

SYSTEM SUMMARY				MODULES										
	BRANCH #1	BRANCH #2	BRANCH #3	REF.	QTY.	MAKE AND MODEL	PMAX	PTC	ISC	IMP	VOC	VMP	TEMP. COEFF. OF VOC	FUSE RATING
INVERTERS PER BRANCH	5	5	3	PM1-13	13	HELIENE	305W	281.82W	9.68A	9.20A	39.98V	9.20V	-0.144V/°C (-0.36%/°C)	20A
MAX AC CURRENT	6.05A	6.05A	3.63A	INVERTERS										
MAX AC OUTPUT POWER	1,450W	1,450W	870W	REF.	QTY	MAKE AND MODEL	AC VOLTAGE	GROUND	OCPD RATING	RATED POWER	MAX OUTPUT CURRENT	MAX INPUT CURRENT	MAX INPUT VOLTAGE	CEC WEIGHTED EFFICIENCY
ARRAY STC POWER	3,965W			I1-13	13	ENPHASE IQ7PLUS-72-2-US	240A	FLOATING	20A	290W	1.21A	20A	60V	97.0%
ARRAY PTC POWER	3,664W			DISCONNECTS										
MAX AC CURRENT	15.73A			REF.	QTY.	MAKE AND MODEL	RATED CURRENT		MAX RATED VOLTAGE		OCPDS			
MAX AC POWER	3,770W			SW1-2	2	SQUARE D D222NRB	60A		240V		REF.	QTY	RATED CURRENT	MAX VOLTAGE
DERATED (CEC) AC POWER	3,554W			ASHRAE EXTREME LOW										
				ASHRAE 2% HIGH										
				-20.6°C (-5.1°F), SOURCE: VANCE AFB (-97.99°; 36.34°)										
				38°C (100.4°F), SOURCE: VANCE AFB (-97.99°; 36.34°)										
BILL OF MATERIAL														
CATEGORY	MAKE	MODEL NUMBER	REF	QTY	UNIT	QTY/UNIT	DESCRIPTION							
PV MODULE	HELIENE		PM1-13	13	PIECE	1								
INVERTER	ENPHASE	IQ7PLUS-72-2-US	I1-13	13	PIECE	1	ENPHASE IQ7PLUS-72-2-US 290W MICROINVERTER							
DISCONNECT	SQUARE D	D222NRB	SW1-2	2	PIECE	1	SQUARE D D222NRB, FUSED, 2-POLE, 60A, 240VAC, NEMA 3R OR EQUIVALENT							
AC COMBINER PANEL	ENPHASE	IQ COMBINER 3-ES	EP1	1	PIECE	1	ENPHASE IQ COMBINER 3-ES 125A COMBINER PANEL							
MONITORING	ENPHASE	ENPHASE-ENVOY	ENV1	1	PIECE	1	ENPHASE ENVOY							
WIRING	GENERIC	GEN-12-AWG-THWN-2-CU-RD&BLK	WR1	21	FEET	1	ENPHASE Q-CABLE							
WIRING	GENERIC	GEN-6-AWG-XHHW-AL-GR	WR1	21	FEET	1	6 AWG XHHW, ALUMINIUM, GREEN (GROUND)							
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-RD	WR2	10	FEET	1	10 AWG THWN-2, COPPER, RED (LINE 1)							
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-BLK	WR2	10	FEET	1	10 AWG THWN-2, COPPER, BLACK (LINE 2)							
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-GR	WR2	10	FEET	1	10 AWG THWN-2, COPPER, GREEN (GROUND)							
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-RD	WR3-4	20	FEET	1	10 AWG THWN-2, COPPER, RED (LINE 1)							
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-BLK	WR3-4	20	FEET	1	10 AWG THWN-2, COPPER, BLACK (LINE 2)							
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-GR	WR3-4	20	FEET	1	10 AWG THWN-2, COPPER, GREEN (GROUND)							
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-WH	WR3-4	20	FEET	1	10 AWG THWN-2, COPPER, WHITE (NEUTRAL)							
WIRING	GENERIC	GEN-6-AWG-THWN-2-CU-RD	WR5	10	FEET	1	6 AWG THWN-2, COPPER, RED (LINE 1)							
WIRING	GENERIC	GEN-6-AWG-THWN-2-CU-BLK	WR5	10	FEET	1	6 AWG THWN-2, COPPER, BLACK (LINE 2)							
WIRING	GENERIC	GEN-6-AWG-THWN-2-CU-GR	WR5	10	FEET	1	6 AWG THWN-2, COPPER, GREEN (GROUND)							
WIRING	GENERIC	GEN-6-AWG-THWN-2-CU-WH	WR5	10	FEET	1	6 AWG THWN-2, COPPER, WHITE (NEUTRAL)							
WIREWAY	GENERIC	GEN-EMT-0.5"-DIA	WW2-4	30	FEET	1	EMT CONDUIT 0.5" DIA							
WIREWAY	GENERIC	GEN-EMT-0.75"-DIA	WW5	10	FEET	1	EMT CONDUIT 0.75" DIA							
OCPD	GENERIC	GEN-CB-10A-240VAC	CB1-3	3	PIECES	1	CIRCUIT BREAKER, 10A, 240VAC							
OCPD	GENERIC	GEN-CB-15A-240VAC	CB4	1	PIECE	1	CIRCUIT BREAKER, 15A, 240VAC							
OCPD	GENERIC	GEN-FU-20A-240VAC	FU1-4	4	PIECES	1	FUSE, 20A, 240VAC							
TRANSITION ENCLOSURE	GENERIC	GEN-AWB-TB-4-4X	JB1	1	PIECE	1	TRANSITION/PASS-THROUGH BOX, WITH 4 TERMINAL BLOCKS							



CONTRACTOR

Strawberry Solar

PHONE: (313)-960-7900

ADDRESS: 4444 2ND AVENUE WAYNE COUNTY DETROIT, MI 48201

LIC.NO.: 2101211279

HIC.NO.:

ELE.NO.:

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NEW PV SYSTEM: 3900.0 KWP

PIERCE RESIDENCE

206 5TH STREET KREMLIN, OK 73753

APN: 643000011001004000

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

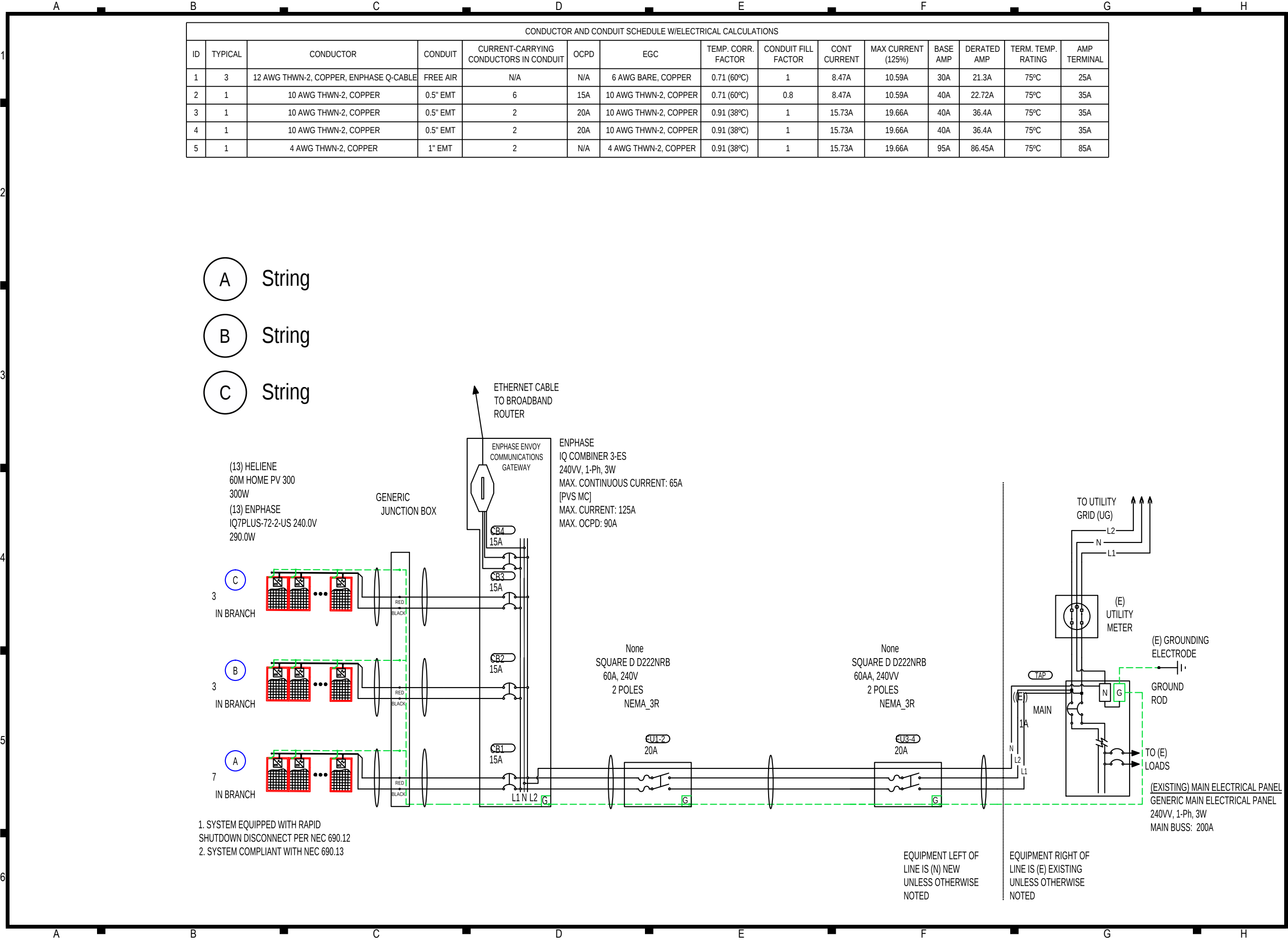
ELECTRICAL PLAN

DATE: 2023-06-07

DESIGN BY: STRAWBERRY SOLAR

CHECKED BY: UKRDRAFTING

REVISIONS



CONTRACTOR

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LINE DIAGRAM

DATE: 2023-06-07

DESIGN BY: STRAWBERRY SOLAR

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REVISIONS

E-601

(SHEET 2)