



Town of Fountain Hills
Building Safety Department
Special Inspection and Testing Schedule

Project Name: _____ Date: _____

Project Address: _____ Bldg. Permit #: _____

Special Inspector or Agency _____ Phone: _____

In addition to the regular inspections required by International Building Code (IBC) Section 110, the owner or design professional in responsible charge, acting as the owner's agent, shall employ one or more special inspectors who shall provide inspections during construction on the types of work listed herein. For exceptions and detailed information refer to the Building Code Chapter on Structural Tests and Inspections and the referenced recognized standards.

- Concrete.** During the taking of test specimens and placing of reinforced concrete: Ref.: ASTM C 94, ACI 318
 - Plant Inspection – ACI 318
 - Yield, Wt. Per Cu. Ft. – ASTM C 138
 - Comp. Test Specimens – ASTM C 31
 - Air Content – ASTM C 138; C 173 or C231
 - Comp. Tests – ASTM C 39
 - Slump –ASTM C 143
 - Sampling Fresh Concrete – ASTM C 172
 - Temperature – ASTM C 1064
- Bolts Installed in Concrete.** Prior to and during the placement of concrete around bolts when allowable stress increases are utilized.
- Special Moment-Resisting Concrete Frame.** For moment frames resisting design seismic loads in structures, the special inspector shall provide reports to the responsible structural designer and shall provide continuous inspection of the placement of the reinforcement and concrete
- Reinforcing Steel and Prestressing Steel Tendons.** Ref.: ACI 318
 - During all stressing and grouting of tendons in prestressed concrete
 - During placing of reinforcing steel and prestressing tendons for all concrete required to have special inspection by Item 1.
- Structural Welding.** During the welding of any member or connection that is designed to resist loads and forces required by code. Ref.: AWS D1, ASTM A 6 or A 568
 - Special Moment-Resisting Steel Frames. During the welding of special moment-resisting steel frames including nondestructive testing as required elsewhere in the building code. Ref.: AWS D1.1, D1.3
 - Welding of Reinforcing Steel. During the welding of reinforcing steel. Ref.: AWS D1.4, ACI 318
- High Strength Bolting.** The inspection of high-strength A-325 and A-490 bolts shall be in accordance with recognized standards and Specification for Structural Joints using ASTM A 325 or A 490 Bolts-

Load and Resistance Factor Design, Research Council of Structural Connections, Section 1701.5, Item 6.
Ref.: AISC ASD Sec. A 3.4, AISC LRFD Sec. A3.3, AISC LRFD Sec. M2.5

- Structural Masonry.** For masonry other than fully grouted open-end hollow unit masonry, during preparation and taking of required prisms or test specimens, placing of all masonry units, placement of reinforcement, inspection of grout space, immediately prior to closing of cleanouts, and during all grouting operations. ACI 530, ASCE 5, ASCE 6, TMS 402, TMS 602
 - Reinforced Gypsum Concrete.** When cast-in-place Class B gypsum concrete is being mixed and placed.
 - Insulating Concrete Fill.** During the application of insulating concrete fill when used as part of a structural system.
 - Spray-Applied Fire-Resistive Materials.** As required by International Building Code (IBC) Chapter 17 and the standards referenced therein. Ref.: ASTM E 605
 - Pilings, drilled piers and caissons.** During driving, and testing of piles and construction of cast-in-place drilled piles or caissons. See items 1 and 4 for concrete and reinforcing steel inspection.
 - Shotcrete.** During the taking of test specimens and placing of all shotcrete and as required by Chapter 19 of the Building Code. ACI 318
 - Special grading, excavation and filling.** During earth-work excavations, grading and filling operations, inspection to satisfy requirements of IBC Chapter 18.
 - Smoke Control Systems**
 - During erection of ductwork and prior to concealment for the purposes of leakage testing and recording of device location.
 - Prior to occupancy and after sufficient completion for the purposes of pressure difference testing, flow measurements, and detection and control verification.
 - Structural Epoxies.** During the placement of structural epoxies used to resist structural loads and forces required by the Building Code, or as required by the Building Official.
 - Structural Wood.**
 - Shear nailing inspection.
 - Prefabricated and/or field fabricated assembly inspection.
 - Component testing and sampling.
 - Exterior Insulation and Finish Systems (EIFS).** During the application of all EIFS systems.
 - Special Cases.** Work that, in the opinion of the building official involves unusual hazards or conditions.
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- Structural Observation Required.** Structural observation shall be required when one of the following conditions exists:
 - The structure is defined as Occupancy Category I, II, or III
 - The structure is required to comply with the high-rise requirements of the building code.
 - When so designated by the design professional in responsible charge
 - When observation is specifically required by the building official for unusual lateral force-resisting structures or irregular structures as defined in the building code.

CONTRACTOR RESPONSIBILITIES

In addition to the requirements prescribed under IBC Ch. 17, the following constitute the duties and responsibilities of the contractor.

1. **Special Inspector Notification** – The contractor is responsible for notifying the special inspector or agency regarding individual inspections for items listed on the attached schedule *and* as noted on the building department approved plan. Adequate notice must be provided so that special inspections can be scheduled and so that the special inspector has time to become familiar with the project.
2. **Provide Access to Approved Plans** – The contractor is responsible for providing the special inspector access to building department approved plans at the job site.
3. **Retain Special Inspection Records** – The contractor is responsible for retaining at the job site, all special inspection records submitted by the special inspector, and providing these records for review by the building official upon request.
4. **Correct Nonconformities** – The contractor is responsible for correcting all nonconformities to the satisfaction of the design professional in responsible charge and the building official.

BUILDING DEPARTMENT RESPONSIBILITIES

1. **Approve Special Inspections** – The building official must approve all special inspectors and special inspection requirements.
2. **Monitor Special Inspections** – Work requiring special inspection and the performance of special inspectors will be monitored by the Building Official. Building Official approval, in addition to that of the special inspector, must be obtained prior to placement of concrete or the concealment of other work
3. **Issuance of Certificate of Occupancy** – The building official may issue a Certificate of Occupancy after all special inspection reports and the final report have been submitted and approved. *Occupancy prior to issuance of a Certificate of Occupancy is prohibited.*

OWNER RESPONSIBILITIES

The project owner or owner’s agent must fully fund all special inspection services as required by the building official.

DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE RESPONSIBILITIES

The design professional in responsible charge shall include all special inspection requirements, including special inspections required under a products third party testing and/or listing, on the plans and specifications.

ACKNOWLEDGEMENTS

I have read and agree to the terms and conditions of this agreement.

Owner: _____ By: _____ Date: _____

Contractor: _____ By: _____ Date: _____

Special Inspector/
Agency: _____ By: _____ Date: _____

APPROVED BY THE TOWN OF FOUNTAIN HILLS, DEVELOPMENT SERVICES

By: _____

Date: _____