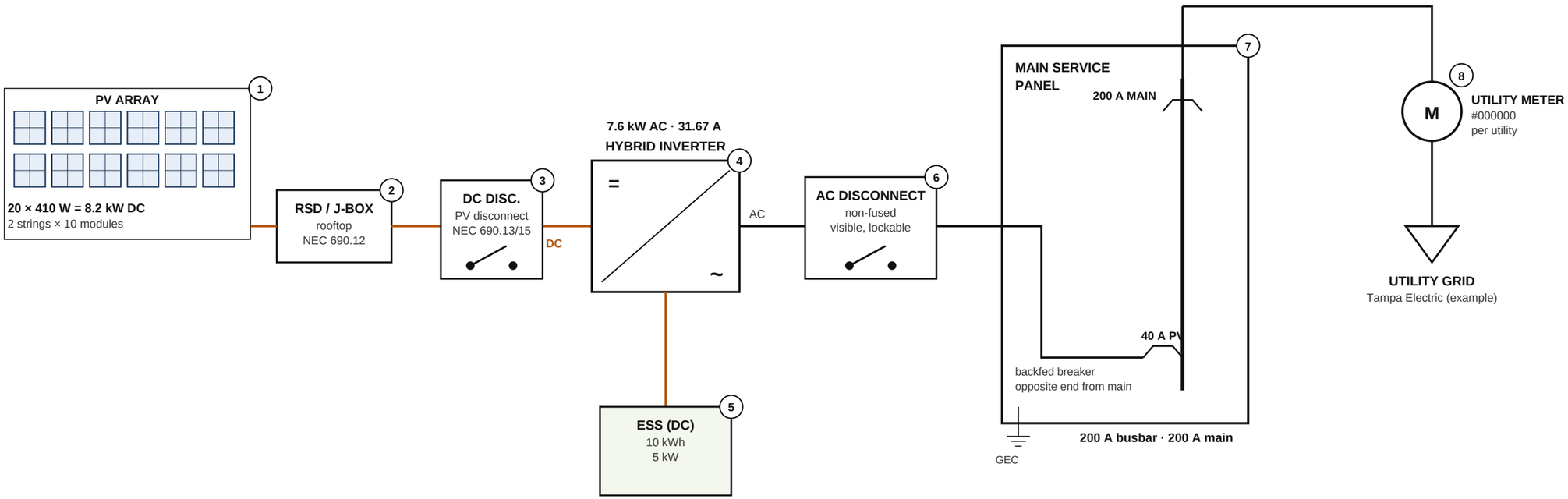
SINGLE-LINE DIAGRAM – SOLAR PV + ENERGY STORAGE

1-phase, 3-wire 120/240 V service · interconnection: load-side (backfed breaker)



EQUIPMENT

1. PV modules: 20 × Example Solar EX-410 (sample) (410 W STC)
2. Rapid shutdown device / rooftop junction box (NEC 690.12)
3. PV DC disconnect (integrated in inverter where listed)
4. Hybrid inverter: Example Power HX-7600 (sample) (7.6 kW AC, UL 1741 SA/SB)
5. Energy storage: 1 × Example Power BX-10 (sample) (10 kWh, 5 kW, UL 9540)
6. AC disconnect, non-fused, visible blade, lockable (NEC 705.20; utility requirement where noted)
7. Main service panel: 200 A busbar, 200 A main breaker
8. Utility revenue meter #000000 (bi-directional meter per utility)

NOTES

1. NEC 705.12(B)(3)(2) 120 % rule: 200 A main + 40 A backfed = 240 A is within 240 A (120 % of 200 A busbar) – OK.
2. Storage operating mode: self-consumption, no export from battery.
3. PV system: placards and labels per NEC 690 and 705 (rapid shutdown, disconnect, dual power source) as required by the AHJ.
4. Values from contractor data and manufacturer documents; NEC references for orientation only – the code edition adopted by the AHJ governs.

CONTRACTOR

Sample Solar LLC (fictional)

1 Example Way, Tampa, FL 33602

License: SAMPLE-000000

PROJECT / SERVICE ADDRESS

Jordan Sample

100 Sample Lane, Tampa, FL 33602

UTILITY

Tampa Electric (example)

Account: 0000000000

Meter: 000000

SYSTEM

8.20 kW DC / 7.6 kW AC

10 kWh storage, self-consumption

Load-side connection, 200 A busbar

PURPOSE

Utility interconnection application. Not a building permit plan set. Not stamped by a professional engineer. Schematic; verify against installed equipment labels.

PROJECT	DATE
GP-SAMPLE-0001	2026-11-13

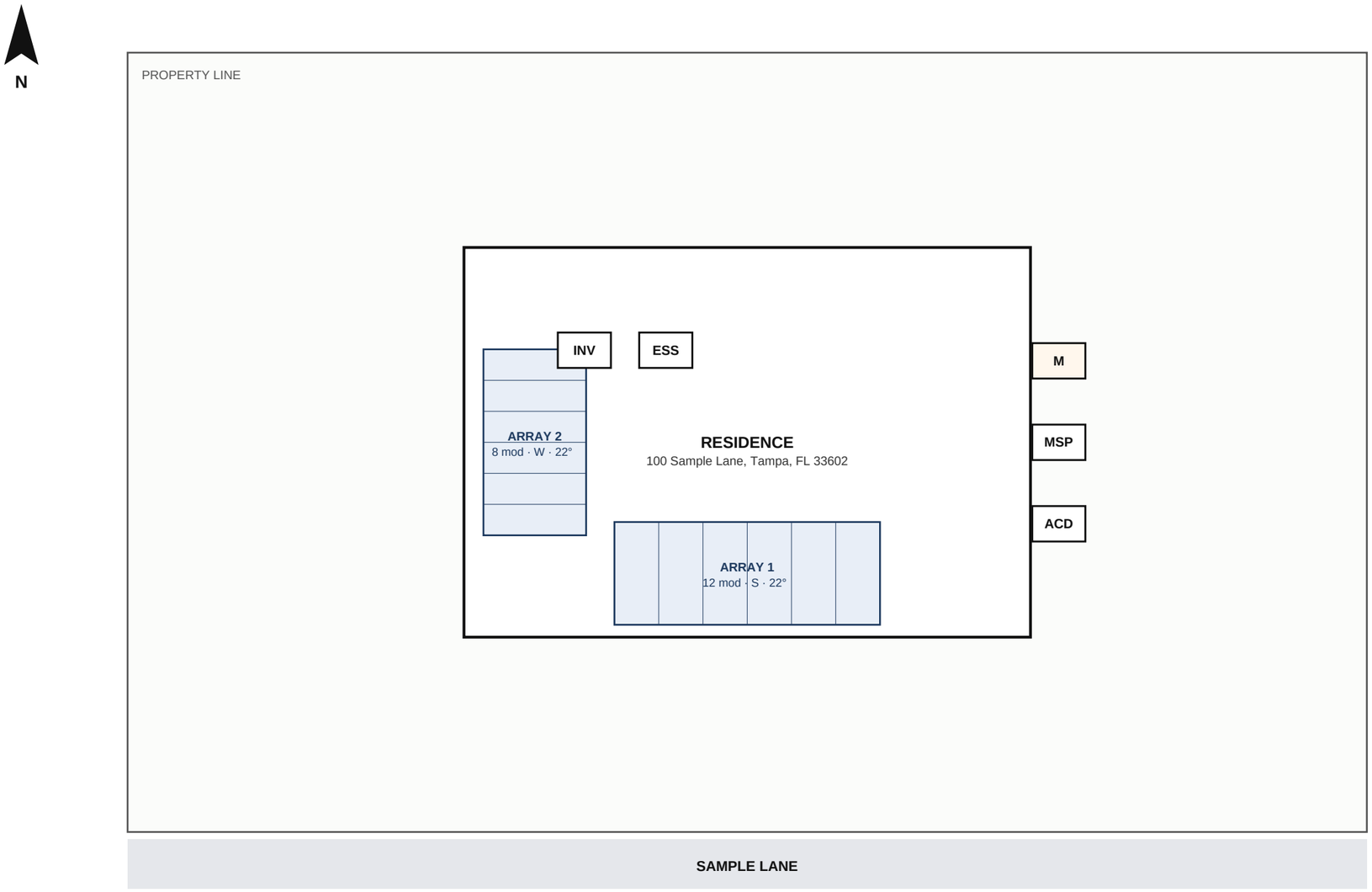
Prepared by Gridpol for the contractor

SHEET TITLE

SINGLE-LINE DIAGRAM **E-1**

SITE PLAN – SCHEMATIC, NOT TO SCALE

Locations as reported by the contractor. Dimensions and setbacks are not shown; the installer verifies equipment locations on site.



LEGEND

M – Utility meter: right wall (seen from street)
MSP – Main service panel: right wall (seen from street)
INV – Inverter: inside garage
ACD – AC disconnect: right wall (seen from street)
ESS – Energy storage: inside garage
AC disconnect is within 10 ft of the utility meter (as reported).

CONTRACTOR

Sample Solar LLC (fictional)
1 Example Way, Tampa, FL 33602
License: SAMPLE-000000

PROJECT / SERVICE ADDRESS

Jordan Sample
100 Sample Lane, Tampa, FL 33602

UTILITY

Tampa Electric (example)
Account: 0000000000
Meter: 000000

SYSTEM

8.20 kW DC / 7.6 kW AC
10 kWh storage, self-consumption
Load-side connection, 200 A busbar

PURPOSE

Utility interconnection application. Not a building permit plan set. Not stamped by a professional engineer. Schematic; verify against installed equipment labels.

PROJECT

GP-SAMPLE-0001

DATE

2026-11-13

Prepared by Gridpol for the contractor

SHEET TITLE

SITE PLAN

E-2