



Republic of the Philippines
City of Puerto Princesa

OFFICE OF THE CITY BUILDING OFFICIAL

INFORMATION CAMPAIGN & DISSEMINATION ON THE
AUTOMATED BUILDING PERMIT & CERTIFICATE OF OCCUPANCY
SYSTEM IN PUERTO PRINCESA CITY
TECHNICAL REQUIREMENTS PART II



ELECTRICAL



SECTION



AS PART OF BUILDING PERMIT REQUIREMENTS

Ancillary Permit (ELECTRICAL)

I. Accomplished Electrical Permit Form. (4 original copies)

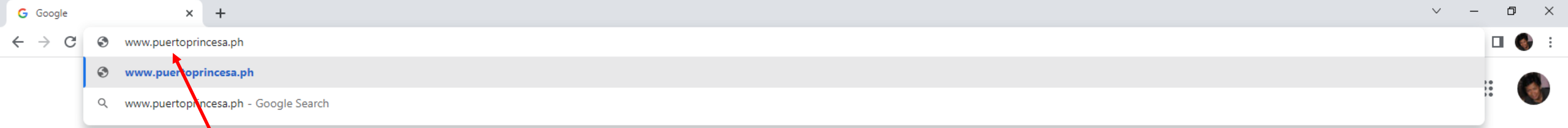
Electrical Permit is needed before work is started. Before starting any installation work, alternation, repair or extension on any electrical system, the owners, lessors, operators, occupants, or licensed electrical practitioners shall obtain an electrical permit for buildings, trailers, mobile homes, or other premises from the Office of the City Building Official (OCBO). In securing the electrical permit, the services of a licensed electrical practitioner is required under the New Electrical Engineering Law (RA 7920).





ONLINE APPLICATION IN SECURING ELECTRICAL PERMIT AS AN ANCILLARY PERMIT FOR BUILDING PERMIT APPLICATION





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30°C Mostly cloudy 11:44 AM 7/5/2022



Puerto Princesa
The Official Website of the City Government



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PRESS "e-Payment Services" TO START APPLICATION

CLICK HERE! For Electronic Services and Online Payment



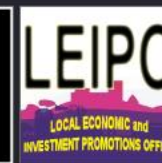
Letter from Regional Director, Officer-In-Charge Arhtur D. Pascual, Jr. of the Department of Public Works and Highway (DPWH)

Mon, 07/05/2021 - 06:32 | RALPH RICHARD A...

July 5, 2021

Letter from Regional Director, Officer-In-Charge Arhtur D. Pascual, Jr. of the Department of Public Works and Highway (DPWH) informing the City Government of...

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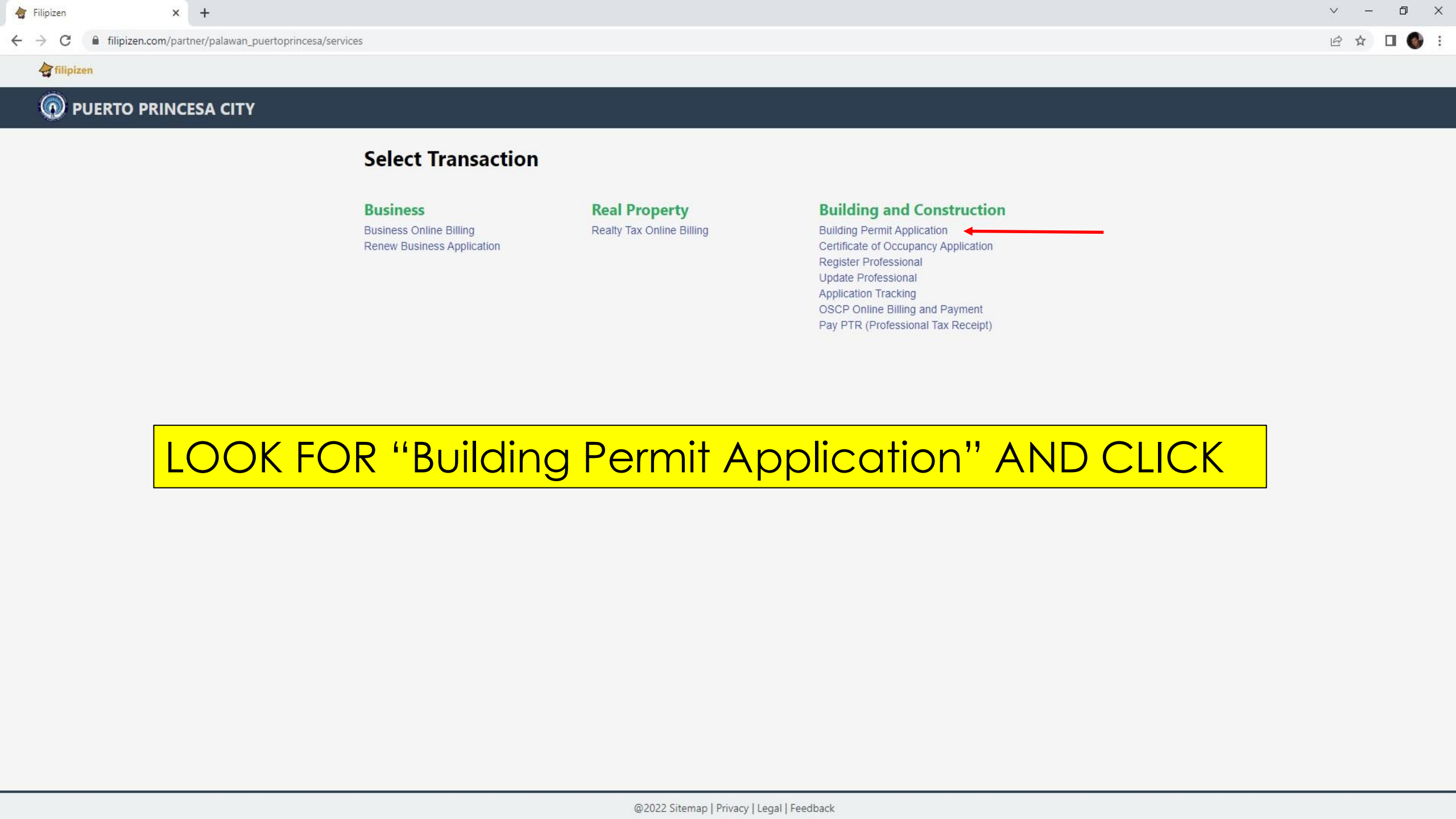


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Start Here

PRESS "Start Here" TO START APPLICATION



Select Transaction

Business

Business Online Billing
Renew Business Application

Real Property

Realty Tax Online Billing

Building and Construction

Building Permit Application
Certificate of Occupancy Application
Register Professional
Update Professional
Application Tracking
OSCP Online Billing and Payment
Pay PTR (Professional Tax Receipt)

LOOK FOR “Building Permit Application” AND CLICK



Building Permit Application

Select an action

- ☒ Create New Application
- ☐ Resume Pending Application

Cancel

Next

SELECT "Create New Application" AND CLICK "Next"



Building Permit Application

New Building Permit Application

Before you begin, please take note of the following:

1. Register first all professionals involved in the project. If you have not done this yet, select Register Professional in the main menu or click [here](#).
2. Make sure your Tax Declaration No. is valid and is cleared. You can check if from the Realty Tax Online Billing or you can click [here](#).

Cancel

Next

PLEASE TAKE TIME TO READ THEN CLICK "Next"



- ✓ Applicant
- ✓ Real Property Info
- ✓ Project Location
- ✓ Project Details
- ✓ Supervisor
- ✓ Occupancy Type
- ✓ Other Permits
- 8 Confirm
- 9 Completed

Building Permit Application

Tracking No. 134-QR0UWN72

Confirm Application

Please confirm the info and preview each permit application before submitting

Preview

Download

Tracking No.
134-QR0UWN72

Project Title

FILL IN NECESSARY INFORMATIONS, SCROLL
DOWN THEN CLICK "Next"

Occupancy Type
stages, platforms and similar structures

Type of Work
ORIGINAL

Supervisor in Charge of Construction

No. of Units	No. of Floors	Bldg. Height
1	1	6.00

Total Area (sqm)
80.00

Project Cost
1,000,000.00

Est. Start Date
2021-06-07

Est. Completion Date
2023-06-07

Next

Filipizen

filipizen.com/partner/palawan_puertoprincesa/obo/bldgpermit?appid=134-QR0UWN72#location

☆

filipizen

PUERTO PRINCESA CITY

✓

Applicant

✓

Real Property Info

✓

Project Location

✓

Project Details

✓

Supervisor

✓

Occupancy Type

✓

Other Permits

8

Confirm

9

Completed

Building Permit Application

Tracking No. 134-QR0UWN72

Project Location

Specify Project Location

Lot No.

5655-F

Block No.

Unit No.

Building No.

Subdivision

Barangay

SICSICAN

Lot Area (sq.m.)

4,945.00

Next

FILL IN NECESSARY INFORMATIONS THEN CLICK “Next”

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PUERTO PRINCESA CITY

✓

Applicant

✓

Real Property Info

✓

Project Location

✓

Project Details

✓

Supervisor

✓

Occupancy Type

✓

Other Permits

8

Confirm

9

Completed

Building Permit Application

Tracking No. 134-QR0UWN72

Project Details

Project Title *

PROPOSED POWERHOUSE, 600KW GENSET & MACHINE FOUNDATION

Project Description *

TWO (2) UNITS

Occupancy Type *

stages, platforms and similar structures

Estimated Cost [Php] *

1,000,000.00

Proposed Construction Date *

06/07/2021

mm/dd/yyyy

Expected Completion Date *

06/07/2023

Date should not be before proposed date

Next

FILL IN NECESSARY INFORMATIONS, SCROLL DOWN THEN CLICK "Next"

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filipizen

PUERTO PRINCESA CITY

✓

Applicant

✓

Real Property Info

✓

Project Location

✓

Project Details

✓

Supervisor

✓

Occupancy Type

✓

Other Permits

8

Confirm

9

Completed

Building Permit Application

Tracking No. 134-QR0UWN72

Project Supervisor

Specify full time inspector and supervisor of construction work

Inspector/Supervisor

CIVIL ENGINEER

Valid Until

2025-01-01

Place Issued

MANILA

Next

FILL IN NECESSARY INFORMATIONS THEN CLICK "Next"

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PUERTO PRINCESA CITY

✓

Applicant

✓

Real Property Info

✓

Project Location

✓

Project Details

✓

Supervisor

✓

Occupancy Type

8

Confirm

9

Completed

Building Permit Application

Tracking No. 134-QR0UWN72

Occupancy Type

Select Occupancy Group

A

RESIDENTIAL (DWELLINGS)

A residential (dwellings)

B

RESIDENTIAL (HOTELS, APARTMENTS)

E

COMMERCIAL

E commercial

F

LIGHT INDUSTRIAL

F light industrial

G

MEDIUM INDUSTRIAL

G medium industrial

H

ASSEMBLY (OCCUPANT LOAD LESS THAN 1000)

H assembly (occupant load less than 1000)

I

ASSEMBLY (OCCUPANT LOAD 1000 OR MORE)

I assembly (occupant load 1000 or more)

J

ACCESSORIES

J accessories

Next

SELECT THE TYPE OF YOUR APPLICATION,
SCROLL DOWN THEN CLICK "Next"

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- ✓ Applicant
- ✓ Real Property Info
- ✓ Project Location
- ✓ Project Details
- ✓ Supervisor
- ✓ Occupancy Type
- ✓ Other Permits
- 8 Confirm
- 9 Completed

Building Permit Application

Tracking No. 134-QR0UWN72

Other Permits

Click on edit  for each document and complete the details.

- ✓ CIVIL/STRUCTURAL PERMIT
- ✓ EXCAVATION AND GROUND PERMIT
- ✓ FENCING PERMIT
- ✓ SIDEWALK CONSTRUCTION PERMIT
- ✓ SIGN PERMIT



CLICK "Add New Permit" THEN CLICK "Next"

Add New Permits

Next

Filipizen x +

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PUERTO PRINCESA CITY

- ✓ Applicant
- ✓ Real Property Info
- ✓ Project Location
- ✓ Project Details
- ✓ Supervisor
- ✓ Occupancy Type
- ✓ Other Permits**
- 8 Confirm
- 9 Completed

Building Permit Application

Tracking No. 134-QR0UWN72

Other Permits

Select ancillary and other permits to include in the project

- ☐ ARCHITECTURAL PERMIT
- ☒ ELECTRICAL PERMIT
- ☐ MECHANICAL PERMIT
- ☐ SANITARY PERMIT
- ☐ PLUMBING PERMIT
- ☐ ELECTRONICS PERMIT


Next

SELECT "ELECTRICAL PERMIT" THEN CLICK "Next"

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PUERTO PRINCESA CITY

✓

Applicant

✓

Real Property Info

✓

Project Location

✓

Project Details

✓

Supervisor

✓

Occupancy Type

✓

Other Permits

8

Confirm


9

Completed

Building Permit Application

Tracking No. 134-QR0UWN72

Other Permits

Click on edit  for each document and complete the details.

✓

CIVIL/STRUCTURAL PERMIT

✓

ELECTRICAL PERMIT

✓

EXCAVATION AND GROUND PERMIT

✓

FENCING PERMIT

✓

SIDEWALK CONSTRUCTION PERMIT

✓





TEMPORARY SIDEWALK ENCLOSURE AND OCCUPANCY PERMIT




✓





SCAFFOLDING PERMIT




✓





SIGN PERMIT


































Add New Permits

Next

CLICK ON EDIT “” OPPOSITE SIDE OF “ELECTRICAL PERMIT”

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- ✓ Applicant
- ✓ Real Property Info
- ✓ Project Location
- ✓ Project Details
- ✓ Supervisor
- ✓ Occupancy Type
- ✓ Other Permits
- 8 Confirm
- 9 Completed

Building Permit Application

Tracking No. 134-QR0UWN72

Other Permits

ELECTRICAL PERMIT

Select Work Types

- ☒ NEW INSTALLATION
- ☐ ANNUAL INSPECTION
- ☐ TEMPORARY
- ☐ RECONNECTION OF SERVICE ENTRANCE
- ☐ SEPARATION OF SERVICE ENTRANCE
- ☐ UPGRADING OF SERVICE ENTRANCE
- ☐ RELOCATION OF SERVICE ENTRANCE
- ☐ OTHERS

[Back](#)

[Next](#)

SELECT THE TYPE OF WORK THEN CLICK "Next"

- ✓ Applicant
- ✓ Real Property Info
- ✓ Project Location
- ✓ Project Details
- ✓ Supervisor
- ✓ Occupancy Type
- ✓ Other Permits
- 8 Confirm
- 9 Completed

Tracking No. 134-QR0UWN72

Other Permits

ELECTRICAL PERMIT

Please fill the applicable values and click Save and Complete when done.

MISCELLANEOUS	
electric meter (unit)	1

guying attachment (attachment)	1
--------------------------------	---

GENERAL	
total connected load (kva)	10.00
total transformer capacity (kva)	
total generator/ups capacity (kva)	

[Back](#)

Next

FILL IN THE INFORMATIONS THEN CLICK “Next”



PUERTO PRINCESA CITY

- # Building Permit Application

Tracking No. 134-QR0UWN72

Other Permits

ELECTRICAL PERMIT

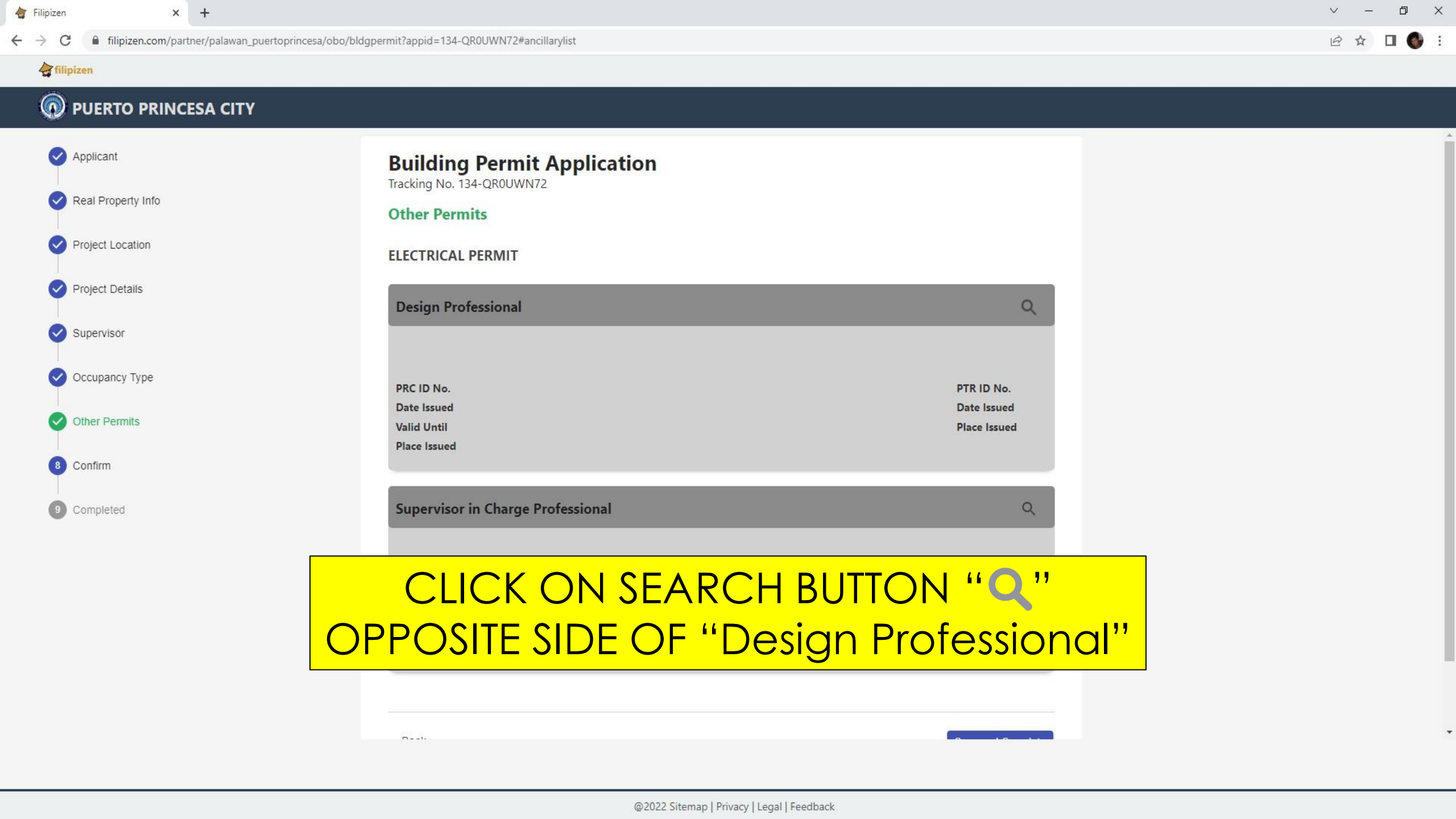
Project Cost

Equipment Cost

[Back](#)

Next

FILL IN THE INFORMATIONS THEN CLICK “Next”



Building Permit Application

Tracking No. 134-QR0UWN72

Other Permits

ELECTRICAL PERMIT

Design Professional

PRC ID No.
Date Issued
Valid Until
Place Issued

PTR ID No.
Date Issued
Place Issued

Supervisor in Charge Professional

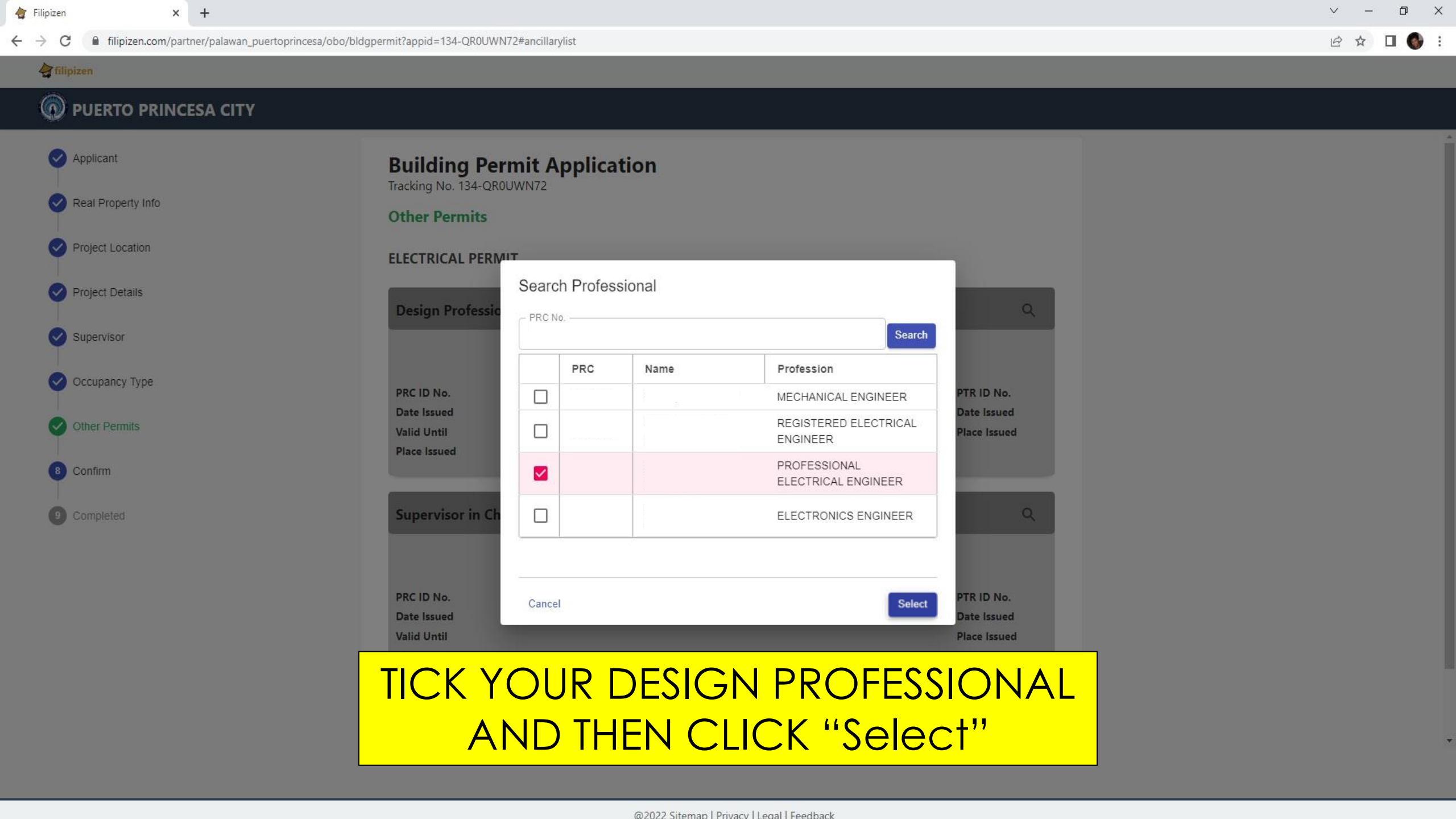
CLICK ON SEARCH BUTTON “Q”
OPPOSITE SIDE OF “Design Professional”

TYPE THE PRC REGISTRATION NO. OF THE PROFESSIONAL
AND CLICK "Search"

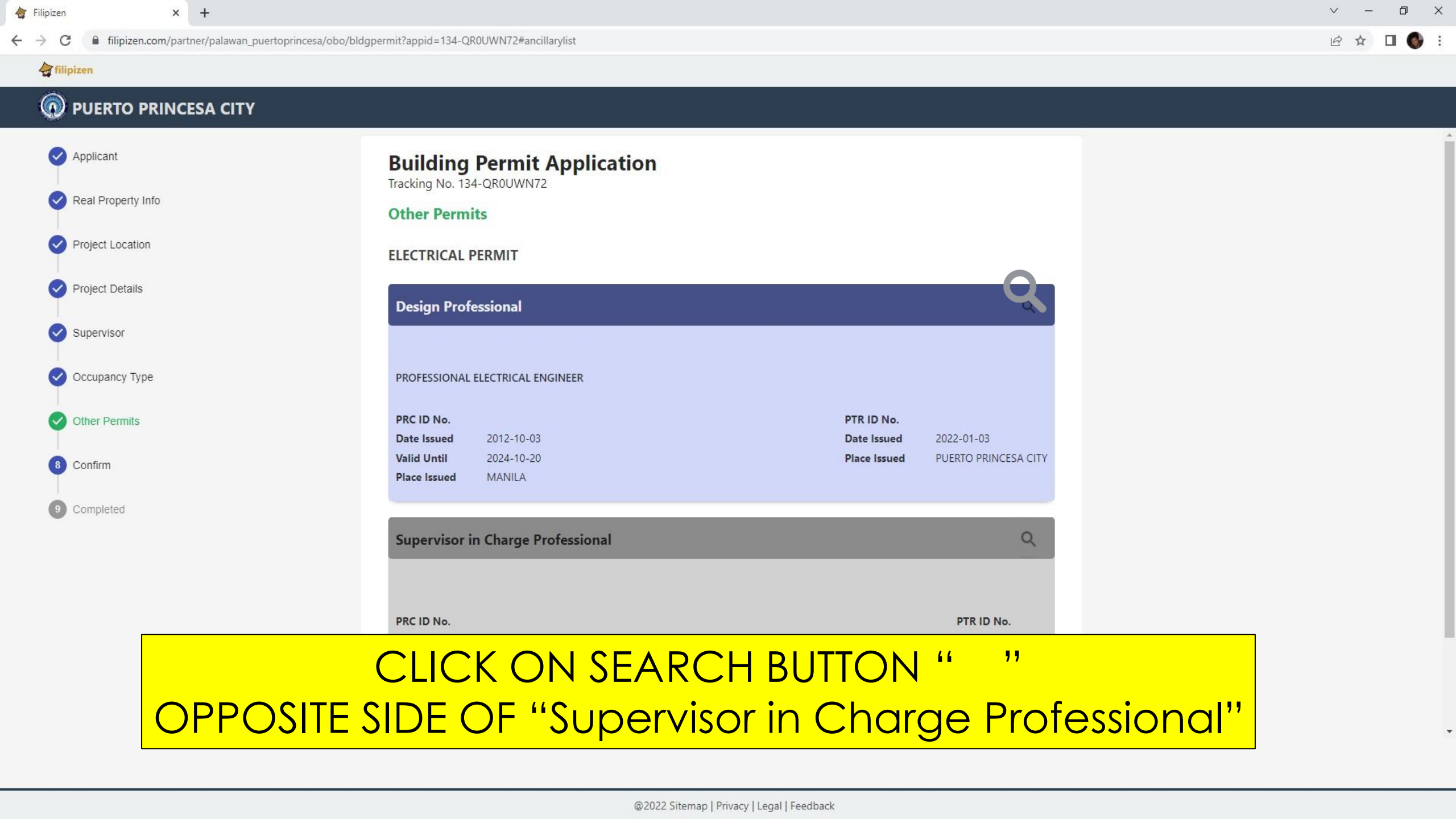
Search Professional

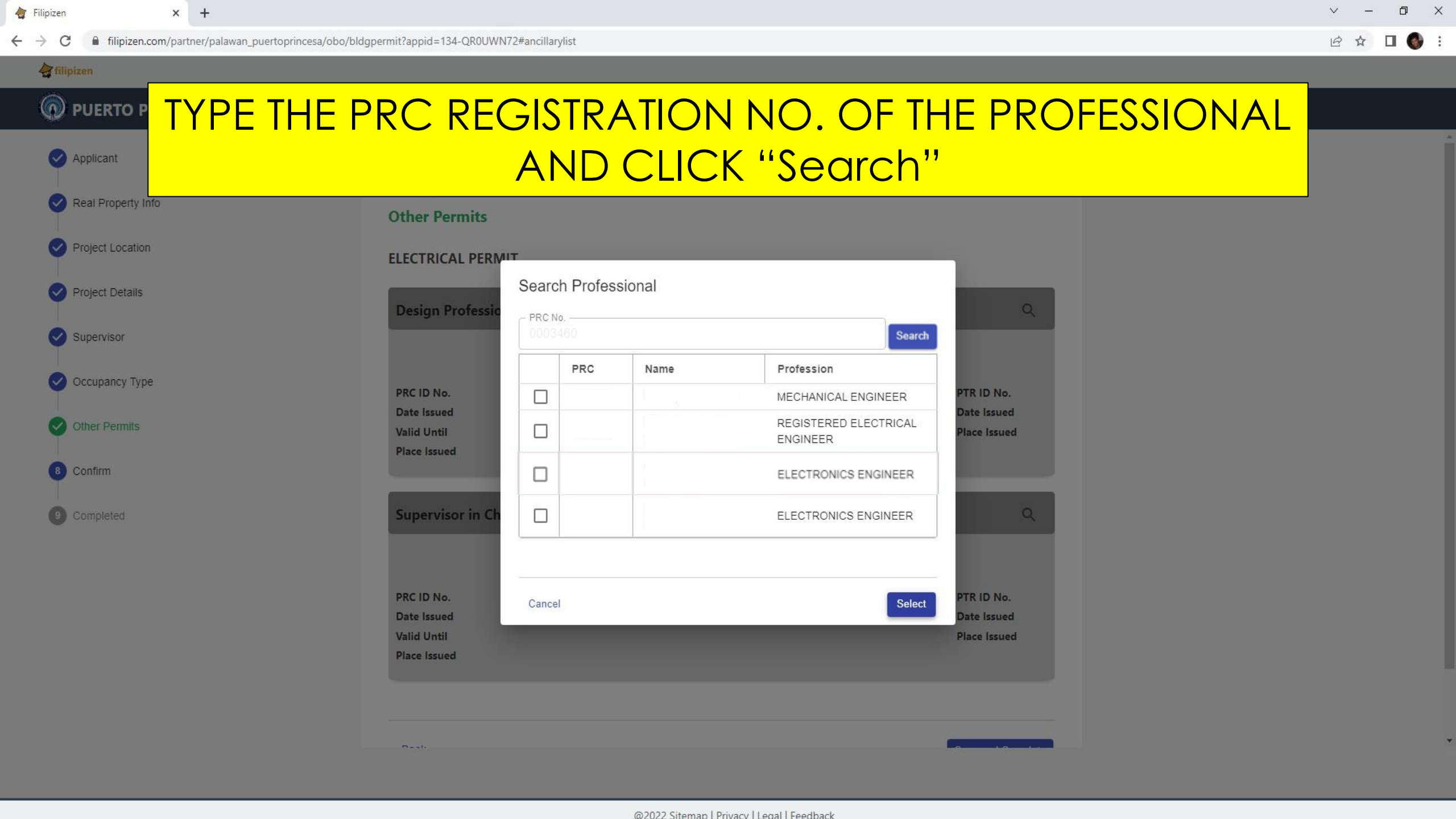
PRC No.

	PRC	Name	Profession
<input type="checkbox"/>			MECHANICAL ENGINEER
<input type="checkbox"/>			REGISTERED ELECTRICAL ENGINEER
<input type="checkbox"/>			ELECTRONICS ENGINEER
<input type="checkbox"/>			ELECTRONICS ENGINEER



TICK YOUR DESIGN PROFESSIONAL
AND THEN CLICK "Select"





TYPE THE PRC REGISTRATION NO. OF THE PROFESSIONAL
AND CLICK "Search"

Search Professional

PRC No.

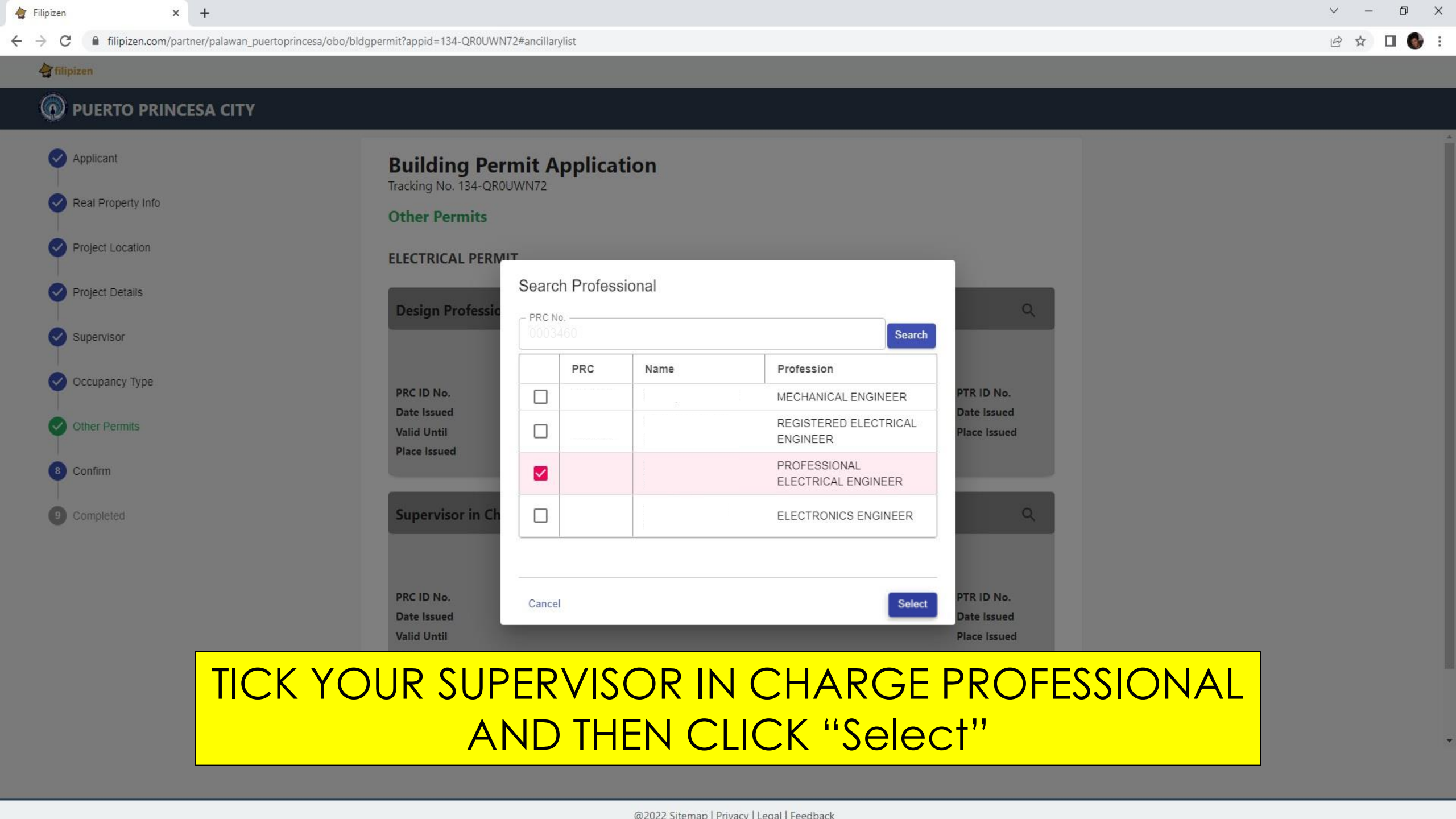
0003460

Search

	PRC	Name	Profession
<input type="checkbox"/>			MECHANICAL ENGINEER
<input type="checkbox"/>			REGISTERED ELECTRICAL ENGINEER
<input type="checkbox"/>			ELECTRONICS ENGINEER
<input type="checkbox"/>			ELECTRONICS ENGINEER

Cancel

Select



Building Permit Application

Tracking No. 134-QR0UWN72

Other Permits

ELECTRICAL PERMIT

Design Professional

PRC ID No.
Date Issued
Valid Until
Place Issued

Supervisor in Charge

PRC ID No.
Date Issued
Valid Until

PTR ID No.
Date Issued
Place Issued

PTR ID No.
Date Issued
Place Issued

Search Professional

PRC No.
0003460

Search

	PRC	Name	Profession
<input type="checkbox"/>			MECHANICAL ENGINEER
<input type="checkbox"/>			REGISTERED ELECTRICAL ENGINEER
<input checked="" type="checkbox"/>			PROFESSIONAL ELECTRICAL ENGINEER
<input type="checkbox"/>			ELECTRONICS ENGINEER

Cancel

Select

TICK YOUR SUPERVISOR IN CHARGE PROFESSIONAL
AND THEN CLICK "Select"

- ✓ Applicant
- ✓ Real Property Info
- ✓ Project Location
- ✓ Project Details
- ✓ Supervisor
- ✓ Occupancy Type
- ✓ Other Permits
- 8 Confirm
- 9 Completed

Building Permit Application

Tracking No. 134-QR0UWN72

CHECK IF IT IS CORRECT THEN CLICK "Next"

Design Professional

PROFESSIONAL ELECTRICAL ENGINEER

PRC ID No.

Date Issued 2012-10-03

Valid Until 2024-10-20

Place Issued MANILA

PTR ID No.

Date Issued 2022-01-03

Place Issued PUERTO PRINCESA CITY

Supervisor in Charge Professional

PROFESSIONAL ELECTRICAL ENGINEER

PRC ID No.

Date Issued 2012-10-03

Valid Until	2024-10-20
-------------	------------

Place Issued MANILA

PTR ID No.

Date Issued 2022-01-03

Place Issued PUERTO PRINCESA CITY

Next

Filipizen x +

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PUERTO PRINCESA CITY

































- ✓ Applicant
- ✓ Real Property Info
- ✓ Project Location
- ✓ Project Details
- ✓ Supervisor
- ✓ Occupancy Type
- ✓ Other Permits**
- 8 Confirm
- 9 Completed

Building Permit Application

Tracking No. 134-QR0UWN72

Other Permits

Click on edit  for each document and complete the details.

✓ CIVIL/STRUCTURAL PERMIT	   
✓ ELECTRICAL PERMIT	   
✓ EXCAVATION AND GROUND PERMIT	   
✓ FENCING PERMIT	   
✓ SIDEWALK CONSTRUCTION PERMIT	   
✓ TEMPORARY SIDEWALK ENCLOSURE AND OCCUPANCY PERMIT	   
✓ SCAFFOLDING PERMIT	   
✓ SIGN PERMIT	   

Add New Permits

Next

NOW THE ELECTRICAL PERMIT INFORMATIONS
HAS BEEN COMPLETED CLICK "Next"

Upon completion of information's need on the Electrical Permit form from the online application, It must be printed and will be for signature of building owner, lot owner and professionals involved. Design professional must also affix seal on the Electrical Permit form.

NBC FORM NO. A-43

Republic of the Philippines
PROVINCE OF PALAWAN
CITY OF PUERTO PRINCESA

OFFICE OF THE CITY BUILDING OFFICIAL
OFFICE OF THE CITY BUILDING OFFICIAL
CITY BUILDING OFFICIAL

ELECTRICAL PERMIT

BY DATE: 10 JUN. 2022 BUILDING PERMIT NO. 22050007

APPLICATION NO. EP NO. BUILDING PERMIT NO.

BOX 1 (TO BE ACCOMPLISHED IN PRINT BY THE OWNER/APPLICANT)

OWNER/APPLICANT LAST NAME FIRSTNAME M.I. TIN
CINCO MARIA ISABEL R 227438333

FOR CONSTRUCTION OWNED FORM OF OWNERSHIP USE OR CHARACTER OF OCCUPANCY
INDIVIDUAL A101 - INDIGENOUS FAMILY DWELLING UNITS

BY AN ENTERPRISE

ADDRESS NO. STREET BARANGAY CITY/MUNICIPALITY ZIP CODE TELEPHONE NO.
BAHILE PUERTO PRINCESA CITY (0927) 871-3842

LOCATION OF CONSTRUCTION: LOT NO. 893 BLK NO. TCT NO. TAX DEC NO.
STREET BARANGAY BAHILE CITY/MUNICIPALITYCITY OF PUERTO PRINCESA

SCOPE OF WORK

☒ NEW INSTALLATION ☐ RECONNECTION OF SERVICE ENTRANCE ☐ RELOCATION SERVICE ENTRANCE
☐ ANNUAL INSPECTION ☐ SEPARATION OF SERVICE ENTRANCE ☐ OTHERS (Specify)
☐ TEMPORARY ☐ UPGRADING OF SERVICE ENTRANCE

SUMMARY OF ELECTRICAL WORKS TO BE APPLIED FOR

TOTAL CONNECTED LOAD 4.42 KVA TOTAL TRANSFORMER CAPACITY N/A KVA TOTAL GENERATOR UPS CAPACITY N/A KVA

BOX 2 (TO BE ACCOMPLISHED IN PRINT BY THE DESIGN PROFESSIONAL)

DESIGN PROFESSIONAL, PLANS AND SPECIFICATIONS

Address NO BLDG NO. INTERIOR ABANICO ROAD

(Signed And Sealed Over Printed Name) Issued at PUERTO PRINCESA CITY TIN

BOX 3

SUPERVISOR / IN-CHARGE OF ELECTRICAL WORKS

☒ PROFESSIONAL ELECTRICAL ENGINEER ☐ REGISTERED ELECTRICAL ENGINEER ☐ REGISTERED MASTER ELECTRICIAN

PRC No. 9063466 PTR No. 1632697 Validity 10/20/2024
Date issued 01/03/2022

Address NO BLDG NO. INTERIOR ABANICO ROAD

BOX 4

BUILDING OWNER

MARIA ISABEL RODRIGUEZ CINCO
(Signature Over Printed Name)
Date 2-21-22

Address BAHILE PUERTO PRINCESA CITY TIN 327438333 Date issued 07/23/2018 Place issued PUERTO PRINCESA

BOX 5

WITH MY CONSENT: LOT OWNER

MARIA ISABEL RODRIGUEZ CINCO
(Signature Over Printed Name)
Date 3-21-22

Address BAHILE PUERTO PRINCESA CITY TIN 327438333 Date issued 07/23/2018 Place issued PUERTO PRINCESA

SAMPLE OF APPROVED ELECTRICAL PERMIT

BOX 6 (TO BE ACCOMPLISHED BY THE PROCESSING AND EVALUATION DIVISION)

RECEIVED BY DATE

FIVE (5) SETS OF ELECTRICAL DOCUMENTS

☐ ELECTRICAL PLANS AND SPECIFICATIONS ☐ EXPECTED DATE OF COMPLETION/INSTALLATION/ CONSTRUCTION
☐ SPECIAL FIXTURES AND EQUIPMENT ☐ OTHERS (Specify)
☐ PROPOSED STARTING DATE OF INSTALLATION/ CONSTRUCTION

BOX 7

PROGRESS FLOW

ELECTRICAL 04 MAY 2022 9:45 04 MAY 2022 9:10

OTHERS (Specify)

PROCESSED BY
ELECTRICAL ENGINEER
(Signature Over Printed Name)
PRC Reg. No. Validity

BOX 8

ACTION TAKEN

1. That the proposed electrical works shall be in accordance with the electrical plans filed with this Office and in conformity with the provisions of the latest Philippine Electrical Codes, the National Building Code and its IRR

2. That prior to any electrical installation, the Owner/Permittee shall submit a duly accomplished prescribed "Notice of Construction" to the Office of the Building Official.

3. That for installed electrical capacity of 200 amperes and above at 230 volts nominal and above, a specialty electrical contractor duly licensed by the Philippines Contractors Accreditation Board (PCAB) shall be required.

4. That a duly licensed electrical practitioner shall be in-charge of the installation, and that upon completion of the electrical works, he shall submit the entry of the logbook duly signed and sealed to the OBO including as-built plans and other documents. He shall also accomplish the Certification of Completion stating that the electrical works conform to the provisions of the Philippine Electrical Codes: the National Building Code and its IRR.

5. That this permit is null and void unless accompanied by the building permit except for projects involving purely electrical works in which case only the building permit number of the existing building/structure shall be required;

6. That a Certificate of Final Electrical Inspection (CFE) shall be secured prior to the actual occupancy of the building.

7. That this permit shall be posted at the door or site of work.

RECOMMENDING APPROVAL:

APRIL LADY J. ALJADIA
ELECTRICAL ENGINEER III
04 MAY 2022

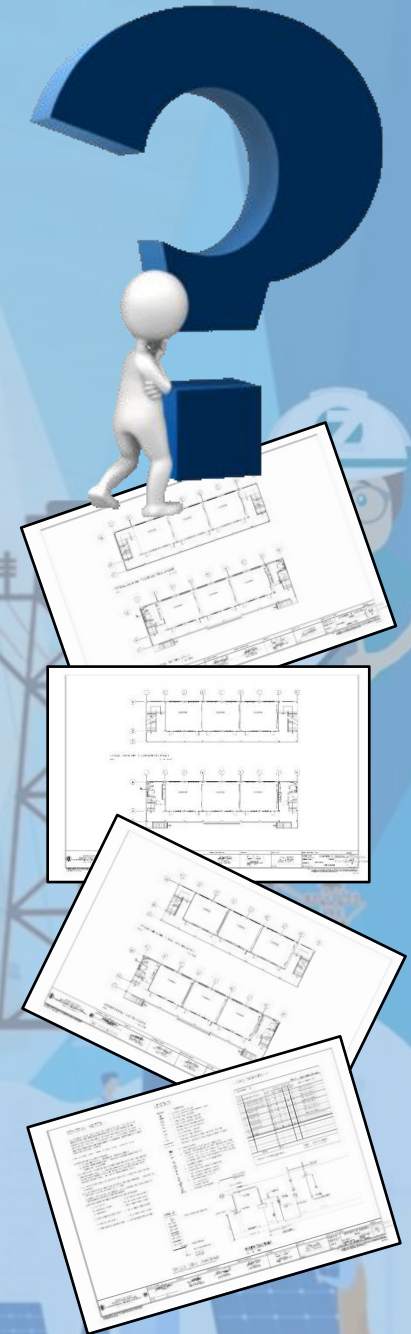
PERMIT ISSUED BY:

REX G. BUNOAC, CE, EnP
CITY BUILDING OFFICIAL
(Signature Over Printed Name)
Date

II. Electrical Plan signed and sealed by a Duly Registered Professional Electrical Engineer and signed by the owner.
(4 Sets)

What is an Electrical Plan?

An electrical plan is also known as an electrical drawing. It's a rough layout of what your construction's electrical system will look like when it's finished. It is a visual representation of where all your construction's electrical points will be located. It describes the circuits, the number of switches, location of outlets, panel boards, service entrance and all other electrical related details of your construction. It also shows the position of lighting fixtures and any electrical appliances. On the plan, different symbols are used to show which materials will be used at each point.



Electrical plans and technical specifications

containing the following:

A. Location and Site Plans

B. Legend or Symbols

C. General Notes and/or Specifications

C.

GENERAL NOTES

1. ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATION OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE DONE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
2. THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE, 230 V AC, 60 Hz.
3. WIRING METHOD SHALL BE AS FOLLOWS :
 - a. FEEDERS AND RISERS - INTERMEDIATE METALLIC CONDUIT
 - b. LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT SCH. 40 BRANCH CKT., & AUXILIARY
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THW" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 15mmØ TRADE/NOMINAL SIZE. I
5. ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE WITH FACTORY KNOCKOUTS.
6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
7. GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
8. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
 - a. LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - b. CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - c. PANELBOARD - 1.50 M ABOVE FINISH FLOOR
 - d. FIRE ALARM STATION OUTLET - 1.50 M. ABOVE FINISH FLOOR
 - e. PUSH BUTTON OUTLET - 1.20 M. ABOVE FINISH FLOOR
 - f. FIRE ALARM & VIBRATING BELL - 0.30 M BELOW CEILING LINE.

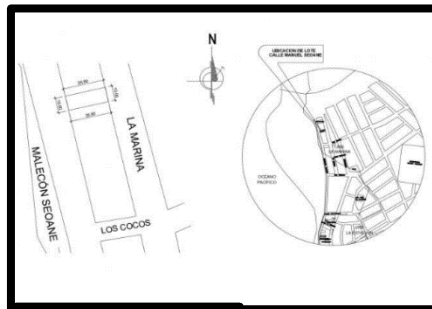
LEGEND

SYMBOL	DESCRIPTION
	- CEILING LIGHT OUTLET
	- 2 x 40 WATTS FLUORESCENT LAMP
	- CEILING FAN OUTLET
	- ONE GANG DEVICE SWITCH
	- TWO GANG DEVICE SWITCH
	- THREE GANG DEVICE SWITCH
	- FAN CONTROL SWITCH
	- EXHAUST FAN SWITCH
	- RACEWAY CONDUIT CONCEALED IN CEILING
	- RACEWAY CONDUIT CONCEALED UNDER FLOOR
	- PANELBOARD
	- CKT. BREAKER, RATING AS INDICATED
	- DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 10 AMPS, 250 VOLT WITH MODERN PLATE COVER
	- EXHAUST FAN OUTLET, SINGLE, GROUNDING TYPE 10 AMPS, 250 VOLT WITH MODERN PLATE COVER
	- HOMERUN DIRECT TO PANELBOARD
	- PUSH BUTTON
	- ENCLOSED AIR CIRCUIT BREAKER
	- FIRE ALARM CONTROL PANEL
	- FIRE ALARM STATION OUTLET
	- VIBRATING BELL OUTLET
	- FIRE ALARM BELL
	- SERVICE METER
	- SERVICE ENTRANCE

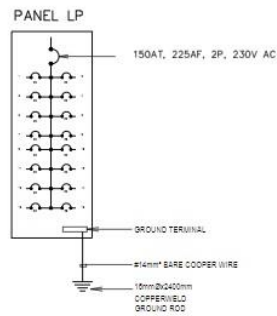
LOAD SCHEDULE

PANELBOARD: LP									
MAIN : 100AT, 100AF, 2P, 230V									
CKT. NO.	DESCRIPTION	VA LOAD	CIRCUIT BREAKER			WIRE & CONDUIT SIZE			
			VOLT	POLE	A T A F				
1	CONVENIENCE OUTLET - 2x150w	1500	230	2	20	80	3.5mm ² THW (1) 15mmØ C		
2	CONVENIENCE OUTLET - 2x150w	1500	230	2	20	80	3.5mm ² THW (1) 15mmØ C		
3	CONVENIENCE OUTLET - 2x150w	1500	230	2	20	80	3.5mm ² THW (1) 15mmØ C		
4	LIGHTING OUTLET	1400	230	2	20	80	3.5mm ² THW (1) 15mmØ C		
5	LIGHTING OUTLET	1600	230	2	20	80	3.5mm ² THW (1) 15mmØ C		
6	LIGHTING OUTLET	1200	230	2	20	80	3.5mm ² THW (1) 15mmØ C		
7	LIGHTING OUTLET	1000	230	2	20	80	3.5mm ² THW (1) 15mmØ C		
8	LIGHTING OUTLET	1100	230	2	20	80	3.5mm ² THW (1) 15mmØ C		
9	LIGHTING OUTLET	1100	230	2	20	80	3.5mm ² THW (1) 15mmØ C		
10	S P A R E	1600	230	2	20	80			
11	S P A R E	1600	230	2	20	80			
TOTAL		14000							
I.L @ 80% D.F. = 14000 80% x 1.25 = 22500 230V									
FEEDER: 3.5mm ² THW (1) 32mmØ C PROTECTION: 100 AT, 225 AF, 2P, 230 V									

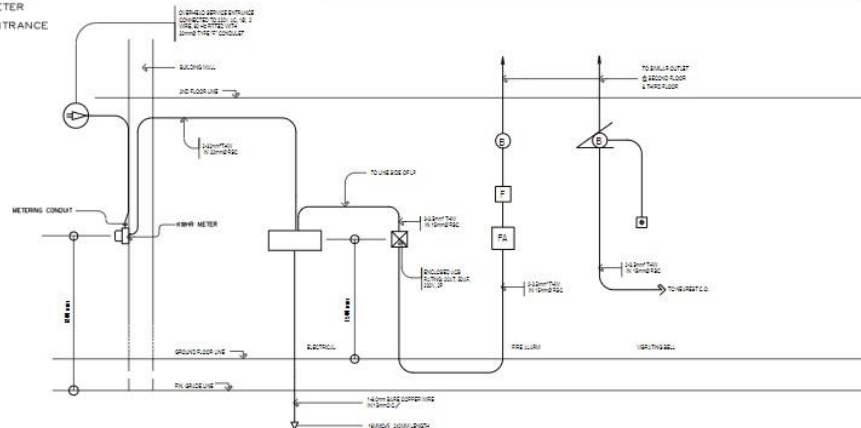
A.



SITE LOCATION



SINGLE LINE DIAGRAM



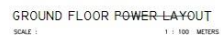
RISER DIAGRAM



	CONSULTANT / DESIGNER VENERANDA D. SISON ENGINEER	REVIEWED BY FE CHIEF, ELECTRICAL DIVISION BUREAU OF DESIGN, DPWH	RECOMMENDING APPROVAL SISON CHIEF, DIVISION 8 BUREAU OF DESIGN, DPWH	APPROVED FOR ACQUISITION SISON CHIEF, DIVISION 8 BUREAU OF DESIGN, DPWH	CONCURRED RAMON C. BACANI MANAGING ELECTRICAL ENGINEER DEPARTMENT OF EDUCATION (DPED)	PROJECT TITLE THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE LOCATION	PROJECT NO. 01-002 DESIGNED BY: RDS ENGINEERED BY: MWC CHECKED BY: DATE: 8-15-03	OWNER DEPARTMENT OF EDUCATION DepED SHEET CONTENTS LOAD SCHEDULE GENERAL NOTES SINGLE LINE DIAGRAM RISER DIAGRAM	SHEET NO. E-1 3
	PREC NO.: DATE:								

THE REVIEW & APPROVAL OF THIS PLAN BY THE DPED DOES NOT RELEASE THE DESIGNER/CONSULTANT FROM RESPONSIBILITY FOR THE SAFETY OF THE COMPLETED FACILITY AS WELL AS FOR THE FAILURE OF THE SAME DUE TO FRUIT DESIGN.

THIS DRAWING, AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING, INC. AND SHALL NOT BE REPRODUCED OR COPIED IN ANY FORM OR MANNER WITHOUT THEIR PERMISSION. ALL UNPAID DUES TO BE RETURNED WITHIN 30 DAYS.

REV. 01/04



 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepEd) TASK FORCE FOR ENGINEERING ASSESSMENT AND MONITORING (DEALCOA-TF-APED)	 DIVISION OFFICE SOUTHERN CEBU CEBU	CONSULTING / REVIEWER [Signature] NAME: _____ TITLE: _____ DATE: _____	REVIEWER [Signature] NAME: _____ TITLE: _____ DATE: _____	RECOMMENDING AFFIRMATION [Signature] NAME: _____ TITLE: _____ DATE: _____	APPROVED FOR ACKNOWLEDGMENT [Signature] NAME: _____ TITLE: _____ DATE: _____	COORDINATOR [Signature] NAME: _____ TITLE: _____ DATE: _____	PROJECT FILE: THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE	PROJECT NO. 00-000 ORDER: 1 DEPARTMENT OF EDUCATION DepEd	SHEET NO. E-3
		PREP. NO.: _____ TITLE: _____ DATE: _____	PREP. NO.: _____ TITLE: _____ DATE: _____	PREP. NO.: _____ TITLE: _____ DATE: _____	PREP. NO.: _____ TITLE: _____ DATE: _____	PREP. NO.: _____ TITLE: _____ DATE: _____	PREP. NO.: _____ TITLE: _____ DATE: _____	PROJECT NO. 00-000 ORDER: 1 DEPARTMENT OF EDUCATION DepEd	SHEET NO. E-3

[illegible]

D. Electrical Layout

GENERAL NOTES

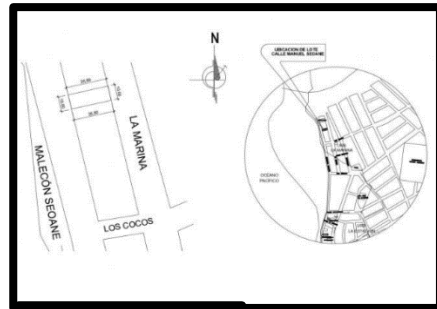
- ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATION OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE DONE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
- THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE, 230 V AC, 60 Hz.
- WIRING METHOD SHALL BE AS FOLLOWS :
 - FEEDERS AND RISERS - INTERMEDIATE METALLIC CONDUIT
 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT SCH. 40 BRANCH CKT., & AUXILIARY
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THW" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 15mmØ TRADE/NOMINAL SIZE. I
- ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE WITH FACTORY KNOCKOUTS.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USE.
- GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
 - LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR
 - PANELBOARD - 1.50 M ABOVE FINISH FLOOR
 - FIRE ALARM STATION OUTLET - 1.50 M. ABOVE FINISH FLOOR
 - PUSH BUTTON OUTLET - 1.20 M ABOVE FINISH FLOOR
 - FIRE ALARM & VIBRATING BELL - 0.30 M BELOW CEILING LINE

LEGEND

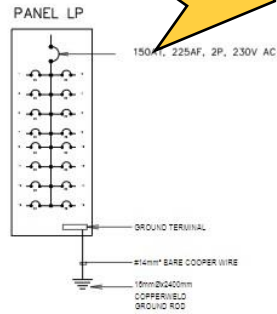
SYMBOL	DESCRIPTION
	CEILING LIGHT OUTLET
	2 x 40 WATTS FLUORESCENT LAMP
	CEILING FAN OUTLET
	ONE GANG DEVICE SWITCH
	TWO GANG DEVICE SWITCH
	THREE GANG DEVICE SWITCH
	THREE WAY DEVICE SWITCH
	FAN CONTROL SWITCH
	EXHAUST FAN SWITCH
	RACEWAY CONDUIT CONCEALED IN CEILING
	RACEWAY CONDUIT CONCEALED UNDER FLOOR
	PANELBOARD
	CKT. BREAKER, RATING AS INDICATED
	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 10 AMPS, 250 VOLT WITH MODERN PLATE COVER
	EXHAUST FAN OUTLET, SINGLE, GROUNDING TYPE 10 AMPS, 250 VOLT WITH MODERN PLATE COVER
	HOMERUN DIRECT TO PANELBOARD
	PUSH BUTTON
	ENCLOSED AIR CIRCUIT BREAKER
	FIRE ALARM CONTROL PANEL
	FIRE ALARM STATION OUTLET
	VIBRATING BELL OUTLET
	FIRE ALARM BELL
	SERVICE METER
	ENTRANCE

LOAD SCHEDULE

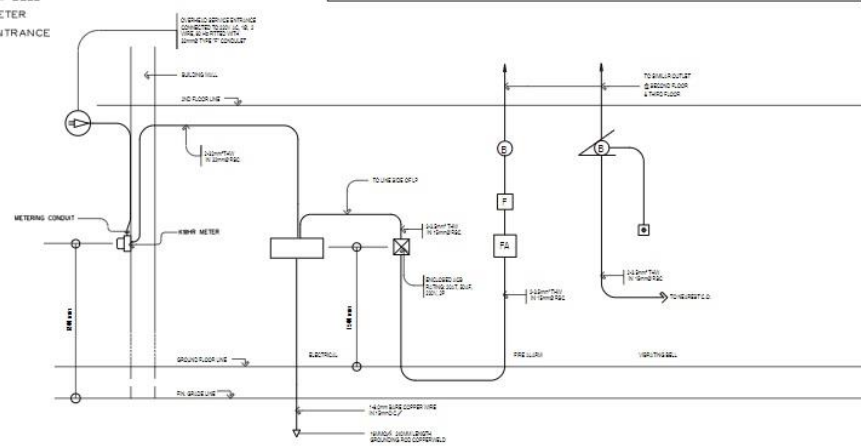
PANELBOARD: LP									
CKT. NO.	DESCRIPTION	VA LOAD	CIRCUIT BREAKER				WIRE & CONDUIT SIZE		
			VOLT	POLE	A.T	A.F			
1	CONVENIENCE OUTLET - 2x150w	1800	230	2	20	80	3.38mm ² THW (N) 18mmØ C		
2	CONVENIENCE OUTLET - 2x150w	1800	230	2	20	80	3.38mm ² THW (N) 18mmØ C		
3	CONVENIENCE OUTLET - 2x150w	1800	230	2	20	80	3.38mm ² THW (N) 18mmØ C		
4	LIGHTING OUTLET	1400	230	2	20	80	3.38mm ² THW (N) 18mmØ C		
5	LIGHTING OUTLET	1600	230	2	20	80	3.38mm ² THW (N) 18mmØ C		
6	LIGHTING OUTLET	1200	230	2	20	80	3.38mm ² THW (N) 18mmØ C		
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9	LIGHTING OUTLET	1100	230	2	20	80	3.38mm ² THW (N) 18mmØ C		
10	S P A R E	1800	230	2	20	80			
11	S P A R E	1800	230	2	20	80			
TOTAL		14200							
1. @ 80% D.F. = 14200 80% x 1.25 = 22.5 A 230 V									
FEEDER: 2-30mm ² THW (N) 32mmØ C PROTECTION: 180 AT, 225 AF, 2P, 230 V									



SITE LOCATION



SINGLE LINE DIAGRAM



RISER DIAGRAM

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING LIBERAL/COAST GUARD PABLO CITY	CONSULTING / DESIGNER VENERANDO D. SANCIN ENGINEER III	REVIEWED BY: FE W. SANCIN CHIEF, ELECTRICAL DIVISION BUREAU OF SCHOOL SUPERVISOR	RECOMMENDING APPROVAL: SANTOS D. SANTOS CHIEF, DIVISION OF BUREAU OF SCHOOL SUPERVISOR	APPROVED FOR ACCREDITATION: OLIVERO S. REYES DEPUTY DIRECTOR II BUREAU OF SCHOOL SUPERVISOR	CONCURRED: RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)	PROJECT TITLE: THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE	PROJECT NO: 01-002 DESIGNED BY: NDS ENGINEERED BY: MNC CHECKED BY: DATE: 6-23-03	OWNER: DEPARTMENT OF EDUCATION DepED	SHEET NO: E-1 3
	SHEET CONTENTS: GENERAL NOTES SINGLE LINE DIAGRAM RISER DIAGRAM	LOAD SCHEDULE LEGEND							

THE REVIEW & APPROVAL OF THIS DRAWING BY THE BUREAU SUPERVISOR SHALL BE THE RESPONSIBILITY OF THE BUREAU SUPERVISOR FOR THE SAFETY OF THE COMPLETED FACILITY AS WELL AS FOR THE FULFILLMENT OF THE SAME DUE TO TRUST DESIGN.

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING, AND AS SUCH MUST NOT BE REPRODUCED OR COPIED IN PART OR IN WHOLE WITHOUT THEIR PERMISSION. ALL CHANGES MUST BE RETURNED WHEN NO LONGER IN USE.

E. Schedule of Loads, Transformers, Generating/UPS Units (Total kVA for each of the preceding items shall be indicated in the schedule)

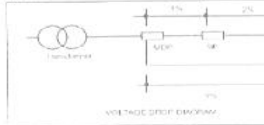
F. One Line Diagram

G. Electrical Design Analysis (see next slide)

NOTE : ELECTRICAL PLANS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ELECTRICAL ENGINEER AND SIGNED BY THE OWNER

2.0 Voltage Drop Calculation

- PEC 2017 2.10.2.2 Conductors-Minimum Ampacity and Size, (a) FPN No 4. Conductors for branch circuit as defined in Article 1.1, sized to prevent a voltage drop exceeding 3% at the farthest outlet of power, heating and lighting loads, or combinations of such loads, and where the maximum voltage drop on both feeders and branch circuits to the farthest outlet does not exceed 5%, provide reasonable efficiency of operation.



2.1 Voltage Drop Formula:

$$VD = 2 \times K \times I \times D / CM$$
$$\%VD = (VD / VS) \times 100$$

Where:

VD = Voltage Drop

%VD = Percent Voltage Drop

K = Conductors Constant,
12.9 for Copper,
21.2 for Aluminum

I = Current

D = Length of Wire

CM = Circular-Mils: The circular mils of the circuit conductor

2.2 Summary of Voltage Drop Calculation

Conductor	Size (AWG)	Type	Length (ft)	Current (A)	VD (V)	%VD	Notes
Feeder	12 AWG	THHN	100	20	0.12	0.12%	
Branch	12 AWG	THHN	25	20	0.03	0.03%	
Total					0.15	0.15%	

Findings: Vd are acceptable

Recommendation: None

All Voltage Drop results were compliant based on PEC 2017 2.15.1.2 FPN No.2 for feeder and branch circuit.

Electrical Design Analysis

Electrical Design Analysis

For

Temporary Electrical Connection(Bunkhouse) of Proposed One-Storey Commercial Bldg. w/ Mezzanine

Location: Brgy. San Jose, Puerto Princesa City, Palawan
Owner: Auto Artist Incorporated

VOLTAGE DROP CALCULATION AND SHORT CIRCUIT ANALYSIS

Prepared by:
MARCO LIVERSO

Approved by:

TIN Number: 314-425-956
Email Add: marcoliverso30@gmail.com

TIN Number: 193-389-743
PTR No. 1632697
Date: 01/03/2022

Electrical Design Analysis

Design Analysis where necessary shall be included on the drawings or may be submitted on separate sheets of uniform size paper, shall be allowed. Below are the contents :

1. Illumination design computations and tabulated lighting levels in lux critical areas in institutional, Industrial recreational & commercial building.
2. Feed lines and protective devices of motors, electrical equipment and appliances indicating types and ratings.
3. Sizes of branch circuit wires, Feeders and bus bars including protective devices.
4. Size and type of service entrance wires, race ways and equipment.
5. Setting / ratings of over current devices.



Design Analysis must be submitted if the circuit Main Circuit Breaker of the electrical system is above 70 Amperes or if it has 2 or more Panel Boards. It must be signed and sealed by the Designed Professional.



BASIS FOR COMPLIANCE FOR ELECTRICAL DESIGN ANALYSIS

NBC MEMORANDUM CIRCULAR No. 02

Series of 2015 – ELECTRICAL DESIGN ANALYSIS PHILIPPINE ELECTRICAL CODE COMPLIANCE

**TO : All Building Officials
City / Municipal Engineers and Others concerned**

In order to attain an electrically safe environment and pursuant to Section 1301 of the National Building Code (PD 1096) and Article 1.3.2 of the Philippine Electrical Code, all Building Officials are hereby enjoined to be stricter in approving Building Permits by requiring the submission of electrical plans that include design analysis showing all the calculations of short circuits, voltage drop and other essential data as requisite for the issuance of Electrical Permit. Likewise, existing buildings, factories and infrastructures with substantial electrical load shall be subjected to inspections and that an updated design analysis and calculations is required to ensure that fire and life safety requirements are being complied.

For strict and immediate compliance of all concerned.


ROGELIO L. SINGSON
Secretary

Department of Public Works and Highways
Office of the Secretary



WIN5V16231



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE SECRETARY
Manila

297.13 DPWH
12-17-2015

DEC 15 2015

NBC MEMORANDUM

CIRCULAR No. **02**
Series of 2015
X-----X

SUBJECT: ELECTRICAL DESIGN ANALYSIS
PHILIPPINE ELECTRICAL CODE
COMPLIANCE

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Secretary

Department of Public Works and Highways
Office of the Secretary



WIN5V16231

7.5.1 erfh/JVD/GRV

