

SSI Planning Proposal

V-2016-11-09

Project Name	Mt. San Antonio College	
Project Address	1100 N Grand Ave, Walnut, CA 91789	
Project Size	2,206,980	DC
Project Cost /W	\$ 3.01	Per Watt
Project Cost	\$ 6,643,009.80	

Material Cost	Description	Actual Cost
Solar Modules	Canadian Solar	\$ 1,349,004.80
Inverter	SMA or Similar	\$ 302,352.60
Electrical & Wires	Wire, conduit, disconnects, combiner	\$ 468,494.00
Monitoring and DAS		\$ 19,950.00
Sales Tax		\$ 192,582.13

Carport Installation and Design

Carport Design and Installation		\$ 2,663,430.00

Design

Project Management		\$ 50,450.00
Design		\$ 67,608.00

Labor

SSI labor and Construction		\$ 1,219,433.40

Electrical Upgrade-Not Included

Utility Company	N/A	\$ -

Others

1 Yr Maintenance		\$ 32,712.00
Permits, Documentation, Warranty, etc		\$ 149,496.00
Testing and Start up		\$ 20,618.00

Financial Charges

Interest	N/A	\$ -

Profit & Overhead		\$ 106,878.87
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Line Items

**PLANNING PROPOSAL FOR:
Mt San Antonio College (DSA)**



CLIENT: Ronnie Arce
Sunvalley Solar Tech
Phone: 909.598.0618
Email: ron.a@sunvalleysolarinc.com

DATE: November 1, 2016

PARKING CANOPY SPECIFICATIONS, PROJECT SPECIFIC

• Total System Size (DC):	2.21 MW
• Number Of Modules Supported:	6,588 modules
• Module Tilt:	7 degrees
• Module Manufacturer/Model Number:	72 Cell
• Module Wattage:	335 watts
• Module Orientation:	Portrait
• Minimum Structure Clearance (At Drive Aisle):	10 ft
• Bay Size / Column Spacing:	32 ft
• Structure Type	CP-T
• Structure Finish:	All Galvanized
• Assumed Loading (Pending Local Verification):	IBC2012 0 psf snow 110 mph wind

Structure	Aisle or Perimeter	Length (ft)	Width (ft)	Panels/ Length	Panels/ Width	Panels/ Structure	Structure kW	Structure Type
1	Aisle	363	39.0	110	6	660	221.10	Single Slope
2	Aisle	363	39	110	6	660	221.10	Single Slope
3	Aisle	363	39	110	6	660	221.10	Single Slope
4	Aisle	363	39	110	6	660	221.10	Single Slope
5	Aisle	356.5	39	108	6	648	217.08	Single Slope
6	Aisle	330	39	100	6	600	201.00	Single Slope
7	Aisle	317	39	96	6	576	192.96	Single Slope
8	Aisle	238	39	72	6	432	144.72	Single Slope
9	Aisle	284	39	86	6	516	172.86	Single Slope
10	Aisle	238	39	72	6	432	144.72	Single Slope
11	Aisle	238	39	72	6	432	144.72	Single Slope
12	Aisle	172	39	52	6	312	104.52	Single Slope

*All structure layouts reflect RBI DSA Precheck Design

GENERAL RACKING SPECIFICATION

- RBI Solar is **NOT** responsible for PV system design or shading analysis as related to PV system production.
- A signed and sealed geotechnical report is required for final foundation design and submittals to the local building authorities.
- Layouts are subject to customer review and approval. All layouts shall be approved by customer prior to placement for orders of any materials.

MATERIALS & DESIGN ONLY SCOPE OF WORK:

- RBI Solar shall provide drawings signed and sealed by a Professional Engineer registered in the State of CA. Submittal process, special inspections and fees are not included.
- A soils report and underground utility location to be provided by others is required for final foundation design and submittal to building department. Foundations and conditions other than those specified may incur increased cost.
- Posts and top chord (superstructure) for a canopy system.
- Racking system, including all hardware and module mounting hardware.
- All members and hardware are galvanized steel with Columns and Top Beams hot dipped to ASTM A123 and purlins pregalvanized to a G140 minimum. Module hardware is stainless steel.
- All member connections shall be bolted. No on-site welding shall be required.
- Lights, electrical wiring and grounding/bonding material (unless called-out in Pricing section below) are NOT included.
- Sales/Use Tax and Permit Fees, NOT included unless specifically called-out in Pricing section below.
- Freight to site is included. Unloading is by others.

INSTALLATION SCOPE OF WORK:

- Labor for installation is assumed to be ~~non~~-union prevailing wage rates.
- Installation to be performed by RBI Solar installation crews. Any special labor requirements including the use of electricians or unions is not included unless stated in the pricing section below.
- Foundation installation for surface parking lot canopies assumes normal soil conditions and 36" diameter drilled piers up to 11.75' in depth with no interference from underground utilities, water, drilling through rock or collapsible soils needing caissons. Foundations are to be installed to finish at grade.
- Columns to be set directly on concrete piers with chemical anchors or wet set anchor bolts.
- Uninterrupted access to the entire parking area shall be provided. Access is assumed to be at least 12 hours per day and 6 days per week. Restrictions to the working hours and area may result in additional cost.
- Temporary fencing, barricades or storage trailers necessary to secure site are NOT included.
- General Contractor shall provide dumpster or provide for trash removal from site. RBI to put debris in dumpster.
- Module installation is excluded, unless specifically called-out in Pricing section below. Module installation, by RBI Solar, is not available if decking is being installed.
- Disposal of clean soil/spoil created from the foundation installation is included. All permitting, inspection or remediation by others.
- Dumpsters, portolets and temporary electric are NOT included.

GROUNDING AND WIRE MANAGEMENT:

- Grounding hardware for modules and racking is NOT included (unless called-out in Pricing section below).
- Module grounding to be per module manufacturer's installation instructions. RBI Solar's racking is WEEB compatible for certain applications please check with the AHJ and the module manufacturer's installation manual.
- Base design includes prepunched holes in the purlin for wire management.

CUSTOMER RESPONSIBILITIES:

- A signed and sealed geotechnical report for final foundation design and submittals to the local building authorities.
- All special inspections. RBI will help coordinate.
- As built survey including topographic information and underground utility locations

Contract Terms and Conditions:

- Reference Attachment "RBI Solar Terms and Conditions". Available upon request.

PRICING: Pricing, per scope of work as defined above in this proposal:

Permit Fees, Bonds and Special Inspections, if applicable, are not included.			\$\$/Watt
PRICE - MATERIALS & DESIGN:		\$1,003,000	\$0.454
Price includes:			
• Design		• Super Structure & Racking System	
• Stamped Engineered Drawings		• Freight	
• WEEBs for Module Grounding			
Installation of Racking & Concrete Foundations (Prevailing Wage Rates):		\$1,250,400	\$0.567
Price includes material & labor for:			
• Anchor Bolts		• Rebar	
• Equipment Rental		• Drilling	
• Steel Erection		• Concrete	
• Additional Foundation Cost For Foundations Deeper Than 11.75':		\$ 401 /lf	
Add for 36" Raised Piers Foundations:		\$182,900	\$0.083
Estimated Tax:		\$100,300	\$0.045

Due to steel price volatility, this quote is valid for 45 days and subject to reconfirmation thereafter or indexed to CRU.

CONTRACT	<u>Contract Value</u>	<u>Description of Work</u>
PAYMENT	20%	Deposit With Order
TERMS:	40%	Release Of Materials For Fabrication
	20%	First Delivery of Material to Site
	20%	Last Delivery of Material to Site
Labor to be billed on a percentage complete basis		All invoices except the deposit to be Net 30

Thank you for your interest in RBI Solar, if you have any questions about this proposal or RBI Solar, please contact:

Contact: Adam Brescia

Phone: 925-457-3076

Email: abrescia@rbisolar.com

A 20-page promotional booklet of Solar Mounting Systems

from RBI Solar with photos and selected specifications was included with the attachment.

The material is not included herein but is available from Facilities Planning and Management upon request. Please contact facilitiesplanning@mt.sac.edu

Cost Comparison for Mt SAC Solar Project

Source	Cost/Watt	Total Cost	Comments
October 12, 2016 BoT Meeting	\$6.24	\$13,723,645	West Parcel, site improvement included for 2.2 MW
RBI/Sunvalley Solar Inc.	\$3.02	\$ 6,643,009	Car Port System for 2.21 MW
November 2013 Mt SAC presentation	\$6,19	9,280,000	Car Port for 1.5 MW/year 2021 with escalation, no Prop 39 funds
November 2013 Mt SAC presentation	\$3.13	6,250,000	West Parcel with incentives and Prop 39 funds for 2MW

SUNVALLEY
SOLAR

