Solar Project Update

LASD Board of Trustees May 22, 2017

Selection Process for Solar Provider

- District sent RFP to over 2 dozen companies
- 7 responses; short-listed 3 companies to interview
- Conducted interviews on May 9
- Terra Verde (consultant to LASD) followed up interviews with Q & A with top 2 candidates and reference checking
- Based on price and all other factors, District has selected Forefront Power as top choice
- Next Step: Negotiate contract terms

Overview

- Power Purchase Agreement
- Proposed solar arrays would generate 85%+ of annual electricity needed (based on current consumption)
- Mitigations needed to address impacts
 - Parking lots: traffic patterns will change and impact surrounding neighborhoods
 - Tree removal: replacements may be needed
- Outreach needed: parents, neighbors, community
- Other Benefits: Electric charging stations

Costs & Savings

- Rate per kWh: \$0.149
- Cash Equivalent Price: \$6.35M
- Annual Payments: \$337,317 (no escalation)
- Year 6 Purchase Price: \$3.4M (est.)
- Estimated Annual Savings: \$150,000 \$200,000

Source of Funds

- No Measure N funds being used for this project
- District pays utility bill to 3rd party provider
 - Estimated payments less than current bills, so 150 200k estimated savings
 - Payments come from General Fund (general operating budget)





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PROJECT DETAILS	
PROJECT#	CA-17-0067
PORTFOLIO NAME	LOS ALTOS USD
SITE NAME	ALMOND ES
SITE ADDRESS	550 ALMOND AVE LOS ALTOS, CA 94022
LATITUDE/LONGITUDE	37°23'04.36" N 122°06'04.47" W

SYST	EM DETAILS
DC SYSTEM SIZE	134.64 KW
AC SYSTEM SIZE	132.00 KW
CEC-AC SIZE	121.97 KW
PHOTOVO	LTAIC MODULES
MANUFACTURER	TRINA SOLAR
MODEL	TSM-PD14 (II) 340W
TOTAL MODULES	396
IN\	/ERTERS
MANUFACTURER	sungrow
MODEL	SG36KU / SG60KU-M
TOTAL INVERTERS	2/1
R.	ACKING
TYPE	CARPORT
TILT	7°
AZIMUTH	180*

SHEET INFORMATION	
DATE	4/19/2017
DESIGNER	sv
SCALE	1/64" = 1'-0"
SHEET NO.	CL-1



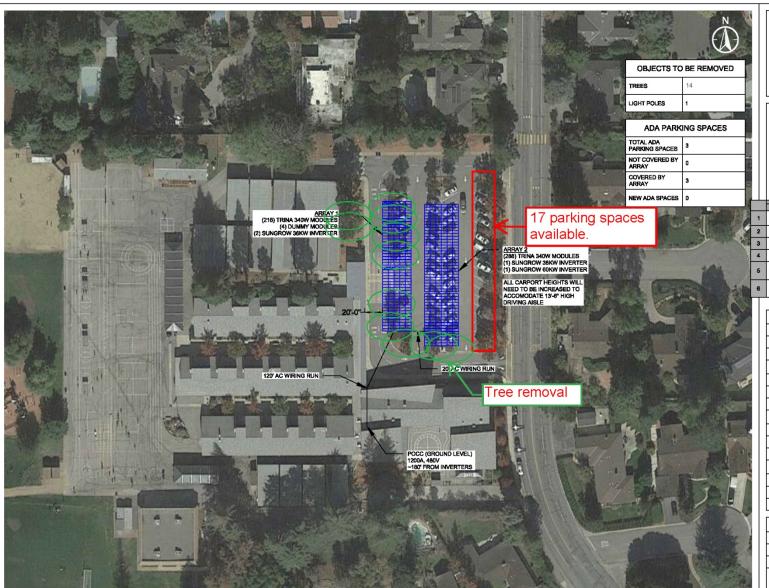


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PROJECT DETAILS	
PROJECT#	CA-17-0073
PORTFOLIO NAME	LOS ALTOS USD
SITE NAME	SPRINGER ES
SITE ADDRESS	1120 ROSE AVE MOUNTAIN VIEW, CA 94040
LATITUDE/LONGITUDE	37*22'18.79* N 122*05'40.33* W

0	C SYSTEM SIZE	134.64 KW
1	C SYSTEM SIZE	132.00 KW
C	EC-AC SIZE	121.97 KW
	PHOTOVO	LTAIC MODULES
N	MANUFACTURER	TRINA SOLAR
N	MODEL	TSM-PD14 (II) 340W
Ţ	OTAL MODULES	395
I	IN	/ERTERS
N	MANUFACTURER	SUNGROW
N	IODEL	SG38KU / SG60KU-M
T	OTAL INVERTERS	2/1
Γ	R	ACKING
7	YPE	CARPORT
7	TLT	7".
A	ZIMUTH	180*

SHEET INFORMATION	
DATE	4/20/2017
DESIGNER	sv
SCALE	1/64" = 1'-0"
SHEET NO.	CL-1



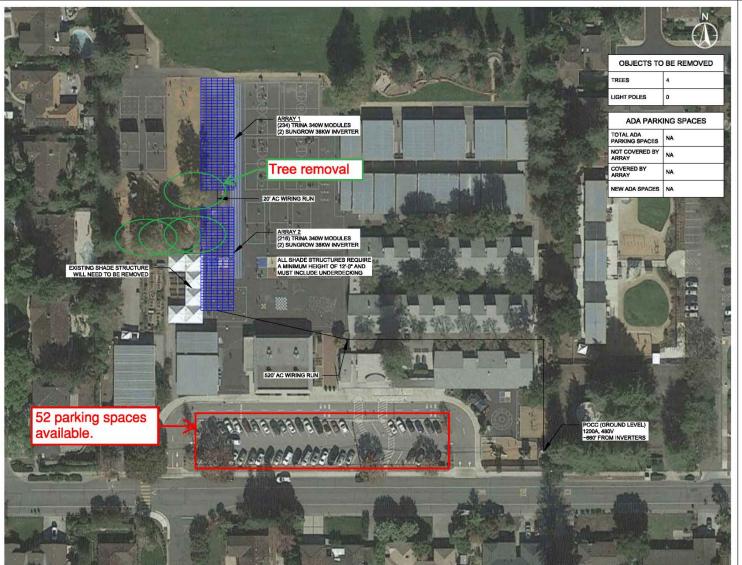


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ASSUMED LARGE ENOUGH TO ACCEPT AC SYSTEM
SIZE.

	Α	
1	PROJECT	DETAILS
2	PROJECT#	CA-17-0072
3	PORTFOLIO NAME	LOS ALTOS USD
4	SITE NAME	SANTA RITA ES
5	SITE ADDRESS	700 LOS ALTOS AVE LOS ALTOS, CA 94022
6	LATITUDE/LONGITUDE	37"23'38.33" N 122°07"22.25" W

SYSTE	M DETAILS
DC SYSTEM SIZE	171.35 KW
AC SYSTEM SIZE	168.00 KW
CEC-AC SIZE	155.24 KW
PHOTOVO	LTAIC MODULES
MANUFACTURER	TRINA SOLAR
MODEL	TSM-PD14 (II) 340W
TOTAL MODULES	504
INV	ERTERS
MANUFACTURER	SUNGROW
MODEL	SG36KU / SG60KU-M
TOTAL INVERTERS	3/1
R/	ACKING
TYPE	CARPORT
TILT	7°
AZIMUTH	270°

SHEET INF	SHEET INFORMATION	
DATE	5/10/2017	
DESIGNER	CRG	
SCALE	1/64" = 1'-0"	
SHEET NO.	CL-1	





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PROJECT DETAILS	
PROJECT#	CA-17-0071
PORTFOLIO NAME	LOS ALTOS USD
SITE NAME	OAK ES
SITE ADDRESS	1501 OAK AVE LOS ALTOS, CA 94024
LATITUDE/LONGITUDE	37°21'27.25" N 122"04'17.78" W

SYST	EM DETAILS
DC SYSTEM SIZE	153.00 KW
AC SYSTEM SIZE	144.00 KW
CEC-AC SIZE	138.60 KW
PHOTOVO	LTAIC MODULES
MANUFACTURER	TRINA SOLAR
MODEL	TSM-PD14 (II) 340W
TOTAL MODULES	450
IN\	/ERTERS
MANUFACTURER	SUNGROW
MODEL	SG36KU
TOTAL INVERTERS	4
R.	ACKING
TYPE	SHADE STRUCTURE
TILT	7°
AZIMUTH	270°

SHEET INFORMATION	
DATE	4/20/2017
DESIGNER	sv
SCALE	1/64" = 1'-0"
SHEET NO.	CL-1





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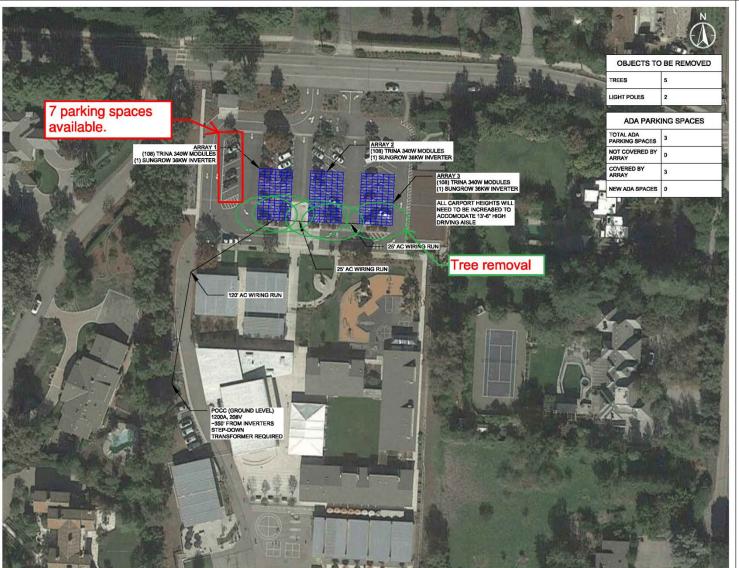
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PROJECT DETAILS	
PROJECT#	CA-17-0070
PORTFOLIO NAME	LOS ALTOS USD
SITE NAME	LOYOLA ES
SITE ADDRESS	770 BERRY AVE LOS ALTOS, CA 94024
LATITUDE/LONGITUDE	37°21'39.03" N 122"05'35.11" W

SYSTEM DETAILS

DC SYSTEM SIZE	146.88 KW
AC SYSTEM SIZE	132.00 KW
CEC-AC SIZE	133.06 KW
PHOTOVO	LTAIC MODULES
MANUFACTURER	TRINA SOLAR
MODEL	TSM-PD14 (II) 340W
TOTAL MODULES	432
INV	ERTERS
MANUFACTURER	SUNGROW
MODEL	SG36KU / SG60KU-M
TOTAL INVERTERS	2/1
R	ACKING
TYPE	CARPORT
TILT	7°
AZIMUTH	180*

SHEET INFORMATION	
DATE	4/21/2017
DESIGNER	sv
SCALE	1/64" = 1'-0"
SHEET NO.	CL-1



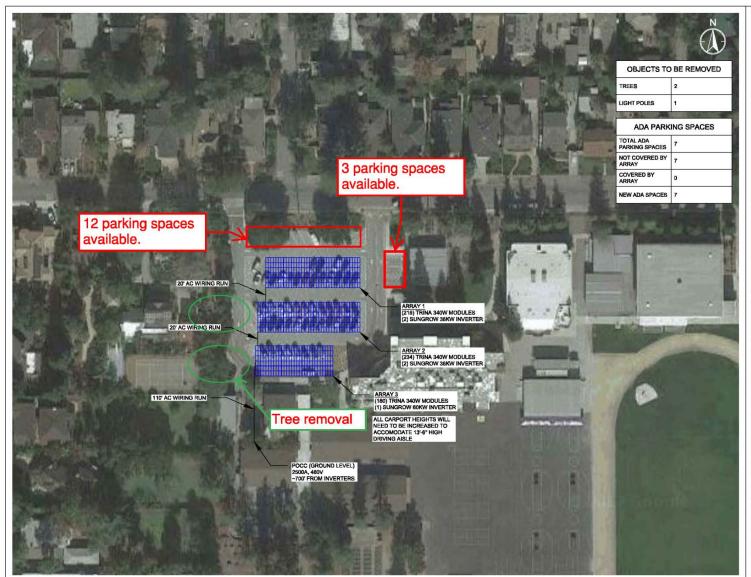


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PROJECT DETAILS	
PROJECT#	CA-17-0069
PORTFOLIO NAME	LOS ALTOS USD
SITE NAME	GARDNER BULLIS ES
SITE ADDRESS	25890 FREMONT RD LOS ALTOS, CA 94022
LATITUDE/LONGITUDE	37°22'53.70" N 122"07'49.41" W

SYST	EM DETAILS
DC SYSTEM SIZE	110.16 KW
AC SYSTEM SIZE	108.00 KW
CEC-AC SIZE	99.80 KW
PHOTOVO	LTAIC MODULES
MANUFACTURER	TRINA SOLAR
MODEL	TSM-PD14 (II) 340W
TOTAL MODULES	324
INV	/ERTERS
MANUFACTURER	sungrow
MODEL	SG36KU
TOTAL INVERTERS	3
R	ACKING
TYPE	CARPORT
TILT	7°
AZIMUTH	93*

SHEE	T INFORMATION
DATE	4/19/2017
DESIGNER	sv
SCALE	1/64" = 1'-0"
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PROJECT DETAILS	
PROJECT#	CA-17-0075
PORTFOLIO NAME	LOS ALTOS USD
SITE NAME	EGAN JHS
SITE ADDRESS	100 WEST PORTOLA AVE LOS ALTOS, CA 94022
LATITUDE/LONGITUDE	37°23'44.82" N 122°07'00.75" W

SYST	EM DETAILS
DC SYSTEM SIZE	214.20 KW
AC SYSTEM SIZE	204.00 KW
CEC-AC SIZE	194.05 KW
PHOTOVO	LTAIC MODULES
MANUFACTURER	TRINA SOLAR
MODEL	TSM-PD14 (II) 340W
TOTAL MODULES	630
IN\	/ERTERS
MANUFACTURER	SUNGROW
MODEL	SG36KU / SG60KU-M
TOTAL INVERTERS	4/1
R	ACKING
TYPE	CARPORT
TILT	7°
AZIMUTH	180*

SHEE	ET INFORMATION
DATE	5/5/2017
DESIGNER	sv
SCALE	1/64" = 1'-0"
SHEET NO.	CL-1





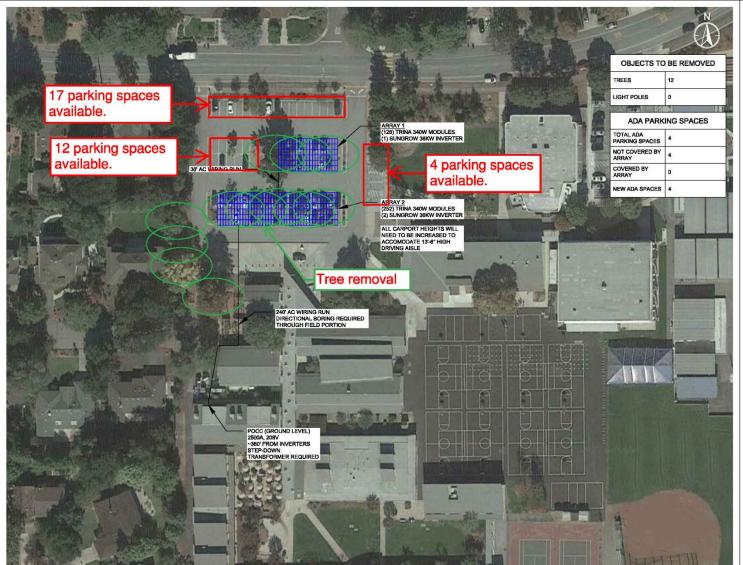
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PROJECT DETAILS	
PROJECT#	CA-17-0068
PORTFOLIO NAME	LOS ALTOS USD
SITE NAME	COVINGTON ES
SITE ADDRESS	201 COVINGTON RD LOS ALTOS, CA 94024
LATITUDE/LONGITUDE	37°22'17.62" N 122"06'25.48" W

SYST	EM DETAILS
DC SYSTEM SIZE	214.20 KW
AC SYSTEM SIZE	204.00 KW
CEC-AC SIZE	194.05 KW
РНОТОУО	LTAIC MODULES
MANUFACTURER	TRINA SOLAR
MODEL	TSM-PD14 (II) 340W
TOTAL MODULES	630
IN\	/ERTERS
MANUFACTURER	SUNGROW
MODEL	SG36KU / SG60KU-M
TOTAL INVERTERS	4/1
R	ACKING
TYPE	CARPORT
TILT	7°
AZIMUTH	180°

SHEET INFORMATION	
DATE	4/19/2017
DESIGNER	sv
SCALE	1/64" = 1'-0"
SHEET NO.	CL-1





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PROJEC	PROJECT DETAILS	
PROJECT#	CA-17-0074	
PORTFOLIO NAME	LOS ALTOS USD	
SITE NAME	BLACH JHS	
SITE ADDRESS	1120 COVINGTON RD LOS ALTOS, CA 94024	
LATITUDE/LONGITUDE	37°21'50.24" N 122°04'58.28" W	

SYSTEM DETAILS		
DC SYSTEM SIZE	128.52 KW	
AC SYSTEM SIZE	108.00 KW	
CEC-AC SIZE	116.43 KW	
РНОТОУО	LTAIC MODULES	
MANUFACTURER	TRINA SOLAR	
MODEL	TSM-PD14 (II) 340W	
TOTAL MODULES	378	
IN\	/ERTERS	
MANUFACTURER	SUNGROW	
MODEL	SG36KU	
TOTAL INVERTERS	3	
R.	ACKING	
TYPE	CARPORT	
TILT	7°	
AZIMUTH	180*	

SHEET INFORMATION	
DATE	4/21/2017
DESIGNER	sv
SCALE	1/64" = 1'-0"
SHEET NO.	CL-1