



**STATEMENT OF SPECIAL INSPECTIONS**

City of Cotati Building Department

201 W. Sierra Avenue

Cotati, CA 94931

OFFICE USE ONLY

Project Address: \_\_\_\_\_ APN: \_\_\_\_\_

Work Description: \_\_\_\_\_

This **Statement of Special Inspections** is submitted in fulfillment of the requirement of California Building Code Sections 1704 and 1705. Included are:

- Schedule of special inspections and tests applicable to this project:  
Special inspection permit Sections 1704 and 1705.  
Special inspections for seismic resistance
- List of the testing agencies and other special inspectors that will be retained to conduct tests and inspections.
- Structural observation: In addition to special inspection requirements, the engineer or architect shall provide structural observation when required by Section 1704.5 of the California Building Code or the Chief Building Official. The scope and frequency for structural observation shall be clearly noted on the plans.  
Structural observation for seismic resistance per Section 1704.5.  
Structural observation required by the Building Official.

The **Schedule of Special Inspections** summarizes the special inspections and tests required. Special Inspectors will refer to the approved plans and specifications for detailed special inspection requirements. Any additional tests and inspections required by the approved plans and specifications will also be performed.

Interim reports will be submitted to the Chief Building Official and the Registered Design Professional in Responsible Charge in accordance with the California Building Code Section 1704.2.4.

A **Final Report of Special Inspections** documenting required special inspections, testing, and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of Certificate of Occupancy or final (Section 1704.2.4). The final report will document:

- Required special inspections.
- Correction of discrepancies noted in inspections.

The **Owner** recognizes their obligation to ensure that the construction complies with the approved permit documents and to implement this program of special inspections. In partial fulfillment of these obligations, the Owner or Registered Design Professional in Responsible Charge acting as the owner's agent shall employ one or more approved agencies to perform special inspections as required by California Building Code Section 1704.2.

**Prepared by:**

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Registered Design Profession in Responsible Charge SIGNATURE	PRINT NAME	DATE
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**Owner's Authorization:**

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PROPERTY OWNER SIGNATURE	PRINT NAME	DATE
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**Building Department Acceptance:**

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BUILDING DEPARTMENT SIGNATURE	PRINT NAME	DATE
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**CONTRACTORS' RESPONSIBILITIES (Section 1704.4): Each contractor responsible for the construction of a main wind-or-seismic-force-resisting system, designated seismic system or a wind-or-seismic-resisting component listed in the statement of special inspections acknowledges:**

1. Awareness of the special requirements contained in the statement of special inspections;
2. Control will be exercised to obtain conformance with the construction documents approved by the Chief Building Official;
3. Procedures for exercising control within the contractors' organization, the method and frequency of reporting and the distribution of the reports.

**Contractor or Owner-Builder\* Acknowledgment of Responsibilities:**

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CONTRACTOR SIGNATURE	PRINT NAME	DATE	LICENSE NUMBER
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OWNER-BUILDER* SIGNATURE	PRINT NAME	DATE	
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**\*Owner-Builder Property Package Form required**

**Seismic Requirements (Section 1704.3.2)**

Description of seismic-force-resisting system and designated seismic systems subject to special inspections as per Section 1705.11 or 1705.12:

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The extent of seismic-force-resisting systems is defined in more detail in the construction documents.

**TESTING AGENCIES AND SPECIAL INSPECTORS:** The following are the testing agencies and special inspectors that will be retained to conduct test and inspections on this project.

Responsibility	Firm	Address, phone, email
Geotechnical Inspections		
Special Inspections		
Material Testing		
Structural Observation		
Other		

## SCHEDULE OF SPECIAL INSPECTION

Notation used in table:

Column headers:

**C** Indicates **continuous** inspection is required.

**P** Indicates **periodic** inspections are required. The notes and/or contract documents should clarify.

**If Req'd** If checked this inspection or special testing is required.

Box entries:

**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	If Req'd	Notes
1704.2.5.1 - Inspect fabricator's fabrication and quality control procedures.				
1704.2.5.2 - Certificate of Compliance from Approved Manufacturer.				
<b>Table 1705.2 - Structural Steel (AISC 360 and AISC 341)</b>				
1. Fabricator and erector documents (Verify reports and certificates listed in AISC, chapter N, paragraph N, paragraph 3.2 for compliance with construction documents.)				
2. Material verification of structural steel.		X		
3. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents.		X		
4. Structural steel welding:				
a. Inspection tasks PRIOR to welding (observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1.)		- - -		
b. Inspection tasks DURING welding (observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-2.)		- - -		
c. Inspection tasks AFTER welding (observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3.)		- - -		
d. Nondestructive testing (NDT) of welded joints:				EXCEPTION: NDT of welds completed in an approved fabricator's shop. See AISC 360, N7
1) Complete penetration groove welds 5/16" or greater in risk category III or IV.		- - -		UT on 100%, may reduce to 25% per AISC 360, N5e
2) Complete penetration groove welds 5/16" or greater in risk category II.				UT on 10%, may increase to 100% per AISC 360, N5f

Verification and Inspection	C	P	If Req'd	Notes
3) Thermally cut surfaces of access holes when material $t > 2$ .		---		
4) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1.		---		
5) Fabricator's NDT reports when fabricator performs NDT.		---		AISC 360, N5d
5. Structural steel bolting:				
a. Inspection task Prior to Bolting (Observe or Perform task for each bolted connection in Accordance with QA tasks listed in AISC 360, Table N5.6-1.)		---		
b. Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2.)		---		
c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3.)		---		
6. Inspection of steel elements of composite construction prior to concrete placement in accordance with QA tasks listed in AISC 360, Table		---		

**Table 1705.2.2 - Verification of Steel Construction Other Than Structural Steel**

1. Material verification of cold-formed steel deck:				
a. Identification markings to conform to ASTM standards specified in the approved construction documents.		X		Applicable ASTM material standards.
b. Manufacturer's certified test reports.		X		
2. Inspection of welding:				
a. Cold-formed steel deck:				
1) Floor and roof deck welds.		X		AWS D1.3
b. Reinforcing steel:				
1) Verification of weldability of reinforcing steel other than ASTM A 706.		X		AWS D1.4, ACI 318: Section 3.5.2
2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	X			AWS D1.4, ACI 318: Section 3.5.2
3) Shear reinforcement.	X			AWS D1.4, ACI 318: Section 3.5.2
4) Other reinforcing steel.		X		AWS D1.4, ACI 318: Section 3.5.2

Verification and Inspection	C	P	If Req'd	Notes
<b>Table 1705.3 - Concrete</b>				
1. Inspection of reinforcing steel, including prestressing tendons and placement.		X		ACI 318: .5
2. Inspection of reinforcing steel welding in accordance with Table 1705.2.2 Item 2b.				AWS D1.4, ACI 318: Section 3.5.2
3. Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used.		X		ACI 318: 8.1.3, 21.1.8; CBC 1909.1
4. Inspection of anchors post-installed in hardened concrete members		X		ACI 318: 3.8.6, 8.1.3, 21.1.8; CBC 1909.1
5. Verifying use of required design mix.		X		ACI 318: Ch. 4.5.2-5.4; CBC 1904.2, 1910.2, 1910.3
6. At time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete.	X			ASTM C 172; ASTM C 31; ACI 318: 5.6; CBC 1910.10
7. Inspection of concrete and shotcrete placement for proper application techniques.	X			ACI 318: 5.9, 5.10; CBC 1910.6, 1910.7, 1910.8
8. Inspection for maintenance of specified curing temperature and techniques.		X		ACI 318: 5.11-5.13; CBC 1910.9
9. Inspection of prestressed concrete:				
a. Application of prestressing forces.	X			ACI 318: 18.20
b. Grouting of bonded prestressing tendons in the seismic force-resisting system.	X			ACI 318: 18.18
10. Erection of precast concrete members.		X		ACI 318: Ch. 16
11. Verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete prior to removal of shores and forms from beams and structural slabs.		X		ACI 318: 6.2
12. Inspect formwork for shape, location, and dimensions of the concrete member being formed.		X		ACI 318: 6.1
<b>Table 1705.4 - Level B Masonry Inspections (TMS 402/ACI530ASCE 5 and TMS 602/ACI 530.1/ASCE 6)</b>				
1. Verify compliance with the approved submittals.		X		TMS 602; Art.1.5
2. Verification of $f'$ and $f'$ AAC prior to construction except where specifically exempted by the code.		X		TMS 602; Art 1.4B
3. Verification of slump flow and VSI as delivered to the site for self-consolidating grout.	X			TMS 602; Art.1.5B.1.b.3
4. As masonry construction begins, the following shall be verified to ensure compliance:				
a. Proportions of site-prepared mortar.		X		TMS 602; Art.2.6A
b. Construction of mortar joints.		X		TMS 602; Art.3.3B
c. Location of reinforcement, connectors, prestressing tendons, and anchorages.		X		TMS 602; Art.3.4, 3.6A
d. Prestressing technique.		X		TMS 602; Art.3.6B

Verification and Inspection	C	P	If Req'd	Notes
e. Grade and size of prestressing tendons and anchorages.		X		TMS 602; Art.2.4B, 2.4H
5. During construction verify:				
a. Compliance with required inspection provisions of the construction documents and the approved submittals.		---		
b. Size and location of structural elements.		X		TMS 602; Art.3.3F
c. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, etc.		X		TMS 402;1.16.4.3, 1.17.1
d. Welding of reinforcing bars.	X			TMS 402; Sec. 2.1.7.7.2, 3.3.3.4(c); 8.3.3.4(b)
e. Protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperatures about 920 degrees F).		X		CBC 2104.3, 2104.4; TMS 602; Art. 1.8C, 1.8D
f. Application and measurement of prestressing force.		X		TMS 602; Art. 3.6B
6. Prior to grouting verify the following:				
a. Grout space is clean.		X		TMS 602; Art. 3.2B
b. Specified size, grade, and type of reinforcement.		X		TMS 602; Art.2.4, 3.4
c. Placement of reinforcement and connectors and prestressing tendons and anchorages.		X		TMS 402; Sec. 1.16; TMS 602; Art. 3.4
d. Proportions of site-prepared grout and prestressing grout for bonded tendons.		X		TMS 602; Art. 2.6B
e. Construction of mortar joints.		X		TMS 602; Art. 3.3B
7. Verify grout placement to ensure compliance with code and construction document provision's.	X			TMS 602; Art. 3.5
a. Observe grouting of prestressing bonded tendons.	X			TMS 602; Art. 3.6C
8. Observe preparation of required grout specimens, mortar specimens, and/or prisms.	X			CBC 2105.2.2, 2105.3; TMS 602; Art. 1.4
9. Additional levels of masonry inspection are required as otherwise noted on the plans.		---		

**Table 1705.5 - Required Verification and Inspection for Wood Construction**

1. Inspect prefabricated wood structural elements and assemblies in accordance with Section 1704.205.		---		
2. Inspect site built assemblies.				
a. Inspect high-load diaphragms:		---		CBC 1705.5.1
1) Verify grade and thickness of structural panel sheathing.				

Verification and Inspection	C	P	If Req'd	Notes
2) Verify the nominal sizing of framing members at adjoining panel edges. Verify nail or staple diameter and length, number of fastener lines, and spacing between fasteners in each line and at edge margins.				
b. Metal-plate-connected wood trusses spanning 60 feet or greater:		---		CBC 1705.5.2
1) Verify that the temporary installation restraint bracing and the permanent individual truss members restraint bracing are installed in accordance with the approved truss submittal package.				

**Table 1705.6 - Required Verification and Inspection of Soils**

1. Verify materials below shallow foundations are adequate to achieve the desired bearing capacity.		X		
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, observe subgrade and verify that site has been prepared properly.		X		

**Table 1705.7 - Required Verification for Driven Deep Foundation Elements**

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. Observe 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 CBC Section 1705.2.		---		
6. For concrete elements and concrete-filled elements, perform additional inspections in accordance with CBC Section 1705.3.		---		
7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge.	X			

Verification and Inspection	C	P	If Req'd	Notes
<b>Table 1705.8 - Required Verification for Cast-In-Place Deep Foundation Elements</b>				
1. Observe drilling operations and maintain complete and accurate records for each element.	X			
2. Verify location of piers and their 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			
3. For concrete elements, perform additional inspections in accordance with CBC Section 1705.3.				
<b>Table 1705.9 - Required Verification for Helical Pile Foundation</b>				
1. Record installation equipment used, pile dimensions, tip elevations, final depth, final installation torque, and other pertinent data.	X			
<b>Table 1705.11 - Required Verification for Seismic Resistance</b>				
1. Structural Steel Special Inspections for Seismic Resistance:				CBC 1705.11.1
a. Inspection of structural steel in accordance with AISC 341.		---		AISC 341
2. Structural Wood Special Inspection for Seismic Resistance:				
a. Inspection of field gluing operations of elements of the seismic-force resisting system.	X			CBC 1705.11.2
b. Inspection of nailing, bolting, anchoring and other fastening of components within the seismic-force resisting system, including wood shear walls, panels, diaphragms, collectors, and hold downs*		X		* Not required where fastener spacing of sheathing is more than 4" o.c.
3. Cold-formed Steel Light-Frame Construction Special Inspections for Seismic Resistance:				CBC 1705.11.3
a. Inspection during welding operations of elements of the seismic-force resisting system.		X		
b. Inspections for screw attachment, bolting, anchoring and other fastening of components within the seismic-force resisting system, including shear walls, diaphragms*, collectors, and hold-downs.		X		* Not required where fastener spacing of sheathing is more than 4" o.c.
4. Designated Seismic Systems Verification:				
a. Inspect and verify that the component label, anchorage or mounting conforms to the certificate of compliance in accordance with Section 1705.12.3.		X		
5. Architectural Components Special Inspections for Seismic Resistance:				CBC 1705.11.5
a. Inspection during the erection and fastening of exterior cladding and interior and exterior veneer.		X		
b. Inspection during the erection and fastening of interior and exterior nonbearing walls.		X		

Verification and Inspection	C	P	If Req'd	Notes
c. Inspection during anchorage of access floors.		X		
6. Mechanical and Electrical Components Special Inspections for Seismic Resistance:				CBC 1705.11.6
a. Inspection during anchorage of electrical equipment for emergency or standby power systems.		X		
b. Inspection during the anchorage of other electrical equipment.		X		
c. Inspection during installation and anchorage of piping systems designed to carry hazardous materials, and their associated mechanical units.		X		
d. Inspection during the installation and anchorage of HVAC ductwork that will contain hazardous materials.		X		
e. Inspection during the installation and anchorage of vibration isolation systems.		X		
7. Storage Racks Special Inspection for Seismic Resistance:				CBC 1705.11.7
a. Inspection during the anchorage of storage racks 8 feet or greater in height.		X		
8. Seismic Isolation Systems:				CBC 1705.11.8
a. Inspection during the fabrication and installation of isolator units energy dissipation devices used as part of the seismic isolation system.		X		

**Table 1705.12 - Testing and Qualification for Seismic Resistance**

1. Concrete Reinforcement Testing and Qualification for Seismic Resistance:				CBC 1705.12.1
a. Review certified mill test reports for each shipment of reinforcement used to resist earthquake-induced flexural and axial forces in reinforced concrete special moment frames, special structural walls, and coupling beams connection special structural walls.		---		
b. Verify reinforcement weldability of ASTM A615 reinforcement used to resist earthquake-induced flexural and axial forces in reinforced concrete special frames, special structural walls, and coupling beams connecting special structural walls.		---		
2. Structural Steel Testing and Qualification for Seismic Resistance:				CBC 1705.12.2
a. Test in accordance with the quality assurance requirements of AISC 341.		---		AISC 341
3. Seismic Certification of Nonstructural Components:				CBC 1705.12.3
a. Review certificate of compliance for designated seismic system components.		---		

Verification and Inspection	C	P	If Req'd	Notes
4. Seismic Isolation Systems:				CBC 1705.12.4
a. Test seismic isolation system in accordance with ASCE 7 Section 17.8.		---		ASCE 7 Section 17.8

**Table 1705.13 - Required Verification and Inspection for Sprayed Fire-Resistant Materials**

1. Verify surface condition preparation of structural members.		X		
2. Verify application of sprayed fire-resistant members.		X		
3. Verify average thickness of sprayed fire-resistant materials applied to structural members.		X		
4. Verify density of sprayed fire-resistant material complies with approved fire-resistant material.		---		CBC 1705.13.5
5. Verify the cohesive/adhesive bond strength of the cured sprayed fire-resistant material.		---		CBC 1705.13.6

**Table 1705.14 - Required Verification and Inspection for Mastic and Intumescent Fire-Resistant Coatings**

1. Inspect mastic and intumescent fire-resistant coatings applied to structural elements and decks.		X		
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**Table 1705.15 - Required Verification and Inspection for Exterior Insulation and Finish Systems (EIFS)**

1. Verify materials, details, and installation are per the approved construction documents.		X		
2. Inspection of water-resistive barrier over sheathing substrate.		X		

**Table 1705.16 - Required Verification and Field Testing for Fire-Resistant Penetrations and Joints**

1. Inspect penetration firestop systems.		---		ASTM E2174
2. Inspect fire-resistant joint systems.		---		ASTM E2393

**Table 1705.17 - Required Verification and Field Testing for Smoke Control Systems**

1. Leakage testing and recording of device locations prior to concealment.		X		
2. Prior to occupancy and after sufficient completion pressure difference testing, flow measurements, and detection and control.		X		

**Designer Specified Verification, Inspection or Field Testing**

Other - Designer Specified:				