



# County of Santa Cruz

PLANNING DEPARTMENT  
701 OCEAN STREET, 4<sup>TH</sup> FLOOR, SANTA CRUZ, CA 95060  
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## STATEMENT OF SPECIAL INSPECTIONS California Building Code 1704.3

Prior to issuance, the registered design professional in responsible charge shall complete, sign and submit a Statement of Special Inspections to Santa Cruz County Building Section. Additional forms shall be submitted if more than one special inspection agency is to be used for this project.

Building Permit Application # \_\_\_\_\_ Project Address: \_\_\_\_\_

Registered Design Professional in Responsible Charge \_\_\_\_\_

Special Inspection Agency \_\_\_\_\_ APN: \_\_\_\_\_

Geotechnical Special Inspection Agency \_\_\_\_\_

Does this project include special inspections for seismic or wind resistance per CBC 1704.6:  yes  no

If yes: The contractor shall acknowledge the following:

I am aware of the special requirements contained in the statement of special inspection.

Contractor's Signature \_\_\_\_\_ Licence no: \_\_\_\_\_ Date : \_\_\_\_\_

If yes: A CA licensed design professional shall perform structural observations:

Engineer's name \_\_\_\_\_ License no : \_\_\_\_\_ Date: \_\_\_\_\_

### Notations Used in Table:

#### Column headers:

- C Indicates continuous inspection is required. The same inspector is on site, day to day, observing the work requiring special inspections.
- P Indicates periodic inspections are required. Inspections may be made on a periodic basis to satisfy the requirements of continuous inspection, provided these periodic scheduled inspections are performed and approved by the registered design professional in responsible charge and the building official. The notes and or contract documents should clarify.
- √ Indicates applicable special inspection item. To be identified by the registered design professional in responsible charge.
- X Is placed in the appropriate column to denote either "C" continuous or "P" periodic inspections.
- Denotes an activity that is either a one-time activity or one whose frequency is defined in some other manner.

Additional detail regarding inspections and tests are provided in the project specifications or notes on the drawings.

Verification and Inspection	C	P	√	Notes
<b>1704.2.5 - Inspect fabricator's fabrication and quality control procedures.</b>	-	-		
<b>Table 1705.2- Steel</b>				
1. Material verification of high-strength bolts, nuts, and washers.				
a. Identification markings to conform ASTM standards specified in the approved construction documents		X		
b. Manufacturer's certificate of compliance required.		X		
2. Inspection of high-strength bolting:				
a. Bearing-type connections.		X		
b. Slip-critical connections	X	X		
3. Material verification of structural steel:				
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	-	-		
b. Manufacturer's mill test reports	-	-		
4. Material verification of weld filler materials:				
a. Identification markings to conform to AWS designation listed in the WPS.	-	-		
b. Manufacturer's certificate of compliance required.	-	-		
5. Inspection of welding:				
a. Structural steel				
1) Complete and partial penetration groove welds.	X			
2) Multipass fillet welds.	X			
3) Single-pass fillet welds > 5/16".	X			
4) Single-pass fillet welds ≤ 5/16".		X		
5) Floor and roof deck welds.		X		
b. Reinforcing steel				
1) Verification of weldability of reinforcing steel other than ASTM A706.		X		
2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls, and shear reinforcement.	X			
3) Shear reinforcement.	X			
4) Other reinforcing steel		X		

Verification and Inspection	C	P	√	Notes
6. Inspection of steel frame joint details for compliance with approved construction documents: a. Details such as bracing and stiffening. b. Member locations. c. Application of joint details at each connection.		X		
7. Material verification of cold-formed steel deck:				
a. Identification markings to conform to ASTM standards specified in the approved construction documents.		X		
b. Manufacturer's certified test reports		X		
<b>Welded studs when used for structural diaphragms.</b>		X		
<b>Welding of cold-formed sheet steel framing members.</b>		X		
<b>Welding of railing systems at base connection.</b>		X		
<b>Table 1705.3 - Concrete</b>				
1. Inspection of reinforcing steel, including prestressing tendons and placement.		X		
2. Reinforcing bar welding: a. Verify weldability of reinforcing bars other than ASTM A706 b. Inspect single-pass fillet welds, max. 5/16"; and c. Inspect all other welds		X		
	X			
3. Inspect of anchors cast in concrete		X		
4. Inspection of anchors post -installed in hardened concrete <sup>1</sup> . a. Adhesive anchors installed in horizontally or upwardly inclined orientation to resist sustained tension loads. b. Mechanical anchors and adhesive anchors not defined in 4.a.	X			
		X		
5. Verifying use of required design mix.		X		
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X			

<sup>1</sup> Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 355.2 or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of work.

Verification and Inspection	C	P	√	Notes
7. Inspection of concrete and shotcrete placement for proper application techniques.	X			
8. Inspection for maintenance of specified curing temperature and techniques.		X		
9. Inspection of prestressed concrete.				
a. Application of prestressing forces; and	X			
b. Grouting of bonded prestressing tendons.	X			
10. Inspect erection of precast concrete members.		X		
11. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.		X		
12. Inspect formwork for shape, location, and dimensions of the concrete member being formed.		X		
<b>1705.4 Masonry</b>				
<b>Table 1.19.2 TMS 402-11/ACI 530-11/ASCE 5-11 - Level B Masonry Inspections. (Risk Category I, II, III structures or IV veneer)</b>				
1. Verify compliance with the approved submittals		X		
2. As masonry construction begins, verify that the following are in compliance :				
a. Proportions of site-prepared mortar		X		
b. Construction of mortar joints.		X		
c. Grade and size of prestressing tendons and anchorages..		X		
d. Location of reinforcement, connectors, and prestressing tendons and anchorages.		X		
e. Prestressing tendons		X		
f. Properties of thin-bed mortar for AAC masonry.: • First 5000 s.f. of AAC masonry • After the first 5000 s.f.	X			
X		X		
3. Prior to grouting, verify that the following are in compliance:				
a. Grout space.		X		
b. Grade, type and size of reinforcement and anchor bolts, and prestressing tendons and anchorages.		X		

Verification and Inspection	C	P	√	Notes
c. Placement of reinforcement, connectors, and prestressing grout for bonded tendons.		X		
d. Proportions of site-prepared grout and prestressing grout for bonded tendons..		X		
e. Construction of mortar joints.		X		
4. Verify during construction.				
a. Size and location of structural elements.		X		
b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.		X		
c. Welding of reinforcement	X			
d. Preparation, construction, and protection of masonry during cold weather (temp. below 40°F or hot weather (temp. above 90°F)		X		
e. Application and measurement of prestressing force.	X			
f. Placement of grout and prestressing grout for bonded tendons is in compliance.	X			
g. Placement of ACC masonry units and construction of thin-bed mortar joints. <ul style="list-style-type: none"> <li>• First 5000 s.f. of AAC masonry</li> <li>• After first 5000 s.f.</li> </ul>	X	X		
5. Observe preparation of grout specimens, mortar specimens, and/or prisms.		X		
<b>Table 1.19.3 TMS 402-11/ACI 530-11/ASCE 5-11 - Level C Masonry Inspections (Risk Category IV structures)</b>				
1. Verify compliance with the approved submittals		X		
2. Verify tha the following are in compliance:				
a. Proportions of site-mixed mortar, grout, and prestressing grout for bonded tendons.		X		
b. Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages.				
c. Placement of masonry units and construction of mortar joints.		X		

Verification and Inspection	C	P	√	Notes
d. Placement of reinforcement, connectors and prestressing tendons and anchorages.	X			
e. Grout space prior to grouting.	X			
f. Placement of grout and prestressing grout for bonded tendons.	X			
g. Size and location of structural elements.		X		
h. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames and other construction.	X			
i. Welding of reinforcement.	X			
j. Protection of masonry during cold weather (temp. below 40° F) or hot weather (temp. above 90° F).		X		
k. Application and measurement of prestressing force.	X			
l. Placement of AAC masonry units and construction of thin-bed mortar joints.	X			
m. Properties of thin-bed mortar for AAC masonry	X			
2. Observe preparation of grout specimens, mortar specimens, and/or prisms.	X			
<b>1705.5 - Wood</b> - Inspect prefabricated wood structural elements and assemblies in accordance with Section 1704.2.5	-	-		
	-	-		
<b>1705.5.1 – Inspect high-load diaphragms:</b>				
1. Verify grade and thickness of sheathing.	-	-		
2. Verify nominal size of framing members at adjoining panel edges.	-	-		
3. Verify: <ul style="list-style-type: none"> <li>• Nail or staple diameter and length,</li> <li>• Number of fastener lines,</li> <li>• Spacing between fasteners in each line and at edge margins.</li> </ul>	-	-		
<b>1705.5.2 Metal-plate-connected wood trusses spanning 60 feet or greater</b>				
1. Verify temporary and permanent installation of restraint/bracing	-	-		
<b>Table 1705.6- Inspection of Soils</b>				
1. Verify materials below shallow footings are adequate to achieve the designed bearing capacity.		X		

Verification and Inspection	C	P	√	Notes
2. Verify excavations are extended to proper depth and have reached proper material.		X		
3. Perform classification and testing of compacted fill materials.		X		
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X			
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.		X		
<b>Table 1705.7 – Driven Deep Foundation Elements</b>				
1. Verify element materials, sizes and lengths comply with the requirements.	X			
2. Determine capacities of test elements and conduct additional load tests, as required.	X			
3. Inspect driving operations and maintain complete and accurate records for each element.	X			
4. Verify placement locations and 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 document any damage to foundation element.	X			
5. For steel elements, perform additional inspections in accordance with Section 1705.2.	-	-		
6. For concrete elements, perform tests and additional special inspections in accordance with Section 1705.3	-	-		
7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge.	-	-		
<b>Table 1705.8– Cast-In-Place Deep Foundation Elements</b>				
1. Inspect drilling operations and maintain complete and accurate records for each element.	X			
2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable), and adequate end-bearing strata capacity. Record concrete or grout volumes	X			

Verification and Inspection	C	P	√	Notes
3. For concrete elements, perform tests and additional special inspections in accordance with Section 1705.3.	-	-		
<b>1705.9 - Helical Pile Foundations</b>				
1. Installation	X			
Record the following information <ul style="list-style-type: none"> <li>• Installation equipment used</li> <li>• Pile dimensions</li> <li>• Tip elevations</li> <li>• Final depth</li> <li>• Final installation torque</li> <li>• Other pertinent installation data as required by the registered design professional</li> </ul>	-	-		
<b>1705.12, 1705.13 - Seismic Resistance Inspection and testing</b>				
Structural steel <ul style="list-style-type: none"> <li>a. Seismic force-resisting system</li> <li>b. Structural steel elements</li> </ul>	X	X		
Structural wood (testing not included) <ul style="list-style-type: none"> <li>a. field glued elements</li> <li>b. nailing, bolting, anchoring and other fasteners for shear resisting elements for fastener spacing in sheathing 4" or less o.c.</li> </ul>	X	X		
Cold formed steel (testing not included) <ul style="list-style-type: none"> <li>a. welding elements</li> <li>b. screws, bolting, anchoring and other fasteners for shear resisting elements for fastener spacing in sheathing 4" or less o.c.</li> </ul>	X	X		
Designated seismic systems <ul style="list-style-type: none"> <li>a. Mechanical</li> <li>b. Electrical</li> <li>c. Components with hazardous substances</li> </ul>	-	-		
Architectural components <ul style="list-style-type: none"> <li>a. exterior cladding, non-bearing walls, and veneer more than 30' above grade</li> <li>b. cladding and veneer weighing more than 5 lbs.</li> <li>c. Non-bearing walls weighting more than 15 lbs.</li> </ul>		X		



Verification and Inspection	C	P	√	Notes
Plumbing, Mechanical, Electrical a. Electrical equipment anchorage for emergency and standby power systems. b. Anchorage of electrical equipment in SDC E or F structures c. Anchorage of piping carrying hazardous materials and associated mechanical units. d. Anchorage of ductwork carrying hazardous materials. e. Anchorage of vibration isolation systems with ¼" or less clearance between equipment and restraint		X		
Storage Rack anchorage for racks 8' or more in height (testing not included)		X		
Seismic isolation systems		X		
Cold-formed steel special bolted moment frames		X		
<b>1705.14 – Spray fire-resistant materials</b>				
1. Inspect structural surface.	-	-		
2. Verify minimum ambient temperature before and after application.	-	-		
3. Verify ventilation of area during and after application.	-	-		
4. Measure average thickness per ASTM E 605 and Section 1705.14.4.	-	-		
5. Verify density of material for conformance with the approved fire-resistant design and ASTM E 605.	-	-		
6. Test cohesive/adhesive bond strength per Section 1705.14.6.	-	-		
<b>1705.15 - Mastic and Intumescent Fire-Resistant Coating</b>	-	-		
<b>1705.16 - Exterior Insulation and Finish Systems (EIFS)</b>	-	-		
<b>1705.17 – Fire-resistant penetrations and joints.</b>				
<b>1705.18 - Smoke Control System</b>	-	-		