

SYSTEM SUMMARY			MODULES										
	BRANCH #1	BRANCH #2	REF.	QTY.	MAKE AND MODEL	PMAX	PTC	ISC	IMP	VOC	VMP	TEMP. COEFF. OF VOC	FUSE RATING
INVERTERS PER BRANCH	13	12	PM1-25	25	PANASONIC EVPV410H	410W	390.40W	10.35A	9.61A	49V	9.61V	-0.118V/°C (-0.24%/°C)	25A
MAX AC CURRENT	15.73A	14.52A											
MAX AC OUTPUT POWER	3,900W	3,600W											
ARRAY STC POWER	10,250W												
ARRAY PTC POWER	9,760W												
MAX AC CURRENT	30.25A												
MAX AC POWER	7,500W												
DERATED (CEC) AC POWER	7,500W												
			INVERTERS										
	REF.	QTY	MAKE AND MODEL	AC VOLTAGE	GROUND	OCPD RATING	RATED POWER	MAX OUTPUT CURRENT	MAX INPUT CURRENT	MAX INPUT VOLTAGE	CEC WEIGHTED EFFICIENCY		
	I1-25	25	ENPHASE IQ8PLUS-72-2-US	240A	FLOATING	20A	290W	1.21A	15A	60V	97.0%		
			DISCONNECTS					OCPDS					
	REF.	QTY.	MAKE AND MODEL	RATED CURRENT		MAX RATED VOLTAGE		REF.	QTY	RATED CURRENT	MAX VOLTAGE		
	SW1	1	SQUARE D DU222RB	60A		240V		CB1-2	2	20A	240V		
								CB3	1	15A	240V		
								CB4	1	40A	240V		
			ASHRAE EXTREME LOW		41.1°C (106°F), SOURCE: DAVIS MONTHAN AFB (-110.88°; 32.17°)								
			ASHRAE 2% HIGH		41.1°C (106°F), SOURCE: DAVIS MONTHAN AFB (-110.88°; 32.17°)								
BILL OF MATERIAL													
CATEGORY	MAKE	MODEL NUMBER	REF	QTY	UNIT	QTY/UNIT	DESCRIPTION						
PV MODULE	PANASONIC	EVPV410H	PM1-25	25	PIECE	1	PANASONIC EVPV410H 410W, MONOCRYSTALLINE SILICON						
INVERTER	ENPHASE	IQ8PLUS-72-2-US	I1-25	25	PIECE	1	ENPHASE IQ8PLUS-72-2-US 290W MICROINVERTER						
DISCONNECT	SQUARE D	DU222RB	SW1	1	PIECE	1	SQUARE D DU222RB, NON-FUSED, 2-POLE, 60A, 240VAC, NEMA 3R OR EQUIVALENT						
AC COMBINER PANEL	ENPHASE	IQ COMBINER 4	EP1	1	PIECE	1	ENPHASE IQ COMBINER 4 125A COMBINER PANEL						
PRODUCTION METER	GENERIC	GENERIC PV METER	PVM1	1	PIECE	1	GENERIC PV METER						
MONITORING	ENPHASE	ENPHASE-ENVOY	ENV1	1	PIECE	1	ENPHASE ENVOY						
WIRING	GENERIC	Q-12-10-240	WR1	106	FEET	1	ENPHASE Q-CABLE						
WIRING	GENERIC	GEN-6-AWG-BARE-CU	WR1	106	FEET	1	6 AWG BARE, COPPER (GROUND)						
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-RD	WR2	10	FEET	1	10 AWG THWN-2, COPPER, RED (LINE 1)						
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-BLK	WR2	10	FEET	1	10 AWG THWN-2, COPPER, BLACK (LINE 2)						
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-GR	WR2	10	FEET	1	10 AWG THWN-2, COPPER, GREEN (GROUND)						
WIRING	GENERIC	GEN-8-AWG-THWN-2-CU-RD	WR3-5	30	FEET	1	8 AWG THWN-2, COPPER, RED (LINE 1)						
WIRING	GENERIC	GEN-8-AWG-THWN-2-CU-BLK	WR3-5	30	FEET	1	8 AWG THWN-2, COPPER, BLACK (LINE 2)						
WIRING	GENERIC	GEN-8-AWG-THWN-2-CU-GR	WR3-5	30	FEET	1	8 AWG THWN-2, COPPER, GREEN (GROUND)						
WIRING	GENERIC	GEN-8-AWG-THWN-2-CU-WH	WR3-5	30	FEET	1	8 AWG THWN-2, COPPER, WHITE (NEUTRAL)						
WIREWAY	GENERIC	GEN-EMT-0.5"-DIA	WW2	10	FEET	1	EMT CONDUIT 0.5" DIA						
WIREWAY	GENERIC	GEN-EMT-0.75"-DIA	WW3-5	30	FEET	1	EMT CONDUIT 0.75" DIA						
OCPD	GENERIC	GEN-CB-20A-240VAC	CB1-2	2	PIECES	1	CIRCUIT BREAKER, 20A, 240VAC						
OCPD	GENERIC	GEN-CB-15A-240VAC	CB3	1	PIECE	1	CIRCUIT BREAKER, 15A, 240VAC						
OCPD	GENERIC	GEN-CB-40A-240VAC	CB4	1	PIECE	1	CIRCUIT BREAKER, 40A, 240VAC						
TRANSITION ENCLOSURE	GENERIC	GEN-AWB-TB-4-4X	JB1	1	PIECE	1	TRANSITION/PASS-THROUGH BOX, WITH 4 TERMINAL BLOCKS						



CONTRACTOR

SOLERGY, LLC

PHONE: (682)-888-8240

ADDRESS: 3204 EAST BELKNAP STREET
TARRANT COUNTY FORT WORTH, TX 76111

LIC.NO.: 33850

HIC.NO.:

ELE.NO.:

UNAUTHORIZED USE OF THIS
DRAWING SET WITHOUT WRITTEN
PERMISSION FROM CONTRACTOR IS IN
VIOLATION OF U.S. COPYRIGHT LAWS
AND WILL BE SUBJECT TO CIVIL
DAMAGES AND PROSECUTIONS.

NEW PV SYSTEM: 10250.0 KWP

EYLER
RESIDENCE

14661 EAST CIRCLE H
RANCH PLACE CORONA DE
TUCSON,
AZ 85641

APN: 205754170

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

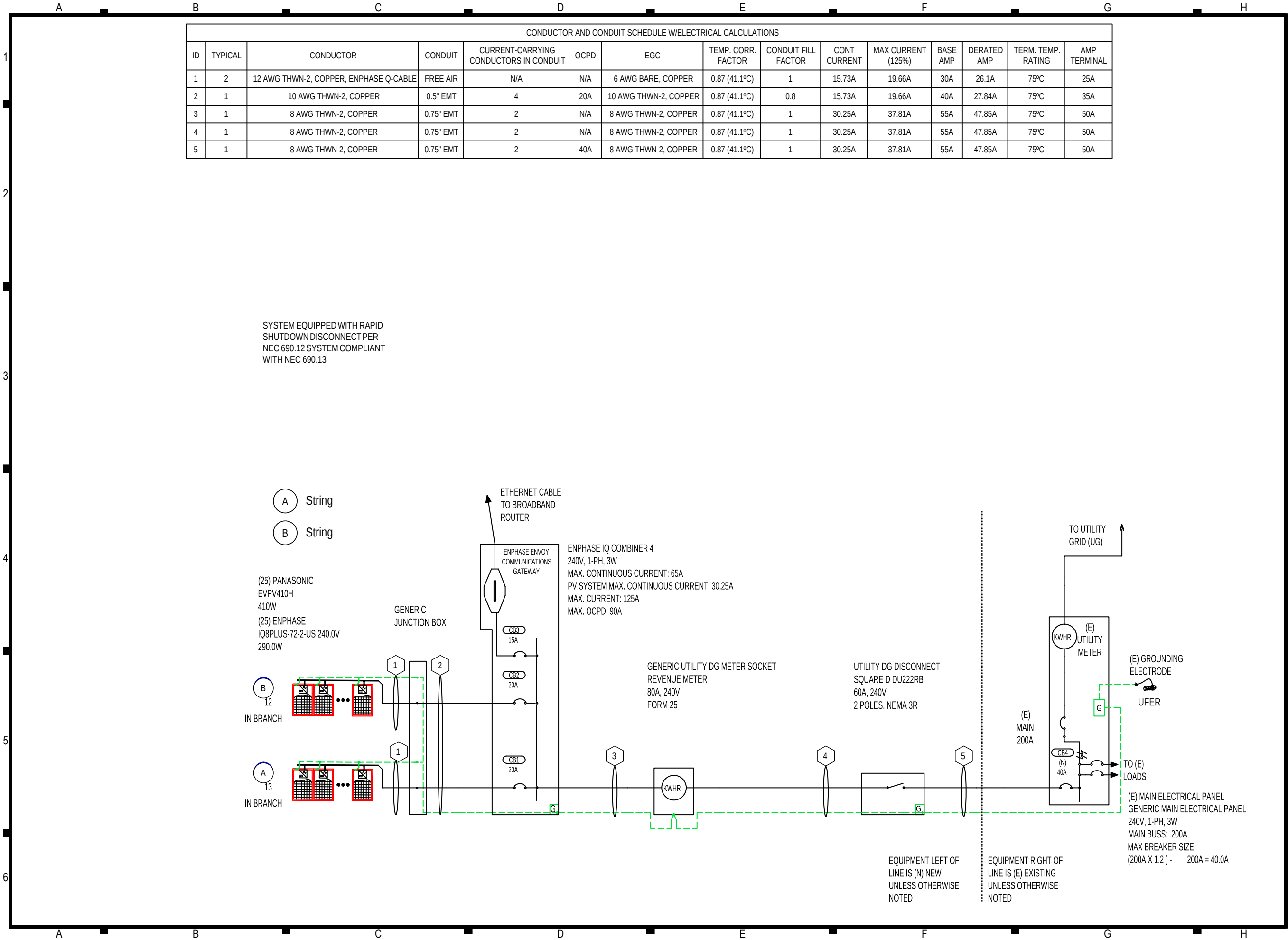
ELECTRICAL PLAN

DATE: 2023-07-31

DESIGN BY: A. Shapovalenko

CHECKED BY: UKRDRAFTING

REVISIONS



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LINE DIAGRAM

DATE: 2023-07-31

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REVISIONS

E-601

(SHEET 2)