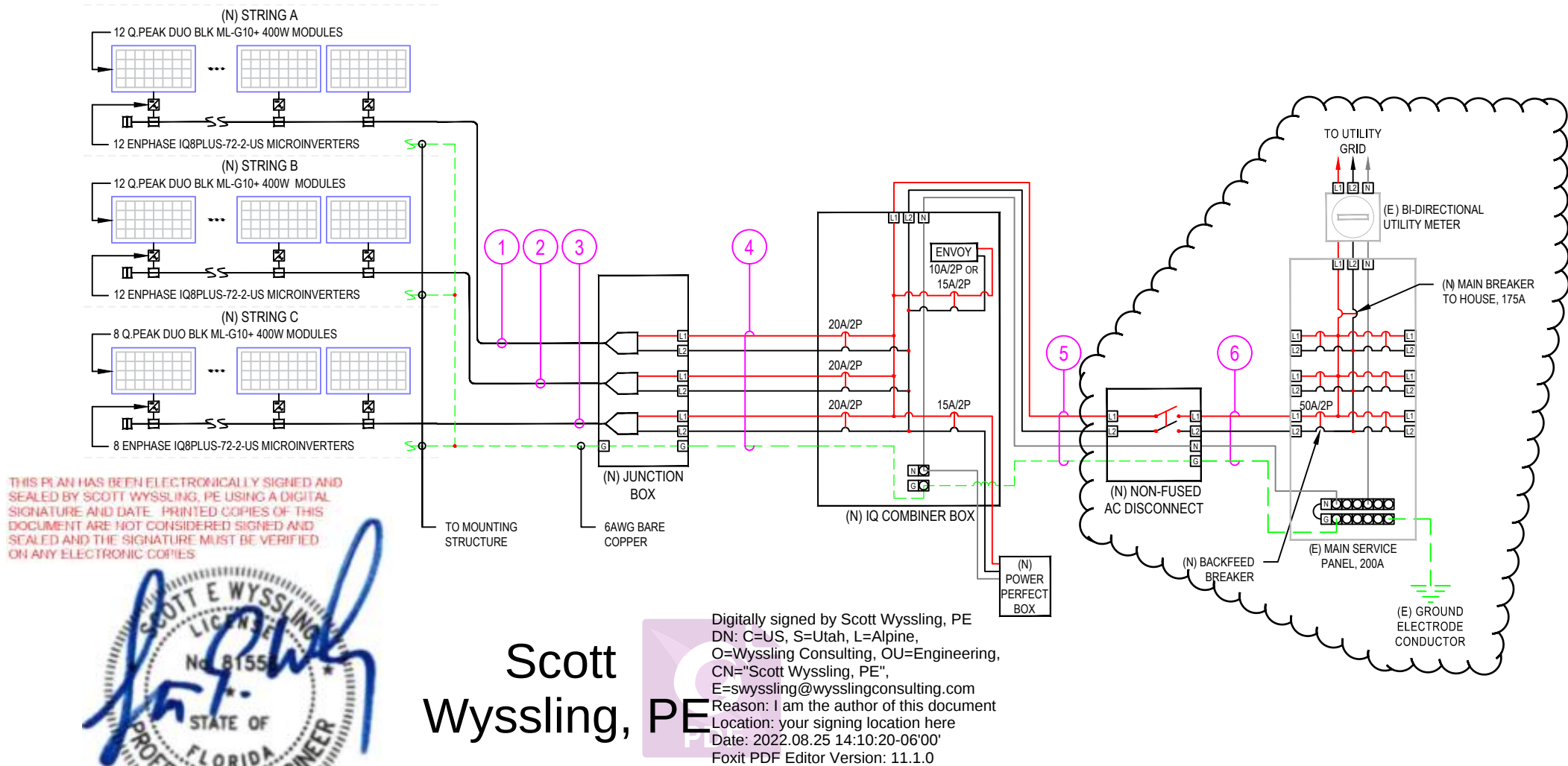


ID	INITIAL CONDUCTOR LOCATION	FINAL CONDUCTOR LOCATION	MIN. CONDUCTOR SIZE (AWG)		MIN. DIA CONDUIT SIZE (IN.)	# OF PARALLEL CIRCUITS	CURRENT-CARRYING CONDUCTORS IN CONDUIT	OCPD (A)	MIN. EGC SIZE (AWG)		TEMP. CORR. FACTOR		CONDUIT FILL FACTOR	CONT. CURRENT (A)	MAX. CURRENT (A)	BASE AMP. (A)	DERATED AMP. (A)	TERM. AMP. RATING (A)	LENGTH (FT)	VOLTAGE DROP (%)
1	STRING A	JUNCTION BOX	12	Q CABLE	N/A	1	2	N/A	6	BARE COPPER	0.76	55°C	N/A	14.52	18.15	30	N/A	N/A	50.00	0.49
2	STRING B	JUNCTION BOX	12	Q CABLE	N/A	1	2	N/A	6	BARE COPPER	0.76	55°C	N/A	14.52	18.15	30	N/A	N/A	45.00	0.44
3	STRING C	JUNCTION BOX	12	Q CABLE	N/A	1	2	N/A	6	BARE COPPER	0.76	55°C	N/A	9.68	12.10	30	N/A	N/A	80.00	0.52
4	JUNCTION BOX	IQ COMBINER	10	THWN-2 COPPER	0.75 LTNM	3	6	20	10	THWN-2 COPPER	0.96	55°C	0.8	14.52	18.15	40	24.3	35	35.00	0.53
5	IQ COMBINER	AC DISCONNECT	8	THWN-2 COPPER	0.75 LTNM	1	3	N/A	10	THWN-2 COPPER	0.96	33°C	1	38.72	48.40	55	52.8	50	5.00	0.13
6	AC DISCONNECT	MSP	8	THWN-2 COPPER	0.75 LTNM	1	3	50	10	THWN-2 COPPER	0.96	33°C	1	38.72	48.40	55	52.8	50	5.00	0.13

NOTE: LTNM OR EQUIVALENT TYPE CONDUIT



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Date Signed 08-25-22

Scott
Wyssling, PE

Digitally signed by Scott Wyssling, PE
DN: C=US, S=Utah, L=Alpine,
O=Wyssling Consulting, OU=Engineering,
CN="Scott Wyssling, PE",
E=swyssling@wysslingconsulting.com
Reason: I am the author of this document
Location: your signing location here
Date: 2022.08.25 14:10:20-06'00'
Foxit PDF Editor Version: 11.1.0

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1 | ELECTRICAL LINE DIAGRAM

E-2

SCALE: NTS



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PROJECT NAME & ADDRESS

ALVIN MEEKS
RESIDENCE
208 SE TEVIS AVE
LAKE CITY, FL 32025

SIGNATURE WITH SEAL



REVISIONS

DESCRIPTION	DATE	REV
BREAKER INJECTION	8/23/22	A

Drawn by: N.R.

Checked by: S.W.

Date: 8/1/22

SHEET NAME

ELECTRICAL LINE
DIAGRAM & CALCS.

SHEET NUMBER

E-2

LEGEND

(E) - EXISTING
(N) - NEW

DESIGN TEMPERATURE SPECIFICATIONS

RECORD LOW TEMP	1°C
AMBIENT TEMP (HIGH TEMP 2%)	35°C
CONDUIT HEIGHT	1.0"
CONDUCTOR TEMPERATURE RATE (ROOF)	56°C