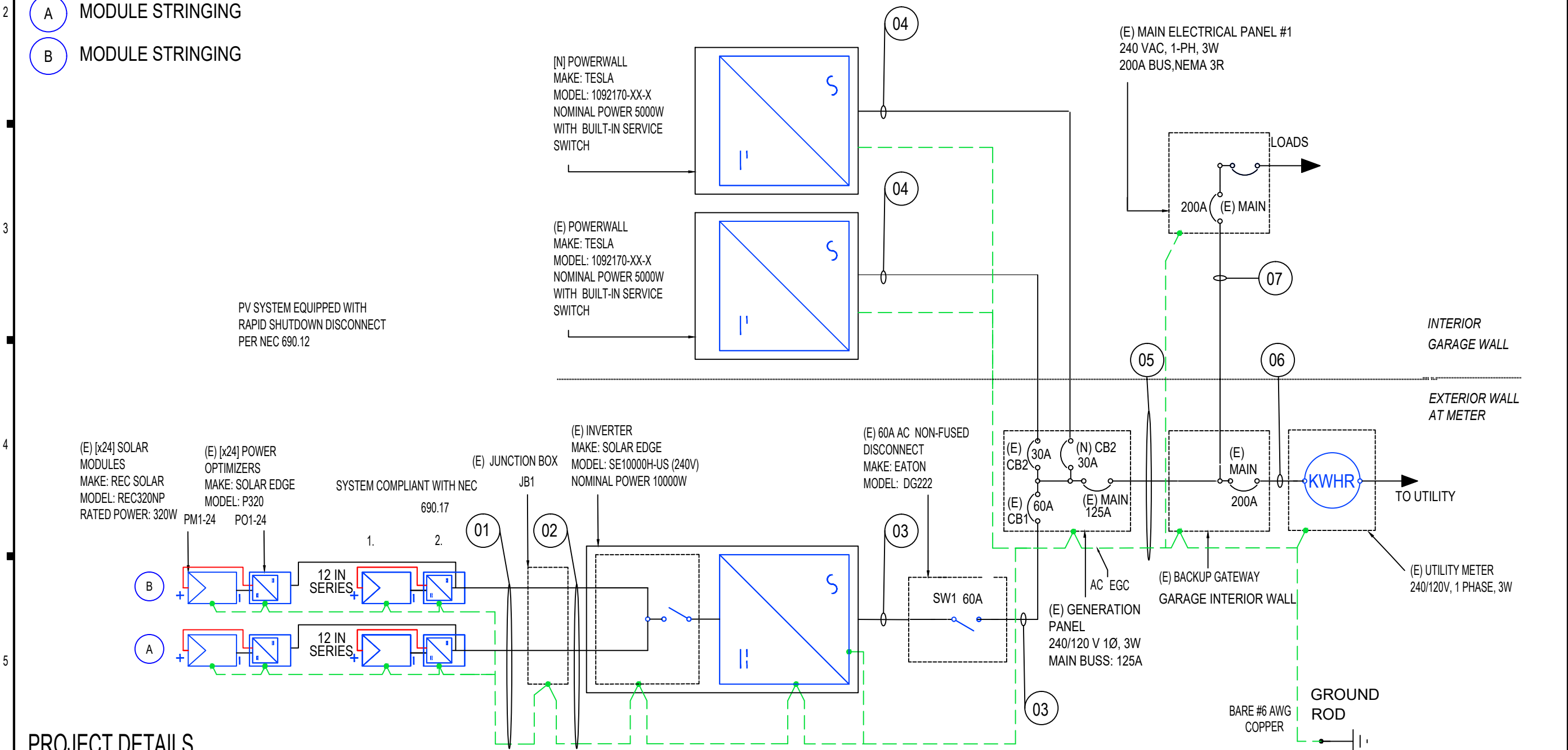


CONDUCTOR AND CONDUIT SCHEDULE W/ELECTRICAL CALCULATIONS

ID	TYPICAL	CONDUCTOR	CONDUIT	CURRENT-CARRYING CONDUCTORS IN CONDUIT	OCPD	EGC	TEMP. CORR. FACTOR	CONDUIT FILL FACTOR	CONT. CURRENT	MAX. CURRENT (125%)	BASE AMP.	DERATED AMP.	TERM. TEMP. RATING	AMP. @ TERMINAL
01	2	10 AWG PV WIRE, COPPER	FREE AIR	2	N/A	6 AWG BARE, COPPER	0.71 (59.1°C)	1	15A	18.75A	55A	39.05A	75°C	50A
02	1	10 AWG THWN-2, COPPER	0.75" DIA EMT	4	N/A	10 AWG THWN-2, COPPER	0.71 (59.1°C)	0.8	15A	18.75A	40A	22.72A	75°C	35A
03	1	6 AWG THWN-2, COPPER	0.75" DIA EMT	2	60A	10 AWG THWN-2, COPPER	0.91 (37.1°C)	1	42A	52.5A	75A	68.25A	75°C	65A
04	1	10 AWG THWN-2, COPPER	0.75" DIA EMT	2	30A	10 AWG THWN-2, COPPER	0.91 (37.1°C)	1	24A	30A	40A	36.4A	75°C	35A
05	1	1 AWG THWN-2, COPPER	1.5" DIA EMT	2	125A	4 AWG THWN-2, COPPER	0.91 (37.1°C)	1	150A	187.5A	115A	104.65A	75°C	105A
06	1	4/0 AWG THWN-2, ALUMINIUM	1.5" DIA EMT	2	N/A	4 AWG THWN-2, COPPER	0.91 (37.1°C)	1	205A	256.25A	115A	104.65A	75°C	105A
07	1	4/0 AWG THWN-2, ALUMINIUM	1.5" DIA EMT	2	200A	4 AWG THWN-2, COPPER	0.91 (37.1°C)	1	205A	256.25A	115A	104.65A	75°C	105A

- (A) MODULE STRINGING
- (B) MODULE STRINGING



PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN DISCONNECT PER NEC 690.12

PROJECT DETAILS

PROJECT OWNER: KAREN BRADEN
 PROJECT NAME: BRADEN RESIDENCE
 PROJECT ADDRESS: 295 CEDAR ROCK TRAIL, FUQUAY VARINA, NC 27526



CONTRACTOR

YES SOLAR SOLUTIONS
 PHONE: (919) 459-2846
 ADDRESS: 202 NORTH DIXON AVENUE
 CARY, NC 27513
 LIC. NO.: 67356
 HIC. NO.:
 ELE. NO.: 31227-U

UNAUTHORIZED USE OF THIS DRAWING SET WITHOUT WRITTEN PERMISSION FROM CONTRACTOR IS IN VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO CIVIL DAMAGES AND PROSECUTIONS.

EXIST PV SYSTEM: 7.680 kWp
 EXIST STORAGE: 5 kWp
 NEW STORAGE: 5 kWp

BRADEN RESIDENCE

295 CEDAR ROCK TRAIL
 FUQUAY VARINA, NC 27526
 APN: 050633011213

ENGINEER OF RECORD

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

LINE DIAGRAM

DATE: 01.31.2018
 DESIGN BY: A.L.
 CHECKED BY: M.M.
 REVISIONS: DQ 5.4.2020

E-601.00
 (SHEET 6)