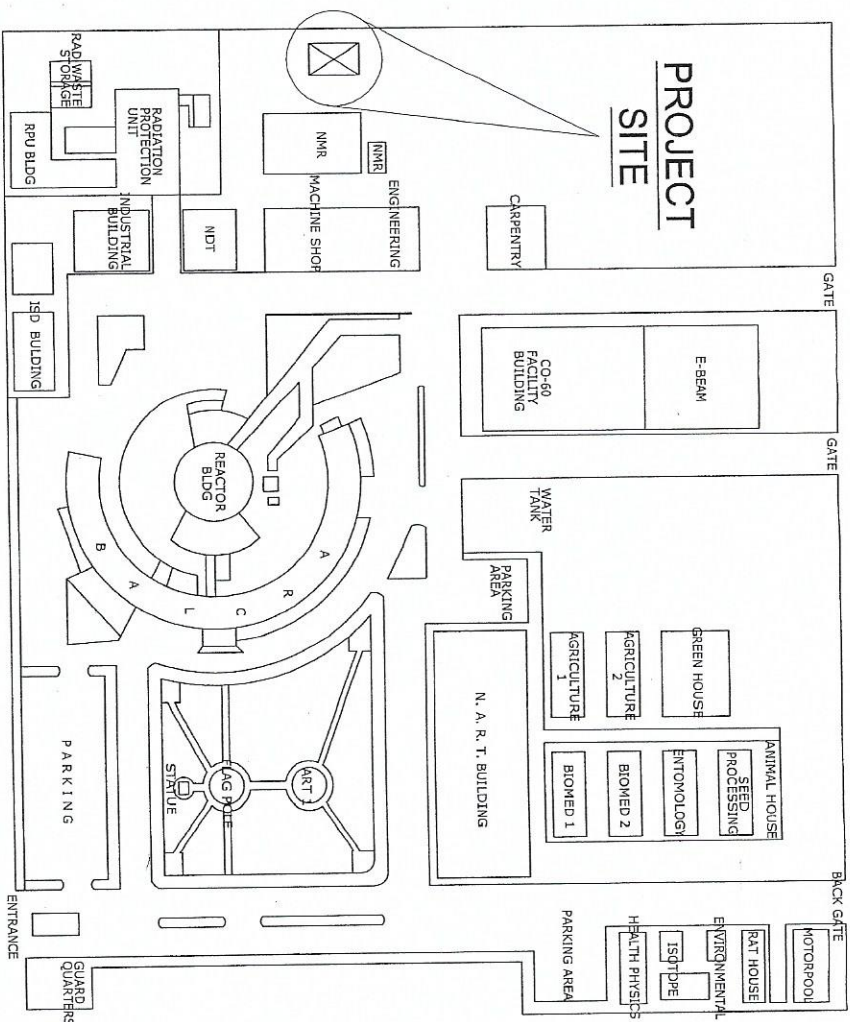
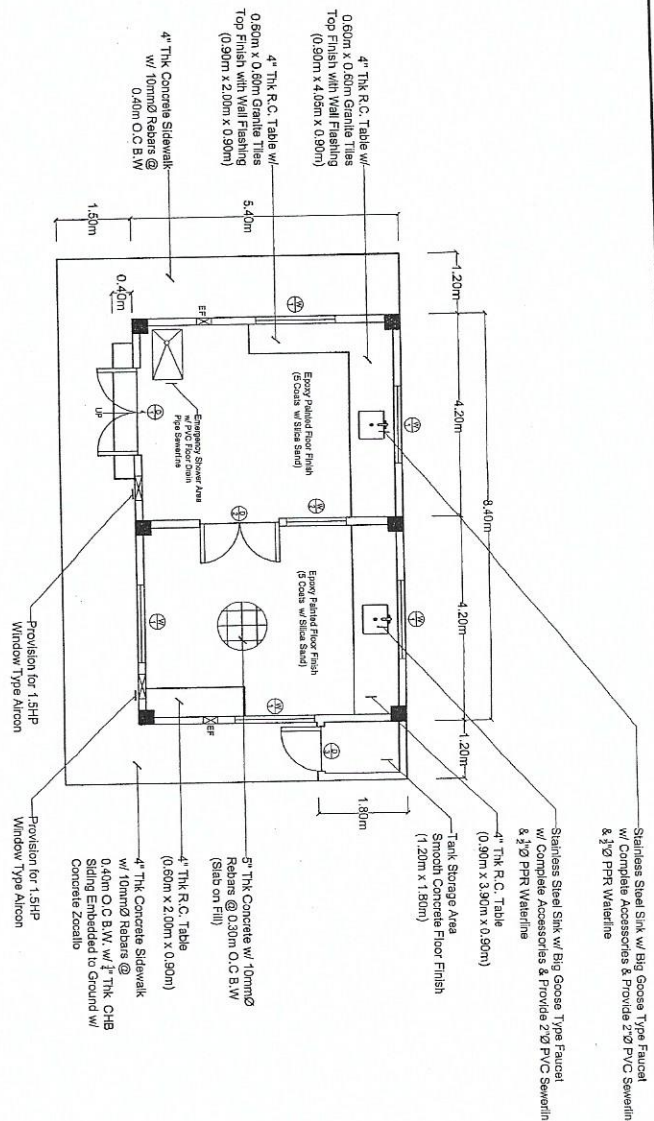


GENERAL NOTES

1. Final dimensions according to site measurement. All dimensions in meters.
2. Contractor shall submit shop drawings and / or samples for PNRI Construction Committee selection and approval, when applicable.
3. All dimensions shall be verified on site before commencing work. Any discrepancies occurring between PNRI Construction Committee and other consultant's drawings and site conditions shall be referred to PNRI Construction Committee and/or respective consultants before commencement of such work.
4. Any variation, change order, or extras involved shall be referred to the designer before any such variation, change order or extra be authorized.
5. Subsequently, any variation, change order, or extras in the specifications, whether materials or finish, raised by the client to the contractor/workers shall be referred to PNRI Construction Committee first before any such variation or change order be authorized.
6. Any specification or dimension in the drawings that do not comply with authority requirements or industrial standards shall be reported to PNRI Construction Committee and respective consultants.
7. Contractor shall work from approved drawings only. Clarifications shall be directed to PNRI Construction Committee and respective consultant.
8. Written dimensions in these drawings shall have precedence over scaled dimensions. The respective contractors shall verify and be responsible for all dimensions and conditions on the job. PNRI Construction Committee must be notified immediately on any variations from the dimensions and conditions shown in these drawings.

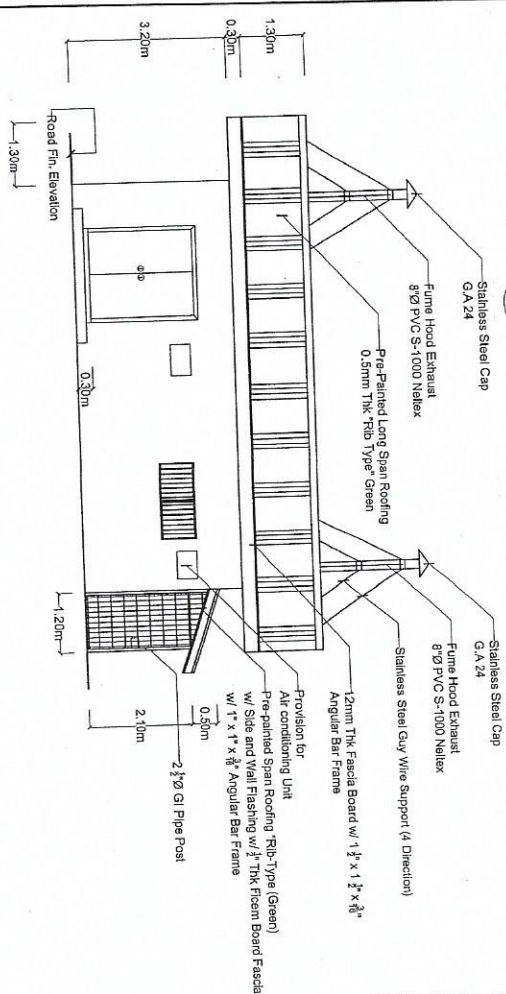


 Republic of the Philippines DEPARTMENT OF SCIENCE AND TECHNOLOGY PHILIPPINE NUCLEAR RESEARCH INSTITUTE	PROJECT:	OWNER:	SHEET CONTENT:	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DRAWN BY: SHEET NO.
UPGRADING OF NMR BUILDING (CY 2018)	PHILIPPINE NUCLEAR RESEARCH INSTITUTE (PNRI)	General Notes Project Site	Engr. ROSALINDO B. REJAS Vice Chairperson, Committee on Construction Engr. GUSEPPE FILAMON O. DEAN Vice Chairperson, Committee on Construction	ROLANDO K. REYES Engr. Supervisor, NMRIS LUCILLE V. ARAO, Ph.D. Chief, ARD GRACIELA DE LEON CUEVAS, DPA Chief, FAD SOLEDAD S. CASTANEDA, Ph.D. Deputy Director	CARLO A. ARCILA, Ph.D. Director	L. LALO J. GUILLERMO R. REJAS G. DEAN	C-1 7



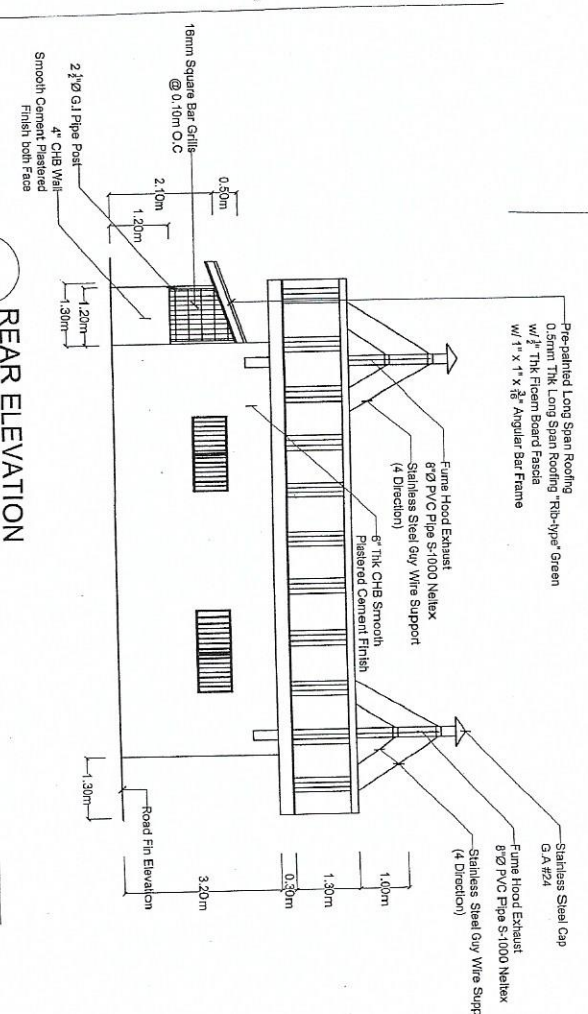
FLOOR PLAN (Mercury Lab.)

SCALE 1:100MNTS



FRONT ELEVATION

SCALE 1:100MNTS



REAR ELEVATION

SCALE 1:100MNTS



PROJECT: UPGRADING OF NMR BUILDING (CY 2018)

OWNER: PHILIPPINE NUCLEAR RESEARCH INSTITUTE (PNRI)

SHEET CONTENT: Floor Plan Front Elevation Rear Elevation

PREPARED BY: Engr. ROSALINDO B. REYES, Vice Chairman, Committee on Construction

Engr. GILBERTO P. DEAN, Vice Chairman

RECOMMENDING APPROVAL: ROLANDO X. REYES, Engr.-User/Head, NMRs

GRACETA DE LEON QUEVAS, DPA, Chief, FAD

APPROVED BY: CARLO A. ARCILLA, Ph.D., Director

DRAWN BY: SHEET N C-2

L. LALO, J. GUILLERMO, R. REYES, G. DEAN



PHILIPPINE NUCLEAR
RESEARCH INSTITUTE
(PNRI)

OWNER:

Right Side Elevation
Left Side Elevation
Ceiling Plan
Foundation Plan

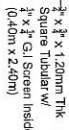
Engr. ROSALINDO B. REJAS
Vice Chairperson,
Committee on Construction

ROLANDO V. REYES
End-User/Head, NMIRS

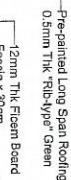
CARLO A. ARCILLA, Ph.D.
Director

3

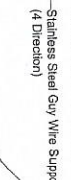
SCALE 1:100MTS



SCALE 1:100MTS

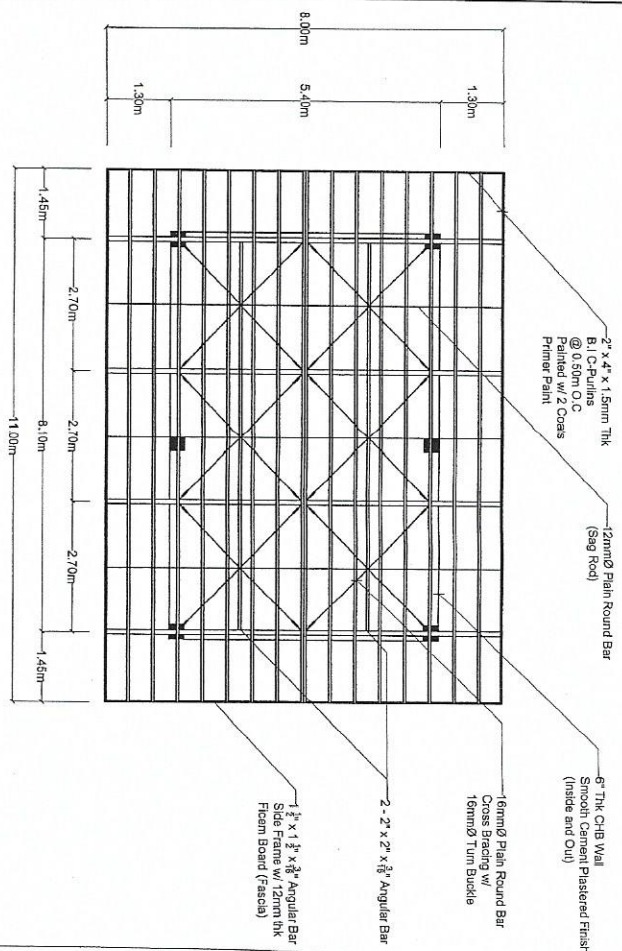


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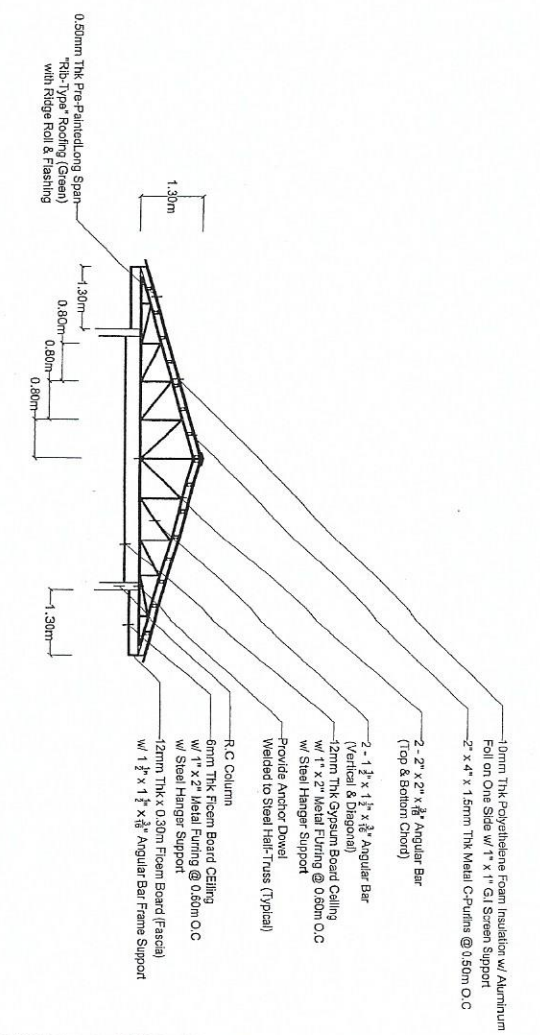
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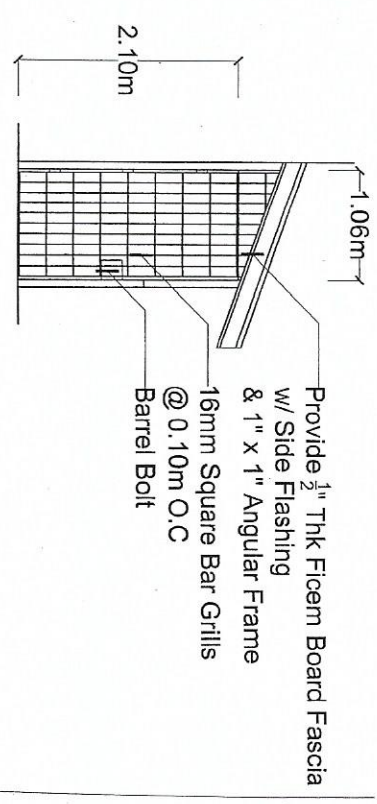
ROOF FRAMING PLAN

SCALE 1:100M/TS

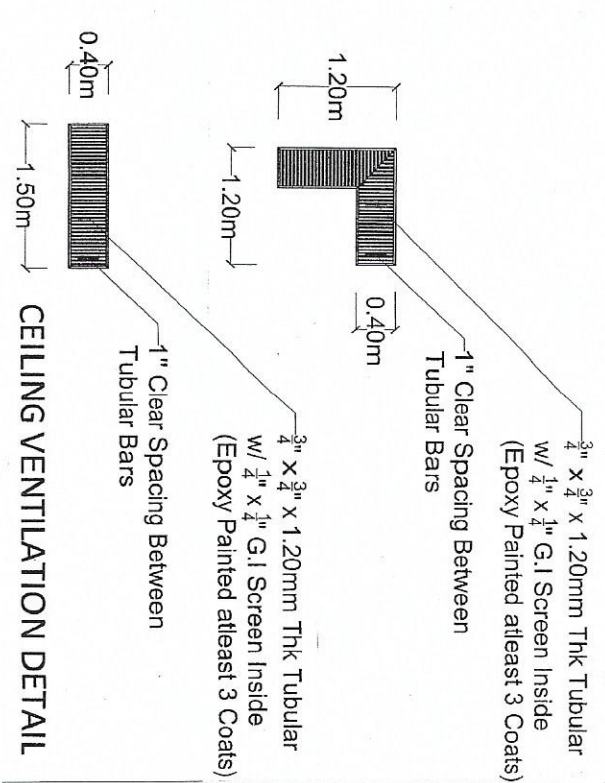


DETAIL OF TRUSS

SCALE 1:100M/TS

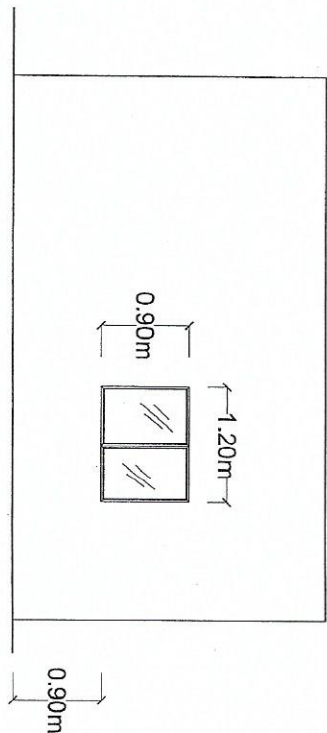
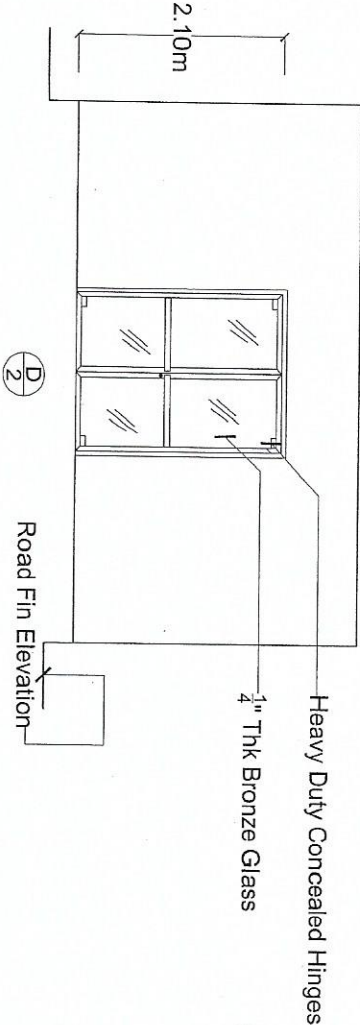
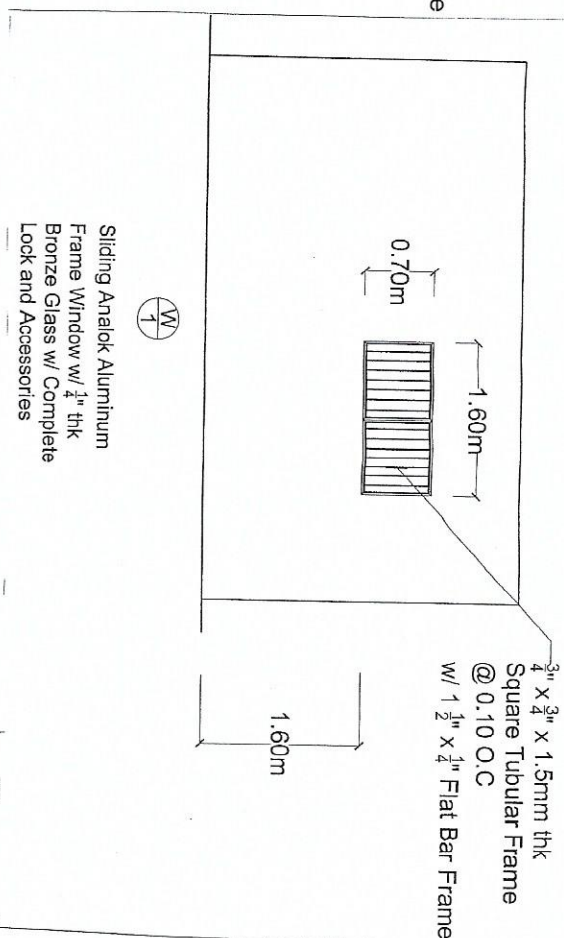
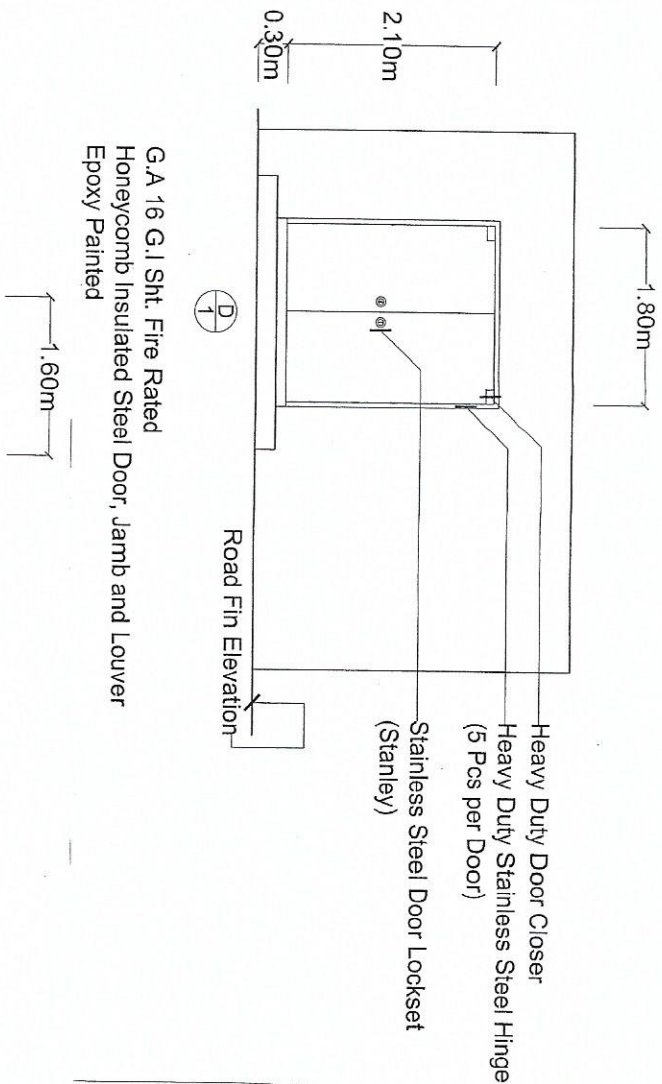


Metal Grill Door with Barrel Bolt
16mm Square Bar Grills @ 0.10m O.C.



CEILING VENTILATION DETAIL

 Republic of the Philippines DEPARTMENT OF SCIENCE AND TECHNOLOGY PHILIPPINE NUCLEAR RESEARCH INSTITUTE	PROJECT: UPGRADING OF NMR BUILDING (CY 2018)	OWNER: PHILIPPINE NUCLEAR RESEARCH INSTITUTE (PNRI)	SHEET CONTENT: Roof Framing Plan Detail of Truss Ceiling Ventilation Detail	PREPARED BY: Engr. ROSALINDO B. RELAS Vice Chairperson, Committee on Construction Engr. GILSEPPE FILANO O. DEAN Vice Chairperson	RECOMMENDING APPROVAL: ROLANDO V. REYES End-User/Head, NMRS GRACETA DE LEON CUEVAS, DPA Chief, PND	APPROVED BY: LUCILLE V. ABAD, Ph.D. Chief, ARD CARLO A. ARCILLA, Ph.D. Director	DRAWN BY: SHEET NO L. LALIO J. GUILLERMO R. RELAS G. DEAN C-4 7
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Analok Aluminum Glass Door
Frame and Jamb w/ Heavy Duty
Concealed Hinges and Lock Set
(Locally Made)

DOOR DETAILS

WINDOW DETAILS

 Republic of the Philippines DEPARTMENT OF SCIENCE AND TECHNOLOGY PHILIPPINE NUCLEAR RESEARCH INSTITUTE	PROJECT: UPGRADING OF NMR BUILDING (CY 2018) OWNER: PHILIPPINE NUCLEAR RESEARCH INSTITUTE (PNRI)	SHEET CONTENT: Door Details Window Details	PREPARED BY: Engr. ROSALINDO B. ARELAS Vice Chairperson, Committee on Construction Engr. GUSEPPE FILAM O. DEAN Vice Chairperson, Committee on Construction	RECOMMENDING APPROVAL: ROLANDO B. REVES Engr. Rolando B. Revés End-User/Head NMRIS GRACETA DE LEON CUEVAS, DPA Chief, FAD	APPROVED BY: CARLO A. ARCILLA, Ph.D. Director	DRAWN BY: SHEET NO L. LAIO J. GUILLERMO R. REJAS G. DEAN C-5 7
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Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
PHILIPPINE NUCLEAR RESEARCH INSTITUTE

PROJECT: UPGRADING
OF NMR BUILDING
(CY 2018)

OWNER: PHILIPPINE NUCLEAR
RESEARCH INSTITUTE
(PNRI)

SHEET CONTENT:
Concreting of Open Space
Tie Beam Detail
Foundation Detail

PREPARED BY:
Engr. ROSALINDO B. REJAS
Vice Chairperson,
Committee on Construction
Engr. GUSEPPE FILAM O. DEAN
Vice Chairperson,

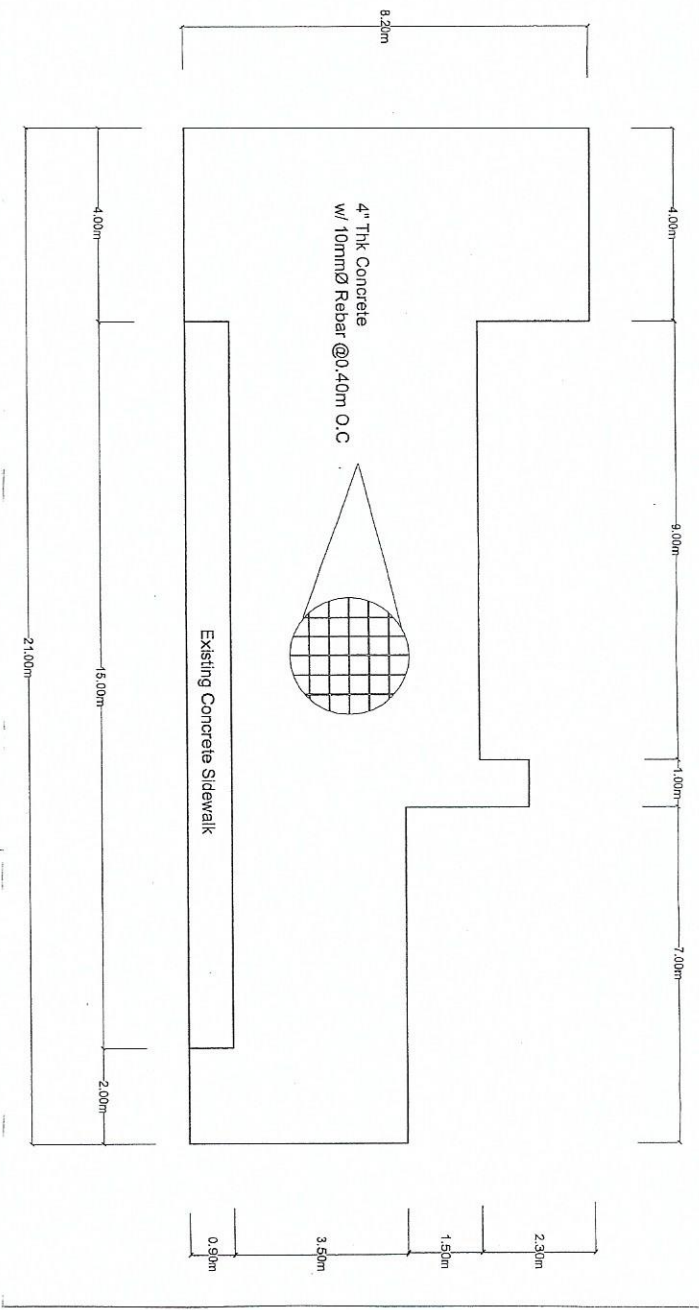
RECOMMENDING APPROVAL:
ROLANDO V. REYES
Engr. in Charge, NMRIS
GRACETA DE LEON CUEVAS, CPA
Chief, FAD

APPROVED BY:
CARLO A. ARCILLA, Ph.D.
Director

DRAWN BY: L. LALLO
J. GUILLERMO
R. REJAS
G. DEAN

C-6

7

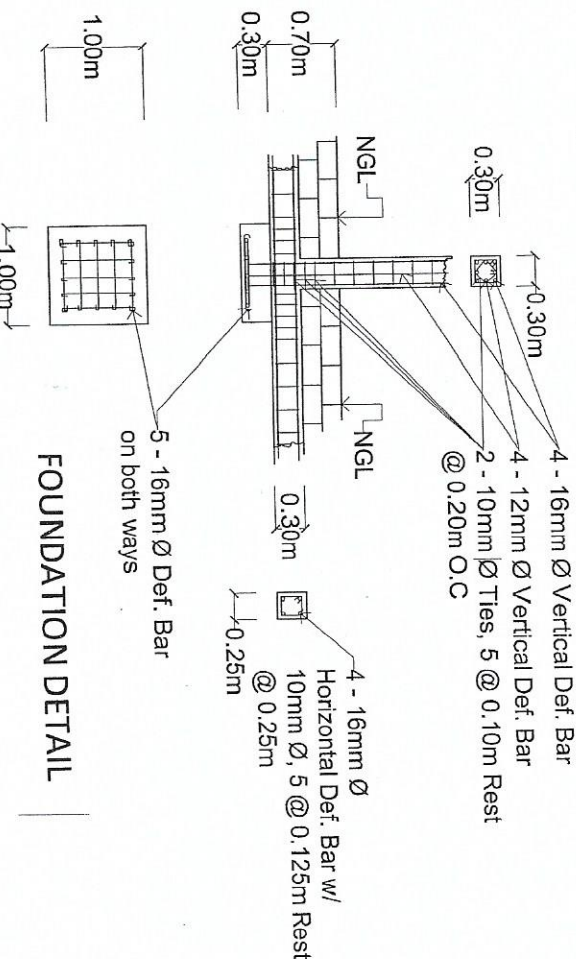


CONCRETING OF OPEN SPACE

SCALE 1:100MTS

0.30m
0.20m
4-16mmØ Horizontal Continuous Rebars
w/ 10mmØ Ties @ 0.20m O.C.

TIE BEAM DETAIL



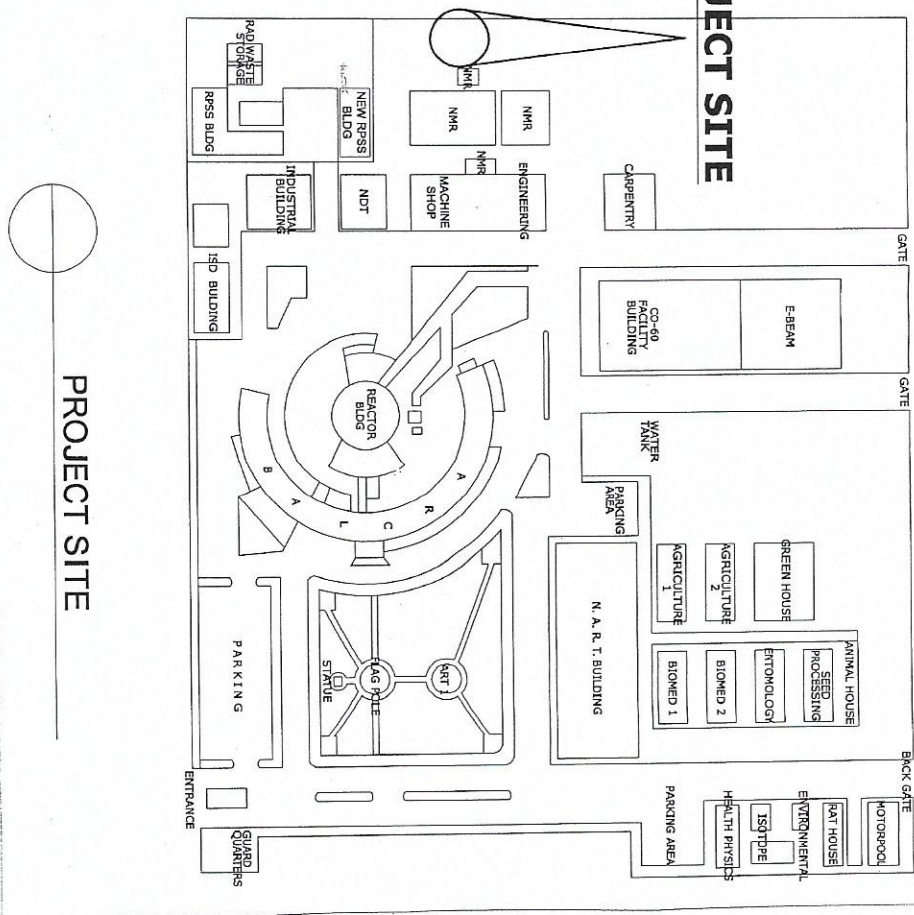
FOUNDATION DETAIL

NOT TO SCALE

GENERAL NOTES:

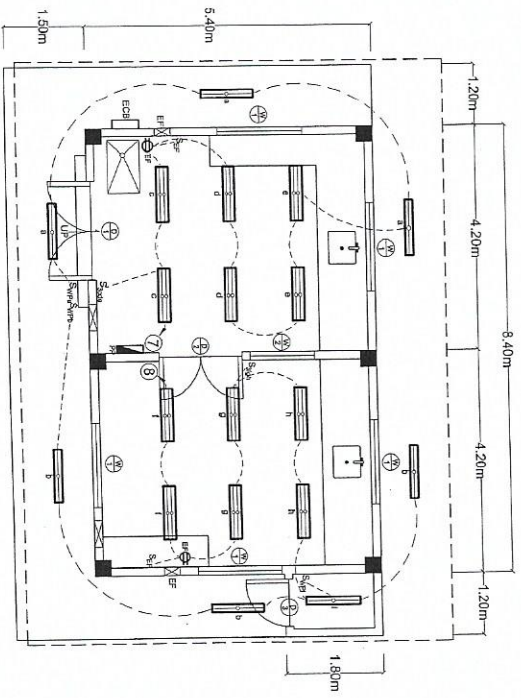
1. All electrical works herein shall be done in accordance with the latest edition of the Philippine Electrical Code (P.E.C.)
2. All materials shall be new and of approved type for the location intended.
3. Unless otherwise specified in the plan, the minimum size of wire and conduit to be used shall be 3.5 mm² THHN/THWN and 15 mm dia., (½"), respectively.
4. All conduits for lighting shall be RSC except for conduits embedded on concrete which shall be in uPVC. Conduits for convenience outlets and special purpose outlets auxiliary outlets shall be uPVC.
5. All convenience unit outlets shall be tandem-type, 240 volts and of grounding type.
6. All wiring devices shall be rated at 240 Volts and UL listed.
7. Pullboxes may be installed if necessary although not indicated in the plan.
8. All works shall be done in a neat and workmanlike manner and parallel or perpendicular to the building lines.
9. All works shall be done using standard tools/power tools, equipment, methods and good engineering practices. Completed works shall be ready for operation.
10. All electrical works shall be done under the immediate supervision of a Registered Electrical Engineer or a Registered Master Electrician.
11. Mounting heights:
 - a. Switches - 140 cm (at center)
 - b. Convenience outlet - 30 cm (at center)
 - c. Panelboard - 180 cm (on top)
 - d. Pullbox - for verification
12. Color coding of wires:
 - Black - line 1
 - Red - line 2
 - Blue - line 3
 - Green - ground

PROJECT SITE



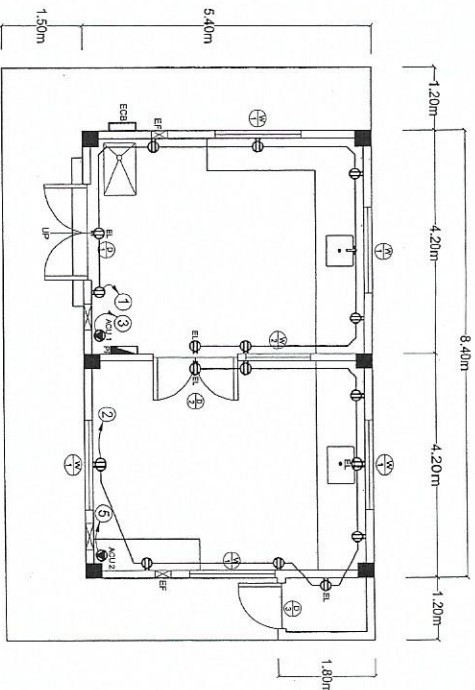
PROJECT SITE

 Republic of the Philippines DEPARTMENT OF SCIENCE AND TECHNOLOGY PHILIPPINE NUCLEAR RESEARCH INSTITUTE	PROJECT: UPGRADING OF NMR BUILDING (CY 2018)	OWNER: PHILIPPINE NUCLEAR RESEARCH INSTITUTE (PNRI)	SHEET CONTENT: General Notes Project Site	PREPARED BY: Engr. ROSALINDO B. REJAS Vice Chairperson, Committee on Construction Engr. GILBERTO P. ALMODOVAR Vice Chairperson, Committee on Construction	RECOMMENDING APPROVAL: ROLANDO Y. REYES Engr.-User/Supd./NIRS GRACETA DE LEON CUEVAS, DPA Chief, RAD LUCILLE V. ABAD, Ph.D. Chief, AFD SOLEDAD S. CASTAÑEDA, Ph.D. Deputy Director	APPROVED BY: CARLO A. ARCILLA, Ph.D. Director	DRAWN BY: L. LALLO J. GUILLERMO R. REJAS G. DEAN
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LIGHTING LAYOUT

SCALE 1:100MTS



POWER LAYOUT

SCALE 1:100MTS



Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
PHILIPPINE NUCLEAR RESEARCH INSTITUTE

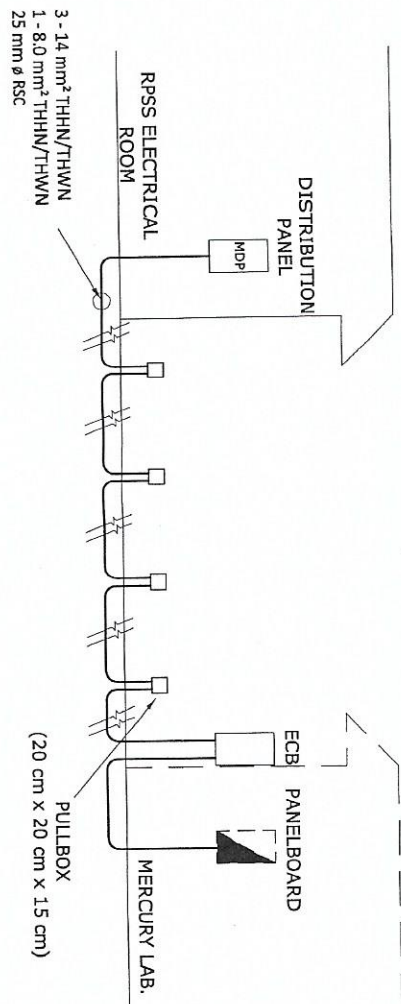
PROJECT: UPGRAADING OF NMR BUILDING (CY 2016)
OWNER: PHILIPPINE NUCLEAR RESEARCH INSTITUTE (PNRI)
SHEET CONTENT: Lighting Layout
Power Layout

PREPARED BY: Engr. ROSALINDO B. REJAS
Vice Chairperson,
Committee on Construction
Engr. GUSEPPE PLAM O. DEAN
Vice President

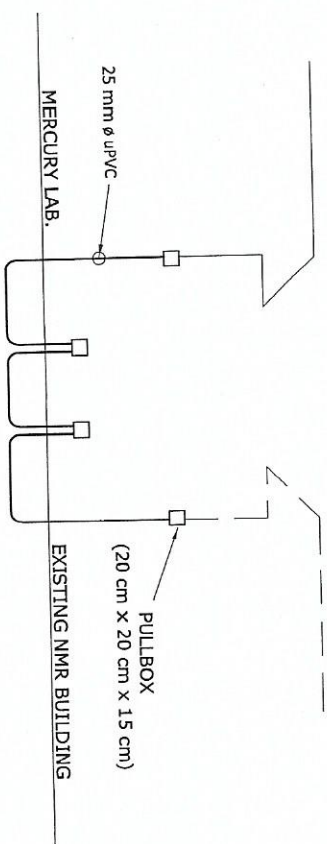
RECOMMENDING APPROVAL: ROLANDO Y. ARENAS
Engr. Usmen, INMRS
GRACETA DE LEON CUEVAS, DPA
SOLEAD S. CASTANEDA, Ph.D.

APPROVED BY: CARLO A. ARCILLA, Ph.D.
Director

DRAWN BY: SHEET NO. L. LAJO
J. GUILLERMO
R. REJAS



SINGLE LINE DIAGRAM



PROVISION FOR AUXILIARY

PROJECT:

UPGRADING
OF NMR BUILDING
(CY 2018)

OWNER:

PHILIPPINE NUCLEAR
RESEARCH INSTITUTE
(PNRI)

SHEET CONTENT:

Single Diagram
Provision for Auxiliary

PREPARED BY:

Engr. ROSALINDO B. REJAS
Vice Chairperson,
Committee on Construction
Engr. GUSEPPE P. LALLO, DEAN
Vice Chairperson,
Committee on Construction

RECOMMENDING APPROVAL:

ROLANDO V. REYES
Engr. in Charge, NMRIS
GRACIA DE LEON CUEVAS, DPA
Chief, ARD
SOLEDAD S. CASTAÑEDA, Ph.D.
Deputy Director

APPROVED BY:

CARLO A. ARCILLA, Ph.D.
Director

DRAWN BY: SHEET NO.

L. LALO
J. GUILLERMO
R. REJAS
G. DEAN

E-3

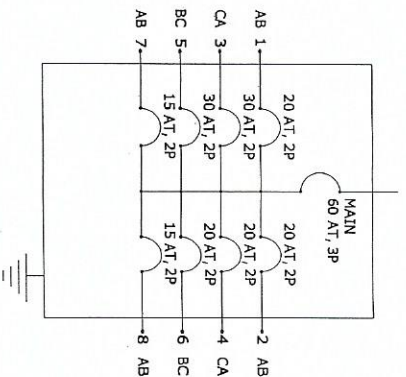
4



Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
PHILIPPINE NUCLEAR RESEARCH INSTITUTE

LEGEND:

- Weatherproof fluorescent light
- Weatherproof fluorescent light (Double)
- Duplex convenience outlet
- Emergency light outlet
- Exhaust fan outlet
- ACU outlet
- Power panel
- 1 gang Switch
- 3 gang Switch
- 1 gang Switch Weatherproof



PANEL BOARD DETAILS

Ckt. No.	Description of Loads	VA	Volts	Amperes				3 Phase	CB	Pole	Sizes of Wires and Conduits	
1	Convenience Outlet - 6, EL - 2	1,401	230	6.09					20	2	2-3.5 sq. mm. THHN/THWN, 1-3.5 sq. mm. THW in 15 mm dia. uPVC	
2	Convenience Outlet - 6, EL - 3	1,500	230	6.52					20	2	2-3.5 sq. mm. THHN/THWN, 1-3.5 sq. mm. THW in 15 mm dia. uPVC	
3	ACU 1 (1.5 HP)	2,300	230			10.00			30	2	2-5.5 sq. mm. THHN/THWN, 1-3.5 sq. mm. THW in 20 mm dia. uPVC	
4	Spare	1,000	230			4.35			20	2	2-3.5 sq. mm. THHN/THWN, 1-3.5 sq. mm. THW in 15 mm dia. uPVC	
5	ACU 2 (1.5 HP)	2,300	230			10.00			30	2	2-5.5 sq. mm. THHN/THWN, 1-3.5 sq. mm. THW in 20 mm dia. uPVC	
6	Spare	1,000	230			4.35			20	2	2-3.5 sq. mm. THHN/THWN, 1-3.5 sq. mm. THW in 15 mm dia. uPVC	
7	Weatherproof FL (2 x 18 W) - 6, Weatherproof FL (2 x 18 W) - 3	269	230	1.17					15	2	2-3.5 sq. mm. THHN/THWN, 1-3.5 sq. mm. THW in 15 mm dia. NSC	
8	Weatherproof FL (2 x 18 W) - 6, Weatherproof FL (18 W) - 4	288	230	1.25					15	2	2-3.5 sq. mm. THHN/THWN, 1-3.5 sq. mm. THW in 15 mm dia. NSC	
COMPUTATION:			Total	15.03	14.35	14.35						

SERVICE FEEDER:
Three- 14 sq. mm THHN/THWN, One- 8.0 sq. mm THW wires; 25 mm dia. NSC
MAIN CIRCUIT BREAKER:
Use 60 AT, 3 Pole, 240 volts Circuit Breaker

LOAD SCHEDULE

		PROJECT: UPGRADING OF NMR BUILDING (CY 2018)	OWNER: PHILIPPINE NUCLEAR RESEARCH INSTITUTE (PNRI)	SHEET CONTENT: Legends Panel Board Details Load Schedule	PREPARED BY: Engr. ROSALINDO B. REJAS Vice Chairman, Committee on Construction Engr. GUSEPPE P. JUAN O. DEAN Vice Chairman	RECOMMENDING APPROVAL: ROLANDO Y. JERES Engr. in Charge, NMRIS GRACETA DELA CRUZ CUEVAS, DPA Chief, FAD	APPROVED BY: CARLO A. ARCILLA, Ph.D. Director	DRAWN BY: L. LALLO J. GUILLERMO R. REJAS G. DEAN	SHEET NO E-4 4
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