

Statement of Structural Tests and Special Inspections

Hickory Solar
Special Inspection Requirements

This Statement of Structural Tests and Special Inspections (STSI) is being submitted as required by Chapter 17 of the 2015 International Building Code (IBC). It includes the following:


1. Concrete
2. Soils
3. Qualification requirements for Inspectors and Testing Technicians
4. Listing of Required Structural Tests and Special Inspections

The Construction Contractor's Quality Control Supervisor will provide copies of all special inspection reports and associated documentation to the Building Official. These tests and inspections are in addition to the inspections required by Virginia Uniform Statewide Building Code (VUSBC) section 113. The special inspection does not waive the requirement for inspections by the building inspector. The Contractor is responsible for scheduling all inspections required by the VUSBC with the Bureau of Permits and Inspections. The Contractor will be required to correct all deficiencies discovered in the Special Inspection and Structural Testing program.

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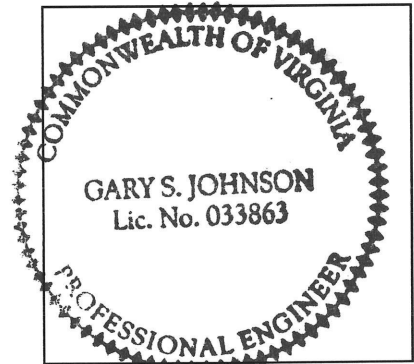
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Signature

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Date



PE or SE Stamp

Qualification Requirements for Inspectors and Testing Technicians

PE/SE Structural Engineer – licensed PE or SE specializing in the design of buildings and structures

American Concrete Institute (ACI) Certification

ACI-CCSI Concrete Construction Special Inspector

ACI-LTT Concrete Laboratory Testing Technician Level 1 or 2

ACI-STT Concrete Strength Testing Technician

ACI-FTT Concrete Field Testing Technician – Grade I

Structural Testing and Special Inspection Requirements

Concrete Construction, IBC Section 1705.3

The special inspections for the concrete construction shall meet the following requirements:

Work Type	Inspection Frequency	IBC Section	Other Applicable Standard	Required Qualifications
Inspection of reinforcing steel, including proper size and placement.	Prior to concrete placement (periodic)	1908.4	ACI 318: Ch. 20, 25.2,25.3, 26.6.1-26.6.3	ACI-CCSI
Inspection of anchors either cast in concrete or post-installed in concrete	Prior to and following concrete placement (periodic)	-	ACI 318: 17.8.2	ACI-CCSI
Verify use of required design mix	Prior to concrete placement (periodic)	1904.1, 1904.2, 1908.2, 1908.3	ACI 318: Ch. 19, 26.4.3, 26.4.4	ACI-CCSI
Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Prior to concrete placement	1908.10	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	ACI-STT or ACI-LTT
Inspect concrete placement for proper application techniques.	During each concrete placement	1908.6, 1908.7, 1908.8	ACI 318: 26.5	ACI-CCSI
Verify maintenance of specified curing temperature and techniques.	During each concrete placement	1908.9	ACI 318: 26.5.3-26.5.5	ACI-CCSI

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.	During each concrete placement	-	ASTM C172, ASTM C31, ACI 318: 26.11.2	ACI-FTT
Inspect formwork for shape, location and dimensions of the concrete member being formed.	Prior to concrete placement	-	ACI 318: 26.11.1.2(b)	ACI-CCSI

Soils, IBC Section 1705.6

The special inspections for the inspection of soils shall meet the following requirements:

Work Type	Inspection Frequency	IBC Section	Other Applicable Standard	Required Qualifications
Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Prior to concrete placement (periodic)	-	-	PE/SE
Verify excavations are extended to proper depth and have reached proper material.	Prior to concrete placement (periodic)	-	-	PE/SE
Perform classification and testing of compacted fill materials.	Periodic	-	-	PE/SE
Verify use of proper materials, densities, and lift thickness during placement and compaction of compacted fill.	Continuous	-	-	PE/SE
Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	Prior to compacted fill placement (periodic)	-	-	PE/SE