

ELECTRICAL NOTES

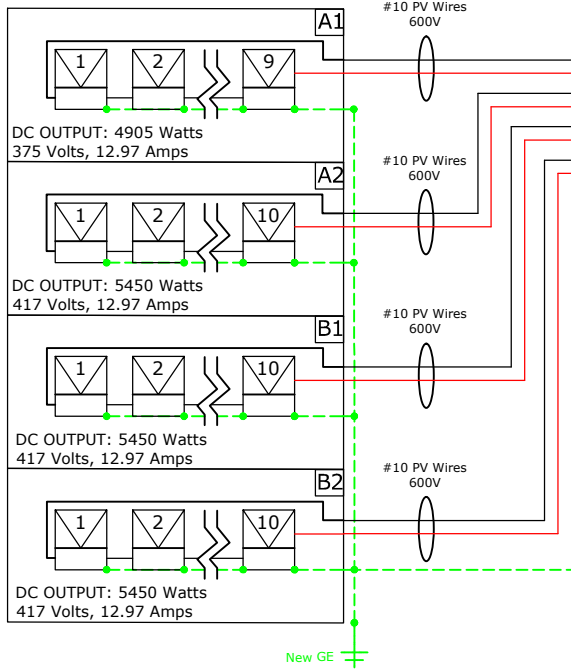
ELECTRICAL SCOPE OF WORK

1. ALL CONDUCTORS SIZED ACCORDING TO NEC-2017 TABLE 310.15(B)16/310.15(B)17 COPPER/AL. CONDUCTOR, NEC-2017 310.15(B)(2)(A), 310.15(B)(3)(a), 310.15(B)(3)(c) AND ARTICLE 690.
2. ALL CONDUITS SIZED ACCORDING TO NEC-2017 TABLE 310.15(B)16/310.15(B)17 COPPER/AL. CONDUCTOR, NEC-2017 310.15(B)(2)(A), 310.15(B)(3)(a), 310.15(B)(3)(c) AND CHAPTER 9, TABLE 4 & TABLE 5.
3. INSTALLER SHALL PROVIDE PERMANENT LABELS FOR THE PHOTOVOLTAIC SYSTEM IN ACCORDING TO NEC 2017, ARTICLE 690 AND 705.10. SEE ELECTRICAL LABEL DRAWING.
4. ALL CONDUITS AND WIRE SIZES SHOWN ARE MINIMUM REQUIRED SIZES. SITE CONDITIONS AND PROCUREMENT MAY DICTATE LARGER SIZES BEING USED, WITH ENGINEERING APPROVAL.
5. ALL EXPOSED PV WIRE MUST BE SECURELY FASTENED. ALL CONDUIT MUST BE SECURELY FASTENED AND SUPPORTED ACCORDING TO NEC-2017 ARTICLE 300.
6. ALL CONDUCTORS TO BE STRANDED THWN-2 CU UNLESS OTHERWISE NOTED. UNGROUNDED CONDUCTOR INSULATION COLORS: BLACK, RED, BLUE, BROWN, ORANGE, YELLOW
7. GROUNDED CONDUCTOR INSULATION COLORS: WHITE, GREY, BLACK+WHITE STRIPE.
8. EQUIPMENT GROUNDING CONDUCTORS (EGC) / GROUNDING ELECTRODE CONDUCTORS (GEC) COLORS: GREEN, BARE
9. GEC TO BE IRREVERSIBLY SPLICED OR EXOTHERMICALLY WELDED.

Utilize existing/spare 1" PVC buried between Garage and Utility/PV Equipment stanchion to pull PV AC wires. Franklin aGate to go on exterior House wall, above existing L-Bodies with service wires. Rewire MLC (A) as Backed Up Loads Panel. MLC (B) to remain as Isolated Loads Panel. External CT needed for monitoring Isolated Loads panel consumption (in exterior L-Body).

Customer Signature:

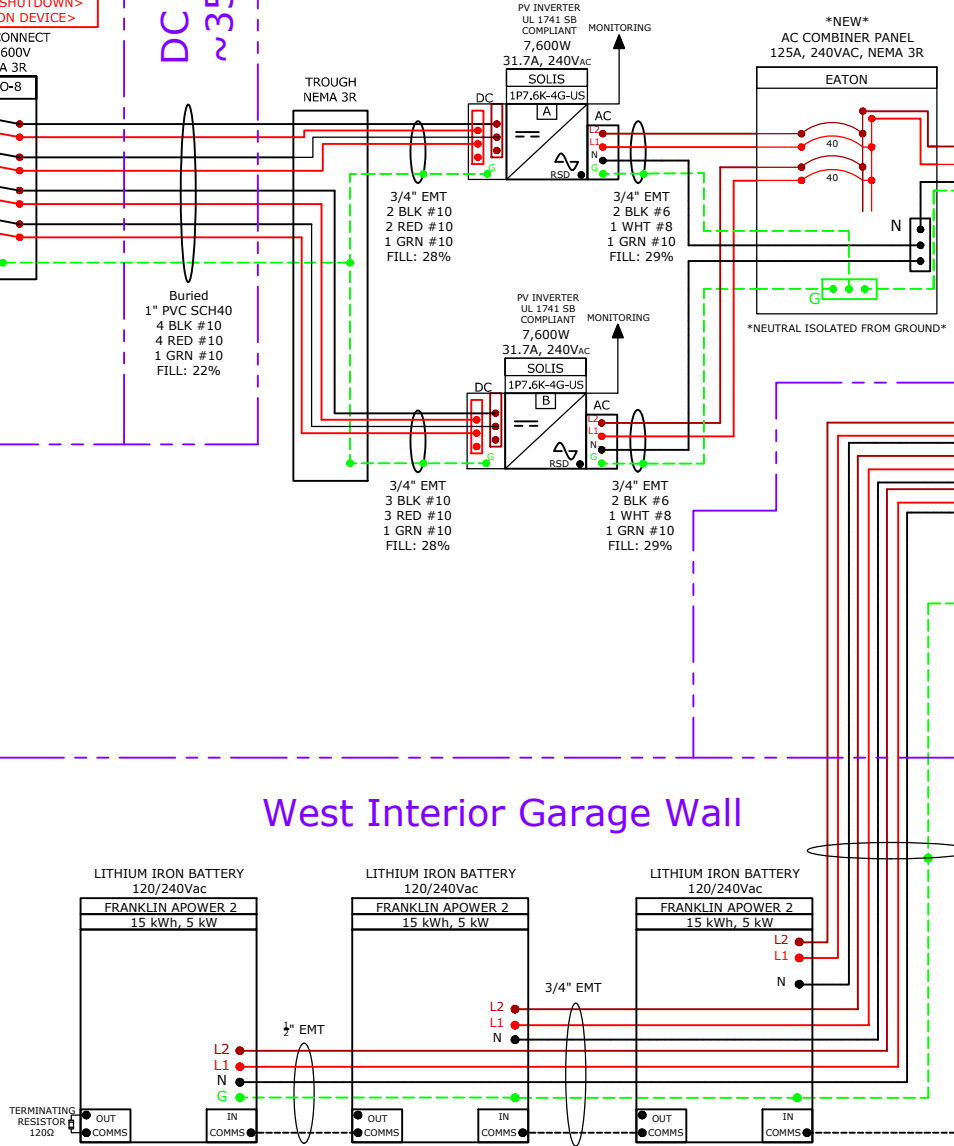
PV Array on Canopy



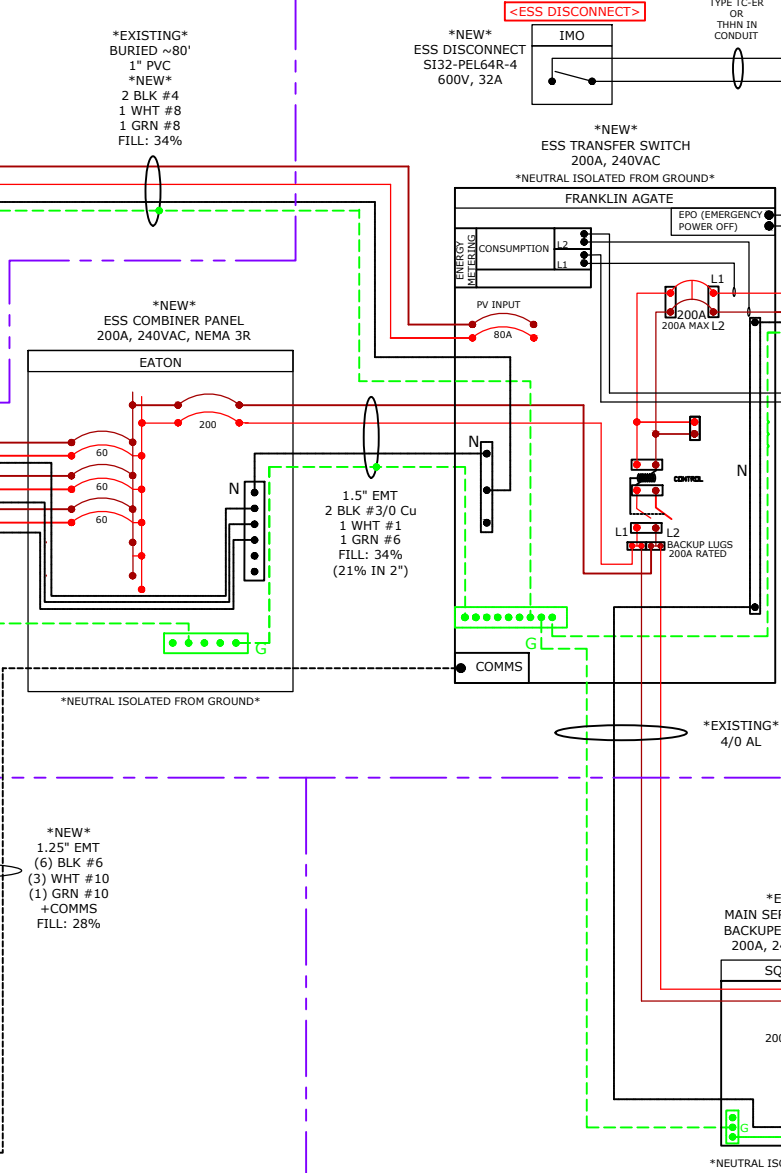
<PV RAPID SHUTDOWN>
<INITIATION DEVICE>

DC Trench
~35'

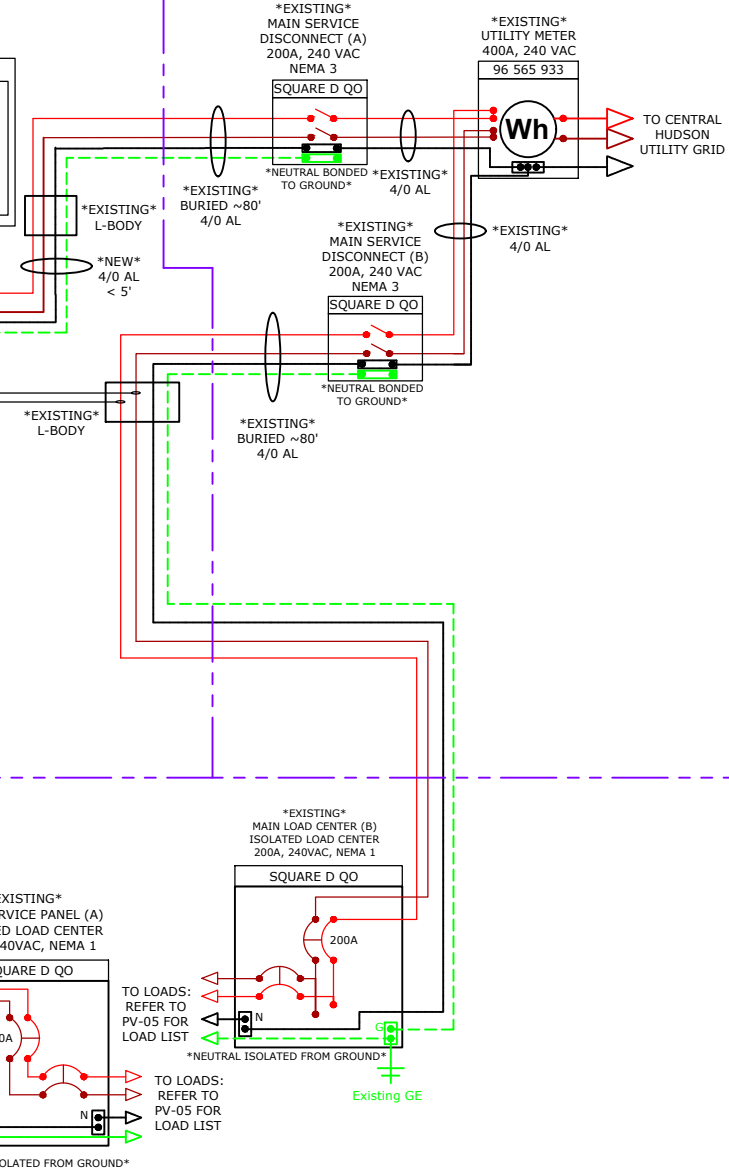
Utility/PV Equipment Stanchion



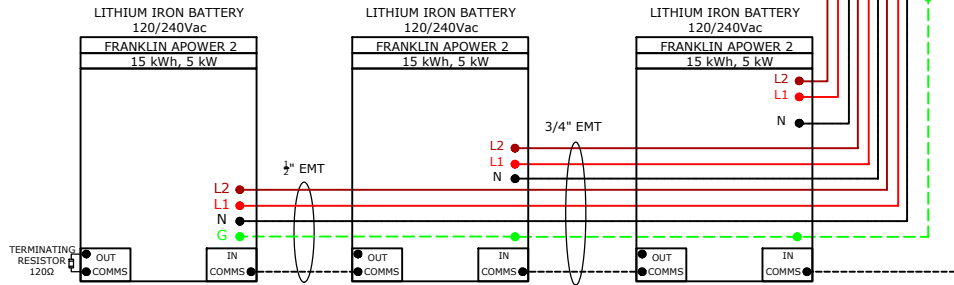
West Exterior House Wall



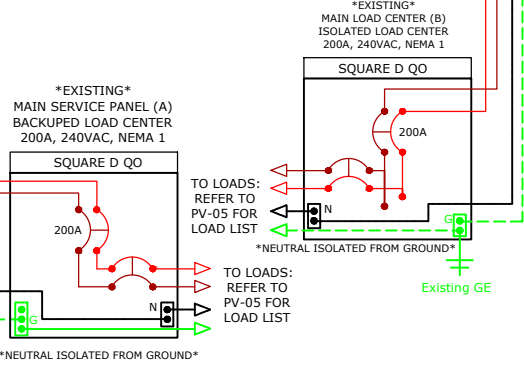
Utility/PV Equipment Stanchion



West Interior Garage Wall



East Interior Garage Wall



It is a violation of New York State Education Law Article 145 for any person, unless acting under the direct supervision of a licensed professional engineer, to alter this drawing in any way.

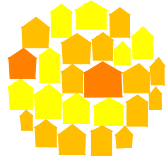
ELECTRICAL
DRAWING

REV-0

PSC

PV-04

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ZONING DETAILS

PARCEL ID:	6664-00-960582	UTILITY:	Central Hudson
ZONING CODE:	RM2	SERVICE TYPE:	Underground
REQUIRED SETBACKS:	Front: 100', Side: 100', Rear: 100'	SERVICE SIZE:	400A
ACTUAL SETBACKS:	Front: 56', Side: 363'/252', Rear: 271'	METER #:	96 565 933

UTILITY DETAILS

PV SYSTEM DETAILS

ENERGY STORAGE SYSTEM DETAILS

DC SYSTEM SIZE (kWp):	21.25	(QTY) BATTERY MODEL:	(3) FRANKLIN APOWER2
AC SYSTEM SIZE (kW/kVA):	15.20	TOTAL AC SYSTEM POWER(kW):	30
(QTY)MODULE:	(39)LONGI LR5-72HBD 545	TOTAL USABLE ENERGY (kWh):	45
(QTY) INVERTER:	(2) SOLIS 1P7.6K-4G-US		