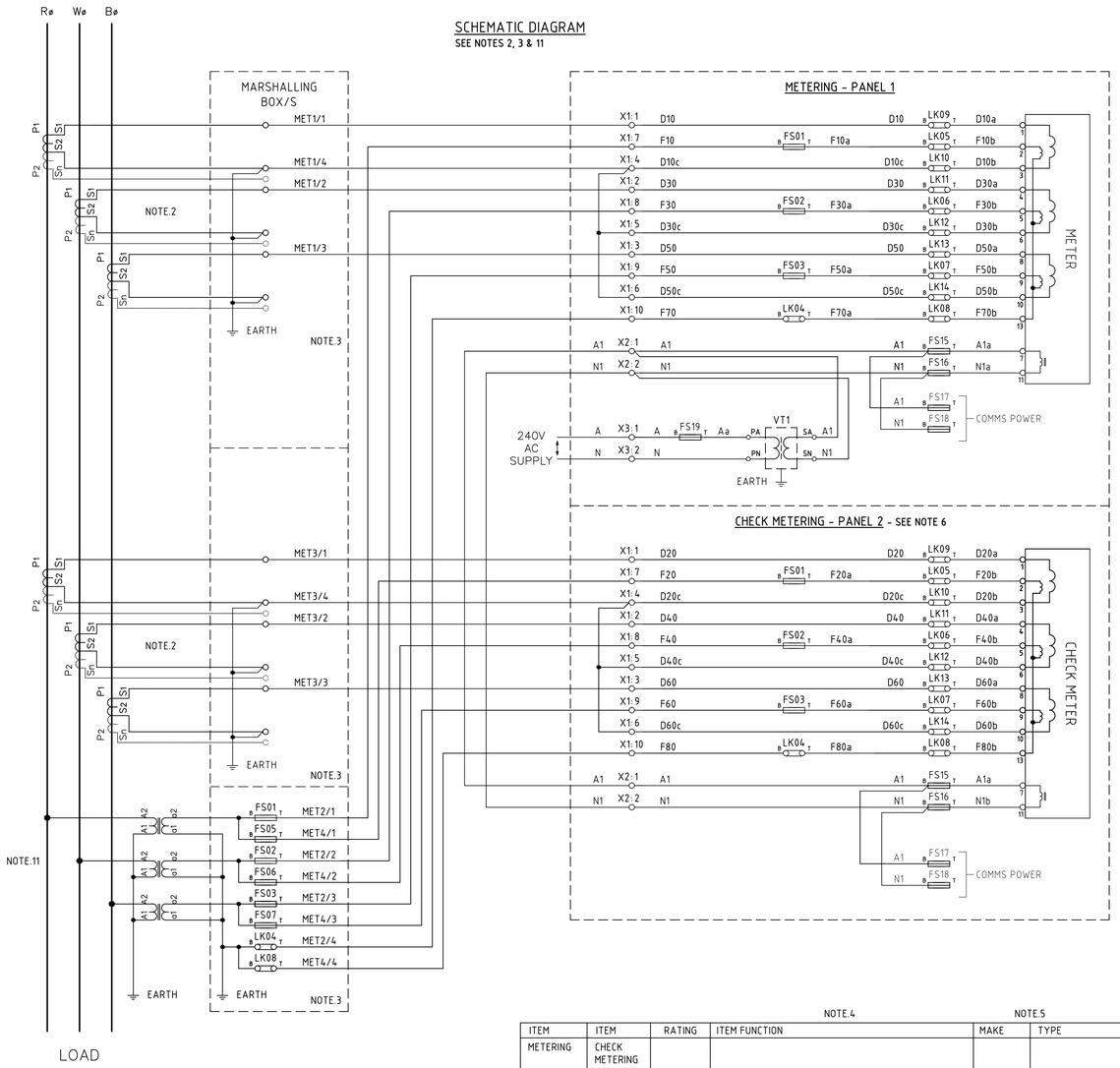
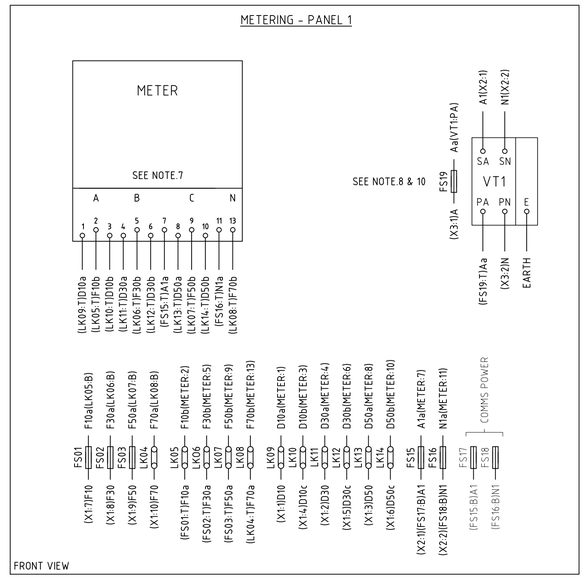
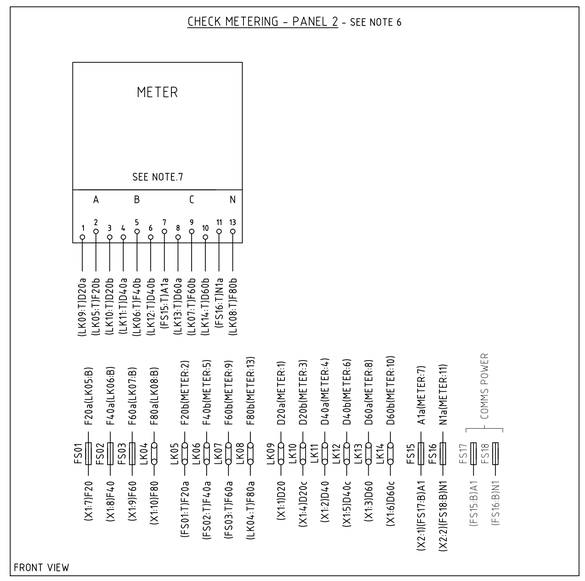
SCHEMATIC DIAGRAM

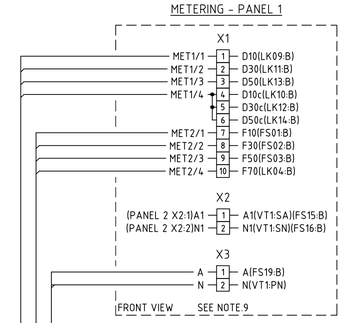
SEE NOTES 2, 3 & 11

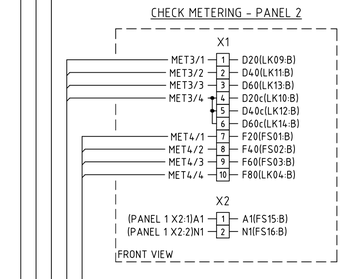


WIRING DIAGRAM









NOTES:

1. ALL PANELS, CABLING, AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE HIGH VOLTAGE METERING REQUIREMENTS SETOUT IN ES3.
2. ALL CT RATIOS SHALL BE BROUGHT OUT AND TERMINATED WITHIN THE MARSHALLING BOX.
3. ALL FUSES AND LINKS CONTAINED WITHIN THE MARSHALLING BOX/S SHALL BE NUMBERED AND LABELLED APPROPRIATELY. A CORRESPONDING LEDGER WITH EACH ITEMS FUNCTION IS TO LAMINATED AND ATTACHED TO THE MARSHALLING BOX DOOR.
4. THE AC FUSE/TEST LINK/TERMINATIONS FUNCTION TABLE OR EQUIVALENT IS TO BE PRINTED OUT, LAMINATED AND APPROPRIATELY ATTACHED TO THE REAR OF THE PANELS ENCLOSURE ACCESS DOOR OR LID, OR ON THE PANEL ITSELF IF AN ENCLOSURE IS NOT USED.
5. PART NUMBERS QUOTED IN THIS DOCUMENT REFER TO COMMONLY USED EQUIPMENT AND SHOULD BE USED AS A GUIDE. ALL PARTS CAN BE OF THE SAME TYPE OR EQUIVALENT.
6. IF CHECK METERING IS TO BE INSTALLED, A SEPARATE 600mm (h) X 600MM (w) ENCLOSURE MUST BE INSTALLED TO ACCOMODATE THE CHECK METERING AND ASSOCIATED EQUIPMENT.
7. IT IS PREFERENCE THAT THE INSTALLED METER SHALL HAVE AN INTERNAL CHANGEOVER SCHEME IN THE EVENT THAT THE AUXILIARY SUPPLY FAILS.
8. THE 240/110V AC TRANSFORMER SHALL HAVE PROVISION TO PREVENT CONTACT WITH LIVE EXPOSED CONDUCTORS. ALL CABLING ASSOCIATED WITH THE TRANSFORMER ON THE FRONT SIDE OF THE PANEL SHALL BE DOUBLE INSULATED. FS19 SHALL BE INSTALLED EXTERNAL TO THE DIN MOUNTED EQUIPMENT WITHIN THE ENCLOSURE, THERE MUST ALWAYS BE SEGREGATION OF THE 110V DIN MOUNTED EQUIPMENT TO THE 240V AUXILIARY SUPPLY. THE VT SHOWN IS FOR ILLUSTRATION PURPOSES ONLY.
9. THE 240V INCOMING TERMINATIONS (X3) SHALL HAVE A COVER THAT PREVENTS CONTACT WITH LIVE EXPOSED CONDUCTORS, A STICKER SHALL BE PLACED ADJACENT INDICATING THAT THE VOLTAGE WITHIN IS 240V.
10. A STICKER SHALL BE PLACED ADJACENT INDICATING THE AUXILIARY SUPPLY VOLTAGE LEVEL 240V.
11. THE PRIMARY CIRCUIT OF THE METERING VT MUST BE PROTECTED BY A HIGH SPEED PROTECTION DEVICE. CONSIDERATION SHOULD BE GIVEN TO INSTALLATION OF A PRIMARY PROTECTION DEVICE FOR THE VT EVEN WHEN THE VT IS INSTALLED WITHIN A HIGH SPEED PROTECTION ZONE, THIS MAY PREVENT INTERRUPTION OF CUSTOMER SUPPLY IN THE CASE OF A VT FAILURE.

NOTE.4 NOTE.5

ITEM METERING	ITEM CHECK METERING	RATING	ITEM FUNCTION	MAKE	TYPE
FS01	FS01	4A	METER 110V VT POTENTIAL FUSE - REDØ	ALSTOM	SAFECLIP SC20H BLACK
LK02	LK02	4A	METER 110V VT POTENTIAL FUSE - WHITEØ	ALSTOM	SAFECLIP SC20H BLACK
FS03	FS03	4A	METER 110V VT POTENTIAL FUSE - BLUEØ	ALSTOM	SAFECLIP SC20H BLACK
FS04	FS04	LINK	METER 110V VT POTENTIAL LINK - NEUTRAL	ALSTOM	SAFECLIP SC20HWH WHITE
LK05	LK05	-	METER POTENTIAL TEST LINK - REDØ	PHOENIX	URTK/S
LK06	LK06	-	METER POTENTIAL TEST LINK - WHITEØ	PHOENIX	URTK/S
LK07	LK07	-	METER POTENTIAL TEST LINK - BLUEØ	PHOENIX	URTK/S
LK08	LK08	-	METER POTENTIAL TEST LINK - NEUTRAL	PHOENIX	URTK/S
LK09	LK09	-	METER CURRENT TEST LINK - REDØ POLARITY	PHOENIX	URTK/S
LK10	LK10	-	METER CURRENT TEST LINK - REDØ NON POLARITY	PHOENIX	URTK/S
LK11	LK11	-	METER CURRENT TEST LINK - WHITEØ POLARITY	PHOENIX	URTK/S
LK12	LK12	-	METER CURRENT TEST LINK - WHITEØ NON POLARITY	PHOENIX	URTK/S
LK13	LK13	-	METER CURRENT TEST LINK - BLUEØ POLARITY	PHOENIX	URTK/S
LK14	LK14	-	METER CURRENT TEST LINK - BLUEØ NON POLARITY	PHOENIX	URTK/S
FS15	FS15	2A	AUXILIARY SUPPLY 110V POTENTIAL FUSE	ALSTOM	SAFECLIP SC20H BLACK
FS16	FS16	2A	AUXILIARY SUPPLY 110V POTENTIAL FUSE	ALSTOM	SAFECLIP SC20H BLACK
FS17	FS17	2A	COMMUNICATIONS 110V POTENTIAL FUSE	ALSTOM	SAFECLIP SC20H BLACK
FS18	FS18	2A	COMMUNICATIONS 110V POTENTIAL FUSE	ALSTOM	SAFECLIP SC20H BLACK
FS19		2A	240V AC SUPPLY POTENTIAL FUSE	ALSTOM	SAFECLIP SC20H BLACK
X1	X1	-	REAR OF PANEL INCOMING CT AND VT TERMINATIONS	UTILUX	H3820
X2	X2	-	REAR OF PANEL INCOMING 110V SUPPLY TERMINATIONS	UTILUX	H3820
X3		-	REAR OF PANEL INCOMING 240V SUPPLY TERMINATIONS	UTILUX	H3820

AC FUSE/TEST LINK/TERMINATIONS FUNCTION TABLE

CAD DRAWING
DO NOT MANUALLY AMEND

AMENDMENTS

1. ADDED NOTE 11 REGARDING VT PRIMARY PROTECTION — M.HARRISON 25/06/2015
CHECKED M.HARRISON
APPROVED M.HARRISON

HIGH VOLTAGE METERING PANEL LAYOUT, LABELLING & EQUIPMENT DETAILS INSTALLATION WITH CHECK METERING	221334 sh.2

ASSOCIATED DRAWINGS

Ausgrid
BSP METERING
824 OLD ILLAWARRA RD,
MENAI 2234
PHONE: (02) 85696710

SCALE	AS SHOWN
DESIGNED	R.LOWE
DRAWN	M.HARRISON
CHECKED	R.LOWE
APPROVED	R.LOWE
DATE	11/11/2013
PRJTRK No.	-
PROJECT NUMBER	-

HIGH VOLTAGE METERING SCHEMATIC DIAGRAM & WIRING DIAGRAM INSTALLATION WITH CHECK METERING & AUXILIARY SUPPLY

DRAWING No 221334 | SHEET 1 | AMD 01 | SIZE A1