



Statement of Structural Tests and Special Inspections

School Name	Mission College	District	West Valley - Mission Community College District
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IMPORTANT: This form is only a summary list of the tests and special inspections required on the project. The actual tests and inspections must be performed as detailed on the approved plans and specifications. 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.

INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. An "X" before a listed test or inspection indicates it is a mandatory requirement. 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 finally selected. For more information on use of this form, see DSA-103.INSTR.

Note: All references to the California Building Code (CBC) are to the 2007 edition.

REQUIRED?	TEST OR SPECIAL INSPECTION	TYPE	PERFORMED BY	CODE REFERENCE AND NOTES
-	SOILS			
	1. General:			2007 CBC, Table 1704A.7
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.	Periodic	GE*	* By geotechnical engineer or qualified representative.
-	2. Compacted Fills:			2007 CBC, Table 1704A.7
X	a. Perform qualification testing of controlled fill materials.	Test	Lab*	* Under the supervision of a geotechnical engineer
X	b. Verify use of proper materials and inspect fill thicknesses, placement, and compaction during placement of controlled fill.	Continuous	GE*	* By geotechnical engineer or qualified representative.
X	c. Test compaction of controlled fill.	Test	Lab*	* Under the supervision of the geotechnical engineer.
-	4. Pier Foundations:			2007 CBC, Table 1704A.9
X	a. Inspect drilling operations and maintain complete and accurate records for each pier	Continuous	GE*	* By geotechnical engineer or qualified representative.
X	b. Verify locations of piers.	Continuous	Project	
X	c. Confirm pier diameters, plumbness, bell diameters (if applicable), lengths, and embedment into bedrock (if applicable).	Continuous	GE*	* By geotechnical engineer or qualified representative.
X	e. Concrete piers.	Provide tests and inspections per CONCRETE section below.		
-	CONCRETE			(based on 2007 CBC, Table 1704A.4)
-	7. Cast in Place Concrete			
	Material Verification and Testing:			
X	a. Verify use of required design mix.	Periodic	*	* To be performed by batch-plant special inspector and project inspector.
X	b. Test reinforcing steel.	Test	Lab	1916A.2. (see 1916A.4 for waiver). ASTM A370-06.
X	c. Perform slump test, determine the temperature of the concrete, and (where required) perform air content test.	Test	Lab	ASTM C172-04, ASTM C31-98.
X	d. Test concrete (compression test).	Test	Lab	1905A.6. ASTM C39-05.



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Inspection:				
X	e. Inspect batching of concrete.	Continuous	Special	1704A.4.3; (see 1704A.4.4 for waiver).
X	f. Inspect placement of formwork, reinforcing steel, embedded items and concrete. Inspect curing and form removal.	Continuous	Project*	* May be performed by a special inspector when specifically approved by DSA.
X	g. Welding of reinforcing steel.	Provide special inspection per STEEL, category 18.4, below.		
-	9. Precast Concrete (in addition to Cast in Place Concrete tests and inspections):			
X	a. Inspect fabrication of precast concrete members.	Continuous	Special	
X	b. Inspect erection of precast concrete members.	Continuous	Project	
-	11. Post-installed Anchors:			
X	a. Inspect installation of post-installed anchors	Continuous	Project	Table 1704A.4
X	b. Test post-installed anchors.	Test	Lab	1916A.8
-	12. Other Concrete:			
+	MASONRY (based on 2007 CBC, Table 1704A.5.3)			
-	STEEL (based on 2007 CBC, Table 1704A.3)			
-	17. Structural Steel			
Material Verification:				
X	a. Verify that all materials are appropriately marked and that: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic		* By special inspector when performed off-site; by project inspector for steel shipped directly to project site without welding or fabrication.
X	b. Test unidentified materials	Test	Lab	2212A.1. ASTM A370-06.
X	c. Examine seam welds of structural tubes and pipes	Periodic	Special*	* See DSA IR 17-3.
Inspection:				
X	d. Verify member locations, bracing and all details constructed in the field.	Continuous	Project	
X	e. Verify stiffener locations, connection tab locations and all construction details fabricated in the shop.	Periodic	Special	
-	18. High Strength Bolts:			
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	Special	
X	b. Test high-strength bolts, nuts and washers.	Test	Lab	2212A.2. ASTM F606-02. A370-07
Inspection of High-Strength Bolt Installation:				
X	c. Bearing-type ("snug tight") connections.	Periodic	Special*	* May be performed by the project inspector when approved by DSA.
X	d. Slip-critical connections.		Special	* "Continuous" or "Periodic" depends on the tightening method used. see 1704A.3.3.
-	19. Welding: DSA IR 17-3. AWS D1.1-06.			
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	Special	
X	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	Special	
X	c. Verify WPS, welder qualifications and equipment.	Periodic	Special	See DSA IR 17-3



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-	19.1 Shop Welding:			
X	a. Inspect groove, multi-pass, and fillet welds > 5/16"	Continuous	Special	Per AISC 360 (and AISC 341 as applicable).
X	b. Inspect single-pass fillet welds ≤ 5/16"	Periodic	Special	Per AISC 360 (and AISC 341 as applicable).
X	c. Inspect welding of stairs and railing systems.	Periodic	Special	Per AISC 360 (and AISC 341 as applicable).
X	d. Verification of reinforcing steel weldability	Periodic	Special	1704A.4.2 Verifies carbon equivalent reported on mill certificates.
X	e. Inspect welding of reinforcing steel.	Continuous	Special	Table 1704A.3 Item 5b. AWS D1.4-05
-	19.2 Field Welding:			
X	a. Inspect groove, multi-pass, and fillet welds > 5/16"	Continuous	Special	Per AISC 360 (and AISC 341 as applicable).
X	b. Inspect single-pass fillet welds ≤ 5/16"	Periodic	Special	Per AISC 360 (and AISC 341 as applicable).
X	c. Inspect end-welded studs (ASTM A-108) installation (including bend test)	Periodic	Special	Per AISC 360 (and AISC 341 as applicable).
X	d. Inspect floor and roof deck welds	Periodic	Special	Per AISC 360 (and AISC 341 as applicable).
X	e. Inspect welding of cold-formed steel	Periodic	Special*	* May be performed by the project inspector when approved by DSA.
X	f. Inspect welding of stairs and railing systems	Periodic	Special*	* May be performed by the project inspector when approved by DSA.
X	g. Verification of reinforcing steel weldability	Periodic	Special	1704A.4.2 Verifies carbon equivalent reported on mill certificates.
X	h. Inspect welding of reinforcing steel.	Continuous	Special	Table 1704A.3 Item 5b. AWS D1.4-05
-	22. Shop Fabrication:			
X	a. Verify fabricator's fabrication and quality control procedures.	Periodic	Special	* 2007 CBC, Section 1704A.2.1
X	b. Verify all aspects of shop fabrication including member locations, dimensional layout of all parts and pieces, all welding, bolting, etc.	Continuous	Special	
-	23. Other Steel:			
X	Testing and Inspection for Side Plate Moment Connections			See sheets S-752 through S-756
+	WOOD			
-	OTHER			
X	Grab Bar Testing at Toilet Partitions			



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Summary of Verified Reports Required:

Note: Project inspector, contractor, architect and engineer verified reports are always required (Form DSA-6 or DSA 6A/E as applicable).

- 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: Special Inspection Verified Report - Form DSA-292
4 Precast Concrete Inspection: Special Inspection Verified Report - Form DSA-292
5 Shop Welding Inspection: Special Inspection Verified Report - Form DSA-292
6 Field Welding Inspection: Special Inspection Verified Report - Form DSA-292
7 HS Bolt Installation Inspection: Special Inspection Verified Report - Form DSA-292
8 Shop Fabrication Inspection: Special Inspection Verified Report - Form DSA-292

KEY to Columns

** Type -

Continuous - Indicates that a continuous special inspection is required

Periodic - Indicates that a periodic special inspection is required

Test - Indicates that a test is required

(Note: The difference between "tests" and "special inspections" is addressed in IR 17-B)

** Performed By -

GE - Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative

Lab - Indicates that the test is to be performed by a testing laboratory accepted in the DSA laboratory Evaluation and Acceptance (LEA) Program

Project - Indicates that the special inspection is to be performed by the project inspector

Special - Indicates that the special inspection is to be performed by a special inspector

(Note that reassignment of responsibility is permitted only with the written approval of DSA)

DAVID YOUNGER

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

9-2-11 date

IDENTIFICATION STAMP DIV OF THE STATE ARCHITECT APP. # 01-111357 AC N/A F/LS N/A SS DATE 9/2/11