

Statement of Special Inspections

Project: ME5040 – Munjoy Hill (LTE 6C/FN/2RRH)
 Location: 211 Cumberland Avenue Portland, ME 04101
 Owner: AT&T/New Cingular Wireless
 Design Professional in
 Responsible Charge: Derek J. Creaser, P.E., Hudson Design Group, LLC

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* encompasses the following disciplines:

- Structural Mechanical/Electrical/Plumbing
 Architectural Other: Entire Project

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.

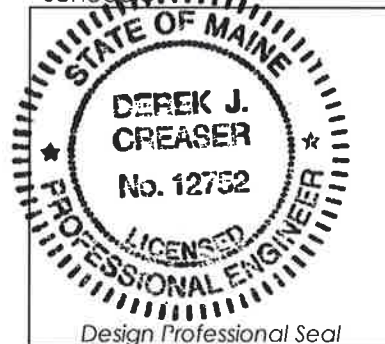
Interim Report Frequency: Upon Completion of Project
 Prepared by:

or per attached schedule

Derek J. Creaser, P.E.
 (type or print name)


 Signature

3/2/2018
 Date



Project Owner's Authorization:

Building Official's Acceptance:

Signature _____ Date _____

Signature _____ Date _____

Referenced Standards

- (IBC) 2009
- (TIA-222-G) Structural Standard for Steel Antenna Towers and Antenna Supporting Structures, Revision G
- (AISC) American Institute for Steel Construction, 14th Edition
- (ASTM) American Society for Testing and Materials
- (ACI-318) Building Code Requirements for Structural Concrete
- (ACI-347) Guide to Formwork Concrete
- (ACI-301) Placement of Concrete
- (AWS) American Welding Society
- (FCC) Federal Communications Commission Rules and Regulations Form 715

Schedule of Inspection and Testing Agencies

This Statement of Special Inspections includes the following building systems:

- | | |
|--|--|
| <input type="checkbox"/> Soils and Foundations | <input type="checkbox"/> Spray Fire Resistant Material |
| <input 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, e-mail
1. Special Inspection Coordinator	<i>Hudson Design Group, LLC Derek J. Creaser, P.E.</i>	45 Beechwood Drive North Andover, MA 01845 derek.creaser@hudsondesigngrouppllc.com (978)557-5553
2. Inspector	<i>Hudson Design Group, LLC Mark McClusky, PE.</i>	45 Beechwood Drive North Andover, MA 01845 mccclusky@hudsondesigngrouppllc.com (978)557-5553
3. Inspector	<i>Hudson Design Group, LLC Hongyang Han</i>	45 Beechwood Drive North Andover, MA 01845 hhan@hudsondesigngrouppllc.com (978)557-5553
4. Inspector	<i>Hudson Design Group, LLC Kathryn Brady</i>	45 Beechwood Drive North Andover, MA 01845 kbrady@hudsondesigngrouppllc.com (978)557-5553

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 Design Category *B*
Quality Assurance Plan Required (Y/N) *N/A*

Description of seismic force resisting system and designated seismic systems:
Not applicable, does not control

Quality Assurance for Wind Requirements

Basic Wind Speed **Ground** (3 sec. gust) *110 mph*
Wind Exposure Category *C*
Quality Assurance Plan Required (Y/N) *N*

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

Steel Mast Designed in accordance with:

- *TIA 222-G Structural Standards for Steel Antenna Towers: (100 mph 3 second gust)*
- *American Institute for Steel Construction, 13th Edition*

Roof mounted equipment: steel designed in accordance with:

- *IBC 2009: (110 mph 3 second gust)*
- *American Institute for Steel Construction, 14th Edition*

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.
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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	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
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Other

SPECIAL INSPECTION AND TESTING ITEMS REQUIRED BY CHAPTER 17 OF THE 2009 IBC

Indicate items requiring special inspection or structural testing by checking the appropriate box. All items not requiring inspection/testing should be removed from the form. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases "periodic" inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task. The "Detailed Instructions & Frequency" provides a description of the presumed requirements for tasks requiring "periodic" inspections. The design professional in responsible should revise the requirements as needed on a project-specific basis.

FABRICATORS (IBC 1704.2)

<input type="checkbox"/> Approved Fabricator	Yes	No
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<input checked="" type="checkbox"/> Unapproved Fabricator	Yes	No
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Fabricators Name:	TBD		
Fabricators plant location	TBD		
Required In-plant Inspections	<input type="checkbox"/> Steel Construction <input type="checkbox"/> Cold-formed Construction	<input type="checkbox"/> Concrete Construction <input type="checkbox"/> Other: _____	<input type="checkbox"/> Wood Construction <input type="checkbox"/> Other: _____

STEEL CONSTRUCTION (IBC 1704.3, 1707.2 & 1708.3)				
WELDING (1704.3.1)	Frequency		Inspector	Detailed Instructions and Frequencies
Complete & partial penetration groove welds	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	N/A	Pre-welding inspections are to be performed to ensure that proper materials (i.e. structural steel, weld filler material, etc.), welding procedures, and welding personnel qualifications are appropriate. A visual inspection of all welds must be provided with periodic inspections made of work in progress.
Multi-pass fillet welds	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	N/A	
Single-pass fillet welds > 5/16"	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	N/A	
Plug, slot, seam or flange welds	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	N/A	
Single-pass fillet welds ≤ 5/16"	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	N/A	
Floor & roof deck welds	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	N/A	
Shear connector (i.e. stud) welds	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	N/A	
Cold-formed steel welds	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	N/A	
Welds of stairs & railing systems	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	N/A	
DETAILS OF STEEL FRAME (1704.3.2)				
Member locations, bracing, gusset plates, stiffeners and other connection components	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	2, 3, 4	All steel frames shall be inspected to verify compliance with the approved const. documents, such as bracing, stiffening, member size and loc, and proper appl. of joint details at ea. connection.

HIGH-STRENGTH BOLTING (1704.3.3)			Inspector	Detailed Instructions and Frequencies
Pretensioned & slip-critical joints	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic <input type="checkbox"/> #1 <input type="checkbox"/> #2 <input type="checkbox"/> #3	N/A	For periodic inspections one of the following methods must be used: (1) turn-of-nut method w/ match-marking, (2) direct tension indicator method or (3) the alternate design fastener (i.e. twist-off bolt) method (see Section 9.2 of 2009 RCSC Specification).
Snug-tightened joints	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	N/A	Verify that all joints use proper fastener components, connected elements are fabricated properly, the bolted joint is drawn into firm contact, and that the nuts cannot be removed without the use of a wrench (see Section 9.1 of 2009 RCSC Specification).
STRUCTURAL STEEL (IBC 1707.2 & 1708.3)				
Visual inspection prior to welding	<input checked="" type="checkbox"/> Continuous		N/A	
Visual inspection during welding	<input checked="" type="checkbox"/> Continuous		N/A	
Visual inspection after welding		<input checked="" type="checkbox"/> Periodic	N/A	Verify that welds are clean; welder identification is legible; size, length and location of welds; verify that welds meet acceptance criteria; placement of reinforcement fillets; removal of backing bars and weld tabs as required; and repair activities (see Section Q5.1 of AISC 341-05).
Nondestructive testing	<input checked="" type="checkbox"/> Continuous		N/A	
Inspection prior to bolting	<input checked="" type="checkbox"/> Continuous		N/A	
Inspection during bolting	<input checked="" type="checkbox"/> Continuous		N/A	
Inspection after bolting		<input checked="" type="checkbox"/> Periodic	N/A	Document accepted and rejected connections (see Section Q5.3 of AISC 341-05).
Reduced beam sections (RBS)		<input checked="" type="checkbox"/> Periodic	N/A	Verify contour and finish as well as dimensional tolerances (see Section Q5.4 of AISC 341-05).
Protected zones		<input checked="" type="checkbox"/> Periodic	N/A	Verify that no holes or unapproved attachments are made within the protected zone (see Section Q5.4 of AISC 341-05).