



Statement of Structural Tests and Special Inspections

School Name	Chabot College	District	Chabot Las Positas 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	b. Verify use of proper materials and inspect lift 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.
-	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 A370-05.
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.
	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.
-	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
-	MASONRY	(based on 2007 CBC, Table 1704A.5.3)		



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Revised:
 Revised:

-	13. Structural Masonry: Check one: f m = 1500psi <input checked="" type="checkbox"/> 2500psi <input type="checkbox"/>			
Material Verification and testing:				
X	a. Test reinforcing steel.	Test	Lab	1916A.2. ASTM A370-06.
X	b. Test masonry units, mortar and grout (unit strength method).	Test	Lab	1708A.1.4, 2105A.2.2.1 and 2105A.5. ASTM C140-06, C1586-05 & C1019-03.
X	d. Verify proportions of site-prepared mortar and grout and/or verify certification of premixed mortar and plant batched grout.	Periodic	Special	ASTM C780-06.
X	e. Test core-drilled samples in compression and shear.	Test	Lab	2105A.4.
Inspection:				
X	g. Verify size, location and condition of all dowels, construction supporting masonry, etc.	Periodic	Special	
X	h. Verify specified size, grade, and type of reinforcement.	Periodic	Special	
X	j. Inspect placement of reinforcement, connectors, masonry units and construction of mortar joints.	Periodic	Special	
X	k. Verify protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees).	Periodic	Special	
X	l. 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	Special	
X	m. Inspect grout space prior to grouting and placement of grout.	Continuous	Special	
-	15. Post-Installed Anchors in Masonry:			
X	a. Inspect installation of post-installed anchors	Continuous	Project	Table 1704A.5.3
X	b. Test post-installed anchors.	Test	Lab	1916A.8. ASTM E488-96.
-	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.



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Revised:
Revised:

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
-	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).
-	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).
-	19.3 Non-destructive Testing:			
X	a. Non-destructive testing.	Test	Lab	AWS D1.1-06. ANSI/ASNT CP-189 & SNT-TC-1A. ASTM E543-04.
-	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	
+	WOOD			
+	OTHER			

