



**CHABOT
LAS POSITAS**
COMMUNITY COLLEGE DISTRICT

Proposal to Provide DSA Approved Testing and Inspection Lab

**Las Positas College, Public Safety Complex
(PSC) and Advanced Manufacturing and
Transportation (AMT) Facilities – Bid B20/21-16**



**CONSTRUCTION
TESTING SERVICES**

Submitted By:
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Submitted On:
April 29, 2021

Submitted To:
Attn: Marie Hampton, Purchasing Manager
Chabot-Las Positas Community College
7600 Dublin Blvd., 3rd Floor, Dublin, CA 94568



Proposal to Provide DSA Approved Testing and Inspection Lab



**Las Positas College, Public Safety Complex (PSC)
and Advanced Manufacturing and Transportation
(AMT) Facilities, Bid B20/21-16**

April 29, 2021

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April 29, 2021

Attn: Marie Hampton, Purchasing Manager
Chabot-Las Positas Community College District
7600 Dublin Blvd, 3rd Floor
Dublin, CA 94568

RE: Proposal to Provide DSA Approved Testing and Inspection Lab for Chabot-Las Positas CCD, Las Positas College Public Safety Complex and Advanced Manufacturing and Transportation Facilities B20/21-16, Livermore, CA – CTS Proposal No. P19612

Dear Ms. Hampton and District Team:

Thank you for the opportunity to propose our testing and inspection services for these new facilities at Las Positas College. We understand that the project will include two buildings in increment 1 with all related sitework and the fire training apparatus in increment 2. The District team will need to select a firm it can trust to help achieve their project objectives, which CTS has done over the last 27 years, including our experience with CLPCCD. Our team strives to give our clients everything their projects' need – from flexibility in scheduling inspections, certified inspectors to exceptional communication and budgeting in our project management efforts. We offer the District the following as your testing and special inspections firm of choice:

- ☑ **Proximity and Local Presence.** Services on this contract will be performed at our DSA-accredited laboratory and corporate office in Pleasanton (2118 Rheem Drive, Pleasanton, CA – LEA 151), with inspections performed by more than 40 local inspectors living throughout the area who can be readily available to provide services. *CTS will not charge the District travel time and mileage due to our proximity to the campus.*
- ☑ **Firm Size and Qualifications.** CTS' 250+ member staff include registered civil and geotechnical engineers, lab technicians, DSA-certified multi-disciplined special inspectors, offsite batch plant inspectors, rebar sample and tag inspectors, as well as steel shop inspectors. CTS' labs are regularly reviewed and accredited by DSA, CCRL, USACE and AASHTO as well as other agencies; our civil and geotechnical engineers are registered with the State of California and our inspectors hold certifications with DSA, AWS, ICC, ACI, NICET and ASNT.
- ☑ **Experienced Project Management.** Your dedicated project manager, Mr. Brian Joyce, has over 20 years of experience in the construction industry. He has managed numerous projects for K-12 and community college districts and is familiar with the needs associated with these contracts. He will be prepared to help implement this contract, immediately, to provide services to support the current procurement and construction schedule.
- ☑ **Community College and DSA Project Expertise.** Our proposed DSA focused team has successfully provided work for community college districts including CLPCCD for the Measure B Bond Program as well as with other Districts. Some of our past projects include *Las Positas College Performing Arts Center, Solano CCD Building 700/800 Annex, San Joaquin Delta College, Cunningham Math and Science Building, Contra Costa CCD Gym Annex Building and Solano Community College Biotechnology and Science Building, Increment 2.* CTS has also provided services on various projects and on-call contracts with the following Districts: *Ohlone CCD, Contra Costa CCD, West Valley Mission CCD, Peralta CCD, San Joaquin Delta CCD, San Mateo CCD, West Hills CCD, San Jose Evergreen CCD, Yuba CCD, Santa Barbara CCD, Solano CCD and City College of San Francisco.* Through this experience, we are highly familiar with construction under DSA regulations and have an abundance of experience working under the direction of the IOR.

Your contact for this proposal is Mrs. Aaren Solis, Vice President. She can be reached directly at 925.250.8462 (cell) or via email at asolis@cts-1.com (address: 2118 Rheem Drive, Pleasanton, CA 94588). Both Mrs. Solis and Mr. Greenan are authorized to sign contracts on behalf of the firm. Additionally, CTS acknowledges receiving Addendum No. 1 dated March 30, 2021 and Addendum 2 dated 4/23/21.

We look forward to continuing the opportunity of working with Chabot-Las Positas CCD on your upcoming project.

Regards,

Patrick Greenan, PE
President/Principal-in-Charge

Brian Joyce
DSA Project Manager



Proposed Key Personnel

The following is a listing of CTS' project team and availability of resources, including qualifications and specific project role. Detailed resumes for each staff member can be found on the following pages in this section.

CTS Team Member & Role	Qualifications	Availability
Brian Joyce <i>DSA Project Manager</i>	Mr. Joyce has 20 years of experience in the construction industry. His background includes over 13 years of experience as a safety manager in the construction industry.	60%
Dan Ventura, PE <i>DSA Engineering Manager</i>	<ul style="list-style-type: none"> • Professional Engineer, State of California, No. C81280 • ACI Concrete Laboratory Testing Technician – Level 1 • ACI Concrete Strength Testing Technician • ACI Concrete Field Testing Technician – Grade 1 • ACI Aggregate Base Testing Technician • ACI Aggregate Testing Technician – Level 1 	30%
Brad Quon, GE <i>Geotechnical Engineer of Record</i>	<ul style="list-style-type: none"> • Professional Engineer, State of California, No. C62900 • Geotechnical Engineer, State of California, No. 2841 • ACI Aggregate Testing Technician – Level 1, No. 01165517 • ACI Aggregate Base Testing Technician, No. 01165517 • ICC Soils Special Inspector, No. 8144930 • U.S. Army Corps of Engineers Contractor Quality Control • Concrete Masonry Testing Technician, CMTT 6205 • F-Number Measurement using the Dipstick Floor Profiler • CPN Radiation Safety Officer • CPN Radiation Safety & Use of Nuclear Gauges • Geopier Soil Reinforcement Technical Training 	30%
Ron Harr <i>Field Supervisor/DSA Masonry Inspector</i>	<ul style="list-style-type: none"> • ICC Structural Steel and Welding • ICC Reinforced Concrete; ICC Structural Masonry • ICC Prestressed Concrete • ACI Concrete Field Testing Technician – Grade I • DSA Shotcrete • DSA Masonry 	50%
Ty Shallenberger <i>Multi-Disciplined Resident Inspector</i>	<ul style="list-style-type: none"> • Nuclear Radiation Certification of Soil Gauges • AWS/CWI • CAW I, UT Level 1&2 • NDT Level II Ultrasonic Testing Inspector (UT) • NDT Level II Magnetic Particle Inspector (MT) • ACI, Concrete Technician, Grade I • ICC, Master of Special Inspection • ICC, Special Inspector, Prestressed Concrete • ICC, Special Inspector, Reinforced Concrete • ICC, Special Inspector, Spray-applied Fireproofing • ICC, Special Inspector, Structural Masonry, • ICC, Special Inspector, Structural Steel and Bolting • ICC, Special Inspector, Structural Welding • OSHA Construction Safety and Health 	100%
Donald Shirley <i>Multi-Disciplined Special Inspector</i>	<ul style="list-style-type: none"> • ICC Structural Steel and Welding • ICC Reinforced Concrete • ICC Structural Masonry • ICC Prestressed Concrete • ACI Concrete Field Testing Technician, Grade I • ACI Adhesive Anchor Installation Inspector 	90%



	<ul style="list-style-type: none"> • Nuclear Gauge Operator 	
Daryl Spieker <i>Multi-Disciplined Special Inspector</i>	<ul style="list-style-type: none"> • ICC Reinforced Concrete • ICC Prestressed Concrete • ACI, Concrete Field Testing Technician, Grade I • Nuclear Gauge Operator 	80%
Tony Perez <i>Concrete Batch Plant Inspector</i>	<ul style="list-style-type: none"> • ICC Structural Steel and Bolting • ICC Structural Masonry • ICC Prestressed Concrete • ICC Reinforced Concrete • ICC Structural Welding • ICC Fireproofing • ACI Concrete Field Testing Technician, Grade I • Nuclear Density Gauge Radiation Safety/Operation 	80%
Mary Cabrales <i>Multi-Disciplined Special Inspector</i>	<ul style="list-style-type: none"> • ICC Structural Steel and Welding • ICC Masonry • ICC Reinforced Concrete • ICC Spray-Applied Fireproofing • ACI Concrete Field Testing Technician, Grade I • Nuclear Gauge Operator 	70%
Brian Arnold <i>ASNT NDT Level III and Field and Steel Shop Supervisor</i>	<ul style="list-style-type: none"> • AWS/Certified Welding Inspector • NDT, Level III – Ultrasonic and Magnetic Particle • ICC Master of Special Inspection • ICC Prestressed Concrete • ICC Reinforced Concrete • ICC Spray-Applied Fireproofing • ICC Masonry • ICC Structural Steel and Bolting • ICC Structural Welding • ACI Concrete Field Testing Technician, Grade I • Nuclear Gauge Operator 	60%
TBD <i>Steel Shop Inspectors</i>	<ul style="list-style-type: none"> • Based on shop location (s), timing and required travel to Wisconsin (for INC 2) 	100%
<i>100+ additional Multi-Disciplined Special Inspectors</i>	<ul style="list-style-type: none"> • ICC • DSA • AWS • ACI • NDT • Nuclear Density Gauge Operator 	80-100%



Certifications/Training
Nuc Gauge Operator Training,
No.181101

Mr. Joyce has 26 years of experience in the construction industry and 6 years with CTS. His background includes over 13 years of experience as a safety manager in the construction industry. Brian manages project activities on a day-to-day basis, working directly with CTS team members, performs monthly budget analysis, and reviews inspection and lab testing reports to ensure conformance with project specific plans and specifications.

Select Professional Experience

Ohlone CCD, Ohlone College Athletic Fields, Fremont, CA

The Athletic Fields project will design and construct a new Baseball field, a new Softball field and a new Soccer field. Also included in this project will be the construction of the Field House and accessible pathways to all three fields. Baseball and Softball fields will remain in the existing locations with the soccer field being constructed in the South end of Parking Lot D and E. CTS is providing all special inspections and material testing, and geotechnical engineering services for this project. Brian was CTS' project manager.

Ohlone CCD, Ohlone College South Parking Structure, Fremont, CA

Brian was the project manager on this project at Ohlone College. Brian works closely with the program manager, providing monthly budgets and overseeing the inspection team. The new South Parking Structure project will design and construct a new parking structure situated within the hillside at the Southeast corner of campus to serve as one of the primary parking facilities for the campus. The completed project will also provide associated roadways necessary to support vehicle circulation to and from the new South Parking Garage structure from the South, East and West sides of the structure including a formal vehicular drop-off in the upper campus.

Ohlone CCD, Ohlone College Utility Infrastructure Upgrade, Fremont, CA

Brian was the project manager on this project and providing monthly budget analysis and problem solving and acting as the office point of contact for the team. The District Facilities Master Plan recommends the construction of infrastructure in a series of coordinate phases with the building improvements. The phases are designed to maintain service to critical campus functions while minimizing disruption.

San Mateo County Community College District, Skyline College B12N Environmental Sciences Building, San Mateo, CA

The SKY B12 New Environmental Science Building ("Project") is a public works project on the District's Skyline College. The project generally consists of a new 21,000sf building including 2 lecture halls, 2 classrooms, catering kitchen, gathering space for 290 people, outdoor learning environment, glass expansive west facing views with minimum obstructions and geoexchange, heat recovery system. CTS is performing all testing and inspection services including concrete, masonry, grout, coring, GFRC, onsite and offsite welding, batch plant, rebar sample and tag, masonry sample and tag and all required laboratory testing per DSA requirements. Brian was CTS' project manager for this project.



West Valley CCD Facilities Bldg. Replacement Inc. 1, Saratoga, CA

CTS was awarded this project with West Valley Community College District to provide construction materials testing and inspections for the Increment-1 Facilities Building replacement project. Plans for the project include site grading, lime treatment and installation of underground utilities to be installed in preparation for Increment 2 work. Installation of underground utility pathways and depths of lime treatment are critical coordination items to ensure Increment 2 work is properly supported. Soil chemical stabilization procedures shall be in accordance with geotechnical investigation for the new facilities building and corporation yard and, alterations to existing parking lot to provide accessible parking and accessible route to playing field. As the project manager, Brian worked closely with the program managers, following up with DSA reports and tracking budgets.

West Valley CCD, Kvamme Planetarium, Saratoga, CA

This DSA governed project is broken up into two phases. Increment 1 includes demolition, rough grading for a planetarium addition on the West Valley College Campus in Saratoga, CA. Increment 2 includes building the new planetarium addition, as well as site work and landscaping. Brian was CTS' project manager who is overseeing CTS' team, performing concrete sampling, non-shrink grout, slab on grade inspections, grout placement, masonry wall coring, field and shop welding, torque testing, and pull testing inspections.

West Valley CCD, School of Professional Studies, Saratoga, CA

This project will include the renovation of the existing Business Division building and the Administration of Justice building. These spaces include classrooms and faculty offices. The Business building is comprised of four separate conditioned units, approximately 19,400sf, under a single roof, with exterior breezeways in each unit. The Administration of Justice building is approximately 3,800sf. The perimeter footprints will remain the same but the interior walls will be reconfigured. Existing structural columns will remain in place. Improvements include seismic upgrades, reconfiguration of exterior walls at the breezeways, new interior partition construction, new accessible circulation within the building, limited re-use of existing building materials, new fire sprinkler system installation, restrooms and plumbing upgrades, new fire alarm installation, new lighting and electrical upgrades, new mechanical systems, and new daylighting and glazing systems. Brian is CTS' project manager for this project and the scope of work included observation of concrete and rebar placement, non-shrink grout inspections, concrete sampling, field and shop welding, torque testing, pull testing, batch plant inspections, rebar sample & tag inspections, and glulam fabrication.

West Valley CCD, Student Services, Saratoga, CA

This project involves the new construction of a two-story, 34-6" tall student services building, approximately 36,000gsf. This project will also include site work. CTS plans to provide concrete sampling, elevator pit/slab inspections, observation of footings/grade beams, non-shrink grout, slab on grade, field and shop welding, proof loading, pull testing, and torque testing. Brian was CTS' project manager.



Education

- BS, Civil Engineering (Geotechnical Engineering Emphasis), California Polytechnic State University, San Luis Obispo, CA

Registrations

- Professional Engineer, State of California, No. C81280

Certifications

- ACI Concrete Laboratory Testing Technician – Level 1
- ACI Concrete Strength Testing Technician
- ACI Concrete Field Testing Technician – Grade 1
- ACI Aggregate Base Testing Technician
- ACI Aggregate Testing Technician – Level 1

Mr. Ventura is CTS' associate engineer and engineering manager. He has eight years of experience in the industry and brings vast expertise of observations and laboratory testing on a variety of projects. Dan has performed on a wide variety of private and public projects in the San Francisco Bay Area requiring special inspection and testing for new construction. Dan assists our project managers in reviewing inspection reports and laboratory reports for conformance with construction documents and applicable code. Dan also provides oversight to laboratory technicians to confirm work is performed per CTS' in-house QC procedures and ASTM standards. He also performs various geotechnical and soils laboratory tests (i.e. Atterberg limits, particle size analysis and proctors) and classified soil per ASTM D 2488.

Dan will oversee all material testing services for this project in our Pleasanton laboratory (LEA 151) as well as review inspection reports for conformance with the project's plans and specifications and all applicable California Building Code (CBC) and per DSA reporting procedures.

Select Professional Experience

San Mateo County Community College District, Skyline College B12N Environmental Sciences Building, San Mateo, CA

The SKY B12 New Environmental Science Building ("Project") is a public works project on the District's Skyline College. The project generally consists of a new 21,000sf building including 2 lecture halls, 2 classrooms, catering kitchen, gathering space for 290 people, outdoor learning environment, glass expansive west facing views with minimum obstructions and geoexchange, heat recovery system. CTS is performing all testing and inspection services including concrete, masonry, grout, coring, GFRC, onsite and offsite welding, batch plant, rebar sample and tag, masonry sample and tag and all required laboratory testing per DSA requirements. Dan was engineering manager on this project.

Ohlone Community College District, Athletic Fields, Fremont, CA

The Athletic Fields project will design and construct a new Baseball field, a new Softball field and a new Soccer field. Also included in this project will be the construction of the Field House and accessible pathways to all three fields. Baseball and Softball fields will remain in the existing locations with the soccer field being constructed in the South end of Parking Lot D and E. CTS is providing all special inspections and material testing, and geotechnical engineering services for this project. Dan was CTS' engineering manager. He attended meetings, discussed project schedule, submittal review process, dispatch requirements, and provided oversight on lab testing and reports.

Contra Costa CCD, C-617 New College Center, San Pablo, CA

The New College Center project consists of construction of three new buildings, site demolition (including removal and abatement of hazardous materials), site development consisting of new utilities landscaping, roads and parking, and an amphitheater, to be constructed on the existing Contra Costa College campus. CTS was the firm of choice to provide all testing and inspection services for this project including earthwork activities and compaction testing for the building pads and sitework, concrete placement,



epoxy bolts/proof load, masonry, fireproofing, field and steel shop welding and batch plant inspections. CTS also provided rebar sample and tag along with all associated laboratory testing needed for this project. Dan was CTS' engineer for this DSA-governed project.

San Jose Evergreen CCD, Photovoltaic Project at Evergreen Community College, San Jose, CA

Dan was the staff engineer of this project DSA-governed photo voltaic project on which CTS provided testing and inspection services involving reinforcing steel, concrete, structural steel welding and bolting, miscellaneous metals, anchors and bolting. This \$11.2M energy efficiency project was funded under Measure G. The 1.5-Megawatt SunPower Solar System designed project will meet one-third of the campus' annual electricity demands.

San Joaquin Delta CCD, Cunningham Math and Science Building, Stockton, CA

The new 100,000 sf Cunningham building is envisioned as a large science and math complex with cutting-edge technology and a modern, open design that is much different than the cramped corridors and busy laboratories of the existing structure. CTS' scope includes soils testing and observation of earthwork activities; observations of roofing, fireproofing, masonry, concrete and rebar placement as well as steel shop and field welding inspections. Dan was the staff engineer on this project working closely with the onsite team and reviewing reports.

San Joaquin Delta CCD, Shima Art Yard Recon, Stockton, CA

The project consisted of the remodel and expansion of the Art Yard that includes demolition and alterations to the existing art yard that include additional drainage, new wall sections with gates and hardware, new storage facilities, new canopy/roof structure, minor site work, new art kilns and other equipment, new crane/hoist and various upgrades for ADA compliance. Dan was the staff engineer on this project.

Dublin High School Performing Arts Center, Building G, Phase 3B, Dublin, CA

The new, \$17.5M technically complex Center for the Performing Arts is a large, open-span, masonry and steel-framed structure. The two-part Measure 'C' funded project involved construction of a brand new 500-seat theater and complete renovation of the old cafeteria and band rooms. The tallest part of the structure is 53 feet off the ground and houses a theatrical "fly" system where sets can be whisked off the stage for scene changes. The project is scheduled for opening in 2014. For this DSA-regulated project, CTS provided onsite testing and inspection services involving concrete, rebar, shotcrete, masonry epoxy bolts/proof load, field welding and high strength bolting. CTS also performed offsite steel shop, batch plant and rebar sample and tag inspections. Dan observed batch plant operations and monitored loads for mix no., slump, temperature, and time limit. He also reviewed reports prepared by the onsite technicians.



Education

- BS, Civil Engineering, University of the Pacific, Stockton, 1998
- Geopier Soil Reinforcement Technical Training

Professional Registrations

- Professional Civil Engineer, State of California, No. C62900
- Geotechnical Engineer, State of California, No.2841

Certifications

- ACI Aggregate Testing Technician – Level 1, No. 01165517
- ACI Aggregate Base Testing Technician, No. 01165517
- ICC Soils Special Inspector, No. 8144930
- U.S. Army Corps of Engineers Contractor Quality Control
- Concrete Masonry Testing Technician, CMTT 6205
- F-Number Measurement using the Dipstick Floor Profiler
- CPN Radiation Safety Officer
- CPN Radiation Safety & Use of Nuclear Gauges
- Geopier Soil Reinforcement Technical Training

Brad has more than 20 years of experience performing geotechnical engineering design and construction services for public works infrastructure related construction, including levees and flood control projects. His role on these has included performing field explorations, laboratory testing of soils, geotechnical engineering analysis (i.e. slope stability and seepage analyses using Geo-Slope software), and report preparation for over 100 projects. He has observed and inspected the geotechnical aspects of numerous projects during construction including roles as field technician, project engineer, resident engineer, and geotechnical engineer-of-record. Brad is CTS' geotechnical engineer for company-wide projects. In this capacity, he performs geotechnical engineering and services clientele issues when needed.

Select Professional Experience

Chabot-Las Positas Community College District, Measure B Bond Program, Livermore, CA

Brad coordinated field explorations and performed geotechnical engineering analysis for the 30,000 sf College Center For Arts (CCA) building, a Childhood Development Center, Maintenance and Operations Building, and IT Buildings within this Bond Program. CTS performed a field exploration, laboratory testing, and prepared the final geotechnical investigation report which also included a geologic hazards study. The reports were prepared in accordance with requirements of the Division of State Architect (DSA).

Contra Costa Community College District (CCCCD) New College Center, San Pablo, CA

The New College Center project consists of construction of three new buildings, site demolition (including removal and abatement of hazardous materials), site development consisting of new utilities landscaping, roads and parking, and an amphitheater, to be constructed on the existing Contra Costa College campus. Mr. Quon's duty on this project was geotechnical engineering.

Ohlone Community College District, Ohlone College Athletic Fields, Fremont, CA

The Athletic Fields project will design and construct a new Baseball field, a new Softball field and a new Soccer field. Also included in this project will be the construction of the Field House and accessible pathways to all three fields. Baseball and Softball fields will remain in the existing locations with the soccer field being constructed in the South end of Parking Lot D and E. CTS is providing all special inspections and material testing, and geotechnical engineering services for this project. Brad is CTS' geotechnical engineer who provided a geotechnical final letter for this project.

Solano Community College District, Multiple Bond Projects, Vacaville and Fairfield Campuses, CA

Brad started as the CTS' project manager for three major projects on the Fairfield and Vacaville campuses of Solano College as well as the GEOR for future projects at these campuses. These small projects included special inspections and testing for soils, concrete, field and shop welding, and rebar. He performed slab moisture testing as needed,



reviewed daily field reports, and prepared monthly budget analyses for the client.

San Francisco Unified School District, Bond Programs, San Francisco, CA

Brad provided engineering analysis and composition of compaction testing failure report for the Leonard Flynn Elementary project, one of the numerous projects under CTS' on-call contract with the district. CTS has provided testing and inspection services for this \$1.2M contract per DSA reporting procedures. Inspections have included soils, masonry, shotcrete, concrete, epoxy bolts, batch plant, field welding, offsite steel shop inspections as well as other building materials per DSA requirements.

St. Helena Unified School District, Aquatic Center, St. Helena, CA

The St. Helena Unified School District rebuilt the school's Aquatic Center, which included a 25-yard x 37-meter instructional pool, locker rooms, showers, central entry lobby, support offices, concrete pool decks, storage, and mechanical room. CTS performed onsite special inspections and material testing involving concrete, masonry, mortar, epoxy bolts/proof load, miscellaneous metals and batch plant inspections concrete and rebar placement as well as field welding inspections.

Berkeley Unified School District, King Preschool, Berkeley, CA

Brad was CTS' project engineer for this project. CTS provided DSA-regulated testing and inspections for BUSD's Measure AA-funded projects. As part of the measure, the King Preschool CDC required onsite services involving testing and inspections of concrete, epoxy bolts/proof load, field welding and compaction testing as well as offsite services involving batch plant, rebar sample and tag and miscellaneous steel shop inspections. CTS also provided all required laboratory testing for this project.

East Side Union High School District, Overfelt High School Building L Classroom, San Jose, CA

CTS was the firm of choice to perform testing and inspections on this improvement project. This modernization included structural rehabilitation, exterior area infill, various classrooms, restrooms and storage space. Services performed under this contract included testing and inspections for concrete, epoxy rebar and bolts, ceiling wire pull testing, wedge anchor, field welding/high strength bolting, steel shop, glulam, and batch plant. Brad was CTS' geotechnical engineer for this project, providing a geotechnical final letter review and the final letter.

San Ramon Valley Unified School District, Quail Run Elementary Shade Structure, San Ramon, CA

This project involves putting up 2 shade structures and performing related site work. CTS' scope of work included soils observation of earthwork activities, material identification, and concrete sampling. Brad was CTS' geotechnical engineer. He reviewed the geotechnical report and provided a final letter.



Certifications

- ICC Structural Steel and Welding, No. 1010831-85
- ICC Reinforced Concrete, No. 1010831-88
- ICC Structural Masonry, No. 1010831-84
- ICC Prestressed Concrete, No. 1010831-89
- ACI Concrete Field Testing Technician – Grade I;
- DSA Shotcrete, No. 4769
- DSA Masonry, No. 5055

Additional Community College Experience:

- Peralta Community College District – Laney College PH 1C, Oakland, CA
- San Jose Evergreen Community College District, Utility Expansion Phase 1 - Photo Lab Relocation, San Jose, CA
- San Jose Evergreen Community College District, Gullo Student Center Envelope Upgrade, San Jose, CA
- West Valley-Mission Community College District, WVC Facilities Building, Saratoga, CA
- Contra Costa Community College District – PAC Seismic Retrofit, San Pablo, CA
- Contra Costa Community College District – C-633 Seismic Retrofit, San Pablo, CA
- Contra Costa Community College District – C-1052 PAC Rigging, San Pablo, CA
- Contra Costa Community College District, C-617 New College Center, San Pablo, CA
- San Mateo Community College District – Skyline College Automotive, San Bruno, CA
- San Mateo Community College District – Skyline College Site Improvement, San Bruno, CA

Mr. Harr has more than 25 years of experience in the construction industry. Ron's specialty is materials testing and inspection. In addition, Ron's experience includes performing resident inspector duties on major construction projects. His responsibilities include field observations of reinforcing steel, concrete placement, masonry, structural steel, shear wall nailing and fireproofing. As field supervisor, Ron is also responsible for the quality control of our dispatching department and assures that all of our inspectors are properly certified for the tasks assigned. Ron provides field supervision, dispatch, inspections relief, and estimating.

Select Project Experience

Chabot-Las Positas Community College District, Measure B Bond Program, Livermore, CA

CTS was the team of choice to provide special inspections and materials testing for the construction of the Aquatic Center and Soccer Field, Task 1 of CTS' On-Call Agreement with the District. The project also included a childhood development center. Task 2, 3, and 4 included geotechnical investigations for a two story, 60,000 sf College Center for the Arts building, an approximate 10,000 sf and Operations Building, and approximate 7,000 sf Information Technology center. Geotechnical design considerations were made for expansive soils, undocumented fill, and shallow bedrock. Ron provided field supervision for the following projects: *Soccer Field Complex; PE Phase II and New Student Services/Administration Building.*

San Joaquin Delta College, Cunningham Math and Science Building, Stockton, CA

The new 100,000 sf Cunningham building is envisioned as a large science and math complex with open design. Yate was staff engineer on this \$64M project in which she reviewed mix designs and coordinated welding procedure reviews with CTS' Level III inspector. CTS provided materials testing and inspection services which involved observations of roofing, fireproofing, masonry, concrete and rebar placement as well as steel shop and field welding inspections.

San Mateo County Community College District, Skyline College B12N Environmental Sciences Building, San Mateo, CA

The SKY B12 New Environmental Science Building ("Project") is a public works project on the District's Skyline College. The project generally consists of a new 21,000sf building including 2 lecture halls, 2 classrooms, catering kitchen, gathering space for 290 people, outdoor learning environment, glass expansive west facing views with minimum obstructions and geexchange, heat recovery system. CTS is performing all testing and inspection services including concrete, masonry, grout, coring, GFRC, onsite and offsite welding, batch plant, rebar sample and tag, masonry sample and tag and all required laboratory testing per DSA requirements. Ron was the field supervisor for this project.

Solano Community College District – Measure G Facility Bond Program, Fairfield, CA

Ron has been CTS' field supervisor for all projects involving modernization, repair and expansion at Solano College. Additionally, he has provided DSA shotcrete and masonry inspections as well as concrete placement observations. CTS' scope of work includes providing soil compaction testing, torque testing, observing placement of concrete and rebar, reviewing welder's qualifications,



observing field and shop welding and monitoring all work for conformance with DSA approved plans, specifications and applicable standards of workmanship. Projects under this Bond include: *Biotechnology and Science Building, Increments 1 & 2; Building 700/800 Annex and Building 1800A.*

West Hills College, Multi-Use Sports Complex, Lemoore, CA

Ron was CTS' field supervisor for this project consisting of construction of a 55,000 sf, 2-story arena with 2,200 seats in a theatre style arrangement. His role included providing DSA-masonry inspections, sampling for grout, CMU, brick, shear bond strength, and electrical transformer enclosure inspections as well as offsite batch plant inspections.

Delta College, Shima Art Yard Reconstruction, Stockton, CA

This project consisted of the remodel and expansion of the Art Yard. Ron was CTS' field services supervisor for this project. CTS staff performed soil compaction testing, soil observation of earthwork activities, observed batch plant operations and placement of concrete, reviewed welder qualification papers, observed welding performed in progress, monitored mix loads and performed pull tests.

West Valley Community College District, Kvanne Planetarium, Saratoga, CA

This DSA governed project is broken up into two phases. Increment 1 includes demolition, rough grading for a planetarium addition on the West Valley College Campus in Saratoga, CA. Increment 2 includes building the new planetarium addition, as well as site work and landscaping. CTS' scope of work includes concrete sampling, non-shrink grout, slab on grade inspections, grout placement, masonry wall coring, field and shop welding, torque testing, and pull testing inspections. Ron was CTS' field supervisor for the duration of this project.

City College of San Francisco, Joint-Use Facility, San Francisco, CA

For this new 85,000 sf structure employing a number of green-design principles, Ron provided DSA-regulated intumescent paint and batch plant inspections as a key member of the CTS inspection team. He also performed field supervision of CTS staff providing onsite inspections of soils, reinforcing steel, high-strength bolting, fireproofing and epoxy bolts as well as offsite steel shop inspections.

San Jose Evergreen Community College District, Evergreen Valley College – Central Plant and Police Station Renovation, San Jose, CA

Ron was CTS' field supervisor on the DSA-governed project, managed by Gilbane, at Evergreen Valley College to renovate the existing central plant/campus police building. The expansion, funded by bond monies, will allow for more efficient operations and provide a secure environment which will be more responsive to the district's needs. As field supervisor, he is responsible for managing the inspections team and assuring quality control. Ron also performed onsite observation of placement of CMU, as well as offsite batch plant inspection at CEMEX.



Education

- Wilrick Institute of Technology, Courses Completed in Structural Steel and Welding, Structural Masonry, Reinforced Concrete, Prestressed Concrete.

Certifications

- Nuclear Radiation Certification of Soil Gauges
- AWS/CWI – No. 09041501
- CAWI, UT Level 1&2
- NDT Level II Ultrasonic Testing Inspector (UT)
- NDT Level II Magnetic Particle Inspector (MT)
- ACI, Concrete Technician, Grade I
- ICC, Master of Special Inspection
- ICC, Special Inspector, Prestressed Concrete
- ICC, Special Inspector, Reinforced Concrete
- ICC, Special Inspector, Spray-applied Fireproofing
- ICC, Special Inspector, Structural Masonry
- ICC, Special Inspector, Structural Steel and Bolting
- ICC, Special Inspector, Structural Welding
- OSHA Construction Safety and Health, No. Z-002677858

Mr. Shallanberger has over 14 years in the construction industry. Ty's specialty is materials testing and inspection. His experience and responsibilities include field observations of soils, concrete, post-tension concrete, masonry, structural steel/welding and tiebacks.

Select Professional Experience

Contra Costa Community College District, C-633 Seismic Retrofit, San Pablo, CA

Project C-633 at Contra Costa College includes a seismic retrofit of multiple buildings on the campus including the Biological Science Building, Physical Science Building, Maintenance Warehouse and Football Press Box and Storage. The work included abatement, temporary construction, demolition, structural, electrical, mechanical, signage and architectural finishes. CTS provided testing and inspection services for this project that included earthwork activities and compaction testing for the building pads and sitework, concrete placement, epoxy bolts/proof load; CTS also provided rebar sample and tag along with all associated laboratory testing. Ty was the resident inspector on this project.

Contra Costa Community College District, C-617 New College Center, San Pablo, CA

The New College Center project consists of construction of three new buildings, site demolition (including removal and abatement of hazardous materials), site development consisting of new utilities landscaping, roads and parking, and an amphitheater, to be constructed on the existing Contra Costa College campus. CTS was the firm of choice to provide all testing and inspection services for this project including earthwork activities and compaction testing for the building pads and sitework, concrete placement, epoxy bolts/proof load, masonry, fireproofing, field and steel shop welding and batch plant inspections. CTS also provided rebar sample and tag along with all associated laboratory testing needed for this project. Ty was the resident inspector on this project.

Peralta Community College District, Laney College Athletic Facilities Upgrade 1C, Oakland, CA

This \$7.1M project consisted of an upgrade of the athletic facilities at Laney College Campus. The project involved construction of a concession and ticket stands, bleachers, pressbox and toilet building as well as additions to the pressbox platform. CTS provided a variety of testing and inspections for this project, including concrete, grout, soils, shop and field welding. Ty was the resident inspector for this project.

Peralta Community College District, Laney College Breezeway Pavement Rehabilitation and Leak Remediation, Oakland, CA

The Laney College Breezeways Pavement Rehabilitation project includes civil, and plumbing related upgrades, including structural and accessibility compliance. The project includes the removal and replacement of waterproofing system and overburden at selected



buildings. Ty was the resident inspector on this project.

Solano Community College District, On-Call Material Testing Services for Various Bond Projects, Fairfield, CA

Ty provided special inspections for various projects at the campus in Fairfield. His inspections included concrete placement and welding. Ty worked on the following projects: Aeronautics Hanger, Building 1800B Renovation, Hydronics Line, Building 700/800 Annex and the Athletics Fields.

San Francisco Unified School District, Bond Program, San Francisco, CA

Ty performed soils, welding, concrete inspections on a host of DSA-governed projects under CTS' \$1.2M+ to date contract to provide testing and inspections at more than 20 K-12, middle and high school campuses. Ty worked on numerous bond measure-funded modernization projects, including: Horace Mann Elementary School, George Washington High School, Leonard Flynn Elementary School, E.R. Taylor Elementary School.

Elk Grove Unified School District, Carroll Elementary School, Elk Grove, CA

Ty provided concrete placement inspections and welding inspections. CTS was the DSA laboratory of choice on this project for Elk Grove Unified School District, working closely with the geotechnical engineer. CTS' scope of services included soils testing, concrete, masonry, rebar, grout, moisture tests, welding, and steel fabrication shop inspections.

Chico Unified School District, Pleasant Valley High School, Performing Arts Center, Chico, CA

Chico Unified School District constructed an approximately 25,400 sf Performing Arts Center (PAC) on an undeveloped dirt/grass area with a small portion of the site covered in asphalt paving and used as part of a grouping of outdoor basketball courts. The 2-story PAC is a multiple use facility with both instructional and performance space. In addition to use by the students and faculty of Pleasant Valley High School, the facility will be available for use by all students and schools within the district. CTS assumed the role of geotechnical engineer-of-record and Ty provided inspection services involving CMU, high/low lift grout, rebar and concrete. CTS' services as the Geotechnical Engineer-of-Record include performing soil compaction testing for dry density and moisture and soil observation of earthwork activities for the center's seating area.



Certifications

- ICC Structural Steel and Welding, No.5313073-85
- ICC Reinforced Concrete, No.5313073-49
- ICC Structural Masonry, No. 5313073-X4
- ICC Prestressed Concrete, No. 5313073
- ACI Concrete Field Testing Technician, Grade I
- ACI Adhesive Anchor Installation Inspector
- Nuclear Gauge Operator

Memberships

- International Code Council
- American Institute of Steel Construction

Mr. Shirley has more than 13 years of combined experience in the inspection, materials testing, and construction management industries. Don has performed various inspection services that include soils placement/excavation/density testing, masonry construction, conventional and post-tensioned concrete, special moment-resisting concrete frames, shotcrete, insulating concrete fill, metal framing systems, structural steel and welding, and bolting. He provides quality assurance and quality control, to ensure projects are built in accordance with approved plans, specifications, and specified codes.

Select Professional Experience

Contra Costa Community College District, Contra Costa College C-526 Gym Annex, San Pablo, CA

Donald provided offsite rebar sample and tag. The 47-year-old Gym Annex underwent installation of a lift in order to comply with ADA requirements. CTS was contracted to provide soil and construction materials testing, geotechnical engineering and special inspection services.

Contra Costa Community College District, Contra Costa College C-671 New College Center, San Pablo, CA

Donald provided soils observations for this project. The New College Center project consisted of construction of three new buildings, site demolition (including removal and abatement of hazardous materials), site development consisting of new utilities landscaping, roads and parking, and an amphitheater, to be constructed on the existing Contra Costa College campus. CTS was the firm of choice to provide all testing and inspection services for this project including earthwork activities and compaction testing for the building pads and sitework, concrete placement, epoxy bolts/proof load, masonry, fireproofing, field and steel shop welding and batch plant inspections. CTS also provided rebar sample and tag along with all associated laboratory testing needed for this project.

West Valley-Mission Community College District, Mission College Campus, Main Building Replacement Phase I, Santa Clara CA

Donald provided rebar sample and tag on this project. The new \$41-million will replace the original 33-year-old structure and will house a wide range of departments, from art to music to nursing to computer science and features 49 classrooms and labs, and a 172-seat lecture hall.

West Valley-Mission Community College District, West Valley College Campus Center Modernization, Saratoga CA

Donald provided onsite concrete placement inspections. Renovations included updates to the building exterior envelopes, doors, windows, walls, roof, as well as complete custom casework and new finishes throughout. Upgrades to mechanical, electrical and plumbing systems as well as new A/V, fire protection and security systems were also included.



Dublin Unified School District, Dublin High School Cafeteria 3A, Dublin, CA

The new student cafeteria will not only provide students with meals, but will also provide a new home for Dublin High School's Culinary Arts program. The new food preparation kitchen, cafeteria food service area, new culinary classrooms, and a teacher's dining area are currently under construction and are scheduled to be open for the 2012-13 school year. Donald provided rebar sample and tag for this project.

South San Francisco High School District, Genentech Foundation Futurelab Science Garage, South San Francisco, CA

This project involves the construction of a new single story science classroom building on an existing high school campus, including the lab and instruction spaces, restrooms, storage and support spaces to facilitate the proposed coursework. Associated site work includes new concrete and AC paving, new parking striping and the relocation of/connection to existing utilities. CTS' scope includes native soil sampling, soil compaction testing, density testing, identified materials, sampled rebar, observed concrete batch plant operations, concrete placement, observed welding completed, performed quality control of welds, reviewed welder qualifications, observed welding in progress, torque testing, performed UT testing, rebar sample and tag, and performed in-place density tests. Donald identified materials and MTR's and took rebar samples.

San Francisco Unified School District, Various Bond Modernization Projects, San Francisco, CA

Donald has been one of CTS' special inspectors for various DSA-governed projects under a \$2M+ to date contract to provide testing and inspections at more than 20 K-12, middle and high school campuses for San Francisco USD's bond measure funded modernization projects. Donald performed soil compaction testing, observed backfill of native material, provided offsite rebar sample and tag and observed concrete batch operations. Donald worked on the following SFUSD projects:

- Raoul Wallenberg High School Modernization
- Francisco Middle School
- Guadalupe Elementary School
- Longfellow Elementary School Seismic
- Monroe Elementary School
- Peabody Elementary School
- Willie L. Brown Jr. Middle School Sitework
- Willie L. Brown Jr. Middle School Buildings A1 and B
- Sunnyside Elementary School
- McAteer Campus
- Aptos Middle School
- Spring Valley Elementary School
- Alamo Elementary School
- Hoover Middle School
- Ulloa Elementary School



Education

- Wilrick Institute of Technology

Certifications

- ICC Reinforced Concrete
- ICC Prestressed Concrete
- ACI, Concrete Field Testing Technician, Grade I
- Nuclear Gauge Operator, No. 15683

Mr. Spieker has more than 22 years of experience in the construction industry and 14 years of experience as a special inspector. Daryl's responsibilities include performing tests and inspections for compliance of materials and methods to project plans and specifications and building department requirements. Daryl has worked closely with various DSA inspectors on projects all over Northern California.

Select Professional Experience

CLPCCD, Las Positas Community College, Measure B Bond Program, Aquatic Center & Soccer Field Projects, Livermore, CA
CTS has an on-call agreement with the Chabot-Las Positas Community College District. Daryl observed the placement of concrete for the pool house and aquatic center footings for the retaining wall and observed the placement of rebar for the pool. Daryl was also an inspector on the soccer field project and observed the placement of concrete for sidewalks and performed batch plant inspections.

Solano Community College District – Sports Complex/Athletic Facilities, Measure G Facility Bond Program, Fairfield, CA

As a member of the CTS team, Daryl provided concrete placement inspections. Renovations included soccer and softball fields, and major renovations to the baseball and football complex. Projects included modernization, repair and expansion of the gym, locker rooms and PE facilities, cafeteria and parking lots.

City College San Francisco, Joint Use Facility, San Francisco, CA

Daryl obtained rebar samples and performed material identification for this project. The Joint-Use facility is an academic facility that will open in 2010 and will be shared by City College of San Francisco and San Francisco State University. The 85,000-square-foot structure employs a number of green-design principles, including a green roof and natural ventilation. Inspections to be performed include soils compaction and fill, steel shop, reinforcing steel, high strength bolting, fireproofing, and epoxy-set bolts.

San Mateo Community College District, Fine Arts Complex Buildings 2 and 4 Renovations, San Mateo, CA

As a member of the CTS team, Daryl provided concrete placement inspections, sampling and reinforcement inspections. The project involved modernization of the spaces in buildings 2 and 4, addressing program configurations, outdated building systems, and code issues. CTS provided materials testing and special inspection services for sell construction, concrete construction, shotcrete construction, and laboratory testing.

San Mateo Community College District, Skyline College, Auto Transmission Building #11, San Bruno, CA

Building 11 will allow the Automotive curriculum to expand by providing facilities for training in Automatic Transmission repair. Incorporated in this new building will be seven service bays which will simulate operations within a commercial automotive repair facility. Daryl provided reinforcement inspections.



Certifications

- ICC Structural Steel and Bolting, No. 8019976
- ICC Structural Masonry, No. 8019976
- ICC Prestressed Concrete
- ICC Reinforced Concrete
- ICC Structural Welding
- ACI Concrete Field Testing Technician, Grade I, No. 01149586
- ICC Fireproofing, No. 8019976
- Nuclear Density Gauge Radiation Safety/Operation

Mr. Perez has more than 10 years of experience in the construction industry. Tony's specialty is concrete and fireproofing testing and inspections. His experience includes providing batch plant and concrete inspections on numerous projects, including his assignment performing observations of concrete batch plant operations.

Select Professional Experience

Las Positas College, Collier Creek Storm Water Basin, Livermore, CA

Tony performed concrete batch plant inspections for this DSA-governed project. CTS was the laboratory of record for this project at Las Positas College in Livermore.

Dublin Unified School District Performing Arts Center, Phase 3B, Dublin, CA

As a CTS special inspector, Tony has sampled concrete, performed pull tests and observed concrete batch plant operations for this project. The project involves the construction of a new 500 seat performing arts center and the modernization of Building G for Dublin High School.

San Francisco Unified School District, 2003 Modernization Bond Program, San Francisco, CA

Tony has provided torque and pull testing, concrete sampling and concrete batch plant observations for the following projects.

- Raoul Wallenberg High School
- Aptos Middle School
- AP Giannini Middle School
- Noriega Child Development Center
- Hoover Middle School
- Commodore Stockton Child Development Center

Berkeley Union School District, High School New Classroom and Gym, Berkeley, CA

Tony is providing batch plant inspection as a member of the CTS offsite inspections team on this project involving new construction of classrooms and a gymnasium at Berkeley High School. Under this multi-component project, CTS is performing testing and inspection involving field welding, epoxy bolts/proofload, mat slab, slab on grade as well as offsite steel shop, miscellaneous steel and batch plant inspections.

St. Helena Unified School District, St. Helena High School Vocational Education Complex, St. Helena, CA

As a member of the CTS team, Tony provided batch plant and concrete sampling for this \$13.5M Vocational Education Complex. The project is part of the St. Helena Unified School District's Measure B which funds \$30M in new construction and improvements to classrooms and facilities at St. Helena High School and Robert Louis Stevenson Middle School. All work under this bond program is related to career, technical and vocational programs, such as labs, to improve student access to classroom technology. The 25,000 sf vocational education complex includes several buildings – mechanics, science, culinary arts, horticulture – and barn.



Education

- Wilrick Institute of Technology

Certifications

- ICC Structural Steel and Welding, No. 5228732
- ICC Masonry, No. 5228732
- ICC Reinforced Concrete, No. 5228732
- ICC Spray-Applied Fireproofing, No. 5228732
- ACI Concrete Field Testing Technician, Grade I, No. 01035146
- Nuclear Gauge Operator, No. 15094

Ms. Cabrales has more than 14 years of experience in the field of material testing and special inspections. Mary has performed various inspection services that include quality assurance and quality control to ensure projects were built in accordance with approved plans, specifications, and specified codes. Mary's responsibilities include inspection and testing of soils, concrete, rebar, asphalt, aggregate base and epoxy dowels/proof load, as well as fireproofing.

Select Professional Experience

Chabot-Las Positas Community College District, Measure B Bond Program, Livermore, CA

As a member of the CTS team, Mary provided rebar, concrete, footing inspections and soil observations for this on-call project. This project consisted of performing a geotechnical investigation for two soccer fields, an aquatic center and a childhood development center. CTS performed a field exploration, laboratory testing and prepared the final geotechnical report which included a geologic hazards study. Also, included was geotechnical investigations for a two story, 60,000sf for the Arts building, a 10,000sf Operations Building and 7,000sf IT center.

Chabot-Las Positas Community College District, Las Positas College – Aquatic Center, Livermore, CA

Mary provided rebar inspections for this project with the CTS team. CTS was the team of choice to provide special inspections and materials testing for the construction of the Aquatic Center. Mary also provided inspections for waterproofing. CTS' services includes soils compaction, soils testing, backfill placement observations, epoxy dowel placement, rebar, concrete, DSA masonry and CMU, shotcrete, rebar sample and tag, field welding, rebar placement and steel shop inspections.

San Joaquin Delta Community College, Cunningham Math and Science, Stockton, CA

Mary has sampled and tagged rebar for this new 100,000 sf building. The Cunningham building is envisioned as a large science and math complex with cutting-edge technology and a modern, open design that is much different than the cramped corridors and busy laboratories of the existing structure. CTS' scope includes soils testing and observation of earthwork activities; observations of roofing, fireproofing, masonry, concrete and rebar placement as well as steel shop and field welding inspections.

Solano Community College District – Measure G Facility Bond Program, Fairfield, CA

Mary has provided soils, asphalt, material ID, dowel, bolt, concrete and rebar inspections for these projects. The Measure G Facility Bond Program includes several different projects that require geotechnical engineering, special inspections and material testing services. The projects have included modernization, cafeteria expansion, locker rooms and PE facilities, parking lots, athletic fields and landscaping. CTS was the firm choice for providing testing and inspection services for these projects.



**SMCCCD, Skyline College, Auto Transmission Building #11,
San Bruno, CA**

As a CTS special inspector, Mary has provided soil inspections for Building 11. This building will allow the Automotive curriculum to expand by providing facilities for training in Automatic Transmission repair. Incorporated in this new building will be seven service bays which will simulate operations within a commercial automotive repair facility. CTS was the firm choice for providing testing and inspection services for this project.

**City College of San Francisco, Joint-Use Facility,
San Francisco, CA**

As a member of the CTS team Mary provided batch plant inspections for this 85,000 sf structure. The building employs a number of green-design principles, including a green roof and natural ventilation. CTS provided DSA regulated inspections for soils, steel shop, reinforcing steel, high strength bolting, fireproofing and epoxy bolts.

**Sacramento City College, North Gym Modernization,
Sacramento, CA**

Mary performed soils testing, rebar, batch plant inspections, concrete and pull testing for this renovation of the Sacramento City College athletic facility. The renovation converts the original 1932 building and 1968 addition into a cohesive sports environment. Upgrades include new fenestration, a contemporary fitness center, and complete renovation of the mechanical and electrical systems. The gymnasium is a hybrid of existing and contemporary styles, projecting a unique space for student learning and fitness.

San Joaquin Delta Community College, Ticket Booth, Stockton, CA

Mary observed concrete batch plant operations and concrete placement for this project. The project involved building a new ticket booth for students and the public to purchase tickets to various school activities. CTS observed concrete batch plant operations and placement of concrete and performed concrete compression tests.

**San Joaquin Delta Community College, Shima Art Yard
Reconstruction, Stockton, CA**

Mary observed earthwork activities and provided soil compaction tests for this project. The project consisted of the remodel and expansion of the Art Yard that includes demolition and alterations to the existing art yard that include additional drainage, new wall sections with gates and hardware, new storage facilities, new canopy/roof structure, minor site work, new art kilns and other equipment, new crane/hoist and various upgrades for ADA compliance.



Education

- U.S. Navy Service School Command Annex (SSCA), San Diego, CA – Visual, Magnetic Particle, Liquid Penetrant and Ultrasonic; level I; Radiographic Testing, level II; and Ultrasonic, level III
- Nuclear and Non-Nuclear Surface and Subsurface Ships – Nuclear Vessels and Conventional Powered Service Ships
- Wilrick Institute of Technology, Sacramento – ICC/ICBO Certification in Reinforced and Post-Tension Concrete, Masonry, Steel and Spray-Applied Fireproofing

Certifications

- AWS Certified Welding Inspector, No. 02071051
- NDT, Level III – Ultrasonic and Magnetic Particle
- ICC Master of Special Inspection, No. 5042108
- ICC Prestressed Concrete, No. 5042108-92
- ICC Reinforced Concrete, No. 5042108-49
- ICC Spray-Applied Fireproofing, No. 5042108-86
- ICC Masonry, No. 5042108-84
- ICC Structural Steel and Bolting, No. 5042108-51
- ICC Structural Welding, No. 5042108-52
- ACI Concrete Field Testing Technician, Grade I, No. 00058671
- Nuclear Gauge Operator, No. 12960

Mr. Arnold has more than 28 years of experience in inspections and construction, including OSHPD jurisdiction facilities, medical office buildings, K-14 facilities and Title 24 projects. His principal responsibilities include visual inspection of structural steel welding (Shop and Field), non-destructive testing – ultrasonic, reinforced concrete, structural masonry and spray-applied fireproofing. Brian's responsibilities include tests and inspections for compliance of materials and methods to project specifications and plans and building department requirements.

Select Professional Experience

Las Positas College, New Student Services Center and Administration Building, Livermore, CA

This Class 1, DSA-governed project consisted of construction of a student service building. The \$27M, 66,463 sf, new, "one-stop" facility consolidates various student services functions which have been located across the college, including counseling, admissions and records, financial aid, student government, services for seniors, the health center, cafeteria and bookstore, as well as offices for the president and other campus administrators and general classrooms. CTS provided onsite and offsite testing and inspection services involving concrete, rebar, epoxy bolts/proof load, field welding, as well as steel shop and rebar sample and tag inspections. Brian handled the welding and concrete inspection on this job.

Solano Community College District, Solano College, Building 700/800 Annex, Fairfield, CA

Brian was an onsite welding inspector for this project. The \$6.1M project involved construction of two classroom buildings. Building 700 program improvements included replacement of the mechanical system, construction of new mechanical parapets, and re-roofing of the entire building; interior finish replacement of flooring, paint and ceilings; installation of new high and low voltage systems, to include technology, remodel of all restrooms; and all required modifications to the exterior and interior to allow barrier free access to the entire building. Building 800 improvements included replacement of the mechanical system; construction of new mechanical parapets; installation of new high and low voltage systems, to include technology; addition of two classrooms, remodel of all restrooms; and all required modifications to the exterior and interior to allow barrier free access to the entire building. CTS performed geotechnical engineering support during construction, as well as soil testing during earthwork and special inspections during construction.

Solano Community College District, Solano College Building 1700A, Fairfield, CA

Brian was an onsite welding inspector for this project. The Building 1700 renovation included the reconfiguration of existing interior spaces, removal and replacement of the existing gymnasium floor, construct a new main entry at the south side of the building, removal of the existing roof and HVAC equipment and install new to Building 1700. The project involved upgrade of the existing electrical and lighting system, providing ADA accessibility throughout the complete building, and the addition of a separate 7,700 sf one story Adaptive Physical Education modular building located east of the main 1700 Building and south of the swimming pool



area. CTS provided steel shop inspections as well as field welding, concrete and rebar placement, soils compaction testing and torque testing. CTS also provided geotechnical engineering for the stabilization and preparation of the building pad for the proposed Building 1700B Adaptive PE Building.

Delta College, Cunningham Math and Science Center, Stockton, CA

Brian was an onsite welding inspector providing visual inspection of welding in progress on this project. The new 100,000 sf Cunningham building is envisioned as a large science and math complex with cutting-edge technology and a modern, open design that is much different than the cramped corridors and busy laboratories of the existing structure. The 3-story structure houses dry labs on the first floor, wet Biology labs on the second floor, and Chemistry labs on the third floor with offices, labs, and classrooms on each floor for each discipline. The labs wrap around a central service core consisting of tech offices, lab prep. rooms and lab storage rooms. CTS is providing materials testing and inspection services on this project. CTS' scope includes soils testing and observation of earthwork activities; observations of roofing, fireproofing, masonry, concrete and rebar placement as well as steel shop and field welding inspections.

Yuba Community College District, Building 1000 Reconstruction, Marysville, CA

Brian was an onsite inspector for this project providing field welding inspections and proof load testing. This reconstruction project of Yuba Community College District's Liberal Arts Building was part of the District's \$190M Measure J Bond Program to renovate and/or remodel classrooms and studios for safety, energy efficiency, improved computing and instructional technologies, and improved disabled access. CTS performed testing and inspections which included field welding, shop welding, concrete, epoxy-set bolts, proof load, and pull testing.

San Francisco Unified School District, Various Bond Modernization Projects, San Francisco, CA

Brian has been one of CTS' special inspectors for various DSA-governed projects under a \$2M+ to date contract to provide testing and inspections at more than 20 K-12, middle and high school campuses for San Francisco USD's bond measure funded modernization projects. Brian performed offsite shop welding inspection and shop and field nondestructive testing. Brian worked on the following SFUSD projects: *Raoul Wallenberg High School and Monroe Elementary School.*

St. Helena High School Vocational Education Complex, St. Helena, CA

This \$13.5M Vocational Education Complex is part of the St. Helena Unified School District's Measure B which funds \$30M in new construction and improvements to classrooms and facilities at St. Helena High School and Robert Louis Stevenson Middle School. The 25,000 sf vocational education complex includes several buildings – mechanics, science, culinary arts, horticulture – and barn. Brian provided shop welding inspections and field and shop nondestructive testing.



Related Project Experience with References

Below are CTS's five (5) more recent projects of similar size and scope, including references):



San Joaquin Delta College, Cunningham Math and Science Building, Stockton, CA

Owner/Owner Rep.: Kitchell CEM c/o San Joaquin Delta Community College District/Martha Estrada, 530.632.3406
(Martha is now with San Juan USD)

Brief Description: The new 100,000 sf Cunningham building is envisioned as a large science and math complex with

cutting-edge technology and a modern, open design that is much different than the cramped corridors and busy laboratories of the existing structure. The 3-story structure houses dry labs on the first floor, wet Biology labs on the second floor, and Chemistry labs on the third floor with offices, labs, and classrooms on each floor for each discipline. The labs wrap around a central service core consisting of tech offices, lab prep. rooms and lab storage rooms. CTS is providing materials testing and inspection services on this project. CTS' scope includes soils testing and observation of earthwork activities; observations of roofing, fireproofing, masonry, concrete and rebar placement as well as steel shop and field welding inspections.

Scope of Services: CTS provided observations of masonry, concrete and rebar placement as well as soils testing and observation of earthwork activities and steel shop and field welding inspections.

San Mateo County Community College District, Canada College Science and Technology

Buildings B23 Increment 1 & 2, Redwood City, CA

Owner/Owner's Rep: San Mateo County Community College District, Sajid Sulaiman, 650.208.8359

Brief Description: The new 50,000 sf building will provide a modern instructional facility for lab sciences and technology. Along with the adjacent plaza, the building will draw students to the north end of the central circulation corridor of the campus. Building 23 is being designed with energy conservation measures and components, to receive LEED Gold Certification, and is envisioned to be a

magnet to draw students, staff and visitors, to the north end of the campus.

CTS Scope of Services: CTS is the firm of choice to provide all testing and inspection services for this project including concrete placement, epoxy bolts/proof load, field and shop steel welding and batch plant inspections.

Solano Community College District, Biotechnology and Science Building, Increment 1 & 2,

Fairfield, CA

Owner/Owner Rep.: Solano Community College District c/o Kitchell CEM, Jason Yi, 707.864.7000

Brief Description: The new construction consists of approximately 33,000 square feet of space on a single floor. The new building will tie into the existing building to promote interaction among the students and will have a Biotechnology Suite consisting of 4 laboratories with anterooms, prep

spaces, clean rooms and a viewing gallery. Also included are 2 Biology Labs with a connecting prep space, an Anatomy Lab for both dry and wet work areas and storage, a Chemistry Lab with storage and prep spaces, faculty offices and student interactive spaces. The Building will be constructed on the North end of the existing Vacaville Center Classroom Building. Demolition of certain site work, concrete drive aisles and walks including trees and plantings will be included in this project. Infrastructure and utilities will tie into existing onsite services as well as a joint trench from North Village Parkway. An emergency generator will be installed to serve the building during times of power interruptions. Increment 2 scope includes civil, structural, architectural, fire protection, plumbing, mechanical, and electrical for the new teaching facility.

Scope of Services: CTS' scope of work includes material identification, rebar sampling, observation of concrete batch plant operations, concrete sampling, rebar sample and tag, reviewing welder qualifications, observing welding in progress, soil compaction testing, and UT testing.





San Mateo County Community College District, Skyline College B12N Environmental Sciences Building, San Mateo, CA

Owner/Owner Rep.: San Mateo Community College District, Jose Nunez, 650.358.6836

Brief Description: The SKY B12 New Environmental Science Building ("Project") is a public works project on the District's Skyline College. The project generally consists of a new 21,000sf building including 2 lecture halls, 2 classrooms, catering kitchen,

gathering space for 290 people, outdoor learning environment, glass expansive west facing views with minimum obstructions and geexchange, heat recovery system.

Scope of Services: CTS is performing all testing and inspection services including concrete, masonry, grout, coring, GFRC, onsite and offsite welding, batch plant, rebar sample and tag, masonry sample and tag and all required laboratory testing per DSA requirements.



Solano Community College District, Horticulture and Plant Science Institute, Fairfield, CA

Owner/Owner Rep.: Solano Community College District c/o Kitchell CEM, Brian Bush, 408.710.5093

Brief Description: This is a Design-Bid-Build project to provide improvements to the Horticulture site. The project consists of extensive infrastructure improvements including; water, sewer, electrical, and gas utilities along with new concrete, AB, and AC

surfaces to be run from existing locations to those shown on the plans. Two (2) new buildings are planned to be constructed on the site for use by the horticulture staff and the public.

Scope of Services: CTS performed geotechnical engineering, special inspections and material testing services including soils, concrete, epoxy bolts/wedge anchors/proof load, onsite and offsite welding, high strength bolting, batch plant, rebar sample and tag and all required laboratory testing per DSA requirements.

Size and Location(s) of Firm

Founded in 1994, **Construction Testing Services (CTS)** has provided full service special inspection, material testing and engineering for nearly \$30 billion in construction, ranging from transportation and site work to water resource projects, K-12 schools and universities to laboratories and hospital facilities, civic centers and libraries to corporate office campuses, and hotels and parking structures to police and fire stations.

CTS' 280+ member staff includes licensed engineers, inspectors and technicians who are experienced in all types of construction. Our proactive, budget-conscious management style will help you monitor your project for cost effectiveness while covering all aspects of required inspections per approved plans and specifications; city and county, state and special district rules and regulations; and applicable California Building Code (CBC) requirements. *We specialize in construction services that require resident inspectors who are multi-disciplined in more than one construction technique.*

Office Locations

CTS has seven (7) office locations from which to serve our clients' project needs. Services on your contract will be performed at our corporate office and full service, accredited laboratory in Pleasanton.

LOCAL Headquarters and Full-Service, Accredited Laboratory (LEA 151)

2118 Rheem Drive (within a few miles for the LPC campus)

Pleasanton, CA 94588

Telephone: 925.462.5151

Fax: 925.462.5183



Other office locations

San Jose, Oakland, San Francisco, Rocklin (includes full-service lab LEA 247), Stockton and Las Vegas, NV.

Years in Operation

27 years

Professional and Technical Staff Size/Resources

CTS' 250+ member staff includes licensed engineers qualified through the State Board of Registration for Professional Engineers and project managers and special inspectors who are multi-disciplined. On the operations side, CTS offers staff engineers, laboratory managers and quality control managers who are familiar with the characteristics of new construction, application of plans and specifications and are well-versed in California Building Code (CBC) under International Building Code (IBC) Sections 1701 and 1703, "Guidelines for Special Inspection in Construction." Many of CTS' staff members have been with the firm since its inception. On average, our employees have been with us for approximately ten years.

Following is CTS personnel shown by type and position:

Principal-in-Charge – 1
Civil Engineers – 7
Geotechnical Engineers – 2
Project Managers – 12
Staff Engineers – 10
Field Supervisors – 3
Laboratory Technicians – 10
Soils/Geotechnical Technicians – 36
Senior Level Special Inspectors – 48
Special Inspectors - 75
Administration – 24
Interns – 5

Qualifications, Certifications and Capabilities

- **Our inspectors and technicians are certified by:**
 - International Code Council (ICC)
 - American Welding Society (AWS)
 - American Society for Nondestructive Testing (ASNT)
 - American Concrete Institute (ACI)
 - Division of State Architect (DSA)
 - Caltrans
 - U.S. Army Corps of Engineers (USACE)
 - Office of Statewide Health Planning and Development (OSHPD)
- **Our laboratories are regularly reviewed and accredited by:**
 - Special Inspection Committee of the International Code Council (ICC)
 - Cement and Concrete Reference Laboratory (CCRL)
 - Division of State Architect (DSA)
 - American Association of State Highways and Transportation Officials (AASHTO)
 - U.S. Army Corps of Engineers (USACE)
 - Caltrans
 - International Accreditation Service (IAS)
 - OSHPD Preapproved Agency (OPAA)
- **Engineering specialists:**
 - Registered and experienced civil engineers
 - Registered and experienced geotechnical engineers
 - Quality Control Program

Professional Registrations

Patrick Greenan, PE, President/Principal-in-Charge
Registered Civil Engineer, CA, No. C57299, 1997
Bradford Quon, GE, Senior Project/Geotechnical Engineer
Registered Geotechnical CA, No. 2841, 2009 and Civil Engineer CA, No. C62900, 2002
Dan Ventura, PE, Associate Engineer
Registered Engineer, California, No. C81280, 2013
Andrew Poelvoorde, PE, QSD, Associate Engineer
Registered Engineer, California, No. C86532, 2016
Dan Ventura, PE, Associate Engineer
Registered Engineer, California, No. C81280, 2013
John Harms, PE, Associate Engineer
Registered Engineer, California, No. C89209, 2018



Firm Members' Certifications

Certification Type	No. of Staff Certified
ICC Master of Special Inspection	8
ICC Prestressed Concrete	40
ICC Reinforced Concrete	47
ICC Structural Masonry	41
ICC Structural Steel and Welding	28
ICC Structural Welding	20
ICC Structural Steel and Bolting	26
ICC Spray-applied Fireproofing	30
ICC Soils	7
AWS Certified Welding Inspector	34
NDT Level I – Ultrasonic, Magnetic Particle and Dye Penetrant and Radiographic	26
NDT Level II – Ultrasonic, Magnetic Particle and Dye Penetrant and Radiographic	20
NDT Level III – Ultrasonic, Magnetic Particle, Dye Penetrant and Radiographic	1
ACI Field Testing Technician, Grade I	83
NACE Level II Coating Inspection	2
Caltrans	18
USACE, Construction Quality Management for Contractors	6
Transportation Worker Identification Credential (TWIC)	4
Asbestos Safety Training	2
Nuclear Gauge Operators	62

Full-Service Testing Laboratories

Construction Testing Services (CTS) maintains and operates three fully accredited, full-service laboratories, located in Pleasanton and Sacramento, Calif. and Las Vegas, Nevada. An independent testing laboratory, we have the experience and capability to conduct testing and inspecting for all materials involved in the construction of your concrete DSA structure, including concrete, steel and bolt testing addressing various requirements of American Society for Testing and Materials (ASTM) and DSA. *All testing under this contract will be performed at our DSA/Caltrans/CCRL/IAS/U.S. Army Corps-accredited headquarters laboratory, located at 2118 Rheem Drive, Pleasanton, CA (LEA 151), which is located within miles of the LPC campus. CTS will not charge travel time and mileage to and from the jobsite due to the proximity.*

Laboratory Qualifications

Laboratory Name: Construction Testing Services

Address: 2118 Rheem Drive, Suite A
Zip: 94588

City: Pleasanton

Phone: (925) 462-5151

Acceptance/Renewal Date: 05/08/2017

Expiration Date: 05/08/2021

Engineering Manager (EM): Dan Ventura

NDT Level III Administrator: Charles O'Hare

Email: dventura@cts-1.com

Laboratory Supervisor(s): James Peters

Field Supervisor(s): Ron Harr

Structural Test Qualifications

- Soils
- Aggregates
- Reinforcing Steel
- Post Installed Anchors
- Concrete
- Shotcrete
- Structural Masonry
- Other: Fiber-Reinforced Polymer (FRP), Roofing
- Structural Steel
- High Strength Bolts
- Non Destructive (NDT)

Special Inspection Qualifications

- Earthwork
- Reinforced Concrete
- Prestressed Concrete
- Post Installed Anchors
- Shotcrete
- Structural Masonry
- Structural Welding
- Other: Fiber-Reinforced Concrete
- High Strength Bolting
- Spray-Applied Fireproofing
- Batch Plant (Continuous)



Around the Clock Testing Capabilities

CTS runs second and third shifts in our laboratory, 15 hours a day, and has more than 160 certified technicians who are qualified to handle your project, provide around-the-clock sampling, and early concrete breaks to meet the testing needs of this project. In addition, we are prepared to accommodate first and second shift inspections as well as Saturday pours and specialized testing. We are confident in our ability to produce timely and accurate results and are prepared to dedicate the inspections and testing staff required to meet your project objectives. We also offer lab rush services!

Laboratory Equipment

CTS' laboratories are fully equipped to perform materials testing including rebar tensile and bend tests, high strength bolt assembly tests, concrete, masonry and soils. Below is a sampling of CTS' \$2M inventory of lab equipment:

10 Water Tank Temperature Recorders	1 INSTRON 1000 HDX Universal Machine
6 Concrete Compression Machines	3 Cal 216 Compaction Apparatus
7 Temperature Chart Recorder	110 Sieves
1 Thermo-Humidigraph	5 Sieve Shaker
50 Concrete Cylinder Single Use Molds	28 Nuclear Gauges (ASTM & Caltrans)
50 Humboldt Brass Cube Molds	4 Sand Equivalent Shakers
30 Reusable Flexural Molds	3 Wash Vessel
20 Reusable Shrinkage Molds	3 Durability Index Apparatus
10 Reusable 2-in Cube Molds	10 Liquid Limit Devices
4 Sulphur Capping Compound	10 Sample Splitters
20 Unbonded Caps	4 Behlen Country Tanks
5 Vertical Cylinder Capper	3 Ideal Holding Tanks
120 Slump Cones & Tamping Rods	3 HW Tank
12 Unit Weight Equipment	4 Chop Saw
12 Air Content (Volumetric Method)	4 GPR's
12 Air Content (Pressure Method)	3 Floor Flatness Dipstick 2272
6 Reference Thermometers	3 6 inch Caliper
12 Digital Scale	4 Time Clock
2 Platform Scales	6 Digital Thermometer
2 Hi-Lo Alert Probe Thermometers	2 30 Ton Ram
14 Digital Fractional Caliper	5 Dual 5 Ton Ram
4 Feeler Gauge	6 Single 10 Ton Ram
3 Micrometer	17 Torque Wrench
3 Sling Psychrometer	5 Automatic Hammer
2 Infrared Thermometers	8 Lab Ovens
3 Press-Aire Meter	3 Melting Pot and 3 Sulfur Pot
2 Comparator	2 Extensometers
2 Hamburg Wheel	10 Tank Heaters
2 Gyrotory Compactor	2 Shrinkage Reference Bars
1 R-Value Machine	1 United Compression Machine



CTS also has an INSTRON 1000 HDX Universal Machine that will be used to perform rebar tensile and bend tests as well as high strength bolts tests for your project. This machine is designed for high-capacity tension, compression, bend/flex, and shear testing, the 1000HDX Model is powered by a hydraulic pumping system that moves a piston assembly to provide the forces necessary for testing. These services can be performed in-house with precision and timely and accurate results.



CTS understands that project will start in June 2021 and will take approximately 700 calendar days from the NTP. At this time, CTS understands that the general contractors are still bidding this project so a detailed schedule by activity and the offsite steel fabricator is unknown (increment 2 steel will likely go to Wisconsin, one shop that runs 3 shifts/24 hours per day). CTS will provide a resident inspector to cover all services of the new PSC and AMT facilities at Las Positas College as well as sitework, accessibility scope, restrooms and drinking fountains for increment 1 and the three-story fire training apparatus (FTA) for increment 2.

CTS' proposed staff includes licensed engineers qualified through the State Board of Registration for Professional Engineers and project managers and special inspectors who are multi-disciplined. On the operations side, CTS offers staff engineers, laboratory managers and quality control managers who are familiar with projects of similar size and complexity, including experience with the requirements of projects under DSA jurisdiction, characteristics of new construction, application of plans and specifications and are well-versed in California Building Code (CBC) under International Building Code (IBC) Sections 1701 and 1703, "Guidelines for Special Inspection in Construction."

Chabot-Las Positas Community College District – Point of Contact

Brian Joyce, DSA Project Manager
2118 Rheem Drive
Pleasanton, CA 94588
Phone: 925.519.0257
Email: bjoyce@cts-1.com

Approach

CTS' method for success exists within our communicative project management team. We have a process in place for every scenario and our team communicates on a regular basis to assure that our clients and their project are being taken care of in a professional and timely manner. The CTS team provides owners with thorough project management—our project management includes weekly review of time sheets and monthly review of invoices and budget. CTS provides a budget analysis so you know where you stand compared to the original budget each month. CTS has established customer-focused procedures, producing efficient, hands-on project management.

Our proposed work plan includes onsite and offsite material testing services in accordance with the plans and specifications, DSA requirements and will be per code. The protocol we will follow to help Chabot-Las Positas CCD achieve its goals will consist of communication, implementation/execution, and **reporting**. Before any works begins, CTS' team would schedule a meeting with the Project Managers, client representatives, and our staff to obtain a general understanding of the contract objectives and the District's expectations and procedures for each project. This would be the first step in assuring that we keep the lines of communication open between all parties involved.

Pre-Construction Meeting: For larger or complicated projects we suggest a pre-construction meeting be initiated with the Project Manager, Superintendent and/or IOR, client representatives, and our staff to identify inspections outlined in the testing and special inspections section of the plans and specifications. The intent of this pre-construction meeting would be to obtain a general understanding of the project objectives between our field inspectors and dispatcher and the rest of the project team.

Dispatch: Our inspectors are readily available provided a minimum of 24 hours' notice is given. We also understand the complexity of schedules and schedule changes and will work with your project team to provide services at a moment's notice. This will allow for flexibility in scheduling. The PM and/or Superintendent will contact our dispatcher to schedule inspections and/or sample pick-ups. Upon receipt of an inspection request from the project PM and/or Superintendent to our central dispatcher, DSA/ICC/AWS/Nuclear Gauge qualified inspectors will perform the inspection(s) as per approved standards accordingly.

Immediate Response: Any outstanding issues are punch-listed and **reported immediately** to the client for resolution. Our inspectors are equipped with the testing and inspection tools needed to accomplish the desired test or inspection. They also carry cell phones with which will allow them to communicate with Supervisory staff for technical support in a timely manner. Samples are picked up timely and transported in accordance with applicable ASTM and/or DSA standards to our local laboratory for further analysis and testing.



Engineering: Our engineers are heavily involved in our projects from report and laboratory testing reviews to actual field explorations and observations. Our engineers are here to support our clients and are available for consultations and geotechnical investigations. Our engineers are knowledgeable of different material types and troubleshooting possible exceptions. CTS will assume the role as GEOR during construction as well.

Safety: The safety of our team and those on the construction site is of utmost importance. Our team is equipped with the necessary safety gear including hard hats, safety glasses, safety vests, etc. Our inspectors understand the critical importance of following site safety guidelines and encourage others to do the same. CTS will also comply with all onsite COVID safety plans as well as adhere to our own COVID plan within our offices and laboratories.

Budget Tracking: Our monthly budget analyses are provided on a monthly basis. This tool assists our clients in tracking their testing and inspections budget. We will filter in the estimated dollar amounts per scope item from the agreed upon preliminary estimate. These amounts are then tracked monthly.

Client Relations: Your project manager will meet with the client and/or their project team on a monthly basis as needed, or as requested by client to review the budget. For example: after being awarded the Stanford Linear Accelerator project in Menlo Park; our geotechnical engineer was being dispatched frequently to where there was insufficient budget for that portion of the scope. We notified the SLAC project team immediately and initiated a meeting to resolve the issue. Contract and scope modifications were adjusted accordingly and the project team was advised to dispatch responsibly.

Catering to our Clients: CTS is willing to cater our services to our clients' needs. For example, CTS provided more than the regular scope of special inspection and testing services for the San Jose State University Village Campus Housing project. We are essentially providing a building department for the project, covering mechanical, electrical, plumbing and smoke control inspections. Our Inspector of Record led a team of inspectors under the direction of the State Fire Marshal. At one point, CTS had 10 inspectors on site.

DSA Reporting and Closeout

Since our inception over 27 years ago, CTS has provided testing and inspection for a long list of community college district clients throughout Northern California. Our team understands policies and procedures surrounding reporting under DSA jurisdiction and have processes in place that have been proven in the field.

Daily Field Reports: Our inspectors will leave a daily field report (DFR) at the jobsite daily with the IOR and/or project team and a copy is sent to CTS to be typed up by our operations team. CTS is also familiar with using onsite reporting tools and programs to provide electronic report (using laptop or tablets in the field).

Electronic Weekly Reports: Our operations team types up all DFRs that are submitted for the week's work. Typed inspection reports are distributed the following week to the District, IOR, general contractor, architect via mail or e-mail or as requested by client. These reports include computer generated, typed reports summarizing the weekly activities and test results. CTS also has the ability to submit these reports as requested by your project team via email or posted through a web portal.

Electronic Lab Reports: Typed laboratory testing reports are also distributed the following week from the day the laboratory test was performed, per project specifications. All lab results will be reported on DSA lab data sheets to ensure that results meet DSA-approved requirements and sent to DSA and client. Sub-standard results are immediately faxed and phoned to the proper team members, as well as the owner.

Reporting to DSA: All documents are uploaded in the CTS assigned DSA box account (hardcopies are no longer provided to DSA).

Project Closeout: As each scope item is completed (or phased), CTS issues interim verified reporting (per the inspection card Form 152). CTS' experience with DSA projects has given our team a solid understanding of the DSA daily and close-out procedures. Our inspectors, lab technicians and operations team have access to all DSA data sheets, as well as final reports (i.e. DSA-291, DSA-292 and DSA-293) and comply with DSA protocol.

Final Inspection Report Delivery: Upon completion of testing and inspections for each project, a final affidavit will be created then reviewed for completeness and quality and signed off by a licensed engineer assigned to the District.

Exhibit A

Testing and Inspection Proposal Form

Proposal Information:

Firm Name Construction Testing Services, Inc.

DSA LEA Number 151

Authorized Signature 

Printed Name Aaren Solis


Date 4/29/2021

Base Bid (amount shall be shown both in words and figures. In case of discrepancy the amount shown in words shall govern. Proposal amount shall include all testing, inspections, travel time, shipping charges and applicable taxes to complete the testing and inspection work as required).

three hundred and seventy six thousand,three hundred Dollars (\$ 376,347)
and forty seven dollars

ACKNOWLEDGMENT

By signature below, pricing for the testing and special inspection services for the New B2100 Biology Annex. Project at Chabot College will be guaranteed to the Chabot-Las Positas Community College District effective the date accepted by the District Board of Trustees.


Signature
(Authorized Agent of Company)

4/28/2021
Date

Exhibit B

Proposal for Materials Testing and Inspection Services
Chabot-Las Positas Community College District
Las Positas College PSC/AMTFacilities

Company Name Here:	Construction Testing Services, Inc.				
	A	B	C	D	
Item	Description	Units	Rate per Test	Number of Tests	Total
1	SOILS				
	Probe Test (technician)	hr.	\$ 105.00	344	\$ 36,120.00
	Price per compaction test (nuclear gauge test)	ea.			included above
	Sampling at site, grading of soils, compaction curves	hr.			included above
	Soils Qualification Tests (see attached breakdown of tests)	ea.			\$ 2,266.00
	Moisture Curve Density	ea.	\$ 200.00	20	\$ 4,000.00
2	ASPHALTIC CONCRETE				
	AC Paving Placement	hr.	\$ 105.00	40	\$ 4,200.00
	Sub-base/ Base Compaction	hr.	\$ 105.00	100	\$ 10,500.00
	Equipment Fee	hr.			no charge
	Stabilometer Value	ea.			n/a
	Extraction/Gradation	ea.			n/a
	Maximum Density/ Specific Gravity	set	\$ 220.00	5	\$ 1,100.00
3	REINFORCING STEEL SAMPLING & TESTING				
	Sampling and Tagging of Reinforcing Steel (Tensile & Bend)	hr.	\$ 88.00	80	\$ 7,040.00
	Field Placement Inspection	hr.			n/a - IOR
	Testing of Reinforcing Steel (tensile) (Lab)				
	Rebar Tensile Tests (#3-8)	ea.	\$ 125.00	28	\$ 3,500.00
	Rebar Tensile Tests (#9-11)	ea.	\$ 135.00	4	\$ 540.00
	Rebar Bin Tests	ea.			included above
	Testing of Reinforcing Steel (bend) (Lab)	ea.			included above
4	CONCRETE				
	Sampling for each concrete pour and slump test at jobsite	hr.	\$ 88.00	192	\$ 16,896.00
	Concrete Cylinder Compression Tests (3 Field Samples)	ea.			n/a
	Concrete Cylinder Compression Tests (5 Field Samples)	ea.	\$ 20.00	350	\$ 7,000.00
	Concrete Cylinder storage	ea.			no charge
	Concrete Specimen Pickup (JOB SITE)	trip	\$ 7.00	350	\$ 2,450.00

Exhibit B

Proposal for Materials Testing and Inspection Services
Chabot-Las Positas Community College District
Las Positas College PSC/AMTFacilities

<i>Item</i>	<i>Description</i>	<i>A Units</i>	<i>B Rate per Test</i>	<i>C Number of Test</i>	<i>D Total</i>
	Concrete mix design review (no trial Batch)	ea.	\$ 216.00	8	\$ 1,728.00
	Batch Plant Inspection (full time/part time)	hr.	\$ 88.00	220	\$ 19,360.00
	Concrete Core Samples	ea.			n/a
	Concrete Core Compression Tests	ea.			n/a
5	STRUCTURAL STEEL (Shop and Field)				
	Shop Fabrication & Welding Inspection for Structural Steel (day)	hr.	\$ 88.00	520	\$ 45,760.00
	Shop Fabrication & Welding Inspection for Structural Steel (night)	hr.	\$ 99.00	520	\$ 51,480.00
	Shop Fabrication & Welding Inspection for Structural Steel (day OT)	hr.	\$ 132.00	60	\$ 7,920.00
	Shop Fabrication & Welding Inspection for Structural Steel (night OT)	hr.	\$ 148.50	60	\$ 8,910.00
	Shop Fabrication & Welding Inspection for Misc/Stairs (day)	hr.	\$ 88.00	80	\$ 7,040.00
	Field Erection & Welding Inspection	hr.	\$ 88.00	512	\$ 45,056.00
	Tensile test	ea.			n/a
	Bend Test	ea.			n/a
	Welding Procedures/WPS Review	ea.	\$ 216.00	4	\$ 864.00
6	GLU-LAM BEAMS (SHOP)				
	Shop Fabrication Inspection	hr.			n/a
7	PULL OUT TESTING				
	Epoxy Bolts/Expansion Anchor Pull Out Testing/Install/Torque Testing	hr.	\$ 88.00	192	\$ 16,896.00
8	Roofing				
	Pre-job Conference	hr.			n/a
	Continuous Inspection	hr.			n/a
	Roofing Test	ea.			n/a
9	ADDITIONAL SERVICES				
	Mileage Rate (if any)	mile	\$ -		no charge
	List schedule of professional rates for items not listed above:				
	Footing Inspections (Staff Engineer - Jobsite)	hr.	\$ 105.00	32	\$ 3,360.00
	DSA Masonry - Level 2	hr.	\$ 102.00	376	\$ 38,352.00
	Masonry Testing (Lab) - see attached list of tests required	ea.			\$ 5,680.00
	Non-Shrink Grout (Lab)	ea.	\$ 45.00	15	\$ 675.00
	HSB Assembly (Lab)	ea.	\$ 150.00	21	\$ 3,150.00
	Anchor Bolt Tension Test (Lab)	ea.	\$ 325.00	6	\$ 1,950.00
	Sample Pick-ups (excluded concrete, included above)	ea.	\$ 7.00	211	\$ 1,477.00
	Subsistence (daily) (for Wisconsin fab for inc 2)	ea.	\$ 120.00	42	\$ 5,040.00
	Skidmore Equipment Fee (daily)	ea.	\$ 115.00	3	\$ 345.00
	Staff Engineer	hr.	\$ 105.00	16	\$ 1,680.00
	Project Manager	hr.	\$ 100.00	16	\$ 1,600.00
	Field Supervision	hr.	\$ 100.00	18	\$ 1,800.00
	GEOR	hr.	\$ 200.00	24	\$ 4,800.00
	Associate Engineer - Report Review/Prep	hr.	\$ 125.00	18	\$ 2,250.00
	Principal Engineer	hr.	\$ 281.00	2	\$ 562.00
	Escalation (work after 7/1/2022)	hr.	\$ 4.00	750	\$ 3,000.00

Exhibit B

Proposal for Materials Testing and Inspection Services
 Chabot-Las Positas Community College District
 Las Positas College PSC/AMTFacilities

<i>Item</i>	<i>Description</i>	A	B	C	D
		<i>Units</i>	<i>Rate per test</i>	<i>Number of Test</i>	<i>Total</i>
	All above unit prices to include necessary equipment, report time, supervision time, clerical time, misc. documents, and other charges necessary to support such activity.				
	Provide minimum requirements (if any).	4 and 8 hours per Union agreement			
	Address if travel time is to be charged to job site, from job site, both to and from job site, or not at all.	No travel time and mileage will be charged to jobsite			
	Projected Total				\$ 376,347.00



DATE: 04/29/21
 PROPOSAL No.: P19612A
 CLIENT: CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT
 PROJECT: LAS POSITAS CCD SAFETY CENTER INC-1
 LOCATION: LIVERMORE, CA

ITEM: I ONSITE TESTING & INSPECTIONS	ESTIMATED DAYS	ESTIMATED HOURS	UNIT PRICE	ESTIMATED TOTAL
CONCRETE (IOR TO INSPECT REBAR & CONCRETE PLACING)				
PIERS	2	4	\$88	\$704
FOOTINGS/GRADE BEAMS	6	8	\$88	\$4,224
NON-SHRINK GROUT - COLUMN BASEPLATES	4	4	\$88	\$1,408
SLAB ON GRADE	5	8	\$88	\$3,520
OTHER - MISC CONCRETE	8	4	\$88	\$2,816
DSA MASONRY - LEVEL 2				
MASONRY UNIT PLACEMENT	25	8	\$102	\$20,400
PRE-GROUT REBAR INSPECTIONS	10	4	\$102	\$4,080
GROUT PLACEMENT	10	8	\$102	\$8,160
CMU CORING	1	8	\$102	\$816
VENEER PLACING INSPECTIONS	6	8	\$102	\$4,896
STRUCTURAL STEEL				
ERECTION/MEMBER VERIFICATION/BOLTING	16	4	\$88	\$5,632
SKIDMORE TESTING	2	4	\$88	\$704
SKIDMORE EQUIPMENT FEE (DAILY)	2	1	\$115	\$230
FIELD WELDING/UT/MT	40	8	\$88	\$28,160
MISC FIELD TESTING SERVICES				
EPOXY REBAR/BOLTS - INSTALL OBSERVATION	10	4	\$88	\$3,520
EPOXY REBAR/ BOLTS - PROOF LOADING/PULL TESTING	10	4	\$88	\$3,520
EXPANSION ANCHOR - INSTALL OBSERVATION	10	4	\$88	\$3,520
EXPANSION ANCHOR - TORQUE TESTING	10	4	\$88	\$3,520
ESCALATION (STARTING JULY 1, 2022), ASSUMES 54/HOUR		625	\$4	\$2,500
GEOTECHNICAL				
ROUGH GRADING (BUILDING PAD OVEREXCAVATION AND BACKFILL)	10	8	\$105	\$8,400
ROUGH GRADING (SELECT FILL OR LIME TREAT BUILDING PADS)	10	8	\$105	\$8,400
ROUGH GRADING (LIME TREAT PAVEMENT SUBGRADES)	3	8	\$105	\$2,520
TRENCH BACKFILL	40	4	\$105	\$16,800
SITWORK SUBGRADE	10	4	\$105	\$4,200
SITWORK BASEROCK	10	4	\$105	\$4,200
PAVEMENT BASEROCK	5	4	\$105	\$2,100
A/C COMPACTION	5	8	\$105	\$4,200
FOOTING INSPECTIONS (STAFF ENGINEER)	8	4	\$105	\$3,360
<i>Preliminary Sub-Total of Onsite Testing & Inspection (approx.)</i>				\$156,510

ITEM: II OFFSITE TESTING & INSPECTIONS	ESTIMATED DAYS	ESTIMATED HOURS	UNIT PRICE	ESTIMATED TOTAL
STEEL SHOP VISUAL/UT/MT - DAY SHIFT *	50	8	\$88	\$35,200
STEEL SHOP VISUAL/UT/MT - NIGHT SHIFT *	50	8	\$99	\$39,600
BATCH PLANT	31	4	\$88	\$10,912
REBAR SAMPLE & TAG	8	8	\$88	\$5,632
<i>Preliminary Sub-Total of Offsite Testing & Inspection (approx.)</i>				\$91,344

ITEM: III LABORATORY TESTING & ENGINEERING	ESTIMATED UNITS/HOURS	UNIT PRICE	ESTIMATED TOTAL
CONCRETE COMPRESSION TESTS (SET OF 5-4x8 CYLINDERS)	295	\$20	\$5,900
MASONRY ASTM C140 PRECONSTRUCTION TESTING	6	\$200	\$1,200
MASONRY MORTAR COMPRESSION TESTS	52	\$40	\$2,080
MASONRY GROUT COMPRESSION TESTS	40	\$40	\$1,600
MASONRY CORE SHEAR TEST	4	\$200	\$800
NON SHRINK GROUT - 2"x 2" CUBES	12	\$45	\$540
REBAR TENSILE AND BEND TEST (#3 TO #8)	24	\$125	\$3,000
REBAR TENSILE AND BEND TEST (#9 TO #11)	4	\$135	\$540
HIGH STRENGTH BOLTS ASSEMBLY (Tensile & Hardness)	15	\$150	\$2,250
ANCHOR BOLT TENSION TEST (Tensile & Hardness)	4	\$325	\$1,300
COMPACTION CURVES (ASTM)	20	\$200	\$4,000
GRADATION	3	\$225	\$675
DURABILITY (FINE AND COARSE)	1	\$270	\$270
R-VALUE	1	\$275	\$275
SAND EQUIVALENT	1	\$146	\$146
PLASTIC INDEX	4	\$225	\$900
A/C - THEORETICAL MAX DENSITY	5	\$220	\$1,100
SAMPLE PICK-UPS	491	\$7	\$3,437
WPS REVIEW	2	\$216	\$432
MIX DESIGN REVIEW	5	\$216	\$1,080
STAFF ENGINEER	10	\$105	\$1,050
PROJECT MANAGER	10	\$100	\$1,000
FIELD SUPERVISION	12	\$100	\$1,200
GEOTECHNICAL ENGINEER OF RECORD (REPORT REVIEW, RESPOND TO RFI, ETC)	HOURS	16	\$200
GEOTECHNICAL ENGINEER OF RECORD (TRANSFER OF RESPONSIBILITY - DSA 109)	HOURS	4	\$200
GEOTECHNICAL ENGINEER OF RECORD (DSA 293)	HOURS	4	\$200
PRINCIPAL ENGINEER	1	\$281	\$281
INTERIM AND FINAL LETTER PREP/REVIEW (HOURS) - ASSOCIATE ENGINEER	12	\$125	\$1,500
<i>Preliminary Subtotal of Laboratory Testing & Engineering (approx.)</i>			\$41,356
<i>Preliminary Estimated Fees</i>			\$289,210

* Steel shop price based on work being done in Northern California in one shop and one shift (no shop at time of bid). A 12.5% differential will be charged for work at night.
 No contingency is budgeted by CTS for uncontrollable overtime, union or prevailing wage increases and inspection requirements that may arise in the specifications, as well as for work over the estimated hours. Owner should budget appropriate amount for budgetary purposes.
 Estimate based on plans by Lionakis dated 3/12/21 and DSA 103 File No1-C1 Application No 01-119148 dated 3/18/21. Addenda 1 and 2 were reviewed.
 No detailed construction schedule was available at the time this estimate was prepared. RFP indicated 700 calendar days from NTP with construction to start in June 2021.
 The liability of Construction Testing Services (CTS) is limited to CTS's contract value. No travel time and mileage will be charged to and from the LJC site.
 Geotechnical Engineering Report by Nisayo and there was not available during preparation of this proposal.
 Actual quantities could vary depending on the asphalt pavement sections considered (Detail 1-C-500) and building subgrade prep detail (Detail 1-C-500).



DATE: 04/29/21
 PROPOSAL No.: P19612B
 CLIENT: CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT
 PROJECT: LAS POSITAS CCD SAFETY CENTER INC-2
 LOCATION: LIVERMORE, CA

ITEM: I ONSITE TESTING & INSPECTIONS	ESTIMATED DAYS	ESTIMATED HOURS	UNIT PRICE	ESTIMATED TOTAL
CONCRETE (IOR TO INSPECT REBAR & CONCRETE PLACING)				
FOOTINGS/GRADE BEAMS	2	4	\$88	\$704
NON-SHRINK GROUT - COLUMN BASEPLATES	1	4	\$88	\$352
SLAB ON GRADE	1	4	\$88	\$352
METAL DECK POURS (REBAR/CONCRETE)	3	4	\$88	\$1,056
MECHANICAL PADS	2	4	\$88	\$704
OTHER - MISC CONCRETE	3	4	\$88	\$1,056
STRUCTURAL STEEL				
ERECTION/MEMBER VERIFICATION/BOLTING	6	4	\$88	\$2,112
SKIDMORE TESTING	1	4	\$88	\$352
SKIDMORE EQUIPMENT FEE (DAILY)	1	1	\$115	\$115
FIELD WELDING/UT/MT	10	8	\$88	\$7,040
MISC STEEL/STAIRS - PERIODIC INSPECTION	3	4	\$88	\$1,056
MISC FIELD TESTING SERVICES				
EPOXY REBAR/BOLTS - INSTALL OBSERVATION	2	4	\$88	\$704
EPOXY REBAR/ BOLTS - PROOF LOADING/PULL TESTING	2	4	\$88	\$704
EXPANSION ANCHOR - INSTALL OBSERVATION	2	4	\$88	\$704
EXPANSION ANCHOR - TORQUE TESTING	2	4	\$88	\$704
ESCALATION (STARTING JULY 1, 2022), ASSUMES \$4/HOUR		125	\$4	\$500
<i>Preliminary Sub-Total of Onsite Testing & Inspection (approx.)</i>				\$18,215

ITEM: II OFFSITE TESTING & INSPECTIONS	ESTIMATED DAYS	ESTIMATED HOURS	UNIT PRICE	ESTIMATED TOTAL
STEEL SHOP VISUAL/UT/MT - DAY SHIFT * (WISCONSIN) 1st Shift	15	8	\$88.00	\$10,560
STEEL SHOP VISUAL/UT/MT - DAY SHIFT * (WISCONSIN) 1st Shift OT	15	4	\$132.00	\$7,920
STEEL SHOP VISUAL/UT/MT - SWING SHIFT * (WISCONSIN) 2nd Shift	15	8	\$99.00	\$11,880
STEEL SHOP VISUAL/UT/MT - NIGHT SHIFT * (WISCONSIN) 2nd Shift OT	15	4	\$148.50	\$8,910
SHOP SUBSISTENCE* (WISCONSIN) (2 INSPECTORS FOR 3 WEEKS)	42	1	\$120	\$5,040
STEEL SHOP - VISUAL/UT/MT - MISCELLANEOUS STEEL & STAIRS**	10	8	\$88	\$7,040
BATCH PLANT	12	8	\$88	\$8,448
REBAR SAMPLE & TAG	2	8	\$88	\$1,408
<i>Preliminary Sub-Total of Offsite Testing & Inspection (approx.)</i>				\$61,206

ITEM: III LABORATORY TESTING & ENGINEERING	ESTIMATED UNITS/HOURS	UNIT PRICE	ESTIMATED TOTAL
CONCRETE COMPRESSION TESTS (SET OF 5-4x8 CYLINDERS)	55	\$20	\$1,100
NON SHRINK GROUT - 2"x 2" CUBES	3	\$45	\$135
REBAR TENSILE AND BEND TEST (#3 TO #8)	4	\$125	\$500
HIGH STRENGTH BOLTS ASSEMBLY (Tensile & Hardness)	6	\$150	\$900
ANCHOR BOLT TENSION TEST (Tensile & Hardness)	2	\$325	\$650
SAMPLE PICK-UPS	70	\$7	\$490
WPS REVIEW	2	\$216	\$432
MIX DESIGN REVIEW	3	\$216	\$648
STAFF ENGINEER	6	\$105	\$630
PROJECT MANAGER	6	\$100	\$600
FIELD SUPERVISION	6	\$100	\$600
PRINCIPAL ENGINEER	1	\$281	\$281
INTERIM AND FINAL LETTER PREP/REVIEW (HOURS) - ASSOCIATE ENGINEER	6	\$125	\$750
<i>Preliminary Subtotal of Laboratory Testing & Engineering (approx.)</i>			\$7,716

Preliminary Estimated Fees | \$87,137

*Steel shop price based on work being done in Wisconsin in one shop and three shifts (CTS will provide 2 inspectors to work 12 hour shifts). A 12.5% differential will be charged for work at night.
 **Stair fabricator unknown at the time of bid, estimate based on fabrication in Northern CA, one shop and one shift
 No contingency is budgeted by CTS for uncontrollable overtime, union or prevailing wage increases and unforeseen requirements that may arise in the specifications, as well as for work over the estimated hours. Owner should budget appropriate amount for budgetary purposes.
 Estimate based on plans by Lionakis and DSA 103 File No1-C2 Application No. 01-119148 dated 12/7/20. Addendum 1 and 2 were reviewed.
 No detailed construction schedule was available at the time this estimate was prepared, RFP indicated 700 calendar days from NTP with construction to start in June 2021.
 The liability of Construction Testing Services (CTS) is limited to CTS's contract value. No travel time and mileage will be charged to and from the LPC site.



**2021 FEE SCHEDULE - P19612 04/29/2021
PERSONNEL FEES AND BASIS OF CHARGES
INSPECTIONS, ENGINEERING & SPECIAL SERVICES**

	Standard Rate/Hour	Discounted Rate/Hour
* FIELD INSPECTION AND LABORATORY SERVICE		
Steel Visual	\$225.00	\$88.00
Nondestructive - UT, MT, PT	\$230.00	\$88.00
Steel Visual/UT Combination	\$230.00	\$88.00
Concrete ACI	\$225.00	\$88.00
Concrete ICC	\$225.00	\$88.00
DSA Masonry	\$275.00	\$102.00
Fireproofing	\$225.00	
Shear Wall Nailing/Framing/Hold Downs	\$225.00	
Soil Technician w/Nuclear Gauge and/or Sand Cone <i>(portal-to-portal)</i>	\$225.00	\$105.00
Asphalt Technician <i>(portal-to-portal)</i>	\$225.00	\$105.00
Shoring/Soldier Piers	\$225.00	
Roofing & Waterproofing	\$225.00	
Multi-Disciplined Inspector	\$225.00	
Inspector Requiring G1 Pay Grade	\$275.00	
Specialty Inspector or Where Formal Certification is Required	\$225.00	
Field Inspector with Special Enhancement	\$225.00	
Safety Manager/Safety Inspector/Job-site Safety Accountability Supervisor (JSAS)	\$500.00	
Laboratory Technician	\$225.00	
Technician Typist	\$225.00	
**PROFESSIONAL ENGINEERING SERVICES		
Principal Engineer (Civil/Structural)	\$360.00	\$281.00
Geotechnical Engineer	\$345.00	\$200.00
Professional Geologist	\$300.00	
Consulting Engineer (Civil/Structural)	\$295.00	
Associate Engineer, Licensed	\$256.00	\$125.00
Project Manager	\$225.00	\$100.00
Staff Engineer	\$225.00	\$105.00
Field Supervision	\$225.00	\$100.00
ASNT Level III	\$275.00	
Drafting	\$160.00	
Quality Control Manager	QOR	
SPECIAL SERVICES		
Portable and Mobile Laboratories, NDT and Soils	QOR	
* Epoxy Bolt/Expansion Anchor - Installation Observation	\$225.00	\$88.00
* Epoxy Bolt/Expansion Anchor Proof Load Testing <i>(portal-to-portal)</i>	\$225.00	\$88.00
* Coring, 1 Person (including equipment) <i>(portal-to-portal)</i>	\$300.00	
* Coring, 2 Persons (including equipment) <i>(portal-to-portal)</i>	\$455.00	
* Asphalt Coring <i>(portal-to-portal)</i>	\$325.00	
Project Research	QOR	
Ultrasonic Testing for Non-Metallic Materials	QOR	
Pavement Rehabilitation Analysis Using Deflections	QOR	
Roof Moisture Survey	QOR	
Soil Drilling Equipment	QOR	
Geotechnical Site Investigations/Foundation Reports	QOR	
Pachometer, Schmidt Hammer, Windsor Probe, Skidmore - Equipment Fee \$115/Day <i>(portal-to-portal)</i>	\$300.00	
Floor Flatness Testing FF/FL - Equipment Fee \$115/Day <i>(portal-to-portal)</i>	\$300.00	
Measuring Moisture Vapor Emission Rate (Calcium Chloride) - \$55/Kit <i>(portal-to-portal)</i>	\$300.00	
Relative Humidity Testing - \$75/Kit <i>(portal-to-portal)</i>	\$300.00	
Ferroskan - Equipment Fee \$115/day <i>(portal-to-portal)</i>	\$300.00	
GPR - Equipment Fee \$115/day <i>(portal-to-portal)</i>	\$375.00	
Administration, Secretarial, Special Projects, Notary, Certified Payroll	\$175.00	
Concrete/Grout/Mortar Mix Design Review (less than 48 hours notice - \$500)	\$350.00	\$216.00
Welding Procedure Review (less than 48 hours notice - \$500)	\$350.00	\$216.00
Procedure Qualification Record (PQR) - Standard Procedure (document fee)	\$500.00	
Welding Procedure Specification (WPS) - Standard Procedure (document fee)	\$500.00	
Welder Qualification Test Record (WQTR) - Standard Procedure (document fee)	\$500.00	
DSA Interim Reports	\$485.00	
Geotechnical Pad Letter (less than 48 hours notice - \$550)	\$350.00	Included in hours
Final Letter (less than 48 hours notice - \$550)	\$350.00	Included in hours
EXPERT WITNESS TESTIMONY		
Court appearance, per day	\$2,500.00	
Court appearance, per half day	\$1,500.00	

* Field inspection and laboratory technician services will be billed in accordance with minimums shown on Basis of Charges.

**Professional engineering services will be billed in two hour increments.

BASIS OF CHARGES

GENERAL

Fees for tests and inspection include cost of technician, normal equipment and regular reports. Engineering services will be charged at applicable rates and will require travel and mileage charges for equipment transport and storage per code (portal to portal) from the nearest CTS laboratory. Soils testing with nuclear gauge and/or sand cone equipment and inspections requiring equipment will require applicable travel and mileage charges for equipment transport and storage per code (portal-to-portal) from the nearest CTS laboratory. Fees for special projects, services overseas, or elsewhere in the United States, will be quoted on request. With prior notification to Client; charges are subject to change at any time. Construction Testing Services reserves the right to adjust the rates quoted in this contract based upon any Union or prevailing wage increases and/or changes in any industry requirements.

ESCALATION

Proposed escalation will be effective as for July 1, 2022 (and annually thereafter, if applicable) \$4/hour (rates subject to CA DIR prevailing wages)

MINIMUM HOURLY CHARGES – INSPECTION

Technician personnel and the following minimum charges are contractual commitment:

One-half day or less	4 Hours
Over one-half day	8 Hours
Show-up time (less than 2 hours notice = 4 hour charge)	2 Hours

WORKING HOURS AND PREMIUM TIME

Regular workday is the first 8 hours between 6:00 am and 6:00 pm Monday through Friday. Premium time is as follows:

Overtime, Weekdays and Saturdays (first 8 hours)	1.5 x quoted hourly rate
Overtime Saturdays (over 8 hours) and Sundays (first 8 hours)	2 x quoted hourly rate
Overtime Sundays (over 8 hours) and Holidays	3 x quoted hourly rate
Shift differential, swing and graveyard - (Work performed between 2:00 pm and 4:00 am)	12.5%/hour additional to base or quoted rate.

MISCELLANEOUS CHARGES - Only Where Applicable

Notary Services Fee	\$40.00/each	
Facsimile Charges. Plus \$1.00/page (n/c for cover page)	\$7.00/minimum	
Wireless Router/Data Card for Jobsite Internet	\$135.00/day	
iPad Monthly Rental Fee	\$100.00/month	
Electronic Reporting Fees/Subscriptions (PlanGrid, BIM, etc.)	At Cost	
Parking Fees	At Cost	
Air Travel	Cost Plus 10%	
Outside Services	Cost Plus 20%	
Subsistence (per union contract)	\$130.00/day	
Mileage	Standard Federal Rate	
Sample Pickup	\$30.00/each	\$7.00/each
Weekend Sample Pickup	\$110.00/each	
Project Administration	45% of Monthly Invoice	Included in Rates per RFP
Samples Made by Others: Concrete Cylinders	\$130 + Test	
Samples Made by Others: All Other Tests	\$55.00 + Test	
Laboratory Sample Witness Fee	\$130.00	
Laboratory Sample Storage Fee (per sample)	\$120.00	
EZ Cure Boxes (Thermostatically Controlled Curing Boxes)	QOR	
Returned Check Fee	\$150.00	

TESTS

Testing fees shown include normal time for performing test. Samples requiring special preparation will be charged at the laboratory technician rate. Fees for tests not listed will be quoted upon request. There will be a minimum charge of \$100.00 for any engineering report. Please note some tests maybe tested by subconsultants. Samples delivered to the laboratory after 3:00pm or samples needing results within 24 hours will incur a 50% mark-up.

INSURANCE

The liability of Construction Testing Services (CTS) is limited to CTS's contract value.

PAYMENT

Invoices will be submitted monthly or bimonthly for services performed during the preceding month and are payable on receipt. Interest of 1.5% per month (but not exceeding the maximum rate allowable by law) will be payable on any amounts not paid within 30 days, payment thereafter to be applied first to accrued interest and then to the principle unpaid amount. Attorney's fees or other costs incurred in collecting any delinquent amount shall be paid by client. Visa, MasterCard and American Express payments are accepted however fees will apply. Visa and MasterCard payments require an additional 3% on top of the amount of the invoice being paid. American Express payments require an additional 4% on top of the amount of the invoice being paid.



CONCRETE AND MASONRY TESTS

		Standard Rate/Each	Discounted Rate/Each
CONCRETE			
Compressive Strength of Cylindrical Concrete Specimens (6x12)	ASTM C39	\$85.00	
Compressive Strength of Cylindrical Concrete Specimens (4x8)	ASTM C39	\$85.00	\$20.00
Compressive Strength of Cylindrical Concrete Specimens (Over 8000 PSI)	ASTM C39	\$150.00	
Cylinder molds. 6" x 12" and 4" x 8"	ASTM C470	\$80.00	
Compressive Strength of Lightweight Insulating Concrete	ASTM C495	\$100.00	
Obtaining and Testing Sawed Beams and Drilled Cores of Concrete (Cores)	ASTM C42	\$125.00	
Flexural Toughness of Fiber Reinforced Concrete (Round Panel)	ASTM C1550	\$500.00	
Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	ASTM C78	\$325.00	
Flex Beams per Caltrans Test Methods	CT523 and CT524	\$325.00	
Length Change of Hardened Hydraulic-Cement Mortar and Concrete (Shrinkage, 1 Sample)	ASTM C157	\$165.00	
Shotcrete Nozzleman Qualification Letter (Per Nozzleman, Per Position)	ACI 506, ASTM C42 and C1140	\$450.00	
Shotcrete Pre-Qualification Cores (Compression and Visual)	ACI 506, ASTM C42 and C1140	\$115.00	
Shotcrete Production Cores	ASTM C1140	\$115.00	
Coefficient of Thermal Expansion	AASHTO T336	\$540.00	
Determining Density of Structural Lightweight Concrete (Cylinders)	ASTM C567	\$425.00	
Standard Specification for Concrete Made by Volumetric Batching and Mixing	ASTM C685	\$975.00	
Cement Quality Sampling	CBC 2010	\$675.00	
Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete	ASTM C472	\$60.00	
Splitting Tensile Strength of Cylindrical Concrete Specimens	ASTM C496	\$265.00	
Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	ASTM C469	\$225.00	
Grab Sample, Sealing and Storing in a Humidity and Temperature Controlled Room	CBC	\$155.00	
Density of Hydraulic Cement	ASTM C188	\$200.00	
Testing of Controlled Low Strength Material (CLSM) Test Cylinders	ASTM D4832	\$160.00	
GFRC Pull Test	PCI	\$400.00	
GFRC Flexural Test	PCI	\$400.00	
Foaming Agents for Use in Producing Cellular Concrete Using Preformed Foam (Cell-Crete)	ASTM C796	\$550.00	
MASONRY			
Compressive Testing of Grout (Masonry)	ASTM C1019	\$430.00	\$40.00
Compressive Strength of Hydraulic Cement Mortars Using 2" Cube Specimens	ASTM C109	\$430.00	\$45.00
Compressive Strength of Masonry Prisms	ASTM C1314	\$200.00	
Testing Concrete Masonry Units and Related Units (Core Compression)	CBC 2105A.4	\$200.00	
Compressive Strength of Molded Masonry Mortar Cylinders and Cubes (2" Sample)	ASTM C780 A7.6	\$430.00	\$40.00
Testing Concrete Masonry Units (CMU) and Related Units (Full Unit)	ASTM C140	\$200.00	
Linear Drying Shrinkage of Concrete Masonry Units (Per Unit)	ASTM C426	\$300.00	
Masonry Core Shear Testing	CBC 2105A.4	\$300.00	\$200.00
Testing Concrete Masonry Units (Absorption, Moisture Content, Unit Weight)	ASTM C140	\$375.00	\$200.00
Brick and Clay Tile (modulus of rupture, compression, saturation coefficient, suction rate, efflorescence)*	ASTM C67	\$1,000.00	
Mortar Molds. 2" x 4". Single Use		\$130.00	
Mortar or Grout, Stored and Cured, Not Tested (Including Mold)		\$130.00	
AGGREGATES (SOILS AND CONCRETE)			
Determining Sieve Analysis of Fine and Coarse Aggregates (Coarse Only)	CT202/ASTM C136	\$235.00	
Sieve Analysis of Fine and Coarse Aggregates (Fine Only)	CT202/ASTM C136	\$305.00	
Sieve Analysis of Fine and Coarse Aggregates (Wash Included)	CT202/ASTM C117	\$385.00	
Sieve Analysis of Fine and Coarse Aggregates (200 Wash Only)	ASTM C117/D1140	\$235.00	
Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	ASTM D6913	\$385.00	\$225.00
Evaluating Cleanliness of Coarse Aggregate	CT227	\$385.00	
Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88/CT214	\$300.00	
Unit Weight of Aggregate	CT212	\$200.00	
Clay Lumps and Friable Particles in Aggregates	ASTM C142	\$225.00	
Flat Particles, Elongated Particles or Flat and Elongated Particles in Coarse Aggregate	ASTM D4791/CT235	\$400.00	
Organic Impurities in Fine Aggregates for Concrete	CT213/ASTM C40	\$400.00	
Density, Relative Density(Specific Gravity), and Absorption of Coarse Aggregate	ASTM C127/CT206	\$400.00	
Density, Relative Density(Specific Gravity), and Absorption of Fine Aggregate	ASTM C128/CT207	\$400.00	
Standard Test Methods for Specific Gravity of Soil Solids by Water Pycnometer	ASTM D854	\$400.00	
Resistance to Degradation of Small Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131(535) and C211	\$550.00	
Percentage of Crushed Particles/Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate	ASTM D5821/CT205	\$425.00	
Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading)	ASTM C1252/AASHTO T304A	\$425.00	
Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419/CT217	\$300.00	\$146.00
Durability Index (Fine)	ASTM D3744/CT229	\$425.00	
Durability Index (Coarse)	ASTM D3744/CT229	\$425.00	
Durability Index (Fine and Coarse)	ASTM D 3744/CT229	\$425.00	\$270.00
Lightweight Particles in Aggregate	ASTM C123/AASHTO T113	QOR	
Resistance of Rock to Wetting and Drying	CRD-C169	\$600.00	
Aggregate Moisture Content	ASTM C566	\$600.00	

*Unusual sample preparation for brick specimen will be charged at the established hourly rate.



SOILS, AGGREGATE, ASPHALTIC CONCRETE SERVICES & TESTS

		Standard Rate/Each	Discounted Rate/Each
SOILS			
Direct Shear Test of Soils Under Consolidated Drained Conditions	ASTM D3080	\$550.00	
Consolidated Undrained Triaxial Compression Test for Cohesive Soils (per point)	ASTM D4767	\$1,000.00	
Consolidated Undrained Triaxial Compression Test for Cohesive Soils (added points)	ASTM D4767	\$225.00	
Consolidated Undrained Triaxial Compression Test for Cohesive Soils (single point)	ASTM D4767	\$350.00	
One-Dimensional Consolidation Properties of Soils Using Incremental Loading	ASTM D2435	\$325.00	
Caltrans Corrosivity Package		\$525.00	
Determining Field and Laboratory Resistivity and pH Measurements for Soil and Water	CT643	QOR	
Soils and Waters for Sulfate Content	CT417	QOR	
Soils and Waters for Chloride Content	CT422	QOR	
Particle-Size Analysis of Soils (with Hydrometer)	ASTM D422	\$600.00	
		\$650.00	
Pore Water Extraction and Determination of the Soluble Salt Content of Soils by Refractometer	ASTM D4542	\$550.00	
Standard Test Method for Particle-Size Analysis of Soils (without Hydrometer)	ASTM D422	\$550.00	
Liquid Limit, Plastic Limit, and Plasticity Index of Soils	ASTM D4318/CT204	\$660.00	\$225.00
Laboratory Compaction Characteristics of Soil Using Modified/Standard Effort	ASTM D1557/D698	\$625.00	\$200.00
Hydrometer Only	ASTM D422	\$550.00	
pH of Soils	ASTM D4972	\$500.00	
Relative Compaction of Untreated and Treated Soils and Aggregates	CT216	\$600.00	
Determining the Resistance "R" Value of Treated and Untreated Bases, Subbases, and Basement Soils by the Stabilometer		\$600.00	\$275.00
Laboratory Determination of Water(*moisture) Content of Soil and Rock by Mass	ASTM D2844/CT301	\$165.00	
Density of Soil in Place by the Drive-Cylinder Method	ASTM D2216/CT226	\$125.00	
Expansion Index of Soils	D2937	\$125.00	
ASTM D4829		\$125.00	
Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter (Permeability)		\$575.00	
Lab Compaction Characteristics of Soil 1 Point Proctor (Check Point)	ASTM D5084/CT220	\$350.00	
Maximum Index Density and Unit Weight of Soils Using a Vibratory Table	ASTM D698/D1557	\$300.00	
Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	ASTM D4253	\$300.00	
Density of Hydraulic Cement	ASTM D4254	\$300.00	
Volatile Organic Content	ASTM C188	\$375.00	
Semi Volatile Organics by GC/MS (Basic Target List)	EPA 8260B	QOR	
Total Organic Carbon	EPA 8270C	QOR	
ICP Metals Concentration	ASTM 2974/EPA 5310Bm	QOR	
Total Extractable Petroleum Hydrocarbons: TPH, MTBE, Benzene, Toluene, Ethylbenzene, Zylenes, %SS	EPA 6020 - CAM/CCR 17	QOR	
ICP Metals Concentration	EPA 8015B	QOR	
pH	EPA 6020	QOR	
Sequential Batch Extraction of Waste with Acidic Extraction Fluid	EPA 9045D	\$550.00	
Chromium Soluble	ASTM D5284	QOR	
Moisture, Ash and Organic Matter of Peat and Other Organic Soils (Organic Content)	EPA 7196A	QOR	
Universal Soil Classification System (USCS) Test	ASTM D2974	\$300.00	
California Bearing Ratio Test	ASTM D2487	\$325.00	
Unconfined Compressive Strength of Cohesive Soil	ASTM D1883	\$385.00	
	ASTM D2166/CT221	\$200.00	
ASPHALT			
Quantitative Extraction of Bitumen from Bituminous Paving Mixtures (Solvent)	ASTM D2172/CT310	\$750.00	
Determining Low Temperature Performance Grade (PG) of Asphalt Binders	ASTM 6816	QOR	
Thickness/Height of Compacted Bituminous Paving Mixture Specimens (Cores)	ASTM D3549/CT308	\$285.00	
Method of Prep of Bituminous Mixture Test Specimens	ASTM D6926/CT304	\$285.00	
	ASTM D1188 and D2726/CT308	\$995.00	
Bulk Specific Gravity and Density of Compacted Bituminous Mixtures (LTMD)	AASHTO T275	\$175.00	
Bulk Specific Gravity of Core	ASTM D6931/CT371	\$3,200.00	
Indirect Tensile (IDT) Strength of Bituminous Mixtures (TSR)	ASTM D5444/CT202	\$410.00	
Mechanical Size Analysis (Coarse and Fine) of Extracted Aggregate	ASTM D6927	\$995.00	
Marshall Stability and Flow of Bituminous Mixtures	ASTM D2041/CT309	\$425.00	\$220.00
Theoretical Maximum Specific Gravity and Density (Rice)	CT341	QOR	
Measuring the Permeability of Bituminous Pavements and Seal Coats	CT305	\$400.00	
Swell of Bituminous Mixtures		\$950.00	
	ASTM D1461/CT307	\$400.00	
Moisture Vapor Susceptibility of Bituminous Mixtures/Moisture or Volatile Distillates in Asphalt Stabilometer Value (1 sample)	CT366	\$425.00	
Determination of Asphalt Content of Bituminous Paving Mixtures by the Ignition Method	CT382/ASTM D6307	\$425.00	
Determination of Correction Factor of Bituminous Paving Mixtures by the Ignition Method	CT382/ASTM D6307	\$425.00	
Determination of Asphalt and Moisture Contents of Bituminous Mixtures by Microwave Oven	CT370	\$425.00	
Effect of Water on Compressive Strength of Compacted Bituminous Mixtures (Set of 6)	ASTM D1075	\$3,500.00	
Compressive Strength of Bituminous Mixtures	ASTM D1074	\$300.00	
Hamburg Wheel Track	AASHTO T324	\$3,750.00	
Moisture Susceptibility	AASHTO T283	\$3,750.00	
Air Voids		\$500.00	

* Unusual sample preparation (dried clays, saturated clays, etc.) and all other tests for treated or untreated soils, aggregate subbase and aggregate base will be charged at established rates for laboratory technician.

** Does not include sample preparation or sieve analysis



		Standard Rate/Each	Discounted Rate/Each
MATERIALS MECHANICAL TESTS			
Mechanical Testing of Steel Products (General Tensile)	ASTM A370	\$500.00	
Fillet Weld Break Test for Qualification (Welding)	AWS B4.0	\$225.00	
Tension Testing of Metallic Materials, Tension Testing Wrought and Cast Aluminum and Magnesium-Alloy Products, (Welding Coupon Tensile)	ASTM E8, B557 and AWS B4.0	\$500.00	
Mechanical Testing of Steel Products (Couplers)	ASTM A370	\$500.00	
Impact Testing of Miniaturized Charpy V-Notch Specimens, Notched Bar Impact Testing of Metallic Materials	ASTM E2248 and ASTM E23	QOR	
Testing, Practices, and Terminology for Chemical Analysis of Steel Products	ASTM A751	\$350.00	
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #3-#8	ASTM A370 and E290	\$400.00	\$125.00
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #9-#11	ASTM A370 and E290	\$465.00	\$135.00
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #14+	ASTM A370 and E290	QOR	
Mechanical Testing of Steel Products, Standard Specification for Steel Wire, Plain, for Concrete Reinforcement	ASTM A370, A82 and A185	\$465.00	
Guided Bend Test for Ductility of Welds, Mechanical Testing of Welds	ASTM E190 and AWS B4.0	\$300.00	
Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Anchor Bolts Only (Tension and Yield)	ASTM F307, F1554 and F606	\$550.00	\$325.00
Rockwell Hardness of Metallic Materials	ASTM E18	\$165.00	
Proof Test for Carbon and Alloy Steel (Nuts Only)	ASTM A194 or A563	\$350.00	
Radiographic Examination of Metallic Castings/Weldments	ASTM E94, E1030 and E1032	QOR	
Macroetching Metals and Alloys	ASTM E340, E381 and AWS	\$350.00	
Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets (HSB Assemblies)	ASTM F606	\$400.00	\$150.00
Mechanical Testing of Steel Products (Terminators Tensile)	ASTM A370	\$400.00	
Strength for Sewn or Bonded Seams of Geotextiles	ASTM D4884	\$350.00	
Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure	ASTM D2261	\$350.00	
Breaking Strength and Elongation of Textile Fabrics (Grab Test)	ASTM D5034	\$300.00	
Tensile Properties of Fiber Reinforced Polymer Matrix Composite Bars	ASTM D3039	\$1,000.00	
Steel Strand, Uncoated Seven-Wire for Prestressed Concrete (Set of 2)	ASTM A416 and A1061	\$1,500.00	
FIREPROOFING			
Thickness and Density of Sprayed Fire-Resistive Material (SFRM)	ASTM E605	\$285.00	
Cohesion/Adhesion of Sprayed Fire-Resistive Materials (Test Kit Only)	ASTM E736	\$80.00	

CONTACT INFORMATION

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Construction Testing Services, Inc. (CTS) has reviewed the proposed insurance requirements provided in the RFP and can meet these requirements. Upon award, CTS would like the opportunity to review the District's Testing and Inspection Service Agreement as it was not included for review in the RFP but CTS has worked with the District previously and signed similar agreements. CTS has also reviewed Attachment A and Attachment B and will execute those certifications as well at the time of award.

CTS has developed the NTE fee proposal based on our review the project documents and experience on similar projects.

All exclusions and assumptions for the fee section were outlined in that section (section 5. Fee):

Increment 1

**Steel shop price based on work being done in Northern California in one shop and one shift (no shop at time of bid).
A 12.5% differential will be charged for work at night.*

No contingency is budgeted by CTS for uncontrollable overtime, union or prevailing wage increases and unforeseen requirements that may arise in the specifications, as well as for work over the estimated hours. Owner should budget appropriate amount for budgetary purposes.

Estimate based on plans by Lionakis dated 3/12/21 and DSA 103 File No1-C1 Application No.01-119148 dated 3/18/21. Addenda 1 and 2 were reviewed.

No detailed construction schedule was available at the time this estimate was prepared, RFP indicated 700 calendar days from NTP with construction to start in June 2021.

The liability of Construction Testing Services (CTS) is limited to CTS's contract value.

No travel time and mileage will be charged to and from the LPC site.

Increment 2

**Steel shop price based on work being done in Wisconsin in one shop and three shifts (CTS will provide 2 inspectors to work 12 hour shifts).
A 12.5% differential will be charged for work at night.*

***Stair fabricator unknown at the time of bid, estimate based on fabrication in Northern CA, one shop and one shift.*

No contingency is budgeted by CTS for uncontrollable overtime, union or prevailing wage increases and unforeseen requirements that may arise in the specifications, as well as for work over the estimated hours. Owner should budget appropriate amount for budgetary purposes.

Estimate based on plans by Lionakis and DSA 103 File No1-C2 Application No. 01-119148 dated 12/7/20. Addenda 1 and 2 were reviewed.

No detailed construction schedule was available at the time this estimate was prepared, RFP indicated 700 calendar days from NTP with construction to start in June 2021.

The liability of Construction Testing Services (CTS) is limited to CTS's contract value.

No travel time and mileage will be charged to and from the LPC site.