RESOLUTION NO: 16-056

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF EL PASO DE ROBLES TO APPROVE CONDITIONAL USE PERMIT 16-004 CENTENNIAL PARK 600 Nickerson Drive (APN: 009-561-051)

WHEREAS, Table 21.16.200 of the Zoning Ordinance of the City of El Paso de Robles requires a Conditional Use Permit (CUP) for public utilities facilities in the R-1 zone; and

WHEREAS, the applicant, SunEdison LLC, has filed a Conditional Use Permit (CUP) application proposing to install a photovoltaic system canopy structure within the existing parking lot of Centennial Park located at 600 Nickerson Drive; and

WHEREAS, this application is Categorically Exempt from environmental review under the State's Guidelines to Implement the California Environmental Quality Act (CEQA) per Section 21080.35 of the Public Resources Code; and

WHEREAS, a duly noticed public hearing was conducted by the Planning Commission on December 13, 2016, to consider the facts as presented in the staff report prepared for this project, and to accept public testimony regarding this conditional use permit request; and

WHEREAS, based upon the facts and analysis presented in the staff report and public testimony received and subject to the conditions of approval listed below, the Planning Commission finds that the establishment, maintenance and operation for the requested use and building would be consistent with the General Plan and not be detrimental to the health, safety, morals, comfort, convenience and general welfare of the persons residing or working in the neighborhood of such proposed use, or be injurious or detrimental to property and improvements in the neighborhood or to the general welfare of the City.

NOW, THEREFORE, BE IT RESOLVED, that the Planning Commission of the City of El Paso de Robles does hereby approve Conditional Use Permit 16-004 subject to the following:

Section 1 - Findings: based upon the facts and analysis presented in the staff report, public testimony received and subject to the conditions listed below, the Planning Commission makes the following findings:

1. The proposed use is consistent with the General Plan and Zoning Ordinance; and

2. The proposed use satisfies the applicable provisions of the Zoning Ordinance; and

3. The establishment, and subsequent operation or conduct of the use will not, because of the circumstances and conditions applied in the particular case, be detrimental to the health, safety or welfare of the general public or persons residing or working in the neighborhood of the use, or be detrimental or injurious to property or improvements in the vicinity of the use; and

4. That the proposed project or use will not be inconsistent with the character of the immediate neighborhood or contrary to its orderly development; and

5. That the proposed use or project will not generate a volume of traffic beyond the safe capacity of all roads providing access to the project, either existing or to be improved in conjunction with the project, or beyond the normal traffic volume of the surrounding neighborhood; and

Section 2- Environmental Determination: This projects qualifies for as categorically Exempt from environmental review under the State's Guidelines to Implement the California Environmental Quality Act (CEQA) per Section 21080.35 of the Public Resources Code.

Section 3 - Approval: Conditional Use Permit 16-004 is approved subject to the following:

1. This Conditional Use Permit (CUP) authorizes the installation of a photovoltaic system canopy structure within the existing parking lot of Centennial Park located at 600 Nickerson Drive as shown in Exhibit B (Development Plans).

2. The project shall be constructed so as to substantially conform with the following listed exhibits established by this resolution:

EXHIBIT	DESCRIPTION
A	Project Conditions
B	Development Plans

PASSED AND ADOPTED THIS 13th day of DECEMBER, 2016 by the following Roll Call Vote:

AYES: Commissioners Barth, Burgett, Brennan, Donaldson, Agredano, Davis and Chairman Rollins

NOES:

ABSENT:

ABSTAIN:

BOB ROLLINS, CHAIRMAN

ATTEST:

WARREN FRACE, SECRETARY OF THE PLANNING COMMISSION

Exhibit A
Exhibit B

Exhibit A

Conditions of Approval – CUP 16-004

Planning Division Conditions:

1. The project shall be constructed so as to substantially conform with Exhibit B (Development Plans).

2. Prior to issuance of the building permit, the applicant shall submit for review and approval the selected color sample, as determined by the Community Development Department, for the steel component of the canopy structure.

3. All lighting shall be downward directed and shielded to prevent offsite glare in conformance with Section 21.21.040 of the City's Zoning Ordinance.

4. Upon completion of the construction of the project, the public property and any improvements thereon shall be restored to a good and safe condition.

5. Any condition imposed by the Planning Commission in granting this Conditional Use Permit may be modified or eliminated, or new conditions may be added, provided that the Planning Commission shall first conduct a public hearing in the same manner as required for the granting of the original permit. No such modification shall be made unless the Commission finds that such modification is necessary to protect the public interest and/or neighboring properties, or, in the case of deletion of an existing condition, that such action is necessary to permit reasonable operation and use under the Conditional Use Permit.

Emergency Services Conditions:

6. All hazardous electrical transmission lines must be labeled – "CAUTION – Electrical Hazard".

7. Warning labels shall appear on the utility interactive inverter or be applied by the installer near the ground fault indicator at a visible location stating the following:
    a. Warning Electrical Shock Hazard

8. Shut down and/or isolation procedures will be clearly displayed on the main electrical service panel exterior shunt trip device designed to terminate power to all electrical service (solar and domestic) when the main service disconnect is in the off position.

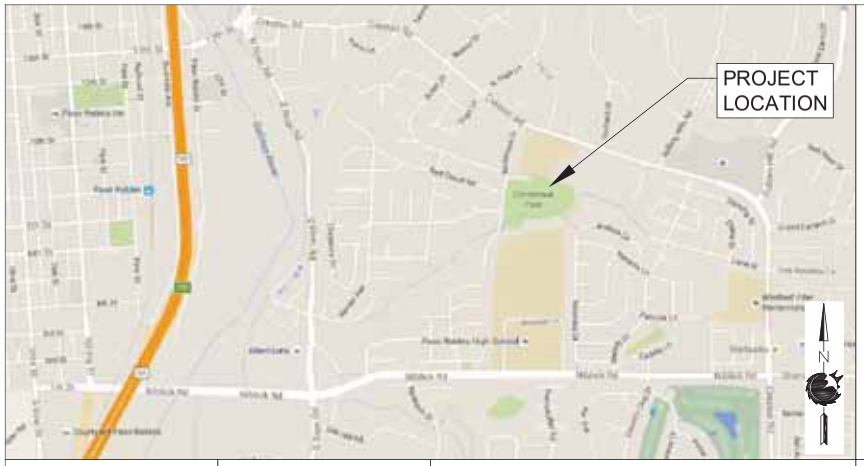
9. Main electrical service panel shall be labeled – "Solar Power Enhanced"

Exhibit B - Development Plans

CITY OF PASO ROBLES
CENTENIAL PARK

600 NICKERSON DR. PASO ROBLES, CA

30% DESIGN



STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS AND ENGINEERS WHO UTILIZE PLANS PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS.

THESE DRAWINGS OR SHEETS LISTED BELOW:
- ACCESSIBILITY DRAWINGS: [insert firm name]
- ELECTRICAL DRAWINGS: [insert firm name]

THIS DRAWING, PAGE OF SPECIFICATIONS / CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND / OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THE STATE. IS HAS BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF THE RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-366, 4-344" OF TITLE 24, PART 1 (TITLE 24, PART 1, SECTION 4-317 B).

GENERAL

Sheet Number	Rev.	Sheet Title
G-001		TITLE SHEET
G-002		GENERAL NOTES

ARCHITECTURAL

Sheet Number	Rev	Sheet Title
A-101		MASTER SITE PLAN
A-201		ARCHITECTURAL RENDERINGS
A-501		ACCESSIBILITY DETAILS

ELECTRICAL

Sheet Number	Rev	Sheet Title
E-001		ELECTRICAL NOTES
E-002		MEDIUM VOLTAGE ELECTRICAL NOTES
E-101		ELECTRICAL SITE PLAN
E-201		SINGLE-LINE DIAGRAM
E-501		ELECTRICAL CANOPY DETAILS
E-502		ELECTRICAL CANOPY DETAILS
E-506		EQUIPMENT LABELS AND DETAILS
E-801		SPECIFICATION SHEET

PROJECT DEVELOPER

SUNEDISON
600 CLIPPER DRIVE
BELMONT, CA, 94002
(650) 453-5600

PROJECT ENGINEER:
ANTHONY FEREIRA
PH: 650-278-6593

SITE CONTACT

SUNEDISON
600 CLIPPER DRIVE
BELMONT, CA, 94002
(650) 453-5600

SCOPE OF WORK

THIS DESIGN PACKAGE PROVIDES DRAWINGS FOR THE INSTALLATION OF A 126KW DC RATED PHOTOVOLTAIC SYSTEM AT 600 NICKERSON DR, PASO ROBLES, CALIFORNIA CA 93446.
ENVIRONMENTAL PLANS ARE NOT PART OF THE SCOPE OF THIS PLAN SET.

APPLICABLE CODES AND STANDARDS

- CALIFORNIA BUILDING CODE (CBC) 2013 EDITION
- CALIFORNIA ENERGY CODE 2013
- CALIFORNIA FIRE CODE 2013 EDITION
- CALIFORNIA ENERGY CODE 2013 EDITION
- CALIFORNIA MECHANICAL CODE 2013 EDITION
- CALIFORNIA PLUMBING CODE 2013 EDITION
- CALIFORNIA ELECTRICAL CODE 2013 EDITION
- CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R
- (2012 INTERNATIONAL FIRE CODE AND 2010 CALIFORNIA AMENDMENTS)
- 2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24, C.C.R.
- TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 13 AUTOMATIC SPRINKLERS SYSTEM 2010 EDITION
NFPA 14 STANDPIPE SYSTEM 2007 EDITION
NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2002 EDITION
NFPA 17A WET CHEMICAL SYSTEMS 2002 EDITION
NFPA 20 STATIONARY PUMPS 2007 EDITION
NFPA 24 PRIVATE FIRE MAINS 2010 EDITION
NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2008 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS

1. THIS PROJECT SHOULD COMPLY WITH THE 2013 EDITION OF THE CALIFORNIA BUILDING CODE (TITLE 24) WHICH ADOPTS THE 2012 IBC
2. CALIFORNIA HEALTH AND SAFETY CODE
3. 2012 CFC ARTICLES INCLUDING BUT NOT LIMITED TO: ARTICLES 74,76,79 AND 80, 2010 CBC CHAPTERS 3,5, AND 12, NFPA 45

STATE REVIEW AND APPROVAL OF PROJECT CODE COMPLIANCE WILL BE DETERMINED BY: DIVISION OF STATE ARCHITECT

ARCHITECT

[company name]
[address]
[city] [state] [zip]
[phone]

LICENSED ARCHITECT:
CA REG#
EXPIRATION: XX/XX/XXXX

GEOTECHNICAL ENGINEER

GLENN S.FRASER
GEOTEK, INC.
710 EAST PARKRIDGE AVENUE, #105
CORONA, CA 92879
PHONE: (951) 710-1167

LIC. # CEG 2381
EXP: 9/30/17

PROJECT DESCRIPTION

SYSTEM SIZE (DC)	DC STC 126.630 kW
SYSTEM SIZE (AC) (CEC)	AC CEC 113,747 kW
INVERTER	(2) SUNGROW SG60KU-M PV INVERERS
PV MODULE	(378) SUNEDISON SE-F335 EZD-3Y MONO-CRISTALLINE PV MODULE
TRANSFORMER	N/A
PROJECT AREA	8 300 SQ.F.
LATITUDE	35.6224° N, -120,6707° W
AZIMUTH	188°
TILT	7°

STRUCTURAL ENGINEER

[company name]
[address]
[city] [state] [zip]
[phone]

PROJECT ENGINEER:
CA PE REG# C
EXPIRATION: xx/xx/xxxx

ELECTRICAL ENGINEER

[company name]
[address]
[city] [state] [zip]
[phone]

PROJECT ENGINEER:
CA PE REG# C
EXPIRATION: xx/xx/xxxx

PROJECT MGR

MEREDITH LOUDEN
SUNEDISON
44 MONTGOMERY STREET # 2200
SAN FRANCISCO, CA 94104
PHONE: (415) 215-4591

CONTRACTOR

[company name]
[address]
[city] [state] [zip]
[phone]

CONTRACTOR'S LICENSE:

GENERAL NOTE

ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS.

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVAL BY DIVISION OF THE STATE ARCHITECT (DSA) AS REQURED BY SECTION 4-338, PART 1, TITLE 24, CCR.

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINOUS INSPECTION OF WORK, DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR: CLASS 2.

ADDITIONAL DOCUMENTS

- SUNGROW SG60KU-M INVERTER INSTALLATION MANUAL
- SUNEDISON PV MODULE INSTALLATION MANUAL
- STRUCTURAL CALCULATIONS
- GEOTECH REPORT

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STAMP:

CITY OF PASO ROBLES
CENTENIAL PARK
600 NICKERSON DR.
PASO ROBLES, CA 93446

PROJECT NUMBER:
CA-15-1043

SHEET TITLE:
TITLE SHEET

SHEET SIZE:
ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

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NO.	REVISION	DATE	INIT.
1	MODULE	10-14-16	DRM
2	CITY COMMENTS	11-09-16	DRM

DSA IDENTIFICATION STAMP:

DATE:	22-06-2016
DRAWN BY:	JW
ENGINEER:	AF
APPROVED BY:	[XXX]

PROJECT PHASE:
INITIAL DESIGN

SCALE:
[scale]

SHEET NO.:
G-001

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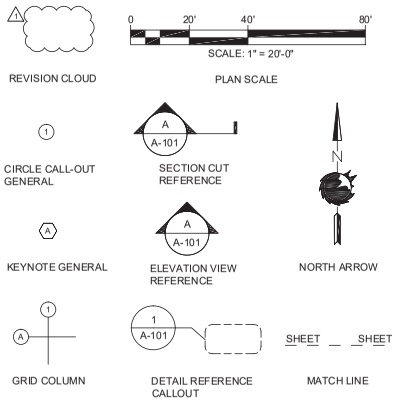
ABBREVIATIONS

#	NUMBER	INV	INVERTER
Ø	DIAMETER	ISC	SHORT CIRCUIT CURRENT
°	DEGREES	JB	JUNCTION BOX
±	PLUS OR MINUS	kW	KILOWATTS
(-)	NEGATIVE CHARGE	LOC	LOCATION
(+)	POSITIVE CHARGE	MAX	MAXIMUM
(5)	TOTAL QUANTITY	MECH	MECHANICAL
(D)	DEMOLISH	MIC	MICROPHONE
(E)	EXISTING	MIN	MINIMUM
(N)	NEW	MODL	MODULE
(P)	PROPOSED	MTR	METER
@	AT	NEC	NATIONAL ELECTRIC CODE
AC	ALTERNATING CURRENT	NEG	NEGATIVE
ADD	ADDITIONAL	N-S	NORTH - SOUTH
ADJ	ADJACENT	OBS	OBSTRUCTION
AG	ABOVE GROUND	OC	ON CENTER
AHJ	AUTHORITY HAVING JURISDICTION	PH, ϕ	PHASE
AIC	AMPERE INTERRUPTING CURRENT	PL	PROPERTY LINE
AL	ALUMINUM	PLT, ℙ	PLATE
APPROX	APPROXIMATE	PLYWd	PLYWOOD
ARCH	ARCHITECTURAL	Pmax	PEAK POWER
ASSY	ASSEMBLY	POCC	POINT OF COMMON COUPLING
ATS	AUTOMATIC TRANSFER SWITCH	POI	POINT OF INTERCONNECTION
AWG	AMERICAN WIRE GAUGE	POS	POSITIVE
BC	BARE COPPER	PSI	POUND PER SQUARE INCH
BLDG	BUILDING	PT	PRESSURE TREATED
BLK	BLOCKING	PV	PHOTOVOLTAIC
CANT	CANTILEVER	QTY	QUANTITY
CB	COMBINER BOX	RCB	RECOMBINER BOX
CMU	CONCRETE MASONRY UNIT	REQ	REQUIRED
COMM	COMMUNICATION	REV	REVISION
CONC	CONCRETE	SAD	SEE ARCHITECTURAL DRAWINGS
CU	COPPER	SIM	SIMILAR
DBL	DOUBLE	SL	SINGLE LINE
DC	DIRECT CURRENT	SSD	SEE STRUCTURAL DRAWINGS
DET	DETAIL	STL	STEEL
DIAG	DIAGONAL	STPLN	SITE PLAN
DIA	DIAMETER	STRUCT	STRUCTURAL
DWG	DRAWING	SYM	SYMMETRICAL
EA	EACH	TEMP	TEMPERATURE
ELEC	ELECTRICAL	TS	TUBE STEEL
ELEV	ELEVATION	TYP	TYPICAL
EMT	ELECTRICAL METAL TUBING	UG	UNDERGROUND
EPOX	EPOXY	UNO	UNLESS NOTED OTHERWISE
EQ	EQUAL	V	VOLTS
EQUIP	EQUIPMENT	VD	VOLTAGE DROP
E-W	EAST WEST	VIF	VERIFY IN FIELD
FF	FINISH FLOOR	VERT	VERTICAL
FLEX	FLEXIBLE	Vmpp	MAXIMUM POWER POINT VOLTAGE
GRND	GROUND	Voc	OPEN CIRCUIT VOLTAGE
GRND'g	GROUNDING	VP	VAPOR PROOF
HORIZ	HORIZONTAL	W	WATTS, WIRE
HVAC	HEATING VENT AND AIR CONDITIONING UNIT	WP	WEATHERPROOF
		WD	WOOD
Imp	MAXIMUM POWER POINT CURRENT	XFMR	TRANSFORMER
INSUL	INSULATION		

GENERAL PLAN SYMBOLS



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2	CITY COMMENTS	11-09-16	DRM

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ENGINEER:	AF
APPROVED BY:	[XXX]

PROJECT PHASE:
INITIAL DESIGN

SCALE:
[scale]

SHEET NO.:
G-002

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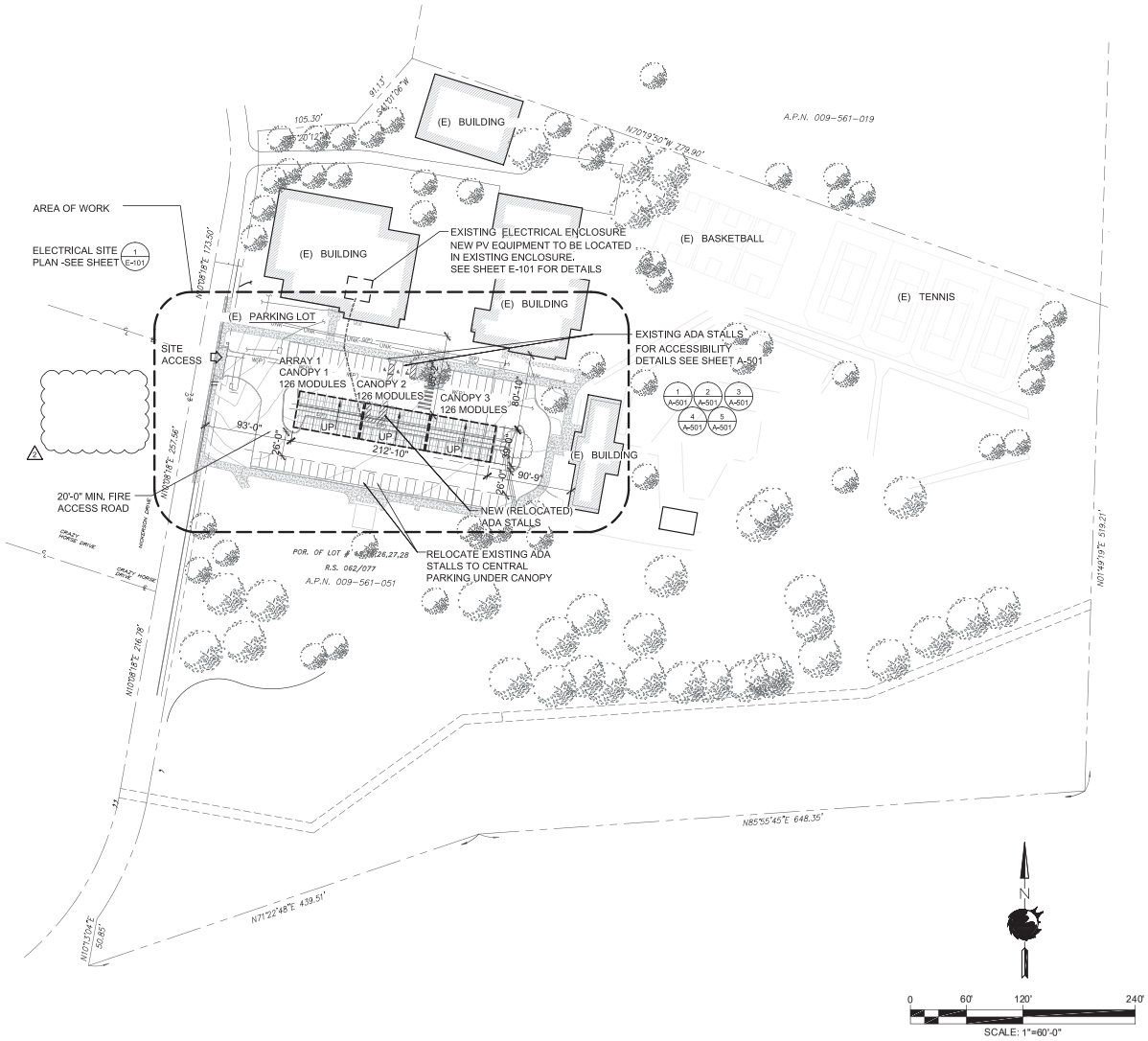
Exhibit B - Development Plans



SHEET NOTES

1. ALL BOUNDARY AND EASEMENT INFORMATION SHOWN IS FOR GRAPHIC PURPOSES ONLY.
2. ARRAY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY; REFER TO MANUFACTURER'S DRAWINGS FOR ARRAY DIMENSIONS.
3. EXISTING AND NEW TRENCH PATHS ARE DIAGRAMMATIC. USE LINE LOCATOR PRIOR TO TRENCHING.
4. ALL PAVING AND P.O.T. SHALL BE COMPARABLE TO A MEDIUM BROOM FINISH FOR SLOPES <6% AND HEAVY BROOM FINISH FOR SLOPES >6% (TYPICAL). 2013 CBC SEC.11B-403.2.
5. GRATINGS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY IN THE P.O.T., GRID/OPENINGS IN GRATINGS SHALL BE LIMITED TO 1/2" MAXIMUM IN THE DIRECTION OF TRAFFIC FLOW. 2013 CBC, SEC 11B-302.3
6. PATH OF TRAVEL LABELED AS EXISTING DOES NOT NEED TO BE VERIFIED BY THE I.O.R. OR STRUCTURAL ENGINEER. PATH OF TRAVEL LABELED AS NEW SHALL BE VERIFIED BY THE I.O.R. AND THE STRUCTURAL ENGINEER.

LEGEND

- PV MODULE
- PROPERTY LINE
- (E) FENCE LINE
- SETBACK LINE
- (E) EASEMENT
- (E) RIGHT-OF-WAY
- (N) TRENCH/CONDUIT
- (E) TREE
- CARPORT COLUMN
- POINT OF INTERCONNECTION (POCC)
- STAGING AREA
- (N) PATH OF TRAVEL (P.O.T.)

BUILDING DATA:

CONSTRUCTION TYPE:
II B (TWO B) STEEL FRAMED

OCCUPANCY:
S-2 OPEN PARKING GARAGE
PER TABLE 503 REFERENCE TABLE 406.3.5
TYPE IIB CONSTRUCTION: 26,000 MAX SQUARE FEET

ARRAY "A1": 8,300 SQ.FT. < 26,000 SQ.FT.
TOLTAL AREA: 8,300 SQ.FT. 2

MATERIALS AND FINISHES:

1-CANOPY STEEL COLUMS - FACTORY FINISH OR PAINT COLOR SELECTED PER CITY REQUIREMENTS

2- CANOPY COLUMNS BOLLARD - CONCRETE BROOM FINISH

3- BEAMS/PURLIN - FACTORY FINISH. PAINT COLOR PER CITY REQUIREMENT

4 - SOLAR MATERIALS - FACTORY FINISH

5 - EQUIPMENT/INVERTERS - FACTORY FINISH

PARKING LOT SUMMARY

	TOTAL	REGULAR	ACCESSIBLE REQUIRED	ACCESSIBLE PROVIDED	ACCESSIBLE VAN REQUIRED (INCLUDED IN ACCESSIBLE REQUIRED COUNT)	ACCESSIBLE VAN PROVIDED (INCLUDED IN ACCESSIBLE PROVIDED COUNT)
PARKING SPACES	105	100	5	6	1	1
COVERED SPACES	45	43	2	3	N/A	1
% OF COVERAGE	43%	43%	40%	50%	N/A	1

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CITY OF PASO ROBLES

CENTENIAL PARK
600 NICKERSON DR.
PASO ROBLES, CA 93446

PROJECT NUMBER: CA-15-1043

SHEET TITLE: MASTER SITE PLAN

SHEET SIZE: ARCH "D" 24" X 36" (610 x 914)

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NO.	REVISION	DATE	INIT.
1	MODULE	10-14-16	DRM
2	CITY COMMENTS	11-09-16	DRM

DSA IDENTIFICATION STAMP:

DATE:	22-06-2016
DRAWN BY:	JW
ENGINEER:	AF
APPROVED BY:	[XXX]

PROJECT PHASE: INITIAL DESIGN

SCALE: 1"=60'-0"

SHEET NO.: A-101

c:\Users\dmeyer\Box Sync\dg commercial internal portal\operations\Projects\city of paso robles\ca-15-1043 centennial park\100 ACAD\ca-15-1043 centennial park\2.0 Architectural\A-101 MASTER SITE PLAN.dwg
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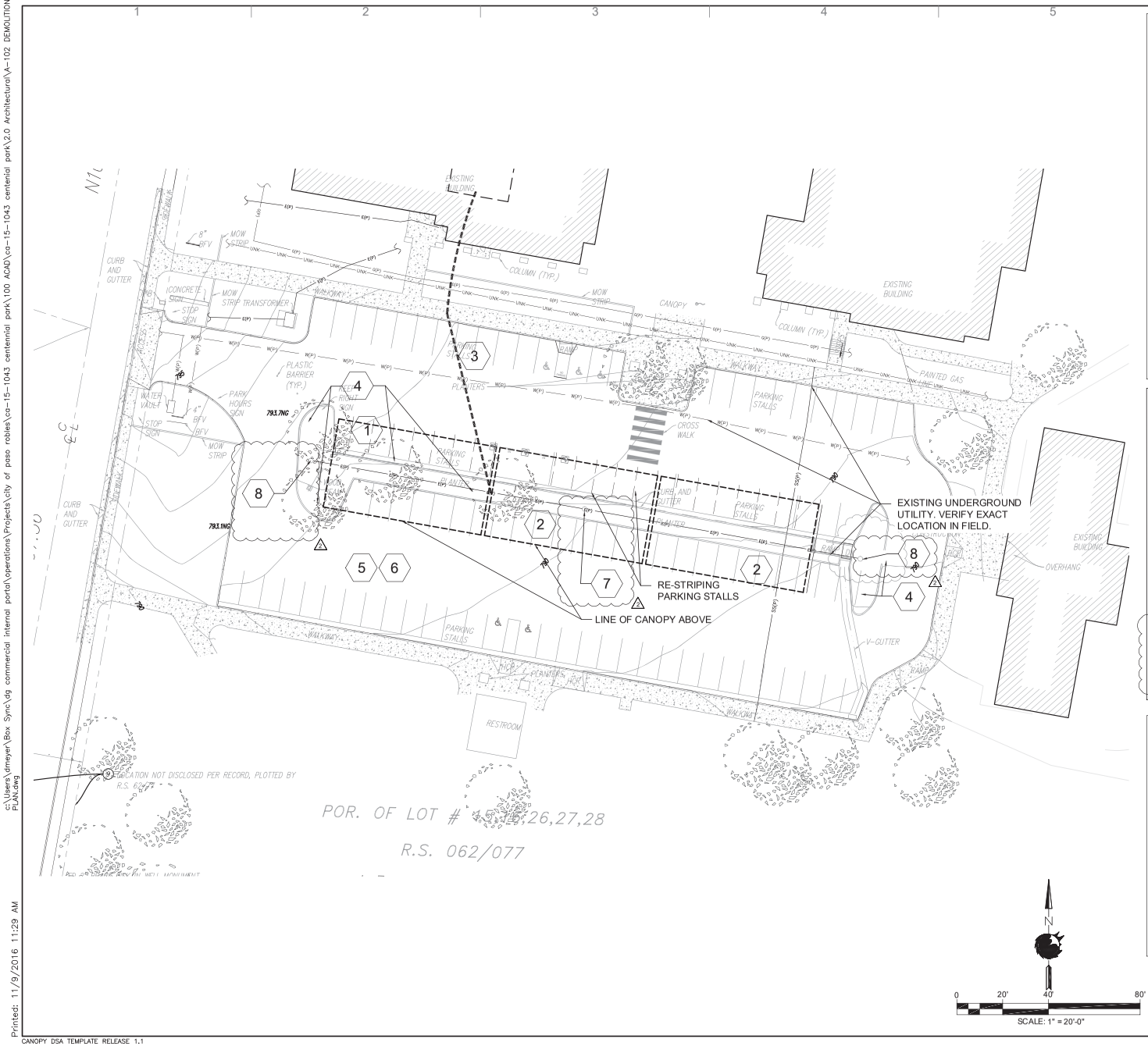
Exhibit B - Development Plans



LEGEND

- ARRAY
- DEMO STRUCTURE
- CLEAR & GRUB AREA
- FENCE LINE
- PROPERTY LINE
- NEW TRENCH LINE
- (E) TREE
- UNDERGROUND WATER
- FIBER COMUNICATION
- STORM DRAIN
- SANITARY SEWER
- GAS LINE
- UNDERGROUND ELECTRICAL
- NEW CANOPY COLUMNS LOCATION

KEY NOTES

1. EXCAVATE FOR NEW COLUMN FOOTING AT THIS LOCATION, DEMOLISH EXISTING CURB AND GUTTER 2'-0" ON EITHER SIDE OF COLUMN LOCATION.
2. EXCAVATE FOR NEW COLUMN FOOTING, TYP.
3. LINE OF NEW ELECTRICAL BORE
4. ALL TREES WITHIN THE CANOPY AREA TO BE REMOVED (7 TREES TOTAL). EXISTING PLANTER SOIL AND GRASS TO REMAIN.
5. CLEARING SHALL INCLUDE THE REMOVAL OF ALL ROCKS OR BOULDERS LARGER THAN 2 INCHES TO ALLOW FOR FUTURE SITE MOWING.
6. CONTRACTOR MUST NOTIFY OWNER OF ANY IRRIGATION EQUIPMENT FOUND PRIOR TO REMOVAL.
7. REMOVE EXISTING LIGHT POLE. CONTRACTOR TO USE CAUTION TO ENSURE EXISTING LIGHTING CIRCUIT CONDUCTORS & CONDUITS REMAIN INTACT.
8. EXISTING LIGHT POLE AND LIGHTING CIRCUIT(S) TO REMAIN.

SHEET NOTES

1. CONTRACTOR SHALL PERFORM A SITE VISIT PRIOR TO BIDDING WORK IN ORDER TO ASCERTAIN EXISTING VEGETATIVE COVER.
2. CLEARING SHALL INCLUDE THE REMOVAL OF BUSHES, TREES AND OTHER PLANTS INCLUDING ROOTS, OVER 18 INCHES IN HEIGHT OR AS DETERMINED BY OWNER/ENGINEER, WITHIN THE LIMITS SHOWN.
3. CONTRACTOR MUST ASSESS CLEARING NEEDS AND ATTAIN APPROVAL FROM OWNER PRIOR TO COMMENCING CLEARING ACTIVITIES.
4. CONTRACTOR MUST NOTIFY OWNER OF ANY IRRIGATION EQUIPMENT FOUND PRIOR TO REMOVAL.
5. EXCAVATE LOCATIONS FOR NEW COLUMN FOOTING ARE NOT SHOWN. SEE STRUCTURAL SHEETS FOR CANOPY FOUNDATION LOCATIONS.
6. CONTRACTOR IS RESPONSIBLE FOR LOCATING IN FIELD ALL EXISTING UNDERGROUND UTILITIES PRIOR TO DEMO AND RETURN TO ORIGINAL CONDITION, REPAIR ANY DAMAGE.

811 Know what's below. Call 811 before you dig.

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STAMP:

CITY OF PASO ROBLES

CENTENIAL PARK
600 NICKERSON DR.
PASO ROBLES, CA 93446

PROJECT NUMBER: CA-15-1043

SHEET TITLE: EXISTING-DEMOLITION PLAN

SHEET SIZE: ARCH "D" 24" X 36" (610 x 914)

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1	MODULE	10-14-16	DRM
2	CITY COMMENTS	11-09-16	DRM

DSA IDENTIFICATION STAMP:

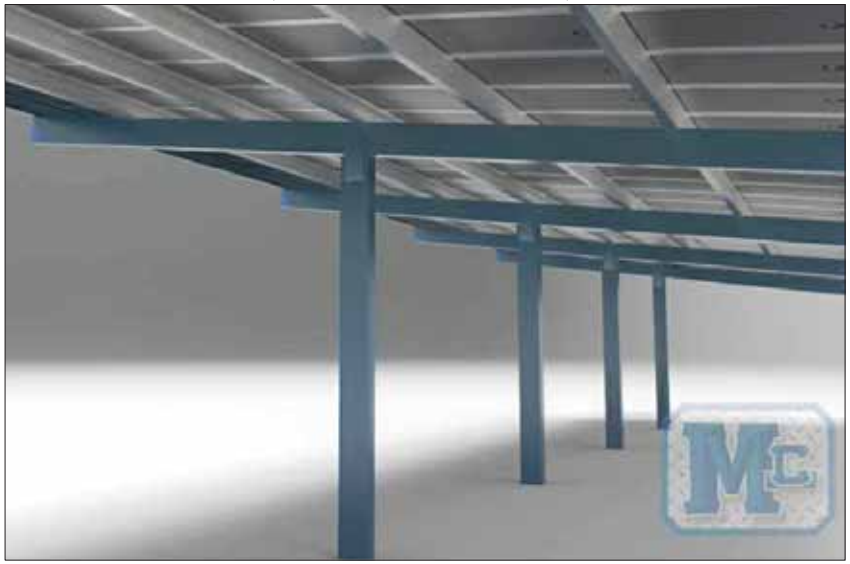
DATE:	22-06-2016
DRAWN BY:	JW
ENGINEER:	AF
APPROVED BY:	(XXX)

PROJECT PHASE: INITIAL DESIGN

SCALE: 1" = 20'-0"

SHEET NO.: A-102

Exhibit B - Development Plans



1 A-201 UNDER CANOPY
SCALE: NTS

2 A-201 ISOMETRIC VIEW
SCALE: NTS

3 A-201 ISOMETRIC VIEW
SCALE: NTS

4 A-201 ISOMETRIC VIEW
SCALE: NTS

SHEET NOTES

1. RENDERINGS ARE STRUCTURALLY ACCURATE BUT DO NOT REFLECT FINAL FINISH OF THE STRUCTURE.

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STAMP:

CITY OF PASO ROBLES

CENTENIAL PARK
600 NICKERSON DR.
PASO ROBLES, CA 93446

PROJECT NUMBER:
CA-15-1043

SHEET TITLE:
ARCHITECTURAL RENDERING

SHEET SIZE:
ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

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NO.	REVISION	DATE	INIT.
1	MODULE	10-14-16	DRM
2	CITY COMMENTS	11-09-16	DRM

DSA IDENTIFICATION STAMP:

DATE:	22-06-2016
DRAWN BY:	JW
ENGINEER:	AF
APPROVED BY:	[XXX]

PROJECT PHASE:
INITIAL DESIGN

SCALE:
NTS

SHEET NO.:
A-201

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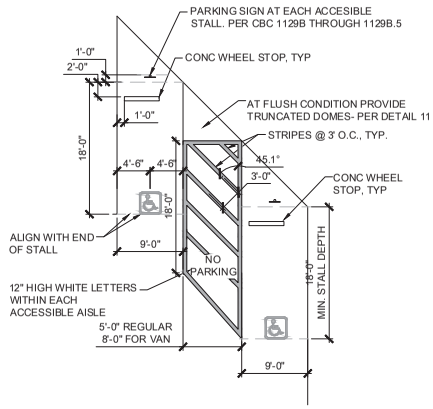
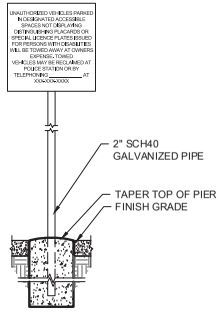
CANOPY DSA TEMPLATE RELEASE 1.1

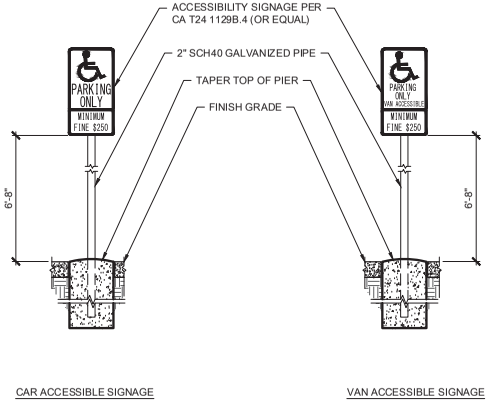
Exhibit B - Development Plans



9 ACCESSIBLE STRIPING REQUIREMENTS
SCALE: NTS



5 TOW-AWAY SIGNAGE
SCALE: NTS



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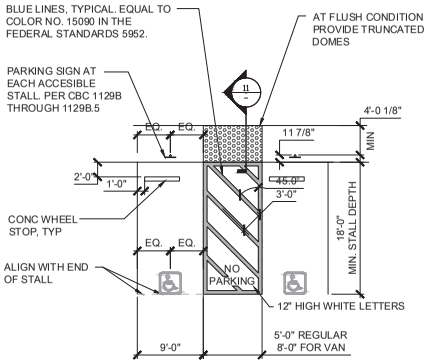

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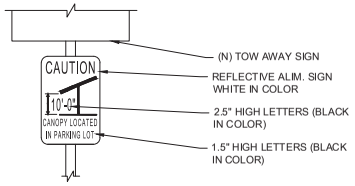
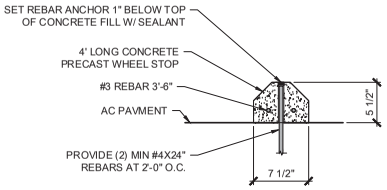


6 MAX HT. AT SITE ENTRY
SCALE: NTS



2 WHEEL STOP DETAIL
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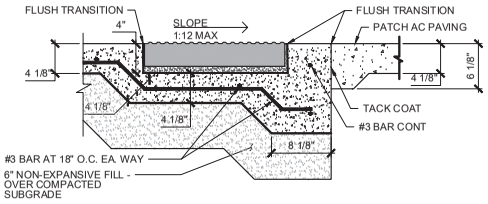
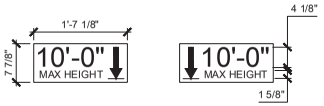
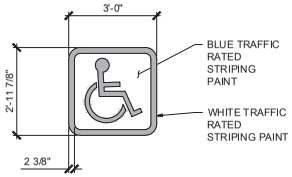


7 TRUNCATED DOME DETAIL
SCALE: NTS

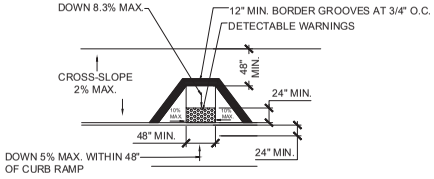
NOTE:
INSTALL DECAL ON THE LOW-SIDE CORNERS OF EACH CANOPY.
DECALS SHALL BE ADHESIVE BACKED EXTERIOR GRADE
REFLECTIVE YELLOW VINYL WITH BLACK TEXT.



3 MAX HEIGHT SIGNAGE
SCALE: NTS



11 HANDICAP LABELING DETAIL
SCALE: NTS



8 ACCESSIBLE CURB CUT
SCALE: NTS

4 COMPACT LABELING DETAIL
SCALE: NTS

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STAMP:

CITY OF PASO ROBLES
CENTENIAL PARK
600 NICKERSON DR.
PASO ROBLES, CA 93446

PROJECT NUMBER: CA-15-1043

SHEET TITLE: TYPICAL ACCESSIBILITY DETAILS

SHEET SIZE: ARCH "D" 24" X 36" (610 x 914)
0 ½" 1"

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NO.	REVISION	DATE	INIT.
1	MODULE	10-14-16	DRM
2	CITY COMMENTS	11-09-16	DRM

DSA IDENTIFICATION STAMP:

DATE:	22-06-2016
DRAWN BY:	JW
ENGINEER:	AF
APPROVED BY:	[XXX]

PROJECT PHASE: INITIAL DESIGN

SCALE: AS SHOWN

SHEET NO.: A-501

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Printed: 11/9/2016 11:29 AM

CANOPY DSA TEMPLATE RELEASE 1.1

ELECTRICAL NOTES FOR NEW PHOTOVOLTAIC SYSTEM:

1. THIS PROPOSED SOLAR ELECTRIC SYSTEM IS INTENDED TO OPERATE IN PARALLEL WITH POWER RECEIVED FROM THE UTILITY SERVICE PROVIDER.
2. THE INVERTER FOR THE PROPOSED SOLAR ELECTRIC SYSTEM SHALL BE IDENTIFIED FOR USE IN SOLAR PHOTOVOLTAIC SYSTEMS. ALL EQUIPMENT SHALL BE UL APPROVED.
3. THIS SYSTEM IS INTENDED TO CONNECT TO THE EXISTING FACILITY POWER SYSTEM AT A SINGLE POINT, POINT OF COMMON COUPLING (POCC). THIS CONNECTION SHALL BE IN COMPLIANCE WITH THE NEC ARTICLE 705.12 "POINT OF CONNECTION."
4. ALL SOURCE CIRCUITS SHALL HAVE INDIVIDUAL SOURCE CIRCUIT PROTECTION FOR TESTING AND ISOLATION.
5. ALL DISCONNECTING COMBINERS SHALL BE SECURED FROM UNAUTHORIZED/UNQUALIFIED PERSONNEL BY LOCK OR LOCATION
6. ALL DISCONNECTING COMBINERS, PULL/SPLICE BOXES, AND ENCLOSURES SHALL BE LISTED FOR ITS PURPOSE.
7. EQUIPMENT SHALL BE INSTALLED IN A SECURE AREA.
8. CONDUITS AND CABLES SHALL NOT ENTER THE TOP OR SIDES OF ANY OUTDOOR ENCLOSURE ABOVE ELECTRIC/ELECTRONIC EQUIPMENT WITHOUT WRITTEN APPROVAL FROM SUNEDISON PROJECT ENGINEER.
9. ALL METALLIC EXPANSION FITTINGS SHALL HAVE INTERNAL OR EXTERNAL BONDING TO ENSURE CONTINUITY.

WIRING AND WIRING METHODS:

ALL WIRING METHODS AND INSTALLATION PRACTICES SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LOCAL STATE CODES, AND OTHER APPLICABLE LOCAL CODES.

1. EXPOSED PV SOLAR MODULE WIRING WILL BE PV WIRE, 90°C DEGREE, WET RATED AND UV RESISTANT. ALL EXPOSED CABLES, SUCH AS MODULE LEADS SHALL BE SECURED WITH MECHANICAL OR OTHER APPROVED SUN-LIGHT RESISTANT MEANS. THE USE OF PLASTIC ZIP TIES IS NOT AN APPROVED METHOD TO SUPPORT OR ATTACH WIRE TO A STRUCTURE; THESE ARE ONLY PERMITTED FOR SUPPLEMENTAL 'GROUPING' OR 'BUNDLING' CONDUCTORS INSIDE OF EQUIPMENT. HEYCO SUNRUNNER PV SPECIFIC STAINLESS STEEL CLIPS AND HEYCO SUNBUNDLER VINYL JACKETED STEEL CABLES TIES OR AN APPROVED EQUAL ARE ALLOWED FOR USE IN THIS APPLICATION.
2. **WIRE COLOR SPECIFICATIONS:**

AC WIRE COLOR CHART		
	AC CONDUCTORS	
	277 / 480 Volt	120 / 208 Volt
Phase A	BROWN	BLACK
Phase B	ORANGE	RED
Phase C	YELLOW	BLUE
Grounded Conductor	GRAY or WHITE	WHITE
Grounding Conductor	GREEN or BARE	GREEN or BARE
Grounding Electrode Conductor	GREEN W/ ORANGE	GREEN W/ ORANGE

DC WIRE COLOR CHART			
SYSTEM TYPE	DC CONDUCTORS		
	POSITIVE (+)	NEGATIVE (-)	GROUND
Ungrounded (Floating Systems)	RED	BLACK	GREEN or BARE
Positive Grounded Systems	WHITE or GRAY	BLACK	
Negative Grounded Systems	RED	WHITE or GRAY	

NOTE:
CONTRACTOR IS REQUIRED TO SUBMIT WIRE SPECIFICATIONS (INSULATION TYPE, COLOR, & CONDUCTOR MATERIAL) TO SUNEDISON FOR APPROVAL PRIOR TO PROCUREMENT/INSTALLATION.

3. PV STRING HOME RUNS SHALL BE LABELED ON BOTH ENDS, AT ARRAY AND AT COMBINER. COMBINER OUTPUT CONDUCTORS SHALL BE LABELED AT BOTH ENDS, AT COMBINER AND AT DISCONNECT.
4. LIQUID TIGHT FLEXIBLE METAL CONDUIT IS GENERALLY SUITABLE FOR INSTALLATION IN WET AND DRY LOCATIONS. SHOULD IT BE EMPLOYED, SUPPORTS WILL BE NO MORE 12 INCHES FROM BOXES (JUNCTION BOX, CABINETS, OR CONDUIT FITTING) AND NO MORE THAN 54 INCHES APART (NEC 350.30).
5. THE PHOTOVOLTAIC SOURCE CIRCUITS AND PHOTOVOLTAIC OUTPUT CIRCUITS OF THIS PROPOSED SOLAR SYSTEM SHALL NOT BE CONTAINED IN THE SAME RACEWAY, CABLE TRAY, CABLE, OUTLET BOX, JUNCTION BOX, OR SIMILAR FITTING AS FEEDERS OR BRANCH CIRCUITS OF OTHER SYSTEMS UNLESS THE CONDUCTORS OF THE DIFFERENT SYSTEMS ARE SEPARATED BY A PARTITION OR ARE CONNECTED TOGETHER.
6. UNLESS MARKED AS UV RESISTANT, PV CIS NOT APPROVED FOR INSTALLATION IN LOCATIONS SUBJECTED TO DIRECT SUNLIGHT AND SHALL NOT BE EMPLOYED IN ANY SUCH LOCATION.
7. LONG STRAIGHT EXPOSED METAL CONDUIT (RMC, GRC, EMT) RUNS, 100 FEET OR MORE, SHALL HAVE EXPANSION FITTINGS INSTALLED PER NEC 300.7(B). EXPANSION FITTINGS SHALL ALSO BE USED WHEN CONDUIT SPANS AN EXPANSION JOINT.
8. FUSES AND WIRES SUBJECT TO TRANSFORMER INRUSH CURRENT SHALL BE SIZED ACCORDINGLY.
9. ALL DC MATERIALS SHALL BE UL LISTED FOR 1000V DC.
10. WHEN TRANSITIONING UNDERGROUND PVC CONDUIT TO ABOVE GROUND RMC, IMC OR EMT CONDUIT, USE 20 MIL PIPE WRAP TAPE HALF-LAPPED FROM 6" PAST TRANSITION POINT ON PVC TO 6" ABOVE GROUND ON METALLIC CONDUIT. AN EXPANSION JOINT SHALL BE USED IN THE TRANSITION TO ABOVE GROUND CONDUIT WHERE REQUIRED BY NEC 300.5(J).
11. ANY METAL SHAVINGS RESULTING FROM SITE WORK SHALL BE CLEANED FROM ENCLOSURE INTERIORS, TOP SURFACES OF ENCLOSURE, ROOF SURFACE, AND ANY ADDITIONAL AREAS WHERE OXIDATION OR CONDUCTIVE METAL SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUIT OR OTHER DAMAGE.
12. CONDUITS LONGER THAN 200 FT WITH NEGATIVE SLOPE TOWARD ELECTRICAL EQUIPMENT SHALL HAVE A PULL BOX OR VAULT ADJACENT TO THE ENTRY POINT INTO THE ELECTRICAL EQUIPMENT.
13. WHEN TRANSITIONING FROM FREE AIR TO CONDUCTORS IN CONDUIT A LISTED FITTING SHALL BE USED TO PREVENT THE ENTRY OF MOISTURE.
14. LAND TCONDUIT BODIES SHALL NOT BE USED.
15. ALL AC AND DC COPPER TERMINATION(S) SHALL HAVE KOPR-SHIELD OR EQUIVALENT APPLIED.
16. MEGGER TESTING SHALL BE PREFORMED AT 1000 VDC FOR ALL AC CIRCUITS 480 V OR BELOW AND DC CIRCUITS 600 V OR BELOW. MEGGER TESTING WILL BE PREFORMED AT 1500 VDC FOR DC CIRCUITS IN 1000 VDC SYSTEMS. A MINIMUM OF 250 MEGAOHMS RESISTANCE TO GROUND IS REQUIRED. DO NOT MEGGER THE SOLAR MODULES AS DAMAGE WOULD LIKELY RESULT.
17. BENDS SHALL NOT DAMAGE THE RACEWAY OR SIGNIFICANTLY CHANGE THE INTERNAL DIAMETER OF RACEWAY PER TABLE 2 OF THE NEC.
18. SUPPORT CONDUCTORS IN VERTICAL CONDUITS IN ACCORDANCE WITH THE REQUIREMENTS OF NEC 300.19.
19. CONNECTORS TO BE TORQUED PER DEVICE LISTING, OR MANUFACTURERS RECOMMENDATIONS. CONNECTORS ARE TO BE MARKED WITH PERMANENT MARKING PAINT, AFTER TORQUEING.
20. ALL BARE CU WIRES SHALL BE INSTALLED TO NOT COME INTO CONTACT WITH DISSIMILAR METALS.
21. SPLICES/CONNECTORS SHALL BE INSULATED AND WILL REQUIRE PROJECT ENGINEER APPROVAL. UL LISTED ELECTRICAL TAPE ALONE IS NOT SUITABLE AS THE ONLY INSULATION MEANS. FOLLOW MANUFACTURERS INSTRUCTIONS FOR INSTALLATION, AND APPLICATION OF INSULATING PRODUCT.
22. ALL LV AC WIRING SHALL BE TYPE THWN-2 RATED AT 90°C DEGREES. XHHW-2 IS AN APPROVED ALTERNATE. THIS NOTE WILL BE SUPERCEDED BY ANY INVERTER SPECIFICATIONS REQUIRING LV AC WIRE TO MEET HIGHER VOLTAGE OR INSULATION STANDARDS.
23. USE MEYERS(OR APPROVED EQUIPMENT) HUB LISTED TO PROVIDE MOISTURE PROTECTION FOR CONDUIT ENTRANCES IN ALL APPLICABLE LOCATIONS AS REQUIRED BY NEC 314.15.
24. PROTECT WIRE FROM SHARP EDGES WITH UV RATED SPIRAL WRAP, EDGE-GUARD, OR SPLIT LOOM.
25. MODULE LEAD CONNECTORS SHALL BE INSTALLED SUCH THAT THEY ARE EASILY ACCESSIBLE AND PROTECTED FROM EXPOSURE TO DIRECT SUNLIGHT OR RAIN. THEY SHALL NOT BE INSTALLED WITHIN TUBING, CONDUIT OR MODULE GAPS.
26. THE STRING SOURCE CIRCUIT WIRING NEEDS TO BE SUPPORTED ADEQUATELY IN LENGTHS NOT TO EXCEED 24". THE MODULE TO MODULE INTERCONNECTION LEADS NEED TO BE SUPPORTED AT A MINIMUM OF 12" FROM THE J-BOX AND THE MODULE TO MODULE CONNECTION POINT.
27. POLARIS TAPS AND BLOCKS ARE NOT TO BE USED TO CONNECT CURRENT CARRYING CONDUCTORS.
28. MODULE TO SOURCE CIRCUIT CONNECTORS MUST BE OF THE SAME MAKE AND MODEL AS THE MODULE TO MODULE CONNECTORS. THE CONNECTION TO SOURCE CIRCUITS MUST BE PER THE MODULE MANUFACTURER AND CONNECTOR MANUFACTURER INSTRUCTIONS. CONTRACTOR TO VERIFY THAT THE STRING CONDUCTOR DIAMETER IS COMPATIBLE WITH THE STRING CIRCUIT HOME-RUN CONNECTORS
29. HOMERUN STRING WIRING TO BE SUPPORTED IN INTERVALS NOT TO EXCEED 3' AND WITHIN 12" OF ALL TERMINATIONS.
30. PV WIRE HARNESSES SHALL NOT BE USED. CONDUCTORS SHALL BE PARALLELED AT COMBINER BOXES OR STRING INVERTERS ONLY.
31. ALL EMT SHALL USE LISTED AND APPROVED RAIN TIGHT FITTINGS WHEN INSTALLED OUTDOORS OR IN A WET LOCATION.
32. OUTDOOR ELECTRICAL CONNECTIONS SHALL BE STAINLESS STEEL HARDWARE ONLY.

DAMAGE PROTECTION:

1. THE ELECTRICAL CONTRACTOR SHALL CONSIDER THE WEATHERING OF EQUIPMENT OVER TIME AND ELIMINATE THE POSSIBILITY OF DEGRADATION DUE TO CORROSION, WATER ENTRY AND UV EXPOSURE. AS A RESULT, THE USE OF UNISTRUT OR SIMILAR MOUNTING SYSTEMS IS REQUIRED TO MOUNT ENCLOSURES, PULL BOXES, LOAD CENTERS, FUSE BOXES, OR OTHER EQUIPMENT.
2. ALL NEMA 4 BOXES SHALL BE EQUIPPED WITH LISTED DRAIN PLUGS INSTALLED TO ALLOW WATER TO DRAIN. ANY MODIFICATION TO AS-MANUFACTURED EQUIPMENT SHOULD BE DONE IN SUCH A WAY AS TO MAINTAIN ALL LISTED RATINGS.
3. ALL NEMA 3 BOXES SHALL BE EQUIPPED WITH A WEEP HOLE OR LISTED DRAIN PLUGS INSTALLED TO ALLOW WATER TO DRAIN.
4. ALL OUTDOOR ENCLOSURES REQUIRE AN APPROVED MEANS OF DRAINAGE AND VENTILATION.
5. ALL ELECTRICAL CONDUIT, EQUIPMENT AND COMPONENTS MUST BE ADEQUATELY PROTECTED FROM DAMAGE AND VANDALISM BY THE USE OF BOLLARDS, SHIELDS, GUARDS OR OTHER ACCEPTABLE MEANS.
6. ALL CIRCUIT BREAKERS INSTALLED THAT ARE SUBJECT TO REVERSE POWER FLOW SHALL BE LISTED AND LABELED AS BACKFEED COMPATIBLE.

ALUMINUM CONDUCTOR INSTALLATION NOTES:

1. MINIMUM WIRE SIZE FOR CURRENT CARRYING CONDUCTORS WHEN IMPLEMENTING ALUMINUM AS A CONDUCTOR SHALL BE 1/0 AWG STRANDED, COMPACT ELECTRICAL GRADE AA-8000 SERIES ALLOY.
2. ALUMINUM POWER CABLE, WIRE CONNECTORS, AND INSULATING AND CODING TAPE MANUFACTURERS SHALL BE APPROVED BY SUNEDISON PRIOR TO USAGE.
3. WHERE BOLTED CONNECTIONS ARE NOT POSSIBLE, MECHANICAL SCREW STYLE LUGS AND TERMINATIONS ARE APPROVED ONLY WHEN USED IN CONJUNCTION WITH A LISTED COPPER PIGTAIL COMPRESSION ADAPTOR (SOLID CORE PIN ADAPTERS ARE NOT ALLOWED).
4. USE OF A "ONE-SHOT" CRIMPER OR "DIE-LESS CRIMPERS" WILL NOT BE ALLOWED.
5. COMPRESSION STYLE LUGS AND TERMINATIONS SHALL BE RATED FOR THE MAXIMUM DC AND AC VOLTAGE OF THE SYSTEM.
   5.1. MUST BE PRE-FILLED WITH OXIDE INHIBITOR.
   5.2. WIRE STRIPPING AND BRUSHING OF CONDUCTOR IN ACCORDANCE WITH VENDOR SPECS IS REQUIRED IMMEDIATELY PRIOR TO LUG INSTALLATION.
   5.3. OXIDE INHIBITOR MUST BE APPLIED TO EXPOSED CONDUCTOR IMMEDIATELY AFTER STRIPPING AND BRUSHING AND IMMEDIATELY PRIOR TO INSTALLATION OF THE LUG.
   5.4. USE COMPRESSION TOOL LISTED FOR USE WITH SELECTED COMPRESSION CONNECTOR.
   5.5. A MINIMUM 9" LENGTH OF COLD OR HEAT SHRINK WITH A VOLTAGE RATING EQUAL TO THE CONDUCTOR SHALL BE APPLIED TO COVER THE CONNECTION BETWEEN CRIMP AND THE CONDUCTOR BEGINNING AT THE STRAIGHT SECTION OF THE CRIMP.
   5.6. ALL CONNECTORS AND CORRESPONDING CRIMPING TOOLS SHALL BE UL LISTED FOR THEIR SPECIFIC APPLICATION.
6. INSULATING AND COLOR CODING TAPE SHALL BE PREMIUM GRADE PRESSURE SENSITIVE VINYL HEAT/COLD/MOISTURE/SUNLIGHT/ RESISTANT. INSULATING TAPE SHALL BE BLACK AND COLOR CODING TAPE SHALL BE FADE RESISTANT.
7. FOR ALUMINUM MV CONDUCTORS, WHERE USED, THE GUIDELINES IN THIS SECTION PLUS GENERAL REQUIREMENTS FOR MV CONDUCTOR INSTALLATION SHALL APPLY.
8. DIRECT LANDING OF ALUMINUM CONDUCTORS IS ONLY ALLOWED TO BREAKERS WHICH ARE SPECIFICALLY RATED FOR ALUMINUM CONDUCTORS.

GROUNDING:

SEE ELECTRICAL DIAGRAM AND ELECTRICAL DETAILS FOR MORE GROUNDING INFORMATION.

1. ONLY ONE CONNECTION TO DC CIRCUITS AND ONE CONNECTION TO AC CIRCUITS WILL BE USED FOR SYSTEM GROUNDING (NEC 690.42) (REFERENCED TO THE SAME POINT).
2. EQUIPMENT GROUNDING CONDUCTORS AND SYSTEM GROUNDING CONDUCTORS WILL HAVE AS SHORT A DISTANCE TO GROUND AS POSSIBLE AND A MINIMUM NUMBER OF TURNS.
3. NON-CURRENT CARRYING METAL PARTS SHALL BE CHECKED FOR PROPER GROUNDING, NOTING THAT TERMINAL LUGS BOLTED ON AN ENCLOSURE'S FINISHED SURFACE MAY BE INSULATED BECAUSE OF PAINT/FINISH. PAINT/FINISH AT POINT OF CONTACT SHALL BE PROPERLY REMOVED.
4. RACKING COMPONENTS AND STRUCTURAL SUPPORTS MUST BE ELECTRICALLY BONDED TOGETHER BY AN ACCEPTABLE MEANS.
5. MODULES SHALL BE GROUNDED WITH EQUIPMENT GROUNDING METHODS APPROVED BY THE MANUFACTURER WITH A MEANS OF BONDING LISTED FOR THIS PURPOSE.
6. THE CONNECTION TO THE MODULE OR PANEL OF THIS PROPOSED SOLAR ELECTRIC SYSTEM SHALL BE SO ARRANGED THAT REMOVAL OF A MODULE OR A PANEL FROM THE PHOTOVOLTAIC SOURCE CIRCUIT DOES NOT INTERRUPT A GROUNDED CONDUCTOR TO ANOTHER PHOTOVOLTAIC SOURCE CIRCUIT. SETS OF MODULES INTERCONNECTED AS SYSTEMS RATED AT 50 VOLTS OR LESS WITH OR WITHOUT BLOCKING DIODES, AND HAVING A SINGLE OVER CURRENT DEVICE SHALL BE CONSIDERED AS A SINGLE SOURCE CIRCUIT.
7. GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, INCLUDING BUT NOT LIMITED TO GROUND RODS, GROUNDING LUGS, GROUNDING CLAMPS, ETC
8. WHERE USED, GROUND LUGS SHALL BE RATED FOR DIRECT BURIAL (DB RATED). CONTRACTOR IS TO SUPPLY DOCUMENTATION PROVING THIS DURING PRODUCT SUBMITTALS.
9. BONDING PAINTED COMPONENTS.
10. ALL RACEWAYS AND ENCLOSURES WILL REQUIRE A PHYSICAL CONNECTION TO THE GEC CONTAINED WITHIN.

GROUND FAULT PROTECTION:

1. PHOTOVOLTAIC INVERTERS SHALL BE EQUIPPED WITH DC GROUND FAULT PROTECTION TO REDUCE FIRE HAZARDS. INVERTERS ARE ALSO EQUIPPED WITH ANTI-ISLANDING CIRCUITRY.

DISCONNECTING MEANS:

1. MEANS SHALL BE PROVIDED TO DISCONNECT ALL CURRENT CARRYING CONDUCTORS OF THE PHOTOVOLTAIC POWER SOURCE FROM ALL OTHER EXISTING CONDUCTORS.
2. WHERE A CIRCUIT GROUNDING CONNECTION IS NOT DESIGNED TO BE AUTOMATICALLY INTERRUPTED AS PART OF THE GROUND-FAULT PROTECTION SYSTEM REQUIRED BY NEC 690.5, A SWITCH OR CIRCUIT BREAKER USED AS A DISCONNECTING MEANS SHALL NOT HAVE A POLE IN THE GROUNDED CONDUCTOR.
3. THE GROUNDED CONDUCTOR MAY HAVE A BOLTED OR TERMINAL DISCONNECTING MEANS TO ALLOW MAINTENANCE OR TROUBLESHOOTING BY QUALIFIED PERSONNEL.
4. UNLESS DISCONNECT IS SERVICING A LINE-SIDE TAP, THE DISCONNECTING MEANS SHALL NOT BE REQUIRED TO BE SUITABLE AS SERVICE EQUIPMENT AND SHALL BE RATED IN ACCORDANCE WITH NEC 690.17.
5. EQUIPMENT SUCH AS PHOTOVOLTAIC SOURCE CIRCUITS, OVER CURRENT DEVICES, AND BLOCKING DIODES SHALL BE PERMITTED ON THE PHOTOVOLTAIC SIDE OF THE PHOTOVOLTAIC DISCONNECTING MEANS.
6. MEANS SHALL BE PROVIDED TO DISCONNECT EQUIPMENT SUCH AS INVERTERS, BATTERIES, CHARGE CONTROLLERS, AND THE LIKE FROM ALL UNGROUNDED CONDUCTORS OF ALL SOURCES. IF THE EQUIPMENT IS ENERGIZED FROM MORE THAN ONE SOURCE, THE DISCONNECTING MEANS SHALL BE GROUPED AND IDENTIFIED.
7. A SINGLE DISCONNECTING MEANS SHALL BE PERMITTED FOR THE COMBINED AC OUTPUT OF ONE OR MORE INVERTERS IN AN INTERACTIVE SYSTEM, PROVIDED EACH INVERTER ASSOCIATED WITH THE DISCONNECT HAS ITS OWN INTERNAL AC DISCONNECT.
8. DISCONNECTING MEANS SHALL BE PROVIDED TO DISCONNECT A FUSE FROM ALL SOURCES OF SUPPLY IF THE FUSE IS ENERGIZED FROM BOTH DIRECTIONS AND IS ACCESSIBLE TO OTHER THAN QUALIFIED PERSONS. SUCH A FUSE IN A PHOTOVOLTAIC SOURCE CIRCUIT SHALL BE CAPABLE OF BEING DISCONNECTED INDEPENDENTLY OF FUSES IN OTHER PHOTOVOLTAIC SOURCE CIRCUITS.
9. ALL DISCONNECTS AND COMBINERS SHALL BE SECURED FROM UNAUTHORIZED AND UNQUALIFIED PERSONNEL BY EITHER LOCK OR LOCATION.

REQUIRED SAFETY SIGNS AND LABELS:

REQUIRED SAFETY SIGNS AND LABELS SHALL BE ETCHED PLACARDS PERMANENTLY ATTACHED BY ADHESIVE, OR OTHER MECHANICAL MEANS. LABELS SHALL COMPLY WITH ARTICLE 690 OF THE NEC OR OTHER APPLICABLE STATE AND LOCAL CODES. SEE LABELS AND MARKING PAGE FOR MORE INFORMATION.

WEAR PERSONAL PROTECTIVE EQUIPMENT(PPE) APPROPRIATE FOR THE HAZARD: INSULATED GLOVES WITH PROTECTORS, INSULATED MATS AND TOOLS.

1. ANY SWITCH, FUSES, OR CIRCUIT BREAKERS THAT CAN BE ENERGIZED IN EITHER DIRECTION SHALL BE LABELED AS FOLLOWS:

   WARNING:
   ELECTRICAL SHOCK HAZARD DO NOT TOUCH TERMINALS.
   TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE
   ENERGIZED IN THE OPEN POSITION

2. THIS PHOTOVOLTAIC SYSTEM WILL BE EQUIPPED WITH DC DISCONNECTING COMBINERS WHICH WILL BE LABELED AS FOLLOWS:

   PHOTOVOLTAIC
   DISCONNECTING COMBINERS

3. THIS PHOTOVOLTAIC SYSTEM WILL BE EQUIPPED WITH AN AC DISCONNECT WHICH WILL BE LABELED AS FOLLOWS:

   PHOTOVOLTAIC
   DISCONNECTING MEANS
   A.C. DISCONNECT

4. A MARKING SPECIFYING THE PHOTOVOLTAIC POWER SOURCE RATED AS FOLLOWS SHALL BE PROVIDED AT AN ACCESSIBLE LOCATION AT THE DISCONNECTION MEANS FOR THE POWER SOURCE:

   OPERATING CURRENT
   OPERATING VOLTAGE
   MAXIMUM SYSTEM VOLTAGE
   SHORT CIRCUIT CURRENT
   COMBINER

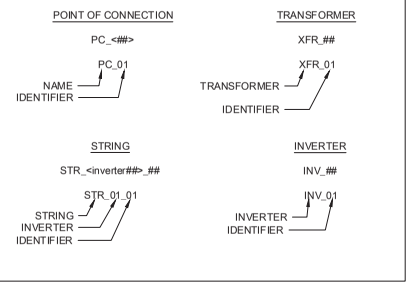
5. ANY JUNCTION BOX, COMBINER BOX, DISCONNECT, AND DEVICE WHERE ENERGIZED UNGROUNDED DC CIRCUITS MAY BE EXPOSED DURING SERVICE:

   WARNING:
   ELECTRICAL SHOCK HAZARD
   THE CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM
   ARE UNGROUND AND MAY BE ENERGIZED

MARKINGS:

1. ALL INTERACTIVE SYSTEM POINTS OF INTERCONNECTION WITH OTHER SOURCES SHALL BE MARKED AT AN ACCESSIBLE LOCATION AT THE DISCONNECTION MEANS.
2. A PERMANENT ETCHED PLAQUE OR DIRECTORY SHALL BE PROVIDED IDENTIFYING THE LOCATION OF THE SERVICE DISCONNECTION MEANS AND THE PHOTOVOLTAIC SYSTEM DISCONNECTION MEANS, IF NOT LOCATED AT THE SAME LOCATION.
3. ALL REQUIRED EQUIPMENT SHALL BE UL LISTED AND LABELED ACCORDINGLY.
4. ALL PULL BOXES SHOULD BE PERMANENTLY MARKED WITH EITHER "ELECTRIC" OR "COMMUNICATION" DEPENDING ON THE APPLICATION, PER NEC 110.75(E).

EQUIPMENT LABELING KEY



GENERAL NOTES FOR GRID TIE PHOTOVOLTAIC INVERTERS:

1. REFER TO EQUIPMENT INSTALLATION MANUAL.

ELECTRICAL SYMBOLS

- TRANSFORMER
- SWITCH
- INVERTER
- FUSE.
- SURGE ARRESTOR
- 600A NON-LOAD BREAK ELBOW
- TR-31 — TRANSFORMER NUMBER
- SC1 — SECTIONALIZED CABINET NUMBER
- C — REFERS TO CABLE SCHEDULE.
- MV101 — MV CABLE IDENTIFICATION NUMBER
- Δ — DELTA CONNECTION
- Y — WYE CONNECTION
- GROUND

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CITY OF PASO ROBLES
CENTENIAL PARK
600 NICKERSON DR.
PASO ROBLES, CA 93446

PROJECT NUMBER: CA-15-1043

SHEET TITLE: ELECTRICAL NOTES

SHEET SIZE: ARCH "D" 24" X 36" (610 x 914)
0 ½" 1"

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NO.	REVISION	DATE	INIT.
1	MODULE	10-14-16	DRM
2	CITY COMMENTS	11-09-16	DRM

DSA IDENTIFICATION STAMP:

DATE:	22-06-2016
DRAWN BY:	JW
ENGINEER:	AF
APPROVED BY:	[XXX]

PROJECT PHASE: INITIAL DESIGN

SCALE: [scale]

SHEET NO.: E-001

GENERAL MEDIUM VOLTAGE NOTES:

1. ELBOWS, BUSHINGS, AND TEST CAPS MUST BE CLEAN AND PROPERLY LUBRICATED.
2. POWER CABLE, ELBOW, AND M.V. TERMINATION DRAINS SHALL BE INSTALLED IN A MANNER THAT WILL ALLOW FOR THE REMOVAL, STANDING OFF, AND/OR LANDING OF ELBOWS WITH MINIMUM BENDING RADIUS PER NEC 300.34.
3. TAPE SHIELD ADAPTER KITS ARE TO BE USED WITH POWER CABLE THAT HAS TAPE SHIELDING.
4. THE MEDIUM-VOLTAGE SYSTEM IS DESIGNED TO BE A [xx,xxx]V, 3-PHASE, 3-WIRE PLUS GROUND, EFFECTIVELY GROUNDED SYSTEM WHETHER CONNECTED TO THE UTILITY OR ISOLATED FROM IT.
5. ALL MEDIUM VOLTAGE WORK SHALL COMPLY WITH THE LATEST EDITION OF ANSI C2 - NATIONAL ELECTRICAL SAFETY CODE (NESC)
6. MEDIUM VOLTAGE CABLES:
   6.1. WHERE MEDIUM VOLTAGE CABLES ARE INSTALLED ALONG ACCESS ROADS, THEY SHALL BE DIRECT BURIED.
7. SHOP DRAWINGS SHALL BE SUBMITTED FOR ENGINEER REVIEW AND APPROVED PRIOR TO FABRICATION OR INSTALLATION OF THE FOLLOWING EQUIPMENT.
   7.1. QUALIFICATIONS OF TESTING AGENCY
   - MEDIUM VOLTAGE CABLE
   - MEDIUM VOLTAGE SWITCHGEAR/SECTIONALIZING CABINET
   - MV SWITCH

   7.2 CONTRACTOR (TESTING AGENCY) TO PERFORM ACCEPTANCE TESTING PER SPECIFICATION SECTION 16080.
8. ALL EQUIPMENT INCLUDING SWITCHGEAR, SECTIONALIZING CABINETS, TRANSFORMERS, ETC. SHALL BE LABELED ON THE FRONT EXTERIOR TO CORRESPOND TO THE IDENTIFICATION SHOWN ON THE DRAWINGS WITH OUTDOOR, REFLECTIVE, ADHESIVE LABELS, BLACK ON YELLOW, MINIMUM 2 INCH HIGH LETTERS.
9. ALL MEDIUM VOLTAGE CABLES SHALL BE LABELED AT EACH END, AT AN ACCESSIBLE POINT INSIDE EQUIPMENT ENCLOSURE, WITH CIRCUIT AND PHASE IDENTIFICATION CORRESPONDING TO THE DRAWINGS. LABELS SHALL BE ENGRAVED AND FILLED STAINLESS STEEL, OR TWO-COLOR ENGRAVED PHENOLIC, SECURED WITH UV-RESISTANT WIRE TIES. LABELS SHALL BE VISIBLE FROM OUTSIDE THE ENCLOSURE WITHOUT REACHING INSIDE OR MOVING CABLES.
10. ARRANGE PHASES IN SWITCHGEAR, SECTIONALIZING CABINETS, ETC., A-B-C FROM LEFT TO RIGHT OR TOP TO BOTTOM AS VIEWED FROM THE FRONT.
11. VERIFY UTILITY PHASE SEQUENCE AND COORDINATE INSTALLATION OF FEEDER CONDUCTORS TO PROVIDE CORRECT PHASE SEQUENCE AT INVERTER SIDE OF STEP-UP TRANSFORMERS.
12. PROVIDE ARC FLASH HAZARD WARNING LABELS COMPLYING WITH ANSI Z535.4 ON ALL EQUIPMENT. LABELS SHALL BE APPLIED ON BOTH INSIDE AND OUTSIDE DOORS OR BARRIERS OF OUTDOOR EQUIPMENT.
13. ALL EQUIPMENT LABELING SHALL COMPLY WITH SUNEDISON REQUIREMENTS.
14. EQUIPMENT AND COMPONENTS SHALL BE LISTED AND LABELED BY A NATIONALLY-RECOGNIZED TESTING LABORATORY (NRTL) SUCH AS UL OR ETL, WHERE SUCH LISTING IS AVAILABLE FOR THE APPLICATION.
15. PROVIDE DANGER, WARNING, AND CAUTION LABELS AS REQUIRED BY NESC, OR OSHA STANDARDS ON EQUIPMENT ENCLOSURES, DOORS, ACCESS PLATES, AND BARRIERS AND LABEL ALL MEDIUM VOLTAGE EQUIPMENT WITH THE OPERATING VOLTAGE.

CONDUITS AND DUCTBANKS:

1. CONDUITS FOR DIRECT-BURIAL OR CONCRETE ENCASEMENT SHALL BE SCHEDULE 40 PVC.
2. ALL MEDIUM VOLTAGE CONDUITS SHALL HAVE MINIMUM 60 INCH RADIUS SWEEPS EXCEPT 36 INCH MINIMUM RADIUS IS REQUIRED FOR VERTICAL SWEEPS UP TO EQUIPMENT.
3. MAINTAIN MINIMUM 6 INCHES OF SPACING HORIZONTALLY AND VERTICALLY AT CROSSINGS BETWEEN MEDIUM VOLTAGE CONDUITS OR DUCTBANKS AND LOW-VOLTAGE OR COMMUNICATIONS CONDUITS.
4. MAINTAIN MINIMUM 4 FOOT SPACING BETWEEN MEDIUM VOLTAGE CONDUCTORS AND POWER CIRCUITS OF OTHER SYSTEMS WHEN RUN PARALLEL FOR DISTANCES OF OVER 10 PERCENT OF THE RUN OF EITHER CIRCUIT UNLESS THE DUCTBANK SECTIONS INDICATE CLOSER SPACINGS WHICH HAVE BEEN CONSIDERED IN AMPACITY CALCULATIONS.
5. MAINTAIN ALL CONDUIT ENTRIES TO EQUIPMENT WITHIN MANUFACTURER'S DESIGNATED CONDUIT ENTRY SPACE AND ARRANGE CONDUITS TO PERMIT THE MOST DIRECT ROUTING OF CABLES TO TERMINALS AND TO ALLOW ADEQUATE SLACK FOR DISCONNECTION AND PARKING OF LOADBREAK AND DEADBREAK ELBOW CONNECTORS.
6. TOPS OF CONDUIT SHALL BE A MINIMUM OF 4 INCHES ABOVE THE CONCRETE PAD OR GRAVEL BEDDING TO PREVENT INGRESS OF WATER. SEAL ALL CONDUITS TO PREVENT TRANSMISSION OF HUMID AIR BETWEEN INTERIOR AND EXTERIOR OF EQUIPMENT.
7. ALL CONDUITS ENTERING EQUIPMENT TO BE EQUIPPED WITH BELL ENDS TO PREVENT ABRASION.

CONDUCTORS:

1. COMPLETELY INSTALL ALL CONDUIT RUNS AND BACKFILL DUCTBANKS BEFORE PULLING CABLE. PULL A FLEXIBLE MANDREL AND BRUSH THROUGH EACH CONDUIT AFTER INSTALLATION. INSTALL A ½" DIAMETER NYLON PULL ROPE IN ALL SPARE CONDUITS.
2. MEDIUM VOLTAGE CONDUCTORS SHALL BE PULLED USING DIRECT CONNECTION OF PULLING EYES TO THE CONDUCTORS OF EACH CABLE IN THE CIRCUIT OR BY INDIVIDUAL KELLEMS GRIPS APPLIED TO EACH CABLE OF THE CIRCUIT OVER THE INSULATION WITH THE TAPE SHIELDING REMOVED. USE OF KELLEMS GRIPS OVER THE OUTER JACKET OF THE CONDUCTOR OR OVER THE SHIELDING TAPE IS NOT PERMITTED.
3. INSTALL HANDHOLES AS REQUIRED TO MINIMIZE MAXIMUM ALLOWABLE CABLE TENSION PER CABLE MANUFACTURER WHEN PULLING CABLES.
4. SPLICES ARE NOT PERMITTED IN POWER OR CONTROL CONDUCTORS UNLESS INDICATED ON THE DRAWINGS OR APPROVED IN ADVANCE OF INSTALLATION BY ENGINEER AND OWNER.
5. WHERE CONDUCTORS OF DIFFERENT CIRCUITS PASS THROUGH THE SAME MANHOLE, HANDHOLE OR PULLBOX, COVER THE CONDUCTORS OF EACH CIRCUIT WITH ARC-PROOF TAPE, 3M SCOTCH 77 OR EQUIVALENT, SPIRAL WRAPPED HALF-LAPPED AND HELD IN PLACE WITH REVERSE WRAPPED GLASS FIBER TAPE.
6. TERMINATE ALL CONTROL WIRING BETWEEN PIECES OF EQUIPMENT ON FIELD WIRING TERMINAL BOARDS. LABEL ALL CONTROL WIRES WITH TERMINAL BOARD AND TERMINAL NUMBER IDENTIFICATION AT BOTH ENDS.
7. ALL MECHANICAL CONNECTIONS OTHER THAN ELBOW CONNECTORS SHALL BE MADE USING UL-LISTED TIN-PLATED COPPER CIRCUMFERENTIAL COMPRESSION LUGS. LUGS SHALL BE LONG-BARREL WITH NEMA TWO-HOLE DRILLING, BURNDY HYLUG MODEL YAZ OR EQUIVALENT CONNECTED WITH HIGH-STRENGTH SILICON BRONZE BUS BOLTS, NUTS AND LOCK WASHERS. LUGS TO MATCH CONDUCTOR TYPE.
8. VERIFY PROPER TORQUE OF ALL BOLTED CONNECTIONS USING A CALIBRATED TORQUE WRENCH AND MARK EACH BOLT HEAD TO INDICATE VERIFICATION IS COMPLETE.
9. CLEAN AND LUBRICATE ALL LOADBREAK AND DEADBREAK BUSHING SURFACES PER MANUFACTURER'S INSTRUCTIONS BEFORE FINAL CONNECTION.
10. MOUNT FAULT INDICATORS SUCH THAT INDICATOR WINDOW IS READILY VISIBLE WITHOUT THE NEED TO ENTER THE CABLE COMPARTMENT OR MOVE CONDUCTORS OR OTHER COMPONENTS. LABEL FAULT INDICATORS WITH CIRCUIT IDENTIFICATION USING ENGRAVED PHENOLIC LABEL.
11. ALL 600 VOLT CLASS AC WIRING SHALL BE COPPER WIRE, TYPE THHN/THWN-2 RATED AT 90 DEGREES C, AND RATED FOR 600V, OR APPROVED EQUAL.

EQUIPMENT:

1. EQUIPMENT AND COMPONENTS SHALL BE LISTED AND LABELED BY A NATIONALLY-RECOGNIZED TESTING LABORATORY (NRTL) SUCH AS UL OR ETL, WHERE SUCH LISTING IS AVAILABLE FOR THE APPLICATION.
2. PROVIDE DANGER, WARNING, AND CAUTION LABELS AS REQUIRED BY NESC, OR OSHA STANDARDS ON EQUIPMENT ENCLOSURES, DOORS, ACCESS PLATES, AND BARRIERS AND LABEL ALL MEDIUM VOLTAGE EQUIPMENT WITH THE OPERATING VOLTAGE.
3. DOORS PROVIDING ACCESS TO PARTS NORMALLY ENERGIZED AT OVER 600V SHALL BE PADLOCKABLE CLOSED. REMOVABLE PANELS PROVIDING ACCESS TO PARTS NORMALLY ENERGIZED AT OVER 600V SHALL REQUIRE TOOLS FOR REMOVAL OR BE PADLOCKABLE CLOSED.
4. MEDIUM VOLTAGE EQUIPMENT INSTALLED OUTSIDE OF FENCES WHERE ACCESSIBLE TO THE PUBLIC SHALL COMPLY WITH NESC REQUIREMENTS FOR TAMPER-PROOF CONSTRUCTION.
5. EQUIPMENT SHALL BE ANCHORED TO CONCRETE PADS OR FOUNDATIONS PER MANUFACTURER'S INSTRUCTIONS USING GALAVANIZED STEEL ANCHOR BOLTS EMBEDDED IN PAD OR WITH 6 INCH DEEP EPOXY ANCHOR BOLTS. ANCHOR BOLT SIZE PER MANUFACTURER RECOMMENDATION.
6. ALL OPENINGS INTO EQUIPMENT SHALL BE SEALED WITH GALVANIZED STEEL PLATE OR SCREEN TO PREVENT ENTRY OF INSECTS AND RODENTS.
7. CAULK ALONG BOTTOM PERIMETER OF EQUIPMENT MOUNTED ON CONCRETE PADS TO PREVENT WATER ENTRY BETWEEN BOTTOM OF ENCLOSURE AND TOP OF CONCRETE SLAB.
8. PROVIDE 12 INCHES OF CLASS 5 GRAVEL DRAINAGE BEDDING IN THE BOTTOM OF ALL BOTTOM CONDUIT ENTRIES TO OPEN CABLE COMPARTMENTS.
9. ALL CONDUCTORS SHALL BE ROUTED TO MAINTAIN ACCESS TO INDICATORS, VALVES, SAMPLE PORTS, SWITCHES, TAP CHANGES, FUSE WELLS, AND OTHER COMPONENTS AND ACCESSORIES REQUIRING OPERATOR ACCESS.
10. PLACE MICARTA NAMEPLATES WITH MINIMUM 3/4" HIGH LETTERS FOR DISTRIBUTION EQUIPMENT SWITCHGEAR, INVERTERS, TRANSFORMERS, ETC.
11. PROVIDE NEMA 4 ENCLOSURE WHERE AVAILABLE FOR EXTERIOR DC AND LV EQUIPMENT. PROVIDE NEMA 3R ENCLOSURES WHERE NEMA 4 IS NOT AVAILABLE.
12. EQUIPMENT SHOULD BE PROTECTED WITH BOLLARDS OR OTHER MEANS WHEN REQUIRED TO UNRESTRICTED VEHICULAR ACCESS..

TRANSFORMERS:

1. TRANSFORMERS SHALL BE SECURELY BOLTED TO THE EQUIPMENT PAD AND MADE LEVEL. ANY GAPS BETWEEN THE PAD AND BASE OF THE TRANSFORMER MUST BE SEALED.
2. PROPER TORQUE SHALL BE APPLIED TO ALL BUSHINGS AS INDICATED.
3. PROPER LABELING REQUIRED FOR: TRANSFORMER, POWER CABLES, HIGH VOLTAGE COMPARTMENT (STATEMENT OF VOLTAGE), AND TRANSFORMER DOORS (DANGER WARNING).
4. NEMA DRILLED LONG BARREL COMPRESSION LUGS TO BE USED FOR THE LOW VOLTAGE WIRE.
5. PENTA-BOLTS ARE TO BE USED ON BOTH SETS OF DOORS.
6. ALL CONDUCTORS SHALL BE ROUTED TO MAINTAIN ACCESS TO INDICATORS, VALVES, SAMPLE PORTS, SWITCHES, TAP CHANGES, FUSE WELLS, AND OTHER COMPONENTS AND ACCESSORIES REQUIRING OPERATOR ACCESS.
7. VERIFY THE FOLLOWING:
   7.1. FACTORY WIRING DIAGRAM IS ACCURATE
   7.2. TRANSFORMER IS LEVEL
   7.3. MEDIUM & LOW VOLTAGE CONDUITS ARE SEPARATED AND UNDER THEIR OWN COMPARTMENT
   7.4. LOW VOLTAGE WIRE ARE ROUTED SO THAT THERE IS ACCESS TO THE OIL DRAIN VALVE AND OIL SAMPLE PORT
   7.5. LOCK OR CONICAL NUTS
   7.6. HARDWARE IS THE PROPER LENGTH
8. PROVIDE 12" OF CLASS 5 GRAVEL DRAINAGE BEDDING UNDER THE GROUND SLEEVE.

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CITY OF PASO ROBLES

CENTENIAL PARK
600 NICKERSON DR.
PASO ROBLES, CA 93446

PROJECT NUMBER: CA-15-1043

SHEET TITLE: MEDIUM VOLTAGE ELECTRICAL NOTES

SHEET SIZE: ARCH "D" 24" X 36" (610 x 914)

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NO.	REVISION	DATE	INIT.
1	MODULE	10-14-16	DRM
2	CITY COMMENTS	11-09-16	DRM

DSA IDENTIFICATION STAMP:

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DRAWN BY:	JW
ENGINEER:	AF
APPROVED BY:	[XXX]

PROJECT PHASE: INITIAL DESIGN

SCALE: [scale]

SHEET NO.: E-002

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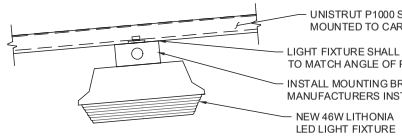
Exhibit B - Development Plans



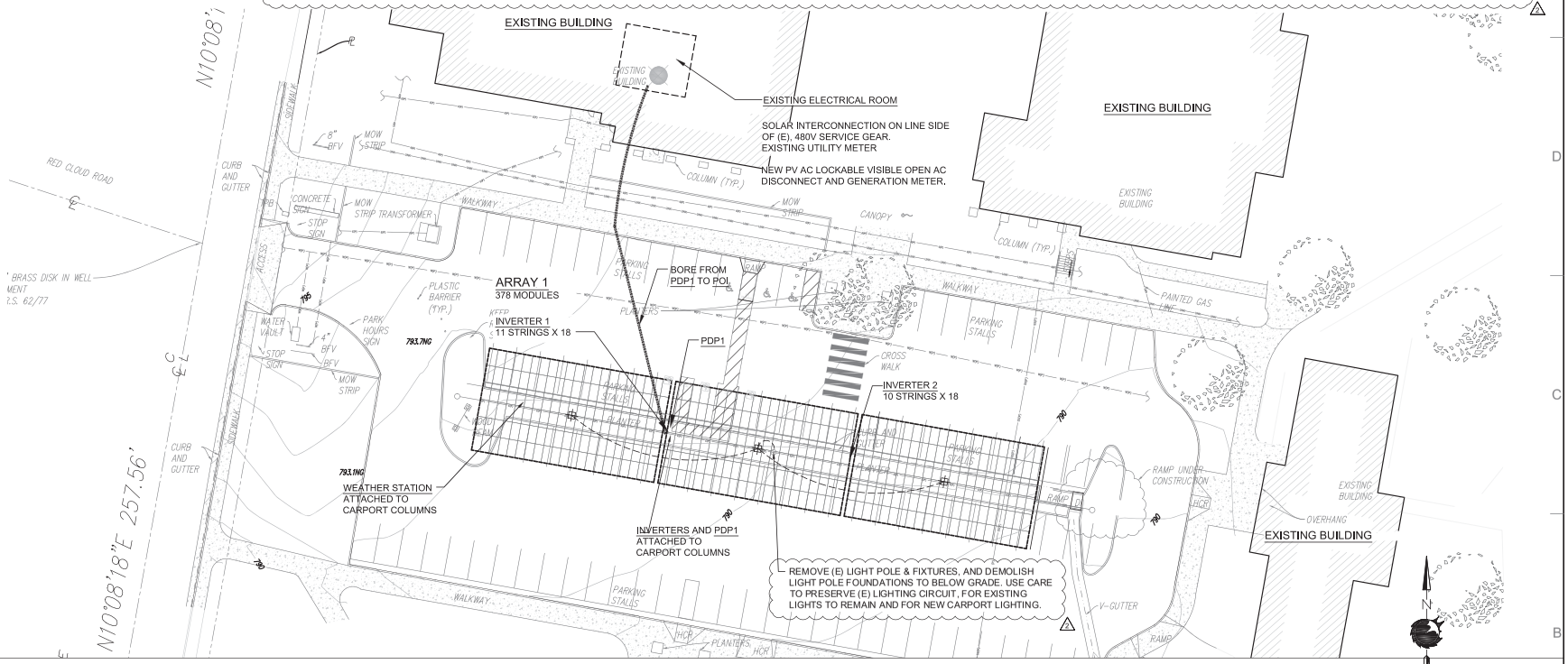
2 LIGHT FIXTURE ATTACHEMENT DETAIL
SCALE: NTS

LIGHTING LOAD SUMMARY

KEY	CIRCUIT	TOTAL CURRENT	VOLTAGE	WIRE SIZE & QTY	BREAKER	EXISTING LOAD (TO BE REMOVED)	NEW LOAD
A	(3) 46W LITHONIA LED LIGHTING W/ MOTION SENSOR DIMMER. PART# DSXSC LED 20C 700 40K T5W MVOLT SRM PIR DMG DWHXD	.57A	277V	(3)10 AWG (CU) THWN-2 (1) 10 AWG (CU) GND	EXISTING CIRCUITS	500 W* (CONTRACTOR TO VERIFY IN FIELD)	138 W
					TOTAL LOAD	(500 W)	138 W

LEGEND

- (N) LIGHTING CONDUIT
- (N) LIGHT FIXTURE
- CARPORT COLUMN



SHEET NOTES

1. ARRAY BLOCKS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL DETERMINE EXACT WIRING BASED ON SITE CONDITIONS.
2. REFER TO GENERAL NOTES AND DC WIRING MANAGEMENT ON SHEET E-001 & E-002 FOR DETAILS.
3. ALL PV PANEL WIRING SHALL BE APPROVED BY SUNEDISON PRIOR TO COMMENCING CONSTRUCTION.
4. CONTRACTOR TO SECURE PV SOURCE CIRCUIT BY INSTALLING P-CLIP AND/OR SUNBUNDLER.
5. ALL EQUIPMENT SHALL BE UL LISTED OR UTILITY GRADE AND APPROVED BY OWNER. THE AHJ HAS FINAL JURISDICTIONAL AUTHORITY ON CODE APPLICATION AND COMPLIANCE.
6. ALL INVERTER WIRING AND GROUNDING METHODS SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDED PRACTICES.
7. EXPOSED NON-CURRENT CARRYING METAL PARTS OF EQUIPMENT AND ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC 250.134 AND 250.136(A).
8. ALL CONDUCTORS ARE COPPER UNLESS OTHERWISE NOTED.

LEGEND

- NEW PERIMETER FENCE
- PV MODULE
- SPARE PV MODULE
- TRENCH/CONDUIT
- CARPORT COLUMN
- INVERTER LOCATION
- PANEL BOARD LOCATION

PROJECT DESCRIPTION

SYSTEM SIZE (DC)	DC STC 126,630KW, DC PTC 115,479KW
SYSTEM SIZE (AC) (CEC)	AC CEC 113,747KW 1
INVERTER	(2) SUNGROW SG60KU-M PV INVERERS
PV MODULE	(378) SUNEDISON SE-F335 EZD-3Y MONO-CRISTALLINE PV MODULE 1
TRANSFORMER	
PROJECT AREA	8 300 SQ.F.
LATITUDE	35.6224° N, -120.6707° W
AZIMUTH	188°
TILT	7°

SYSTEM COMPONENTS

ARRAY	# OF MODULES	INVERTER
1	378	(2) SUNGROW 60kW

LIGHTING NOTES

1. NEW LIGHT FIXTURES TO BE MOUNTED AT A HEIGHT OF APPROX. 12'-6".
2. EXISTING POLE MOUNTED LIGHT FIXTURES SHALL REMAIN, UNLESS OTHERWISE NOTED.
3. RUN LIGHTING CIRCUIT DOWN CARPORT COLUMN IN 1" RMC CONDUIT AND TRANSITION TO 1" PVC SCH40 UNDERGROUND.
4. INSTALL NEW 46W LITHONIA LED LIGHTING TO Z PURLIN OF CARPORT STRUCTURE USING MFG SUPPLIED MOUNTING BRACKET.
5. CONTRACTOR TO VERIFY EXISTING LIGHTING CIRCUIT VOLTAGE, TIMER SWITCHES AND PHOTOMETRIC SENSOR COMPATIBILITY WITH NEW LIGHT FIXTURES.

ENERGY CODE NOTES

1. NEW OUTDOOR LIGHTING SHALL COMPLY WITH 2013 EDITION OF THE CALIFORNIA ENERGY CODE.
2. EXISTING OUTDOOR LIGHTING CONTROL IS EQUIPPED WITH A ASTRONOMICAL TIME CONTROL RELAY, PER ENERGY CODE SECTION 130.2(c)(1), AND SHALL REMAIN.
3. NEW LIGHTS TO BE POWERED BY EXISTING LIGHTING CIRCUIT. EXISTING CIRCUIT IS INDEPENDENT OF OTHER ELECTRIC LOADS, AND IS AUTOMATICALLY CONTROLLED, PER ENERGY CODE SECTION 130.2(c)(2).
4. NEW LIGHT FIXTURES SHALL BE EQUIPPED WITH MOTION SENSORS THAT AUTOMATICALLY DIM THE LIGHTING WHEN THE AREA IS UNOCCUPIED, PER CALIFORNIA ENERGY CODE §130.2(c)(3). 1

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PROJECT NUMBER: CA-15-1043

SHEET TITLE: ELECTRICAL SITE PLAN

SHEET SIZE: ARCH "D" 24" X 36" (610 x 914)

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1	MODULE	10-14-16	DRM
2	CITY COMMENTS	11-09-16	DRM

DSA IDENTIFICATION STAMP:

DATE:	22-06-2016
DRAWN BY:	JW
ENGINEER:	AF
APPROVED BY:	[XXX]

PROJECT PHASE: INITIAL DESIGN

SCALE: 1" = 20'-0"

SHEET NO.: E-101

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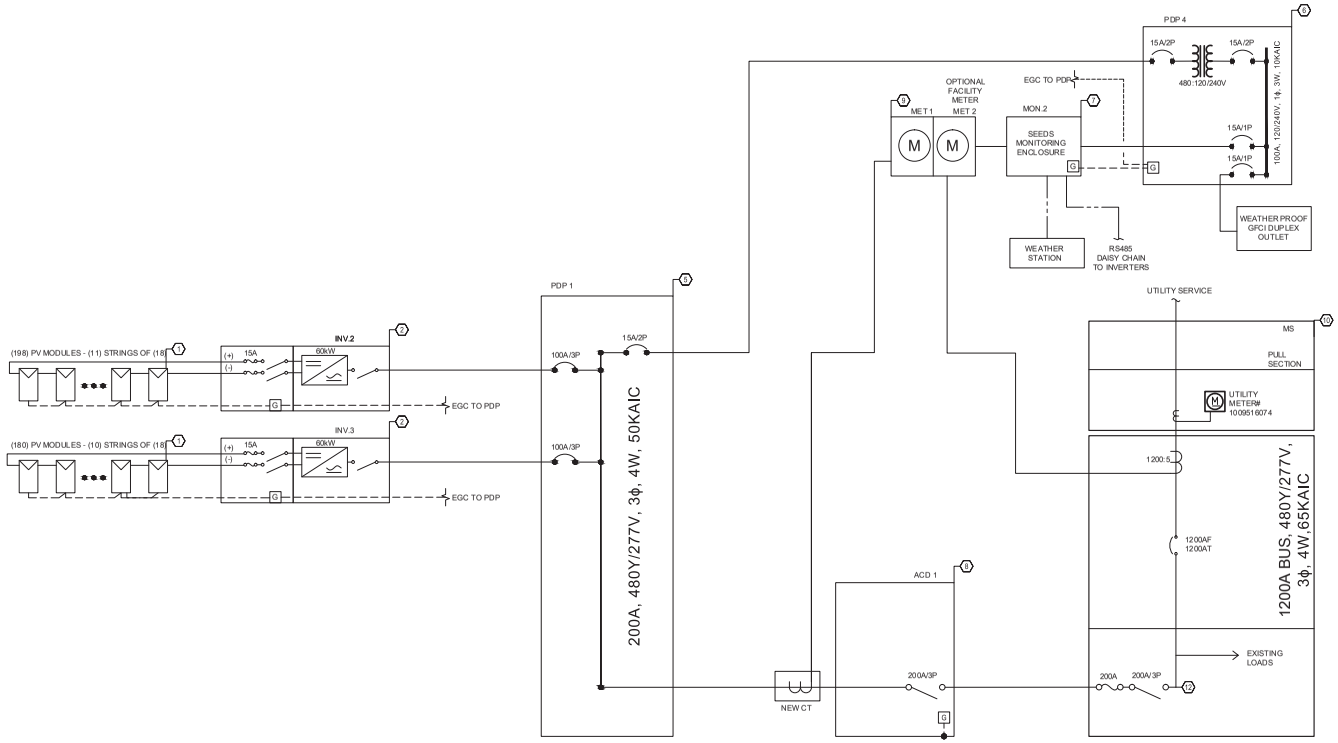
Exhibit B - Development Plans



SYSTEM DESCRIPTION	
MODULE	(378)SUNEDISON F335EZD-3Y MODULES
SYSTEM SIZE (DC)	126.63 kW
SYSTEM SIZE (AC)	120 kW (113.747 kW, CEC)
INVERTER	(2) SUNGROW SG60KU-M 60kW
TRANSFORMER	N/A

PV MODULE SPECIFICATIONS	
MANUFACTURER	SUNEDISON
MODEL NUMBER	F335EZD-3Y
MODULES PER STRING	18
Imp OPERATING CURRENT	8.85 A
Isc SHORT CIRCUIT CURRENT	9.29 A
Vmp OPERATING VOLTAGE	37.9 V
Voc OPEN CIRCUIT VOLTAGE	46.4V
MAX. SYSTEM VOLTAGE	1000V
MAX. SERIES FUSE (OCPD)	15A
MAX. POWER (DC STC)	335 W
NOMINAL POWER (DC PTC)	305.5 W
Voc TEMP COEFFICIENT	-0.33 %/°C

INVERTER SPECIFICATIONS	
MANUFACTURER	SUNGROW
MODEL NAME	SG60KU-M
MAX. DC VOLTAGE RATING	1000 V
MAX DC INPUT CURRENT	192A
MAX. DC Isc	200A
MAX. POWER AT MAX TEMP.	60kV (50C)
NOMINAL AC VOLTAGE	480V
AC VOLTAGE RANGE	422-528V
MAX. BACKFEED AC CURRENT	80A
OCPD RATING	100A
CEC EFFICIENCY (CALIFORNIA ONLY)	98.5%
WIRE CONFIGURATION	5W/3PH
ENCLOSURE RATING	NEMA 4X
HARMONIC DISTORTION	<3%
FREQUENCY RANGE	55-65
GROUNDED CONDUCTOR	FLOATING

MAXIMUM VOLTAGE (NEC 690.7)	
MODULES PER STRING	18
MODULE Voc	46.4
TEMPERATURE COEFFICIENT	-0.33 °C
LOW TEMP. (ASHRAE)	-5.6°C
*MAX. VOLTAGE	919.5

*#MODULES x (VOC + TCOEF x VOC x (TLOW-25))

EQUIPMENT SCHEDULE - KEYNOTES

1	SUNEDISON F335EZD-3Y MODULES INCLUDE 1KV OUTDOOR RATED QUICK CONNECTS FOR MODULE STRING CONNECTIONS. DO NOT REMOVE QUICK CONNECTS. FIELD INSTALLED CONNECTOR MANUFACTURER AND PART NUMBER MUST MATCH EXACTLY THE CONNECTORS SUPPLIED BY THE FACTORY.
2	SUNGROW SG60KU-M, 60KW UTILITY INTERACTIVE PHOTOVOLTAIC INVERTER WITH ARC FAULT DETECTION & GFDI. LISTED TO UL 1741 AND UL 1699B. REFERENCE SUNGROW 60KW INVERTER MANUAL FOR MORE INFORMATION AND INSTALLATION INSTRUCTIONS.

EQUIPMENT SCHEDULE - KEYNOTES (CONT.)

5	A/C COLLECTION PANEL - ACP 200A MLO, 480V, 3PH, 4W, 50kAIC FULLY RATED AC COLLECTION PANEL.
6	POWER DISTRIBUTION PANEL - PDP 1 100A MLO, 600VAC, 1PH WITH 3KVA 480:120V TRANSFORMER.
7	SEED COMMUNICATION SYSTEM COMPONENTS FURNISHED BY SUNEDISON, INSTALLED BY CONTRACTOR. SEE ELECTRICAL INSTRUMENTATION SHEETS FOR MORE DETAILS.
8	PV SYSTEM UTILITY DISCONNECT: ACD 1 200A, 600V, 3PH, AC DISCONNECT, NON-FUSIBLE. PV SYSTEM UTILITY DISCONNECT LOCATED NEAR POCC. RATINGS OVER 1000A SHALL HAVE GROUND FAULT PROTECTION. EATON/CUTLER-HAMMER DH364URK. MOUNT OUTSIDE NEXT TO (E) UTILITY METER
9	SUNEDISON PRODUCTION METER.
10	EXISTING 1200A, 480/277V, 3PH, 4-WIRE WYE SWITCHGEAR. AIC RATING OF 65,000kAIC.

12	LOAD SIDE: LOAD SIDE INTERCONNECTION TO BE PERFORMED AT END OF BUSSING FARTHEST FROM MAIN OCPD UNLESS OTHERWISE NOTED. ALL CIRCUIT BREAKERS UPSTREAM OF INVERTER SHALL BE RATED FOR REVERSE FEED OPERATION. GROUND-FAULT PROTECTION IF PRESENT MUST BE COMPATIBLE WITH REVERSE-FEED OPERATION. CONDUCTOR ROUTING, TERMINATION HARDWARE, AND SHUT-DOWN PROCEDURE SHALL BE SUBMITTED TO SUNEDISON FOR REVIEW/APPROVAL PRIOR TO INSTALLATION. INTERCONNECTION SHALL BE PERFORMED COMPLIANT WITH NEC 705.12(D).

LEGEND:

(X) SEE SHEET E-301 FOR CONDUCTOR TYPE & RACEWAY INFORMATION.

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CITY OF PASO ROBLES

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600 NICKERSON DR.
PASO ROBLES, CA 93446

PROJECT NUMBER: CA-15-1043

SHEET TITLE: SINGLE-LINE DIAGRAM

SHEET SIZE: ARCH "D" 24" X 36" (610 x 914)

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NO.	REVISION	DATE	INIT.
1	MODULE	10-14-16	DRM
2	CITY COMMENTS	11-09-16	DRM

DSA IDENTIFICATION STAMP:

DATE:	22-06-2016
DRAWN BY:	JW
ENGINEER:	AF
APPROVED BY:	[XXX]

PROJECT PHASE: INITIAL DESIGN

SCALE: [scale]

SHEET NO.: E-201

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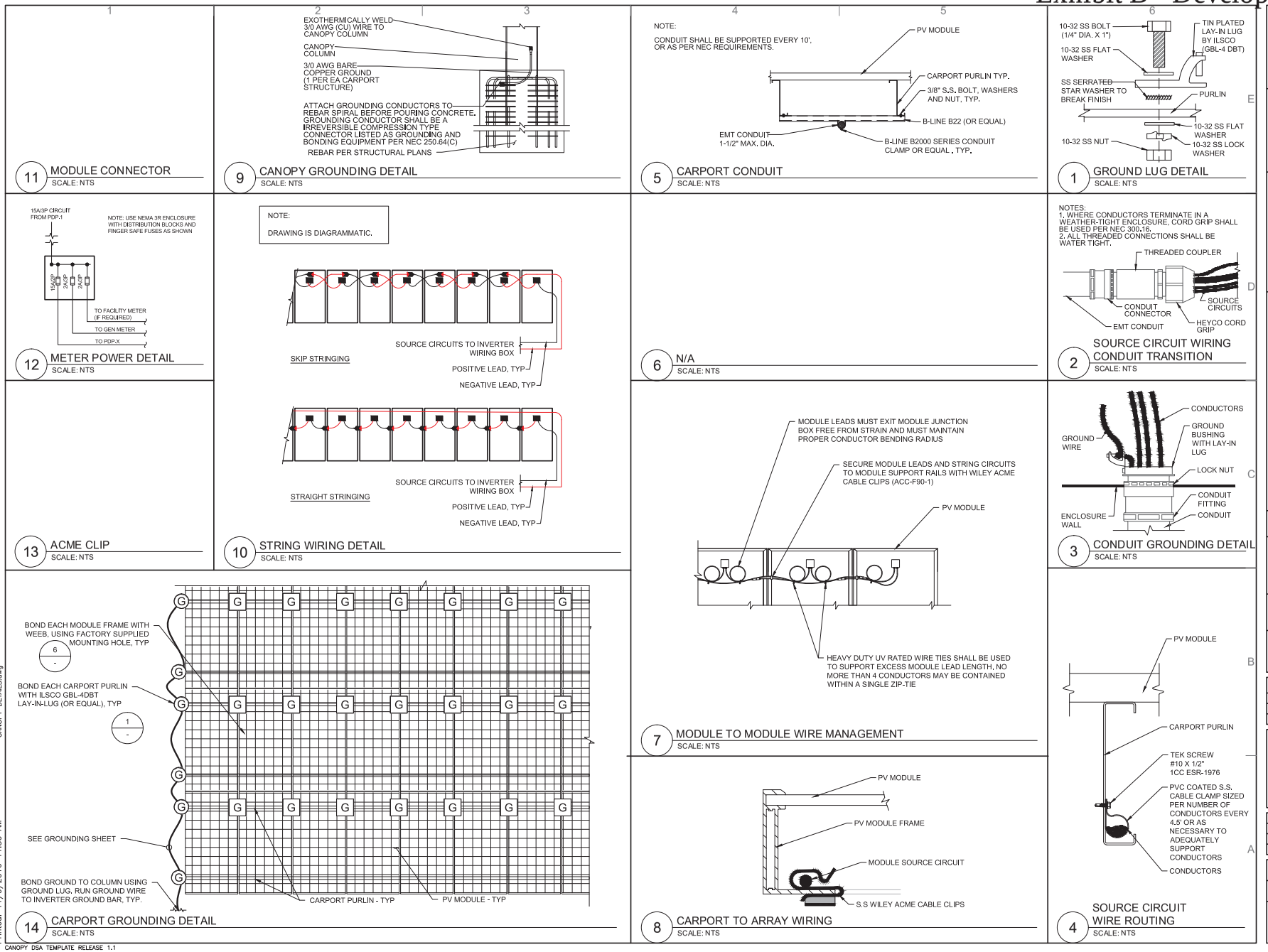
Exhibit B - Development Plans



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CITY OF PASO ROBLES

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600 NICKERSON DR.
PASO ROBLES, CA 93446

PROJECT NUMBER: CA-15-1043

SHEET TITLE: ELECTRICAL NOTES

SHEET SIZE: ARCH "D" 24" X 36" (610 x 914)

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1	MODULE	10-14-16	DRM
2	CITY COMMENTS	11-09-16	DRM

DSA IDENTIFICATION STAMP:

DATE:	22-06-2016
DRAWN BY:	JW
ENGINEER:	AF
APPROVED BY:	[XXX]

PROJECT PHASE: INITIAL DESIGN

SCALE: AS NOTED

SHEET NO.: E-501

c:\Users\ttrayer\Box Sync\dg commercial internal portal\operations\Projects\city of paso robles\ca-15-1043 centennial park\100 ACAD\ca-15-1043 centennial park\5.0 Electrical\E-501 ELECTRICAL CANOPY DETAILS.dwg

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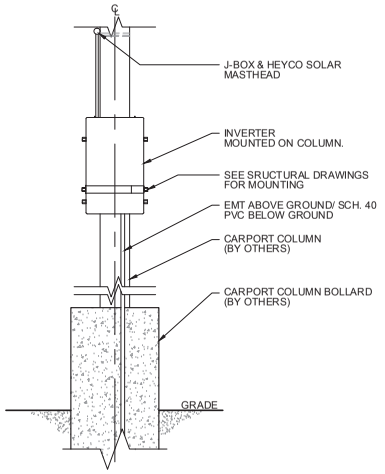
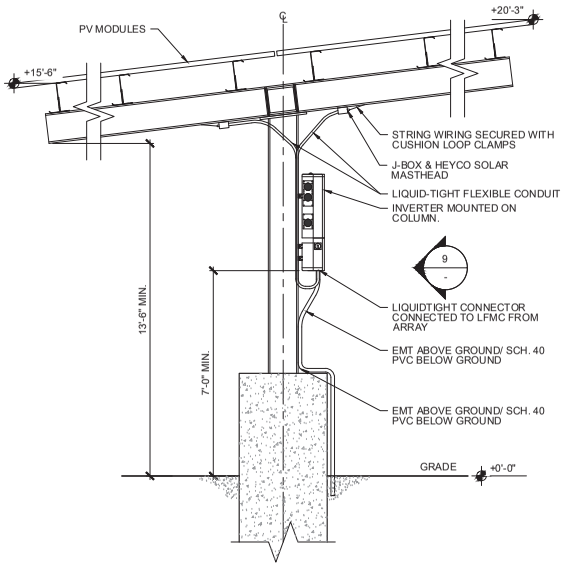
Exhibit B - Development Plans



9 CANOPY INVERTER MOUNTING DETAIL-FRONT
SCALE: NTS



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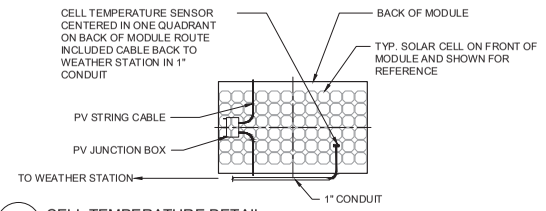
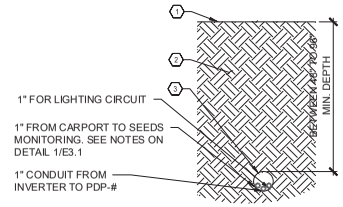
SCALE: NTS



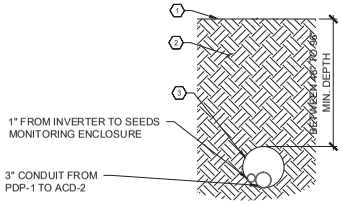
1 CELL TEMPERATURE DETAIL
SCALE: NTS

KEY NOTES	
KEY	NOTES
1	TOP OF FINISHED GRADE
2	UNDISTURBED SUB-GRADE
3	HDPE OR BORE GUARD. SIZE OF CONDUIT TO BE DETERMINED BY BORE CONTRACTOR.
NOTE: SEE SHEET E-301 FOR CONDUIT INFORMATION.	

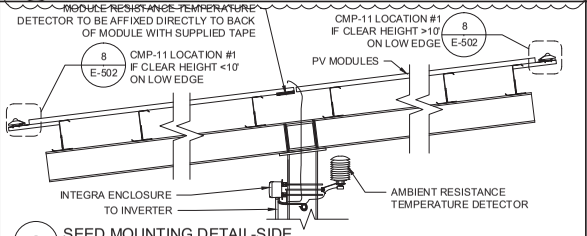


2 BORE DETAIL
SCALE: NTS

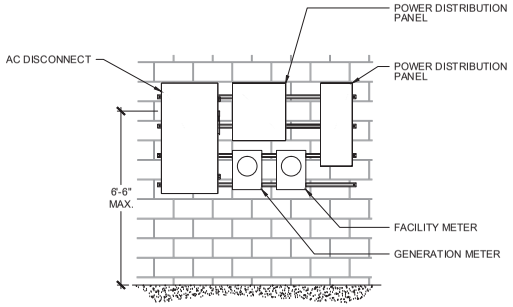
KEY NOTES	
KEY	NOTES
1	TOP OF FINISHED GRADE
2	UNDISTURBED SUB-GRADE
3	HDPE OR BORE GUARD. SIZE OF CONDUIT TO BE DETERMINED BY BORE CONTRACTOR.
NOTE: SEE SHEET E-301 FOR CONDUIT INFORMATION.	



3 BORE DETAIL
SCALE: NTS

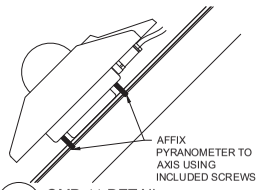


6 SEED MOUNTING DETAIL-SIDE
SCALE: NTS

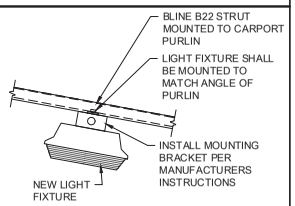


10 (E) WALL EQUIPMENT MOUNTING DETAIL
SCALE: NTS

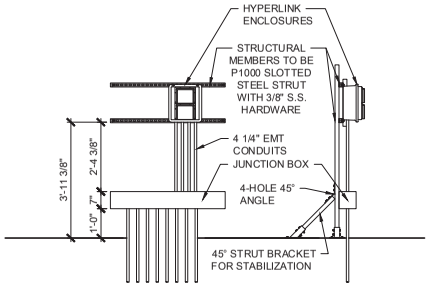
DETAIL NOTE:
WIRES TO FACE NORTH FROM SENSOR



8 CMP-11 DETAIL
SCALE: NTS



7 LIGHT FIXTURE ATTACHMENT DETAIL
SCALE: NTS



4 STRUT ENCLOSURE MOUNTING - FRONT
SCALE: NTS

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PASO ROBLES, CA 93446

PROJECT NUMBER: CA-15-1043

SHEET TITLE: ELECTRICAL CANOPY DETAILS

SHEET SIZE: ARCH "D" 24" X 36" (610 x 914)

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NO.	REVISION	DATE	INIT.
1	MODULE	10-14-16	DRM
2	CITY COMMENTS	11-09-16	DRM

DSA IDENTIFICATION STAMP:

DATE:	22-06-2016
DRAWN BY:	JW
ENGINEER:	AF
APPROVED BY:	[XXX]

PROJECT PHASE: INITIAL DESIGN

SCALE: [scale]

SHEET NO.: E-502

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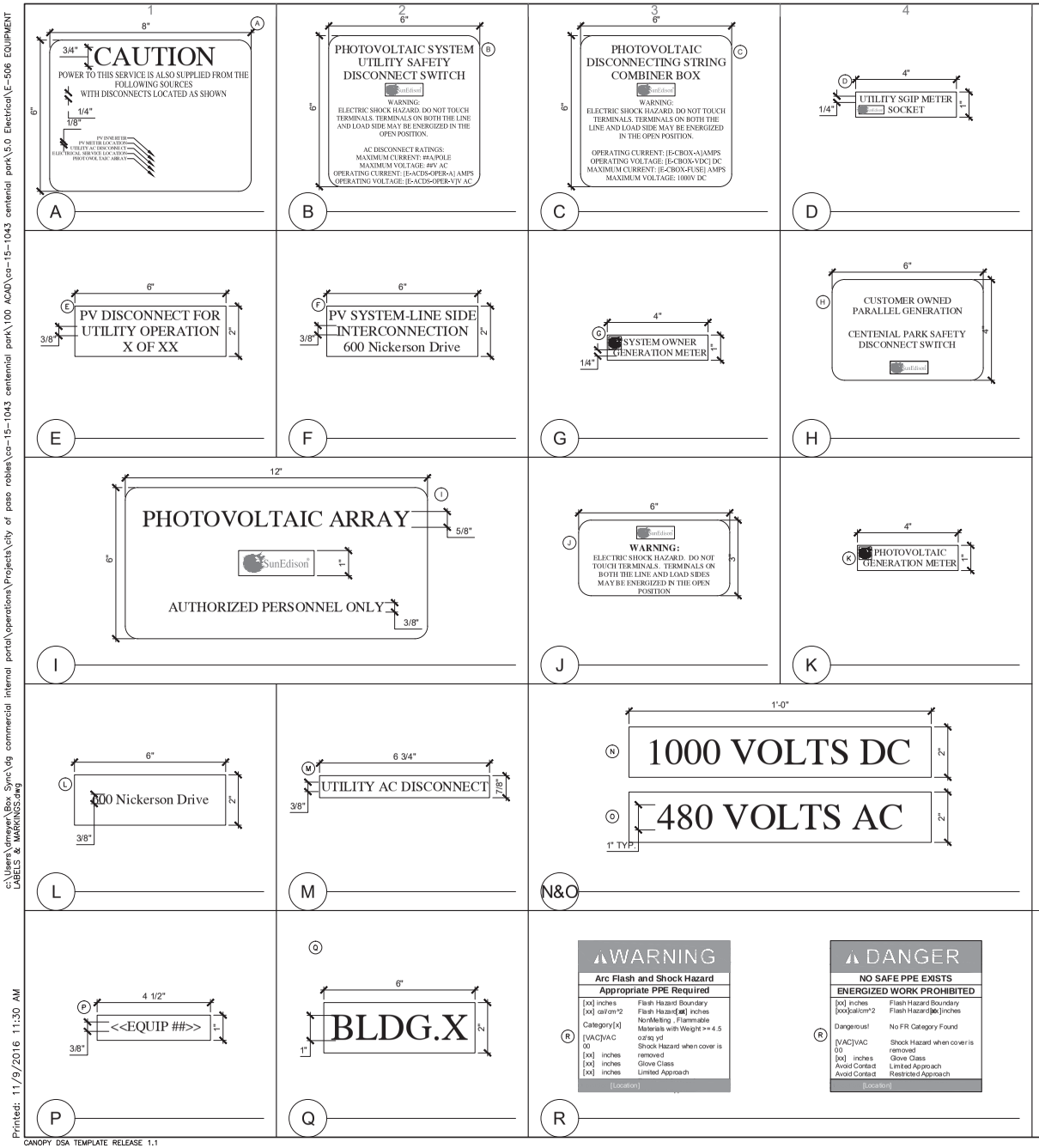
Exhibit B - Development Plans



LABEL SCHEDULE

LABEL ID	DESCRIPTION	PROJECT QUANTITY
A	PROVIDES THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC DISCONNECTING MEANS. THIS PLAQUE SHALL BE APPLIED TO THE MAIN SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC DISCONNECTING MEANS; 1 PER POCC	
B	LABEL FOR UTILITY AC DISCONNECT WITH WARNING AND SYSTEM SPECIFICATIONS, APPLIED TO ALL PHOTOVOLTAIC DISCONNECTS; 1 PER AC DISCONNECT	
C	DISCONNECTING STRING COMBINER BOX GENERIC WARNING LABEL AND COMBINER NUMBER, APPLIED TO ALL PHOTOVOLTAIC DC COMBINER BOXES; 1 PER COMBINER BOX	
D	LABEL FOR REQUIRED SGIP UTILITY METER SOCKET; 1 PER UTILITY METER	
E	LABEL FOR PV DISCONNECT FOR UTILITY OPERATION; 1 PER AC DISCONNECT. PLAQUE LETTERING SHOULD BE BOLD.	
F	LABEL FOR PV SYSTEM-LINE SIDE INTER-CONNECTION; PLAQUES SHOULD BE PLACED ON THE UTILITY CT CABINET. PLAQUE LETTERING SHOULD BE BOLD.	
G	LABEL FOR SYSTEM OWNER'S KWH GENERATION METER; 1 PER OWNER METER	
H	LABEL REQUIRED BY UTILITY TO FIT ON OR NEAR UTILITY METER	
I	LABEL FOR CHAIN LINK SECURITY FENCE; SPACED EVERY 50 FEET AROUND PERIMETER OF ARRAY	
J	WARNING LABEL, PLACE ON MDP NEAR POCC AND ADDITIONAL LOCATIONS AS NEEDED	
K	LABEL FOR SYSTEM OWNER'S KWH GENERATION METER; 1 PER OWNER METER	
L	LABEL FOR BUILDING ADDRESS; 1 PER SYSTEM METER AND ONE TO BE PLACED OUTSIDEOF POCC LOCATION	
M	LABEL FOR UTILITY AC DISCONNECT; 1 PER AC DISCONNECT	
N	CONDUIT RUN FROM COMBINER TO INVERTER. (AS NEEDED)	
O	CONDUIT RUN FROM INVERTER TO POCC. (AS NEEDED)	
P	GENERIC EQUIPMENT NUMBERING LABEL; 1 PER INVERTER, RE-COMBINER (IF PRESENT), AND TRANSFORMER. SEE XXXX FOR LABEL PLACEMENT.	
Q	EQUIPMENT BUILDING NUMBERING LABEL; 1 PER EQUIPMENT PAD	
R	ARC FLASH WARNING LABEL SHALL BE PLACED ON ALL EQUIPMENT AS REQUIRED BY NEC 110.16 INCLUDING, BUT NOT LIMITED TO, COMBINER BOXES, DISCONNECTS, INVERTERS, PANEL BOARDS AND SWITCHBOARDS. TOTAL QUANTITY TO BE DETERMINED BY CONTRACTOR.	
S	AC PANEL COLLECTION BREAKER WARNING	

SHEET NOTES

1. REFER TO SITE PLAN FOR LABEL LOCATIONS.
2. LABELS AND MARKINGS SHALL BE APPLIED TO THE APPROPRIATE COMPONENTS IN ACCORDANCE WITH THE NEC.
3. SOLAR MODULES ARE SUPPLIED FROM THE MANUFACTURER WITH MARKINGS PRE-APPLIED TO MEET THE REQUIREMENTS OF THE NEC.
4. THE INVERTER AND STRING COMBINER BOXES ARE SUPPLIED FROM THE MANUFACTURER WITH THE APPROPRIATE LABELS AND MARKINGS TO MEET THE REQUIREMENTS OF THE NEC.
5. TEXT LABELS WILL BE ETCHED WITH WHITE GRAPHICS ONTO 1/16" RED PLASTIC PLACARDS. THE LABEL WILL BE ATTACHED TO THE APPROPRIATE COMPONENT ENCLOSURES IN CONSPICUOUS PLACES USING TWO PART EPOXY.
6. LABEL "A" WILL BE ETCHED WITH WHITE GRAPHICS ONTO 1/16" RED PLASTIC PLACARD. THE LABEL WILL BE EFFECTIVELY BONDED TO THE EXISTING FACILITY SWITCHBOARD AND THE NEW PHOTOVOLTAIC SYSTEM DISCONNECT.

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PASO ROBLES, CA 93446

PROJECT NUMBER: CA-15-1043

SHEET TITLE: EQUIPMENT LABELS & MARKINGS

SHEET SIZE: ARCH "D" 24" X 36" (610 x 914)

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DATE: 22-06-2016
DRAWN BY: JW
ENGINEER: AF
APPROVED BY: [XXX]

PROJECT PHASE: INITIAL DESIGN

SCALE: [scale]

SHEET NO.: E-506

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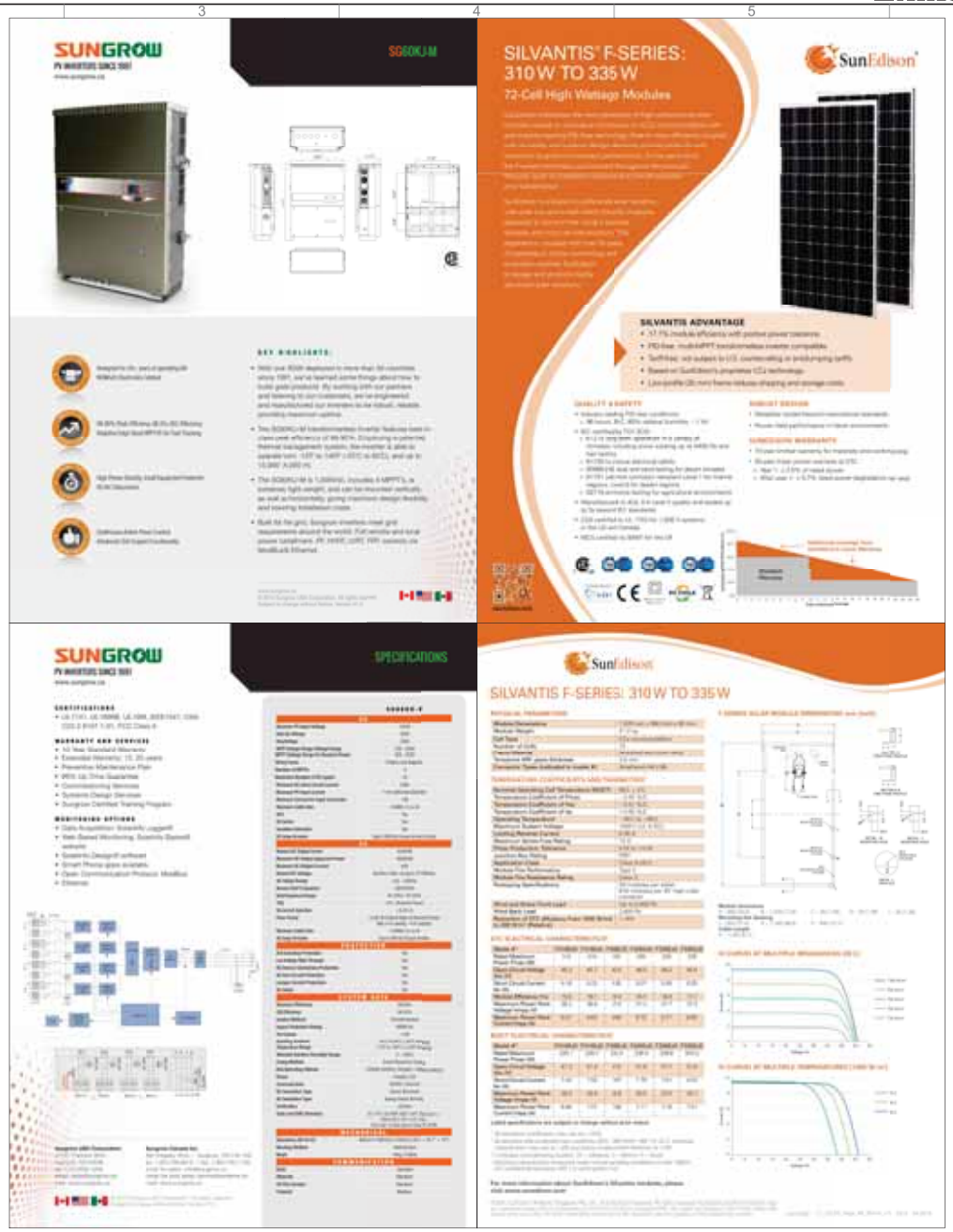

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PASO ROBLES, CA 93446

PROJECT NUMBER:
CA-15-1043

SHEET TITLE:
SPECIFICATION SHEET

SHEET SIZE:
ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

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2	CITY COMMENTS	11-09-16	DRM

DSA IDENTIFICATION STAMP:

DATE:	22-06-2016
DRAWN BY:	JW
ENGINEER:	AF
APPROVED BY:	[XXX]

PROJECT PHASE:
INITIAL DESIGN

SCALE:
[scale]

SHEET NO.:
E-801

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