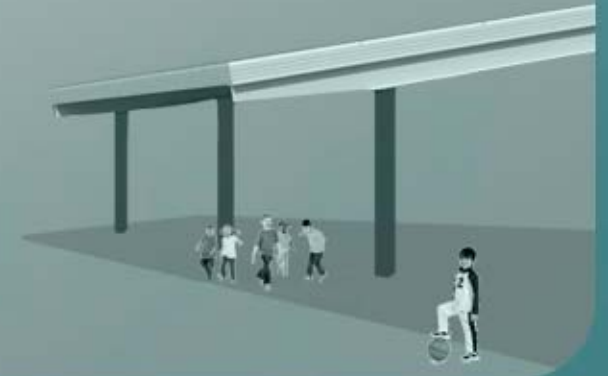




2010 Measure C Facilities Improvement Program

District-wide Photovoltaic Project: Status Report to the Board of Education

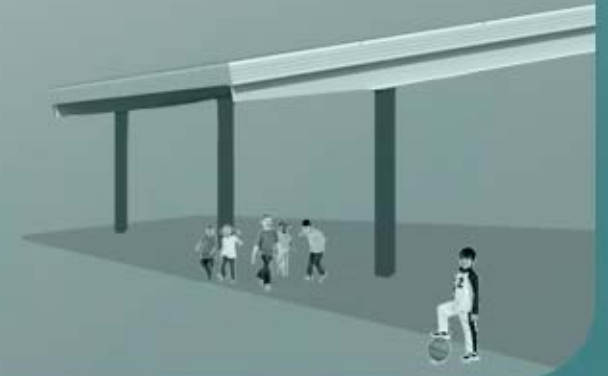
May 10, 2011





Report Focus

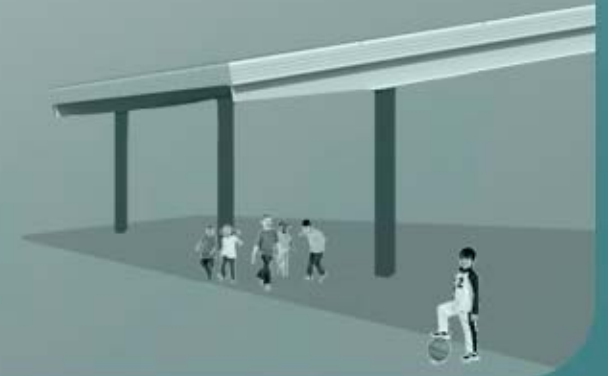
- I. Post Award Project Milestones and Development
- II. Outreach
- III. Challenges/Opportunities
- IV. Updated 30 Year Analysis
- V. 60 day 'look ahead'





Project Development: Milestones

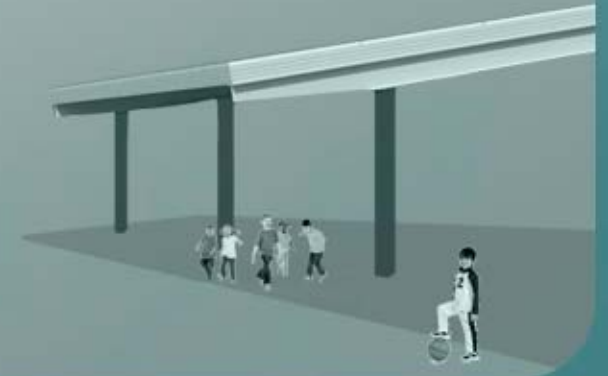
- Title analysis/easement inventory completed for all MDUSD sites
- Topographical surveys completed
- CEQA: All 'Notice of Exemption' documents filed and recorded with County
- All California Geological Survey (CGS) applications submitted
- All Geological/Geohazard work completed at all sites





Project Development: Milestones

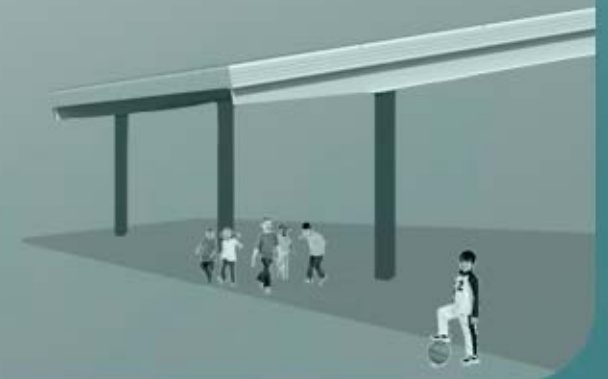
- All Inc. #1 PG & E Interconnection applications completed and submitted
- Underground/Utility surveys completed
- California Solar Initiative (CSI): All milestones satisfied to date
- All Interconnection surveys completed
- All Increment #1 sites have been approved by the CGS





Project Development: Milestones

- The 'PC' design for the SunPower carport /shade structure was approved by the Department of the State Architect (DSA)
- Schematic designs for all Increment #1 and #2 schools have been reviewed and approved by the District (including site administration)
- Construction documents for all Increment #1 schools have been reviewed and approved by the District





Project Development: Milestones

DSA OTC submittal schedule established for
Increment #1 site clusters:

May 19 am): CHS, El Dorado, Westwood

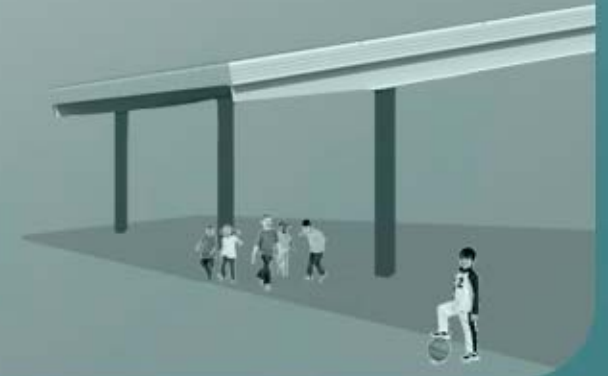
May 19(pm): MDHS, Cambridge

May 24 pm): Dent, Monte Gardens, Sun Ter

May 26(am): Olympic, El Monte, Wren

May 31(am): Delta View, Bel Air

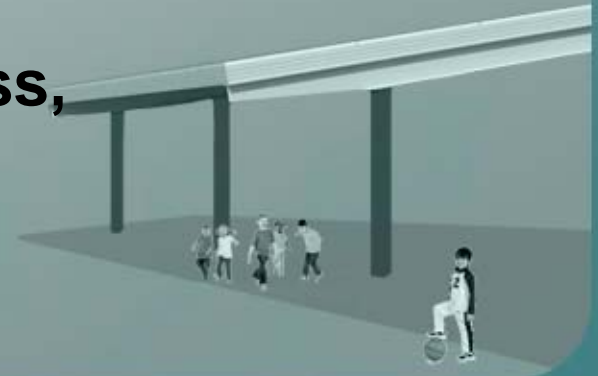
May 31(pm): Rio Vista, RVMS,
Shore Acres





Outreach

- **Site meetings (including staff and parent)**
- **Principal meetings**
- **Brochures (13,500-Inc.#1, 14,700-Inc.#2)**
- **Website**
- **City Managers (and staff) of Concord, Clayton, Martinez, Pleasant Hill, Walnut Creek, representative from Bay point MAC and Federal Glover**
- **P.H. Park and Rec, Ambrose Rec and Park**
- **Site Signage**
- **“Don’t forget” letters for each site:
parking, student drop-off, site access,
contingency plans**



2010 MEASURE C

 RESOURCE CONSERVATION

 TECHNOLOGY

 MECHANICAL

 MODERNIZATION

 OVERSIGHT COMMITTEE

 SCHOOLS

Modernization



2010 Measure C

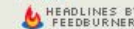
On June 8, 2010 the voters of Mt. Diablo Unified School District approved Measure C, a \$348M General Obligation Bond measure intended to enhance the educational experience of our students now and well into the future. We are grateful for the community support for the work and projects encompassed within this much needed facility improvement initiative and are humbled by this public affirmation of our vision and plan. Mt. Diablo Unified understands its obligation to mindfully proceed as stewards of the public's investment, conducting all business openly and disclosing all plans and accomplishments. This web site was developed to serve as an expandable medium in which to demonstrate said openness and to regularly update the community on the status of the facility improvement program itself.

[Read more...](#)

PROJECT UPDATES

- Measure C Oversight Committee meeting in progress March 17, 2011
- Live update from the field! January 21, 2011

 [Subscribe to this Feed](#)

 HEADLINES BY
FEEDBURNER



[VIEW OUR PROGRAM SCHEDULE](#)



[VIEW CONSTRUCTION BID PAGE](#)

All information on this site is believed to be accurate but is not guaranteed in any way.

Comments? mdusdplanroom@gmail.com

Site Design by Keagan Mize

2010 MEASURE C

-  RESOURCE CONSERVATION
-  TECHNOLOGY
-  MECHANICAL
-  MODERNIZATION
-  OVERSIGHT COMMITTEE
-  SCHOOLS

Bel Air Elementary


663 Canal Rd Bay Point CA 94565

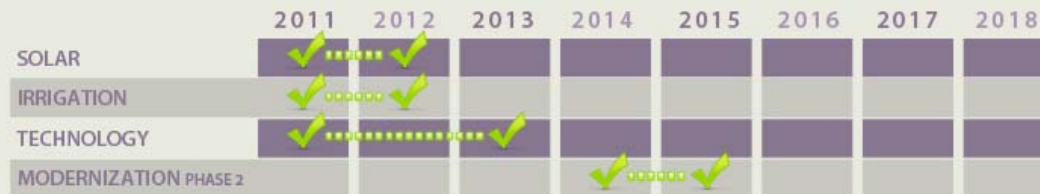


View [Mt Diablo Unified School District Sites](#) in a larger map


Site Attributes

Date Built	1962
Site Acreage	10.4
Buildings	34,253sf
Attendance	605

-  [Solar Project Overview](#)
-  [Solar: FAQ's](#)



Proposed Scope of Work

 Resource Conservation

- Installation of Ground Mounted Solar Structure
- Installation of Centralized Irrigation Management System

 Technology Systems




- Fiber Optic Backbone Installation




Mount Diablo
Unified School
District

Solar Project Overview

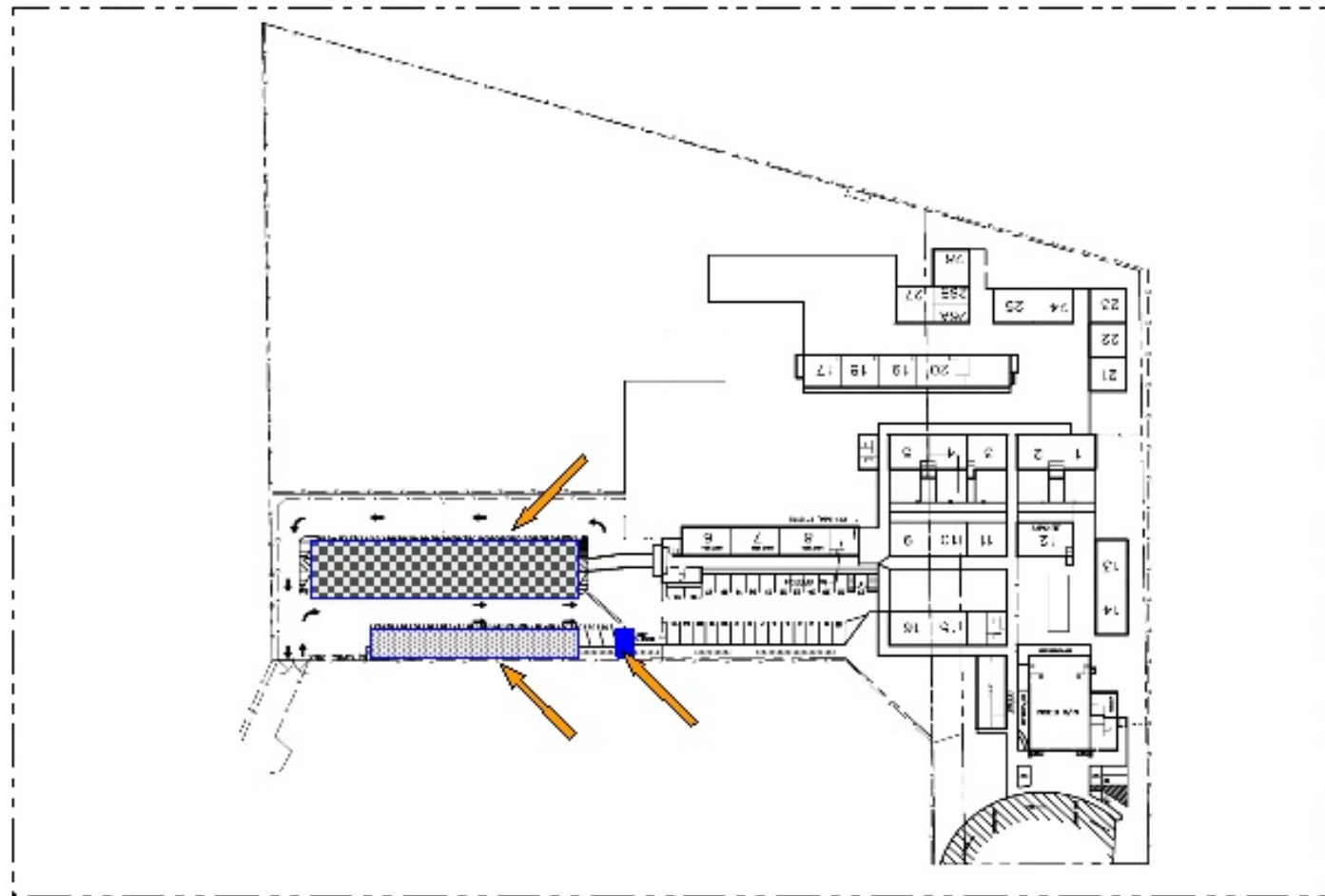
Major Components

-  Electrical Equipment
-  Single Array
-  Double Array

Tentative Site Construction Schedule

-  June to September 2011 (subject to State approval)

Bel Air Elementary



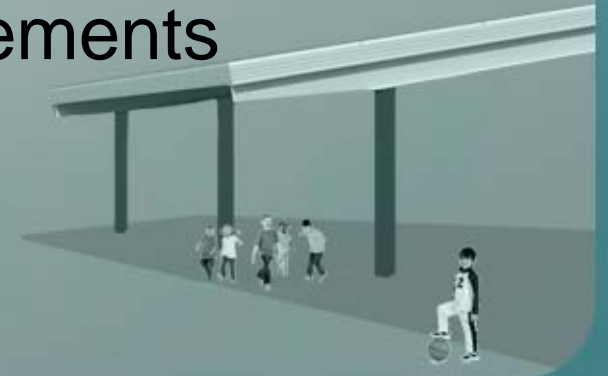
2010 Measure C



Challenges/Opportunities

Limitations on array placement:

- Easements
- Building set-back requirements
- Emergency vehicle access
- Proximity to adjacent residences
- Preservation of hardcourt based programs (e.g. basketball, volleyball, running lanes, ball walls, etc.) and turf based programs.
- Recent DSA advised ADA requirements
- Shade

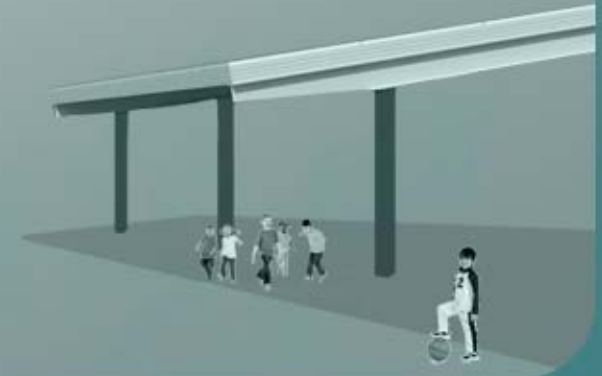






Increment #1: Tree Removal

• Admin/Dent	12
• Bel Air	1
• Cambridge	2
• CHS	1
• Delta View	6
• El Dorado	4
• El Monte	1
• M&O	4
• Monte Gard.	1
• MDHS	12
• Olympic	0
• Rio Vista	7
• RVMS	2
• Shore Acres	6
• Sun Terrace	0
• Westwood	1
• Wren Ave	0
Total	60





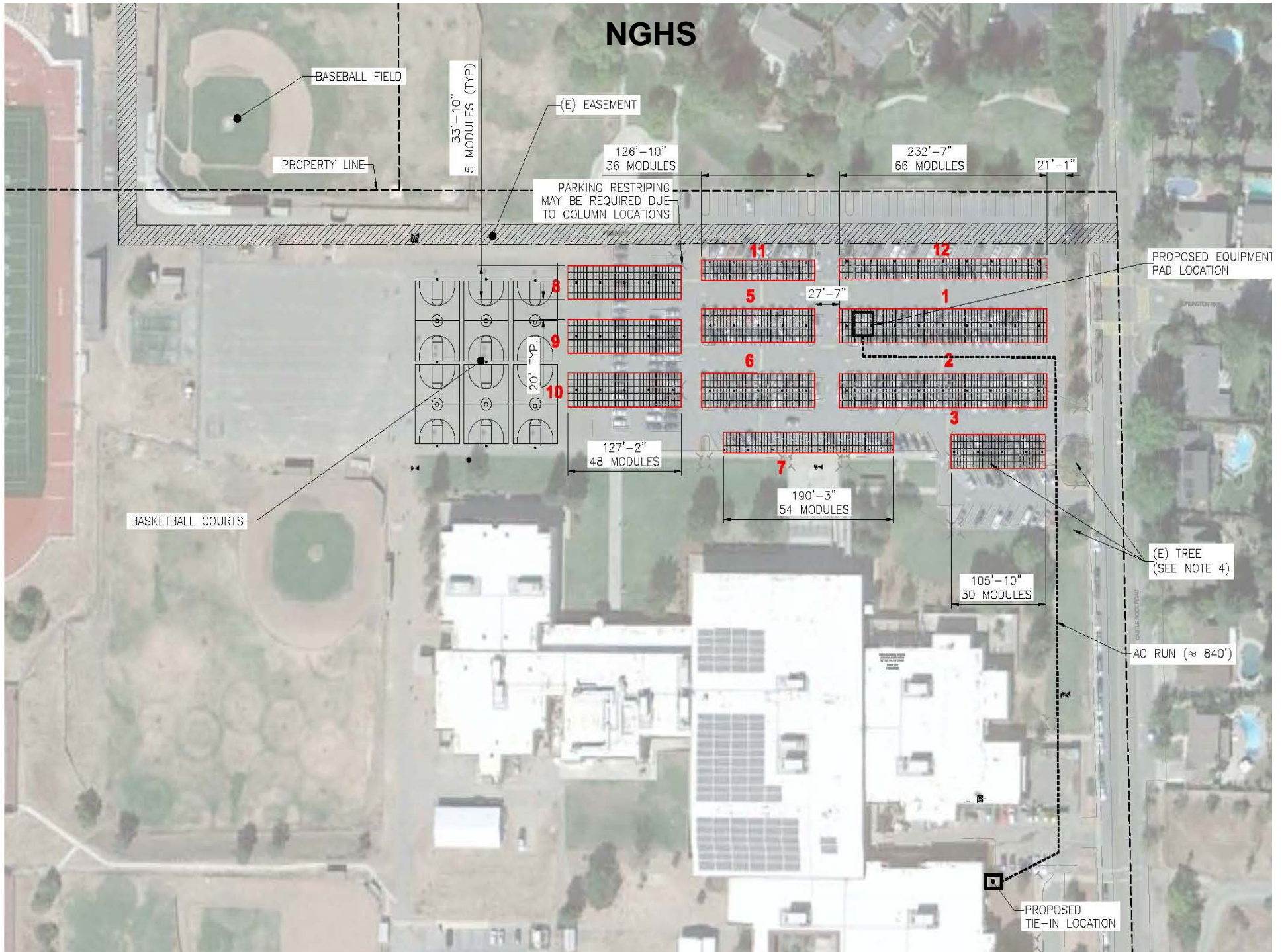
Challenges/Opportunities

Capacity to accommodate the impact of construction

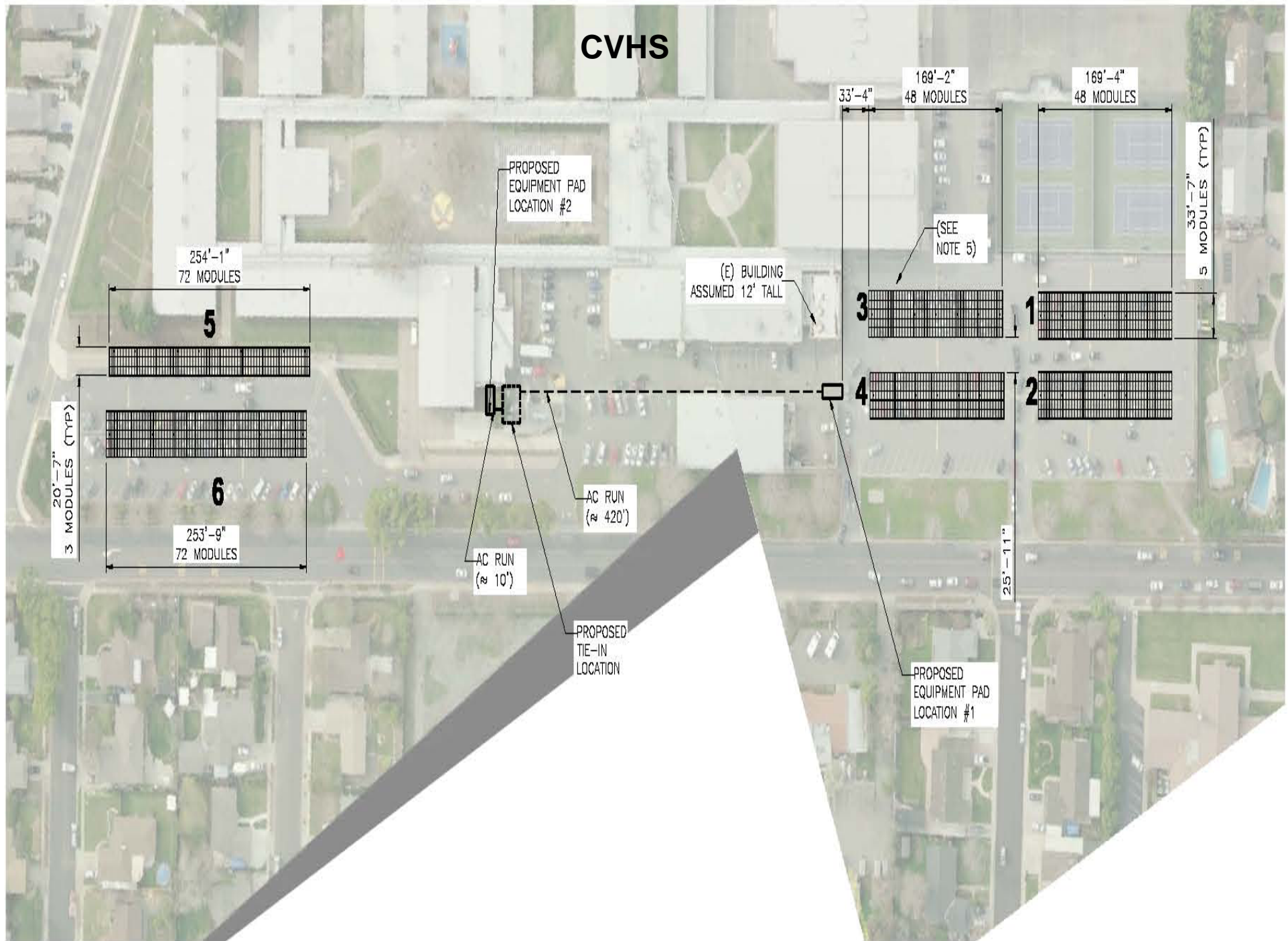
- Parking (staff, student and community)
- Outdoor student activities
- Student Transportation/parent drop-off & pickup
- Extra curricular and 'Civic Center Act' use of facilities
- Before and after school care



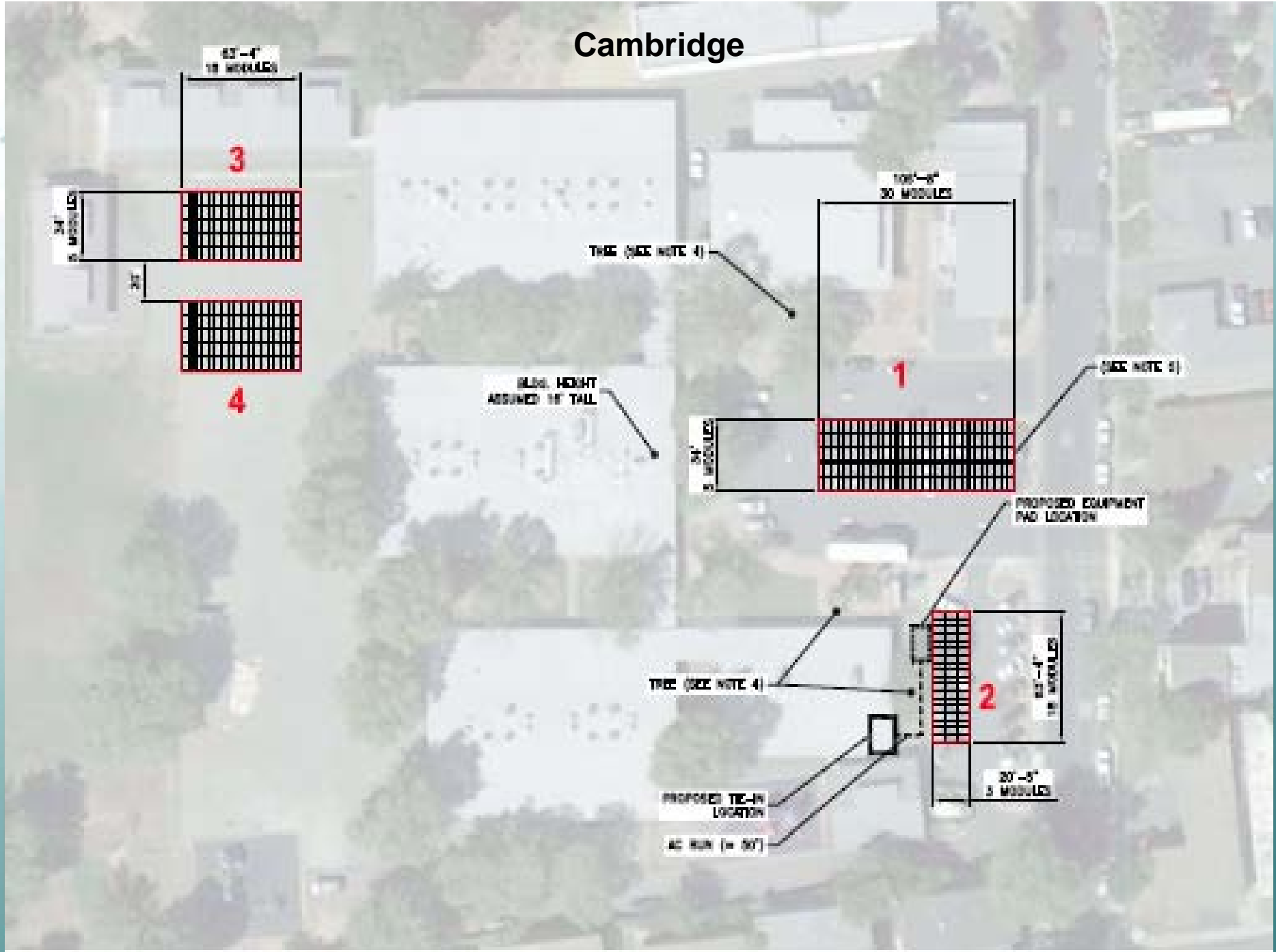
NGHS



CVHS



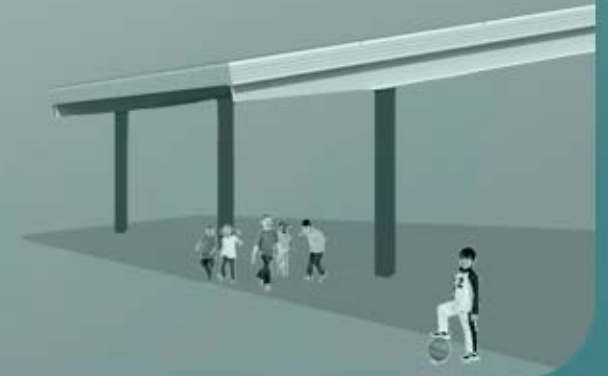
Cambridge





Challenges/Opportunities

- Acceleration of construction on CVHS, NGHS, YVHS and CPHS
- Acceleration of Cambridge EI
- Aggressively pursue potential incorporation of “S-5” roof installations on existing ‘SMART’ buildings and prototypicals

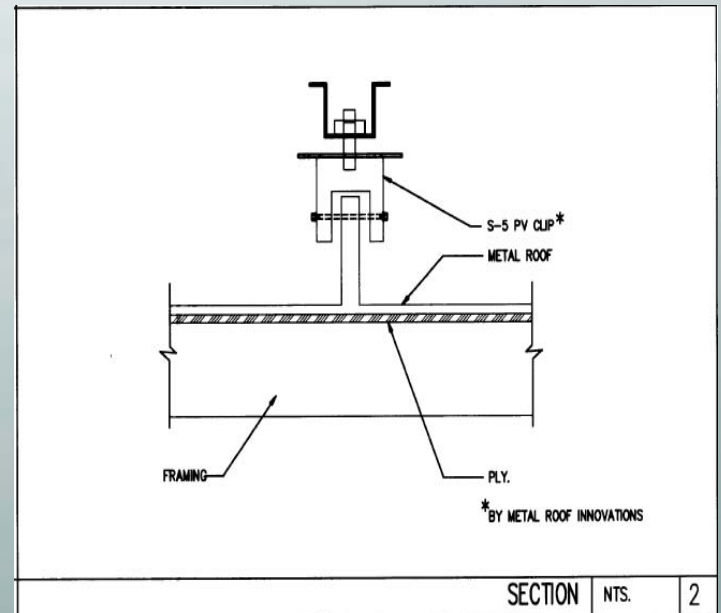
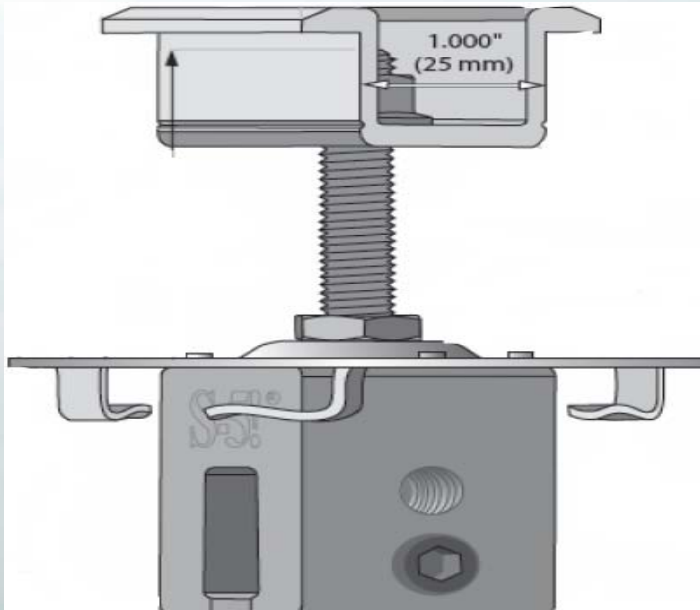


Solar on New Smart Classroom



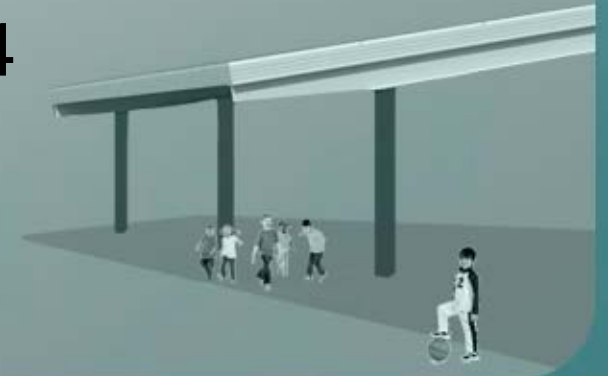
S-5 PV Kit

(by Metal Roof Innovations, Ltd.)



Potential S-5 Sites

<u>Site</u>	<u>S-5 kWp</u>
Meadow Homes(3)	117.72
Hidden Valley(3)	51.01
M.D. El (2)	74.56
Highlands (2)	39.24
P.H. El(3)	62.78
Seq. El(3)	35.32
Valhalla(3)	23.54



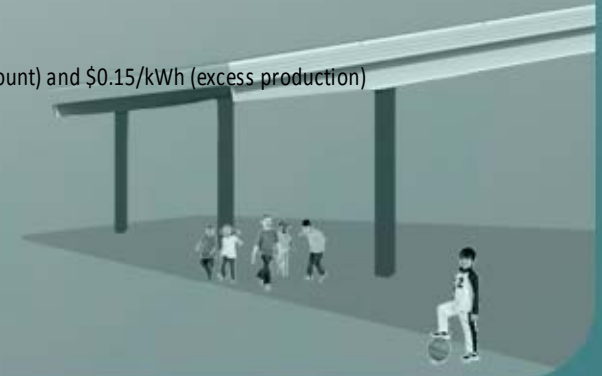
Comparison of Original Proposal/Contract and Inc 1 Changes

30-Year Project Analysis Period

Line Item	Original Proposal/Contract		March 2011 Update		May 2011 Update		Difference Between May Update and Contract	
	Inc 1	Total	Inc 1	Total	Inc 1	Total	Inc 1	Total
Baseline - without project								
1 District Utility Costs w/o Solar	\$ 103,666,866	\$ 295,606,721	\$ 116,462,973	\$ 308,402,828	\$ 116,462,973	\$ 308,402,828	\$ 12,796,107	\$ 12,796,107
Expenses								
2 District Utility Costs w/ Solar	\$ 44,916,040	\$ 119,225,831	\$ 48,730,474	\$ 123,040,264	\$ 48,730,474	\$ 123,040,264	\$ 3,814,433	\$ 3,814,433
3 Capital Costs	\$ 21,948,384	\$ 67,404,796	\$ 24,177,911	\$ 70,252,801	\$ 24,177,911	\$ 70,252,801	\$ 2,229,527	\$ 2,848,005
4 Sub-total Expenses	\$ 66,864,424	\$ 186,630,627	\$ 72,908,384	\$ 193,293,065	\$ 72,908,384	\$ 193,293,065	\$ 6,043,960	\$ 6,662,439
Savings and Revenues								
5 Utility Bill Savings	\$ 58,750,826	\$ 176,380,890	\$ 67,732,499	\$ 185,362,564	\$ 67,732,499	\$ 185,362,564	\$ 8,981,674	\$ 8,981,674
6 CSI Revenues	\$ 5,259,479	\$ 16,150,815	\$ 5,380,905	\$ 16,523,690	\$ 5,377,610	\$ 15,631,382	\$ 118,132	\$ (519,432)
7 Sub-total Savings and Revenues	\$ 64,010,305	\$ 192,531,705	\$ 73,113,404	\$ 201,886,254	\$ 73,110,110	\$ 200,993,946	\$ 9,099,805	\$ 8,462,241
Net Benefits								
8 Net Savings w/o Capital Costs	\$ 64,010,305	\$ 192,531,705	\$ 73,113,404	\$ 201,886,254	\$ 73,110,110	\$ 200,993,946	\$ 9,099,805	\$ 8,462,241
9 Net Savings w/ Capital Costs	\$ 42,061,921	\$ 125,126,909	\$ 48,935,494	\$ 131,633,453	\$ 48,932,199	\$ 130,741,145	\$ 6,870,278	\$ 5,614,236

Notes

- Costs expressed as 30-year nominal totals
- Key assumptions: annual utility escalation rate = 4.47%, annual District load growth = 2%, CSI incentive = \$0.19/kWh (reservation amount) and \$0.15/kWh (excess production)





60 day 'look ahead'

- Compete review and approval of Increment #2 construction drawings
- Complete preliminary Schematic drawings for Increment #3 sites
- CGS approval of Increment #2 sites
- DSA approval of Increment #2 sites
- Begin construction on Increment #1 sites

