



# DRAFT

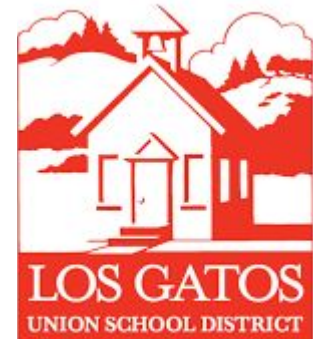
## Los Gatos USD

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Renewable Energy Update

Nate Smith-Ide – ForeFront Power, Manager

November 2020





# Los Gatos USD – Pricing and Savings

Site	PPA Escalator	Solar System Size	Y1 Production (kWh)	% Energy Offset	Current Bill	Year 1 Savings	Year 1 Savings (%)	20 Year Savings
Fisher MS	0%	376	617,283	90%	\$164,942	\$18,159	11%	\$1,189,881
Daves Avenue ES	0%	196	315,188	53%	\$137,831	\$10,146	7%	\$645,162
Blossom Hill ES	0%	266	417,673	73%	\$137,199	\$9,326	7%	\$765,442
Lexington ES	0%	86	130,422	90%	\$47,785	\$1,051	2%	\$164,867
Louise Van Meter ES	0%	141	227,000	65%	\$100,000	\$5,000	5%	\$405,133
<b>Total</b>	<b>0%</b>	<b>1,065</b>	<b>1,718,777</b>	<b>71%</b>	<b>\$588,555</b>	<b>\$44,099</b>	<b>7%</b>	<b>\$3,170,485</b>

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Assumes 2.7% Annual Utility Energy Rate Increase, 5.0% Utility Demand Rate Increase






# Blossom Hill Elementary



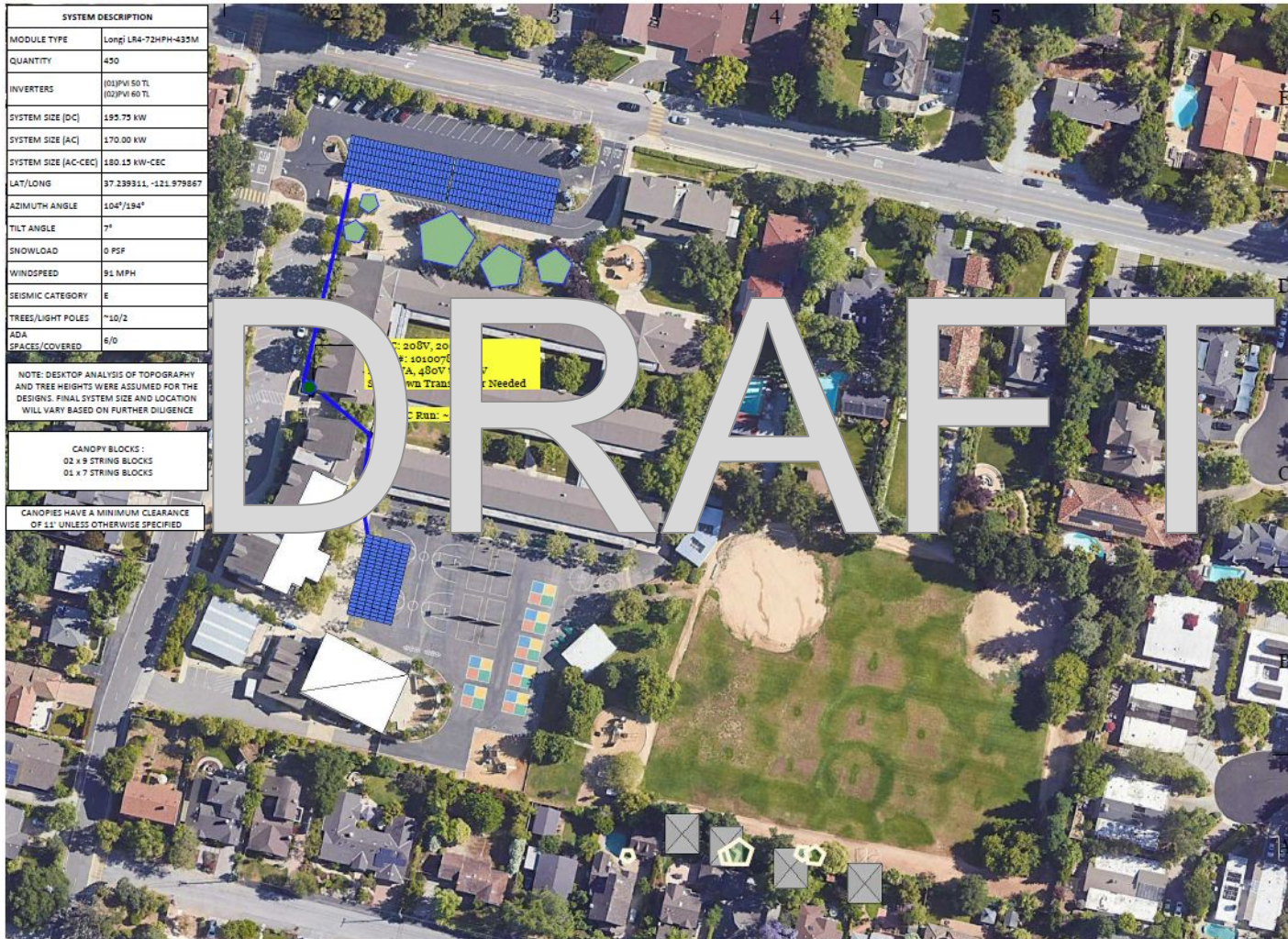
SYSTEM DESCRIPTION	
MODULE TYPE	Long LR4-72HPH-435M
QUANTITY	612
INVERTERS	(02)PV1 50 TL (09)PV1 60 TL
SYSTEM SIZE [DC]	286.22 kW
SYSTEM SIZE [AC]	230.00 kW
SYSTEM SIZE [AC-CEC]	243.01 kW-CEC
LAT/LONG	37.234187, -121.956677
AZIMUTH ANGLE	102°/90°/180°
TILT ANGLE	7°
SNOWLOAD	0 PSF
WINDSPEED	91 MPH
SEISMIC CATEGORY	E
TREES/LIGHT POLES	N/A
ADA SPACES/COVERED	6/0
NOTE: DESKTOP ANALYSIS OF TOPOGRAPHY AND TREE HEIGHTS WERE ASSUMED FOR THE DESIGN. FINAL SYSTEM SIZE AND LOCATION WILL VARY BASED ON FURTHER DILIGENCE	
CANOPY BLOCKS: 03 x 9 STRING BLOCKS 01 x 7 STRING BLOCKS	
CANOPIES HAVE A MINIMUM CLEARANCE OF 11' UNLESS OTHERWISE SPECIFIED	

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STAMP: <div><b>NOT FOR CONSTRUCTION</b></div>																				
<b>Los Gatos USD Blossom Hill ES</b>  16400 Blossom Hill Rd, Los Gatos, CA 95032																				
PROJECT NUMBER: CA-20-0305																				
SHEET TITLE: CONCEPTUAL LAYOUT																				
SHEET SIZE: TABLOID 11" X 17"																				
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DATE: 11 Nov 2020 DRAWN BY: RP ENGINEER: RP APPROVED BY:  PROJECT PHASE: PRELIMINARY DESIGN SCALE: 1" = 80'  SHEET NO: <b>CL-1</b>																				





# Daves Avenue Elementary



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STAMP:			
<b>NOT FOR CONSTRUCTION</b>			
<b>Los Gatos USD Daves Avenue ES</b>			
17770 Daves Ave Los Gatos, CA 95030			
PROJECT NUMBER: CA-20-0306			
SHEET TITLE: CONCEPTUAL LAYOUT			
SHEET SIZE: TABLOID 11" X 17"			
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NO.	REVISION	DATE	INIT.
DATE: 11 Nov. 2020			
DRAWN BY: RP			
ENGINEER: RP			
APPROVED BY:			
PROJECT PHASE: PRELIMINARY DESIGN			
SCALE: 1" = 80'			
SHEET NO: <b>CL-1</b>			





# Fisher Middle

SYSTEM DESCRIPTION	
MODULE TYPE	Longi LR4-72HPH-435M
QUANTITY	864
INVERTERS	107PVI 50 TL
SYSTEM SIZE [DC]	375.84 KW
SYSTEM SIZE [AC]	350.00 KW
SYSTEM SIZE [AC-CEC]	345.88 KW-CEC
LAT/LONG	37.233367, -121.968218
AZIMUTH ANGLE	110°/216°
TYLT ANGLE	7°
SNOWLOAD	0 PSF
WINDSPEED	91 MPH
SEISMIC CATEGORY	E
TREES/LIGHT POLES	N/A
ADA SPACES/COVERED	6/0
NOTE: DESKTOP ANALYSIS OF TOPOGRAPHY AND TREE HEIGHTS WERE ASSUMED FOR THE DESIGNS. FINAL SYSTEM SIZE AND LOCATION WILL VARY BASED ON FURTHER DILIGENCE	
CANOPY BLOCKS: 06 x 7 STRING BLOCKS 01 x 6 STRING BLOCKS	
CANOPIES HAVE A MINIMUM CLEARANCE OF 11' UNLESS OTHERWISE SPECIFIED	



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<b>Los Gatos USD Fisher MS</b>  19165 Fisher Ave, Los Gatos, CA 95032																				
PROJECT NUMBER: CA-20-0307																				
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SHEET SIZE: TABLOID 11" X 17"																				
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PROJECT PHASE: PRELIMINARY DESIGN SCALE: 1" = 80'																				
SHEET NO: <b>CL-1</b>																				






# Van Meter Elementary

SYSTEM DESCRIPTION	
MODULE TYPE	Longi LR4-72HPH-435M
QUANTITY	324
INVERTERS	002PVI 60 TL
SYSTEM SIZE (DC)	140.94 kW
SYSTEM SIZE (AC)	120.00 kW
SYSTEM SIZE (AC-CEC)	129.71 kW-CEC
LAT/LONG	37.231250, -121.967648
AZIMUTH ANGLE	201°
TILT ANGLE	7°
SNOWLOAD	0 PSF
WINDSPEED	91 MPH
SEISMIC CATEGORY	E
TREES/LIGHT POLES	N/A
ADA SPACES/COVERED	N/A
NOTE: DESKTOP ANALYSIS OF TOPOGRAPHY AND TREE HEIGHTS WERE ASSUMED FOR THIS DESIGN. FINAL SYSTEM SIZE AND LOCATION WILL VARY BASED ON FURTHER DILIGENCE.	
CANOPY BLOCKS: 02 x 9 STRING BLOCKS	
CANOPIES HAVE A MINIMUM CLEARANCE OF 13'6" UNLESS OTHERWISE SPECIFIED	



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STAMP: <div><b>NOT FOR CONSTRUCTION</b></div>																
<b>Los Gatos USD</b> <b>Loise Van Meter ES</b>  16445 Los Gatos Blvd, Los Gatos, CA 95032																
PROJECT NUMBER: CA-20-0308																
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NO.	REVISION	DATE	INIT.													
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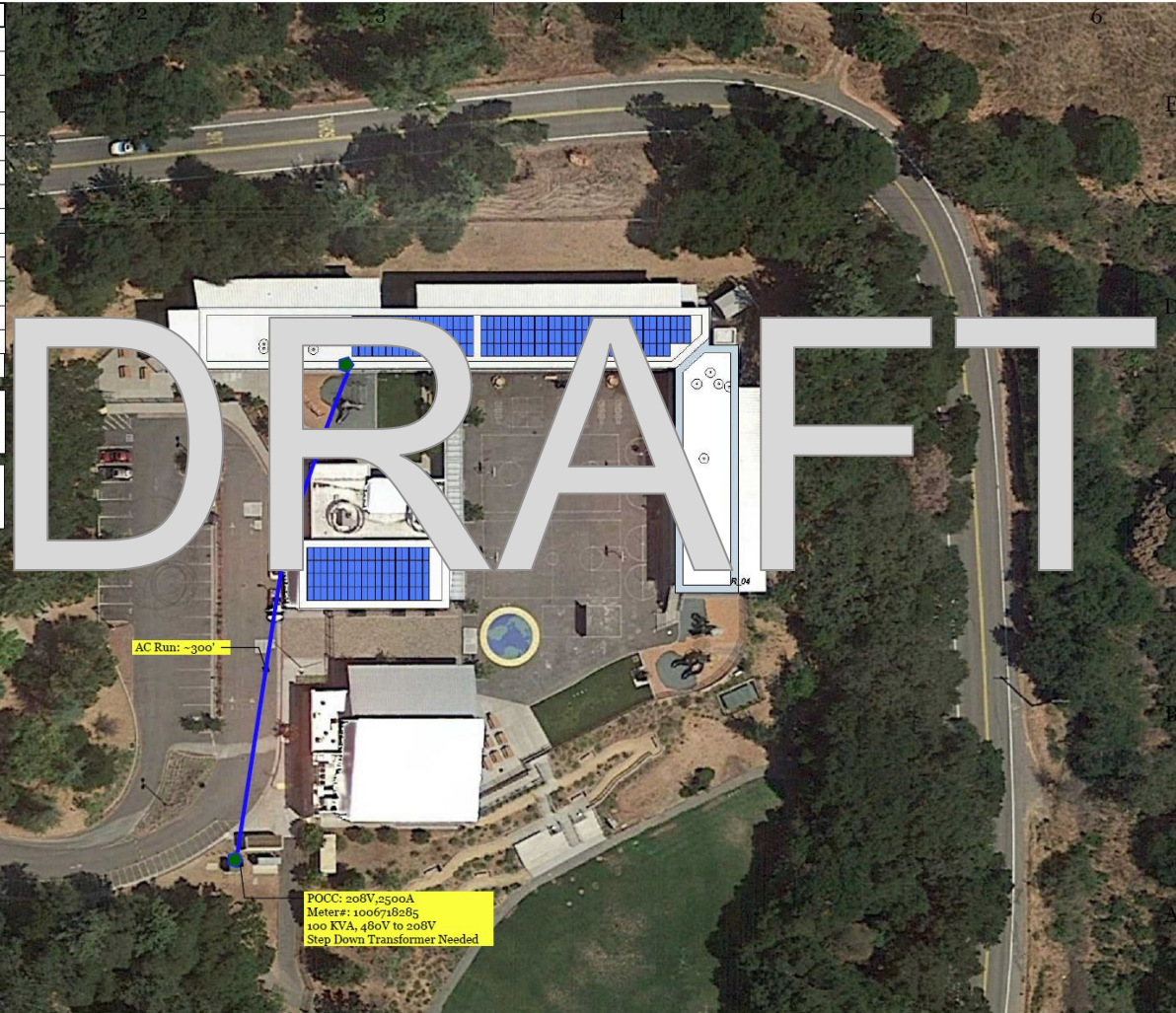


# Lexington Elementary

SYSTEM DESCRIPTION	
MODULE TYPE	Longi LR4-72HPH-435M
QUANTITY	216
INVERTERS	[01]PVI 50 TL [01]PVI 25 TL
SYSTEM SIZE (DC)	93.96 kW
SYSTEM SIZE (AC)	75.00 kW
SYSTEM SIZE (AC-CEC)	86.47 kW-CEC
LAT/LONG	37.179777, -121.990165
AZIMUTH ANGLE	180°
TILT ANGLE	5°
SNOWLOAD	0 PSF
WINDSPEED	91 MPH
SEISMIC CATEGORY	E
TREES/LIGHT POLES	N/A
ADA SPACES/COVERED	N/A

NOTE: DESKTOP ANALYSIS OF TOPOGRAPHY AND TREE HEIGHTS WERE ASSUMED FOR THE DESIGNS. FINAL SYSTEM SIZE AND LOCATION WILL VARY BASED ON FURTHER DILIGENCE

Rooftop System:  
Roof 1: 8 Strings  
Roof 2: 4 Strings



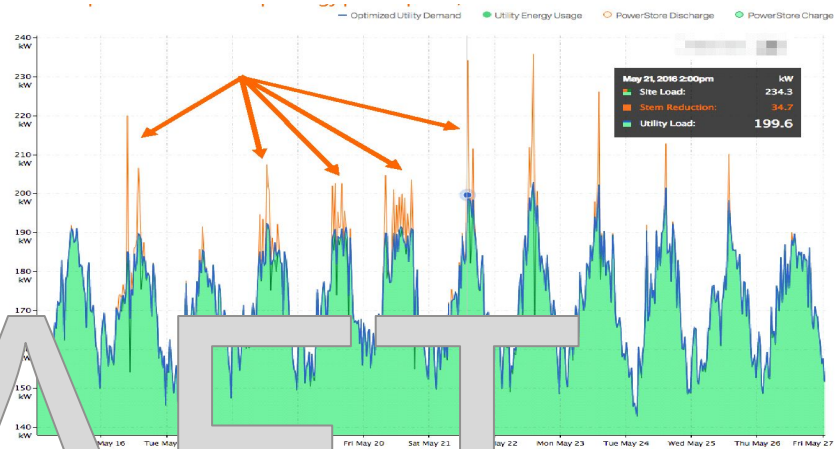
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STAMP: <div><b>NOT FOR CONSTRUCTION</b></div>																				
<b>Los Gatos USD Lexington ES</b>  19700 Old Santa Cruz Hwy Los Gatos, CA 95033																				
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DATE: 28.Sep.2020 DRAWN BY: RP ENGINEER: RP APPROVED BY:																				
PROJECT PHASE: PRELIMINARY DESIGN SCALE: 1" = 50' SHEET NO: <b>CL-1</b>																				



# Backup Power Engineering & Design

- Include Backup Power Study in PPA Rates
- Goals:
  1. Identify Campus Specific Critical Loads
  2. Arrive at Backup Generator Design to Adequately Serve Critical Loads

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# Conclusions & Next Steps

- **Conclusions**

- Community Engagement Layouts
- Backup Power
- Maximized Savings to Reinvest into School Improvements

- **Next Steps**

- Feedback
- Contract Negotiations
- Finalize by December Board





