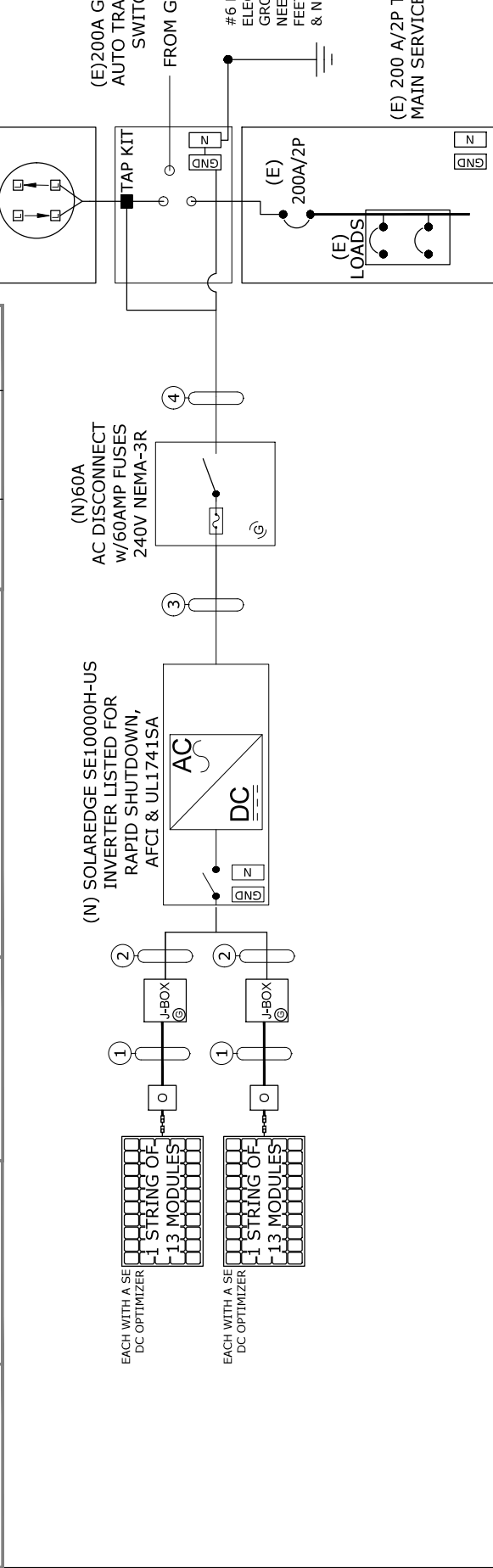


WIRE TAG #	CONDUIT	WIRE QTY	WIRE GAUGE	WIRE TYPE	TEMP RATING	WIRE AMP	TEMP DE-RATE	CONDUIT FILL	WIRE OCP	TERMINAL 75°C RATING	STRING WATTAGE	OPERATING VOLTAGE	MAX AMPS	MAX SYSTEM VOLTAGE	GRND SIZE	GRND WIRE TYPE	
1	Open Air	2	#10	PV WIRE	90°	40 X	0.96	X 1	= 38.40A	35 A	5395	/ 400	= 13.49	X 1.25	= 16.86A	#6	SBC
2	3/4" EMT	2	#10	THWN-2	90°	40 X	0.96	X 1	= 38.40A	35 A	5395	/ 400	= 13.49	X 1.25	= 16.86A	#10	THWN-2
3	3/4" EMT	3	#6	THWN-2	90°	75 X	0.96	X 1	= 72.00A	65 A	/	=	42	X 1.25	= 52.50A	#6	THWN-2
4	3/4" EMT	3	#6	THWN-2	90°	75 X	0.96	X 1	= 72.00A	65 A	/	=	42	X 1.25	= 52.50A	#6	THWN-2

INVERTER SPECS		OPTIMIZER SPECS		DISCONNECTS		MODULE SPECS		ASHRAE AMBIENT TEMPERATURE SPECS		
INVERTER: SE10000H-US		OPTIMIZER: S440		MAKE: EATON DG222NRB		MODULE TYPE: QTY: 26		High Temp		
QTY: 1		MAX STRING		WATTAGE: 415		CS3N-415WS		DISTANCE ABOVE ROOF		
VOLTAGE: 240		WATTAGE: 5700		RATED CURRENT: 60A		Voc: 45.1V		2% Avg. 1"		
NEC EFF: 10000		CELL: 60		MAX RATED VOLTAGE: 240V		Imp: 11.68A		NO TEMP ADJER PER 310.15(B)(3)(C)		
99%		ISC: 14.5				Vpmax: 37.8V		-1.4° C		



UTILITY HAS 24-HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC SYSTEM COMPONENTS LOCATED AT THE SERVICE ENTRANCE, CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC ARTICLE 300.6 (C) (1) AND ARTICLE 310.10 (D). CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC ARTICLE 310.10 (C). ALL BOS COMPONENTS SHALL BE INSTALLED WITHIN 10 FT OF ADJACENT COMPONENTS

 Solar Energy and Energy Efficiency	JOB NUMBER: P-004726	OWNER: RAJINDER TANWAR, 132 MORRISON CT NEW ORLEANS, LA 70127	DESCRIPTION: RAJINDER TANWAR, RESIDENCE	STAMP: PV-5
	UTILITY: ENERGY	ACCOUNT NUMBER : 59817916	10,79 KWDC ROOF SOLAR SYSTEM	PAGE NAME: SINGLE-LINE DIAGRAM
<b>POSIGEN DEVELOPER, LLC</b> 819 CENTRAL AVE STE 210 JEFFERSON, LA 70121 LA ELECTRICAL LICENSE : 74446	RACKING: K2 CROSSRAIL SYSTEM MODULES: (26) CANADIAN SOLAR CS3N-415WS OPTIMIZER: (26) SOLAREDDGE S440 OPTIMIZER INVERTER: (1) SOLAREDDGE SE10000H-US	PRODUCTION: 12,983KWH	SCALE: NTS DATE: 9/21/2022	DESIGNED BY: ENERQUAL REV:

	<p><b>GROUNDING NOTES</b></p> <p>ALL EQUIPMENT SHALL BE PROPERLY GROUNDED PER THE REQUIREMENTS OF NEC ARTICLES 250 &amp; 690</p>	<p>EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED ACCORDING TO NEC ARTICLE 690.45, AND BE A MINIMUM OF #10AWG WHEN NOT EXPOSED TO DAMAGE, AND #6AWG SHALL BE USED WHEN EXPOSED TO DAMAGE</p>	<p><b>NOTES :</b></p> <ol style="list-style-type: none"> <li>MATING CONNECTORS SHALL COMPLY WITH NEC 690.33.</li> <li>SOLAR EDGE SYSTEM MEETS REQUIREMENTS FOR PHOTOVOLTAIC RAPID SHUTDOWN SYSTEM (PVRSS), AS PER NEC 690.12(B).</li> <li>THE SPECIFIED OPTIMIZER CAN BE SUBSTITUTED WITH A P400, P405, P505, P401, OR P485. THESE OPTIMIZERS HAVE AN INPUT VOLTAGE WINDOW WIDE ENOUGH TO ACCOMMODATE THE OUTPUT VOLTAGE RANGE OF THE MODULE AT THE DESIGN TEMPERATURES, HAVE A MAX INPUT CURRENT RATING THAT IS ABOVE THE MAX OUTPUT CURRENT OF THE MODULE, AND A MAX POWER INPUT THAT IS ABOVE THE RATED POWER OUTPUT OF THE MODULE.</li> <li>DC PV CONDUCTORS ARE NOT SOLIDLY-GROUNDED. NO DC PV CONDUCTOR SHALL BE WHITE- OR GRAY-COLORED</li> <li>ALL METAL ENCLOSURES, RACEWAYS, CABLES AND EXPOSED NONCURRENT-CARRYING METAL PARTS OF EQUIPMENT SHALL BE GROUNDED TO EARTH AS REQUIRED BY NEC 250.4(A) AND PART III OF ARTICLE 250 AND EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED ACCORDING TO NEC 690.45. THE GROUNDING ELECTRODE SYSTEM SHALL ADHERE TO NEC 690.47(A) AND NEC 250.169. THE DC GROUNDING ELECTRODE SHALL BE SIZED ACCORDING TO NEC 250.166 AND INSTALLED IN COMPLIANCE WITH NEC 250.64.</li> <li>MAX DC VOLTAGE OF ARRAY FIXED BY THE INVERTER AT 380V REGARDLESS OF TEMPERATURE. THE MAX DC VOLTAGE OF THE MODULE AT -15°C IS 53.2V (-15°C - 25°C) X -0.138V/C + 47.7V = 53.2V.</li> <li>POINT-OF-CONNECTION IS ON THE SUPPLY SIDE OF SERVICE DISCONNECT, INSIDE PANELBOARD ENCLOSURE USING UNUSED TERMINALS, TERMINALS THAT ARE SUITABLE FOR DOUBLE LUGGING, OR USING OTHER LOCALLY-APPROVED METHODS AND HARDWARE, IN COMPLIANCE WITH NEC 705.12(A). THE PANELBOARD SHALL HAVE SUFFICIENT SPACE TO ALLOW FOR ANY TAP HARDWARE AS REQUIRED BY NEC 110.3 AND NEC 312.8(A)</li> <li>PV SYSTEM DISCONNECT SHALL BE A VISIBLE KNIFE-BLADE TYPE DISCONNECT THAT IS ACCESSIBLE AND LOCKABLE BY THE UTILITY. THE DISCONNECT SHALL BE LOCATED WITHIN 10 FT OF UTILITY METER. DISCONNECT SHALL BE GROUPED IN ACCORDANCE WITH NEC 230.72.</li> </ol>
1	<p>INSTALLER SHALL CONFIRM THAT MOUNTING SYSTEM HAS BEEN EVALUATED FOR COMPLIANCE WITH UL 2703 "GROUNDING AND BONDING" WHEN USED WITH PROPOSED PV MODULE.</p>		
2	<p>PV MODULES SHALL BE GROUNDED TO MOUNTING RAILS USING MODULE LUGS OR RACKING INTEGRATED GROUNDING CLAMPS AS ALLOWED BY LOCAL JURISDICTION. ALL OTHER EXPOSED METAL PARTS SHALL BE GROUNDED USING UL-LISTED LAY-IN LUGS.</p>		
3	<p>GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLOR CODED GREEN, OR MARKED GREEN IF #4AWG OR LARGER</p>		
4	<p>AC SYSTEM GROUNDING ELECTRODE CONDUCTOR (GEC) SHALL BE A MINIMUM SIZE #8AWG WHEN INSULATED, #6AWG IF BARE WIRE.</p>		
5	<p>IF THE EXISTING MAIN SERVICE PANEL DOES NOT HAVE A VERIFIABLE GROUNDING ELECTRODE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE.</p>		
6			
	<p><b>OWNER:</b> RAJINDER TANWAR, 132 MORRISON CT NEW ORLEANS , LA 70127</p>	<p><b>DESCRIPTION:</b> RAJINDER TANWAR, RESIDENCE 10.79 kWDC ROOF SOLAR SYSTEM PRODUCTION: 12.983kWh</p>	<p><b>STAMP:</b></p>
	<p><b>JOB NUMBER:</b> P-004726</p>	<p><b>ACCOUNT NUMBER :</b> 59817916</p>	<p><b>PV-5.1</b></p>
	<p><b>UTILITY:</b> ENERGY</p>		<p>PAGE NAME: ELECTRICAL NOTES</p>
	<p><b>RACKING:</b> K2 CROSSRAIL SYSTEM</p>		<p>SCALE: NTS</p>
	<p><b>MODULES:</b> (26)CANADIAN SOLAR CS3N-4-15MS</p>		<p>DATE: 9/21/2022</p>
	<p><b>OPTIMIZER:</b> (26) SOLAREEDGE S440 OPTIMIZER</p>	<p><b>DESIGNED BY:</b> ENERQUAL</p>	
	<p><b>INVERTER:</b> (1)SOLAREEDGE SE10000H-US</p>		
	<p><b>PosiGen</b> Solar Energy and Energy Efficiency</p>		
	<p><b>POSIGEN DEVELOPER, LLC</b> 819 CENTRAL AVE STE 210 JEFFERSON, LA 70121</p>		
	<p>LA ELECTRICAL LICENSE :74446</p>		