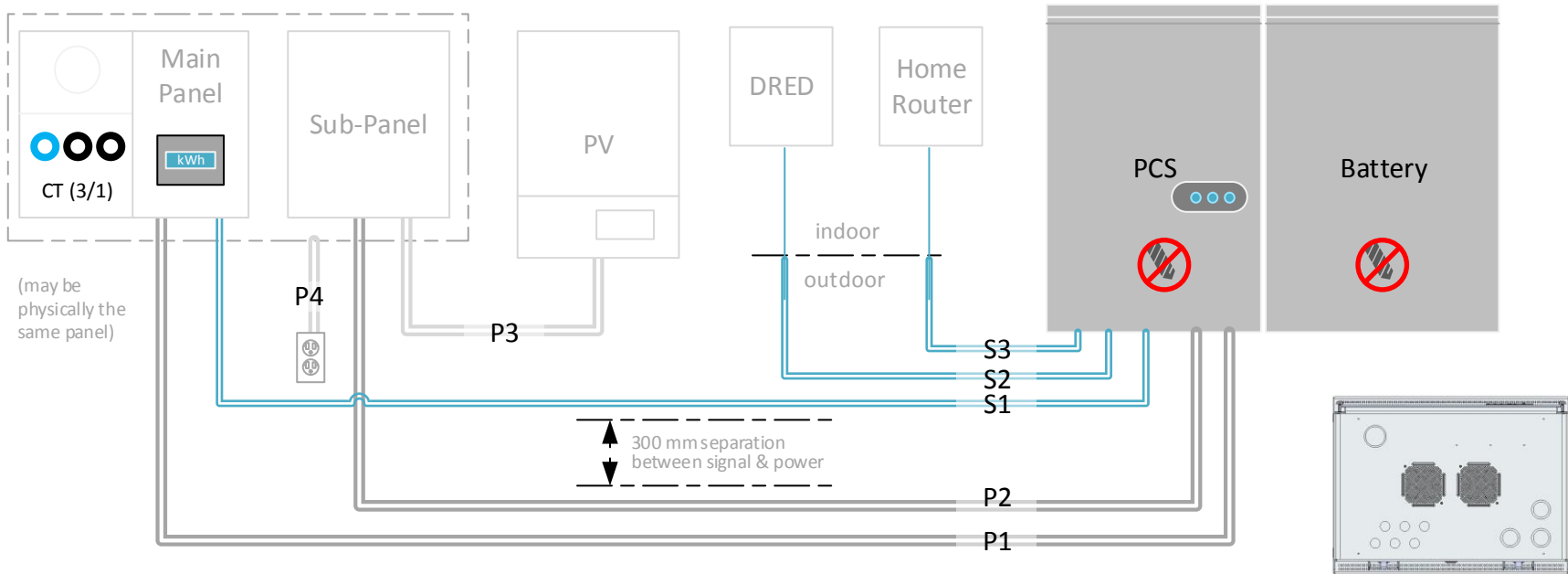


		Eguana Evolve AS/NSZ Residential Energy Storage System			
		System Installation Clearances			
Feb.9.2018	SIZE	FSCM NO	DWG NO	REV	
Randy McNernie	SCALE	none	68-008	1	
		SHEET		1 OF 4	



Conduit Ref	Rating	Conductor	Circuit protection
P1	Power	16 mm ²	63 Amp
P2	Power	10 - 16 mm ²	Sub-Panel 63 Amp max Note 1
P3	Power	see Note 2	PV inverter rating (32 Amp max)
P4	Power	see Note 3	(2x) 16 Amp max

Conduit Ref	Rating	Conductor	Definition – See Note 4
S1	Signal	1 ea CAT-5 STP	Energy meter RS-485
S2	Signal	1 ea CAT-5 UTP	Ethernet (DRED device)
S3	Signal	1 ea CAT-5 UTP	Ethernet (home internet)

Note 1: Load circuit terminals are rated 63 Amp. With PV and load limit of the battery system, 32 Amp rating is permissible.

Note 2: PV inverter must be rated 5kW or less, 1Ø only on backup circuit.

Note 3: Circuits must be limited to 32 Amp maximum load rating. Represented as home load, 1Ø cct. Two 16 Amp ccts, or three 10A ccts maximum recommended.

Note 4: All signal wires can be combined into one conduit, and distributed as required, if applicable. Individual conduits are shown for clarity of individual signals only. Long parallel signal runs to power runs should be separated by a minimum of 300 mm to minimize signal interference.

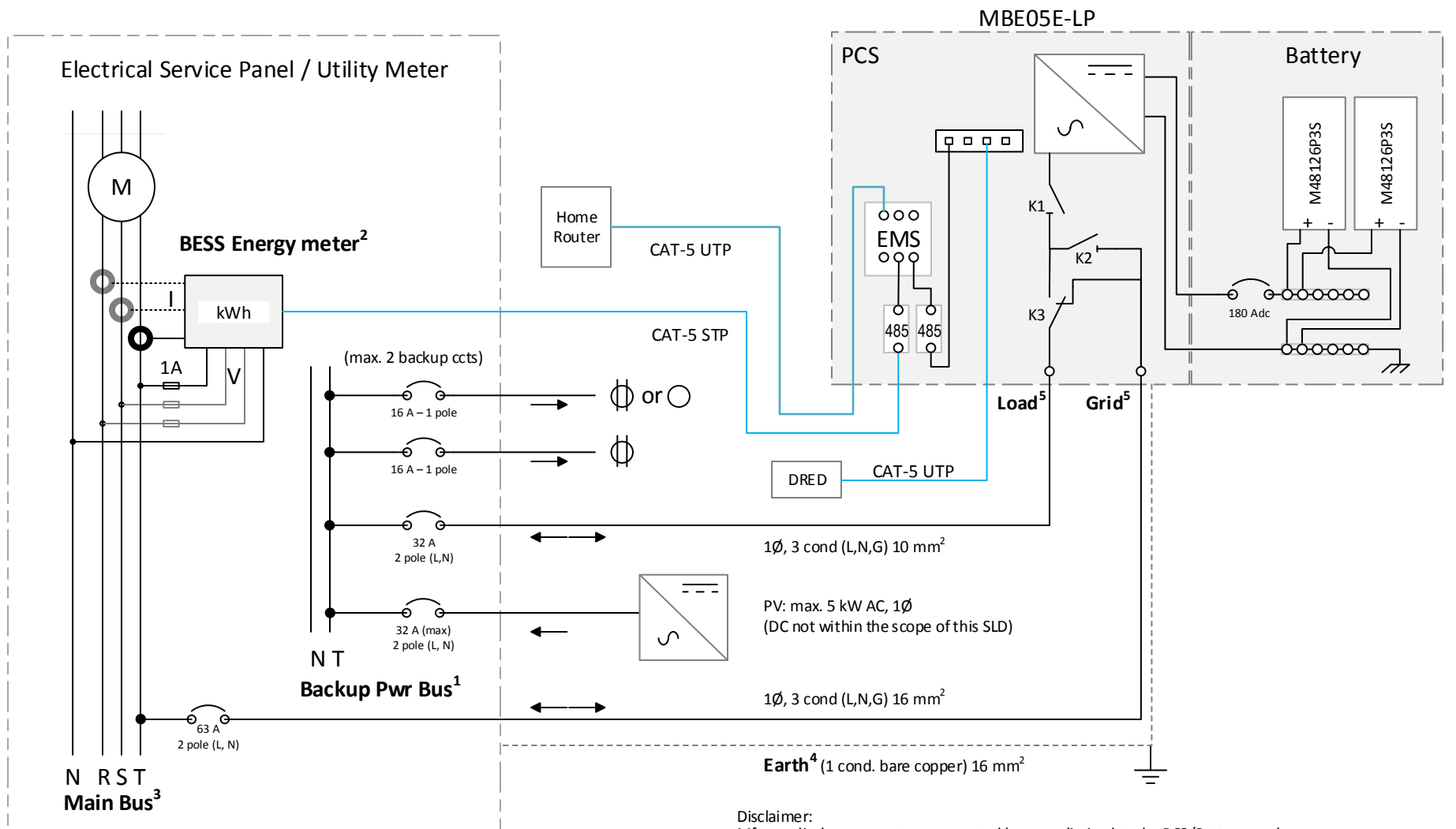


WARNING! Drilling holes anywhere in the battery system renders warranty null and void. Use knockouts provided with reducers where applicable.

Disclaimer:

Mfr supplied components represented here are limited to the PCS/Battery, and energy meter with CTs for 1 ph or 3ph service. All other materials and components represented are customer supplied. AS/NZS electrical code compliance is the responsibility of the designer and/or electrical contractor.

Eguana Evolve AS/NSZ Residential Energy Storage System			
Conduit, Conductor & Circuit Protection Plan Solar + Storage with Solar Integrated Backup			
SIZE	FSCM NO	DWG NO	REV
		68-008	1
Randy McNernie	SCALE	1:1	SHEET 2 OF 4

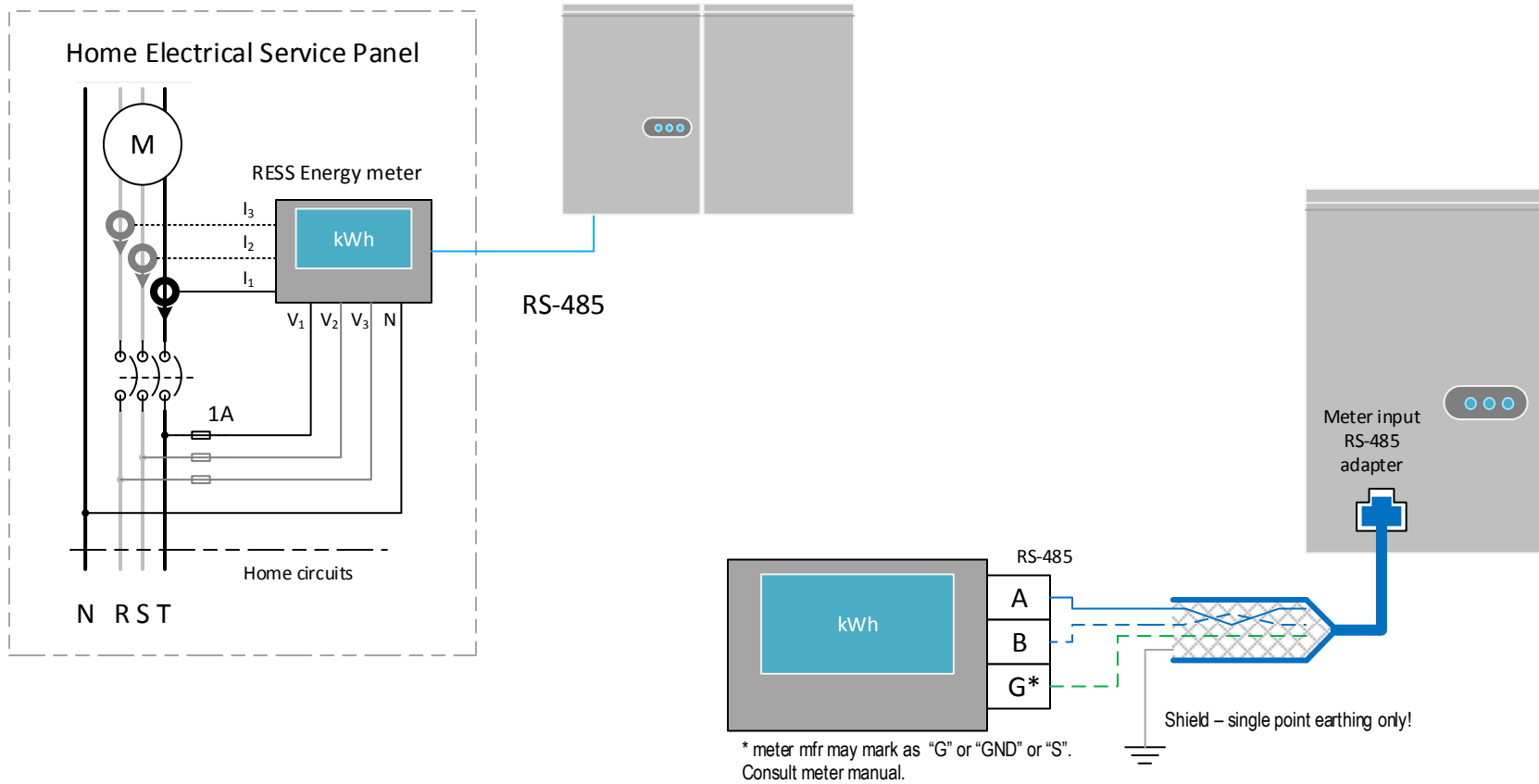


Disclaimer:
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NOTES

- 1- The backup power bus must be electrically isolated from the main electrical bus. Do not tap the neutral wires of the main and backup buses. A separate line, neutral, and ground must be run to each of the load and grid ports of the battery system. Refer to the installation manual for wiring details.
- 2 - Energy meter supports 1Ø and 3Ø configuration.
- 3 - 3Ø service shown. For 1Ø service, do not populate R,S ph components.
- 4 - The battery system must be earth bonded to the building ground to meet lightning protection requirements.
- 5 - The battery system load and grid ports are independently controlled circuits. Should the electrical code require additional "line-of-sight" disconnects, a separate disconnect must be used for each of the grid and load ports. The disconnects and/or circuit breakers must operate independently of each other, and not be ganged.

Eguana Evolve AS/NSZ Residential Energy Storage System				
Electrical Single Line Diagram (SLD) Solar + Storage with Solar Integrated Backup				
Feb.9.2018	SIZE	FSCM NO	DWG NO 68-008	REV 1
Randy McNernie	SCALE	none	SHEET	3 OF 4



Energy meter supports 1 ϕ and 3 ϕ configuration.
3 ϕ service shown. For 1 ϕ service, do not populate R,S ph components.

Disclaimer:
Mfr supplied components represented here are limited to the PCS/Battery, and energy meter with CTs for 1 ϕ or 3 ϕ service. All other materials and components represented are customer supplied. AS/NZS electrical code compliance is the responsibility of the designer and/or electrical contractor.

Eguana Evolve AS/NSZ Residential Energy Storage System				
Electrical Single Line Diagram (SLD) Energy Meter Installation				
Feb.9.2018	SIZE	FSCM NO	DWG NO 68-008	REV 1
Randy McNernie	SCALE	none	SHEET	4 OF 4