



DSA-103 rev 4/27/2016

Listing of Structural Tests & Special Inspections - 2013 CBC

INCREMENT #

DSA File No.:

29-11

Application No.:

02-117268

Date Submitted: 5/7/2019

Revised:

Revised:

School Name	Margaret Scotten Elementary School	District	Grass Valley 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 and 2010 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 2013 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			
	1. GENERAL:			Table 1705A.6
X	a. Verify that: <ul style="list-style-type: none"> site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, foundation excavations are extended to proper depth and have reached proper material, and materials below footings are adequate to achieve the design bearing capacity. 	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
-	2. COMPACTED FILLS:			Table 1705A.6
	a. Perform qualification testing of fill materials.	Test	LOR*	* Under the supervision of the geotechnical engineer.
X	b. Verify use of proper materials and inspect lift thicknesses, placement, and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
X	c. Test compaction of fill.	Test	LOR*	* Under the supervision of the geotechnical engineer.
-	CONCRETE			Table 1705A.3
-	7. CAST IN PLACE CONCRETE			
	Material Verification and Testing:			
X	a. Verify use of required design mix.	Periodic	SI*	* To be performed by qualified batch-plant inspector and concrete sampling technician
X	c. Perform slump, temperature, air content tests, and sample concrete.	Test	LOR	ASTM C172, ASTM C31.
X	d. Test concrete (compression).	Test	LOR	ACI 318 Section 5.6 and 1905A.1.2 (1913.3.1 ⁺). ASTM C39.
	Inspection:			
X	f. Batch plant inspection – design complies with 1705A.3.3 item 2	Periodic	SI	1705A.3.3, Item 2. Requires first batch inspection, weighmaster, and batch tickets.



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-	11. POST-INSTALLED ANCHORS:			
X	a. Inspect installation of post-installed anchors	Periodic	SI*	Table 1705A.3 (See Appendix for exemptions.) * May be performed by the project inspector when specifically approved by DSA.
X	b. Test post-installed anchors.	Test	LOR	1913A.7 (1913.2.11*). ASTM E488. (See Appendix for exemptions.)
+	MASONRY TMS 402-11/ACI 530-11/ASCE 5-11 Table 1.19.3			
-	STEEL, ALUMINUM Table 1705A.2.1			
-	19. WELDING: 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	
X	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	
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 $\leq 5/16"$	Periodic	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
-	19.2 FIELD WELDING:			
X	b. Inspect single-pass fillet welds $\leq 5/16"$	Periodic	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
-	23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL:			
X	a. Anchor Bolts and Anchor Rods	Test	LOR	IR 17-11 Sample and test anchor bolts and anchor rods not readily identifiable.
-	WOOD			
-	25. OTHER WOOD:			
+	OTHER			

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List of required verified report(s):

- | | |
|---|---|
| 1 | Soils testing and Inspection: Geotechnical Verified Report - Form DSA-293 |
| 2 | All Structural Testing: Laboratory Verified Report - Form DSA-291 |
| 3 | Concrete Batch Plant Inspection: 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 |

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 inspection is to be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. 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

COMPILE

Name of Architect or Engineer in general responsible charge

William D. Bevier

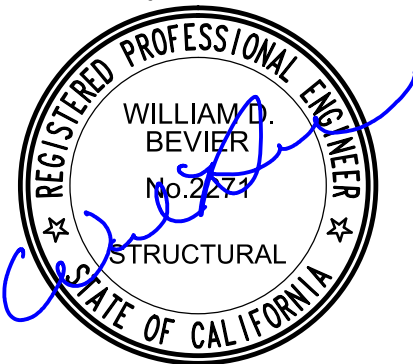
Name of Structural Engineer (When structural design has been delegated)



05-07-2019

Signature of Architect or Structural Engineer

date



IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
APP. # _____

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

DATE _____

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117268 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 05/17/2019

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Appendix: Work Exempt from DSA Requirements for Special Inspection or Structural Testing

Exempt items given in IR A-22 or the 2013 CBC (including DSA amendments) and those items identified below with an "X" by the design professional are NOT subject to DSA requirements for structural tests and special inspections. The project inspector shall verify all construction complies with the approved construction documents.

Exempted by Design Prof.	
	Soils:
X	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per 2013 CBC Table 1806A.2 and having no geotechnical report for the following types of structures: free standing sign, scrolling message sign, scoreboard, covered walkway or shade structure with dead load less than 5 psf and other light-weight structures of which the apex is less than 8' above the highest adjacent grade.
X	2. Shallow foundations meeting the exception item #1 criteria specified in 2013 CBC Section 1803A.2.
(Optional) List details for applicable exempt items:	
	Concrete/Masonry:
X	1. Post-installed anchors for the following: 1) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment) given in ASCE 7-10, Section 13.1.4 (and modified by CBC Section 1616A.1.18) or 2) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."

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



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X	2. Concrete batch plant inspection is not required for the following, provided they are identified on the approved construction documents and the licensed weighmaster and batch ticket requirements of Section 1705A.3.3 are implemented: 1) site flatwork, 2) unenclosed site structures, including but not limited to lunch or car shelters, bleachers, solar structures, flag or light poles, or retaining walls less than 4'-0" above the top of foundation not supporting a surcharge and free standing nonbearing non-shear walls up to 6'-0" above adjacent grade, 3) controlled low-strength material backfill, 4) single-story relocatable buildings less than 2,160 square feet.	X	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).
X	3. Masonry retaining walls less than 4'-0" above the top of foundation not supporting a surcharge and free standing nonbearing non-shear masonry walls up to 6'-0" above adjacent grade do not require mortar or masonry core testing or DSA special inspection. or non-bearing non-shear masonry walls not exceeding total wall height of 12' above wall base, mortar test shall be permitted to be limited to those at the beginning of masonry work for each mix design. Core sampling and testing is not required for non-bearing non-shear masonry walls, not exceeding total wall height of 12' above wall base, built with single-wythe hollow unit concrete masonry that attaches opposite face shells using webs cast as single unit, when designed using an f'm not exceeding 1,500 psi (10.34 MPa).	X	7. Any support for exempt non-structural components given in ASCE 7-10, Section 13.1.4 (and modified by CBC Section 1616A.1.18) meeting the following: 1) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) <= 4' above supporting floor/roof, 2) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.
X	4. Epoxy shear dowels in site flatwork.	(Optional) List details for applicable exempt items:	
(Optional) List details for applicable exempt items:			



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