



SANTA MONICA - MALIBU UNIFIED SCHOOL DISTRICT

**REQUEST FOR PROPOSALS (RFP)
DEPUTY INSPECTION SERVICES
FOR THE LINCOLN MS, GRANT ES, AND SMASH/MUIR
HVAC AND MODERNIZATION PROJECT AND THE EDISON
LANGUAGE ACADEMY SOLAR POWER PROJECT**

April 9, 2020

GENERAL INFORMATION

This RFP is to provide Deputy Inspection services required for the construction of the HVAC and Modernization Project on the Lincoln MS, Grant ES, and SMASH/Muir campuses and the Solar Power Project on the Edison Language Academy campus beginning in June 2020.

PROJECT DESCRIPTION

The HVAC and Modernization Project on the Lincoln MS, Grant ES, and SMASH/Muir campuses consists of new HVAC installations in classrooms and other spaces that have historically only had heating systems. It also consists of new windows, doors, paint and other modernization installations. There are a total of 4 DSA A#'s associated with the work at these three campuses. There is a single A# associated with the work at Grant ES, a separate A# associated with the work at SMASH/Muir, and two A#'s associated with the work at Lincoln MS. Construction work is scheduled to begin in June of 2020 and complete in the fall of 2021. Work hours will vary throughout the project in order to accommodate the uses that occur during the normal school calendar.

The Solar Power Project at the Edison Language Academy will include the installation of three new solar structures that will also provide shade for parking and student lunch areas. This project will be associated with a DSA A# separate from the 4 itemized in the paragraph above.

Construction is scheduled to begin in June 2020, with final completion by fall of 2021.

ESTIMATED CONSTRUCTION COST

The anticipated construction cost for both projects is: \$22 million

SCOPE OF SERVICES

Provide sufficient staffing to provide all inspection services as outlined in the attached contract agreement (**Appendix A**) for the complete construction and fit-out of the project.

The DSA 103 (**Appendix B**) – “List of Required Structural Tests and Special Inspections” for this project is provided as the basis for the scope of work for this RFP.

COST PROPOSAL

Please provide a detailed estimate of time and cost for the various services required per the DSA-103 form provided, no project plans or specifications will be provided. This is to be a Not to Exceed estimate of the total costs of inspection services for the full project, beginning on June 10, 2020

with completion by August 22, 2021. In your cost proposal, please include separate line item totals for each of the 5 A#'s associated with this RFP.

Provide a current hourly rate sheet for use for additional similar services (should these be required) as an additional appendix. Please itemize the expected reimbursable expenses and include them in the cost proposal. Only people, positions, and expenses listed in the final accepted cost proposal will be allowed on this project unless authorized by the District in writing in advance.

If billing rates are anticipated to increase during the project, the escalated costs must be clearly indicated and included in the cost proposal. Rates should include all costs associated with the proposed work, including but not limited to salary, travel, mileage, car allowances, cell phones, insurance, home office expenses, overhead, profit, computers, tablets, office supplies, and all other related costs of doing business.

Proposals are due electronically no later than 3:00 PM on April 23, 2020. Proposals are to be emailed to Sheere Bishop-Griego at smbishop@smmusd.org, Director of Procurement and Contract Management – Consultant. **Subject line of email to note “Lincoln MS, Grant ES, SMASH/Muir & Edison ES – Deputy Inspection Proposal”.**

Please submit, one copy of the cost proposal, indicating the proposed fee. The cost proposal will be used as a basis for negotiation. Should the District be unable to reach acceptable terms with the highest ranked firm, it will enter into fee negotiations with the second ranked firm, and so on, until an acceptable fee is negotiated, at which time the District will award the services to the selected firm.

RESUMES

Include resumes of the proposed project team members, including any sub-consultants. Individual resumes should not exceed two pages each.

ANTICIPATED SCHEDULE (subject to change)

RFP Issued:	April 9, 2020
Proposals Due:	April 23, 2020 by 3:00 PM
Planned Board Award:	May 21, 2020
Commencement of Services:	May 25, 2020

Please note, the schedule does not allow time for pre-proposal questions. Therefore, any questions submitted will not be answered.

RESTRICTIONS ON LOBBYING AND CONTACTS

Beginning with the date of issuance of this RFP and concluding on the date of execution of the services for this project, no person or entity submitting a response to this RFP, nor any person, officer, employee, consultant, agent, or representative of the same shall through any means contact any employee of the District, any Board of Education member, any consultant for the District (including any project architect or any member of the program management team), or any member of any District-appointed committee to engage in any discussion regarding (1) this RFP, (2) the selection process or (3) award of this contract. **Any such contact shall be grounds for the immediate disqualification of the submitting entity without consideration of its proposal.**

CONFLICTS OF INTEREST

As part of this proposal, the proposing entity must affirmatively state that there is no known conflict of interest or must disclose any potential conflict of interest involving any District employee, consultant, or member of the Board of Education. Subsequent discovery of an undisclosed actual conflict of interest shall be adequate grounds for the District to terminate the agreement for cause. By submitting a proposal, the submitting entity consents to termination for cause in the event that an undisclosed actual conflict of interest is discovered. **Failure to include this statement will be grounds for immediate disqualification of the submitting entity without consideration of its proposal.**

**THE DISTRICT THANKS YOU FOR YOUR INTEREST IN PROVIDING THE
REQUESTED SERVICES AND INVITES YOUR RESPONSES TO THIS
REQUEST FOR PROPOSALS.**

APPENDIX A

DRAFT PROFESSIONAL SERVICES PROJECT TESTING AND SPECIAL INSPECTION SERVICES AGREEMENT

Please review the draft agreement attached. By submitting a proposal, the submitting firm confirms that it has no exceptions or changes to the agreement provided.

SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT
AGREEMENT FOR PROFESSIONAL SERVICES
PROJECT TESTING AND SPECIAL INSPECTION SERVICES

This Agreement for Project Testing and Special Inspection Services ("Agreement") is dated _____, 2016 for reference purposes only and is entered into between the **Santa Monica-Malibu Unified School District** ("District") and _____ ("Testing Consultant"). The District and Testing Consultant may be individually referred to herein as a "Party" or collectively referred to herein as the "Parties."

RECITALS

WHEREAS, District is [brief description of Project, e.g., renovating a classroom building, constructing a new science building, etc. at the District's _____ campus] under the jurisdiction of the Division of State Architect ("DSA"), commonly known as the _____ ("Project" or "Site"), and has awarded a construction contract to _____ to perform the work of the Project ("Construction Work"); and

WHEREAS, District has retained the services of _____ as the architect and design professionals of the Construction Work ("Architect"); and

WHEREAS, the Construction Work shall be performed pursuant to District-approved plans, drawings, specifications, rules, regulations, and statutes applicable to school construction and other contract documents ("Contract Documents"); and

WHEREAS, the District requires the services of a Testing Consultant approved by DSA in accordance with Section 4-335 of Title 24 of the California Code of Regulations to provide testing and special inspections during the Work; and

WHEREAS, the Testing Consultant warrants and represents that the individuals it is assigning to perform the duties and responsibilities required by this Agreement and by applicable laws and regulations for the inspection of Work at the Project site, including those providing special inspections ("Special Inspector") are competent and qualified.

NOW, THEREFORE, the Parties agree as follows:

AGREEMENT

1 TESTING CONSULTANT'S SERVICES AND RESPONSIBILITIES

1.1 Scope of Services. Testing Consultant shall perform consulting services as set forth in this Agreement and specifically described in the "Scope of Work" attached hereto as **Exhibit A** and incorporated herein by this reference ("Services"). The Scope of Work together with this Agreement shall constitute the "Agreement".

1.1.1 Notwithstanding anything express or implied to the contrary, the Testing Consultant shall comply with all federal, state, county and local governmental requirements, including but not limited to Sections 4-333, 4-335 and 4-336 of Title 24.

1.1.2 At completion of the Project, Testing Consultant shall deliver a copy of all inspection and testing records and project correspondence to the District.

- 1.1.3 The Testing Consultant shall submit all verified reports to DSA in compliance with State law, including but not limited to Section 4-336 of Title 24, which reports shall be based on upon actual personal knowledge obtained through personal inspection of the Work.
- 1.1.4 The Testing Consultant shall maintain detailed, comprehensive, organized, accessible, and timely documentation of all testing and inspections performed for the District (“Testing and Inspection Records”). The Testing and Inspection Records shall include, without limitation, a systematic record of the tests inspections performed by the Testing Consultant and a job log of the Testing Consultant’s time spent the Project.

1.2 Qualified Personnel. Testing Consultant represents and warrants that it, and each of the Testing Consultant’s personnel performing Services pursuant to this Agreement, is skilled in the professional calling necessary to perform all Services, duties and obligations required by this Agreement and is fully qualified to complete the Services. All Special Inspectors shall be subject to DSA approval. All Testing Consultant personnel provided under this Agreement shall be subject to approval by the District, and any changes in personnel from those initially provided by Testing Consultant shall require District approval. The District reserves the right to require the substitution of personnel if, in the judgment of the District, the personnel should at any time prove unsatisfactory to the needs of the District.

1.3 Standard of Care. Testing Consultant shall perform the Services and duties in conformance and consistent with the standards generally recognized as being employed by professionals in the same type of work for school districts in the State of California. Testing Consultant shall be responsible for the professional and technical soundness, accuracy and adequacy of all work, Services and materials furnished under this Agreement.

1.4 Licenses/Qualifications. Testing Consultant represents and warrants to the District that it has all licenses, permits, qualifications and approvals of whatever nature which are legally required to practice its profession. Testing Consultant further represents that it shall keep all such licenses and approvals in effect during the term of this Agreement.

1.5 Independent Contractor. The District retains Testing Consultant as an independent contractor and neither the Testing Consultant nor its agents or employees are deemed to be employees of the District. Personnel performing the Services under this Agreement on behalf of the Testing Consultant shall at all times be under the Testing Consultant’s exclusive direction and control. Testing Consultant shall pay all wages, salaries and other amounts due such personnel in connection with their performance for Services and as required by law, including but not limited to payment of prevailing wages as required by Labor Code §1771. Testing Consultant shall be responsible for all reports and obligations respecting such personnel, including but not limited to, social security taxes, income tax withholdings, unemployment insurance, and workers’ compensation insurance.

1.6 Safety Precautions. Testing Consultant shall take all reasonable safety precautions related to performance of the Services under this Agreement, and shall provide reasonable protection to prevent damage, injury or loss to its employees or personnel providing Services hereunder and other persons who may be affected thereby. Testing Consultant shall promptly provide notice to the District Representative of any accidents arising out of or in connection with the Services, causing death, personal injury or property damage including full details and statements of any witnesses. In addition, if death, serious personal injuries or serious property damages are caused, the accident shall be reported immediately by telephone or messenger to the District Representative.

- 1.7 **Fingerprinting.** Testing Consultant shall comply with the provisions of Education Code §45125.01 regarding the submission of employee fingerprints to the California Department of Justice and the completion of criminal background investigations of its employees. Testing Consultant shall not permit any employee to have any contact with District pupils until such time as the Testing Consultant has verified in writing that the employee has not been convicted of a felony, as defined in Education Code §45122.1. Testing Consultant's responsibility shall extend to all employees, substitute Testing Consultants, agents and employees or agents of substitute Testing Consultants regardless of whether those individuals are paid or unpaid or acting as independent consultants of the Testing Consultant. Verification of compliance with this section and the Criminal Background Investigation Certification shall be provided in writing to the District prior to each individual's commencement of employment or participation on the Project and prior to permitting contact with any student.
- 1.8 **Disabled Veteran Business Enterprises.** Section 17076.11 of the Education Code requires school districts using funds allocated pursuant to the State of California School Facility Program for the construction or modernization of a school building to have a participation goal of at least 3 percent, per year, of the overall dollar amount expended each year by the school district, for disabled veteran business enterprises (DVBE). In accordance therewith, Testing Consultant must submit, upon request by District, appropriate documentation to District identifying the steps Testing Consultant has taken to solicit DVBE participation in conjunction with this Agreement, if applicable.
- 1.9 **Conflict of Interest.** Testing Consultant shall not have a financial or investment interest in any person, contractor, entity, or their employees, agents, or subcontractors with responsibilities for the construction of, design of, or other work or duties related to the Project. Testing Consultant shall not have the authority to assist any person, contractor, entity, or their employees, agents, or subcontractors in the performance of any Construction Work on the Project. Testing Consultant shall not undertake any responsibilities of any person, contractor, entity, or their employees, agents, or subcontractors for the Construction Work of the Project.

2 RESPONSIBILITIES OF DISTRICT

- 2.1 **District Representative.** The District Representative for purposes of this Agreement is _____ . All communication and correspondence for the District shall be through the District Representative.
- 2.2 **District Information.** The District shall provide the Testing Consultant with documented information in its possession which is reasonably necessary for the performance of the Services described herein; however, the District makes no representations with respect to the reliability, accuracy or completeness of an information or data it may furnish to Testing Consultant.

3 TESTING CONSULTANT COMPENSATION

- 3.1 **Contract Price.** The District shall pay Testing Consultant the sum of \$ _____ for the Services. The Contract Price includes Testing Consultant's fee, personnel expenses, inclusive of all benefits and burdens, fees of any sub-consultant or subcontractor to Testing Consultant, insurance and all other administrative or overhead costs and all other direct and indirect expenses incurred in the performance of this Agreement.
- 3.2 **District Payments to Testing Consultant.** Invoices for compensation shall be submitted monthly, in arrears, for fees for Services provided during the previous month. For invoices where

work is performed at more than one (1) school, fees shall be identified by school and/or project. Within thirty (30) days of receipt and acceptance of a properly submitted invoice from the Testing Consultant, the District shall review and pay all approved charges thereon. If the District requires additional information or documentation to verify and approve the compensation request, the Testing Consultant shall promptly provide such information or documentation, and the payment period shall be extended by the number of days needed to provide such information or documentation. The District may, however, withhold or deduct from amounts otherwise due Testing Consultant hereunder if Testing Consultant shall fail to timely and completely perform material obligations to be performed on its part under this Agreement, with the amounts withheld or deducted being released after Testing Consultant has fully cured its failure of performance, less costs, damages or losses sustained by the District as a result of such failure of performance of a material obligation hereunder.

3.3 Disputes; Continuation of Services. Any claim, dispute or controversy that the Testing Consultant may have regarding the performance, or any term or provision, of this Agreement including, but not limited to, claims for additional compensation, shall be submitted to the District in writing within thirty (30) days after its occurrence. The District and the Testing Consultant shall attempt to negotiate a resolution of such claim, dispute or controversy. However, except in the event of the District's failure to make payment of undisputed amounts of the sums due Testing Consultant hereunder, notwithstanding any disputes between District and Testing Consultant, Testing Consultant shall continue to provide and perform Services pending a subsequent resolution of such disputes.

4 TERM OF AGREEMENT; TERMINATION

4.1 Term. The Term of this Agreement ("Term") shall commence upon the approval or ratification by the District's Board of Education and execution by the District and Testing Consultant ("Effective Date") and continue until the time set forth in the Scope of Work; however, the term may be extended upon further written agreement of the parties.

4.2 Termination. This Agreement may be terminated at the sole discretion of the District, for the District's convenience, at any time by written notice to the Testing Consultant. The District may terminate this Agreement for cause upon written notice to the Testing Consultant where the Testing Consultant is in material violation of this Agreement or performs any act exposing the District to liability for personal injury or property damage. If the Agreement is terminated pursuant to this Article, the Testing Consultant shall be compensated for all authorized Services performed to the District's satisfaction prior to the effective date of termination. Upon receipt of a termination notice, the Testing Consultant shall promptly discontinue services as directed by the notice and shall deliver to the District all test data, drawings, specifications, reports, estimates, summaries and such other information and materials as may have been accumulated by the Testing Consultant in performing the Services authorized hereunder, whether completed or in progress. The Testing Consultant shall cooperate fully with the District in the Testing Consultant's replacement, as may be required to maintain the timely prosecution of the Services.

5 INSURANCE AND INDEMNITY

5.1 Insurance. Commencing with the execution of this Agreement, Testing Consultant and its sub-consultants shall maintain the following insurance coverage amounts and limits:

<i>Workers Compensation</i>	<i>In accordance with applicable law</i>
<i>Employers Liability</i>	<i>\$1,000,000</i>
<i>Commercial General Liability (including Bodily</i>	

<i>Injury or Death and Property Damage)</i>	
<i>Per Occurrence</i>	\$1,000,000
<i>Aggregate</i>	\$2,000,000
<i>Automobile Liability - Bodily Injury or Death</i>	
<i>Per Occurrence</i>	\$1,000,000
<i>General Aggregate</i>	\$2,000,000
<i>Professional Liability</i>	\$1,000,000

The District shall be named as an additional insured on the Commercial General Liability policy, with respect to the Testing Consultant’s Services. The District shall be provided with thirty (30) days’ written notice before cancellation of or any material change in such insurance. Prior to commencement of Services, Testing Consultant shall provide the District with a Certificate of Insurance and, as applicable, an endorsement naming the District as additional insured on all required policies including: (a) a statement of the services and location for which the insurance coverage is for; (b) a provision for thirty (30) calendar days’ written notice to the District before cancellation, suspension, or reduction in coverage or limits; and (c) a provision that such insurance is primary and that the District’s self-insurance and insurance programs shall be non-contributory.

5.2 Indemnity. To the fullest extent permitted by law, the Testing Consultant shall, defend, indemnify, protect, and hold harmless the District, and its employees, officers, trustees and agents from and against any and all claims, demands, losses, responsibilities, liabilities, costs, damages, fines, penalties of any kind (“Claim”), arising out of, pertaining to or relating to, in whole or in part, the negligent, reckless or willful acts, omissions or other misconduct of the Testing Consultant, its sub-consultants, or their respective agents or employees in performing the Services. The indemnification specified herein excludes Testing Consultant’s liability as to the active or sole negligence or willful misconduct of the District. The foregoing shall include without limitation, attorneys’ fees, experts’ fees and costs, investigation expenses and costs incurred by the District, and any defense afforded pursuant to this paragraph will be provided by counsel acceptable to the District. This obligation is not limited in any way by the amount or type of damages or compensation payable to Testing Consultant or its sub-consultant(s) under applicable policies of insurance, workers’ compensation acts, disability benefits acts or other employee benefits acts. This obligation shall apply during the Term of the Agreement and shall survive any termination of this Agreement until any such Claim is barred by the applicable statute of limitation and is in addition to any other rights or remedies that the District may have under the law or under this Agreement.

6 MISCELLANEOUS

6.1 Governing Law; Interpretation. This Agreement shall be governed and interpreted in accordance with the laws of the State of California in accordance with its fair meaning and not strictly for or against the District or Testing Consultant.

6.2 Successors; Non-Assignability. This Agreement and all terms hereof are binding upon and inure to the benefit of the respective successors and assigns of Testing Consultant and the District. Neither the Testing Consultant nor District shall assign rights or obligations hereunder without the prior written consent of the other, which consent may be withheld or granted in sole discretion of the Party requested to grant such consent. This Agreement may not be orally amended, modified or terminated.

6.3 Attorneys’ Fees. Except as authorized by law or as provided in Article 5 hereunder, neither the District nor the Testing Consultant shall recover from the other any attorneys’ fees or other costs

associated with or arising out of any legal, administrative or other proceedings filed or instituted in connection with or arising out of this Agreement or the performance of either the District or the Testing Consultant thereunder.

- 6.4 Ownership of Records; Copies.** All reports, maps, surveys, logs, field data, field notes, calculations, estimates and other documents prepared by Testing Consultant under this Agreement shall remain the property of the District and shall be made available upon request to the District at any time. Testing Consultant may retain copies of such documents.
- 6.5 Audit.** Testing Consultant shall establish and maintain books, records, and systems of account, in accordance with generally accepted accounting principles, reflecting all business operations of Testing Consultant transacted under this Agreement. Testing Consultant shall retain these books, records, and systems of account during the Term of this Agreement and for five (5) years thereafter. Testing Consultant shall 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 Testing Consultant and shall conduct audit(s) during Testing Consultant's normal business hours, unless Testing Consultant otherwise consents.
- 6.6 Anti-Discrimination.** It is the policy of the District that in connection with all work performed under this Agreement 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 Testing Consultant 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 Testing Consultant agrees to require like compliance by all its subcontractor(s).
- 6.7 Severability.** If any provision of this Agreement is deemed illegal, invalid, unenforceable or void by any court of competent jurisdiction, such provision shall be deemed stricken and deleted here from, but all remaining provisions will remain and continue in full force and effect.
- 6.8 Notices.** Notices under this Agreement shall be addressed and delivered as follows:

If to District: Santa Monica-Malibu Unified School District
1651 16th Street
Santa Monica, California 90404
ATTN: _____
Facsimile: (____) _____
Telephone: (____) _____

If to Consultant:

6.9 Provisions Required by Law Deemed Inserted. Each and every provision of law and clause required by law to be inserted in this Agreement shall be deemed to be inserted herein and this Agreement shall be read and enforced as though it were included herein.

ACCEPTED AND AGREED on the date indicated below:

Dated: _____, 2016

Dated: _____, 2016

Santa Monica-Malibu Unified School District _____

By: _____

By: _____

Print Name: _____

Print Name: _____

Print Title: _____

Print Title: _____

DRAFT

EXHIBIT A – SCOPE OF SERVICES

DRAFT

WORKERS' COMPENSATION CERTIFICATION

Labor Code Section 3700 in relevant part provides:

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 Services of this Agreement.

Date: _____

Proper Name of Testing Consultant: _____

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 Services under this Agreement.)

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 Consultant Agreement for Professional Services (“Agreement”):

[TO BE COMPLETED BY AUTHORIZED DISTRICT EMPLOYEE ONLY.] Testing Consultant’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 Testing Consultant’s employees so that the fingerprinting and criminal background investigation requirements of Education Code section 45125.1 shall not apply to Testing Consultant 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. (Education 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 Testing Consultant’s services under this Agreement and Testing Consultant certifies its compliance with these provisions as follows: *“Testing Consultant certifies that the Testing Consultant has complied with the fingerprinting and criminal background investigation requirements of Education Code section 45125.1 with respect to all Testing Consultant’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 Testing Consultant, 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.”*

Megan’s Law (Sex Offenders). I have verified and will continue to verify that the employees of Testing Consultant that will be on the Project site and the employees of its 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 TESTING CONSULTANT’S AUTHORIZED REPRESENTATIVE.] I am a representative of the Testing Consultant 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 Testing Consultant.

Date: _____
Name of Testing Consultant: _____
Signature: _____
Print Name and Title: _____

APPENDIX B

PROJECTS DSA-103 FORMS PER PROJECT LISTED ARE ATTACHED

- Grant Elementary School – DSA A#03-120190
- Lincoln Middle School G&K - DSA A#03-120376
- Lincoln Middle School HVAC - DSA A#03-120438
- SMASH/Muir Elementary School – DSA A#03-120122
- Edison Language Academy – DSA A#00-000000



DSA-103 Revised 5/8/2019
List of Required Structural Tests & Special Inspections - 2016 CBC

INCREMENT #

DSA File No.:

19-96

Application No.:

03-120190

Date Submitted:

12/17/2019

Revised:

Revised:

School Name	Grant E.S.	District	Santa Monica 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 type="radio"/> Project has a geotechnical report, or CDs indicate soils special inspection is required by GE. <input checked="" 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. 	See Notes	PI	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.
-	2. SOIL COMPACTION AND FILL:			Table 1705A.6
X	b. Verify use of proper materials, densities and inspect lift thicknesses, placement, and compaction during placement of fill.	Continuous	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
X	c. Compaction testing.	Test	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
-	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*)



DSA-103 Revised 5/8/2019
List of Required Structural Tests & Special Inspections - 2016 CBC

INCREMENT #

DSA File No.:

19-96

Application No.:

03-120190

Date Submitted:

12/17/2019

Revised:

Revised:

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 type="radio"/> Continuous <input checked="" 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.)
8. PRESTRESSED / POST-TENSIONED CONCRETE (in addition to Cast-In-Place Concrete tests and inspections):				
X	b. Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Items 1 & 9.
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:				
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).
- 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.



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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.
X	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1. Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. 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	f. Inspect welding of stairs and railing systems	Periodic	SI*	1705A.2.1; Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
-	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.
X	b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in IR 17-11
-	WOOD			
+	OTHER			



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List of required verified report(s):

- 1 Structural Testing and Inspection: Laboratory Verified Report - Form DSA-291
- 2 Concrete Batch Plant Inspection: Laboratory Verified Report - Form DSA-291
- 3 Prestressed / Post-Tensioned Concrete Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
- 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

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

ROBERT J. MORALES C19726

Name of Architect or Engineer in general responsible charge

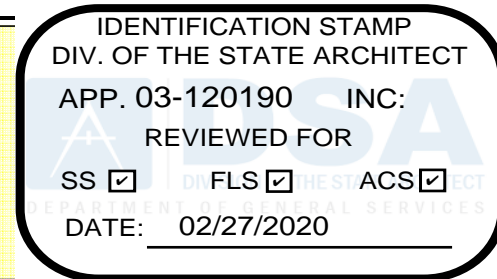
YOUNG K. NAM S4029

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

12/18/19

Signature of Architect or Structural Engineer

date





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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.	<p>Soils:</p> <p>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.</p> <p>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.</p>
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Exempted by Design Prof.	<p>Welding:</p> <p>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.</p> <p>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.</p>
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	Concrete/Masonry:			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.
	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."			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).
X	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.			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).
	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.			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).
	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.			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.
	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.			



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Revised:

School Name	Lincoln Middle School	District	Santa Monica - Malibu 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 type="radio"/> Project has a geotechnical report, or CDs indicate soils special inspection is required by GE. <input checked="" type="radio"/> Project does NOT have and does NOT require a geotechnical report.
-	1. GENERAL:			Table 1705A.6
X	a. Verify that: • 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.	See Notes	PI	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.
-	2. SOIL COMPACTION AND FILL:			Table 1705A.6
X	b. Verify use of proper materials, densities and inspect lift thicknesses, placement, and compaction during placement of fill.	Continuous	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
X	c. Compaction testing.	Test	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
-	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	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
X	c. Verify pier locations, diameters, plumbness, and lengths. Record concrete or grout volumes.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.



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X	e. Concrete piers.	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		
-	13. STRUCTURAL MASONRY:	Enter f'_m	2000	psi
Material Verification and testing:				
(See Appendix for exemptions.)				
X	a. Mill certificate indicates compliance with requirements for reinforcement, anchors, ties, fasteners, and metal accessories. See item 7b above for identification, sampling, and testing of reinforcing steel.	Periodic	SI*	2103A.4 (2103.4 ⁺), TMS 602-13 Article 1.5B.2 & 2.4. * To be performed by qualified LOR representative. Applicable testing by LOR. See IR 17-10.16 for unidentified reinforcing steel.
X	b. Producer's certificate of compliance for masonry units, mortar and grout materials.	Test	LOR	1705A.4
X	c. Test masonry (f'_m).	Test	LOR	1705A.4. For Unit Strength: 2105A.3 (2114.6.1 ⁺), TMS 602-13 Article 1.4B.2, 1.5B.1 & 1.5B.2. For Prism (required when $f'_m > 2000$ psi): 2105A.2, TMS 602-13 Article 1.4B.3, 1.4B.4, 1.5B.1 & 1.5B.2.
X	d. Verify proportions of site-prepared, premixed or preblended mortar and grout.	Periodic	SI	TMS 402-13 Table 3.1.3 Item 2a, TMS 602-13 Table 5 Item 2a.
X	e. Test core-drilled samples.	Test	LOR	2105A.4 (2114.6.2 ⁺). (See Appendix for exemptions.)
Inspection:				
(See Appendix for exemptions.)				
X	g. Verify size, location and condition of all dowels, construction supporting masonry, etc.	Periodic	SI	
X	h. Verify size, grade, and type of reinforcement and anchor bolts.	Periodic	SI	TMS 402-13 Table 3.1.3 Item Item 2b, TMS 602-13 Table 5 Item 2b.
X	j. Inspect placement of reinforcement and connectors.	Continuous	SI	TMS 402-13 Table 3.1.3 Item 2d, TMS 602-13 Table 5 item 2d.
X	k. Inspect placement of masonry units and construction of mortar joints.	Periodic	SI	TMS 402-13 Table 3.1.3 Item 2c, TMS 602-13 Table 5 Item 2c.



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X	l. Verify preparation, construction, and protection of masonry during cold weather (temperature below 40° F) or hot weather (temperature above 90°).	Periodic	SI*	TMS 402-13 Table 3.1.3 Item 2j; TMS 602-13 Table 5 Item 2j. * May be performed by the project inspector when specifically approved by DSA.
X	m. Inspect type, size, and location of anchors and all other items to be embedded in masonry including other details of anchorage of masonry to structural members, frames and other construction.	Continuous	SI	TMS 402-13 Table 3.1.3 Item Item 2h, TMS 602-13 Table 5 Item 2h.
X	n. Inspect grout space prior to grouting and placement of grout.	Continuous	SI	TMS 402-13 Table 3.1.3 Item Item 2e & 2f, TMS 602-13 Table 5 Item 2e & 2f.
-	15. POST-INSTALLED ANCHORS IN MASONRY:			
X	a. Inspect installation of post-installed anchors	See Notes	SI*	1705A.4, 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. (See Appendix for exemptions.)
X	b. Test post-installed anchors.	Test	LOR	1705A.4, 1910A.5 (1909.2.7 ⁺). (See Appendix for exemptions.)
-	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 ⁺).
	Inspection:			
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	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:			
	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	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.



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X	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1. Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3.
-	19.2 FIELD WELDING:			
X	b. Inspect single-pass fillet welds $\leq 5/16"$	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	f. Inspect welding of stairs and railing systems	Periodic	SI*	1705A.2.1; Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
+				
+	WOOD			
+	OTHER			



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

Richard Ingrassia

Name of Architect or Engineer in general responsible charge

Derrick Masulis

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

Derrick Masulis

Signature of Architect or Structural Engineer

12-10-19

date

IDENTIFICATION STAMP
 DIV OF THE STATE ARCHITECT
 APP. # **03-120376**

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

DATE _____





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Date Submitted:	12/19/2019	Revised:
		Revised:

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:
	<p>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.</p> <p>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.</p>

Exempted by Design Prof.	Welding:
	<p>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.</p> <p>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.</p>



DSA-103 Revised 5/8/2019

List of Required Structural Tests & Special Inspections - 2016 CBC

INCREMENT #

DSA File No.:

19-96

Application No.:

03-120376

Date Submitted:

12/19/2019

Revised:

Revised:

	<p>Concrete/Masonry:</p>		<p>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.</p>
	<p>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."</p>		<p>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).</p>
	<p>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.</p>		<p>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).</p>
	<p>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.</p>		<p>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).</p>
	<p>4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.</p>	<p>X</p>	<p>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.</p>
	<p>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.</p>		

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS)

Application Number: 03-120438

School Name: Lincoln Middle School

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Increment Number:

Date Submitted: 1/21/2020

Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report

1. GENERAL:		Table 1705A.6		
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	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. • Materials below footings are adequate to achieve the design bearing capacity. 	See Notes	PI	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.

2. SOIL COMPACTION AND FILL:		Table 1705A.6		
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
<input checked="" type="checkbox"/>	b. Compaction testing.	Test	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

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.

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<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.

3. DRIVEN DEEP FOUNDATIONS (PILES):		Table 1705A.7		
Test or Special Inspection		Type	Performed By	Code References and Notes
<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.		
<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.

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	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
<input type="checkbox"/>	b. Verify pier locations, diameters, plumbness and lengths. Record concrete or grout volumes.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
<input type="checkbox"/>	c. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

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5. RETAINING WALLS:				
<input type="checkbox"/>	a. 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 type="checkbox"/>	b. Placement of soil reinforcement, drainage devices and/or backfill.	Continuous	GE*	Placement, compaction and inspection of backfill per Section 1705A.6.1 for fills supporting foundations (Section 2 above). * By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/>	c. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
<input type="checkbox"/>	d. Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

6. OTHER SOILS:				
<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"/>				

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete)

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

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7. CAST-IN-PLACE CONCRETE				
Material Verification and Testing:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<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):				
	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.

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete)

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

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<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
<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

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

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				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"/>				

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum)

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: <ul style="list-style-type: none"> • 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 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 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.
<input 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:				

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum)

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. 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 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.

19.1 SHOP 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 (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 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.

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum)

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"/>	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 checked="" 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.
<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 checked="" 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.

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum)

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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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.
<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"/>				

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

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum)

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"/>	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.
<input type="checkbox"/>	c. Test density.	Test	LOR	1705A.14.5.

23. ANCHOR BOLTS AND ANCHOR RODS:				
<input 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 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.

23.1 OTHER STEEL:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>				

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (WOOD)

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24. PREFABRICATED WOOD STRUCTURAL ELEMENTS: Section 1705A.5				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Inspect fabrication of structural glued-laminated timber.*	Continuous	SI	* See 1705A.5.4 for exceptions
<input type="checkbox"/>	b. Inspect fabrication of manufactured open-web trusses.	Continuous	SI	1705A.5.5; DSA IR 23-8.
<input type="checkbox"/>	c. Inspect fabrication of manufactured metal-plate-connected trusses.	Continuous	SI	1705A.5, 1705A.5.2; DSA IR 23-4.

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

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Other)

Application Number: 03-120438

School Name: Lincoln Middle School

School District: Santa Monica - Malibu
Unified School District

DSA File Number:

Increment Number:

Date Submitted: 1/21/2020

27. OTHER:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Load test for identified product(s):	Test	LOR	1709A.2, 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation.
<input type="checkbox"/>	b. Installation torque for non-HS bolts	Continuous	SI*	Applicable to communication towers identified as Essential Service Facility Projects (ESFP). Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications.*EXCEPTION: Non-ESFP may use PI without need for notification to DSA.
<input type="checkbox"/>	c.			

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (KEY TO COLUMN)

Application Number: 03-120438

School Name: Lincoln Middle School

School District: Santa Monica - Malibu
Unified School District

DSA File Number:

Increment Number:

Date Submitted: 1/21/2020

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>

Name of Architect or Engineer in general responsible charge:

Richard Ingrassia

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

Derrick Masulis

Signature of Architect or Structural Engineer:



Date:

1/16/20

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

Application Number: 03-120438

School Name: Lincoln Middle School

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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 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.

	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 checked="" 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.
<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. 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.

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

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	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 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 checked="" 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 checked="" 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).
<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 checked="" 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) ≤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: LIST OF REQUIRED VERIFIED REPORTS

Application Number: 03-120438

School Name: Lincoln Middle School

School District: Santa Monica - Malibu
Unified School District

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Date Submitted: 1/21/2020

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

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

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

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

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

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS

Application Number: 00-000000

School Name: Edison Language
Academy

School District: Santa Monica Malibu
Unified School District

DSA File Number:

Increment Number:

Date Submitted: 3/30/2020

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:** 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
Continuous – Indicates that a continuous special inspection is required	GE – Indicates that the special inspection is to be performed by a registered Geotechnical Engineer (GE) or his or her authorized representative
Periodic – Indicates that a periodic special inspection is required	LOR – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program Laboratory of Record (LOR). See Section 4-335, 2013 CCR Title 24, Part 1
Test – Indicates that a test is required	SI – Indicates that the special inspection is to be performed by a Special Inspector (SI)

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS)

Application Number: 00-000000

School Name: Edison Language
Academy

School District: Santa Monica Malibu
Unified School District

DSA File Number:

Increment Number:

Date Submitted: 3/30/2020

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

1. GENERAL:		Table 1705A.6		
<input checked="" type="checkbox"/>	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. • 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		
<input type="checkbox"/>	a. Perform classification and testing of fill materials.	Test	LOR*	* Under the supervision of the geotechnical engineer.
<input type="checkbox"/>	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.)
<input 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.)
3. DRIVEN DEEP FOUNDATIONS (PILES):		Table 1705A.7		
<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.

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS)

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<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.		
<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.

	4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):	Table 1705A.8		
<input checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/>	d. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

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5. RETAINING WALLS:				
<input type="checkbox"/>	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 (Section 2 above). * By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/>	b. Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. See IR 16-3.
<input type="checkbox"/>	c. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
<input type="checkbox"/>	d. Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

6. OTHER SOILS:				
<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: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete)

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7. CAST-IN-PLACE CONCRETE		Table 1705A.3, ACI 318-14 Sections 26.12 & 26.13		
Material Verification and Testing:				
<input checked="" type="checkbox"/>	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1 (1909.2.3+)
<input checked="" type="checkbox"/>	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.)
<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.1.16 (1909.3.7+); ACI 318-14 Section 26.12.
Inspection:				
<input checked="" type="checkbox"/>	e. Batch plant inspection: Continuous	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):				
<input type="checkbox"/>	a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1910A.3 (1909.2.5+)
<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

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9. PRECAST CONCRETE (in addition to Cast-in-Place Concrete tests and inspections):				
<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):				
<input type="checkbox"/>	a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	1705A.19, Table 1705A.3 Item 7. See ACI 506.2-13 Section 3.4.
<input type="checkbox"/>	b. Sample and test shotcrete (f'_c).	Test	LOR	1908A.5, 1908A.10 (1909.4 ⁺)
11. POST-INSTALLED ANCHORS:				
<input type="checkbox"/>	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.
<input type="checkbox"/>	b. Test post-installed anchors.	Test	LOR	1910A.5 (1909.2.7 ⁺). (See Appendix for exemptions.)
12. OTHER CONCRETE:				
<input type="checkbox"/>				

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Masonry)

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School District: Santa Monica Malibu
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13. STRUCTURAL MASONRY: 2500 psi 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				
Material Verification and testing: (See Appendix for exemptions.)				
<input type="checkbox"/>	a. Mill certificate indicates compliance with requirements for reinforcement, anchors, ties, fasteners and metal accessories. See Cast-in-Place Concrete item b above for identification, sampling and testing of reinforcing steel.	Periodic	SI*	2103A.4 (2103.4 ⁺), TMS 602-13 Article 1.5B.2 & 2.4. * To be performed by qualified LOR representative. Applicable testing by LOR. See IR 17-10.16 for unidentified reinforcing steel.
<input type="checkbox"/>	b. Producer's certificate of compliance for masonry units, mortar and grout materials.	Test	LOR	1705A.4
<input type="checkbox"/>	c. Test masonry (f'_m).	Test	LOR	1705A.4. For Unit Strength: 2105A.3 (2114.6.1 ⁺), TMS 602-13 Article 1.4B.2, 1.5B.1 & 1.5B.2. For Prism (required when $f'_m > 2000$ psi): 2105A.2 , TMS 602-13 Article 1.4B.3, 1.4B.4, 1.5B.1 & 1.5B.2.
<input type="checkbox"/>	d. Verify proportions of site-prepared, premixed or preblended mortar and grout.	Periodic	SI	TMS 402-13 Table 3.1.3 Item 2a, TMS 602-13 Table 5 Item 2a.
<input type="checkbox"/>	e. Test core-drilled samples.	Test	LOR	2105A.4 (2114.6.2 ⁺). (See Appendix for exemptions.)
Inspection: (See Appendix for exemptions.)				
<input type="checkbox"/>	f. Inspect preparation of prisms.	Continuous	SI	TMS 402-13 Table 3.1.3 Item 3, TMS 602-13 Article 1.4.B.3 & 1.4.B.4 & Table 5 Item 3.
<input type="checkbox"/>	g. Verify size, location and condition of all dowels, construction supporting masonry, etc.	Periodic	SI	
<input type="checkbox"/>	h. Verify size, grade and type of reinforcement and anchor bolts.	Periodic	SI	TMS 402-13 Table 3.1.3 Item 2b, TMS 602-13 Table 5 Item 2b.
<input type="checkbox"/>	i. Welding of reinforcing steel.	TMS 402-13 Table 3.1.3 Item 2i, TMS 602-13 Table 5 Item 2i. Provide special inspection per STEEL, category 19.1(d) & (e) and/or 19.2(g) & (h) below.		
<input type="checkbox"/>	j. Inspect placement of reinforcement and connectors.	Continuous	SI	TMS 402-13 Table 3.1.3 Item 2d, TMS 602-13 Table 5 Item 2d.

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<input type="checkbox"/>	k. Inspect placement of masonry units and construction of mortar joints.	Periodic	SI	TMS 402-13 Table 3.1.3 Item 2c, TMS 602-13 Table 5 Item 2c.
<input type="checkbox"/>	l. Verify preparation, construction and protection of masonry during cold weather (temperature below 40° F) or hot weather (temperature above 90° F).	Periodic	SI*	TMS 402-13 Table 3.1.3 Item 2j; TMS 602-13 Table 5 Item 2j. * May be performed by the project inspector when specifically approved by DSA.
<input type="checkbox"/>	m. Inspect type, size and location of anchors and all other items to be embedded in masonry including other details of anchorage of masonry to structural members, frames and other construction.	Continuous	SI	TMS 402-13 Table 3.1.3 Item 2h, TMS 602-13 Table 5 Item 2h.
<input type="checkbox"/>	n. Inspect grout space prior to placement of grout.	Continuous	SI	TMS 402-13 Table 3.1.3 Item 2e & 2f, TMS 602-13 Table 5 Item 2e & 2f.

14. VENEER OR GLASS BLOCK PARTITIONS: 1705A.4.1, TMS 402-13 Table 3.1.2, TMS 602-13 Table 4				
<input type="checkbox"/>	a. Verify proportions of site-prepared mortar and grout and/or verify certification of premixed mortar.	Periodic	SI	TMS 402-13 Table 3.1.2 Item 2a & 3d, TMS 602-13 Table 4 Item 2a & 3d.
<input type="checkbox"/>	b. Inspect placement of units and construction of mortar joints.	Periodic	SI	TMS 402-13 Table 3.1.2 Item 2b & 3e, TMS 602-13 Table 4 Item 2b & 3e.
<input type="checkbox"/>	c. Inspect placement of reinforcement, connectors and anchors.	Periodic	SI	TMS 402-13 Table 3.1.2 Item 3c, TMS 602-13 Table 4 Item 3c.
<input type="checkbox"/>	d. Inspect type, size and location of anchors and all other items to be embedded in masonry including details of anchorage of masonry to	Periodic	SI	TMS 402-13 Table 3.1.2 Item 2d, 3b & 4b, TMS 602-13 Table 4 Item 2d, 3b & 4b.

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	structural members, frames and other construction.			
<input type="checkbox"/>	e. Verify preparation, construction and protection of masonry during cold weather (temperature below 40° F) or hot weather (above 90° F).	Periodic	SI*	TMS 402-13 Table 3.1.2 Item 4d; TMS 602-13 Table 4 Item 4d. * May be performed by the project inspector when specifically approved by DSA.
<input type="checkbox"/>	f. Test veneer bond strength	Test	LOR	1411.2.1. (Field constructed mock-up laboratory tested in accordance with ASTM C482).
15. POST-INSTALLED ANCHORS IN MASONRY:				
<input checked="" type="checkbox"/>	a. Inspect installation of post-installed anchors	See Notes	SI*	1705A.4, 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. (See Appendix for exemptions.)
<input checked="" type="checkbox"/>	b. Test post-installed anchors.	Test	LOR	1705A.4, 1910A.5 (1909.2.7+). (See Appendix for exemptions.)
16. OTHER MASONRY:				
<input type="checkbox"/>				

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum)

Application Number: 00-000000

School Name: Edison Language
Academy

School District: Santa Monica Malibu
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17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES Table 1705A.2.1, AISC 303-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10				
Material Verification:				
<input checked="" type="checkbox"/>	a. Verify identification of all materials and: Mill certificates indicate material properties that comply with requirements, 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.
<input checked="" type="checkbox"/>	b. Test unidentified materials	Test	LOR	2203A.1 (2203.1+).
<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 2009				
Material Verification of High-Strength Bolts, Nuts and Washers:				
<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 Item 1, 2203A.1 ; RCSC 2009 Section 2.1. DSA IR 17-9
<input checked="" type="checkbox"/>	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:				
<input checked="" type="checkbox"/>	c. Bearing-type ("snug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a ; RCSC 2009 Section 9.1. DSA IR 17-9
<input checked="" type="checkbox"/>	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 .

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum)

Application Number: 00-000000

School Name: Edison Language
Academy

School District: Santa Monica Malibu
Unified School District

DSA File Number:

Increment Number:

Date Submitted: 3/30/2020

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:				
<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.
19.1 SHOP WELDING:				
<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 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 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 Item 5a.5 & 5a.6. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
<input type="checkbox"/>	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1. Per AISC 360-10 (and AISC 341-10 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; verify carbon equivalent reported on mill certificates. AWS D1.4. DSA IR 17-3.
<input type="checkbox"/>	e. Inspect welding of reinforcing steel.	Continuous	SI	1705A.3.1, Table 1705A.3 Item 2 and Table 1705A.2.1 Item 5b, 1903A.8. AWS D1.4. DSA IR 17-3.
19.2 FIELD WELDING:				
<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 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 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. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum)

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<input type="checkbox"/>	c. Inspect end-welded studs (ASTM A-108) installation (including bend test)	Periodic	SI	2213A.2 (2212.6.2+); per AISC 360-10 (and AISC 341-10 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; per AISC 360 (and AISC 341 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. * May be performed by the project inspector when specifically approved by DSA. DSA IR 17-3.
<input type="checkbox"/>	f. Inspect welding of stairs and railing systems	Periodic	SI*	1705A.2.1; Per AISC 360-10 (and AISC 341-10 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; verify carbon equivalent reported on mill certificates. DSA IR 17-3.
<input type="checkbox"/>	h. Inspect welding of reinforcing steel.	Continuous	SI	1705A.3.1, Table 1705A.3 Item 2 and Table 1705A.2.1 Item 5b, 1903A.8. AWS D1.4. DSA IR 17-3.

20. NONDESTRUCTIVE TESTING:

<input checked="" type="checkbox"/>	a. Ultrasonic	Test	LOR	1705A.2.1 & 1705A.2.5. AISC 360-10 N5.5, AISC 341-10 J6.2. AWS D1.1 and D1.8. ANSI/ASNT CP-189, SNT-TC-1A. DSA IR 17-2.
<input checked="" type="checkbox"/>	b. Magnetic Particle	Test	LOR	1705A.2.1 & 1705A.2.5. AISC 360-10 N5.5, AISC 341-10 J6.2. AWS D1.1 and D1.8. ANSI/ASNT CP-189, SNT-TC-1A. DSA IR 17-2.
<input type="checkbox"/>	c. x	Test	LOR	

21. STEEL JOISTS AND TRUSSES:

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum)

Application Number: 00-000000

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<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 and DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses.
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22. SPRAY APPLIED FIRE-PROOFING:				
<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
<input type="checkbox"/>	c. Test density.	Test	LOR	1705A.14.5

23. ANCHOR BOLTS AND ANCHOR RODS:				
<input checked="" type="checkbox"/>	a. Anchor Bolts and Anchor Rods	Test	LOR	IR 17-11 Sample and test anchor bolts and anchor rods not readily identifiable.
<input type="checkbox"/>	b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in IR 17-11

OTHER STEEL:				
<input type="checkbox"/>	c.			

DSA 103: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Other)

Application Number: 00-000000

School Name: Edison Language
Academy

School District: Santa Monica Malibu
Unified School District

DSA File Number:

Increment Number:

Date Submitted: 3/30/2020

27. OTHER:				
<input type="checkbox"/>	a. Load test for identified product(s):	Test	LOR	1709A.2 and 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation.
<input type="checkbox"/>	b. Installation torque for non-HS bolts	Continuous	SI*	Applicable to communication towers identified as Essential Service Facility Projects (ESFP). Calibrated wrench use required, verified by SI during installation. *EXCEPTION: Non-ESFP may use PI without need for notification to DSA.
<input checked="" type="checkbox"/>	c. x28. Inspection of Solar Panel Attachments	xContinuous	xPI	xPI shall be approved by DSA to perform the inspection in accordance with 4-333(b)8, Part 1 CAC

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

Application Number: 00-000000

School Name: Edison Language
Academy

School District: Santa Monica Malibu
Unified School District

DSA File Number:

Increment Number:

Date Submitted: 3/30/2020

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.

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 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."
<input 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.
<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 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.

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

Application Number: 00-000000

School Name: Edison Language
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Increment Number:

Date Submitted: 3/30/2020

<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.
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	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 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 cannot 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) 19, 19.1 and/or 19.2 located in the Steel/Aluminum category).
<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 section 19, 19.1 and/or 19.2 located in the Steel/Aluminum category).
<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 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: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SIGNATURE)

Application Number: 00-000000

School Name: Edison Language
Academy

School District: Santa Monica Malibu
Unified School District

DSA File Number:

Increment Number:

Date Submitted: 3/30/2020

Name of Architect or Engineer in general responsible charge:	
Name of Structural Engineer (When structural design has been delegated):	
Signature of Architect or Structural Engineer:	Date:

DSA STAMP

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

DSA 103: LIST OF REQUIRED VERIFIED REPORTS

Application Number: 00-000000

School Name: Edison Language
Academy

School District: Santa Monica Malibu
Unified School District

DSA File Number:

Increment Number:

Date Submitted: 3/30/2020

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
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N



DSA-103 Revised 5/8/2019

List of Required Structural Tests & Special Inspections - 2016 CBC

INCREMENT #

0

DSA File No.:

19-96

Application No.:

03-120122

Date Submitted:

9/4/2019

Revised:

Revised:

School Name	SMASH Muir Elementary School	District	Santa Monica Malibu 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.

	TEST OR SPECIAL INSPECTION	TYPE 1	PERFORMED BY 2	CODE REFERENCE AND NOTES
+	SOILS (Indicate if project has geotechnical report):			<input type="radio"/> Project has a geotechnical report, or CDs indicate soils special inspection is required by GE. <input checked="" type="radio"/> Project does NOT have and does NOT require a geotechnical report.
-	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 type="radio"/> Continuous <input checked="" 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



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List of Required Structural Tests & Special Inspections - 2016 CBC

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DSA File No.:

19-96

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9/4/2019

Revised:

Revised:

+	STEEL, ALUMINUM	Table 1705A.2.1, AISC 303-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10
+	WOOD	
+	OTHER	



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List of Required Structural Tests & Special Inspections - 2016 CBC

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Application No.:

03-120122

Date Submitted:

9/4/2019

Revised:

Revised:

List of required verified report(s):

- 1 Structural Testing and Inspection: Laboratory Verified Report - Form DSA-291
- 2 Concrete Batch Plant Inspection: Laboratory Verified Report - Form DSA-291
- 3 Post-Installed Anchors: 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

Jay Tittle

Name of Architect or Engineer in general responsible charge

Bryan Starr

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

9/4/19

Signature of Architect or Structural Engineer

date

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
APP. # 03-120122

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

DATE _____



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List of Required Structural Tests & Special Inspections - 2016 CBC

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DSA File No.:

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03-120122

Date Submitted:

9/4/2019

Revised:

Revised:

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.	<p>Soils:</p> <p>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.</p> <p>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.</p>
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Exempted by Design Prof.	<p>Welding:</p> <p>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.</p> <p>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.</p>
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List of Required Structural Tests & Special Inspections - 2016 CBC

INCREMENT #

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DSA File No.:

19-96

Application No.:

03-120122

Date Submitted:

9/4/2019

Revised:

Revised:

	Concrete/Masonry:			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.
	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."			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).
	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.			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).
	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.			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	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.		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.
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.			