

# Statement of Special Inspections

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Project: *Century Tire Buildings A and B*

Location: *195 Kennebec Street, Portland, ME*

Owner: *Vandelay Industries, LLC, 17 South Street, 3rd Floor, Portland, ME 04101*

APR 09 2015

Dept. of Building Inspections  
City of Portland Maine

Design Professional in Responsible Charge: *David J. Tetreault, P.E.*

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.

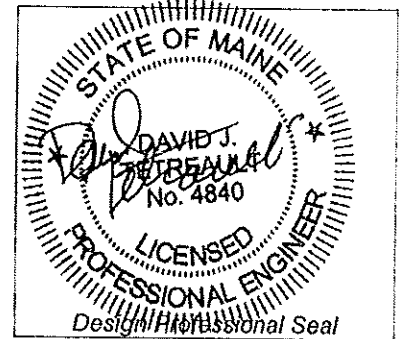
Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Interim Report Frequency: *Monthly*

or  per attached schedule.

Prepared by:

*David J. Tetreault, P.E.*  
(type or print name)



*David J. Tetreault*  
Signature

*04/07/15*  
Date

Owner's Authorization:

Building Official's Acceptance:

Signature

Date

Signature

Date

# Schedule of Inspection and Testing Agencies

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

- |                                                            |                                                                |
|------------------------------------------------------------|----------------------------------------------------------------|
| <input checked="" type="checkbox"/> Soils and Foundations  | <input type="checkbox"/> Spray Fire Resistant Material         |
| <input checked="" type="checkbox"/> Cast-in-Place Concrete | <input type="checkbox"/> Wood Construction                     |
| <input type="checkbox"/> Precast Concrete                  | <input type="checkbox"/> Exterior Insulation and Finish System |
| <input type="checkbox"/> Masonry                           | <input type="checkbox"/> Mechanical & Electrical Systems       |
| <input checked="" type="checkbox"/> Structural Steel       | <input type="checkbox"/> Architectural Systems                 |
| <input type="checkbox"/> Cold-Formed Steel Framing         | <input type="checkbox"/> Special Cases                         |

| Special Inspection Agencies       | Firm                                      | Address, Telephone                                                               |
|-----------------------------------|-------------------------------------------|----------------------------------------------------------------------------------|
| 1. Special Inspection Coordinator | <i>Structural Design Consulting, Inc.</i> | <i>2696 Lake Shore Drive<br/>Unit 130<br/>Gilford, NH 03249<br/>603-293-8038</i> |
| 2. Inspector                      | <i>Summit Geoengineering Services</i>     | <i>P.O. Box 7216<br/>Lewiston, ME 04243<br/>207 657-2866</i>                     |
| 3. Testing Agency                 | <i>S.W. Cole Engineering</i>              | <i>286 Portland Road<br/>Gray, ME 04039-9586<br/>(207) 657-2866</i>              |
| 4. Testing Agency                 | <i>R.W. Gillespie &amp; Associates</i>    | <i>86 Industrial Park Road, Suite 4<br/>Saco, ME 04072<br/>(207) 286-8008</i>    |
| 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

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## Special Inspections for Seismic Resistance

Seismic Design Category C

Special Inspections Required (Y/N) Y

*Description of seismic force resisting system and designated seismic systems:*

*Ordinary steel moment frames.*

*1705.3.1 Q/A plan is required for the seismic force resisting system. Q/A plan consists of Special Inspections of moment connections.*

*1705.3.2 refers to SDC D, E and F therefore a Q/A plan for designated seismic systems not required.*

*1705.3.3.*

*Q/A plan is required for the following:*

*Heating, ventilating and air-conditioning (HVAC) ductwork containing hazardous materials and anchorage of such ductwork.*

*Piping systems and mechanical units containing flammable, combustible or highly toxic materials.*

*Anchorage of electrical equipment used for emergency or standby power systems.*

*None of these mechanical conditions are present, therefore a Q/A plan for mechanical systems is not required*

## Special Inspections for Wind Requirements

Basic Wind Speed (3 second gust) 100 mph

Wind Exposure Category B

Special Inspections Plan Required (Y/N) N

The building is in wind exposure Category B with a 3-sec gust basic wind speed less than 120 mph therefore a quality assurance plan for wind is not required (IBC/2009 Section 1705.4)

## Statement of Responsibility

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

# 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 |

Other

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## Soils and Foundations

| Item                          | Req'd<br>Y/N | Agency #<br>(Qualif.) | Scope                                                                                                                                                                                                                                     |
|-------------------------------|--------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Shallow Foundations        | Y            | 2<br>(P.E.)           | <p><i>Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report.</i></p> <p><i>Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill</i></p> |
| 2. Controlled Structural Fill | Y            | 3 or 4<br>(NICET-ST)  | <p><i>Perform sieve tests (ASTM D422 &amp; D1140) and modified Proctor tests (ASTM D1557) of each source of fill material.</i></p> <p><i>Inspect placement, lift thickness and compaction of controlled fill.</i></p>                     |
| 3. Deep Foundations           | N            |                       |                                                                                                                                                                                                                                           |
| 4. Load Testing               |              |                       |                                                                                                                                                                                                                                           |
| 4. Other:                     |              |                       |                                                                                                                                                                                                                                           |

## Cast-in-Place Concrete

| Item                                | Req'd<br>Y/N | Agency #<br>(Qualif.) | Scope                                                                                                                                                                                                                                                                         |
|-------------------------------------|--------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Mix Design                       | Y            | 3 or 4<br>(NICET-CT)  | 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.                                                                                                             |
| 2. Material Certification           | N            |                       |                                                                                                                                                                                                                                                                               |
| 3. Reinforcement Installation       | Y            | 3 or 4<br>(NICET-CT)  | Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters |
| 4. Post-Tensioning Operations       | N            |                       |                                                                                                                                                                                                                                                                               |
| 5. Welding of Reinforcing           | N            |                       |                                                                                                                                                                                                                                                                               |
| 6. Anchor Rods                      | Y            | 3 or 4<br>(NICET-CT)  | Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.                                                                                                                                                          |
| 7. Concrete Placement               | Y            | 3 or 4<br>(NICET-CT)  | Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.                                                                                                             |
| 8. Sampling and Testing of Concrete | Y            | 3 or 4<br>(NICET-CT)  | Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064).                                                                                                                                         |
| 9. Curing and Protection            | Y            | 3 or 4<br>(NICET-CT)  | Inspect curing, cold weather protection and hot weather protection procedures.                                                                                                                                                                                                |
| 10. Other:                          |              |                       |                                                                                                                                                                                                                                                                               |

## Structural Steel

| Item                                                                                                     | Req'd<br>Y/N | Agency #<br>( )              | Scope                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------|--------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Fabricator Certification/<br>Quality Control Procedures<br><input type="checkbox"/> Fabricator Exempt |              | 1<br>(P.E.)                  | Review shop fabrication and quality control procedures.                                                                                                                                                |
| 2. Material Certification                                                                                | Y            | 1<br>(P.E.)                  | Review certified mill test reports and identification markings on wide-flange shapes, high-strength bolts, nuts and welding electrodes                                                                 |
| 3. Open Web Steel Joists                                                                                 | Y            | 1<br>(P.E.)                  | Inspect installation, and bridging of joists.                                                                                                                                                          |
| 4. Bolting                                                                                               | Y            | 3 or 4<br>(AWS/AISC-<br>SSI) | Inspect installation and tightening of high-strength bolts. Verify that splines have separated from tension control bolts. Verify proper tightening sequence.                                          |
| 5. Welding                                                                                               | Y            | 3 or 4<br>AWS-CWI            | Visually inspect all field welds. Inspect pre-heat, post-heat and surface preparation between passes. Verify size and length of fillet welds.<br><br>Ultrasonic testing of all full-penetration welds. |
| 6. Shear Connectors                                                                                      | N            |                              |                                                                                                                                                                                                        |
| 7. Structural Details                                                                                    | Y            | 1<br>(P.E.)                  | Inspect steel frame for compliance with structural drawings, including bracing, member configuration and connection details.                                                                           |
| 8. Metal Deck                                                                                            | N            | 3 or 4<br>AWS-CWI            | Inspect welding and side-lap fastening of metal roof deck.                                                                                                                                             |
| 9. Other:                                                                                                | N            |                              |                                                                                                                                                                                                        |