY            | SHEET NO. |
| ESTABLISHMENT OF (2) TWO STOREY RADIATION PROTECTION SERVICES FACILITY (C.Y. 2020)                                                                                                                                                            |  | PHILIPPINES NUCLEAR RESEARCH INSTITUTE | ELECTRICAL LIGHTING LAYOUT OF RPS RADWASTE RECEIVING AREA | ENG. RICHARD S. REAS<br>Senior Design Engineer<br>RPS RADWASTE RECEIVING AREA | KRISTINE MARIE B. ROMALLOSA<br>Engr. RPS RADWASTE RECEIVING AREA | ENG. RICHARD S. REAS<br>Senior Design Engineer<br>RPS RADWASTE RECEIVING AREA | CARLO A. ARCELLA, Ph.D.<br>Owner | DESIGNED BY<br>DATE | E-1       |



POWER LAYOUT  
SCALE NTS

|                                                                                                                                                                                                                                                |  |          |                                        |                                                          |                                                                                                      |                                                                                                        |                                                                                          |           |             |       |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|----------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------|-------------|-------|------------|
| <br>Republic of the Philippines<br>DEPARTMENT OF SCIENCE AND TECHNOLOGY<br>PHILIPPINES NUCLEAR RESEARCH INSTITUTE<br>COMMONWEALTH AVENUE, DILIMAN, QUEZON CITY |  | PROJECT: | OWNER:                                 | SHEET CONTENT:                                           | PREPARED BY:                                                                                         | RECOMMENDED BY:                                                                                        | APPROVED BY:                                                                             | DRAWN BY: | CHECKED BY: | DATE: | SHEET NO.: |
| ESTABLISHMENT OF (2) TWO STOREY RADIATION PROTECTION SERVICES FACILITY (C.Y. 2020)                                                                                                                                                             |  |          | PHILIPPINES NUCLEAR RESEARCH INSTITUTE | ELECTRICAL POWER LAYOUT OF THE RADIATION PROTECTION AREA | ENGR. ROSALINDO B. REAS<br>Senior Design Engineer<br>ENGR. ARDITO T. SINGA<br>Senior Design Engineer | KRISTINE MARIE R. ROMALLOSA<br>Senior Design Engineer<br>PREMESA B. PANGOLAN<br>Senior Design Engineer | ENGR. REYNOLDO T. SINGA<br>Senior Design Engineer<br>CARLO A. ARBILLA, Ph.D.<br>Director |           |             |       | E-2        |



Republic of the Philippines  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
PHILIPPINES NUCLEAR RESEARCH INSTITUTE  
COMMONWEALTH AVENUE, DILIMAN, QUEZON CITY

PROJECT: ESTABLISHMENT OF (2) TWO STOREY RADIATION PROTECTION SERVICES FACILITY (C.Y. 2020)

OWNER: PHILIPPINES NUCLEAR RESEARCH INSTITUTE  
ADDRESS: COMMONWEALTH AVENUE, DILIMAN, QUEZON CITY

SHEET CONTENT: ELECTRICAL MAIN POWER SUPPLY LAYOUT OF RPS RADIATION PROTECTION SERVICES FACILITY

PREPARED BY: *[Signature]*  
Engr. ROSALIND B. REAS  
Senior Design Engineer  
PHILIPPINES NUCLEAR RESEARCH INSTITUTE

RECOMMENDING ENGINEER: *[Signature]*  
KRISTINE MARIE ROMULOSA  
Engr. / RPE  
PRECLOSURE: PABO, P.D. / SOLENOID, CASTANEDA, P.D.  
Chief Engineer

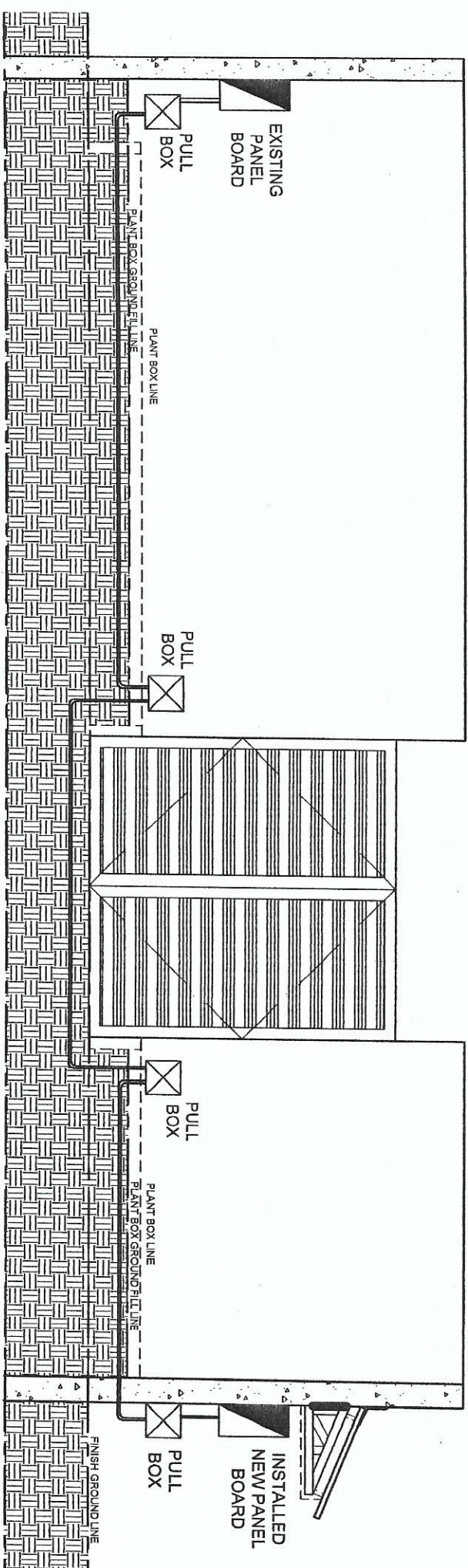
APPROVED BY: *[Signature]*  
CARLO A. ARCILLA, P.D.  
Senior Engineer

DRAWN BY: GENILADO

CHECKED BY:

DATE:

SHEET NO.: E-3

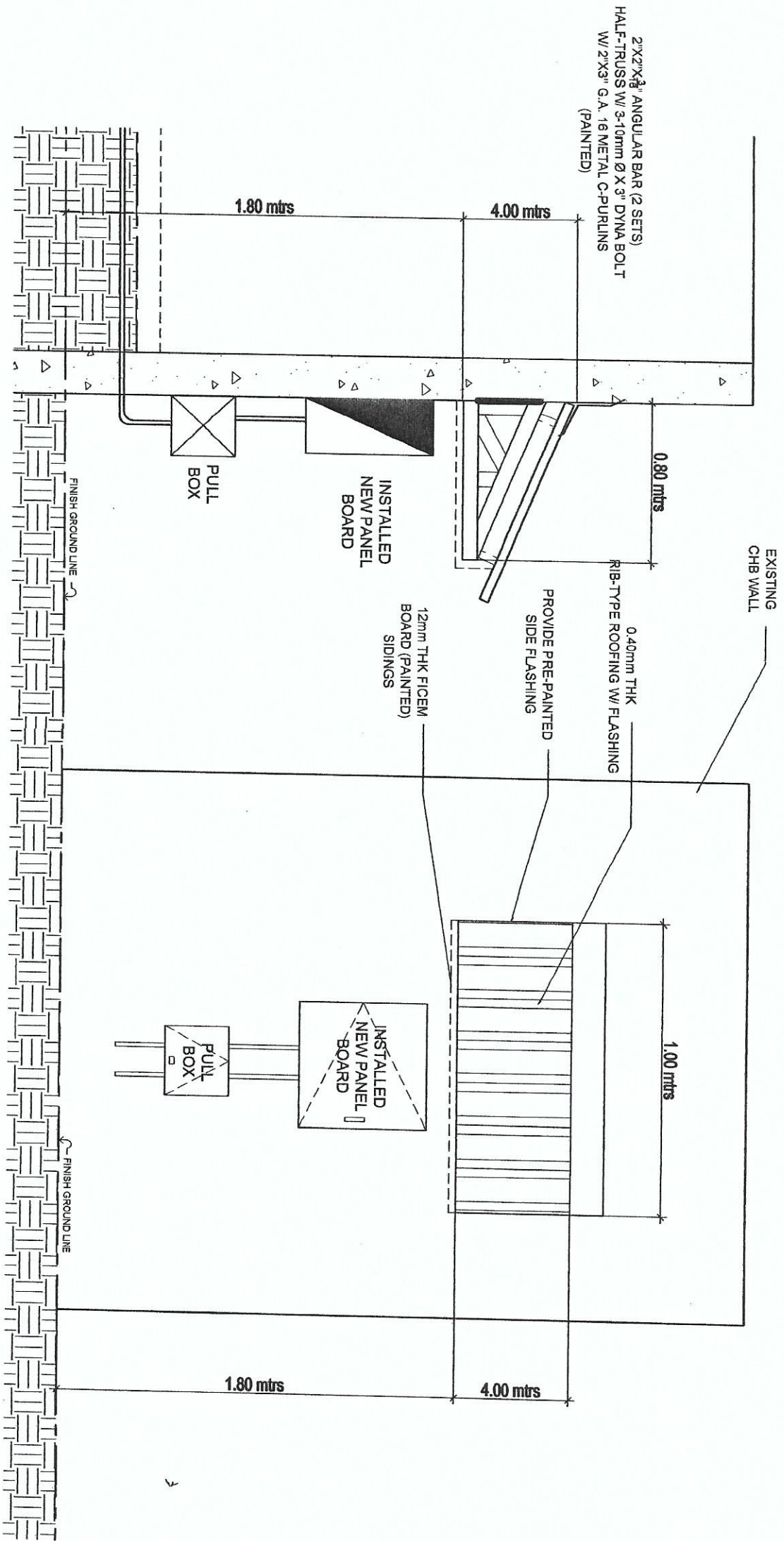


SECTION VIEW LAYOUT

SCALE

NTS

|                                                                                                                                                                                                                                                           |                                                                                                       |  |                                                            |                                                                                            |                                                                                                                                                                    |                                                                                                                             |                      |              |             |           |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------|--------------|-------------|-----------|------------|
|  <p>Republic of the Philippines<br/>DEPARTMENT OF SCIENCE AND TECHNOLOGY<br/>PHILIPPINES NUCLEAR RESEARCH INSTITUTE<br/>COMPOUND WALL, 117 AVENUE, CUBAN, QUEZON CITY</p> | <p>ESTABLISHMENT OF (2)<br/>TWO STOREY RADIATION<br/>PROTECTION SERVICES<br/>FACILITY (C.Y. 2020)</p> |  | OWNER:                                                     | PHILIPPINES NUCLEAR<br>RESEARCH INSTITUTE                                                  | SHEET CONTENT:                                                                                                                                                     | PREPARED BY:                                                                                                                | RECOMMENDING AGENCY: | APPROVED BY: | CHECKED BY: | DRAWN BY: | SHEET NO.: |
|                                                                                                                                                                                                                                                           | <p>PHILIPPINES NUCLEAR<br/>RESEARCH INSTITUTE</p>                                                     |  | <p>ELECTRICAL<br/>POWER SUPPLY<br/>SECTION VIEW/LAYOUT</p> | <p>ENGINEER: E. ROSARIO B. REYES<br/>ENGR. RICHARD B. SALU<br/>ENGR. JOSEPH M. MONTANO</p> | <p>KRISTINE M. DEL ROSARIO<br/>ENGR. RICHARD B. SALU<br/>PRECEDING A.D. SOLENOID S. CASTANEDA, Ph. D.<br/>Checked by: E. ROSARIO B. REYES<br/>Drawing Engineer</p> | <p>ENGR. REYATO T. BANAGA<br/>ENGR. RICHARD B. SALU<br/>CARLO A. ARQUIA, Ph. D.<br/>Checked by: CARLO A. ARQUIA, Ph. D.</p> | <p>CHECKED BY:</p>   | <p>DATE:</p> | <p>E-4</p>  |           |            |



**SIDE VIEW**  
SCALE NTS

**FRONT VIEW**  
SCALE NTS



Republic of the Philippines  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
PHILIPPINES NUCLEAR RESEARCH INSTITUTE  
COMMONWEALTH AVENUE, DILIMAN, QUEZON CITY

|                                                                                    |                                        |                                                                                      |                                                                                                     |                                                                                              |                                                                                                   |                                                 |           |
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| PROJECT                                                                            | OWNER                                  | SHEET CONTENT                                                                        | PREPARED BY                                                                                         | RECOMMENDING AUTHORITY                                                                       | APPROVED BY                                                                                       | DRAWN BY / REVISED                              | SHEET NO. |
| ESTABLISHMENT OF (2) TWO STOREY RADIATION PROTECTION SERVICES FACILITY (C.Y. 2020) | PHILIPPINES NUCLEAR RESEARCH INSTITUTE | DETAILS OF ROOF SHED FOR NEW INSTALLED PANEL BOARD OF RPS RADIOACTIVE RECEIVING AREA | ENG. ROSALINDA REJAS<br>Chief Structural Engineer<br>Struct. Section, Radiation Protection Division | KRISTINE LARRO RIMALLOSA<br>Engr. (Struct. Engg.)<br>PRECEDIA B. PABLOA Ph.D.<br>Chief Engg. | PT. BENITO T. BANGA<br>Engr. (Struct. Engg.)<br>SOLEADO S. CASTABEDA Ph.D.<br>Chief Struct. Engr. | CARLO A. ARCILLA Ph.D.<br>Engr. (Struct. Engg.) | E-5       |

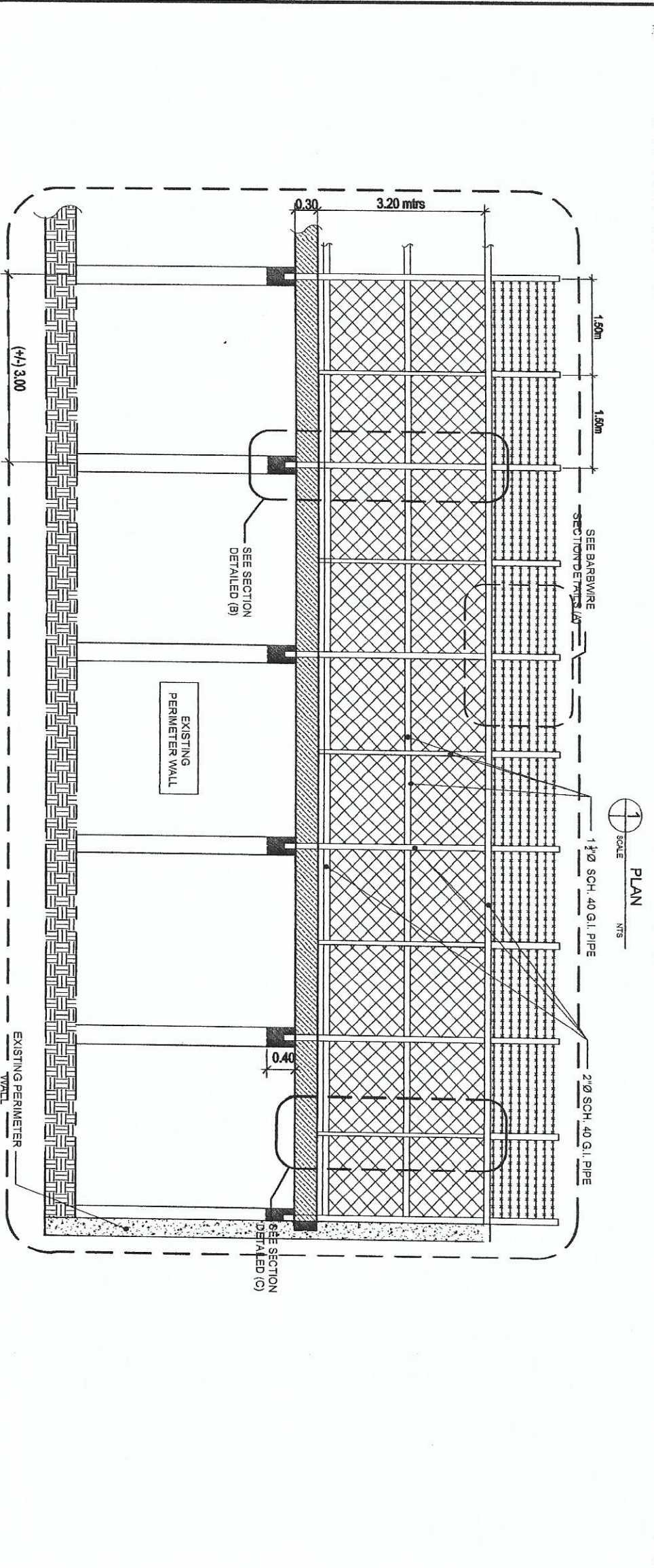
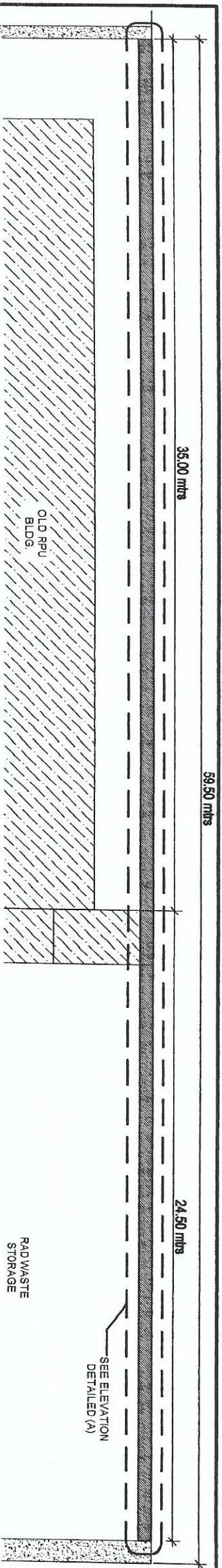
## LOAD SCHEDULE

## PANELBOARD, RPS5 RWMFRA

| PANELBOARD, RPSS RWMFRA |       |                                                         |          |                                                                                              |       |       |                 |      |      |                                                                            |
|-------------------------|-------|---------------------------------------------------------|----------|----------------------------------------------------------------------------------------------|-------|-------|-----------------|------|------|----------------------------------------------------------------------------|
| CIRCUIT NUMBER          | VOLTS | LOAD DESCRIPTION                                        | Watts/VA | PHASE LOADING                                                                                |       |       | CIRCUIT BREAKER |      |      | HOMERUN/WIRE SIZE                                                          |
|                         |       |                                                         |          | ØAB                                                                                          | ØBC   | ØCA   | POLE            | KAIC | TRIP |                                                                            |
| 1                       | 230   | 10 Fluorescent, Double, 36W, 4 Pinlights, 25W           | 820.00   | 3.56                                                                                         |       |       | 2               | 22   | 15   | 2-3.5 mm <sup>2</sup> , 1-2.0 mm <sup>2</sup> THHN wire in 15mmØ uPVC Pipe |
| 2                       | 230   | 3 Duplex Convenience Outlets, 2 sets Ceiling Fans       | 1280.00  |                                                                                              | 5.56  |       | 2               | 22   | 20   | 2-5.5 mm <sup>2</sup> , 1-2.0 mm <sup>2</sup> THHN wire in 15mmØ uPVC Pipe |
| 3                       | 230   | roll-up door                                            | 250.00   |                                                                                              |       | 1.08  | 2               | 22   | 15   | 2-5.5 mm <sup>2</sup> , 1-2.0 mm <sup>2</sup> THHN wire in 15mmØ uPVC Pipe |
| 4                       | 230   | spare                                                   | 4,780.00 | 12.00                                                                                        | 12.00 | 12.00 | 3               | 22   | 30   |                                                                            |
| 5                       | 230   | spare                                                   | 3,450.00 |                                                                                              | 15.00 |       | 2               | 22   | 30   |                                                                            |
| 6                       | 230   | spare                                                   | 1,840.00 |                                                                                              |       | 8.00  | 2               | 22   | 20   |                                                                            |
| 7                       | 230   | CCTV Camera Power Supply                                | 1,840.00 | 5.00                                                                                         |       |       | 3               | 22   | 20   | 2-5.5 mm <sup>2</sup> , 1-2.0 mm <sup>2</sup> THHN wire in 20mmØ RSC Pipe  |
| 8                       | 230   | Old RPSS Bldg. Biometrics Door Access/Buzzer/Door Chime | 1,150.00 |                                                                                              | 5.00  |       | 2               | 22   | 15   | 2-5.5 mm <sup>2</sup> , 1-2.0 mm <sup>2</sup> THHN wire in 15mmØ uPVC Pipe |
| 9                       | 230   | spare                                                   | 1,840.00 |                                                                                              |       | 8.00  | 3               | 22   | 20   |                                                                            |
| 10                      | 230   | spare                                                   | 1,840.00 | 8.00                                                                                         |       |       | 3               | 22   | 20   |                                                                            |
| COMPUTATION:            |       |                                                         |          | 28.56                                                                                        | 37.56 | 29.08 |                 |      |      |                                                                            |
| MAIN FEEDER             |       |                                                         |          | USE: 3 - 14 mm <sup>2</sup> , 1 - 5.5mm <sup>2</sup> THHN CABLE on 25 mm. Diameter uPVC Pipe |       |       |                 |      |      |                                                                            |
| PROTECTION:             |       |                                                         |          | USE: 70AT, 100AF, 3P, 230V, 25 KAIC Industrial Type Circuit Breaker                          |       |       |                 |      |      |                                                                            |

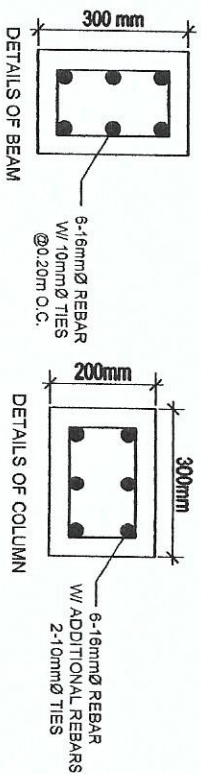
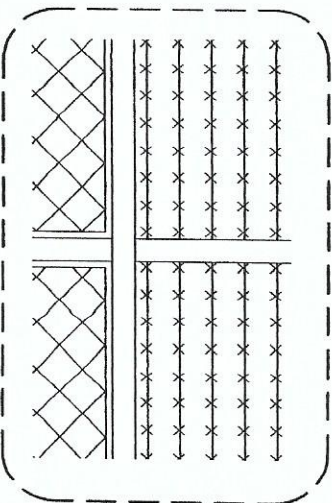
$I_L = [(37.56)(1.732) + 25\% (15)](80\% D.F.) = 68.80 \times 0.8$   
 $I_L = 55.04 \text{ amperes}$



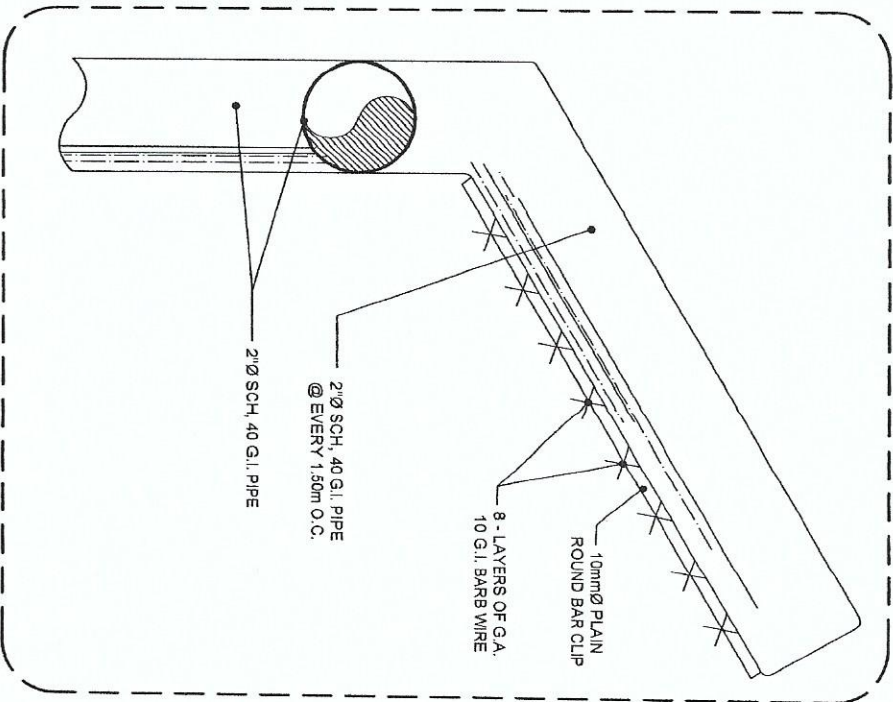


2 SECTION DETAILED ELEVATION (A)  
SCALE NTS

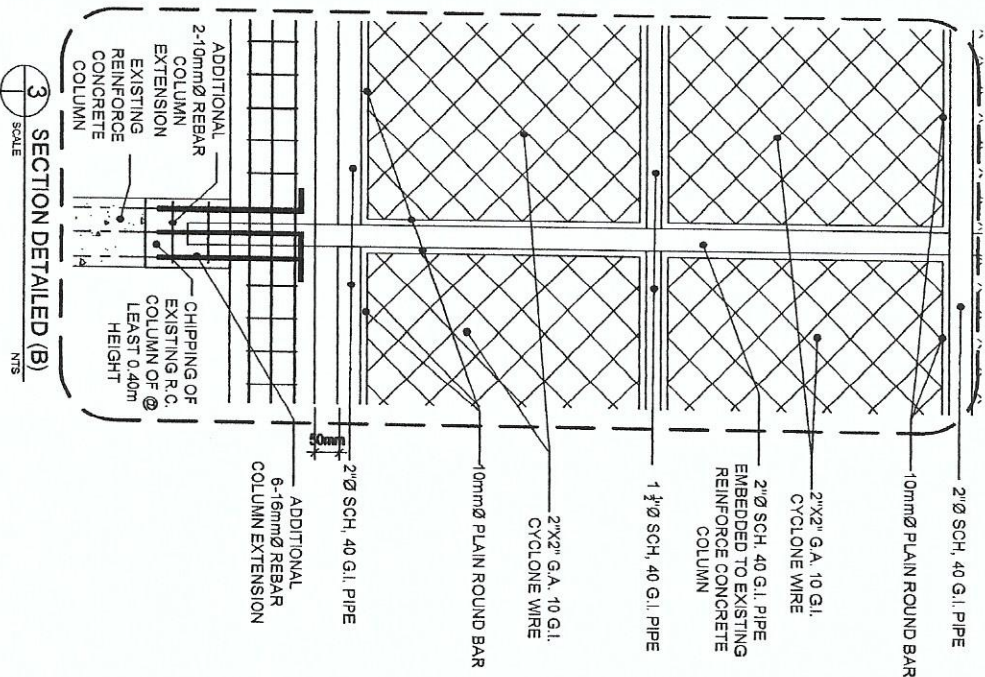
|                                                                                                                                                                                                                                                                     |  |                                                                                                         |  |                                                    |  |                                                                                |  |                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                 |  |                                                                                                                                           |  |                   |  |             |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|--|--------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|--|-------------|--|
| <div></div> <div>Republic of the Philippines<br/>DEPARTMENT OF SCIENCE AND TECHNOLOGY<br/>PHILIPPINE NUCLEAR RESEARCH INSTITUTE<br/>COMMONWEALTH AVENUE, DILIMAN, QUEZON CITY</div> |  | PROJECT:<br>ESTABLISHMENT OF (2)<br>TWO STOREY RADIATION<br>PROTECTION SERVICES<br>FACILITY (C.Y. 2020) |  | OWNER:<br>PHILIPPINE NUCLEAR<br>RESEARCH INSTITUTE |  | SHEET CONTENT:<br>UPGRADING OF<br>PERIMETER WALL<br>DETAIL OF BEAM &<br>COLUMN |  | PREPARED BY:<br><br>ENGR. ROSA ANO B. REAS<br>Engr. ROSA ANO B. REAS<br>Engr. ARTURO S. REAS<br>Engr. ROSA ANO B. REAS |  | RECOMMENDING ENGINEER:<br><br>KRISTINE ALBERT ROMALLOS<br>Engr. KRISTINE ALBERT ROMALLOS<br>Engr. KRISTINE ALBERT ROMALLOS<br>Engr. KRISTINE ALBERT ROMALLOS |  | APPROVED BY:<br><br>CARLO A. ARILLA, Ph.D.<br>Director |  | DRAWN BY: GENALDO |  | SHEET NO. 1 |  |
|                                                                                                                                                                                                                                                                     |  |                                                                                                         |  |                                                    |  |                                                                                |  |                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                 |  |                                                                                                                                           |  |                   |  |             |  |
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|                                                                                                                                                                                                                                                                     |  |                                                                                                         |  |                                                    |  |                                                                                |  |                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                 |  |                                                                                                                                           |  |                   |  |             |  |
|                                                                                                                                                                                                                                                                     |  |                                                                                                         |  |                                                    |  |                                                                                |  |                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                 |  |                                                                                                                                           |  |                   |  |             |  |
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|                                                                                                                                                                                                                                                                     |  |                                                                                                         |  |                                                    |  |                                                                                |  |                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                 |  |                                                                                                                                           |  |                   |  |             |  |
|                                                                                                                                                                                                                                                                     |  |                                                                                                         |  |                                                    |  |                                                                                |  |                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                 |  |                                                                                                                                           |  |                   |  |             |  |
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|                                                                                                                                                                                                                                                                     |  |                                                                                                         |  |                                                    |  |                                                                                |  |                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                 |  |                                                                                                                                           |  |                   |  |             |  |
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|                                                                                                                                                                                                                                                                     |  |                                                                                                         |  |                                                    |  |                                                                                |  |                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                 |  |                                                                                                                                           |  |                   |  |             |  |
|                                                                                                                                                                                                                                                                     |  |                                                                                                         |  |                                                    |  |                                                                                |  |                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                 |  |                                                                                                                                           |  |                   |  |             |  |
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|                                                                                                                                                                                                                                                                     |  |                                                                                                         |  |                                                    |  |                                                                                |  |                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                 |  |                                                                                                                                           |  |                   |  |             |  |
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|                                                                                                                                                                                                                                                                     |  |                                                                                                         |  |                                                    |  |                                                                                |  |                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                 |  |                                                                                                                                           |  |                   |  |             |  |



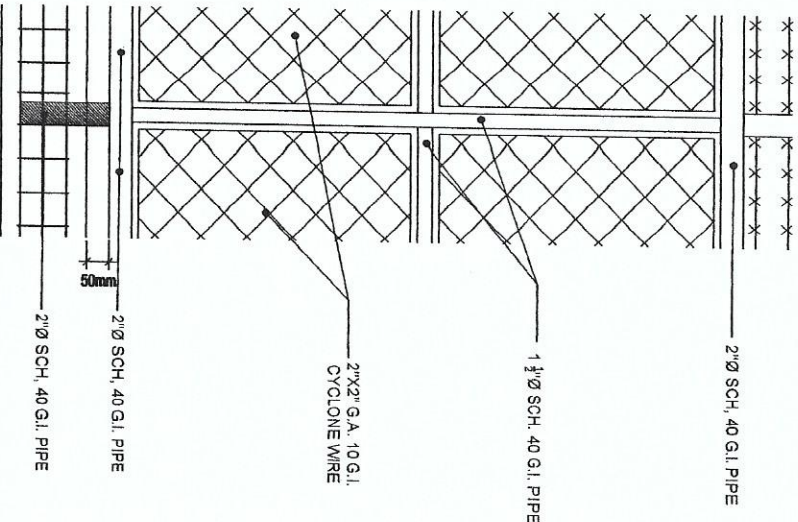
1 DETAILS OF BEAMS & COLUMN  
SCALE  
NTS



2 DETAILS OF BARBIRE INSTALLATION  
SCALE  
NTS



3 SECTION DETAILED (B)  
SCALE  
NTS



4 SECTION DETAILED (C)  
SCALE  
NTS



Republic of the Philippines  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
PHILIPPINE NUCLEAR RESEARCH INSTITUTE  
COMMONWEALTH AVENUE, BUKAY, CAGAYAN CITY

PROJECT: ESTABLISHMENT OF (2)  
TWO STOREY RADIATION  
PROTECTION SERVICES  
FACILITY (C.Y. 2020)

OWNER: PHILIPPINE NUCLEAR  
RESEARCH INSTITUTE

ADDRESS: COMMONWEALTH AVENUE, BUKAY, CAGAYAN CITY

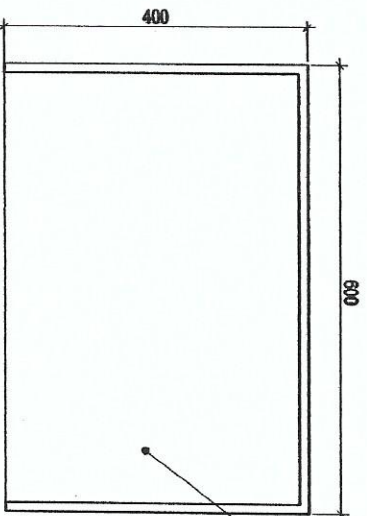
SHEET CONTENT: UPGRADING OF  
PERIMETER WALL  
DETAIL OF BEAM &  
COLUMN

PREPARED BY: ENGR. ROSALIND B. REYES  
Senior Structural Engineer  
Engr. ARTURO T. SANTI  
Senior Structural Engineer

RECOMMENDED BY: KRISTINE MARIE D. ROMALLUSA  
Structural Engineer  
PRECIOUS B. BARON, Ph.D.  
Civil Engineer

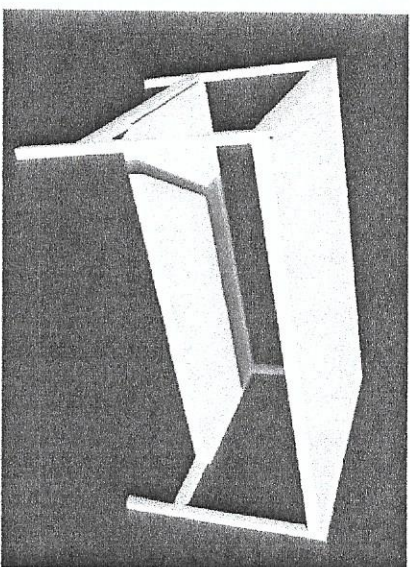
ENGR. REMON T. BARRICA  
Structural Engineer  
CARLOS A. ARCELLA, Ph.D.  
Director

CHECKED BY: DATE: PAGE NO.: PROJ. NO.:

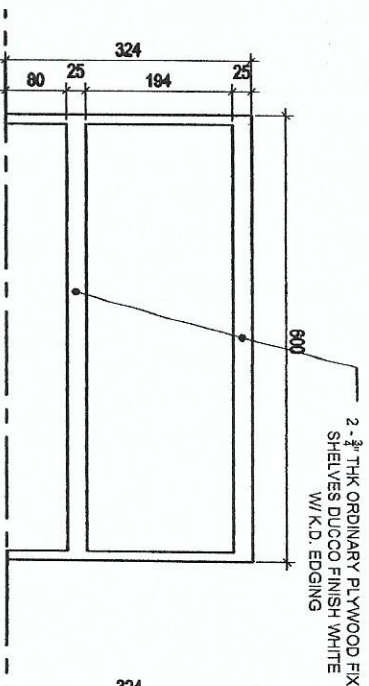


HIGH PRESSURE LAMINATED (HPL)  
TOP FINISH (TOP & BOTTOM)

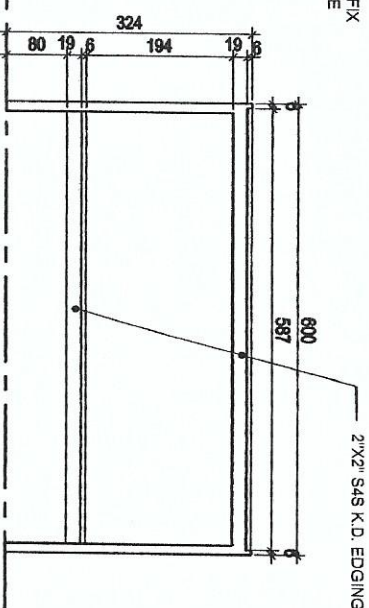
1 TOP VIEW  
SCALE 1:10 MTS



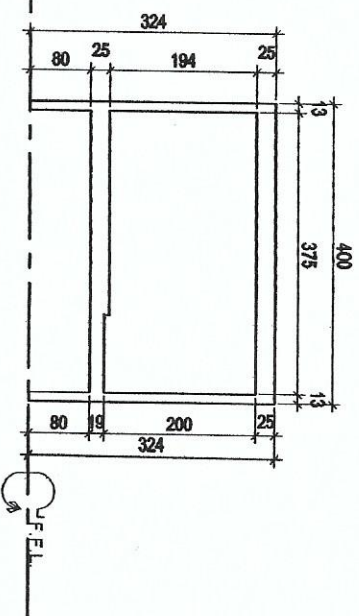
5 PERSPECTIVE VIEW  
SCALE NTS



2 FRONT VIEW  
SCALE 1:10 MTS



3 REAR VIEW  
SCALE 1:10 MTS



4 TYPICAL SIDE VIEW  
SCALE 1:10 MTS



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RESEARCH INSTITUTE  
ADDRESS: COMMONWEALTH AVENUE, QUAPOA, QUEZON CITY

SHEET CONTENT:  
DETAIL OF  
WOODEN  
SIDE TABLE

PREPARED BY:  
ENR. ROMANO B. REAS  
Senior Architect/Designer  
ENR. ARTURO A. SALLA  
Senior Service Specialist

RECOMMENDED BY:  
KRISTINE MARIE J. ROMALLOSA  
Engr. RANJOTI RAMAGA  
FREYDUSA B. FERRONCER, Dr.  
SOLENDO S. CASTANEDA, Ph.D.  
Chief Architect  
Chief Designer

APPROVED BY:  
CARLO A. ARCILLA, Ph.D.  
Chief Designer

DRAWN BY: GENALDO  
CHECKED BY:  
DATE:  
PROJ. NO.:  
SHEET NO.: