

EXTERIOR EQUIPMENT

INTERIOR EQUIPMENT

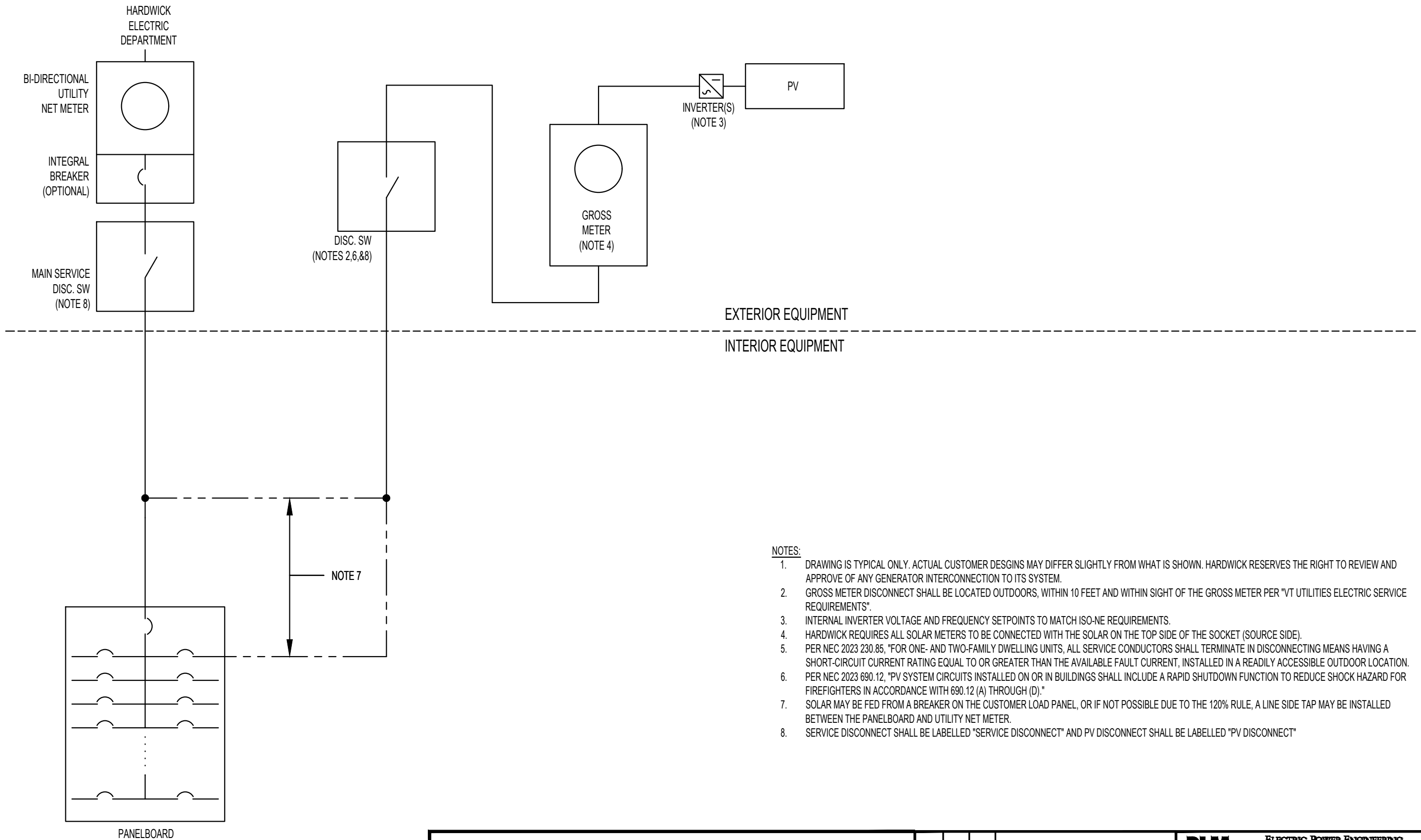
- NOTES:
- 1. DRAWING IS TYPICAL ONLY. ACTUAL CUSTOMER DESGINS MAY DIFFER SLIGHTLY FROM WHAT IS SHOWN. HARDWICK RESERVES THE RIGHT TO REVIEW AND APPROVE OF ANY GENERATOR INTERCONNECTION TO ITS SYSTEM.
 - 2. DISCONNECT SWITCH SHALL BE LOCATED OUTDOORS, WITHIN 10 FEET AND WITHIN SIGHT OF THE METER PER "VT UTILITIES ELECTRIC SERVICE REQUIREMENTS".
 - 3. INTERNAL INVERTER VOLTAGE AND FREQUENCY SETPOINTS TO MATCH ISO-NE REQUIREMENTS.
 - 4. PER NEC 2023 230.85, "FOR ONE- AND TWO-FAMILY DWELLING UNITS, ALL SERVICE CONDUCTORS SHALL TERMINATE IN DISCONNECTING MEANS HAVING A SHORT-CIRCUIT CURRENT RATING EQUAL TO OR GREATER THAN THE AVAILABLE FAULT CURRENT, INSTALLED IN A READILY ACCESSIBLE OUTDOOR LOCATION.
 - 5. PER NEC 2023 690.12, "PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARD FOR FIREFIGHTERS IN ACCORDANCE WITH 690.12 (A) THROUGH (D)."

REFERENCE DRAWINGS / 1-LINE DIAGRAMS:

- | | | |
|----|------------|--------------------------|
| 1. | 94190-E1-0 | STANDALONE PV |
| 2. | 94190-E2-0 | BEHIND THE METER PV |
| 3. | 94190-E3-0 | BEHIND THE METER BATTERY |
| 4. | 94190-E4-0 | AC-COUPLED PV+BATTERY |
| 5. | 94190-E5-0 | DC-COUPLED PV+BATTERY |



DATE	BY	NO.	REVISIONS	ELECTRIC POWER ENGINEERING	
				4612001810, 5151302	(508) 435-0000 MARLBOROUGH, MA 01501
				DRAWN PLM	HARDWICK ELECTRIC DEPARTMENT HARDWICK, VERMONT INTERCONNECTION STANDARDS STANDARD STANDALONE PV 1-LINE DIAGRAM
				CHKD MCD	
				APPD	
				DATE 1/22/2026	
				SCALE NONE	NO. 94190-E1-0

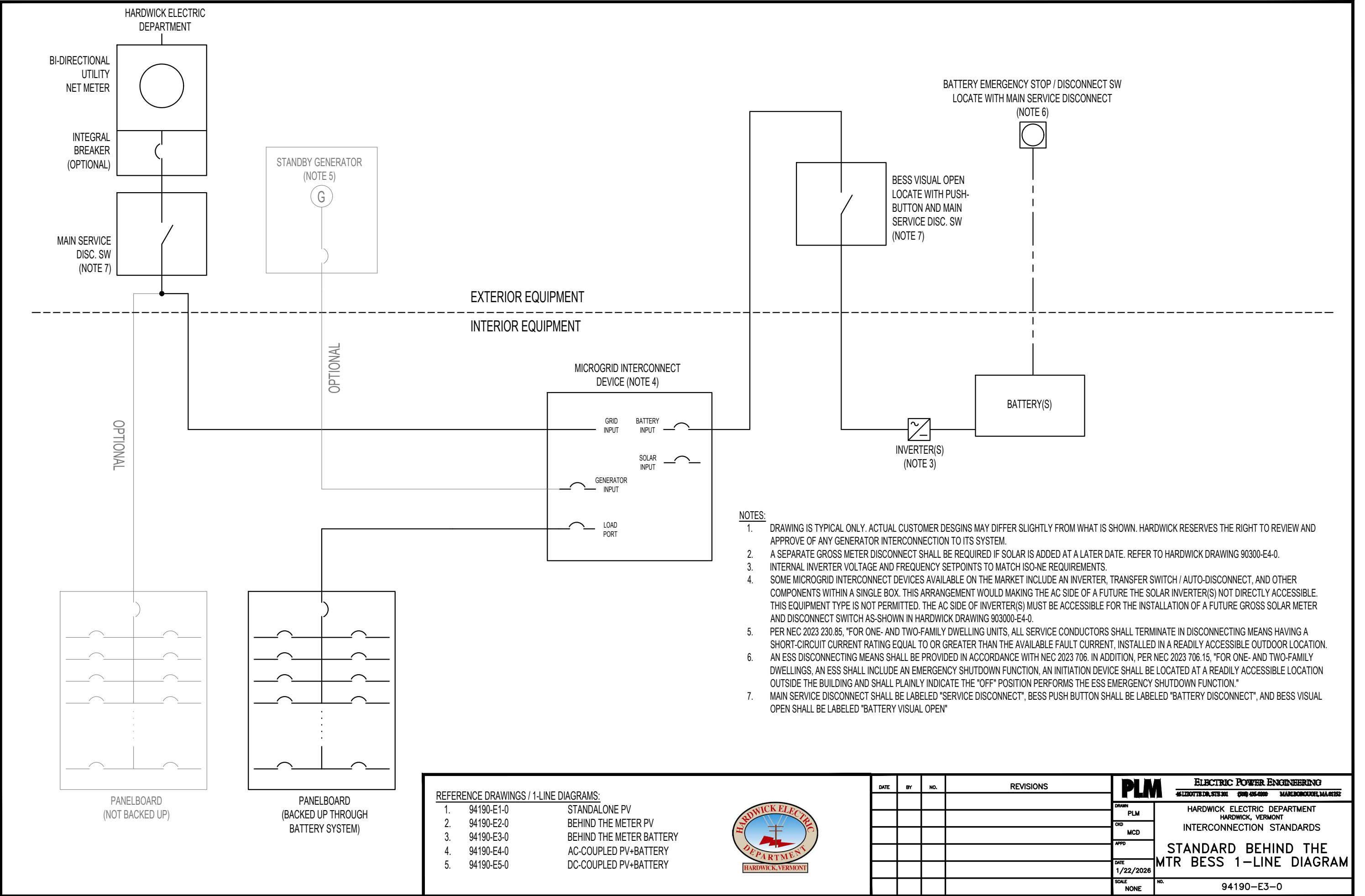


- NOTES:
- DRAWING IS TYPICAL ONLY. ACTUAL CUSTOMER DESGINS MAY DIFFER SLIGHTLY FROM WHAT IS SHOWN. HARDWICK RESERVES THE RIGHT TO REVIEW AND APPROVE OF ANY GENERATOR INTERCONNECTION TO ITS SYSTEM.
 - GROSS METER DISCONNECT SHALL BE LOCATED OUTDOORS, WITHIN 10 FEET AND WITHIN SIGHT OF THE GROSS METER PER "VT UTILITIES ELECTRIC SERVICE REQUIREMENTS".
 - INTERNAL INVERTER VOLTAGE AND FREQUENCY SETPOINTS TO MATCH ISO-NE REQUIREMENTS.
 - HARDWICK REQUIRES ALL SOLAR METERS TO BE CONNECTED WITH THE SOLAR ON THE TOP SIDE OF THE SOCKET (SOURCE SIDE).
 - PER NEC 2023 230.85, "FOR ONE- AND TWO-FAMILY DWELLING UNITS, ALL SERVICE CONDUCTORS SHALL TERMINATE IN DISCONNECTING MEANS HAVING A SHORT-CIRCUIT CURRENT RATING EQUAL TO OR GREATER THAN THE AVAILABLE FAULT CURRENT, INSTALLED IN A READILY ACCESSIBLE OUTDOOR LOCATION.
 - PER NEC 2023 690.12, "PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARD FOR FIREFIGHTERS IN ACCORDANCE WITH 690.12 (A) THROUGH (D)."
 - SOLAR MAY BE FED FROM A BREAKER ON THE CUSTOMER LOAD PANEL, OR IF NOT POSSIBLE DUE TO THE 120% RULE, A LINE SIDE TAP MAY BE INSTALLED BETWEEN THE PANELBOARD AND UTILITY NET METER.
 - SERVICE DISCONNECT SHALL BE LABELLED "SERVICE DISCONNECT" AND PV DISCONNECT SHALL BE LABELLED "PV DISCONNECT"

- REFERENCE DRAWINGS / 1-LINE DIAGRAMS:
- | | | |
|----|------------|--------------------------|
| 1. | 94190-E1-0 | STANDALONE PV |
| 2. | 94190-E2-0 | BEHIND THE METER PV |
| 3. | 94190-E3-0 | BEHIND THE METER BATTERY |
| 4. | 94190-E4-0 | AC-COUPLED PV+BATTERY |
| 5. | 94190-E5-0 | DC-COUPLED PV+BATTERY |



DATE	BY	NO.	REVISIONS	ELECTRIC POWER ENGINEERING	
				PLM	46112001810, 5151301 (500) 435-0000 MARLBOROUGH, MA 01501
				CKD	HARDWICK ELECTRIC DEPARTMENT HARDWICK, VERMONT INTERCONNECTION STANDARDS STANDARD BEHIND THE METER PV 1-LINE DIAGRAM
				MCD	
				APPD	
				DATE	1/22/2026
				SCALE	
				NONE	NO. 94190-E2-0

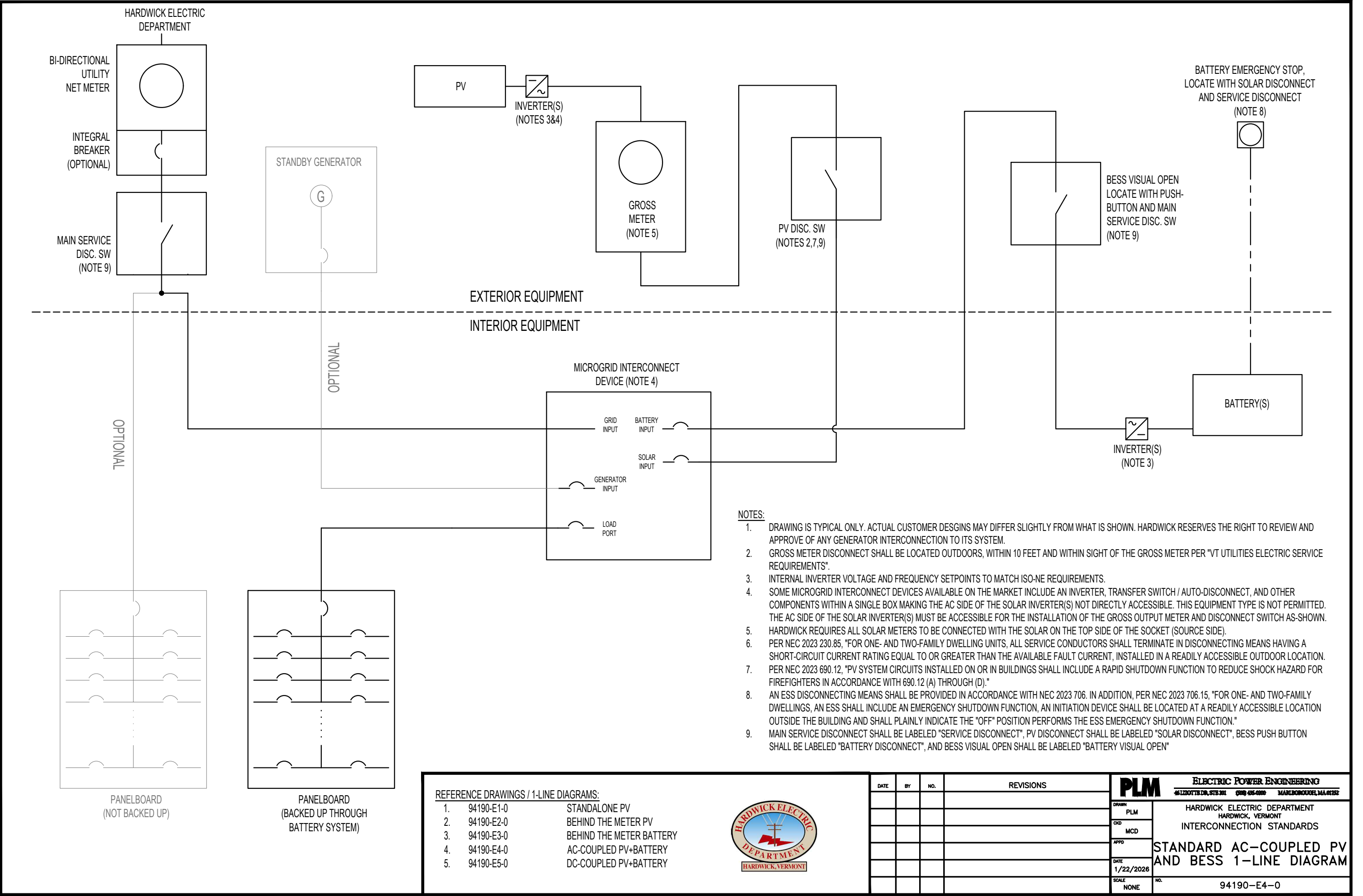


REFERENCE DRAWINGS / 1-LINE DIAGRAMS:

- | | | |
|----|------------|--------------------------|
| 1. | 94190-E1-0 | STANDALONE PV |
| 2. | 94190-E2-0 | BEHIND THE METER PV |
| 3. | 94190-E3-0 | BEHIND THE METER BATTERY |
| 4. | 94190-E4-0 | AC-COUPLED PV+BATTERY |
| 5. | 94190-E5-0 | DC-COUPLED PV+BATTERY |



DATE	BY	NO.	REVISIONS	ELECTRIC POWER ENGINEERING	
				46112001810.515302 (508) 435-0000 MARLBOROUGH, MA 01503	
				DRAWN	HARDWICK ELECTRIC DEPARTMENT HARDWICK, VERMONT INTERCONNECTION STANDARDS
				PLM	
				CKD	
				MCD	STANDARD BEHIND THE MTR BESS 1-LINE DIAGRAM
				APPD	
				DATE	
				1/22/2026	NO. 94190-E3-0
				SCALE	
				NONE	



REFERENCE DRAWINGS / 1-LINE DIAGRAMS:

- | | | |
|----|------------|--------------------------|
| 1. | 94190-E1-0 | STANDALONE PV |
| 2. | 94190-E2-0 | BEHIND THE METER PV |
| 3. | 94190-E3-0 | BEHIND THE METER BATTERY |
| 4. | 94190-E4-0 | AC-COUPLED PV+BATTERY |
| 5. | 94190-E5-0 | DC-COUPLED PV+BATTERY |



DATE	BY	NO.	REVISIONS	ELECTRIC POWER ENGINEERING	
				PLM	461120018100-5151001 (900) 435-0000 MARLBOROUGH, MASS 01501
				CKD	HARDWICK ELECTRIC DEPARTMENT
				APPD	HARDWICK, VERMONT
				DATE	INTERCONNECTION STANDARDS
				1/22/2026	STANDARD AC-COUPLED PV
				SCALE	AND BESS 1-LINE DIAGRAM
				NONE	NO. 94190-E4-0

