



| PB-CLINIC | | | | | | | | | | | | | | | | |
|--|-------------------|----------|--|-------|--------|------|-----------------|-------|-------|----------------------------|----|------|---------------------------------|---------|----------------------------------|-----------------|
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | KVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT | | | FEEDER BRANCH CIRCUIT | | | CONDUIT SIZE |
| | QTY. | Unit VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 1 | 2760 | 2.0 HP, ACU | 230 | SINGLE | 2.76 | 12.00 | | | 20 | - | 2 | 2-5.5 mm ² THHN/THWN | - | 1-5.5 mm ² THHN/THWN | 15 mmØ PVC PIPE |
| 2 | 1 | 360 | 2 x CONVENIENCE OUTLET | 230 | SINGLE | 0.36 | 5.48 | | | 20 | - | 2 | 2-3.5 mm ² THHN/THWN | - | 1-2.0 mm ² THHN/THWN | 15 mmØ PVC PIPE |
| 3 | 1 | 540 | 3 x CONVENIENCE OUTLET | 230 | SINGLE | 0.54 | | | 2.35 | 20 | - | 2 | 2-3.5 mm ² THHN/THWN | - | 1-2.0 mm ² THHN/THWN | 15 mmØ PVC PIPE |
| 4 | 1 | 1440 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 1.44 | | | 6.26 | 20 | - | 2 | 2-3.5 mm ² THHN/THWN | - | 1- 2.0 mm ² THHN/THWN | 15 mmØ PVC PIPE |
| 5 | 1 | 1260 | 7 x CONVENIENCE OUTLET | 230 | SINGLE | 1.26 | | 1.57 | | 20 | - | 2 | 2-3.5 mm ² THHN/THWN | - | 1-2.0 mm ² THHN/THWN | 15 mmØ PVC PIPE |
| 6 | 1 | 2364 | 16 x DOWNLIGHT + 1 x ORBIT FAN + 17 x LED LIGHT TUBE + 3 x EXHAUST FAN + 10 x CONVENIENCE OUTLET | 230 | SINGLE | 2.36 | | 10.28 | | 60 | - | 2 | 2-14 mm ² THHN/THWN | - | 1-8.0 mm ² THHN/THWN | 20 mmØ PVC PIPE |
| 7 | 1 | 3335 | 2.5 HP, ACU | 230 | SINGLE | 3.34 | 14.50 | | | 20 | - | 2 | 2-5.5 mm ² THHN/THWN | - | 1-5.5 mm ² THHN/THWN | 15 mmØ PVC PIPE |
| 8 | 1 | 1840 | 1 HP, ACU | 230 | SINGLE | 1.84 | 8.00 | | | 20 | - | 2 | 2-5.5 mm ² THHN/THWN | - | 1-5.5 mm ² THHN/THWN | 15 mmØ PVC PIPE |
| 9 | 1 | 2160 | 12 x CONVENIENCE OUTLET + 1 x FLOOR RECEPTACLE | 230 | SINGLE | 2.16 | | | 9.39 | 20 | - | 2 | 2-5.5 mm ² THHN/THWN | - | 1-5.5 mm ² THHN/THWN | 15 mmØ PVC PIPE |
| 10 | 1 | 1840 | 1.0 HP, ACU | 230 | SINGLE | 1.84 | | | 8.00 | 30 | - | 2 | 2-5.5 mm ² THHN/THWN | - | 1-5.5 mm ² THHN/THWN | 15 mmØ PVC PIPE |
| 11 | 1 | 1587 | 0.75 HP, ACU | 230 | SINGLE | 1.59 | | 6.90 | | 30 | - | 2 | 2-5.5 mm ² THHN/THWN | - | 1-3.5 mm ² THHN/THWN | 15 mmØ PVC PIPE |
| 12 | 1 | 443 | 16 x DOWNLIGHT + 3 x ORBIT FAN + 4 x LED LIGHT TUBE + 1 x EXHAUST FAN | 230 | SINGLE | 0.44 | | 1.93 | | 15 | - | 2 | 2-3.5 mm ² THHN/THWN | - | 1-2.0 mm ² THHN/THWN | 15 mmØ PVC PIPE |
| 13 | 1 | 1840 | 1 HP, ACU | 230 | SINGLE | 1.84 | 8.00 | | | 20 | - | 2 | 2-5.5 mm ² THHN/THWN | - | 1-5.5 mm ² THHN/THWN | 15 mmØ PVC PIPE |
| 14 | 1 | 1840 | 1 HP, ACU | 230 | SINGLE | 1.84 | 8.00 | | | 20 | - | 2 | 2-5.5 mm ² THHN/THWN | - | 1-5.5 mm ² THHN/THWN | 15 mmØ PVC PIPE |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 55.98 | 20.67 | 26.00 | | | | | | | |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | | | | | | | |
| TOTAL CURRENT IN AMPERES | | 102.65 | COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR | | | | | | | | | | | | | |
| TOTAL CONNECTED LOAD VA | | 23609 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ) + 3Ø) x DF IC = 1.25 x 12 + [(1.732 x (1.25 x 55.08 + 65.87) + 0] x 0.8 IC = 201.67 Amperes | | | | | | | | | | | | | |
| ENCLOSURE | | NEMA - 1 | USE: 3-100 mm ² THHN/THWN, 1-22.0 mm ² , Stranded, Copper, in 50 mm Ø PVC 1"PE | | | | | | | | | | | | | |
| | | | SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR IP = 250% HML + (1.732 x (125% of HCL + HØ) + 3Ø) x DF IP = 2.5 x 12 + [(1.732 x (1.25 x 55.08 + 65.87) + 0] x 0.8 IP = 210.67 Amperes | | | | | | | | | | | | | |
| | | | USE: 250 AT, INVERSE TIME, 230V, 3P | | | | | | | | | | | | | |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | | | | 225 | - | 3 | 3-100 mm ² THHN/THWN | - | 1-22.0 mm ² THHN/THWN | 50 mmØ PVC PIPE |

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| CHECKED / REVIEWED BY: | UNDER THE DIRECT SUPERVISION OF : | SEAL | R.A. 9266 Section 33 Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the copies for which they are made is executed or not. It shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, whether executed partly in whole, without the written consent of architect or author of said documents. | PROJECT TITLE: | PROJECT OWNER: | DRAWING CONTENTS | DESIGNED BY: TANO DATE DRAFTED: 09-04-2024 DATE UPDATED: 02-15-2024 DRAFTED BY: RAS OBISO APPROVED BY: | ISSUED FOR: <input type="checkbox"/> OWNER'S APPROVAL <input type="checkbox"/> AS-BUILT <input type="checkbox"/> BIDDING <input type="checkbox"/> BUILDING PERMIT <input type="checkbox"/> CONSTRUCTION <input type="checkbox"/> ESTIMATE <input type="checkbox"/> FABRICATION | REVISIONS: NO. DATE DESCRIPTION | DRAWING NO. |
| | | | | MEDICAL AND DENTAL CLINIC PROPOSED SCHEDULE OF LOADS | EE481 EEK2414 CAFSTONE 1 | | | | | |
| | | | | LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY | | | | | | |