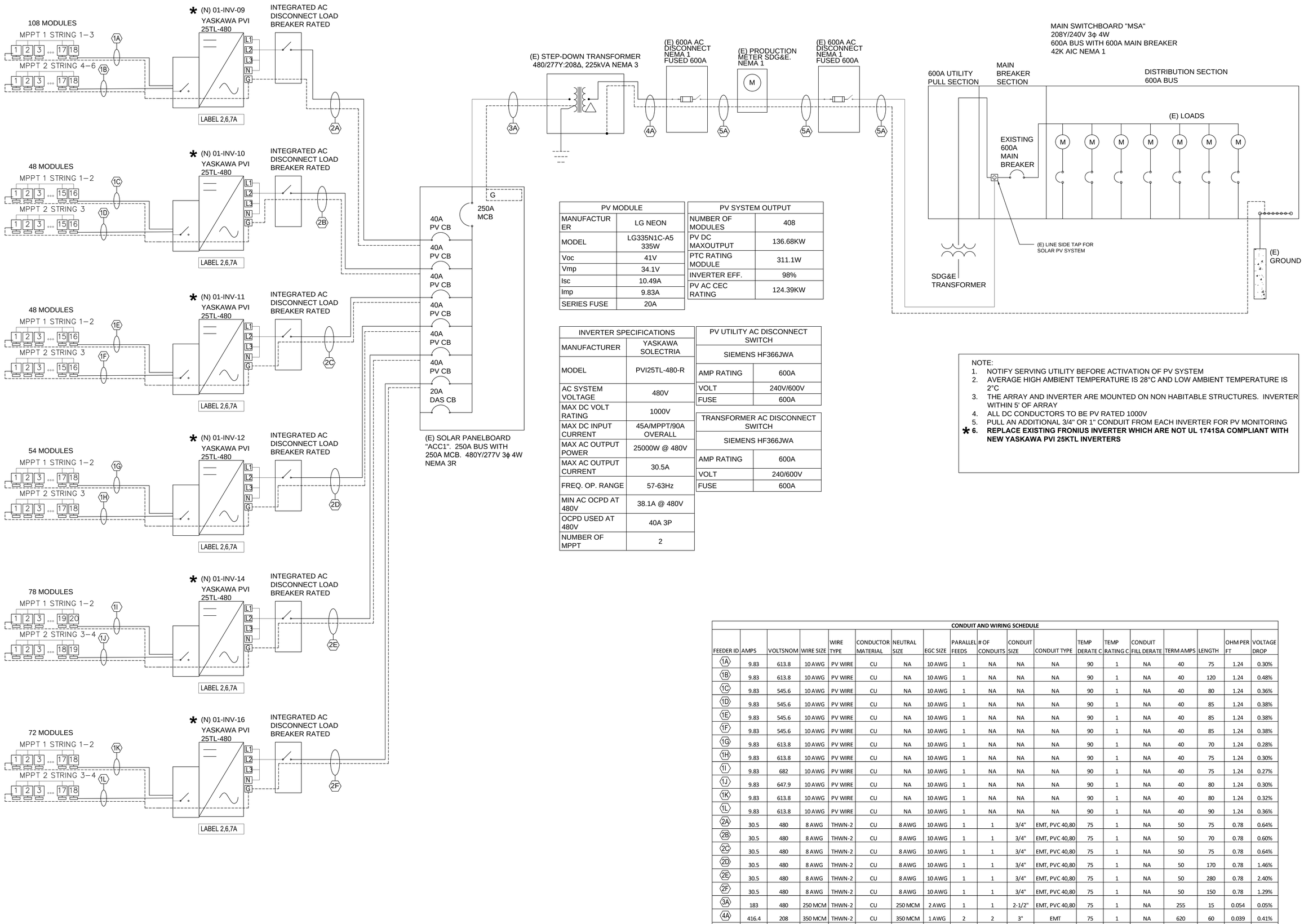

PV MODULE	
MANUFACTURER	LG NEON
MODEL	LG335N1C-A5 335W
Voc	41V
Vmp	34.1V
Isc	10.49A
Imp	9.83A
SERIES FUSE	20A

PV SYSTEM OUTPUT	
NUMBER OF MODULES	408
PV DC MAXOUTPUT	136.68KW
PTC RATING MODULE	311.1W
INVERTER EFF.	98%
PV AC CEC RATING	124.39KW

INVERTER SPECIFICATIONS	
MANUFACTURER	YASKAWA SOLECTRIA
MODEL	PVI25TL-480-R
AC SYSTEM VOLTAGE	480V
MAX DC VOLT RATING	1000V
MAX DC INPUT CURRENT	45A/MPPT/90A OVERALL
MAX AC OUTPUT POWER	25000W @ 480V
MAX AC OUTPUT CURRENT	30.5A
FREQ. OP. RANGE	57-63Hz
MIN AC OCPD AT 480V	38.1A @ 480V
OCPD USED AT 480V	40A 3P
NUMBER OF MPPT	2

PV UTILITY AC DISCONNECT SWITCH	
SIEMENS HF366JWA	
AMP RATING	600A
VOLT	240V/600V
FUSE	600A

TRANSFORMER AC DISCONNECT SWITCH	
SIEMENS HF366JWA	
AMP RATING	600A
VOLT	240/600V
FUSE	600A

NOTE:
1. NOTIFY SERVING UTILITY BEFORE ACTIVATION OF PV SYSTEM
2. AVERAGE HIGH AMBIENT TEMPERATURE IS 28°C AND LOW AMBIENT TEMPERATURE IS 2°C
3. THE ARRAY AND INVERTER ARE MOUNTED ON NON HABITABLE STRUCTURES. INVERTER WITHIN 5' OF ARRAY
4. ALL DC CONDUCTORS TO BE PV RATED 1000V
5. PULL AN ADDITIONAL 3/4" OR 1" CONDUIT FROM EACH INVERTER FOR PV MONITORING
* **6. REPLACE EXISTING FRONIUS INVERTER WHICH ARE NOT UL 1741SA COMPLIANT WITH NEW YASKAWA PVI 25KTL INVERTERS**

CONDUIT AND WIRING SCHEDULE

FEEDER ID	AMPS	VOLTSNOM	WIRE SIZE	WIRE TYPE	CONDUCTOR MATERIAL	NEUTRAL SIZE	EGC SIZE	PARALLEL FEEDS	# OF CONDUITS	CONDUIT SIZE	CONDUIT TYPE	TEMP DERATE C	TEMP RATING C	CONDUIT FILL DERATE	TERM AMPS	LENGTH	OHM PER FT	VOLTAGE DROP
1A	9.83	613.8	10 AWG	PV WIRE	CU	NA	10 AWG	1	NA	NA	NA	90	1	NA	40	75	1.24	0.30%
1B	9.83	613.8	10 AWG	PV WIRE	CU	NA	10 AWG	1	NA	NA	NA	90	1	NA	40	120	1.24	0.48%
1C	9.83	545.6	10 AWG	PV WIRE	CU	NA	10 AWG	1	NA	NA	NA	90	1	NA	40	80	1.24	0.36%
1D	9.83	545.6	10 AWG	PV WIRE	CU	NA	10 AWG	1	NA	NA	NA	90	1	NA	40	85	1.24	0.38%
1E	9.83	545.6	10 AWG	PV WIRE	CU	NA	10 AWG	1	NA	NA	NA	90	1	NA	40	85	1.24	0.38%
1F	9.83	545.6	10 AWG	PV WIRE	CU	NA	10 AWG	1	NA	NA	NA	90	1	NA	40	85	1.24	0.38%
1G	9.83	613.8	10 AWG	PV WIRE	CU	NA	10 AWG	1	NA	NA	NA	90	1	NA	40	70	1.24	0.28%
1H	9.83	613.8	10 AWG	PV WIRE	CU	NA	10 AWG	1	NA	NA	NA	90	1	NA	40	75	1.24	0.30%
1I	9.83	682	10 AWG	PV WIRE	CU	NA	10 AWG	1	NA	NA	NA	90	1	NA	40	75	1.24	0.27%
1J	9.83	647.9	10 AWG	PV WIRE	CU	NA	10 AWG	1	NA	NA	NA	90	1	NA	40	80	1.24	0.30%
1K	9.83	613.8	10 AWG	PV WIRE	CU	NA	10 AWG	1	NA	NA	NA	90	1	NA	40	80	1.24	0.32%
1L	9.83	613.8	10 AWG	PV WIRE	CU	NA	10 AWG	1	NA	NA	NA	90	1	NA	40	90	1.24	0.36%
2A	30.5	480	8 AWG	THWN-2	CU	8 AWG	10 AWG	1	1	3/4"	EMT, PVC 40,80	75	1	NA	50	75	0.78	0.64%
2B	30.5	480	8 AWG	THWN-2	CU	8 AWG	10 AWG	1	1	3/4"	EMT, PVC 40,80	75	1	NA	50	70	0.78	0.60%
2C	30.5	480	8 AWG	THWN-2	CU	8 AWG	10 AWG	1	1	3/4"	EMT, PVC 40,80	75	1	NA	50	75	0.78	0.64%
2D	30.5	480	8 AWG	THWN-2	CU	8 AWG	10 AWG	1	1	3/4"	EMT, PVC 40,80	75	1	NA	50	170	0.78	1.46%
2E	30.5	480	8 AWG	THWN-2	CU	8 AWG	10 AWG	1	1	3/4"	EMT, PVC 40,80	75	1	NA	50	280	0.78	2.40%
2F	30.5	480	8 AWG	THWN-2	CU	8 AWG	10 AWG	1	1	3/4"	EMT, PVC 40,80	75	1	NA	50	150	0.78	1.29%
3A	183	480	250 MCM	THWN-2	CU	250 MCM	2 AWG	1	1	2-1/2"	EMT, PVC 40,80	75	1	NA	255	15	0.054	0.05%
4A	416.4	208	350 MCM	THWN-2	CU	350 MCM	1 AWG	2	2	3"	EMT	75	1	NA	620	60	0.039	0.41%
5A	416.4	208	350 MCM	THWN-2	CU	350 MCM	1 AWG	2	2	3"	EMT	75	1	NA	620	15	0.039	0.10%

ELITE ELECTRIC, INC.
9415 BELLEGRAVE AVE, RIVERSIDE, CA 92509
(951) 681-5811

CONTRACTOR:
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FAX: (951) 681-9543
C-10
LICENSE #: CA #418242

SHEET TITLE: AC/DC SINGLE LINE DIAGRAM BUILDING 1

PROJECT: R-12A MONTECITO VILLAGE APARTMENTS
1625 SANTA VENETIA ST
CHULA VISTA, CA 91913

PROJECT NO. 21-122
DATE 11-23-2021
SCALE NTS
PERMIT
DRAWN BY MH

REVISION NO.
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