



I. General

This building newsletter outlines regulations which have been adopted to assure that special inspection and structural observation requirements are clearly and prominently visible on the plans and meet the intent of Sections 106.3 and 1701 of the Uniform Building Code.

II. Special Inspection Program

When special inspection is required by UBC Section 1701, the architect or engineer of record shall prepare an inspection program which shall be submitted to the building official for approval prior to issuance of the building permit. The inspection program shall designate the portions of the work that require special inspection and the name or names of the individuals or firms who are to perform the special inspections, and indicate the duties of the special inspectors.

The special inspector shall be employed by the owner, the engineer or architect of record, or an agent of the owner, but not the contractor or any other person responsible for the work.

The special inspector or firm must be certified by the Field Inspection Services Division of the Development Services Department. Standard forms for the special inspection and observation program are available and may be picked up at Structural Plan Check Division, or at the Field Inspection Services Office.

The summary of work requiring special inspection must be noted on plans.

III. Specifying Special Inspection Information

A. The designer shall provide on the plans a listing of all the work required to be specially inspected. The list shall be complete and comprehensive and located in a conspicuous place.

1. The following information *must* be provided on that listing or a reference must be provided indicating where it is located on the plans.
 - a. The type of work requiring special inspection (i.e. concrete, high-strength bolts, shotcrete, etc.).
 - b. A description of the work requiring special inspection.
 - c. The sheet numbers of plans or detail number or ICBO approval number where information required to perform those inspections may be found.
 - d. Allowable design stresses of construction mate-

rials and other pertinent information needed to inspect the work and sample the materials specified.

2. Where periodic inspection of the work is intended, an outline of the periodic inspection requirements shall be provided in the project plans. UBC Sec. 1701.6.2.
3. When a foundation investigation (soil investigation) is to be performed, the soils investigation report, including date and project number shall be included in the listing.
4. NOTES: The following information shall be provided as footnotes to the special inspection list.
 - a. The special inspections listed are in addition to the called inspections required by Section 108 of the UBC, as amended. Special inspection is not a substitute for inspection by a City Inspector.
 - b. Continuous inspection is always required during the performance of the work unless otherwise specified. When work in more than one category of work requiring special inspection is to be performed simultaneously, or the geographic location of the work is such that it cannot be continuously observed in accordance with the provisions of UBC Section 1701.6.1, it is the agent's responsibility to employ a sufficient number of inspectors to assure that all the work is inspected in accordance with those provisions.
 - c. The special inspectors must be certified by the City of San Diego, Field Inspection Services, to perform the types of inspection specified.

Exceptions:

1. Soils inspections, by the soils engineer of record.
 2. Smoke Control System, by the Mechanical Engineer of record.
 3. When waived by the Building Official.
- d. It is the responsibility of the contractor to notify the special inspector or inspection agency at least one working day prior to performing any work that requires special inspection.
 - e. Specially inspected work that is installed or covered without the approval of the City Inspector is subject to removal or exposure.
- B. A suggested format for including the above information on the plans has been completed as an example. See page 2 of this building newsletter. A clean copy of the suggested format has also been attached.

IV. Final Special Inspection Report

The owner or the architect or engineer of record, acting as the owner's agent, must complete and sign a statement certifying satisfactory completion of work requiring special inspection. This statement must be submitted to the Field Inspection Services Division of the Development Services Department. A suggested format has been attached to this building newsletter.

V. Structural Observation Program

- A. When structural observation is required by Section B, the inspection program shall name the individuals or firms who are to perform structural observation and describe the stages of construction at which structural observation is to occur.
- B. Structural observation shall be provided in Seismic Zone 3 or 4 when one of the following conditions exists:
 - 1. The structure is defined in UBC Table 16-K as Occupancy Category I, II or III, or

- 2. The structure is required to comply with UBC Section 403, or
- 3. When so designated by the architect or engineer of record, or
- 4. When such observation is specifically required by the building official.

The owner shall employ the engineer or architect responsible for the structural design, or another engineer or architect designated by the engineer or architect responsible for the structural design, to perform structural observation as defined in UBC Section 220. Observed deficiencies shall be reported in writing to the owner's representative, special inspector, contractor and the building official. The structural observer shall submit to the building official a written statement that the site visits have been made and identifying any reported deficiencies which, to the best of the structural observer's knowledge, have not been resolved.

Summary of Special Inspection

1 Concrete	13.1 Verify soil conditions are substantially in conformance with the soil investigation report
2 Bolts installed in concrete	13.2 Verify that foundation excavations extend to proper depth and bearing strata
3 Concrete moment-resisting space frame	13.3 Provide soil compaction test results, depth of fill, relative density, bearing values
4 Reinforcing steel and prestressing steel	13.4 Provide soil expansion test results, expansion index, recommendations for foundations, on-grade floor slab design for each building site
5.1 All structural welding	14 Smoke control system
5.2 Weld testing ductile moment-resisting steel frame	15 Special cases (describe)
5.3 Welding reinforcing steel	16 Off-site fabrication of building components
6 High-strength bolting	17 Other special inspections as required by designer
7 Structural masonry	
8 Reinforced gypsum concrete	
9 Insulating concrete fill	
10 Spray-applied fireproofing	
11 Deep foundations (piling, drilled & caissons)	
12 Shotcrete	

(Use additional sheets as needed to provide a comprehensive list)

No.	Description of Type of Inspection Required, Location, Remarks, etc.	Design Strength
1	ALL CAST-IN-PLACE CONCRETE SHEET S1, GENERAL NOTE	SHEAR WALLS 5000 PSI
		CONCRETE FILL OVER DECKING 4000 PSI
		FOOTINGS, GRADE BEAMS 3000 PSI
5.1	STEEL FRAMES SHEETS S1.1, S2.1, S2.14	E-70XX
	GENERAL NOTES: STRUCTURAL STEEL, NOTES #4 AND #5	
5.1	ALL STRUCTURAL FIELD WELDING	
16	SHOP WELDING	
	NOTE: SEE BUILDING NEWSLETTER FOR OFF-SITE FABRICATION. ALL SHOPS MUST BE APPROVED BY THE CITY OF SAN DIEGO FIELD INSPECTION SERVICES PRIOR TO COMMENCING ANY FABRICATION.	
	STRUCTURAL STEEL SHEET, SHEET S1.1, S4.1, S4.3	E70XX
	DECK WELDING, SHEET S1.1, DET. 14/S3.1	E70XX
7	MASONRY, RET. WALL DET. 5/S4.2	F'm=1500 psi
4	PLACEMENT OF REINFORCING STEEL AT CONCRETE, SHEET S2.1, DET. 10/S3.1, 11S3.1 GRADE BEAMS AND CAISSONS	Fy=60 ksi
10	STEEL COLUMNS, BEAMS AND DECKING IDENTIFIED ON PLAN SHEET S2.1	
13.1	SOIL ENGINEER TO VERIFY CONDITIONS AND DEPTH OF FOUNDATIONS AND PROVIDE COMPACTION REPORT.	2000 psf
13.2	SOILS REPORT BY XYZ GEOTECHNICAL AND SOILS ENGINEERING INC. REPORT NO. 90-89112, JANUARY 15, 1995	
17	EPOXY, ADHESIVE ANCHOR INSTALLATION, DET. 18/S4.1, ICBO 9999	

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- c. The special inspectors must be certified by the City of San Diego to perform the type of inspection specified.
- Exceptions:
 - 1. Soils inspections by the soils engineer of record.
 - 2. Smoke Control System, by the Mechanical engineer of record.
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- d. It is the responsibility of the contractor to notify the special inspector or inspection agency at least one working day prior to performing any work that requires special inspection.
- e. Specially inspected work that is installed or covered without the approval of the City Inspector is subject to removal or exposure.

**FINAL REPORT FOR
SPECIAL INSPECTION AND MATERIAL TESTING**

DATE: _____/_____/_____

TO: Building Official
City of San Diego
Development Services Department
Field Inspection Division
4995 Murphy Canyon Road, Suite 200
San Diego, CA 92123

SUBJECT: **SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION
AND MATERIAL TESTING**

PERMIT NO. _____

PROJECT ADDRESS: _____

I declare under penalty of perjury that, to the best of my knowledge, all the work requiring special inspection, material sampling and testing, including the off-site fabrication of building components for the structure/s constructed under the subject permits is in conformance with the approved plans, the inspection and observation program and other construction documents, and the applicable workmanship provisions of the Uniform Building Code.

Executed on this _____ day of _____ / _____.

MONTH

YEAR

Comments: _____

A. If the inspection services were provided by an approved material testing laboratory or special inspection agency:

TESTING LABORATORY OR SPECIAL INSPECTION AGENCY: _____

ADDRESS: _____

RESPONSIBLE MANAGING ENGINEER OF THE TESTING LABORATORY OR SPECIAL INSPECTION AGENCY:

NAME (PRINT OR TYPE): _____

State of California Registration Number: _____ **Expiration Date:** _____

B. If the inspection services were provided by an independent certified inspector:

SPECIAL INSPECTOR'S NAME (PRINT OR TYPE): _____

REGISTRATION NUMBER: _____

SIGNATURE: _____

Note: 1: At your option this form may be stored electronically and reproduced on your company's letterhead.

(Revised 11/95)