



Franklin County, Virginia

STATEMENT OF SPECIAL INSPECTIONS

DATE: _____

PROJECT TITLE: _____

PROJECT ADDRESS: _____

BUILDING PERMIT #: _____

DESIGN PROFESSIONAL in RESPONSIBLE CHARGE: _____

This **Statement of Special Inspections** is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This **Statement of Special Inspections** encompass the following disciplines:

- Structural
- Mechanical/Electrical/Plumbing
- Architectural
- Other: _____

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the **immediate** attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.

A **Final Report of Special Inspections** documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the General Contractor (GC).

Interim Report Frequency: _____ or per attached schedule.

Prepared by:

(type or print name)

Signature _____ Date _____

Design Professional Seal

Owner's Authorization:		Building Official's Acceptance:	
Signature	Date	Signature	Date



Franklin County, Virginia

STATEMENT OF SPECIAL INSPECTIONS

Schedule of Inspection and Testing Agencies

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

- Soils and Foundations
- Cast-in-Place Concrete
- Precast Concrete
- Masonry
- Structural Steel
- Cold-Formed Steel Framing
- Spray Applied Fire Resistant Material
- Wood Construction
- Exterior Insulation and Finish System
- Mechanical & Electrical Systems
- Architectural Systems
- Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. Special Inspection Coordinator		
2. Inspector		
3. Inspector		
4. Testing Agency		
5. Testing Agency		
6. Other		

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.



Franklin County
A Natural Setting for Opportunity

Franklin County, Virginia

STATEMENT OF SPECIAL INSPECTIONS

QUALITY ASSURANCE PLAN

IBC sections 1705 and 1706 require quality assurance plans to be submitted for certain seismic and/or wind requirements. The wind requirements are for higher wind regions and would not typically apply to projects located in Franklin County. Seismic conditions in this locality often do result in the need for a quality assurance plan (see section 1705.1). Both plans are included below for your convenience.

Quality Assurance for Seismic Resistance

Seismic Design Category

Quality Assurance Plan Required (Y/N)

Description of seismic force resisting system and designated seismic systems:

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust)

Wind Exposure Category

Quality Assurance Plan Required (Y/N)

Description of wind force resisting system and designated wind resisting components:

Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.



Franklin County, Virginia

STATEMENT OF SPECIAL INSPECTIONS

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if requested.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge, or Franklin County Building Safety Office deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the *Agency Number* on the Schedule.

Registered Design Professionals

PE/SE	Structural Engineer – a licensed SE or PE specializing in the design of building structures
PE/GE	Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
PE/FPE	Fire Protection Engineer - a licensed PE specializing in design of fire protection systems *
PE/ME	Mechanical Engineer - a licensed PE specializing in design of mechanical systems *
EIT	Engineer-In-Training – a graduate engineer who has passed Fundamentals of Engineering exam

American Concrete Institute (ACI) Certification

ACI-CFTT	Concrete Field Testing Technician – Grade 1
ACI-CCI	Concrete Construction Inspector
ACI-LTT	Laboratory Testing Technician – Grade 1&2
ACI-STT	Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWI	Certified Welding Inspector
AWS/AISC-SSI	Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification

ASNT	Non-Destructive Testing Technician – Level II or III
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International Code Council (ICC) Certification

ICC-SMSI	Structural Masonry Special Inspector
ICC-SWSI	Structural Steel and Welding Special Inspector
ICC-SFSI	Spray-Applied Fireproofing Special Inspector
ICC-PCSI	Pre-stressed Concrete Special Inspector
ICC-RCSI	Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT	Concrete Technician – Levels I, II, III & IV
NICET-ST	Soils Technician - Levels I, II, III & IV
NICET-GET	Geotechnical Engineering Technician - Levels I, II, III & IV

Exterior Design Institute (EDI) Certification

EDI-EIFS	EIFS Third Party Inspector
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Note to A/E: Indicate in the "Y/N" column the special inspections required for this project.

2012 VUSBC SPECIAL INSPECTIONS

MATERIAL/ACTIVITY	TYPE OF TEST/INSPECTION	Y/N	EXTENT/ REFERENCE *	AGENCY # (QUALIF.)	SCOPE
GENERAL					
Pre-construction Conference	Meeting with parties listed to discuss Special Inspection procedures	Y	Roanoke County SI Guidelines	ALL agencies	Schedule by SI w/ Contractor prior to commencement of work
QUALITY ASSURANCE					
Seismic	Quality Assurance Plan	Y	1705.3	PE/SE/ME	Seismic Classification (C,D,E,F)
Wind	Quality Assurance Plan	Y	1705.4	PE/SE/ME	Wind Speed > 110 mph
FOUNDATIONS					
Soil	Compaction of Fill Materials	Y	Specs, 1704.7, C	PE/GE	Perform sieve tests and modified Proctor tests of each source of fill material, per ASTM standards Inspect placement, lift thickness and compaction of controlled fill Test density of lift of fill by nuclear meth. Verify extent and slope of fill placement
Soil	Bearing at bottom of footing excavations	Y	Specs/Const. , C	PE/GE	Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill
Soil / Rock	Bottom of Caissons	Y	1810.7, P	PE/GE	
Piles	Driving records, tip & cutoff elevations	Y	1704.8,1808,1809,C	PE/GE	Inspect and log pile driving operations Record pile driving resistance and verify compliance with driving criteria Inspect piles for damage from driving & plum. Verify pile size, length and accessories Inspect installation of drilled pier foundations Verify pier diameter, bell diamter, lengths, embedment into bedrock and suitability
Piles	Load Test	Y	Specs, 1808.2.8.3,C	PE/GE	Monitor pile load test
Reinf. Bars	Size & placement in foundations	Y	ACI, Specs, C	ACI CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinfor- ing bars are free from oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters
Piers	Size & placement of Reinf. Bars	Y	1704.9, C	ACI CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinfor- ing bars are free from oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters

Note to A/E: Indicate in the "Y/N" column the special inspections required for this project.

Other					
CONCRETE CONSTRUCTION					
Concrete	Ready-mix Plant quality control		Specs, ACI, 1704.4	ACI CCI ICC-RCSI	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design, as permitted by ASTM C94.
Concrete	Mix design tests and certificates		Specs, 1704.4.1,P		See Notes 1, 2, 3-Submit appropriate cert.
Reinf. Steel	Shop drawings of reinforcing steel		Specs, Note 1, 2,3	PE/SER	Verify compliance with specified design loads and specifications; verify on-site conditions match shop drawing details
Reinf. Steel	Placement of reinforcing steel		1704.4, C	ACI CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free from oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters
Reinf. Steel	Welding		1704.4, P	AWS-CWI	Visually inspect all reinforcing steel welds. Verify weldability of reinforcing steel, Inspect preheating of steel when required
Formwork	Design, placement & shoring		1906.1, ACI 318 VUSBC 1704.4 P	ACI CCI ICC-RCSI	Visually inspect placement, bracing, and general construction of formwork; review design of formwork
Formwork	Removal and reshoring		1906.2, VUSBC 1704.4 P	ACI CCI ICC-RCSI	Ensure implementation of shoring removal schedule is established and controlled
Concrete	Sampling and Testing		1704.4, 1905.6, C	ACI-CFTT ACI-STT	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064)
Concrete	Mix proportions & Mix on Delivery Tickets		1704.4, P	ACI CCI ICC-RCSI	Verify use
Concrete	Placement procedures		1905.9, 1905.10, C	ACI CCI ICC-RCSI	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated
Concrete	Curing temperatures & techniques		1905.11, P	ACI CCI ICC-RCSI	Inspect curing, cold weather & hot weather protection procedures
Prestressed	Prestressing procedures & forces		1704.4, C	ICC-PCSI	Inspect placement, stressing, grouting and protection of post-tensioning tendons. Verify that tendons are correctly positioned, supported, tied, and wrapped. Record tendon elongations

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Prestressed	Shop drawings of prestressed units		Specs	PE/SE	Verify compliance with specified design loads and specifications; verify on-site conditions match shop drawing details
Precast	Plant Certification/Quality control of Manufacturer <input type="checkbox"/> Fabricator Exempt		1704.2, P	ACI CCI ICC-RCSI	Review plant operations and quality control procedures
Precast	Shop drawings of precast		Specs	PE/SER	Verify compliance with specified design loads and specifications; verify on-site conditions match shop drawing details
Precast	Erection of precast		1704.4, P	PE/SE	Inspect erection of precast concrete including member configuration, connections, welding and grouting
Precast	Inspection of Connections		1704.4, P	PE/SE	Inspect size, positioning and embedment of connections. Inspect concrete placement and consolidation around anchors
Anchor Rods	Anchors cast in concrete		1912, P	ACI CCI ICC-RCSI	Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors
Other					
MASONRY CONSTRUCTION Required Inspection Level: 1 2 (IBC section 1704.5.1, 1704.5.2 and 1704.5.3)					
Material Certification	Certificates, Tests & technical data		1704.5, 1708.1 ACI 530.1	PE/SE	For clay and/or concrete masonry-submittal and field review meeting all specifications Fire Resistant rated assemblies included
Reinf. Steel	Shop Drawings		Specs, 1704.5	PE/SER	Verify compliance with specified design loads and specifications; verify on-site conditions match shop drawing details
Reinf. Steel	Condition, Size, Location, Spacing of Reinf Steel		1704.5.ACI 530.1,C	ICC-SMSI AWS-CWI	Inspect size, location, condition, spacing and lapping or reinforcing steel Inspect welding of reinforcing steel
Mixing of Mortar and Grout	Proportioning & Mixing		1704.5.ACI 530.1,C	ICC-SMSI	Inspect proportioning, mixing, and retempering of mortar and grout
Installation of Masonry	Application & Installation		1704.5.ACI 530.1,P	ICC-SMSI	Inspect size, layout, bonding and placement of masonry units
Mortar Joints	Application & Installation		1704.5.ACI 530.1,P	ICC-SMSI	Inspect construction of mortar joints including tooling and filling of head joints
Prestressed Masonry	Application & Installation		1704.5.ACI 530.1,P	ICC-SMSI	Inspect placement, anchorage and stressing of prestressing bars
Grouting Operations	Application & Installation		1704.5.ACI 530.1,C	ICC-SMSI	Inspect placement and consolidation of grout. Inspect masonry clean-outs for high-lift grouting
Weather Protection	Cold, Hot & Rainy Weather protection investigation		1704.5.ACI 530.1,P	ICC-SMSI	Inspect curing, cold weather & hot weather protection procedures. Verify that wall cavities are protected against precipitation
Evaluation of Masonry Strength	Testing/review of strength		1704.5.ACI 530.1,P	ICC-SMSI	Test compressive strength of mortar (ASTM C780) and grout specimen samples (ASTM C1019). Test compressive strength per unit strength method (ASTM C140)

Note to A/E: Indicate in the "Y/N" column the special inspections required for this project.

Anchors & Ties	Inspection of anchorages		1704.5.ACI 530.1,P	ICC-SMSI	Inspect size, location, spacing and embedment of dowels, anchors, and ties
Seismic	Reinforcing (Seismic Design Cat. "C")		1704.8.1, P	PE/SE	
Other					
STEEL CONSTRUCTION					
Steel Member Fabricator	Plant Certification/Quality control of Manufacturer <input type="checkbox"/> Fabricator Exempt		1704.2, P	AWS/AISC-SSI ICC-SWSI	Review shop fabrication and quality control procedures
Material Certification	Mfr's Certificate of Compliance Structural Steel		1704.3, P	AWS/AISC-SSI ICC-SWSI	Review certified mill reports and identification markings for wide-flange shapes
Material Certification	Mfr's Certificate of Compliance Bolts, nuts, washers & connectors		1704.3, P	AWS/AISC-SSI ICC-SWSI	Review certified mill reports and identification markings for high-strength bolts, nuts and welding electrodes
Open Web Steel Joists	Inspection of joists installation		1704.3, P	AWS/AISC-SSI ICC-SWSI	Inspect installation, field welding and bridging of joists
Steel Framing Drawings	Shop drawings review		Specs	PE/SER	Verify compliance with specified design loads and specifications; verify on-site conditions match shop drawing details
Erection-Bolting	Installation of High-strength Bolts		1704.3.3, AISC LRFD, P	AWS/AISC-SSI ICC-SWSI	Inspect installation and tightening of high-strength bolts. Verify that splines have separated from tension control bolts. Verify proper tightening sequence.
Erection-Bolting	Installation of Slip-critical Bolts		1704.3.3, AISC LRFD, C	AWS/AISC-SSI ICC-SWSI	Inspect installation and tightening of high-strength bolts. Verify that splines have separated from tension control bolts. Verify proper tightening sequence. Continuous inspection of bolts in slip critical connec.
Erection-Welding	Welding		1704.3.1, 1707.2 AWS, C	AWS-CWI ASNT	Visually inspect all welds. Inspect pre-heat, post-heat and surface preparation between passes. Verify size and length of fillet weld Ultrasonic testing of all full-penetration welds
Erection-Shear Connections	Steel Framing and Connections		1704.3.2, P	AWS/AISC-SSI ICC-SWSI	Inspect size, number, positioning and welding of shear connectors. Inspect studs for full 360 degree flash. Ring test all shear connectors with a 3lb hammer. Bend test all questionable studs to 15 degrees
Structural Details	Inspection of structural details		1704.3.2, P	PE/SE	Inspect steel frame for compliance with structural drawings, including bracing, member configuration and connection details

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Metal Decking	Inspection of metal deck connections		1704.3, P	AWS-CWI	Inspect welding and side lap fastening of metal roof and floor deck
Other					
COLD-FORMED STEEL FRAMING					
Member Sizes			1707.4, P		
Material Thickness			1707.4, P		
Material Properties			1707.4, P		
Mechanical Connections	Fastening per code and drawings		1707.4, P		
Welding			1707.4, P		
Framing Details			1707.4, P		
Trusses	Shop drawings		1707.4, P	PE/SER	Verify compliance with specified design loads and specifications; verify on-site conditions match shop drawing details
Permanent Truss Bracing	Truss placement, fastening & anchorage		1707.4, P		
Other			1707.4, P		
WOOD CONSTRUCTION					
Wood Pre-Fabrication	Plant Certification/Quality control of Manufacturer <input type="checkbox"/> Fabricator Exempt		1704.2, P		Inspect shop fabrication and quality control procedures for wood truss plant
Material Grading	Grade stamp		Specs		
Connections	Fastening per code and drawings		Specs, 1704.6, P		
Framing and Details					
Diaphragms and Shearwalls			1704.6.1, P		Inspect size, configuration, blocking, and fastening of shearwalls and diaphragms. Verify panel grade and thickness
Trusses	Shop drawings		Specs	PE/SER	Verify compliance with specified design loads and specifications; verify on-site conditions match shop drawing details
Trusses	Truss placement, fastening & anchorage		Specs, 1704.6, P		
Laminates	Shop drawings		Specs	PE/SER	Verify compliance with specified design loads and specifications; verify on-site conditions match shop drawing details
Laminates	Identification per shop drawings		Specs		

Note to A/E: Indicate in the "Y/N" column the special inspections required for this project.

Plywood	Grade stamp & thickness		Specs, 1704.6.1		
Other					
SPRAY-APPLIED FIRE RESISTANT MATERIAL (SFRM)					
Material Specifications	Manufacturer's data		Specs	PE/SE/FPE	
Laboratory Tested Fire Resistance Design			1704.10.1	ICC-SFSI	Review Third-party fire resistive design assembly (eg. UL, FM, etc.) for each rated beam, column, or assembly
Schedule of Thickness			1704.10.2, P	ICC-SFSI	Review approved thickness schedule
Surface Preparation	Surface Conditions		1704.10.3, P	ICC-SFSI	Inspect surface preparation of steel prior to application of SFRM
Application			1704.10.4, P	ICC-SFSI	Inspect application of SFRM
Curing and Ambient Condition			1704.10.5, P	ICC-SFSI	Verify ambient temperature and ventilation is suitable for application and curing of SFRM
Thickness			1704.10.3,Spec, P	ICC-SFSI	Test thickness of SFRM (ASTM E605). Perform a set of thickness measurements for every 1,000 SF of floor and roof assemblies and on not less than 25% of rated beams and columns
Density			1704.10.4,Spec, P	ICC-SFSI	Test density of SFRM material (ASTM E605)
Bond Strength			1704.10.5,Spec, P	ICC-SFSI	Test the cohesive/adhesive bond strength of SFRM (ASTM E736). Perform not less than one test for each 10,000 SF.
Other			Specs, P		
MASTIC and INTUMESCENT FIRE-RESISTIVE COATINGS					
Application	Inspect mastic and intumescent fire-resistant coatings applied to structural elements and decks, in accordance with AWCI 12-B.		1704.11, AWCI 12-B, P	ICC-SFSI	Verify thickness and application of coatings prescribed in fire-resistant design.
EXTERIOR INSULATION and FINISH SYSTEMS (EIFS)					
Material Submittal			Specs	EDI-EIFS	
Condition of Substrate			Specs	EDI-EIFS	
Application of Foam Plastic Board			Specs, 1704.12, P	EDI-EIFS	
Application of Coatings			Specs, 1704.12, P	EDI-EIFS	
Application of Mesh			Specs, 1704.12, P	EDI-EIFS	
Ambient Condition and Curing			Specs, 1704.12, P	EDI-EIFS	

Note to A/E: Indicate in the "Y/N" column the special inspections required for this project.

Flashing and Joint Details			Specs, 1704.12, P	EDI-EIFS	
Sealants/Caulks			Specs, 1704.12, P	EDI-EIFS	
Other					
SMOKE CONTROL					
Ducts	Device location and air duct leakage		1704.14, P	PE/FPE/ME	
System	Pressure difference, flow measurements & detection testing		1704.14, P	PE/FPE/ME	
Controls	Activation sequence		1704.14, P	PE/FPE/ME	
Other					
ARCHITECTURAL/MECHANICAL/ELECTRICAL SYSTEMS					
Components	Storage Racks		1707.6, ASCE 7, P		
Wall Panels & Veneers	Architectural Exterior Cladding		1707.7, ASCE 7, P		
Suspended Ceilings	Periodic Anchorage Inspection		1707.6, ASCE 7, P		
Access Floors	Periodic Anchorage Inspection		1707.6, ASCE 7, P		
Partitions	Periodic Anchorage Inspection		1707.7, ASCE 7, P		
Mechanical Systems	Mechanical, HVAC & Piping		1707.8, 1708.5, P		
Electrical Systems	Emergency & Standby Power Sys.		1707.8, 1708.5, P		
Fire Wall Assemblies	Manufacturer's Data		Specs		
Fire Wall Assemblies	Placement of Materials		Specs		
Other					
EARTH RETAINING STRUCTURES >10 FT. UNBALANCED FILL					
Footing, Foundation	Inspect placement of foundation system		Specs, County Pol.	PE/SE/GE	
Backfill Information	Confirm type of soil and height		Specs, County Pol.	PE/SE/GE	
Guard Rail	Load Test		Specs, County Pol.	PE/SE/GE	
Wall Geometry	Verify dimensions of wall per appr. Plans		Specs, County Pol.	PE/SE/GE	
Compaction Testing	Compaction of Fill Materials		Specs, County Pol.	PE/SE/GE	
Layout Information			Specs, County Pol.	PE/SE/GE	
Other					
SPECIAL CASES					
Alternative Materials & Sys.	As requested by Building Official, review and installation		1704.13		
System Commissioning	Commissioning Systems for LEED certified projects, etc.				
Other					

Note:

Note to A/E: Indicate in the "Y/N" column the special inspections required for this project.

1. Fabricator, supplier, ready-mixed plant or other production plant shall provide certificates from an approved independent inspection, testing or quality assurance agency attesting that the plant meets at least one of the following criteria:
 - a. The plant is a certified production plant meeting the quality assurance standards of a recognized national standards organization for that product.
 - b. The plant maintains an agreement with an independent inspection or quality assurance agency to conduct periodic in-plant quality assurance inspections, where frequency is no less than 6 months.
 - c. The plant has an in-shop quality assurance inspection program by an independent testing or quality assurance agency for the work/product to be provided on this project.
2. A/E shall review fabricator/supplier/producer certificates and shop drawings for conformance with appropriate standards of practice and quality assurance.
3. Contractor/supplier shall submit manufacturer's certificates of compliance and shop drawings for the materials/products.
4. Special inspection personnel/firm(s) selected to perform smoke control commissioning must have experience in fire protection engineering, mechanical engineering, and certification as an air balancer.
5. References to Agency/personnel qualifications that are already listed are considered to be a minimum by the Building Official, unless otherwise specifically approved. A Registered Design Professional (RDP), i.e., Arch./PE is considered to meet any of the minimum certification requirements listed above.
6. Unless otherwise noted, the reference numbers listed above refer to the 2006 VUSBC & 2006 IBC.
7. Notations to Periodic (P) or Continuous (C) inspections indicate frequency of certain inspections.