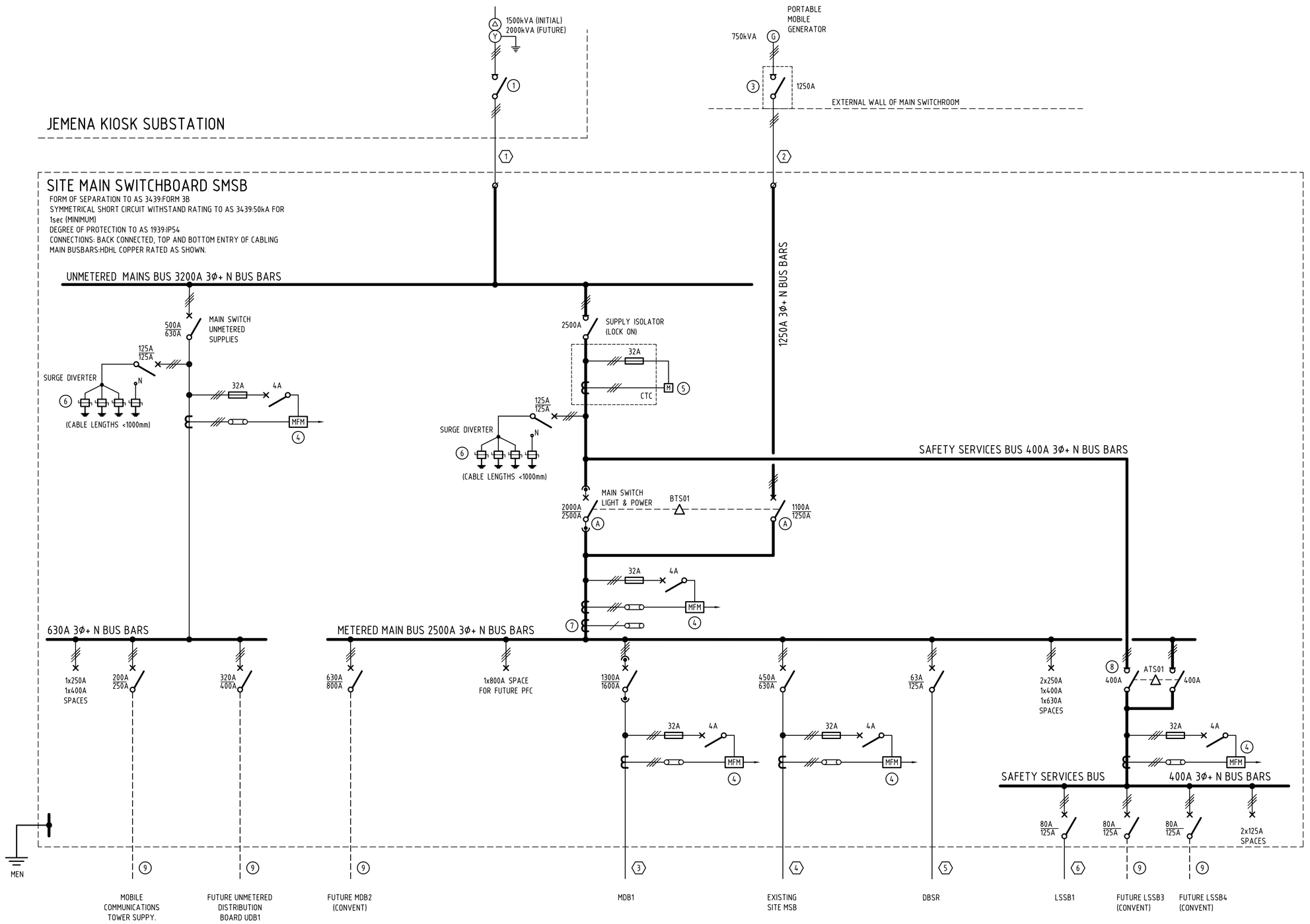
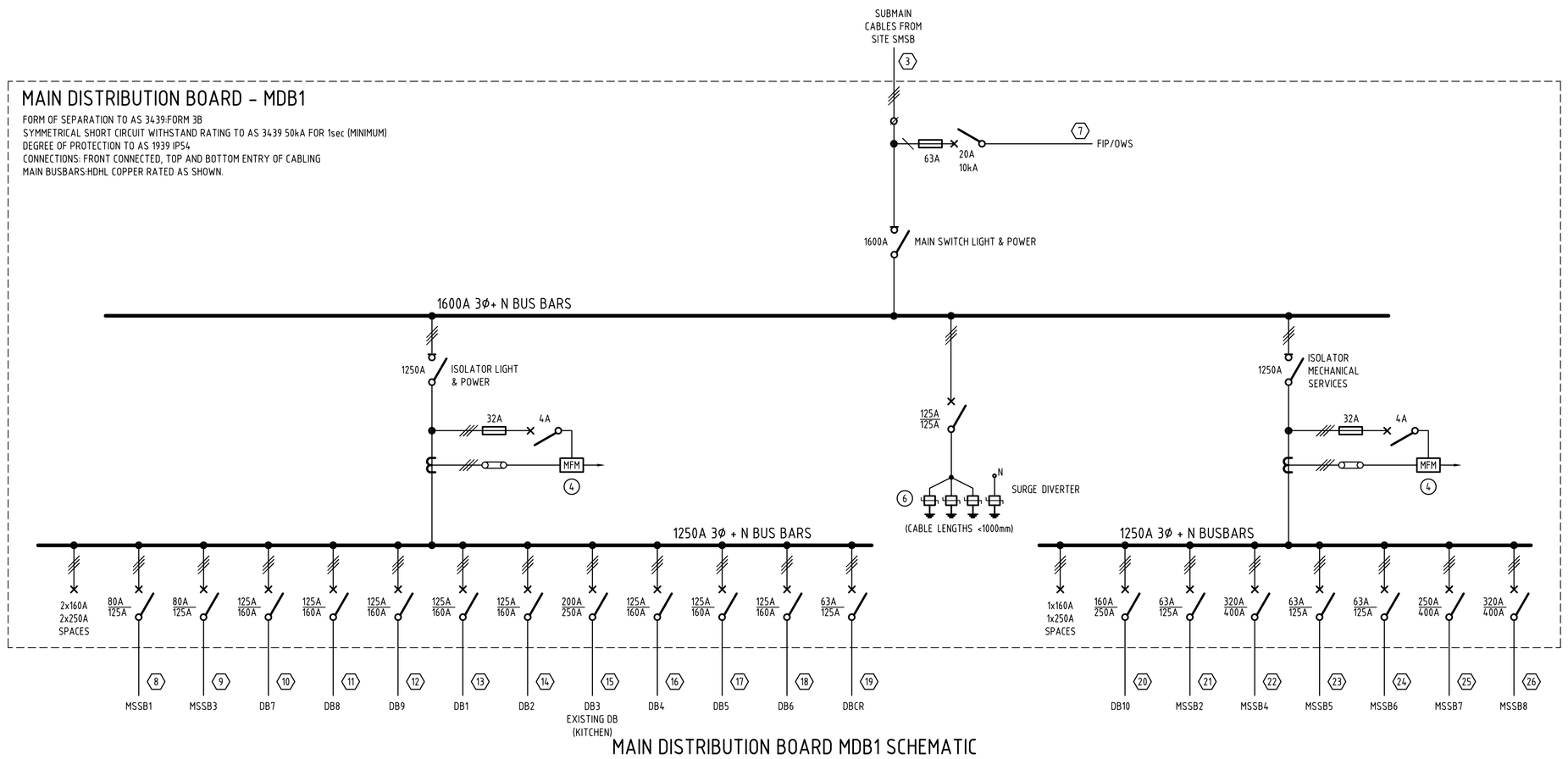


SITE MAIN SWITCHBOARD SMSB SCHEMATIC



MAIN DISTRIBUTION BOARD MDB1 SCHEMATIC

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL CIRCUIT BREAKERS IN SMSB AND MDB1 SHALL HAVE A SYMMETRICAL INTERRUPTING CAPACITY OF 50kA AT 400V MINIMUM.
2. LABEL ALL CIRCUIT BREAKERS, SWITCHGEAR AND ELECTRICAL COMPONENTS ON SMSB AND MDB1 PROVIDE A LABEL SCHEDULE WITH THE WORKSHOP DRAWINGS FOR APPROVAL.
3. CURRENT TRIP SETTING OF CIRCUIT BREAKERS SHALL BE ADJUSTED ON SITE TO SUIT FINAL CONNECTED LOADS AND RESULTS FROM THE DISCRIMINATION REPORT.
4. ALL FAULT CURRENT LIMITING FUSES SHALL BE BUSBAR MOUNTED.
5. LABEL ALL SUBMAIN CABLES EMNATING FROM THE SWITCHBOARDS WITH CABLE SIZE, TYPE AND THE LABEL OF THE DISTRIBUTION BOARD THE SUBMAIN SUPPLIES.
6. ALL CT'S FOR METERING AND PFC MONITORING SHALL BE INSTALLED ON REMOVABLE BUS BAR LINKS.
7. ALL CIRCUIT BREAKERS RATED 250A AND ABOVE SHALL BE PROVIDED WITH ELECTRONIC TRIP UNITS.
8. NOTE NOT USED.
9. THE SCHEMATIC FOR THE SWITCHBOARDS SHALL BE ISSUED TO THE ELECTRICAL INSPECTOR ASSIGNED TO THIS PROJECT TO OBTAIN WRITTEN APPROVAL OF THE SCHEMATICS PRIOR TO COMMENCING THE SHOP DRAWINGS.
10. THE LAYOUT OF THE SWITCHBOARDS SHALL BE DESIGNED TO FIT INTO THE SPACE PROVIDED TAKING INTO CONSIDERATION THE LOCATION OF THE INCOMING CONSUMER MAINS.
11. REFER TO DRAWING E002 FOR DISTRIBUTION BOARDS STAGING REQUIREMENTS.
12. REFER TO APPENDIX E2 IN THE SPECIFICATION FOR THE SCHEDULE OF SUBMAINS.
13. PROVIDE SHOP DRAWINGS OF THE SWITCHBOARDS TOGETHER WITH THE DISCRIMINATION REPORT AS PER AS/NZS 3000 FOR APPROVAL PRIOR TO MANUFACTURE.. REFER TO THE SPECIFICATION.
14. SYMBOL ⬡ ON THIS DRAWING DENOTES SUBMAIN CABLE NUMBER IN SCHEDULE OF SUBMAINS.

SCHEMATIC REFERENCE NOTES:

1. POINT OF SUPPLY ISOLATOR. CONTRACTOR TO PREPARE AND LUG CABLE ENDS. CO-ORDINATE WITH JEMENA FOR FINAL CONNECTIONS OF THE MAINS CABLES TO THE POINT OF SUPPLY ISOLATOR.
2. NOTE NOT USED.
3. 125A, 400V, 50kA LOAD BREAK FAULT MAKE ISOLATOR FOR CONNECTION OF SUPPLY CABLES FROM A PORTABLE MOBILE GENERATOR. ENCLOSE ISOLATOR IN A WALL MOUNTED WEATHERPROOF (IP56) ENCLOSURE WITH LOCKABLE DOOR. DOOR TO BE INTERLOCKED WITH THE ISOLATOR.
4. MULTI FUNCTION METER SHALL BE NHP NEMO 72 LRS 485 OR APPROVED EQUIVALENT.
5. ELECTRICITY RETAILER REVENUE METER ON METER PANEL WALL MOUNTED IN SWITCHROOM.
6. 3 PHASE SURGE DIVERTER TYPE NHP CPT CS1 100 230 IR, 100kA FOR EACH PHASE AND CPT CS1-100N FOR NEUTRAL OR APPROVED EQUIVALENT.
7. CT ON RED PHASE ONLY FOR FUTURE POWER FACTOR CORRECTION (PFC) MONITORING.
8. MAINS ISOLATOR TO BE "LOCKED ON" WHEN THE GENERATOR IS NOT PHYSICALLY CONNECTED AND SYSTEM IS OPERATING ON MAINS SUPPLY ONLY.
9. SUBMAIN CABLES PROVIDED AND TERMINATED UNDER SEPARATE CONTRACTS. ALLOW SUFFICIENT SPACE IN CABLE CHAMBERS OF SMSB FOR INSTALLATION AND SUPPORT OF CABLES.

(A) KEY INTERLOCK WITH ONE KEY 'A'

ABBREVIATIONS

ATS	AUTOMATIC TRANSFER SWITCH WITH MAINS FAILURE SENSING
BTS	BASIC TRANSFER SWITCH
CTC	CURRENT TRANSFORMER CHAMBER
DB	DISTRIBUTION BOARD
DBCR	DISTRIBUTION BOARD COMMUNICATIONS ROOM
DBSR	DISTRIBUTION BOARD SWITCH ROOM
FIP	FIRE INDICATOR PANEL
MDB	MAIN DISTRIBUTION BOARD
MFM	MULTI FUNCTION METER
MSB	MAIN SWITCH BOARD
MSSB	MECHANICAL SERVICES SWITCH BOARD
OWS	OCCUPANCY WARNING SYSTEM
PFC	POWER FACTOR CORRECTION
UDB	UNMETERED DISTRIBUTION BOARD

Rev	Description	Checked	Date
A	TENDER ISSUE	JVG	18.04.11
B	REVISED TENDER ISSUE	JVG	16.05.11
C	REVISED TENDER ISSUE	JVG	03.06.11
D	CONSTRUCTION ISSUE	SL	21.11.11

Xref Date

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Project
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EXISTING AGED CARE BUILDING &
NEW RETIREMENT ACCOMMODATION
230 ROSANNA RD, ROSANNA

Title
ELECTRICAL SERVICES
SITE MAIN SWITCHBOARD SMSB &
MAIN DISTRIBUTION BOARD MDB1
SCHEMATICS

Drawn	PMS	Date	JULY 2010
Checked	JV	Scale	@ B1
		Job No	4906

Drawing No **E003** Revision **D**

CONSTRUCTION ISSUE

THESE DRAWINGS HAVE BEEN MARKED "CONSTRUCTION ISSUE" ON THE UNDERSTANDING THAT THEY ARE TO BE USED AS THE BASIS FOR THE COMMENCEMENT OF THE SUB CONTRACTOR'S SHOP DRAWING PROCESS.

Plot by: silberts
Drawing File: E-S01.DWG
Scale: 1:100
Date: 22/11/2011
Time: 9:52 A.M.

B1