



CONTRACTOR

SUNBLAZE ENERGY

PHONE: (520) 900-6110
ADDRESS: 1016 EAST PENNSYLVANIA
STREET PIMA COUNTY TUCSON,
AZ 85714

LIC.NO.: AZ ROC #331687

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)

LINE DIAGRAM

DATE: 2023-10-10

DESIGN BY: I. Poliashenko

CHECKED BY: UKRDRAFTING

REVISIONS

E-601

(SHEET 2)

CONDUCTOR AND CONDUIT SCHEDULE W/ELECTRICAL CALCULATIONS

ID	TYPICAL	CONDUCTOR	CONDUIT	CURRENT-CARRYING CONDUCTORS IN CONDUIT	OCPD	EGC	TEMP. CORR. FACTOR	CONDUIT FILL FACTOR	CONT CURRENT	MAX CURRENT (125%)	BASE AMP	DERATED AMP	TERM. TEMP. RATING	AMP TERMINAL
1	2	12 AWG THWN-2, COPPER, ENPHASE Q-CABLE	FREE AIR	N/A	N/A	12 AWG THWN-2, COPPER	0.87 (41.1°C)	1	15.73A	19.66A	30A	26.1A	75°C	25A
2	1	10 AWG THWN-2, COPPER	0.5" EMT	4	20A	12 AWG THWN-2, COPPER	0.87 (41.1°C)	0.8	15.73A	19.66A	40A	27.84A	75°C	35A
3	1	8 AWG THWN-2, COPPER	0.75" EMT	2	N/A	10 AWG THWN-2, COPPER	0.87 (41.1°C)	1	30.25A	37.81A	55A	47.85A	75°C	50A
4	1	8 AWG THWN-2, COPPER	0.75" EMT	2	N/A	10 AWG THWN-2, COPPER	0.87 (41.1°C)	1	30.25A	37.81A	55A	47.85A	75°C	50A
5	1	8 AWG THWN-2, COPPER	0.75" EMT	2	40A	10 AWG THWN-2, COPPER	0.87 (41.1°C)	1	30.25A	37.81A	55A	47.85A	75°C	50A

PV SYSTEM EQUIPPED WITH RAPID
SHUTDOWN DISCONNECT PER
NEC 690.12 SYSTEM COMPLIANT
WITH NEC 690.13

