



August 29, 2019

Mr. Edgar S. Esquivel  
Project Manager, Facilities  
Gilroy Unified School District

Via E-Mail: [edgar.esquivel@gilroyunified.org](mailto:edgar.esquivel@gilroyunified.org)

**Subject:           *Gilroy High School Swimming Pool Replacement*  
                          *750 West 10<sup>th</sup> Street, Gilroy, California 95020*  
                          *CEL #10-36974PW*  
                          *Materials Testing and Construction Inspection Services***

Dear Mr. Esquivel:

Consolidated Engineering Laboratories (CEL) is pleased to submit our budget estimate proposal to provide materials testing and construction inspection services for the ***Gilroy High School Swimming Pool Replacement project, located at 750 West 10<sup>th</sup> Street in Gilroy, California.*** CEL would be proud to be part of your team, helping to ensure the construction quality and success of this project.

Following are our cost estimate and scope of services. We assembled this proposal based on the following sources:

- DSA Backcheck drawings, dated July 30, 2019;
- DSA Form 103, dated July 30, 2019.

Thank you for giving CEL the opportunity to be a part of your project team. We are committed to providing our clients the very best service possible to fulfill their testing and inspection needs, and are eager to prove this commitment to you. Should you have any questions or require additional information, please do not hesitate to contact me.

Respectfully submitted,  
**CONSOLIDATED ENGINEERING LABORATORIES**

William K. Cale, Jr.  
Senior Project Manager

WKC/clr



## **ASSUMPTIONS AND CLARIFICATIONS**

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We assembled this proposal based on the following assumptions:

- All steel to be fabricated in a Northern California facility running a single shift during regular business hours. Fabricator unknown.
- **Reinforced Concrete:**
  - 2 pool bottom SOG pours;
  - 5 miscellaneous pours: decks, walks, stairs;
  - 5 shotcrete applications.
- All soils observation and testing by the geotechnical engineer of record.
- No overtime or shift-differential time is included in this budget estimate proposal.



Gilroy High School Swimming Pool Replacement  
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**GILROY HIGH SCHOOL SWIMMING POOL REPLACEMENT  
GILROY, CALIFORNIA  
CEL #10-36974PW  
PRICING**

Description	Quantity	Unit Rate	Subtotals	
<b>REINFORCED CONCRETE</b>				
Mix Design Review	2 Each	\$ 200.00	\$ 400.00	
Sampling and Tagging Reinforcing Steel	20 Hours	\$ 72.00	\$ 1,440.00	
Rebar Bend and Tensile Test	16 Each	\$ 72.00	\$ 1,152.00	
Batch Plant Inspection, Periodic	28 Hours	\$ 72.00	\$ 2,016.00	
Concrete Sampling, 7 pours	56 Hours	\$ 72.00	\$ 4,032.00	
Concrete Compression Tests	45 Cylinders / 9 Sets	\$ 25.00	\$ 1,125.00	
Sample Pick-Ups	7 Trips	\$ 75.00	\$ 525.00	
<b>SUBTOTAL:</b>			\$	<b>10,690.00</b>
<b>SHOTCRETE AND PRE-PRODUCTION TEST PANEL</b>				
Mix Design Review	1 Each	\$ 200.00	\$ 200.00	
Reinforcing Steel Inspection	40 Hours	\$ 85.00	\$ 3,400.00	
Shotcrete Inspection, 5 shoots	40 Hours	\$ 85.00	\$ 3,400.00	
Production Panel Compression Tests (3 cores per panel)	15 Cores	\$ 85.00	\$ 1,275.00	
Pre-Production Panel Tests: (Including Laboratory Coring)	1 Each	\$ 1,000.00	\$ 1,000.00	
Core Drilling Technician (One/Two Man Crew)				
Encasement Evaluation by Engineer (3 Cores)				
Diamond Bit Wear Charges				
Sample Pick-Ups	5 Trips	\$ 75.00	\$ 375.00	
<b>SUBTOTAL:</b>			\$	<b>9,650.00</b>
<b>STRUCTURAL AND MISCELLANEOUS STEEL</b>				
Welding Procedure Specification Review	2 Each	\$ 200.00	\$ 400.00	
Shop Fabrication Inspection	24 Hours	\$ 85.00	\$ 2,040.00	
Field Welding Inspection	24 Hours	\$ 85.00	\$ 2,040.00	
<b>SUBTOTAL:</b>			\$	<b>4,480.00</b>
<b>POST-INSTALLED ANCHORS</b>				
Placement of Post-Installed Anchors	24 Hours	\$ 72.00	\$ 1,728.00	
Proofload or Torque Testing	24 Hours	\$ 72.00	\$ 1,728.00	
<b>SUBTOTAL:</b>			\$	<b>3,456.00</b>
<b>MISCELLANEOUS</b>				
Final Affidavit	1 Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 10%			\$ 2,867.60	
<b>SUBTOTAL:</b>			\$	<b>3,267.60</b>
<b>MAN-HOURS</b>				<b>280</b>
<b>GRAND TOTAL:</b>			\$	<b>31,543.60</b>



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**Basis of Charges:** The proposed unit rates will be in effect through June 30, 2020. Thereafter, the unit rates are subject to an annual increase of four and one-half percent (4.5%) per year to mitigate the annual operating cost increases:

Work over 8 Hours per day	Time and One-Half
Work over 12 Hours, Monday through Friday	Double Time
Work on Saturdays	Time and One-Half
Work over 8 Hours on Saturdays	Double Time
Work on Sundays/Holidays	Double Time
Swing or Graveyard Shift Premium	\$12.50 per Hour
Work from 0-4 Hours	4-Hour Minimum Billing
Work from 4-8 Hours	8-Hour Minimum Billing
Same-Day Service Call Requests	\$200.00/each
Show-Up Time	2-Hour Minimum Billing
Sample Pick-Up	\$75.00/Trip
Laboratory Testing - Rush Fee	Add 50% to Testing Cost
Technician with Nuclear Gauge	Portal-to-Portal
Final Affidavit (per permit number) (request six working days advanced notice)	\$400.00
Extra Copies (over four per issue date) of Inspection Reports and Final Affidavit	\$20.00/each
Project Engineering and Management	10% of Fees
Credit Card Payment of Fees	2.5% Premium
Reimbursables	Cost + 15%
QA/QC Plan Written Procedures	Quotation upon Request
Out of Area Services (beyond 40-mile radius)	As Listed Below:
Travel Time	Basic Hourly Rate
Mileage	\$0.60/Mile
Per-Diem, including lodging	\$120.00/Day

**QUANTITY DISCLAIMER:**

This quote outlined herein was based on the following sources:

- DSA Backcheck drawings, dated July 30, 2019;
- DSA Form 103, dated July 30, 2019.

This proposal is limited to the scope of services, the number of inspection hours, and the number of associated tests identified herein. Any estimated quantities contained herein are estimates only and Client agrees to payment for services rendered in excess of the estimated quantities and/or cost figures as described herein.

It is recognized that additional services rendered herein under this proposal are schedule driven and are mandated by the scheduling and staffing of the contractor(s). Should items and quantities alter from estimates outlined herein, CEL shall be entitled to compensation for services rendered.

In addition, Client recognizes that, on occasion, due to the schedule of the contractor or relevant subcontractors, occasional overtime may be required. CEL typically will have no notice of this until the day the said overtime occurs. Client agrees to compensate CEL for such overtime.

## SCOPE OF SERVICES

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### **REINFORCED CONCRETE**

#### **Mix Review**

We will review the proposed concrete mixes in our laboratory for conformance with specifications.

#### **Sample, Tag and Test Reinforcing Steel**

Prior to fabrication of the steel, we will make a visit to the reinforcing steel supplier and collect mill certificates and sample reinforcing steel from the unbroken bundles. Testing will be as per American Society for Testing and Materials (ASTM) A615. Once the steel is ready for shipment, we will make another trip to the supplier and inspect to determine the steel has identical heat numbers to that already tested, and tag the steel so that it may be shipped to the job site.

#### **Batch Plant Inspection**

Our inspector will periodically check for batch weights, moisture content of aggregates, proper use of admixtures, and batching procedures.

#### **Reinforcing Steel Placement**

Will be performed by the Inspector of Record (IOR).

#### **Concrete Placement**

Will be performed by the IOR.

#### **Concrete Sampling**

Our inspector will be on-site to perform casting of (4x8) concrete cylinders for compression testing at a frequency of five cylinders for every 50 cubic yards placed.

#### **Concrete Compression Testing**

We will transport all samples to our laboratory for compression testing in strict accordance with ASTM requirements. Compression test reports will be distributed to the appropriate parties.

### **SHOTCRETE AND PRE-PRODUCTION TEST PANEL**

#### **Inspection**

We will provide continuous inspection of shotcrete, as required by Code. We will be performing the following:

- Determine that the reinforcing steel is placed properly prior to the arrival of concrete on-site.
- Monitor the temperature of the concrete as it is being placed;
- Check batch tickets as they arrive on-site to determine that the proper mix is being delivered;
- Monitor and control slump and water cement ratios;
- Check for rebound effects and determine that the nozzleman on-site is qualified to perform the work he is performing that day;
- Control and monitor rebound effects, nozzle distance, and velocity;
- Witness the fabrication of test panels for conformance with American Concrete Institute (ACI) standards, and observe that the test panel is shot in a manner similar to placement of shotcrete for the structure;
- The test panel(s) will be cored at our laboratory, and three samples will be tested at 28 days for



compression testing.

Pre-production test panels are required to certify shotcrete nozzleman. The pricing is based on qualifying one nozzleman and includes:

- Inspection of pre-production panel placement;
- Coring of test panel for nozzleman grading;
- Compression testing;
- A staff engineer, in accordance with ACI procedure, will perform grading.

Additional certification of prospective nozzlemen shall be billed at rates noted herein.

### **STRUCTURAL AND MISCELLANEOUS STEEL**

#### **Shop Inspection**

- Review of welding procedure specifications;
- Material identification and mill certificate review;
- Observe the utilization of certified welders and approved welding procedures;
- Visual inspection of welding to determine compliance with contract documents;
- Nondestructive testing of moment welds and column splices;
- Confirm approximate preheat temperature;
- Continuous inspection of multi-pass fillet welds, groove welds and reinforcing steel welding.

#### **Field Inspection**

- Observe the utilization of certified welders and approved procedures;
- Confirm approximate preheat temperature;
- Nondestructive testing of moment welds and column splices;
- Inspect to determine and observe proper installation and tightening of high strength bolts;
- Visual inspection of welding to determine compliance with contract documents;
- Continuous inspection of multi-pass fillet welds, groove welds and reinforcing steel welding.

### **POST-INSTALLED ANCHORS**

As required, we will perform visual examination of anchor placement to determine if post-installed anchor holes are clean, of the proper depth and diameter, and installed as specified by the manufacturer. In addition, we will perform proofload/torque testing of the anchors at the percentage defined by the plans and specifications.

**NOTE:** These estimates assume that adequate access will be provided for performing the work at maximum production, i.e., scaffolding. Should any anchor fail, additional tests will be required per plans.