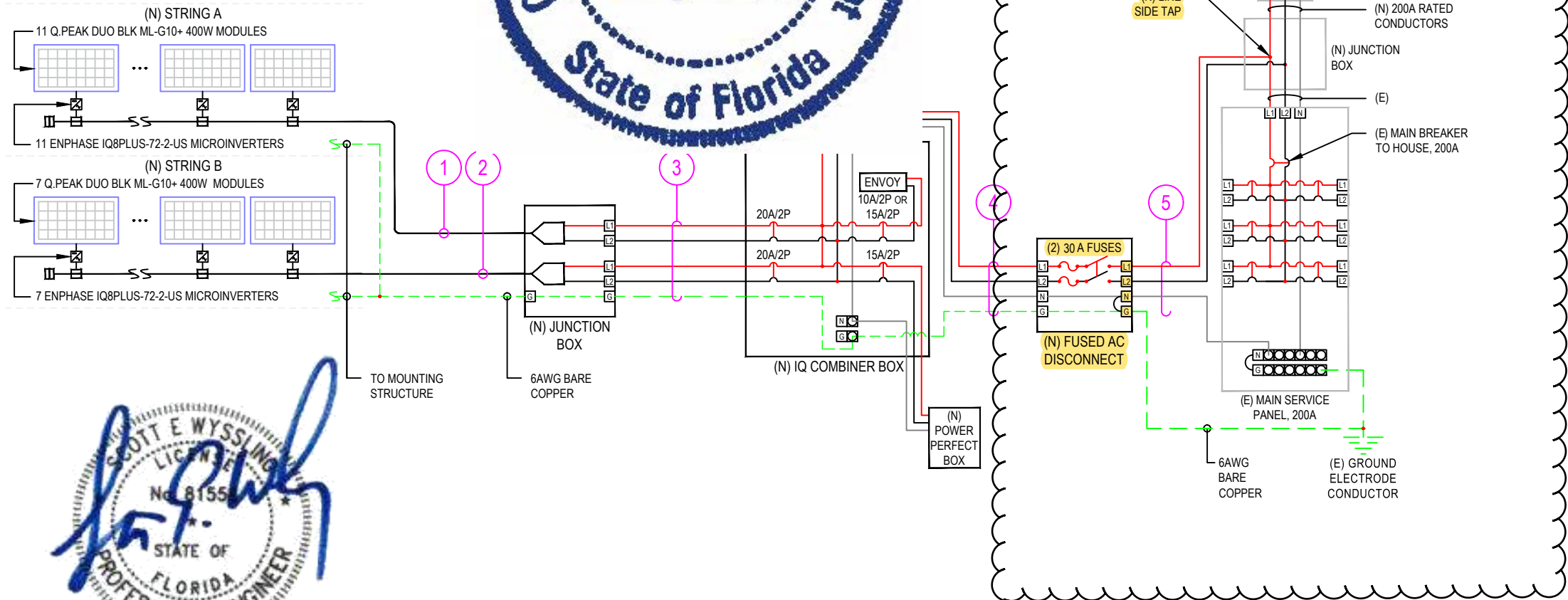


ID	INITIAL CONDUCTOR LOCATION	FINAL CONDUCTOR LOCATION	MIN. CONDUCTOR SIZE (AWG)		MIN. DIA CONDUIT SIZE (IN.)	# OF PARALLEL CIRCUITS	CURRENT-CARRYING CONDUCTORS IN CONDUIT	OCPD (A)	MIN. EGC SIZE (AWG)		TEMP. CORR. FACTOR		CONDUIT FILL FACTOR	CONT. CURRENT (A)	MAX. CURRENT (A)	BASE AMP. (A)	DERATED AMP. (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	0.71	56°C	N/A	13.31	16.64	30	N/A	N/A	65.00	0.58
2	STRING B	JUNCTION BOX	12	Q CABLE	N/A	1	2	N/A	6	BARE COPPER	0.71	56°C	N/A	8.47	10.59	30	N/A	N/A	35.00	0.49
3	JUNCTION BOX	IQ COMBINER	10	THWN-2 COPPER	0.75 LTNM	2	4	20	10	THWN-2 COPPER	0.71	56°C	0.8	13.31	16.64	40	22.7	35	35.00	0.48
4	IQ COMBINER	AC DISCONNECT	10	THWN-2 COPPER	0.75 LTNM	1	3	30	10	THWN-2 COPPER	0.96	35°C	1	21.78	27.23	40	38.4	35	5.00	0.11
5	AC DISCONNECT	MSP	6	THWN-2 COPPER	0.75 LTNM	1	3	N/A	-	-	0.96	35°C	1	21.78	27.23	75	72.0	65	5.00	0.04

NOTE: LTNM OR EQUIVALENT TYPE CONDUIT



Scott
Wyssling,
PE



Wyssling Consulting, PLLC
76 N Meadowbrook Drive Alpine UT 84004
Florida License # RY34912
Signed 7/28/2022

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1 | ELECTRICAL LINE DIAGRAM
E-2 | SCALE: NTS

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

ATLANTIC KEY ENERGY LLC
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STE B
WINTER PARK, FL 32792
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PROJECT NAME & ADDRESS

KATHRYN RAY
RESIDENCE
446 SE TRIBBLE ST
LAKE CITY, FL 32025

ENGINEER CONTACT INFORMATION

SCOTT WYSSLING
LICENSE# 81558
76 N MEADOWBROOK DR.,
ALPINE, UT 84004

SIGNATURE WITH SEAL

REVISIONS		
DESCRIPTION	DATE	REV
TAP BOX	07/14/2022	A

Drawn by: N.R.
Checked by: S.W.
Date: 6/28/22

SHEET NAME
ELECTRICAL LINE
DIAGRAM & CALCS.
SHEET NUMBER
E-2