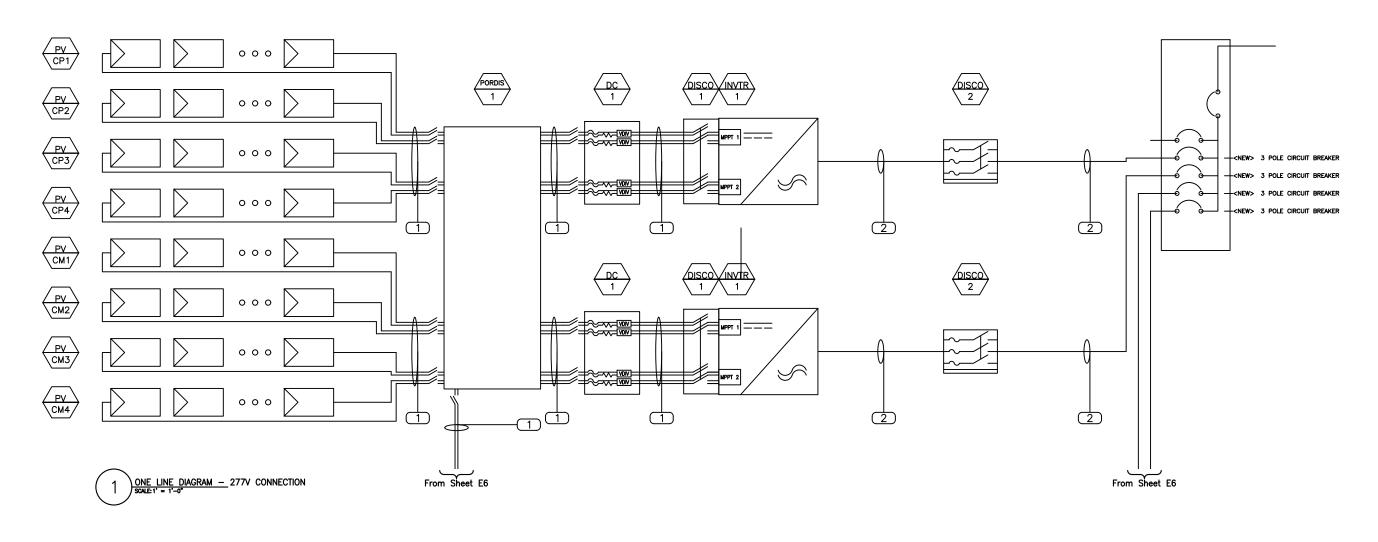
E5 One Line Diagram pg. 1.dwg



PV & LINE VOLTAGE WIRE, CABLE, AND CONDUIT SCHEDULE						
TAG	DESCRIPTION		NOTES			
1	1 - PV WIRE 10AWG 2000VDC RED	FREE AIR	CONDUCTORS FROM MODULE STRING TO PORDIS, FROM PORDIS TO INVERTER DISCONNECT, AND BETWEEN PORDIS UNITS - MUST BE UV RESISTANT			
	1 - PV WIRE 10AWG 2000VDC BLACK	FREE AIR				
2	4 - 10AWG THHN (BRO, ORG, YEL, NEUTRAL)		277VAC CONNECTION BETWEEN INVERTER AND 277V DISCONNECT, 277V DISCONNECT AND PANEL			
	1 - 10AWG THHN GREEN (GROUND)					

480V/277Y 3φ Wire Color Schedule					
Phase	Wire Color				
Α	Brown				
В	Orange				
С	Yellow				
Neutral	Gray or White				
Ground	Green				
PV String					
Wire Color Schedule					
Wire	Wire Color				
Positive (+)	Red				
Negative (-)	Black				
This is a general guideline.					

	PHOTOVOLTAIC EQUIPMENT SCHEDULE								
PROTOVOLIAIC EQUIPMENT SCHEDULE									
TAG	QTY	DESCRIPTION	MAKE	MODEL	NOTES				
PV CP#	48	Photovoltaic Modules	Canadian Solar	CS6K-270P	2 - (12) Module Strings - Series Connected - Polycrystalline				
PV CM#	48	Photovoltaic Modules	Canadian Solar	CS6K-275M	2 - (12) Module Strings - Series Connected - Monocrystalline				
PV HP#	48	Photovoltaic Modules	Hanwha	Q.PLUS BFR-G4.1	2 - (12) Module Strings - Series Connected - Polycrystalline				
PV HM#	48	Photovoltaic Modules	Hanwha	Q.PEAK-G4.1	2 - (12) Module Strings - Series Connected - Monocrystalline				
DISCO 1	4	DC Disconnect	SMA	1000-US	Disconnect for SMA Inverters.				
DISCO 2	4	AC Disconnect	Eaton or Equiv.	_	AC Disconnect 600V, 30A, Non Fused, 3 Pole				
PORDIS 1	1	Pordis String Curve Tracer	Pordis	140A2	IV Curve Tracer — 8 String Local Capacity				
PORDIS 2	1	Pordis String Curve Tracer Expansion Unit	Pordis	140A2	IV Curve Tracer Expansion Unit — 8 String Capacity				
DC 1	4	4—String Boilerplate DC Monitoring Enclosure	SNL	-	SNL Designed 4-String DC Monitoring Enclosure				
(INVTR)	4	Solar Inverter	SMA	Sunny TriPower 15000TL-US	SMA 15kW Inverter (3 Phase, 480/277V connection)				

 \bigcirc \bigcirc REV # 3.0

11"x17" SCALE N.T.S. DATE 8/2/2017 DRAWN BY

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Line

Diagram

pg.

SHEET