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SPECIAL INSPECTION MANUAL

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The Special Inspection Manual PDF Portfolio contains the following:

1. Special Inspection Manual
2. Appendices
   - A. Application for Special Inspector (Form 65-62)
   - B. Informational Bulletin No. 278, Special Inspection Program Requirements and Statement of Special Inspection (Form 66-110)
   - C. Special Inspection Report File (Form 40-03)
   - D. Special Inspector Daily Performance Report (Form 65-77)
   - E. Special Inspector Non-Compliance Report (Form 40-04)
   - F. Special Inspector Record of Correction Report (Form 40-05)
   - G. Informational Bulletin No. 181, Concrete Placement in Foundations and Floor Slabs
   - H. Informational Bulletin No. 151, Asphalt Concrete Inspection
   - I. Excerpt from City of Irvine Grading & Right-of-Way Manual

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Pursuant to Section 110, Chapter 1 Division II California Building Code, this manual establishes supplemental regulations to clarify the application of the Special Inspection provisions of Chapter 17 of the California Building Code. It shall be the special inspector's responsibility to understand and apply the provisions herein, and to maintain a copy at the job site within the Inspection Report File.

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PART I - GENERAL REQUIREMENTS

INTRODUCTION

Under Section 1701 of the California Building Code, certain types of work are subject to special inspection. Additionally, the City of Irvine Municipal Code recognizes special inspection as an acceptable form of quality control for asphalt paving work. When special inspection is provided, its purpose is to promote quality assurance through third party monitoring of the construction process.

1.0 PURPOSE

Pursuant to Section 110, Chapter 1 Division II Scope and Administration of the California Building Code, this manual establishes supplemental regulations to clarify the application of the Special Inspection provisions of Chapter 17 of the California Building Code. Part I of this manual provides an overview of the process, and describes the duties and responsibilities of the owner and/or architect or engineer; the special inspector; and the contractor. Part II provides requirements specific to the various types of work that may be involved in a given project.

2.0 OVERVIEW

When special inspection is required for a project, the California Building Code requires a Statement of Special Inspection to be submitted to the Chief Building Official for approval prior to issuance of the building permit. Such Statement shall be prepared by the architect or engineer of record and incorporated into the construction plans in a prominent location and submitted for plan check review prior to permit issuance.

The Statement shall be documented on City of Irvine Statement of Special Inspection form, available online under the City's Forms Directory.

3.0 DEFINITIONS

3.1 **Special Inspector.** The special inspector is a person who has demonstrated competence, to the satisfaction of the Chief Building Official, for inspection of the particular type of construction or operation subject to special inspection, and has achieved and maintains national certification(s) for those types of inspections to be performed. See appendix page A1 and A2 application form.

3.2 **Continuous Special Inspection.** Special inspection by the special inspector who is present continuously when and where the work to be inspected is being performed.

3.3 **Periodic Special Inspection.** Some special inspections may be made on a periodic basis provided the periodic special inspection is performed as outlined in the approved plans and specifications and approved by the Chief Building Official, or as provided herein. Special inspection by the special inspector who is intermittently present where the work to be inspected has been or is being performed.

4.0 DUTIES AND RESPONSIBILITIES

The various duties and responsibilities described below are divided by the main project stages of plans approval, pre-construction, and construction.

4.1 **Plans Approval Stage**

4.1.1 **Architect or Engineer of Record.** During the plan check process, the architect or engineer of record is responsible for providing a Statement of Special Inspection to the Chief Building Official for review and approval. Such statement shall be documented on City of Irvine Statement of Special Inspection form as provided in City of Irvine Informational Bulletin No. 278, (see appendix page B1 and B2), and incorporated in the project plans in a prominent location.

4.1.2 **Contractor Responsibility.** The contractor shall submit a written statement of responsibility to the Building Official and the owner or owner's authorized agent prior to the commencement of work. The contractor's Statement of Responsibility shall contain acknowledgment of awareness of the special requirements contained in the Statement of Special Inspection.

4.2 **Pre-Construction**

4.2.1 **Contractor.** Unless waived by the Chief Building Official, prior to the start of construction, the contractor is responsible for coordinating a pre-construction meeting. This meeting shall be scheduled through the inspection request system a minimum of 24 hours in advance, and coordinated with the building inspector. Those present shall include the building inspector, the general contractor, the special inspector(s), and all subcontractors responsible for work subject to special inspection. During the meeting, the building inspector will review the processes to be followed, and the duties and responsibilities of all parties involved.

4.3 **Construction**

4.3.1 **Contractor.** It is the contractor's responsibility to coordinate construction activities such that the special inspector is given sufficient notification so as to be present as required by the program, and to allow 24 hours notice by the special inspector to the building inspector.

4.3.2 **Special Inspector.** The special inspector represents the owner, or architect or engineer of record in witnessing those portions of work identified in the special inspection program for conformance to the approved plans and specifications and applicable workmanship provisions of the code. The special inspector must report all activities to the City building inspector, and resolve all questions regarding special inspection requirements or methods with the building inspector. Specifically, the special inspector shall:

4.3.2.1 **Advanced Notice.** Notify the building inspector 24 hours in advance of any construction activity requiring special inspection, and to inform the building inspector if the contractor is not providing sufficient notice. Notification shall include the special inspector name and city license number, job address, permit number, and type of work being performed.

4.3.2.2 **Availability of Approved Plans and Specifications.** Ensure that the approved plans and specifications are on site and available for use during special inspections.

4.3.2.3 **Special Inspection.** Perform continuous and/or periodic special inspection of all work assigned for conformance to the approved plans, specifications and applicable workmanship provisions of the code. All special inspections shall be continuous unless specifically noted otherwise. (Note: Sufficient special inspectors must be present to monitor all ongoing work subject to special inspection. It is the responsibility of the special inspector to ensure that all

work occurring is being properly witnessed, and to bring to the immediate attention of the contractor and building inspector any problems in this regard.)

4.3.2.4 **Non-Conforming Work.** Immediately bring to the attention of the contractor for correction any discrepancies between the work being performed and the approved plans, specifications and applicable workmanship provisions of the code. All such work shall be formally reported as specified below. If it is not corrected within 3 working days, or is about to be incorporated into the work, the special inspector shall immediately notify the architect or engineer of record, and the building department by telephone, fax or in person.

4.3.2.5 **Hazardous Conditions.** The special inspector is responsible to immediately notify the building department of any structural failure, collapse or condition that, in the opinion of the special inspector, may possibly lead to structural failure.

4.3.2.6 **Special Inspection Report File.** Maintain at the job site for the building inspector, an Inspection Report File. This file shall consist of a 3 ring binder or binders, subdivided by main categories of work subject to special inspection, see Part II for typical category headings. Log sheet forms (see appendix page C) immediately following each sub-divider, shall be updated to reflect each report entry.

4.3.2.7 **Special Inspection Reports.** Throughout the project, the special inspector(s) shall generate reports as required in Part II of this manual, and as required herein. Separate reports are required from each special inspector, and for each type of work being inspected. The special inspector generating the report shall be responsible for properly numbering each report, filing a copy in the Inspection Report File and logging each entry.

4.3.2.8 **Special Inspector Daily Performance Report.** Reports shall be completed on the day of the special inspection using forms obtained from the City (see appendix page D). Each form shall be completely filled out, and in the space provided shall include:

- A clear description of the inspection process, testing, and acceptance of the structural members and/or assemblies.
- Specific information as dictated by the type of work being performed, see Part II of this manual.

NOTE: Daily report forms provided by the special inspector's company may be substituted for the City of Irvine Special Inspector Daily Performance Report form provided prior authorization is obtained from the Chief Building Official, and the information contained therein is consistent with the City's form.

4.3.2.9 **Special Inspector Non-Compliance Report.** A separate Non-Compliance Report shall be completed upon detection of any work not complying to the approved plans, specifications or quality of work provisions of the code using forms obtained from the City (see appendix page E). Each form shall be completely filled out, and in the space provided shall include a clear description of the non-complying item/condition, its location, cross referenced to specific approved plan sheet, detail and/or specification. Such work shall be brought to the immediate attention of the contractor for correction, the building inspector shall be noticed through the Inspection Report File.

4.3.2.10 **Special Inspector Record of Correction Report.** Each report of non-complying work must be resolved to the satisfaction of the Chief Building Official and documented in a Record of Correction Report using forms obtained from the City (see appendix page F). Each form shall be completely filled out, and in the space provided shall:

- Reference the corresponding Non-Complying Report number.
- Describe the non-complying item/condition and state that the non-complying item/condition is now cleared and in compliance.
- Describe the reinspection/testing process, results and location.
- If acceptance is provided through an engineering letter or detail approved by the Building Official, a copy of such letter or detail shall be attached.

4.3.2.11 **Final Report.** Provide a signed final report that includes the following:

- A cover sheet that lists the name, address, lot and tract number of the project, the permit number, the special inspector's name and City license number, and the following completed statement: "All (main category of work) requiring special inspection has been inspected, reported and found to be in conformance to the approved plans, specifications and codes."
- A table of contents.
- All items as required in Part II for the specific type of work involved.

The final report shall be bound in a folder or comparable means, and presented to the City inspector prior to the final building inspection, but no later than 5 working days after the completion of the specific work to which the report pertains.

5.0 LICENSE NUMBER; REQUIREMENTS

All special inspectors who perform work in the City of Irvine shall first obtain a City of Irvine License for the particular type(s) of construction or operation subject to special inspection. The special inspector's name and City of Irvine License number shall be included on all documents submitted to the City.

Any person wishing to obtain a City of Irvine special inspector license shall submit a complete application and provide evidence of qualification for each type of construction or operation for which application is made. Examples of suitable evidence include certification from a nationally recognized agency such as ACI, AWS, ICC; certification from the City of Los Angeles is also acceptable.

Special Inspector licenses must be renewed annually. At the time of renewal, evidence of qualification must be shown to be current.

PART II - SPECIFIC REQUIREMENTS BY TYPE OF WORK

INTRODUCTION

The following are special inspector duties and responsibilities specific to the various types of work subject to special inspection. For types of construction work subject to special inspection refer to Section 1705 of the California Building Code and Informational Bulletin No. 181. For asphalt concrete, see Article 12 of the City of Irvine Grading and Right-of-Way Manual, and Informational Bulletin No. 151. Note: for ease of reference, each bulletin and excerpts from the Grading and Right-of-Way Manual are included in the appendix.

1.0 CONCRETE AND SHOTCRETE

1.1 **Prior to the Start of Construction.** Unless waived by the Chief Building Official, prior to the start of construction the special inspector shall have participated in a pre-construction meeting wherein responsibilities and processes will have been discussed per subsection 4.2 of Part I.

1.2 **Required Verification and Inspection.** Unless otherwise required by the Chief Building Official or specified by the architect or engineer of record, special inspections shall be performed as required by Table 1 appearing at the end of this section.

1.3 **Reporting.** Throughout the project the special inspector(s) shall generate reports as required in subsection 4.3 of Part I, and as specified below.

1.3.1 **Special Inspection Daily Performance Report.** Each form shall be completely filled out, and in the space provided shall include the following:

1.3.1.1 A clear description of the inspection process, testing and acceptance of structural members and assemblies.

1.3.1.2 (Reinforcing steel and structural embeds) Identity of fabricator, mill certification, description of structural items supplied, and location of use cross-referenced to the approved plans.

1.3.1.3 Itemization of concrete deliveries which includes delivery ticket certificate number, cross-reference to specified strength per approved plans, and description of placement location.

1.3.2 **Non-Compliance Report.** See Part I, subsection 4.3.2.9.

1.3.3 **Record of Correction Report.** See Part I, subsection 4.3.2.10.

1.3.4 **Final Report.** A separate final report for Concrete and Shotcrete shall be provided in conformance to subsection 4.3.2.11, which shall include in order:

1.3.4.1 Certification of Compliance for fabricated and manufactured items.

1.3.4.2 Special Inspector Daily Performance Reports arranged sequentially.

1.3.4.3 Record of Correction Reports and corresponding Non-Compliance Reports arranged sequentially.

TABLE 1
Required Verification and Inspection of Concrete Construction

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. Inspect reinforcement, including prestressing tendons, and verify placement	-----	X	ACI 318: Ch. 20, 25.2, 25.3, 26.5.1-26.5.3
2. Reinforcing bar welding:			
a. Verify weldability of reinforcing bars other than ASTM A706	-----	X	AWS D1.4 ACI 318: 26.5.4
b. Inspect single-pass fillet welds, maximum 5/16"		X	
c. Inspect all other welds	X		
3. Inspect anchors cast in concrete	-----	X	ACI 318: 17.8.2
4. Inspect anchors post-installed in hardened concrete members[b]			
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads	X		ACI 318: 17.8.2.4
b. Mechanical anchors and adhesive anchors not defined in 4.a		X	ACI 318: 17.8.2.
5. Verify use of required design mix	-----	X	ACI 318: Ch. 19, 26.4.3, 26.4.4
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	X	-----	ASTM C172 ASTM C31 ACI 318: 26.4.5, 26.12
7. Inspect concrete and shotcrete placement for proper application techniques	X	-----	ACI 318: 26.4.5
8. Verify maintenance of specified curing temperature and techniques	-----	X	ACI 318: 26.4.7-26.4.9
9. Inspect prestressed concrete for:			
a. Application of prestressing forces	X	-----	ACI 318: 26.9.2.1
b. Grouting of bonded prestressing tendons	X	-----	ACI 318: 26.9.2.3
10. Inspect erection of precast concrete members	-----	X	ACI 318: Ch. 26.8
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	ACI 318: 26.10.2
12. Inspect formwork for shape, location and dimensions of the concrete member being formed	-----	X	ACI 318: 26.10.1(b)

a. See also special inspection for seismic resistance.

b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, 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.

2.0 STRUCTURAL STEEL

2.1 **Prior to the Start of Construction.** Unless waived by the Chief Building Official, prior to the start of construction the special inspector shall have participated in a pre-construction meeting wherein responsibilities and processes will have been discussed per subsection 4.2 of Part I.

2.2 **Required Verification and Inspection.** Unless otherwise required by the Chief Building Official or specified by the architect or engineer of record, special inspections shall be performed as required by Table 2.

2.3 **Reporting.** Throughout the project the special inspector(s) shall generate reports as required in subsection 4.3 of Part I, and as specified below.

2.3.1 **Special Inspection Daily Performance Report.** Each form shall be completely filled out, and in the space provided shall include the following:

2.3.1.1 A clear description of the inspection process, testing and acceptance of structural members and assemblies.

2.3.1.2 Identity of fabricator, description of structural items supplied, and location of use cross-referenced to the approved plans.

2.3.1.3 A listing of all shop inspection documentation and mill certifications cross-referenced to the approved plans.

2.3.1.4 A listing of all welders on the job site that day which includes names, work addresses, certification numbers and types of weld processes and positions for which certification is provided, and a description of work performed by each welder.

2.3.2 **Non-Compliance Report.** See Part I, subsection 4.3.2.9.

2.3.3 **Record of Correction Report.** See Part I, subsection 4.3.2.10.

2.3.4 **Final Report.** A separate final report for Structural Steel Construction shall be provided in conformance to subsection 4.3.2.11, which shall include in order:

2.3.4.1 Certification of Compliance for fabricated and manufactured items.

2.3.4.2 Special Inspector Daily Performance Reports arranged sequentially.

2.3.4.3 Record of Correction Reports and corresponding Non-Compliance Reports arranged sequentially.

TABLE 2
Required Verification and Inspection of Steel Construction

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. Material verification of high-strength bolts, nuts, and washers:			AISC 360, Section A3.3 and applicable ASTM material standards
a. Identification markings to conform to ASTM standards specified in the approved construction documents	-----	X	
b. Manufacturer's certificate of compliance required	-----	X	-----
2. Inspection of high-strength bolting:			
a. Snug-tight joints	-----	X	
b. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation	-----	X	AISC 360, Section M2.5
c. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation	X	-----	
3. Material verification of structural steel and cold-formed steel deck:			
a. For structural steel, identification markings to conform to AISC 360	-----	X	AISC 360, Section A3.1
b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents	-----	X	Applicable ASTM material standards
c. Manufacturer's certified test reports	-----	X	-----
4. Material verification of weld filler materials:			AISC 360, Section A3.5 and applicable AWS A5 documents
a. Identification markings to conform to AWS specification in the approved construction documents	-----	X	
b. Manufacturer's certificate of compliance required	-----	X	-----
5. Inspection of welding:			
a. Structural steel and cold-formed steel deck:			
1. Complete and partial joint penetration groove welds	X	-----	
2. Multipass fillet welds	X	-----	
3. Single-pass fillet welds > 5/16"	X	-----	AWS D1.1 AWS D1.8
4. Plug and slot welds	X	-----	
5. Single-pass fillet welds ≤ 5/16"	-----	X	
6. Floor and roof deck welds	-----	X	AWS D1.3
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 structural walls of concrete and shear reinforcement	X	-----	AWS D1.4 ACI 318: Sections 26.6.4.1, 18.2.8, 25.5.7.4
3. Shear reinforcement	X		
4. Other reinforcing steel	-----	X	
6. Inspection of steel frame joint details for compliance:			
a. Details such as bracing and stiffening	-----	X	-----
b. Member locations	-----	X	-----
c. Application of joint details at each connection	-----	X	-----
7. Installation of open-web steel joists and joist girders			
a. End connections - welding or bolted	-----	X	SJI, Section 22.07.1
b. Bridging - horizontal or diagonal	-----		
1. Standard bridging	-----	X	SJI, Section 22.07.1
2. Bridging that differs from the SJI specifications listed in Section 2207.1		X	

3.0 MASONRY

3.1 **Prior to the Start of Construction.** Unless waived by the Chief Building Official, prior to the start of construction the special inspector shall have participated in a pre-construction meeting wherein responsibilities and processes will have been discussed per subsection 4.2 of Part I.

3.2 **Required Verification and Inspection.** Unless otherwise required by the Chief Building Official or specified by the architect or engineer of record, special inspections shall be performed as required by Table 3.

3.3 **Reporting.** Throughout the project the special inspector(s) shall generate reports as required in subsection 4.3 of Part I, and as specified below.

3.3.1 **Special Inspection Daily Performance Report.** Each form shall be completely filled out, and in the space provided shall include the following:

3.3.1.1 A clear description of the inspection process, testing and acceptance of structural members and assemblies.

3.3.1.2 (Reinforcing steel and structural embeds) Identity of fabricator, mill certifications, description of structural items supplied, and location of use cross-referenced to the approved plans.

3.3.1.3 A listing of all shop inspection documentation and mill certifications cross-referenced to the approved plans.

3.3.2 **Non-Compliance Report.** See Part I, subsection 4.3.2.9.

3.3.2.1 **Record of Correction Report.** See Part I, subsection 4.3.2.10.

3.3.3 **Final Report.** A separate final report for Masonry shall be provided in conformance to subsection 4.3.2.11, which shall include in order:

3.3.3.1 Certification of Compliance for fabricated and manufactured items.

3.3.3.2 Special Inspector Daily Performance Reports arranged sequentially.

3.3.3.3 Record of Correction Reports and corresponding Non-Compliance Reports arranged sequentially.

TABLE 3

Required Verification and Inspection of Masonry Construction

MINIMUM TESTS
Verification of f'_m and f'_{AAC} in accordance with Specification Article 1.4 B prior to construction and for every 5,000 sq. ft. (465 sq. m.) during construction.
Verification of proportions of materials in premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout, as delivered to the project site.
Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with Specification Article 1.5 B.1.b.3 for self-consolidating grout.

MINIMUM SPECIAL INSPECTION				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	
			TMS 402 ACI 530 ASCE 5	TMS 602 ACI 530.1 ASCE 6
1. Verify compliance with the approved submittals		X		Art. 1.5
2. Verify that the following are in compliance:				
a. Proportions of site-mixed mortar, grout and prestressing grout for bonded tendons		X		Art. 2.1, 2.6 A. 2.6 B, 2.6 C, 2.4 G.1.b
b. Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages		X	Sec. 6.1	Art. 2.4, 3.4
c. Placement of masonry units and construction of mortar joints		X		Art. 3.3 B
d. Placement of reinforcement, connectors, and prestressing tendons and anchorages	X		Sec. 6.1, 6.2.1, 6.2.6, 6.2.7	Art. 3.2 E, 3.4, 3.6 A
e. Grout space prior to grouting	X			Art. 3.2 D, 3.2 F
f. Placement of grout and prestressing grout for bonded tendons	X			Art. 3.5, 3.6 C
g. Size and location of structural elements		X		Art. 3.3 F
h. Type, size, and location of anchors including other details of anchorage of masonry to structural members, frames, or other construction	X		Sec. 1.2.1(e), 6.1.4.3, 6.2.1	
i. Welding of reinforcement	X		Sec. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b)	
j. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F (32.2°C))		X		Art. 1.8 C, 1.8 D
k. Application and measurement of prestressing force	X			Art. 3.6 B
l. Placement of AAC masonry units and construction of thin-bed mortar joints	X			Art. 3.3 B.9, 3.3 F.1.b
m. Properties of thin-bed mortar joints	X			Art. 2.1 C.1
3. Observe preparation of grout specimens, mortar specimens, and/or prisms	X			Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

4.0 WOOD

4.1 **Prior to the Start of Construction.** Unless waived by the Chief Building Official, prior to the start of construction the special inspector shall have participated in a pre-construction meeting wherein responsibilities and processes will have been discussed per subsection 4.2 of Part I.

4.2 **Required Verification and Inspection.** Unless otherwise required by the Chief Building Official or specified by the architect or engineer of record, special inspections shall be performed as required by Table 4.

4.3 **Reporting.** Throughout the project the special inspector(s) shall generate reports as required in subsection 4.3 of Part I, and as specified below.

4.3.1 **Special Inspection Daily Performance Report.** Each form shall be completely filled out, and in the space provided shall include the following:

4.3.1.1 A clear description of the inspection process, testing and acceptance of structural members and assemblies.

4.3.1.2 (Reinforcing steel and structural embeds) Identity of fabricator, mill certifications, description of structural items supplied, and location of use cross-referenced to the approved plans.

4.3.1.3 A listing of all shop inspection documentation and mill certifications cross-referenced to the approved plans.

4.3.2 **Non-Compliance Report.** See Part I, subsection 4.3.2.9.

4.3.2.1 **Record of Correction Report.** See Part I, subsection 4.3.2.10.

4.3.3 **Final Report.** A separate final report for Wood shall be provided in conformance to subsection 4.3.2.11, which shall include in order:

4.3.3.1 Certification of Compliance for fabricated and manufactured items.

4.3.3.2 Special Inspector Daily Performance Reports arranged sequentially.

4.3.3.3 Record of Correction Reports and corresponding Non-Compliance Reports arranged sequentially.

TABLE 4
Required Verification and Inspection of Wood

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. Prefabricated wood structural elements		
a. Shop fabrication		X
2. High-load diaphragm		
a. Inspect wood structural panel sheathing grade and thickness		X
b. Verify framing size		X
c. Verify nail or staple diameter, length, number of fasteners per line and spacing		X
3. Metal plate connected wood trusses over 60 ft.		
a. Inspect wood structural panel sheathing grade and thickness		X
b. Verify framing size		X

5.0 SOILS

5.1 **Prior to the Start of Construction.** Unless waived by the Chief Building Official, prior to the start of construction the special inspector shall have participated in a pre-construction meeting wherein responsibilities and processes will have been discussed per subsection 4.2 of Part I.

5.2 **Required Verification and Inspection.** Unless otherwise required by the Chief Building Official or specified by the architect or engineer of record, special inspections shall be performed as required by Table 5.

5.3 **Reporting.** Throughout the project the special inspector(s) shall generate reports as required in subsection 4.3 of Part I, and as specified below.

5.3.1 **Special Inspection Daily Performance Report.** Each form shall be completely filled out, and in the space provided shall include the following:

5.3.1.1 A clear description of the inspection process, testing and acceptance of structural members and assemblies.

5.3.1.2 (Reinforcing steel and structural embeds) Identity of fabricator, mill certifications, description of structural items supplied, and location of use cross-referenced to the approved plans.

5.3.1.3 A listing of all shop inspection documentation and mill certifications cross-referenced to the approved plans.

5.3.2 **Non-Compliance Report.** See Part I, subsection 4.3.2.9.

5.3.2.1 **Record of Correction Report.** See Part I, subsection 4.3.2.10.

5.3.3 **Final Report.** A separate final report for Soils shall be provided in conformance to subsection 4.3.2.11, which shall include in order:

5.3.3.1 Certification of Compliance for fabricated and manufactured items.

5.3.3.2 Special Inspector Daily Performance Reports arranged sequentially.

5.3.3.3 Record of Correction Reports and corresponding Non-Compliance Reports arranged sequentially.

TABLE 5
Required Verification and Inspection of Soils

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. Verify material below shallow foundations are adequate to achieve the design 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, inspect subgrade and verify that site has been prepared properly.	-----	X

6.0 PILING, DRILLED PIERS AND CAISSONS

6.1 **Prior to the Start of Construction.** Unless waived by the Chief Building Official, prior to the start of construction the special inspector shall have participated in a pre-construction meeting wherein responsibilities and processes will have been discussed per 4.2 of Part I.

6.2 **Required Verification and Inspection.** Unless otherwise required by the Chief Building Official or specified by the architect or engineer of record, special inspections for piling, drilled piers and caissons shall be required by Table 6.

6.3 **Reporting.** Throughout the project the special inspector(s) shall generate reports as required in subsection 4.3 of Part I, and as specified below.

6.3.1 **Special Inspection Daily Performance Report.** Each form shall be completely filled out, and in the space provided shall include the following:

6.3.1.1 A clear description of the inspection process, testing and acceptance of structural members and assemblies.

6.3.1.2 Blow count and depth of refusal, if any, for driven piles.

6.3.1.3 Cutoff and tip elevation of each completed pile, pier and/or caisson relative to a fixed reference.

6.3.1.4 Identity of fabricator, description of structural items supplied, and location of use cross-referenced to the approved plans.

6.3.1.5 A listing of all shop inspection documentation and mill certifications cross-referenced to the approved plans.

6.3.1.6 For drilled piers and caissons refer to section 1.3.1.

6.3.2 **Non-Compliance Report.** See Part I, subsection 4.3.2.9.

6.3.3 **Record of Correction Report.** See Part I, subsection 4.3.2.10.

6.3.4 **Final Report.** A separate final report shall be provided for Piling, Drilled Piers and Caissons in conformance to subsection 4.3.2.11, which shall include in order:

6.3.4.1 Certification of Compliance for fabricated and manufactured items.

6.3.4.2 Special Inspector Daily Performance Reports arranged sequentially.

6.3.4.3 Record of Correction Reports and corresponding Non-Compliance Reports arranged sequentially.

TABLE 6

Required Verification and Inspection of Driven Deep Foundation Elements

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
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 special inspections in accordance with Table 2.	-----	-----
6. For concrete elements and concrete-filled elements, perform tests and additional special inspections in accordance with Table 1.	-----	-----
7. For special elements, perform additional inspections as determined by the registered design professional in responsible charge.	-----	-----

Required Verification and Inspection of Cast-in-Place Deep Foundation Elements

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
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	-----
3. For concrete elements, perform tests and additional special inspections in accordance with Table 1.	-----	-----

7.0 WIND-RESISTANCE COMPONENTS

7.1 **Prior to the Start of Construction.** Unless waived by the Chief Building Official, prior to the start of construction the special inspector shall have participated in a pre-construction meeting wherein responsibilities and processes will have been discussed per subsection 4.2 of Part I.

7.2 **Required Verification and Inspection.** Unless otherwise required by the Chief Building Official or specified by the architect or engineer of record, special inspections shall be performed as required by Table 7.

7.3 **Reporting.** Throughout the project the special inspector(s) shall generate reports as required in subsection 4.3 of Part I, and as specified below.

7.3.1 **Special Inspection Daily Performance Report.** Each form shall be completely filled out, and in the space provided shall include the following:

7.3.1.1 A clear description of the inspection process, testing and acceptance of structural members and assemblies.

7.3.1.2 (Reinforcing steel and structural embeds) Identity of fabricator, mill certifications, description of structural items supplied, and location of use cross-referenced to the approved plans.

7.3.1.3 A listing of all shop inspection documentation and mill certifications cross-referenced to the approved plans.

7.3.2 **Non-Compliance Report.** See Part I, subsection 4.3.2.9.

7.3.2.1 **Record of Correction Report.** See Part I, subsection 4.3.2.10.

7.3.3 **Final Report.** A separate final report for Wind-Resistance Components shall be provided in conformance to subsection 4.3.2.11, which shall include in order:

7.3.3.1 Certification of Compliance for fabricated and manufactured items.

7.3.3.2 Special Inspector Daily Performance Reports arranged sequentially.

7.3.3.3 Record of Correction Reports and corresponding Non-Compliance Reports arranged sequentially.

TABLE 7

Required Verification and Inspection of Wind-Resistance Components

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. Structural wood		
a. Field glueing elements part of the main wind-force resisting system	X	
b. Nailing, bolting, anchoring and other fastening of elements 3" spacing or less of elements in the main wind-force system		X
2. Cold form stell light-frame construction		
a. Welding of elements in the main wind-force resisting system		X
b. Screw attachment, bolting, anchoring and other fastening of elements in the main wind-force resisting system		X
3. Wind-resisting components		
a. Fastening of roof covering, roof deck and roof framing connections		X
b. Fastening of exterior wall covering and wall connections to roof and floor diaphragms and framing		X

8.0 SEISMIC-RESISTING COMPONENTS

8.1 **Prior to the Start of Construction.** Unless waived by the Chief Building Official, prior to the start of construction the special inspector shall have participated in a pre-construction meeting wherein responsibilities and processes will have been discussed per subsection 4.2 of Part I.

8.2 **Required Verification and Inspection.** Unless otherwise required by the Chief Building Official or specified by the architect or engineer of record, special inspections shall be performed as required by Table 8.

8.3 **Reporting.** Throughout the project the special inspector(s) shall generate reports as required in subsection 4.3 of Part I, and as specified below.

8.3.1 **Special Inspection Daily Performance Report.** Each form shall be completely filled out, and in the space provided shall include the following:

8.3.1.1 A clear description of the inspection process, testing and acceptance of structural members and assemblies.

8.3.1.2 (Reinforcing steel and structural embeds) Identity of fabricator, mill certifications, description of structural items supplied, and location of use cross-referenced to the approved plans.

8.3.1.3 A listing of all shop inspection documentation and mill certifications cross-referenced to the approved plans.

8.3.2 **Non-Compliance Report.** See Part I, subsection 4.3.2.9.

8.3.2.1 **Record of Correction Report.** See Part I, subsection 4.3.2.10.

8.3.3 **Final Report.** A separate final report for Seismic-Resisting Components shall be provided in conformance to subsection 4.3.2.11, which shall include in order:

8.3.3.1 Certification of Compliance for fabricated and manufactured items.

8.3.3.2 Special Inspector Daily Performance Reports arranged sequentially.

8.3.3.3 Record of Correction Reports and corresponding Non-Compliance Reports arranged sequentially.

TABLE 8

Required Verification and Inspection of Seismic-Resisting Components

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. Structural wood		
a. Field glueing elements part of the seismic-force resisting system	X	
b. Nailing, bolting, anchoring and other fastening of elements 3" spacing or less of elements in the seismic-force resisting system		X
2. Structural steel		
Special inspection of structural steel in the seismic-force resisting system of buildings shall be performed in accordance with the quality assurance requirements of American Institute of Steel Construction (AISC) 341		
3. Cold form stell light-frame construction		
a. Welding of elements in the seismic-force resisting system		X
b. Screw attachment, bolting, anchoring and other fastening of elements in the seismic-force resisting system including shear walls, braces, diaphragms, collectors (drag structs) and hold-downs		X
4. Storage racks		
Anchorage of storage racks that are 8 feet or greater		X
5. Architectural components		
a. Erection and fastening of exterior cladding and exterior/interior veneer weighing 5 psf or more and 30 feet or more above walking surface		X
b. Erection and fastening of interior non-bearing walls weighing 15 psf or more and interior and exterior non-bearing walls 30 feet or more above grade or walking surface		X
c. Anchorage of access floors		X
6. Plumbing, mechanical and electrical components		
a. Anchorage of electrical equipment for emergency and standby power systems and others		X
b. Installation and anchorage of piping systems and associated mechanical units carrying hazardous materials		X
c. Installation and anchorage of ductwork designed to carry hazardous materials		X
d. Installation and anchorage of vibration isolation systems where required a nominal clearance of 1/4" or less between the equipment support frame and restraint		X
7. Designated seismic systems		
Special inspector shall examine designated seismic systems requiring seismic qualification in accordance with Section 13.2.2 of ASCE 7 and verify that the label, anchorage and mounting conforms to the certificate of compliance		
8. Seismic isolation systems		
a. Fabrication and installation of isolator units		X
b. Fabrication and installation of energy dissipation devices		X
9. Cold-formed steel special bolted moment frames		
a. Installation of cold-formed steel special bolted moment frames in seismic-force resisting systems of structures		X

9.0 TESTING FOR SEISMIC RESISTANCE

9.1 **Prior to the Start of Construction.** Unless waived by the Chief Building Official, prior to the start of construction the special inspector shall have participated in a pre-construction meeting wherein responsibilities and processes will have been discussed per subsection 4.2 of Part I.

9.2 **Required Verification and Inspection.** Unless otherwise required by the Chief Building Official or specified by the architect or engineer of record, special inspections shall be performed as required by Table 9.

9.3 **Reporting.** Throughout the project the special inspector(s) shall generate reports as required in subsection 4.3 of Part I, and as specified below.

9.3.1 **Special Inspection Daily Performance Report.** Each form shall be completely filled out, and in the space provided shall include the following:

9.3.1.1 A clear description of the inspection process, testing and acceptance of structural members and assemblies.

9.3.1.2 Identity of fabricator, description of structural items supplied, and location of use cross-referenced to the approved plans.

9.3.1.3 A listing of all shop inspection documentation and mill certifications cross-referenced to the approved plans.

9.3.1.4 A listing of all welders on the job site that day which includes names, work addresses, certification numbers and types of weld processes and positions for which certification is provided, and a description of work performed by each welder.

9.3.2 **Non-Compliance Report.** See Part I, subsection 4.3.2.9.

9.3.3 **Record of Correction Report.** See Part I, subsection 4.3.2.10.

9.3.4 **Final Report.** A separate final report for Testing for Seismic Resistance shall be provided in conformance to subsection 4.3.2.11, which shall include in order:

9.3.4.1 Certification of Compliance for fabricated and manufactured items.

9.3.4.2 Special Inspector Daily Performance Reports arranged sequentially.

9.3.4.3 Record of Correction Reports and corresponding Non-Compliance Reports arranged sequentially.

TABLE 9
Inspection Testing for Seismic Resistance

INSPECTION
1. Structural steel a. Seismic-force resisting systems - Non-destructive testing of structural steel in accordance with the quality assurance requirements of AISC 341 b. Structural steel elements - Non-destructive testing of structural steel including struts, collectors, chords and foundation elements in accordance with the quality assurance requirements of AISC 314
2. Non-structural components Non-structural components, supports or attachments subject to seismic qualification; Certificate of compliance for seismic qualification shall be provided to the Building Official
3. Designated seismic systems Designated seismic systems subject to seismic qualification; Certificate of compliance for the seismic qualification shall be provided to the Building Official

10.0 SPRAY-APPLIED FIRE-RESISTIVE MATERIALS

10.1 **Prior to the Start of Construction.** Unless waived by the Chief Building Official, prior to the start of construction the special inspector shall have participated in a pre-construction meeting wherein responsibilities and processes will have been discussed per subsection 4.2 of Part I.

10.2 **Required Verification and Inspection.** Unless otherwise required by the Chief Building Official or specified by the architect or engineer of record, special inspections for sprayed fire-resistant materials applied to structural elements and decks shall be as follows:

10.2.1 **Physical and Visual Tests.** To demonstrate compliance with the listing and fire-resistance rating.

10.2.2 **Structural Member Surface Conditions.** Surface preparation shall be verified to be in accordance with the approved fire resistance design and the manufacturer's written instructions.

NOTE: Authorization by the building inspector shall be obtained prior to application of spray-applied materials.

10.2.3 **Application.** Minimum substrate ambient temperature and proper ventilation before and after application as required per approved written manufacturer's instructions shall be verified.

10.2.4 **Thickness.** Thickness measured in accordance to ASTM E 605 shall be verified on average to comply with the approved plans and specifications. In calculating average thickness, any sample measurement exceeding the design thickness by more than ¼ inch, shall be counted as the design thickness plus ¼ inch. For design thicknesses of 1 inch or greater, thicknesses of less than design thickness minus ¼ inch shall be rejected. For design thicknesses less than 1 inch, thicknesses of less than the design thickness minus 25 percent shall be rejected. In-place sampling for thickness determinations shall occur as specified in the approved plans and specifications, but not to be less than:

10.2.4.1 **Floor, Roof, and Wall Assemblies.** 4 measurements for each 1,000 square feet of sprayed applied area of each floor or portion thereof.

10.2.4.2 **Structural Framing Members.** 25 percent of the structural members of each floor.

10.2.4.3 **Cellular and Fluted Decks.** Thickness measurements shall be selected from a square area 12" x 12".

10.2.5 **Density.** Density measured in accordance to ASTM E 605 shall be verified to comply with approved plans and specifications.

10.2.6 **Bond Strength.** Cohesive/adhesive bond strength measured in accordance to the field test specified in ASTM E 736 shall be verified to comply with approved plans and specifications, but no less than 150 psf. In-place sampling shall occur as specified in the approved plans and specifications, but not to be less than:

10.2.6.1 **Floor, Roof and Wall Assemblies.** 1 sample per 2,500 square feet of the sprayed area or portion thereof, in each story.

10.2.6.2 **Structural Framing Members.** 1 sample per 2,500 square feet of floor area for each type of structural framing member, e.g. column, beam, girder, truss.

10.2.6.3 **Primer, Paint and Encapsulant Bond Tests.** Applicable when the bond-strength performance between fire-resistant material and coatings have not been determined. Use of an approved bonding agent may be required.

10.3 **Reporting.** Throughout the project the special inspector(s) shall generate reports as required in subsection 4.3 of Part I, and as specified below.

10.3.1 **Special Inspection Daily Performance Report.** Each form shall be completely filled out, and in the space provided shall include the following:

10.3.1.1 A clear description of the inspection process, testing and acceptance of the members and/or assemblies treated including degree of protection, cross-referenced to the approved plans and specifications.

10.3.1.2 Identity of manufacturer and product used.

10.3.2 **Non-Compliance Report.** See Part I, subsection 4.3.2.9.

10.3.3 **Record of Correction Report.** See Part I, subsection 4.3.2.10.

10.3.4 **Final Report.** A separate final report for Spray-Applied Fire Resistive Materials section shall be provided in conformance to Part I, subsection 4.3.2.11, which shall include in order:

10.3.4.1 Certification of Compliance for fabricated and manufactured items.

10.3.4.2 Special Inspector Daily Performance Reports arranged sequentially.

10.3.4.3 Record of Correction Reports and corresponding Non-Compliance Reports arranged sequentially.

11.0 MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS

11.1 **Prior to the Start of Construction.** Unless waived by the Chief Building Official, prior to the start of construction the special inspector shall have participated in a pre-construction meeting wherein responsibilities and processes will have been discussed per subsection 4.2 of Part I.

11.2 **Required Verification and Inspection.** Unless otherwise required by the Chief Building Official or specified by the architect or engineer of record, special inspections shall be performed for mastic and intumescent fire-resistant coatings applied to structural elements and decks in accordance to AWCI 12-B.

11.3 **Reporting.** Throughout the project the special inspector(s) shall generate reports as required in subsection 4.3 of Part I, and as specified below.

11.3.1 **Special Inspection Daily Performance Report.** Each form shall be completely filled out, and in the space provided shall include the following:

11.3.1.1 A clear description of the inspection process, testing and acceptance of structural members and assemblies.

11.3.1.2 Identity of fabricator, description of structural items supplied, and location of use cross-referenced to the approved plans.

11.3.1.3 A listing of all shop inspection documentation and mill certifications cross-referenced to the approved plans.

11.3.1.4 A listing of all welders on the job site that day which includes names, work addresses, certification numbers and types of weld processes and positions for which certification is provided, and a description of work performed by each welder.

11.3.2 **Non-Compliance Report.** See Part I, subsection 4.3.2.9.

11.3.3 **Record of Correction Report.** See Part I, subsection 4.3.2.10.

11.3.4 **Final Report.** A separate final report for Mastic and Intumescent Fire-Resistant Coatings shall be provided in conformance to subsection 4.3.2.11, which shall include in order:

11.3.4.1 Certification of Compliance for fabricated and manufactured items.

11.3.4.2 Special Inspector Daily Performance Reports arranged sequentially.

11.3.4.3 Record of Correction Reports and corresponding Non-Compliance Reports arranged sequentially.

12.0 EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)

12.1 **Prior to the Start of Construction.** Unless waived by the Chief Building Official, prior to the start of construction the special inspector shall have participated in a pre-construction meeting wherein responsibilities and processes will have been discussed per subsection 4.2 of Part I.

12.2 **Required Verification and Inspection.** Unless otherwise required by the Chief Building Official or specified by the architect or engineer of record, special inspections shall be performed for EIFS installed over other than masonry or concrete walls or EIFS not installed over a water-resistive barrier.

12.3 **Reporting.** Throughout the project the special inspector(s) shall generate reports as required in subsection 4.3 of Part I, and as specified below.

12.3.1 **Special Inspection Daily Performance Report.** Each form shall be completely filled out, and in the space provided shall include the following:

12.3.1.1 A clear description of the inspection process, testing and acceptance of structural members and assemblies.

12.3.1.2 Identity of fabricator, description of structural items supplied, and location of use cross-referenced to the approved plans.

12.3.1.3 A listing of all shop inspection documentation and mill certifications cross-referenced to the approved plans.

12.3.1.4 A listing of all welders on the job site that day which includes names, work addresses, certification numbers and types of weld processes and positions for which certification is provided, and a description of work performed by each welder.

12.3.2 **Non-Compliance Report.** See Part I, subsection 4.3.2.9.

12.3.3 **Record of Correction Report.** See Part I, subsection 4.3.2.10.

12.3.4 **Final Report.** A separate final report for Exterior Insulation and Finish Systems (EIFS) shall be provided in conformance to subsection 4.3.2.11, which shall include in order:

12.3.4.1 Certification of Compliance for fabricated and manufactured items.

12.3.4.2 Special Inspector Daily Performance Reports arranged sequentially.

12.3.4.3 Record of Correction Reports and corresponding Non-Compliance Reports arranged sequentially.

13.0 FIRE-RESISTANT PENETRATION AND JOINTS

13.1 **Prior to the Start of Construction.** Unless waived by the Chief Building Official, prior to the start of construction the special inspector shall have participated in a pre-construction meeting wherein responsibilities and processes will have been discussed per subsection 4.2 of Part I.

13.2 **Required Verification and Inspection.** Unless otherwise required by the Chief Building Official or specified by the architect or engineer of record, special inspections shall be performed for high-rise buildings and buildings assigned to risk category III or IV as follows:

13.2.1 **Penetration Firestop Systems.** To be listed and tested in accordance with ASTM E2174.

13.2.2 **Fire-Resistant Joint Systems.** To be listed and tested in accordance with ASTM E2393.

13.3 **Reporting.** Throughout the project the special inspector(s) shall generate reports as required in subsection 4.3 of Part I, and as specified below.

13.3.1 **Special Inspection Daily Performance Report.** Each form shall be completely filled out, and in the space provided shall include the following:

13.3.1.1 A clear description of the inspection process, testing and acceptance of structural members and assemblies.

13.3.1.2 Identity of fabricator, description of structural items supplied, and location of use cross-referenced to the approved plans.

13.3.1.3 A listing of all shop inspection documentation and mill certifications cross-referenced to the approved plans.

13.3.1.4 A listing of all welders on the job site that day which includes names, work addresses, certification numbers and types of weld processes and positions for which certification is provided, and a description of work performed by each welder.

13.3.2 **Non-Compliance Report.** See Part I, subsection 4.3.2.9.

13.3.3 **Record of Correction Report.** See Part I, subsection 4.3.2.10.

13.3.4 **Final Report.** A separate final report for Fire Resistant Penetration and Joints shall be provided in conformance to subsection 4.3.2.11, which shall include in order:

13.3.4.1 Certification of Compliance for fabricated and manufactured items.

13.3.4.2 Special Inspector Daily Performance Reports arranged sequentially.

13.3.4.3 Record of Correction Reports and corresponding Non-Compliance Reports arranged sequentially.

14.0 TESTING FOR SMOKE-CONTROL

14.1 **Prior to the Start of Construction.** Unless waived by the Chief Building Official, prior to the start of construction the special inspector shall have participated in a pre-construction meeting wherein responsibilities and processes will have been discussed per subsection 4.2 of Part I. Special emphasis shall be placed on conducting a thorough review of the design engineer's test plan.

14.2 **Required Inspection and Testing.** Unless otherwise required by the Chief Building Official or specified by the architect or engineer of record, special inspections for Smoke-Control Systems are required:

- During the erection of ductwork (including drywall shafts) and prior to concealment for the purposes of leakage testing and recording of device locations, and
- Prior to occupancy and after sufficient completion for the purposes of pressure difference testing, flow measurements, and detection and control verification, and
- Shall meet the minimum criteria per California Fire Code section 909.18.

14.3 **Reporting.** Throughout the project the special inspector(s) shall generate reports as required in subsection 4.3 of Part I, and as specified below.

14.3.1 **Special Inspection Daily Performance Report.** Each form shall be completely filled out, and in the space provided shall include a clear description of the inspection process, testing and acceptance of system components and assemblies. Approved plans and specifications shall be cross-referenced.

14.3.2 **Non-Compliance Report.** See Part I, subsection 4.3.2.9.

14.3.3 **Record of Correction Report.** See Part I, subsection 4.3.2.10.

14.3.4 **Final Report.** A separate final report shall be provided for the Smoke-Control System in conformance to section 909.18.8.3 of the California Building Code and California Fire Code.

A complete report of testing shall be prepared by the special inspector or by the special inspector agency. The report shall include identification of all devices by manufacturer, nameplate data, design values, measured values and identification tag or mark. The report shall be reviewed by the responsible designer, and when satisfied that the design intent has been achieved, the responsible registered design professional shall sign, seal, and date to the report with a statement as follows:

"I have reviewed this report and by personal knowledge and onsite observation, certify that the smoke control system is in substantial compliance with the design intent, and to the best of my understanding, complies with the code."

A copy of the final report shall be filed with the fire code official and an identical copy shall be maintained in approved location at the building.

15.0 ASPHALT PAVING

15.1 **Prior to the Start of Construction.** Unless waived by the Chief Building Official, prior to the start of construction the special inspector shall have participated in a pre-construction meeting wherein responsibilities and processes will have been discussed per subsection 4.2 of Part I.

15.2 **Required Verification and Inspection.** Unless otherwise required by the Chief Building Official or specified by the architect or engineer of record, special inspections for asphalt paving shall be as follows:

15.2.1 **Materials.** Prior to placement of asphalt, materials shall be verified to conform to the approved plans, the current edition of the Standard Specifications For Public Works Construction and any supplemental specifications.

15.2.2 **Asphalt Placement.** Asphalt placement shall be continuously inspected to verify placement and application techniques conforming to approved plans, the current edition of the Standard Specifications For Public Works Construction and any supplemental specifications.

15.3 **Reporting.** Throughout the project the special inspector(s) shall generate reports as required in subsection 4.3 of Part I, and as specified below.

15.3.1 **Special Inspection Daily Performance Report.** Each form shall be completely filled out, and in the space provided shall include the following:

15.3.1.1 A clear description of the inspection process, testing and acceptance of paved sections or areas.

15.3.1.2 Itemization of asphalt deliveries which includes delivery ticket certificate number, cross-reference to specified mix design of approved plans and specifications, and description of placement location.

15.3.2 **Non-Compliance Report.** See Part I, subsection 4.3.2.9.

15.3.3 **Record of Correction Report.** See Part I, subsection 4.3.2.10.

15.3.4 **Final Report.** A separate final report for Asphalt Paving shall be provided in conformance to 4.3.2.11, which shall include in order:

15.3.4.1 Certification of Compliance for fabricated and manufactured items.

15.3.4.2 Special Inspector Daily Performance Reports arranged sequentially.

15.3.4.3 Record of Correction Reports and corresponding Non-Compliance Reports arranged sequentially.