Statement of Special Inspections

Project: *Wilbraham Fire Station*

Location: *2770 Boston Road, Wilbraham, MA*

Architect: *Tecton Architects, Inc.*

Design Professional in Responsible Charge: *Robert A. Johnson*

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 Contractor.

Interim Report Frequency: or ☐ per attached schedule.

Prepared by:

_____
(type or print name)

_____
Signature Date

Design Professional Seal

Owner's Authorization:

_____
Signature Date

Building Official's Acceptance:

_____
Signature Date

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 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**	*Johnson Structural Engineering* *Robert A. Johnson, P.E.*	*30 Faith Ave* *Auburn, MA. 01501* *508-832-3535* *rob@jsengineers.com*
2. Inspector	*Johnson Structural Engineering* *Robert A. Johnson, P.E.*	*30 Faith Ave* *Auburn, MA. 01501* *508-832-3535* *rob@jsengineers.com*
3. Inspector	*Johnson Structural Engineering* *Travis Alexander, E.I.T.*	*30 Faith Ave* *Auburn, MA. 01501* *508-832-3535* *travis@jsengineers.com*
4. Testing Agency	*To be announced*	*To be announced*
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.

Quality Assurance Plan

Quality Assurance for Seismic Resistance

Seismic Site Class	*D*

Description of seismic force resisting system and designated seismic systems:
The seismic force resisting system is comprised of ordinary steel moment frames.

Quality Assurance for Wind Requirements

Reference Wind Speed	*100 mph*
Wind Exposure Category	*C*

Description of wind force resisting system and designated wind resisting components:
The wind force resisting system is comprised of ordinary steel moment frames.

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 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.

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
EIT	Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination

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.

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	Prestressed 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

Other

Soils and Foundations

Item	Agency # (Qualif.)	Scope
1. Shallow Foundations	*2* *3* *4*	*The P.E./E.I.T. will make periodic site inspections.* *A certified testing agency is to perform periodic site visits and submit a field report to the P.E./E.I.T. and the local building inspector.*
2. Controlled Structural Fill	*4*	*A certified testing agency is to submit a report detailing the testing of the moisture content and compaction of the structural fill from each lift placement. The P.E./E.I.T. will be in charge of determining what shall be tested and the frequency of the testing during construction.*

Cast-in-Place Concrete

Item	Agency # (Qualif.)	Scope
1. Mix Design	*2* *3*	*The G.C. is to submit the mix design to the P.E./E.I.T. for approval.*
2. Material Certification	*2* *3*	*The G.C. is to submit a material certification to the P.E./E.I.T. for approval.*
3. Reinforcement Installation	*2* *3* *4*	*The P.E./E.I.T. will make periodic site inspections.* *A certified testing agency is to perform periodic site visits and submit a field report to the P.E./E.I.T. and the local building inspector.*
4. Anchor Rods	*2* *3* *4*	*The P.E./E.I.T. will make periodic site inspections.* *A certified testing agency is to perform periodic site visits and submit a field report to the P.E./E.I.T. and the local building inspector.*
5. Concrete Placement	*4*	*See attachment*
6. Sampling and Testing of Concrete	*4*	*See attachment*
7. Curing and Protection	*2* *3*	*The P.E./E.I.T. will make periodic site visits to visually inspect the curing and protection of the concrete and submit a field report to the local building inspector.*

Masonry

Required Inspection Level: ☐ 1 ☐ 2

Item	Agency # (Qualif.)	Scope
1. Material Certification	*2* *3*	*The G.C. is to submit shop drawings to the P.E./E.I.T. for approval.*
2. Mixing of Mortar and Grout	*2* *3*	*The G.C. is to submit mortar and grout mix designs to the P.E./E.I.T. for approval.*
3. Installation of Masonry	*2* *3* *4*	*The P.E./E.I.T. will make periodic site visits to visually inspect the installed masonry and submit a field report to the local building inspector.* *A certified testing agency is to perform periodic site visits and submit a field report to the P.E./E.I.T. and the local building inspector.*
4. Mortar Joints	*2* *3* *4*	*The P.E./E.I.T. will make periodic site visits to visually inspect the installed masonry and submit a field report to the local building inspector.* *A certified testing agency is to perform periodic site visits and submit a field report to the P.E./E.I.T. and the local building inspector.*
5. Reinforcement Installation	*2* *3* *4*	*The P.E./E.I.T. will make periodic site visits to visually inspect the installed reinforcement and submit a field report to the local building inspector.* *A certified testing agency is to perform periodic site visits and submit a field report to the P.E./E.I.T. and the local building inspector.*
6. Anchors and Ties	*2* *3* *4*	*The P.E./E.I.T. will make periodic site visits to visually inspect the installed masonry and submit a field report to the local building inspector.* *A certified testing agency is to perform periodic site visits and submit a field report to the P.E./E.I.T. and the local building inspector.*

Structural Steel

Item	Agency # (Qualif.)	Scope
1. Fabricator Certification/ Quality Control Procedures ☐ Fabricator Exempt	*2* *3*	*The fabricator is to submit their quality control procedures as per the specifications to the P.E./E.I.T. for approval.*
2. Material Certification	*2* *3*	*The G.C. is to submit shop drawings to the P.E./E.I.T. for approval.*
3. Bolting	*2* *3* *4*	*The G.C. is to submit shop drawings to the P.E./E.I.T. for approval.* *The P.E./E.I.T. will make periodic site visits to visually inspect the completed bolted connections and submit a field report to the local building inspector.* *A certified testing agency is to perform periodic site visits and submit a field report to the P.E./E.I.T. and the local building inspector.*
4. Welding	*2* *3* *4*	*The G.C. is to submit shop drawings to the PE/S for approval.* *The P.E./E.I.T. will make periodic site visits to visually inspect the completed welds and submit a field report to the local building inspector.* *A certified testing agency is to perform periodic site visits and submit a field report to the P.E./E.I.T. and the local building inspector.*
5. Structural Details	*2* *3* *4*	*The P.E./E.I.T. will make periodic site visits to visually inspect that the erection of the steel is in compliance with the intent of the contract documents.* *A certified testing agency is to perform periodic site visits and submit a field report to the P.E./E.I.T. and the local building inspector.*
6. Metal Deck	*2* *3* *4*	*The P.E./E.I.T. will make periodic site visits to visually inspect the installation of the steel deck.* *A certified testing agency is to perform periodic site visits to visually inspect the welding of the steel deck and submit a field report to the P.E./E.I.T. and the local building inspector.*
7. Other:	*2* *3*	*The P.E./E.I.T. will make a final site visit upon completion of the column erection, beam erection, and metal deck installation.*

Cold-Formed Steel Framing

Item	Agency # (Qualif.)	Scope
1. Member Sizes	*2* *3*	*The G.C. is to submit a stamped submittal of the cold-formed steel framing to the P.E./E.I.T. for approval. The stamped submittal should indicate the intent of the contract documents will be followed during construction.*
2. Material Thickness	*2* *3*	*The G.C. is to submit a stamped submittal of the cold-formed steel framing to the P.E./E.I.T. for approval. The stamped submittal should indicate the intent of the contract documents will be followed during construction.*
3. Material Properties	*2* *3*	*The G.C. is to submit a stamped submittal of the cold-formed steel framing to the P.E./E.I.T. for approval. The stamped submittal should indicate the intent of the contract documents will be followed during construction.*
4. Mechanical Connections	*2* *3*	*The G.C. is to submit a stamped submittal of the cold-formed steel framing to the P.E./E.I.T. for approval. The stamped submittal should indicate the intent of the contract documents will be followed during construction.*
5. Welding	*2* *3*	*The G.C. is to submit a stamped submittal of the cold-formed steel framing to the P.E./E.I.T. for approval. The stamped submittal should indicate the intent of the contract documents will be followed during construction.*
6. Framing Details	*2* *3* *4*	*The G.C. is to submit a stamped submittal of the cold-formed steel framing to the P.E./E.I.T. for approval. The stamped submittal should indicate the intent of the contract documents will be followed during construction.* *A certified testing agency is to perform a site visit upon completion of the installation to verify that intent of the contract documents was followed during construction. A report must be submitted to the P.E./E.I.T. and the local building official.*

JSE JOHNSON STRUCTURAL ENGINEERING, INC.
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Location: 2770 Boston Road, Wilbraham, MA
Architect: Tecton Architects, Inc.

Concrete Testing

- One composite sample shall be taken for each day's pour exceeding 5 cu yds, and one additional sample shall be taken for each additional 50 cu yds (or fraction thereof)
- Temperature, unit weight, air content, and slump shall be recorded for each sample. Reports shall be submitted to the Architect and Contractor within 48 hours of the sample.
- Two laboratory-cured cylinders representing each sample shall be tested (according to ASTM C-39) at 7 days, and two additional laboratory-cured cylinders shall be tested at 28 days.
- Two field-cured cylinders representing each sample shall be tested (according to ASTM C-39) at 7 days, and two additional field-cured cylinders shall be tested at 28 days.
- Written reports shall indicate the job name and number, the date time and temperature of the pour, the testing agency, as well as the strength and fracture type resulting from the test. Such reports shall be submitted to the Architect, Contractor, concrete manufacturer within 48 hours of test completion.
- When testing indicates concrete does not meet slump, air entrainment, or compressive strength specifications, the testing agency shall provide additional testing as indicated by the Architect.