ADAMSON RESIDENCE 5.76 kW PHOTOVOLTAIC SYSTEM

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) NOTES FOR GROUND MOUNTED SYSTEMS

- In the case of emergency, call at Work Phone #
- Stockpiles of soil shall be properly contained to minimize sediment transport from the site to streets, drainage Sediment from areas disturbed by construction shall be retained on site using structural controls to the maximun
- Appropriate BMP's for construction-related materials, wastes, spills shall be implemented to minimize transport
- om the site to streets, drainage facilities, or adjoining properties by wind or runoff.

 Runoff from equipment and vehicle washing shall be contained at construction sites unless treated to reduce
- All construction contractor and subcontractor personnel are to be made aware or the required best management
- practices and good housekeeping measures for the project site and any associated construction staging areas.

 7. At the end of each day of construction activity all construction debris and waste materials shall be collected. and properly disposed in trash or recycle bins.
- pollutants off the site. Discharges of material other than stormwater only when necessary for performance and completion of construction practices and where they do not: cause or contribute to a violation of any water quality Construction sites shall be maintained in such a condition that an anticipated storm does not carry wastes or
- scalants, glues, limes, pesticides, herbicides, wood preservatives and solvents; asbestos fibers, paint flakes or stucco fragments; fuels, oils, lubricants, and hydraulic, radiator or battery fluids; fertilizers, vehicle/equipment wash water and concrete wash water; concrete, detergent or floatable wastes; wastes from any engine/equipment 9. Potential pollutants include but are not limited to: solid or liquid chemical spills; wastes from paints, stains, standard; cause or threaten to cause pollution, contamination, or nuisance; or contain a hazardous substance in a quantity reportable under Federal Regulations 40 CFR Parts 117 and 302. steam cleaning or chemical degreasing and superchlorinated potable water line flushing.
- During construction, permittee shall dispose of such materials in a specified and controlled temporary area on site, physically separated from potential stormwater runoff, with ultimate disposal in accordance with local,

GENERAL ELECTRICAL NOTES

CODE INFORMATION

EQUIPMENT USED SHALL BE UL LISTED, UNLESS OTHERWISE NOTED.

OTHERWISE NOTED.

EQUIPMENT USED SHALL BE NEW, UNLESS

CANADIAN SOLAR MODULES SHALL BE POSITIVELY GROUNDED, GROUNDED (POSITIVE) CONDUCTORS SHALL BE UN-FUSED AND UN-BROKEN FROM THE ARRAY TO THE INVERTER DC TERMINAL.

ADEQUATE PHYSICAL WORKING SPACE AROUND THE EQUIPMENT AND SHALL COMPLY WITH NEC. EQUIPMENT SHALL BE INSTALLED PROVIDING ADEQUATE PHYSICAL WORKING SPACE AROU

COPPER CONDUCTORS SHALL BE USED AND SHALL HAVE INSULATION RATING 600V, 90°C, UNLESS

FUSED AND/OR SWITCHED.

UN-GROUNDED (NEGATIVE) CONDUCTORS SHALL BE

CONDUCTORS SHALL BE SIZED IN ACCORDANCE TO NEC. CONDUCTORS AMPACITY SHALL BE DE-RATED FOR TEMPERATURE INCREASE, CONDUIT FILL AND

- Dewatering of contaminated groundwater, or discharging contaminated soils via surface erosion is prohibited.
 Dewatering of non-contaminated groundwater requires a National Pollutant Discharge Elimination System Permit from the respective State Regional Water Quality Control Board.
 Graded areas on the permitted area perimeter must drain away from the face of slopes at the conclusion of each
- working day. Drainage is to be directed toward desilting facilities. 12. The permittee and contractor shall be responsible and shall take necessary precautions to prevent public trespass
- onto areas where impounded water creates a hazardous condition.
- The permittee and contractor shall inspect the erosion control work and insure that the work is in accordance approved plans
- 14. The permittee shall notify all general contractors, subcontractors, material suppliers, lessees, and property
- owners: that dumping of chemicals into the storm drain system or the watershed is prohibited.

 15. Equipment and workers for emergency work shall be made available at all times during the rainy season. Necessary materials shall be available on site and stockpiled at convenient locations to facilitate rapid construction of
- 6. All removable erosion protective devices shall be in place at the end of each working day when the 5-Day Rain
- to minimize sediment transport from the site to streets, drainage facilities of adjacent properties via runoff, Sediments from areas disturbed by construction shall be retained on site using an effective combination of and stockpiles of soil shall be properly
- on site to minimize transport from the site to streets, drainage facilities, or adjoining property by wind or Appropriate BMPs for construction-related materials, wastes, spills or residues shall be implemented and retained

SHEET IN DEX

ARCHITECTURAL - TITLE SHEET

CSL #936034 Exp. 7/31/2013 Classes: C7, C10, C4

1659 E 28th ST. SUITE A SIGNAL HILL, CA 90755 PH (888) 416-1415 INFORMATION:----

9

ADVANTAGE

ELECTRICAL

A1 A2

- SITE PLAN -ELEVATION

- E1 E2 E3 E4
- ELECTRICAL PLOT PLAN
 SINGLE LINE
 SYSTEM LABELS & NOTES
- MANUFACTURER CUT SHEETS

Job Reference #13-1022

PHOTOVOLTAIC SOLAR SYSTEM

ADAMSON

STRUCTURAL

 \mathbf{S} 1

- TYP. CONNECTIONS DETAILS
 STRUCTURAL CALCULATIONS

DATE: I

11/06/13

--DESCRIPTION:-

9714 Parrot Avenue Downey, CA 90240

VICINITY MAP

OCCUPANCY GROUP TYPE OF CONSTRUCTION STORIES SQ. FT. EXISTING ROOF RAFTER SIZE RAFTER SPACING O.C. RAFTER SPAN WIND SPEED EXPOSURE CATEGORY ROOFING INFORMATION R-3/U V-B Composite Shingle 2" X 6" 1,764 FT

)RAWN BY:---9714 Parrot Avenue Downey, CA 90240 TEL: (562) 291-8140 Mark ¢ Julie Adamson ___CHK.:____APV.:



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Classes: CSL# 982201 (Exp 3/31/15) C7, C10, C46

Nick Vertucci

TITLE SHEET

LOAD SIDE INTER-CONNECTION SHALL COMPLY WITH NEC

EXPOSED NON-CURRENT CARRYING METAL PARTS SHALL BE GROUNDED AS PER NEC.

SUM: MODULE WEIGHT
SUM: MOUNTS AND RAIL WEIGHT
TOTAL INSTALLATION WEIGHT
TOTAL INSTALLATION AREA
DISTRIBUTED LOAD

1058.4 LBS. 96 LBS. 1154.4 LBS. 416 FT² 2.77 LBS/FT²

HOWEVER, RECOMMENDED.

EXTERNAL DC DISCONNECT SHOWN IS OPTIONAL

CL50-DB-T, AND STAINLESS STEEL HARDWARE (BOLT, WASHERS, AND NUT). STAR WASHERS SHALL BE USED BETWEEN THE GROUNDING LUG AND THE MODULES SHALL BE GROUNDED USING GROUNDING LUG, SUCH AS ILSCO GBL-4DBT OR BURNDY

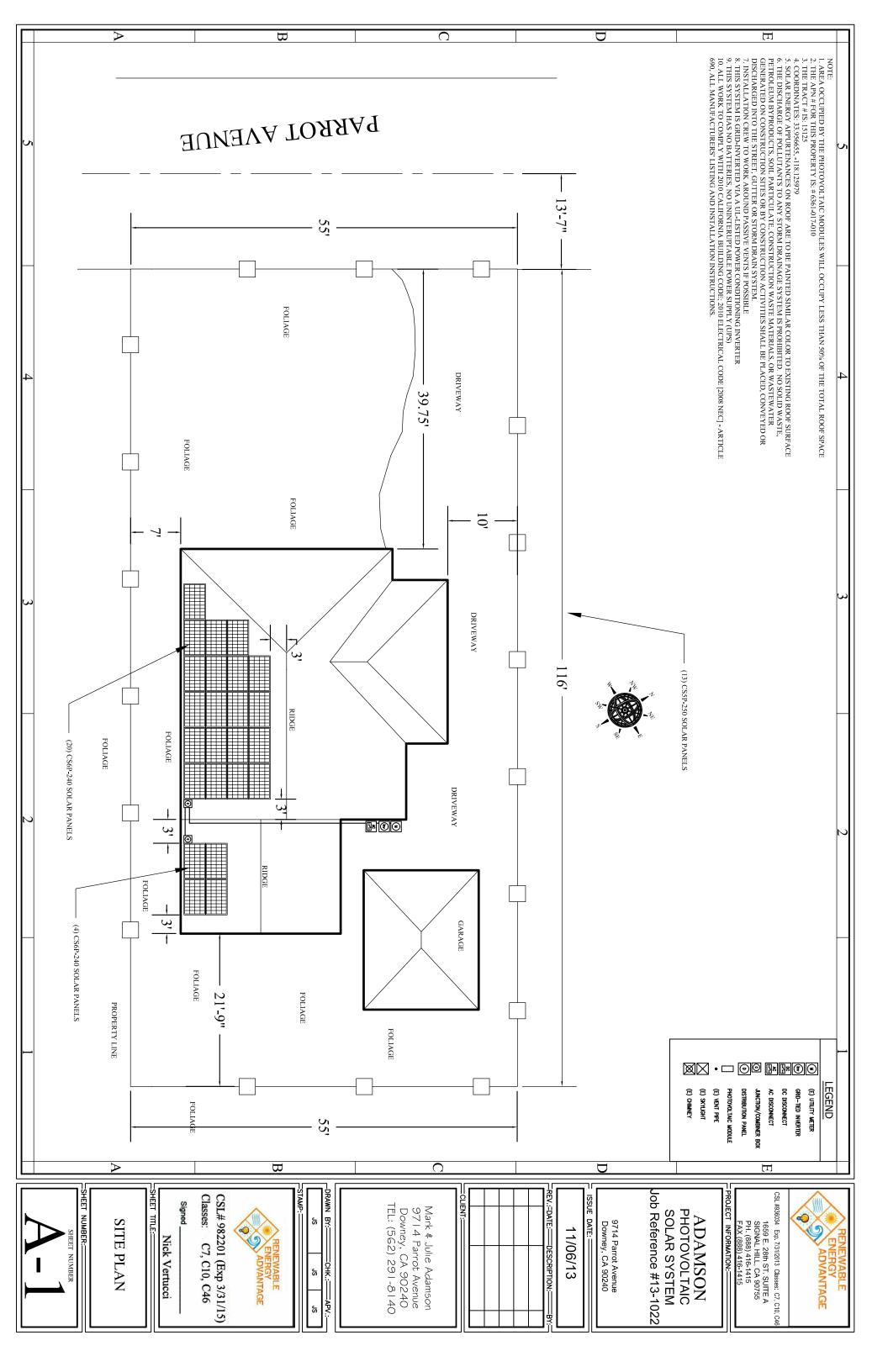
MODULE WEIGHT MODULE LENGTH MODULE WIDTH MODULE DEPTH

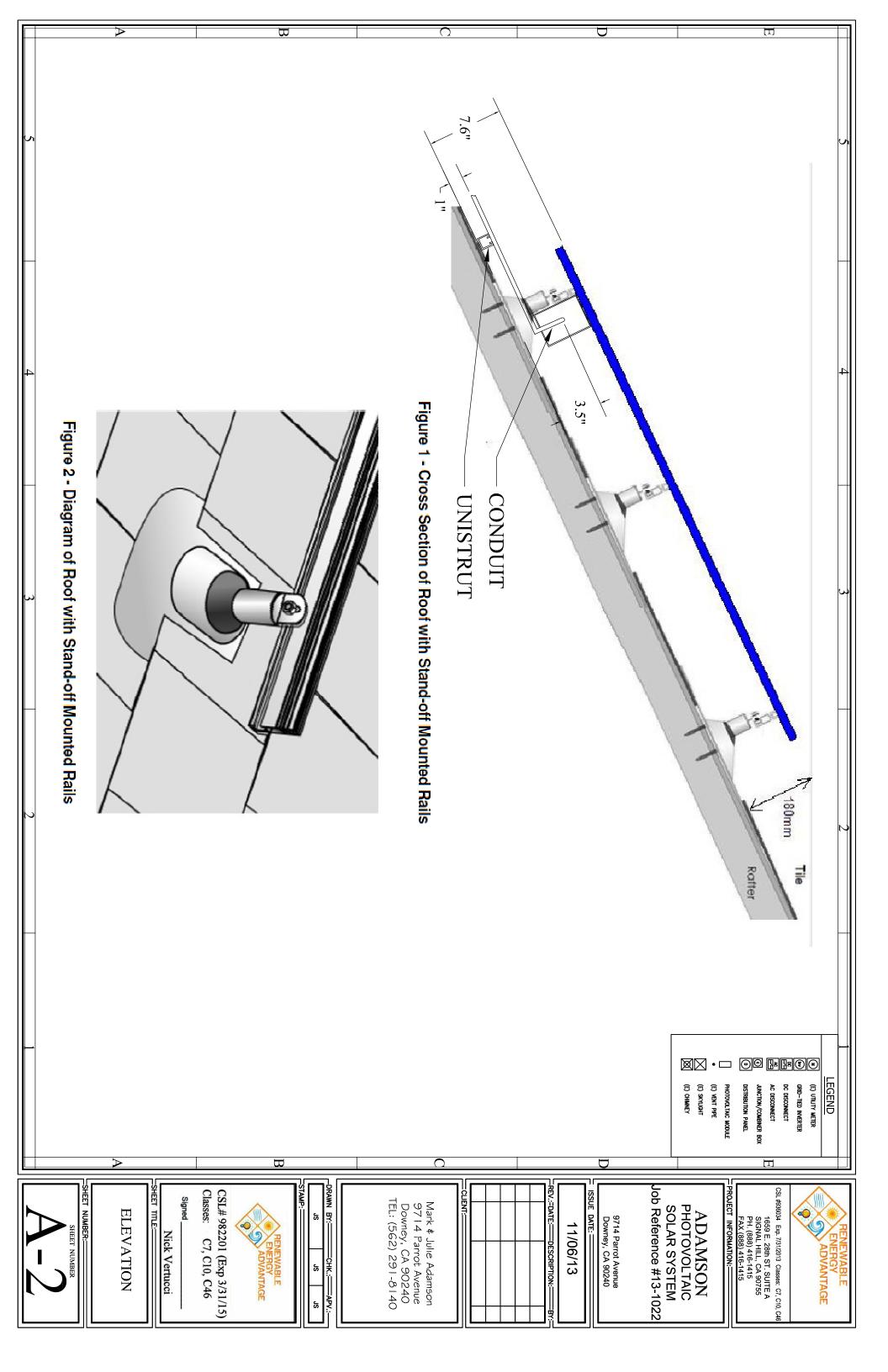
TOTAL MODULES

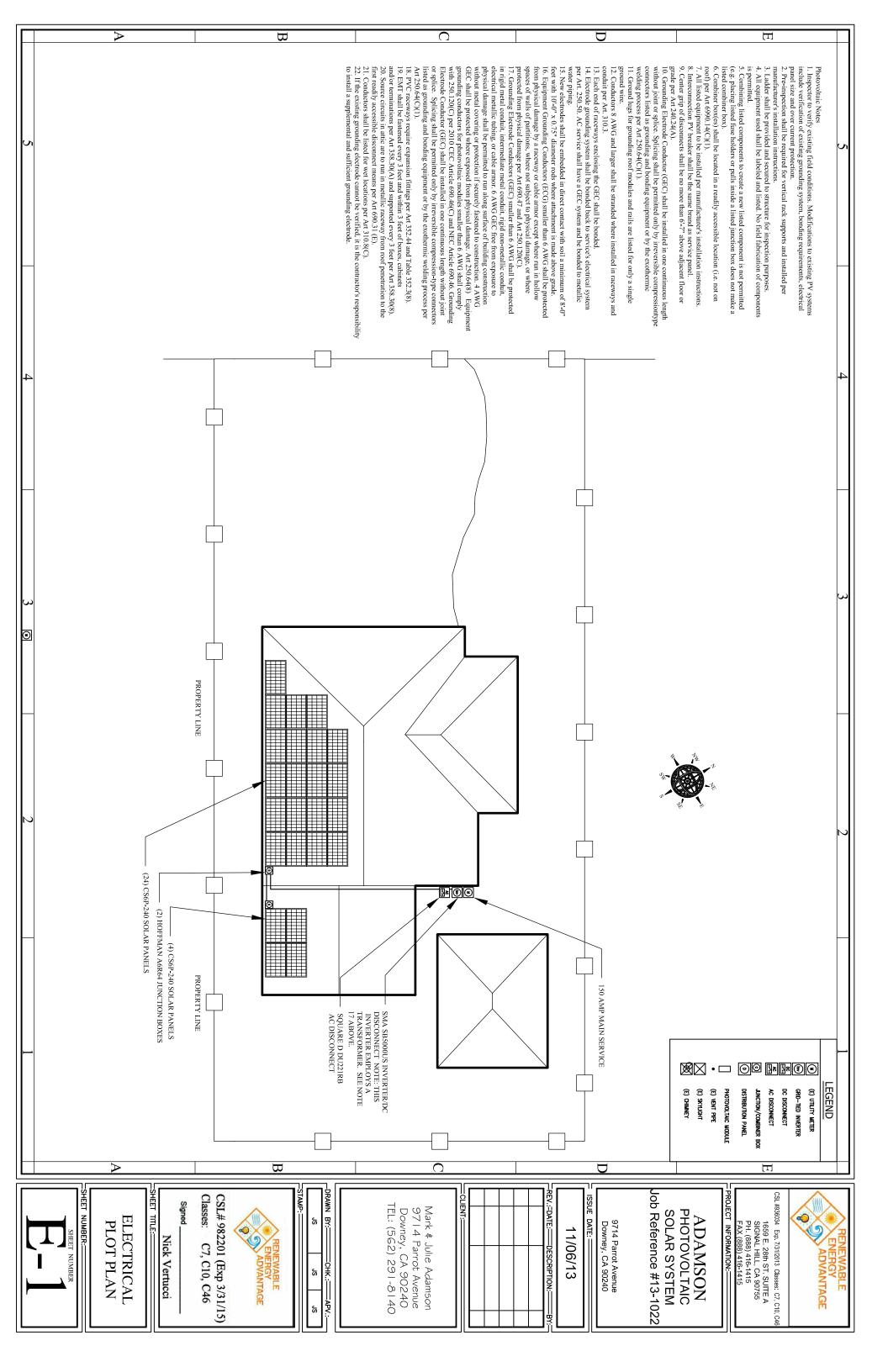
ALL CONDUCTORS, EXCEPT USE-2, SHALL BE INSTALLED IN APPROVED CONDUITS OR RACEWAY. CONDUITS SHALL BE ADEQUATELY SUPPORTED AS

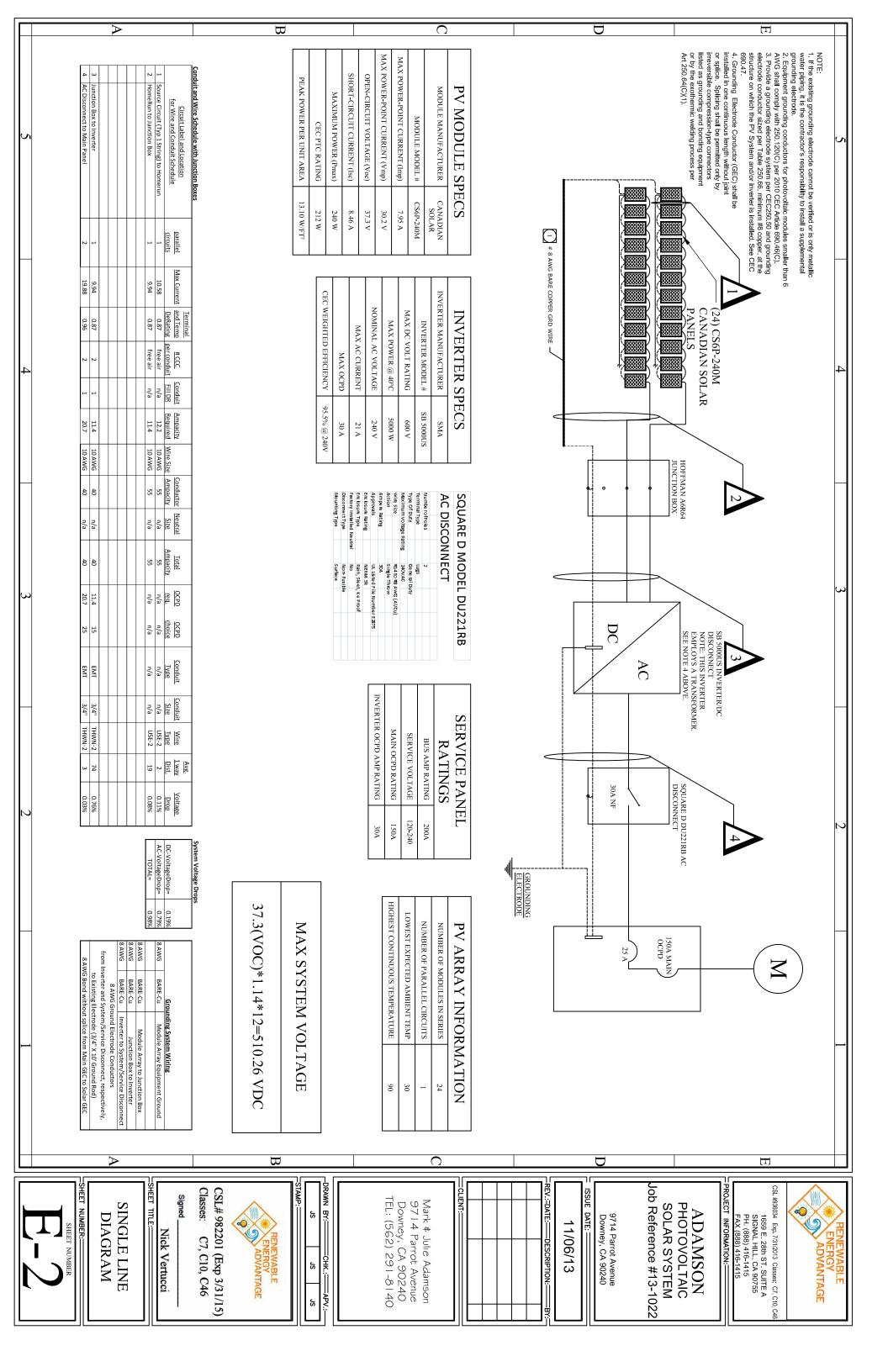
ARRAY INFORMATION

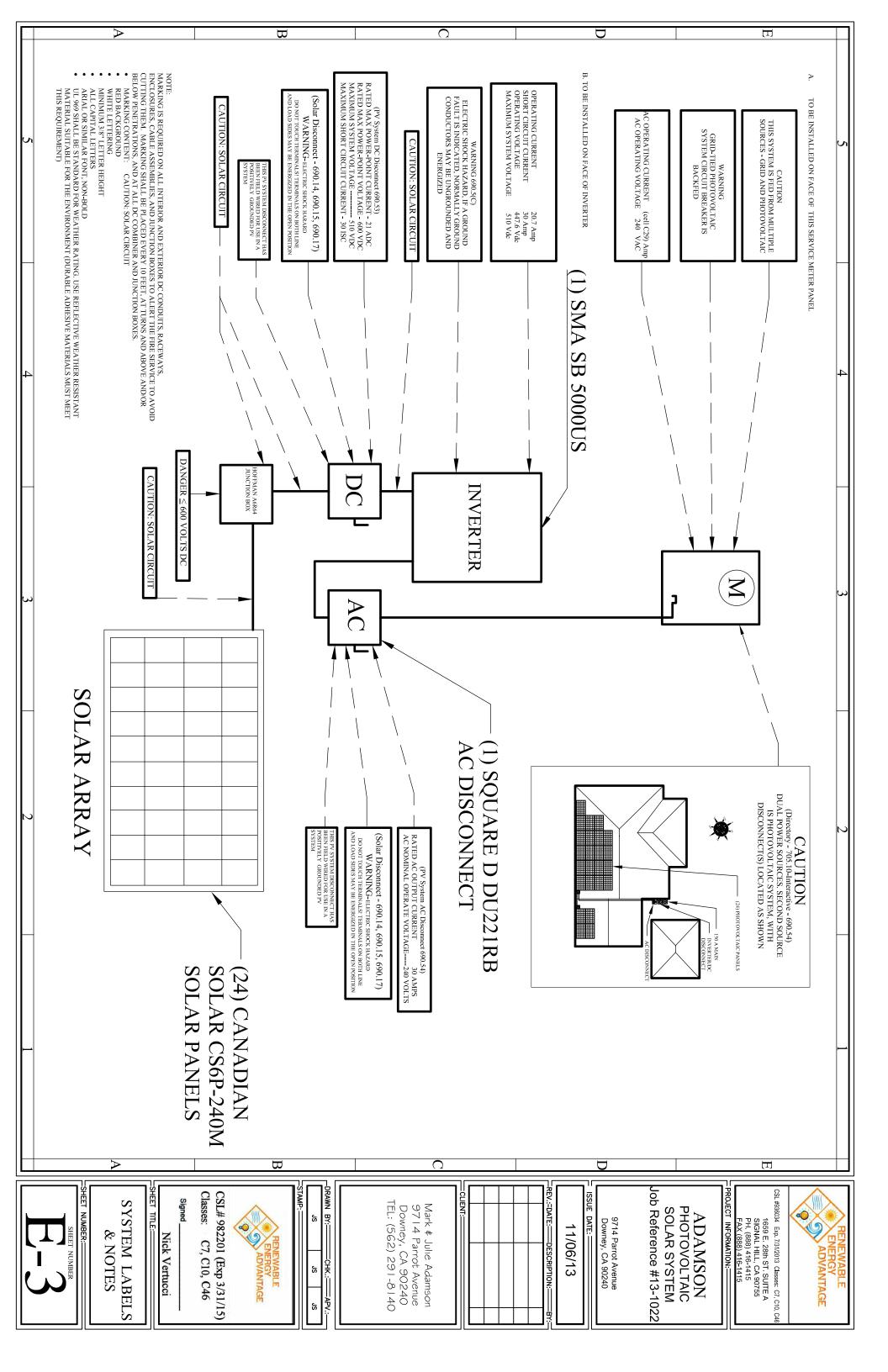
THIS PROJECT SHALL COMPLY WITH THE 2010 CBC AND 2010 CEC.













SONOLASTIC® NP1™

Product Data Sheet

DU221RBSafety Switch , 30A, Non-Fusible, 2-Pole

List Price \$177.00 USD
Availability Stock Item: This item

AC DISCONNECT

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PV mounting evolves SolarMount-I™

(Generic Unirac-Like)

SOLAR PANEL

RACKING

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NOTE OF THE SOURCE	Number of Poles Terminal Type	2-Pale Lugs
-	Terminal Type	Lugs
	:	
H	Type of Duty	General Duty
26	Maximum Voltage Rating	240VAC
77G Panerssa	wire size	#1≤ 10 #6 AV/G(ARCU) Single Throw
None	Ampere Rating	30A
Ę	Approvals	UL Listed File Number E2875
+	Enclosure Rating	NEMA 3R
-£0 to 82	Enclosure Type	Rainproof and Steet/ice proof (Incoon/Outdoor)
C20 1000m ² /L	Factory Installed Neutra	No
Capacity and the T	Disconnect Type	Non-Fusible
Lide & Performance	Mounting Type	Surface
s' avallada from your franks.	Shipping and Ordering	
	Category	00106 - Safety Switch, General Duty, 30 - 200 Amp, NEMA3R
and the	Discount Schedule	DE1A
ab per life	Article Number	785901490340
ó	Package Quantity	-
8,25	Weight	4.62 lbs.
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900	Returnability	*
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\$ 2008 Schreider Electric All rights reserved.	Generated: 02/23/2011 18:65:05		
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Schneider Belectric			

JUNCTION BOX



Cleveland, DH 44135
Clevel

ALUMINUM BASE NO-CALK® ROOF FLASHINGS

150 9001 Sestem

CSL #936034 Exp. 7/31/2013 Classes: C7, C10, C46

1659 E. 28th ST. SUITE A SIGNAL HILL, CA 90755 PH. (888) 416-1415

ENERGY ADVANTAGE

ROOF

FLASHING

ngineering Specification: Catey Aluminum ommercial and residential applications where a lumbing vent pipe is recuired.

Base No-Calk Roof Flashings can be used in watertight seal for roof penetrations around the

PROJECT INFORMATION:

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JAPHO Listed	12849 12852 12865	12959 12958 12836	12936 12936 12946	Product No. 12920 12923	
853	2" Large Base Aluminum No-Calk Roof Flashing 3" Large Base Aluminum No-Calk Roof Flashing 4" Large Base Aluminum No-Calk Roof Flashing	4" Alluminum Vo-Calk Roof Flashing 4" Alluminum Vo-Calk Roof Flashing 1-¼" - 1-½" Large Base Aluminum No-Calk Roof Flashinn	2" Aluminum No-Calk Roof Flashing 2" Aluminum No-Calk Roof Flashing 3" Aluminum No-Calk Roof Flashing 3" Aluminum No-Calk Roof Flashing		Aluminum Roof Frashing Aluminum Roof Frashing Made o' stamped aluminum Noof Frading sealing coller Approved for Type 8 insts Not for indemopped or by Do not use paint or petro



Job Reference #13-1022

SOLAR SYSTEM **PHOTOVOLTAIC**

ADAMSON

slides over DWV pipe for pitch to 40° num

ISSUE DATE:

11/06/13

DESCRIPTION:

9714 Parrot Avenue Downey, CA 90240

tallations Juilt-up roofs Joeum based products on rubber collars

7/2008

Mark # Julie Adamson 97 | 4 Parrot Avenue Downey, CA 90240 TEL: (562) 29 | -8 | 40

D-2 Visit

© 2010 Percair Rechald Products Spec-D0286 D

SB5000US INVERTER/DC DISCONNECT



Taster, Flexible Attachment Installs in half the time of competitive products

dom and flexibility to ommodate majority of P

"Click and Secure" solutions Spanish/barrel tile solution

SUNNY BOY 5000US/6000US/7000US / 8000US The best in their class

(CBC), based on the 2006 International Building Code, by Intern

Online specification tool and training videos

-UNIRAC

ATTACHMENT OPTIONS

Our US satist insertion unitize our proven inchinology and and designed specifically to meet IEES/1347 requirements. Sumy Boy 26000 JS, Sumy Boy 7000 US and Sumy Boy 2000 US are a lot compacible with the Sumy Towar Increased efficiency means believe performance and alterior poylocids periods. All boy models are field-configurable for positive ground systems moding than more variodis that even. Throughout his world. Sumy Boy is the banch not the FV inverter performance and reliability.

Tel. +1 916 625 0870 Toll Free +1 888 4 5MA USA www.5MA-America.com

Technical Data

SMA

	SB.5000US	SB 6000US	SB 7000US	SB BOCOUS
nded Maximum PV Power (Module STC)	6250W	7500 W	8750 W	M-002CI
num Voltage	V000	400A	A009	A 009
e: Tracking Vallage	250-480 V	250-48CV	250-480 V	300-48CV
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of Tused String Inputs	3 limerted, 4 x 20 A (DC disconnect)	3 (Irverter), 4 x 20 A (BC disconnec)	3 limered, 4 x 20 A (DC discorred)	3 (inverter), 4 x 20 A (DC disconnect)
ortoge	300 V	A008	300 V	365V
nal Power	W3006	W000%	7000W	8C00'W
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nd Veltage Ronge	183 - 229 V © 208 V 211 - 264 V © 240 V 244 - 305 V 9 277 V	183 - 229 V & 208 V 211 - 264 V @ 240 V 244 - 305 V © 277 V	183 - 229 V @ 208 V 211 - 264 V & 240 V 244 - 205 V @ 277 V	N/A@203Y 2/1 - 264 V@240 V 244 - 305 V@277 V
enzy nemiral/range	60 Hz / 59.3 - 60.5 Hz	60Hz/593-60.5Hz	60 Hz / 59.3 - 60.5 Hz	60 Hz / 59.3 - 60.5 Hz
tar (Nominal)	0.99	0,999	099	0,99
ter Efficiency	96.6%	97.0%	971%	96.5%
ghted Efficiency	95.5%@208V 95.5%@240V 95.5%@277V	95.5% # 208 V 95.5% # 240 V 96.5% # 277 V	95.5%@208V 96.0%@240V 96.0%@277V	N/A © 203 V 95.0% © 220 V 95.0% © 227 V
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RENEWABLE

)RAWN BY:---

___CHK.:____APV.: ស

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ADVANTAGE

Classes: CSL# 982201 (Exp 3/31/15) Nick Vertucci C7, C10, C46

MANUFACTURER **CUT SHEETS**

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SMA America, LLC

