

West Contra Costa Unified School District
Facilities Operations Center
1400 Marina Way South
Richmond, CA 94804



**REQUEST FOR QUALIFICATIONS AND PROPOSALS (“RFQ/RFP”) FOR
TESTING AND INSPECTION SERVICES FOR
PINOLE VALLEY HIGH SCHOOL FIELDS, FIELD HOUSE AND BLEACHERS PROJECT**

RFQ/RFP #100003679-PVHS FIELDS T&I

June 7, 2021

The West Contra Costa Unified School District (“District”) is requesting submission of statements of qualifications and proposals (“Proposals”) from qualified persons, firms, partnerships corporations, associations or professional organizations (“Firm(s)”) for special testing and inspection services (“Services”) for the **Pinole Valley High School Fields, Field House and Bleachers** Project (“Project”) as described herein.

Firms that intend to submit a Proposal must be insured and appropriately licensed.

Interested Firms are invited to submit a Proposal. All responses must be uploaded directly to the online plan room at www.wccusdplanroom.com

**Melissa Payne
Director of Contracts Administration
West Contra Costa Unified School District
1400 Marina Way South
Richmond, CA 94804-3747**

Questions regarding this RFQ/RFP must be received in writing to the facilities_procurement@wccusd.net on or before **June 10, 2021**.

The District may respond to questions presented via addenda to this RFQ/RFP.

All Proposal must be received electronically on or before June 14, 2021, no later than 4:00 p.m.

Faxed, hand delivered, or late responses will not be accepted. Proposals will be opened immediately after they are due.

1. General Information.

- 1.1. The District invites Proposals from Firms with a record of excellence for the Services. Firms must have extensive experience, as appropriate and without limitation, with the Office of Public School Construction (“OPSC”), the Division of the State Architect (“DSA”), the Department of Toxic Substances Control (“DTSC”), the Uniform Building Code (“UBC”), and Title 24 of the California Code of Regulations.
- 1.2. **Project Description.** The Services will be performed for the Project which consists of: Demolition of existing bleachers, portables, press box and installation of new bleachers, press box, fieldhouse, synthetic field turf and all-weather track. Scope of work also includes tennis and basketball courts, retaining walls, fencing, new softball and baseball fields, dugout shade structures and concrete flatwork, and AC paving work.

SPECIAL INSPECTION AND MATERIALS TESTING

Review project plans, specifications, and the DSA 103 for both Increment 1 and Increment 2, DSA App# 01-118661.

- (1) For Geo: *Work shall include but not limited to field density testing of soil subgrades, trench backfill, pavement subgrades, aggregate base, and asphaltic concrete pavements. Laboratory testing of soil and aggregate base samples for classification or conformance to specifications (if applicable) and maximum dry density evaluations. Observation of foundation excavations to evaluate subsurface conditions encountered.*
- (2) For Materials Testing and Special Inspection Services: *Testing and special inspections required by the project plans, specifications, and the CBC for reinforces concrete, structural steel, non-shrink grout, and post-installed anchors.*
- (3) Reports: *Prepare daily field reports detailing work items observed with a copy provided to the IOR and the District.*
- 1.3. **Services.** The selected Firm shall perform the Services described in the form of *Independent Contractor Agreement for Professional Services (Testing & Inspection Services)*, attached hereto as **Attachment “1”**.
- 1.4. **Sites.** Services shall be performed at the Project, located at 2900 Pinole Valley Road, Pinole, California, 94564 as described in the form of *Independent Contractor Agreement for Professional Services (Testing & Inspection Services)*, attached hereto as **Attachment “1”**.
- 1.5. **Proposals.** Proposals must contain all requested information about the Firm. Proposals should be complete and prepared to provide an insightful, straightforward, and concise overview of the Firm’s Proposal to provide the Services.

2. Firm’s Proposal.

Firm’s Proposal must be concise, well organized, and demonstrate Firm’s qualifications and proposed services. Firm’s Proposal shall be formatted as outlined below and shall be no longer than **ten (10) pages**, 8½” x 11” paper, inclusive of résumés, forms, and pictures, and tabbed according to the numbering system reflected below.

- 2.1. **Letter of Interest.** A dated Letter of Interest must be submitted, including the legal name of the firm(s), address, telephone, and fax numbers, and the name, title, and signature of the person(s) authorized to submit the Proposal on behalf of the Firm. The Letter of Interest should provide a brief statement of Firm’s experience indicating the unique background and qualities of the Firm, its personnel, and its sub-consultants, and what will make the Firm a good fit for work in the District.
- 2.2. **Narrative.** Provide a comprehensive narrative of the services offered by Firm. The narrative should include the following:

2.2.1. Statement of Services. Prepare a detailed Statement of Services for which Firm is submitting its Proposal. Firms must specifically identify work or services which firm is **excluding** from its Statement of Services or which are **not** included or provided by Firm.

2.3. Compensation. Provide Firm’s proposed fee for performance of the Services indicated herein pursuant to the *Independent Contractor Agreement for Professional Services (Testing & Inspection Services)*, attached hereto as **Attachment “1”**.

2.3.1. Fee Estimate (by special inspection or materials testing activity).

Include description of work, units, unit pricing, and total estimated fee for each item.

Note: Break out Geotechnical Observation Scope and Price from Special Inspection and Construction Materials Testing Services

2.3.2. All Other Costs or Fees. Pricing information for, without limitation, estimated inspection and maintenance services, transactional services, additional services, Firm’s mark-up on subcontractor and subcontractor prices, general conditions, and all other categories of costs, expenses, fees, or charges that Firm anticipates will be a part of its price to complete the Services.

2.3.3. Professional Fees. Provide a current fee schedule for the types of service(s) that Firm offers. If referencing basic services costs, include typical staffing expectations, professional fee schedules, and variations that the District could expect for specific services, if applicable.

3. Form of Agreement.

3.1. Attached as **Attachment “1”** to this RFQ/RFP is a form of *Independent Contractor Agreement for Professional Services (Testing & Inspection Services)* (“Agreement”), **including the indemnification provision that the District will include in that Agreement.** Please indicate in Firm’s response if Firm has any comments or objections to the form of Agreement. **PLEASE NOTE:** The District does not intend to consider any substantive changes to the form of Agreement if they are not submitted at or before this time.

4. District’s Evaluation / Selection Process.

4.1. The District intends to select one of the Firms—but reserves the right to select more than one Firm—that best meet(s) the District’s needs to perform the Services as described in this RFQ/RFP. From the Firms that provide Proposals to the District, the District may, at its discretion, interview some or all of those Firms. One or more Firms may be selected and recommended to the governing board of the District for approval (“Successful Firm”). The Successful Firm will be selected based on qualifications and demonstrated competence that include relevant experience with public agencies, including local agencies, and a proven track record of success for these types of Services.

4.2. A “best value” method of selection will be utilized. The “best value” method evaluates the selection criteria listed below based on the designated relative weight given to each criteria as a percentage of the RFQ/RFP’s total points possible, where Cost/Pricing is given the greatest relative weight:

Selection Criteria	Relative Weight (%)
Cost/Pricing	55
Proposed Services	35
Exclusions	10

4.3. Commencement of Services. The District anticipates the selected Firm will begin providing the

Services immediately following Board approval of the selected Firm.

4.4. Schedule. The following is the tentative schedule for this RFQ/RFP, which is subject to change:

RFQ/RFP Issuance Date:	Monday, June 7, 2021
Deadline for Questions:	Thursday, June 10, 2021
Deadline for Proposal Submission:	Monday, June 14, 2021
Recommendation to Board:	Wednesday, June 23, 2021
Notice to Proceed:	July 2021

5. Terms and Conditions.

- 5.1.** The District reserves the right to contract with any Firm responding to this RFQ/RFP for all or portions of the above-described Services, to reject any Proposal as non-responsive, and not to contract with any Firm for the Services described herein. The District makes no representation that participation in the RFQ/RFP process will lead to an award of contract or any consideration whatsoever.
- 5.2.** The District is not responsible for late delivery of a Proposal. It is the responsibility of the responding Firm to ensure that the Proposal is submitted on time to the District. Proposals that are received after the deadline may not be considered.
- 5.3.** Responses to this RFQ/RFP will become the property of the District and subject to the California Public Records Act, Government Code sections 6250 et seq. Those elements in each response that are trade secrets as that term is defined in Civil Code section 3426.1(d) or otherwise exempt by law from disclosure and which are prominently marked as “TRADE SECRET,” “CONFIDENTIAL,” or “PROPRIETARY” may not be subject to disclosure. The District shall not be liable or responsible for the disclosure of any such records including, without limitation, those so marked if disclosure is deemed to be required by law or by an order of the Court. A Firm that indiscriminately identifies all or most of its response as exempt from disclosure without justification may be deemed non-responsive. In the event the District is required to defend an action on a Public Records Act request for any of the contents of a response marked “Confidential,” “Proprietary,” or “Trade Secret,” the Firm agrees, by submission of its response for the District’s consideration, to defend and indemnify the District from all costs and expenses, including attorneys’ fees, in any action or liability arising under the Public Records Act.
- 5.4.** Issuance of this RFQ/RFP does not commit the District to award a contract for Services or to pay any costs incurred with the preparation of a response. Firms should note that the execution of any contract pursuant to this RFQ/RFP is dependent upon successful negotiation of terms and fees as well as approval by the District’s Board of Education.
- 5.5.** The selected Firm(s) and each of its (their) sub-consultants and/or co-venture partners, shall comply with all applicable federal and California laws, including, but not limited to, Title VII of the Civil Rights Act of 1964, as amended, Executive Orders 11246, 11375, and 12086, the California Fair Employment and Housing Act beginning with Government code section 12900, Labor Code section 1735, and any other applicable federal and state laws and regulations hereinafter enacted, including the Federal Americans with Disabilities Act (ADA). Firms shall be responsible for establishing and implementing an ADA program within the Firm’s work place. Firms shall not discriminate against any prospective or active employee based on race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military and veteran status. The selected respondent shall cause the above provisions to be inserted in all subcontracts for any work covered by this RFQ/RFP so that such provisions will be binding upon each sub-consultant.

- 5.6. Prior to contract execution, proof of all insurances at the levels specified in the specific contract will be required. Fingerprinting of all personnel who will visit school sites is also required. The District reserves the right to amend this RFQ/RFP by means of addenda.
- 5.7. In the event Firm is asked to attend an interview, it is mandatory that the proposed primary project contact and a principal of the Firm with the authority to enter into binding contracts with the District attend the interview. The District is not responsible for any costs the Firm may incur in the preparation of the Proposal, interview, or selection process.

6. **Protests.**

Any protest regarding this RFQ/RFP must be submitted in writing to the District, before **5:00 p.m.** of the **THIRD (3rd)** business day following the date of notification by the District that a firm has been selected following the evaluation / selection process.

- 6.1. The protest must contain a complete statement of any and all bases for the protest.
- 6.2. The protest must refer to the specific portions of any documents that form the bases for the protest.
- 6.3. The protest must include the name, address and telephone number of the person representing the protesting party.
- 6.4. The party filing the protest must concurrently transmit a copy of the protest and any attached documentation to all other parties with a direct financial interest that may be adversely affected by the outcome of the protest; and all other Firms or proposers who appear to have a reasonable prospect of receiving an award depending upon the outcome of the protest.
- 6.5. The procedure and time limits set forth in this paragraph are mandatory and are each Firm's sole and exclusive remedy in the event of protest. Failure to comply with these procedures shall constitute a waiver of any right to further pursue the protest, including filing a Government Code Claim or legal proceedings.

Attachment “1”

**Form of
Independent Contractor Agreement for Professional Services
(Testing & Inspection Services)**

Attachment “2”

PROJECT DOCUMENTS

PVHS Fields, Increment 1, Plans and Specifications (including DSA Addendum 1 and 2) Available upon request.

PVHS Fields, Increment 2, Plans and Specifications (including Addendum 1) Available upon request.

DSA 103, Increment 1 (included in the Specifications)

DSA 103, Increment 2 (included in the Specifications)

WEST CONTRA COSTA UNIFIED SCHOOL DISTRICT

INDEPENDENT CONTRACTOR AGREEMENT FOR PROFESSIONAL SERVICES (TESTING & INSPECTION SERVICES)

This Independent Contractor Agreement for Special Services ("Agreement") is made as of the ____ day of _____ in the year 20__, between the West Contra Costa Unified School District ("District") and _____ ("Contractor"). The District and Contractor may be individually referred to herein as a "Party" or collectively referred to herein as the "Parties."

WHEREAS, District is authorized by California Government Code sections 4529.10 and 4529.12 to contract with and employ any persons for the furnishing of architectural, landscape architectural, environmental, engineering, land surveying, and construction management services through a fair, competitive selection process; and

WHEREAS, Contractor is specially trained, experienced, competent and duly licensed under the laws of the State of California to perform the services pursuant to this Agreement.

NOW, THEREFORE, the Parties agree as follows:

- 1. Services. Contractor shall furnish to the District the services as described in Exhibit "A," attached hereto and incorporated herein by this reference ("Services" or "Work"). The scope of Services will generally consist of the following:

SPECIAL INSPECTION AND MATERIALS TESTING

Review project plans, specifications, and the DSA 103 for both Increment 1 and Increment 2, DSA App # 01-118661.

- (1) For Geo: Work shall include but not be limited to field density testing of soil subgrades, trench backfill, pavement subgrades, aggregate base, and asphaltic concrete pavements. Laboratory testing of soil and aggregate base samples for classification or conformance to specifications (if applicable) and maximum dry density evaluations. Observation of foundation excavations to evaluate subsurface conditions encountered.
(2) For Materials testing and special inspection services: testing and special inspections required by the project plans, specifications, and the CBC for reinforced concrete, structural steel, non-shrink grout, and post-installed anchors.

- 1.1. The Services shall be performed on the following project(s) / site(s) ("Project"):

PINOLE VALLEY HIGH SCHOOL FIELDS, FIELD HOUSE AND BLEACHRS PROJECT, located at 2900 Pinole Valley Road, Pinole, California 94564 ("Site").

- 2. Term. Unless terminated or otherwise cancelled as permitted herein, the term of this Agreement shall be for the following:

The period of construction of the Project.

- 2.1. This Agreement may be extended upon mutual approval of both Parties to the extent permissible under applicable law.

- 3. Submittal of Documents. The Contractor shall not commence the Work under this Contract until the Contractor has submitted and the District has approved the certificate(s) and affidavit(s), and the endorsement(s) of insurance required as indicated below:

Table with 2 columns: Description and Status. Rows include Signed Agreement, Insurance Certificates & Endorsements, Bonds (as requested by District), Other, Workers' Compensation Certificate, W-9 Form, and Fingerprinting/Criminal Background Investigation Certification.

- 4. Compensation. Contractor's fee for the performance of Contractor's Services shall be on an hourly basis and/or a per

unit basis, as indicated in **Exhibit "B"** attached hereto and incorporated herein by this reference. District agrees to pay Contractor for Services satisfactorily rendered pursuant to this Agreement a total fee **not-to-exceed** _____ Dollars (\$ _____). District shall pay Contractor according to the following terms and conditions:

- 4.1. Payment for the Work shall be made for all undisputed amounts in monthly installment payments within thirty (30) days after the Contractor submits an invoice to the District for Work actually completed and after the District's written approval of the Work, or the portion of the Work for which payment is to be made.
- 4.2. Contractor shall prepare a separate invoice for each site, if Contractor performs Services at more than one site. The itemized invoice shall reflect the hours spent by the Contractor in performing its Services pursuant to this Agreement.
5. **Expenses.** District shall not be liable to Contractor for any costs or expenses paid or incurred by Contractor in performing the Work, except as follows:
 - 5.1. N/A
6. **Materials.** Contractor shall furnish, at his/her own expense, all labor, materials, equipment, supplies and other items necessary to complete the services to be provided pursuant to this Agreement, except as follows:
 - 6.1. N/A
7. **Independent Contractor.** Contractor, in the performance of this Agreement, shall be and act as an independent contractor. Contractor understands and agrees that he/she and all of his/her employees shall not be considered officers, employees, agents, partner, or joint venture of the District, and are not entitled to benefits of any kind or nature normally provided employees of the District and/or to which District's employees are normally entitled, including, but not limited to, State Unemployment Compensation or Worker's Compensation. Contractor shall assume full responsibility for payment of all federal, state and local taxes or contributions, including unemployment insurance, social security and income taxes with respect to Contractor's employees.
8. **Designated Representatives.** Contractor shall coordinate with District personnel and/or its designated representatives as may be requested and desirable, including with other professionals employed by the District for the design, coordination, or management of other work related to the Project.
9. **Standard of Care.**
 - 9.1. Contractor represents that Contractor has the qualifications and ability to perform the Services in a professional manner, without the advice, control, or supervision of District. Contractor's Services will be performed, findings obtained, reports and recommendations prepared in accordance with generally and currently accepted principles and practices of its profession for services to California school districts. Contractor's Services will be performed with due care and in accordance with applicable law, code, rule, regulation, and/or ordinance.
 - 9.2. Contractor hereby represents that it possesses the necessary professional capabilities, qualifications, licenses, skilled personnel, experience, expertise, and financial resources, and it has available and will provide the necessary equipment, materials, tools, and facilities to perform the Services in an efficient, professional, and timely manner in accordance with the terms and conditions of the Agreement.
 - 9.3. Contractor shall be responsible for the professional quality, technical accuracy, completeness, and coordination of the Services, and Contractor understands that the District relies upon such professional quality, accuracy, completeness, and coordination by Contractor in performing the Services.
 - 9.4. Contractor shall ensure that any individual performing work under the Agreement requiring a California license shall possess the appropriate license required by the State of California. All personnel shall have sufficient skill and experience to perform the work assigned to them.
10. **Meetings.** Contractor and District agree to participate in regular meetings, as necessary, on at least a monthly basis to discuss strategies, timetables, implementations of Services, and any other issues deemed relevant to the operation of Contractor's performance of Services.

11. **Originality of Services.** Except as to standard generic details, Contractor agrees that all technologies, formulae, procedures, processes, methods, writings, ideas, dialogue, compositions, recordings, teleplays and video productions prepared for, written for, or submitted to the District and/or used in connection with this Agreement, shall be wholly original to Contractor and shall not be copied in whole or in part from any other source, except that submitted to Contractor by District as a basis for such services.
12. **Copyright/Trademark/Patent.** Contractor understands and agrees that all matters produced under this Agreement shall become the property of District and cannot be used without District's express written permission. District shall have all right, title and interest in said matters, including the right to secure and maintain the copyright, trademark and/or patent of said matter in the name of the District. Contractor consents to use of Contractor's name in conjunction with the sale, use, performance and distribution of the matters, for any purpose and in any medium.
13. **Termination.**
- 13.1. **Without Cause by District.** District may, at any time, with or without reason, terminate this Agreement and compensate Contractor only for services satisfactorily rendered to the date of termination. Written notice by District shall be sufficient to stop further performance of services by Contractor. Notice shall be deemed given when received by the Contractor or no later than three (3) days after the day of mailing, whichever is sooner.
- 13.2. **Without Cause by Contractor.** Contractor may, upon sixty (60) days' notice, with or without reason, terminate this Agreement. Upon this termination, District shall only be obligated to compensate Contractor for services satisfactorily rendered to the date of termination. Written notice by Contractor shall be sufficient to stop further performance of services to District. Contractor acknowledges that this sixty (60) days' notice period is acceptable so that the District can attempt to procure the Services from another source.
- 13.3. **With Cause by District.** District may terminate this Agreement upon giving of written notice of intention to terminate for cause. Cause shall include:
- 13.3.1. material violation of this Agreement by the Contractor; or
- 13.3.2. any act by Contractor exposing the District to liability to others for personal injury or property damage; or
- 13.3.3. Contractor is adjudged a bankrupt, Contractor makes a general assignment for the benefit of creditors or a receiver is appointed on account of Contractor's insolvency.
- Written notice by District shall contain the reasons for such intention to terminate and, unless within three (3) calendar days after that notice the condition or violation shall cease or satisfactory arrangements for the correction thereof be made, this Agreement shall upon the expiration of the three (3) calendar days cease and terminate. In the event of this termination, the District may secure the required Services from another Contractor. If the expense, fees, and/or costs to the District exceeds the cost of providing the Services pursuant to this Agreement, the Contractor shall immediately pay the excess expense, fees, and/or costs to the District upon the receipt of the District's notice of these expense, fees, and/or costs. The foregoing provisions are in addition to and not a limitation of any other rights or remedies available to District.
- 13.4. Upon termination, Contractor shall provide the District with all documents produced maintained or collected by Contractor pursuant to this Agreement, whether or not such documents are final or draft documents.
14. **Indemnification.** To the furthest extent permitted by California law, Contractor shall defend, indemnify, and hold free and harmless the District, its agents, representatives, officers, consultants, employees, trustees, and volunteers ("the indemnified parties") from any and all claims, demands, causes of action, costs, expenses, liability, loss, damage or injury of any kind, in law or equity, including without limitation the payment of all consequential damages ("Claim"), arising out of, pertaining to or relating to, in whole or in part, the negligence, recklessness, errors or omissions, or willful misconduct of Contractor, its officials, officers, employees, subcontractors, consultants, or agents directly or indirectly arising out of, connected with, or resulting from the performance of the Services or from any activity, work, or thing done, permitted, or suffered by the Contractor in conjunction with this Agreement. The District shall have the right to accept or reject any legal representation that Contractor proposes to defend the indemnified parties.
15. **Insurance.**
- 15.1. The Contractor shall procure and maintain at all times it performs any portion of the Services the following insurance with minimum limits equal to the amount indicated below.
- 15.1.1. **Commercial General Liability and Automobile Liability Insurance.** Commercial General Liability Insurance and Any Auto Automobile Liability Insurance that insure Contractor, District, and the State against all claims of bodily injury, property damage, personal injury, death, advertising injury, and

medical payments arising from Contractor’s performance of any portion of the Services. (Form CG 0001 and CA 0001 or forms substantially similar, if approved by the District).

- 15.1.2. **Workers’ Compensation and Employers’ Liability Insurance.** Workers’ Compensation Insurance and Employers’ Liability Insurance for all of its employees performing any portion of the Services. In accordance with provisions of section 3700 of the California Labor Code, the Contractor shall be required to secure workers’ compensation coverage for its employees. If any class of employee or employees engaged in performing any portion of the Services under this Agreement are not protected under the Workers’ Compensation Statute, adequate insurance coverage for the protection of any employee(s) not otherwise protected must be obtained before any of those employee(s) commence performing any portion of the Services.
- 15.1.3. **Professional Liability (Errors and Omissions).** Professional Liability (Errors and Omissions) Insurance as appropriate to the Contractor’s profession.

Type of Coverage	Minimum Requirement
Commercial General Liability Insurance , including Bodily Injury, Personal Injury, Property Damage, Advertising Injury, and Medical Payments	
Each Occurrence	\$ 1,000,000
General Aggregate	\$ 1,000,000
Automobile Liability Insurance - Any Auto	
Each Occurrence	\$ 1,000,000
General Aggregate	\$ 1,000,000
Professional Liability	\$ 1,000,000
Workers Compensation	Statutory Limits
Employer’s Liability	\$ 1,000,000

- 15.2. **Proof of Carriage of Insurance.** The Contractor shall not commence performing any portion of the Services until all required insurance has been obtained and certificates indicating the required coverage’s have been delivered in duplicate to the District and approved by the District. Certificates and insurance policies shall include the following:
 - 15.2.1. A clause stating: “This policy shall not be canceled or reduced in required limits of liability or amounts of insurance until notice has been mailed to the District, stating date of cancellation or reduction. Date of cancellation or reduction shall not be less than thirty (30) days after date of mailing notice.”
 - 15.2.2. Language stating in particular those insured, extent of insurance, location and operation to which insurance applies, expiration date, to whom cancellation and reduction notice will be sent, and length of notice period.
 - 15.2.3. An endorsement stating that the District and the State and their representatives, employees, trustees, officers, and volunteers are named additional insureds under all policies except Workers’ Compensation Insurance, Professional Liability, and Employers’ Liability Insurance. An endorsement shall also state that Contractor’s insurance policies shall be primary to any insurance or self-insurance maintained by District.
 - 15.2.4. All policies shall be written on an occurrence form, except for Professional Liability which shall be on a claims-made form.
- 15.3. **Acceptability of Insurers.** Insurance is to be placed with insurers with a current A.M. Best’s rating of no less than A: VII, unless otherwise acceptable to the District.

16. **Assignment.** The obligations of the Contractor pursuant to this Agreement shall not be assigned by Contractor nor by operation of law.

17. **Compliance with Laws.** Contractor shall observe and comply with all rules and regulations of the governing board of the District and all federal, state, and local laws, ordinances and regulations. Contractor shall give all notices required by any law, ordinance, rule and regulation bearing on conduct of the Work as indicated or specified. If Contractor observes that any of the Work required by this Contract is at variance with any such laws, ordinance, rules or regulations, Contractor shall notify the District, in writing, and, at the sole option of the District, any necessary changes to the scope of the Work shall be made and this Contract shall be appropriately amended in writing, or this Contract shall be terminated effective upon Contractor’s receipt of a written termination notice from the District. If Contractor performs any work that is in

violation of any laws, ordinances, rules or regulations, without first notifying the District of the violation, Contractor shall bear all costs arising therefrom.

18. **Labor Code Requirements.** Contractor and its subcontractors shall comply with all applicable provisions of the California Labor Code sections 1720-1861, without limitation, the payment of the general prevailing per diem wage rates for public work projects (including repairs and maintenance, where applicable) of more than one thousand dollars (\$1,000). Copies of the prevailing rate of per diem wages are on file with the District/COE. In addition, the Contractor and each subcontractor shall comply with Sections 1735, 1777.5 and 1777.6, forbidding discrimination, and Sections 1776, 1777.5 and 1777.6 concerning the employment of apprentices by Contractor or subcontractors. Willful failure to comply may result in penalties, including loss of the right to bid on or receive public works contracts. **Registration:** As applicable, Contractor and its subcontractors shall comply with the registration and qualification requirements pursuant to sections 1725.5 and 1771.1 of the California Labor Code. **Certified Payroll Records:** Contractor and its subcontractor(s) shall keep accurate certified payroll records of employees, as applicable, and shall make them available to the District/COE immediately upon request.
19. **Certificates/Permits/Licenses.** Contractor and all Contractor's employees or agents shall secure and maintain in force such certificates, permits, and licenses as are required by law in connection with the furnishing of services pursuant to this agreement.
20. **Safety and Security.** Contractor is responsible for maintaining safety in the performance of this Agreement. Contractor shall be responsible to ascertain from the District the rules and regulations pertaining to safety, security, and driving on school grounds, particularly when children are present.
21. **Employment with Public Agency.** Contractor, if an employee of another public agency, agrees that Contractor will not receive salary or remuneration, other than vacation pay, as an employee of another public agency for the actual time in which services are actually being performed pursuant to this Agreement.
22. **Anti-Discrimination.** It is the policy of the District that in connection with all work performed under Contracts there be no discrimination against any employee engaged in the work because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military and veteran status and therefore the Contractor agrees to comply with applicable Federal and California laws including, but not limited to the California Fair Employment and Housing Act beginning with Government Code Section 12900 and Labor Code Section 1735. In addition, the Contractor agrees to require like compliance by all its subcontractor(s).
23. **Fingerprinting of Employees.** The Contractor shall comply with the provisions of Education Code section 45125.1 regarding the submission of employee fingerprints to the California Department of Justice and the completion of criminal background investigations of its employees. The Contractor shall not permit any employee to have any contact with District pupils until such time as the Contractor has verified in writing to the governing board of the District that the employee has not been convicted of a felony, as defined in Education Code section 45122.1. The Contractor's responsibility shall extend to all employees, subcontractors, agents, and employees or agents of subcontractors regardless of whether those individuals are paid or unpaid, concurrently employed by the District, or acting as independent contractors of the Contractor. Verification of compliance with this section shall be provided in writing to the District prior to each individual's commencement of employment or performing any portion of the Services and prior to permitting contact with any student.
24. **District's Right to Audit.** District retains the right to review and audit, and the reasonable right of access to Contractor's and any subcontractor's premises to review and audit, the Contractor's compliance with the provisions of this Agreement ("District's Audit Right"). The District's Audit Right includes the right to inspect, photocopy, and to retain copies, outside of the Contractor's premises, of any and all Work-related records, documents and other information with appropriate safeguards, if such retention is deemed necessary by the District in its sole discretion. The District's Audit Right shall also include the right to interview current or former employees and subcontractors of Contractor with respect to matters or issues under audit. The information obtained pursuant to this section shall be disclosable to third parties as required by applicable law.

- 24.1. Contractor shall establish and maintain books, records, and systems of account, in accordance with generally accepted accounting principles, reflecting all business operations of Contractor transacted under this Agreement. Contractor shall retain these books, records, and systems of account during the Term of this Agreement and for three (3) years thereafter.
- 24.2. Contractor shall, without limitation, permit the District, its agent, other representatives, or an independent auditor to audit, examine, and make excerpts, copies, and transcripts from all books and records, and to make audit(s) of all billing statements, invoices, records, and other data related to the Services covered by this Agreement. Audit(s) may be performed at any time, provided that the District shall give reasonable prior notice to Contractor and shall conduct audit(s) during Contractor's normal business hours, unless Contractor otherwise consents.
- 24.3. Contractor shall include audit provisions in any and all of its subcontracts, and shall ensure that provision is binding upon all subcontractors.
- 24.4. Contractor shall comply with these provisions within fifteen (15) days of the District's written request to review and audit any or all of Contractor's Work-related documents, records and information. The District's Audit Right and Contractor's compliance with the same, shall be at no additional cost to the District.
- 24.5. In the event the District's Audit Right, or an audit by the State Auditor, evidences payments to Contractor not in accordance with the provisions of this Agreement, Contractor shall immediately pay District the amount of said payments not in compliance in addition to all costs reasonably incurred by District in conducting an audit hereunder.
- 24.6. Contractor acknowledges and agrees that the District's Audit Right, pursuant to the foregoing provisions, shall apply to, and may be utilized by the District for the production of, any records or documents subject to disclosure under the California Public Records Act, Government Code § 6250 et seq. ("CPRA"), unless otherwise exempt, and which may include, but are not limited to, records or documents in the District's constructive possession but under Contractor's control regardless if created, sent, received, stored, or maintained in a personal account or device of Contractor or its employees, as prescribed by applicable law. In the event the District exercises District's Audit Right in response to or as part of a request under the CPRA, Contractor agrees to provide District with an affidavit, if and as needed or requested by District, within five (5) days of District's request therefor, that certifies Contractor's search for and production of responsive records subject to disclosure pursuant to the CPRA, if any.
25. **District's Evaluation of Contractor and Contractor's Employees and/or Subcontractors.** The District may evaluate the Contractor in any manner which is permissible under the law. The District's evaluation may include, without limitation:
 - 25.1. Requesting that District employee(s) evaluate the Contractor and the Contractor's employees and subcontractors and each of their performance.
 - 25.2. Announced and unannounced observance of Contractor, Contractor's employee(s), and/or subcontractor(s).
26. **Limitation of District Liability.** Other than as provided in this Agreement, District's financial obligations under this Agreement shall be limited to the payment of the compensation provided in this Agreement. Notwithstanding any other provision of this Agreement, in no event, shall District be liable, regardless of whether any claim is based on contract or tort, for any special, consequential, indirect or incidental damages, including, but not limited to, lost profits or revenue, arising out of or in connection with this Agreement for the services performed in connection with this Agreement.
27. **Disputes.** In the event of a dispute between the parties as to performance of Work, Agreement interpretation, or payment, the Parties shall attempt to resolve the dispute by negotiation and/or mediation, if agreed to by the Parties. Pending resolution of the dispute, Contractor shall neither rescind the Agreement nor stop Work.
28. **Confidentiality.** The Contractor and all Contractor's agents, personnel, employee(s), and/or subcontractor(s) shall maintain the confidentiality of all information received in the course of performing the Services. This requirement to maintain confidentiality shall extend beyond the termination of this Agreement.

29. **Notice.** Any notice required or permitted to be given under this Agreement shall be deemed to have been given, served, and received if given in writing and either personally delivered or deposited in the United States mail, registered or certified mail, postage prepaid, return receipt required, or sent by overnight delivery service, or facsimile transmission, addressed as follows:

West Contra Costa Unified School District
Facilities Operations Center
1400 Marina Way South, Richmond CA 94564
Tel: 510-307-4545
ATTN: Luis Freese, Superintendent of Operations

Contractor

Tel: _____ ; Fax: _____
ATTN: _____

Any notice personally given or sent by facsimile transmission shall be effective upon receipt. Any notice sent by overnight delivery service shall be effective the business day next following delivery thereof to the overnight delivery service. Any notice given by mail shall be effective three (3) days after deposit in the United States mail.

30. **Integration/Entire Agreement of Parties.** This Agreement constitutes the entire agreement between the Parties and supersedes all prior discussions, negotiations, and agreements, whether oral or written. This Agreement may be amended or modified only by a written instrument executed by both Parties.

31. **California Law.** This Agreement shall be governed by and the rights, duties and obligations of the Parties shall be determined and enforced in accordance with the laws of the State of California. The Parties further agree that any action or proceeding brought to enforce the terms and conditions of this Agreement shall be maintained in the California county in which the District’s administration offices are located.

32. **Waiver.** The waiver by either party of any breach of any term, covenant, or condition herein contained shall not be deemed to be a waiver of such term, covenant, condition, or any subsequent breach of the same or any other term, covenant, or condition herein contained.

33. **Severability.** If any term, condition or provision of this Agreement is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions will nevertheless continue in full force and effect, and shall not be affected, impaired or invalidated in any way.

34. **Incorporation of Recitals and Exhibits.** The Recitals and each exhibit attached hereto are hereby incorporated herein by reference.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement on the date indicated below.

West Contra Costa Unified School District

Date: _____, 20__

By: _____

Print Name: Luis Freese, Superintendent of Operations

Its: _____

Date: _____, 20__

By: _____

Print Name: _____

Its: _____

Information regarding Contractor:

Contractor: _____

License No.: _____

Address: _____

Telephone: _____

Facsimile: _____

E-Mail: _____

Type of Business Entity:

____ Individual ____ Sole Proprietorship

____ Partnership ____ Limited Partnership

____ Limited Liability Company

____ Corporation, State: _____

____ Other: _____

Employer Identification and/or Social Security Number

NOTE: United States Code, title 26, sections 6041 and 6109 require non-corporate recipients of \$600.00 or more to furnish their taxpayer identification number to the payer. The United States Code also provides that a penalty may be imposed for failure to furnish the taxpayer identification number. In order to comply with these rules, the District requires your federal tax identification number or Social Security number, whichever is applicable.

WORKERS' COMPENSATION CERTIFICATION

Labor Code Section 3700 in relevant part provides that every employer except the State shall secure the payment of compensation in one or more of the following ways:

- By being insured against liability to pay compensation by one or more insurers duly authorized to write compensation insurance in this State.
- By securing from the Director of Industrial Relations a certificate of consent to self-insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to its employees.

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the Work of this Contract.

Date: _____
Proper Name of Contractor: _____
Signature: _____
Print Name: _____
Title: _____

(In accordance with Article 5 – commencing at Section 1860, Chapter 1, part 7, Division 2 of the Labor Code, the above certificate must be signed and filed with the District prior to performing any Work under this Contract.)

FINGERPRINTING/CRIMINAL BACKGROUND INVESTIGATION CERTIFICATION

One of the three boxes below **must** be checked, with the corresponding certification provided, and this form attached to the Independent Contractor Agreement for Professional Services (“Agreement”):

[TO BE COMPLETED BY AUTHORIZED DISTRICT EMPLOYEE ONLY.] Contractor’s employees will have only limited contact, if any, with District pupils and the District will take appropriate steps to protect the safety of any pupils that may come in contact with Contractor’s employees so that the fingerprinting and criminal background investigation requirements of Education Code section 45125.1 shall not apply to Contractor for the services under this Agreement. As an authorized District official, I am familiar with the facts herein certified, and am authorized to execute this certificate on behalf of the District. (Ed. Code, § 45125.1 (c).)

Date: _____
 District Representative’s Name and Title: _____
 Signature: _____

The fingerprinting and criminal background investigation requirements of Education Code section 45125.1 apply to Contractor’s services under this Agreement and Contractor certifies its compliance with these provisions as follows: *“Contractor certifies that the Contractor has complied with the fingerprinting and criminal background investigation requirements of Education Code section 45125.1 with respect to all Contractor’s employees, subcontractors, agents, and subcontractors’ employees or agents (“Employees”) regardless of whether those Employees are paid or unpaid, concurrently employed by the District, or acting as independent contractors of the Contractor, who may have contact with District pupils in the course of providing services pursuant to the Agreement, and the California Department of Justice has determined that none of those Employees has been convicted of a felony, as that term is defined in Education Code section 45122.1. A complete and accurate list of all Employees who may come in contact with District pupils during the course and scope of the Agreement is attached hereto.”*

Contractor’s services under this Agreement shall be limited to the construction, reconstruction, rehabilitation, or repair of a school facility and although all Employees will have contact, other than limited contact, with District pupils, pursuant to Education Code section 45125.2 District shall ensure the safety of the pupils by at least one of the following as marked:

- _____ The installation of a physical barrier at the worksite to limit contact with pupils.
- _____ Continual supervision and monitoring of all Contractor’s on-site employees of Contractor by an employee of Contractor, _____, whom the Department of Justice has ascertained has not been convicted of a violent or serious felony.
- _____ Surveillance of Employees by District personnel. **[TO BE COMPLETED BY AUTHORIZED DISTRICT EMPLOYEE ONLY.]**
 Date: _____
 District Representative’s Name and Title: _____
 Signature: _____

Megan’s Law (Sex Offenders). I have verified and will continue to verify that the employees of Contractor that will be on the Project site and the employees of the Subcontractor(s) that will be on the Project site are **not** listed on California’s “Megan’s Law” Website (<http://www.meganslaw.ca.gov/>).

[MUST BE COMPLETED BY CONTRACTOR’S AUTHORIZED REPRESENTATIVE.] I am a representative of the Contractor entering into this Agreement with the District and I am familiar with the facts herein certified, and am authorized and qualified to execute this certificate on behalf of Contractor.

Date: _____
 Name of Contractor or Company: _____
 Signature: _____
 Print Name and Title: _____

EXHIBIT A
Scope of Services
Special Testing and Inspection

Contractor's entire Proposal is not made part of this Agreement.

The scope of Services is more specifically described herein.

Contractor must complete a Division of the State Architect ("DSA") Form SSS 103-1 (Revised 4/07 or more recent version, Structural Tests and Inspections). All appropriate boxes must be checked to indicate the type(s) of Inspection(s) and/or testing that will be performed as part of the scope of this Agreement.

Contractor shall provide the Services set forth herein, as well as any incidental services necessary for the full and adequate completion of Project Services in strict accordance with all applicable local, state, and federal laws rules and regulations, including but not limited to, the State Building Code, California Code of Regulations Title 24, and Instructions on Division of the State Architect ("DSA"), Structural Tests and Inspections form SSS 103-1 (as provided for the Project), and instructions included herein. Special Inspectors and Testing staff shall be prepared to attend Project progress meetings and other specially called meetings as determined by the District. Contractor shall provide daily and/or individual occurrence reports of Special Inspections and Testing results on previously approved forms and provide sufficient copies to the District and District's Representatives for distribution to the Construction Contractor, and Architect.

Geotechnical Engineer of Record and Soils Observation and Testing

The geotechnical portions of this Project shall be performed under the direction of a Geotechnical Engineer, which shall be the Geotechnical Engineer of Record for the Project. A technician with a nuclear gauge shall perform density and moisture testing in the field during grading, utility trench backfilling, and pavement operations utilizing ASTM D2922, D3017, and ASTM D1556 methods. Laboratory maximum density and optimum moisture determination shall be performed in accordance with ASTM D1557 or D698. Asphalt pavement placement and testing shall be performed in accordance with Caltrans methods.

Contractor shall provide:

1. Perform a Site reconnaissance, reviewing the geotechnical engineering report for this Project, and reviewing the drawings.
2. Project management, consultation during construction, preparation of daily field, foundation excavation observation, and final grading reports;
3. Ensure soils conditions are in conformance to soils report;
4. Foundation inspection;
5. As-graded soils report;
6. Observation and testing during site clearing and mass grading;
7. Observing the foundations excavations for structures;
8. Observation and testing during backfilling of utility trenches;
9. Observation and testing during backfilling around retaining walls;
10. Observation and testing during subgrade preparation and base rock placement in asphalt paved areas;
11. Observation and testing during asphalt concrete placement;
12. Final Report

And/or

13. Perform the following Sampling and Testing of Materials and Testing of Work-in-Place as may be required by the DSA Testing and Inspection Listing, and as required by the District. The Testing shall be performed in accordance with ASTM test methods and California test methods as appropriate. All Laboratory testing shall be accomplished in a DSA certified laboratory:
 - a. Soil, Aggregate & Asphalt;
 - b. Maximum Dry Density;
 - c. Expansion Index (ASTM D4318);
 - d. R-Value;
 - e. Sand Equivalent;
 - f. Sieve Analysis (ASTM C136);
 - g. Hveem Stability;

- h. Asphalt Extraction (ASTM 2172);
- i. Hardness and Abrasion;
- j. Atterberg limits (ASTM 4318);
- k. No. 200 Sieve Analysis (ASTM D422);
- l. Specific Gravity C127/C128;
- m. Asphalt and Asphaltic Concrete Gradation (ASTM C136);
- n. Asphalt and Asphaltic Concrete Specific Gravity (ASTM D1188);
- o. Asphalt and Asphaltic Concrete Stability & Flow Marshall (ASTM D1559);
- p. Asphalt and Asphaltic Concrete Abrasion (ASTM C131);
- q. Asphalt and Asphaltic Concrete Unit Weight (ASTM D2726); and
- r. Asphalt Cores
- s. Final Report

Observation and testing shall consist of visual observation of earthwork activities and/or taking field density and moisture tests for the purpose of ascertaining that the work is in substantial conformance with the Project documents, plans, and specifications.

EXHIBIT B
Hourly Personnel Rates
and
Schedule of Fees and Charges



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Application No.:

01-118661

Date Submitted:

12/18/2019

Revised:

4/15/2020

Revised:

5/20/2020

School Name	Pinole Valley High School Fields, Field House, and Bleachers	District	West Contra Costa Unified School District
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IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A.

NOTE: This form is also available for projects submitted for review under the 2007, 2010, and 2013 CBC.

INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. **Note:** A minus (-) on a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPILE" button to show only the tests and inspections finally selected. **For more information on use of this form, see DSA-103.INSTR.**

Note: References are to the 2016 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE 1	PERFORMED BY 2	CODE REFERENCE AND NOTES
-	SOILS (Indicate if project has geotechnical report):			<input checked="" type="radio"/> Project has a geotechnical report, or CDs indicate soils special inspection is required by GE. <input type="radio"/> Project does NOT have and does NOT require a geotechnical report.
-	1. GENERAL:			Table 1705A.6
X	a. Verify that: <ul style="list-style-type: none"> • site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, • foundation excavations are extended to proper depth and have reached proper material, and • materials below footings are adequate to achieve the design bearing capacity. 	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
-	2. SOIL COMPACTION AND FILL:			Table 1705A.6
X	a. Perform classification and testing of fill materials.	Test	LOR*	* Under the supervision of the geotechnical engineer.
X	b. Verify use of proper materials, densities and inspect lift thicknesses, placement, and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix for exemptions where soils SI and testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.)
X	c. Compaction testing.	Test	LOR*	* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)
-	4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):			Table 1705A.8
X	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)



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X	c. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths, and embedment into bedrock (if applicable). Record concrete or grout volumes.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
X	d. Confirm adequate end strata bearing capacity.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
X	e. Concrete piers.	Provide tests and inspections per CONCRETE section below.		
-	5. RETAINING WALLS:			
X	a. Placement of soil reinforcement, drainage devices, and backfill.	Continuous	GE*	Placement, compaction and inspection of backfill per Section 1705A.6.1 for fills supporting foundations (see Section 2 above). * By geotechnical engineer or his or her qualified representative.
X	c. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
-	CONCRETE Table 1705A.3, ACI 318-14 Sections 26.12 & 26.13			
-	7. CAST-IN-PLACE CONCRETE			
Material Verification and Testing:				
X	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1 (1909.2.3 ⁺)
X	b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2 (1909.2.4 ⁺); ACI 318-14 Section 26.6.1.2. DSA IR 17-10.16 (See Appendix for exemptions.)
X	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 item 6; ACI 318-14 Sections 26.5 & 26.12
X	d. Test concrete (f'_c).	Test	LOR	1905A.1.16 (1909.3.7 ⁺); ACI 318-14 Section 26.12.
Inspection:				
X	e. Batch plant inspection <input checked="" type="radio"/> Continuous <input type="radio"/> Periodic	See Notes	SI	Default of 'Continuous' per 1705A.3.3; If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1 or eliminated per 1705A.3.3.2. (See Appendix for exemptions.)
-	11. POST-INSTALLED ANCHORS:			
X	a. Inspect installation of post-installed anchors	See Notes	SI*	1616A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic) (See Appendix for exemptions). ACI 318-14 Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by DSA.
X	b. Test post-installed anchors.	Test	LOR	1910A.5 (1909.2.7 ⁺). (See Appendix for exemptions.)
+	MASONRY TMS 402-13/ACI 530-13/ASCE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5			
-	STEEL, ALUMINUM Table 1705A.2.1, AISC 303-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10			
-	17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
Material Verification:				
X	a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	Periodic	*	2203A.1 (2203.1 ⁺), Table 1705A.2.1 Item 3a-3c; AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S200-12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when performed off-site.
X	b. Test unidentified materials	Test	LOR	2203A.1 (2203.1 ⁺).
X	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
Inspection:				



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X	e. Verify and document steel fabrication per DSA approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
-	18. HIGH STRENGTH BOLTS: RCSC 2009			
	Material Verification of High-Strength Bolts, Nuts, and Washers:			
X	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA approved documents.	Periodic	SI	Table 1705A.2.1 Item 1, 2203A.1; RCSC 2009 Section 2.1. DSA IR 17-9
X	b. Test high-strength bolts, nuts and washers.	Test	LOR	2213A.1 (2212.6.1 ⁺). RCSC 2009 Section 7.2 DSA IR 17-8.16
	Inspection of High-Strength Bolt Installation:			
X	c. Bearing-type ("snug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a; RCSC 2009 Section 9.1. DSA IR 17-9
X	d. Slip-critical connections.	*	SI	Table 1705A.2.1 Item 2b & 2c. RCSC 2009 Section 9.2 & 9.3. * "Continuous" or "Periodic" depends on the tightening method used, DSA IR 17-9 and 1705A.2.1.
-	19. WELDING: 1705A.2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.)			
	Verification of Materials, Equipment, Welders, etc:			
X	a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	Periodic	SI	DSA IR 17-3.
X	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
X	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
-	19.1 SHOP WELDING:			
X	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	Continuous	SI	Table 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.5 & 5a.6. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
-	19.2 FIELD WELDING:			
X	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	Continuous	SI	Table 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16"	Periodic	SI	Table 1705A.2.1 Item 5a.5. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	d. Inspect floor and roof deck welds	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.6; per AISC 360 (and AISC 341 as applicable) & AWS D1.3. DSA IR 17-3.
X	e. Inspect welding of structural cold-formed steel	Periodic	SI*	1705A.2.5; AWS D1.3. * May be performed by the project inspector when specifically approved by DSA. DSA IR 17-3.
-	20. NONDESTRUCTIVE TESTING:			
X	a. Ultrasonic	Test	LOR	1705A.2.1 & 1705A.2.5. AISC 360-10 N5.5, AISC 341-10 J6.2. AWS D1.1, D1.8. ANSI/ASNT CP-189, SNT-TC-1A. DSA IR 17-2.
X	b. Magnetic Particle	Test	LOR	
+				
-	23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL:			
X	a. Anchor Bolts and Anchor Rods	Test	LOR	IR 17-11 Sample and test anchor bolts and anchor rods not readily identifiable.
+	WOOD			



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12/18/2019

Revised:

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Revised:

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+ OTHER



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7-H7

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01-118661

Date Submitted:

12/18/2019

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4/15/2020

Revised:

5/20/2020

List of required verified report(s):

- 1 Soils testing and Inspection: Geotechnical Verified Report - Form DSA-293
- 2 Structural Testing and Inspection: Laboratory Verified Report - Form DSA-291
- 3 Concrete Batch Plant Inspection: Laboratory Verified Report - Form DSA-291
- 4 Post-Installed Anchors: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
- 5 Shop Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
- 6 Field Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
- 7 HS Bolt Installation Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292

KEY to Columns

1 Type -	2 Performed By -
Continuous – Indicates that a continuous special inspection is required	GE – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic – Indicates that a periodic special inspection is required	LOR – Indicates that the test or special inspection is to be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test – Indicates that a test is required	PI – Indicates that the special inspection is to be performed by a project inspector
	SI – Indicates that the special inspection is to be performed by an appropriately qualified/approved special inspector

Name of Architect or Engineer in general responsible charge

Justin Fahey (Thornton Tomasetti)

Name of Structural Engineer (When structural design has been delegated)

Justin Fahey 05/21/2020
 Signature of Architect or Structural Engineer date

IDENTIFICATION STAMP
 DIV OF THE STATE ARCHITECT
 APP. # 01-118661

AC N/A F/LS N/A SS _____

DATE _____

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT

APP: 01-118661 INC: 01

REVIEWED FOR

SS FLS ACS

DATE: 06/04/2020



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DSA File No.:

7-H7

Application No.:

01-118661

Date Submitted:

12/18/2019

Revised:

4/15/2020

Revised:

5/20/2020

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Exempt items given in IR A-22 or the 2016 CBC (including DSA amendments) and those items identified below with an "X" by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents.** The project inspector shall verify all construction complies with the approved construction documents.

Exempted by Design Prof.	
	Soils:
	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

Exempted by Design Prof.	
	Welding:
X	1. Solid-clad and open-mesh gates with maximum leaf span or rolling section for rolling gates of 10' and apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
X	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds cannot be ground flush.



DSA-103 Revised 5/8/2019

List of Required Structural Tests & Special Inspections - 2016 CBC

INCREMENT #

1

DSA File No.:

7-H7

Application No.:

01-118661

Date Submitted:

12/18/2019

Revised:

4/15/2020

Revised:

5/20/2020

	Concrete/Masonry:		
X	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding") given in CBC Section 1616A.1.18 (which replaces ASCE 7-10, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."	X	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.	X	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).
	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per IR 21-1.16. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.	X	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).
X	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.	X	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).
X	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.	X	7. Any support for exempt non-structural components given in CBC Section 1616A.1.18 (which replaces ASCE 7-10, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) <= 4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2019 CBC

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2019 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2019 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
<p>Continuous – Indicates that a continuous special inspection is required</p> <p>Periodic – Indicates that a periodic special inspection is required</p> <p>Test – Indicates that a test is required</p>	<p>GE – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.</p> <p>LOR – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.</p> <p>PI – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.</p> <p>SI – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.</p>

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

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Geotechnical Reports: Project has a geotechnical report, or CDs indicate soils special inspection is required by GE

1. GENERAL:		Table 1705A.6		
Test or Special Inspection	Type	Performed By	Code References and Notes	
<input checked="" type="checkbox"/> <p>a. Verify that:</p> <ul style="list-style-type: none"> • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity. 	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)	

2. SOIL COMPACTION AND FILL:		Table 1705A.6		
Test or Special Inspection	Type	Performed By	Code References and Notes	
<input checked="" type="checkbox"/> <p>a. Perform classification and testing of fill materials.</p>	Test	LOR*	* Under the supervision of the geotechnical engineer.	
<input checked="" type="checkbox"/> <p>b. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.</p>	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix for exemptions where soils SI and testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.)	

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

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<input checked="" type="checkbox"/>	c. Compaction testing.	Test	LOR*	* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)
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3. DRIVEN DEEP FOUNDATIONS (PILES):		Table 1705A.7		
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Verify pile materials, sizes and lengths comply with the requirements.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/>	b. Determine capacities of test piles and conduct additional load tests as required.	Test	LOR*	* Under the supervision of the geotechnical engineer.
<input type="checkbox"/>	c. Inspect driving operations and maintain complete and accurate records for each pile.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/>	d. Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/>	e. Steel piles.	Provide tests and inspections per STEEL section below.		
<input type="checkbox"/>	f. Concrete piles and concrete filled piles.	Provide tests and inspections per CONCRETE section below.		

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<input type="checkbox"/>	g. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	*	*	* As defined on drawings or specifications.
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4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):		Table 1705A.8		
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
<input type="checkbox"/>	b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable); record concrete or grout volumes.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
<input type="checkbox"/>	c. Confirm adequate end strata bearing capacity.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
<input type="checkbox"/>	d. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

5. RETAINING WALLS:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Placement, compaction and inspection of backfill.	Continuous	GE*	1705A.6.1. * By geotechnical engineer or his or her qualified representative. (See Section 2 above).

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<input type="checkbox"/>	b. Placement of soil reinforcement and/or drainage devices.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/>	c. Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. See DSA IR 16-3.
<input checked="" type="checkbox"/>	d. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
<input type="checkbox"/>	e. Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

6. OTHER SOILS:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Soil Improvements	Test	GE*	Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS for final acceptance. * By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/>	b. Inspection of Soil Improvements	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/>	c.			

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13

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7. CAST-IN-PLACE CONCRETE				
Test or Special Inspection		Type	Performed By	Code References and Notes
Material Verification and Testing:				
<input checked="" type="checkbox"/>	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
<input checked="" type="checkbox"/>	b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-14 Section 26.6.1.2; DSA IR 17-10. (See Appendix for exemptions.)
<input checked="" type="checkbox"/>	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-14 Sections 26.5 & 26.12.
<input checked="" type="checkbox"/>	d. Test concrete (f'c).	Test	LOR	1905A.1.15; ACI 318-14 Section 26.12.
Inspection:				
<input checked="" type="checkbox"/>	e. Batch plant inspection: Periodic	See Notes	SI	Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. (See Appendix for exemptions.)
<input type="checkbox"/>	f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category 19.1(d) & (e) and/or 19.2(g) & (h) below.		

8. PRESTRESSED / POST-TENSIONED CONCRETE (in addition to Cast-in-Place Concrete tests and inspections):
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DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13

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	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1910A.3
<input type="checkbox"/>	b. Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Items 1 & 9.
<input type="checkbox"/>	c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Periodic	SI	Table 1705A.3 Item 11. Special inspector to verify specified concrete strength test prior to stressing.
<input type="checkbox"/>	d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	Continuous	SI	1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13

9. PRECAST CONCRETE (in addition to Cast-in-Place Concrete tests and inspections):				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-14 Section 26.13.
<input type="checkbox"/>	b. Inspect erection of precast concrete members.	Periodic	SI*	Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA.

10. SHOTCRETE (in addition to Cast-in-Place Concrete tests and inspections):				
	Test or Special Inspection	Type	Performed By	Code References and Notes

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13

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<input type="checkbox"/>	a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	1705A.19, Table 1705A.3 Item 7, 1908A.6, 1908A.7, 1908A.8, 1908A.9, 1908A.11, 1908A.12. See ACI 506.2-13 Section 3.4, ACI 506R-16.
<input type="checkbox"/>	b. Sample and test shotcrete (f'_c).	Test	LOR	1908A.5, 1908A.10.

11. POST-INSTALLED ANCHORS:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA.
<input checked="" type="checkbox"/>	b. Test post-installed anchors.	Test	LOR	1910A.5. (See Appendix for exemptions.)

12. OTHER CONCRETE:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a.			

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES				
Material Verification and Testing:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a 3c. 2202A.1; AISI S100-16 Section A3.1 & A3.2, AISI S240-15 Section A3 & A5, AISI S220-15 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
<input checked="" type="checkbox"/>	b. Test unidentified materials	Test	LOR	2202A.1.
<input checked="" type="checkbox"/>	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
Inspection:				
<input checked="" type="checkbox"/>	d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).

18. HIGH-STRENGTH BOLTS: RCSC 2014				
Material Verification and Testing of High-Strength Bolts, Nuts and Washers:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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<input checked="" type="checkbox"/>	b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.
Inspection of High-Strength Bolt Installation:				
<input checked="" type="checkbox"/>	c. Bearing-type (“snug tight”) connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
<input checked="" type="checkbox"/>	d. Pretensioned and slip-critical connections.	*	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. * “Continuous” or “Periodic” depends on the tightening method used.

19. WELDING:	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3 (See Appendix for exemptions.)
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Verification of Materials, Equipment, Welders, etc.:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/>	b. Verify weld filler material manufacturer’s certificate of compliance.	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/>	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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19.1 SHOP WELDING:				
Test or Special Inspection	Type	Performed By	Code References and Notes	
<input checked="" type="checkbox"/> a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1 4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.	
<input checked="" type="checkbox"/> b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.	
<input checked="" type="checkbox"/> c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.	
<input type="checkbox"/> d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.	
<input type="checkbox"/> e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.	

19.2 FIELD WELDING:				
Test or Special Inspection	Type	Performed By	Code References and Notes	
<input type="checkbox"/> a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1 4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.	
<input type="checkbox"/> b. Inspect single-pass fillet welds ≤ 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.	

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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<input type="checkbox"/>	c. Inspect end-welded studs (ASTM A-108) installation (including bend test).	Periodic	SI	2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
<input type="checkbox"/>	d. Inspect floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
<input type="checkbox"/>	e. Inspect welding of structural cold-formed steel.	Periodic	SI*	1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-15 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
<input type="checkbox"/>	f. Inspect welding of stairs and railing systems.	Periodic	SI*	1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
<input type="checkbox"/>	g. Verification of reinforcing steel weldability.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
<input type="checkbox"/>	h. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

20. NONDESTRUCTIVE TESTING: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Ultrasonic	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; ANSI/ASNT CP-189, SNT-TC-1A; AWS D1.1, AWS D1.8; DSA IR 17-2.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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<input type="checkbox"/>	b. Magnetic Particle	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; ANSI/ASNT CP-189, SNT-TC-1A; AWS D1.1, AWS D1.8; DSA IR 17-2.
<input type="checkbox"/>	c.	Test	LOR	

21. STEEL JOISTS AND TRUSSES: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	Continuous	SI	1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses.

22. SPRAY APPLIED FIRE-PROOFING: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	Periodic	SI	1705A.14.
<input type="checkbox"/>	b. Test bond strength.	Test	LOR	1705A.14.6.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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<input type="checkbox"/>	c. Test density.	Test	LOR	1705A.14.5.
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23. ANCHOR BOLTS AND ANCHOR RODS:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
<input checked="" type="checkbox"/>	b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

Other Steel				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a.			

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

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Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents.** The project inspector shall verify all construction complies with the approved construction documents.

SOILS:	
<input type="checkbox"/>	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
<input type="checkbox"/>	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

CONCRETE/MASONRY:	
<input type="checkbox"/>	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding") given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."
<input checked="" type="checkbox"/>	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

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<input type="checkbox"/>	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.16. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
<input type="checkbox"/>	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.
<input type="checkbox"/>	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	Welding:
<input type="checkbox"/>	1. Solid-clad and open-mesh gates with maximum leaf span or rolling section for rolling gates of 10' and apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
<input checked="" type="checkbox"/>	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
<input type="checkbox"/>	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
<input type="checkbox"/>	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).
<input type="checkbox"/>	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

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<input type="checkbox"/>	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 located in the Steel/Aluminum category).
<input type="checkbox"/>	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) $\leq 4'$ above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2019 CBC

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Name of Architect or Engineer in general responsible charge:	
Name of Structural Engineer (When structural design has been delegated): Brian T. Dean, S.E.	
Signature of Architect or Structural Engineer: <i>Brian Dean</i>	Date: 11-18-2020

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.



DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

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1. Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293

2. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291

3. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291

4. Post-installed Anchors: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

5. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

6. High-Strength Bolt Installation Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
