

Measure G Facilities Projects Update and Solar Workshop

CJ KNOWLAND, DIRECTOR OF FACILITIES, MAINTENANCE, OPERATIONS, AND TRANSPORTATION

NANCY C. NIEN, PH.D., ASSISTANT SUPERINTENDENT OF BUSINESS JULY 14, 2020

Measure G Facilities Project Update

COVID-19 Safety Measures on Construction Projects

Each Contractor has submitted a COVID-19 Safety Plan that has been reviewed and approved by the District.

Safety Measures

- Daily temperature monitoring
- Face mask requirements when social distancing is not possible
- Virtual meetings and document reviews
- Social distancing in office spaces for inspectors, managers, supervisors, and other administrative staff

Los Alamitos High School Multistory STEM Building

Underground utility installation is in progress.

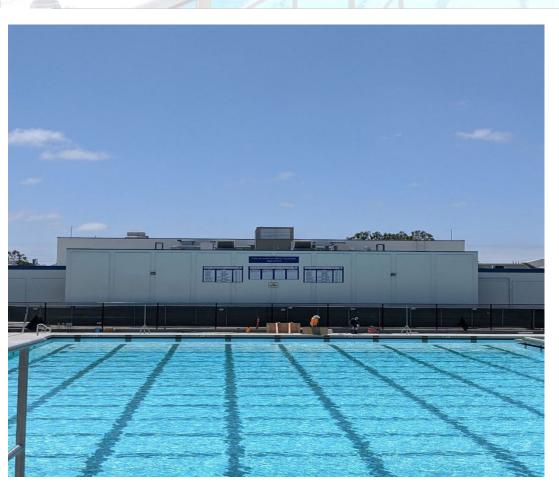
 Connection fees are being finalized and approved for the City of Los Alamitos and Golden State Water.

Soil stabilization construction activities are in progress.

- Approximately \$300,000 Construction Allowance Request was received from the Contractor utilizing an aggregate base installation.
- The District proposed an alternate concrete soil mixing method and was able to achieve greater soils stability for a total of approximately \$60,000, resulting in a cost savings for the District.



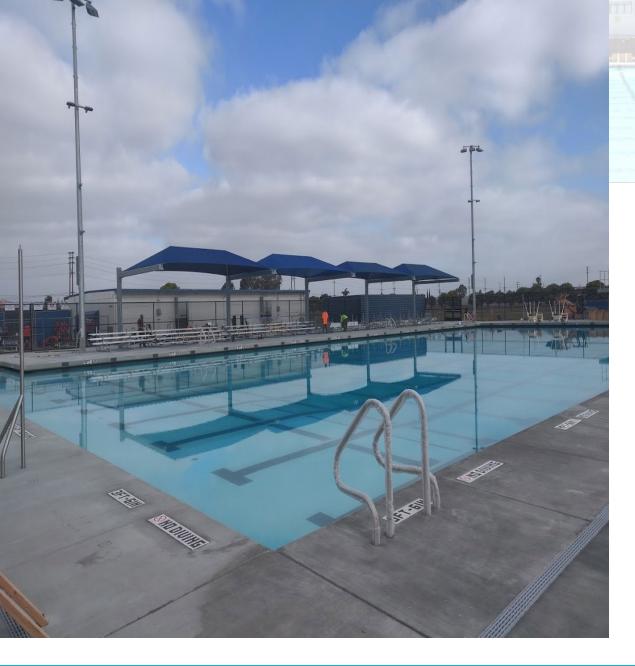
Los Alamitos High School Aquatic Center

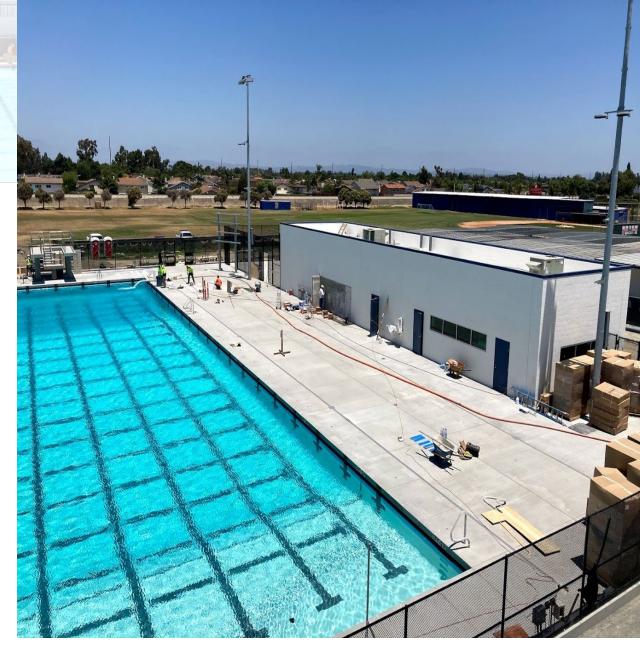


Construction activities are substantially complete and punch list items are being addressed.

The Orange County Health Department's final inspection is scheduled for July 23rd, 2020.

- Following approval from the Orange County Health Department the pool can be used for sports and recreational activities.
- The asphalt portion of the work is being selfperformed by the District to meet this date and the contractor will be back charged.
- Pool opening is scheduled for July 31, 2020





Hopkinson and Los Alamitos Elementary School – Modular Restroom Buildings

The modular restroom buildings have arrived and have been installed.

- The modular building contractor is installing plaster, brick veneer
- The general contractor is performing building utility connections
- The general contractor will resume work on the surrounding hardscape areas next week once the modular contractor is completed.





Los Alamitos Elementary School – Asphalt Parking Lot Improvements

District received a stop construction work from the Division of State Architect.

- Notification to stop work was provided to the contractor.
- Teleconference held with DSA team to resolve the stop work.
- Westgroup is currently preparing the revision for DSA review and approval.
- DSA will review same day and provide approval.



Summer Projects

Carpet Replacement at LAHS

Asphalt at Rossmoor

HVAC controls at District Office

HVAC controls at LAHS

Decorative fountain at McGaugh

Solar Update

Energy Cost Comparison in Different Options

		Solar Without EV Chargers	2 EV Chargers at High School	Additional Cost of EV Chargers	2 EV Chargers at Sites with Solar in Parking Lots	Additional Cost of EV Chargers	2 EV Chargers at Each Site	Additional Cost of EV Chargers
Year	Annual Energy Production (kWh)	Option 1	Option 2	Option 2 to Option 1	Option 3	Option 3 to Option 1	Option 4	Option 4 to Option 1
1	4,752,168	\$779,356	\$785,058	\$5,703	\$804,067	\$24,711	\$822,125	\$42,770
2	4,718,903	\$773,900	\$779,563	\$5,663	\$798,438	\$24,538	\$816,370	\$42,470
3	4,685,870	\$768,483	\$774,106	\$5,623	\$792,849	\$24,367	\$810,656	\$42,173
4	4,653,069	\$763,103	\$768,687	\$5,584	\$787,299	\$24,196	\$804,981	\$41,878
5	4,620,498	\$757,762	\$763,306	\$5,545	\$781,788	\$24,027	\$799,346	\$41,584
6	4,588,154	\$752,457	\$757,963	\$5,506	\$776,316	\$23,858	\$793,751	\$41,293
7	4,556,037	\$747,190	\$752,657	\$5,467	\$770,881	\$23,691	\$788,194	\$41,004
8	4,524,145	\$741,960	\$747,389	\$5,429	\$765,485	\$23,526	\$782,677	\$40,717
9	4,492,476	\$736,766	\$742,157	\$5,391	\$760,127	\$23,361	\$777,198	\$40,432
10	4,461,029	\$731,609	\$736,962	\$5,353	\$754,806	\$23,197	\$771,758	\$40,149
11	4,429,801	\$726,487	\$731,803	\$5,316	\$749,522	\$23,035	\$766,356	\$39,868
12	4,398,793	\$721,402	\$726,681	\$5,279	\$744,276	\$22,874	\$760,991	\$39,589
13	4,368,001	\$716,352	\$721,594	\$5,242	\$739,066	\$22,714	\$755,664	\$39,312
14	4,337,425	\$711,338	\$716,543	\$5,205	\$733,892	\$22,555	\$750,375	\$39,037
15	4,307,063	\$706,358	\$711,527	\$5,168	\$728,755	\$22,397	\$745,122	\$38,764
16	4,276,914	\$701,414	\$706,546	\$5,132	\$723,654	\$22,240	\$739,906	\$38,492
17	4,246,975	\$696,504	\$701,600	\$5,096	\$718,588	\$22,084	\$734,727	\$38,223
18	4,217,247	\$691,628	\$696,689	\$5,061	\$713,558	\$21,930	\$729,584	\$37,955
19	4,187,726	\$686,787	\$691,812	\$5,025	\$708,563	\$21,776	\$724,477	\$37,690
20	4,158,412	\$681,980	\$686,970	\$4,990	\$703,603	\$21,624	\$719,405	\$37,426
21	4,129,303	\$677,206	\$682,161	\$4,955	\$698,678	\$21,472	\$714,369	\$37,164
22	4,100,398	\$672,465	\$677,386	\$4,920	\$693,787	\$21,322	\$709,369	\$36,904
23	4,071,695	\$667,758	\$672,644	\$4,886	\$688,931	\$21,173	\$704,403	\$36,645
24	4,043,193	\$663,084	\$667,936	\$4,852	\$684,108	\$21,025	\$699,472	\$36,389
25	4,014,891	\$658,442	\$663,260	\$4,818	\$679,320	\$20,877	\$694,576	\$36,134
26	3,986,787	\$653,833	\$658,617	\$4,784	\$674,564	\$20,731	\$689,714	\$35,881
27	3,958,879	\$649,256	\$654,007	\$4,751	\$669,842	\$20,586	\$684,886	\$35,630
28	3,931,167	\$644,711	\$649,429	\$4,717	\$665,153	\$20,442	\$680,092	\$35,381
29	3,903,649	\$640,198	\$644,883	\$4,684	\$660,497	\$20,299	\$675,331	\$35,133
30	3,876,323	\$635,717	\$640,369	\$4,652	\$655,874	\$20,157	\$670,604	\$34,887
Total	128,996,990	21,155,506	21,310,303	154,796	21,826,291	670,784	22,316,479	1,160,973

District Goal of Energy Savings: \$12,020,000 - \$14,850,000 (Years 1 – 30)

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^{*}District Office, LAE, LAHS, McAuliffe, McGaugh, and Oak

EV Charging: PFMG Clients

Of 32 California School Districts

 Only one installed EV chargers – Antelope Valley Union High School District

We can add this prior to installation

Recommendation

No EV charging station at this time

We can add this prior to installation

Solar Timeline

July:

Update Solar Presentation with EV Charging Information

August:

Contract to Board (Post 4217 two weeks prior to approval)

September:

- 1. Real Estate
 Due Diligence
 (July Sept)
- 2. Community
 Outreach (July –
 Sept)

October:

- 1. District Sign Off
- 2. Design Begins

November:

Continue Design

December:

Soar Modules to be Ordered to Receive Discount

2021:

Construction 12-18 Months

Questions & Directions