



SYSTEM CALCULATIONS		
PV MODULE SPECS	Module A	Module B
MANUFACTURER:	Trina Solar	
MODEL:	TSM-540DEG19C.20	
QTY:	792	
NAMEPLATE RATING:	540W	
CEC RATING:	508.2	
Voc:	37.7V	
Isc:	19.58A	
INVERTER SPECS		
	25kW	
MANUFACTURER:	Sungrow Power Supply Co., Ltd.	
MODEL:	SG60CX-US [480V]	
QTY:	6	
NAMEPLATE RATING:	60kW	
AC VOLTAGE:	480VAC	
DC VOLTAGE:	200-1000V	
MAX OUTPUT CURRENT:	72.2A	
EFFICIENCY:	98.0%	
PV SYSTEM SIZE CALCULATIONS		
DC SYSTEM SIZE:	427.68kW	= MODULE QTY x MODULE WATTAGE
AC SYSTEM SIZE:	360kW	= INVERTER MAX AC OUTPUT x INVERTER QTY
CEC AC SYSTEM SIZE:	394.44kW	= MODULE QTY x CEC RATING x INV. EFFICIENCY
FAULT CONTRIBUTION:	384.6A	(1 Cycle RMS)

DEVELOPER  
**TRITEC**  
 AMERICAS  
**TRITEC AMERICAS**  
 888 PROSPECT ST.  
 LA JOLLA, CA 92037  
 PH (619) 363-3080

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ENGINEER OF RECORD

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OWNER / CLIENT  
**NEW BERLIN ELEMENTARY**  
 600 CEDAR ST  
 NEW BERLIN, IL 62670

PROJECT LOCATION  
**NEW BERLIN ELEMENTARY**  
 600 CEDAR ST  
 NEW BERLIN, IL 62670

APN: TBD

REV	DATE	DESCRIPTION
A	8/23/2020	IC DESIGN

DATE	8/25/21
PROJECT NUMBER	22-1200035
PROJECT MANAGER	DAVIS JOLLEY
PROJECT ENGINEER	CHRIS PETTIGREW

**INTERCONNECT**

SHEET TITLE  
 MASTER SITE PLAN

SHEET NUMBER  
**G301**