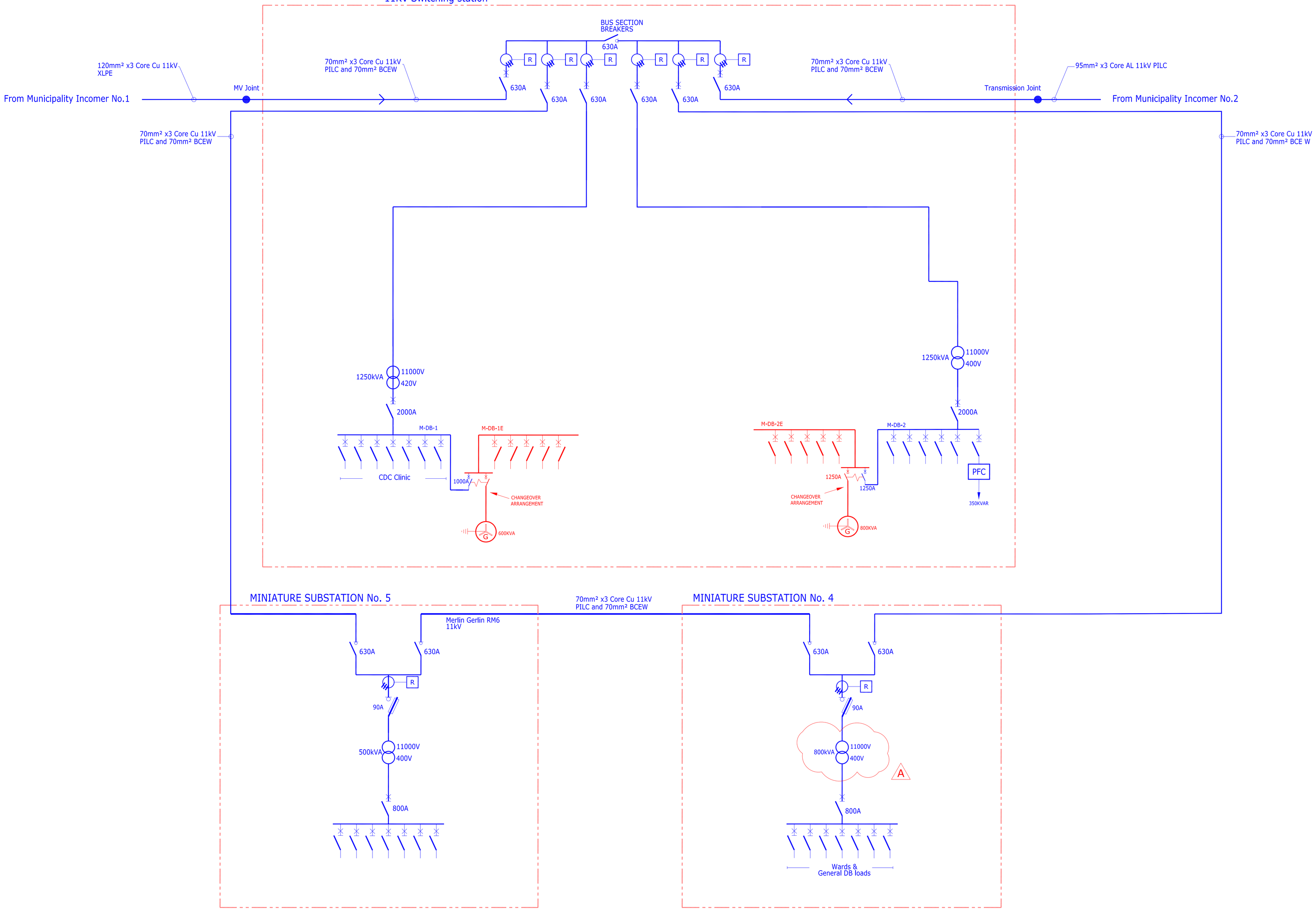
Ngwelezane Hospital
11KV Switching station



GENERAL NOTES

A) THIS DRAWING TO BE USED FOR ELECTRICAL PURPOSES ONLY.

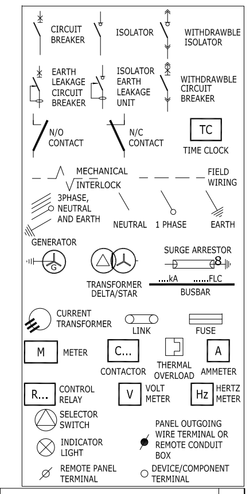
B) DO NOT SCALE THIS DRAWING.

C) REFER TO ARCHITECTS AND STRUCTURAL ENGINEERS DRAWINGS FOR ALL BUILDING DIMENSIONS, LATEST BUILDING REVISIONS AND SERVICES.

D) THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE ELECTRICAL SPECIFICATIONS.

E) ALL WORK TO COMPLY WITH RELEVANT STANDARD CODES OF PRACTICE, SPECIFICATIONS AND REGULATIONS.

F) NOT WITHSTANDING ANYTHING TO THE CONTRARY, ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED IN ANY MATERIAL FORM (INCLUDING PHOTOCOPYING OR STORING IN ANY MEDIUM OR BY ELECTRONIC MEANS AND WHETHER OR NOT TRANSIENTLY OR INCIDENTLY TO SOME OTHER USE OF THIS DRAWING) AND ALSO, THIS DRAWING MAY NOT BE USED FOR ANY PURPOSE OR REASON OTHER THAN FOR WHICH IT WAS ORIGINALLY ISSUED, WITHOUT THE WRITTEN PERMISSION OF IBUYA CONSULTING ENGINEERS



REV	DATE	BY	DESCRIPTION	CHK
A	29/03/22	RM	Revised Mini-sub 4 Size	SN
0	18/05/21	RM	Original Issue	SN

REVISIONS

IBUYA Consulting Engineers
"POWERING DEVELOPMENT"
BLOCK D
ESSEX PARK
46 ESSEX TERRACE
WESTVILLE
P.O. BOX 1692
WANDSBECK 3631
TEL: +27 (031) 2667332
FAX: +27 (031) 2667340
E-mail: ibuya@ibuya.co.za

PROJECT/SERVICES

Ngwelezane Hospital
Proposed New Orthotic & Prosthetics Centre
MV Substation

TITLE

Proposed Option 4 - MV Reticulation Schematic

ENGINEER:	DRAWN BY	DATE:	CHECKED	SCALE:
SN	RM	May '21	SN	NTS
				PAPER SIZE: A1
PROJECT No. 20013	DRAWING No. 402	SHEET:		REV: A

FILE:20013_402 LAYERS:

NOTES: (1) - Contractor to ensure max distance between draw boxes 20 metres notwithstanding anything to contrary. (2) - Draw boxes required after every second 90 deg. bend or 180 deg. total of slow bends. (3) - All unwired conduits to be provided with draw wires. These will be withdrawn and checked at random. (4) - Cast in conduits to be spaced 35mm. minimum.

- S 100x100 CONDUIT BOX.
- S 100x100 CONDUIT BOX AT 300AFFL.
- S 100x100 CONDUIT BOX AT 1400AFFL.
- L 100x50 CONDUIT BOX
- L 100x50 CONDUIT BOX AT 300AFFL.
- L 100x50 CONDUIT BOX AT 1400AFFL.
- ROUND CONDUIT BOX.
- ROUND DRAW BOX
- S 100x100 DRAW BOX
- P 100x50 BOX BEHIND POWER SKIRTING
- U CONDUIT TURNED UP ("D" FOR DOWN)
- D DOWN CONDUCTOR TO EARTH OR EARTH TIE.
- DM CAM etc. ROUND CONDUIT BOX FOR:
  - DM - DOOR MONITOR
  - CAM - CAMERA
  - AA - ACCESS ALARM
  - AC - ACCESS CONTROL
  - CR - CARD READER
  - COM - COMMUNICATION/INTERCOM
  - BGM - BACK GROUND MUSIC
  - EL - ELECTRIC LOCK/STRIKE
- 20mm. DIA. CONDUIT.
- 25mm. DIA. CONDUIT.
- 32mm. DIA. CONDUIT.
- 50mm. DIA. CONDUIT.
- SECTION OF CONDUIT OMMITED FOR CLARITY.
- S SURFTX
- U TWIN AND EARTH
- CABLE ROUTE
- OC OVERHEAD CAST-IN
- OS OVERHEAD ON SURFACE OR LAID ON CEILING.
- FC FLOOR SLAB CAST-IN.
- POWER SKIRTING
- TRUNKING
- CABLE SLEEVE.
- CABLE TRAY/LADDER
- 100 SQUARE GALV. STEEL DRAW TRAY SIZE AS SHOWN.
- T TELEPHONE JUNCTION BOX.
- I INTERCOM JUNCTION BOX.
- D DATA/COMMS JUNCTION BOX.
- S SECURITY, ETC. JUNCTION BOX
- DISTRIBUTION BOARD POSITION.
- DB-1 BOARD DESIGNATION NUMBER.
- 16AMP. SWITCHED SOCKET OUTLET (SSO).
- DOUBLE 16AMP. SSO.
- 16AMP. SSO ON PEDESTAL.
- 16AMP. CLEAN SSO WITH RED COVER PLATE. SQUARE EARTH AND PLUG TOP.
- 16AMP. CLEAN SSO WITH RED COVER PLATE. SQUARE EARTH AND PLUG TOP ON PEDESTAL
- 3 PHASE SSO.
- 13AMP. SQUARE PIN SSO.
- 5AMP. 3 PIN UNSWITCHED SOCKET OUTLET.
- INTERMEDIATE LIGHT SWITCH
- SINGLE LEVER ONE WAY LIGHT SWITCH.
- TWO WAY LIGHT SWITCH
- FLUORESCENT LUMINAIRE
- BULKHEAD/DOWNLIGHTER, ETC.
- WALL MOUNTED LUMINAIRES
- POLE MOUNTED LUMINAIRE.
- TWO POLE ISOLATOR.
- THREE POLE ISOLATOR.
- FOUR POLE ISOLATOR.
- TELEPHONE POINT.
- TELEPHONE POINT ON PEDESTAL.
- DIRECT OUTSIDE LINE TELEPHONE POINT (CALL BOX).
- TV OUTLET.
- DATA/COMMS OUTLET.
- INTERCOM REDIFFUSION SPEAKER POSITION.
- BELL PUSH.
- BELL OUTLET.
- S SIGN POINT.
- CLOCK OUTLET.
- PHOTOCELL
- REFERENCE TO QUANTITY i.e. 3No.
- 2 REFERENCE TO A DETAIL i.e. DETAIL 2.
- 4 REFERENCE TO AN ELECTRICAL NOTE i.e. NOTE 4.
- # 34 REFERENCE TO A STANDARD DRAWING i.e. STANDARD DRAWING No.34
- 6 CABLE NUMBER - REFER CABLE SCHEDULE FOR DETAILS.
- B LUMINAIRE TYPE "B" - REFER LUMINAIRE SCHEDULE.

A1_MST_1