

**GENERAL NOTES:**

- THE ELECTRICAL INSTALLATION HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE AND THE REGULATIONS AND THE REQUIREMENTS OF THE UTILITY COMPANY.
- UNDER THE DIRECT SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER, WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROPERLY FINISHED.
- MATERIALS SHALL BE NEW AND SHALL CONFORM WITH THE PROVISIONS OF THE PHILIPPINE ELECTRICAL CODE, IN EVERY CASE WHERE SUCH A STANDARD HAS BEEN ESTABLISHED.
- ALL CONDUITS SHALL BE OF AS FOLLOWS:
  - UPVC FOR EMBEDDED IN CONCRETE FOR LIGHTING, POWER, AND TELEPHONE SYSTEMS.
  - RIGID STEEL CONDUIT FOR MAIN SERVICE ENTRANCE.
- ELECTRICAL TRADE SIZE SHALL BE USED, A MINIMUM OF 15mm<sup>ø</sup> FOR CONDUITS AND IN NO CASE SHALL THERE BE MORE THAN THE EQUIVALENT OF FOUR CONDUITS SHALL BE PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
- ALL ENDS OF CONDUITS SHALL BE PLUGGED TO PREVENT THE ENTRANCE OF WATER, MOISTURE AND FOREIGN MATTER AFTER INSTALLATION.
- SINGLE CONDUIT, MINIMUM SIZE OF WIRES SHALL BE 3 STRANDS UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK. THE FOLLOWING TESTS SHALL BE PERFORMED BY THE CONSTRUCTION INDUSTRY OF THE OWNER'S REPRESENTATIVE:
  - INSULATION RESISTANCE TEST (500 V.D.C.)
  - GROUND RESISTANCE TEST (25 OHMS)
  - OPERATIONAL TEST
  - PHASE SEQUENCE TEST
- ALL BRANCH CIRCUIT FEEDERS SHALL BE PROVIDED WITH ADDITIONAL GROUNDING THROUGH THE SERVICE METER AND THE SERVICE PANEL. TABLE 4.2.6.5 EVEN ON DRAWINGS WHERE IT IS NOT SHOWN. EQUIPMENT GROUNDING SHALL BE AS SHOWN ON DRAWINGS.
- ALL ELECTRICAL CIRCUITS SHALL BE STRICTLY WIRED ACCORDING TO THE PANELBOARD SCHEDULE.
- ALL RECEPTACLE OUTLETS SHALL BE OF GROUNDING TYPE .
- TELEPHONE WIRING TO EACH OUTLET SHALL BE 4-CONDUCTOR.
- ALL TELEPHONE OUTLET SHALL BE 4-PIN MODULAR JACK TYPE.

**LEGENDS AND SYMBOLS**

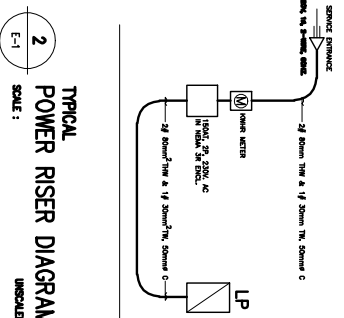
- ⊙ **PANELT**
- 1-40W FLUORESCENT LAMP FIXTURE
- ⊖ 30W FLUORESCENT LAMP FIXTURE
- ⊗ **CEILING FAN WITH 4 LIGHTING FIXTURE**
- ⊕ **CONVENIENCE OUTLET--ABOVE COUNTER**
- ⊖ **CONVENIENCE OUTLET**
- ⊕ **CONVENIENCE OUTLET--WEATHER PROOF**
- ⊖ **RANGE OUTLET**
- ⊕ **UNDERCOUNTER CONVENIENCE OUTLET**
- ⊖ **REFRIGERATOR OUTLET**
- ⊕ **WASHING MACHINE OUTLET**
- ⊖ **OVEN OUTLET**
- ⊕ **AIRCONDITIONING UNIT OUTLET**
- ⊖ **TELEPHONE CABLE OUTLET**
- ⊕ **TV CABLE OUTLET**

**TYPICAL LOAD SCHEDULES & COMPUTATIONS**

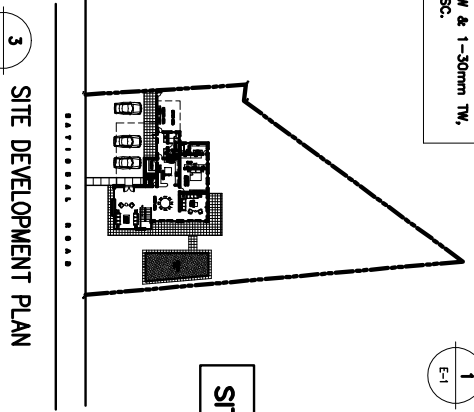
PANEL LP			VOLTS	VA LOAD	AMPERE LOAD	CIRCUIT BREAKER	SERVICE WIRE	CONDUIT
BR. NO.	C.O.	OTHERS			P	AF	AT	(MM <sup>2</sup> THHN (MM))
1	9		230	1620	7.04	2	50	2-3.5
2	6		230	1080	4.69	2	50	2-3.5
3	7		230	1280	5.47	2	50	2-3.5
4		RFR	230	1000	4.34	2	50	2-3.5
5		RANGE	230	2500	10.86	2	50	2-5.5
6		RANGE HOOD	230	1500	6.52	2	50	2-3.5
7	9		230	1620	7.04	2	50	2-3.5
8	9		230	1620	7.04	2	50	2-3.5
9	6		230	1080	4.69	2	50	2-3.5
10	20		230	1190	5.17	2	50	2-3.5
11	15	2 FM	230	1598	6.94	2	50	2-3.5
12	6		230	192	0.834	2	50	2-3.5
13	8	1 FM	230	894	3.88	2	50	2-3.5
14	15	1 FM	230	1082	4.61	2	50	2-3.5
15	10	2 FM	230	1188	5.13	2	50	2-3.5
16	6	1 FM	230	608	2.64	2	50	2-3.5
17		ACU	230	1500	6.52	2	50	2-5.5
18		ACU	230	1500	6.52	2	50	2-5.5
19		ACU	230	1500	6.52	2	50	2-5.5
20		ACU	230	1500	6.52	2	50	2-5.5
21		ACU	230	1500	6.52	2	50	2-5.5
		<b>T O T A L</b>		<b>27512</b>	<b>119.61</b>			

LP=119.61 A x 80% D.F. + 25% (ϕ)  
= 97.68 AMP.

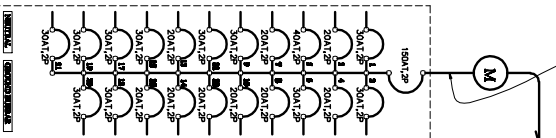
MAIN: 100 AF, 150AT, 2P, 230VA CB  
USE: 2# 80mm<sup>2</sup> THW & 1-30mm TW,  
IN 50mm<sup>ø</sup> RSC.



**TYPICAL POWER RISER DIAGRAM**  
UNSCALED



**SITE DEVELOPMENT PLAN**  
UNSCALED



**SCHEMATIC DIAGRAM**  
UNSCALED



**LOCATION MAP**  
UNSCALED

**PROPOSED 2 STOREY RESIDENCE**

**RACHEL D. BERNARDIS**

**GENERAL NOTES, LEGENDS AND SYMBOLS, POWER RISER DIAGRAM, SCHEMATIC DIAGRAM, LOAD SCHEDULES AND LOCATION MAP**

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