



- NOTES:
- 1: Isolate AC1 output to input to house loads
  - 2: Transfer switch in auto mode will transfer power to the Dist SWB when grid fails. and transfer back to the grid when grid is restored.
  - 3: Neutral can't be broken from MEN link to house loads NZ3000 Wiring Rules.
  - 4: With the Victron input wired to grid side in can still export power if required with a grid protect relay to comply with AS/NZS 4777.2.2020 to be added later on.
  - 5: Setup Grid-tie inverter to MG mode.
  - 6: AC1 is backup supply
  - 7: AC2 non essential supply
  - 8: Send command to turn off the grid tie inverters if genset running.
  - 9: Supply power to Huawei CT neutral feed?
  - 10: Neutral to Huawei only to AC1 output
  - 11: Link all neutrals in AC output
  - 12: Fronius genset shut down remote control

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PROJECT  
GENERAL SOLAR ATS  
CLIENT  
RD ELECTRONICS & ELECTRICAL

DRAWING TITLE  
VICTRON MULTIPUS  
ATS SWITCHED SYSTEM  
GRID APPLICATIONS

DESIGN:	Rob Duthie		
DRAWN:	RD		
CHECKED:			
APPROVED:			
DRG DATE:	11/04/2022		
DRG No:			
REVISION:	Rev1.0		
PROJECT NUMBER:			
SHT No:	0	SCALE:	NTS
SHEET:	A4	UNITS:	MM

REV	DESCRIPTION	DATE

**Solar System  
ATS Switched Design  
RD Electronics & Electrical**